



**Analytical Resources, LLC**  
Analytical Chemists and Consultants

10 March 2023

Ali Judkins  
Anchor QEA, LLC  
1201 3rd Ave, Suite 2600  
Seattle, WA 98101

RE: AOC4 UR Phase 3

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)  
22L0246

Associated SDG ID(s)  
N/A

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Susan Dunninghoo, Director, Client Services

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



202L0246

1 of 4

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3263

Project/Client Name: AOC4 W2 Phase 3  
 Project Number: 180067-02.04  
 Contact Name: Amara Vanderhoff  
 Sampled By: WJ Adward

Ship to: ARI  
 Attn: Sue Durnihoo  
 Shipper: Courier  
 Form filled out by: AV/BQ  
 Shipping Date: 12/9/2022  
 Airbill Number: ---  
 Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
					AROHNE	PC/total Solids	PCBs	BBP	D/F	
12/9/22	0756	LDW22-SC77BB	3	Sediment	X	X	X			
		LDW22-SC77BC	3		X	X	X			
		LDW22-SC77BC-FD	3		X	X	X			
		LDW22-SC77BD	3		X	X	X			
		LDW22-SC77BE	3		X	X	X			
	0756	LDW22-SC77BF	3		X	X	X			
	0840	LDW22-1TB10A	4		X	X	X		X	
		LDW22-1TB10B	4		X	X	X	X	X	
		LDW22-1TB10C	4		X	X	X	X	X	
		LDW22-1TB10B-FD	4		X	X	X	X	X	
		LDW22-1TB10D	4	X	X	X	X	X		
12/9/22	0840	LDW22-1TB10E	4	Sediment	X	X	X	X	X	
<b>Total Number of Containers</b>			<b>42</b>	<b>Purchase Order / Statement of Work #</b> <u>APJ-110222-AOC4-ARL</u>						

1) Released by: Print name: <u>Amara Vanderhoff</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>12/9/2022 16:15</u>	1) Rec'd by: <u>YARED</u> Company: <u>YH VA SAFETY</u> Date/Time: <u>12/09/22 4:15 PM</u>	2) Released by: Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YH VA SAFETY</u> Date/Time: <u>12/09/22 16:40</u>	2) Rec'd by: <u>Jacob [Signature]</u> Company: <u>ARI, LLC</u> Date/Time: <u>12/09/22 16:40</u>
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\* Distribution: White copies accompany shipment; yellow retained by consignor.



200 1st Ave W, Suite 500  
 Seattle, WA 98119  
 206.378.1364

### To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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22L0246

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3266

Project/Client Name: ADCY UR Phase 3  
 Project Number: 180067-02.04  
 Contact Name: Amara Vandervoort  
 Sampled By: Windward

Ship to: ARL  
 Attn: Sue Durnin  
 Shipper: Courier  
 Form filled out by: AV/BQ  
 Shipping Date: 12/9/2022  
 Airbill Number: —  
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
					Archive	Toc/TOC Solids	PCBs	BAP	D/F	
12/9/22	0840	LDW22-17B10F	4	Sediment	X	X	X	X	X	
	0840	LDW22-17B10G	4		X	X	X	X	X	
	0809	LDW22-SC779A	3		X	X	X			
		LDW22-SC779B	3		X	X	X			
		LDW22-SC779C	3		X	X	X			
		LDW22-SC779D	3		X	X	X			
		LDW22-SC779D-PD	3		X	X	X			
		LDW22-SC779E	3		X	X	X			
		LDW22-SC779F	3		X	X	X			
		LDW22-SC779G	3		X	X	X			
		LDW22-SC779H	3		X	X	X			
12/9/22	0809	LDW22-SC779I	3	Sediment	X	X	X			
<b>Total Number of Containers</b>			<b>30</b>	<b>Purchase Order / Statement of Work #</b> <u>APTJ-110222-ADCY-ARL</u>						

1) Released by: Print name: <u>Amara Vandervoort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>12/9/2022 16:15</u>	1) Rec'd by: <u>YARED</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/09/22 4:15</u>	2) Released by: Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/09/22 16:40</u>	2) Rec'd by: <u>Jacob Walter</u> Company: <u>AR, LLC</u> Date/Time: <u>12/09/22 16:40</u>
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**To be completed by Laboratory upon sample receipt:**

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

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22L0246

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3264

Project/Client Name: AOC4 UR Phase 3  
 Project Number: 180067 - 02.04  
 Contact Name: Amara Vandervort  
 Sampled By: windward

Ship to: ARI  
 Attn: Sue Dunning  
 Shipper: Courier  
 Shipping Date: 12/19/2022  
 Airbill Number: —  
 Form filled out by: AV/BQ  
 Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
					Asphal	Toe/Tail Solids	PCBs	BBP	D/F	
12/9/22	0809	LDW22-SC779J	3	Sediment	X	X	X	—	—	
	0852	LDW22-SC777A	3	↓	X	X	X	—	—	
		LDW22-SC777B	3		Y	X	X	—	—	
		LDW22-SC777C	3		X	X	X	—	—	
		LDW22-SC777D	3		X	X	X	—	—	
		LDW22-SC777E	3		X	X	X	—	—	
		LDW22-SC777F	3		X	X	Y	—	—	
		LDW22-SC777G	3		X	X	X	—	—	
		LDW22-SC777H	3		Y	X	X	—	—	
	0852	LDW22-SC777I	3		X	X	X	—	—	
	0958	LDW22-SC759C	3		X	X	X	—	—	
12/9/22	0958	LDW22-SC759D	3	Sediment	X	X	X	—	—	
Total Number of Containers			36	Purchase Order / Statement of Work # <u>APT-110222-AOC4-ARL</u>						

1) Released by: Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>windward</u> Date/Time: <u>12/19/2022 16:15</u>	1) Rec'd by: <u>VARIED</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/19/22 4:15</u>	2) Released by: Print name: <u>VARIED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/19/22 16:40</u>	2) Rec'd by: <u>Jacob Lytle</u> Company: <u>AR, LLC</u> Date/Time: <u>12/19/22 16:40</u>
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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

4 of 4

22L0246

# CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3292

Project/Client Name: Accy up Phase 3  
 Project Number: 180067-02.04  
 Contact Name: Amara Vandervoort  
 Sampled By: windward

Ship to: ARL  
 Attn: Sue Durnihoo  
 Shipping Date: 12/9/2022  
 Shipper: Courier  
 Airbill Number: -  
 Form filled out by: AV/BJR  
 Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
					Asphite	Total Solids	PCBS	D/F	BBP	
12/9/22	0958	LDW22-SC759E	3	Sediment	X	X	X			
		LDW22-SC759F	3		X	X	X			
		LDW22-SC759G	3		X	X	X			
		LDW22-SC759H	3		X	X	X			
	0958	LDW22-SC759B	3		X	X	X			
	1144	LDW22-1TB09A	4		X	X	X	X	1	
		LDW22-1TB09B	4		X	X	X	X	X	
		LDW22-1TB09C	4		X	X	X	X	X	
		LDW22-1TB09D	4		X	X	X	X	X	
		LDW22-1TB09E	4		X	X	X	X	X	
		LDW22-1TB09F	4	X	X	X	X	X		
12/9/22	1144	LDW22-1TB09G	4	Sediment	X	X	X	X	X	
<b>Total Number of Containers</b>			<b>43</b>	<b>Purchase Order / Statement of Work #</b> <u>ARJ-110222-ACCY-ARL</u>						

1) Released by: <u>Amara Vandervoort</u> Signature: <u>[Signature]</u> Company: <u>windward</u> Date/Time: <u>12/9/2022 16:15</u>	1) Rec'd by: <u>YARE</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/9/22 4:15</u>	2) Released by: <u>YARE</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/9/22 16:40</u>	2) Rec'd by: <u>Jacob Weirte</u> Signature: <u>[Signature]</u> Company: <u>AR, LLC</u> Date/Time: <u>12/9/22 16:40</u>
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200 1st Ave W, Suite 500  
 Seattle, WA 98119  
 206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



# Cooler Receipt Form

ARI Client: W. Howard  
 COC No(s): 3263, 3266, 3264, 3292 NA JSW  
 Assigned ARI Job No: 226246

Project Name: AOC4 UR Phase 3  
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: \_\_\_\_\_  
 Tracking No: \_\_\_\_\_ NA

**Preliminary Examination Phase:**

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO  
 Were custody papers included with the cooler? ..... YES NO  
 Were custody papers properly filled out (ink, signed, etc.) ..... YES NO  
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1640 0.4 0.5 3.4 5.1  
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: J009708

Cooler Accepted by: JSW Date: 12/10/20 Time: 1640

**Complete custody forms and attach all shipping documents**

**Log-In Phase:**

Was a temperature blank included in the cooler? ..... YES NO  
 What kind of packing material was used? ... Bubble Wrap Wet Ice Get Packs Baggies Foam Block Paper Other: \_\_\_\_\_  
 Was sufficient ice used (if appropriate)? ..... NA YES NO  
 How were bottles sealed in plastic bags? ..... Individually Grouped Not  
 Did all bottles arrive in good condition (unbroken)? ..... YES NO  
 Were all bottle labels complete and legible? ..... YES NO  
 Did the number of containers listed on COC match with the number of containers received? ..... YES NO  
 Did all bottle labels and tags agree with custody papers? ..... YES NO  
 Were all bottles used correct for the requested analyses? ..... YES NO  
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO  
 Were all VOC vials free of air bubbles? ..... NA YES NO  
 Was sufficient amount of sample sent in each bottle? ..... YES NO  
 Date VOC Trip Blank was made at ARI ..... NA  
 Were the sample(s) split by ARI? NA YES Date/Time: \_\_\_\_\_ Equipment: \_\_\_\_\_ Split by: \_\_\_\_\_

Samples Logged by: JSW Date: 12/10/20 Time: 0951 Labels checked by: JSW

**\*\* Notify Project Manager of discrepancies or concerns \*\***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

**Additional Notes, Discrepancies, & Resolutions:**

By: \_\_\_\_\_ Date: \_\_\_\_\_



Anchor QEA, LLC

1201 3rd Ave, Suite 2600

Seattle, WA 98101

Project: AOC4 UR Phase 3

Project Number: 180067-02.04

Project Manager: Ali Judkins

**Reported:**

03/10/2023 07:15

**ANALYTICAL REPORT FOR SAMPLES**

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0246-01	LDW22-SC778B	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-02	LDW22-SC778C	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-03	LDW22-SC778C-FD	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-04	LDW22-SC778D	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-05	LDW22-SC778E	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-06	LDW22-SC778F	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-07	LDW22-IT810A	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-08	LDW22-IT810B	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-09	LDW22-IT810C	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-10	LDW22-IT810B-FD	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-11	LDW22-IT810D	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-12	LDW22-IT810E	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-13	LDW22-IT810F	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-14	LDW22-IT810G	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-15	LDW22-SC779A	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-16	LDW22-SC779B	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-17	LDW22-SC779C	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-18	LDW22-SC779D	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-19	LDW22-SC779D-FD	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-20	LDW22-SC779E	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-21	LDW22-SC779F	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-22	LDW22-SC779G	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-23	LDW22-SC779H	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-24	LDW22-SC779I	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-25	LDW22-SC779J	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-26	LDW22-SC777A	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-27	LDW22-SC777B	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-28	LDW22-SC777C	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-29	LDW22-SC777D	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-30	LDW22-SC777E	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-31	LDW22-SC777F	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-32	LDW22-SC777G	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-33	LDW22-SC777H	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-34	LDW22-SC777I	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-35	LDW22-SC759C	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-36	LDW22-SC759D	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-37	LDW22-SC759E	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-38	LDW22-SC759F	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-39	LDW22-SC759G	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-40	LDW22-SC759H	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-41	LDW22-SC759B	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-42	LDW22-IT809A	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-43	LDW22-IT809B	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-44	LDW22-IT809C	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-45	LDW22-IT809D	Solid	12/09/22 11:44	12/09/22 16:40



Anchor QEA, LLC

1201 3rd Ave, Suite 2600

Seattle, WA 98101

Project: AOC4 UR Phase 3

Project Number: 180067-02.04

Project Manager: Ali Judkins

**Reported:**

03/10/2023 07:15

**ANALYTICAL REPORT FOR SAMPLES**

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0246-46	LDW22-IT809E	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-47	LDW22-IT809F	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-48	LDW22-IT809G	Solid	12/09/22 11:44	12/09/22 16:40





Anchor QEA, LLC  
1201 3rd Ave, Suite 2600  
Seattle WA, 98101

Project: AOC4 UR Phase 3  
Project Number: 180067-02.04  
Project Manager: Ali Judkins

Reported:  
10-Mar-2023 07:15

## Case Narrative

**Client:** Anchor QEA, LLC  
**Project:** AOC4 UR Phase 3  
**Work Order:** 22L0246

### Sample receipt

Samples as listed on the preceding page were received 09-Dec-2022 16:40 under ARI work order 22L0246. For details regarding sample receipt, please refer to the Cooler Receipt Form.

*This report includes only the dioxin/furans.*

### Dioxin/Furans - EPA Method 1613

The sample(s) were extracted and analyzed within the recommended holding times. Analysis was performed using an application specific column developed by Restek. The RTX-Dioxin2 column has unique isomer separation for the 2378-TCDF, eliminating the need for confirmation analysis.

Extracts were initially run on December 28, 2022. Due to a failing res check, the second half of the samples were rerun on February 2, 2023.

On March 6, the laboratory was alerted to outliers within two samples in the second sequence, where it was determined the analyst had missed the requirement for another reanalysis. Extracts were reanalyzed on March 8, with still low surrogate recoveries for LDW22-IT809C.

Initial and continuing calibrations were within method requirements.

Labeled internal standard areas were within limits, with the exception of LDW22-IT809C as noted above..

The cleanup surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits, with response or EMPC response for several compounds above the EDL. Associated results have been "B"-flagged.

The OPR (Ongoing Precision and Recovery) standard percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were high of advisory control limits for several compounds, flagged on the summary sheet and an indication of sample homogeneity.

*Revised 03/10/2023 to discuss outliers and reanalyses.*



## QUALIFIERS AND NOTES

<u>Qualifier</u>	<u>Definition</u>
X	Indicates possible CDPE interference.
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
J	Estimated concentration value detected below the reporting limit.
EMPC	Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin
B	This analyte was detected in the method blank.
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-07 A File ID: 22122819  
 Sampled: 12/09/22 08:40 Prepared: 12/19/22 15:18 Analyzed: 12/29/22 01:42  
 % Solids: 63.16 Preparation: EPA 1613 Initial/Final: 15.83 g Wet / 20 uL  
 Result Basis: Dry Sequence: SKL0339 Calibration: FC00062  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.689	0.655-0.886	0.142	1.00	6.35	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.618	0.655-0.886	0.105	1.00	0.627	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.515	1.318-1.783	0.194	1.00	2.01	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.561	1.318-1.783	0.187	1.00	3.71	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.463	1.318-1.783	0.271	1.00	3.76	ng/kg	
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.207	1.054-1.426	0.139	1.00	21.5	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.179	1.054-1.426	0.146	1.00	6.92	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.230	1.054-1.426	0.142	1.00	8.82	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.178	1.054-1.426	0.172	1.00	3.70	ng/kg	
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.189	1.054-1.426	0.404	1.00	4.26	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.206	1.054-1.426	0.400	1.00	16.2	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.185	1.054-1.426	0.433	1.00	9.21	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.961	0.893-1.208	0.234	1.00	107	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.963	0.893-1.208	0.332	1.00	12.7	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.049	0.893-1.208	0.585	2.50	353	ng/kg	B
39001-02-0	OCDF	1	0.907	0.757-1.024	0.462	2.50	250	ng/kg	B
3268-87-9	OCDD	1	0.857	0.757-1.024	0.627	10.0	2720	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	56.8	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	12.6	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	86.3	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	22.6	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	184	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	127	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	387	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	677	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 18.87  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 18.87



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-07</u>
Sampled:	<u>12/09/22 08:40</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>63.16</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SKL0339</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>22122819</u>
		Analyzed:	<u>12/29/22 01:42</u>
		Initial/Final:	<u>15.83 g / 20 uL</u>
		Calibration:	<u>FC00062</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.763	0.655-0.886	0.132	74.7	24 - 169 %	
13C12-2,3,7,8-TCDD		0.750	0.655-0.886	0.142	91.6	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.570	1.318-1.783	0.192	76.3	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.555	1.318-1.783	0.203	76.7	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.670	1.318-1.783	0.150	81.6	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.498	0.434-0.587	0.171	84.1	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.515	0.434-0.587	0.161	81.7	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.500	0.434-0.587	0.183	85.4	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.526	0.434-0.587	0.214	93.4	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.274	1.054-1.426	0.151	83.3	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.286	1.054-1.426	0.138	79.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.462	0.374-0.506	0.198	75.2	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.450	0.374-0.506	0.257	80.0	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.045	0.893-1.208	0.301	96.1	23 - 140 %	
13C12-OCDD		0.917	0.757-1.024	0.319	96.7	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.053	99.4	35 - 197 %	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:54:50 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
 Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.048	1.001	1.116e4	1.619e4	0.985	0.689	0.770	1679	1431	1.71e5	2.52e5	102.0	176.1	NO	dd	dd	3.175
12378-PeCDF	30.215	1.001	4.030e3	2.660e3	0.906	1.515	1.550	1222	2180	6.71e4	3.55e4	54.9	16.3	NO	bd	bd	1.004
23478-PeCDF	31.552	1.000	7.980e3	5.111e3	1.008	1.561	1.550	1222	2180	1.10e5	7.70e4	89.6	35.3	NO	db	db	1.855
123478-HxCDF	35.162	1.000	3.514e4	2.911e4	1.045	1.207	1.240	1180	1091	5.47e5	4.52e5	463.7	414.3	NO	dd	dd	10.743
234678-HxCDF	36.132	0.999	1.453e4	1.181e4	1.101	1.230	1.240	1180	1091	1.66e5	1.27e5	140.7	116.8	NO	bd	bb	4.409
123678-HxCDF	35.307	1.001	1.130e4	9.589e3	1.019	1.179	1.240	1180	1091	1.80e5	1.43e5	152.6	131.2	NO	db	dd	3.458
123789-HxCDF	37.167	1.000	5.060e3	4.296e3	0.992	1.178	1.240	1180	1091	7.54e4	6.66e4	63.9	61.0	NO	bb	bb	1.850
1234678-HpCDF	39.028	1.000	1.410e5	1.467e5	1.243	0.961	1.050	1547	1867	2.25e6	2.33e6	1455.4	1247.4	NO	bb	bd	53.528
1234789-HpCDF	41.301	1.000	1.316e4	1.367e4	1.192	0.963	1.050	1547	1867	1.90e5	1.90e5	122.6	101.8	NO	bb	bb	6.336
OCDF	45.622	1.006	2.367e5	2.611e5	1.303	0.907	0.890	1609	2185	2.67e6	2.99e6	1658.2	1370.7	NO	bd	bd	125.031
2378-TCDD	26.683	1.001	9.264e2	1.500e3	1.168	0.618	0.770	1032	1034	1.43e4	2.37e4	13.9	23.0	YES	bd	bd	0.314
12378-PeCDD	31.809	1.001	5.445e3	3.722e3	1.152	1.463	1.550	1247	2181	7.54e4	4.29e4	60.5	19.6	NO	bb	bb	1.880
123478-HxCDD	36.276	1.000	5.450e3	4.584e3	0.934	1.189	1.240	2127	3123	9.68e4	7.87e4	45.5	25.2	NO	bd	bd	2.129
123678-HxCDD	36.399	1.001	2.220e4	1.840e4	0.950	1.206	1.240	2127	3123	3.63e5	2.97e5	170.9	95.1	NO	db	dd	8.122
123789-HxCDD	36.778	1.011	1.124e4	9.483e3	0.873	1.185	1.240	2127	3123	1.85e5	1.64e5	87.0	52.6	NO	bb	bb	4.606
1234678-HpCDD	40.543	1.000	3.982e5	3.797e5	1.268	1.049	1.050	3416	3012	5.91e6	5.69e6	1730.4	1890.2	NO	bb	bb	176.580
OCDD	45.375	1.000	2.093e6	2.442e6	1.089	0.857	0.890	2674	1633	2.59e7	3.02e7	9681.1	18471.1	NO	bb	bb	1362.077
13C-2378-TCDF	26.018	1.006	3.785e5	4.962e5	1.751	0.763	0.770	1805	2139	5.76e6	7.63e6	3193.1	3568.1	NO	bb	bb	74.712
13C-12378-PeCDF	30.193	1.168	4.494e5	2.863e5	1.442	1.570	1.550	2056	2677	7.09e6	4.50e6	3447.5	1681.4	NO	bb	bb	76.333
13C-23478-PeCDF	31.541	1.220	4.264e5	2.741e5	1.366	1.555	1.550	2056	2677	6.60e6	4.20e6	3209.3	1570.6	NO	bb	bb	76.729
13C-123478-HxCDF	35.151	0.956	1.902e5	3.818e5	1.095	0.498	0.510	1610	1504	3.11e6	6.12e6	1932.6	4066.0	NO	bd	bd	84.091
13C-123678-HxCDF	35.285	0.960	2.014e5	3.912e5	1.168	0.515	0.510	1610	1504	3.12e6	6.11e6	1938.9	4063.2	NO	db	db	81.665
13C-234678-HxCDF	36.154	0.983	1.808e5	3.618e5	1.023	0.500	0.510	1610	1504	2.91e6	5.70e6	1808.8	3789.8	NO	bb	bb	85.368
13C-123789-HxCDF	37.167	1.011	1.757e5	3.341e5	0.879	0.526	0.510	1610	1504	2.74e6	5.35e6	1704.2	3558.6	NO	bd	bb	93.357
13C-1234678-HpCDF	39.017	1.061	1.366e5	2.958e5	0.925	0.462	0.440	1350	1694	2.22e6	4.90e6	1647.3	2895.9	NO	bb	bb	75.189
13C-1234789-HpCDF	41.290	1.123	1.103e5	2.450e5	0.715	0.450	0.440	1350	1694	1.61e6	3.56e6	1190.1	2103.8	NO	bb	bb	79.966
13C-1234-TCDD	25.851	0.000	2.911e5	3.773e5	1.000	0.772	0.770	1681	943	4.47e6	5.75e6	2659.6	6097.0	NO	bb	bb	100.000
13C-2378-TCDD	26.668	1.032	2.839e5	3.785e5	1.081	0.750	0.770	1681	943	4.33e6	5.72e6	2574.9	6063.6	NO	bb	bb	91.647
13C-12378-PeCDD	31.787	1.230	2.648e5	1.586e5	0.776	1.670	1.550	1087	904	4.12e6	2.45e6	3790.6	2709.4	NO	bb	bb	81.582
13C-123478-HxCDD	36.265	0.986	2.826e5	2.219e5	0.975	1.274	1.240	1259	1183	4.68e6	3.71e6	3719.2	3133.7	NO	bd	bd	83.285
13C-123678-HxCDD	36.376	0.989	2.959e5	2.301e5	1.067	1.286	1.240	1259	1183	4.67e6	3.75e6	3707.2	3167.7	NO	db	db	79.379
13C-1234678-HpCDD	40.532	1.102	1.775e5	1.699e5	0.582	1.045	1.050	1486	1421	2.66e6	2.57e6	1789.0	1804.8	NO	bb	bb	96.132
13C-OCDD	45.356	1.234	2.924e5	3.189e5	0.509	0.917	0.890	1432	1257	3.62e6	3.97e6	2529.1	3154.9	NO	bb	bb	193.431
13C-123789-HxCDD	36.766	0.000	3.470e5	2.744e5	1.000	1.265	1.240	1259	1183	5.56e6	4.45e6	4417.3	3761.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.683	1.032	2.977e5		1.120			1012		4.50e6		4449.4			bb		39.755

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:54:50 Pacific Standard Time

ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.510	0.865	3.687e3	4.974e3	1.300	0.741	0.770	1679	1431	4.19e4	5.66e4	24.9	39.5	NO	dd	bb	0.762
1289-TCDF	27.499	1.057	9.509e2	1.048e3	0.931	0.907	0.770	1679	1431	6.48e3	8.17e3	3.9	5.7	YES	MM	MM	0.245
13468-PECDF					1.308		1.550	867	908								
12389-PECDF					0.860		1.550	1222	2180								
123468-HXCDF	33.513	0.953	2.060e4	1.676e4	1.156	1.229	1.240	1180	1091	3.28e5	2.81e5	278.3	257.8	NO	bb	bb	5.647
1368-TCDD	23.795	0.892	6.325e3	8.367e3	1.151	0.756	0.770	1032	1034	9.80e4	1.31e5	95.0	126.8	NO	bb	bb	1.927
1289-TCDD	27.303	1.024	2.599e2	3.449e2	0.950	0.753	0.770	1032	1034	3.95e3	6.31e3	3.8	6.1	NO	bb	db	0.096
12479-PECDD	29.068	0.914	6.322e3	1.249e4	2.164	0.506	1.550	1247	2181	1.62e5	1.23e5	129.6	56.5	YES	bd	MM	2.053
12389-PECDD	32.210	1.013	1.187e3	6.971e2	1.371	1.702	1.550	1247	2181	1.53e4	1.28e4	12.3	5.9	NO	bd	bb	0.325
124679-HXCDD	34.282	0.945	6.209e4	5.221e4	1.153	1.189	1.240	2127	3123	9.72e5	8.29e5	457.2	265.5	NO	bb	bb	19.655
1234679-HPCDD	39.485	0.974	4.213e5	4.083e5	1.473	1.032	1.050	3416	3012	6.51e6	6.33e6	1904.8	2101.9	NO	bb	bb	162.055
Total-tetrafurans			1.105e5		1.072			1679		1.63e6							28.393
Total-penta1			7.090e4					867		1.05e6							17.515
Total-pentafurans			1.047e5		0.924			1222		1.40e6							25.612
Total-hexafurans			3.008e5		1.063			1180		4.67e6							92.201
Total-heptafurans			4.717e5		1.218			1547		7.33e6							193.607
Total-Furans			1.298e6		1.090			1679		1.88e7							483.066
Total-tetradoxins			2.042e4		1.090			1032		2.92e5							6.314
Total-pentadoxins			4.328e4		1.562			1247		5.41e5							11.307
Total-hexadoxins			1.827e5		0.978			2127		2.61e6							63.706
Total-heptadoxins			8.196e5		1.371			3416		1.24e7							338.634
Total-Dioxins			3.159e6		1.207			1032		4.17e7							1782.039
Total-TEQ			4.457e6					1032		6.06e7							2265.105
FUNCTION1 PFK			7.318e6					276833		4.53e7							
FUNCTION2 PFK			6.620e5					209160		2.71e6							0.000
FUNCTION3 PFK			8.001e5					169970		1.14e7							0.000
FUNCTION4 PFK			0.000e0					149848		0.00e0							
FUNCTION5 PFK			1.463e4					101399		7.06e5							
FUNCTION1 HXCD...			3.448e4					543		5.47e5							0.000
FUNCTION1 HPCD...			4.684e3					613		6.93e4							0.000
FUNCTION2 HPCD...			6.306e3					662		1.06e5							0.000
FUNCTION3 OCDPE			3.024e2					561		7.01e3							0.000
FUNCTION4 NCDPE			3.741e3					759		6.67e4							0.000
FUNCTION5 DCDPE			1.727e2					510		4.98e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:54:50 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30

Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.70	4.933e3	7.051e3	1.072	0.70	0.77	36.5	YES	NO	dd	dd	1.278
2	Total-tetrafurans	24.54	4.100e2	4.915e2	1.072	0.83	0.77	3.6	YES	NO	bd	bd	0.096
3	Total-tetrafurans	24.28	3.674e3	5.584e3	1.072	0.66	0.77	36.1	YES	NO	db	dd	0.987
4	Total-tetrafurans	24.14	2.856e3	4.049e3	1.072	0.71	0.77	29.2	YES	NO	dd	dd	0.736
5	Total-tetrafurans	24.04	1.318e4	1.803e4	1.072	0.73	0.77	122.1	YES	NO	dd	dd	3.328
6	Total-tetrafurans	23.87	2.220e3	3.273e3	1.072	0.68	0.77	22.4	YES	NO	dd	dd	0.586
7	Total-tetrafurans	23.78	6.298e3	9.358e3	1.072	0.67	0.77	55.9	YES	NO	dd	dd	1.670
8	Total-tetrafurans	23.49	2.124e3	2.897e3	1.072	0.73	0.77	21.3	YES	NO	dd	dd	0.535
9	Total-tetrafurans	23.36	1.009e4	1.433e4	1.072	0.70	0.77	84.7	YES	NO	bd	bd	2.604
10	Total-tetrafurans	22.78	3.984e3	5.132e3	1.072	0.78	0.77	36.5	YES	NO	db	bb	0.972
11	1368-TCDF	22.51	3.687e3	4.974e3	1.300	0.74	0.77	24.9	YES	NO	dd	bb	0.762
12	Total-tetrafurans	27.08	3.739e3	5.070e3	1.072	0.74	0.77	36.3	YES	NO	bb	db	0.939
13	Total-tetrafurans	26.43	1.043e4	1.542e4	1.072	0.68	0.77	100.1	YES	NO	db	dd	2.757
14	Total-tetrafurans	26.27	5.932e3	8.593e3	1.072	0.69	0.77	49.0	YES	NO	dd	dd	1.549
15	Total-tetrafurans	26.18	2.604e3	3.653e3	1.072	0.71	0.77	24.9	YES	NO	dd	dd	0.667
16	2378-TCDF	26.05	1.116e4	1.619e4	0.985	0.69	0.77	102.0	YES	NO	dd	dd	3.175
17	Total-tetrafurans	25.81	2.447e3	2.879e3	1.072	0.85	0.77	23.4	YES	NO	dd	dd	0.568
18	Total-tetrafurans	25.40	7.205e3	9.617e3	1.072	0.75	0.77	49.2	YES	NO	bd	dd	1.794
19	Total-tetrafurans	25.13	4.454e3	6.211e3	1.072	0.72	0.77	37.7	YES	NO	db	dd	1.137
20	Total-tetrafurans	24.94	9.025e3	1.208e4	1.072	0.75	0.77	77.2	YES	NO	dd	dd	2.251

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.47	7.090e4	4.725e4		1.50	1.55	1213.9	YES	NO	bb	bb	17.515

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:54:50 Pacific Standard Time

ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.57	6.424e2	4.287e2	0.924	1.50	1.55	11.1	YES	NO	dd	dd	0.161
2	Total-pentafurans	29.26	8.594e3	5.195e3	0.924	1.65	1.55	109.6	YES	NO	dd	dd	2.077
3	Total-pentafurans	29.13	4.228e4	2.630e4	0.924	1.61	1.55	399.9	YES	NO	dd	MM	10.331
4	Total-pentafurans	28.95	7.622e3	4.885e3	0.924	1.56	1.55	81.1	YES	NO	dd	dd	1.884
5	Total-pentafurans	32.51	4.778e3	2.985e3	0.924	1.60	1.55	59.7	YES	NO	bb	bb	1.169
6	23478-PeCDF	31.55	7.980e3	5.111e3	1.008	1.56	1.55	89.6	YES	NO	db	db	1.855
7	Total-pentafurans	31.41	8.768e3	6.066e3	0.924	1.45	1.55	107.8	YES	NO	dd	dd	2.234
8	Total-pentafurans	31.31	3.728e3	2.251e3	0.924	1.66	1.55	42.9	YES	NO	bd	bd	0.901
9	Total-pentafurans	30.52	1.926e3	1.216e3	0.924	1.58	1.55	24.1	YES	NO	dd	dd	0.473
10	Total-pentafurans	30.42	6.271e3	4.332e3	0.924	1.45	1.55	78.8	YES	NO	dd	dd	1.597
11	12378-PeCDF	30.22	4.030e3	2.660e3	0.906	1.52	1.55	54.9	YES	NO	bd	bd	1.004
12	Total-pentafurans	29.85	8.033e3	4.741e3	0.924	1.69	1.55	87.4	YES	NO	dd	dd	1.924

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	35.02	4.920e3	4.349e3	1.063	1.13	1.24	65.9	YES	NO	bd	bd	1.573
2	Total-hexafurans	34.55	1.274e5	1.037e5	1.063	1.23	1.24	1727.6	YES	NO	bb	bb	39.228
3	Total-hexafurans	34.25	3.005e3	2.422e3	1.063	1.24	1.24	44.3	YES	NO	bb	bb	0.921
4	Total-hexafurans	33.72	7.785e4	6.390e4	1.063	1.22	1.24	1004.1	YES	NO	bb	bb	24.062
5	123468-HxCDF	33.51	2.060e4	1.676e4	1.156	1.23	1.24	278.3	YES	NO	bb	bb	5.647
6	123789-HxCDF	37.17	5.060e3	4.296e3	0.992	1.18	1.24	63.9	YES	NO	bb	bb	1.850
7	Total-hexafurans	36.63	1.057e3	7.671e2	1.063	1.38	1.24	17.1	YES	NO	bb	bb	0.310
8	234678-HxCDF	36.13	1.453e4	1.181e4	1.101	1.23	1.24	140.7	YES	NO	bd	bb	4.409
9	123678-HxCDF	35.31	1.130e4	9.589e3	1.019	1.18	1.24	152.6	YES	NO	db	dd	3.458
10	123478-HxCDF	35.16	3.514e4	2.911e4	1.045	1.21	1.24	463.7	YES	NO	dd	dd	10.743

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	39.03	1.410e5	1.467e5	1.243	0.96	1.05	1455.4	YES	NO	bb	bd	53.528
2	1234789-HpCDF	41.30	1.316e4	1.367e4	1.192	0.96	1.05	122.6	YES	NO	bb	bb	6.336
3	Total-heptafurans	39.70	3.143e5	3.205e5	1.218	0.98	1.05	3132.2	YES	NO	bd	bd	132.386
4	Total-heptafurans	39.45	3.235e3	3.273e3	1.218	0.99	1.05	30.4	YES	NO	bb	bb	1.357



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

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## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.70	4.933e3	7.051e3	1.072	0.70	0.77	36.5	YES	NO	dd	dd	1.278
2	Total-tetrafurans	24.54	4.100e2	4.915e2	1.072	0.83	0.77	3.6	YES	NO	bd	bd	0.096
3	Total-tetrafurans	24.28	3.674e3	5.584e3	1.072	0.66	0.77	36.1	YES	NO	db	dd	0.987
4	Total-tetrafurans	24.14	2.856e3	4.049e3	1.072	0.71	0.77	29.2	YES	NO	dd	dd	0.736
5	Total-tetrafurans	24.04	1.318e4	1.803e4	1.072	0.73	0.77	122.1	YES	NO	dd	dd	3.328
6	Total-tetrafurans	23.87	2.220e3	3.273e3	1.072	0.68	0.77	22.4	YES	NO	dd	dd	0.586
7	Total-tetrafurans	23.78	6.298e3	9.358e3	1.072	0.67	0.77	55.9	YES	NO	dd	dd	1.670
8	Total-tetrafurans	23.49	2.124e3	2.897e3	1.072	0.73	0.77	21.3	YES	NO	dd	dd	0.535
9	Total-tetrafurans	23.36	1.009e4	1.433e4	1.072	0.70	0.77	84.7	YES	NO	bd	bd	2.604
10	Total-tetrafurans	22.78	3.984e3	5.132e3	1.072	0.78	0.77	36.5	YES	NO	db	bb	0.972
11	1368-TCDF	22.51	3.687e3	4.974e3	1.300	0.74	0.77	24.9	YES	NO	dd	bb	0.762
12	Total-Furans	27.95	2.912e3	3.828e3	1.090	0.76	0.77	28.2	YES	NO	bb	bb	0.707
13	Total-tetrafurans	27.08	3.739e3	5.070e3	1.072	0.74	0.77	36.3	YES	NO	bb	db	0.939
14	Total-tetrafurans	26.43	1.043e4	1.542e4	1.072	0.68	0.77	100.1	YES	NO	db	dd	2.757
15	Total-tetrafurans	26.27	5.932e3	8.593e3	1.072	0.69	0.77	49.0	YES	NO	dd	dd	1.549
16	Total-tetrafurans	26.18	2.604e3	3.653e3	1.072	0.71	0.77	24.9	YES	NO	dd	dd	0.667
17	2378-TCDF	26.05	1.116e4	1.619e4	0.985	0.69	0.77	102.0	YES	NO	dd	dd	3.175
18	Total-tetrafurans	25.81	2.447e3	2.879e3	1.072	0.85	0.77	23.4	YES	NO	dd	dd	0.568
19	Total-tetrafurans	25.40	7.205e3	9.617e3	1.072	0.75	0.77	49.2	YES	NO	bd	dd	1.794
20	Total-tetrafurans	25.13	4.454e3	6.211e3	1.072	0.72	0.77	37.7	YES	NO	db	dd	1.137
21	Total-tetrafurans	24.94	9.025e3	1.208e4	1.072	0.75	0.77	77.2	YES	NO	dd	dd	2.251
22	Total-pentafurans	29.57	6.424e2	4.287e2	0.924	1.50	1.55	11.1	YES	NO	dd	dd	0.161
23	Total-pentafurans	29.26	8.594e3	5.195e3	0.924	1.65	1.55	109.6	YES	NO	dd	dd	2.077
24	Total-pentafurans	29.13	4.228e4	2.630e4	0.924	1.61	1.55	399.9	YES	NO	dd	MM	10.331
25	Total-pentafurans	28.95	7.622e3	4.885e3	0.924	1.56	1.55	81.1	YES	NO	dd	dd	1.884
26	Total-pentafurans	32.51	4.778e3	2.985e3	0.924	1.60	1.55	59.7	YES	NO	bb	bb	1.169
27	23478-PeCDF	31.55	7.980e3	5.111e3	1.008	1.56	1.55	89.6	YES	NO	db	db	1.855
28	Total-pentafurans	31.41	8.768e3	6.066e3	0.924	1.45	1.55	107.8	YES	NO	dd	dd	2.234
29	Total-pentafurans	31.31	3.728e3	2.251e3	0.924	1.66	1.55	42.9	YES	NO	bd	bd	0.901
30	Total-pentafurans	30.52	1.926e3	1.216e3	0.924	1.58	1.55	24.1	YES	NO	dd	dd	0.473
31	Total-pentafurans	30.42	6.271e3	4.332e3	0.924	1.45	1.55	78.8	YES	NO	dd	dd	1.597
32	12378-PeCDF	30.22	4.030e3	2.660e3	0.906	1.52	1.55	54.9	YES	NO	bd	bd	1.004
33	Total-pentafurans	29.85	8.033e3	4.741e3	0.924	1.69	1.55	87.4	YES	NO	dd	dd	1.924
34	Total-hexafurans	35.02	4.920e3	4.349e3	1.063	1.13	1.24	65.9	YES	NO	bd	bd	1.573
35	Total-hexafurans	34.55	1.274e5	1.037e5	1.063	1.23	1.24	1727.6	YES	NO	bb	bb	39.228
36	Total-hexafurans	34.25	3.005e3	2.422e3	1.063	1.24	1.24	44.3	YES	NO	bb	bb	0.921
37	Total-hexafurans	33.72	7.785e4	6.390e4	1.063	1.22	1.24	1004.1	YES	NO	bb	bb	24.062

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	123468-HxCDF	33.51	2.060e4	1.676e4	1.156	1.23	1.24	278.3	YES	NO	bb	bb	5.647
39	123789-HxCDF	37.17	5.060e3	4.296e3	0.992	1.18	1.24	63.9	YES	NO	bb	bb	1.850
40	Total-hexafurans	36.63	1.057e3	7.671e2	1.063	1.38	1.24	17.1	YES	NO	bb	bb	0.310
41	234678-HxCDF	36.13	1.453e4	1.181e4	1.101	1.23	1.24	140.7	YES	NO	bd	bb	4.409
42	123678-HxCDF	35.31	1.130e4	9.589e3	1.019	1.18	1.24	152.6	YES	NO	db	dd	3.458
43	123478-HxCDF	35.16	3.514e4	2.911e4	1.045	1.21	1.24	463.7	YES	NO	dd	dd	10.743
44	1234678-HpCDF	39.03	1.410e5	1.467e5	1.243	0.96	1.05	1455.4	YES	NO	bb	bd	53.528
45	1234789-HpCDF	41.30	1.316e4	1.367e4	1.192	0.96	1.05	122.6	YES	NO	bb	bb	6.336
46	Total-heptafurans	39.70	3.143e5	3.205e5	1.218	0.98	1.05	3132.2	YES	NO	bd	bd	132.386
47	Total-heptafurans	39.45	3.235e3	3.273e3	1.218	0.99	1.05	30.4	YES	NO	bb	bb	1.357
48	OCDF	45.62	2.367e5	2.611e5	1.303	0.91	0.89	1658.2	YES	NO	bd	bd	125.031
49	Total-penta1	27.47	7.090e4	4.725e4		1.50	1.55	1213.9	YES	NO	bb	bb	17.515

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	24.79	1.097e3	1.313e3	1.090	0.84	0.77	13.3	YES	NO	db	bb	0.334
2	Total-tetradoxins	24.28	1.520e3	1.892e3	1.090	0.80	0.77	21.1	YES	NO	db	bb	0.473
3	Total-tetradoxins	24.07	4.511e3	5.928e3	1.090	0.76	0.77	64.0	YES	NO	bd	bb	1.446
4	1368-TCDD	23.80	6.325e3	8.367e3	1.151	0.76	0.77	95.0	YES	NO	bb	bb	1.927
5	1289-TCDD	27.30	2.599e2	3.449e2	0.950	0.75	0.77	3.8	YES	NO	bb	db	0.096
6	Total-tetradoxins	26.29	1.744e3	1.976e3	1.090	0.88	0.77	17.2	YES	NO	db	bd	0.515
7	Total-tetradoxins	25.29	2.636e3	3.309e3	1.090	0.80	0.77	37.8	YES	NO	bb	bd	0.824
8	Total-tetradoxins	25.00	2.321e3	2.725e3	1.090	0.85	0.77	31.1	YES	NO	bb	bb	0.699

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadoxins	31.13	2.729e3	1.683e3	1.562	1.62	1.55	29.1	YES	NO	bb	bd	0.667
2	Total-pentadoxins	30.56	4.623e3	2.597e3	1.562	1.78	1.55	58.6	YES	NO	dd	dd	1.092
3	Total-pentadoxins	30.42	4.350e3	3.159e3	1.562	1.38	1.55	57.3	YES	NO	bd	bd	1.135
4	Total-pentadoxins	30.20	5.802e3	3.804e3	1.562	1.53	1.55	66.9	YES	NO	bb	bb	1.452
5	12389-PeCDD	32.21	1.187e3	6.971e2	1.371	1.70	1.55	12.3	YES	NO	bd	bb	0.325
6	12378-PeCDD	31.81	5.445e3	3.722e3	1.152	1.46	1.55	60.5	YES	NO	bb	bb	1.880
7	Total-pentadoxins	29.11	1.915e4	1.232e4	1.562	1.55	1.55	149.2	YES	NO	MM	bb	4.756

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDD	36.28	5.450e3	4.584e3	0.934	1.19	1.24	45.5	YES	NO	bd	bd	2.129
2	Total-hexadioxins	35.41	6.412e4	5.208e4	0.978	1.23	1.24	338.6	YES	NO	bd	bd	23.069
3	Total-hexadioxins	35.05	1.455e4	1.074e4	0.978	1.36	1.24	104.7	YES	NO	bd	bb	5.022
4	124679-HxCDD	34.28	6.209e4	5.221e4	1.153	1.19	1.24	457.2	YES	NO	bb	bb	19.655
5	123789-HxCDD	36.78	1.124e4	9.483e3	0.873	1.19	1.24	87.0	YES	NO	bb	bb	4.606
6	Total-hexadioxins	36.55	2.997e3	2.558e3	0.978	1.17	1.24	24.6	YES	NO	bd	dd	1.103
7	123678-HxCDD	36.40	2.220e4	1.840e4	0.950	1.21	1.24	170.9	YES	NO	db	dd	8.122

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.54	3.982e5	3.797e5	1.268	1.05	1.05	1730.4	YES	NO	bb	bb	176.580
2	1234679-HPCDD	39.49	4.213e5	4.083e5	1.473	1.03	1.05	1904.8	YES	NO	bb	bb	162.055

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	24.79	1.097e3	1.313e3	1.090	0.84	0.77	13.3	YES	NO	db	bb	0.334
2	Total-tetradoxins	24.28	1.520e3	1.892e3	1.090	0.80	0.77	21.1	YES	NO	db	bb	0.473
3	Total-tetradoxins	24.07	4.511e3	5.928e3	1.090	0.76	0.77	64.0	YES	NO	bd	bb	1.446
4	1368-TCDD	23.80	6.325e3	8.367e3	1.151	0.76	0.77	95.0	YES	NO	bb	bb	1.927
5	1289-TCDD	27.30	2.599e2	3.449e2	0.950	0.75	0.77	3.8	YES	NO	bb	db	0.096
6	Total-tetradoxins	26.29	1.744e3	1.976e3	1.090	0.88	0.77	17.2	YES	NO	db	bd	0.515
7	Total-tetradoxins	25.29	2.636e3	3.309e3	1.090	0.80	0.77	37.8	YES	NO	bb	bd	0.824
8	Total-tetradoxins	25.00	2.321e3	2.725e3	1.090	0.85	0.77	31.1	YES	NO	bb	bb	0.699
9	Total-pentadoxins	31.13	2.729e3	1.683e3	1.562	1.62	1.55	29.1	YES	NO	bb	bd	0.667
10	Total-pentadoxins	30.56	4.623e3	2.597e3	1.562	1.78	1.55	58.6	YES	NO	dd	dd	1.092
11	Total-pentadoxins	30.42	4.350e3	3.159e3	1.562	1.38	1.55	57.3	YES	NO	bd	bd	1.135
12	Total-pentadoxins	30.20	5.802e3	3.804e3	1.562	1.53	1.55	66.9	YES	NO	bb	bb	1.452
13	12389-PECDD	32.21	1.187e3	6.971e2	1.371	1.70	1.55	12.3	YES	NO	bd	bb	0.325
14	12378-PeCDD	31.81	5.445e3	3.722e3	1.152	1.46	1.55	60.5	YES	NO	bb	bb	1.880
15	123478-HxCDD	36.28	5.450e3	4.584e3	0.934	1.19	1.24	45.5	YES	NO	bd	bd	2.129
16	Total-hexadoxins	35.41	6.412e4	5.208e4	0.978	1.23	1.24	338.6	YES	NO	bd	bd	23.069
17	Total-hexadoxins	35.05	1.455e4	1.074e4	0.978	1.36	1.24	104.7	YES	NO	bd	bb	5.022
18	124679-HxCDD	34.28	6.209e4	5.221e4	1.153	1.19	1.24	457.2	YES	NO	bb	bb	19.655
19	123789-HxCDD	36.78	1.124e4	9.483e3	0.873	1.19	1.24	87.0	YES	NO	bb	bb	4.606
20	Total-hexadoxins	36.55	2.997e3	2.558e3	0.978	1.17	1.24	24.6	YES	NO	bd	dd	1.103
21	123678-HxCDD	36.40	2.220e4	1.840e4	0.950	1.21	1.24	170.9	YES	NO	db	dd	8.122
22	1234678-HpCDD	40.54	3.982e5	3.797e5	1.268	1.05	1.05	1730.4	YES	NO	bb	bb	176.580
23	1234679-HPCDD	39.49	4.213e5	4.083e5	1.473	1.03	1.05	1904.8	YES	NO	bb	bb	162.055
24	OCDD	45.37	2.093e6	2.442e6	1.089	0.86	0.89	9681.1	YES	NO	bb	bb	1362.0...
25	Total-pentadoxins	29.11	1.915e4	1.232e4	1.562	1.55	1.55	149.2	YES	NO	MM	bb	4.756

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.70	4.933e3	7.051e3	1.072	0.70	0.77	36.5	YES	NO	dd	dd	1.278
2	Total-tetrafurans	24.54	4.100e2	4.915e2	1.072	0.83	0.77	3.6	YES	NO	bd	bd	0.096
3	Total-tetrafurans	24.28	3.674e3	5.584e3	1.072	0.66	0.77	36.1	YES	NO	db	dd	0.987
4	Total-tetrafurans	24.14	2.856e3	4.049e3	1.072	0.71	0.77	29.2	YES	NO	dd	dd	0.736
5	Total-tetrafurans	24.04	1.318e4	1.803e4	1.072	0.73	0.77	122.1	YES	NO	dd	dd	3.328
6	Total-tetrafurans	23.87	2.220e3	3.273e3	1.072	0.68	0.77	22.4	YES	NO	dd	dd	0.586
7	Total-tetrafurans	23.78	6.298e3	9.358e3	1.072	0.67	0.77	55.9	YES	NO	dd	dd	1.670
8	Total-tetrafurans	23.49	2.124e3	2.897e3	1.072	0.73	0.77	21.3	YES	NO	dd	dd	0.535
9	Total-tetrafurans	23.36	1.009e4	1.433e4	1.072	0.70	0.77	84.7	YES	NO	bd	bd	2.604
10	Total-tetrafurans	22.78	3.984e3	5.132e3	1.072	0.78	0.77	36.5	YES	NO	db	bb	0.972
11	1368-TCDF	22.51	3.687e3	4.974e3	1.300	0.74	0.77	24.9	YES	NO	dd	bb	0.762
12	Total-Furans	27.95	2.912e3	3.828e3	1.090	0.76	0.77	28.2	YES	NO	bb	bb	0.707
13	Total-tetrafurans	27.08	3.739e3	5.070e3	1.072	0.74	0.77	36.3	YES	NO	bb	db	0.939
14	Total-tetrafurans	26.43	1.043e4	1.542e4	1.072	0.68	0.77	100.1	YES	NO	db	dd	2.757
15	Total-tetrafurans	26.27	5.932e3	8.593e3	1.072	0.69	0.77	49.0	YES	NO	dd	dd	1.549
16	Total-tetrafurans	26.18	2.604e3	3.653e3	1.072	0.71	0.77	24.9	YES	NO	dd	dd	0.667
17	2378-TCDF	26.05	1.116e4	1.619e4	0.985	0.69	0.77	102.0	YES	NO	dd	dd	3.175
18	Total-tetrafurans	25.81	2.447e3	2.879e3	1.072	0.85	0.77	23.4	YES	NO	dd	dd	0.568
19	Total-tetrafurans	25.40	7.205e3	9.617e3	1.072	0.75	0.77	49.2	YES	NO	bd	dd	1.794
20	Total-tetrafurans	25.13	4.454e3	6.211e3	1.072	0.72	0.77	37.7	YES	NO	db	dd	1.137
21	Total-tetrafurans	24.94	9.025e3	1.208e4	1.072	0.75	0.77	77.2	YES	NO	dd	dd	2.251
22	Total-pentafurans	29.57	6.424e2	4.287e2	0.924	1.50	1.55	11.1	YES	NO	dd	dd	0.161
23	Total-pentafurans	29.26	8.594e3	5.195e3	0.924	1.65	1.55	109.6	YES	NO	dd	dd	2.077
24	Total-pentafurans	29.13	4.228e4	2.630e4	0.924	1.61	1.55	399.9	YES	NO	dd	MM	10.331
25	Total-pentafurans	28.95	7.622e3	4.885e3	0.924	1.56	1.55	81.1	YES	NO	dd	dd	1.884
26	Total-pentafurans	32.51	4.778e3	2.985e3	0.924	1.60	1.55	59.7	YES	NO	bb	bb	1.169
27	23478-PeCDF	31.55	7.980e3	5.111e3	1.008	1.56	1.55	89.6	YES	NO	db	db	1.855
28	Total-pentafurans	31.41	8.768e3	6.066e3	0.924	1.45	1.55	107.8	YES	NO	dd	dd	2.234
29	Total-pentafurans	31.31	3.728e3	2.251e3	0.924	1.66	1.55	42.9	YES	NO	bd	bd	0.901
30	Total-pentafurans	30.52	1.926e3	1.216e3	0.924	1.58	1.55	24.1	YES	NO	dd	dd	0.473
31	Total-pentafurans	30.42	6.271e3	4.332e3	0.924	1.45	1.55	78.8	YES	NO	dd	dd	1.597
32	12378-PeCDF	30.22	4.030e3	2.660e3	0.906	1.52	1.55	54.9	YES	NO	bd	bd	1.004
33	Total-pentafurans	29.85	8.033e3	4.741e3	0.924	1.69	1.55	87.4	YES	NO	dd	dd	1.924
34	Total-hexafurans	35.02	4.920e3	4.349e3	1.063	1.13	1.24	65.9	YES	NO	bd	bd	1.573
35	Total-hexafurans	34.55	1.274e5	1.037e5	1.063	1.23	1.24	1727.6	YES	NO	bb	bb	39.228
36	Total-hexafurans	34.25	3.005e3	2.422e3	1.063	1.24	1.24	44.3	YES	NO	bb	bb	0.921
37	Total-hexafurans	33.72	7.785e4	6.390e4	1.063	1.22	1.24	1004.1	YES	NO	bb	bb	24.062

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	123468-HxCDF	33.51	2.060e4	1.676e4	1.156	1.23	1.24	278.3	YES	NO	bb	bb	5.647
39	123789-HxCDF	37.17	5.060e3	4.296e3	0.992	1.18	1.24	63.9	YES	NO	bb	bb	1.850
40	Total-hexafurans	36.63	1.057e3	7.671e2	1.063	1.38	1.24	17.1	YES	NO	bb	bb	0.310
41	234678-HxCDF	36.13	1.453e4	1.181e4	1.101	1.23	1.24	140.7	YES	NO	bd	bb	4.409
42	123678-HxCDF	35.31	1.130e4	9.589e3	1.019	1.18	1.24	152.6	YES	NO	db	dd	3.458
43	123478-HxCDF	35.16	3.514e4	2.911e4	1.045	1.21	1.24	463.7	YES	NO	dd	dd	10.743
44	1234678-HpCDF	39.03	1.410e5	1.467e5	1.243	0.96	1.05	1455.4	YES	NO	bb	bd	53.528
45	1234789-HpCDF	41.30	1.316e4	1.367e4	1.192	0.96	1.05	122.6	YES	NO	bb	bb	6.336
46	Total-heptafurans	39.70	3.143e5	3.205e5	1.218	0.98	1.05	3132.2	YES	NO	bd	bd	132.386
47	Total-heptafurans	39.45	3.235e3	3.273e3	1.218	0.99	1.05	30.4	YES	NO	bb	bb	1.357
48	OCDF	45.62	2.367e5	2.611e5	1.303	0.91	0.89	1658.2	YES	NO	bd	bd	125.031
49	Total-penta1	27.47	7.090e4	4.725e4		1.50	1.55	1213.9	YES	NO	bb	bb	17.515
50	Total-tetradioxins	24.79	1.097e3	1.313e3	1.090	0.84	0.77	13.3	YES	NO	db	bb	0.334
51	Total-tetradioxins	24.28	1.520e3	1.892e3	1.090	0.80	0.77	21.1	YES	NO	db	bb	0.473
52	Total-tetradioxins	24.07	4.511e3	5.928e3	1.090	0.76	0.77	64.0	YES	NO	bd	bb	1.446
53	1368-TCDD	23.80	6.325e3	8.367e3	1.151	0.76	0.77	95.0	YES	NO	bb	bb	1.927
54	1289-TCDD	27.30	2.599e2	3.449e2	0.950	0.75	0.77	3.8	YES	NO	bb	db	0.096
55	Total-tetradioxins	26.29	1.744e3	1.976e3	1.090	0.88	0.77	17.2	YES	NO	db	bd	0.515
56	Total-tetradioxins	25.29	2.636e3	3.309e3	1.090	0.80	0.77	37.8	YES	NO	bb	bd	0.824
57	Total-tetradioxins	25.00	2.321e3	2.725e3	1.090	0.85	0.77	31.1	YES	NO	bb	bb	0.699
58	Total-pentadioxins	31.13	2.729e3	1.683e3	1.562	1.62	1.55	29.1	YES	NO	bb	bd	0.667
59	Total-pentadioxins	30.56	4.623e3	2.597e3	1.562	1.78	1.55	58.6	YES	NO	dd	dd	1.092
60	Total-pentadioxins	30.42	4.350e3	3.159e3	1.562	1.38	1.55	57.3	YES	NO	bd	bd	1.135
61	Total-pentadioxins	30.20	5.802e3	3.804e3	1.562	1.53	1.55	66.9	YES	NO	bb	bb	1.452
62	12389-PECDD	32.21	1.187e3	6.971e2	1.371	1.70	1.55	12.3	YES	NO	bd	bb	0.325
63	12378-PeCDD	31.81	5.445e3	3.722e3	1.152	1.46	1.55	60.5	YES	NO	bb	bb	1.880
64	123478-HxCDD	36.28	5.450e3	4.584e3	0.934	1.19	1.24	45.5	YES	NO	bd	bd	2.129
65	Total-hexadioxins	35.41	6.412e4	5.208e4	0.978	1.23	1.24	338.6	YES	NO	bd	bd	23.069
66	Total-hexadioxins	35.05	1.455e4	1.074e4	0.978	1.36	1.24	104.7	YES	NO	bd	bb	5.022
67	124679-HXCDD	34.28	6.209e4	5.221e4	1.153	1.19	1.24	457.2	YES	NO	bb	bb	19.655
68	123789-HxCDD	36.78	1.124e4	9.483e3	0.873	1.19	1.24	87.0	YES	NO	bb	bb	4.606
69	Total-hexadioxins	36.55	2.997e3	2.558e3	0.978	1.17	1.24	24.6	YES	NO	bd	dd	1.103
70	123678-HxCDD	36.40	2.220e4	1.840e4	0.950	1.21	1.24	170.9	YES	NO	db	dd	8.122
71	1234678-HpCDD	40.54	3.982e5	3.797e5	1.268	1.05	1.05	1730.4	YES	NO	bb	bb	176.580
72	1234679-HPCDD	39.49	4.213e5	4.083e5	1.473	1.03	1.05	1904.8	YES	NO	bb	bb	162.055
73	OCDD	45.37	2.093e6	2.442e6	1.089	0.86	0.89	9681.1	YES	NO	bb	bb	1362.0...
74	Total-pentadioxins	29.11	1.915e4	1.232e4	1.562	1.55	1.55	149.2	YES	NO	MM	bb	4.756

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.01	1.415e6					15.6	YES		dd		
2	FUNCTION1 PFK	23.83	4.176e5					17.5	YES		dd		
3	FUNCTION1 PFK	23.61	1.580e6					22.2	YES		bd		
4	FUNCTION1 PFK	23.40	2.536e5					17.9	YES		bb		
5	FUNCTION1 PFK	23.24	1.299e6					17.2	YES		bb		
6	FUNCTION1 PFK	22.57	2.396e5					6.7	YES		db		
7	FUNCTION1 PFK	22.49	4.430e5					8.0	YES		bd		
8	FUNCTION1 PFK	22.19	3.156e5					8.4	YES		db		
9	FUNCTION1 PFK	22.13	1.060e5					6.0	YES		dd		
10	FUNCTION1 PFK	22.06	6.308e4					3.9	YES		bd		
11	FUNCTION1 PFK	21.32	3.155e5					6.3	YES		db		
12	FUNCTION1 PFK	21.27	7.765e4					5.1	YES		bd		
13	FUNCTION1 PFK	21.12	3.492e3					0.8	NO		bb		
14	FUNCTION1 PFK	28.12	9.263e4					3.2	YES		bb		
15	FUNCTION1 PFK	27.85	2.172e5					4.6	YES		bb		
16	FUNCTION1 PFK	26.86	2.616e4					1.4	NO		bb		
17	FUNCTION1 PFK	26.53	1.764e3					0.4	NO		bb		
18	FUNCTION1 PFK	26.41	2.066e4					1.7	NO		bb		
19	FUNCTION1 PFK	26.24	2.346e4					1.2	NO		bb		
20	FUNCTION1 PFK	25.14	1.782e3					0.4	NO		bb		
21	FUNCTION1 PFK	24.42	2.778e5					7.0	YES		db		
22	FUNCTION1 PFK	24.37	1.278e5					8.3	YES		dd		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.64	5.904e5					8.7	YES		bb		0.000
2	FUNCTION2 PFK	28.29	7.155e4					4.3	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.20	7.222e3					1.9	NO		bb		0.000
2	FUNCTION3 PFK	33.13	3.893e4					4.4	YES		db		0.000
3	FUNCTION3 PFK	33.06	2.869e4					2.7	NO		bd		0.000
4	FUNCTION3 PFK	35.65	1.183e4					2.0	NO		db		0.000
5	FUNCTION3 PFK	35.61	2.078e4					3.5	YES		dd		0.000
6	FUNCTION3 PFK	35.56	1.633e4					2.7	NO		dd		0.000
7	FUNCTION3 PFK	35.52	1.641e4					2.6	NO		dd		0.000
8	FUNCTION3 PFK	35.46	2.423e4					3.1	YES		dd		0.000
9	FUNCTION3 PFK	35.43	7.252e3					1.9	NO		bd		0.000
10	FUNCTION3 PFK	34.44	2.999e3					0.8	NO		bb		0.000
11	FUNCTION3 PFK	34.35	2.543e4					2.3	NO		bb		0.000
12	FUNCTION3 PFK	34.25	7.407e3					1.3	NO		db		0.000
13	FUNCTION3 PFK	34.22	5.195e3					1.2	NO		bd		0.000
14	FUNCTION3 PFK	34.07	1.922e4					1.8	NO		bb		0.000
15	FUNCTION3 PFK	33.87	1.571e3					0.8	NO		bb		0.000
16	FUNCTION3 PFK	33.72	2.998e3					0.9	NO		bb		0.000
17	FUNCTION3 PFK	33.55	1.124e3					0.6	NO		bb		0.000
18	FUNCTION3 PFK	33.36	3.464e3					0.9	NO		bb		0.000
19	FUNCTION3 PFK	33.28	4.122e3					1.1	NO		bb		0.000
20	FUNCTION3 PFK	37.97	2.104e3					0.8	NO		bb		0.000
21	FUNCTION3 PFK	37.79	8.802e3					2.1	NO		db		0.000
22	FUNCTION3 PFK	37.77	3.691e4					2.5	NO		bd		0.000
23	FUNCTION3 PFK	37.58	9.004e4					5.8	YES		db		0.000
24	FUNCTION3 PFK	37.50	9.000e4					6.4	YES		dd		0.000
25	FUNCTION3 PFK	37.23	2.306e5					7.1	YES		bd		0.000
26	FUNCTION3 PFK	36.99	7.746e4					2.8	NO		bb		0.000
27	FUNCTION3 PFK	36.42	3.052e3					0.9	NO		bb		0.000
28	FUNCTION3 PFK	36.35	1.597e4					2.3	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.31	3.968e3					2.1	NO		bb		
2	FUNCTION5 PFK	45.87	5.601e3					2.3	NO		bb		
3	FUNCTION5 PFK	44.66	3.612e3					1.6	NO		bb		
4	FUNCTION5 PFK	43.44	1.450e3					0.9	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.94	1.911e3					54.1	YES		bb		0.000
2	FUNCTION1 HXCD...	27.06	3.585e3					98.7	YES		bb		0.000
3	FUNCTION1 HXCD...	26.41	1.136e4					326.4	YES		bb		0.000
4	FUNCTION1 HXCD...	26.18	1.322e3					40.3	YES		db		0.000
5	FUNCTION1 HXCD...	26.05	6.251e3					183.9	YES		bd		0.000
6	FUNCTION1 HXCD...	25.38	3.301e3					97.4	YES		bb		0.000
7	FUNCTION1 HXCD...	24.04	6.229e3					187.4	YES		bb		0.000
8	FUNCTION1 HXCD...	23.02	7.573e1					3.7	YES		bb		0.000
9	FUNCTION1 HXCD...	22.59	3.753e2					12.4	YES		bb		0.000
10	FUNCTION1 HXCD...	22.19	7.037e1					3.1	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	22.31	9.122e2					25.1	YES		bd		0.000
2	FUNCTION1 HPCD...	21.88	2.063e2					5.1	YES		db		0.000
3	FUNCTION1 HPCD...	21.77	2.781e2					3.4	YES		dd		0.000
4	FUNCTION1 HPCD...	21.62	7.783e1					2.3	NO		bd		0.000
5	FUNCTION1 HPCD...	21.16	1.155e3					30.5	YES		bb		0.000
6	FUNCTION1 HPCD...	26.21	1.427e2					2.2	NO		bb		0.000
7	FUNCTION1 HPCD...	25.58	1.420e2					1.9	NO		bb		0.000
8	FUNCTION1 HPCD...	23.63	1.169e3					27.3	YES		bb		0.000
9	FUNCTION1 HPCD...	23.30	1.091e2					2.8	NO		bb		0.000
10	FUNCTION1 HPCD...	22.71	2.052e2					4.9	YES		db		0.000
11	FUNCTION1 HPCD...	22.60	2.154e2					5.6	YES		dd		0.000
12	FUNCTION1 HPCD...	22.45	7.208e1					1.9	NO		dd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.72	9.177e1					4.3	YES		db		0.000
2	FUNCTION2 HPCD...	32.67	7.163e1					3.4	YES		bd		0.000
3	FUNCTION2 HPCD...	32.50	2.119e3					50.9	YES		bb		0.000
4	FUNCTION2 HPCD...	31.44	4.565e2					11.8	YES		bb		0.000
5	FUNCTION2 HPCD...	29.38	1.764e2					5.1	YES		bb		0.000
6	FUNCTION2 HPCD...	29.24	3.391e3					84.3	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	34.45	8.767e1					5.3	YES		bd		0.000
2	FUNCTION3 OCDPE	34.49	2.148e2					7.2	YES		db		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.40	1.227e2					4.2	YES		bb		0.000
2	FUNCTION4 NCDPE	40.33	1.261e2					3.7	YES		bb		0.000
3	FUNCTION4 NCDPE	40.05	8.160e1					2.1	NO		bb		0.000
4	FUNCTION4 NCDPE	39.45	7.658e1					3.5	YES		bb		0.000
5	FUNCTION4 NCDPE	38.67	3.334e3					74.3	YES		bb		0.000

**ETHERS6**

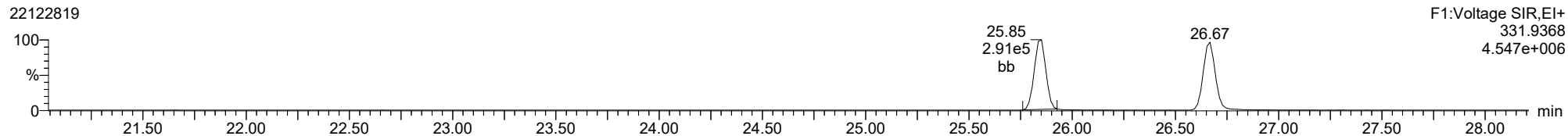
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	46.17	8.638e1					4.6	YES		db		0.000
2	FUNCTION5 DCDPE	46.11	8.630e1					5.2	YES		bd		0.000

**Method:** T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

**ID:** 22L0246-07, **Name:** 22122819, **Date:** 29-Dec-2022, **Time:** 01:42:48, **Conditions:** AUTOSPEC01, **User:** pk

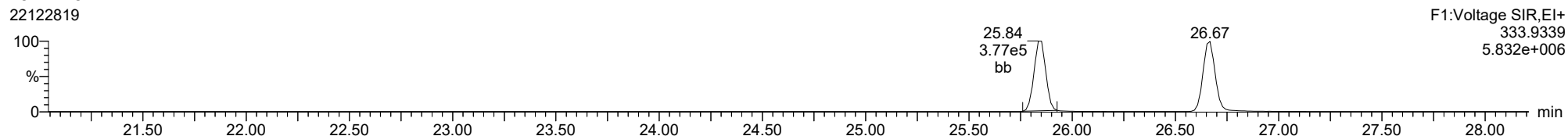
**13C-1234-TCDD**

22122819



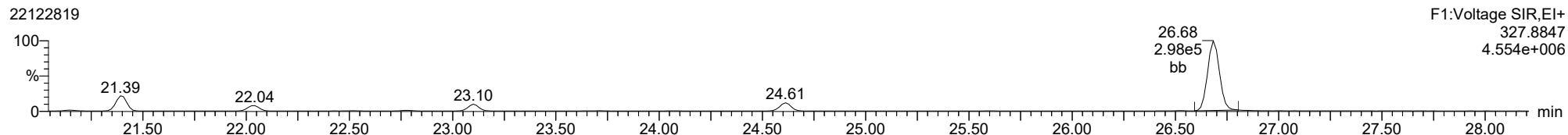
**13C-1234-TCDD**

22122819



**37CL-2378-TCDD**

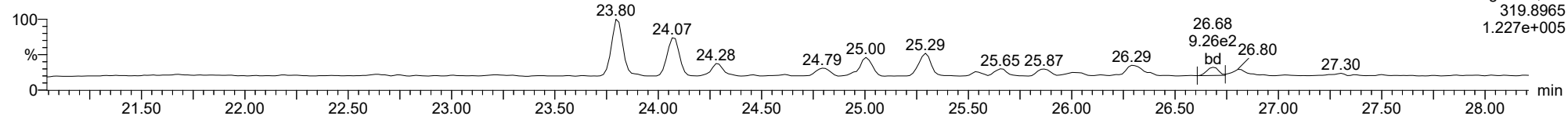
22122819



ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

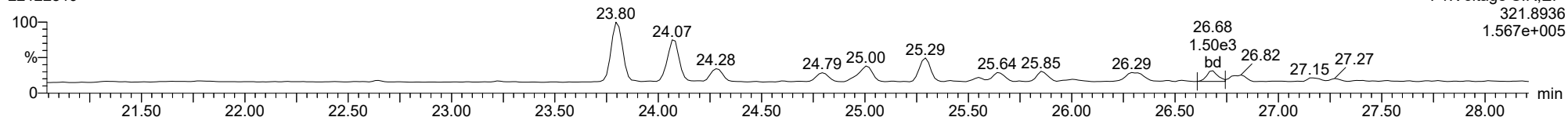
**2378-TCDD**

22122819



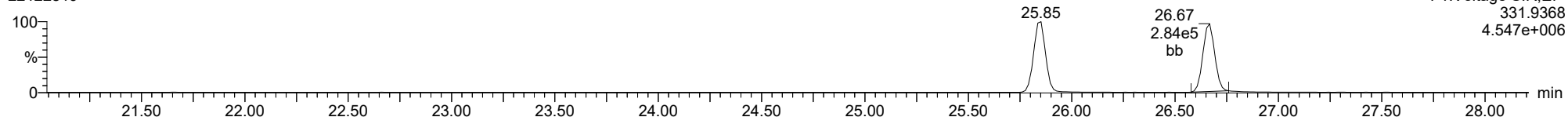
**2378-TCDD**

22122819



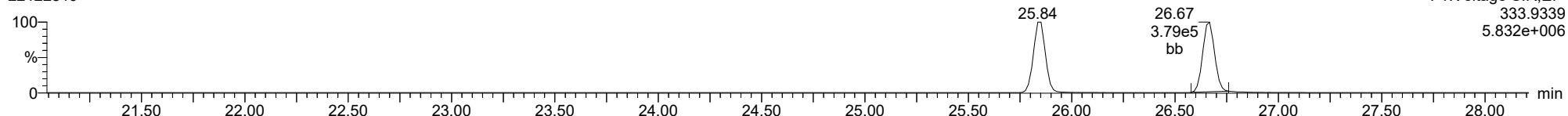
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22122819



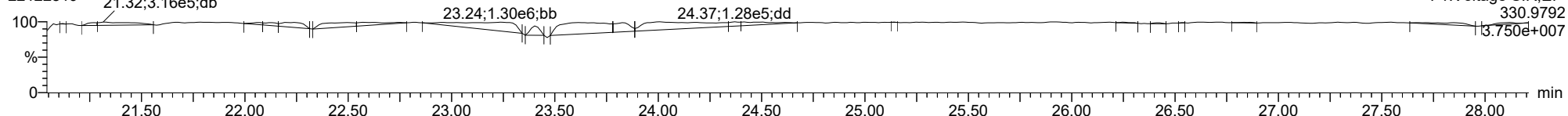
**13C-2378-TCDD**

22122819



**FUNCTION1 PFK**

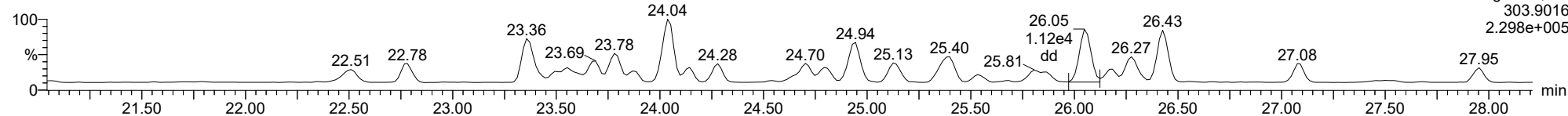
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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

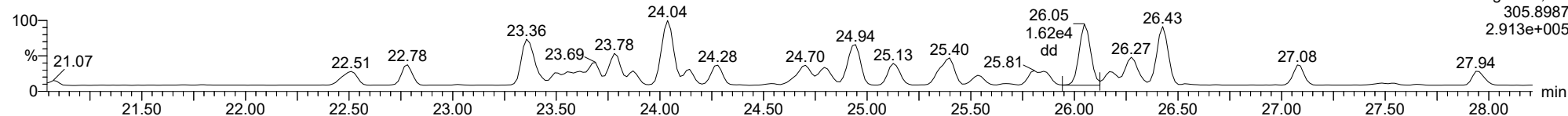
**2378-TCDF**

22122819



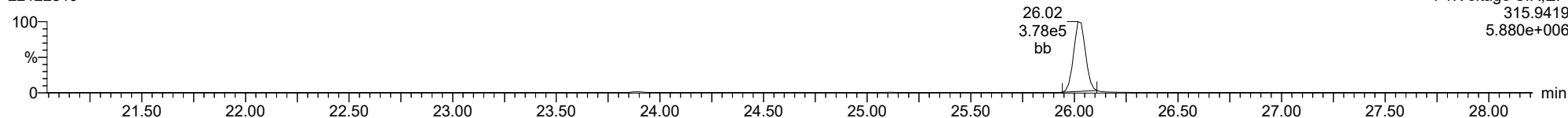
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22122819



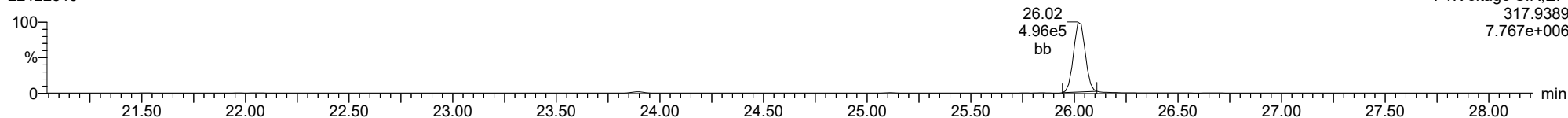
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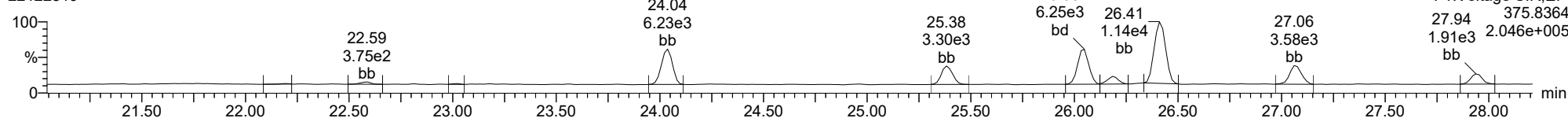
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22122819



**FUNCTION1 HXCDPE**

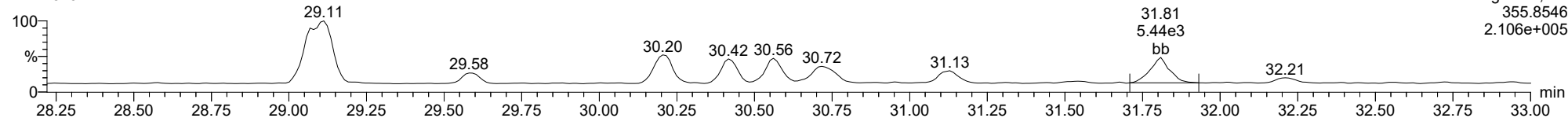
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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

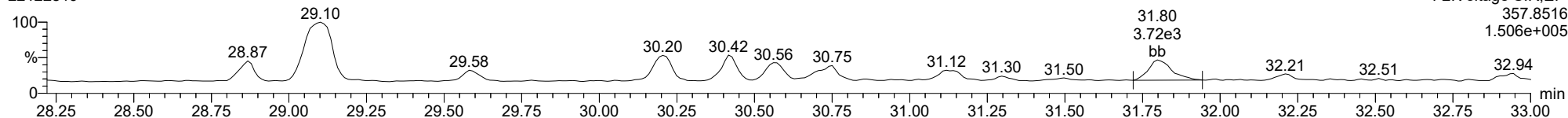
**12378-PeCDD**

22122819



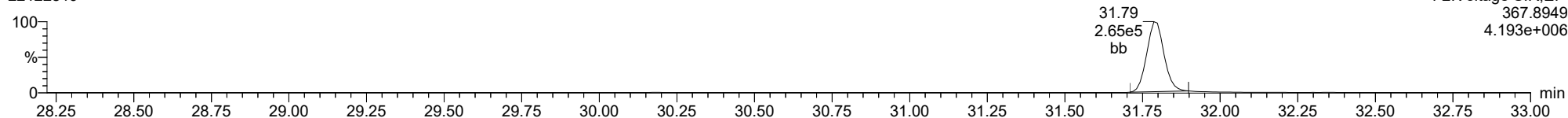
**12378-PeCDD**

22122819



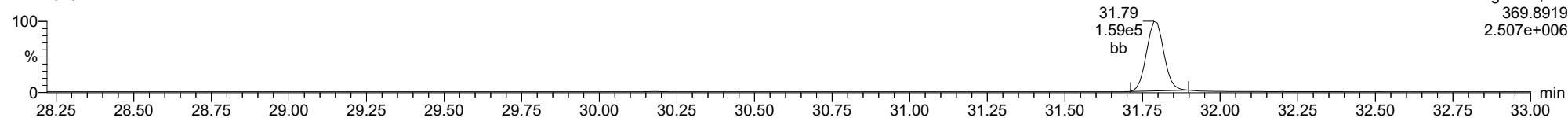
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22122819



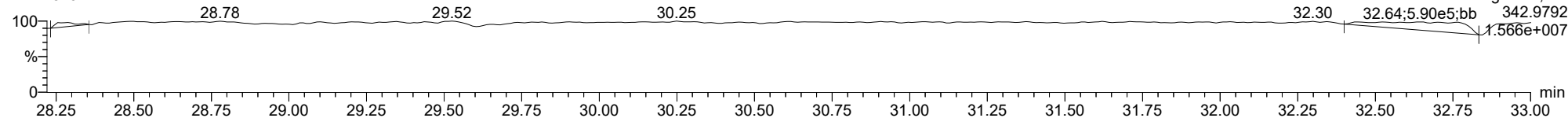
**13C-12378-PeCDD**

22122819



**FUNCTION2 PFK**

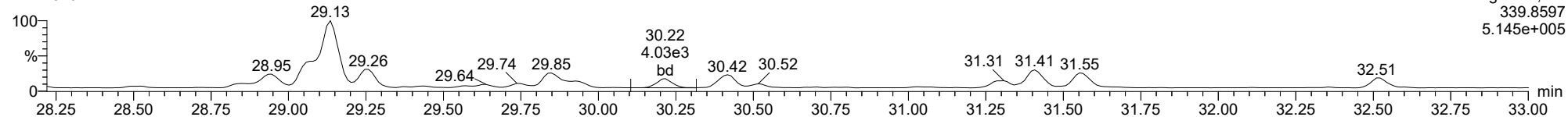
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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

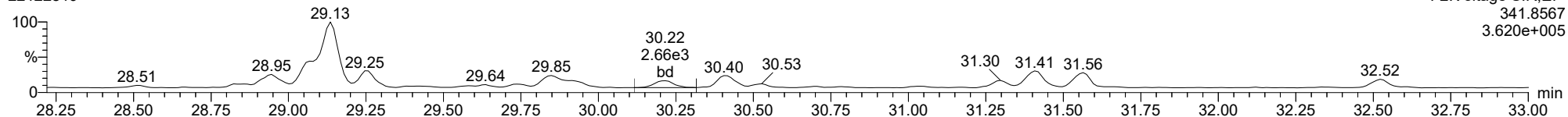
**12378-PeCDF**

22122819



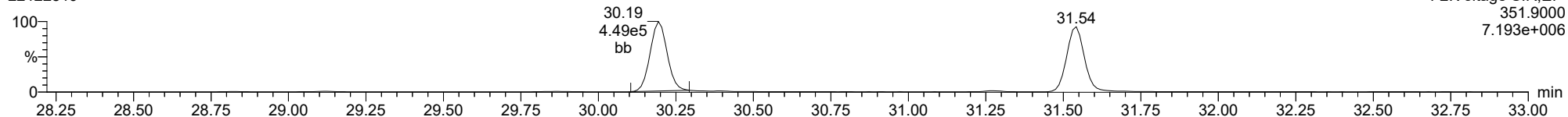
**12378-PeCDF**

22122819



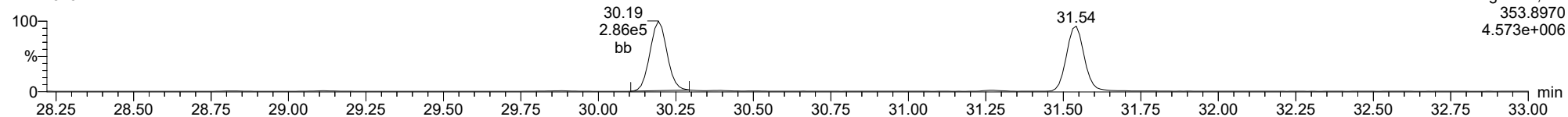
**13C-12378-PeCDF**

22122819



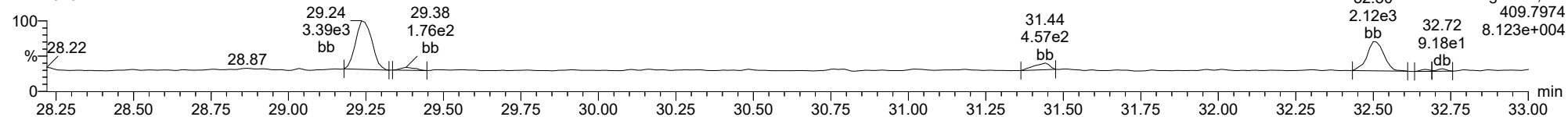
**13C-12378-PeCDF**

22122819



**FUNCTION2 HPCDPE**

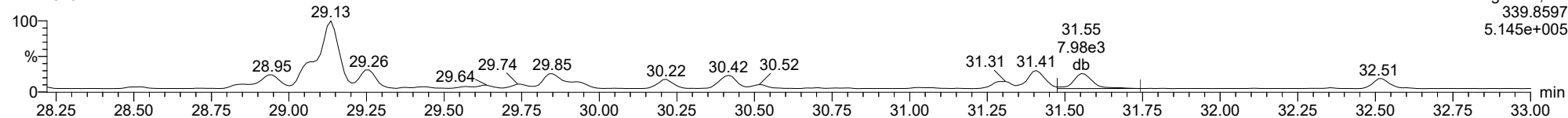
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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

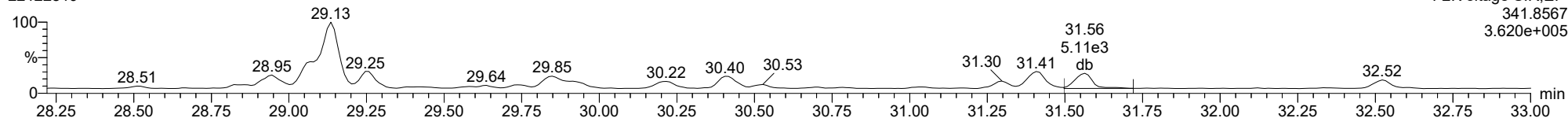
**23478-PeCDF**

22122819



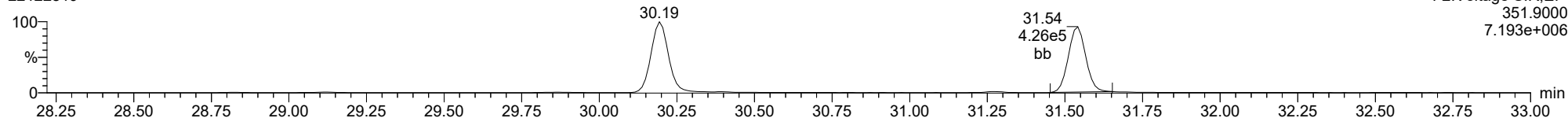
**23478-PeCDF**

22122819



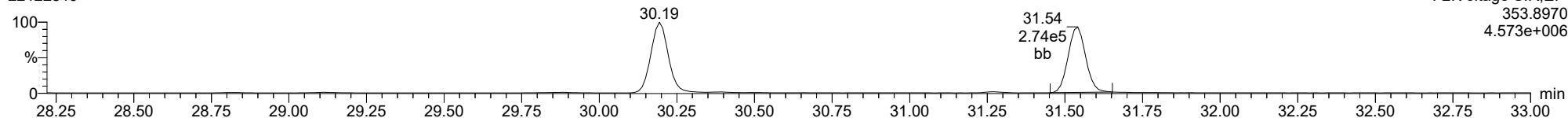
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22122819



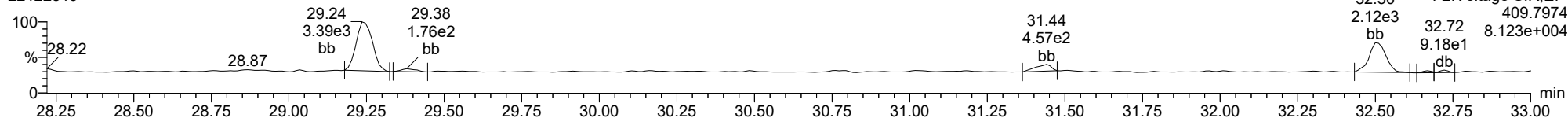
**13C-23478-PeCDF**

22122819



**FUNCTION2 HPCDPE**

22122819

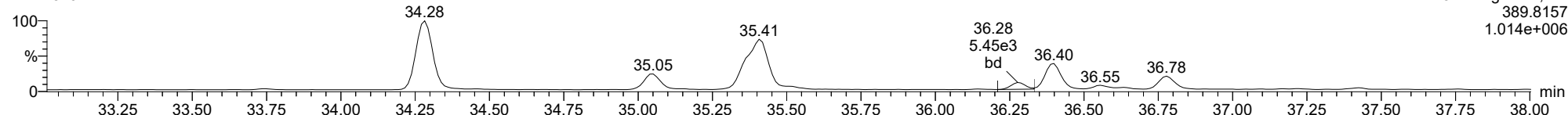




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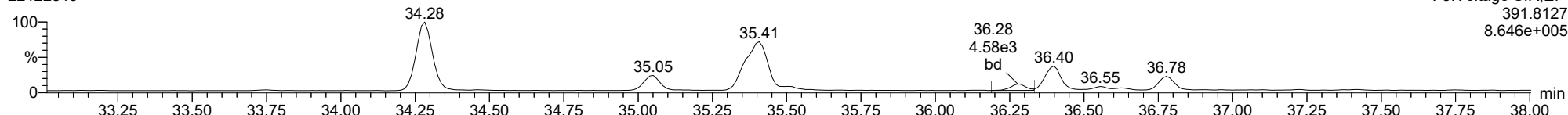
**123478-HxCDD**

22122819



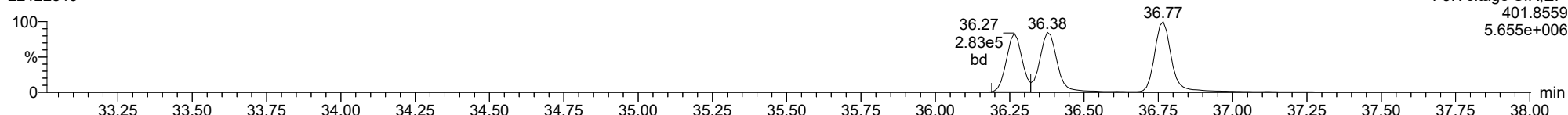
**123478-HxCDD**

22122819



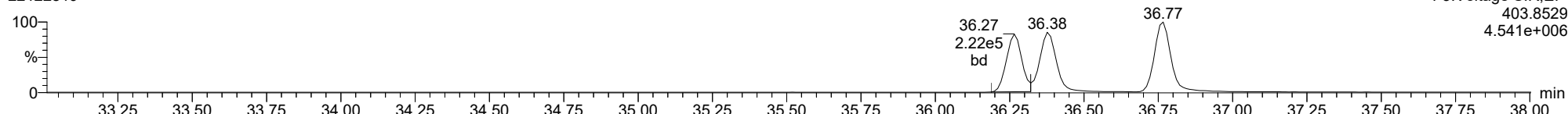
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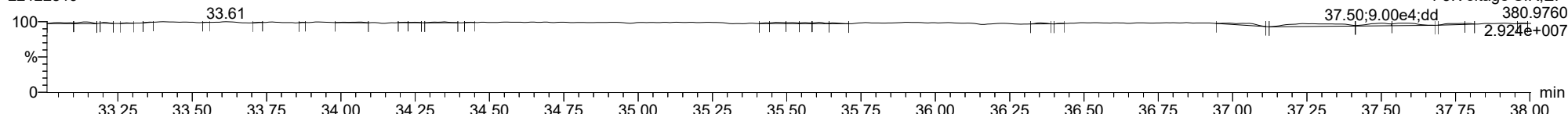
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22122819



**FUNCTION3 PFK**

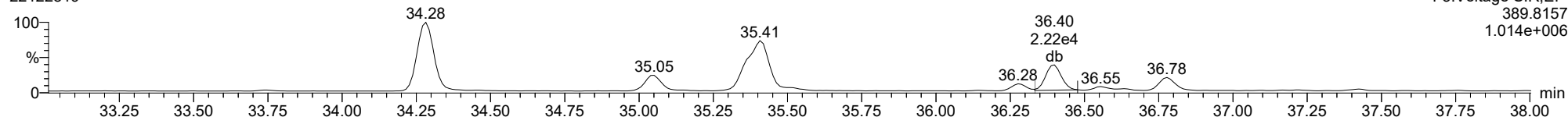
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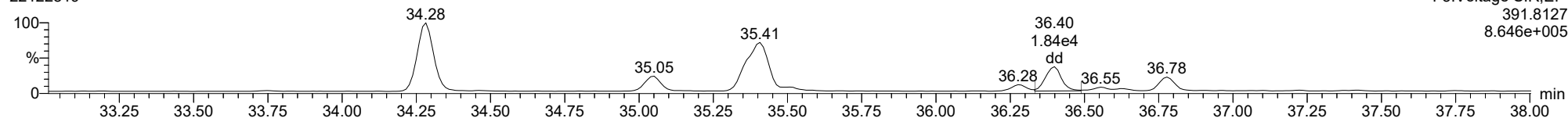
**123678-HxCDD**

22122819



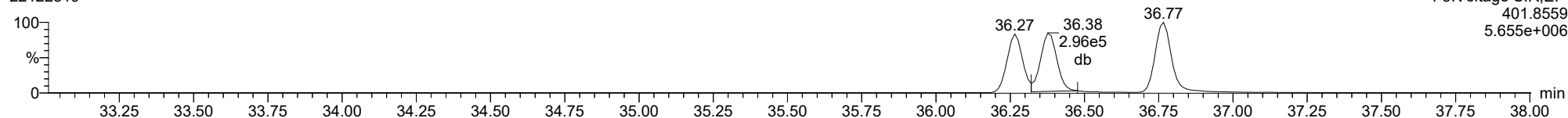
**123678-HxCDD**

22122819



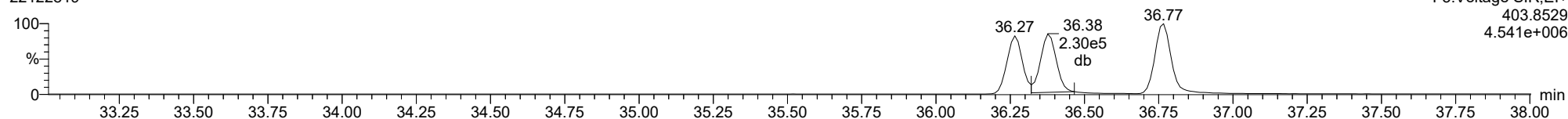
**13C-123678-HxCDD**

22122819



**13C-123678-HxCDD**

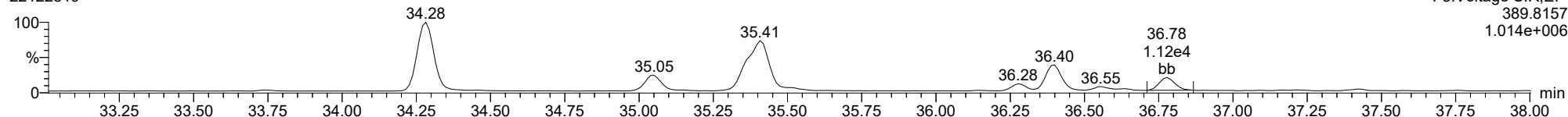
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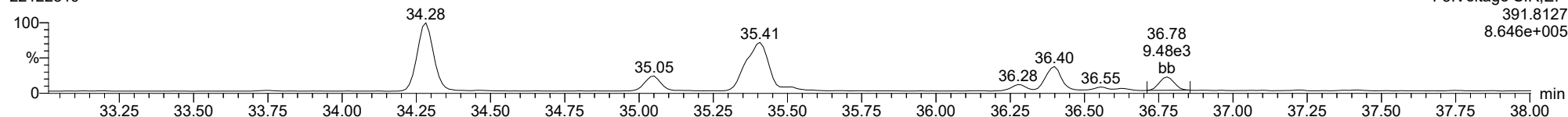
**123789-HxCDD**

22122819



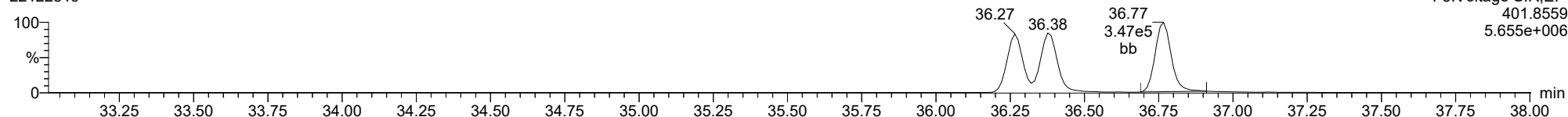
**123789-HxCDD**

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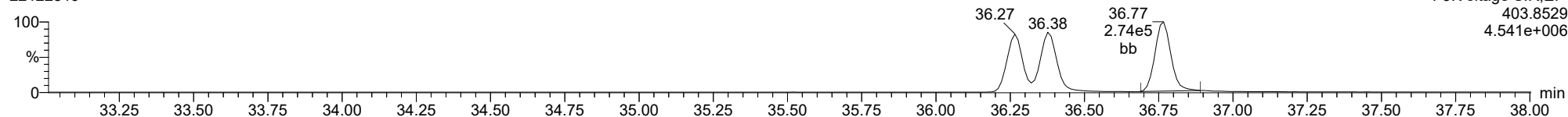
**13C-123789-HxCDD**

22122819



**13C-123789-HxCDD**

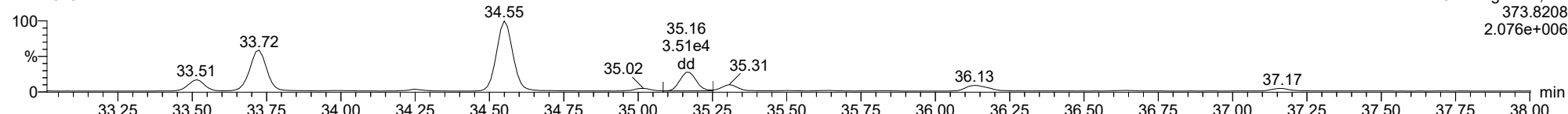
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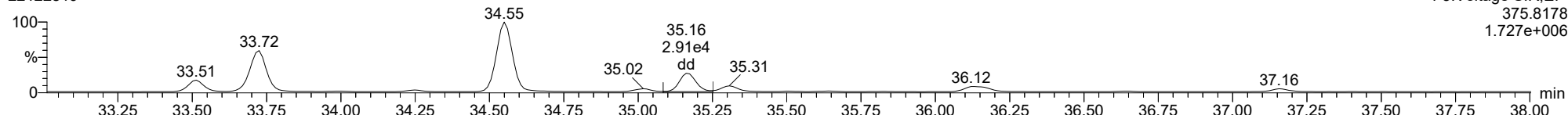
**123478-HxCDF**

22122819



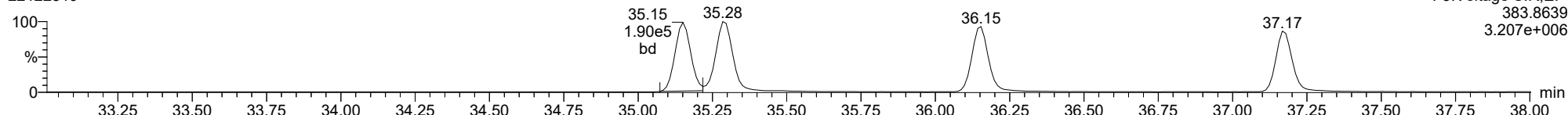
**123478-HxCDF**

22122819



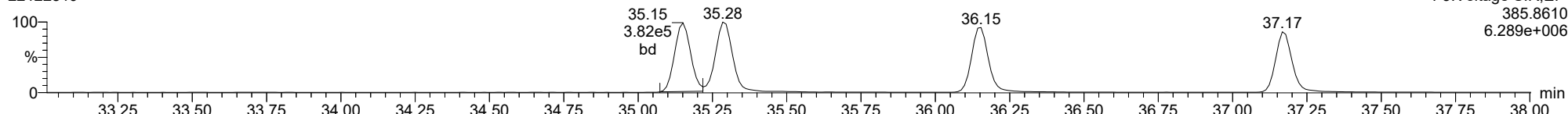
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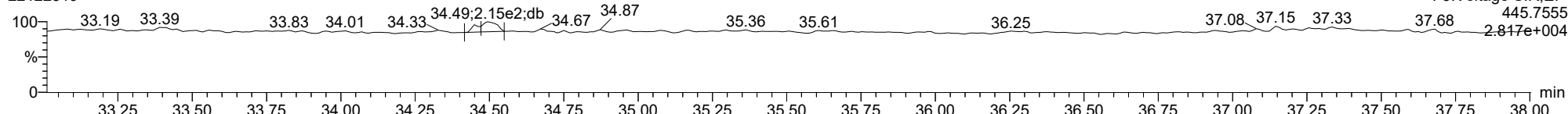
**13C-123478-HxCDF**

22122819



**FUNCTION3 OCDPE**

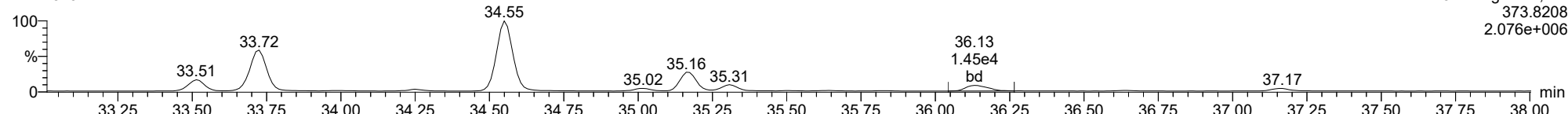
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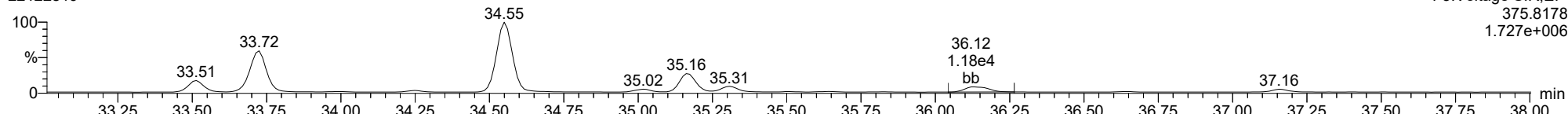
**234678-HxCDF**

22122819



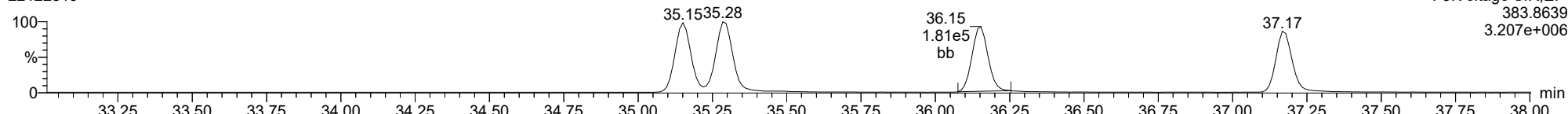
**234678-HxCDF**

22122819



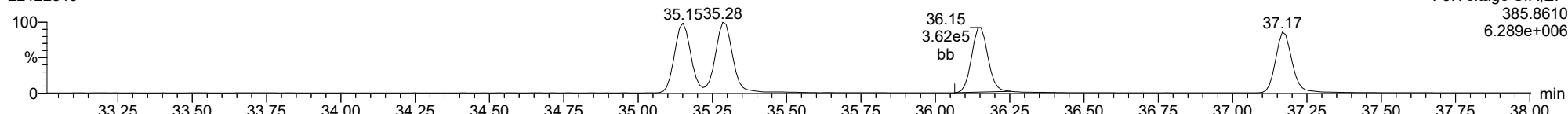
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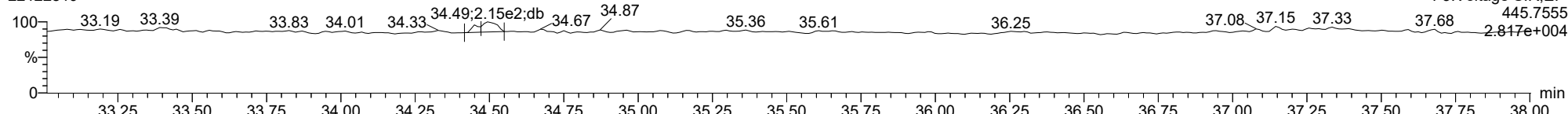
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22122819



**FUNCTION3 OCDPE**

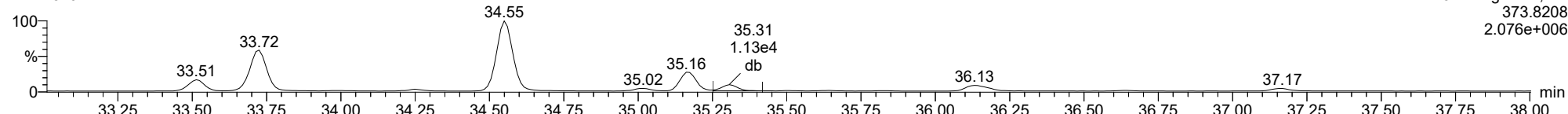
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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

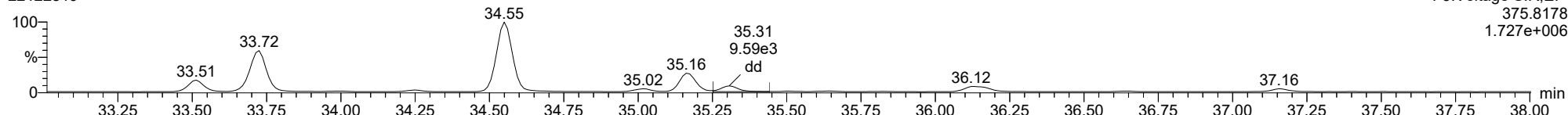
**123678-HxCDF**

22122819



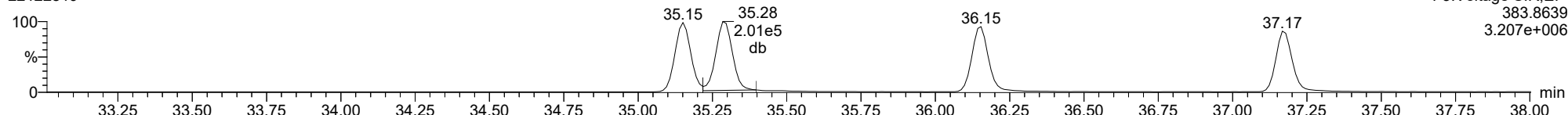
**123678-HxCDF**

22122819



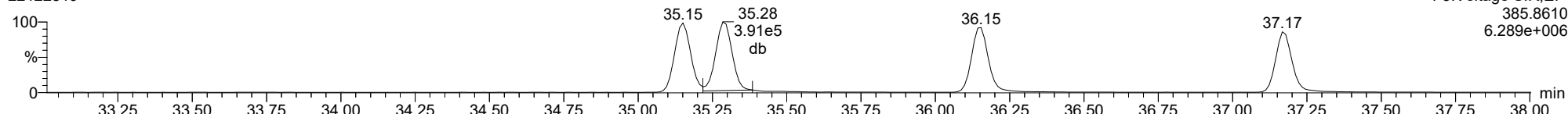
**13C-123678-HxCDF**

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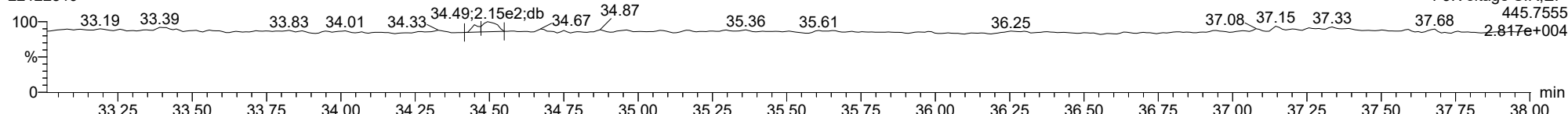
**13C-123678-HxCDF**

22122819



**FUNCTION3 OCDPE**

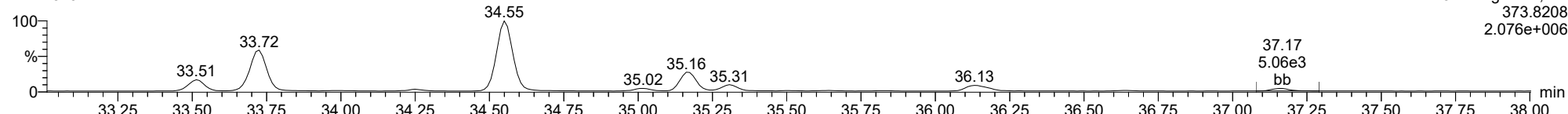
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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

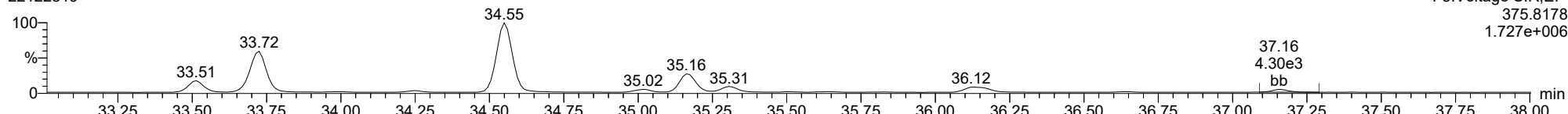
**123789-HxCDF**

22122819



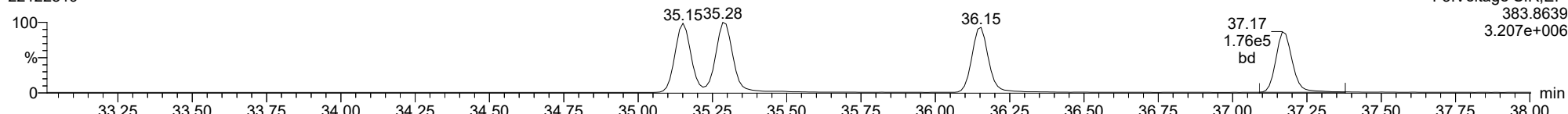
**123789-HxCDF**

22122819



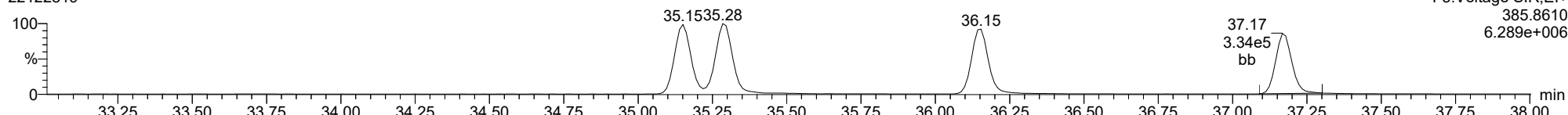
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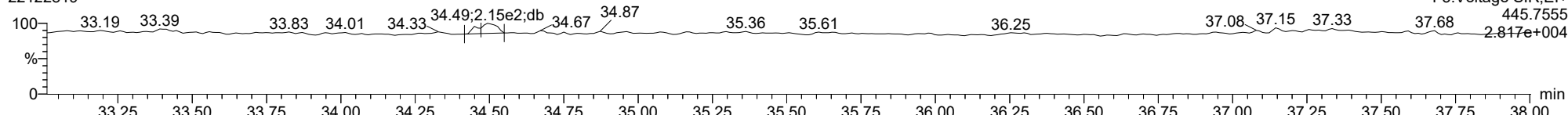
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22122819



**FUNCTION3 OCDPE**

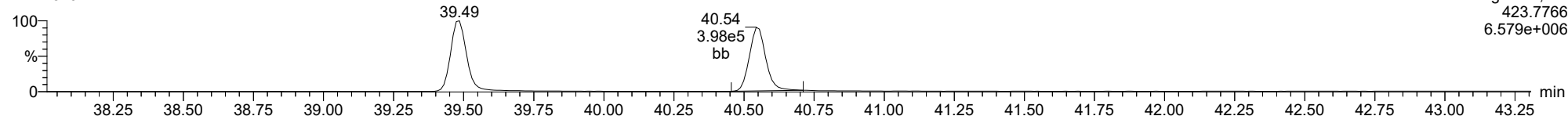
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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

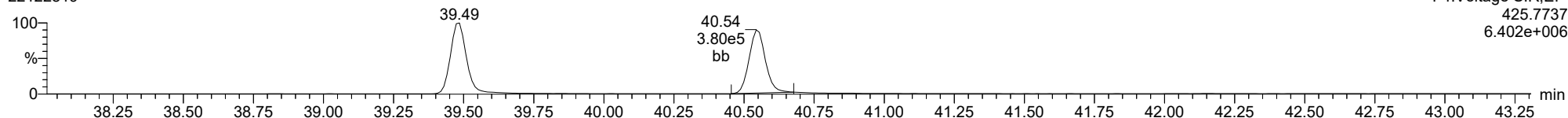
**1234678-HpCDD**

22122819



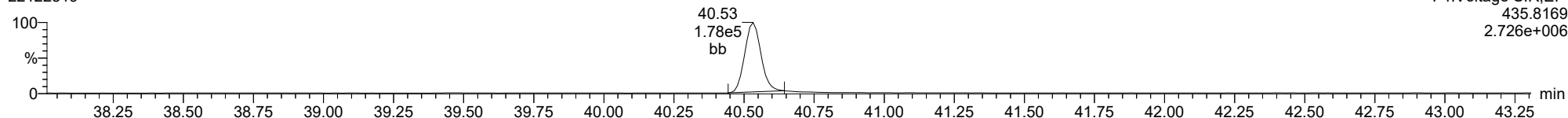
**1234678-HpCDD**

22122819



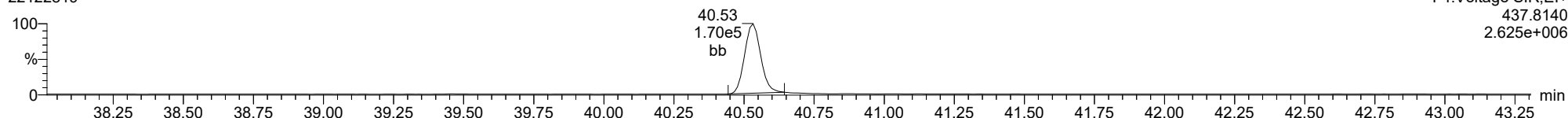
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22122819



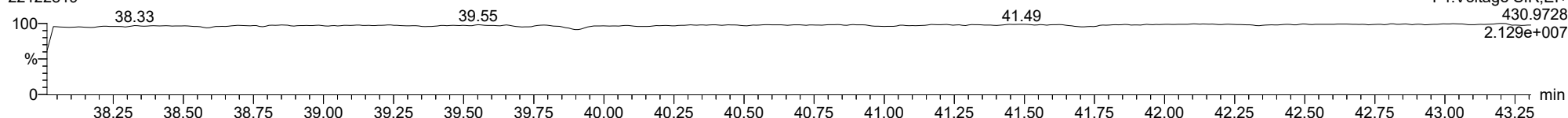
**13C-1234678-HpCDD**

22122819



**FUNCTION4 PFK**

22122819

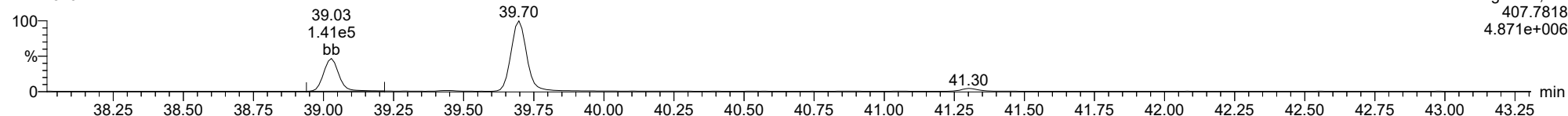




ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

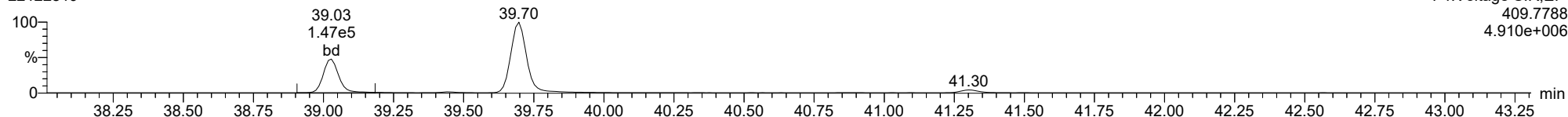
1234678-HpCDF

22122819



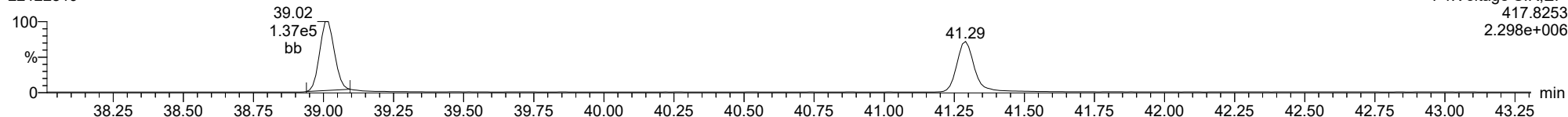
1234678-HpCDF

22122819



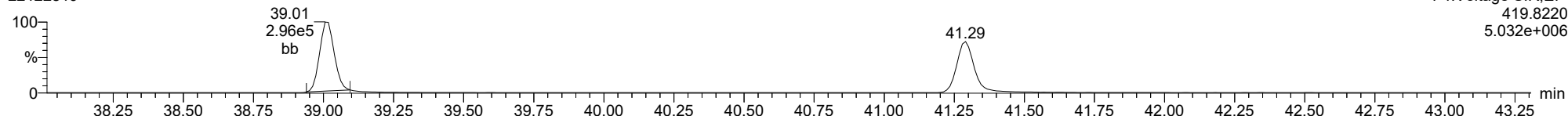
13C-1234678-HpCDF

22122819



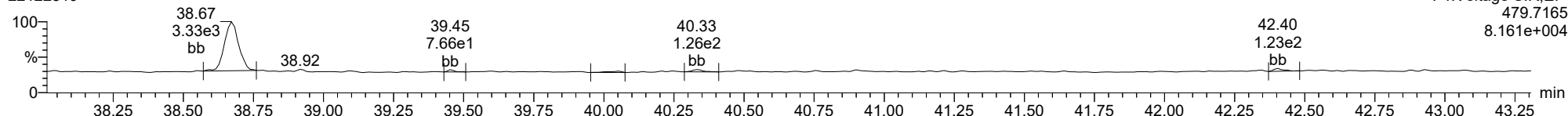
13C-1234678-HpCDF

22122819



FUNCTION4 NCDPE

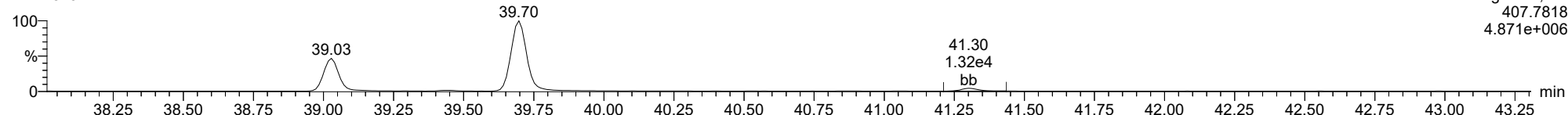
22122819



ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

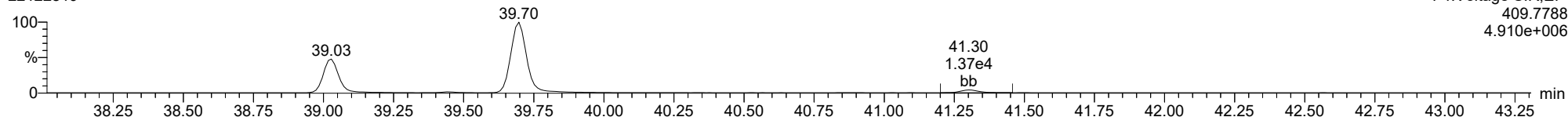
**1234789-HpCDF**

22122819



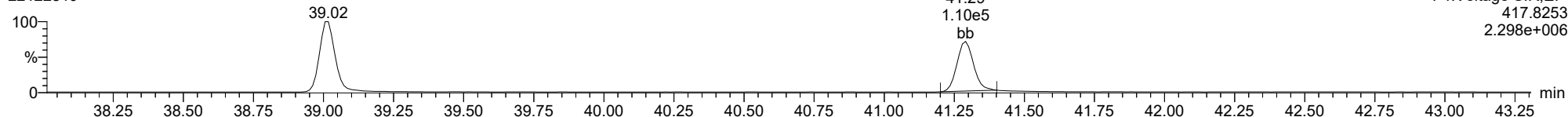
**1234789-HpCDF**

22122819



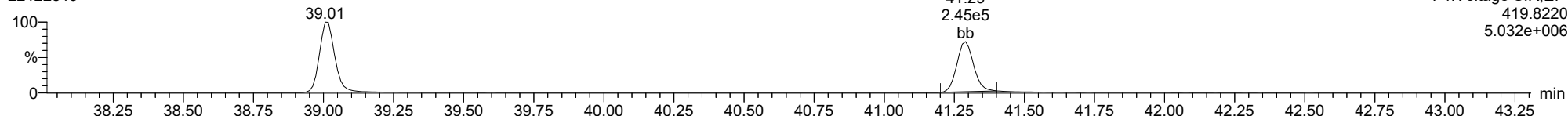
**13C-1234789-HpCDF**

22122819



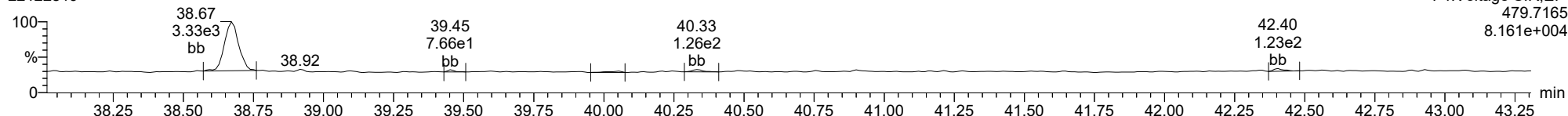
**13C-1234789-HpCDF**

22122819



**FUNCTION4 NCDPE**

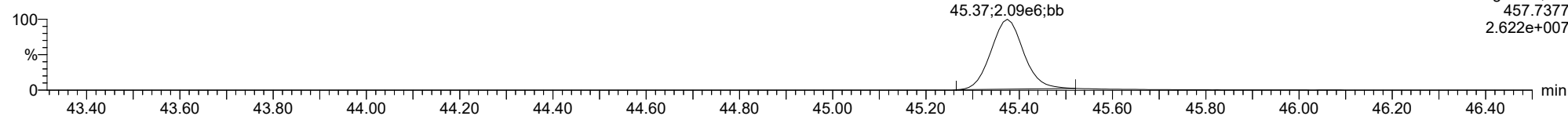
22122819



ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

**OCDD**

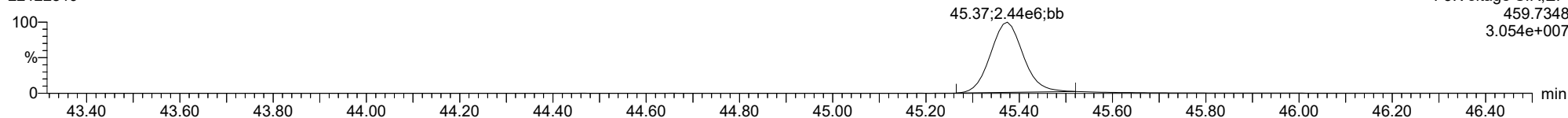
22122819



F5:Voltage SIR,El+  
457.7377  
2.622e+007

**OCDD**

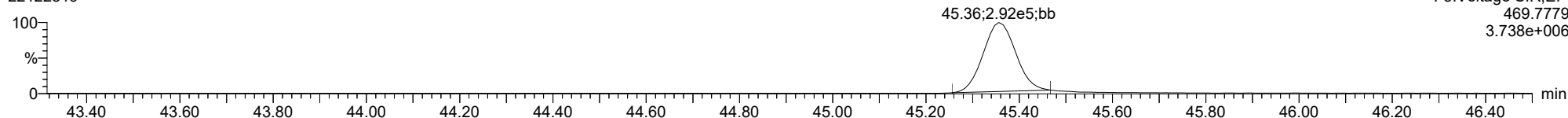
22122819



F5:Voltage SIR,El+  
459.7348  
3.054e+007

**13C-OCDD**

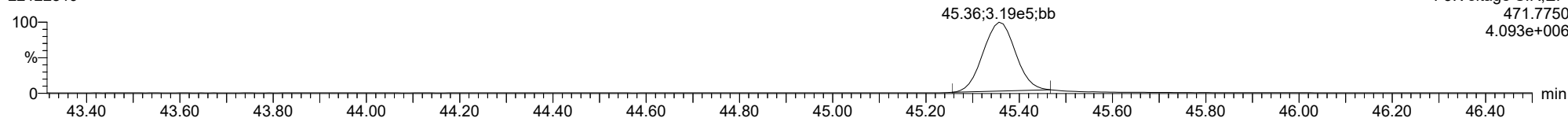
22122819



F5:Voltage SIR,El+  
469.7779  
3.738e+006

**13C-OCDD**

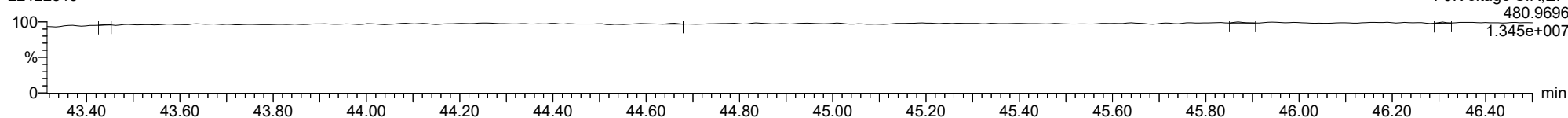
22122819



F5:Voltage SIR,El+  
471.7750  
4.093e+006

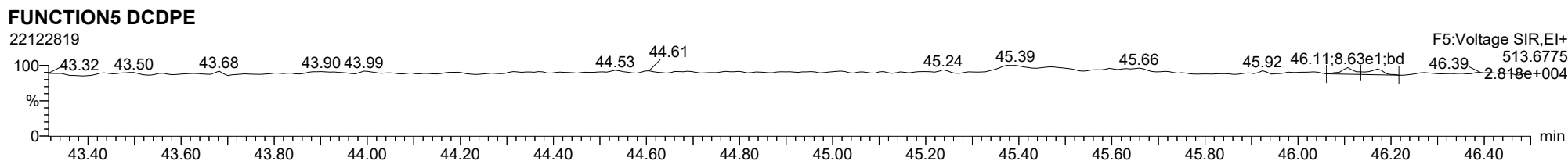
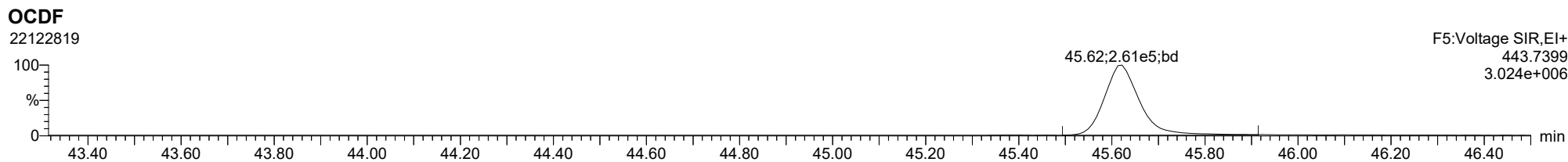
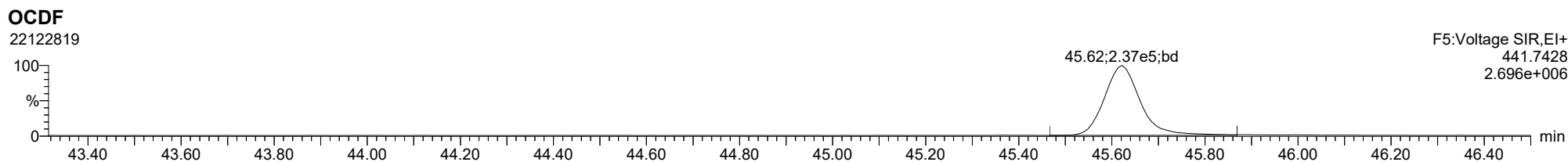
**FUNCTION5 PFK**

22122819



F5:Voltage SIR,El+  
480.9696  
1.345e+007

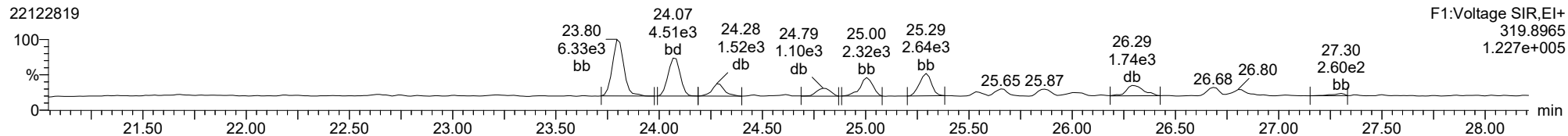
ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk



ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

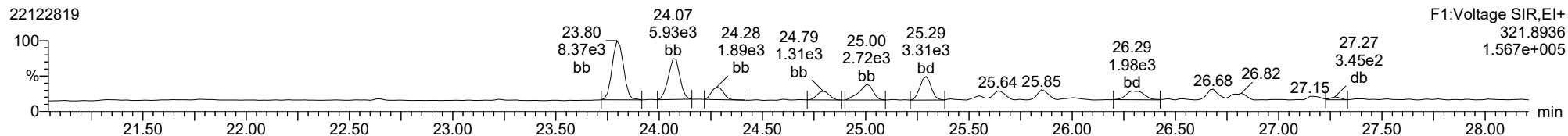
**Total-tetradoxins**

22122819



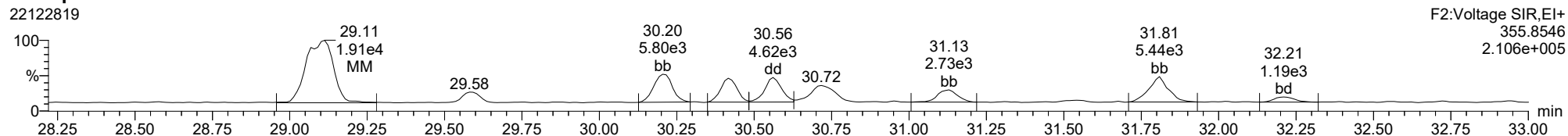
**Total-tetradoxins**

22122819



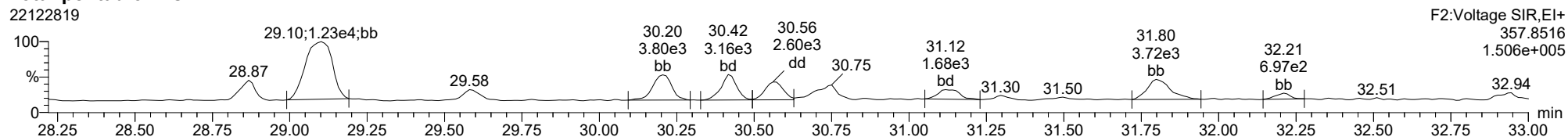
**Total-pentadoxins**

22122819



**Total-pentadoxins**

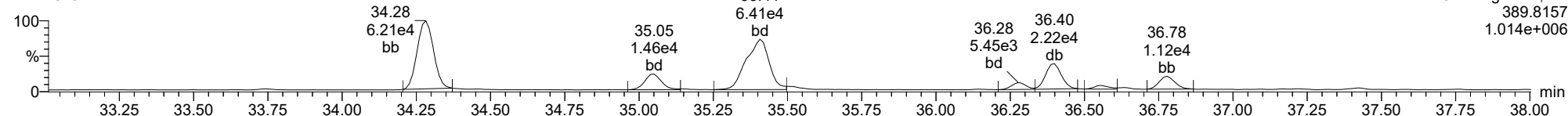
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ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

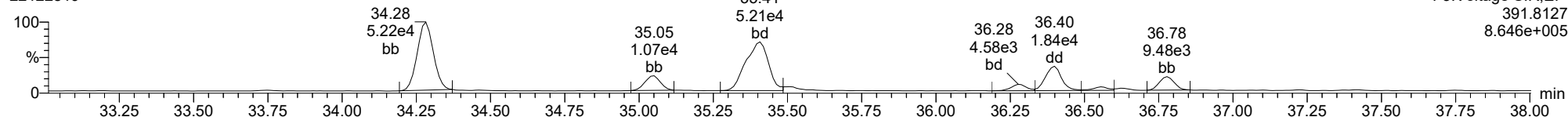
**Total-hexadioxins**

22122819



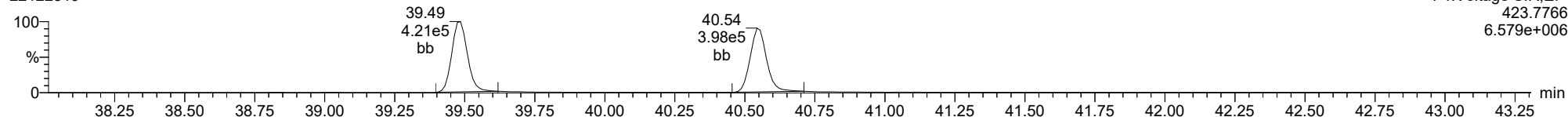
**Total-hexadioxins**

22122819



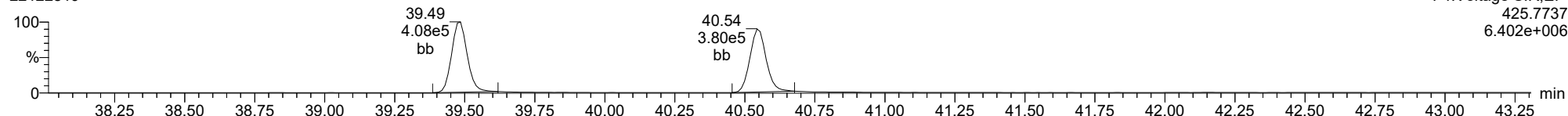
**Total-heptadioxins**

22122819



**Total-heptadioxins**

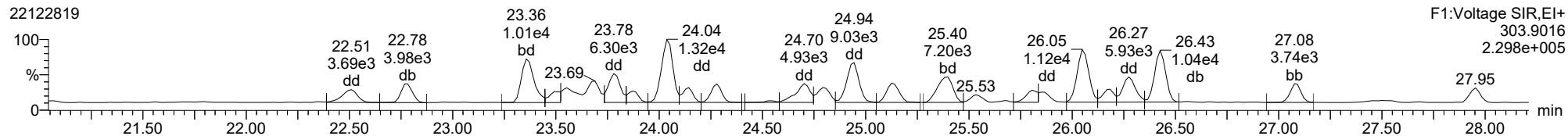
22122819



ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

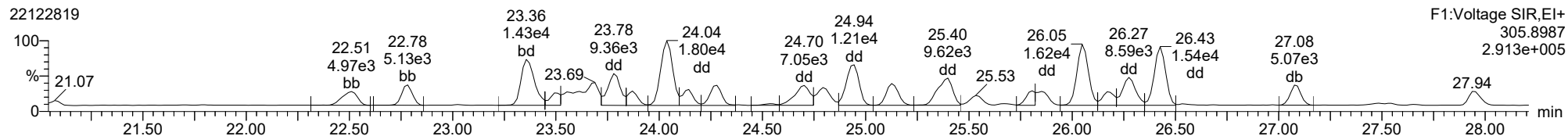
**Total-tetrafurans**

22122819



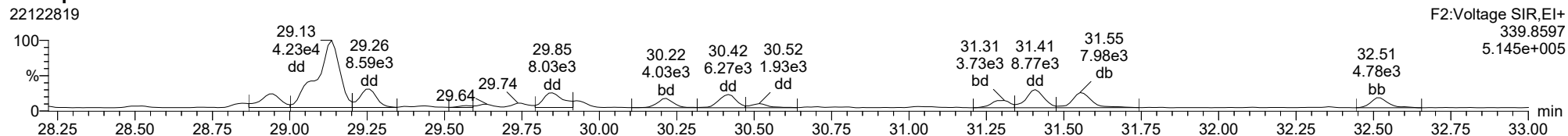
**Total-tetrafurans**

22122819



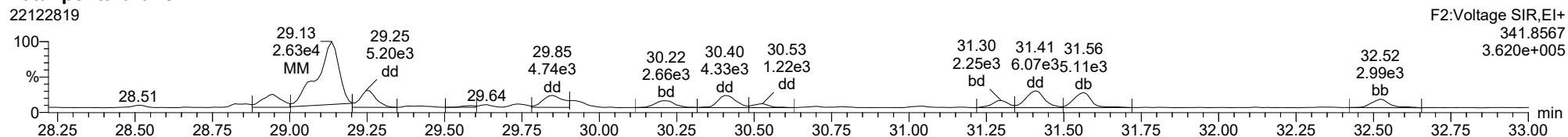
**Total-pentafurans**

22122819



**Total-pentafurans**

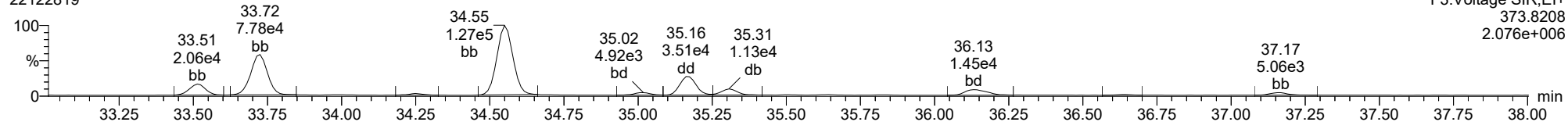
22122819



ID: 22L0246-07, Name: 22122819, Date: 29-Dec-2022, Time: 01:42:48, Conditions: AUTOSPEC01, User: pk

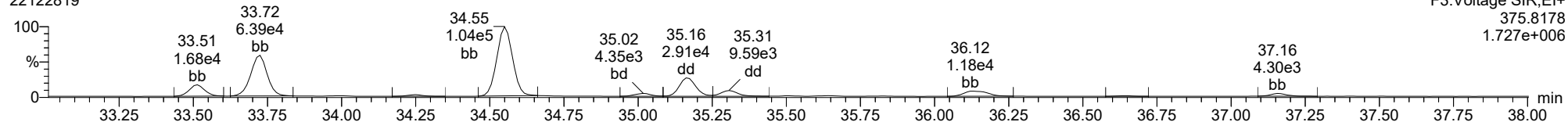
**Total-hexafurans**

22122819



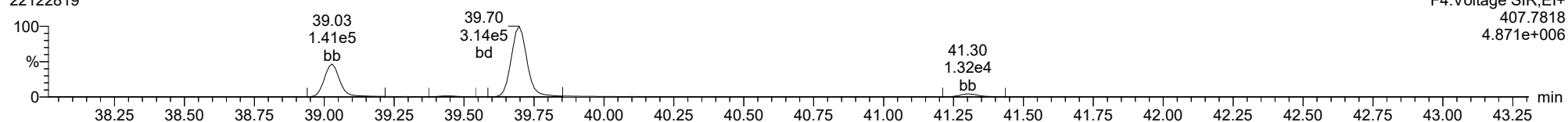
**Total-hexafurans**

22122819



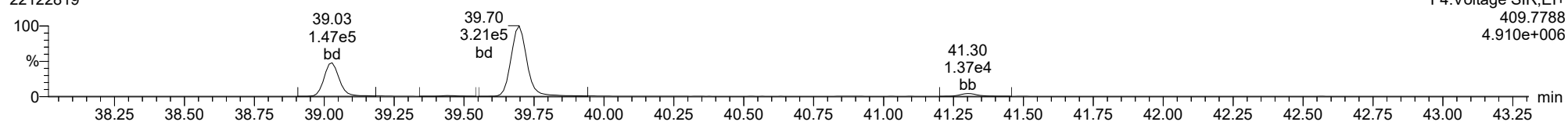
**Total-heptafurans**

22122819



**Total-heptafurans**

22122819







Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-08 A File ID: 22122820  
 Sampled: 12/09/22 08:40 Prepared: 12/19/22 15:18 Analyzed: 12/29/22 02:32  
 % Solids: 64.56 Preparation: EPA 1613 Initial/Final: 15.49 g Wet / 20 uL  
 Result Basis: Dry Sequence: SKL0339 Calibration: FC00062  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.710	0.655-0.886	0.111	1.00	5.25	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.476	0.655-0.886	0.076	1.00	0.331	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.727	1.318-1.783	0.195	1.00	1.32	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.512	1.318-1.783	0.182	1.00	3.67	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.480	1.318-1.783	0.191	1.00	1.24	ng/kg	
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.251	1.054-1.426	0.132	1.00	14.9	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.339	1.054-1.426	0.139	1.00	4.05	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.169	1.054-1.426	0.134	1.00	5.43	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.253	1.054-1.426	0.163	1.00	2.89	ng/kg	
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.020	1.054-1.426	0.205	1.00	0.810	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.292	1.054-1.426	0.205	1.00	4.66	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.235	1.054-1.426	0.222	1.00	2.22	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.966	0.893-1.208	0.160	1.00	48.2	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.978	0.893-1.208	0.234	1.00	4.33	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.030	0.893-1.208	0.322	2.50	92.1	ng/kg	B
39001-02-0	OCDF	1	0.906	0.757-1.024	0.236	2.50	66.5	ng/kg	B
3268-87-9	OCDD	1	0.866	0.757-1.024	0.793	10.0	749	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	53.1	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	5.55	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	85.6	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	7.78	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	106	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	30.4	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	140	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	177	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 8.42  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 8.42



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-08</u>
Sampled:	<u>12/09/22 08:40</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>64.56</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SKL0339</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>22122820</u>
		Analyzed:	<u>12/29/22 02:32</u>
		Initial/Final:	<u>15.49 g / 20 uL</u>
		Calibration:	<u>FC00062</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.756	0.655-0.886	0.118	75.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.767	0.655-0.886	0.141	89.9	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.558	1.318-1.783	0.194	74.9	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.566	1.318-1.783	0.204	76.8	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.604	1.318-1.783	0.141	80.8	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.497	0.434-0.587	0.319	80.2	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.516	0.434-0.587	0.300	77.5	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.506	0.434-0.587	0.342	82.5	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.495	0.434-0.587	0.398	89.0	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.283	1.054-1.426	0.155	79.9	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.279	1.054-1.426	0.142	74.8	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.452	0.374-0.506	0.226	71.6	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.461	0.374-0.506	0.292	75.3	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.073	0.893-1.208	0.241	89.3	23 - 140 %	
13C12-OCDD		0.930	0.757-1.024	0.358	86.4	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.043	99.9	35 - 197 %	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:55:05 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
 Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.063	1.001	9.149e3	1.289e4	0.985	0.710	0.770	910	1499	1.39e5	1.89e5	152.8	126.0	NO	dd	bd	2.624
12378-PeCDF	30.216	1.001	2.641e3	1.530e3	0.906	1.727	1.550	1759	1443	4.10e4	2.08e4	23.3	14.4	NO	bb	bd	0.660
23478-PeCDF	31.553	1.000	7.549e3	4.994e3	1.008	1.512	1.550	1759	1443	1.14e5	7.21e4	64.6	50.0	NO	db	db	1.836
123478-HxCDF	35.174	1.001	2.368e4	1.892e4	1.045	1.251	1.240	1127	932	3.79e5	2.99e5	336.5	320.8	NO	dd	bd	7.440
234678-HxCDF	36.143	1.000	8.489e3	7.261e3	1.101	1.169	1.240	1127	932	9.72e4	8.31e4	86.2	89.2	NO	bb	bb	2.717
123678-HxCDF	35.307	1.001	6.671e3	4.981e3	1.019	1.339	1.240	1127	932	1.02e5	8.26e4	90.8	88.7	NO	dd	dd	2.023
123789-HxCDF	37.157	0.999	3.899e3	3.113e3	0.992	1.253	1.240	1127	932	5.62e4	5.14e4	49.9	55.2	NO	bb	bb	1.448
1234678-HpCDF	39.028	1.000	6.083e4	6.296e4	1.243	0.966	1.050	1157	1136	9.73e5	1.01e6	840.6	889.8	NO	bd	bd	24.096
1234789-HpCDF	41.301	1.000	4.282e3	4.379e3	1.192	0.978	1.050	1157	1136	6.10e4	5.80e4	52.7	51.1	NO	bd	bd	2.164
OCDF	45.622	1.006	5.640e4	6.224e4	1.303	0.906	0.890	850	891	6.41e5	7.12e5	754.1	799.1	NO	bd	bd	33.235
2378-TCDD	26.683	1.001	3.918e2	8.225e2	1.168	0.476	0.770	823	618	6.93e3	1.06e4	8.4	17.2	YES	bd	bd	0.165
12378-PeCDD	31.809	1.001	1.730e3	1.168e3	1.152	1.480	1.550	1088	1169	2.29e4	1.48e4	21.1	12.7	NO	bb	bd	0.621
123478-HxCDD	36.277	1.000	9.281e2	9.101e2	0.934	1.020	1.240	1395	1202	1.68e4	1.76e4	12.0	14.6	YES	bd	bd	0.405
123678-HxCDD	36.399	1.001	6.214e3	4.810e3	0.950	1.292	1.240	1395	1202	1.02e5	7.71e4	73.0	64.2	NO	db	db	2.332
123789-HxCDD	36.778	1.011	2.632e3	2.131e3	0.873	1.235	1.240	1395	1202	4.36e4	3.90e4	31.2	32.4	NO	bd	bb	1.110
1234678-HpCDD	40.544	1.000	9.596e4	9.319e4	1.268	1.030	1.050	1746	1648	1.45e6	1.38e6	829.5	837.6	NO	bb	bd	46.060
OCDD	45.375	1.000	5.189e5	5.994e5	1.089	0.866	0.890	3491	1404	6.26e6	7.18e6	1792.2	5116.3	NO	bb	bb	374.697
13C-2378-TCDF	26.033	1.007	3.673e5	4.856e5	1.751	0.756	0.770	1820	1635	5.69e6	7.45e6	3127.1	4559.8	NO	bb	bb	75.364
13C-12378-PeCDF	30.193	1.168	4.249e5	2.727e5	1.442	1.558	1.550	2531	2133	6.62e6	4.27e6	2617.1	2001.1	NO	bb	bb	74.873
13C-23478-PeCDF	31.542	1.220	4.139e5	2.642e5	1.366	1.566	1.550	2531	2133	6.38e6	4.10e6	2522.9	1920.7	NO	bb	bb	76.828
13C-123478-HxCDF	35.151	0.956	1.818e5	3.660e5	1.095	0.497	0.510	1569	4064	2.96e6	5.95e6	1888.3	1463.6	NO	bd	bd	80.208
13C-123678-HxCDF	35.285	0.960	1.923e5	3.726e5	1.168	0.516	0.510	1569	4064	2.97e6	5.75e6	1892.2	1415.8	NO	db	db	77.549
13C-234678-HxCDF	36.154	0.983	1.768e5	3.496e5	1.023	0.506	0.510	1569	4064	2.81e6	5.59e6	1791.7	1375.4	NO	bb	bb	82.500
13C-123789-HxCDF	37.179	1.011	1.616e5	3.265e5	0.879	0.495	0.510	1569	4064	2.52e6	5.10e6	1609.2	1254.1	NO	bb	bb	89.047
13C-1234678-HpCDF	39.017	1.061	1.286e5	2.847e5	0.925	0.452	0.440	1612	1749	2.16e6	4.66e6	1338.4	2665.6	NO	bb	bb	71.572
13C-1234789-HpCDF	41.290	1.123	1.059e5	2.298e5	0.715	0.461	0.440	1612	1749	1.55e6	3.32e6	963.6	1898.7	NO	bb	bb	75.276
13C-1234-TCDD	25.851	0.000	2.818e5	3.645e5	1.000	0.773	0.770	1622	931	4.37e6	5.59e6	2695.9	6002.6	NO	bb	bb	100.000
13C-2378-TCDD	26.668	1.032	2.728e5	3.557e5	1.081	0.767	0.770	1622	931	4.25e6	5.48e6	2618.2	5886.4	NO	bb	bb	89.932
13C-12378-PeCDD	31.787	1.230	2.497e5	1.557e5	0.776	1.604	1.550	981	855	3.80e6	2.40e6	3875.2	2805.8	NO	bb	bb	80.809
13C-123478-HxCDD	36.265	0.986	2.730e5	2.128e5	0.975	1.283	1.240	1595	842	4.57e6	3.56e6	2864.8	4228.7	NO	bd	bd	79.885
13C-123678-HxCDD	36.377	0.989	2.792e5	2.183e5	1.067	1.279	1.240	1595	842	4.48e6	3.58e6	2811.5	4250.0	NO	db	db	74.776
13C-1234678-HpCDD	40.533	1.102	1.676e5	1.562e5	0.582	1.073	1.050	1129	1132	2.58e6	2.47e6	2287.9	2182.1	NO	bb	bb	89.252
13C-OCDD	45.356	1.234	2.640e5	2.840e5	0.509	0.930	0.890	1581	1349	3.27e6	3.54e6	2071.2	2626.9	NO	bb	bb	172.722
13C-123789-HxCDD	36.767	0.000	3.537e5	2.701e5	1.000	1.310	1.240	1595	842	5.48e6	4.32e6	3435.8	5131.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.683	1.032	2.892e5	1.120				802		4.39e6		5480.3			bb		39.951

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:55:05 Pacific Standard Time

ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.510	0.865	2.976e3	5.020e3	1.300	0.593	0.770	910	1499	3.23e4	5.07e4	35.5	33.8	YES	bb	bb	0.721
1289-TCDF					0.931		0.770	910	1499								
13468-PECDF					1.308		1.550	748	1117								
12389-PECDF					0.860		1.550	1759	1443								
123468-HXCDF	33.514	0.953	1.389e4	1.110e4	1.156	1.252	1.240	1127	932	2.19e5	1.76e5	194.6	189.0	NO	bb	bb	3.945
1368-TCDD	23.795	0.892	3.842e3	4.541e3	1.151	0.846	0.770	823	618	5.56e4	6.95e4	67.5	112.4	NO	bd	bd	1.159
1289-TCDD	27.288	1.023	1.739e2	1.927e2	0.950	0.902	0.770	823	618	3.62e3	4.10e3	4.4	6.6	YES	bb	bb	0.061
12479-PECDD	29.102	0.916	7.165e3	4.824e3	2.164	1.485	1.550	1088	1169	7.09e4	4.73e4	65.2	40.5	NO	bb	bb	1.366
12389-PECDD	32.210	1.013	6.187e2	3.121e2	1.371	1.982	1.550	1088	1169	1.01e4	5.57e3	9.2	4.8	YES	bb	bb	0.167
124679-HXCDD	34.282	0.945	1.566e4	1.275e4	1.153	1.228	1.240	1395	1202	2.58e5	2.15e5	184.6	178.5	NO	bb	bb	5.074
1234679-HPCDD	39.485	0.974	1.025e5	9.885e4	1.473	1.037	1.050	1746	1648	1.68e6	1.62e6	962.6	981.6	NO	bb	bb	42.195
Total-tetrafurans			1.016e5		1.072			910		1.46e6							26.552
Total-penta1			7.904e4					748		1.20e6							20.519
Total-pentafurans			8.659e4		0.924			1759		1.19e6							22.303
Total-hexafurans			1.667e5		1.063			1127		2.54e6							52.884
Total-heptafurans			1.648e5		1.218			1157		2.59e6							69.927
Total-Furans			6.576e5		1.090			910		9.66e6							226.059
Total-tetradoxins			8.649e3		1.090			823		1.30e5							2.776
Total-pentadoxins			1.621e4		1.562			1088		2.03e5							3.889
Total-hexadoxins			4.233e4		0.978			1395		6.12e5							15.207
Total-heptadoxins			1.985e5		1.371			1746		3.13e6							88.255
Total-Dioxins			7.845e5		1.207			823		1.03e7							484.824
Total-TEQ			1.442e6					823		2.00e7							710.883
FUNCTION1 PFK			1.090e7					235888		8.18e7							
FUNCTION2 PFK			1.427e5					128994		2.70e6							0.000
FUNCTION3 PFK			3.849e5					170490		4.87e6							0.000
FUNCTION4 PFK			0.000e0					182544		0.00e0							
FUNCTION5 PFK			4.158e4					108147		1.67e6							
FUNCTION1 HXCD...			2.927e4					667		4.65e5							0.000
FUNCTION1 HPCD...			7.935e2					756		1.47e4							0.000
FUNCTION2 HPCD...			3.441e3					699		5.18e4							0.000
FUNCTION3 OCDPE			6.785e2					701		1.37e4							0.000
FUNCTION4 NCDPE			3.841e3					789		5.81e4							0.000
FUNCTION5 DCDPE			0.000e0					487		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:05 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.70	3.665e3	4.489e3	1.072	0.82	0.77	49.0	YES	NO	dd	bd	0.892
2	Total-tetrafurans	24.28	2.251e3	3.259e3	1.072	0.69	0.77	35.5	YES	NO	db	db	0.602
3	Total-tetrafurans	24.13	1.175e3	1.755e3	1.072	0.67	0.77	21.4	YES	NO	dd	dd	0.320
4	Total-tetrafurans	24.04	1.545e4	2.087e4	1.072	0.74	0.77	240.4	YES	NO	dd	dd	3.972
5	Total-tetrafurans	23.78	5.991e3	8.632e3	1.072	0.69	0.77	97.2	YES	NO	dd	dd	1.599
6	Total-tetrafurans	23.67	2.607e3	3.979e3	1.072	0.66	0.77	43.0	YES	NO	dd	dd	0.720
7	Total-tetrafurans	23.36	1.493e4	2.025e4	1.072	0.74	0.77	244.2	YES	NO	bd	bd	3.847
8	Total-tetrafurans	22.78	2.881e3	4.186e3	1.072	0.69	0.77	49.6	YES	NO	bb	bb	0.773
9	Total-tetrafurans	27.08	3.249e3	4.317e3	1.072	0.75	0.77	53.9	YES	NO	db	bb	0.827
10	Total-tetrafurans	26.43	1.048e4	1.380e4	1.072	0.76	0.77	178.3	YES	NO	db	db	2.655
11	Total-tetrafurans	26.27	3.384e3	4.460e3	1.072	0.76	0.77	51.5	YES	NO	dd	dd	0.858
12	Total-tetrafurans	26.17	1.247e3	1.771e3	1.072	0.70	0.77	20.1	YES	NO	dd	dd	0.330
13	2378-TCDF	26.06	9.149e3	1.289e4	0.985	0.71	0.77	152.8	YES	NO	dd	bd	2.624
14	Total-tetrafurans	25.85	2.473e3	3.364e3	1.072	0.74	0.77	27.2	YES	NO	dd	db	0.638
15	Total-tetrafurans	25.53	1.388e3	1.616e3	1.072	0.86	0.77	19.2	YES	NO	dd	dd	0.329
16	Total-tetrafurans	25.40	5.556e3	7.830e3	1.072	0.71	0.77	74.0	YES	NO	bd	bd	1.464
17	Total-tetrafurans	25.13	3.462e3	4.704e3	1.072	0.74	0.77	56.2	YES	NO	db	db	0.893
18	Total-tetrafurans	24.94	9.786e3	1.397e4	1.072	0.70	0.77	153.4	YES	NO	dd	dd	2.598
19	Total-tetrafurans	24.79	2.514e3	3.071e3	1.072	0.82	0.77	36.4	YES	NO	dd	dd	0.611

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.47	7.904e4	5.222e4		1.51	1.55	1608.4	YES	NO	bb	bb	20.519

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.95	5.479e3	3.985e3	0.924	1.38	1.55	39.5	YES	NO	dd	dd	1.488
2	Total-pentafurans	28.52	7.875e2	5.479e2	0.924	1.44	1.55	6.9	YES	NO	bb	bb	0.210
3	Total-pentafurans	31.41	1.014e4	6.269e3	0.924	1.62	1.55	87.9	YES	NO	dd	dd	2.581
4	Total-pentafurans	31.29	2.121e3	1.323e3	0.924	1.60	1.55	17.9	YES	NO	bd	bd	0.542
5	Total-pentafurans	31.03	8.526e2	5.213e2	0.924	1.64	1.55	6.4	YES	NO	bb	bb	0.216
6	Total-pentafurans	30.52	1.213e3	8.870e2	0.924	1.37	1.55	10.5	YES	NO	dd	db	0.330
7	Total-pentafurans	30.42	6.021e3	4.122e3	0.924	1.46	1.55	53.1	YES	NO	bd	dd	1.595
8	12378-PeCDF	30.22	2.641e3	1.530e3	0.906	1.73	1.55	23.3	YES	NO	bb	bd	0.660
9	Total-pentafurans	29.26	5.185e3	3.173e3	0.924	1.63	1.55	49.8	YES	NO	dd	db	1.314
10	Total-pentafurans	32.52	3.488e3	2.129e3	0.924	1.64	1.55	28.9	YES	NO	db	bb	0.883
11	23478-PeCDF	31.55	7.549e3	4.994e3	1.008	1.51	1.55	64.6	YES	NO	db	db	1.836
12	Total-pentafurans	29.14	4.110e4	2.660e4	0.924	1.55	1.55	288.0	YES	NO	MM	MM	10.647

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	34.24	1.450e3	1.307e3	1.063	1.11	1.24	19.3	YES	NO	bb	bb	0.488
2	Total-hexafurans	33.73	4.356e4	3.635e4	1.063	1.20	1.24	571.0	YES	NO	bb	bb	14.137
3	123468-HxCDF	33.51	1.389e4	1.110e4	1.156	1.25	1.24	194.6	YES	NO	bb	bb	3.945
4	123789-HxCDF	37.16	3.899e3	3.113e3	0.992	1.25	1.24	49.9	YES	NO	bb	bb	1.448
5	234678-HxCDF	36.14	8.489e3	7.261e3	1.101	1.17	1.24	86.2	YES	NO	bb	bb	2.717
6	123678-HxCDF	35.31	6.671e3	4.981e3	1.019	1.34	1.24	90.8	YES	NO	dd	dd	2.023
7	123478-HxCDF	35.17	2.368e4	1.892e4	1.045	1.25	1.24	336.5	YES	NO	dd	bd	7.440
8	Total-hexafurans	35.02	3.059e3	2.184e3	1.063	1.40	1.24	42.1	YES	NO	bd	bb	0.928
9	Total-hexafurans	34.55	6.198e4	4.970e4	1.063	1.25	1.24	861.7	YES	NO	bb	bb	19.758

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	39.03	6.083e4	6.296e4	1.243	0.97	1.05	840.6	YES	NO	bd	bd	24.096
2	1234789-HpCDF	41.30	4.282e3	4.379e3	1.192	0.98	1.05	52.7	YES	NO	bd	bd	2.164
3	Total-heptafurans	39.70	9.871e4	9.859e4	1.218	1.00	1.05	1326.9	YES	NO	bd	bd	43.269
4	Total-heptafurans	39.45	9.690e2	8.452e2	1.218	1.15	1.05	13.9	YES	NO	bb	bb	0.398

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.70	3.665e3	4.489e3	1.072	0.82	0.77	49.0	YES	NO	dd	bd	0.892
2	Total-tetrafurans	24.28	2.251e3	3.259e3	1.072	0.69	0.77	35.5	YES	NO	db	db	0.602
3	Total-tetrafurans	24.13	1.175e3	1.755e3	1.072	0.67	0.77	21.4	YES	NO	dd	dd	0.320
4	Total-tetrafurans	24.04	1.545e4	2.087e4	1.072	0.74	0.77	240.4	YES	NO	dd	dd	3.972
5	Total-tetrafurans	23.78	5.991e3	8.632e3	1.072	0.69	0.77	97.2	YES	NO	dd	dd	1.599
6	Total-tetrafurans	23.67	2.607e3	3.979e3	1.072	0.66	0.77	43.0	YES	NO	dd	dd	0.720
7	Total-tetrafurans	23.36	1.493e4	2.025e4	1.072	0.74	0.77	244.2	YES	NO	bd	bd	3.847
8	Total-tetrafurans	22.78	2.881e3	4.186e3	1.072	0.69	0.77	49.6	YES	NO	bb	bb	0.773
9	Total-Furans	27.95	2.488e3	3.468e3	1.090	0.72	0.77	45.0	YES	NO	bb	bb	0.641
10	Total-tetrafurans	27.08	3.249e3	4.317e3	1.072	0.75	0.77	53.9	YES	NO	db	bb	0.827
11	Total-tetrafurans	26.43	1.048e4	1.380e4	1.072	0.76	0.77	178.3	YES	NO	db	db	2.655
12	Total-tetrafurans	26.27	3.384e3	4.460e3	1.072	0.76	0.77	51.5	YES	NO	dd	dd	0.858
13	Total-tetrafurans	26.17	1.247e3	1.771e3	1.072	0.70	0.77	20.1	YES	NO	dd	dd	0.330
14	2378-TCDF	26.06	9.149e3	1.289e4	0.985	0.71	0.77	152.8	YES	NO	dd	bd	2.624
15	Total-tetrafurans	25.85	2.473e3	3.364e3	1.072	0.74	0.77	27.2	YES	NO	dd	db	0.638
16	Total-tetrafurans	25.53	1.388e3	1.616e3	1.072	0.86	0.77	19.2	YES	NO	dd	dd	0.329
17	Total-tetrafurans	25.40	5.556e3	7.830e3	1.072	0.71	0.77	74.0	YES	NO	bd	bd	1.464
18	Total-tetrafurans	25.13	3.462e3	4.704e3	1.072	0.74	0.77	56.2	YES	NO	db	db	0.893
19	Total-tetrafurans	24.94	9.786e3	1.397e4	1.072	0.70	0.77	153.4	YES	NO	dd	dd	2.598
20	Total-tetrafurans	24.79	2.514e3	3.071e3	1.072	0.82	0.77	36.4	YES	NO	dd	dd	0.611
21	Total-pentafurans	28.95	5.479e3	3.985e3	0.924	1.38	1.55	39.5	YES	NO	dd	dd	1.488
22	Total-pentafurans	28.52	7.875e2	5.479e2	0.924	1.44	1.55	6.9	YES	NO	bb	bb	0.210
23	Total-pentafurans	31.41	1.014e4	6.269e3	0.924	1.62	1.55	87.9	YES	NO	dd	dd	2.581
24	Total-pentafurans	31.29	2.121e3	1.323e3	0.924	1.60	1.55	17.9	YES	NO	bd	bd	0.542
25	Total-pentafurans	31.03	8.526e2	5.213e2	0.924	1.64	1.55	6.4	YES	NO	bb	bb	0.216
26	Total-pentafurans	30.52	1.213e3	8.870e2	0.924	1.37	1.55	10.5	YES	NO	dd	db	0.330
27	Total-pentafurans	30.42	6.021e3	4.122e3	0.924	1.46	1.55	53.1	YES	NO	bd	dd	1.595
28	12378-PeCDF	30.22	2.641e3	1.530e3	0.906	1.73	1.55	23.3	YES	NO	bb	bd	0.660
29	Total-pentafurans	29.26	5.185e3	3.173e3	0.924	1.63	1.55	49.8	YES	NO	dd	db	1.314
30	Total-pentafurans	32.52	3.488e3	2.129e3	0.924	1.64	1.55	28.9	YES	NO	db	bb	0.883
31	23478-PeCDF	31.55	7.549e3	4.994e3	1.008	1.51	1.55	64.6	YES	NO	db	db	1.836
32	Total-hexafurans	34.24	1.450e3	1.307e3	1.063	1.11	1.24	19.3	YES	NO	bb	bb	0.488
33	Total-hexafurans	33.73	4.356e4	3.635e4	1.063	1.20	1.24	571.0	YES	NO	bb	bb	14.137
34	123468-HxCDF	33.51	1.389e4	1.110e4	1.156	1.25	1.24	194.6	YES	NO	bb	bb	3.945
35	123789-HxCDF	37.16	3.899e3	3.113e3	0.992	1.25	1.24	49.9	YES	NO	bb	bb	1.448
36	234678-HxCDF	36.14	8.489e3	7.261e3	1.101	1.17	1.24	86.2	YES	NO	bb	bb	2.717
37	123678-HxCDF	35.31	6.671e3	4.981e3	1.019	1.34	1.24	90.8	YES	NO	dd	dd	2.023

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	123478-HxCDF	35.17	2.368e4	1.892e4	1.045	1.25	1.24	336.5	YES	NO	dd	bd	7.440
39	Total-hexafurans	35.02	3.059e3	2.184e3	1.063	1.40	1.24	42.1	YES	NO	bd	bb	0.928
40	Total-hexafurans	34.55	6.198e4	4.970e4	1.063	1.25	1.24	861.7	YES	NO	bb	bb	19.758
41	1234678-HpCDF	39.03	6.083e4	6.296e4	1.243	0.97	1.05	840.6	YES	NO	bd	bd	24.096
42	1234789-HpCDF	41.30	4.282e3	4.379e3	1.192	0.98	1.05	52.7	YES	NO	bd	bd	2.164
43	Total-heptafurans	39.70	9.871e4	9.859e4	1.218	1.00	1.05	1326.9	YES	NO	bd	bd	43.269
44	Total-heptafurans	39.45	9.690e2	8.452e2	1.218	1.15	1.05	13.9	YES	NO	bb	bb	0.398
45	OCDF	45.62	5.640e4	6.224e4	1.303	0.91	0.89	754.1	YES	NO	bd	bd	33.235
46	Total-penta1	27.47	7.904e4	5.222e4		1.51	1.55	1608.4	YES	NO	bb	bb	20.519
47	Total-pentafurans	29.14	4.110e4	2.660e4	0.924	1.55	1.55	288.0	YES	NO	MM	MM	10.647

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.66	4.420e2	5.993e2	1.090	0.74	0.77	10.1	YES	NO	bb	db	0.152
2	Total-tetradioxins	25.29	1.405e3	1.905e3	1.090	0.74	0.77	23.8	YES	NO	bb	bb	0.483
3	Total-tetradioxins	24.29	4.658e2	5.690e2	1.090	0.82	0.77	10.4	YES	NO	bb	db	0.151
4	Total-tetradioxins	24.07	2.495e3	3.194e3	1.090	0.78	0.77	45.7	YES	NO	bb	dd	0.831
5	1368-TCDD	23.80	3.842e3	4.541e3	1.151	0.85	0.77	67.5	YES	NO	bd	bd	1.159

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.81	1.730e3	1.168e3	1.152	1.48	1.55	21.1	YES	NO	bb	bd	0.621
2	Total-pentadioxins	31.14	1.202e3	7.987e2	1.562	1.51	1.55	12.1	YES	NO	bb	bb	0.316
3	Total-pentadioxins	30.56	2.253e3	1.465e3	1.562	1.54	1.55	28.7	YES	NO	dd	dd	0.587
4	Total-pentadioxins	30.22	2.991e3	1.944e3	1.562	1.54	1.55	45.5	YES	NO	bb	bb	0.779
5	Total-pentadioxins	29.58	8.688e2	5.284e2	1.562	1.64	1.55	14.1	YES	NO	bb	bb	0.221
6	12479-PECDD	29.10	7.165e3	4.824e3	2.164	1.49	1.55	65.2	YES	NO	bb	bb	1.366



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	34.28	1.566e4	1.275e4	1.153	1.23	1.24	184.6	YES	NO	bb	bb	5.074
2	123789-HxCDD	36.78	2.632e3	2.131e3	0.873	1.24	1.24	31.2	YES	NO	bd	bb	1.110
3	Total-hexadioxins	36.56	4.817e2	4.526e2	0.978	1.06	1.24	6.7	YES	NO	bb	bb	0.194
4	123678-HxCDD	36.40	6.214e3	4.810e3	0.950	1.29	1.24	73.0	YES	NO	db	db	2.332
5	Total-hexadioxins	35.41	1.734e4	1.389e4	0.978	1.25	1.24	143.4	YES	NO	dd	bb	6.497

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.54	9.596e4	9.319e4	1.268	1.03	1.05	829.5	YES	NO	bb	bd	46.060
2	1234679-HPCDD	39.49	1.025e5	9.885e4	1.473	1.04	1.05	962.6	YES	NO	bb	bb	42.195

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.66	4.420e2	5.993e2	1.090	0.74	0.77	10.1	YES	NO	bb	db	0.152
2	Total-tetradioxins	25.29	1.405e3	1.905e3	1.090	0.74	0.77	23.8	YES	NO	bb	bb	0.483
3	Total-tetradioxins	24.29	4.658e2	5.690e2	1.090	0.82	0.77	10.4	YES	NO	bb	db	0.151
4	Total-tetradioxins	24.07	2.495e3	3.194e3	1.090	0.78	0.77	45.7	YES	NO	bb	dd	0.831
5	1368-TCDD	23.80	3.842e3	4.541e3	1.151	0.85	0.77	67.5	YES	NO	bd	bd	1.159
6	12378-PeCDD	31.81	1.730e3	1.168e3	1.152	1.48	1.55	21.1	YES	NO	bb	bd	0.621
7	Total-pentadioxins	31.14	1.202e3	7.987e2	1.562	1.51	1.55	12.1	YES	NO	bb	bb	0.316
8	Total-pentadioxins	30.56	2.253e3	1.465e3	1.562	1.54	1.55	28.7	YES	NO	dd	dd	0.587
9	Total-pentadioxins	30.22	2.991e3	1.944e3	1.562	1.54	1.55	45.5	YES	NO	bb	bb	0.779
10	Total-pentadioxins	29.58	8.688e2	5.284e2	1.562	1.64	1.55	14.1	YES	NO	bb	bb	0.221
11	12479-PECDD	29.10	7.165e3	4.824e3	2.164	1.49	1.55	65.2	YES	NO	bb	bb	1.366
12	124679-HxCDD	34.28	1.566e4	1.275e4	1.153	1.23	1.24	184.6	YES	NO	bb	bb	5.074
13	123789-HxCDD	36.78	2.632e3	2.131e3	0.873	1.24	1.24	31.2	YES	NO	bd	bb	1.110
14	Total-hexadioxins	36.56	4.817e2	4.526e2	0.978	1.06	1.24	6.7	YES	NO	bb	bb	0.194
15	123678-HxCDD	36.40	6.214e3	4.810e3	0.950	1.29	1.24	73.0	YES	NO	db	db	2.332
16	Total-hexadioxins	35.41	1.734e4	1.389e4	0.978	1.25	1.24	143.4	YES	NO	dd	bb	6.497
17	1234678-HpCDD	40.54	9.596e4	9.319e4	1.268	1.03	1.05	829.5	YES	NO	bb	bd	46.060
18	1234679-HPCDD	39.49	1.025e5	9.885e4	1.473	1.04	1.05	962.6	YES	NO	bb	bb	42.195
19	OCDD	45.37	5.189e5	5.994e5	1.089	0.87	0.89	1792.2	YES	NO	bb	bb	374.697

## Quantify Totals Report MassLynx V4.1 SCN97

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Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.70	3.665e3	4.489e3	1.072	0.82	0.77	49.0	YES	NO	dd	bd	0.892
2	Total-tetrafurans	24.28	2.251e3	3.259e3	1.072	0.69	0.77	35.5	YES	NO	db	db	0.602
3	Total-tetrafurans	24.13	1.175e3	1.755e3	1.072	0.67	0.77	21.4	YES	NO	dd	dd	0.320
4	Total-tetrafurans	24.04	1.545e4	2.087e4	1.072	0.74	0.77	240.4	YES	NO	dd	dd	3.972
5	Total-tetrafurans	23.78	5.991e3	8.632e3	1.072	0.69	0.77	97.2	YES	NO	dd	dd	1.599
6	Total-tetrafurans	23.67	2.607e3	3.979e3	1.072	0.66	0.77	43.0	YES	NO	dd	dd	0.720
7	Total-tetrafurans	23.36	1.493e4	2.025e4	1.072	0.74	0.77	244.2	YES	NO	bd	bd	3.847
8	Total-tetrafurans	22.78	2.881e3	4.186e3	1.072	0.69	0.77	49.6	YES	NO	bb	bb	0.773
9	Total-Furans	27.95	2.488e3	3.468e3	1.090	0.72	0.77	45.0	YES	NO	bb	bb	0.641
10	Total-tetrafurans	27.08	3.249e3	4.317e3	1.072	0.75	0.77	53.9	YES	NO	db	bb	0.827
11	Total-tetrafurans	26.43	1.048e4	1.380e4	1.072	0.76	0.77	178.3	YES	NO	db	db	2.655
12	Total-tetrafurans	26.27	3.384e3	4.460e3	1.072	0.76	0.77	51.5	YES	NO	dd	dd	0.858
13	Total-tetrafurans	26.17	1.247e3	1.771e3	1.072	0.70	0.77	20.1	YES	NO	dd	dd	0.330
14	2378-TCDF	26.06	9.149e3	1.289e4	0.985	0.71	0.77	152.8	YES	NO	dd	bd	2.624
15	Total-tetrafurans	25.85	2.473e3	3.364e3	1.072	0.74	0.77	27.2	YES	NO	dd	db	0.638
16	Total-tetrafurans	25.53	1.388e3	1.616e3	1.072	0.86	0.77	19.2	YES	NO	dd	dd	0.329
17	Total-tetrafurans	25.40	5.556e3	7.830e3	1.072	0.71	0.77	74.0	YES	NO	bd	bd	1.464
18	Total-tetrafurans	25.13	3.462e3	4.704e3	1.072	0.74	0.77	56.2	YES	NO	db	db	0.893
19	Total-tetrafurans	24.94	9.786e3	1.397e4	1.072	0.70	0.77	153.4	YES	NO	dd	dd	2.598
20	Total-tetrafurans	24.79	2.514e3	3.071e3	1.072	0.82	0.77	36.4	YES	NO	dd	dd	0.611
21	Total-pentafurans	28.95	5.479e3	3.985e3	0.924	1.38	1.55	39.5	YES	NO	dd	dd	1.488
22	Total-pentafurans	28.52	7.875e2	5.479e2	0.924	1.44	1.55	6.9	YES	NO	bb	bb	0.210
23	Total-pentafurans	31.41	1.014e4	6.269e3	0.924	1.62	1.55	87.9	YES	NO	dd	dd	2.581
24	Total-pentafurans	31.29	2.121e3	1.323e3	0.924	1.60	1.55	17.9	YES	NO	bd	bd	0.542
25	Total-pentafurans	31.03	8.526e2	5.213e2	0.924	1.64	1.55	6.4	YES	NO	bb	bb	0.216
26	Total-pentafurans	30.52	1.213e3	8.870e2	0.924	1.37	1.55	10.5	YES	NO	dd	db	0.330
27	Total-pentafurans	30.42	6.021e3	4.122e3	0.924	1.46	1.55	53.1	YES	NO	bd	dd	1.595
28	12378-PeCDF	30.22	2.641e3	1.530e3	0.906	1.73	1.55	23.3	YES	NO	bb	bd	0.660
29	Total-pentafurans	29.26	5.185e3	3.173e3	0.924	1.63	1.55	49.8	YES	NO	dd	db	1.314
30	Total-pentafurans	32.52	3.488e3	2.129e3	0.924	1.64	1.55	28.9	YES	NO	db	bb	0.883
31	23478-PeCDF	31.55	7.549e3	4.994e3	1.008	1.51	1.55	64.6	YES	NO	db	db	1.836
32	Total-hexafurans	34.24	1.450e3	1.307e3	1.063	1.11	1.24	19.3	YES	NO	bb	bb	0.488
33	Total-hexafurans	33.73	4.356e4	3.635e4	1.063	1.20	1.24	571.0	YES	NO	bb	bb	14.137
34	123468-HxCDF	33.51	1.389e4	1.110e4	1.156	1.25	1.24	194.6	YES	NO	bb	bb	3.945
35	123789-HxCDF	37.16	3.899e3	3.113e3	0.992	1.25	1.24	49.9	YES	NO	bb	bb	1.448
36	234678-HxCDF	36.14	8.489e3	7.261e3	1.101	1.17	1.24	86.2	YES	NO	bb	bb	2.717
37	123678-HxCDF	35.31	6.671e3	4.981e3	1.019	1.34	1.24	90.8	YES	NO	dd	dd	2.023

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	123478-HxCDF	35.17	2.368e4	1.892e4	1.045	1.25	1.24	336.5	YES	NO	dd	bd	7.440
39	Total-hexafurans	35.02	3.059e3	2.184e3	1.063	1.40	1.24	42.1	YES	NO	bd	bb	0.928
40	Total-hexafurans	34.55	6.198e4	4.970e4	1.063	1.25	1.24	861.7	YES	NO	bb	bb	19.758
41	1234678-HpCDF	39.03	6.083e4	6.296e4	1.243	0.97	1.05	840.6	YES	NO	bd	bd	24.096
42	1234789-HpCDF	41.30	4.282e3	4.379e3	1.192	0.98	1.05	52.7	YES	NO	bd	bd	2.164
43	Total-heptafurans	39.70	9.871e4	9.859e4	1.218	1.00	1.05	1326.9	YES	NO	bd	bd	43.269
44	Total-heptafurans	39.45	9.690e2	8.452e2	1.218	1.15	1.05	13.9	YES	NO	bb	bb	0.398
45	OCDF	45.62	5.640e4	6.224e4	1.303	0.91	0.89	754.1	YES	NO	bd	bd	33.235
46	Total-penta1	27.47	7.904e4	5.222e4		1.51	1.55	1608.4	YES	NO	bb	bb	20.519
47	Total-pentafurans	29.14	4.110e4	2.660e4	0.924	1.55	1.55	288.0	YES	NO	MM	MM	10.647
48	Total-tetradioxins	25.66	4.420e2	5.993e2	1.090	0.74	0.77	10.1	YES	NO	bb	db	0.152
49	Total-tetradioxins	25.29	1.405e3	1.905e3	1.090	0.74	0.77	23.8	YES	NO	bb	bb	0.483
50	Total-tetradioxins	24.29	4.658e2	5.690e2	1.090	0.82	0.77	10.4	YES	NO	bb	db	0.151
51	Total-tetradioxins	24.07	2.495e3	3.194e3	1.090	0.78	0.77	45.7	YES	NO	bb	dd	0.831
52	1368-TCDD	23.80	3.842e3	4.541e3	1.151	0.85	0.77	67.5	YES	NO	bd	bd	1.159
53	12378-PeCDD	31.81	1.730e3	1.168e3	1.152	1.48	1.55	21.1	YES	NO	bb	bd	0.621
54	Total-pentadioxins	31.14	1.202e3	7.987e2	1.562	1.51	1.55	12.1	YES	NO	bb	bb	0.316
55	Total-pentadioxins	30.56	2.253e3	1.465e3	1.562	1.54	1.55	28.7	YES	NO	dd	dd	0.587
56	Total-pentadioxins	30.22	2.991e3	1.944e3	1.562	1.54	1.55	45.5	YES	NO	bb	bb	0.779
57	Total-pentadioxins	29.58	8.688e2	5.284e2	1.562	1.64	1.55	14.1	YES	NO	bb	bb	0.221
58	12479-PECDD	29.10	7.165e3	4.824e3	2.164	1.49	1.55	65.2	YES	NO	bb	bb	1.366
59	124679-HXCDD	34.28	1.566e4	1.275e4	1.153	1.23	1.24	184.6	YES	NO	bb	bb	5.074
60	123789-HxCDD	36.78	2.632e3	2.131e3	0.873	1.24	1.24	31.2	YES	NO	bd	bb	1.110
61	Total-hexadioxins	36.56	4.817e2	4.526e2	0.978	1.06	1.24	6.7	YES	NO	bb	bb	0.194
62	123678-HxCDD	36.40	6.214e3	4.810e3	0.950	1.29	1.24	73.0	YES	NO	db	db	2.332
63	Total-hexadioxins	35.41	1.734e4	1.389e4	0.978	1.25	1.24	143.4	YES	NO	dd	bb	6.497
64	1234678-HpCDD	40.54	9.596e4	9.319e4	1.268	1.03	1.05	829.5	YES	NO	bb	bd	46.060
65	1234679-HPCDD	39.49	1.025e5	9.885e4	1.473	1.04	1.05	962.6	YES	NO	bb	bb	42.195
66	OCDD	45.37	5.189e5	5.994e5	1.089	0.87	0.89	1792.2	YES	NO	bb	bb	374.697

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.51	3.397e5					17.0	YES		dd		
2	FUNCTION1 PFK	23.40	4.320e5					16.7	YES		dd		
3	FUNCTION1 PFK	23.27	4.654e5					17.9	YES		dd		
4	FUNCTION1 PFK	23.18	4.727e5					17.3	YES		dd		
5	FUNCTION1 PFK	22.89	1.041e6					16.7	YES		dd		
6	FUNCTION1 PFK	22.78	2.768e5					16.0	YES		dd		
7	FUNCTION1 PFK	22.72	2.734e5					16.1	YES		dd		
8	FUNCTION1 PFK	22.54	1.146e6					16.6	YES		bd		
9	FUNCTION1 PFK	22.06	9.926e5					14.2	YES		db		
10	FUNCTION1 PFK	21.89	9.627e5					14.2	YES		dd		
11	FUNCTION1 PFK	21.65	1.570e5					11.2	YES		dd		
12	FUNCTION1 PFK	21.44	3.666e5					12.2	YES		dd		
13	FUNCTION1 PFK	21.38	1.762e5					13.0	YES		dd		
14	FUNCTION1 PFK	21.32	3.588e5					12.7	YES		dd		
15	FUNCTION1 PFK	21.16	1.375e5					11.1	YES		dd		
16	FUNCTION1 PFK	21.10	1.867e5					11.5	YES		bd		
17	FUNCTION1 PFK	27.54	8.169e4					3.9	YES		bd		
18	FUNCTION1 PFK	27.33	6.746e3					0.9	NO		bb		
19	FUNCTION1 PFK	26.85	4.993e3					0.8	NO		bb		
20	FUNCTION1 PFK	26.74	6.929e3					0.9	NO		bb		
21	FUNCTION1 PFK	25.90	1.415e3					0.4	NO		bb		
22	FUNCTION1 PFK	25.66	1.448e3					0.4	NO		bb		
23	FUNCTION1 PFK	25.23	1.700e3					0.5	NO		bb		
24	FUNCTION1 PFK	25.13	1.758e3					0.5	NO		bb		
25	FUNCTION1 PFK	25.07	2.653e3					0.5	NO		bb		
26	FUNCTION1 PFK	24.38	2.732e5					7.7	YES		db		
27	FUNCTION1 PFK	24.31	3.281e5					8.7	YES		dd		
28	FUNCTION1 PFK	24.10	3.515e5					14.1	YES		dd		
29	FUNCTION1 PFK	24.02	2.741e5					16.5	YES		dd		
30	FUNCTION1 PFK	23.99	2.546e5					16.4	YES		bd		
31	FUNCTION1 PFK	23.81	3.261e5					17.1	YES		db		
32	FUNCTION1 PFK	23.64	9.344e5					18.5	YES		dd		
33	FUNCTION1 PFK	27.85	2.650e5					4.5	YES		db		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:05 Pacific Standard Time

**ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk****PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.92	2.805e4					2.8	NO		bb		0.000
2	FUNCTION2 PFK	32.63	9.458e2					0.7	NO		bb		0.000
3	FUNCTION2 PFK	32.21	6.882e3					1.8	NO		bb		0.000
4	FUNCTION2 PFK	31.33	1.799e3					0.8	NO		bb		0.000
5	FUNCTION2 PFK	31.21	1.416e4					2.7	NO		bb		0.000
6	FUNCTION2 PFK	30.66	5.853e3					1.6	NO		bb		0.000
7	FUNCTION2 PFK	30.18	2.221e3					1.0	NO		bb		0.000
8	FUNCTION2 PFK	29.81	2.764e3					1.1	NO		bb		0.000
9	FUNCTION2 PFK	28.39	4.847e4					2.3	NO		db		0.000
10	FUNCTION2 PFK	28.25	3.159e4					6.3	YES		bd		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.93	8.424e3					1.6	NO		bb		0.000
2	FUNCTION3 PFK	33.41	6.844e3					1.7	NO		bb		0.000
3	FUNCTION3 PFK	33.13	1.410e4					2.9	NO		bb		0.000
4	FUNCTION3 PFK	37.93	3.694e3					1.2	NO		bb		0.000
5	FUNCTION3 PFK	37.49	1.706e5					6.1	YES		bb		0.000
6	FUNCTION3 PFK	37.15	1.409e3					0.7	NO		bb		0.000
7	FUNCTION3 PFK	36.43	1.099e4					1.7	NO		bb		0.000
8	FUNCTION3 PFK	36.37	1.103e3					0.6	NO		bb		0.000
9	FUNCTION3 PFK	36.24	5.220e4					4.0	YES		bb		0.000
10	FUNCTION3 PFK	36.10	7.289e4					4.0	YES		bb		0.000
11	FUNCTION3 PFK	35.37	4.152e4					3.6	YES		bb		0.000
12	FUNCTION3 PFK	34.09	1.104e3					0.6	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:05 Pacific Standard Time

ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.79	7.690e3					2.2	NO		db		
2	FUNCTION5 PFK	43.73	4.240e3					1.7	NO		bd		
3	FUNCTION5 PFK	43.63	4.306e3					1.6	NO		bb		
4	FUNCTION5 PFK	43.45	1.515e3					1.1	NO		bb		
5	FUNCTION5 PFK	43.37	5.304e3					1.6	NO		bb		
6	FUNCTION5 PFK	46.10	2.995e3					1.3	NO		bb		
7	FUNCTION5 PFK	45.27	2.801e3					1.2	NO		bb		
8	FUNCTION5 PFK	44.89	2.156e3					1.2	NO		bb		
9	FUNCTION5 PFK	44.19	7.130e3					2.0	NO		bb		
10	FUNCTION5 PFK	44.08	3.440e3					1.7	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.94	1.490e3					34.6	YES		bb		0.000
2	FUNCTION1 HXCD...	27.08	2.981e3					67.0	YES		bb		0.000
3	FUNCTION1 HXCD...	26.43	1.016e4					235.3	YES		bb		0.000
4	FUNCTION1 HXCD...	26.18	7.597e2					18.2	YES		db		0.000
5	FUNCTION1 HXCD...	26.05	5.407e3					134.2	YES		bd		0.000
6	FUNCTION1 HXCD...	25.38	2.593e3					62.8	YES		bb		0.000
7	FUNCTION1 HXCD...	24.04	5.648e3					138.8	YES		bb		0.000
8	FUNCTION1 HXCD...	23.02	2.257e2					6.1	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	22.04	8.554e1					1.6	NO		bd		0.000
2	FUNCTION1 HPCD...	26.53	7.424e1					1.6	NO		bb		0.000
3	FUNCTION1 HPCD...	26.09	7.914e1					2.7	NO		bb		0.000
4	FUNCTION1 HPCD...	25.61	1.060e2					2.4	NO		bb		0.000
5	FUNCTION1 HPCD...	24.08	8.874e1					1.6	NO		bb		0.000
6	FUNCTION1 HPCD...	23.63	1.454e2					3.9	YES		bb		0.000
7	FUNCTION1 HPCD...	22.31	1.353e2					3.8	YES		bb		0.000
8	FUNCTION1 HPCD...	22.10	7.911e1					1.8	NO		db		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:05 Pacific Standard Time

ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.51	1.496e3					30.1	YES		bb		0.000
2	FUNCTION2 HPCD...	29.25	1.945e3					44.1	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.68	7.835e1					2.4	NO		dd		0.000
2	FUNCTION3 OCDPE	37.60	2.031e2					3.9	YES		bd		0.000
3	FUNCTION3 OCDPE	34.91	8.696e1					2.1	NO		bb		0.000
4	FUNCTION3 OCDPE	34.55	1.180e2					6.0	YES		bb		0.000
5	FUNCTION3 OCDPE	33.37	1.074e2					2.9	NO		bb		0.000
6	FUNCTION3 OCDPE	37.81	8.464e1					2.2	NO		db		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.67	3.841e3					73.6	YES		bb		0.000

**ETHERS6**

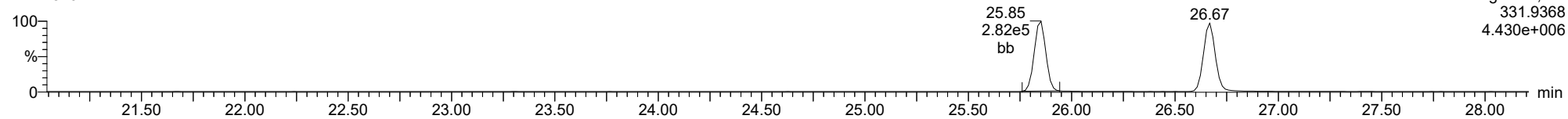
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Method:** T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

**ID:** 22L0246-08, **Name:** 22122820, **Date:** 29-Dec-2022, **Time:** 02:32:13, **Conditions:** AUTOSPEC01, **User:** pk

**13C-1234-TCDD**

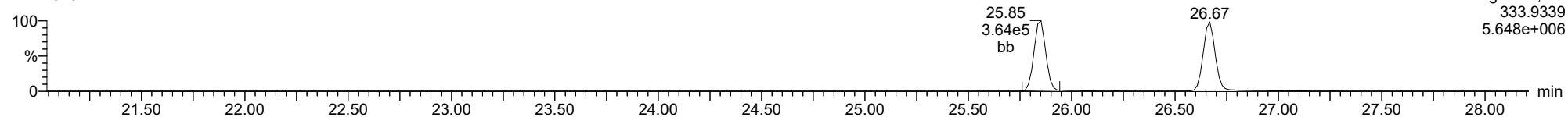
22122820



F1:Voltage SIR,El+  
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4.430e+006

**13C-1234-TCDD**

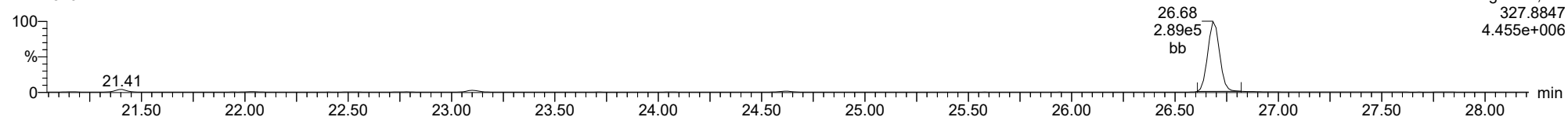
22122820



F1:Voltage SIR,El+  
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5.648e+006

**37CL-2378-TCDD**

22122820



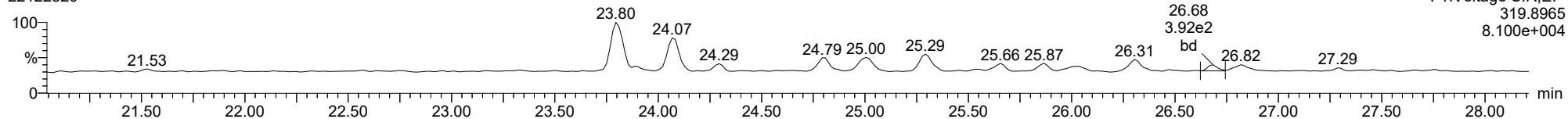
F1:Voltage SIR,El+  
327.8847  
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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

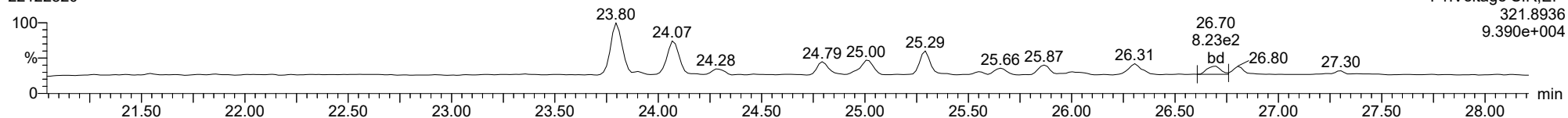
**2378-TCDD**

22122820



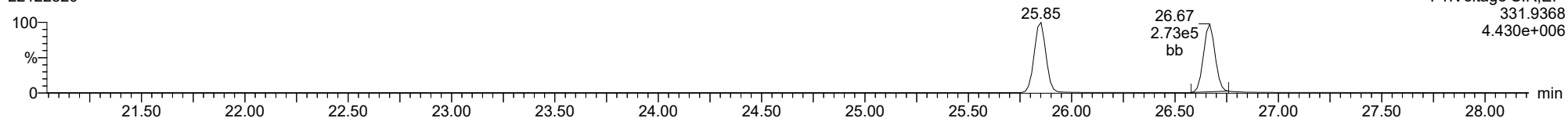
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22122820



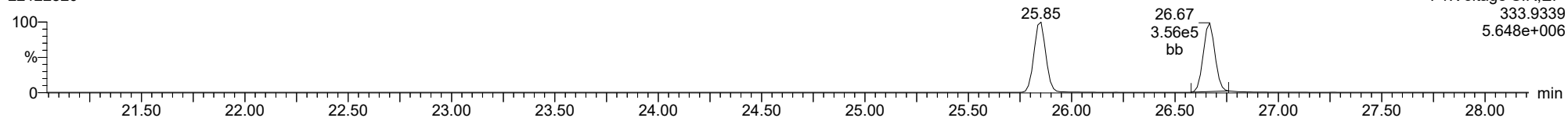
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22122820



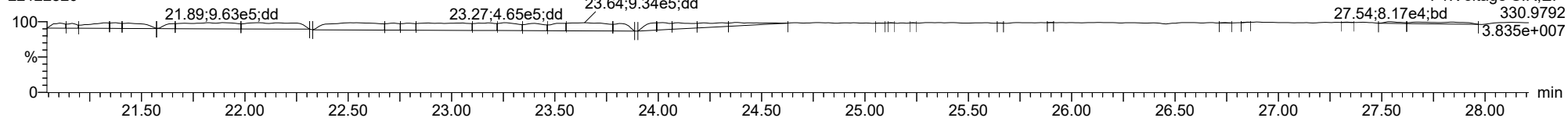
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22122820



**FUNCTION1 PFK**

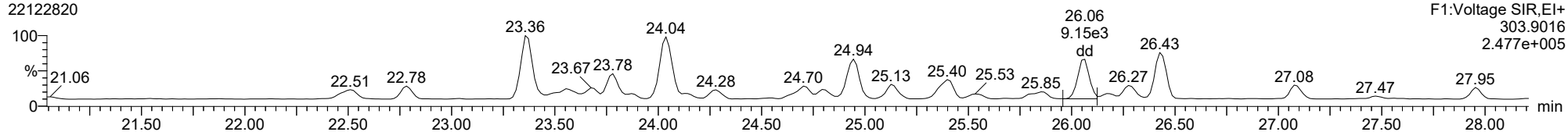
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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

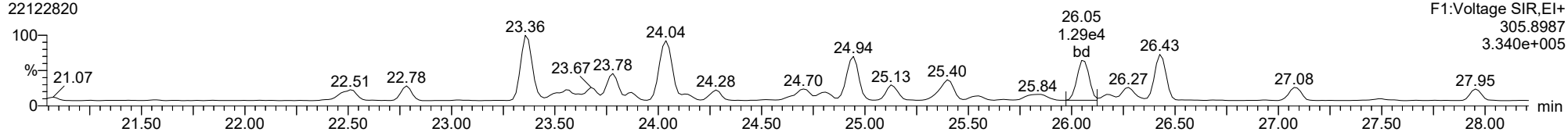
2378-TCDF

22122820



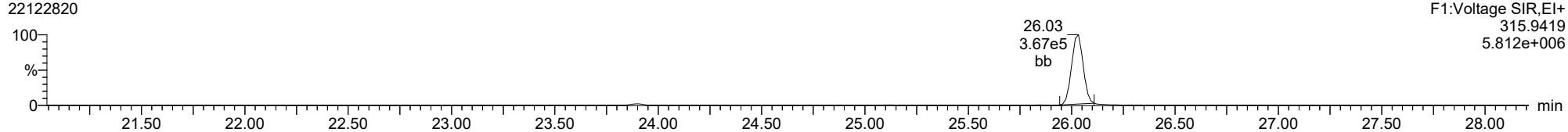
2378-TCDF

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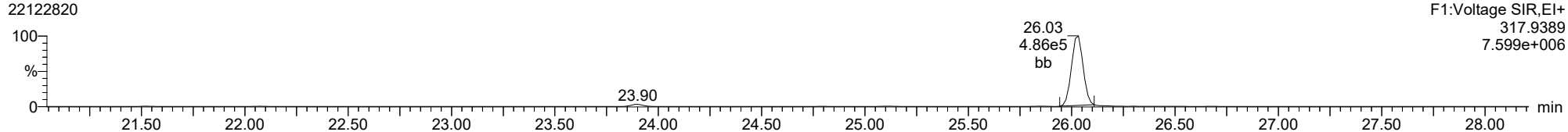
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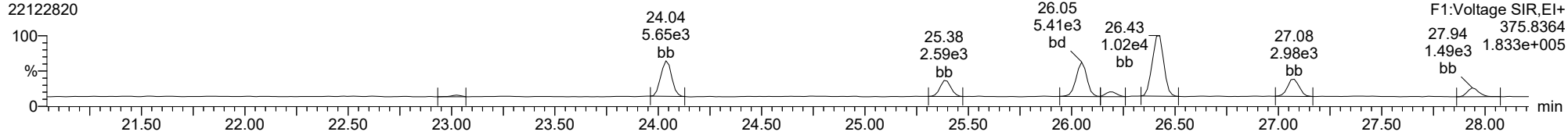
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FUNCTION1 HXCDPE

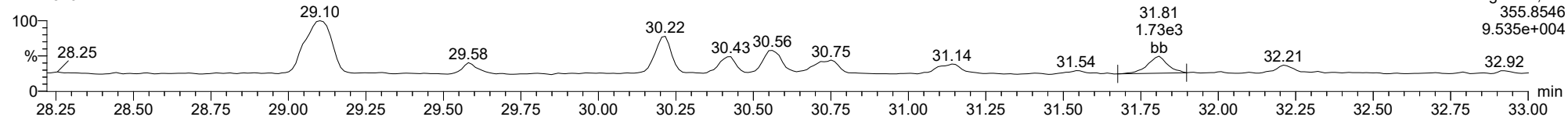
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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

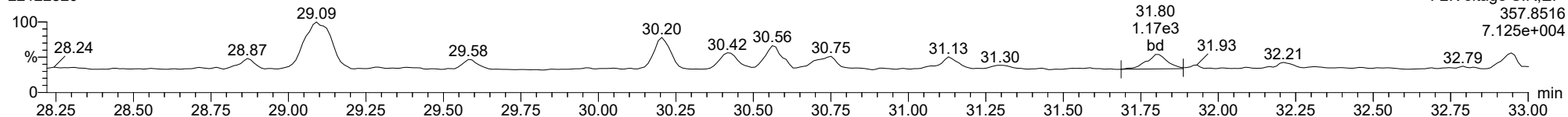
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22122820



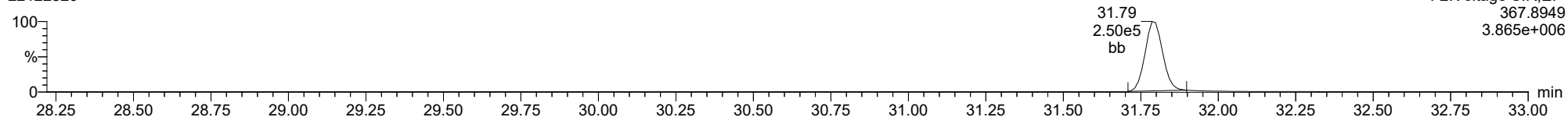
**12378-PeCDD**

22122820



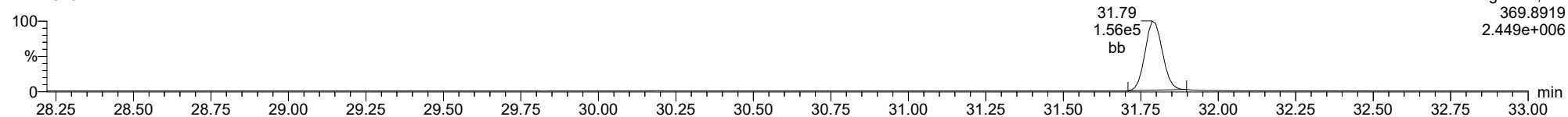
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22122820



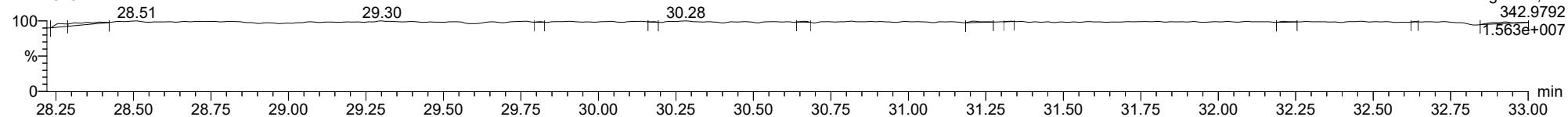
**13C-12378-PeCDD**

22122820



**FUNCTION2 PFK**

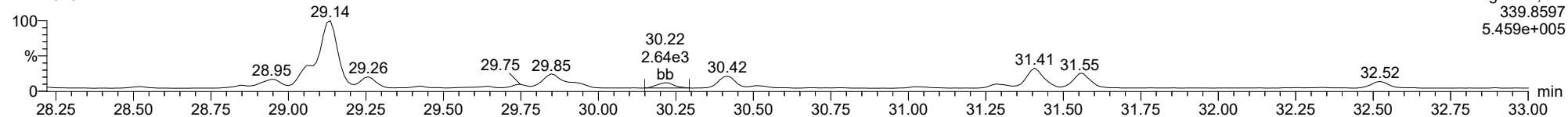
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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

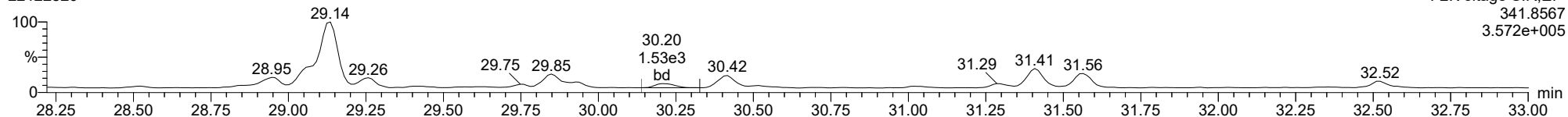
**12378-PeCDF**

22122820



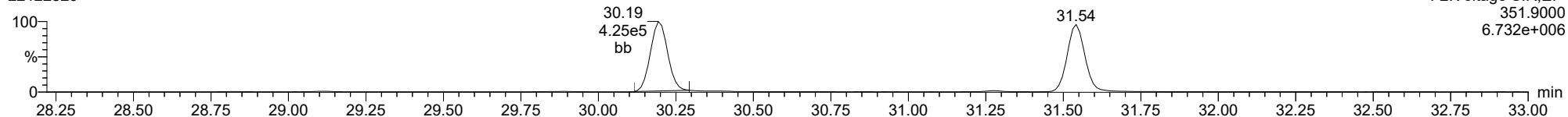
**12378-PeCDF**

22122820



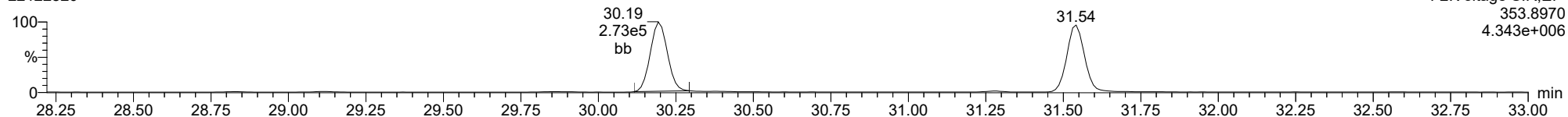
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22122820



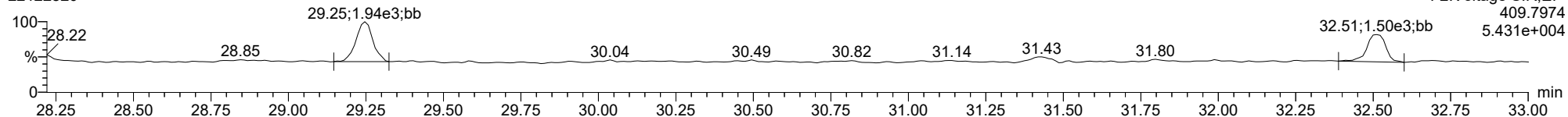
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22122820



**FUNCTION2 HPCDPE**

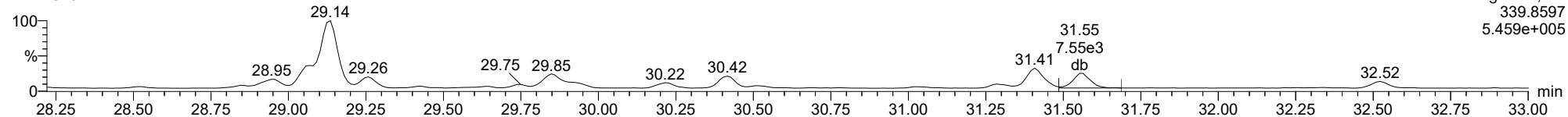
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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

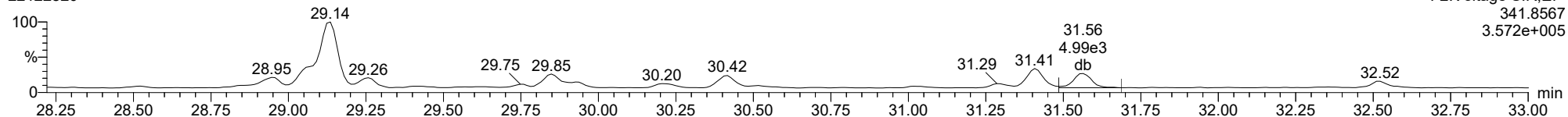
**23478-PeCDF**

22122820



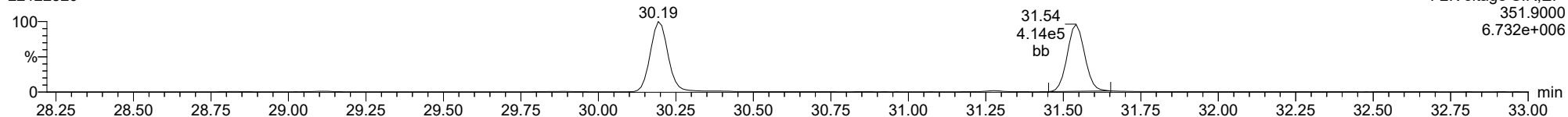
**23478-PeCDF**

22122820



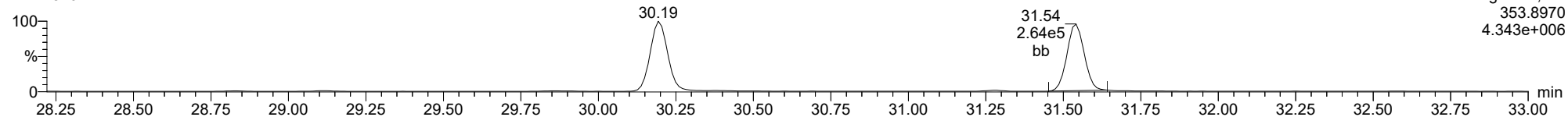
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22122820



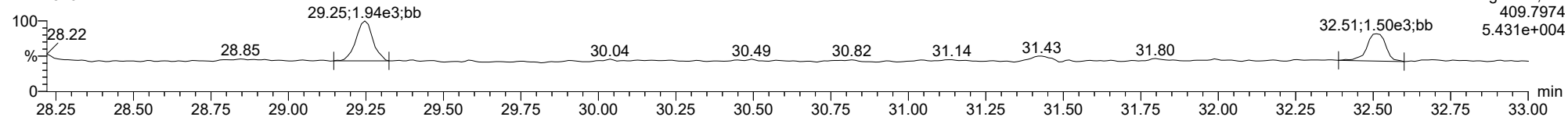
**13C-23478-PeCDF**

22122820



**FUNCTION2 HPCDPE**

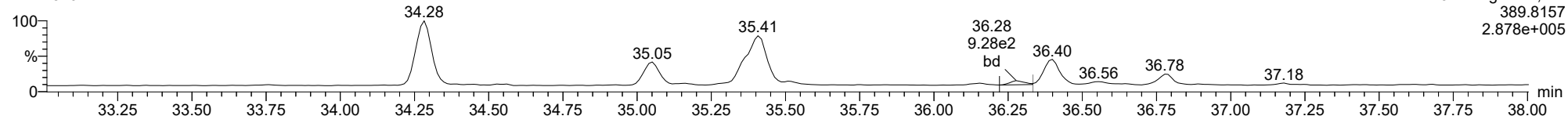
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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

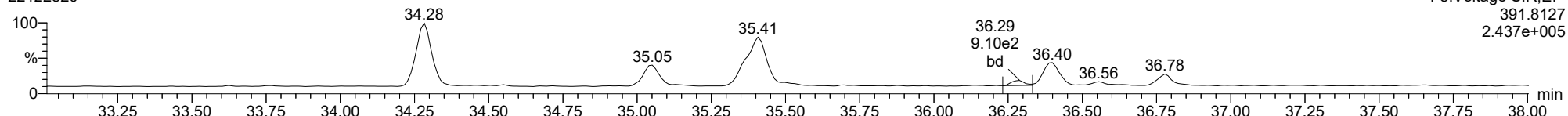
123478-HxCDD

22122820



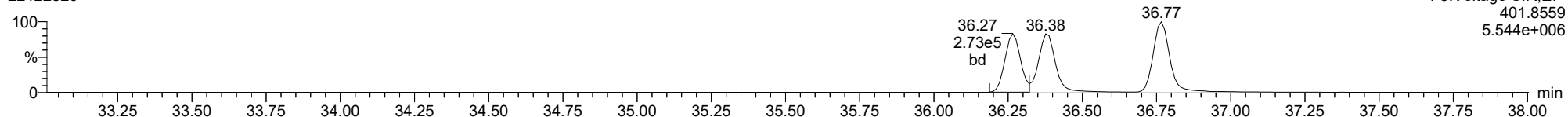
123478-HxCDD

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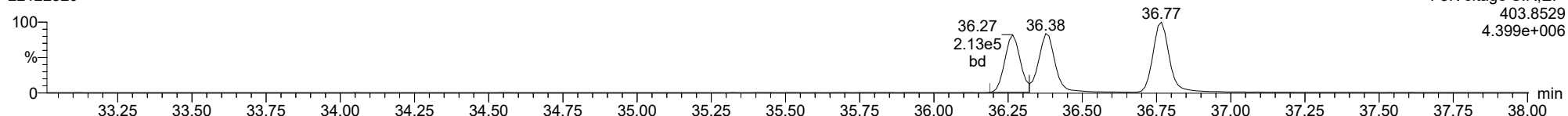
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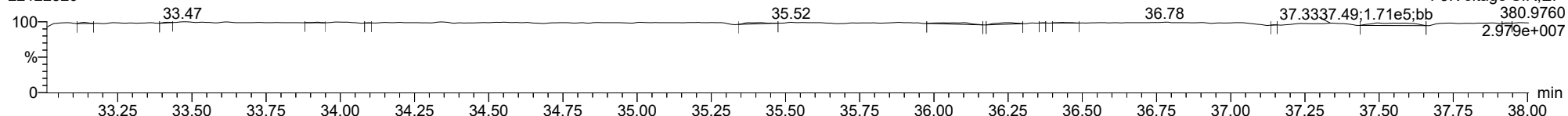
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22122820



FUNCTION3 PFK

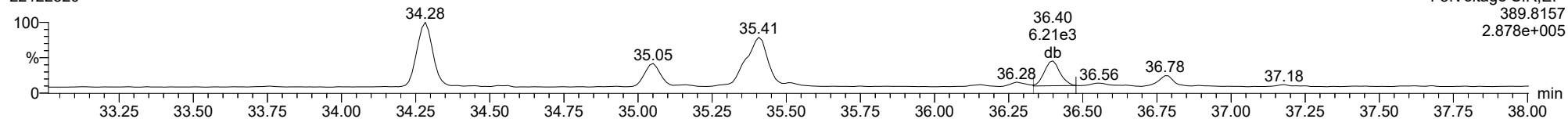
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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

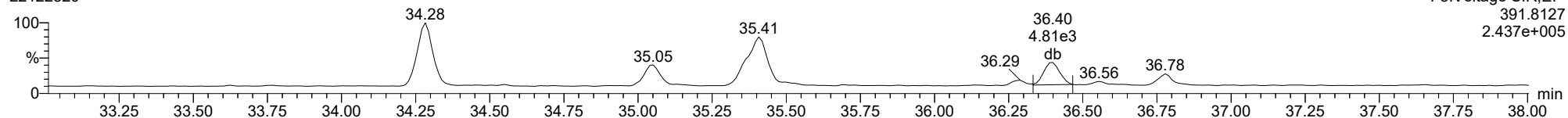
**123678-HxCDD**

22122820



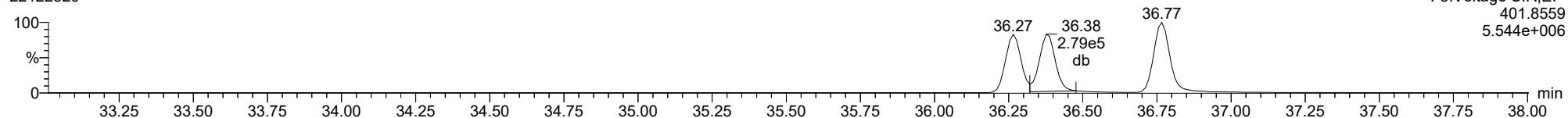
**123678-HxCDD**

22122820



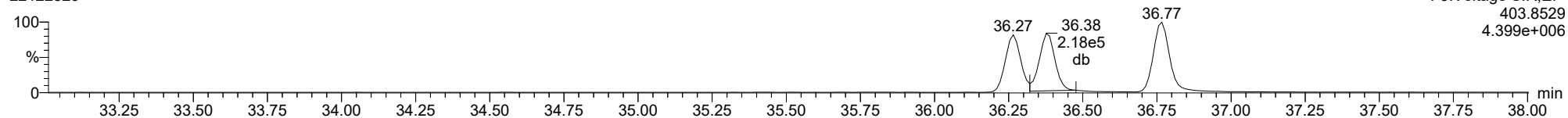
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22122820



**13C-123678-HxCDD**

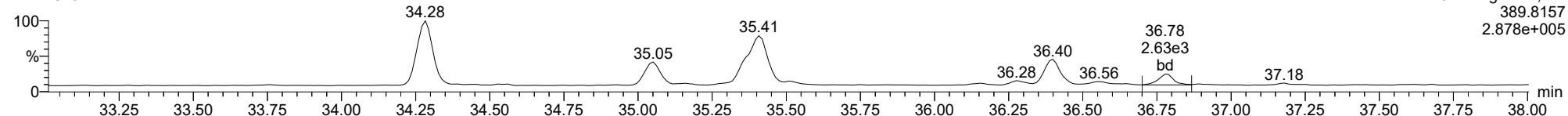
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ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

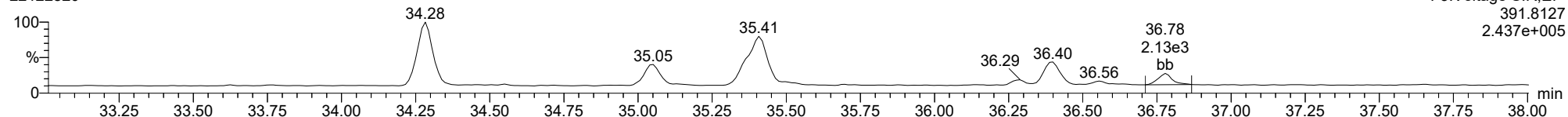
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22122820



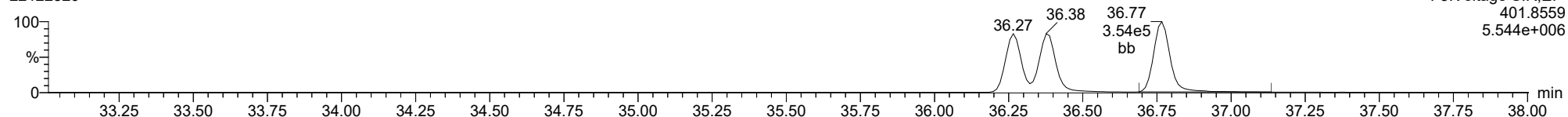
**123789-HxCDD**

22122820



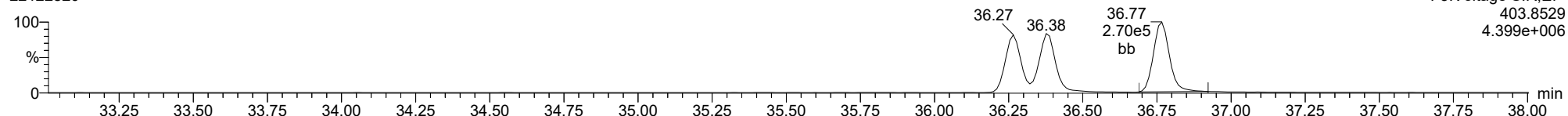
**13C-123789-HxCDD**

22122820



**13C-123789-HxCDD**

22122820

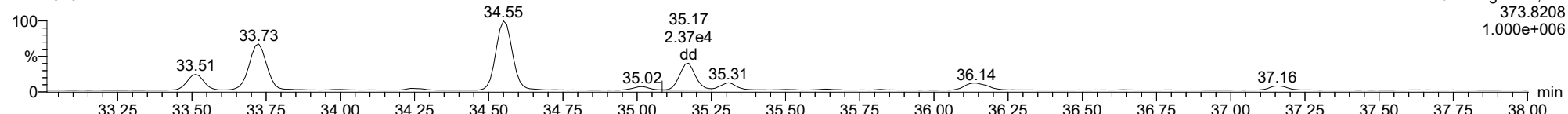




ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

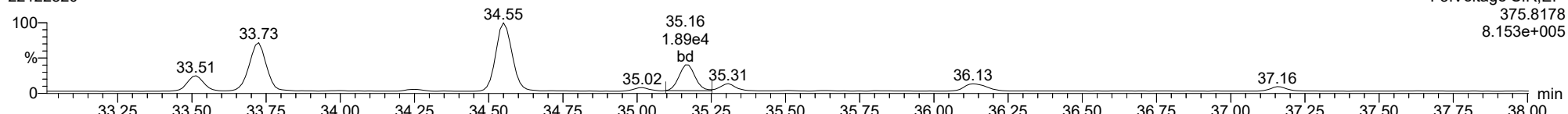
**123478-HxCDF**

22122820



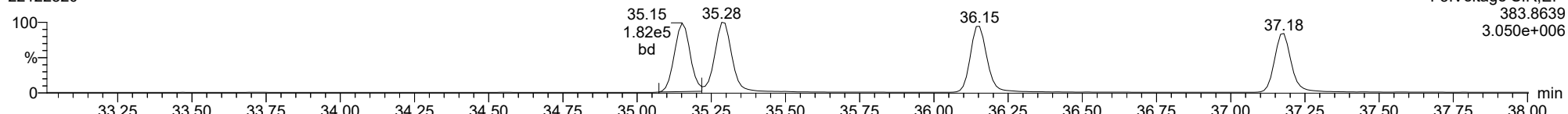
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22122820



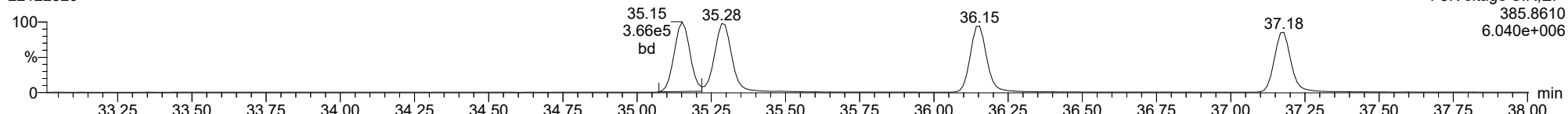
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22122820



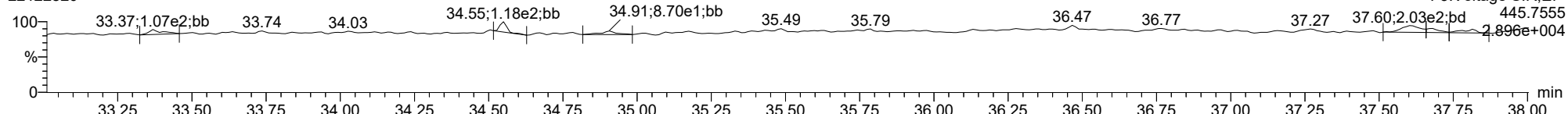
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22122820



**FUNCTION3 OCDPE**

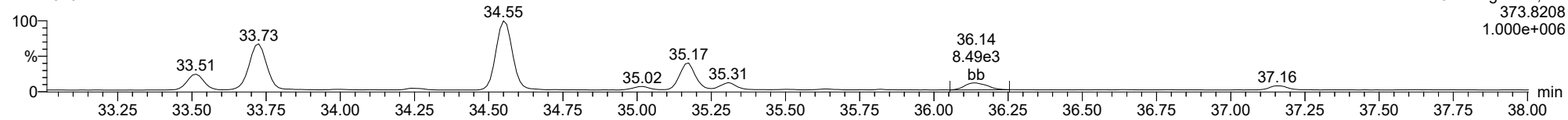
22122820



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

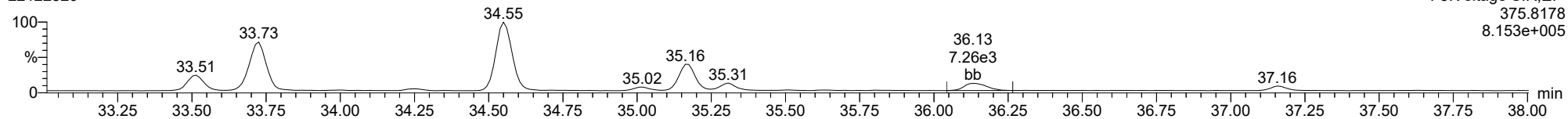
**234678-HxCDF**

22122820



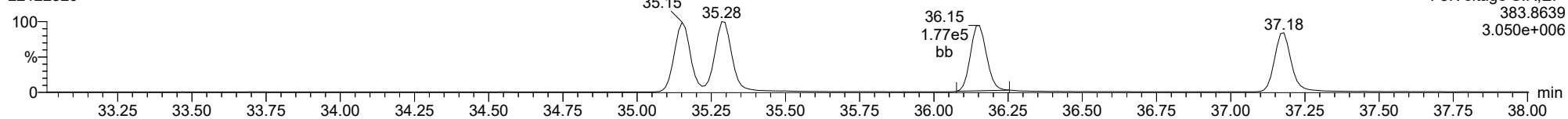
**234678-HxCDF**

22122820



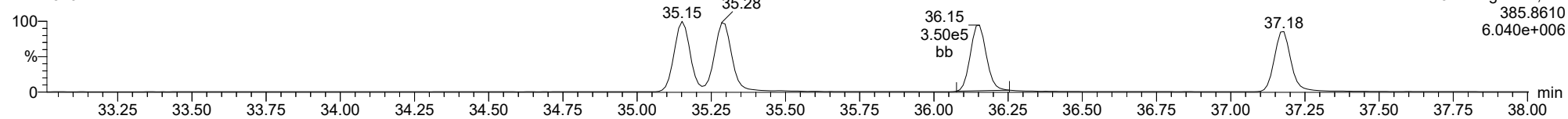
**13C-234678-HxCDF**

22122820



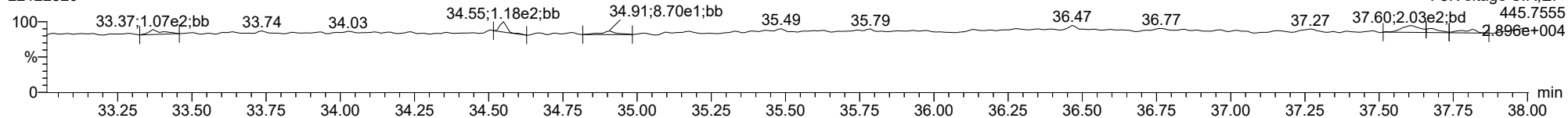
**13C-234678-HxCDF**

22122820



**FUNCTION3 OCDPE**

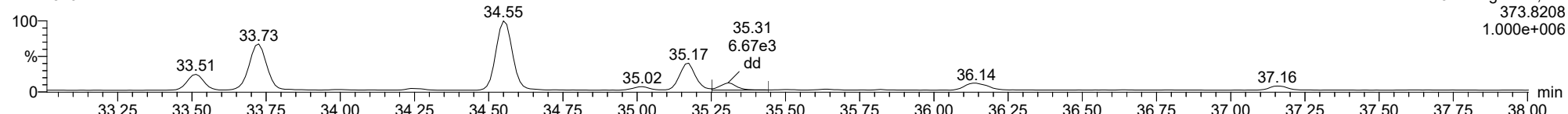
22122820



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

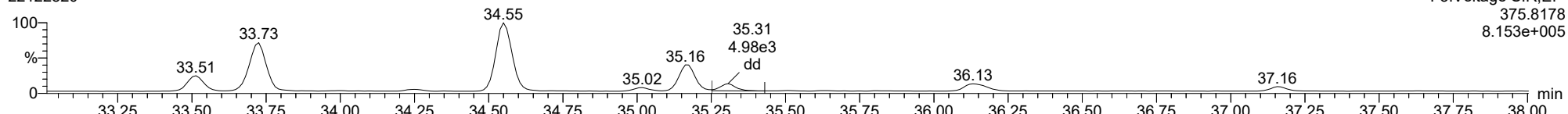
**123678-HxCDF**

22122820



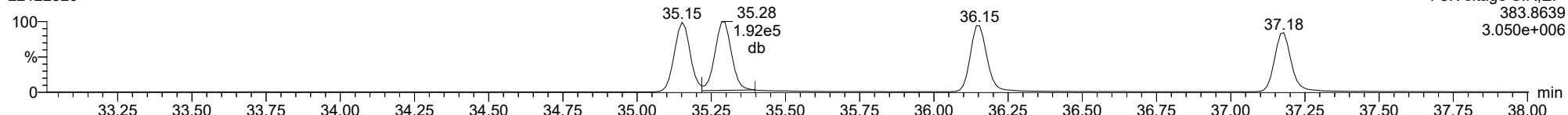
**123678-HxCDF**

22122820



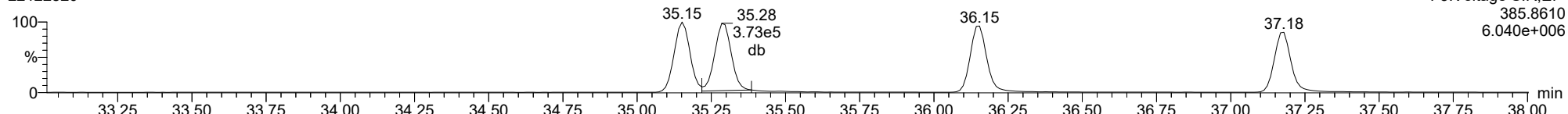
**13C-123678-HxCDF**

22122820



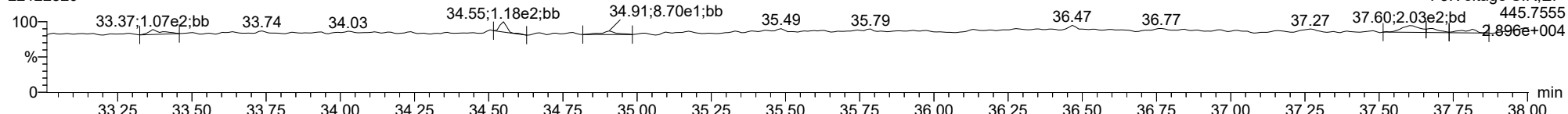
**13C-123678-HxCDF**

22122820



**FUNCTION3 OCDPE**

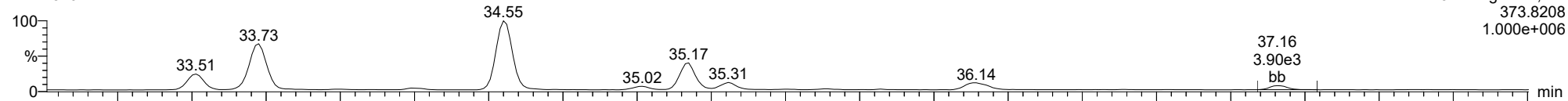
22122820



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

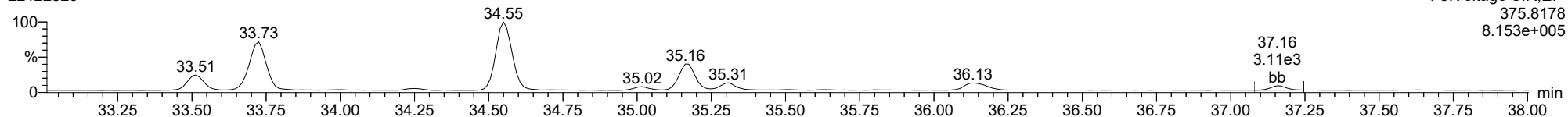
**123789-HxCDF**

22122820



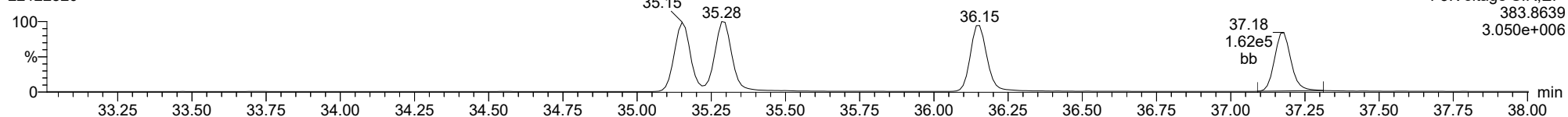
**123789-HxCDF**

22122820



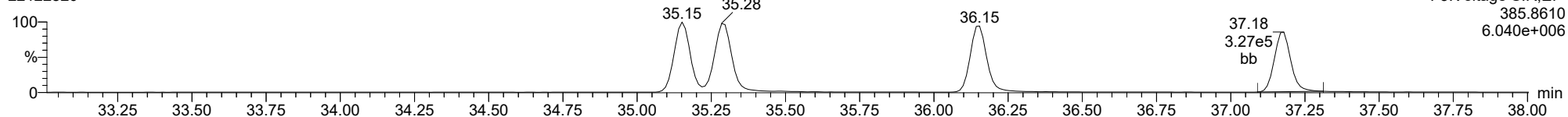
**13C-123789-HxCDF**

22122820



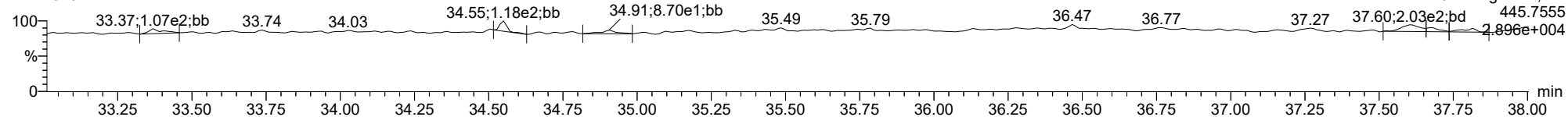
**13C-123789-HxCDF**

22122820



**FUNCTION3 OCDPE**

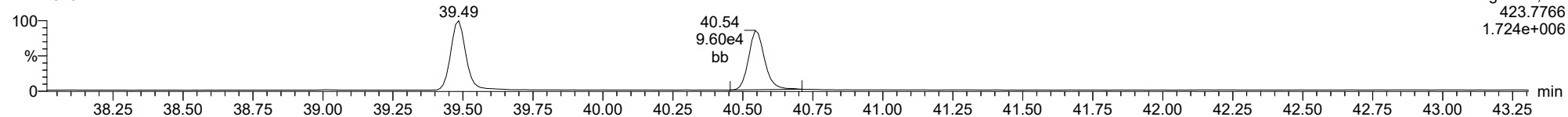
22122820



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

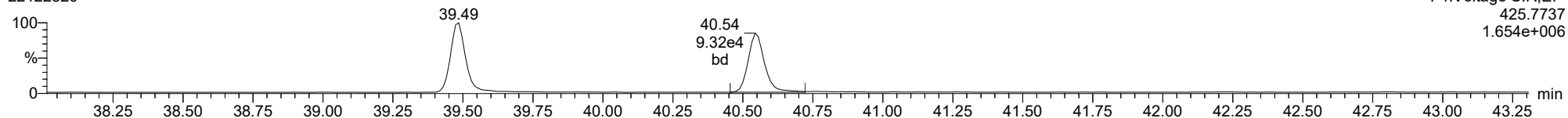
22122820



F4:Voltage SIR,El+  
423.7766  
1.724e+006

1234678-HpCDD

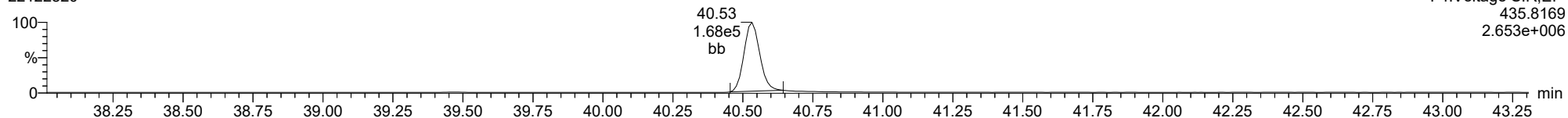
22122820



F4:Voltage SIR,El+  
425.7737  
1.654e+006

13C-1234678-HpCDD

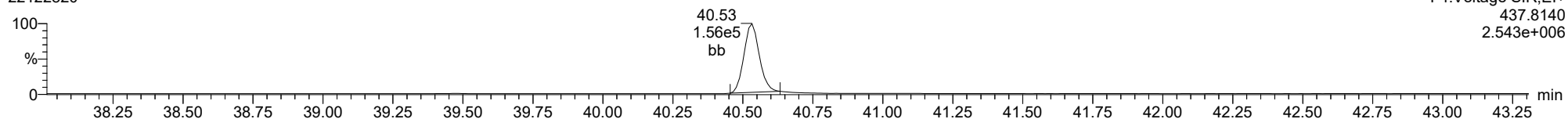
22122820



F4:Voltage SIR,El+  
435.8169  
2.653e+006

13C-1234678-HpCDD

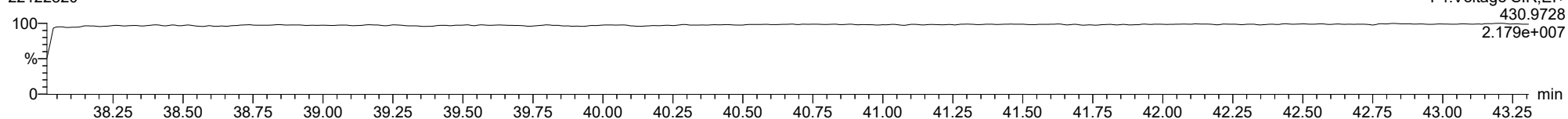
22122820



F4:Voltage SIR,El+  
437.8140  
2.543e+006

FUNCTION4 PFK

22122820

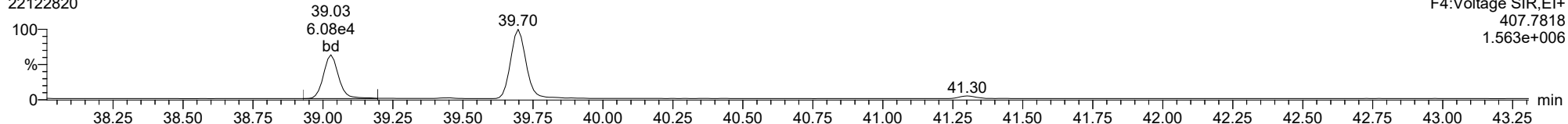


F4:Voltage SIR,El+  
430.9728  
2.179e+007

ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDF**

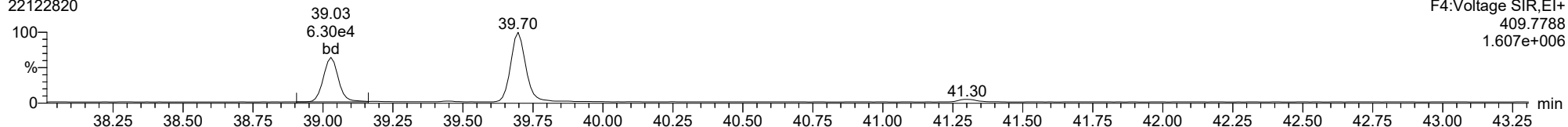
22122820



F4:Voltage SIR,EI+  
407.7818  
1.563e+006

**1234678-HpCDF**

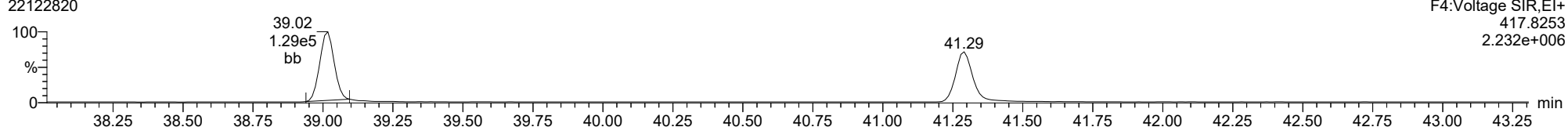
22122820



F4:Voltage SIR,EI+  
409.7788  
1.607e+006

**13C-1234678-HpCDF**

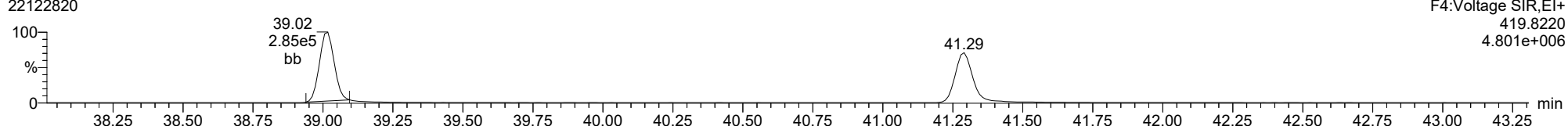
22122820



F4:Voltage SIR,EI+  
417.8253  
2.232e+006

**13C-1234678-HpCDF**

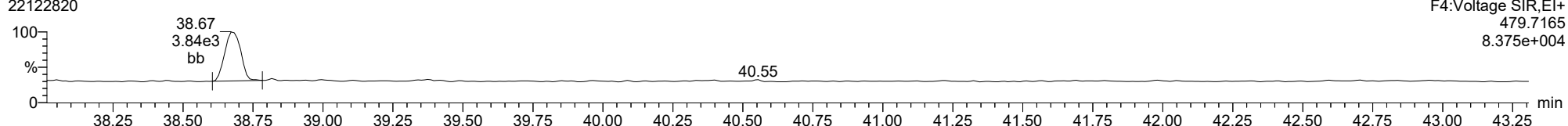
22122820



F4:Voltage SIR,EI+  
419.8220  
4.801e+006

**FUNCTION4 NCDPE**

22122820

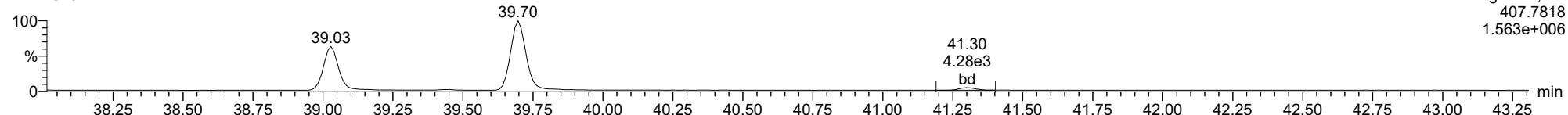


F4:Voltage SIR,EI+  
479.7165  
8.375e+004

ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

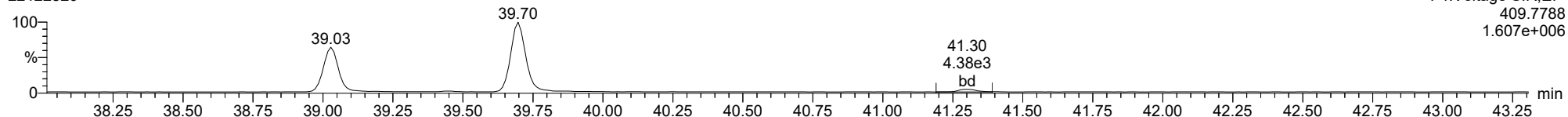
**1234789-HpCDF**

22122820



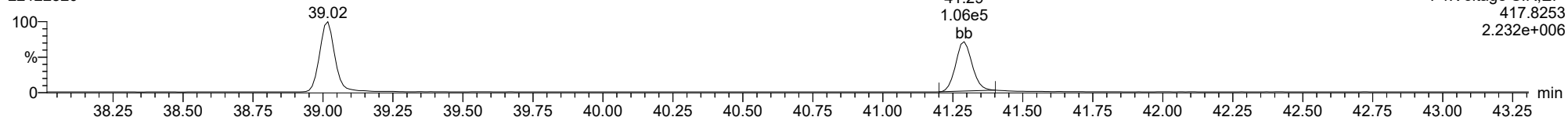
**1234789-HpCDF**

22122820



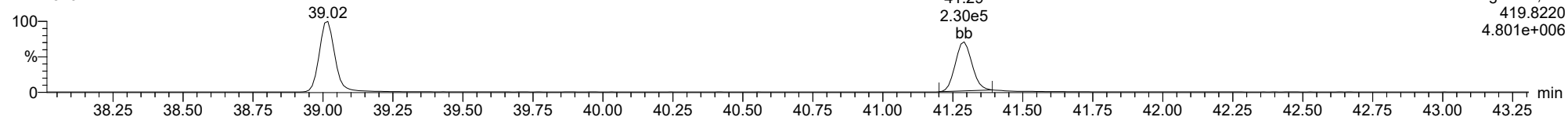
**13C-1234789-HpCDF**

22122820



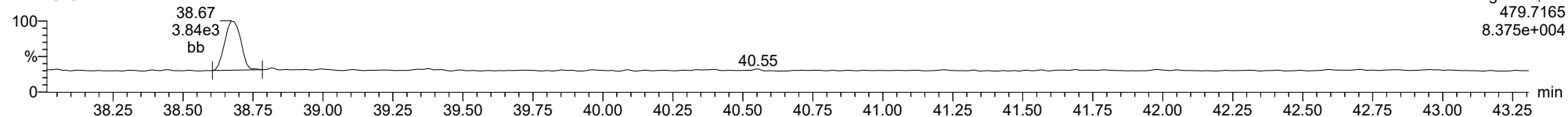
**13C-1234789-HpCDF**

22122820



**FUNCTION4 NCDPE**

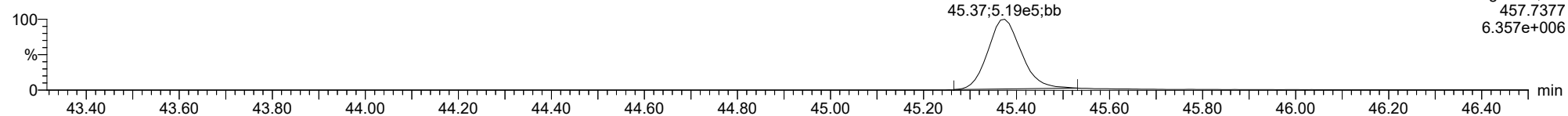
22122820



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

**OCDD**

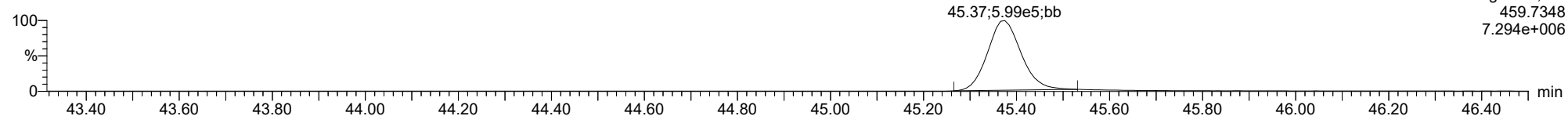
22122820



F5:Voltage SIR,EI+  
457.7377  
6.357e+006

**OCDD**

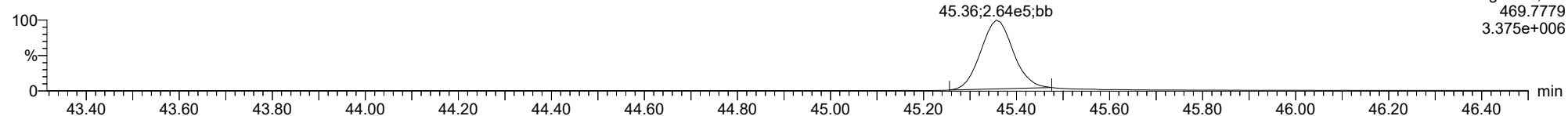
22122820



F5:Voltage SIR,EI+  
459.7348  
7.294e+006

**13C-OCDD**

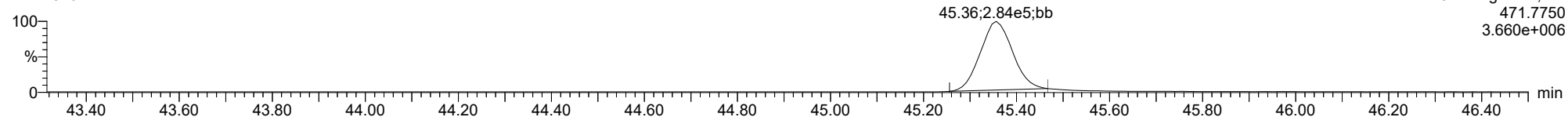
22122820



F5:Voltage SIR,EI+  
469.7779  
3.375e+006

**13C-OCDD**

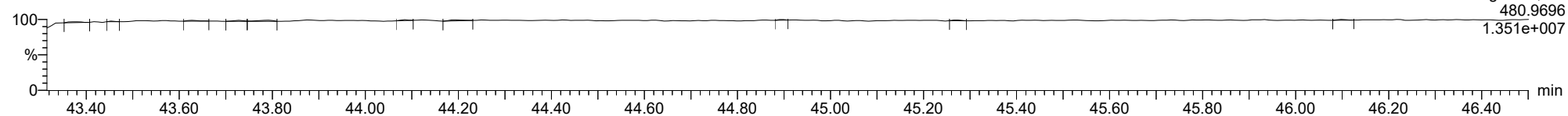
22122820



F5:Voltage SIR,EI+  
471.7750  
3.660e+006

**FUNCTION5 PFK**

22122820



F5:Voltage SIR,EI+  
480.9696  
1.351e+007



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

**OCDF**

22122820

F5:Voltage SIR,EI+

441.7428

6.664e+005

100

%

0

43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

45.62;5.64e4;bd

**OCDF**

22122820

F5:Voltage SIR,EI+

443.7399

7.380e+005

100

%

0

43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

45.62;6.22e4;bd

**FUNCTION5 DCDPE**

22122820

F5:Voltage SIR,EI+

513.6775

2.609e+004

100

%

0

43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

F5:Voltage SIR,EI+

443.7399

7.380e+005

513.6775

2.609e+004

100

%

0

43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

43.33

43.63

43.77

44.24

44.54

44.90

44.95

45.16

45.43

45.61

45.70

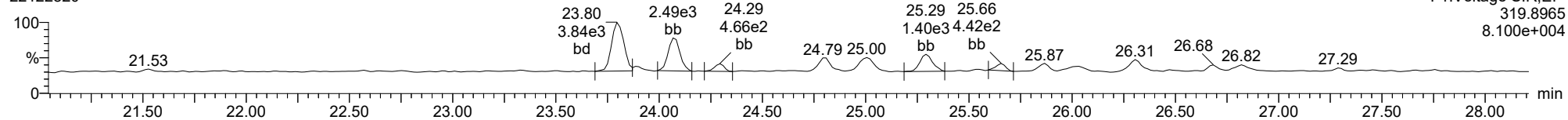
46.15

46.34

ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

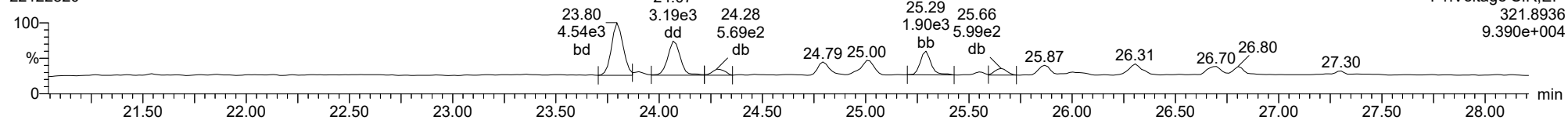
**Total-tetradoxins**

22122820



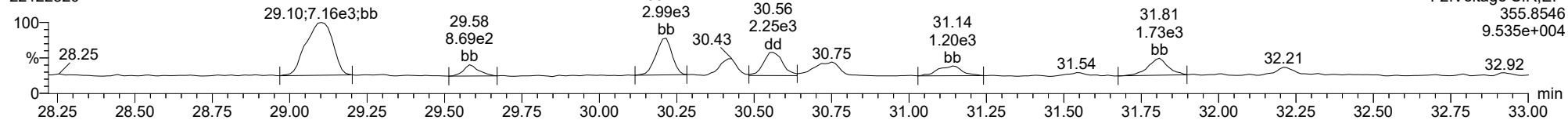
**Total-tetradoxins**

22122820



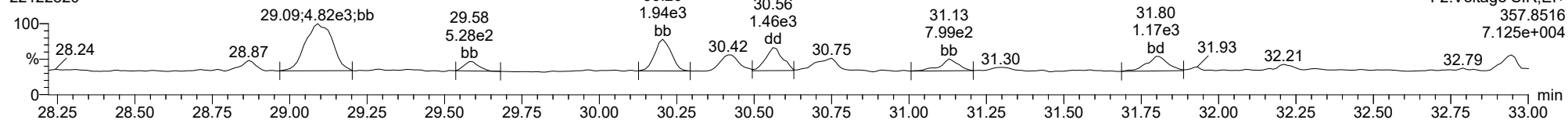
**Total-pentadoxins**

22122820



**Total-pentadoxins**

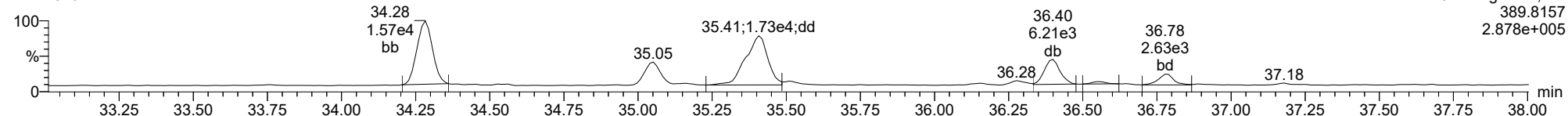
22122820



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

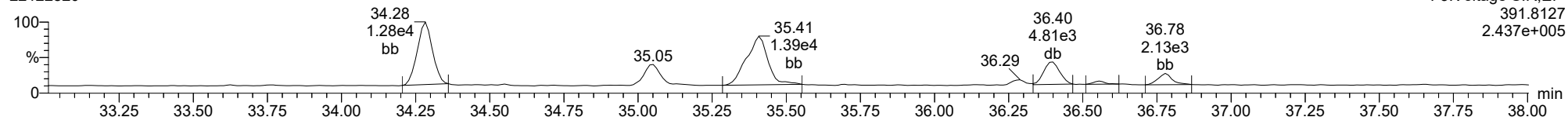
**Total-hexadioxins**

22122820



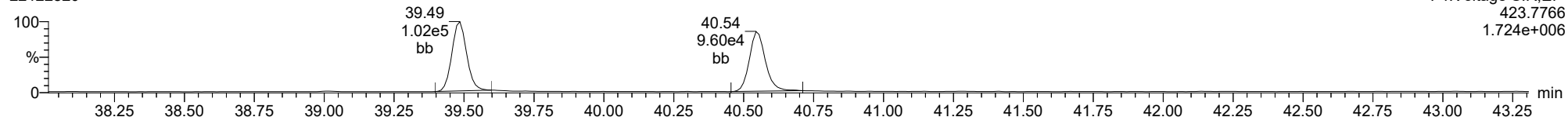
**Total-hexadioxins**

22122820



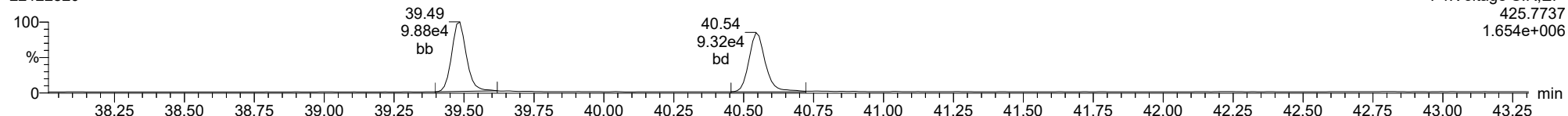
**Total-heptadioxins**

22122820



**Total-heptadioxins**

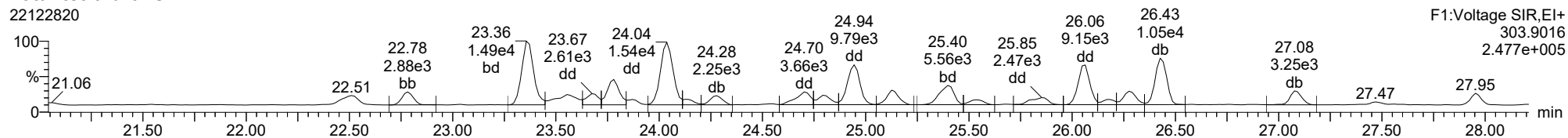
22122820



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

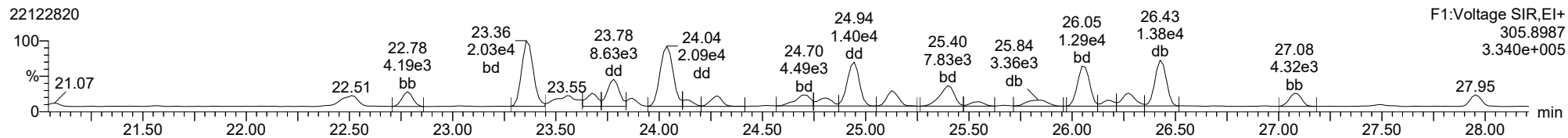
**Total-tetrafurans**

22122820



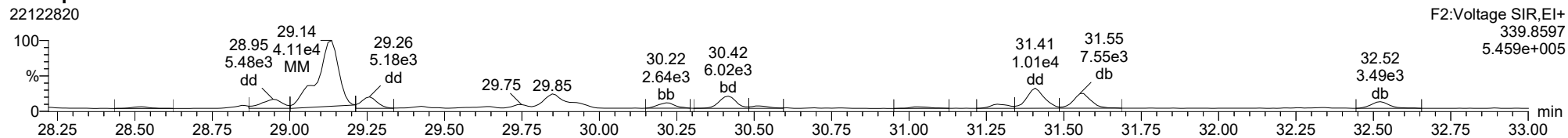
**Total-tetrafurans**

22122820



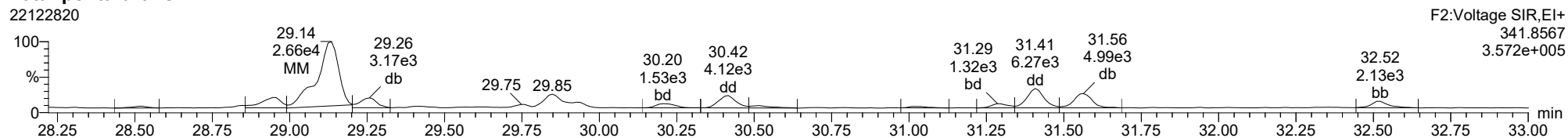
**Total-pentafurans**

22122820



**Total-pentafurans**

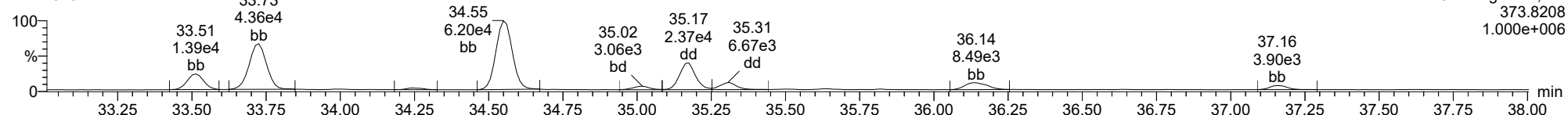
22122820



ID: 22L0246-08, Name: 22122820, Date: 29-Dec-2022, Time: 02:32:13, Conditions: AUTOSPEC01, User: pk

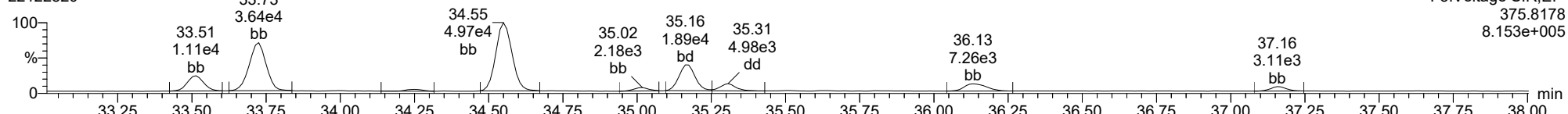
**Total-hexafurans**

22122820



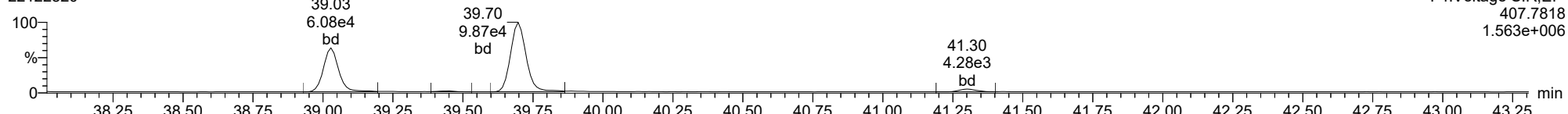
**Total-hexafurans**

22122820



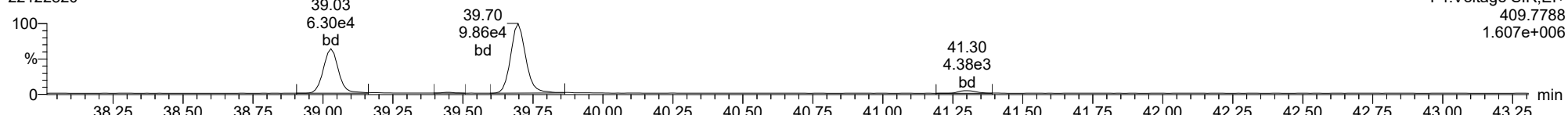
**Total-heptafurans**

22122820



**Total-heptafurans**

22122820





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-09 A File ID: 22122821  
 Sampled: 12/09/22 08:40 Prepared: 12/19/22 15:18 Analyzed: 12/29/22 03:21  
 % Solids: 58.84 Preparation: EPA 1613 Initial/Final: 17.01 g Wet / 20 uL  
 Result Basis: Dry Sequence: SKL0339 Calibration: FC00062  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.691	0.655-0.886	0.136	0.999	4.53	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.215	0.655-0.886	0.108	0.999	0.269	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.517	1.318-1.783	0.178	0.999	0.535	ng/kg	J
57117-31-4	2,3,4,7,8-PeCDF	1	2.104	1.318-1.783	0.162	0.999	1.14	ng/kg	EMPC
40321-76-4	1,2,3,7,8-PeCDD	1	0.962	1.318-1.783	0.285	0.999	0.579	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.209	1.054-1.426	0.107	0.999	2.09	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.123	1.054-1.426	0.111	0.999	1.19	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.182	1.054-1.426	0.105	0.999	1.95	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.120	1.054-1.426	0.132	0.999	0.494	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.919	1.054-1.426	0.184	0.999	0.334	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.034	1.054-1.426	0.182	0.999	1.25	ng/kg	EMPC
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.461	1.054-1.426	0.197	0.999	0.933	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.989	0.893-1.208	0.108	0.999	10.6	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.062	0.893-1.208	0.157	0.999	1.02	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.024	0.893-1.208	0.239	2.50	19.2	ng/kg	B
39001-02-0	OCDF	1	0.925	0.757-1.024	0.217	2.50	16.9	ng/kg	B
3268-87-9	OCDD	1	0.876	0.757-1.024	0.415	9.99	138	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	41.4	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	3.57	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	47.5	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	3.99	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	29.3	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	12.9	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	30.3	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	38.4	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 2.84  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 2.84



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-09</u>
Sampled:	<u>12/09/22 08:40</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>58.84</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SKL0339</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>22122821</u>
		Analyzed:	<u>12/29/22 03:21</u>
		Initial/Final:	<u>17.01 g / 20 uL</u>
		Calibration:	<u>FC00062</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.746	0.655-0.886	0.100	61.8	24 - 169 %	
13C12-2,3,7,8-TCDD		0.757	0.655-0.886	0.125	75.6	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.566	1.318-1.783	0.107	62.5	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.559	1.318-1.783	0.113	63.9	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.593	1.318-1.783	0.142	68.1	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.502	0.434-0.587	0.167	69.9	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.514	0.434-0.587	0.157	67.1	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.499	0.434-0.587	0.179	71.1	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.502	0.434-0.587	0.208	75.5	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.271	1.054-1.426	0.153	69.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.237	1.054-1.426	0.140	66.3	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.436	0.374-0.506	0.185	63.5	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.456	0.374-0.506	0.240	67.8	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.093	0.893-1.208	0.226	80.4	23 - 140 %	
13C12-OCDD		0.889	0.757-1.024	0.294	76.8	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.039	99.4	35 - 197 %	

\* Values outside of QC limits

**Quantify Sample Summary Report**      **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:55:19 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30

Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.063	1.001	7.206e3	1.042e4	0.985	0.691	0.770	1076	1731	1.09e5	1.55e5	101.3	89.3	NO	dd	dd	2.265
12378-PeCDF	30.215	1.001	9.613e2	6.338e2	0.906	1.517	1.550	1169	1575	1.34e4	1.05e4	11.4	6.6	NO	bb	bb	0.268
23478-PeCDF	31.564	1.001	2.493e3	1.185e3	1.008	2.104	1.550	1169	1575	3.58e4	2.01e4	30.6	12.8	YES	db	db	0.572
123478-HxCDF	35.174	1.001	3.169e3	2.622e3	1.045	1.209	1.240	766	812	4.95e4	4.17e4	64.6	51.4	NO	dd	dd	1.047
234678-HxCDF	36.143	1.000	2.921e3	2.472e3	1.101	1.182	1.240	766	812	3.32e4	2.66e4	43.4	32.7	NO	bb	bb	0.974
123678-HxCDF	35.307	1.000	1.733e3	1.543e3	1.019	1.123	1.240	766	812	2.83e4	2.24e4	36.9	27.6	NO	db	db	0.594
123789-HxCDF	37.146	0.999	5.943e2	5.307e2	0.992	1.120	1.240	766	812	7.33e3	8.11e3	9.6	10.0	NO	MM	bb	0.247
1234678-HpCDF	39.029	1.000	1.331e4	1.346e4	1.243	0.989	1.050	779	752	2.15e5	2.25e5	275.4	299.5	NO	bb	bb	5.306
1234789-HpCDF	41.313	1.001	1.052e3	9.907e2	1.192	1.062	1.050	779	752	1.43e4	1.48e4	18.4	19.7	NO	bb	bb	0.511
OCDF	45.622	1.006	1.428e4	1.545e4	1.303	0.925	0.890	762	785	1.75e5	1.78e5	229.9	227.1	NO	bb	bd	8.453
2378-TCDD	26.713	1.002	1.666e2	7.729e2	1.168	0.215	0.770	992	945	3.33e3	1.16e4	3.4	12.3	YES	dd	bd	0.135
12378-PeCDD	31.809	1.000	6.317e2	6.568e2	1.152	0.962	1.550	1973	1283	1.06e4	7.54e3	5.4	5.9	YES	bb	bb	0.290
123478-HxCDD	36.288	1.001	3.507e2	3.817e2	0.934	0.919	1.240	973	1278	7.90e3	6.78e3	8.1	5.3	YES	bb	bd	0.167
123678-HxCDD	36.399	1.001	1.479e3	1.430e3	0.950	1.034	1.240	973	1278	2.64e4	2.38e4	27.2	18.6	YES	bb	db	0.626
123789-HxCDD	36.778	1.011	1.158e3	7.927e2	0.873	1.461	1.240	973	1278	1.42e4	1.26e4	14.6	9.8	YES	bb	bb	0.467
1234678-HpCDD	40.555	1.001	1.990e4	1.943e4	1.268	1.024	1.050	1381	1086	3.05e5	2.88e5	220.9	264.8	NO	bb	bd	9.597
OCDD	45.375	1.000	9.459e4	1.080e5	1.089	0.876	0.890	1457	1018	1.10e6	1.22e6	757.0	1197.3	NO	bd	bd	68.892
13C-2378-TCDF	26.033	1.007	3.378e5	4.526e5	1.751	0.746	0.770	1861	1540	5.35e6	7.10e6	2877.2	4609.2	NO	bb	bb	61.778
13C-12378-PeCDF	30.193	1.168	4.016e5	2.564e5	1.442	1.566	1.550	1503	1510	6.24e6	3.94e6	4151.4	2608.7	NO	bb	bb	62.483
13C-23478-PeCDF	31.542	1.220	3.886e5	2.492e5	1.366	1.559	1.550	1503	1510	6.13e6	3.93e6	4080.4	2599.7	NO	bb	bb	63.934
13C-123478-HxCDF	35.151	0.956	1.767e5	3.522e5	1.095	0.502	0.510	1434	1963	2.81e6	5.62e6	1963.0	2864.6	NO	bd	bd	69.939
13C-123678-HxCDF	35.296	0.960	1.837e5	3.576e5	1.168	0.514	0.510	1434	1963	2.83e6	5.66e6	1974.1	2880.7	NO	db	db	67.097
13C-234678-HxCDF	36.154	0.983	1.673e5	3.354e5	1.023	0.499	0.510	1434	1963	2.71e6	5.43e6	1891.0	2763.7	NO	bb	bb	71.138
13C-123789-HxCDF	37.179	1.011	1.533e5	3.052e5	0.879	0.502	0.510	1434	1963	2.42e6	4.86e6	1684.6	2474.3	NO	bb	bb	75.529
13C-1234678-HpCDF	39.018	1.061	1.233e5	2.825e5	0.925	0.436	0.440	1344	1842	2.08e6	4.67e6	1547.2	2533.4	NO	bb	bb	63.474
13C-1234789-HpCDF	41.290	1.123	1.049e5	2.301e5	0.715	0.456	0.440	1344	1842	1.54e6	3.34e6	1144.7	1815.3	NO	bb	bb	67.850
13C-1234-TCDD	25.851	0.000	3.159e5	4.146e5	1.000	0.762	0.770	1557	1084	5.05e6	6.61e6	3242.6	6097.0	NO	bb	bb	100.000
13C-2378-TCDD	26.668	1.032	2.575e5	3.399e5	1.081	0.757	0.770	1557	1084	3.96e6	5.22e6	2543.2	4811.8	NO	bb	bb	75.633
13C-12378-PeCDD	31.798	1.230	2.372e5	1.489e5	0.776	1.593	1.550	1060	1091	3.66e6	2.31e6	3448.6	2118.7	NO	bb	bb	68.094
13C-123478-HxCDD	36.265	0.986	2.624e5	2.063e5	0.975	1.271	1.240	1464	1311	4.40e6	3.42e6	3005.4	2607.3	NO	bd	bd	69.588
13C-123678-HxCDD	36.377	0.989	2.701e5	2.184e5	1.067	1.237	1.240	1464	1311	4.31e6	3.51e6	2948.0	2674.6	NO	db	db	66.311
13C-1234678-HpCDD	40.533	1.102	1.687e5	1.544e5	0.582	1.093	1.050	1068	1369	2.55e6	2.42e6	2387.5	1766.7	NO	bb	bb	80.418
13C-OCDD	45.357	1.234	2.541e5	2.858e5	0.509	0.889	0.890	1354	1426	3.09e6	3.37e6	2285.5	2363.4	NO	bb	bb	153.683
13C-123789-HxCDD	36.767	0.000	3.848e5	3.061e5	1.000	1.257	1.240	1464	1311	6.20e6	4.86e6	4237.6	3706.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.698	1.033	3.253e5		1.120			861		4.83e6		5610.1			bb		39.754



Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:55:19 Pacific Standard Time

ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.480	0.864	2.812e3	4.078e3	1.300	0.689	0.770	1076	1731	2.71e4	3.79e4	25.2	21.9	NO	bb	bb	0.670
1289-TCDF					0.931		0.770	1076	1731								
13468-PECDF					1.308		1.550	814	777								
12389-PECDF					0.860		1.550	1169	1575								
123468-HXCDF	33.513	0.953	3.171e3	2.579e3	1.156	1.229	1.240	766	812	5.24e4	4.12e4	68.5	50.8	NO	bb	db	0.940
1368-TCDD	23.795	0.892	5.978e3	6.561e3	1.151	0.911	0.770	992	945	9.08e4	1.04e5	91.5	110.3	YES	bb	bb	1.824
1289-TCDD					0.950		0.770	992	945								
12479-PECDD	29.112	0.916	4.554e3	2.450e3	2.164	1.859	1.550	1973	1283	4.65e4	3.29e4	23.5	25.7	YES	bb	db	0.838
12389-PECDD					1.371		1.550	1973	1283								
124679-HXCDD	34.282	0.945	5.541e3	4.201e3	1.153	1.319	1.240	973	1278	9.53e4	6.23e4	97.9	48.7	NO	bb	bb	1.803
1234679-HPCDD	39.485	0.974	2.314e4	2.273e4	1.473	1.018	1.050	1381	1086	3.70e5	3.49e5	268.0	321.5	NO	bb	bb	9.635
Total-tetrafurans			7.297e4		1.072			1076		1.05e6							20.729
Total-penta1			4.368e4					814		6.67e5							12.112
Total-pentafurans			4.229e4		0.924			1169		5.50e5							11.661
Total-hexafurans			4.381e4		1.063			766		6.59e5							14.661
Total-heptafurans			3.538e4		1.218			779		5.57e5							15.159
Total-Furans			2.547e5		1.090			1076		3.69e6							83.391
Total-tetradoxins			5.360e3		1.090			992		8.25e4							1.789
Total-pentadoxins			7.158e3		1.562			1973		1.09e5							1.997
Total-hexadoxins			1.778e4		0.978			973		2.65e5							6.456
Total-heptadoxins			4.304e4		1.371			1381		6.75e5							19.233
Total-Dioxins			1.679e5		1.207			992		2.23e6							98.366
Total-TEQ			4.227e5					992		5.93e6							181.757
FUNCTION1 PFK			4.723e6					283345		5.40e7							
FUNCTION2 PFK			2.526e5					146171		1.96e6							0.000
FUNCTION3 PFK			0.000e0					199772		0.00e0							
FUNCTION4 PFK			5.004e6					173533		2.00e7							
FUNCTION5 PFK			1.312e5					106931		4.49e6							
FUNCTION1 HXCD...			2.779e4					541		4.40e5							0.000
FUNCTION1 HPCD...			1.231e3					621		1.79e4							0.000
FUNCTION2 HPCD...			3.371e3					860		5.24e4							0.000
FUNCTION3 OCDPE			0.000e0					451		0.00e0							
FUNCTION4 NCDPE			2.975e3					558		5.14e4							0.000
FUNCTION5 DCDPE			8.145e1					587		1.07e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:19 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.81	1.639e3	2.347e3	1.072	0.70	0.77	19.5	YES	NO	dd	dd	0.470
2	Total-tetrafurans	24.28	1.412e3	1.881e3	1.072	0.75	0.77	20.3	YES	NO	db	db	0.389
3	Total-tetrafurans	24.04	1.117e4	1.567e4	1.072	0.71	0.77	145.4	YES	NO	dd	dd	3.167
4	Total-tetrafurans	23.78	4.158e3	6.063e3	1.072	0.69	0.77	58.8	YES	NO	dd	dd	1.206
5	Total-tetrafurans	23.67	1.842e3	2.761e3	1.072	0.67	0.77	21.8	YES	NO	dd	dd	0.543
6	Total-tetrafurans	23.51	1.387e3	1.569e3	1.072	0.88	0.77	21.3	YES	NO	dd	dd	0.349
7	Total-tetrafurans	23.37	9.404e3	1.333e4	1.072	0.71	0.77	130.7	YES	NO	bd	bd	2.683
8	Total-tetrafurans	22.80	2.153e3	2.848e3	1.072	0.76	0.77	31.6	YES	NO	bb	bb	0.590
9	1368-TCDF	22.48	2.812e3	4.078e3	1.300	0.69	0.77	25.2	YES	NO	bb	bb	0.670
10	Total-tetrafurans	27.09	2.829e3	3.767e3	1.072	0.75	0.77	43.6	YES	NO	bb	bb	0.778
11	Total-tetrafurans	26.44	9.825e3	1.361e4	1.072	0.72	0.77	137.4	YES	NO	dd	dd	2.765
12	Total-tetrafurans	26.29	2.156e3	2.951e3	1.072	0.73	0.77	24.3	YES	NO	dd	dd	0.603
13	2378-TCDF	26.06	7.206e3	1.042e4	0.985	0.69	0.77	101.3	YES	NO	dd	dd	2.265
14	Total-tetrafurans	25.87	1.081e3	1.372e3	1.072	0.79	0.77	13.8	YES	NO	dd	dd	0.289
15	Total-tetrafurans	25.55	7.341e2	1.001e3	1.072	0.73	0.77	11.5	YES	NO	db	dd	0.205
16	Total-tetrafurans	25.40	5.507e3	7.702e3	1.072	0.72	0.77	68.0	YES	NO	bd	bd	1.559
17	Total-tetrafurans	25.13	1.884e3	2.530e3	1.072	0.74	0.77	23.3	YES	NO	db	db	0.521
18	Total-tetrafurans	24.94	5.776e3	8.416e3	1.072	0.69	0.77	78.5	YES	NO	dd	dd	1.675

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.47	4.368e4	2.941e4		1.48	1.55	819.2	YES	NO	bb	bb	12.112

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.96	2.731e3	1.975e3	0.924	1.38	1.55	29.8	YES	NO	dd	dd	0.786
2	Total-pentafurans	28.52	9.521e2	5.848e2	0.924	1.63	1.55	10.2	YES	NO	bb	db	0.257
3	Total-pentafurans	32.53	2.938e3	2.215e3	0.924	1.33	1.55	34.0	YES	NO	bb	bb	0.860
4	Total-pentafurans	31.42	4.782e3	3.013e3	0.924	1.59	1.55	62.1	YES	NO	dd	dd	1.301
5	Total-pentafurans	30.42	2.061e3	1.168e3	0.924	1.76	1.55	30.5	YES	NO	bb	bb	0.539
6	12378-PeCDF	30.22	9.613e2	6.338e2	0.906	1.52	1.55	11.4	YES	NO	bb	bb	0.268
7	Total-pentafurans	29.85	4.387e3	3.028e3	0.924	1.45	1.55	51.1	YES	NO	db	db	1.238
8	Total-pentafurans	29.26	4.086e3	2.820e3	0.924	1.45	1.55	62.5	YES	NO	db	db	1.153
9	Total-pentafurans	29.13	1.940e4	1.211e4	0.924	1.60	1.55	179.0	YES	NO	dd	dd	5.259

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	36.14	2.921e3	2.472e3	1.101	1.18	1.24	43.4	YES	NO	bb	bb	0.974
2	123678-HxCDF	35.31	1.733e3	1.543e3	1.019	1.12	1.24	36.9	YES	NO	db	db	0.594
3	123478-HxCDF	35.17	3.169e3	2.622e3	1.045	1.21	1.24	64.6	YES	NO	dd	dd	1.047
4	Total-hexafurans	35.02	6.888e2	6.133e2	1.063	1.12	1.24	15.4	YES	NO	bd	bd	0.241
5	Total-hexafurans	34.55	1.591e4	1.314e4	1.063	1.21	1.24	325.4	YES	NO	bb	bb	5.383
6	Total-hexafurans	33.99	2.561e2	2.207e2	1.063	1.16	1.24	6.3	YES	NO	bb	bb	0.088
7	Total-hexafurans	33.73	1.536e4	1.242e4	1.063	1.24	1.24	290.6	YES	NO	bb	bb	5.146
8	123468-HxCDF	33.51	3.171e3	2.579e3	1.156	1.23	1.24	68.5	YES	NO	bb	db	0.940
9	123789-HxCDF	37.15	5.943e2	5.307e2	0.992	1.12	1.24	9.6	YES	NO	MM	bb	0.247

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.31	1.052e3	9.907e2	1.192	1.06	1.05	18.4	YES	NO	bb	bb	0.511
2	Total-heptafurans	39.70	2.102e4	2.112e4	1.218	1.00	1.05	420.5	YES	NO	bd	bb	9.342
3	1234678-HpCDF	39.03	1.331e4	1.346e4	1.243	0.99	1.05	275.4	YES	NO	bb	bb	5.306

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:19 Pacific Standard Time

ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.81	1.639e3	2.347e3	1.072	0.70	0.77	19.5	YES	NO	dd	dd	0.470
2	Total-tetrafurans	24.28	1.412e3	1.881e3	1.072	0.75	0.77	20.3	YES	NO	db	db	0.389
3	Total-tetrafurans	24.04	1.117e4	1.567e4	1.072	0.71	0.77	145.4	YES	NO	dd	dd	3.167
4	Total-tetrafurans	23.78	4.158e3	6.063e3	1.072	0.69	0.77	58.8	YES	NO	dd	dd	1.206
5	Total-tetrafurans	23.67	1.842e3	2.761e3	1.072	0.67	0.77	21.8	YES	NO	dd	dd	0.543
6	Total-tetrafurans	23.51	1.387e3	1.569e3	1.072	0.88	0.77	21.3	YES	NO	dd	dd	0.349
7	Total-tetrafurans	23.37	9.404e3	1.333e4	1.072	0.71	0.77	130.7	YES	NO	bd	bd	2.683
8	Total-tetrafurans	22.80	2.153e3	2.848e3	1.072	0.76	0.77	31.6	YES	NO	bb	bb	0.590
9	1368-TCDF	22.48	2.812e3	4.078e3	1.300	0.69	0.77	25.2	YES	NO	bb	bb	0.670
10	Total-Furans	27.95	2.317e3	2.982e3	1.090	0.78	0.77	32.6	YES	NO	bb	bb	0.615
11	Total-tetrafurans	27.09	2.829e3	3.767e3	1.072	0.75	0.77	43.6	YES	NO	bb	bb	0.778
12	Total-tetrafurans	26.44	9.825e3	1.361e4	1.072	0.72	0.77	137.4	YES	NO	dd	dd	2.765
13	Total-tetrafurans	26.29	2.156e3	2.951e3	1.072	0.73	0.77	24.3	YES	NO	dd	dd	0.603
14	2378-TCDF	26.06	7.206e3	1.042e4	0.985	0.69	0.77	101.3	YES	NO	dd	dd	2.265
15	Total-tetrafurans	25.87	1.081e3	1.372e3	1.072	0.79	0.77	13.8	YES	NO	dd	dd	0.289
16	Total-tetrafurans	25.55	7.341e2	1.001e3	1.072	0.73	0.77	11.5	YES	NO	db	dd	0.205
17	Total-tetrafurans	25.40	5.507e3	7.702e3	1.072	0.72	0.77	68.0	YES	NO	bd	bd	1.559
18	Total-tetrafurans	25.13	1.884e3	2.530e3	1.072	0.74	0.77	23.3	YES	NO	db	db	0.521
19	Total-tetrafurans	24.94	5.776e3	8.416e3	1.072	0.69	0.77	78.5	YES	NO	dd	dd	1.675
20	Total-pentafurans	28.96	2.731e3	1.975e3	0.924	1.38	1.55	29.8	YES	NO	dd	dd	0.786
21	Total-pentafurans	28.52	9.521e2	5.848e2	0.924	1.63	1.55	10.2	YES	NO	bb	db	0.257
22	Total-pentafurans	32.53	2.938e3	2.215e3	0.924	1.33	1.55	34.0	YES	NO	bb	bb	0.860
23	Total-pentafurans	31.42	4.782e3	3.013e3	0.924	1.59	1.55	62.1	YES	NO	dd	dd	1.301
24	Total-pentafurans	30.42	2.061e3	1.168e3	0.924	1.76	1.55	30.5	YES	NO	bb	bb	0.539
25	12378-PeCDF	30.22	9.613e2	6.338e2	0.906	1.52	1.55	11.4	YES	NO	bb	bb	0.268
26	Total-pentafurans	29.85	4.387e3	3.028e3	0.924	1.45	1.55	51.1	YES	NO	db	db	1.238
27	Total-pentafurans	29.26	4.086e3	2.820e3	0.924	1.45	1.55	62.5	YES	NO	db	db	1.153
28	Total-pentafurans	29.13	1.940e4	1.211e4	0.924	1.60	1.55	179.0	YES	NO	dd	dd	5.259
29	234678-HxCDF	36.14	2.921e3	2.472e3	1.101	1.18	1.24	43.4	YES	NO	bb	bb	0.974
30	123678-HxCDF	35.31	1.733e3	1.543e3	1.019	1.12	1.24	36.9	YES	NO	db	db	0.594
31	123478-HxCDF	35.17	3.169e3	2.622e3	1.045	1.21	1.24	64.6	YES	NO	dd	dd	1.047
32	Total-hexafurans	35.02	6.888e2	6.133e2	1.063	1.12	1.24	15.4	YES	NO	bd	bd	0.241
33	Total-hexafurans	34.55	1.591e4	1.314e4	1.063	1.21	1.24	325.4	YES	NO	bb	bb	5.383
34	Total-hexafurans	33.99	2.561e2	2.207e2	1.063	1.16	1.24	6.3	YES	NO	bb	bb	0.088
35	Total-hexafurans	33.73	1.536e4	1.242e4	1.063	1.24	1.24	290.6	YES	NO	bb	bb	5.146
36	123468-HxCDF	33.51	3.171e3	2.579e3	1.156	1.23	1.24	68.5	YES	NO	bb	db	0.940
37	123789-HxCDF	37.15	5.943e2	5.307e2	0.992	1.12	1.24	9.6	YES	NO	MM	bb	0.247

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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Printed: Friday, December 30, 2022 09:55:19 Pacific Standard Time

**ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234789-HpCDF	41.31	1.052e3	9.907e2	1.192	1.06	1.05	18.4	YES	NO	bb	bb	0.511
39	Total-heptafurans	39.70	2.102e4	2.112e4	1.218	1.00	1.05	420.5	YES	NO	bd	bb	9.342
40	1234678-HpCDF	39.03	1.331e4	1.346e4	1.243	0.99	1.05	275.4	YES	NO	bb	bb	5.306
41	OCDF	45.62	1.428e4	1.545e4	1.303	0.92	0.89	229.9	YES	NO	bb	bd	8.453
42	Total-penta1	27.47	4.368e4	2.941e4		1.48	1.55	819.2	YES	NO	bb	bb	12.112

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	26.31	8.277e2	1.120e3	1.090	0.74	0.77	9.2	YES	NO	bb	bb	0.299
2	Total-tetradioxins	24.81	5.827e2	6.828e2	1.090	0.85	0.77	10.4	YES	NO	bb	bb	0.194
3	Total-tetradioxins	24.07	3.950e3	4.481e3	1.090	0.88	0.77	63.6	YES	NO	bb	bb	1.295

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.22	3.927e3	2.551e3	1.562	1.54	1.55	29.9	YES	NO	bb	bb	1.074
2	Total-pentadioxins	30.57	3.230e3	2.339e3	1.562	1.38	1.55	25.3	YES	NO	dd	dd	0.923

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	35.41	5.846e3	4.768e3	0.978	1.23	1.24	69.7	YES	NO	dd	bb	2.269
2	Total-hexadioxins	35.05	6.397e3	4.755e3	0.978	1.35	1.24	104.9	YES	NO	bd	bb	2.384
3	124679-HXCDD	34.28	5.541e3	4.201e3	1.153	1.32	1.24	97.9	YES	NO	bb	bb	1.803

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.55	1.990e4	1.943e4	1.268	1.02	1.05	220.9	YES	NO	bb	bd	9.597
2	1234679-HPCDD	39.49	2.314e4	2.273e4	1.473	1.02	1.05	268.0	YES	NO	bb	bb	9.635

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk****Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.31	8.277e2	1.120e3	1.090	0.74	0.77	9.2	YES	NO	bb	bb	0.299
2	Total-tetradoxins	24.81	5.827e2	6.828e2	1.090	0.85	0.77	10.4	YES	NO	bb	bb	0.194
3	Total-tetradoxins	24.07	3.950e3	4.481e3	1.090	0.88	0.77	63.6	YES	NO	bb	bb	1.295
4	Total-pentadoxins	30.22	3.927e3	2.551e3	1.562	1.54	1.55	29.9	YES	NO	bb	bb	1.074
5	Total-pentadoxins	30.57	3.230e3	2.339e3	1.562	1.38	1.55	25.3	YES	NO	dd	dd	0.923
6	Total-hexadoxins	35.41	5.846e3	4.768e3	0.978	1.23	1.24	69.7	YES	NO	dd	bb	2.269
7	Total-hexadoxins	35.05	6.397e3	4.755e3	0.978	1.35	1.24	104.9	YES	NO	bd	bb	2.384
8	124679-HXCDD	34.28	5.541e3	4.201e3	1.153	1.32	1.24	97.9	YES	NO	bb	bb	1.803
9	1234678-HpCDD	40.55	1.990e4	1.943e4	1.268	1.02	1.05	220.9	YES	NO	bb	bd	9.597
10	1234679-HPCDD	39.49	2.314e4	2.273e4	1.473	1.02	1.05	268.0	YES	NO	bb	bb	9.635
11	OCDD	45.38	9.459e4	1.080e5	1.089	0.88	0.89	757.0	YES	NO	bd	bd	68.892

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.81	1.639e3	2.347e3	1.072	0.70	0.77	19.5	YES	NO	dd	dd	0.470
2	Total-tetrafurans	24.28	1.412e3	1.881e3	1.072	0.75	0.77	20.3	YES	NO	db	db	0.389
3	Total-tetrafurans	24.04	1.117e4	1.567e4	1.072	0.71	0.77	145.4	YES	NO	dd	dd	3.167
4	Total-tetrafurans	23.78	4.158e3	6.063e3	1.072	0.69	0.77	58.8	YES	NO	dd	dd	1.206
5	Total-tetrafurans	23.67	1.842e3	2.761e3	1.072	0.67	0.77	21.8	YES	NO	dd	dd	0.543
6	Total-tetrafurans	23.51	1.387e3	1.569e3	1.072	0.88	0.77	21.3	YES	NO	dd	dd	0.349
7	Total-tetrafurans	23.37	9.404e3	1.333e4	1.072	0.71	0.77	130.7	YES	NO	bd	bd	2.683
8	Total-tetrafurans	22.80	2.153e3	2.848e3	1.072	0.76	0.77	31.6	YES	NO	bb	bb	0.590
9	1368-TCDF	22.48	2.812e3	4.078e3	1.300	0.69	0.77	25.2	YES	NO	bb	bb	0.670
10	Total-Furans	27.95	2.317e3	2.982e3	1.090	0.78	0.77	32.6	YES	NO	bb	bb	0.615
11	Total-tetrafurans	27.09	2.829e3	3.767e3	1.072	0.75	0.77	43.6	YES	NO	bb	bb	0.778
12	Total-tetrafurans	26.44	9.825e3	1.361e4	1.072	0.72	0.77	137.4	YES	NO	dd	dd	2.765
13	Total-tetrafurans	26.29	2.156e3	2.951e3	1.072	0.73	0.77	24.3	YES	NO	dd	dd	0.603
14	2378-TCDF	26.06	7.206e3	1.042e4	0.985	0.69	0.77	101.3	YES	NO	dd	dd	2.265
15	Total-tetrafurans	25.87	1.081e3	1.372e3	1.072	0.79	0.77	13.8	YES	NO	dd	dd	0.289
16	Total-tetrafurans	25.55	7.341e2	1.001e3	1.072	0.73	0.77	11.5	YES	NO	db	dd	0.205
17	Total-tetrafurans	25.40	5.507e3	7.702e3	1.072	0.72	0.77	68.0	YES	NO	bd	bd	1.559
18	Total-tetrafurans	25.13	1.884e3	2.530e3	1.072	0.74	0.77	23.3	YES	NO	db	db	0.521
19	Total-tetrafurans	24.94	5.776e3	8.416e3	1.072	0.69	0.77	78.5	YES	NO	dd	dd	1.675
20	Total-pentafurans	28.96	2.731e3	1.975e3	0.924	1.38	1.55	29.8	YES	NO	dd	dd	0.786
21	Total-pentafurans	28.52	9.521e2	5.848e2	0.924	1.63	1.55	10.2	YES	NO	bb	db	0.257
22	Total-pentafurans	32.53	2.938e3	2.215e3	0.924	1.33	1.55	34.0	YES	NO	bb	bb	0.860
23	Total-pentafurans	31.42	4.782e3	3.013e3	0.924	1.59	1.55	62.1	YES	NO	dd	dd	1.301
24	Total-pentafurans	30.42	2.061e3	1.168e3	0.924	1.76	1.55	30.5	YES	NO	bb	bb	0.539
25	12378-PeCDF	30.22	9.613e2	6.338e2	0.906	1.52	1.55	11.4	YES	NO	bb	bb	0.268
26	Total-pentafurans	29.85	4.387e3	3.028e3	0.924	1.45	1.55	51.1	YES	NO	db	db	1.238
27	Total-pentafurans	29.26	4.086e3	2.820e3	0.924	1.45	1.55	62.5	YES	NO	db	db	1.153
28	Total-pentafurans	29.13	1.940e4	1.211e4	0.924	1.60	1.55	179.0	YES	NO	dd	dd	5.259
29	234678-HxCDF	36.14	2.921e3	2.472e3	1.101	1.18	1.24	43.4	YES	NO	bb	bb	0.974
30	123678-HxCDF	35.31	1.733e3	1.543e3	1.019	1.12	1.24	36.9	YES	NO	db	db	0.594
31	123478-HxCDF	35.17	3.169e3	2.622e3	1.045	1.21	1.24	64.6	YES	NO	dd	dd	1.047
32	Total-hexafurans	35.02	6.888e2	6.133e2	1.063	1.12	1.24	15.4	YES	NO	bd	bd	0.241
33	Total-hexafurans	34.55	1.591e4	1.314e4	1.063	1.21	1.24	325.4	YES	NO	bb	bb	5.383
34	Total-hexafurans	33.99	2.561e2	2.207e2	1.063	1.16	1.24	6.3	YES	NO	bb	bb	0.088
35	Total-hexafurans	33.73	1.536e4	1.242e4	1.063	1.24	1.24	290.6	YES	NO	bb	bb	5.146
36	123468-HxCDF	33.51	3.171e3	2.579e3	1.156	1.23	1.24	68.5	YES	NO	bb	db	0.940
37	123789-HxCDF	37.15	5.943e2	5.307e2	0.992	1.12	1.24	9.6	YES	NO	MM	bb	0.247

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234789-HpCDF	41.31	1.052e3	9.907e2	1.192	1.06	1.05	18.4	YES	NO	bb	bb	0.511
39	Total-heptafurans	39.70	2.102e4	2.112e4	1.218	1.00	1.05	420.5	YES	NO	bd	bb	9.342
40	1234678-HpCDF	39.03	1.331e4	1.346e4	1.243	0.99	1.05	275.4	YES	NO	bb	bb	5.306
41	OCDF	45.62	1.428e4	1.545e4	1.303	0.92	0.89	229.9	YES	NO	bb	bd	8.453
42	Total-penta1	27.47	4.368e4	2.941e4		1.48	1.55	819.2	YES	NO	bb	bb	12.112
43	Total-tetradoxins	26.31	8.277e2	1.120e3	1.090	0.74	0.77	9.2	YES	NO	bb	bb	0.299
44	Total-tetradoxins	24.81	5.827e2	6.828e2	1.090	0.85	0.77	10.4	YES	NO	bb	bb	0.194
45	Total-tetradoxins	24.07	3.950e3	4.481e3	1.090	0.88	0.77	63.6	YES	NO	bb	bb	1.295
46	Total-pentadoxins	30.22	3.927e3	2.551e3	1.562	1.54	1.55	29.9	YES	NO	bb	bb	1.074
47	Total-pentadoxins	30.57	3.230e3	2.339e3	1.562	1.38	1.55	25.3	YES	NO	dd	dd	0.923
48	Total-hexadoxins	35.41	5.846e3	4.768e3	0.978	1.23	1.24	69.7	YES	NO	dd	bb	2.269
49	Total-hexadoxins	35.05	6.397e3	4.755e3	0.978	1.35	1.24	104.9	YES	NO	bd	bb	2.384
50	124679-HXCDD	34.28	5.541e3	4.201e3	1.153	1.32	1.24	97.9	YES	NO	bb	bb	1.803
51	1234678-HpCDD	40.55	1.990e4	1.943e4	1.268	1.02	1.05	220.9	YES	NO	bb	bd	9.597
52	1234679-HPCDD	39.49	2.314e4	2.273e4	1.473	1.02	1.05	268.0	YES	NO	bb	bb	9.635
53	OCDD	45.38	9.459e4	1.080e5	1.089	0.88	0.89	757.0	YES	NO	bd	bd	68.892



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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.24	1.250e4					1.8	NO		bd		
2	FUNCTION1 PFK	21.16	1.714e4					1.6	NO		bb		
3	FUNCTION1 PFK	23.11	6.430e4					3.5	YES		dd		
4	FUNCTION1 PFK	23.04	8.024e4					4.3	YES		dd		
5	FUNCTION1 PFK	22.95	1.790e5					5.5	YES		dd		
6	FUNCTION1 PFK	22.80	1.392e5					6.1	YES		dd		
7	FUNCTION1 PFK	22.66	3.188e5					7.3	YES		dd		
8	FUNCTION1 PFK	22.51	2.675e5					8.5	YES		dd		
9	FUNCTION1 PFK	22.42	3.106e5					9.1	YES		bd		
10	FUNCTION1 PFK	22.24	3.223e5					9.2	YES		db		
11	FUNCTION1 PFK	22.06	3.933e5					9.1	YES		dd		
12	FUNCTION1 PFK	21.97	1.438e5					8.9	YES		dd		
13	FUNCTION1 PFK	21.91	1.493e5					9.0	YES		dd		
14	FUNCTION1 PFK	21.86	1.140e5					9.0	YES		dd		
15	FUNCTION1 PFK	21.75	2.808e5					9.9	YES		dd		
16	FUNCTION1 PFK	21.69	2.460e5					8.7	YES		bd		
17	FUNCTION1 PFK	21.50	3.617e5					10.8	YES		db		
18	FUNCTION1 PFK	21.38	2.607e5					7.7	YES		dd		
19	FUNCTION1 PFK	25.05	1.321e4					1.3	NO		dd		
20	FUNCTION1 PFK	24.97	1.497e4					1.0	NO		dd		
21	FUNCTION1 PFK	24.90	1.637e4					1.3	NO		dd		
22	FUNCTION1 PFK	24.84	1.175e4					0.9	NO		dd		
23	FUNCTION1 PFK	24.78	1.698e4					1.2	NO		bd		
24	FUNCTION1 PFK	24.57	1.693e4					1.0	NO		db		
25	FUNCTION1 PFK	24.46	2.024e4					1.3	NO		dd		
26	FUNCTION1 PFK	24.32	4.321e4					1.7	NO		bd		
27	FUNCTION1 PFK	24.07	2.771e4					2.0	NO		db		
28	FUNCTION1 PFK	23.99	6.746e4					2.5	NO		dd		
29	FUNCTION1 PFK	23.84	6.340e4					2.9	NO		bd		
30	FUNCTION1 PFK	23.72	4.360e4					3.2	YES		db		
31	FUNCTION1 PFK	23.67	4.530e4					2.9	NO		dd		
32	FUNCTION1 PFK	23.61	6.707e4					2.8	NO		bd		
33	FUNCTION1 PFK	23.24	4.686e4					1.9	NO		db		
34	FUNCTION1 PFK	23.16	3.738e4					2.8	NO		dd		
35	FUNCTION1 PFK	27.02	1.493e4					0.9	NO		bd		
36	FUNCTION1 PFK	26.89	1.407e4					1.4	NO		bb		
37	FUNCTION1 PFK	26.82	1.687e4					1.4	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:19 Pacific Standard Time

**ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	26.70	1.645e4					1.2	NO		bb		
39	FUNCTION1 PFK	26.40	1.640e4					1.3	NO		db		
40	FUNCTION1 PFK	26.21	6.340e4					2.0	NO		dd		
41	FUNCTION1 PFK	26.09	3.808e4					1.4	NO		bd		
42	FUNCTION1 PFK	26.00	1.498e4					1.2	NO		bb		
43	FUNCTION1 PFK	25.82	4.700e3					0.5	NO		bb		
44	FUNCTION1 PFK	25.53	1.080e4					0.8	NO		bb		
45	FUNCTION1 PFK	25.44	9.447e3					1.1	NO		db		
46	FUNCTION1 PFK	25.40	1.775e4					1.3	NO		dd		
47	FUNCTION1 PFK	25.35	5.706e3					0.7	NO		dd		
48	FUNCTION1 PFK	25.28	1.673e4					1.0	NO		bd		
49	FUNCTION1 PFK	25.17	1.059e4					0.8	NO		db		
50	FUNCTION1 PFK	25.11	4.971e3					0.6	NO		dd		
51	FUNCTION1 PFK	28.13	1.992e4					1.4	NO		db		
52	FUNCTION1 PFK	28.09	3.895e4					1.6	NO		bd		
53	FUNCTION1 PFK	27.85	6.513e4					2.4	NO		db		
54	FUNCTION1 PFK	27.73	2.892e4					1.4	NO		dd		
55	FUNCTION1 PFK	27.67	1.562e4					1.2	NO		bd		
56	FUNCTION1 PFK	27.54	2.373e4					1.0	NO		bb		
57	FUNCTION1 PFK	27.47	4.065e3					0.6	NO		bb		
58	FUNCTION1 PFK	27.41	1.351e4					1.1	NO		bb		
59	FUNCTION1 PFK	27.23	2.561e3					0.3	NO		db		
60	FUNCTION1 PFK	27.17	5.144e3					0.5	NO		bd		
61	FUNCTION1 PFK	27.08	1.603e4					1.2	NO		db		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.95	1.146e5					6.1	YES		bb		0.000
2	FUNCTION2 PFK	31.41	3.277e3					1.3	NO		bb		0.000
3	FUNCTION2 PFK	28.33	1.347e5					6.0	YES		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:19 Pacific Standard Time

ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.58	9.866e3					1.7	NO		bb		
2	FUNCTION4 PFK	40.22	5.970e3					1.5	NO		bb		
3	FUNCTION4 PFK	38.84	3.793e6					15.1	YES		db		
4	FUNCTION4 PFK	38.14	4.454e5					47.3	YES		dd		
5	FUNCTION4 PFK	38.07	7.493e5					49.4	YES		bd		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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**ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk****PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.04	2.681e3					0.9	NO		bd		
2	FUNCTION5 PFK	43.96	1.979e3					0.9	NO		bb		
3	FUNCTION5 PFK	43.88	4.530e2					0.5	NO		bb		
4	FUNCTION5 PFK	43.80	1.687e3					0.8	NO		bb		
5	FUNCTION5 PFK	43.76	5.235e3					1.5	NO		db		
6	FUNCTION5 PFK	43.71	1.477e3					0.7	NO		bd		
7	FUNCTION5 PFK	43.56	5.763e3					2.0	NO		db		
8	FUNCTION5 PFK	43.51	1.531e4					2.6	NO		dd		
9	FUNCTION5 PFK	43.41	4.152e3					1.3	NO		bd		
10	FUNCTION5 PFK	45.47	4.364e2					0.4	NO		bb		
11	FUNCTION5 PFK	45.39	1.115e3					0.5	NO		bb		
12	FUNCTION5 PFK	45.33	8.932e2					0.5	NO		bb		
13	FUNCTION5 PFK	45.29	2.716e3					1.3	NO		bb		
14	FUNCTION5 PFK	45.21	4.751e3					1.5	NO		bb		
15	FUNCTION5 PFK	45.16	4.548e3					2.2	NO		bb		
16	FUNCTION5 PFK	45.04	2.258e3					1.0	NO		bb		
17	FUNCTION5 PFK	44.95	3.894e3					1.5	NO		bb		
18	FUNCTION5 PFK	44.91	5.006e3					1.7	NO		bb		
19	FUNCTION5 PFK	44.84	3.296e3					1.1	NO		bb		
20	FUNCTION5 PFK	44.66	2.816e3					1.2	NO		db		
21	FUNCTION5 PFK	44.62	1.956e3					1.0	NO		bd		
22	FUNCTION5 PFK	44.32	1.859e3					1.0	NO		bb		
23	FUNCTION5 PFK	44.19	5.829e3					1.5	NO		bb		
24	FUNCTION5 PFK	44.16	3.398e3					0.9	NO		db		
25	FUNCTION5 PFK	44.08	4.972e3					1.3	NO		dd		
26	FUNCTION5 PFK	46.39	4.561e3					1.5	NO		db		
27	FUNCTION5 PFK	46.30	1.096e4					1.7	NO		dd		
28	FUNCTION5 PFK	46.20	9.350e3					1.7	NO		bd		
29	FUNCTION5 PFK	46.14	2.186e3					1.0	NO		bb		
30	FUNCTION5 PFK	45.94	1.596e3					1.0	NO		bb		
31	FUNCTION5 PFK	45.91	3.171e3					0.9	NO		bb		
32	FUNCTION5 PFK	45.76	2.917e3					1.3	NO		db		
33	FUNCTION5 PFK	45.71	2.258e3					0.8	NO		bd		
34	FUNCTION5 PFK	45.63	1.007e3					0.6	NO		bb		
35	FUNCTION5 PFK	45.51	4.683e3					1.6	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

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ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	24.26	1.135e2					4.4	YES		bb		0.000
2	FUNCTION1 HXCD...	24.04	4.830e3					147.7	YES		bb		0.000
3	FUNCTION1 HXCD...	23.04	1.059e2					2.8	NO		bb		0.000
4	FUNCTION1 HXCD...	21.48	1.013e2					1.9	NO		bb		0.000
5	FUNCTION1 HXCD...	21.09	7.819e1					1.7	NO		bb		0.000
6	FUNCTION1 HXCD...	27.95	1.385e3					37.0	YES		bb		0.000
7	FUNCTION1 HXCD...	27.67	7.677e1					2.9	NO		bb		0.000
8	FUNCTION1 HXCD...	27.08	2.401e3					67.2	YES		bb		0.000
9	FUNCTION1 HXCD...	26.43	9.714e3					287.9	YES		bb		0.000
10	FUNCTION1 HXCD...	26.20	1.249e3					38.6	YES		db		0.000
11	FUNCTION1 HXCD...	26.05	4.118e3					112.8	YES		bd		0.000
12	FUNCTION1 HXCD...	25.91	7.101e1					2.1	NO		bb		0.000
13	FUNCTION1 HXCD...	25.40	3.385e3					102.2	YES		bb		0.000
14	FUNCTION1 HXCD...	24.75	1.637e2					4.1	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	22.31	8.922e1					2.1	NO		db		0.000
2	FUNCTION1 HPCD...	22.27	9.381e1					2.8	NO		bd		0.000
3	FUNCTION1 HPCD...	21.88	7.468e1					1.3	NO		db		0.000
4	FUNCTION1 HPCD...	21.72	1.124e2					2.2	NO		dd		0.000
5	FUNCTION1 HPCD...	21.63	1.125e2					2.2	NO		dd		0.000
6	FUNCTION1 HPCD...	21.45	1.773e2					1.9	NO		bd		0.000
7	FUNCTION1 HPCD...	26.56	7.929e1					3.4	YES		bb		0.000
8	FUNCTION1 HPCD...	26.18	7.100e1					2.5	NO		bb		0.000
9	FUNCTION1 HPCD...	25.31	7.608e1					4.0	YES		bb		0.000
10	FUNCTION1 HPCD...	24.61	7.410e1					1.6	NO		bb		0.000
11	FUNCTION1 HPCD...	23.60	1.582e2					2.4	NO		db		0.000
12	FUNCTION1 HPCD...	23.45	1.127e2					2.4	NO		bd		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.52	1.307e3					22.1	YES		bb		0.000
2	FUNCTION2 HPCD...	31.42	3.157e2					5.6	YES		bb		0.000
3	FUNCTION2 HPCD...	29.26	1.748e3					33.2	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	43.02	8.257e1					3.9	YES		bb		0.000
2	FUNCTION4 NCDPE	40.23	1.041e2					4.0	YES		bb		0.000
3	FUNCTION4 NCDPE	38.67	2.789e3					84.2	YES		bb		0.000

**ETHERS6**

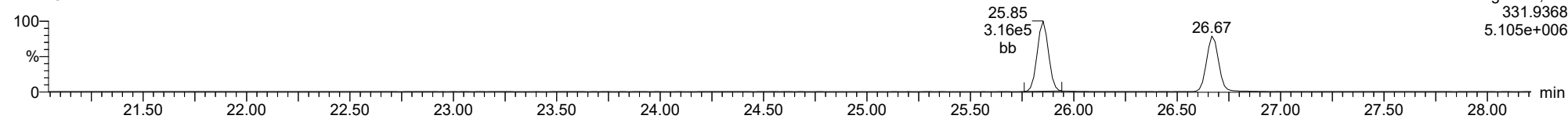
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.63	8.145e1					1.8	NO		bb		0.000

**Method:** T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

**ID:** 22L0246-09, **Name:** 22122821, **Date:** 29-Dec-2022, **Time:** 03:21:42, **Conditions:** AUTOSPEC01, **User:** pk

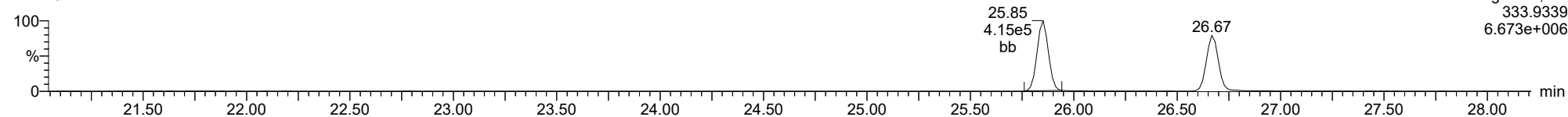
**13C-1234-TCDD**

22122821



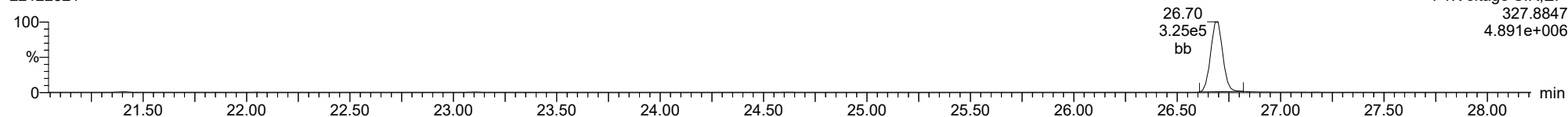
**13C-1234-TCDD**

22122821



**37CL-2378-TCDD**

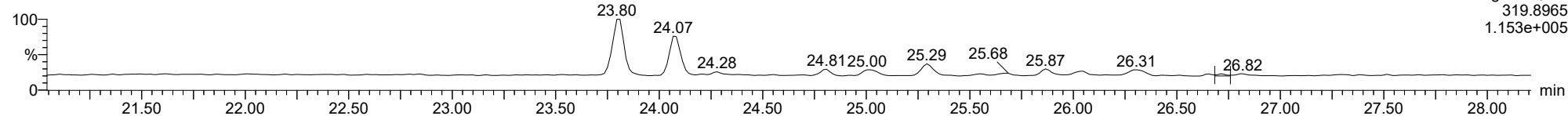
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ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

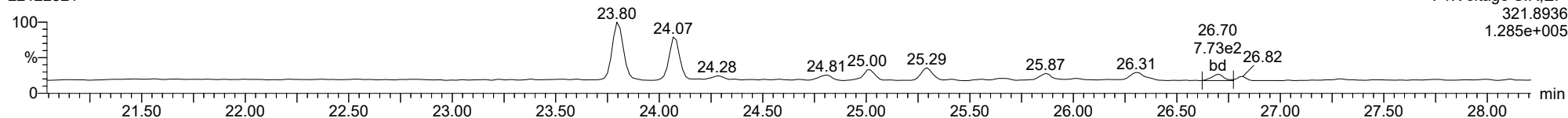
**2378-TCDD**

22122821



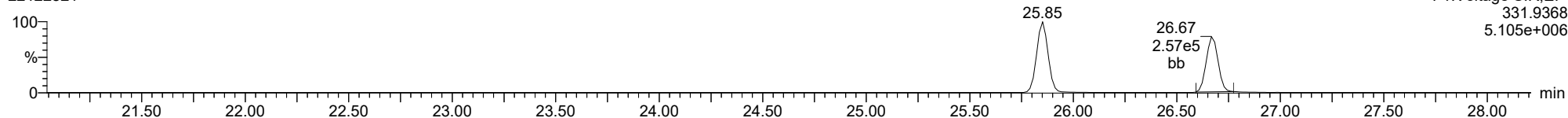
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22122821



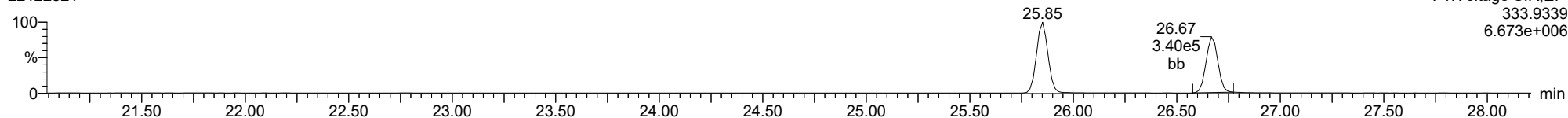
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22122821



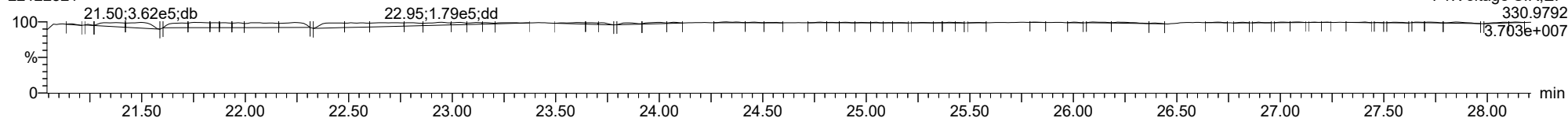
**13C-2378-TCDD**

22122821



**FUNCTION1 PFK**

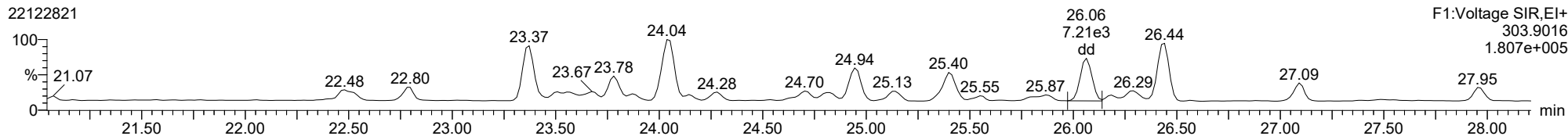
22122821



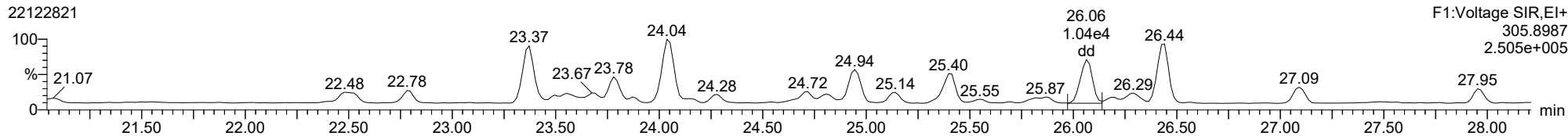


ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

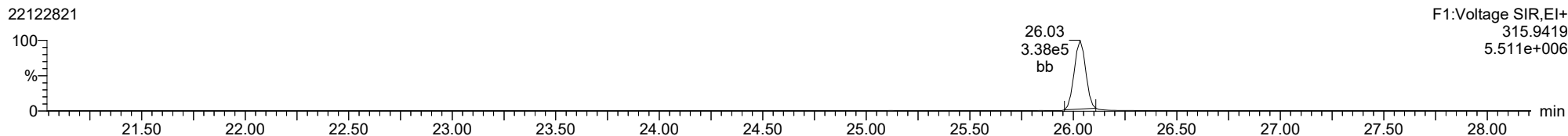
2378-TCDF



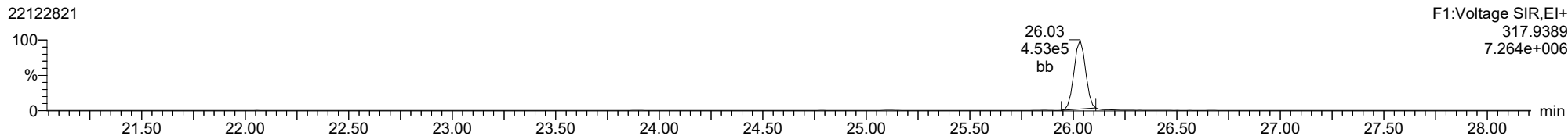
2378-TCDF



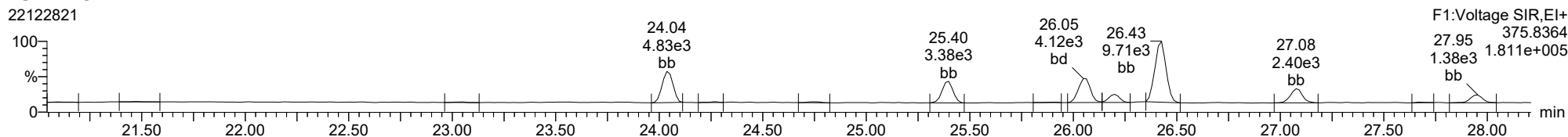
13C-2378-TCDF



13C-2378-TCDF

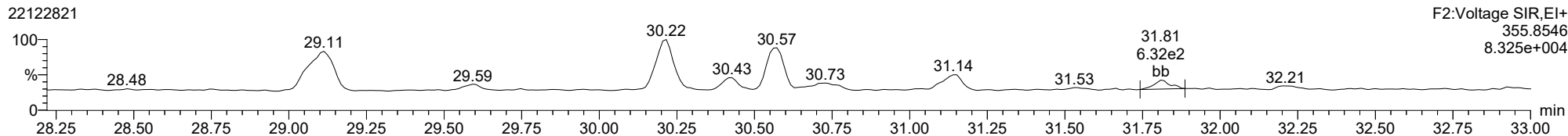


FUNCTION1 HXCDPE

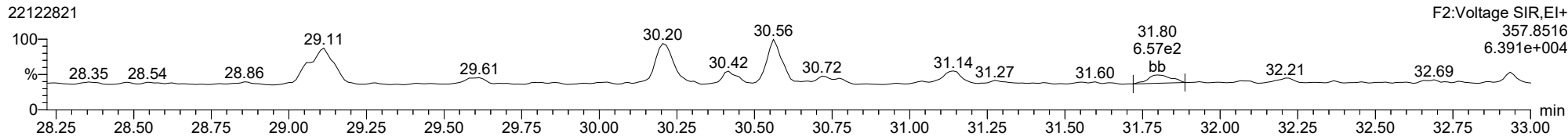


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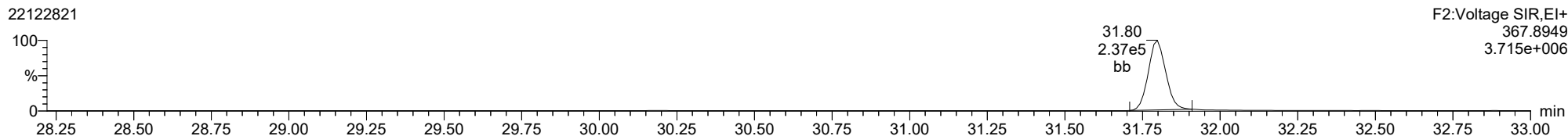
12378-PeCDD



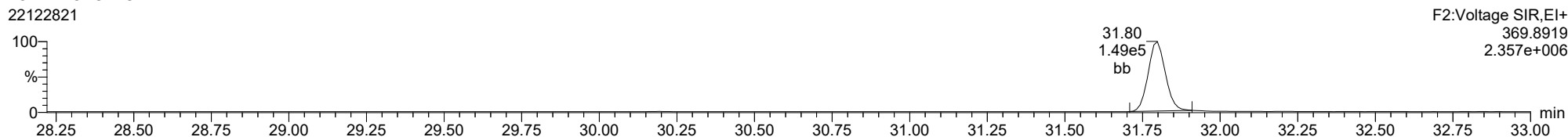
12378-PeCDD



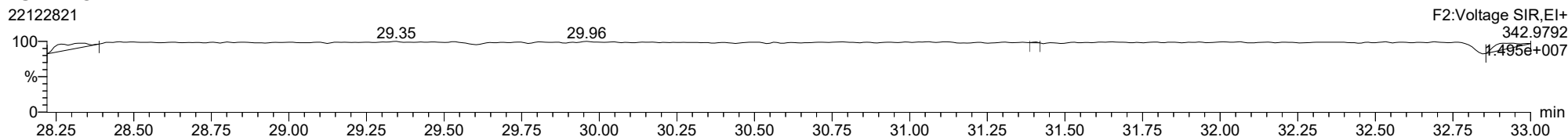
13C-12378-PeCDD



13C-12378-PeCDD

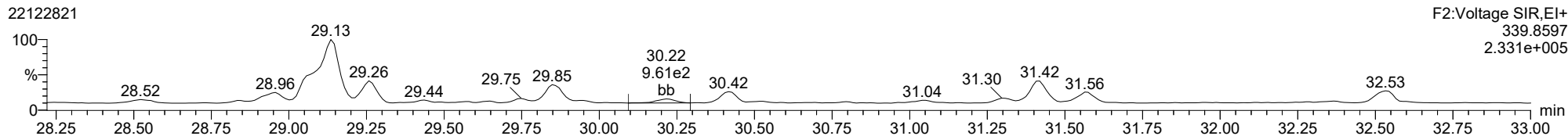


FUNCTION2 PFK

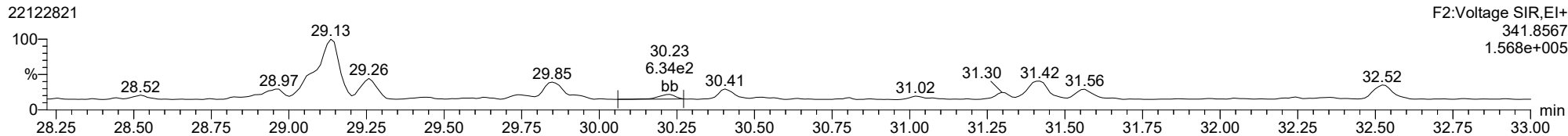


ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

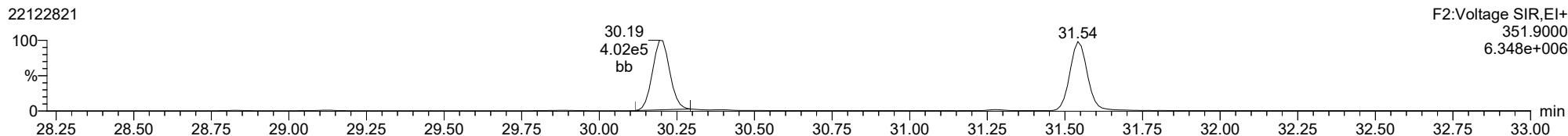
12378-PeCDF



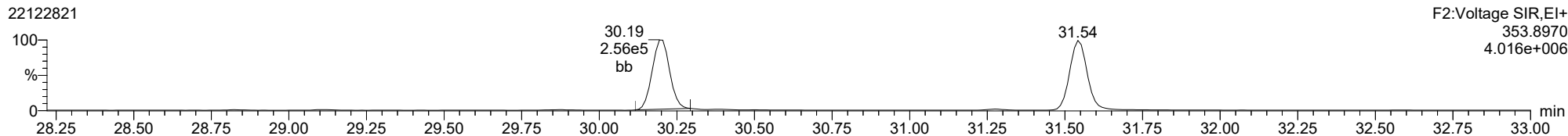
12378-PeCDF



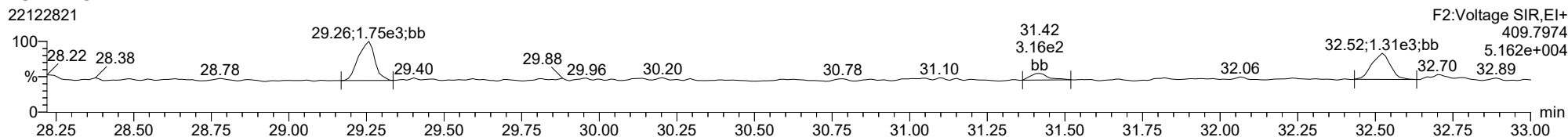
13C-12378-PeCDF



13C-12378-PeCDF

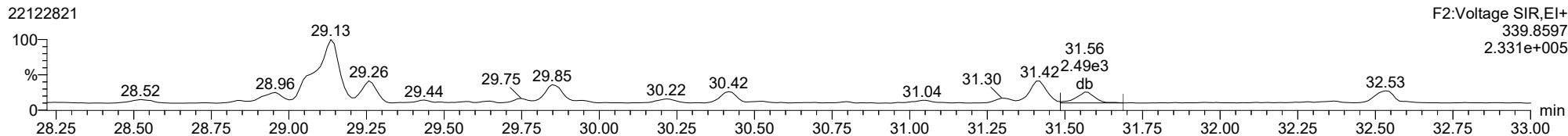


FUNCTION2 HPCDPE

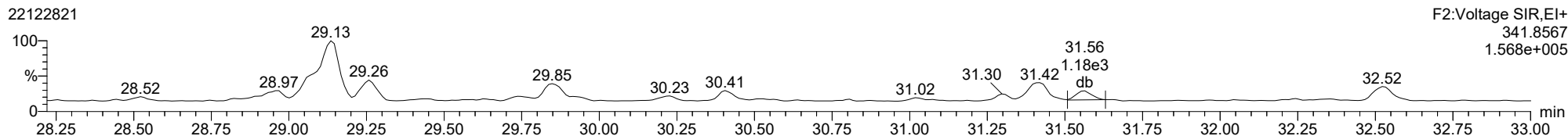


ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

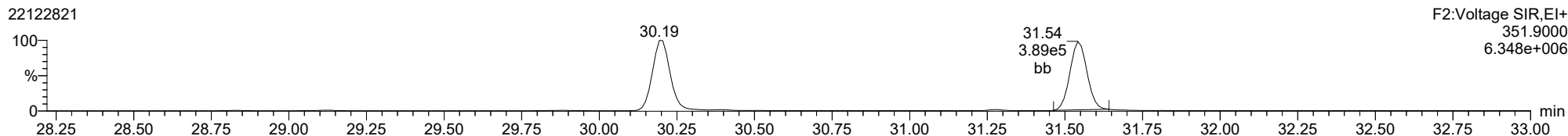
**23478-PeCDF**



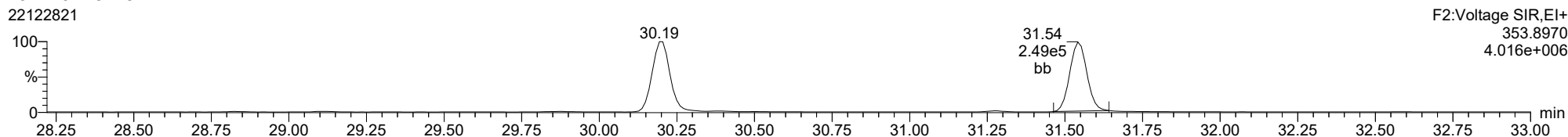
**23478-PeCDF**



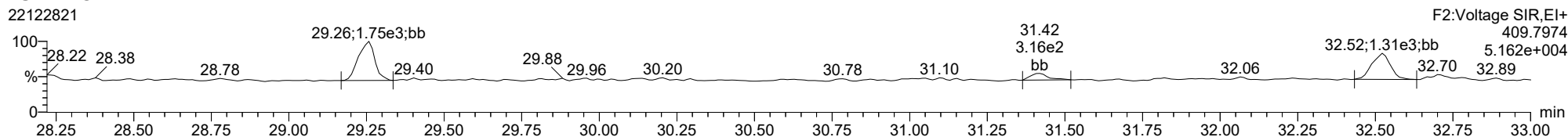
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**13C-23478-PeCDF**

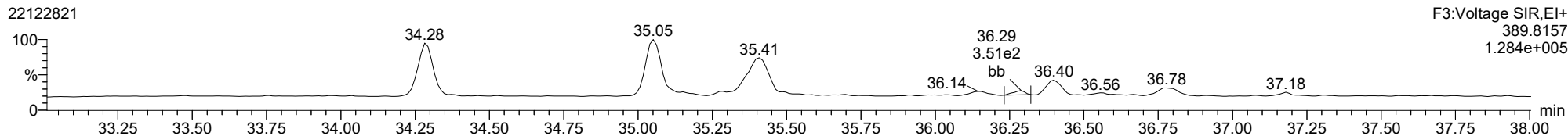


**FUNCTION2 HPCDPE**

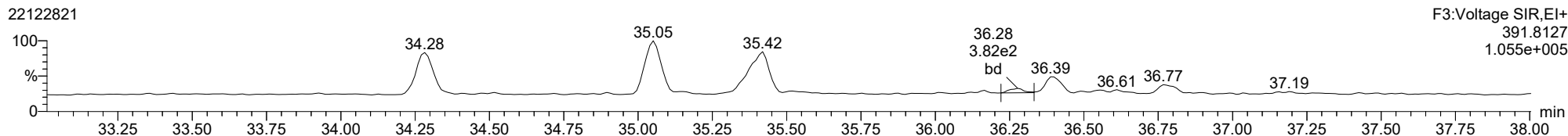


ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

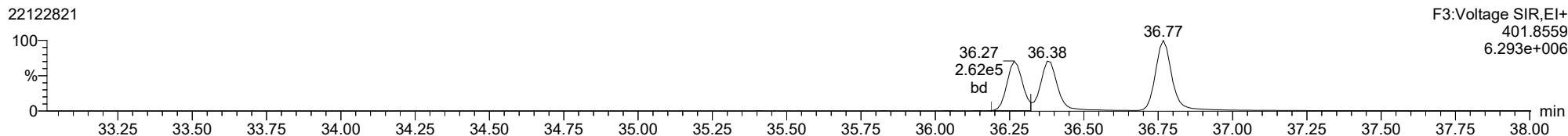
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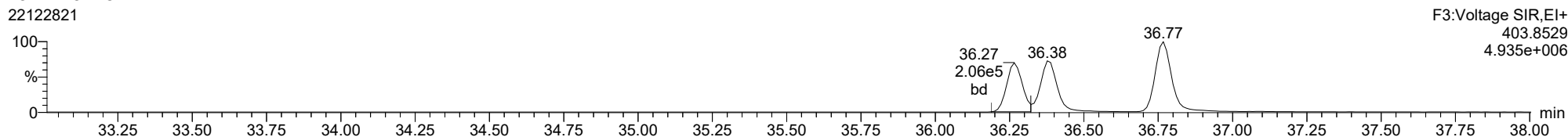
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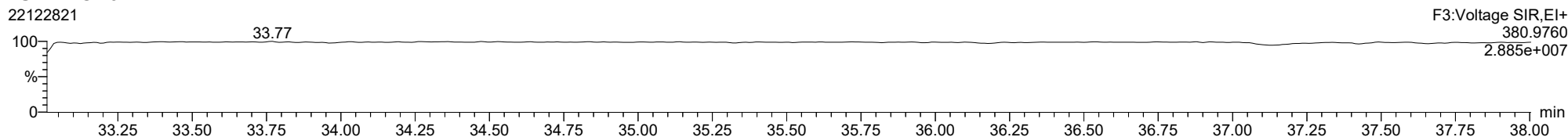
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13C-123478-HxCDD



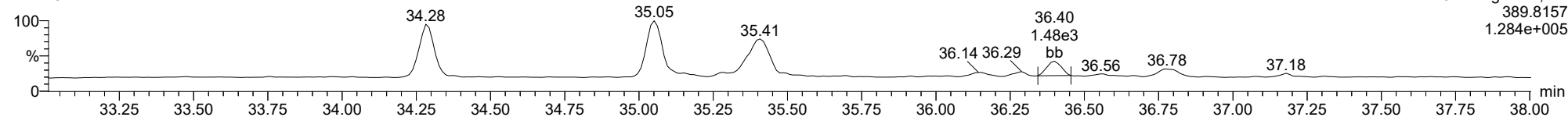
FUNCTION3 PFK



ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

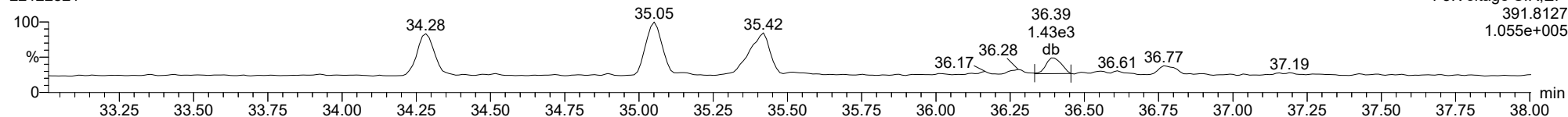
**123678-HxCDD**

22122821



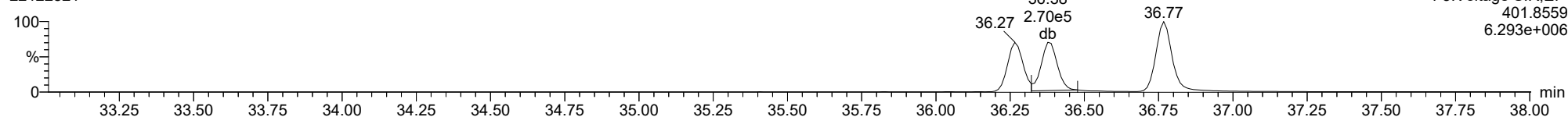
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22122821



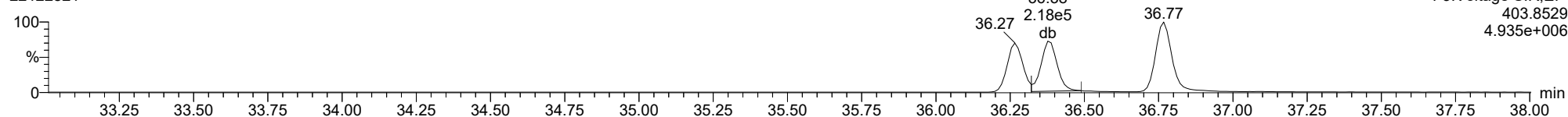
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22122821



**13C-123678-HxCDD**

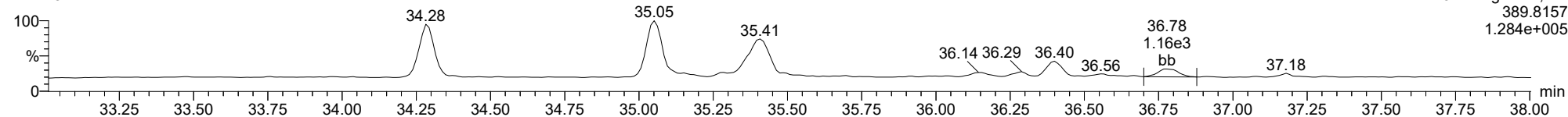
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ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

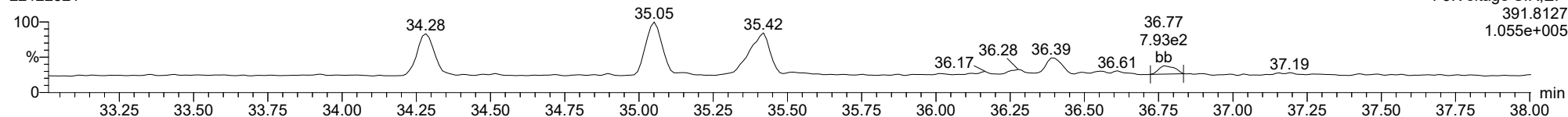
123789-HxCDD

22122821



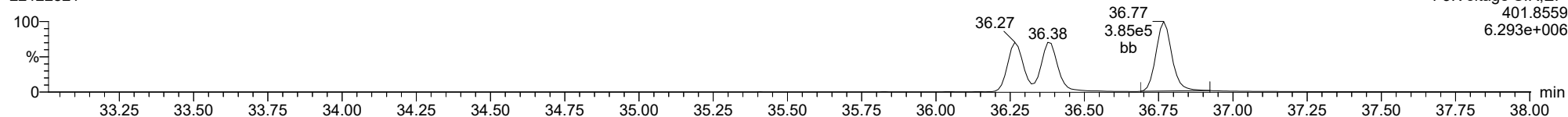
123789-HxCDD

22122821



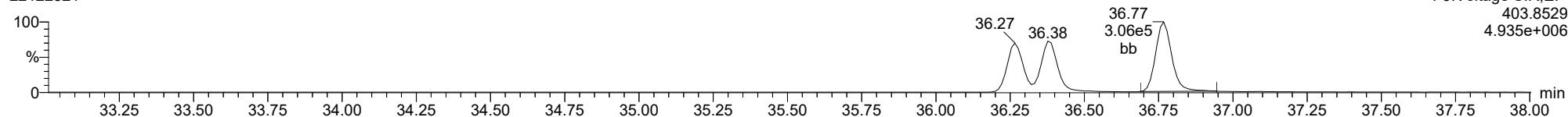
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22122821



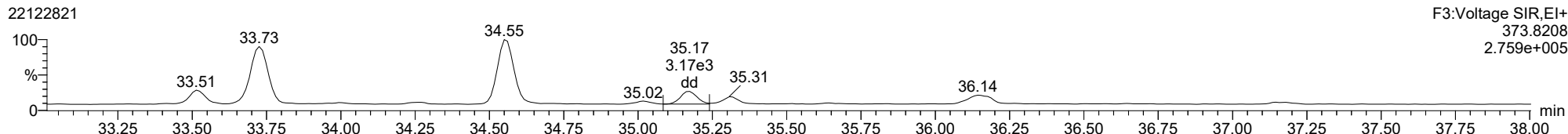
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22122821

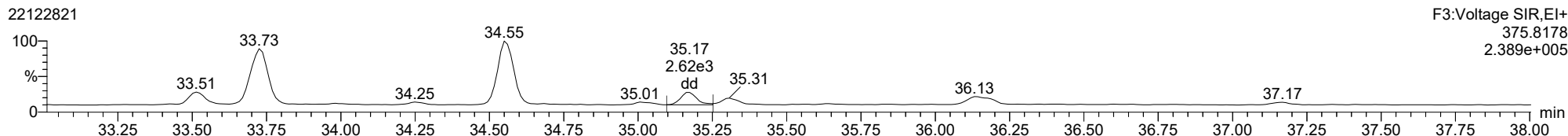


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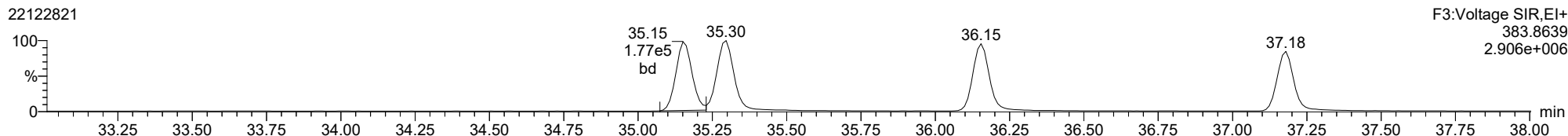
123478-HxCDF



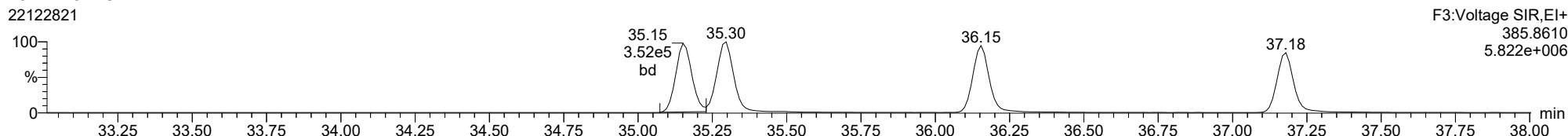
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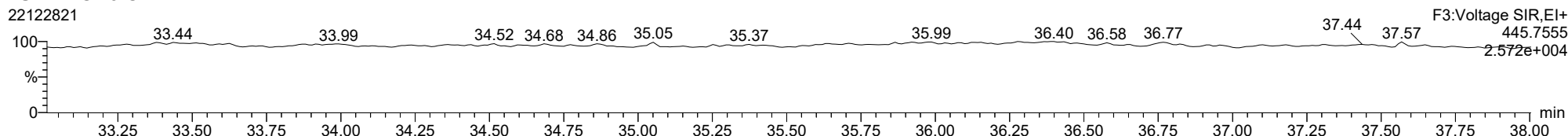
13C-123478-HxCDF



13C-123478-HxCDF



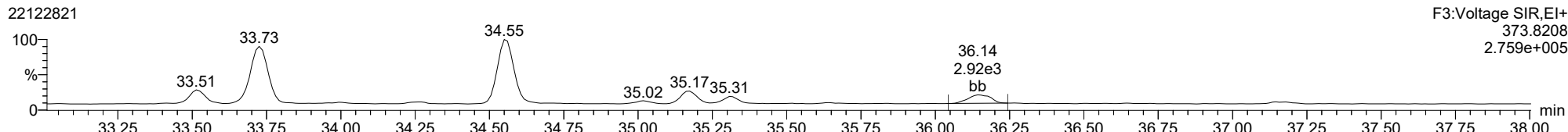
FUNCTION3 OCDPE



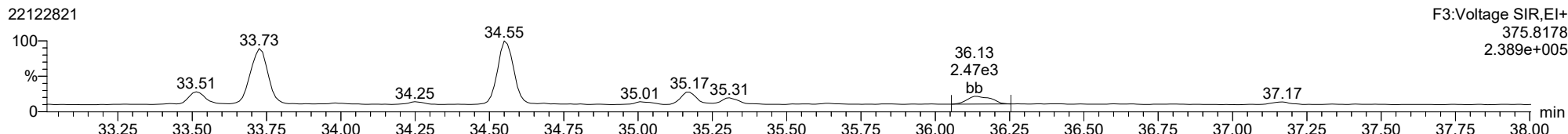


ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

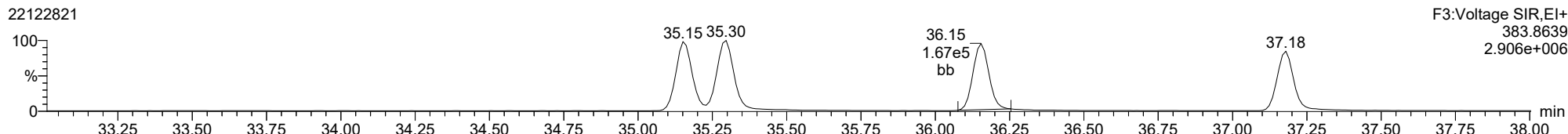
**234678-HxCDF**



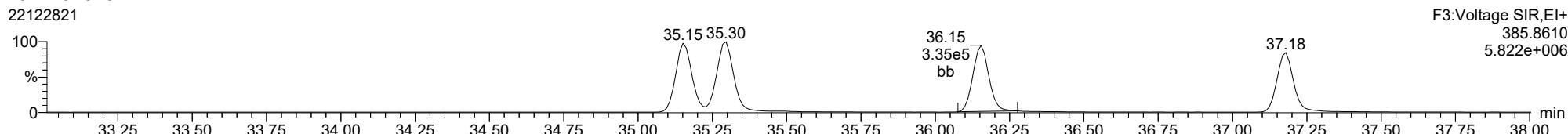
**234678-HxCDF**



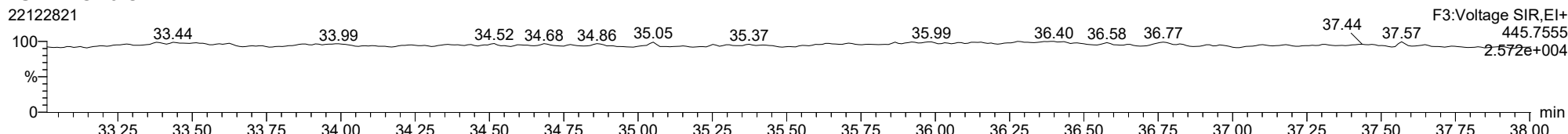
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**13C-234678-HxCDF**

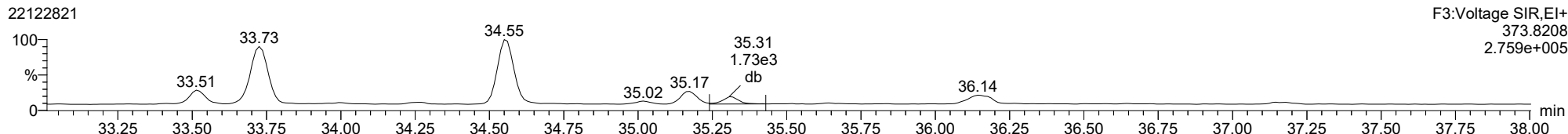


**FUNCTION3 OCDPE**

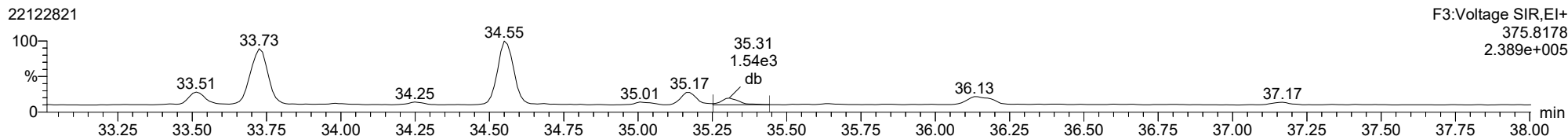


ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

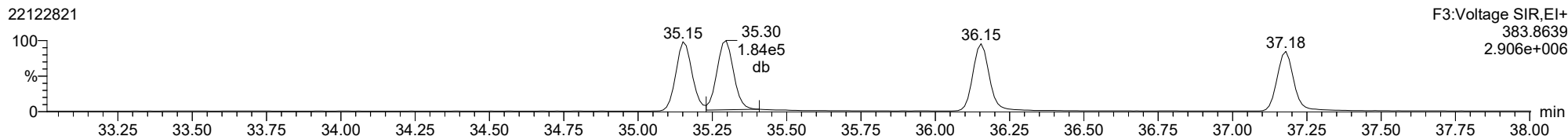
**123678-HxCDF**



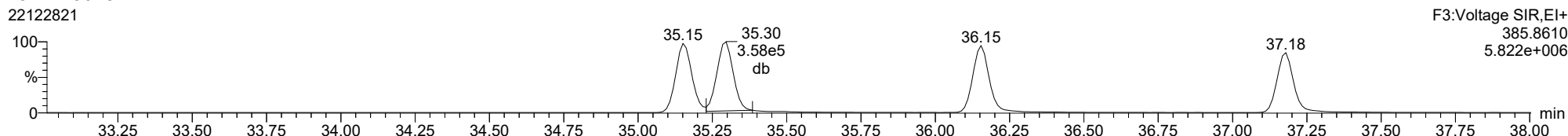
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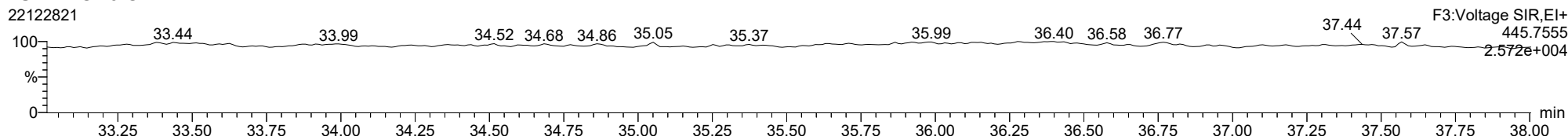
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**13C-123678-HxCDF**



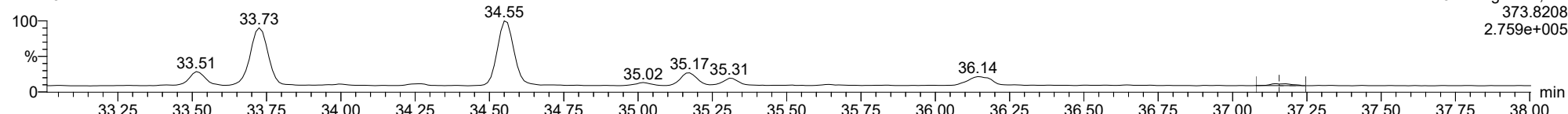
**FUNCTION3 OCDPE**



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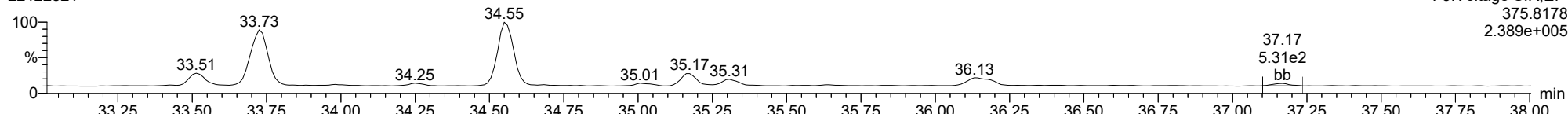
**123789-HxCDF**

22122821



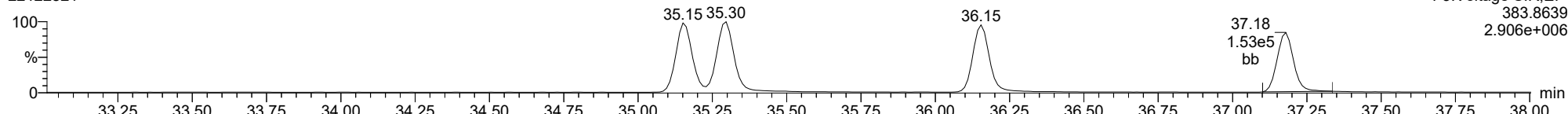
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22122821



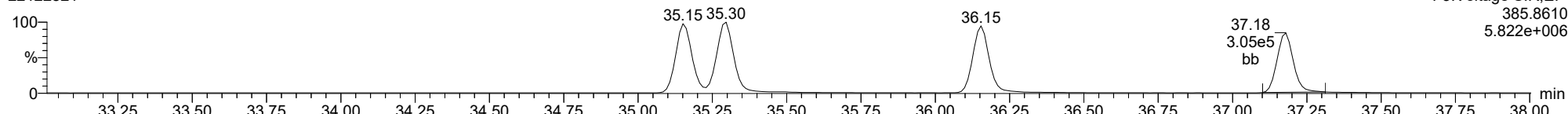
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22122821



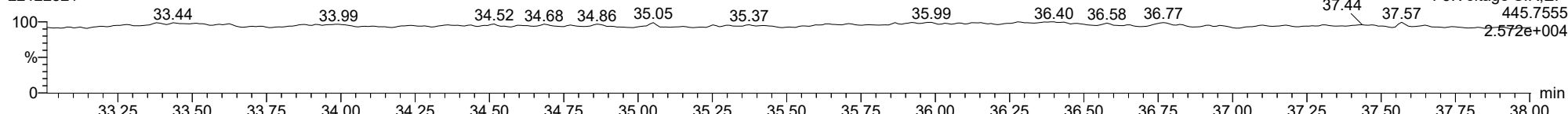
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22122821



**FUNCTION3 OCDPE**

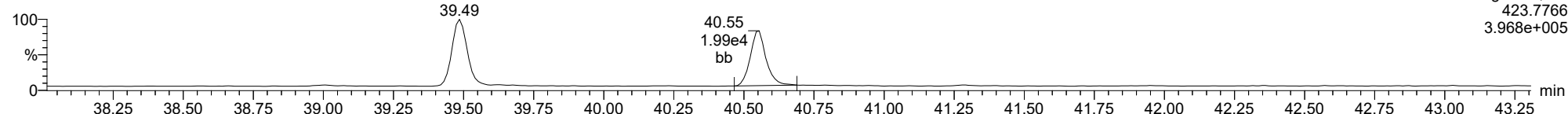
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ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

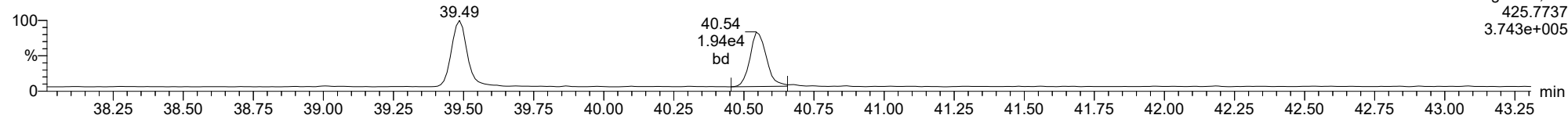
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22122821



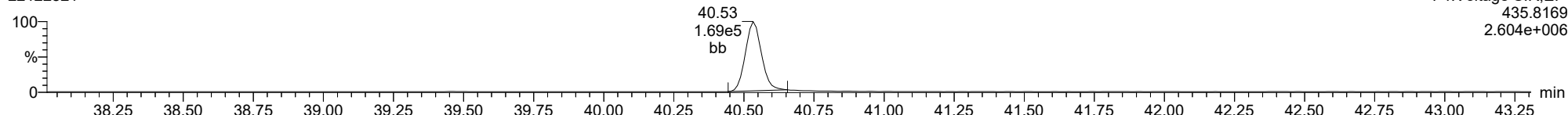
**1234678-HpCDD**

22122821



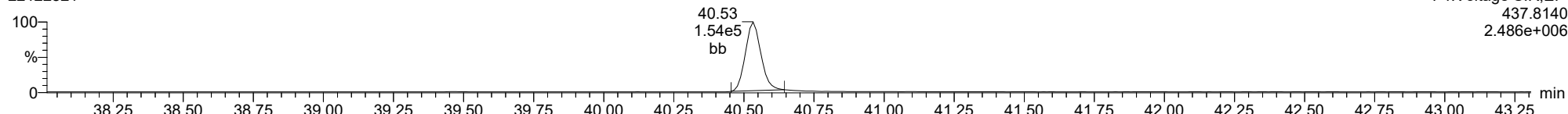
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22122821



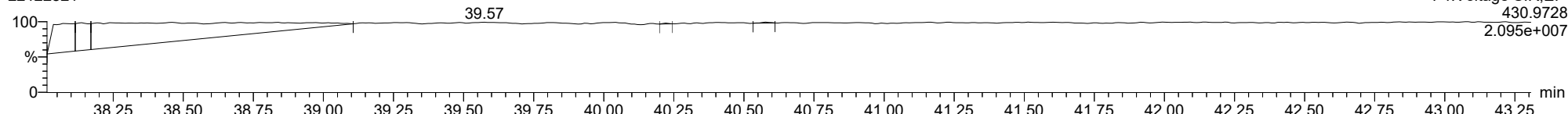
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22122821



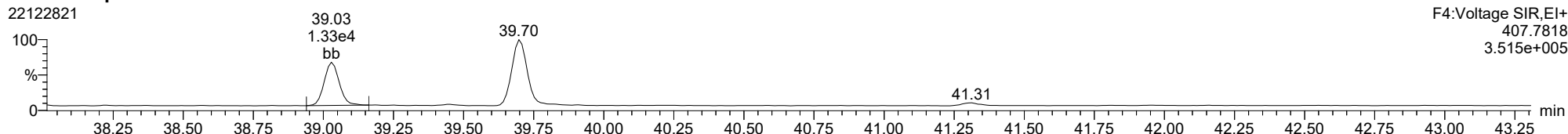
**FUNCTION4 PFK**

22122821

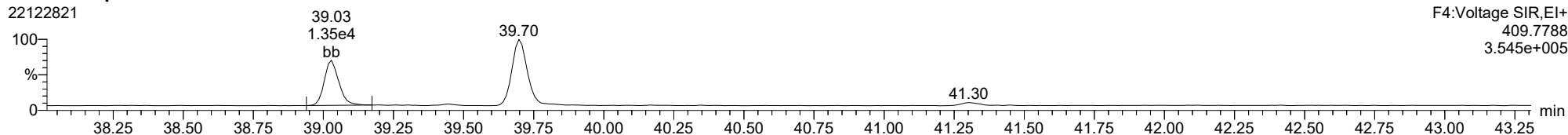


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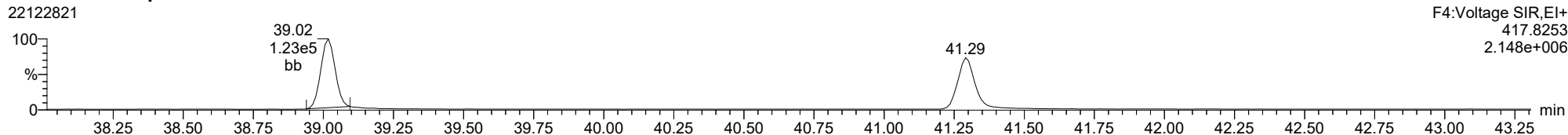
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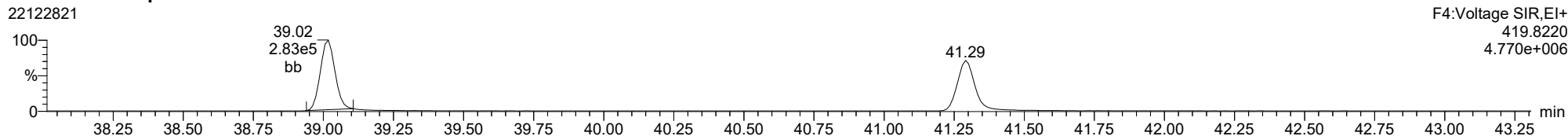
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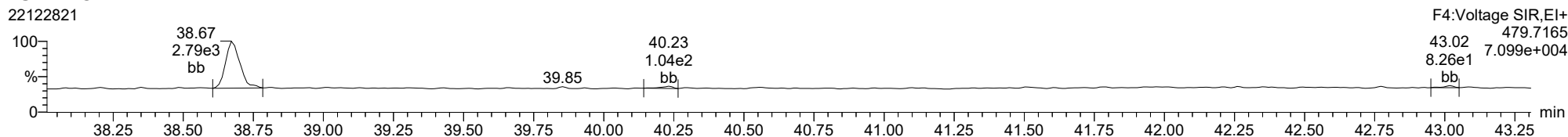
13C-1234678-HpCDF



13C-1234678-HpCDF



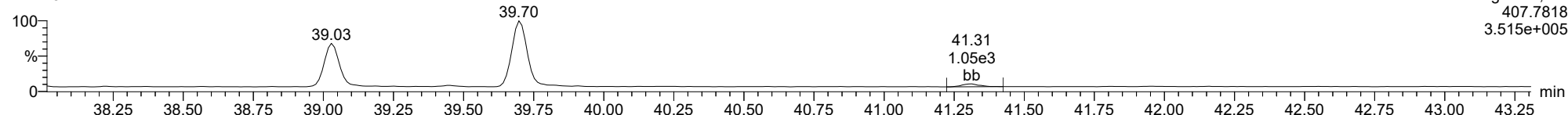
FUNCTION4 NCDPE



ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

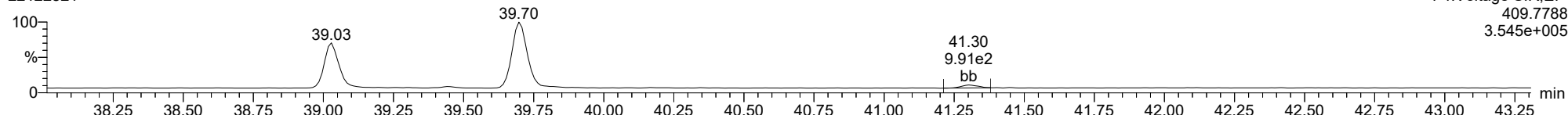
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22122821



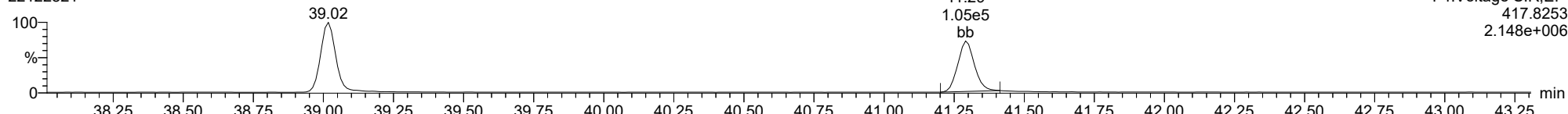
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22122821



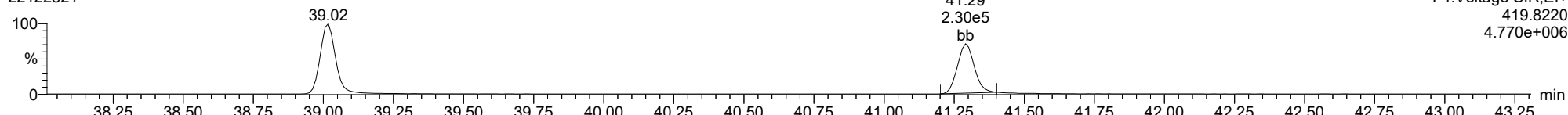
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22122821



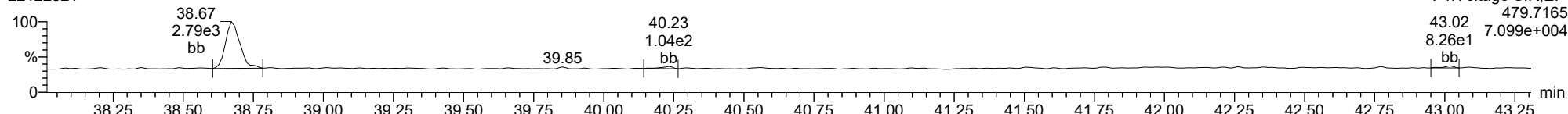
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22122821



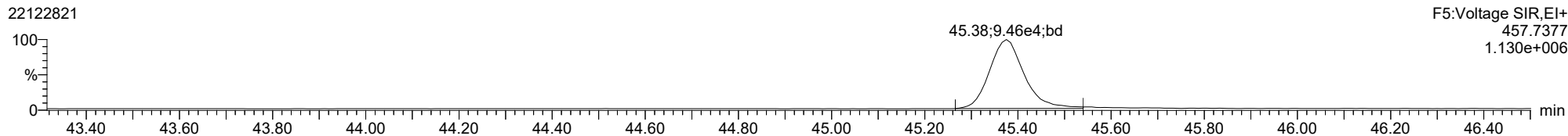
**FUNCTION4 NCDPE**

22122821

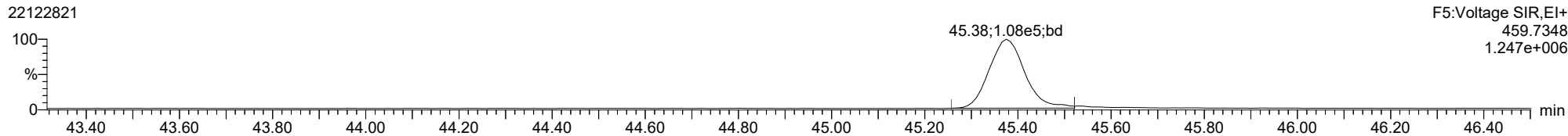


ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

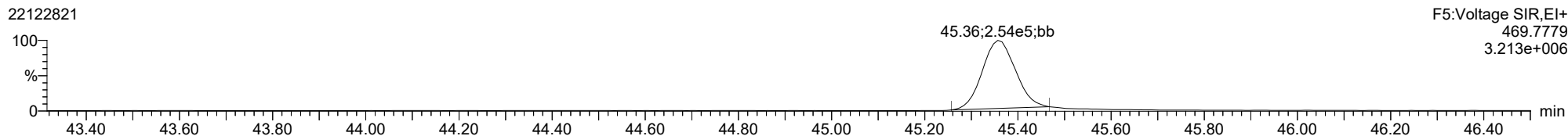
**OCDD**



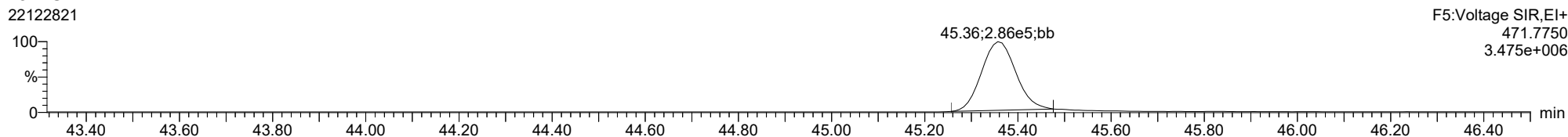
**OCDD**



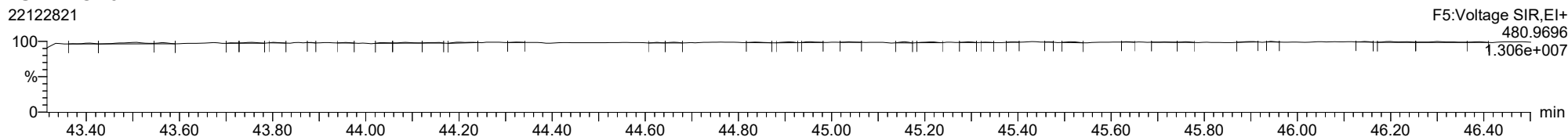
**13C-OCDD**



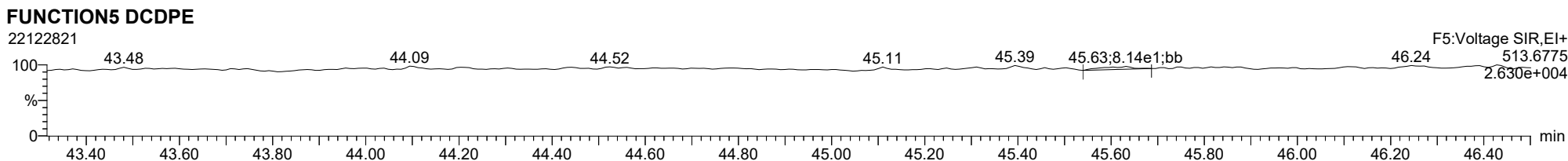
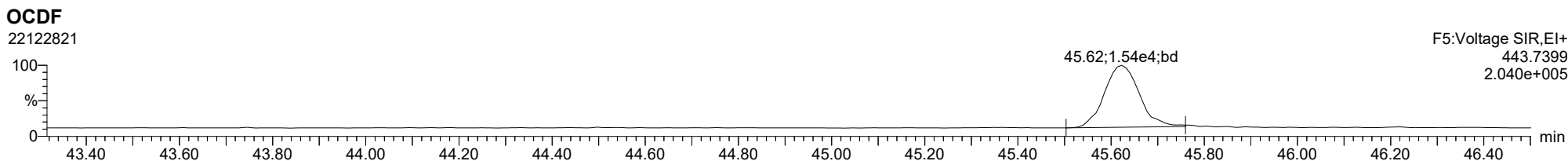
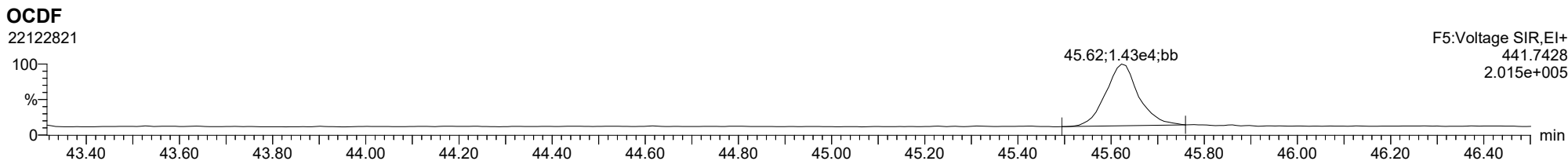
**13C-OCDD**



**FUNCTION5 PFK**



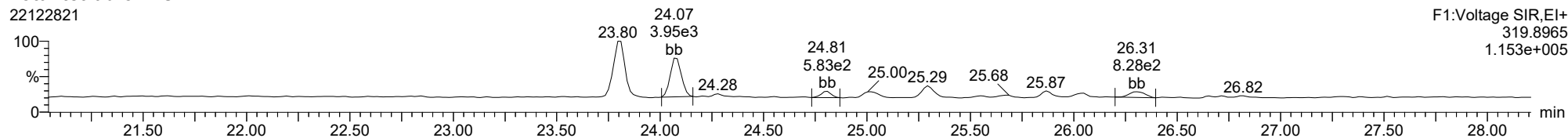
ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk



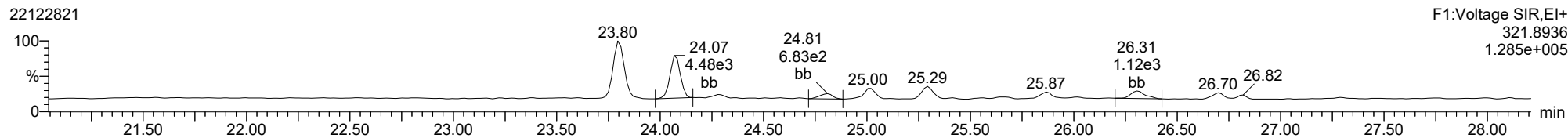


ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

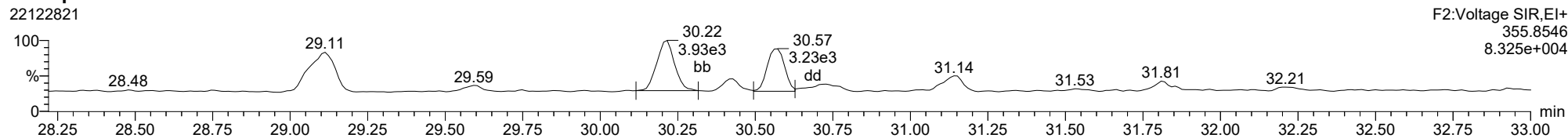
**Total-tetradoxins**



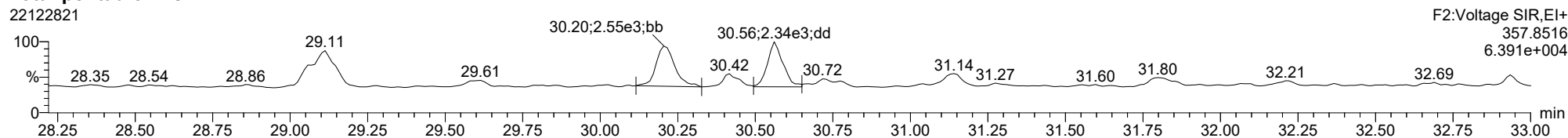
**Total-tetradoxins**



**Total-pentadoxins**

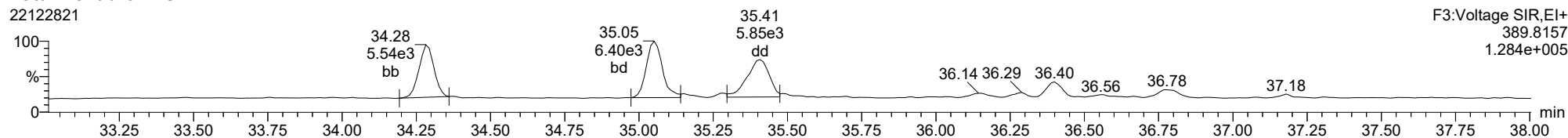


**Total-pentadoxins**

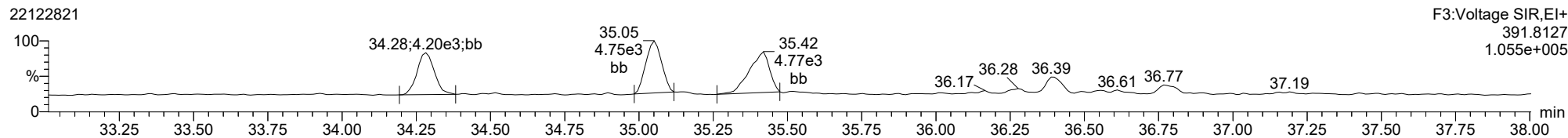


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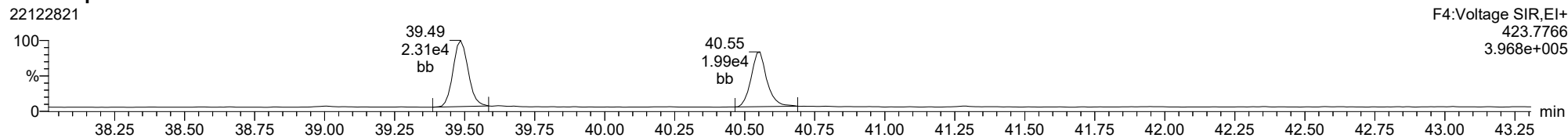
**Total-hexadioxins**



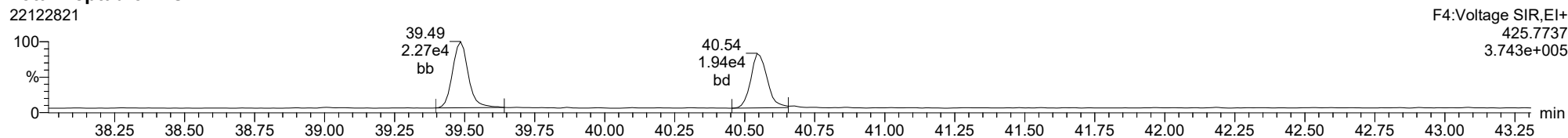
**Total-hexadioxins**



**Total-heptadioxins**



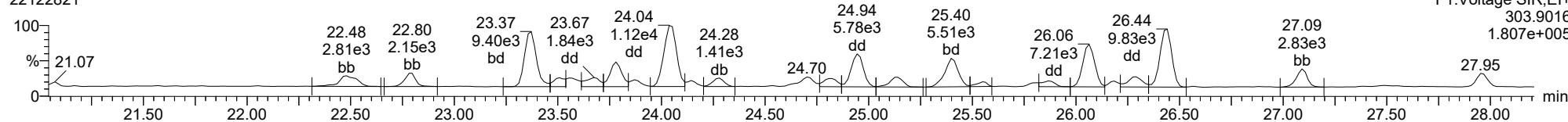
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ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

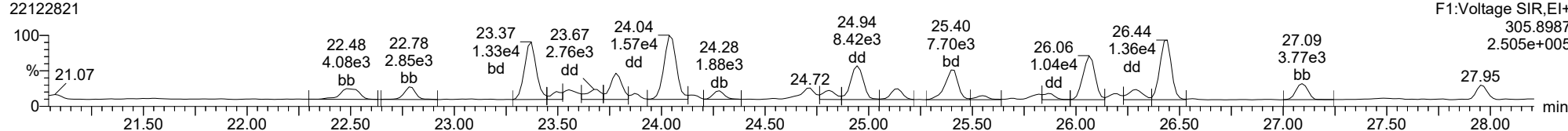
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22122821



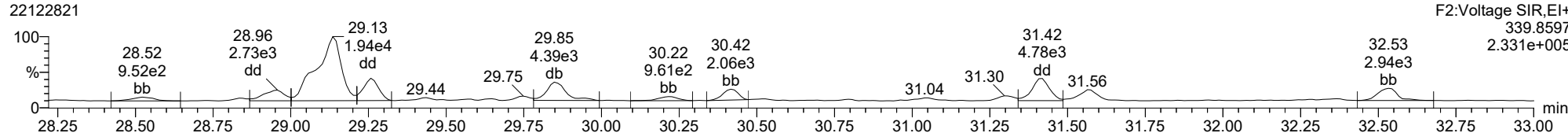
**Total-tetrafurans**

22122821



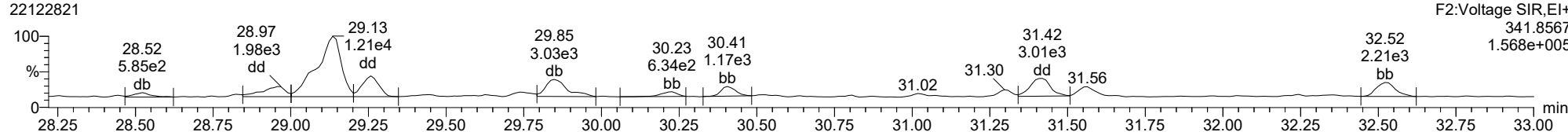
**Total-pentafurans**

22122821



**Total-pentafurans**

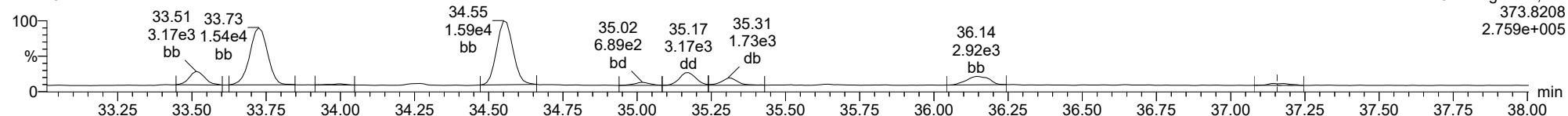
22122821



ID: 22L0246-09, Name: 22122821, Date: 29-Dec-2022, Time: 03:21:42, Conditions: AUTOSPEC01, User: pk

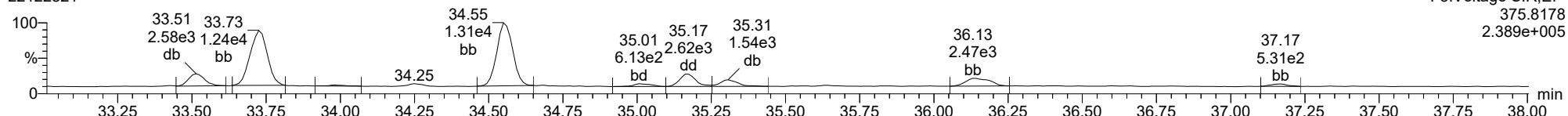
**Total-hexafurans**

22122821



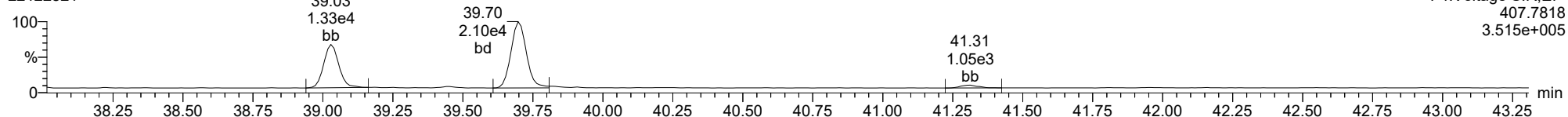
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22122821



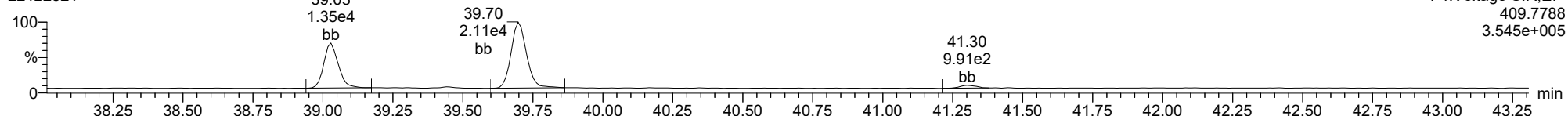
**Total-heptafurans**

22122821



**Total-heptafurans**

22122821





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-10 A File ID: 22122822  
 Sampled: 12/09/22 08:40 Prepared: 12/19/22 15:18 Analyzed: 12/29/22 04:11  
 % Solids: 64.11 Preparation: EPA 1613 Initial/Final: 15.6 g Wet / 20 uL  
 Result Basis: Dry Sequence: SKL0339 Calibration: FC00062  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.767	0.655-0.886	0.108	1.00	4.10	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.571	0.655-0.886	0.098	1.00	0.353	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.412	1.318-1.783	0.134	1.00	1.06	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.736	1.318-1.783	0.123	1.00	1.82	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.521	1.318-1.783	0.202	1.00	1.22	ng/kg	
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.284	1.054-1.426	0.134	1.00	4.93	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.171	1.054-1.426	0.135	1.00	2.40	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.248	1.054-1.426	0.127	1.00	3.83	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.301	1.054-1.426	0.158	1.00	1.22	ng/kg	
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.839	1.054-1.426	0.183	1.00	0.820	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.091	1.054-1.426	0.184	1.00	3.33	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.254	1.054-1.426	0.198	1.00	2.03	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.983	0.893-1.208	0.166	1.00	52.0	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.960	0.893-1.208	0.235	1.00	2.78	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.073	0.893-1.208	0.328	2.50	60.5	ng/kg	B
39001-02-0	OCDF	1	0.879	0.757-1.024	0.267	2.50	58.8	ng/kg	B
3268-87-9	OCDD	1	0.899	0.757-1.024	0.451	10.0	440	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	46.6	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	4.38	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	71.3	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	8.43	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	64.4	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	31.6	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	120	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	121	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 5.72  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 5.72



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-10</u>
Sampled:	<u>12/09/22 08:40</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>64.11</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SKL0339</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>22122822</u>
		Analyzed:	<u>12/29/22 04:11</u>
		Initial/Final:	<u>15.6 g / 20 uL</u>
		Calibration:	<u>FC00062</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.780	0.655-0.886	0.106	67.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.762	0.655-0.886	0.160	83.8	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.521	1.318-1.783	0.211	71.7	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.550	1.318-1.783	0.223	72.2	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.677	1.318-1.783	0.149	77.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.505	0.434-0.587	0.165	80.2	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.502	0.434-0.587	0.155	79.5	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.495	0.434-0.587	0.177	82.4	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.508	0.434-0.587	0.205	88.1	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.260	1.054-1.426	0.181	79.3	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.229	1.054-1.426	0.165	73.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.448	0.374-0.506	0.190	71.0	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.447	0.374-0.506	0.245	76.4	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.072	0.893-1.208	0.233	90.5	23 - 140 %	
13C12-OCDD		0.929	0.757-1.024	0.269	87.2	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.047	88.6	35 - 197 %	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:55:34 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

**ID:** 22L0246-10, **Name:** 22122822, **Date:** 29-Dec-2022, **Time:** 04:11:07, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.048	1.001	6.666e3	8.689e3	0.985	0.767	0.770	1440	645	1.01e5	1.44e5	69.9	222.5	NO	bd	bd	2.052
12378-PeCDF	30.227	1.001	1.872e3	1.325e3	0.906	1.412	1.550	1057	1001	2.64e4	1.85e4	24.9	18.5	NO	bb	db	0.531
23478-PeCDF	31.564	1.001	3.696e3	2.129e3	1.008	1.736	1.550	1057	1001	5.98e4	3.40e4	56.6	34.0	NO	dd	db	0.911
123478-HxCDF	35.174	1.001	7.634e3	5.946e3	1.045	1.284	1.240	1152	828	1.20e5	9.00e4	104.2	108.7	NO	bd	dd	2.466
234678-HxCDF	36.165	1.000	5.916e3	4.740e3	1.101	1.248	1.240	1152	828	6.18e4	5.02e4	53.7	60.6	NO	bb	bb	1.915
123678-HxCDF	35.307	1.000	3.680e3	3.143e3	1.019	1.171	1.240	1152	828	5.52e4	4.31e4	47.9	52.0	NO	db	db	1.202
123789-HxCDF	37.157	0.999	1.590e3	1.221e3	0.992	1.301	1.240	1152	828	1.98e4	1.76e4	17.2	21.2	NO	bb	bb	0.610
1234678-HpCDF	39.028	1.000	6.310e4	6.416e4	1.243	0.983	1.050	1125	1164	1.02e6	1.05e6	902.7	901.7	NO	bd	bd	25.984
1234789-HpCDF	41.312	1.001	2.663e3	2.775e3	1.192	0.960	1.050	1125	1164	4.04e4	4.21e4	35.9	36.2	NO	bb	bb	1.392
OCDF	45.622	1.006	4.766e4	5.420e4	1.303	0.879	0.890	749	1213	5.40e5	6.29e5	720.9	518.9	NO	bb	bd	29.404
2378-TCDD	26.683	1.001	4.377e2	7.661e2	1.168	0.571	0.770	947	798	4.56e3	1.14e4	4.8	14.3	YES	bd	bd	0.177
12378-PeCDD	31.809	1.000	1.643e3	1.080e3	1.152	1.521	1.550	854	1511	2.16e4	1.55e4	25.2	10.3	NO	bb	bd	0.612
123478-HxCDD	36.288	1.001	8.097e2	9.648e2	0.934	0.839	1.240	1030	1192	1.47e4	1.67e4	14.3	14.0	YES	bd	bd	0.410
123678-HxCDD	36.399	1.000	3.871e3	3.549e3	0.950	1.091	1.240	1030	1192	6.61e4	5.82e4	64.2	48.9	NO	db	db	1.663
123789-HxCDD	36.778	1.011	2.301e3	1.835e3	0.873	1.254	1.240	1030	1192	3.58e4	2.94e4	34.7	24.7	NO	bb	bb	1.015
1234678-HpCDD	40.543	1.000	6.268e4	5.842e4	1.268	1.073	1.050	1822	1558	9.01e5	8.85e5	494.5	568.4	NO	bd	bb	30.247
OCDD	45.384	1.000	3.021e5	3.359e5	1.089	0.899	0.890	960	1811	3.55e6	4.06e6	3696.8	2240.8	NO	bd	bb	220.266
13C-2378-TCDF	26.033	1.007	3.330e5	4.268e5	1.751	0.780	0.770	1592	1439	5.15e6	6.52e6	3233.3	4532.0	NO	bb	bb	67.397
13C-12378-PeCDF	30.193	1.168	4.013e5	2.638e5	1.442	1.521	1.550	3301	1680	6.14e6	4.07e6	1859.4	2420.9	NO	bb	bb	71.669
13C-23478-PeCDF	31.541	1.220	3.856e5	2.488e5	1.366	1.550	1.550	3301	1680	6.03e6	3.92e6	1827.1	2333.0	NO	bb	bb	72.162
13C-123478-HxCDF	35.151	0.956	1.767e5	3.500e5	1.095	0.505	0.510	1099	1846	2.85e6	5.64e6	2590.9	3053.4	NO	bd	bd	80.198
13C-123678-HxCDF	35.296	0.960	1.860e5	3.708e5	1.168	0.502	0.510	1099	1846	2.88e6	5.65e6	2621.2	3059.7	NO	db	db	79.481
13C-234678-HxCDF	36.154	0.983	1.673e5	3.381e5	1.023	0.495	0.510	1099	1846	2.82e6	5.64e6	2567.4	3056.9	NO	bb	bb	82.359
13C-123789-HxCDF	37.179	1.011	1.564e5	3.081e5	0.879	0.508	0.510	1099	1846	2.55e6	4.99e6	2318.0	2705.3	NO	bb	bb	88.113
13C-1234678-HpCDF	39.017	1.061	1.218e5	2.721e5	0.925	0.448	0.440	1487	1373	2.06e6	4.63e6	1387.5	3373.2	NO	bb	bb	70.958
13C-1234789-HpCDF	41.290	1.123	1.012e5	2.264e5	0.715	0.447	0.440	1487	1373	1.51e6	3.30e6	1017.5	2403.7	NO	bb	bb	76.390
13C-1234-TCDD	25.851	0.000	2.799e5	3.638e5	1.000	0.769	0.770	1424	1401	4.27e6	5.53e6	2999.1	3948.3	NO	bb	bb	100.000
13C-2378-TCDD	26.668	1.032	2.522e5	3.310e5	1.081	0.762	0.770	1424	1401	3.93e6	5.15e6	2762.5	3676.8	NO	bb	bb	83.772
13C-12378-PeCDD	31.798	1.230	2.420e5	1.444e5	0.776	1.677	1.550	935	964	3.82e6	2.24e6	4085.4	2323.4	NO	bb	bb	77.312
13C-123478-HxCDD	36.265	0.986	2.585e5	2.051e5	0.975	1.260	1.240	1526	1348	4.34e6	3.46e6	2842.4	2569.4	NO	bd	bd	79.257
13C-123678-HxCDD	36.388	0.990	2.589e5	2.106e5	1.067	1.229	1.240	1526	1348	4.20e6	3.33e6	2754.0	2474.5	NO	db	db	73.388
13C-1234678-HpCDD	40.532	1.102	1.634e5	1.524e5	0.582	1.072	1.050	899	1306	2.52e6	2.30e6	2800.1	1760.3	NO	bb	bb	90.492
13C-OCDD	45.366	1.234	2.562e5	2.756e5	0.509	0.929	0.890	1098	1128	3.26e6	3.53e6	2967.5	3125.0	NO	bb	bb	174.313
13C-123789-HxCDD	36.767	0.000	3.344e5	2.655e5	1.000	1.260	1.240	1526	1348	5.45e6	4.35e6	3573.1	3226.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.683	1.032	2.555e5	1.120				867		3.93e6		4526.5			bb		35.430

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:55:34 Pacific Standard Time

ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.525	0.865	1.339e3	3.787e3	1.300	0.354	0.770	1440	645	2.44e4	4.28e4	16.9	66.3	YES	db	bb	0.519
1289-TCDF					0.931		0.770	1440	645								
13468-PECDF					1.308		1.550	1260	894								
12389-PECDF					0.860		1.550	1057	1001								
123468-HXCDF	33.514	0.953	7.581e3	6.300e3	1.156	1.204	1.240	1152	828	1.19e5	1.01e5	103.3	121.9	NO	bb	bb	2.279
1368-TCDD	23.795	0.892	3.576e3	3.972e3	1.151	0.900	0.770	947	798	5.48e4	6.66e4	57.9	83.5	YES	bb	bb	1.125
1289-TCDD	27.273	1.023	1.717e2	1.105e2	0.950	1.554	0.770	947	798	2.78e3	2.42e3	2.9	3.0	YES	bb	bb	0.051
12479-PECDD	29.113	0.916	7.093e3	4.546e3	2.164	1.561	1.550	854	1511	7.41e4	4.54e4	86.8	30.0	NO	MM	MM	1.392
12389-PECDD	32.210	1.013	4.025e2	4.140e2	1.371	0.972	1.550	854	1511	7.84e3	6.95e3	9.2	4.6	YES	bb	bb	0.154
124679-HXCDD	34.282	0.945	1.378e4	1.179e4	1.153	1.169	1.240	1030	1192	2.22e5	1.83e5	215.5	153.9	NO	bb	bb	4.785
1234679-HPCDD	39.485	0.974	7.108e4	6.952e4	1.473	1.022	1.050	1822	1558	1.14e6	1.09e6	624.5	698.1	NO	bb	bd	30.224
Total-tetrafurans			7.894e4		1.072			1440		1.17e6							23.291
Total-penta1			6.881e4					1260		1.04e6							18.856
Total-pentafurans			6.215e4		0.924			1057		7.80e5							16.823
Total-hexafurans			9.773e4		1.063			1152		1.51e6							32.211
Total-heptafurans			1.369e5		1.218			1125		2.18e6							59.798
Total-Furans			4.939e5		1.090			1440		7.24e6							180.852
Total-tetradoxins			6.328e3		1.090			947		9.33e4							2.190
Total-pentadoxins			1.688e4		1.562			854		2.25e5							4.217
Total-hexadoxins			4.110e4		0.978			1030		5.79e5							15.786
Total-heptadoxins			1.338e5		1.371			1822		2.04e6							60.470
Total-Dioxins			5.002e5		1.207			947		6.48e6							302.930
Total-TEQ			9.941e5					947		1.37e7							483.782
FUNCTION1 PFK			1.283e7					278896		3.32e7							
FUNCTION2 PFK			4.383e5					140486		8.41e6							0.000
FUNCTION3 PFK			3.630e6					398852		4.80e7							0.000
FUNCTION4 PFK			3.243e4					143509		1.12e6							
FUNCTION5 PFK			3.231e4					110489		1.31e6							
FUNCTION1 HXCD...			1.846e4					496		3.01e5							0.000
FUNCTION1 HPCD...			2.494e2					673		3.14e3							0.000
FUNCTION2 HPCD...			2.628e3					738		4.37e4							0.000
FUNCTION3 OCDPE			8.736e1					510		1.33e3							0.000
FUNCTION4 NCDPE			2.920e3					678		4.99e4							0.000
FUNCTION5 DCDPE			0.000e0					525		0.00e0							



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:34 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.28	2.250e3	2.921e3	1.072	0.77	0.77	25.1	YES	NO	dd	db	0.635
2	Total-tetrafurans	24.04	1.202e4	1.701e4	1.072	0.71	0.77	121.7	YES	NO	dd	dd	3.564
3	Total-tetrafurans	23.87	9.657e2	1.431e3	1.072	0.67	0.77	12.3	YES	NO	dd	dd	0.294
4	Total-tetrafurans	23.78	4.711e3	6.858e3	1.072	0.69	0.77	48.8	YES	NO	dd	dd	1.420
5	Total-tetrafurans	23.67	2.076e3	3.139e3	1.072	0.66	0.77	20.2	YES	NO	dd	dd	0.640
6	Total-tetrafurans	23.49	1.326e3	1.814e3	1.072	0.73	0.77	15.2	YES	NO	dd	dd	0.385
7	Total-tetrafurans	23.36	1.445e4	1.965e4	1.072	0.74	0.77	145.9	YES	NO	bd	bd	4.186
8	Total-tetrafurans	22.78	2.730e3	4.084e3	1.072	0.67	0.77	30.9	YES	NO	bb	bb	0.836
9	Total-tetrafurans	27.08	2.300e3	3.206e3	1.072	0.72	0.77	25.2	YES	NO	bb	bb	0.676
10	Total-tetrafurans	26.43	6.278e3	8.531e3	1.072	0.74	0.77	71.2	YES	NO	db	db	1.818
11	Total-tetrafurans	26.27	2.845e3	3.947e3	1.072	0.72	0.77	30.1	YES	NO	dd	dd	0.834
12	2378-TCDF	26.05	6.666e3	8.689e3	0.985	0.77	0.77	69.9	YES	NO	bd	bd	2.052
13	Total-tetrafurans	25.38	4.212e3	5.601e3	1.072	0.75	0.77	37.4	YES	NO	db	bd	1.205
14	Total-tetrafurans	25.13	2.812e3	3.621e3	1.072	0.78	0.77	31.8	YES	NO	dd	bb	0.790
15	Total-tetrafurans	24.94	8.535e3	1.217e4	1.072	0.70	0.77	86.5	YES	NO	dd	db	2.542
16	Total-tetrafurans	24.79	1.658e3	2.326e3	1.072	0.71	0.77	14.2	YES	NO	dd	dd	0.489
17	Total-tetrafurans	24.70	3.108e3	4.428e3	1.072	0.70	0.77	26.4	YES	NO	dd	dd	0.925

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.47	6.881e4	4.620e4		1.49	1.55	822.8	YES	NO	bb	bb	18.856

ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.93	4.297e3	2.722e3	0.924	1.58	1.55	48.3	YES	NO	dd	dd	1.168
2	23478-PeCDF	31.56	3.696e3	2.129e3	1.008	1.74	1.55	56.6	YES	NO	dd	db	0.911
3	Total-pentafurans	31.41	6.705e3	4.758e3	0.924	1.41	1.55	92.1	YES	NO	dd	dd	1.908
4	Total-pentafurans	31.30	1.755e3	1.129e3	0.924	1.55	1.55	27.0	YES	NO	bd	bd	0.480
5	Total-pentafurans	30.52	8.971e2	5.518e2	0.924	1.63	1.55	14.5	YES	NO	db	db	0.241
6	Total-pentafurans	30.42	3.675e3	2.439e3	0.924	1.51	1.55	56.4	YES	NO	bd	bd	1.018
7	12378-PeCDF	30.23	1.872e3	1.325e3	0.906	1.41	1.55	24.9	YES	NO	bb	db	0.531
8	Total-pentafurans	29.85	8.179e3	5.185e3	0.924	1.58	1.55	99.8	YES	NO	db	dd	2.225
9	Total-pentafurans	29.75	1.066e3	7.679e2	0.924	1.39	1.55	17.9	YES	NO	dd	dd	0.305
10	Total-pentafurans	29.42	7.244e2	4.222e2	0.924	1.72	1.55	8.5	YES	NO	dd	dd	0.191
11	Total-pentafurans	29.13	2.928e4	1.785e4	0.924	1.64	1.55	292.7	YES	NO	dd	MM	7.844

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.31	3.680e3	3.143e3	1.019	1.17	1.24	47.9	YES	NO	db	db	1.202
2	123478-HxCDF	35.17	7.634e3	5.946e3	1.045	1.28	1.24	104.2	YES	NO	bd	dd	2.466
3	Total-hexafurans	35.03	1.748e3	1.574e3	1.063	1.11	1.24	27.2	YES	NO	bb	bd	0.609
4	Total-hexafurans	34.55	3.773e4	3.020e4	1.063	1.25	1.24	538.8	YES	NO	bb	bb	12.449
5	Total-hexafurans	33.73	3.186e4	2.641e4	1.063	1.21	1.24	417.1	YES	NO	bb	bb	10.680
6	123468-HxCDF	33.51	7.581e3	6.300e3	1.156	1.20	1.24	103.3	YES	NO	bb	bb	2.279
7	123789-HxCDF	37.16	1.590e3	1.221e3	0.992	1.30	1.24	17.2	YES	NO	bb	bb	0.610
8	234678-HxCDF	36.17	5.916e3	4.740e3	1.101	1.25	1.24	53.7	YES	NO	bb	bb	1.915

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.31	2.663e3	2.775e3	1.192	0.96	1.05	35.9	YES	NO	bb	bb	1.392
2	Total-heptafurans	39.70	7.111e4	7.132e4	1.218	1.00	1.05	996.1	YES	NO	bb	bd	32.422
3	1234678-HpCDF	39.03	6.310e4	6.416e4	1.243	0.98	1.05	902.7	YES	NO	bd	bd	25.984

## Quantify Totals Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:34 Pacific Standard Time

ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.28	2.250e3	2.921e3	1.072	0.77	0.77	25.1	YES	NO	dd	db	0.635
2	Total-tetrafurans	24.04	1.202e4	1.701e4	1.072	0.71	0.77	121.7	YES	NO	dd	dd	3.564
3	Total-tetrafurans	23.87	9.657e2	1.431e3	1.072	0.67	0.77	12.3	YES	NO	dd	dd	0.294
4	Total-tetrafurans	23.78	4.711e3	6.858e3	1.072	0.69	0.77	48.8	YES	NO	dd	dd	1.420
5	Total-tetrafurans	23.67	2.076e3	3.139e3	1.072	0.66	0.77	20.2	YES	NO	dd	dd	0.640
6	Total-tetrafurans	23.49	1.326e3	1.814e3	1.072	0.73	0.77	15.2	YES	NO	dd	dd	0.385
7	Total-tetrafurans	23.36	1.445e4	1.965e4	1.072	0.74	0.77	145.9	YES	NO	bd	bd	4.186
8	Total-tetrafurans	22.78	2.730e3	4.084e3	1.072	0.67	0.77	30.9	YES	NO	bb	bb	0.836
9	Total-Furans	27.95	1.744e3	2.149e3	1.090	0.81	0.77	18.2	YES	NO	bb	bb	0.470
10	Total-tetrafurans	27.08	2.300e3	3.206e3	1.072	0.72	0.77	25.2	YES	NO	bb	bb	0.676
11	Total-tetrafurans	26.43	6.278e3	8.531e3	1.072	0.74	0.77	71.2	YES	NO	db	db	1.818
12	Total-tetrafurans	26.27	2.845e3	3.947e3	1.072	0.72	0.77	30.1	YES	NO	dd	dd	0.834
13	2378-TCDF	26.05	6.666e3	8.689e3	0.985	0.77	0.77	69.9	YES	NO	bd	bd	2.052
14	Total-tetrafurans	25.38	4.212e3	5.601e3	1.072	0.75	0.77	37.4	YES	NO	db	bd	1.205
15	Total-tetrafurans	25.13	2.812e3	3.621e3	1.072	0.78	0.77	31.8	YES	NO	dd	bb	0.790
16	Total-tetrafurans	24.94	8.535e3	1.217e4	1.072	0.70	0.77	86.5	YES	NO	dd	db	2.542
17	Total-tetrafurans	24.79	1.658e3	2.326e3	1.072	0.71	0.77	14.2	YES	NO	dd	dd	0.489
18	Total-tetrafurans	24.70	3.108e3	4.428e3	1.072	0.70	0.77	26.4	YES	NO	dd	dd	0.925
19	Total-pentafurans	28.93	4.297e3	2.722e3	0.924	1.58	1.55	48.3	YES	NO	dd	dd	1.168
20	23478-PeCDF	31.56	3.696e3	2.129e3	1.008	1.74	1.55	56.6	YES	NO	dd	db	0.911
21	Total-pentafurans	31.41	6.705e3	4.758e3	0.924	1.41	1.55	92.1	YES	NO	dd	dd	1.908
22	Total-pentafurans	31.30	1.755e3	1.129e3	0.924	1.55	1.55	27.0	YES	NO	bd	bd	0.480
23	Total-pentafurans	30.52	8.971e2	5.518e2	0.924	1.63	1.55	14.5	YES	NO	db	db	0.241
24	Total-pentafurans	30.42	3.675e3	2.439e3	0.924	1.51	1.55	56.4	YES	NO	bd	bd	1.018
25	12378-PeCDF	30.23	1.872e3	1.325e3	0.906	1.41	1.55	24.9	YES	NO	bb	db	0.531
26	Total-pentafurans	29.85	8.179e3	5.185e3	0.924	1.58	1.55	99.8	YES	NO	db	dd	2.225
27	Total-pentafurans	29.75	1.066e3	7.679e2	0.924	1.39	1.55	17.9	YES	NO	dd	dd	0.305
28	Total-pentafurans	29.42	7.244e2	4.222e2	0.924	1.72	1.55	8.5	YES	NO	dd	dd	0.191
29	Total-pentafurans	29.13	2.928e4	1.785e4	0.924	1.64	1.55	292.7	YES	NO	dd	MM	7.844
30	123678-HxCDF	35.31	3.680e3	3.143e3	1.019	1.17	1.24	47.9	YES	NO	db	db	1.202
31	123478-HxCDF	35.17	7.634e3	5.946e3	1.045	1.28	1.24	104.2	YES	NO	bd	dd	2.466
32	Total-hexafurans	35.03	1.748e3	1.574e3	1.063	1.11	1.24	27.2	YES	NO	bb	bd	0.609
33	Total-hexafurans	34.55	3.773e4	3.020e4	1.063	1.25	1.24	538.8	YES	NO	bb	bb	12.449
34	Total-hexafurans	33.73	3.186e4	2.641e4	1.063	1.21	1.24	417.1	YES	NO	bb	bb	10.680
35	123468-HxCDF	33.51	7.581e3	6.300e3	1.156	1.20	1.24	103.3	YES	NO	bb	bb	2.279
36	123789-HxCDF	37.16	1.590e3	1.221e3	0.992	1.30	1.24	17.2	YES	NO	bb	bb	0.610
37	234678-HxCDF	36.17	5.916e3	4.740e3	1.101	1.25	1.24	53.7	YES	NO	bb	bb	1.915

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234789-HpCDF	41.31	2.663e3	2.775e3	1.192	0.96	1.05	35.9	YES	NO	bb	bb	1.392
39	Total-heptafurans	39.70	7.111e4	7.132e4	1.218	1.00	1.05	996.1	YES	NO	bb	bd	32.422
40	1234678-HpCDF	39.03	6.310e4	6.416e4	1.243	0.98	1.05	902.7	YES	NO	bd	bd	25.984
41	OCDF	45.62	4.766e4	5.420e4	1.303	0.88	0.89	720.9	YES	NO	bb	bd	29.404
42	Total-penta1	27.47	6.881e4	4.620e4		1.49	1.55	822.8	YES	NO	bb	bb	18.856

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.32	1.043e3	1.505e3	1.090	0.69	0.77	13.5	YES	NO	bd	bb	0.401
2	Total-tetradoxins	25.85	6.708e2	7.948e2	1.090	0.84	0.77	10.1	YES	NO	bd	bd	0.231
3	Total-tetradoxins	25.29	1.450e3	1.638e3	1.090	0.89	0.77	21.3	YES	NO	db	bb	0.486
4	Total-tetradoxins	24.28	3.957e2	4.758e2	1.090	0.83	0.77	5.8	YES	NO	bb	bb	0.137
5	Total-tetradoxins	24.07	2.768e3	3.171e3	1.090	0.87	0.77	48.0	YES	NO	bb	bb	0.935

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.81	1.643e3	1.080e3	1.152	1.52	1.55	25.2	YES	NO	bb	bd	0.612
2	Total-pentadoxins	31.14	1.331e3	7.890e2	1.562	1.69	1.55	22.0	YES	NO	bb	bb	0.351
3	Total-pentadoxins	30.56	2.380e3	1.653e3	1.562	1.44	1.55	43.4	YES	NO	dd	dd	0.668
4	Total-pentadoxins	30.42	1.212e3	8.914e2	1.562	1.36	1.55	23.7	YES	NO	bd	bd	0.348
5	Total-pentadoxins	30.20	3.220e3	1.887e3	1.562	1.71	1.55	62.3	YES	NO	bb	bb	0.846
6	12479-PECDD	29.11	7.093e3	4.546e3	2.164	1.56	1.55	86.8	YES	NO	MM	MM	1.392

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadoxins	35.05	6.471e3	5.157e3	0.978	1.25	1.24	94.8	YES	NO	bd	bb	2.550
2	124679-HxCDD	34.28	1.378e4	1.179e4	1.153	1.17	1.24	215.5	YES	NO	bb	bb	4.785
3	123789-HxCDD	36.78	2.301e3	1.835e3	0.873	1.25	1.24	34.7	YES	NO	bb	bb	1.015
4	Total-hexadoxins	36.56	6.126e2	5.497e2	0.978	1.11	1.24	9.9	YES	NO	bb	bb	0.255
5	123678-HxCDD	36.40	3.871e3	3.549e3	0.950	1.09	1.24	64.2	YES	NO	db	db	1.663
6	Total-hexadoxins	35.41	1.407e4	1.110e4	0.978	1.27	1.24	143.3	YES	NO	dd	bd	5.518

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.54	6.268e4	5.842e4	1.268	1.07	1.05	494.5	YES	NO	bd	bb	30.247
2	1234679-HPCDD	39.49	7.108e4	6.952e4	1.473	1.02	1.05	624.5	YES	NO	bb	bd	30.224

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.32	1.043e3	1.505e3	1.090	0.69	0.77	13.5	YES	NO	bd	bb	0.401
2	Total-tetradoxins	25.85	6.708e2	7.948e2	1.090	0.84	0.77	10.1	YES	NO	bd	bd	0.231
3	Total-tetradoxins	25.29	1.450e3	1.638e3	1.090	0.89	0.77	21.3	YES	NO	db	bb	0.486
4	Total-tetradoxins	24.28	3.957e2	4.758e2	1.090	0.83	0.77	5.8	YES	NO	bb	bb	0.137
5	Total-tetradoxins	24.07	2.768e3	3.171e3	1.090	0.87	0.77	48.0	YES	NO	bb	bb	0.935
6	12378-PeCDD	31.81	1.643e3	1.080e3	1.152	1.52	1.55	25.2	YES	NO	bb	bd	0.612
7	Total-pentadoxins	31.14	1.331e3	7.890e2	1.562	1.69	1.55	22.0	YES	NO	bb	bb	0.351
8	Total-pentadoxins	30.56	2.380e3	1.653e3	1.562	1.44	1.55	43.4	YES	NO	dd	dd	0.668
9	Total-pentadoxins	30.42	1.212e3	8.914e2	1.562	1.36	1.55	23.7	YES	NO	bd	bd	0.348
10	Total-pentadoxins	30.20	3.220e3	1.887e3	1.562	1.71	1.55	62.3	YES	NO	bb	bb	0.846
11	Total-hexadoxins	35.05	6.471e3	5.157e3	0.978	1.25	1.24	94.8	YES	NO	bd	bb	2.550
12	124679-HxCDD	34.28	1.378e4	1.179e4	1.153	1.17	1.24	215.5	YES	NO	bb	bb	4.785
13	123789-HxCDD	36.78	2.301e3	1.835e3	0.873	1.25	1.24	34.7	YES	NO	bb	bb	1.015
14	Total-hexadoxins	36.56	6.126e2	5.497e2	0.978	1.11	1.24	9.9	YES	NO	bb	bb	0.255
15	123678-HxCDD	36.40	3.871e3	3.549e3	0.950	1.09	1.24	64.2	YES	NO	db	db	1.663
16	Total-hexadoxins	35.41	1.407e4	1.110e4	0.978	1.27	1.24	143.3	YES	NO	dd	bd	5.518
17	1234678-HpCDD	40.54	6.268e4	5.842e4	1.268	1.07	1.05	494.5	YES	NO	bd	bb	30.247
18	1234679-HPCDD	39.49	7.108e4	6.952e4	1.473	1.02	1.05	624.5	YES	NO	bb	bd	30.224
19	OCDD	45.38	3.021e5	3.359e5	1.089	0.90	0.89	3696.8	YES	NO	bd	bb	220.266
20	12479-PECDD	29.11	7.093e3	4.546e3	2.164	1.56	1.55	86.8	YES	NO	MM	MM	1.392

## Quantify Totals Report MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.28	2.250e3	2.921e3	1.072	0.77	0.77	25.1	YES	NO	dd	db	0.635
2	Total-tetrafurans	24.04	1.202e4	1.701e4	1.072	0.71	0.77	121.7	YES	NO	dd	dd	3.564
3	Total-tetrafurans	23.87	9.657e2	1.431e3	1.072	0.67	0.77	12.3	YES	NO	dd	dd	0.294
4	Total-tetrafurans	23.78	4.711e3	6.858e3	1.072	0.69	0.77	48.8	YES	NO	dd	dd	1.420
5	Total-tetrafurans	23.67	2.076e3	3.139e3	1.072	0.66	0.77	20.2	YES	NO	dd	dd	0.640
6	Total-tetrafurans	23.49	1.326e3	1.814e3	1.072	0.73	0.77	15.2	YES	NO	dd	dd	0.385
7	Total-tetrafurans	23.36	1.445e4	1.965e4	1.072	0.74	0.77	145.9	YES	NO	bd	bd	4.186
8	Total-tetrafurans	22.78	2.730e3	4.084e3	1.072	0.67	0.77	30.9	YES	NO	bb	bb	0.836
9	Total-Furans	27.95	1.744e3	2.149e3	1.090	0.81	0.77	18.2	YES	NO	bb	bb	0.470
10	Total-tetrafurans	27.08	2.300e3	3.206e3	1.072	0.72	0.77	25.2	YES	NO	bb	bb	0.676
11	Total-tetrafurans	26.43	6.278e3	8.531e3	1.072	0.74	0.77	71.2	YES	NO	db	db	1.818
12	Total-tetrafurans	26.27	2.845e3	3.947e3	1.072	0.72	0.77	30.1	YES	NO	dd	dd	0.834
13	2378-TCDF	26.05	6.666e3	8.689e3	0.985	0.77	0.77	69.9	YES	NO	bd	bd	2.052
14	Total-tetrafurans	25.38	4.212e3	5.601e3	1.072	0.75	0.77	37.4	YES	NO	db	bd	1.205
15	Total-tetrafurans	25.13	2.812e3	3.621e3	1.072	0.78	0.77	31.8	YES	NO	dd	bb	0.790
16	Total-tetrafurans	24.94	8.535e3	1.217e4	1.072	0.70	0.77	86.5	YES	NO	dd	db	2.542
17	Total-tetrafurans	24.79	1.658e3	2.326e3	1.072	0.71	0.77	14.2	YES	NO	dd	dd	0.489
18	Total-tetrafurans	24.70	3.108e3	4.428e3	1.072	0.70	0.77	26.4	YES	NO	dd	dd	0.925
19	Total-pentafurans	28.93	4.297e3	2.722e3	0.924	1.58	1.55	48.3	YES	NO	dd	dd	1.168
20	23478-PeCDF	31.56	3.696e3	2.129e3	1.008	1.74	1.55	56.6	YES	NO	dd	db	0.911
21	Total-pentafurans	31.41	6.705e3	4.758e3	0.924	1.41	1.55	92.1	YES	NO	dd	dd	1.908
22	Total-pentafurans	31.30	1.755e3	1.129e3	0.924	1.55	1.55	27.0	YES	NO	bd	bd	0.480
23	Total-pentafurans	30.52	8.971e2	5.518e2	0.924	1.63	1.55	14.5	YES	NO	db	db	0.241
24	Total-pentafurans	30.42	3.675e3	2.439e3	0.924	1.51	1.55	56.4	YES	NO	bd	bd	1.018
25	12378-PeCDF	30.23	1.872e3	1.325e3	0.906	1.41	1.55	24.9	YES	NO	bb	db	0.531
26	Total-pentafurans	29.85	8.179e3	5.185e3	0.924	1.58	1.55	99.8	YES	NO	db	dd	2.225
27	Total-pentafurans	29.75	1.066e3	7.679e2	0.924	1.39	1.55	17.9	YES	NO	dd	dd	0.305
28	Total-pentafurans	29.42	7.244e2	4.222e2	0.924	1.72	1.55	8.5	YES	NO	dd	dd	0.191
29	Total-pentafurans	29.13	2.928e4	1.785e4	0.924	1.64	1.55	292.7	YES	NO	dd	MM	7.844
30	123678-HxCDF	35.31	3.680e3	3.143e3	1.019	1.17	1.24	47.9	YES	NO	db	db	1.202
31	123478-HxCDF	35.17	7.634e3	5.946e3	1.045	1.28	1.24	104.2	YES	NO	bd	dd	2.466
32	Total-hexafurans	35.03	1.748e3	1.574e3	1.063	1.11	1.24	27.2	YES	NO	bb	bd	0.609
33	Total-hexafurans	34.55	3.773e4	3.020e4	1.063	1.25	1.24	538.8	YES	NO	bb	bb	12.449
34	Total-hexafurans	33.73	3.186e4	2.641e4	1.063	1.21	1.24	417.1	YES	NO	bb	bb	10.680
35	123468-HxCDF	33.51	7.581e3	6.300e3	1.156	1.20	1.24	103.3	YES	NO	bb	bb	2.279
36	123789-HxCDF	37.16	1.590e3	1.221e3	0.992	1.30	1.24	17.2	YES	NO	bb	bb	0.610
37	234678-HxCDF	36.17	5.916e3	4.740e3	1.101	1.25	1.24	53.7	YES	NO	bb	bb	1.915

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:34 Pacific Standard Time

ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234789-HpCDF	41.31	2.663e3	2.775e3	1.192	0.96	1.05	35.9	YES	NO	bb	bb	1.392
39	Total-heptafurans	39.70	7.111e4	7.132e4	1.218	1.00	1.05	996.1	YES	NO	bb	bd	32.422
40	1234678-HpCDF	39.03	6.310e4	6.416e4	1.243	0.98	1.05	902.7	YES	NO	bd	bd	25.984
41	OCDF	45.62	4.766e4	5.420e4	1.303	0.88	0.89	720.9	YES	NO	bb	bd	29.404
42	Total-penta1	27.47	6.881e4	4.620e4		1.49	1.55	822.8	YES	NO	bb	bb	18.856
43	Total-tetradioxins	26.32	1.043e3	1.505e3	1.090	0.69	0.77	13.5	YES	NO	bd	bb	0.401
44	Total-tetradioxins	25.85	6.708e2	7.948e2	1.090	0.84	0.77	10.1	YES	NO	bd	bd	0.231
45	Total-tetradioxins	25.29	1.450e3	1.638e3	1.090	0.89	0.77	21.3	YES	NO	db	bb	0.486
46	Total-tetradioxins	24.28	3.957e2	4.758e2	1.090	0.83	0.77	5.8	YES	NO	bb	bb	0.137
47	Total-tetradioxins	24.07	2.768e3	3.171e3	1.090	0.87	0.77	48.0	YES	NO	bb	bb	0.935
48	12378-PeCDD	31.81	1.643e3	1.080e3	1.152	1.52	1.55	25.2	YES	NO	bb	bd	0.612
49	Total-pentadioxins	31.14	1.331e3	7.890e2	1.562	1.69	1.55	22.0	YES	NO	bb	bb	0.351
50	Total-pentadioxins	30.56	2.380e3	1.653e3	1.562	1.44	1.55	43.4	YES	NO	dd	dd	0.668
51	Total-pentadioxins	30.42	1.212e3	8.914e2	1.562	1.36	1.55	23.7	YES	NO	bd	bd	0.348
52	Total-pentadioxins	30.20	3.220e3	1.887e3	1.562	1.71	1.55	62.3	YES	NO	bb	bb	0.846
53	Total-hexadioxins	35.05	6.471e3	5.157e3	0.978	1.25	1.24	94.8	YES	NO	bd	bb	2.550
54	124679-HxCDD	34.28	1.378e4	1.179e4	1.153	1.17	1.24	215.5	YES	NO	bb	bb	4.785
55	123789-HxCDD	36.78	2.301e3	1.835e3	0.873	1.25	1.24	34.7	YES	NO	bb	bb	1.015
56	Total-hexadioxins	36.56	6.126e2	5.497e2	0.978	1.11	1.24	9.9	YES	NO	bb	bb	0.255
57	123678-HxCDD	36.40	3.871e3	3.549e3	0.950	1.09	1.24	64.2	YES	NO	db	db	1.663
58	Total-hexadioxins	35.41	1.407e4	1.110e4	0.978	1.27	1.24	143.3	YES	NO	dd	bd	5.518
59	1234678-HpCDD	40.54	6.268e4	5.842e4	1.268	1.07	1.05	494.5	YES	NO	bd	bb	30.247
60	1234679-HPCDD	39.49	7.108e4	6.952e4	1.473	1.02	1.05	624.5	YES	NO	bb	bd	30.224
61	OCDD	45.38	3.021e5	3.359e5	1.089	0.90	0.89	3696.8	YES	NO	bd	bb	220.266
62	12479-PECDD	29.11	7.093e3	4.546e3	2.164	1.56	1.55	86.8	YES	NO	MM	MM	1.392

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.44	1.326e6					20.4	YES		db		
2	FUNCTION1 PFK	21.27	3.034e5					11.2	YES		bd		
3	FUNCTION1 PFK	27.76	3.514e3					0.8	NO		bb		
4	FUNCTION1 PFK	24.10	2.619e5					3.8	YES		bb		
5	FUNCTION1 PFK	23.83	6.343e4					4.4	YES		bb		
6	FUNCTION1 PFK	22.93	4.543e6					14.9	YES		bb		
7	FUNCTION1 PFK	21.89	5.202e6					33.6	YES		db		
8	FUNCTION1 PFK	21.69	1.130e6					29.8	YES		bd		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk****PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.64	1.191e4					2.0	NO		bb		0.000
2	FUNCTION2 PFK	29.45	2.146e4					2.4	NO		db		0.000
3	FUNCTION2 PFK	29.34	1.651e4					2.2	NO		dd		0.000
4	FUNCTION2 PFK	29.26	9.396e3					1.7	NO		bd		0.000
5	FUNCTION2 PFK	29.09	1.875e4					1.7	NO		bb		0.000
6	FUNCTION2 PFK	28.51	1.641e4					3.5	YES		db		0.000
7	FUNCTION2 PFK	28.47	5.131e4					5.2	YES		dd		0.000
8	FUNCTION2 PFK	28.39	3.475e4					4.8	YES		dd		0.000
9	FUNCTION2 PFK	28.29	1.194e5					8.6	YES		bd		0.000
10	FUNCTION2 PFK	32.25	7.300e3					1.6	NO		dd		0.000
11	FUNCTION2 PFK	32.21	7.220e3					1.8	NO		bd		0.000
12	FUNCTION2 PFK	32.17	1.245e3					0.8	NO		bb		0.000
13	FUNCTION2 PFK	32.04	1.007e4					1.6	NO		bb		0.000
14	FUNCTION2 PFK	31.80	5.741e3					1.5	NO		bb		0.000
15	FUNCTION2 PFK	31.50	1.718e4					1.7	NO		bb		0.000
16	FUNCTION2 PFK	31.33	2.563e3					0.9	NO		db		0.000
17	FUNCTION2 PFK	31.30	4.120e3					1.3	NO		bd		0.000
18	FUNCTION2 PFK	30.97	2.688e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	30.90	5.840e3					1.4	NO		bb		0.000
20	FUNCTION2 PFK	30.77	1.230e4					2.1	NO		bb		0.000
21	FUNCTION2 PFK	30.56	7.116e3					1.5	NO		bb		0.000
22	FUNCTION2 PFK	30.43	1.533e4					2.5	NO		db		0.000
23	FUNCTION2 PFK	30.38	4.924e3					1.5	NO		bd		0.000
24	FUNCTION2 PFK	30.19	3.725e3					0.9	NO		bb		0.000
25	FUNCTION2 PFK	30.15	1.899e3					0.8	NO		bb		0.000
26	FUNCTION2 PFK	32.74	1.512e3					0.6	NO		bb		0.000
27	FUNCTION2 PFK	32.56	4.319e3					1.3	NO		bb		0.000
28	FUNCTION2 PFK	32.44	3.688e3					1.1	NO		bb		0.000
29	FUNCTION2 PFK	32.33	1.970e4					2.1	NO		db		0.000



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

## PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.94	1.352e5					4.4	YES		bd		0.000
2	FUNCTION3 PFK	34.82	2.935e5					4.2	YES		db		0.000
3	FUNCTION3 PFK	34.64	7.471e4					2.9	NO		dd		0.000
4	FUNCTION3 PFK	34.55	7.676e4					2.1	NO		dd		0.000
5	FUNCTION3 PFK	34.42	7.944e3					0.8	NO		bd		0.000
6	FUNCTION3 PFK	34.07	5.839e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	33.84	4.686e4					1.6	NO		db		0.000
8	FUNCTION3 PFK	33.70	7.067e4					2.3	NO		dd		0.000
9	FUNCTION3 PFK	33.62	7.982e4					2.9	NO		dd		0.000
10	FUNCTION3 PFK	33.49	3.749e5					3.8	YES		bd		0.000
11	FUNCTION3 PFK	33.22	1.236e5					3.2	YES		bb		0.000
12	FUNCTION3 PFK	36.17	2.136e4					1.2	NO		db		0.000
13	FUNCTION3 PFK	36.06	4.753e4					1.6	NO		dd		0.000
14	FUNCTION3 PFK	35.90	4.727e4					0.8	NO		bd		0.000
15	FUNCTION3 PFK	35.73	3.315e4					1.7	NO		db		0.000
16	FUNCTION3 PFK	35.66	6.327e4					2.3	NO		bd		0.000
17	FUNCTION3 PFK	35.59	3.301e4					2.5	NO		db		0.000
18	FUNCTION3 PFK	35.47	1.426e5					4.1	YES		dd		0.000
19	FUNCTION3 PFK	35.44	3.269e4					3.6	YES		bd		0.000
20	FUNCTION3 PFK	35.40	2.550e4					1.8	NO		db		0.000
21	FUNCTION3 PFK	35.32	5.245e4					2.8	NO		dd		0.000
22	FUNCTION3 PFK	35.28	5.511e4					3.4	YES		dd		0.000
23	FUNCTION3 PFK	35.24	4.802e4					3.3	YES		bd		0.000
24	FUNCTION3 PFK	35.18	8.175e3					1.8	NO		bb		0.000
25	FUNCTION3 PFK	35.14	4.721e4					3.2	YES		bb		0.000
26	FUNCTION3 PFK	35.06	7.549e4					4.7	YES		db		0.000
27	FUNCTION3 PFK	35.02	6.887e4					4.5	YES		dd		0.000
28	FUNCTION3 PFK	37.80	5.067e3					0.5	NO		db		0.000
29	FUNCTION3 PFK	37.71	2.736e4					0.8	NO		bd		0.000
30	FUNCTION3 PFK	37.49	1.016e4					0.9	NO		db		0.000
31	FUNCTION3 PFK	37.48	3.105e4					0.7	NO		dd		0.000
32	FUNCTION3 PFK	37.33	2.455e5					2.6	NO		bd		0.000
33	FUNCTION3 PFK	37.06	1.151e5					4.6	YES		db		0.000
34	FUNCTION3 PFK	36.98	1.187e5					4.7	YES		dd		0.000
35	FUNCTION3 PFK	36.93	1.430e5					4.9	YES		dd		0.000
36	FUNCTION3 PFK	36.86	1.787e5					4.8	YES		dd		0.000
37	FUNCTION3 PFK	36.76	8.678e4					4.2	YES		dd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	36.67	1.348e5					3.9	YES		dd		0.000
39	FUNCTION3 PFK	36.59	1.073e5					3.7	YES		dd		0.000
40	FUNCTION3 PFK	36.51	9.646e4					3.5	YES		dd		0.000
41	FUNCTION3 PFK	36.43	1.058e5					3.2	YES		dd		0.000
42	FUNCTION3 PFK	36.34	8.102e4					2.9	NO		dd		0.000
43	FUNCTION3 PFK	36.24	4.773e4					2.0	NO		bd		0.000
44	FUNCTION3 PFK	37.87	3.911e3					0.4	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.18	6.563e3					1.6	NO		bb		
2	FUNCTION4 PFK	39.54	5.006e3					1.4	NO		bb		
3	FUNCTION4 PFK	39.40	5.285e3					1.4	NO		bb		
4	FUNCTION4 PFK	38.69	8.751e3					1.7	NO		bb		
5	FUNCTION4 PFK	38.39	6.828e3					1.6	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.02	4.161e3					1.3	NO		bb		
2	FUNCTION5 PFK	45.05	6.922e3					1.9	NO		bb		
3	FUNCTION5 PFK	44.80	6.900e3					1.7	NO		bb		
4	FUNCTION5 PFK	44.48	3.283e3					1.1	NO		db		
5	FUNCTION5 PFK	44.45	9.382e2					0.7	NO		bd		
6	FUNCTION5 PFK	44.41	7.326e2					0.7	NO		bb		
7	FUNCTION5 PFK	44.07	1.634e3					0.8	NO		bb		
8	FUNCTION5 PFK	43.43	1.426e3					0.8	NO		bb		
9	FUNCTION5 PFK	46.45	3.561e3					1.3	NO		bb		
10	FUNCTION5 PFK	46.36	2.208e3					1.0	NO		bb		
11	FUNCTION5 PFK	46.24	5.436e2					0.5	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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**ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk****ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.94	8.194e2					27.7	YES		bb		0.000
2	FUNCTION1 HXCD...	27.53	8.614e1					3.7	YES		bb		0.000
3	FUNCTION1 HXCD...	27.06	2.043e3					66.0	YES		bb		0.000
4	FUNCTION1 HXCD...	26.41	6.233e3					207.3	YES		bb		0.000
5	FUNCTION1 HXCD...	26.18	5.009e2					17.3	YES		bb		0.000
6	FUNCTION1 HXCD...	26.05	3.020e3					101.3	YES		bb		0.000
7	FUNCTION1 HXCD...	25.38	1.835e3					56.7	YES		bb		0.000
8	FUNCTION1 HXCD...	24.04	3.428e3					114.1	YES		bb		0.000
9	FUNCTION1 HXCD...	23.02	2.162e2					4.4	YES		bb		0.000
10	FUNCTION1 HXCD...	22.22	1.605e2					3.2	YES		db		0.000
11	FUNCTION1 HXCD...	22.09	1.167e2					5.5	YES		bd		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	24.67	7.099e1					1.6	NO		bb		0.000
2	FUNCTION1 HPCD...	23.60	7.175e1					1.5	NO		bb		0.000
3	FUNCTION1 HPCD...	21.69	1.066e2					1.6	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.50	9.151e2					18.6	YES		bb		0.000
2	FUNCTION2 HPCD...	31.44	1.514e2					4.5	YES		db		0.000
3	FUNCTION2 HPCD...	31.40	9.960e1					3.0	NO		bd		0.000
4	FUNCTION2 HPCD...	29.24	1.462e3					33.0	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.50	8.736e1					2.6	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.68	2.920e3					73.6	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**  
Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
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Printed: Friday, December 30, 2022 09:55:34 Pacific Standard Time

**ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk**

**ETHERS6**

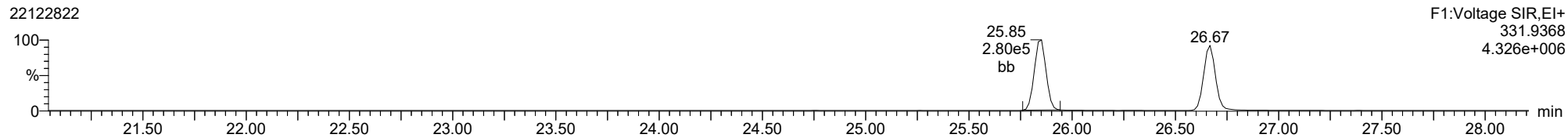
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

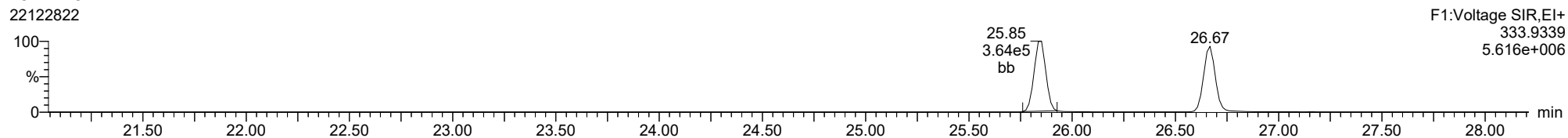
**13C-1234-TCDD**

22122822



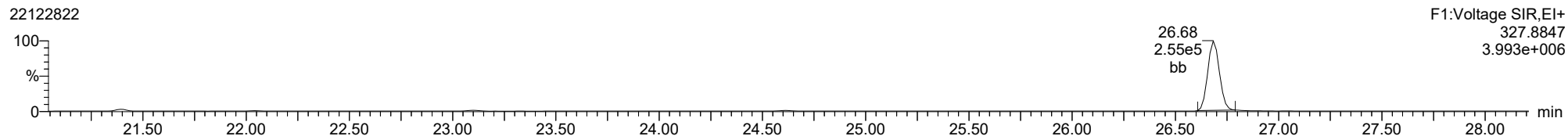
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22122822



**37CL-2378-TCDD**

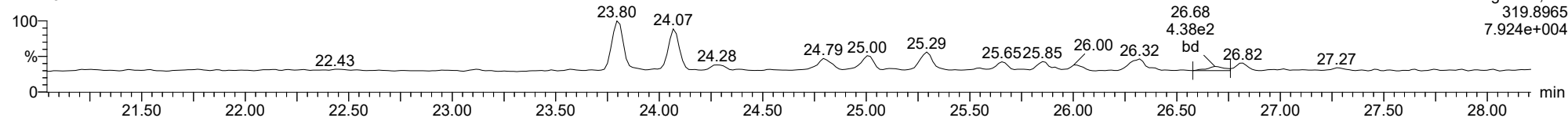
22122822



ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

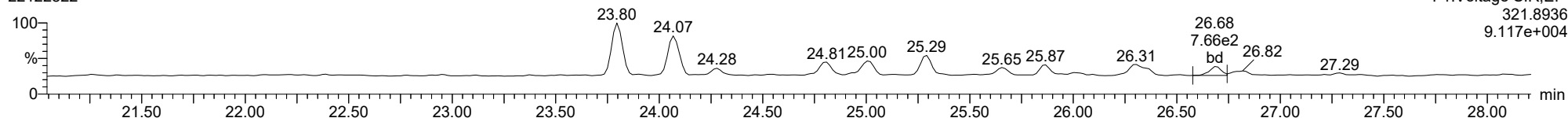
**2378-TCDD**

22122822



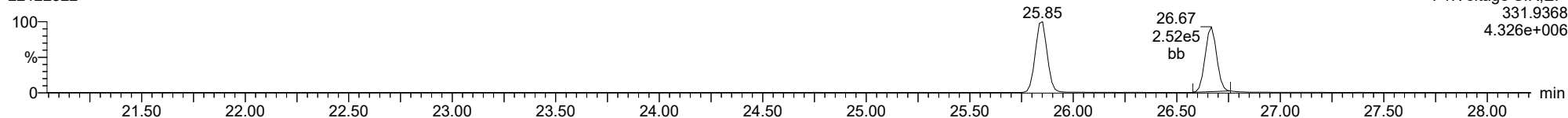
**2378-TCDD**

22122822



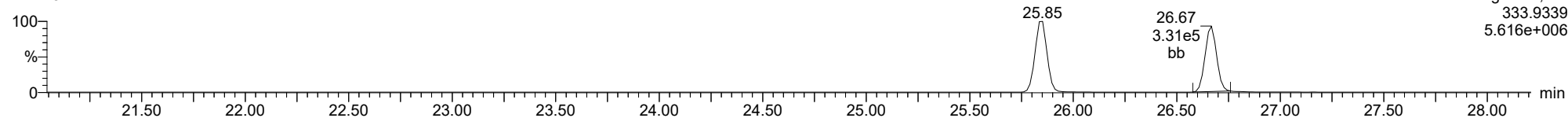
**13C-2378-TCDD**

22122822



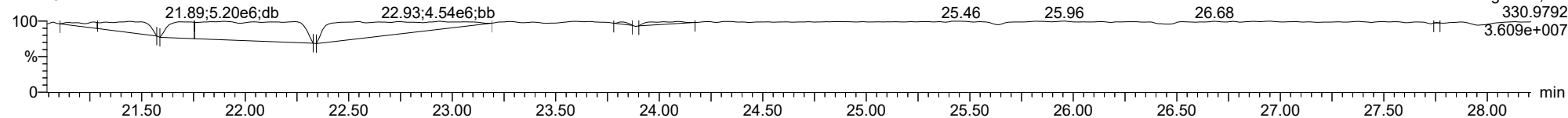
**13C-2378-TCDD**

22122822



**FUNCTION1 PFK**

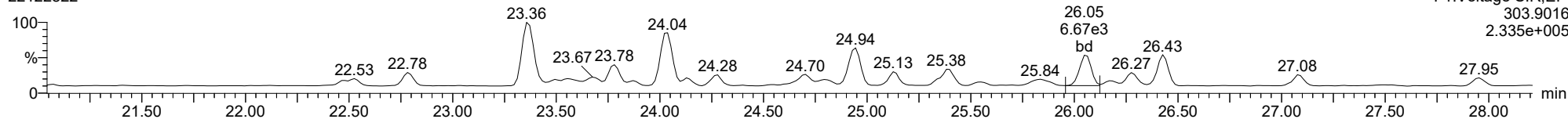
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

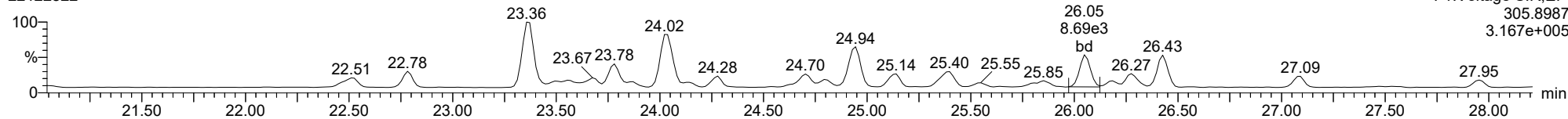
2378-TCDF

22122822



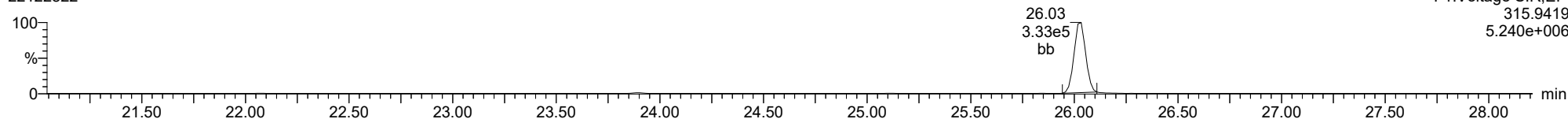
2378-TCDF

22122822



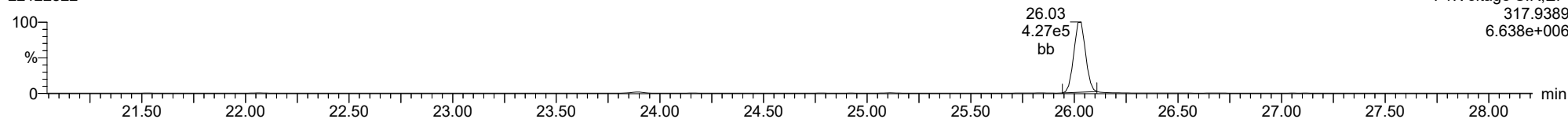
13C-2378-TCDF

22122822



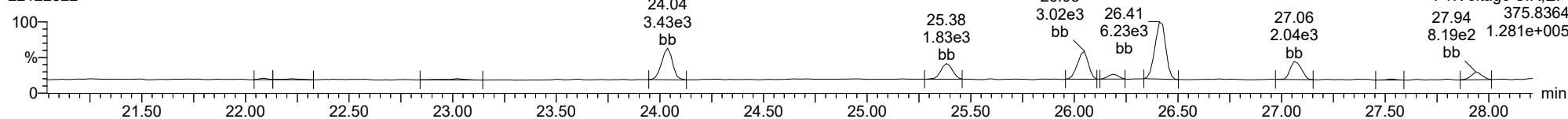
13C-2378-TCDF

22122822



FUNCTION1 HXCDPE

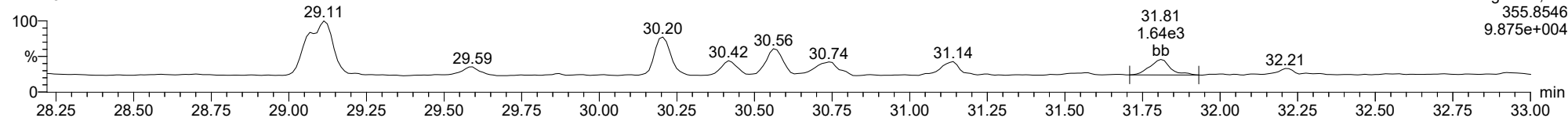
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

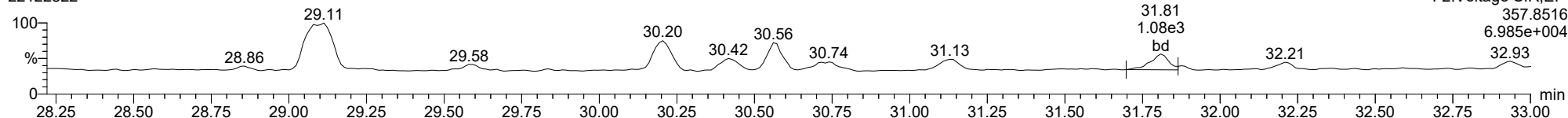
**12378-PeCDD**

22122822



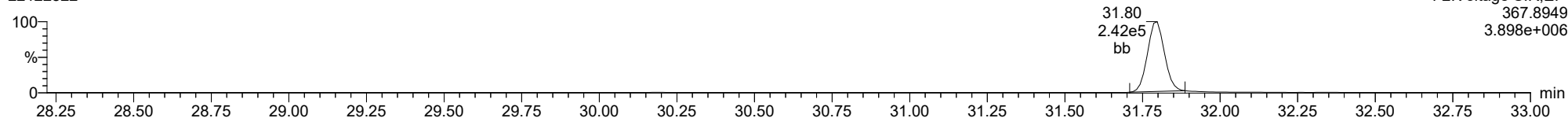
**12378-PeCDD**

22122822



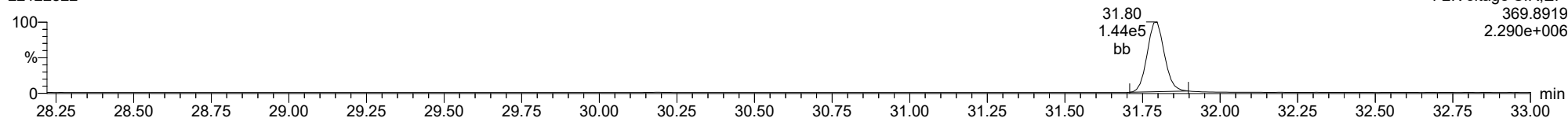
**13C-12378-PeCDD**

22122822



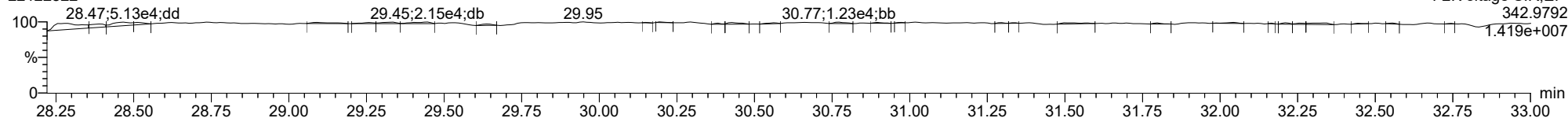
**13C-12378-PeCDD**

22122822



**FUNCTION2 PFK**

22122822

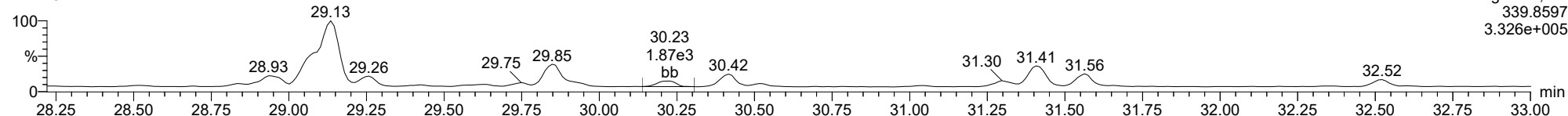




ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

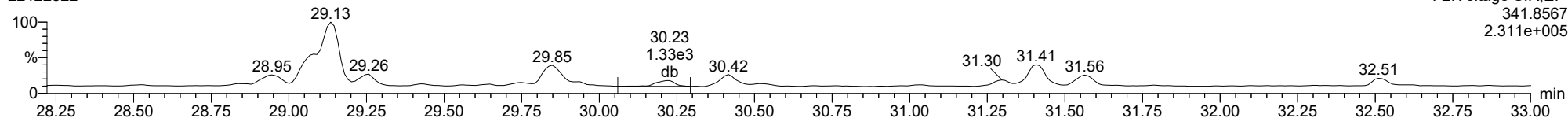
12378-PeCDF

22122822



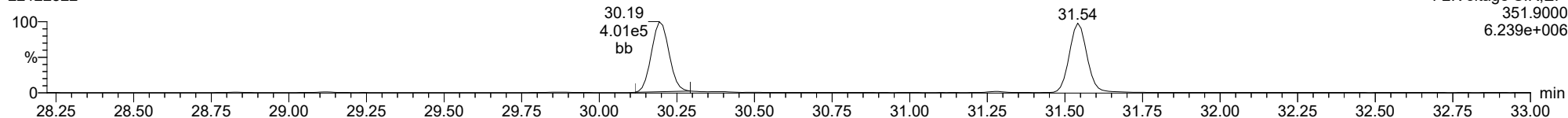
12378-PeCDF

22122822



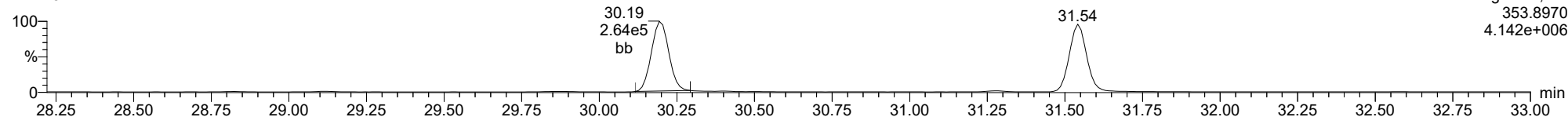
13C-12378-PeCDF

22122822



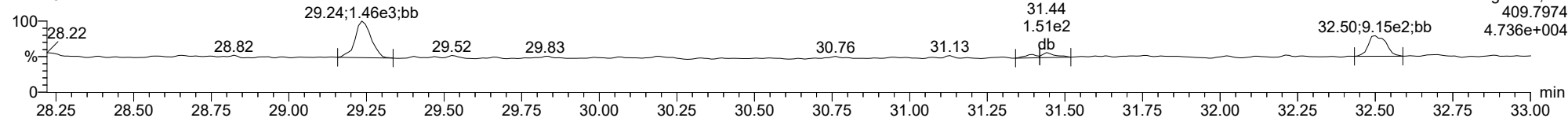
13C-12378-PeCDF

22122822



FUNCTION2 HPCDPE

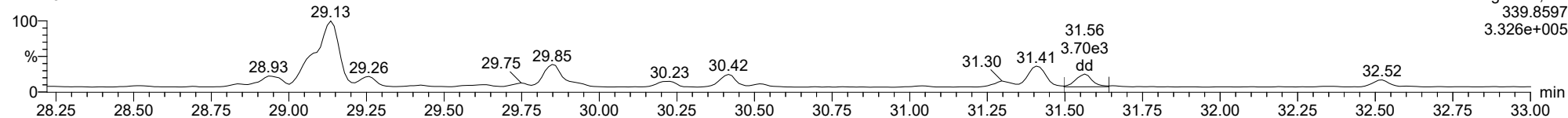
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

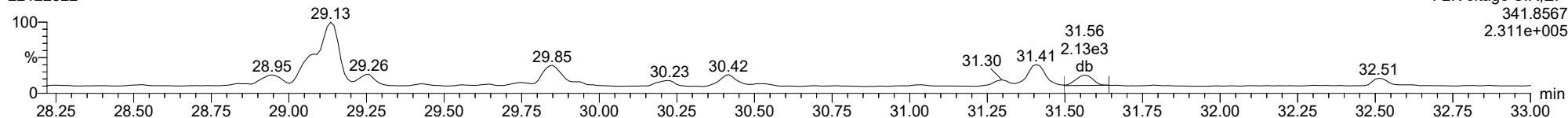
23478-PeCDF

22122822



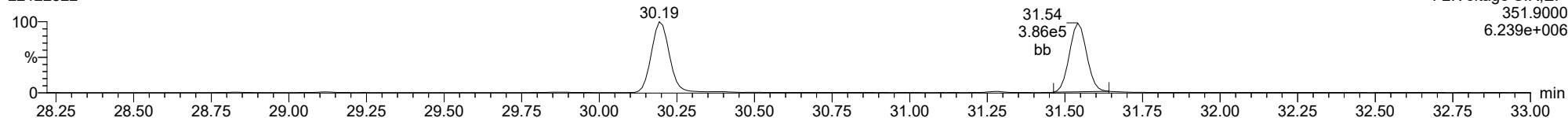
23478-PeCDF

22122822



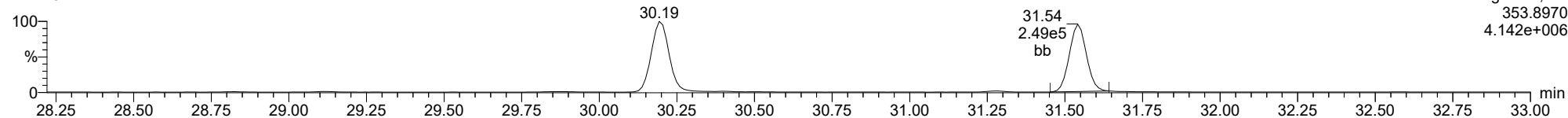
13C-23478-PeCDF

22122822



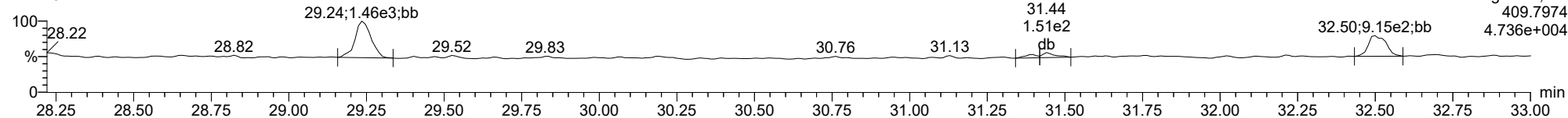
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22122822



FUNCTION2 HPCDPE

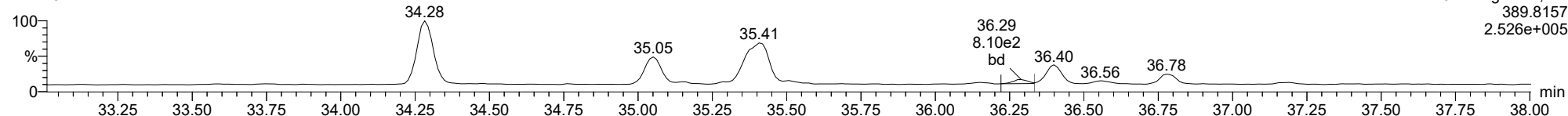
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

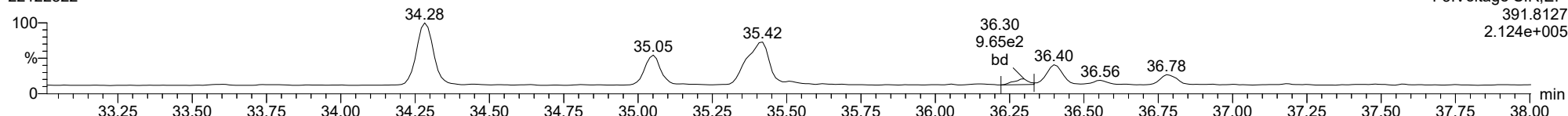
**123478-HxCDD**

22122822



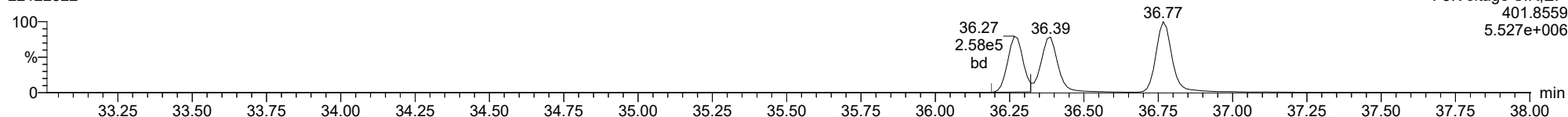
**123478-HxCDD**

22122822



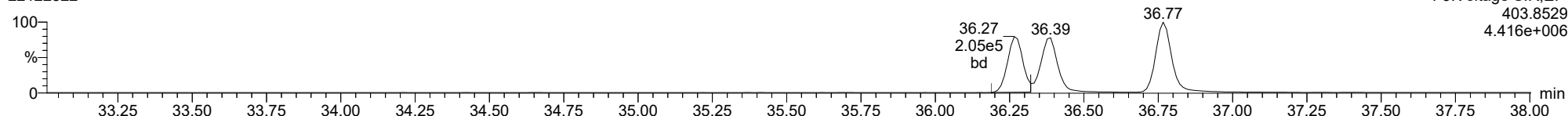
**13C-123478-HxCDD**

22122822



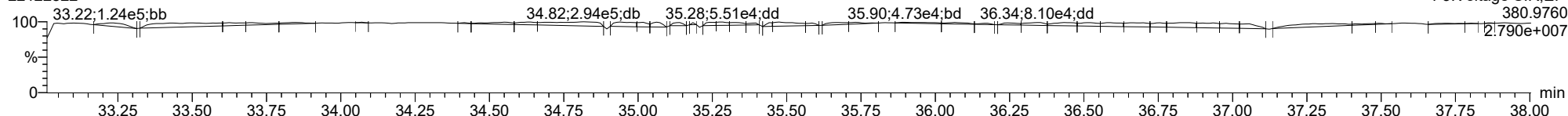
**13C-123478-HxCDD**

22122822



**FUNCTION3 PFK**

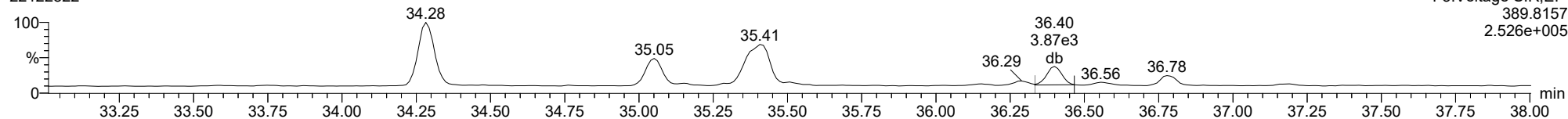
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

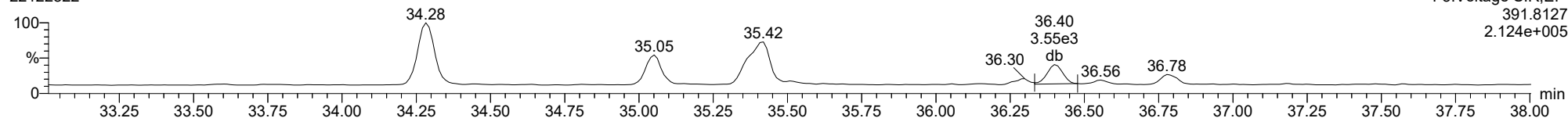
123678-HxCDD

22122822



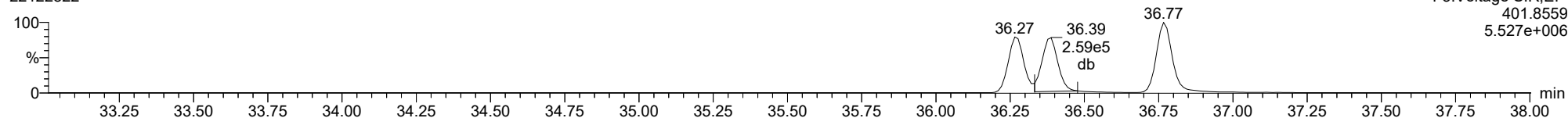
123678-HxCDD

22122822



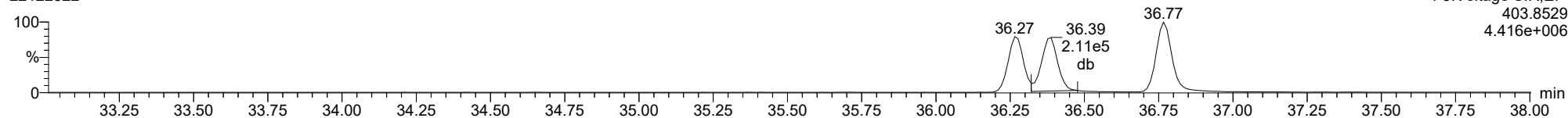
13C-123678-HxCDD

22122822



13C-123678-HxCDD

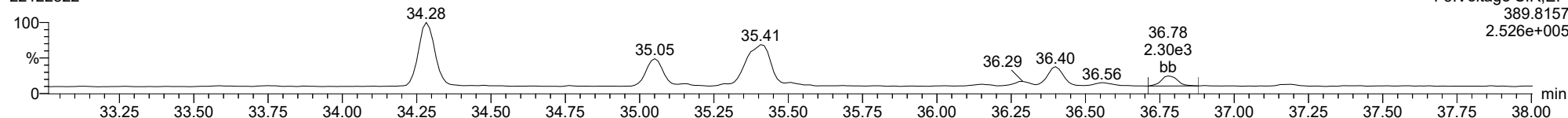
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

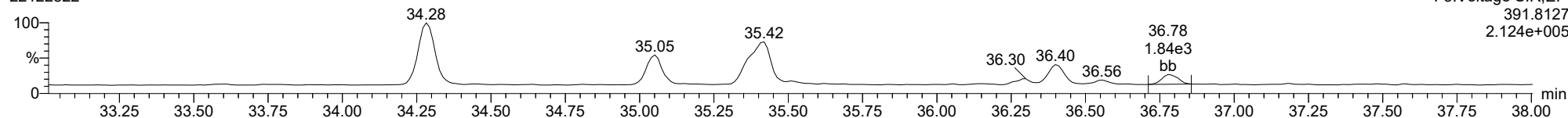
**123789-HxCDD**

22122822



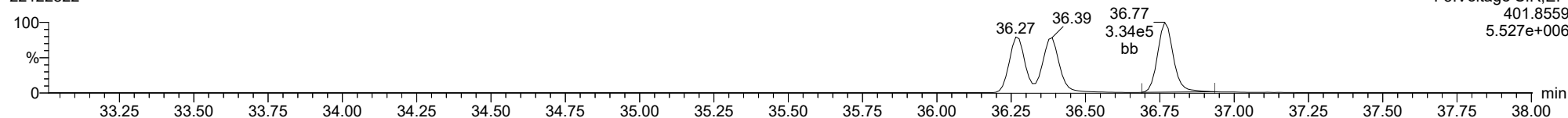
**123789-HxCDD**

22122822



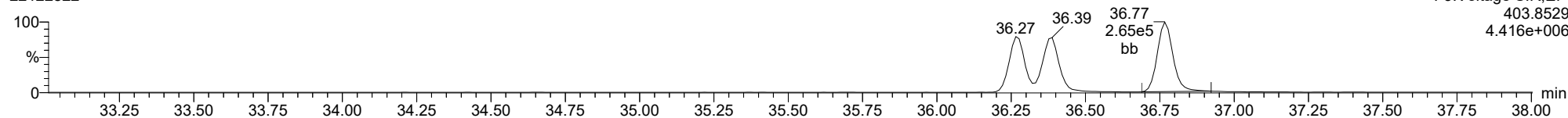
**13C-123789-HxCDD**

22122822



**13C-123789-HxCDD**

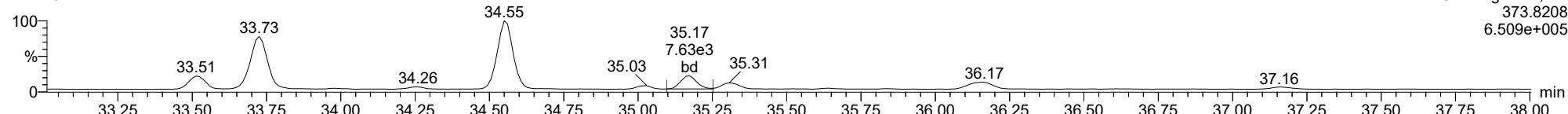
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

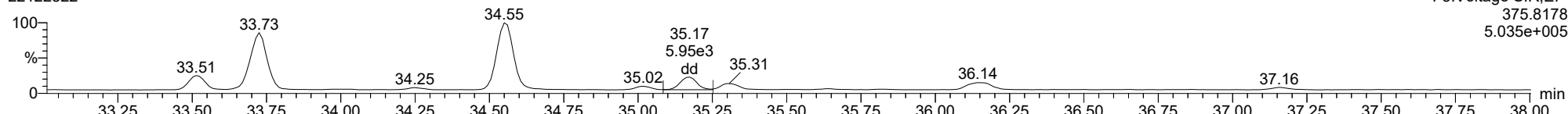
123478-HxCDF

22122822



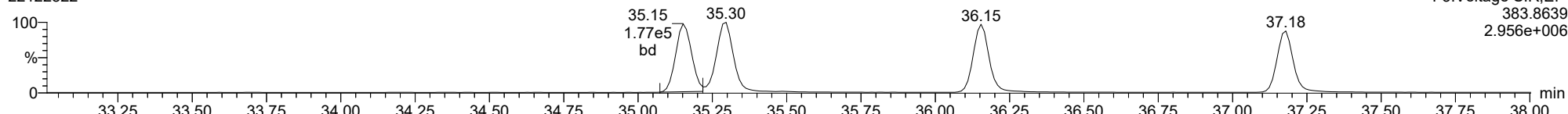
123478-HxCDF

22122822



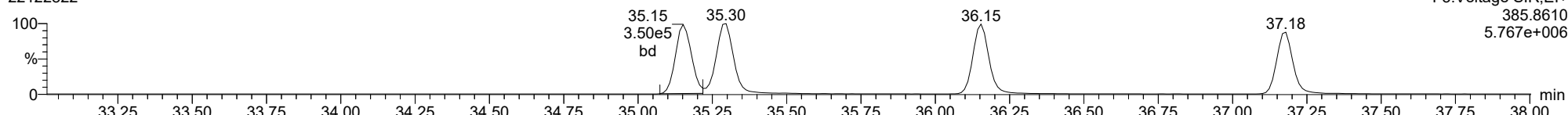
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22122822



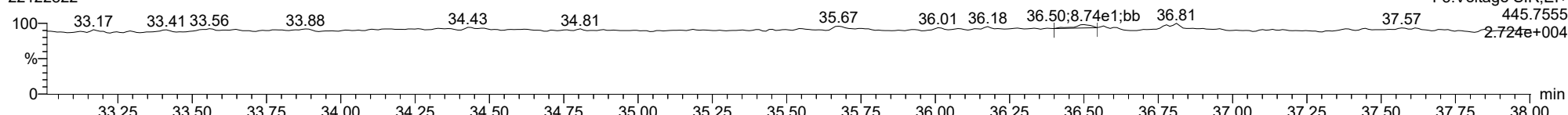
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22122822



FUNCTION3 OCDPE

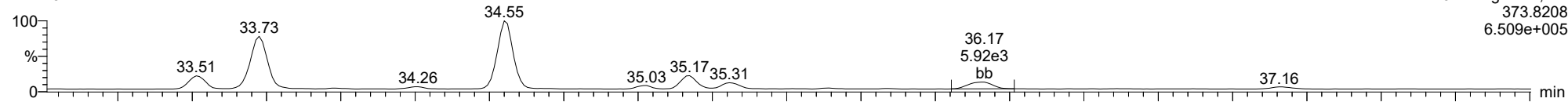
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

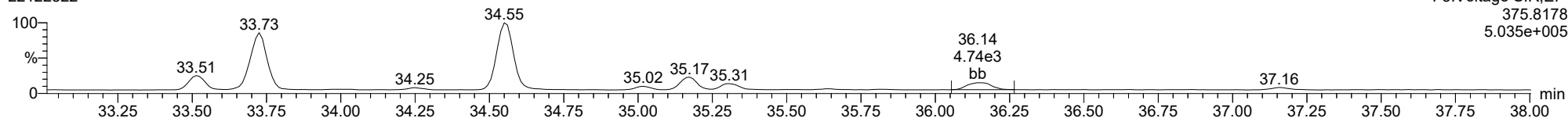
234678-HxCDF

22122822



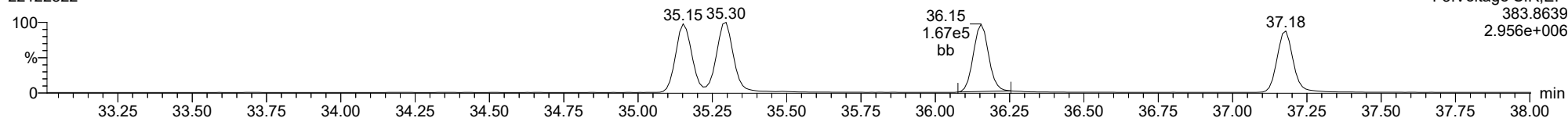
234678-HxCDF

22122822



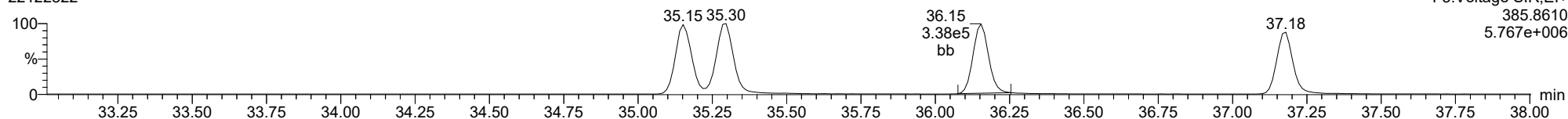
13C-234678-HxCDF

22122822



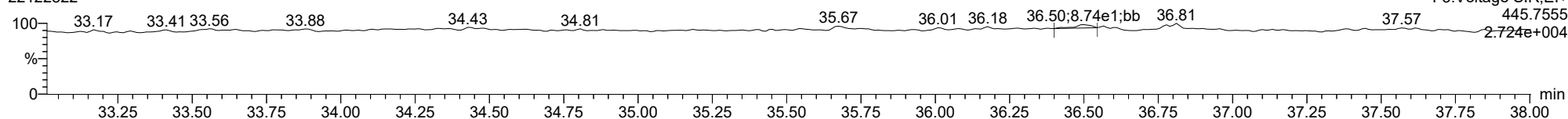
13C-234678-HxCDF

22122822



FUNCTION3 OCDPE

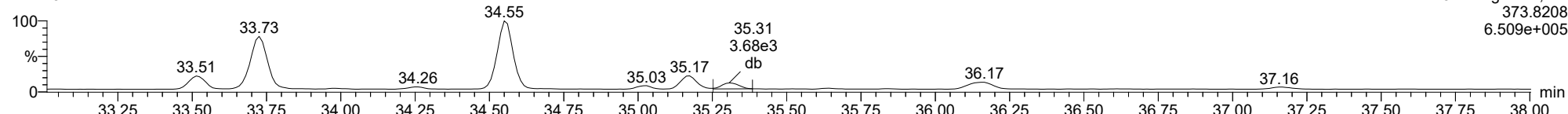
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

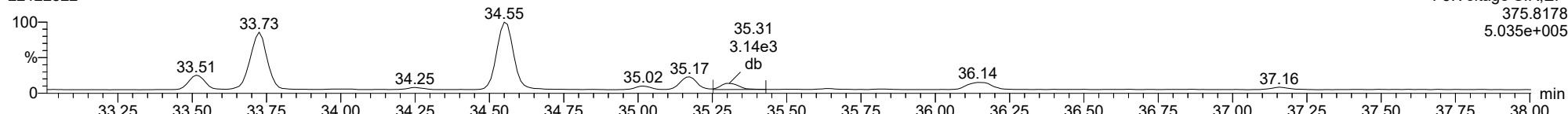
**123678-HxCDF**

22122822



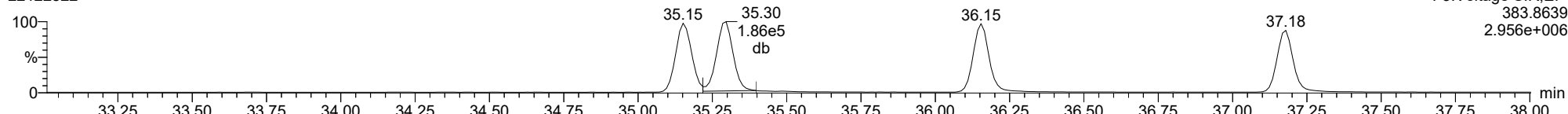
**123678-HxCDF**

22122822



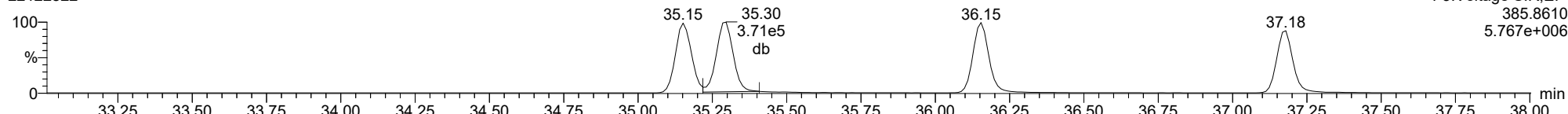
**13C-123678-HxCDF**

22122822



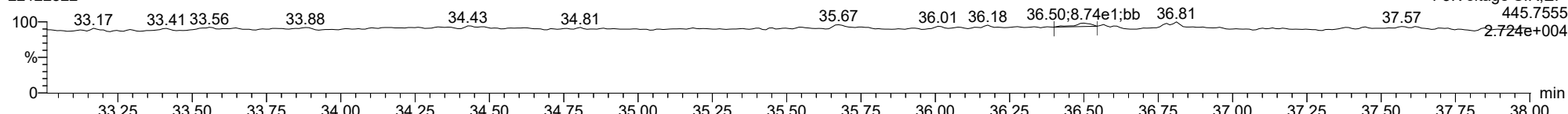
**13C-123678-HxCDF**

22122822



**FUNCTION3 OCDPE**

22122822

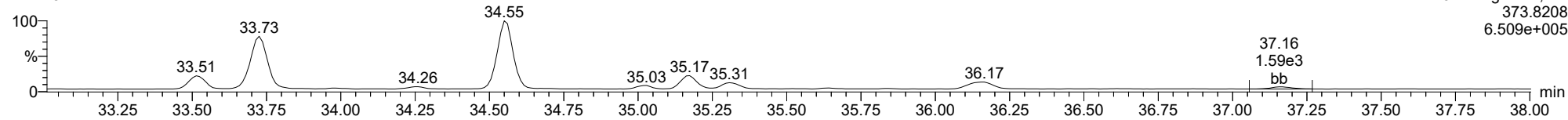




ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

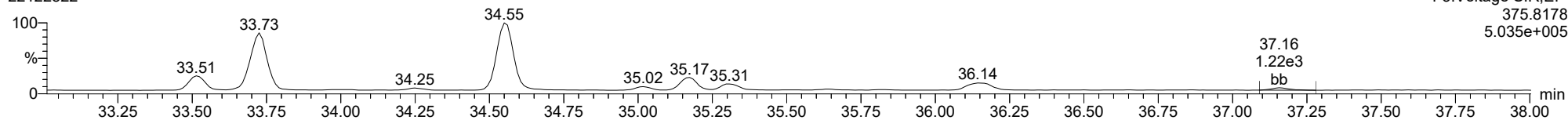
**123789-HxCDF**

22122822



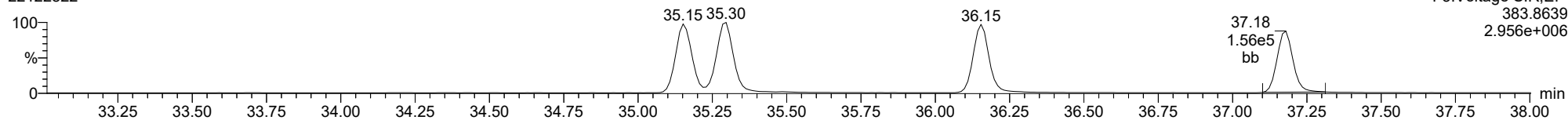
**123789-HxCDF**

22122822



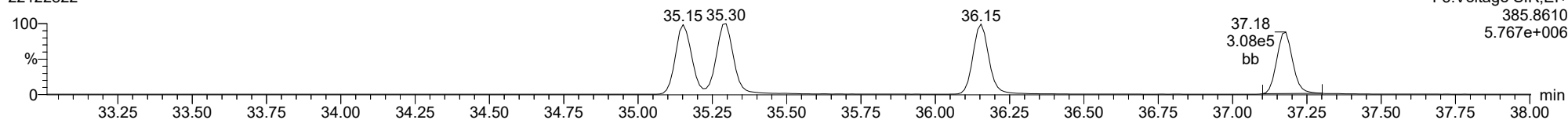
**13C-123789-HxCDF**

22122822



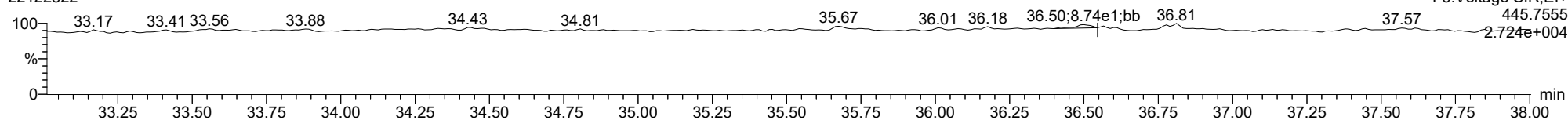
**13C-123789-HxCDF**

22122822



**FUNCTION3 OCDPE**

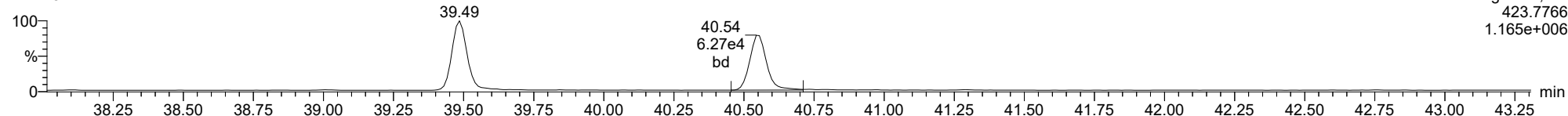
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ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

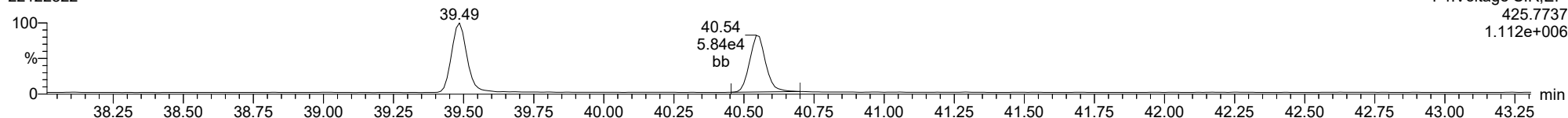
**1234678-HpCDD**

22122822



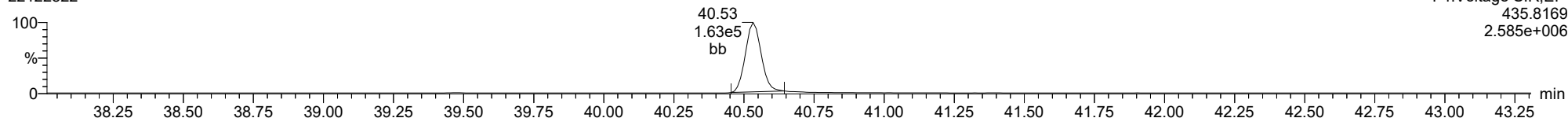
**1234678-HpCDD**

22122822



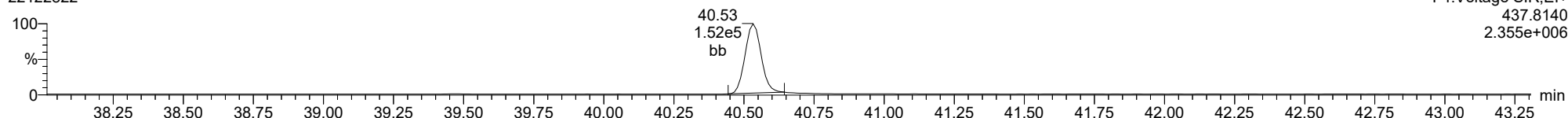
**13C-1234678-HpCDD**

22122822



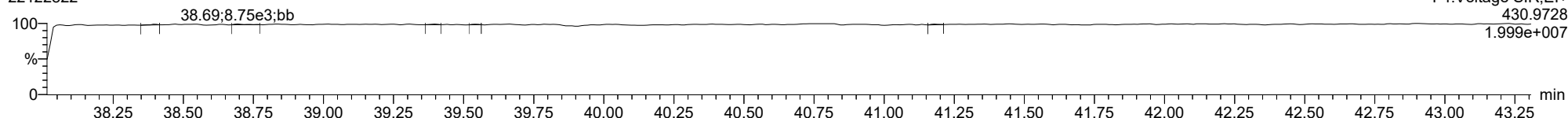
**13C-1234678-HpCDD**

22122822



**FUNCTION4 PFK**

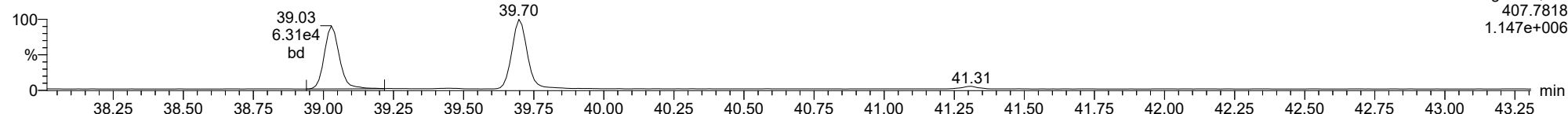
22122822



ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

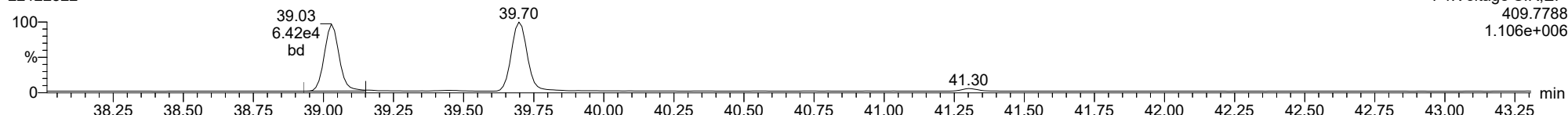
**1234678-HpCDF**

22122822



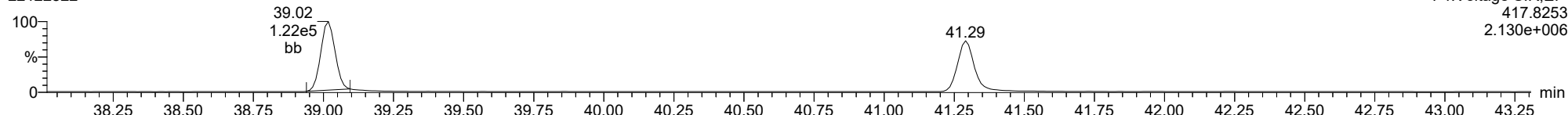
**1234678-HpCDF**

22122822



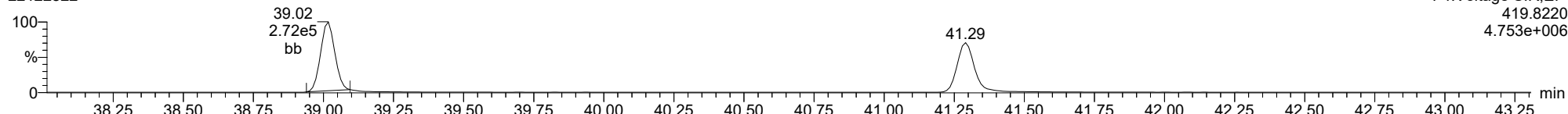
**13C-1234678-HpCDF**

22122822



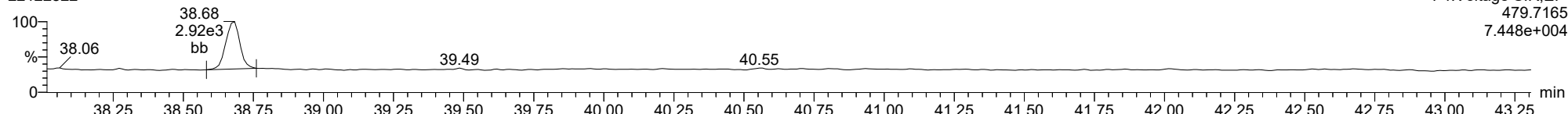
**13C-1234678-HpCDF**

22122822



**FUNCTION4 NCDPE**

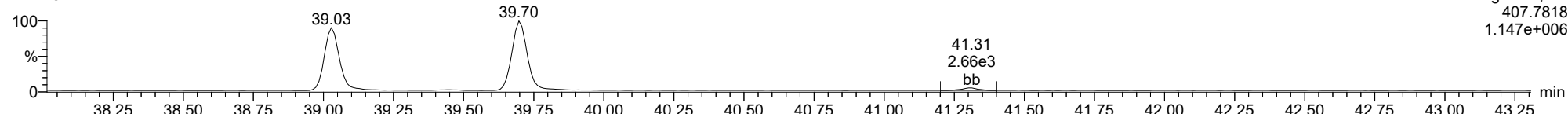
22122822



ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

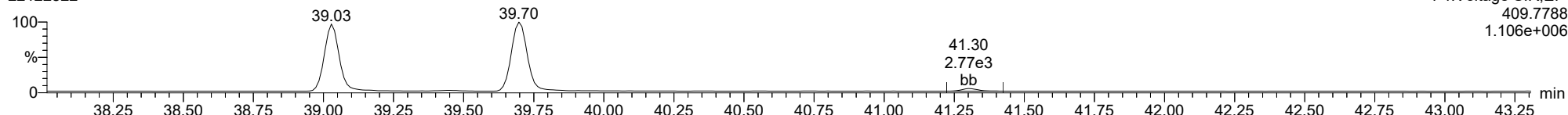
**1234789-HpCDF**

22122822



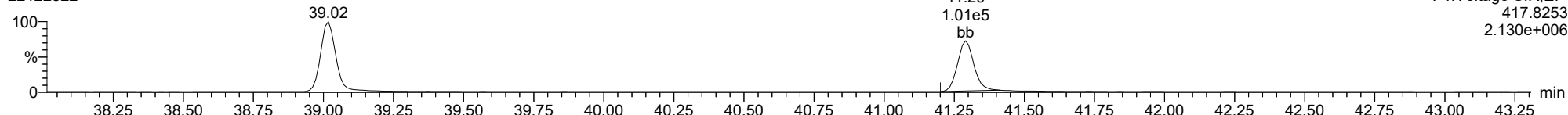
**1234789-HpCDF**

22122822



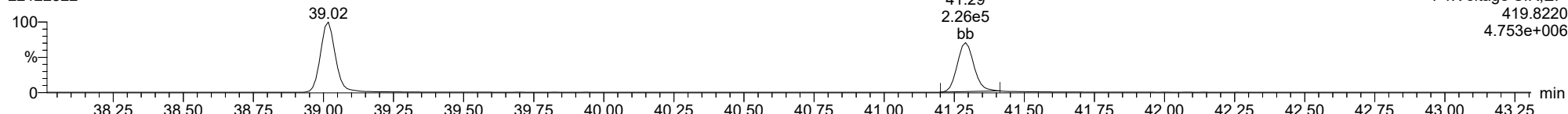
**13C-1234789-HpCDF**

22122822



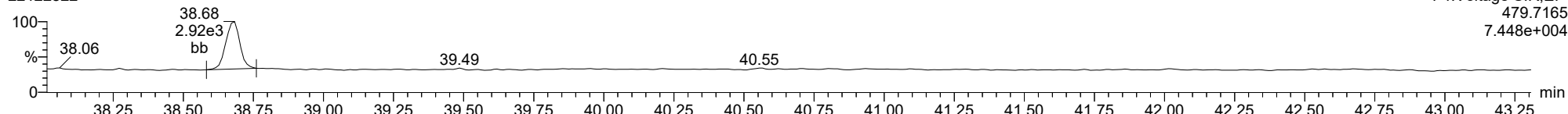
**13C-1234789-HpCDF**

22122822



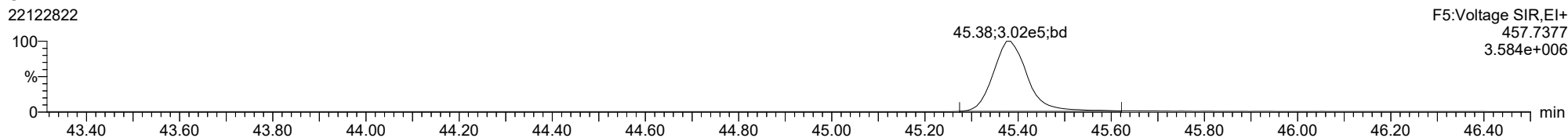
**FUNCTION4 NCDPE**

22122822

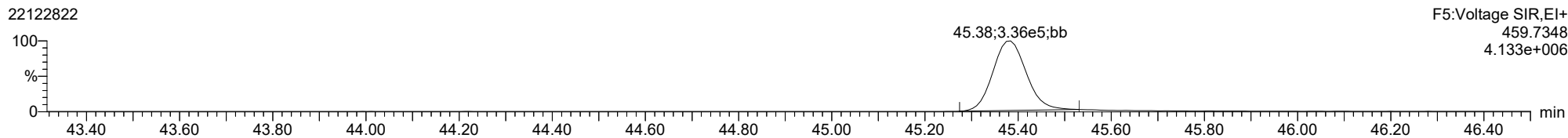


ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

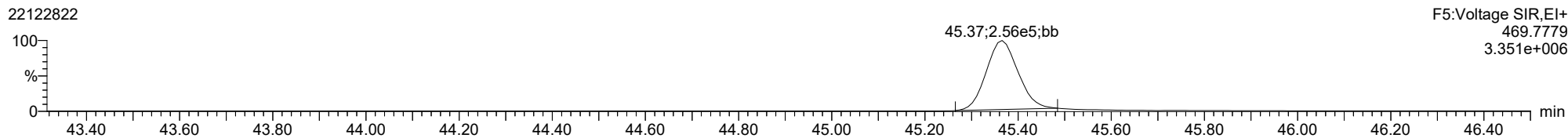
**OCDD**



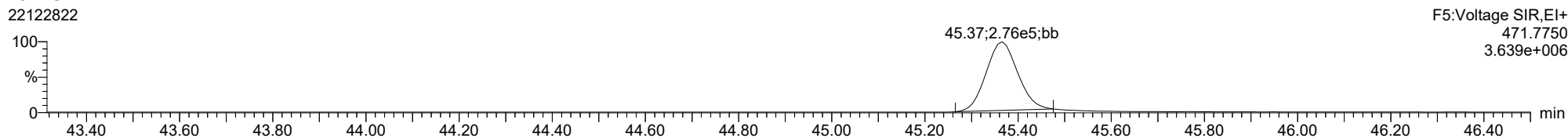
**OCDD**



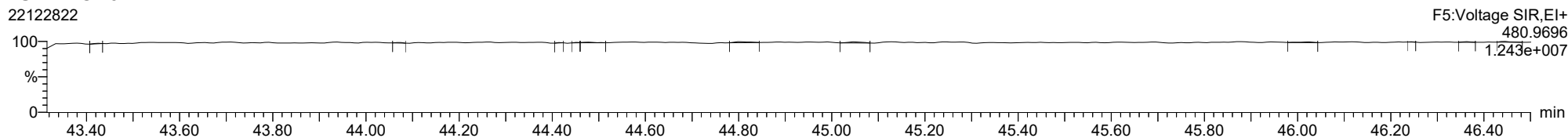
**13C-OCDD**



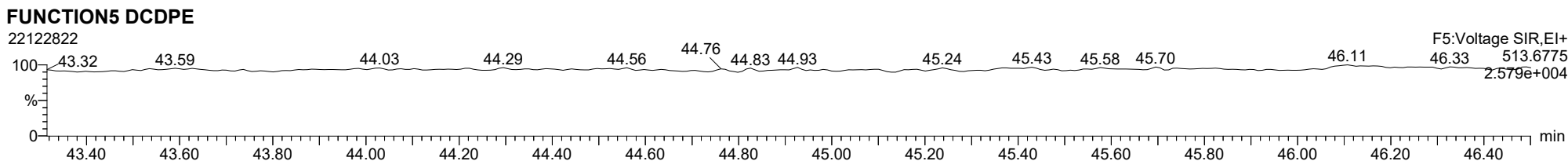
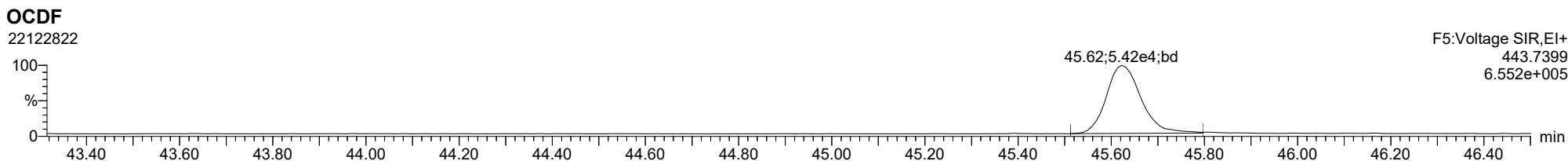
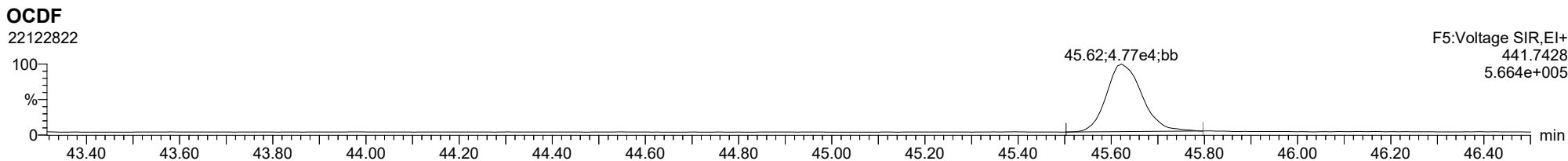
**13C-OCDD**



**FUNCTION5 PFK**



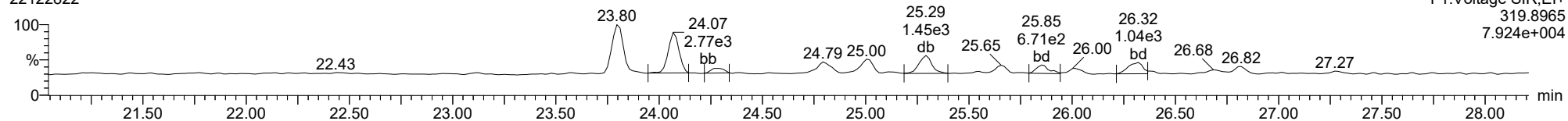
ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk



ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

**Total-tetradoxins**

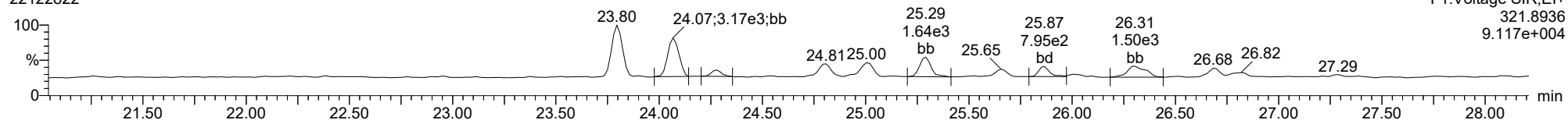
22122822



F1:Voltage SIR,EI+  
319.8965  
7.924e+004

**Total-tetradoxins**

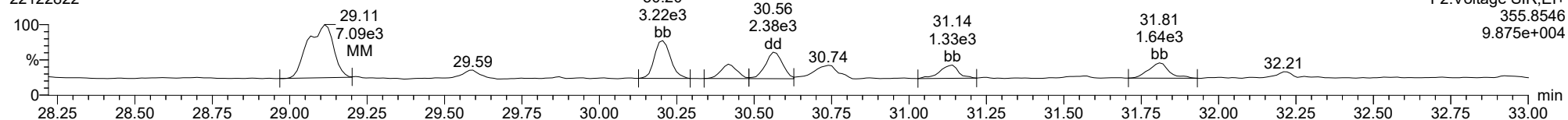
22122822



F1:Voltage SIR,EI+  
321.8936  
9.117e+004

**Total-pentadoxins**

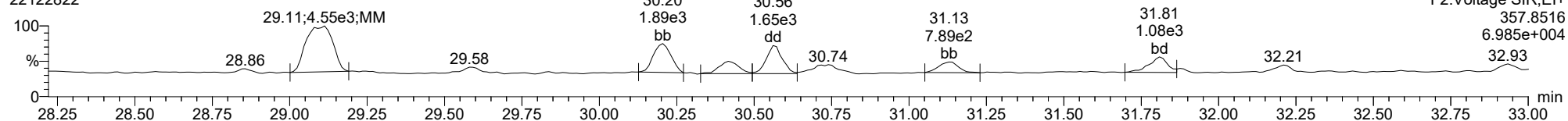
22122822



F2:Voltage SIR,EI+  
355.8546  
9.875e+004

**Total-pentadoxins**

22122822

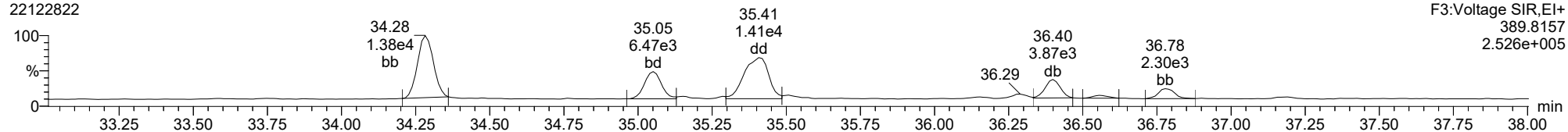


F2:Voltage SIR,EI+  
357.8516  
6.985e+004

ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

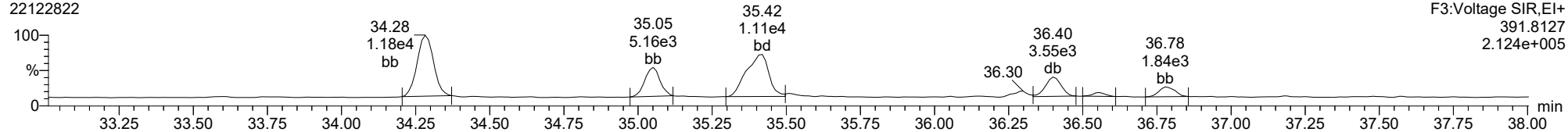
**Total-hexadioxins**

22122822



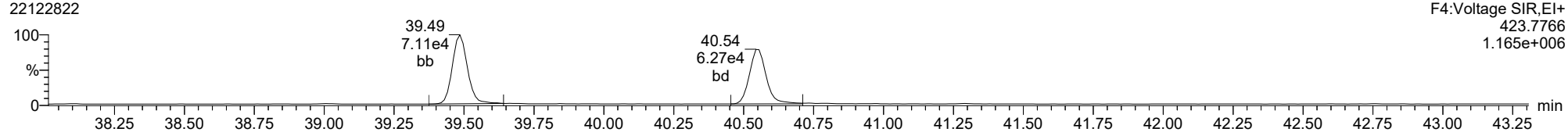
**Total-hexadioxins**

22122822



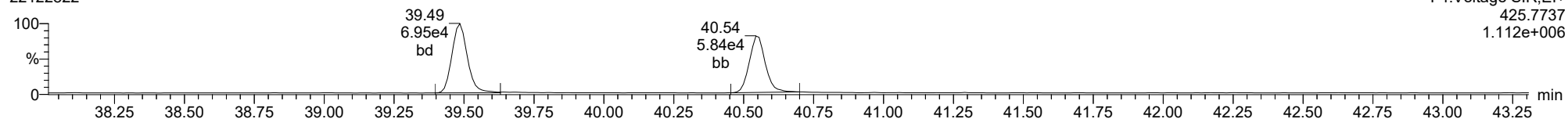
**Total-heptadioxins**

22122822



**Total-heptadioxins**

22122822

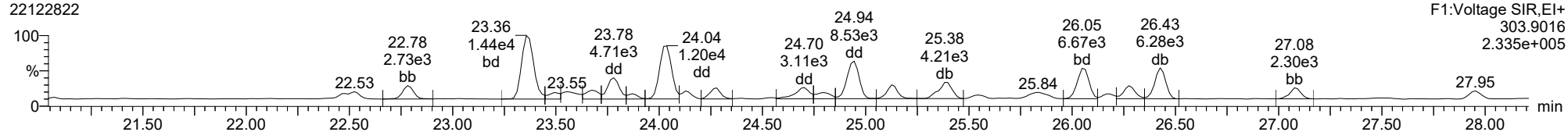




ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

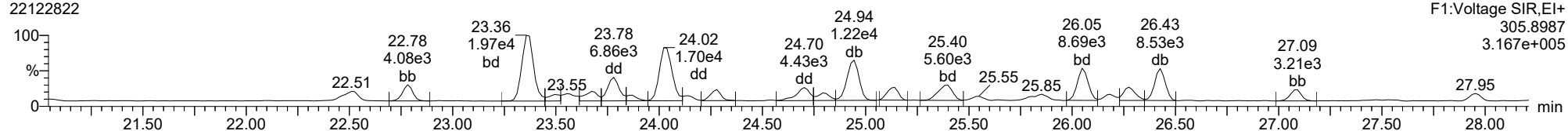
**Total-tetrafurans**

22122822



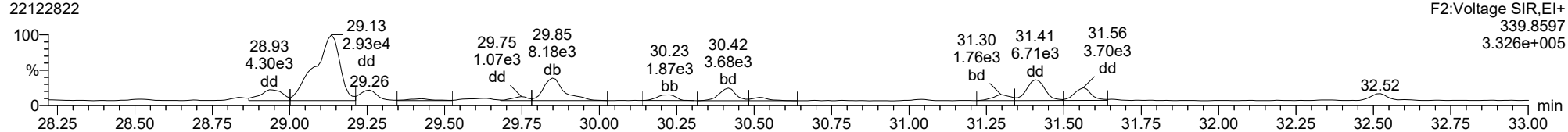
**Total-tetrafurans**

22122822



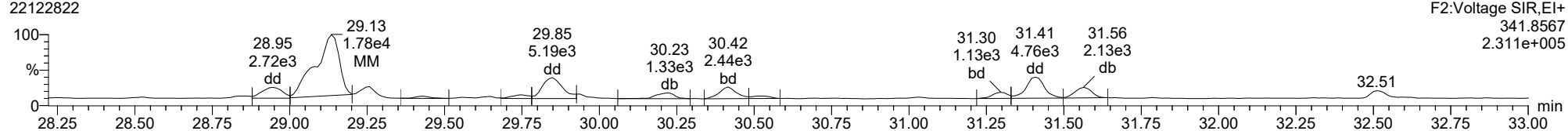
**Total-pentafurans**

22122822



**Total-pentafurans**

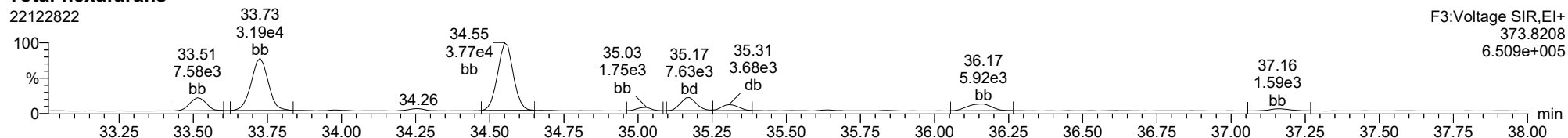
22122822



ID: 22L0246-10, Name: 22122822, Date: 29-Dec-2022, Time: 04:11:07, Conditions: AUTOSPEC01, User: pk

**Total-hexafurans**

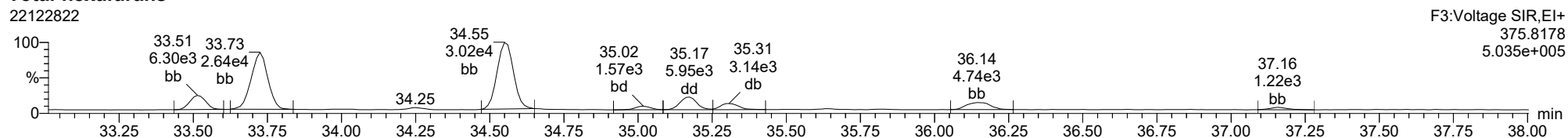
22122822



F3:Voltage SIR,EI+  
373.8208  
6.509e+005

**Total-hexafurans**

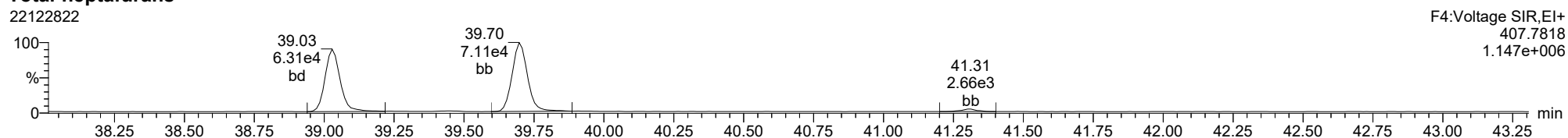
22122822



F3:Voltage SIR,EI+  
375.8178  
5.035e+005

**Total-heptafurans**

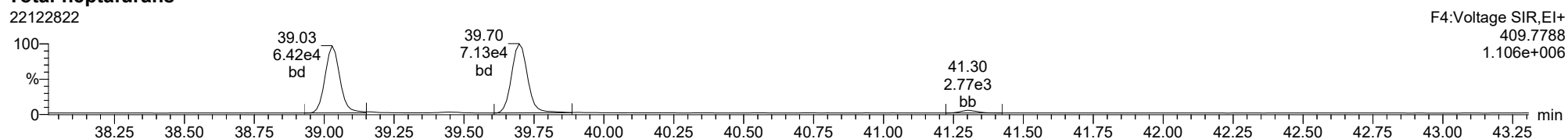
22122822



F4:Voltage SIR,EI+  
407.7818  
1.147e+006

**Total-heptafurans**

22122822



F4:Voltage SIR,EI+  
409.7788  
1.106e+006



Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-11 A File ID: 22122823  
 Sampled: 12/09/22 08:40 Prepared: 12/19/22 15:18 Analyzed: 12/29/22 05:00  
 % Solids: 59.35 Preparation: EPA 1613 Initial/Final: 16.85 g Wet / 20 uL  
 Result Basis: Dry Sequence: SKL0339 Calibration: FC00062  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.678	0.655-0.886	0.139	1.00	2.73	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.542	0.655-0.886	0.074	1.00	0.258	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.418	1.318-1.783	0.203	1.00	0.611	ng/kg	J
57117-31-4	2,3,4,7,8-PeCDF	1	1.632	1.318-1.783	0.194	1.00	0.819	ng/kg	J
40321-76-4	1,2,3,7,8-PeCDD	1	1.603	1.318-1.783	0.146	1.00	0.797	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.154	1.054-1.426	0.098	1.00	1.84	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.202	1.054-1.426	0.100	1.00	1.22	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.414	1.054-1.426	0.097	1.00	1.59	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.871	1.054-1.426	0.116	1.00	0.437	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.387	1.054-1.426	0.144	1.00	0.727	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.586	1.054-1.426	0.138	1.00	1.53	ng/kg	EMPC
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.258	1.054-1.426	0.152	1.00	1.42	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.988	0.893-1.208	0.110	1.00	8.20	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.008	0.893-1.208	0.154	1.00	0.887	ng/kg	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.057	0.893-1.208	0.178	2.50	21.8	ng/kg	B
39001-02-0	OCDF	1	0.978	0.757-1.024	0.165	2.50	12.3	ng/kg	B
3268-87-9	OCDD	1	0.868	0.757-1.024	0.483	10.0	132	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	27.6	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	36.2	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	33.8	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	22.5	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	22.7	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	62.5	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	23.4	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	41.5	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 2.82  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 2.82



Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:55:48 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

**ID:** 22L0246-11, **Name:** 22122823, **Date:** 29-Dec-2022, **Time:** 05:00:37, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.063	1.001	4.992e3	7.360e3	0.985	0.678	0.770	1209	2028	7.87e4	1.14e5	65.1	56.3	NO	bd	bd	1.367
12378-PeCDF	30.216	1.000	1.217e3	8.583e2	0.906	1.418	1.550	1892	1709	1.74e4	1.03e4	9.2	6.0	NO	bb	bd	0.305
23478-PeCDF	31.564	1.000	1.815e3	1.112e3	1.008	1.632	1.550	1892	1709	3.15e4	1.83e4	16.7	10.7	NO	db	db	0.410
123478-HxCDF	35.174	1.000	3.027e3	2.624e3	1.045	1.154	1.240	697	922	4.29e4	3.80e4	61.6	41.2	NO	dd	dd	0.920
234678-HxCDF	36.165	1.000	2.874e3	2.032e3	1.101	1.414	1.240	697	922	3.60e4	2.16e4	51.7	23.4	NO	bb	MM	0.793
123678-HxCDF	35.319	1.001	2.028e3	1.686e3	1.019	1.202	1.240	697	922	3.16e4	2.47e4	45.4	26.8	NO	db	db	0.608
123789-HxCDF	37.157	0.999	5.187e2	5.958e2	0.992	0.871	1.240	697	922	6.98e3	8.65e3	10.0	9.4	YES	bb	bb	0.219
1234678-HpCDF	39.040	1.000	1.094e4	1.107e4	1.243	0.988	1.050	794	849	1.89e5	1.91e5	237.9	225.1	NO	bb	bb	4.100
1234789-HpCDF	41.324	1.001	9.737e2	9.658e2	1.192	1.008	1.050	794	849	1.44e4	1.51e4	18.1	17.8	NO	bb	bb	0.444
OCDF	45.632	1.006	1.161e4	1.188e4	1.303	0.978	0.890	686	626	1.36e5	1.45e5	198.0	231.4	NO	bd	bb	6.143
2378-TCDD	26.698	1.001	3.609e2	6.660e2	1.168	0.542	0.770	885	629	6.52e3	1.00e4	7.4	16.0	YES	bd	bd	0.129
12378-PeCDD	31.820	1.001	1.229e3	7.668e2	1.152	1.603	1.550	959	949	1.58e4	1.06e4	16.5	11.1	NO	MM	MM	0.399
123478-HxCDD	36.288	1.000	1.013e3	7.306e2	0.934	1.387	1.240	1004	918	1.80e4	1.36e4	18.0	14.8	NO	dd	MM	0.363
123678-HxCDD	36.399	1.000	2.320e3	1.463e3	0.950	1.586	1.240	1004	918	3.73e4	2.41e4	37.2	26.3	YES	db	MM	0.766
123789-HxCDD	36.789	1.011	1.781e3	1.415e3	0.873	1.258	1.240	1004	918	2.98e4	2.37e4	29.7	25.8	NO	bd	bb	0.709
1234678-HpCDD	40.555	1.000	2.487e4	2.353e4	1.268	1.057	1.050	1004	1031	3.76e5	3.53e5	374.2	342.1	NO	bb	bb	10.909
OCDD	45.394	1.000	9.831e4	1.132e5	1.089	0.868	0.890	1350	1866	1.18e6	1.36e6	877.3	728.7	NO	bb	bb	66.174
13C-2378-TCDF	26.033	1.007	3.981e5	5.197e5	1.751	0.766	0.770	2766	1414	6.14e6	8.03e6	2220.9	5679.0	NO	bb	bb	75.997
13C-12378-PeCDF	30.205	1.168	4.562e5	2.943e5	1.442	1.550	1.550	2255	1480	7.14e6	4.56e6	3163.7	3083.4	NO	bb	bb	75.487
13C-23478-PeCDF	31.553	1.221	4.303e5	2.789e5	1.366	1.543	1.550	2255	1480	6.72e6	4.36e6	2980.6	2948.5	NO	bb	bb	75.306
13C-123478-HxCDF	35.163	0.956	1.965e5	3.914e5	1.095	0.502	0.510	1350	1907	3.16e6	6.29e6	2339.2	3298.0	NO	bd	bd	83.200
13C-123678-HxCDF	35.296	0.960	1.988e5	4.004e5	1.168	0.496	0.510	1350	1907	3.15e6	6.32e6	2336.9	3312.8	NO	db	db	79.518
13C-234678-HxCDF	36.165	0.983	1.875e5	3.742e5	1.023	0.501	0.510	1350	1907	3.05e6	6.01e6	2256.2	3153.4	NO	bb	bb	85.105
13C-123789-HxCDF	37.179	1.011	1.721e5	3.417e5	0.879	0.504	0.510	1350	1907	2.82e6	5.65e6	2087.5	2959.8	NO	bb	bb	90.605
13C-1234678-HpCDF	39.029	1.061	1.333e5	2.985e5	0.925	0.447	0.440	1250	2078	2.23e6	4.91e6	1785.4	2365.2	NO	bb	bb	72.297
13C-1234789-HpCDF	41.301	1.123	1.121e5	2.546e5	0.715	0.440	0.440	1250	2078	1.64e6	3.68e6	1313.3	1769.8	NO	bb	bb	79.479
13C-1234-TCDD	25.851	0.000	2.994e5	3.902e5	1.000	0.767	0.770	1656	970	4.82e6	6.27e6	2913.2	6468.2	NO	bb	bb	100.000
13C-2378-TCDD	26.668	1.032	2.960e5	3.848e5	1.081	0.769	0.770	1656	970	4.58e6	6.01e6	2766.9	6192.1	NO	bb	bb	91.294
13C-12378-PeCDD	31.798	1.230	2.714e5	1.632e5	0.776	1.663	1.550	915	1060	4.24e6	2.52e6	4639.3	2377.1	NO	bb	bb	81.171
13C-123478-HxCDD	36.277	0.986	2.884e5	2.252e5	0.975	1.280	1.240	928	1215	4.80e6	3.76e6	5167.8	3093.9	NO	bd	bd	81.638
13C-123678-HxCDD	36.388	0.989	2.882e5	2.313e5	1.067	1.246	1.240	928	1215	4.89e6	3.92e6	5265.8	3225.6	NO	db	db	75.482
13C-1234678-HpCDD	40.544	1.102	1.787e5	1.711e5	0.582	1.044	1.050	1074	1143	2.76e6	2.58e6	2572.9	2260.6	NO	bb	bb	93.203
13C-OCDD	45.375	1.234	2.835e5	3.035e5	0.509	0.934	0.890	1349	1175	3.55e6	3.77e6	2628.6	3206.5	NO	bb	bb	178.846
13C-123789-HxCDD	36.778	0.000	3.585e5	2.868e5	1.000	1.250	1.240	928	1215	5.75e6	4.61e6	6191.9	3792.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.698	1.033	2.976e5		1.120			814		4.53e6		5561.2			bb		38.536

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:55:48 Pacific Standard Time

ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.525	0.865	2.438e3	3.337e3	1.300	0.730	0.770	1209	2028	2.28e4	3.41e4	18.9	16.8	NO	bb	bb	0.484
1289-TCDF					0.931		0.770	1209	2028								
13468-PECDF					1.308		1.550	929	891								
12389-PECDF					0.860		1.550	1892	1709								
123468-HXCDF	33.525	0.953	2.709e3	2.471e3	1.156	1.097	1.240	697	922	4.95e4	4.02e4	71.0	43.6	NO	bb	bb	0.762
1368-TCDD	23.810	0.893	3.217e4	3.985e4	1.151	0.807	0.770	885	629	5.24e5	6.41e5	592.8	1019.8	NO	bb	bb	9.192
1289-TCDD					0.950		0.770	885	629								
12479-PECDD	29.113	0.916	1.226e4	4.836e3	2.164	2.536	1.550	959	949	1.20e5	7.92e4	124.8	83.5	YES	bb	db	1.818
12389-PECDD	32.221	1.013	5.868e2	2.924e2	1.371	2.007	1.550	959	949	7.53e3	4.57e3	7.9	4.8	YES	bb	bb	0.148
124679-HXCDD	34.293	0.945	6.474e3	5.606e3	1.153	1.155	1.240	1004	918	1.08e5	8.97e4	107.4	97.7	NO	bb	bb	2.041
1234679-HPCDD	39.486	0.974	2.578e4	2.495e4	1.473	1.033	1.050	1004	1031	4.09e5	3.75e5	407.4	363.5	NO	bb	bd	9.842
Total-tetrafurans			5.739e4		1.072			1209		8.04e5							13.818
Total-penta1			3.933e4					929		5.75e5							9.469
Total-pentafurans			3.078e4		0.924			1892		3.99e5							7.419
Total-hexafurans			3.782e4		1.063			697		5.95e5							11.340
Total-heptafurans			2.912e4		1.218			794		4.69e5							11.699
Total-Furans			2.075e5		1.090			1209		3.00e6							60.202
Total-tetradoxins			6.126e4		1.090			885		9.63e5							18.083
Total-pentadoxins			4.533e4		1.562			959		7.32e5							11.266
Total-hexadoxins			8.885e4		0.978			1004		1.38e6							31.247
Total-heptadoxins			5.065e4		1.371			1004		7.85e5							20.751
Total-Dioxins			3.444e5		1.207			885		5.05e6							147.521
Total-TEQ			5.518e5					885		8.05e6							207.723
FUNCTION1 PFK			7.617e6					289176		1.23e7							
FUNCTION2 PFK			1.993e5					152791		1.86e6							0.000
FUNCTION3 PFK			0.000e0					201422		0.00e0							
FUNCTION4 PFK			5.014e4					139817		1.00e6							
FUNCTION5 PFK			3.618e4					124896		1.58e6							
FUNCTION1 HXCD...			1.676e4					613		2.77e5							0.000
FUNCTION1 HPCD...			1.666e2					525		2.39e3							0.000
FUNCTION2 HPCD...			2.215e3					635		3.91e4							0.000
FUNCTION3 OCDPE			1.570e2					659		2.16e3							0.000
FUNCTION4 NCDPE			3.697e3					805		5.57e4							0.000
FUNCTION5 DCDPE			0.000e0					532		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:48 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.94	5.556e3	8.109e3	1.072	0.69	0.77	68.3	YES	NO	dd	dd	1.389
2	Total-tetrafurans	24.28	1.558e3	2.009e3	1.072	0.78	0.77	17.2	YES	NO	db	db	0.363
3	Total-tetrafurans	24.05	9.244e3	1.169e4	1.072	0.79	0.77	111.9	YES	NO	dd	dd	2.128
4	Total-tetrafurans	23.87	1.261e3	1.617e3	1.072	0.78	0.77	15.1	YES	NO	dd	dd	0.292
5	Total-tetrafurans	23.57	3.598e3	4.860e3	1.072	0.74	0.77	28.6	YES	NO	dd	dd	0.860
6	Total-tetrafurans	23.37	9.062e3	1.183e4	1.072	0.77	0.77	111.9	YES	NO	bd	bd	2.123
7	Total-tetrafurans	22.78	2.022e3	2.902e3	1.072	0.70	0.77	27.1	YES	NO	bb	bb	0.500
8	1368-TCDF	22.53	2.438e3	3.337e3	1.300	0.73	0.77	18.9	YES	NO	bb	bb	0.484
9	Total-tetrafurans	27.09	1.751e3	2.523e3	1.072	0.69	0.77	21.8	YES	NO	bb	bb	0.434
10	Total-tetrafurans	26.44	5.994e3	8.696e3	1.072	0.69	0.77	76.2	YES	NO	db	dd	1.493
11	Total-tetrafurans	26.27	1.984e3	2.749e3	1.072	0.72	0.77	20.9	YES	NO	dd	dd	0.481
12	Total-tetrafurans	26.18	9.810e2	1.291e3	1.072	0.76	0.77	13.2	YES	NO	dd	dd	0.231
13	2378-TCDF	26.06	4.992e3	7.360e3	0.985	0.68	0.77	65.1	YES	NO	bd	bd	1.367
14	Total-tetrafurans	25.82	1.711e3	2.504e3	1.072	0.68	0.77	14.4	YES	NO	db	db	0.428
15	Total-tetrafurans	25.53	9.444e2	1.289e3	1.072	0.73	0.77	10.6	YES	NO	dd	dd	0.227
16	Total-tetrafurans	25.40	4.294e3	5.734e3	1.072	0.75	0.77	44.0	YES	NO	dd	dd	1.019

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.48	3.933e4	2.584e4		1.52	1.55	618.8	YES	NO	bb	bb	9.469

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.26	2.642e3	1.658e3	0.924	1.59	1.55	21.9	YES	NO	db	db	0.637
2	Total-pentafurans	29.14	1.657e4	1.028e4	0.924	1.61	1.55	96.8	YES	NO	MM	MM	3.980
3	Total-pentafurans	28.97	2.302e3	1.567e3	0.924	1.47	1.55	15.6	YES	NO	dd	dd	0.573
4	23478-PeCDF	31.56	1.815e3	1.112e3	1.008	1.63	1.55	16.7	YES	NO	db	db	0.410
5	Total-pentafurans	31.41	4.019e3	2.574e3	0.924	1.56	1.55	32.0	YES	NO	dd	dd	0.977
6	Total-pentafurans	30.42	2.209e3	1.405e3	0.924	1.57	1.55	19.0	YES	NO	bd	dd	0.536
7	12378-PeCDF	30.22	1.217e3	8.583e2	0.906	1.42	1.55	9.2	YES	NO	bb	bd	0.305

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:55:48 Pacific Standard Time

**ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk****HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HxCDF	33.52	2.709e3	2.471e3	1.156	1.10	1.24	71.0	YES	NO	bb	bb	0.762
2	234678-HxCDF	36.17	2.874e3	2.032e3	1.101	1.41	1.24	51.7	YES	NO	bb	MM	0.793
3	123678-HxCDF	35.32	2.028e3	1.686e3	1.019	1.20	1.24	45.4	YES	NO	db	db	0.608
4	123478-HxCDF	35.17	3.027e3	2.624e3	1.045	1.15	1.24	61.6	YES	NO	dd	dd	0.920
5	Total-hexafurans	34.56	1.393e4	1.110e4	1.063	1.26	1.24	341.6	YES	NO	bb	bb	4.164
6	Total-hexafurans	33.74	1.325e4	1.136e4	1.063	1.17	1.24	281.8	YES	NO	bb	bb	4.093

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.32	9.737e2	9.658e2	1.192	1.01	1.05	18.1	YES	NO	bb	bb	0.444
2	Total-heptafurans	39.71	1.721e4	1.757e4	1.218	0.98	1.05	334.7	YES	NO	bb	bb	7.155
3	1234678-HpCDF	39.04	1.094e4	1.107e4	1.243	0.99	1.05	237.9	YES	NO	bb	bb	4.100



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.94	5.556e3	8.109e3	1.072	0.69	0.77	68.3	YES	NO	dd	dd	1.389
2	Total-tetrafurans	24.28	1.558e3	2.009e3	1.072	0.78	0.77	17.2	YES	NO	db	db	0.363
3	Total-tetrafurans	24.05	9.244e3	1.169e4	1.072	0.79	0.77	111.9	YES	NO	dd	dd	2.128
4	Total-tetrafurans	23.87	1.261e3	1.617e3	1.072	0.78	0.77	15.1	YES	NO	dd	dd	0.292
5	Total-tetrafurans	23.57	3.598e3	4.860e3	1.072	0.74	0.77	28.6	YES	NO	dd	dd	0.860
6	Total-tetrafurans	23.37	9.062e3	1.183e4	1.072	0.77	0.77	111.9	YES	NO	bd	bd	2.123
7	Total-tetrafurans	22.78	2.022e3	2.902e3	1.072	0.70	0.77	27.1	YES	NO	bb	bb	0.500
8	1368-TCDF	22.53	2.438e3	3.337e3	1.300	0.73	0.77	18.9	YES	NO	bb	bb	0.484
9	Total-Furans	27.95	1.404e3	1.735e3	1.090	0.81	0.77	16.7	YES	NO	bb	bb	0.314
10	Total-tetrafurans	27.09	1.751e3	2.523e3	1.072	0.69	0.77	21.8	YES	NO	bb	bb	0.434
11	Total-tetrafurans	26.44	5.994e3	8.696e3	1.072	0.69	0.77	76.2	YES	NO	db	dd	1.493
12	Total-tetrafurans	26.27	1.984e3	2.749e3	1.072	0.72	0.77	20.9	YES	NO	dd	dd	0.481
13	Total-tetrafurans	26.18	9.810e2	1.291e3	1.072	0.76	0.77	13.2	YES	NO	dd	dd	0.231
14	2378-TCDF	26.06	4.992e3	7.360e3	0.985	0.68	0.77	65.1	YES	NO	bd	bd	1.367
15	Total-tetrafurans	25.82	1.711e3	2.504e3	1.072	0.68	0.77	14.4	YES	NO	db	db	0.428
16	Total-tetrafurans	25.53	9.444e2	1.289e3	1.072	0.73	0.77	10.6	YES	NO	dd	dd	0.227
17	Total-tetrafurans	25.40	4.294e3	5.734e3	1.072	0.75	0.77	44.0	YES	NO	dd	dd	1.019
18	Total-pentafurans	29.26	2.642e3	1.658e3	0.924	1.59	1.55	21.9	YES	NO	db	db	0.637
19	Total-pentafurans	29.14	1.657e4	1.028e4	0.924	1.61	1.55	96.8	YES	NO	MM	MM	3.980
20	Total-pentafurans	28.97	2.302e3	1.567e3	0.924	1.47	1.55	15.6	YES	NO	dd	dd	0.573
21	23478-PeCDF	31.56	1.815e3	1.112e3	1.008	1.63	1.55	16.7	YES	NO	db	db	0.410
22	Total-pentafurans	31.41	4.019e3	2.574e3	0.924	1.56	1.55	32.0	YES	NO	dd	dd	0.977
23	Total-pentafurans	30.42	2.209e3	1.405e3	0.924	1.57	1.55	19.0	YES	NO	bd	dd	0.536
24	12378-PeCDF	30.22	1.217e3	8.583e2	0.906	1.42	1.55	9.2	YES	NO	bb	bd	0.305
25	123468-HxCDF	33.52	2.709e3	2.471e3	1.156	1.10	1.24	71.0	YES	NO	bb	bb	0.762
26	234678-HxCDF	36.17	2.874e3	2.032e3	1.101	1.41	1.24	51.7	YES	NO	bb	MM	0.793
27	123678-HxCDF	35.32	2.028e3	1.686e3	1.019	1.20	1.24	45.4	YES	NO	db	db	0.608
28	123478-HxCDF	35.17	3.027e3	2.624e3	1.045	1.15	1.24	61.6	YES	NO	dd	dd	0.920
29	Total-hexafurans	34.56	1.393e4	1.110e4	1.063	1.26	1.24	341.6	YES	NO	bb	bb	4.164
30	Total-hexafurans	33.74	1.325e4	1.136e4	1.063	1.17	1.24	281.8	YES	NO	bb	bb	4.093
31	1234789-HpCDF	41.32	9.737e2	9.658e2	1.192	1.01	1.05	18.1	YES	NO	bb	bb	0.444
32	Total-heptafurans	39.71	1.721e4	1.757e4	1.218	0.98	1.05	334.7	YES	NO	bb	bb	7.155
33	1234678-HpCDF	39.04	1.094e4	1.107e4	1.243	0.99	1.05	237.9	YES	NO	bb	bb	4.100
34	OCDF	45.63	1.161e4	1.188e4	1.303	0.98	0.89	198.0	YES	NO	bd	bb	6.143
35	Total-penta1	27.48	3.933e4	2.584e4		1.52	1.55	618.8	YES	NO	bb	bb	9.469

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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

## TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.81	3.217e4	3.985e4	1.151	0.81	0.77	592.8	YES	NO	bb	bb	9.192
2	Total-tetradoxins	26.31	2.067e3	2.621e3	1.090	0.79	0.77	25.7	YES	NO	bb	bb	0.632
3	Total-tetradoxins	25.88	3.553e3	4.460e3	1.090	0.80	0.77	57.1	YES	NO	bd	bd	1.080
4	Total-tetradoxins	25.67	5.884e2	8.731e2	1.090	0.67	0.77	7.9	YES	NO	db	bb	0.197
5	Total-tetradoxins	25.29	2.435e3	3.171e3	1.090	0.77	0.77	39.4	YES	NO	bb	bb	0.756
6	Total-tetradoxins	25.02	1.456e3	1.676e3	1.090	0.87	0.77	22.3	YES	NO	db	bb	0.422
7	Total-tetradoxins	24.08	1.900e4	2.405e4	1.090	0.79	0.77	343.2	YES	NO	bb	bb	5.804

## PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadoxins	30.22	1.522e4	9.942e3	1.562	1.53	1.55	258.5	YES	NO	bb	bb	3.707
2	Total-pentadoxins	29.59	6.515e2	3.838e2	1.562	1.70	1.55	13.5	YES	NO	bb	bb	0.152
3	12378-PeCDD	31.82	1.229e3	7.668e2	1.152	1.60	1.55	16.5	YES	NO	MM	MM	0.399
4	Total-pentadoxins	31.14	9.881e3	6.599e3	1.562	1.50	1.55	154.4	YES	NO	bb	bb	2.428
5	Total-pentadoxins	30.57	1.746e4	1.218e4	1.562	1.43	1.55	303.7	YES	NO	bb	dd	4.365
6	Total-pentadoxins	30.43	8.812e2	5.781e2	1.562	1.52	1.55	16.9	YES	NO	bb	bd	0.215

## HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDD	36.29	1.013e3	7.306e2	0.934	1.39	1.24	18.0	YES	NO	dd	MM	0.363
2	Total-hexadoxins	35.42	8.978e3	6.361e3	0.978	1.41	1.24	96.9	YES	NO	bd	db	3.038
3	Total-hexadoxins	35.05	7.060e4	5.613e4	0.978	1.26	1.24	1127.8	YES	NO	bb	bb	25.097
4	124679-HxCDD	34.29	6.474e3	5.606e3	1.153	1.15	1.24	107.4	YES	NO	bb	bb	2.041
5	123789-HxCDD	36.79	1.781e3	1.415e3	0.873	1.26	1.24	29.7	YES	NO	bd	bb	0.709

## HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.56	2.487e4	2.353e4	1.268	1.06	1.05	374.2	YES	NO	bb	bb	10.909
2	1234679-HPCDD	39.49	2.578e4	2.495e4	1.473	1.03	1.05	407.4	YES	NO	bb	bd	9.842

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.81	3.217e4	3.985e4	1.151	0.81	0.77	592.8	YES	NO	bb	bb	9.192
2	Total-tetradoxins	26.31	2.067e3	2.621e3	1.090	0.79	0.77	25.7	YES	NO	bb	bb	0.632
3	Total-tetradoxins	25.88	3.553e3	4.460e3	1.090	0.80	0.77	57.1	YES	NO	bd	bd	1.080
4	Total-tetradoxins	25.67	5.884e2	8.731e2	1.090	0.67	0.77	7.9	YES	NO	db	bb	0.197
5	Total-tetradoxins	25.29	2.435e3	3.171e3	1.090	0.77	0.77	39.4	YES	NO	bb	bb	0.756
6	Total-tetradoxins	25.02	1.456e3	1.676e3	1.090	0.87	0.77	22.3	YES	NO	db	bb	0.422
7	Total-tetradoxins	24.08	1.900e4	2.405e4	1.090	0.79	0.77	343.2	YES	NO	bb	bb	5.804
8	Total-pentadoxins	30.22	1.522e4	9.942e3	1.562	1.53	1.55	258.5	YES	NO	bb	bb	3.707
9	Total-pentadoxins	29.59	6.515e2	3.838e2	1.562	1.70	1.55	13.5	YES	NO	bb	bb	0.152
10	12378-PeCDD	31.82	1.229e3	7.668e2	1.152	1.60	1.55	16.5	YES	NO	MM	MM	0.399
11	Total-pentadoxins	31.14	9.881e3	6.599e3	1.562	1.50	1.55	154.4	YES	NO	bb	bb	2.428
12	Total-pentadoxins	30.57	1.746e4	1.218e4	1.562	1.43	1.55	303.7	YES	NO	bb	dd	4.365
13	Total-pentadoxins	30.43	8.812e2	5.781e2	1.562	1.52	1.55	16.9	YES	NO	bb	bd	0.215
14	123478-HxCDD	36.29	1.013e3	7.306e2	0.934	1.39	1.24	18.0	YES	NO	dd	MM	0.363
15	Total-hexadoxins	35.42	8.978e3	6.361e3	0.978	1.41	1.24	96.9	YES	NO	bd	db	3.038
16	Total-hexadoxins	35.05	7.060e4	5.613e4	0.978	1.26	1.24	1127.8	YES	NO	bb	bb	25.097
17	124679-HxCDD	34.29	6.474e3	5.606e3	1.153	1.15	1.24	107.4	YES	NO	bb	bb	2.041
18	123789-HxCDD	36.79	1.781e3	1.415e3	0.873	1.26	1.24	29.7	YES	NO	bd	bb	0.709
19	OCDD	45.39	9.831e4	1.132e5	1.089	0.87	0.89	877.3	YES	NO	bb	bb	66.174
20	1234678-HpCDD	40.56	2.487e4	2.353e4	1.268	1.06	1.05	374.2	YES	NO	bb	bb	10.909
21	1234679-HPCDD	39.49	2.578e4	2.495e4	1.473	1.03	1.05	407.4	YES	NO	bb	bd	9.842

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Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.94	5.556e3	8.109e3	1.072	0.69	0.77	68.3	YES	NO	dd	dd	1.389
2	Total-tetrafurans	24.28	1.558e3	2.009e3	1.072	0.78	0.77	17.2	YES	NO	db	db	0.363
3	Total-tetrafurans	24.05	9.244e3	1.169e4	1.072	0.79	0.77	111.9	YES	NO	dd	dd	2.128
4	Total-tetrafurans	23.87	1.261e3	1.617e3	1.072	0.78	0.77	15.1	YES	NO	dd	dd	0.292
5	Total-tetrafurans	23.57	3.598e3	4.860e3	1.072	0.74	0.77	28.6	YES	NO	dd	dd	0.860
6	Total-tetrafurans	23.37	9.062e3	1.183e4	1.072	0.77	0.77	111.9	YES	NO	bd	bd	2.123
7	Total-tetrafurans	22.78	2.022e3	2.902e3	1.072	0.70	0.77	27.1	YES	NO	bb	bb	0.500
8	1368-TCDF	22.53	2.438e3	3.337e3	1.300	0.73	0.77	18.9	YES	NO	bb	bb	0.484
9	Total-Furans	27.95	1.404e3	1.735e3	1.090	0.81	0.77	16.7	YES	NO	bb	bb	0.314
10	Total-tetrafurans	27.09	1.751e3	2.523e3	1.072	0.69	0.77	21.8	YES	NO	bb	bb	0.434
11	Total-tetrafurans	26.44	5.994e3	8.696e3	1.072	0.69	0.77	76.2	YES	NO	db	dd	1.493
12	Total-tetrafurans	26.27	1.984e3	2.749e3	1.072	0.72	0.77	20.9	YES	NO	dd	dd	0.481
13	Total-tetrafurans	26.18	9.810e2	1.291e3	1.072	0.76	0.77	13.2	YES	NO	dd	dd	0.231
14	2378-TCDF	26.06	4.992e3	7.360e3	0.985	0.68	0.77	65.1	YES	NO	bd	bd	1.367
15	Total-tetrafurans	25.82	1.711e3	2.504e3	1.072	0.68	0.77	14.4	YES	NO	db	db	0.428
16	Total-tetrafurans	25.53	9.444e2	1.289e3	1.072	0.73	0.77	10.6	YES	NO	dd	dd	0.227
17	Total-tetrafurans	25.40	4.294e3	5.734e3	1.072	0.75	0.77	44.0	YES	NO	dd	dd	1.019
18	Total-pentafurans	29.26	2.642e3	1.658e3	0.924	1.59	1.55	21.9	YES	NO	db	db	0.637
19	Total-pentafurans	29.14	1.657e4	1.028e4	0.924	1.61	1.55	96.8	YES	NO	MM	MM	3.980
20	Total-pentafurans	28.97	2.302e3	1.567e3	0.924	1.47	1.55	15.6	YES	NO	dd	dd	0.573
21	23478-PeCDF	31.56	1.815e3	1.112e3	1.008	1.63	1.55	16.7	YES	NO	db	db	0.410
22	Total-pentafurans	31.41	4.019e3	2.574e3	0.924	1.56	1.55	32.0	YES	NO	dd	dd	0.977
23	Total-pentafurans	30.42	2.209e3	1.405e3	0.924	1.57	1.55	19.0	YES	NO	bd	dd	0.536
24	12378-PeCDF	30.22	1.217e3	8.583e2	0.906	1.42	1.55	9.2	YES	NO	bb	bd	0.305
25	123468-HxCDF	33.52	2.709e3	2.471e3	1.156	1.10	1.24	71.0	YES	NO	bb	bb	0.762
26	234678-HxCDF	36.17	2.874e3	2.032e3	1.101	1.41	1.24	51.7	YES	NO	bb	MM	0.793
27	123678-HxCDF	35.32	2.028e3	1.686e3	1.019	1.20	1.24	45.4	YES	NO	db	db	0.608
28	123478-HxCDF	35.17	3.027e3	2.624e3	1.045	1.15	1.24	61.6	YES	NO	dd	dd	0.920
29	Total-hexafurans	34.56	1.393e4	1.110e4	1.063	1.26	1.24	341.6	YES	NO	bb	bb	4.164
30	Total-hexafurans	33.74	1.325e4	1.136e4	1.063	1.17	1.24	281.8	YES	NO	bb	bb	4.093
31	1234789-HpCDF	41.32	9.737e2	9.658e2	1.192	1.01	1.05	18.1	YES	NO	bb	bb	0.444
32	Total-heptafurans	39.71	1.721e4	1.757e4	1.218	0.98	1.05	334.7	YES	NO	bb	bb	7.155
33	1234678-HpCDF	39.04	1.094e4	1.107e4	1.243	0.99	1.05	237.9	YES	NO	bb	bb	4.100
34	OCDF	45.63	1.161e4	1.188e4	1.303	0.98	0.89	198.0	YES	NO	bd	bb	6.143
35	Total-penta1	27.48	3.933e4	2.584e4		1.52	1.55	618.8	YES	NO	bb	bb	9.469
36	1368-TCDD	23.81	3.217e4	3.985e4	1.151	0.81	0.77	592.8	YES	NO	bb	bb	9.192
37	Total-tetradoxins	26.31	2.067e3	2.621e3	1.090	0.79	0.77	25.7	YES	NO	bb	bb	0.632

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-tetradoxins	25.88	3.553e3	4.460e3	1.090	0.80	0.77	57.1	YES	NO	bd	bd	1.080
39	Total-tetradoxins	25.67	5.884e2	8.731e2	1.090	0.67	0.77	7.9	YES	NO	db	bb	0.197
40	Total-tetradoxins	25.29	2.435e3	3.171e3	1.090	0.77	0.77	39.4	YES	NO	bb	bb	0.756
41	Total-tetradoxins	25.02	1.456e3	1.676e3	1.090	0.87	0.77	22.3	YES	NO	db	bb	0.422
42	Total-tetradoxins	24.08	1.900e4	2.405e4	1.090	0.79	0.77	343.2	YES	NO	bb	bb	5.804
43	Total-pentadoxins	30.22	1.522e4	9.942e3	1.562	1.53	1.55	258.5	YES	NO	bb	bb	3.707
44	Total-pentadoxins	29.59	6.515e2	3.838e2	1.562	1.70	1.55	13.5	YES	NO	bb	bb	0.152
45	12378-PeCDD	31.82	1.229e3	7.668e2	1.152	1.60	1.55	16.5	YES	NO	MM	MM	0.399
46	Total-pentadoxins	31.14	9.881e3	6.599e3	1.562	1.50	1.55	154.4	YES	NO	bb	bb	2.428
47	Total-pentadoxins	30.57	1.746e4	1.218e4	1.562	1.43	1.55	303.7	YES	NO	bb	dd	4.365
48	Total-pentadoxins	30.43	8.812e2	5.781e2	1.562	1.52	1.55	16.9	YES	NO	bb	bd	0.215
49	123478-HxCDD	36.29	1.013e3	7.306e2	0.934	1.39	1.24	18.0	YES	NO	dd	MM	0.363
50	Total-hexadoxins	35.42	8.978e3	6.361e3	0.978	1.41	1.24	96.9	YES	NO	bd	db	3.038
51	Total-hexadoxins	35.05	7.060e4	5.613e4	0.978	1.26	1.24	1127.8	YES	NO	bb	bb	25.097
52	124679-HxCDD	34.29	6.474e3	5.606e3	1.153	1.15	1.24	107.4	YES	NO	bb	bb	2.041
53	123789-HxCDD	36.79	1.781e3	1.415e3	0.873	1.26	1.24	29.7	YES	NO	bd	bb	0.709
54	OCDD	45.39	9.831e4	1.132e5	1.089	0.87	0.89	877.3	YES	NO	bb	bb	66.174
55	1234678-HpCDD	40.56	2.487e4	2.353e4	1.268	1.06	1.05	374.2	YES	NO	bb	bb	10.909
56	1234679-HPCDD	39.49	2.578e4	2.495e4	1.473	1.03	1.05	407.4	YES	NO	bb	bd	9.842

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.30	3.801e6					4.7	YES		bb		
2	FUNCTION1 PFK	22.27	3.402e6					25.2	YES		db		
3	FUNCTION1 PFK	21.71	2.666e5					10.2	YES		bd		
4	FUNCTION1 PFK	21.44	1.469e5					2.5	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.70	1.201e5					4.4	YES		bb		0.000
2	FUNCTION2 PFK	28.25	7.925e4					7.7	YES		bb		0.000

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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.98	3.502e4					4.2	YES		bb		
2	FUNCTION4 PFK	38.14	1.511e4					2.9	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.89	4.816e2					0.4	NO		bb		
2	FUNCTION5 PFK	43.47	1.524e3					0.8	NO		bb		
3	FUNCTION5 PFK	43.43	8.847e3					1.9	NO		db		
4	FUNCTION5 PFK	43.37	1.827e3					0.8	NO		bd		
5	FUNCTION5 PFK	46.41	5.894e2					0.5	NO		bb		
6	FUNCTION5 PFK	46.34	4.545e3					1.1	NO		bb		
7	FUNCTION5 PFK	45.98	2.375e3					0.7	NO		bb		
8	FUNCTION5 PFK	45.81	2.353e3					1.0	NO		bb		
9	FUNCTION5 PFK	45.63	1.420e3					0.6	NO		bb		
10	FUNCTION5 PFK	45.15	4.990e2					0.4	NO		bb		
11	FUNCTION5 PFK	44.97	2.504e3					1.1	NO		bb		
12	FUNCTION5 PFK	44.90	4.411e3					1.0	NO		bb		
13	FUNCTION5 PFK	44.62	4.819e2					0.4	NO		bb		
14	FUNCTION5 PFK	44.51	1.210e3					0.7	NO		bb		
15	FUNCTION5 PFK	44.45	3.114e3					1.2	NO		bb		

ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.40	1.838e3					52.1	YES		bb		0.000
2	FUNCTION1 HXCD...	24.93	1.026e2					2.9	NO		bb		0.000
3	FUNCTION1 HXCD...	24.04	2.876e3					76.3	YES		bb		0.000
4	FUNCTION1 HXCD...	22.21	1.348e2					3.2	YES		bb		0.000
5	FUNCTION1 HXCD...	27.95	6.999e2					19.2	YES		bb		0.000
6	FUNCTION1 HXCD...	27.08	1.608e3					41.4	YES		bb		0.000
7	FUNCTION1 HXCD...	26.43	5.156e3					137.2	YES		bb		0.000
8	FUNCTION1 HXCD...	26.20	1.584e3					46.4	YES		db		0.000
9	FUNCTION1 HXCD...	26.05	2.758e3					73.4	YES		bd		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	21.09	1.666e2					4.6	YES		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.52	8.923e2					22.9	YES		bb		0.000
2	FUNCTION2 HPCD...	29.26	1.218e3					33.6	YES		bb		0.000
3	FUNCTION2 HPCD...	28.89	1.046e2					5.1	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.02	7.489e1					1.6	NO		bb		0.000
2	FUNCTION3 OCDPE	36.85	8.211e1					1.6	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.68	3.249e3					60.1	YES		bb		0.000
2	FUNCTION4 NCDPE	40.53	3.488e2					5.9	YES		bb		0.000
3	FUNCTION4 NCDPE	40.21	9.851e1					3.2	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk**

**ETHERS6**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

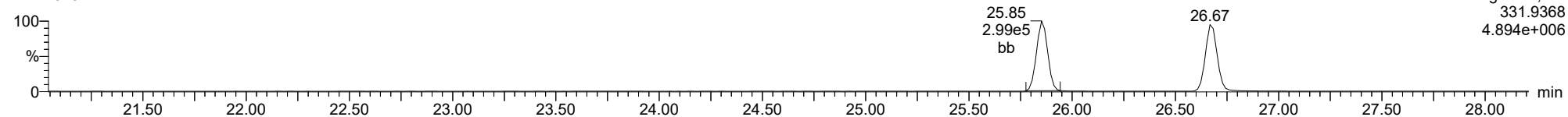


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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

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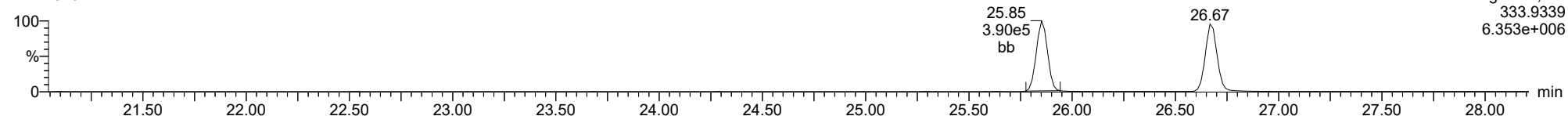
22122823



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4.894e+006

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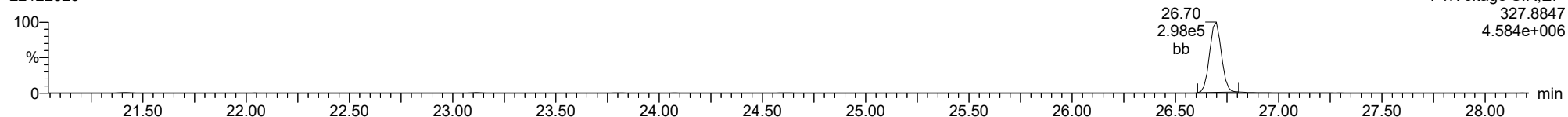
22122823



F1:Voltage SIR,El+  
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**37CL-2378-TCDD**

22122823

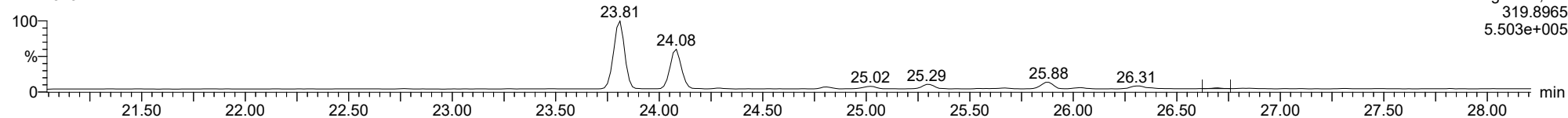


F1:Voltage SIR,El+  
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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

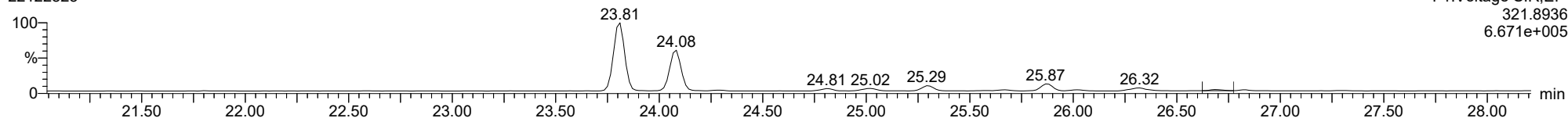
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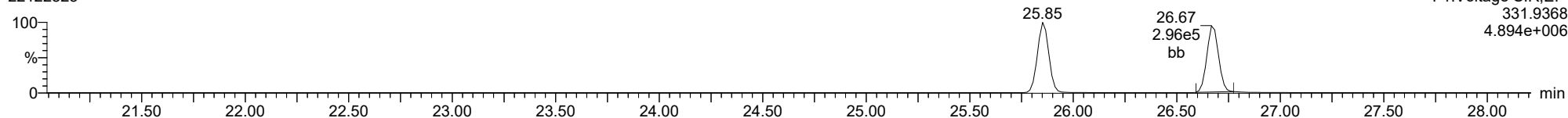
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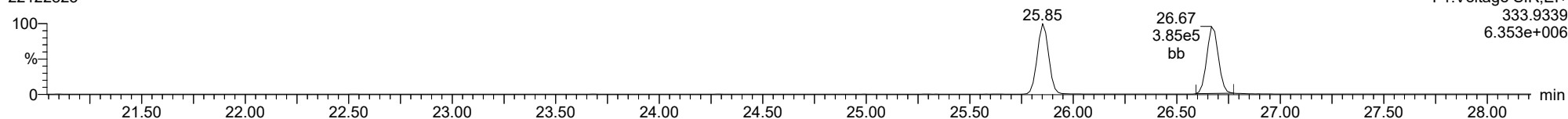
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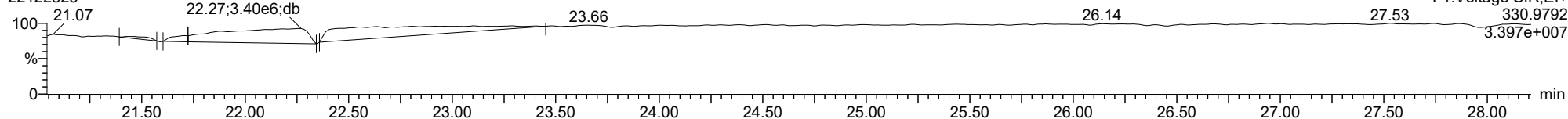
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22122823



**FUNCTION1 PFK**

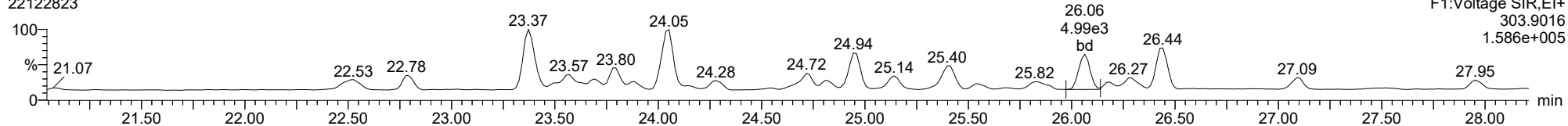
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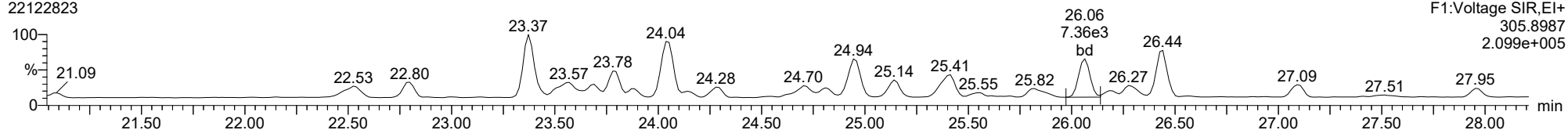
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22122823



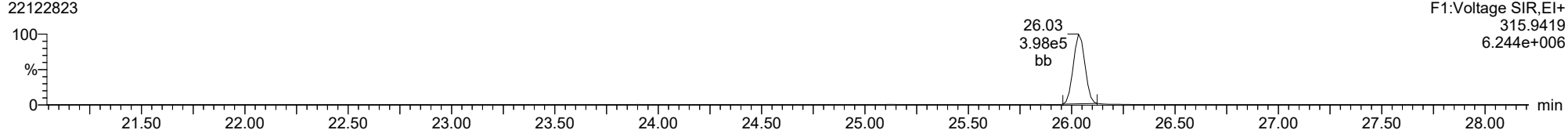
**2378-TCDF**

22122823



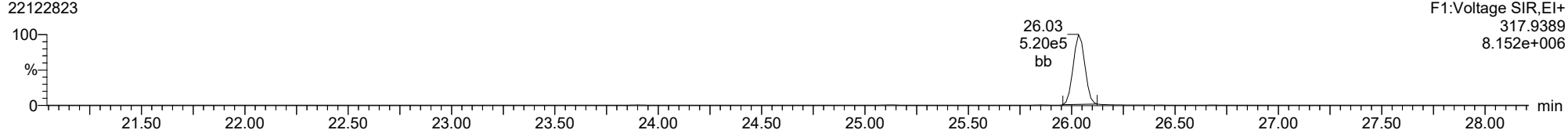
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22122823



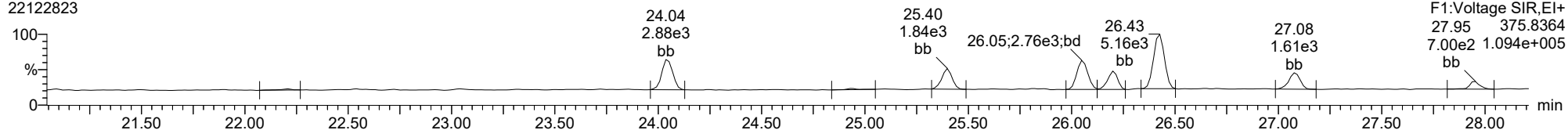
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22122823



**FUNCTION1 HXCDPE**

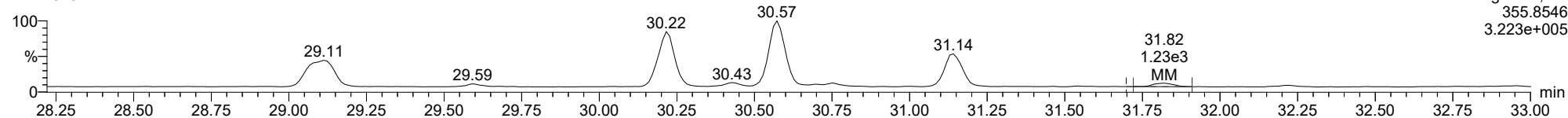
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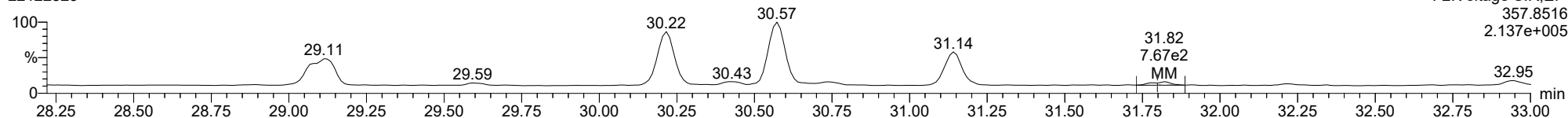
**12378-PeCDD**

22122823



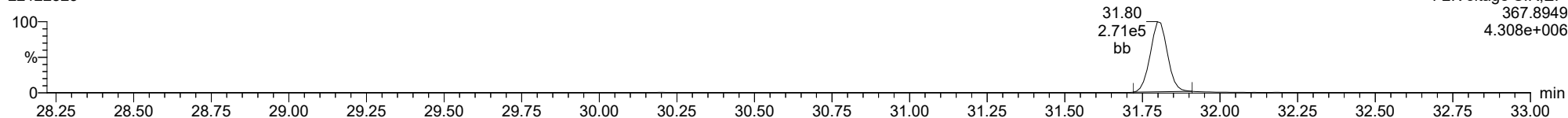
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22122823



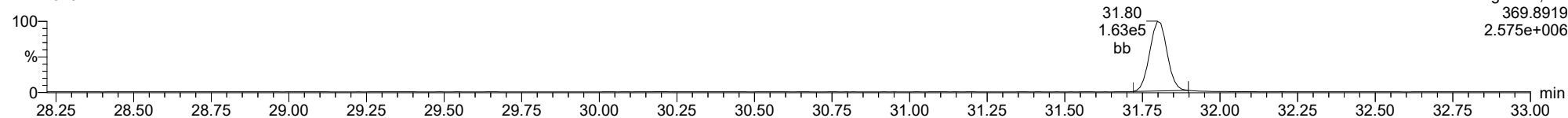
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22122823



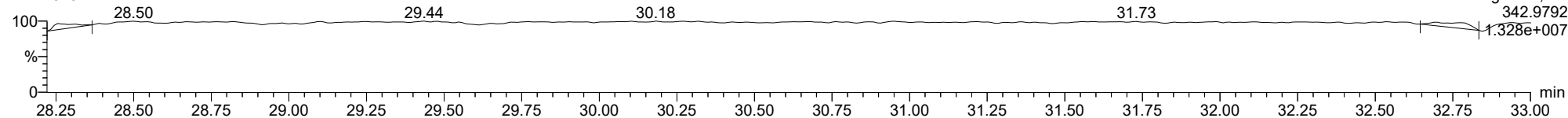
**13C-12378-PeCDD**

22122823



**FUNCTION2 PFK**

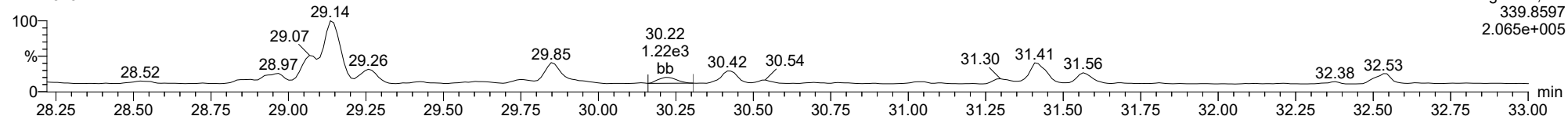
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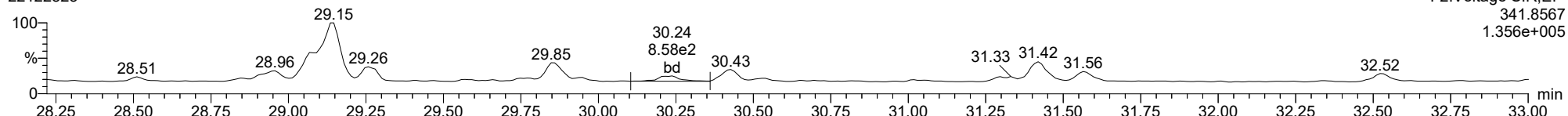
12378-PeCDF

22122823



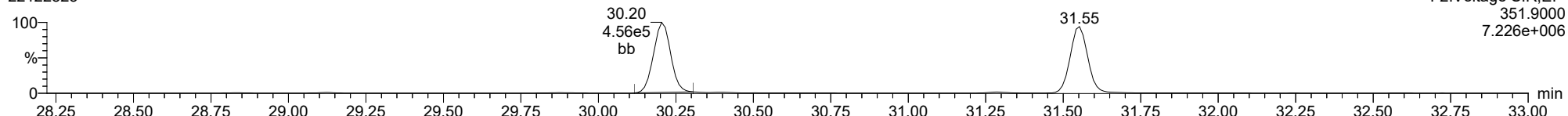
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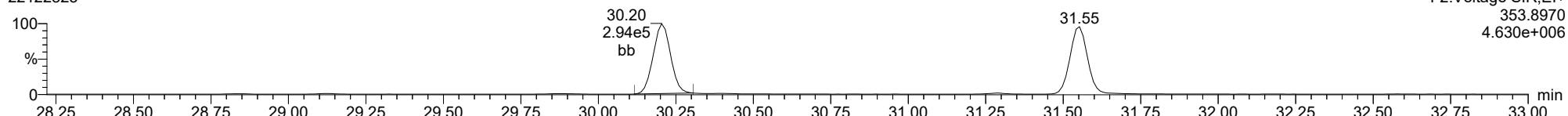
13C-12378-PeCDF

22122823



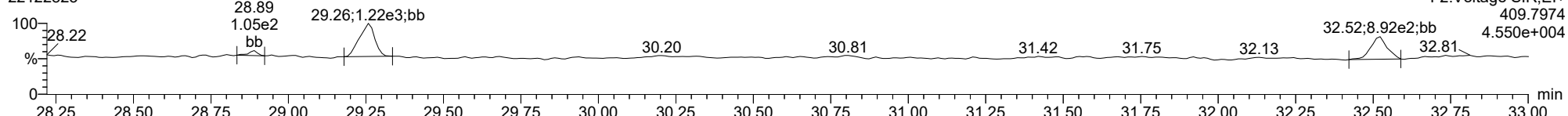
13C-12378-PeCDF

22122823



FUNCTION2 HPCDPE

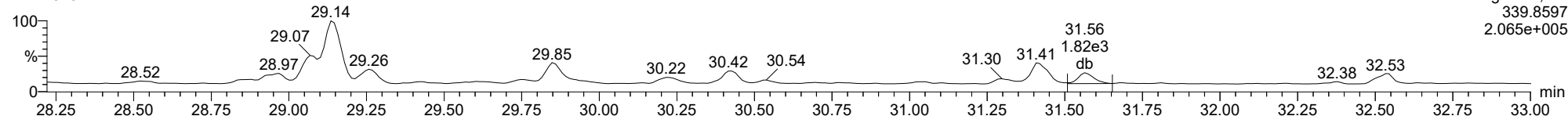
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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

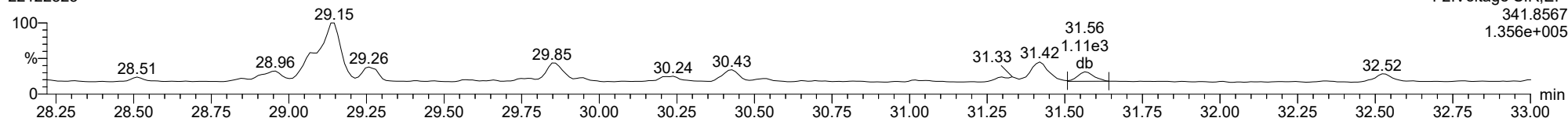
**23478-PeCDF**

22122823



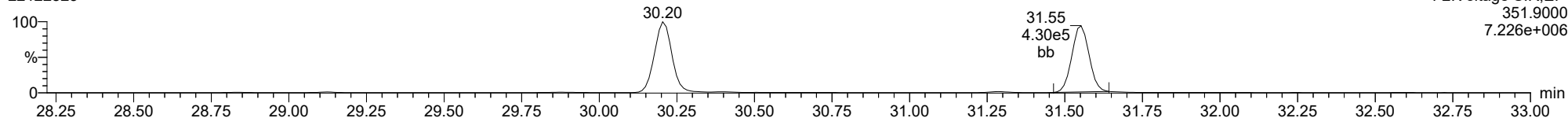
**23478-PeCDF**

22122823



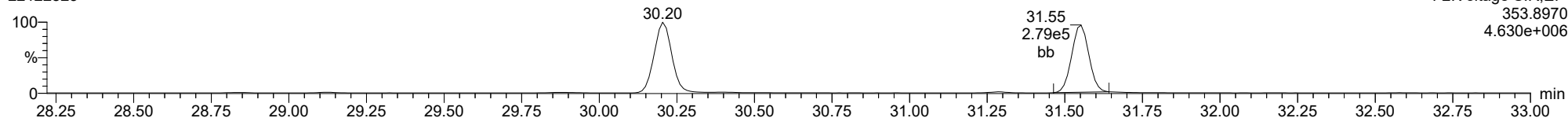
**13C-23478-PeCDF**

22122823



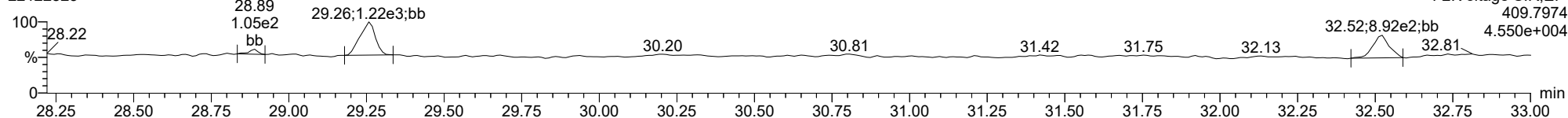
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22122823



**FUNCTION2 HPCDPE**

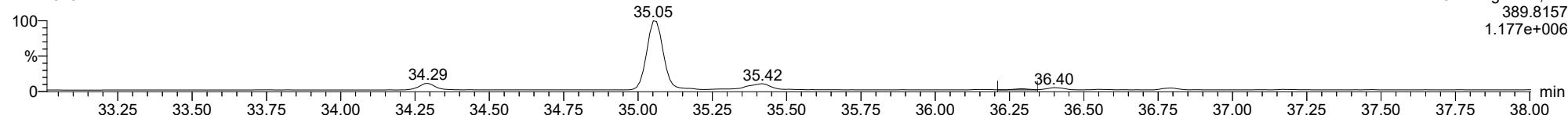
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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

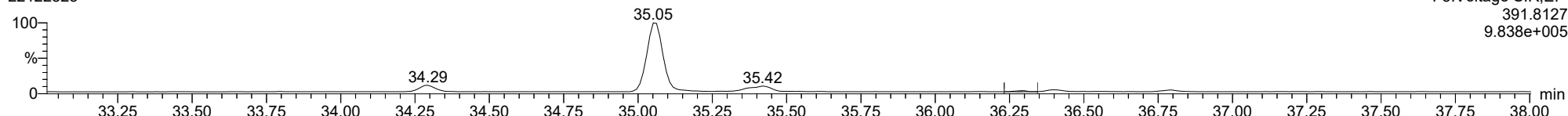
123478-HxCDD

22122823



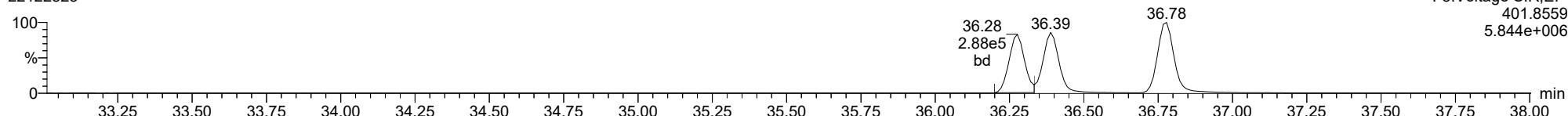
123478-HxCDD

22122823



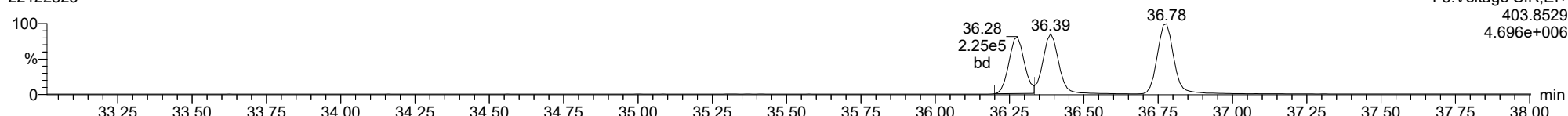
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22122823



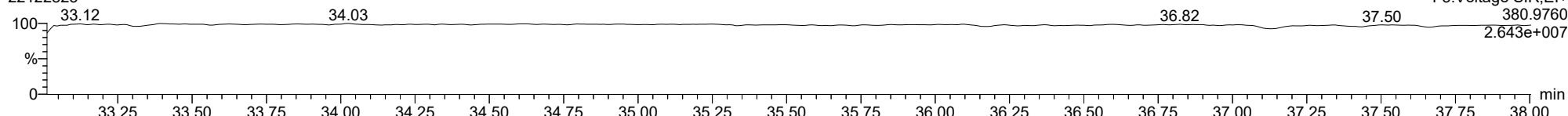
13C-123478-HxCDD

22122823



FUNCTION3 PFK

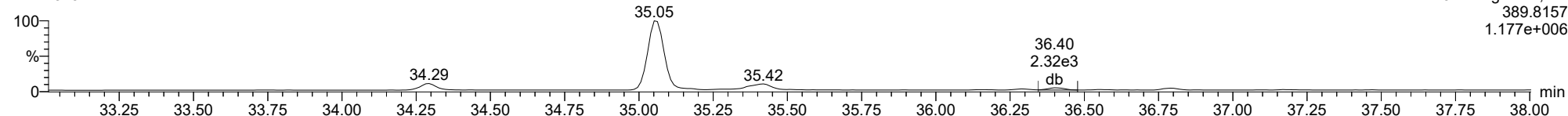
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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

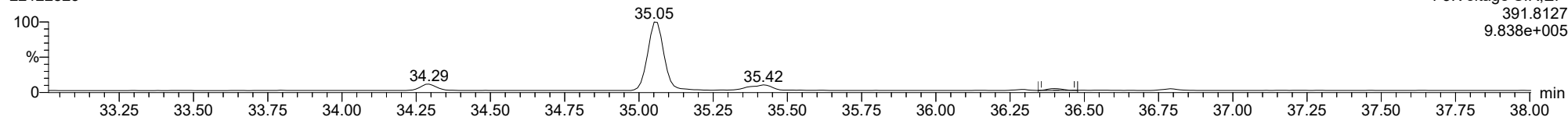
22122823



F3:Voltage SIR,EI+  
389.8157  
1.177e+006

**123678-HxCDD**

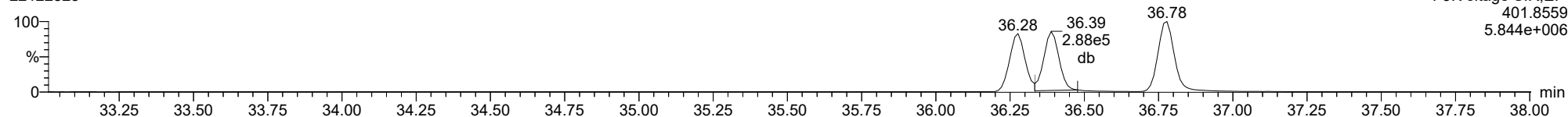
22122823



F3:Voltage SIR,EI+  
391.8127  
9.838e+005

**13C-123678-HxCDD**

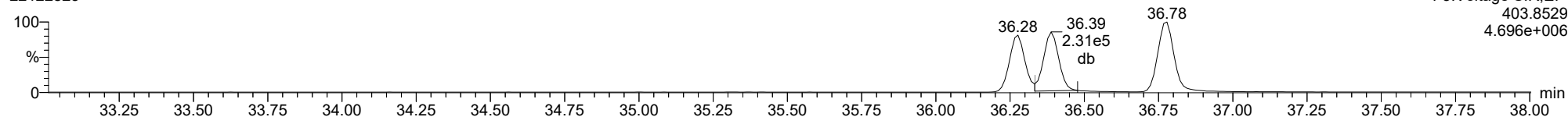
22122823



F3:Voltage SIR,EI+  
401.8559  
5.844e+006

**13C-123678-HxCDD**

22122823



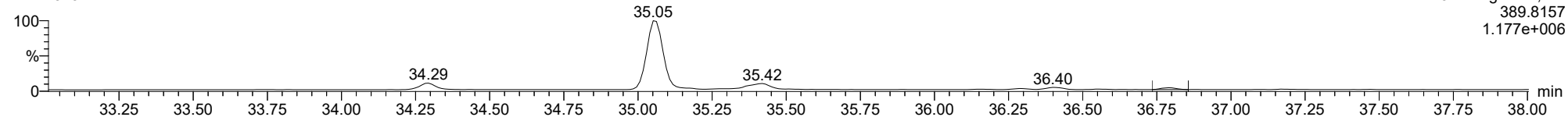
F3:Voltage SIR,EI+  
403.8529  
4.696e+006



ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

**123789-HxCDD**

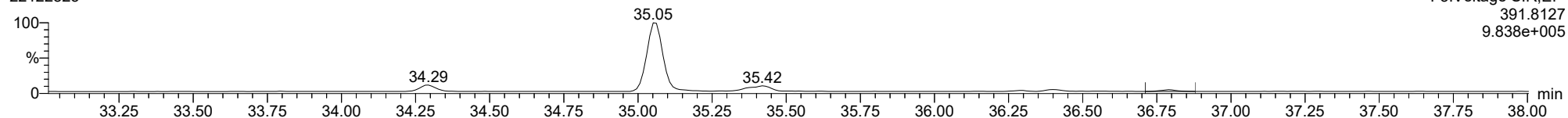
22122823



F3:Voltage SIR,EI+  
389.8157  
1.177e+006

**123789-HxCDD**

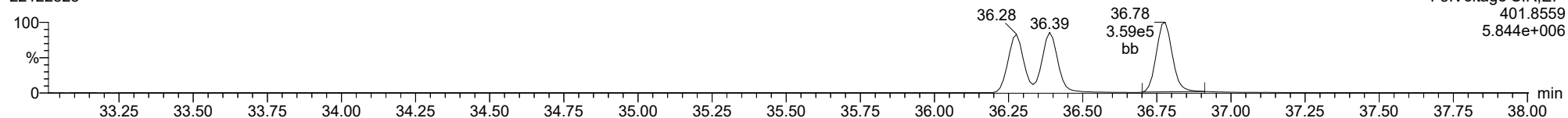
22122823



F3:Voltage SIR,EI+  
391.8127  
9.838e+005

**13C-123789-HxCDD**

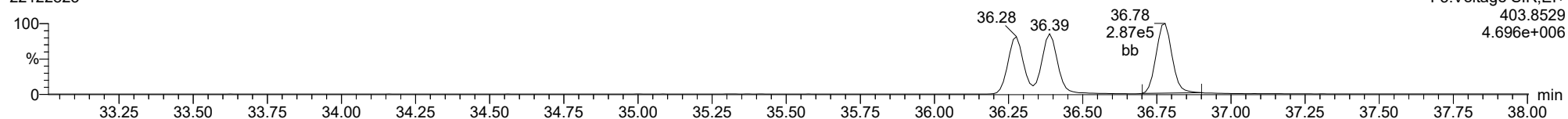
22122823



F3:Voltage SIR,EI+  
401.8559  
5.844e+006

**13C-123789-HxCDD**

22122823

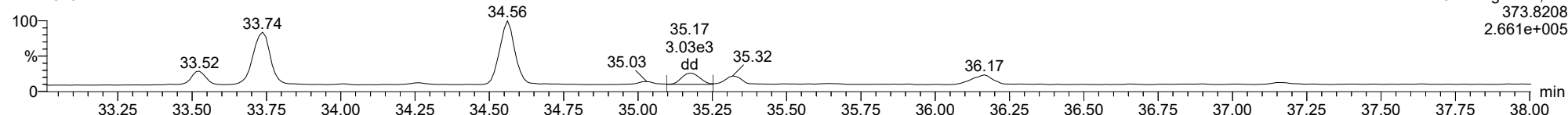


F3:Voltage SIR,EI+  
403.8529  
4.696e+006

ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

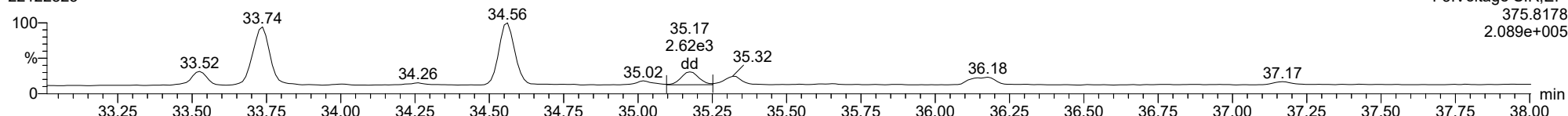
123478-HxCDF

22122823



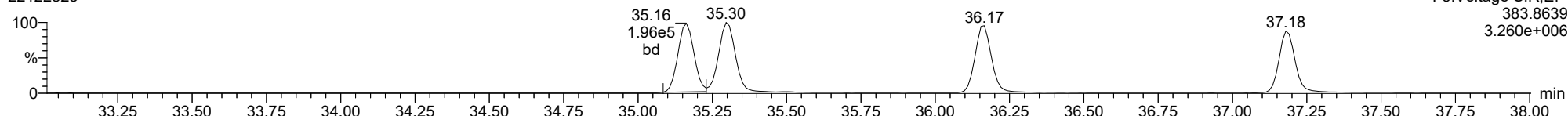
123478-HxCDF

22122823



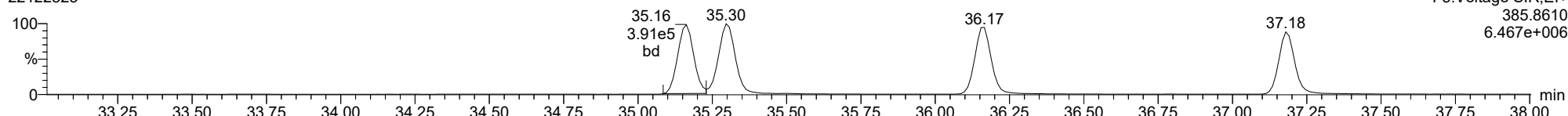
13C-123478-HxCDF

22122823



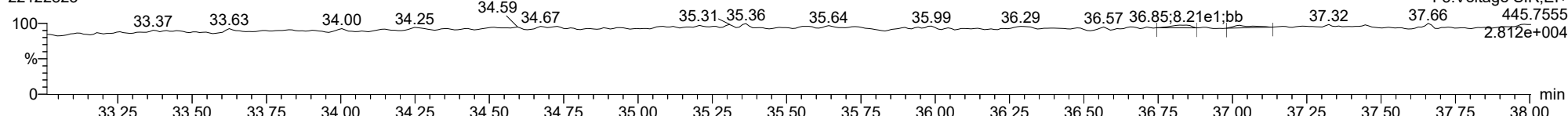
13C-123478-HxCDF

22122823



FUNCTION3 OCDPE

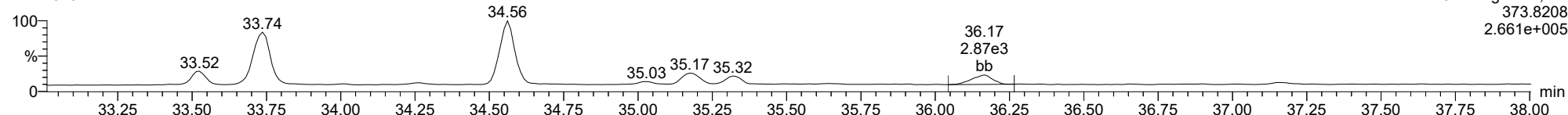
22122823



ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

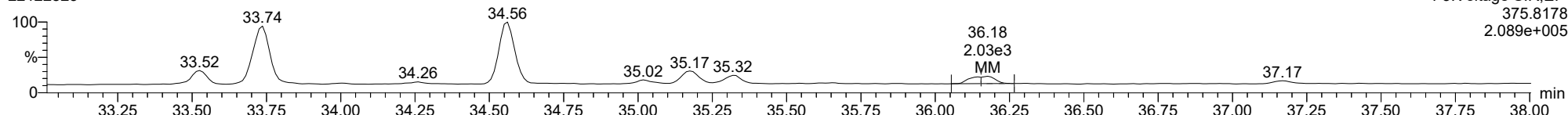
**234678-HxCDF**

22122823



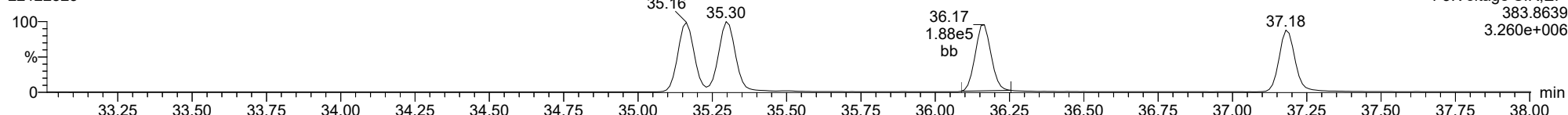
**234678-HxCDF**

22122823



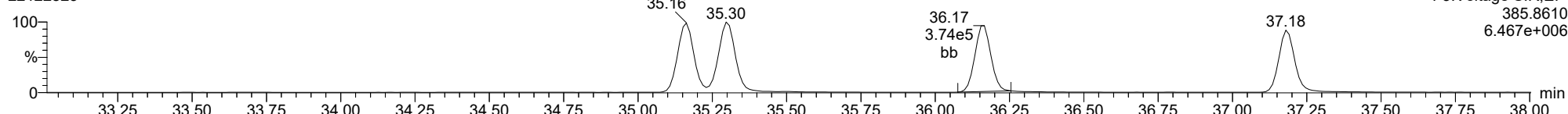
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22122823



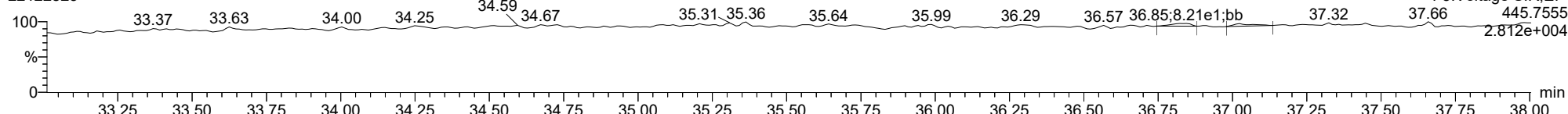
**13C-234678-HxCDF**

22122823



**FUNCTION3 OCDPE**

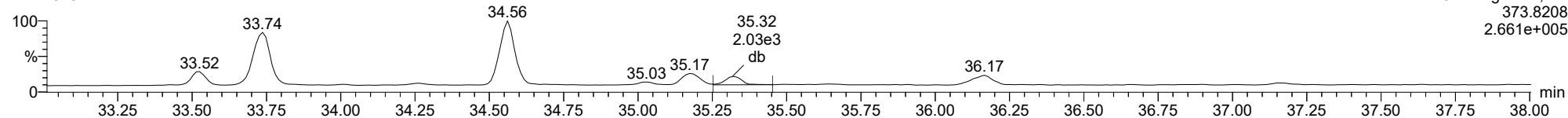
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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

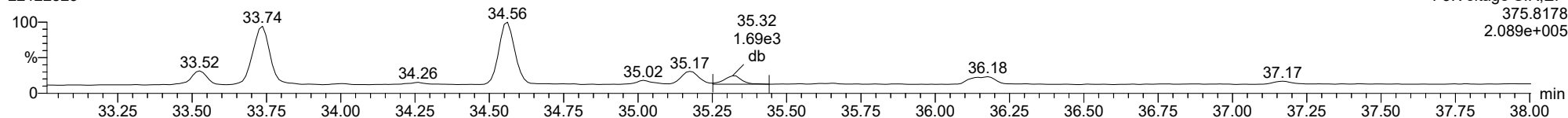
**123678-HxCDF**

22122823



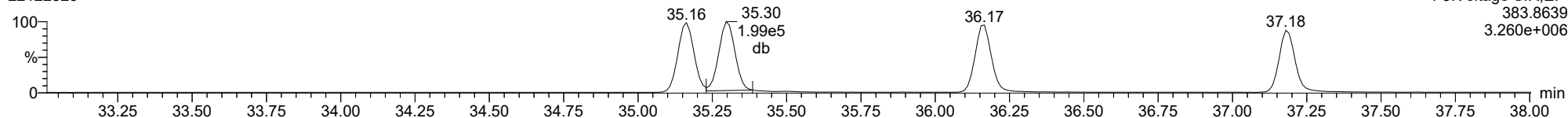
**123678-HxCDF**

22122823



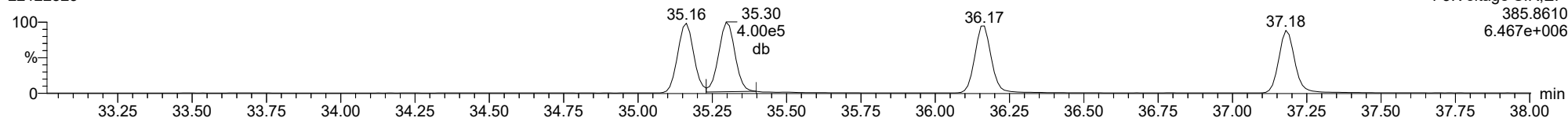
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22122823



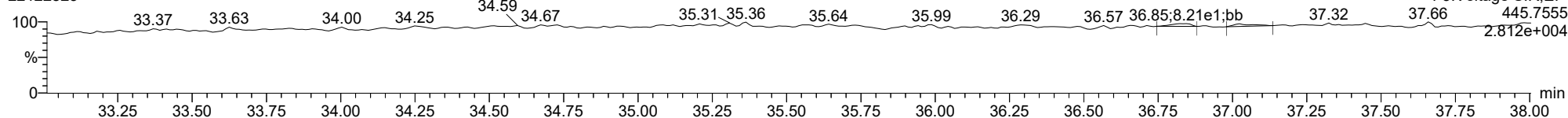
**13C-123678-HxCDF**

22122823



**FUNCTION3 OCDPE**

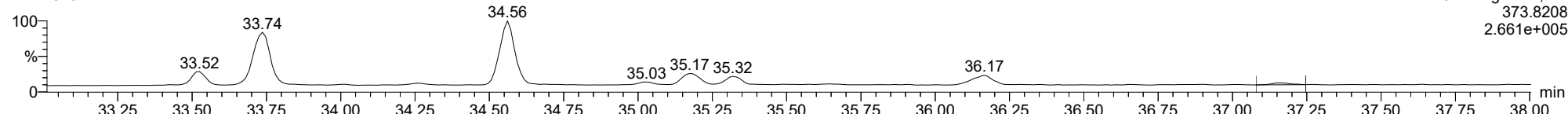
22122823



ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

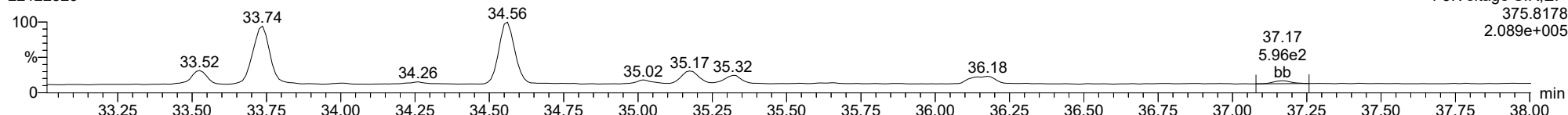
**123789-HxCDF**

22122823



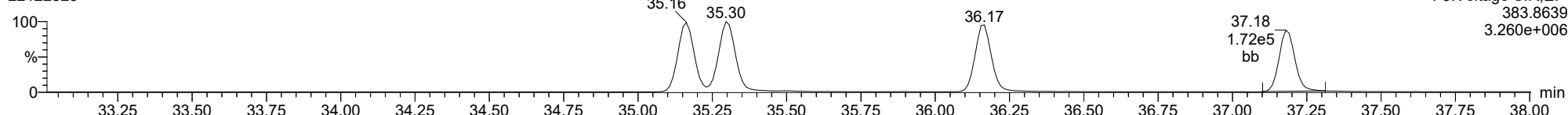
**123789-HxCDF**

22122823



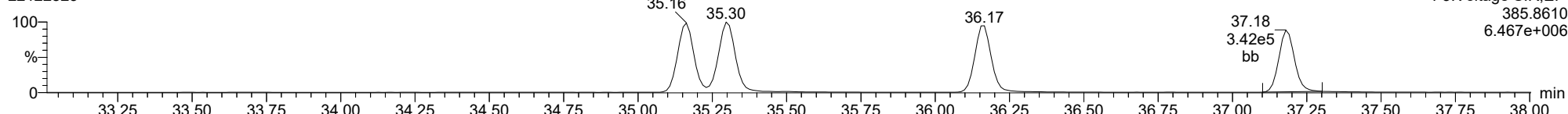
**13C-123789-HxCDF**

22122823



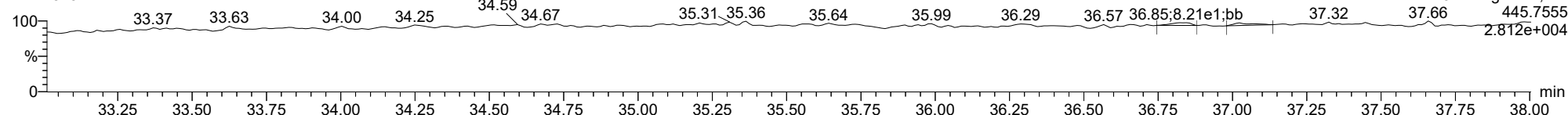
**13C-123789-HxCDF**

22122823



**FUNCTION3 OCDPE**

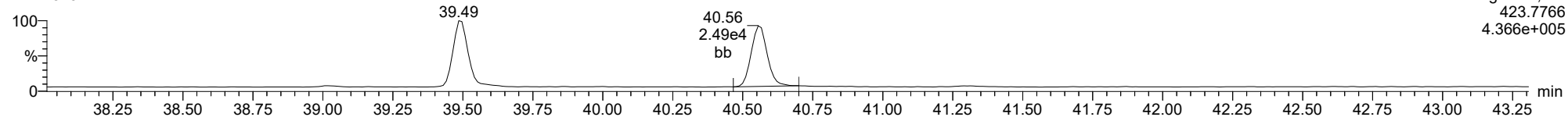
22122823



ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

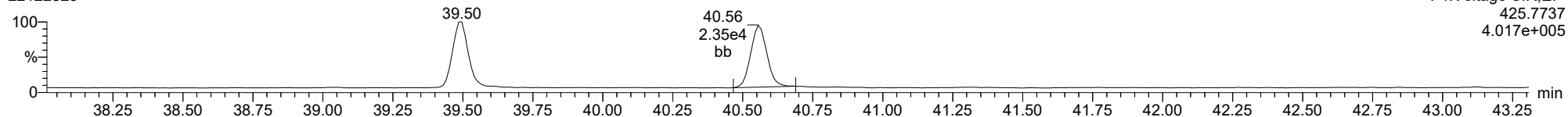
**1234678-HpCDD**

22122823



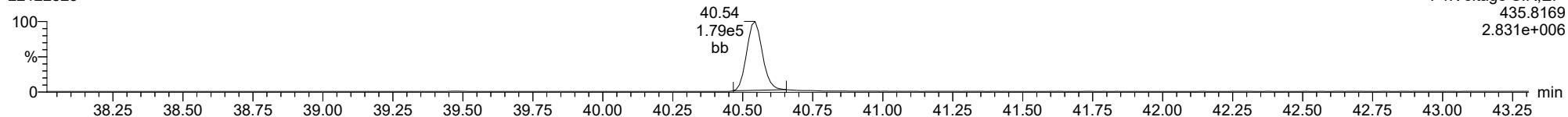
**1234678-HpCDD**

22122823



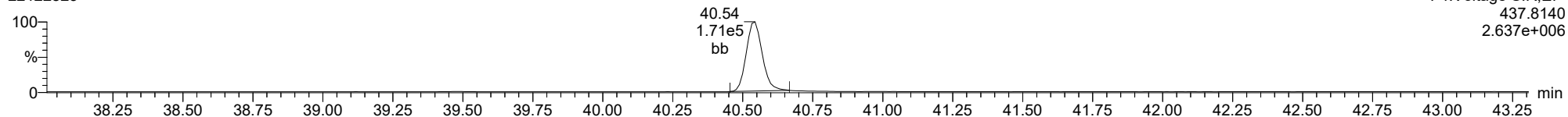
**13C-1234678-HpCDD**

22122823



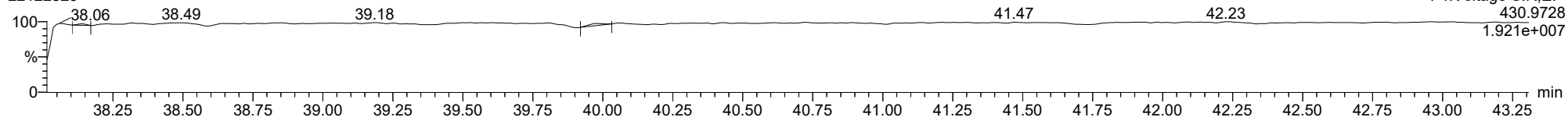
**13C-1234678-HpCDD**

22122823



**FUNCTION4 PFK**

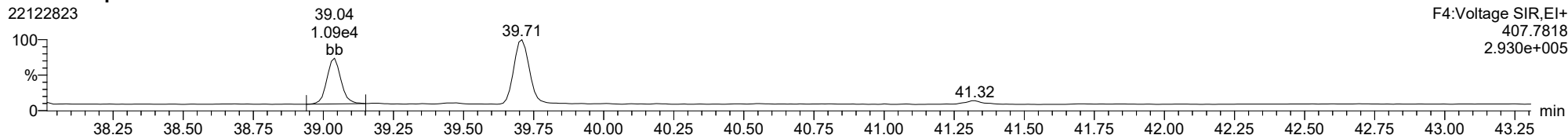
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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

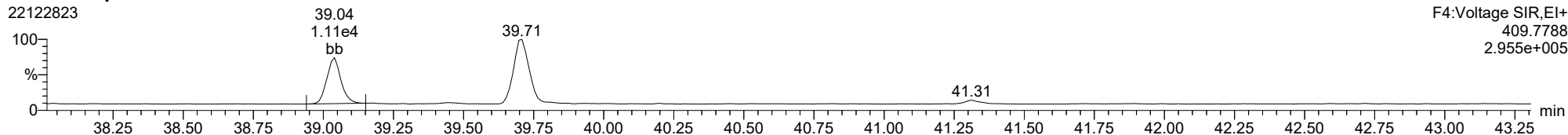
**1234678-HpCDF**

22122823



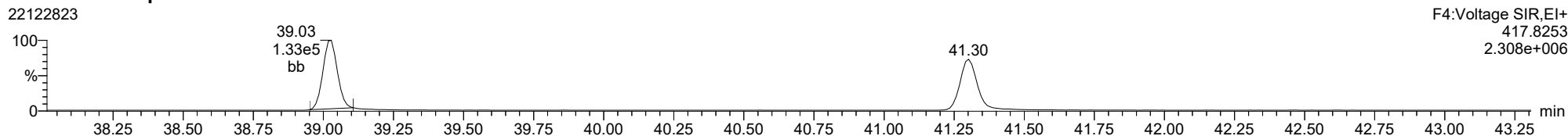
**1234678-HpCDF**

22122823



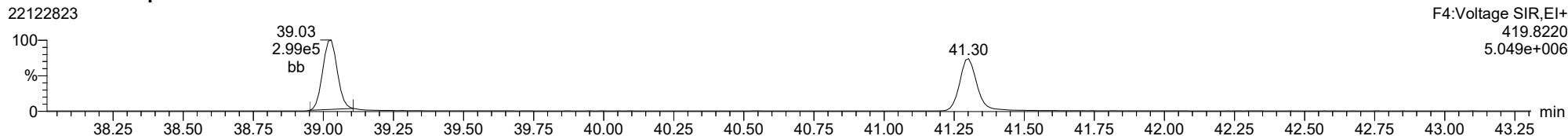
**13C-1234678-HpCDF**

22122823



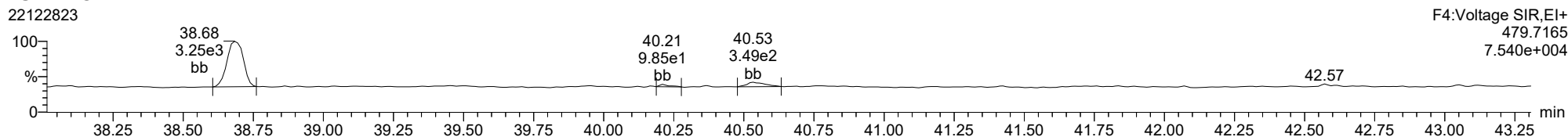
**13C-1234678-HpCDF**

22122823



**FUNCTION4 NCDPE**

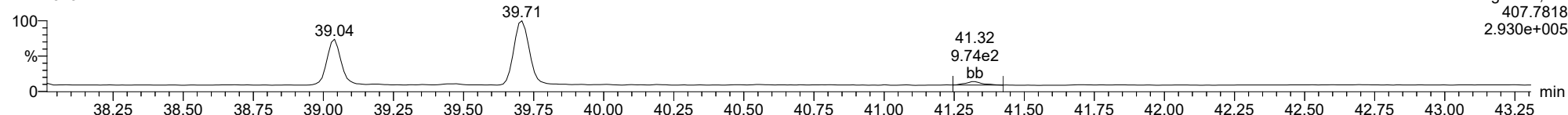
22122823



ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

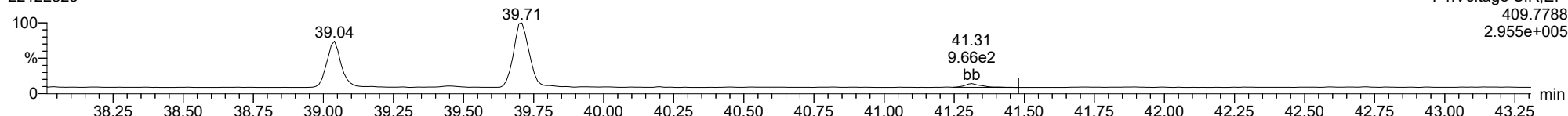
**1234789-HpCDF**

22122823



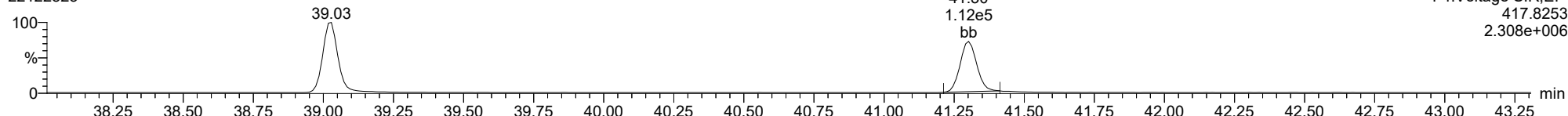
**1234789-HpCDF**

22122823



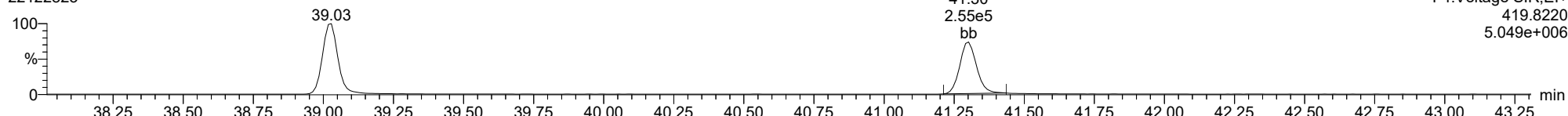
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22122823



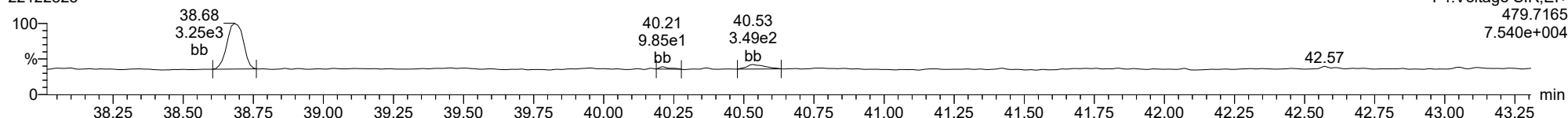
**13C-1234789-HpCDF**

22122823



**FUNCTION4 NCDPE**

22122823

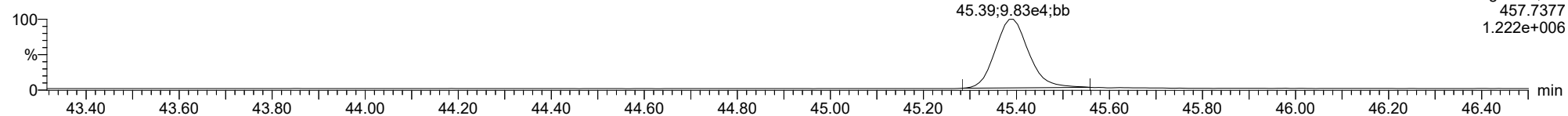




ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

**OCDD**

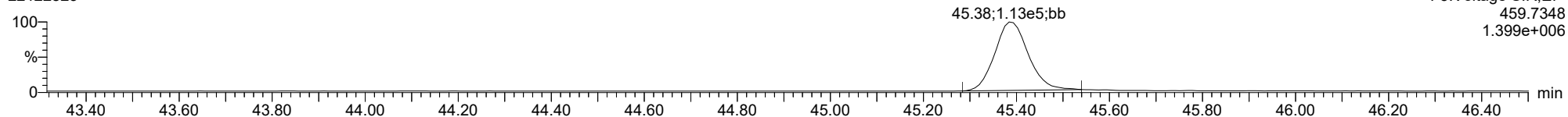
22122823



F5:Voltage SIR,El+  
457.7377  
1.222e+006

**OCDD**

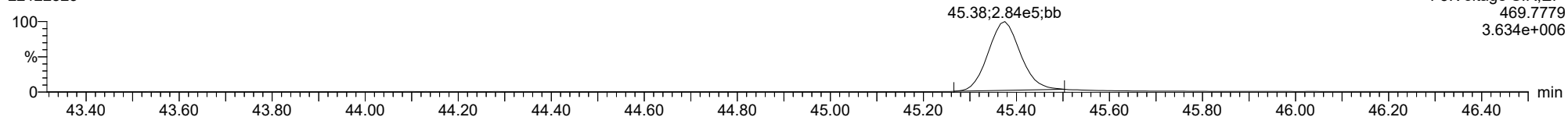
22122823



F5:Voltage SIR,El+  
459.7348  
1.399e+006

**13C-OCDD**

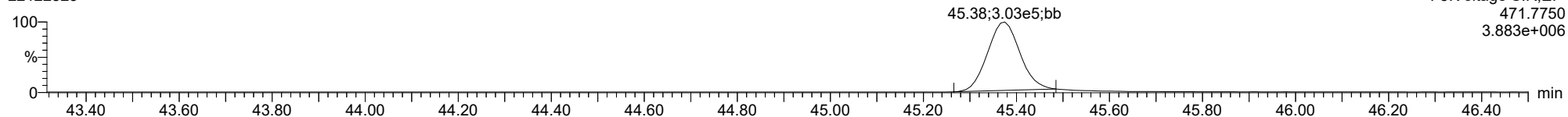
22122823



F5:Voltage SIR,El+  
469.7779  
3.634e+006

**13C-OCDD**

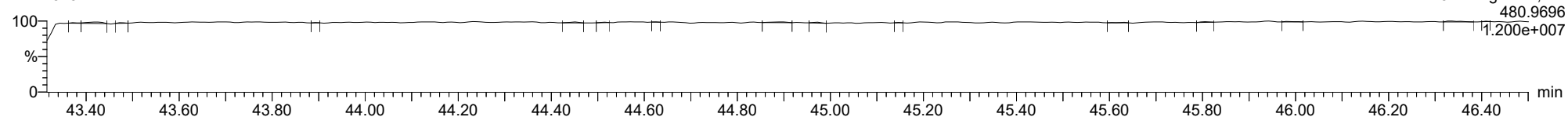
22122823



F5:Voltage SIR,El+  
471.7750  
3.883e+006

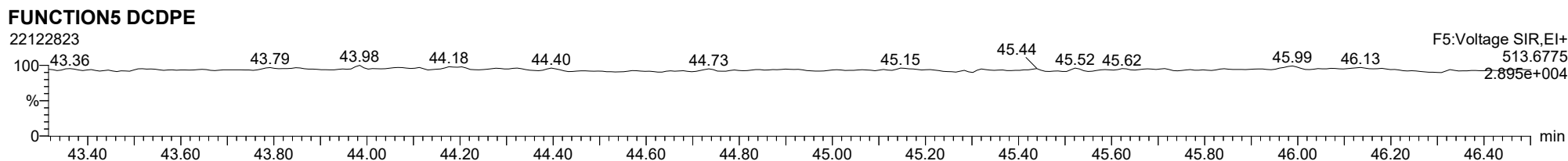
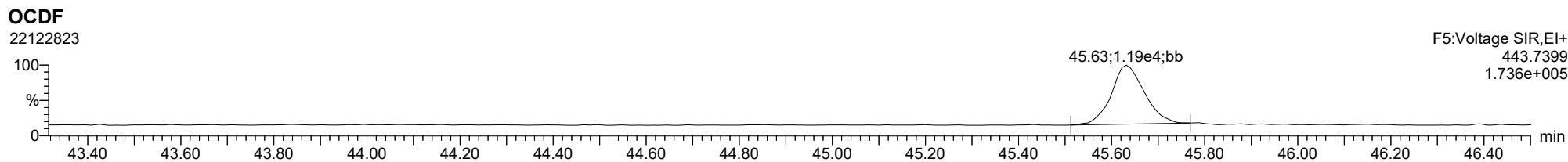
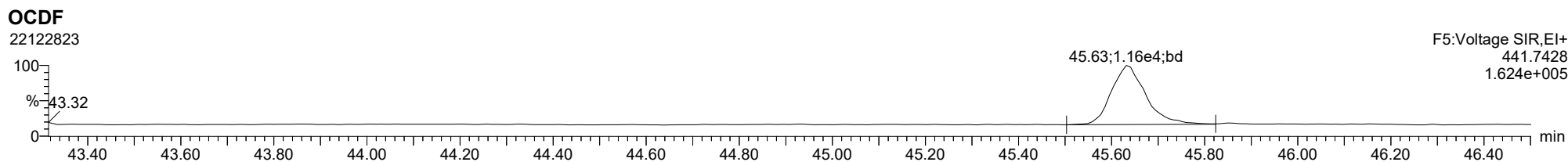
**FUNCTION5 PFK**

22122823



F5:Voltage SIR,El+  
480.9696  
1.200e+007

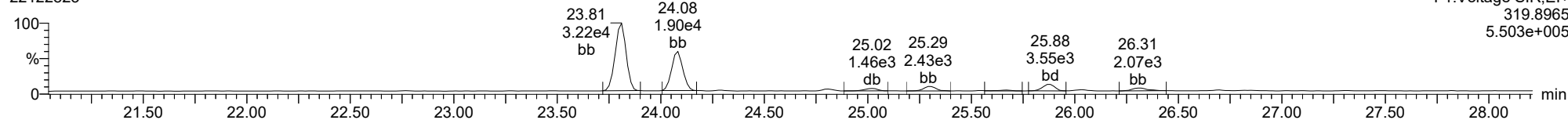
ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk



ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

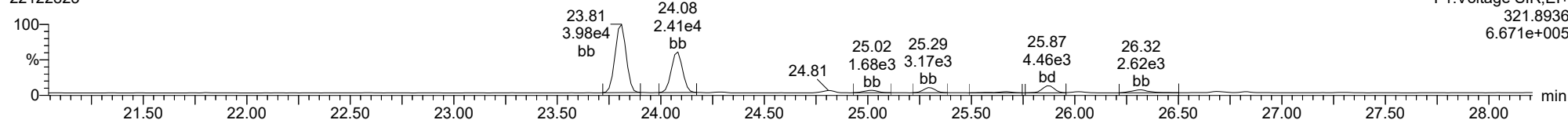
**Total-tetradoxins**

22122823



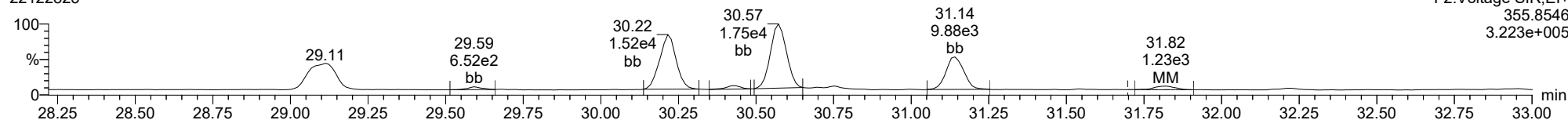
**Total-tetradoxins**

22122823



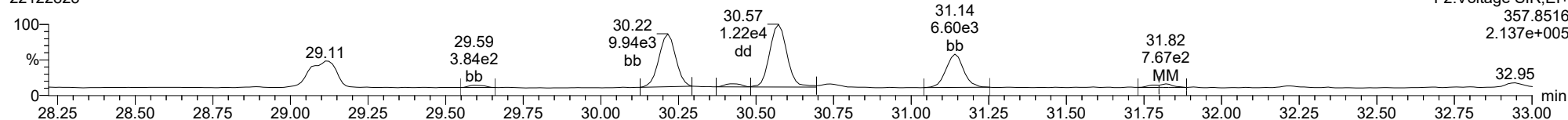
**Total-pentadoxins**

22122823



**Total-pentadoxins**

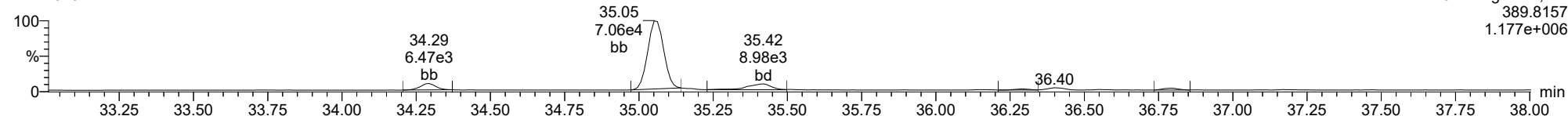
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ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

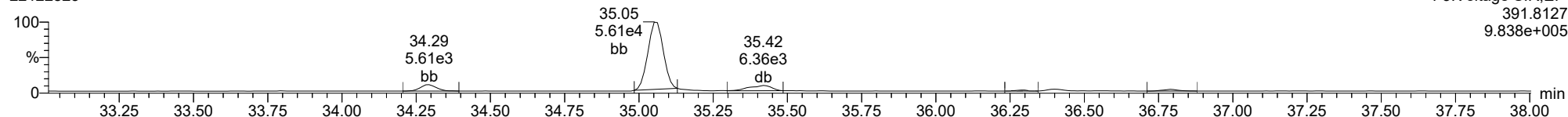
**Total-hexadioxins**

22122823



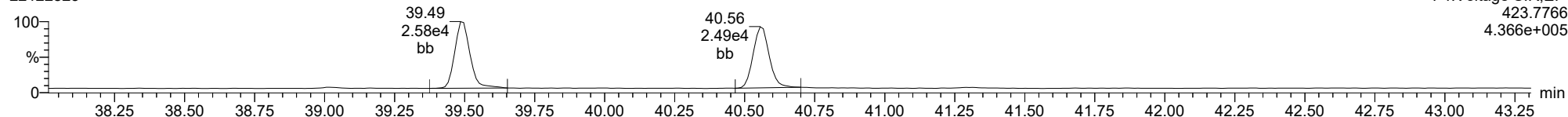
**Total-hexadioxins**

22122823



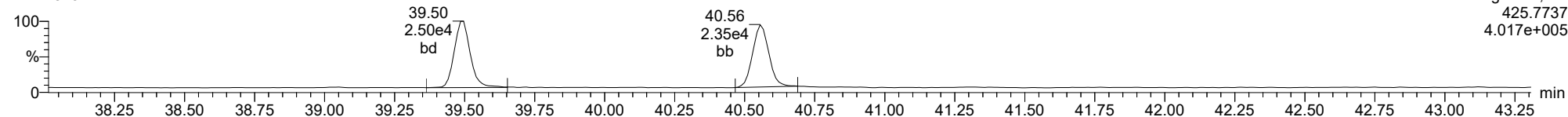
**Total-heptadioxins**

22122823



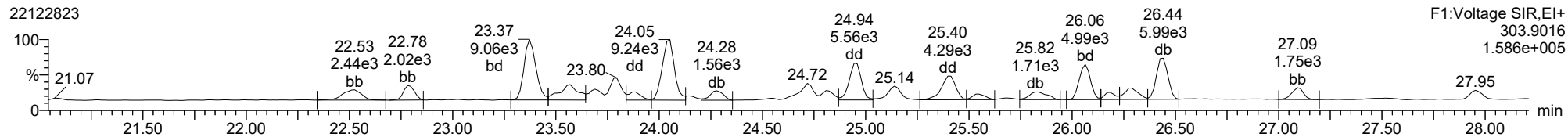
**Total-heptadioxins**

22122823

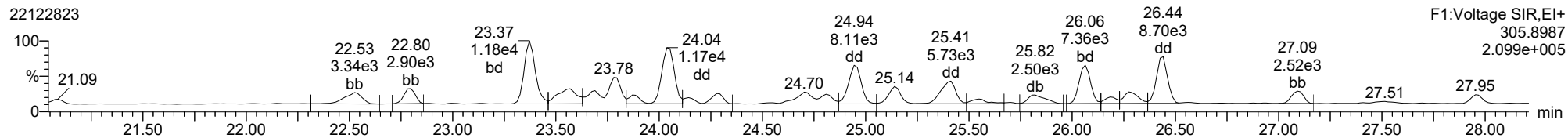


ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

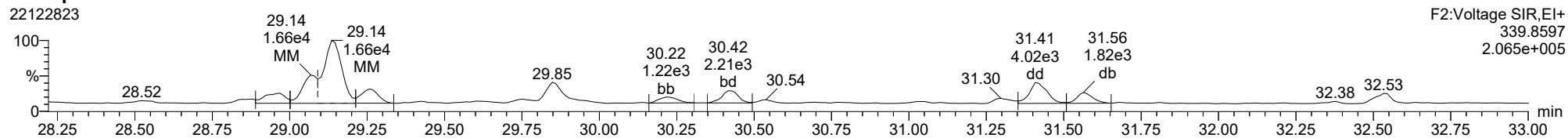
**Total-tetrafurans**



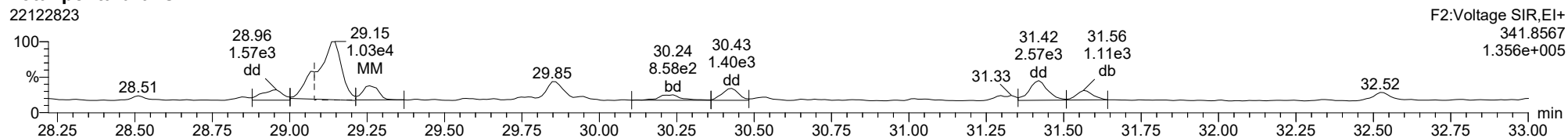
**Total-tetrafurans**



**Total-pentafurans**



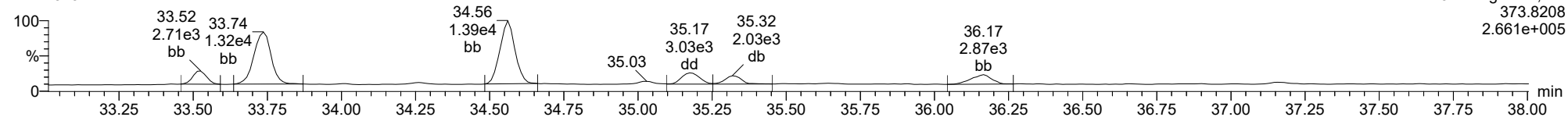
**Total-pentafurans**



ID: 22L0246-11, Name: 22122823, Date: 29-Dec-2022, Time: 05:00:37, Conditions: AUTOSPEC01, User: pk

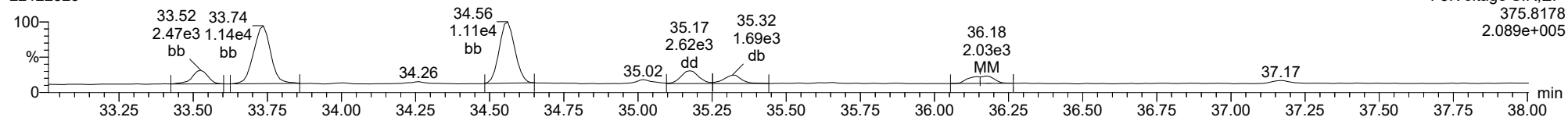
**Total-hexafluorans**

22122823



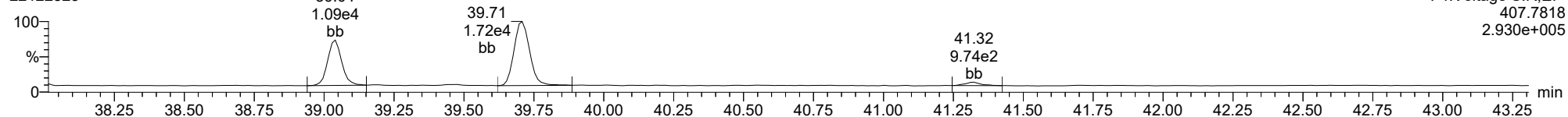
**Total-hexafluorans**

22122823



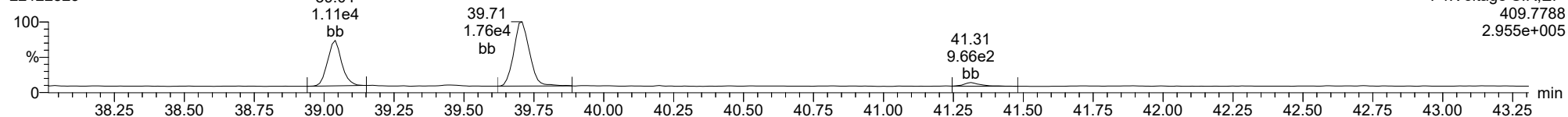
**Total-heptafluorans**

22122823



**Total-heptafluorans**

22122823





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-12 A File ID: 23020124  
 Sampled: 12/09/22 08:40 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 08:08  
 % Solids: 53.24 Preparation: EPA 1613 Initial/Final: 18.79 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.825	0.655-0.886	0.145	1.00	3.75	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.415	0.655-0.886	0.097	1.00	0.345	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.283	1.318-1.783	0.188	1.00	0.697	ng/kg	EMPC, J
57117-31-4	2,3,4,7,8-PeCDF	1		1.318-1.783	0.180	1.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1		1.318-1.783	0.198	1.00	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.268	1.054-1.426	0.114	1.00	0.814	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.626	1.054-1.426	0.107	1.00	0.686	ng/kg	EMPC, J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.234	1.054-1.426	0.108	1.00	0.962	ng/kg	J
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.916	1.054-1.426	0.117	1.00	0.396	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.101	1.054-1.426	0.175	1.00	0.434	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.063	1.054-1.426	0.167	1.00	0.710	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.217	1.054-1.426	0.174	1.00	0.782	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.024	0.893-1.208	0.120	1.00	2.95	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.942	0.893-1.208	0.162	1.00	0.590	ng/kg	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.986	0.893-1.208	0.203	2.50	5.89	ng/kg	B
39001-02-0	OCDF	1	0.974	0.757-1.024	0.196	2.50	4.94	ng/kg	B
3268-87-9	OCDD	1	0.865	0.757-1.024	0.233	10.0	42.8	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	28.6	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	4.99	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	11.5	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	3.53	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	9.80	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	8.35	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	8.82	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	12.5	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.33  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.45



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-12</u>
Sampled:	<u>12/09/22 08:40</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>53.24</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020124</u>
		Analyzed:	<u>02/02/23 08:08</u>
		Initial/Final:	<u>18.79 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.786	0.655-0.886	0.174	74.2	24 - 169 %	
13C12-2,3,7,8-TCDD		0.796	0.655-0.886	0.141	82.6	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.500	1.318-1.783	0.261	76.7	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.543	1.318-1.783	0.272	77.4	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.638	1.318-1.783	0.149	75.9	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.511	0.434-0.587	0.259	76.6	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.509	0.434-0.587	0.253	76.1	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.497	0.434-0.587	0.269	78.2	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.504	0.434-0.587	0.294	81.3	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.285	1.054-1.426	0.210	80.1	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.306	1.054-1.426	0.203	80.8	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.447	0.374-0.506	0.232	69.9	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.439	0.374-0.506	0.266	68.5	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.078	0.893-1.208	0.300	72.3	23 - 140 %	
13C12-OCDD		0.910	0.757-1.024	0.231	69.0	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.046	90.3	35 - 197 %	

\* Values outside of QC limits



Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:05:34 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40**

**ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.927	1.002	6.625e3	8.034e3	0.876	0.825	0.770	1330	1505	9.06e4	1.12e5	68.1	74.6	NO	dd	bd	1.874
12378-PeCDF	30.037	1.000	1.320e3	1.029e3	0.845	1.283	1.550	1827	1340	2.15e4	1.32e4	11.8	9.9	YES	bd	bb	0.349
23478-PeCDF					0.911		1.550	1827	1340								
123478-HxCDF	34.984	1.001	1.611e3	1.271e3	1.182	1.268	1.240	1102	1060	2.64e4	2.11e4	23.9	19.9	NO	dd	bd	0.407
234678-HxCDF	35.975	1.000	1.922e3	1.557e3	1.229	1.234	1.240	1102	1060	2.55e4	1.86e4	23.2	17.5	NO	bb	bb	0.481
123678-HxCDF	35.129	1.001	1.615e3	9.929e2	1.248	1.626	1.240	1102	1060	2.35e4	1.72e4	21.3	16.2	YES	db	db	0.343
123789-HxCDF	36.989	1.000	6.282e2	6.861e2	1.187	0.916	1.240	1102	1060	9.20e3	9.21e3	8.3	8.7	YES	bb	bb	0.198
1234678-HpCDF	38.839	1.000	4.824e3	4.709e3	1.204	1.024	1.050	1198	972	7.76e4	7.66e4	64.8	78.8	NO	bb	bb	1.474
1234789-HpCDF	41.089	1.000	7.670e2	8.141e2	1.165	0.942	1.050	1198	972	1.18e4	1.37e4	9.8	14.1	NO	bb	bb	0.295
OCDF	45.348	1.006	5.827e3	5.984e3	1.186	0.974	0.890	992	925	7.41e4	6.83e4	74.7	73.8	NO	bb	bb	2.469
2378-TCDD	26.532	1.001	3.883e2	9.352e2	1.236	0.415	0.770	1076	800	6.59e3	1.26e4	6.1	15.7	YES	bd	MM	0.173
12378-PeCDD					1.087		1.550	1418	1077								
123478-HxCDD	36.098	1.000	6.223e2	5.651e2	0.987	1.101	1.240	910	1683	8.30e3	8.49e3	9.1	5.0	NO	bd	bd	0.217
123678-HxCDD	36.221	1.001	1.080e3	1.016e3	1.021	1.063	1.240	910	1683	1.57e4	1.59e4	17.3	9.4	NO	dd	db	0.355
123789-HxCDD	36.611	1.011	1.198e3	9.843e2	0.985	1.217	1.240	910	1683	1.68e4	1.73e4	18.4	10.3	NO	bb	bb	0.391
1234678-HpCDD	40.343	1.000	7.681e3	7.788e3	1.253	0.986	1.050	1385	1323	1.17e5	1.13e5	84.6	85.6	NO	bd	bb	2.946
OCDD	45.102	1.000	4.414e4	5.103e4	1.103	0.865	0.890	1005	1114	5.48e5	6.14e5	545.1	551.5	NO	bb	bd	21.404
13C-2378-TCDF	25.867	1.006	3.930e5	4.999e5	1.768	0.786	0.770	3054	2352	5.89e6	7.53e6	1929.3	3200.1	NO	bb	bb	74.180
13C-12378-PeCDF	30.026	1.168	4.788e5	3.191e5	1.527	1.500	1.550	3032	3987	7.16e6	4.66e6	2361.2	1167.7	NO	bb	bd	76.746
13C-23478-PeCDF	31.352	1.220	4.688e5	3.039e5	1.466	1.543	1.550	3032	3987	7.01e6	4.54e6	2312.3	1138.5	NO	bb	bb	77.410
13C-123478-HxCDF	34.962	0.956	2.026e5	3.963e5	1.054	0.511	0.510	2617	2694	3.26e6	6.42e6	1244.1	2381.7	NO	bd	bd	76.621
13C-123678-HxCDF	35.106	0.960	2.054e5	4.039e5	1.080	0.509	0.510	2617	2694	3.27e6	6.40e6	1249.1	2374.9	NO	db	db	76.058
13C-234678-HxCDF	35.964	0.983	1.953e5	3.932e5	1.014	0.497	0.510	2617	2694	3.23e6	6.44e6	1235.9	2390.1	NO	bb	bb	78.205
13C-123789-HxCDF	36.989	1.011	1.877e5	3.720e5	0.928	0.504	0.510	2617	2694	3.13e6	6.15e6	1196.7	2284.6	NO	bb	bb	81.311
13C-1234678-HpCDF	38.828	1.062	1.660e5	3.712e5	1.036	0.447	0.440	2244	2437	2.78e6	6.16e6	1241.0	2526.6	NO	bb	bb	69.895
13C-1234789-HpCDF	41.078	1.123	1.403e5	3.197e5	0.905	0.439	0.440	2244	2437	2.10e6	4.72e6	935.7	1936.2	NO	bb	bb	68.521
13C-1234-TCDD	25.700	0.000	3.021e5	3.787e5	1.000	0.798	0.770	1571	1173	4.68e6	5.80e6	2980.7	4943.9	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.031	2.747e5	3.452e5	1.103	0.796	0.770	1571	1173	4.16e6	5.29e6	2651.2	4510.1	NO	bb	bb	82.558
13C-12378-PeCDD	31.608	1.230	2.932e5	1.789e5	0.914	1.638	1.550	1177	1219	4.33e6	2.69e6	3678.2	2206.0	NO	bb	bb	75.862
13C-123478-HxCDD	36.087	0.987	3.117e5	2.425e5	0.933	1.285	1.240	1558	2261	5.07e6	3.95e6	3251.8	1744.9	NO	bd	bd	80.085
13C-123678-HxCDD	36.198	0.990	3.275e5	2.507e5	0.965	1.306	1.240	1558	2261	5.16e6	4.02e6	3313.2	1779.5	NO	db	db	80.794
13C-1234678-HpCDD	40.332	1.103	2.174e5	2.018e5	0.782	1.078	1.050	2412	2157	3.31e6	3.10e6	1372.5	1438.5	NO	bb	bb	72.271
13C-OCDD	45.083	1.233	3.843e5	4.222e5	0.788	0.910	0.890	1338	2200	4.71e6	5.20e6	3518.6	2361.9	NO	bb	bb	137.929
13C-123789-HxCDD	36.577	0.000	4.134e5	3.284e5	1.000	1.259	1.240	1558	2261	6.51e6	5.16e6	4175.6	2282.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	3.033e5		1.233			1002		4.51e6		4502.3			bb		36.116

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:05:34 Pacific Standard Time

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	1330	1505								
1289-TCDF	27.378	1.058	1.228e2	4.137e2	0.858	0.297	0.770	1330	1505	3.28e3	4.49e3	2.5	3.0	YES	bb	dd	0.070
13468-PECDF					1.013		1.550	1025	1390								
12389-PECDF					0.844		1.550	1827	1340								
123468-HXCDF	33.324	0.953	1.752e3	1.605e3	1.197	1.091	1.240	1102	1060	2.65e4	2.51e4	24.0	23.6	NO	bd	bd	0.468
1368-TCDD	23.659	0.893	2.559e3	3.077e3	1.084	0.832	0.770	1076	800	3.89e4	4.91e4	36.2	61.4	NO	bb	bd	0.838
1289-TCDD	27.122	1.023	1.841e2	2.488e2	0.975	0.740	0.770	1076	800	3.45e3	3.89e3	3.2	4.9	NO	bb	bb	0.072
12479-PECDD					1.837		1.550	1418	1077								
12389-PECDD					1.252		1.550	1418	1077								
124679-HXCDD	34.104	0.945	4.133e3	3.563e3	1.033	1.160	1.240	910	1683	6.10e4	5.20e4	67.0	30.9	NO	bb	bb	1.344
1234679-HPCDD	39.296	0.974	9.467e3	8.338e3	1.286	1.135	1.050	1385	1323	1.52e5	1.29e5	109.7	97.4	NO	bb	bd	3.302
Total-tetrafurans			5.141e4		0.933			1330		7.04e5							14.297
Total-penta1			1.667e4					1025		2.33e5							3.716
Total-pentafurans			8.487e3		0.866			1827		1.24e5							2.049
Total-hexafurans			1.941e4		1.208			1102		2.93e5							4.903
Total-heptafurans			1.359e4		1.185			1198		2.14e5							4.414
Total-Furans			1.173e5		1.067			1330		1.67e6							32.298
Total-tetradioxins			7.658e3		1.099			1076		1.18e5							2.495
Total-pentadioxins			6.882e3		1.392			1418		8.74e4							1.767
Total-hexadioxins			1.286e4		1.007			910		1.89e5							4.179
Total-heptadioxins			1.715e4		1.269			1385		2.69e5							6.248
Total-Dioxins			8.870e4		1.165			1076		1.21e6							36.092
Total-TEQ			2.060e5					1076		2.88e6							68.390
FUNCTION1 PFK			2.689e6					328703		3.19e7							
FUNCTION2 PFK			0.000e0					162996		0.00e0							
FUNCTION3 PFK			4.569e5					353847		5.95e6							0.000
FUNCTION4 PFK			1.444e6					215500		1.48e7							
FUNCTION5 PFK			0.000e0					158529		0.00e0							
FUNCTION1 HXCD...			2.038e4					796		3.21e5							0.000
FUNCTION1 HPCD...			8.674e2					766		1.54e4							0.000
FUNCTION2 HPCD...			3.109e3					951		4.90e4							0.000
FUNCTION3 OCDPE			4.434e2					884		9.16e3							0.000
FUNCTION4 NCDPE			6.079e3					1073		1.11e5							0.000
FUNCTION5 DCDPE			9.505e1					871		1.79e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:34 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin2301311H.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\2302011CIH.cdb 03 Feb 2023 10:33:40****ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.79	4.456e3	5.707e3	0.933	0.78	0.77	52.7	YES	NO	dd	dd	1.220
2	Total-tetrafurans	24.64	1.327e3	1.792e3	0.933	0.74	0.77	13.0	YES	NO	dd	dd	0.375
3	Total-tetrafurans	24.55	2.537e3	3.282e3	0.933	0.77	0.77	21.5	YES	NO	dd	dd	0.699
4	Total-tetrafurans	24.11	1.094e3	1.537e3	0.933	0.71	0.77	10.7	YES	NO	db	bb	0.316
5	Total-tetrafurans	23.92	7.278e3	1.007e4	0.933	0.72	0.77	54.5	YES	NO	bd	bb	2.084
6	Total-tetrafurans	23.63	2.123e3	2.807e3	0.933	0.76	0.77	23.6	YES	NO	dd	dd	0.592
7	Total-tetrafurans	23.42	3.125e3	4.173e3	0.933	0.75	0.77	22.3	YES	NO	dd	dd	0.876
8	Total-tetrafurans	23.22	5.533e3	7.822e3	0.933	0.71	0.77	63.9	YES	NO	bd	bd	1.604
9	Total-tetrafurans	22.65	1.502e3	1.926e3	0.933	0.78	0.77	20.6	YES	NO	bb	bb	0.412
10	Total-tetrafurans	26.94	2.594e3	3.395e3	0.933	0.76	0.77	29.9	YES	NO	bb	bb	0.719
11	Total-tetrafurans	26.29	7.862e3	9.972e3	0.933	0.79	0.77	93.4	YES	NO	db	dd	2.141
12	2378-TCDF	25.93	6.625e3	8.034e3	0.876	0.82	0.77	68.1	YES	NO	dd	bd	1.874
13	Total-tetrafurans	25.40	4.937e2	5.792e2	0.933	0.85	0.77	7.1	YES	NO	dd	dd	0.129
14	Total-tetrafurans	25.26	4.857e3	5.609e3	0.933	0.87	0.77	47.5	YES	NO	dd	bd	1.257

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.30	1.667e4	1.052e4		1.59	1.55	227.4	YES	NO	bb	bb	3.716

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.97	6.123e3	3.768e3	0.866	1.63	1.55	47.7	YES	NO	dd	dd	1.454
2	Total-pentafurans	29.67	2.364e3	1.688e3	0.866	1.40	1.55	20.2	YES	NO	dd	bb	0.596

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.98	1.922e3	1.557e3	1.229	1.23	1.24	23.2	YES	NO	bb	bb	0.481
2	123478-HxCDF	34.98	1.611e3	1.271e3	1.182	1.27	1.24	23.9	YES	NO	dd	bd	0.407
3	Total-hexa-furans	34.83	4.311e2	3.798e2	1.208	1.14	1.24	5.8	YES	NO	bd	bb	0.114
4	Total-hexa-furans	34.37	6.453e3	4.848e3	1.208	1.33	1.24	87.8	YES	NO	bb	bb	1.587
5	Total-hexa-furans	33.54	7.245e3	5.893e3	1.208	1.23	1.24	101.1	YES	NO	db	db	1.845
6	123468-HXCDF	33.32	1.752e3	1.605e3	1.197	1.09	1.24	24.0	YES	NO	bd	bd	0.468

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

## HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.09	7.670e2	8.141e2	1.165	0.94	1.05	9.8	YES	NO	bb	bb	0.295
2	Total-heptafurans	39.51	7.997e3	7.629e3	1.185	1.05	1.05	103.9	YES	NO	bb	bb	2.645
3	1234678-HpCDF	38.84	4.824e3	4.709e3	1.204	1.02	1.05	64.8	YES	NO	bb	bb	1.474

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.79	4.456e3	5.707e3	0.933	0.78	0.77	52.7	YES	NO	dd	dd	1.220
2	Total-tetrafurans	24.64	1.327e3	1.792e3	0.933	0.74	0.77	13.0	YES	NO	dd	dd	0.375
3	Total-tetrafurans	24.55	2.537e3	3.282e3	0.933	0.77	0.77	21.5	YES	NO	dd	dd	0.699
4	Total-tetrafurans	24.11	1.094e3	1.537e3	0.933	0.71	0.77	10.7	YES	NO	db	bb	0.316
5	Total-tetrafurans	23.92	7.278e3	1.007e4	0.933	0.72	0.77	54.5	YES	NO	bd	bb	2.084
6	Total-tetrafurans	23.63	2.123e3	2.807e3	0.933	0.76	0.77	23.6	YES	NO	dd	dd	0.592
7	Total-tetrafurans	23.42	3.125e3	4.173e3	0.933	0.75	0.77	22.3	YES	NO	dd	dd	0.876
8	Total-tetrafurans	23.22	5.533e3	7.822e3	0.933	0.71	0.77	63.9	YES	NO	bd	bd	1.604
9	Total-tetrafurans	22.65	1.502e3	1.926e3	0.933	0.78	0.77	20.6	YES	NO	bb	bb	0.412
10	Total-Furans	27.80	1.920e3	2.361e3	1.067	0.81	0.77	20.7	YES	NO	bb	db	0.449
11	Total-tetrafurans	26.94	2.594e3	3.395e3	0.933	0.76	0.77	29.9	YES	NO	bb	bb	0.719
12	Total-tetrafurans	26.29	7.862e3	9.972e3	0.933	0.79	0.77	93.4	YES	NO	db	dd	2.141
13	2378-TCDF	25.93	6.625e3	8.034e3	0.876	0.82	0.77	68.1	YES	NO	dd	bd	1.874
14	Total-tetrafurans	25.40	4.937e2	5.792e2	0.933	0.85	0.77	7.1	YES	NO	dd	dd	0.129
15	Total-tetrafurans	25.26	4.857e3	5.609e3	0.933	0.87	0.77	47.5	YES	NO	dd	bd	1.257
16	Total-pentafurans	28.97	6.123e3	3.768e3	0.866	1.63	1.55	47.7	YES	NO	dd	dd	1.454
17	Total-pentafurans	29.67	2.364e3	1.688e3	0.866	1.40	1.55	20.2	YES	NO	dd	bb	0.596
18	234678-HxCDF	35.98	1.922e3	1.557e3	1.229	1.23	1.24	23.2	YES	NO	bb	bb	0.481
19	123478-HxCDF	34.98	1.611e3	1.271e3	1.182	1.27	1.24	23.9	YES	NO	dd	bd	0.407
20	Total-hexafurans	34.83	4.311e2	3.798e2	1.208	1.14	1.24	5.8	YES	NO	bd	bb	0.114
21	Total-hexafurans	34.37	6.453e3	4.848e3	1.208	1.33	1.24	87.8	YES	NO	bb	bb	1.587
22	Total-hexafurans	33.54	7.245e3	5.893e3	1.208	1.23	1.24	101.1	YES	NO	db	db	1.845
23	123468-HXCDF	33.32	1.752e3	1.605e3	1.197	1.09	1.24	24.0	YES	NO	bd	bd	0.468
24	1234789-HpCDF	41.09	7.670e2	8.141e2	1.165	0.94	1.05	9.8	YES	NO	bb	bb	0.295
25	Total-heptafurans	39.51	7.997e3	7.629e3	1.185	1.05	1.05	103.9	YES	NO	bb	bb	2.645
26	1234678-HpCDF	38.84	4.824e3	4.709e3	1.204	1.02	1.05	64.8	YES	NO	bb	bb	1.474
27	OCDF	45.35	5.827e3	5.984e3	1.186	0.97	0.89	74.7	YES	NO	bb	bb	2.469
28	Total-penta1	27.30	1.667e4	1.052e4		1.59	1.55	227.4	YES	NO	bb	bb	3.716

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.66	2.559e3	3.077e3	1.084	0.83	0.77	36.2	YES	NO	bb	bd	0.838
2	Total-tetradiioxins	25.70	4.879e2	5.581e2	1.099	0.87	0.77	7.2	YES	NO	bd	bd	0.154
3	Total-tetradiioxins	25.14	1.070e3	1.448e3	1.099	0.74	0.77	13.8	YES	NO	bb	bb	0.370
4	Total-tetradiioxins	24.85	1.061e3	1.218e3	1.099	0.87	0.77	15.2	YES	NO	bd	db	0.335
5	Total-tetradiioxins	24.13	3.540e2	4.334e2	1.099	0.82	0.77	3.5	YES	NO	db	db	0.116
6	Total-tetradiioxins	23.93	1.942e3	2.220e3	1.099	0.87	0.77	30.4	YES	NO	bd	dd	0.611
7	1289-TCDD	27.12	1.841e2	2.488e2	0.975	0.74	0.77	3.2	YES	NO	bb	bb	0.072

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadiioxins	30.25	7.160e2	5.195e2	1.392	1.38	1.55	8.0	YES	NO	bb	bb	0.188
2	Total-pentadiioxins	30.04	1.974e3	1.359e3	1.392	1.45	1.55	22.5	YES	NO	bb	bb	0.507
3	Total-pentadiioxins	29.41	7.109e2	5.019e2	1.392	1.42	1.55	7.8	YES	NO	bb	bb	0.185
4	Total-pentadiioxins	28.96	3.481e3	2.349e3	1.392	1.48	1.55	23.3	YES	NO	bb	db	0.887

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	1.198e3	9.843e2	0.985	1.22	1.24	18.4	YES	NO	bb	bb	0.391
2	123678-HxCDD	36.22	1.080e3	1.016e3	1.021	1.06	1.24	17.3	YES	NO	dd	db	0.355
3	123478-HxCDD	36.10	6.223e2	5.651e2	0.987	1.10	1.24	9.1	YES	NO	bd	bd	0.217
4	Total-hexadiioxins	35.23	3.367e3	2.709e3	1.007	1.24	1.24	45.4	YES	NO	bb	bb	1.066
5	Total-hexadiioxins	34.87	2.461e3	2.126e3	1.007	1.16	1.24	50.4	YES	NO	bb	bb	0.805
6	124679-HXCDD	34.10	4.133e3	3.563e3	1.033	1.16	1.24	67.0	YES	NO	bb	bb	1.344

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.34	7.681e3	7.788e3	1.253	0.99	1.05	84.6	YES	NO	bd	bb	2.946
2	1234679-HPCDD	39.30	9.467e3	8.338e3	1.286	1.14	1.05	109.7	YES	NO	bb	bd	3.302

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.66	2.559e3	3.077e3	1.084	0.83	0.77	36.2	YES	NO	bb	bd	0.838
2	Total-tetradoxins	25.70	4.879e2	5.581e2	1.099	0.87	0.77	7.2	YES	NO	bd	bd	0.154
3	Total-tetradoxins	25.14	1.070e3	1.448e3	1.099	0.74	0.77	13.8	YES	NO	bb	bb	0.370
4	Total-tetradoxins	24.85	1.061e3	1.218e3	1.099	0.87	0.77	15.2	YES	NO	bd	db	0.335
5	Total-tetradoxins	24.13	3.540e2	4.334e2	1.099	0.82	0.77	3.5	YES	NO	db	db	0.116
6	Total-tetradoxins	23.93	1.942e3	2.220e3	1.099	0.87	0.77	30.4	YES	NO	bd	dd	0.611
7	1289-TCDD	27.12	1.841e2	2.488e2	0.975	0.74	0.77	3.2	YES	NO	bb	bb	0.072
8	Total-pentadoxins	30.25	7.160e2	5.195e2	1.392	1.38	1.55	8.0	YES	NO	bb	bb	0.188
9	Total-pentadoxins	30.04	1.974e3	1.359e3	1.392	1.45	1.55	22.5	YES	NO	bb	bb	0.507
10	Total-pentadoxins	29.41	7.109e2	5.019e2	1.392	1.42	1.55	7.8	YES	NO	bb	bb	0.185
11	Total-pentadoxins	28.96	3.481e3	2.349e3	1.392	1.48	1.55	23.3	YES	NO	bb	db	0.887
12	123789-HxCDD	36.61	1.198e3	9.843e2	0.985	1.22	1.24	18.4	YES	NO	bb	bb	0.391
13	123678-HxCDD	36.22	1.080e3	1.016e3	1.021	1.06	1.24	17.3	YES	NO	dd	db	0.355
14	123478-HxCDD	36.10	6.223e2	5.651e2	0.987	1.10	1.24	9.1	YES	NO	bd	bd	0.217
15	Total-hexadoxins	35.23	3.367e3	2.709e3	1.007	1.24	1.24	45.4	YES	NO	bb	bb	1.066
16	Total-hexadoxins	34.87	2.461e3	2.126e3	1.007	1.16	1.24	50.4	YES	NO	bb	bb	0.805
17	124679-HXCDD	34.10	4.133e3	3.563e3	1.033	1.16	1.24	67.0	YES	NO	bb	bb	1.344
18	1234678-HpCDD	40.34	7.681e3	7.788e3	1.253	0.99	1.05	84.6	YES	NO	bd	bb	2.946
19	1234679-HPCDD	39.30	9.467e3	8.338e3	1.286	1.14	1.05	109.7	YES	NO	bb	bd	3.302
20	OCDD	45.10	4.414e4	5.103e4	1.103	0.87	0.89	545.1	YES	NO	bb	bd	21.404

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.79	4.456e3	5.707e3	0.933	0.78	0.77	52.7	YES	NO	dd	dd	1.220
2	Total-tetrafurans	24.64	1.327e3	1.792e3	0.933	0.74	0.77	13.0	YES	NO	dd	dd	0.375
3	Total-tetrafurans	24.55	2.537e3	3.282e3	0.933	0.77	0.77	21.5	YES	NO	dd	dd	0.699
4	Total-tetrafurans	24.11	1.094e3	1.537e3	0.933	0.71	0.77	10.7	YES	NO	db	bb	0.316
5	Total-tetrafurans	23.92	7.278e3	1.007e4	0.933	0.72	0.77	54.5	YES	NO	bd	bb	2.084
6	Total-tetrafurans	23.63	2.123e3	2.807e3	0.933	0.76	0.77	23.6	YES	NO	dd	dd	0.592
7	Total-tetrafurans	23.42	3.125e3	4.173e3	0.933	0.75	0.77	22.3	YES	NO	dd	dd	0.876
8	Total-tetrafurans	23.22	5.533e3	7.822e3	0.933	0.71	0.77	63.9	YES	NO	bd	bd	1.604
9	Total-tetrafurans	22.65	1.502e3	1.926e3	0.933	0.78	0.77	20.6	YES	NO	bb	bb	0.412
10	Total-Furans	27.80	1.920e3	2.361e3	1.067	0.81	0.77	20.7	YES	NO	bb	db	0.449
11	Total-tetrafurans	26.94	2.594e3	3.395e3	0.933	0.76	0.77	29.9	YES	NO	bb	bb	0.719
12	Total-tetrafurans	26.29	7.862e3	9.972e3	0.933	0.79	0.77	93.4	YES	NO	db	dd	2.141
13	2378-TCDF	25.93	6.625e3	8.034e3	0.876	0.82	0.77	68.1	YES	NO	dd	bd	1.874
14	Total-tetrafurans	25.40	4.937e2	5.792e2	0.933	0.85	0.77	7.1	YES	NO	dd	dd	0.129
15	Total-tetrafurans	25.26	4.857e3	5.609e3	0.933	0.87	0.77	47.5	YES	NO	dd	bd	1.257
16	Total-pentafurans	28.97	6.123e3	3.768e3	0.866	1.63	1.55	47.7	YES	NO	dd	dd	1.454
17	Total-pentafurans	29.67	2.364e3	1.688e3	0.866	1.40	1.55	20.2	YES	NO	dd	bb	0.596
18	234678-HxCDF	35.98	1.922e3	1.557e3	1.229	1.23	1.24	23.2	YES	NO	bb	bb	0.481
19	123478-HxCDF	34.98	1.611e3	1.271e3	1.182	1.27	1.24	23.9	YES	NO	dd	bd	0.407
20	Total-hexafurans	34.83	4.311e2	3.798e2	1.208	1.14	1.24	5.8	YES	NO	bd	bb	0.114
21	Total-hexafurans	34.37	6.453e3	4.848e3	1.208	1.33	1.24	87.8	YES	NO	bb	bb	1.587
22	Total-hexafurans	33.54	7.245e3	5.893e3	1.208	1.23	1.24	101.1	YES	NO	db	db	1.845
23	123468-HXCDF	33.32	1.752e3	1.605e3	1.197	1.09	1.24	24.0	YES	NO	bd	bd	0.468
24	1234789-HpCDF	41.09	7.670e2	8.141e2	1.165	0.94	1.05	9.8	YES	NO	bb	bb	0.295
25	Total-heptafurans	39.51	7.997e3	7.629e3	1.185	1.05	1.05	103.9	YES	NO	bb	bb	2.645
26	1234678-HpCDF	38.84	4.824e3	4.709e3	1.204	1.02	1.05	64.8	YES	NO	bb	bb	1.474
27	OCDF	45.35	5.827e3	5.984e3	1.186	0.97	0.89	74.7	YES	NO	bb	bb	2.469
28	Total-penta1	27.30	1.667e4	1.052e4		1.59	1.55	227.4	YES	NO	bb	bb	3.716
29	1368-TCDD	23.66	2.559e3	3.077e3	1.084	0.83	0.77	36.2	YES	NO	bb	bd	0.838
30	Total-tetradioxins	25.70	4.879e2	5.581e2	1.099	0.87	0.77	7.2	YES	NO	bd	bd	0.154
31	Total-tetradioxins	25.14	1.070e3	1.448e3	1.099	0.74	0.77	13.8	YES	NO	bb	bb	0.370
32	Total-tetradioxins	24.85	1.061e3	1.218e3	1.099	0.87	0.77	15.2	YES	NO	bd	db	0.335
33	Total-tetradioxins	24.13	3.540e2	4.334e2	1.099	0.82	0.77	3.5	YES	NO	db	db	0.116
34	Total-tetradioxins	23.93	1.942e3	2.220e3	1.099	0.87	0.77	30.4	YES	NO	bd	dd	0.611
35	1289-TCDD	27.12	1.841e2	2.488e2	0.975	0.74	0.77	3.2	YES	NO	bb	bb	0.072
36	Total-pentadioxins	30.25	7.160e2	5.195e2	1.392	1.38	1.55	8.0	YES	NO	bb	bb	0.188
37	Total-pentadioxins	30.04	1.974e3	1.359e3	1.392	1.45	1.55	22.5	YES	NO	bb	bb	0.507

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:34 Pacific Standard Time

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-pentadioxins	29.41	7.109e2	5.019e2	1.392	1.42	1.55	7.8	YES	NO	bb	bb	0.185
39	Total-pentadioxins	28.96	3.481e3	2.349e3	1.392	1.48	1.55	23.3	YES	NO	bb	db	0.887
40	123789-HxCDD	36.61	1.198e3	9.843e2	0.985	1.22	1.24	18.4	YES	NO	bb	bb	0.391
41	123678-HxCDD	36.22	1.080e3	1.016e3	1.021	1.06	1.24	17.3	YES	NO	dd	db	0.355
42	123478-HxCDD	36.10	6.223e2	5.651e2	0.987	1.10	1.24	9.1	YES	NO	bd	bd	0.217
43	Total-hexadioxins	35.23	3.367e3	2.709e3	1.007	1.24	1.24	45.4	YES	NO	bb	bb	1.066
44	Total-hexadioxins	34.87	2.461e3	2.126e3	1.007	1.16	1.24	50.4	YES	NO	bb	bb	0.805
45	124679-HXCDD	34.10	4.133e3	3.563e3	1.033	1.16	1.24	67.0	YES	NO	bb	bb	1.344
46	1234678-HpCDD	40.34	7.681e3	7.788e3	1.253	0.99	1.05	84.6	YES	NO	bd	bb	2.946
47	1234679-HPCDD	39.30	9.467e3	8.338e3	1.286	1.14	1.05	109.7	YES	NO	bb	bd	3.302
48	OCDD	45.10	4.414e4	5.103e4	1.103	0.87	0.89	545.1	YES	NO	bb	bd	21.404



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:34 Pacific Standard Time

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.04	9.991e3					0.8	NO		bb		
2	FUNCTION1 PFK	21.83	3.660e3					0.5	NO		bb		
3	FUNCTION1 PFK	21.50	3.142e3					0.6	NO		bb		
4	FUNCTION1 PFK	21.36	2.081e4					1.6	NO		db		
5	FUNCTION1 PFK	21.30	2.204e4					1.5	NO		dd		
6	FUNCTION1 PFK	21.18	4.732e4					2.2	NO		bd		
7	FUNCTION1 PFK	25.40	1.866e4					1.5	NO		bd		
8	FUNCTION1 PFK	25.13	9.093e3					1.0	NO		bb		
9	FUNCTION1 PFK	25.00	3.358e3					0.6	NO		bb		
10	FUNCTION1 PFK	24.81	8.488e3					0.7	NO		bb		
11	FUNCTION1 PFK	24.67	5.029e3					0.5	NO		bb		
12	FUNCTION1 PFK	24.17	1.647e3					0.3	NO		bb		
13	FUNCTION1 PFK	23.99	2.549e4					1.4	NO		db		
14	FUNCTION1 PFK	23.83	3.069e4					1.1	NO		bd		
15	FUNCTION1 PFK	23.52	2.017e4					1.3	NO		db		
16	FUNCTION1 PFK	23.37	3.985e4					1.6	NO		bd		
17	FUNCTION1 PFK	23.24	4.727e3					0.6	NO		bb		
18	FUNCTION1 PFK	23.10	1.215e4					1.1	NO		bb		
19	FUNCTION1 PFK	22.89	4.734e4					1.9	NO		db		
20	FUNCTION1 PFK	22.80	3.374e4					1.4	NO		bd		
21	FUNCTION1 PFK	22.66	1.134e4					1.0	NO		bb		
22	FUNCTION1 PFK	22.10	1.804e3					0.4	NO		bb		
23	FUNCTION1 PFK	27.26	3.848e4					2.3	NO		dd		
24	FUNCTION1 PFK	27.20	2.153e4					1.5	NO		bd		
25	FUNCTION1 PFK	26.96	1.051e4					1.1	NO		bb		
26	FUNCTION1 PFK	26.85	1.856e4					1.5	NO		bb		
27	FUNCTION1 PFK	26.79	3.309e3					0.6	NO		db		
28	FUNCTION1 PFK	26.70	2.247e4					1.1	NO		bd		
29	FUNCTION1 PFK	26.46	3.194e4					1.5	NO		db		
30	FUNCTION1 PFK	26.40	3.248e4					1.8	NO		bd		
31	FUNCTION1 PFK	26.26	2.442e4					1.3	NO		db		
32	FUNCTION1 PFK	26.20	4.268e3					0.5	NO		bd		
33	FUNCTION1 PFK	25.91	8.032e3					0.8	NO		bb		
34	FUNCTION1 PFK	25.79	5.600e3					0.7	NO		bb		
35	FUNCTION1 PFK	25.73	8.945e3					0.9	NO		bb		
36	FUNCTION1 PFK	25.67	9.702e3					0.9	NO		bb		
37	FUNCTION1 PFK	25.53	1.365e4					1.2	NO		bb		

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:05:34 Pacific Standard Time

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	25.46	3.693e3					0.5	NO		db		
39	FUNCTION1 PFK	28.10	1.916e5					6.6	YES		db		
40	FUNCTION1 PFK	28.06	6.423e5					7.2	YES		bd		
41	FUNCTION1 PFK	27.74	5.536e5					11.4	YES		db		
42	FUNCTION1 PFK	27.59	1.707e5					9.1	YES		dd		
43	FUNCTION1 PFK	27.53	1.830e5					7.9	YES		dd		
44	FUNCTION1 PFK	27.47	9.796e4					7.0	YES		dd		
45	FUNCTION1 PFK	27.41	2.115e5					6.1	YES		dd		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.52	1.803e4					1.9	NO		db		0.000
2	FUNCTION3 PFK	36.49	1.797e4					1.8	NO		bd		0.000
3	FUNCTION3 PFK	35.81	3.680e4					1.5	NO		bb		0.000
4	FUNCTION3 PFK	34.89	2.107e3					0.5	NO		bb		0.000
5	FUNCTION3 PFK	34.85	1.327e4					1.1	NO		bb		0.000
6	FUNCTION3 PFK	33.67	2.269e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	33.44	1.010e4					1.3	NO		bb		0.000
8	FUNCTION3 PFK	37.45	2.520e5					4.4	YES		bb		0.000
9	FUNCTION3 PFK	37.21	9.313e4					2.6	NO		bb		0.000
10	FUNCTION3 PFK	36.64	1.126e4					1.1	NO		bb		0.000

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:34 Pacific Standard Time

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

## PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.66	5.116e3					0.3	NO		bb		
2	FUNCTION4 PFK	39.53	1.560e3					0.4	NO		bb		
3	FUNCTION4 PFK	39.38	1.355e4					1.8	NO		db		
4	FUNCTION4 PFK	39.34	4.533e4					2.7	NO		bd		
5	FUNCTION4 PFK	39.15	1.001e5					4.3	YES		db		
6	FUNCTION4 PFK	39.05	2.720e4					3.4	YES		dd		
7	FUNCTION4 PFK	39.02	7.355e4					3.2	YES		dd		
8	FUNCTION4 PFK	38.81	1.434e4					1.5	NO		dd		
9	FUNCTION4 PFK	38.75	9.997e3					1.0	NO		bd		
10	FUNCTION4 PFK	38.54	1.120e5					4.6	YES		bb		
11	FUNCTION4 PFK	38.34	2.258e5					8.0	YES		db		
12	FUNCTION4 PFK	38.21	4.236e5					9.0	YES		bd		
13	FUNCTION4 PFK	42.24	7.330e3					1.5	NO		bd		
14	FUNCTION4 PFK	41.80	4.748e3					0.9	NO		bb		
15	FUNCTION4 PFK	41.68	2.513e4					1.4	NO		bb		
16	FUNCTION4 PFK	41.57	9.870e2					0.4	NO		bb		
17	FUNCTION4 PFK	41.50	3.692e3					0.6	NO		bb		
18	FUNCTION4 PFK	41.46	3.267e3					0.7	NO		bb		
19	FUNCTION4 PFK	41.22	3.187e3					0.7	NO		bb		
20	FUNCTION4 PFK	41.17	3.038e4					2.3	NO		bb		
21	FUNCTION4 PFK	41.07	5.263e3					1.0	NO		bb		
22	FUNCTION4 PFK	40.96	1.493e4					1.0	NO		bb		
23	FUNCTION4 PFK	40.80	1.177e4					1.3	NO		bb		
24	FUNCTION4 PFK	40.68	1.695e3					0.7	NO		bb		
25	FUNCTION4 PFK	40.60	6.906e3					1.0	NO		bb		
26	FUNCTION4 PFK	40.12	3.151e4					1.8	NO		db		
27	FUNCTION4 PFK	40.04	9.705e3					1.4	NO		bd		
28	FUNCTION4 PFK	39.94	1.707e5					5.4	YES		bb		
29	FUNCTION4 PFK	42.85	6.575e3					0.8	NO		bb		
30	FUNCTION4 PFK	42.68	1.585e4					0.5	NO		bb		
31	FUNCTION4 PFK	42.49	1.153e4					1.5	NO		db		
32	FUNCTION4 PFK	42.46	1.321e4					1.7	NO		bd		
33	FUNCTION4 PFK	42.27	1.393e4					1.6	NO		db		

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

## PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

## ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.80	1.049e3					19.8	YES		bb		0.000
2	FUNCTION1 HXCD...	26.94	2.020e3					39.5	YES		bb		0.000
3	FUNCTION1 HXCD...	26.27	6.357e3					121.2	YES		bb		0.000
4	FUNCTION1 HXCD...	26.06	2.135e3					43.5	YES		db		0.000
5	FUNCTION1 HXCD...	25.91	2.909e3					55.5	YES		bd		0.000
6	FUNCTION1 HXCD...	25.59	1.141e2					2.9	NO		bb		0.000
7	FUNCTION1 HXCD...	25.26	2.239e3					47.6	YES		bb		0.000
8	FUNCTION1 HXCD...	25.07	1.000e2					2.9	NO		bb		0.000
9	FUNCTION1 HXCD...	23.92	3.456e3					71.0	YES		bb		0.000

## ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.74	7.391e1					1.7	NO		bb		0.000
2	FUNCTION1 HPCD...	26.59	7.792e1					2.4	NO		bb		0.000
3	FUNCTION1 HPCD...	25.53	9.665e1					2.6	NO		db		0.000
4	FUNCTION1 HPCD...	25.44	8.147e1					1.3	NO		bd		0.000
5	FUNCTION1 HPCD...	24.88	1.041e2					2.0	NO		bb		0.000
6	FUNCTION1 HPCD...	23.28	1.011e2					3.4	YES		bb		0.000
7	FUNCTION1 HPCD...	22.54	1.044e2					2.1	NO		db		0.000
8	FUNCTION1 HPCD...	22.45	7.622e1					1.4	NO		bd		0.000
9	FUNCTION1 HPCD...	22.21	7.558e1					1.5	NO		bb		0.000
10	FUNCTION1 HPCD...	21.42	7.603e1					1.7	NO		bb		0.000

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.35	1.403e3					20.4	YES		bb		0.000
2	FUNCTION2 HPCD...	31.27	1.428e2					3.2	YES		bb		0.000
3	FUNCTION2 HPCD...	29.10	1.563e3					27.9	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:34 Pacific Standard Time

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.99	8.918e1					1.7	NO		bb		0.000
2	FUNCTION3 OCDPE	36.25	8.900e1					2.4	NO		bb		0.000
3	FUNCTION3 OCDPE	34.88	1.797e2					4.8	YES		bb		0.000
4	FUNCTION3 OCDPE	34.72	8.554e1					1.6	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.95	1.216e2					2.2	NO		bb		0.000
2	FUNCTION4 NCDPE	38.50	5.958e3					101.5	YES		bb		0.000

**ETHERS6**

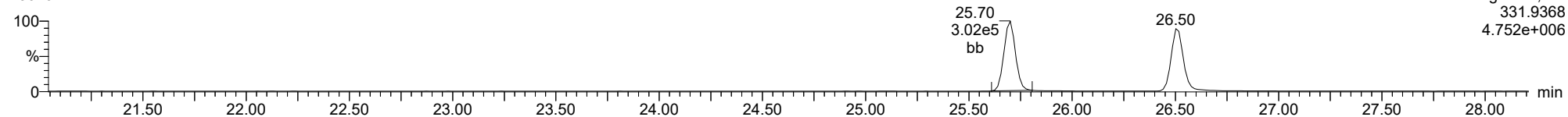
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.02	9.505e1					2.1	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

**13C-1234-TCDD**

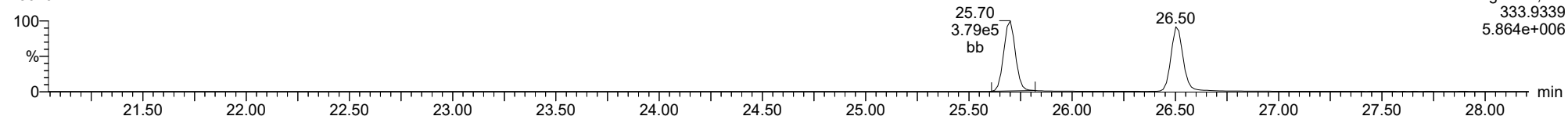
23020124



F1:Voltage SIR,EI+  
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4.752e+006

**13C-1234-TCDD**

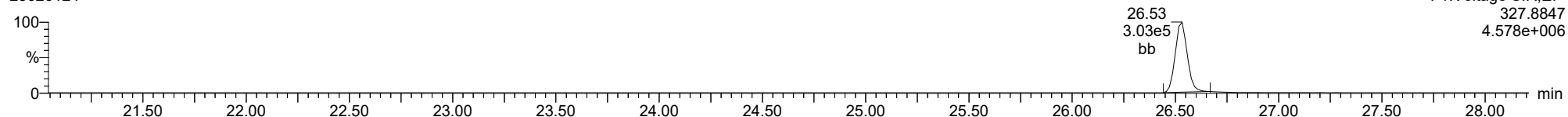
23020124



F1:Voltage SIR,EI+  
333.9339  
5.864e+006

**37CL-2378-TCDD**

23020124

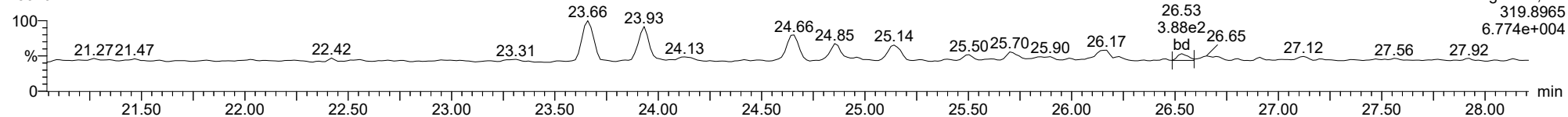


F1:Voltage SIR,EI+  
327.8847  
4.578e+006

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

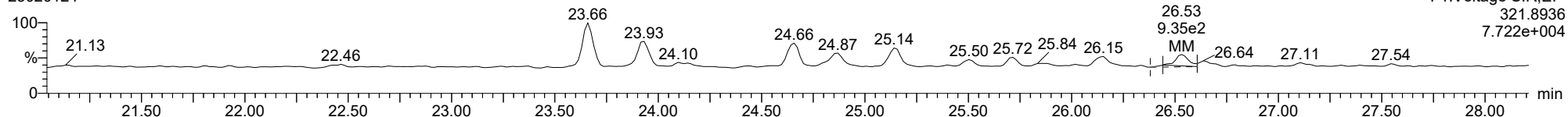
**2378-TCDD**

23020124



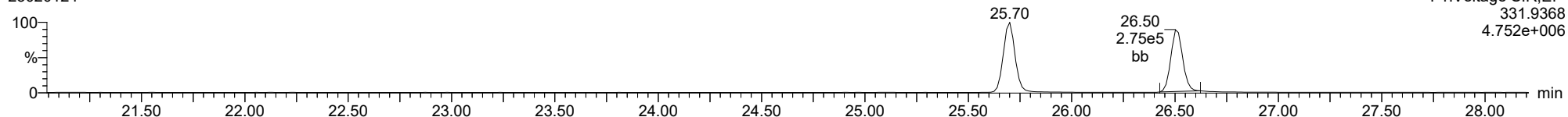
**2378-TCDD**

23020124



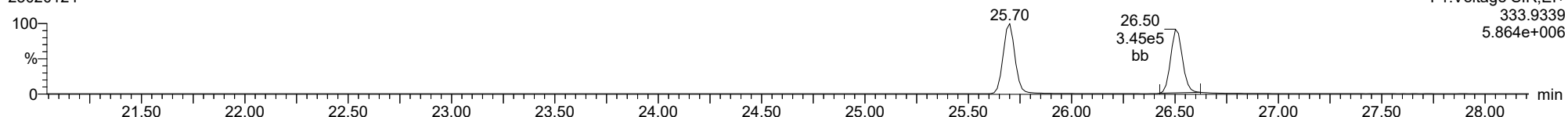
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23020124



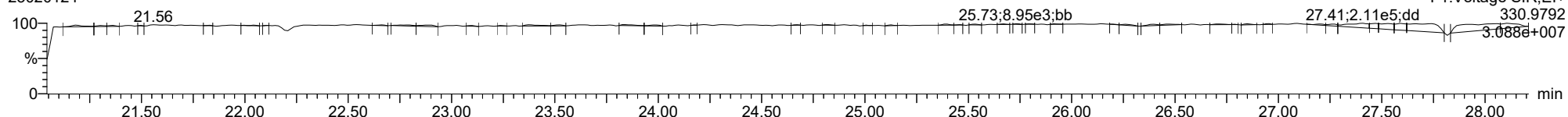
**13C-2378-TCDD**

23020124



**FUNCTION1 PFK**

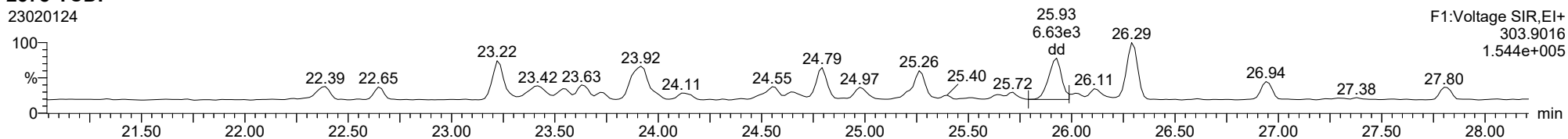
23020124



ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

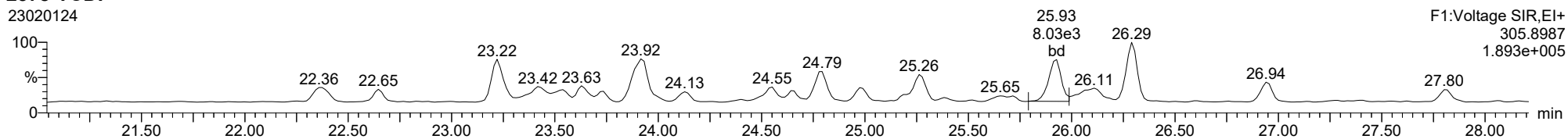
**2378-TCDF**

23020124



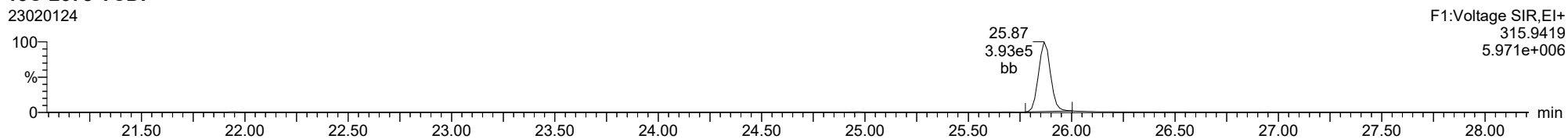
**2378-TCDF**

23020124



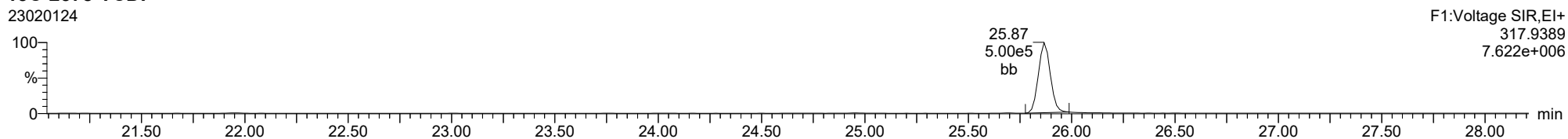
**13C-2378-TCDF**

23020124



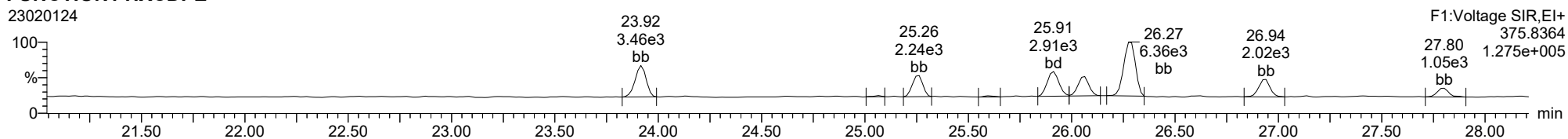
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23020124



**FUNCTION1 HXCDPE**

23020124

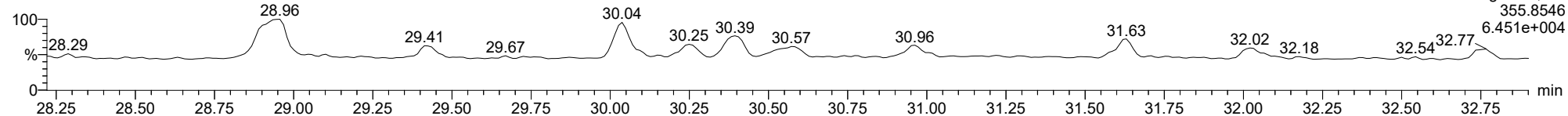




ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

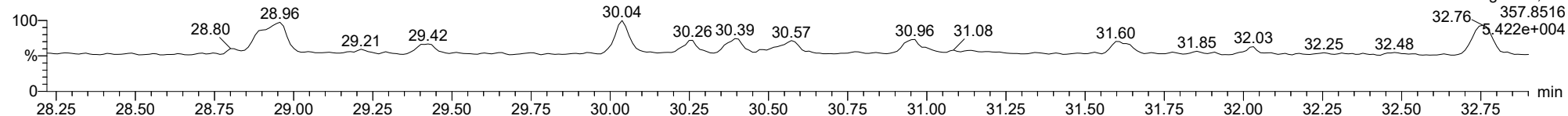
**12378-PeCDD**

23020124



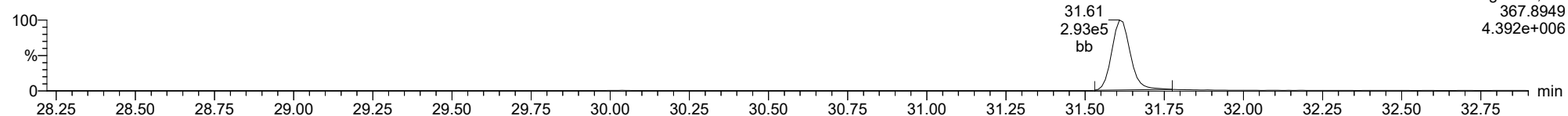
**12378-PeCDD**

23020124



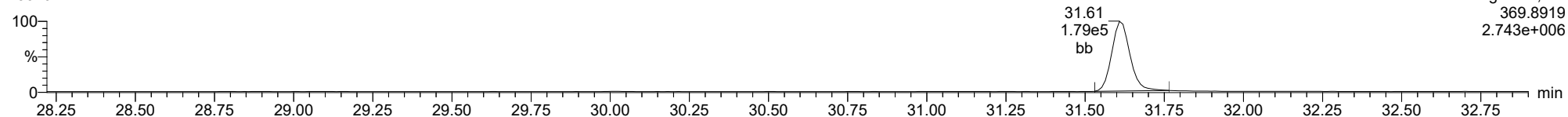
**13C-12378-PeCDD**

23020124



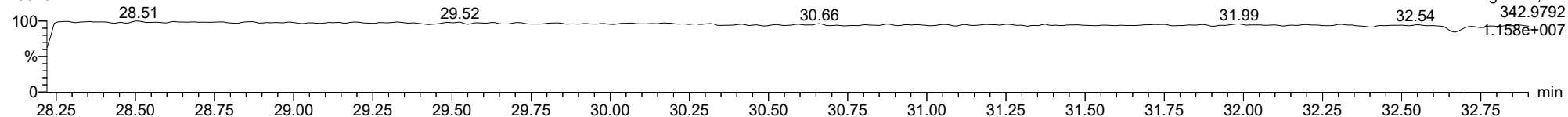
**13C-12378-PeCDD**

23020124



**FUNCTION2 PFK**

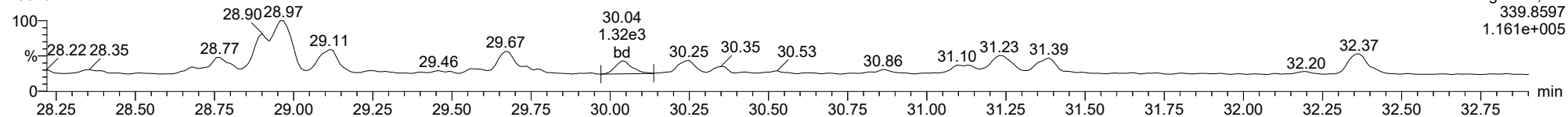
23020124



ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

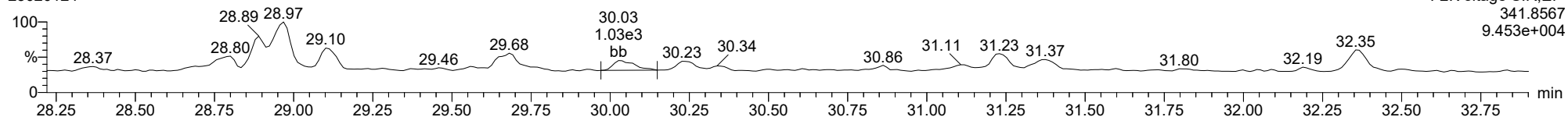
12378-PeCDF

23020124



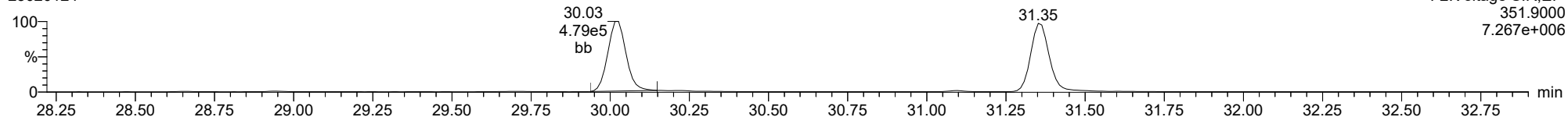
12378-PeCDF

23020124



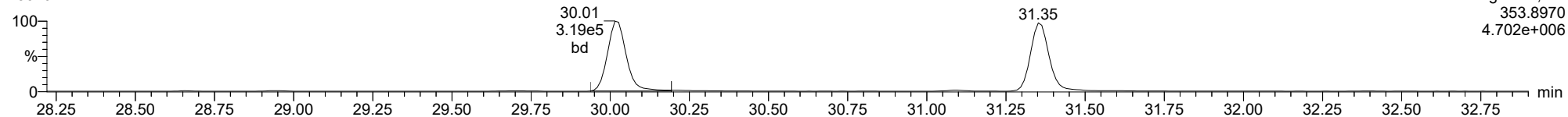
13C-12378-PeCDF

23020124



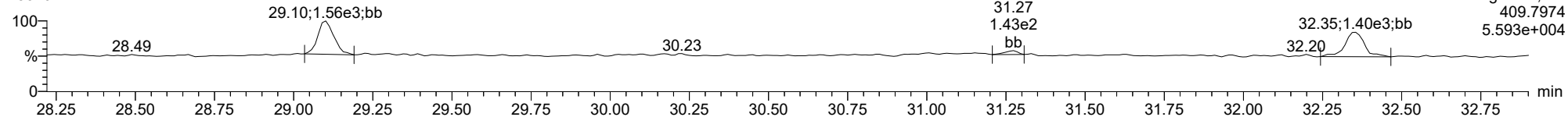
13C-12378-PeCDF

23020124



FUNCTION2 HPCDPE

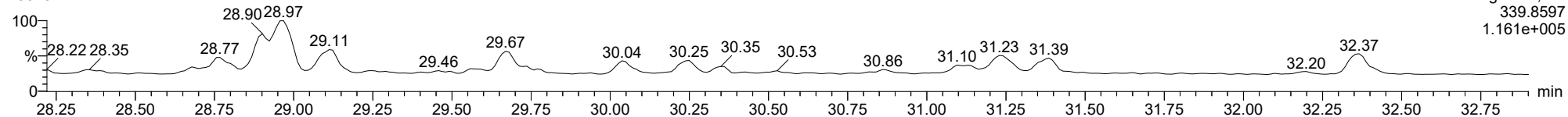
23020124



ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

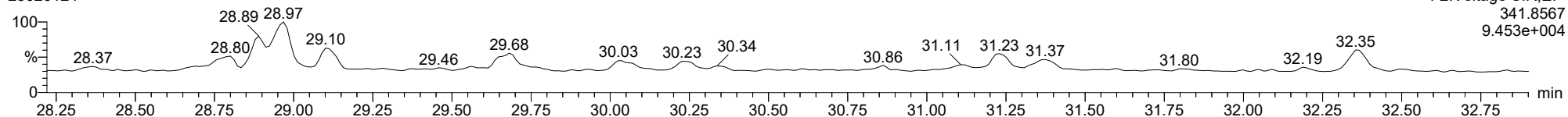
**23478-PeCDF**

23020124



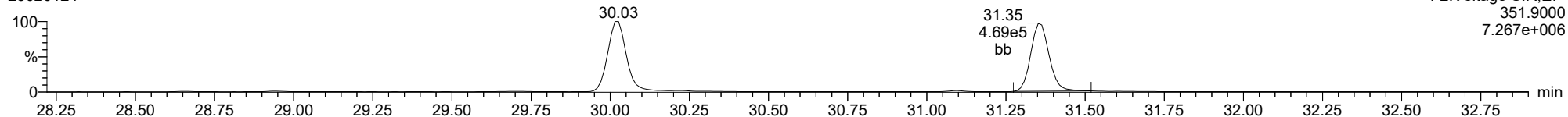
**23478-PeCDF**

23020124



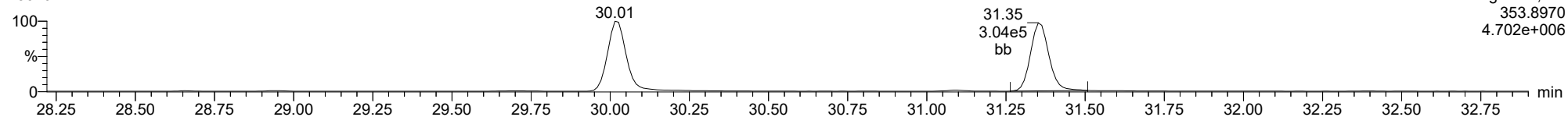
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23020124



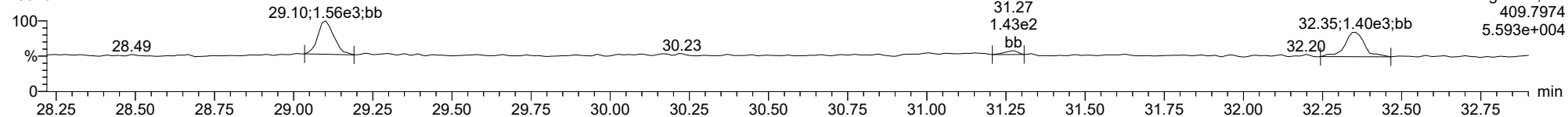
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23020124



**FUNCTION2 HPCDPE**

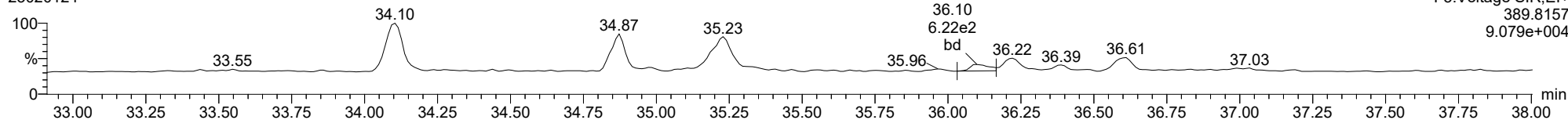
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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

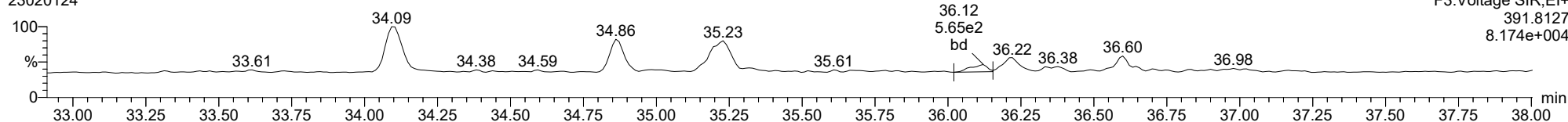
**123478-HxCDD**

23020124



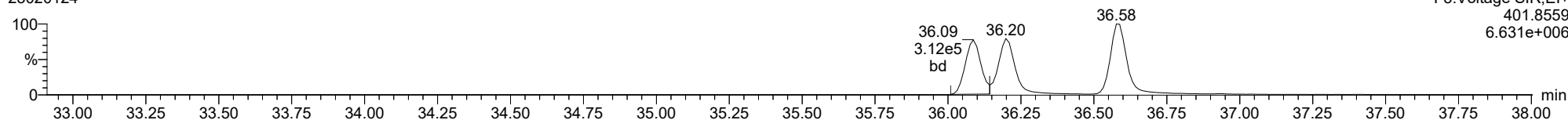
**123478-HxCDD**

23020124



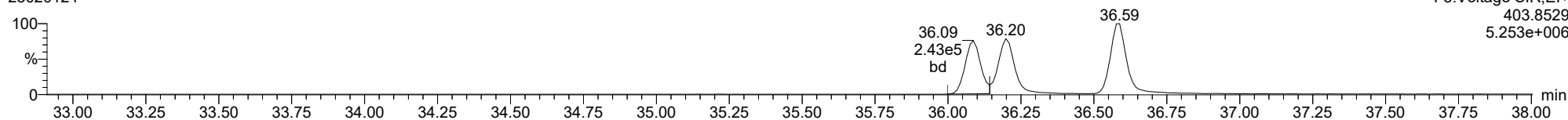
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23020124



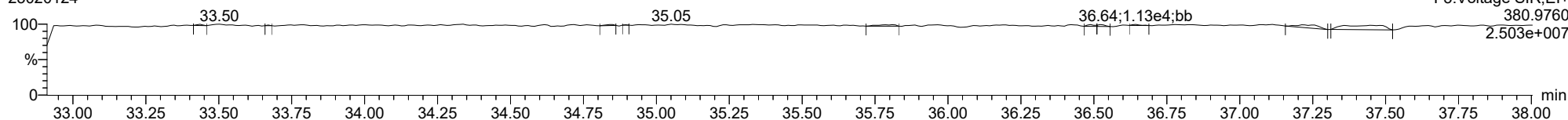
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23020124



**FUNCTION3 PFK**

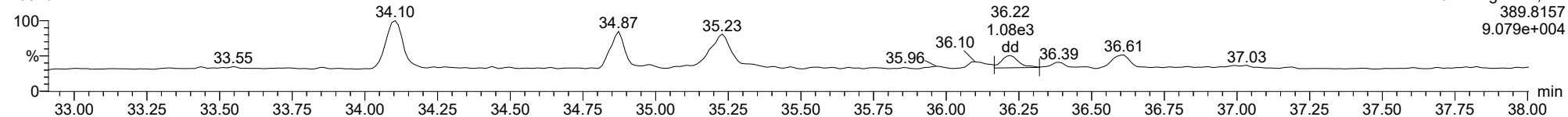
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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

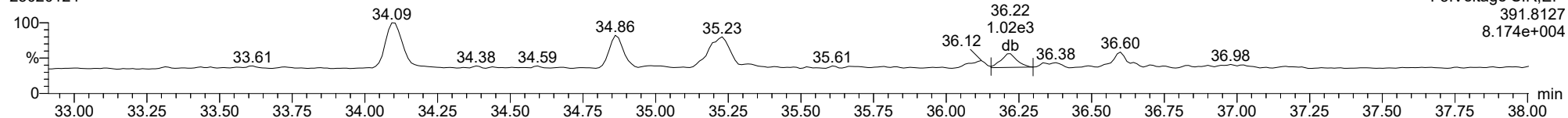
**123678-HxCDD**

23020124



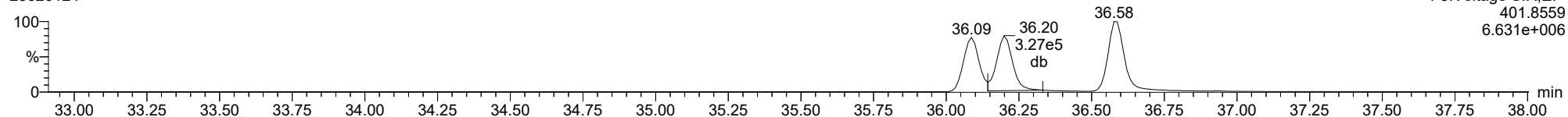
**123678-HxCDD**

23020124



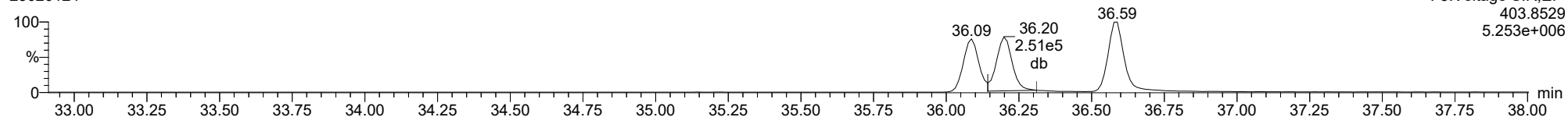
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23020124



**13C-123678-HxCDD**

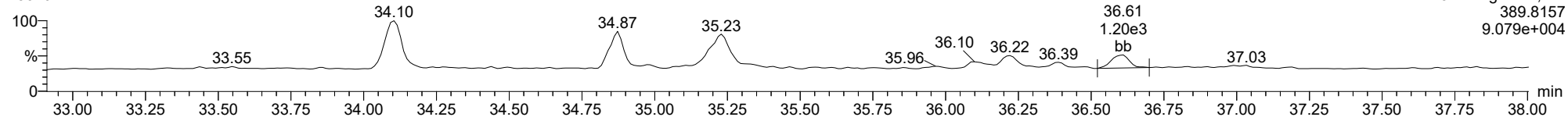
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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

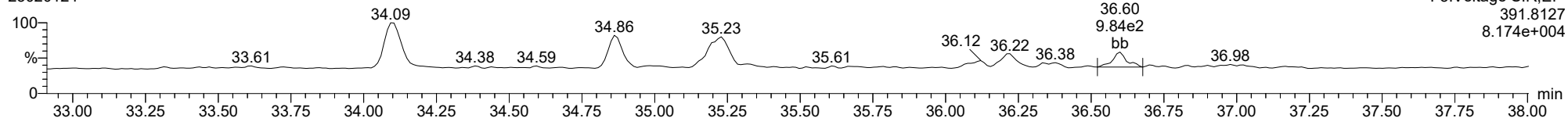
**123789-HxCDD**

23020124



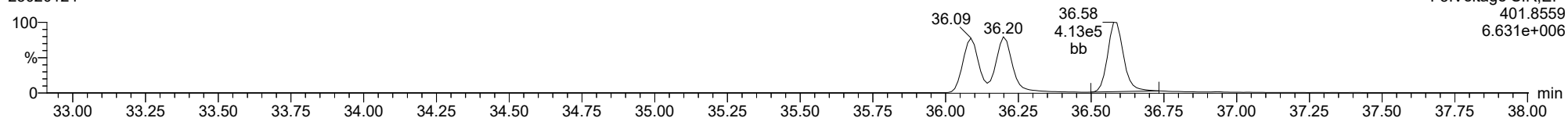
**123789-HxCDD**

23020124



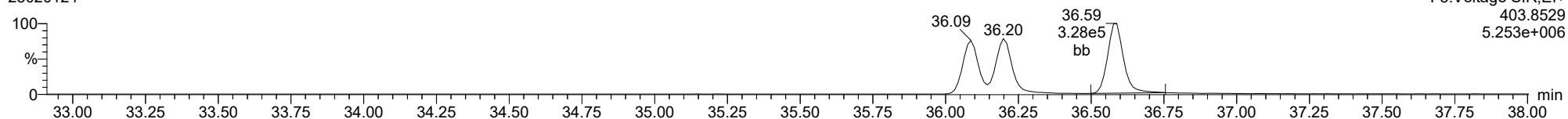
**13C-123789-HxCDD**

23020124



**13C-123789-HxCDD**

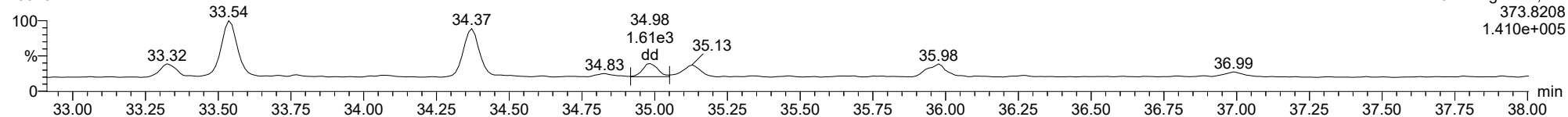
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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

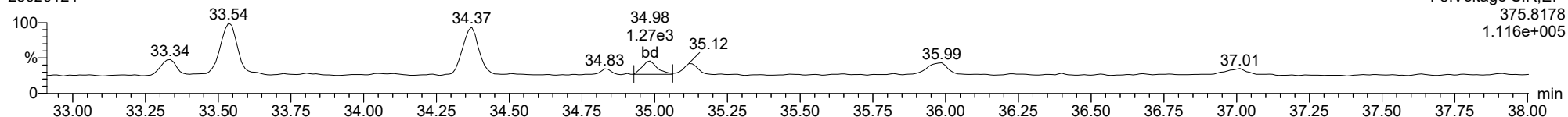
123478-HxCDF

23020124



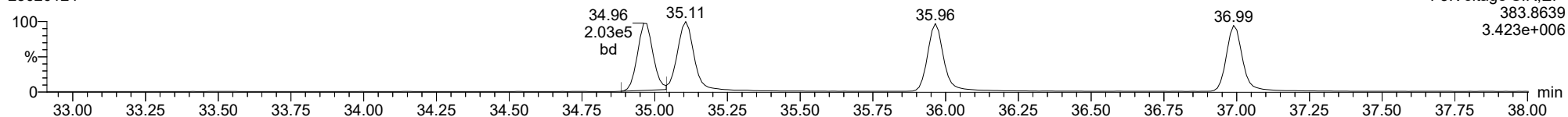
123478-HxCDF

23020124



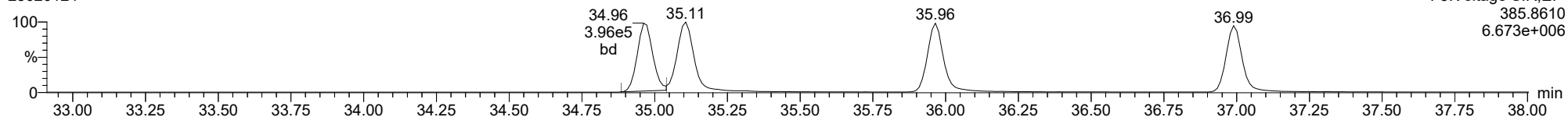
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23020124



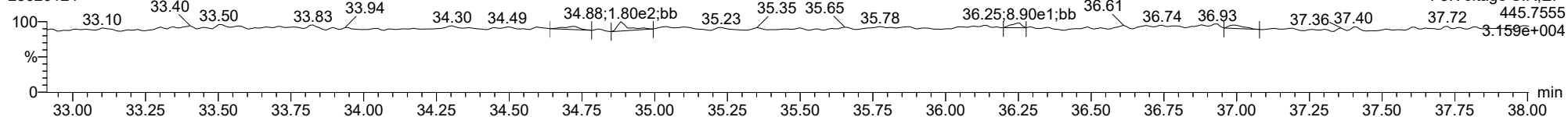
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23020124



FUNCTION3 OCDPE

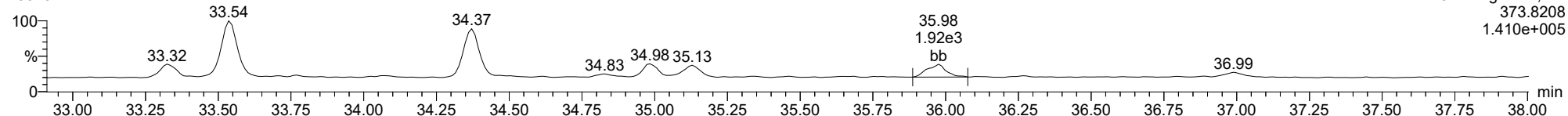
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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

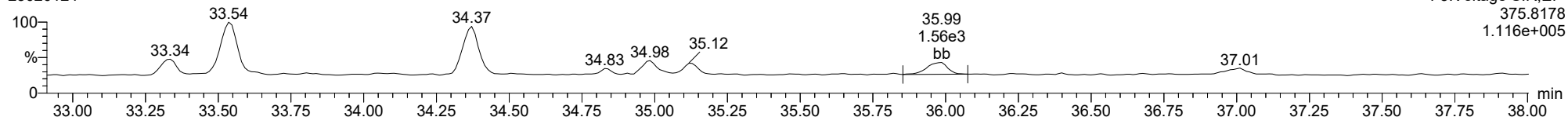
**234678-HxCDF**

23020124



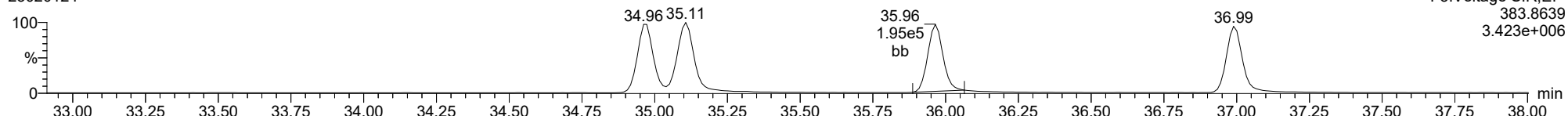
**234678-HxCDF**

23020124



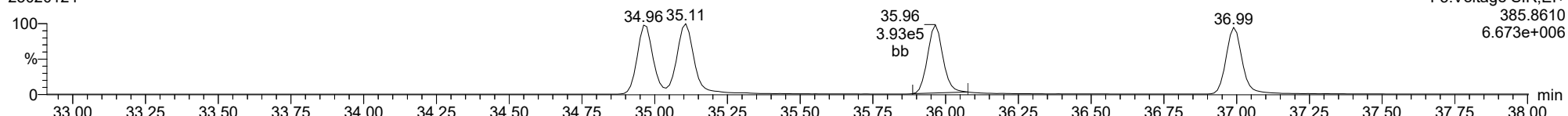
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23020124



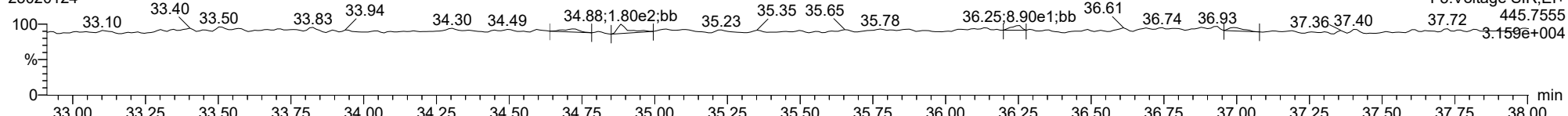
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23020124



**FUNCTION3 OCDPE**

23020124

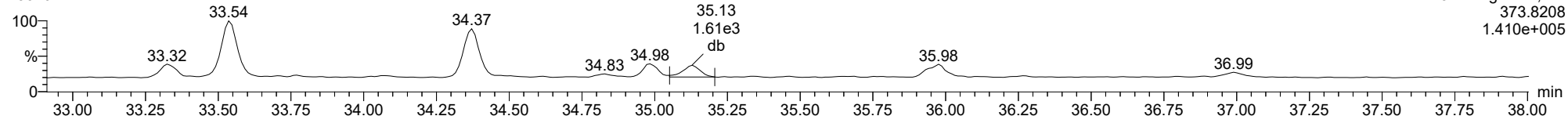




ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

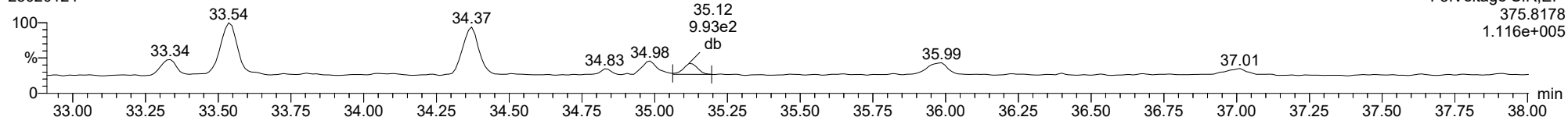
**123678-HxCDF**

23020124



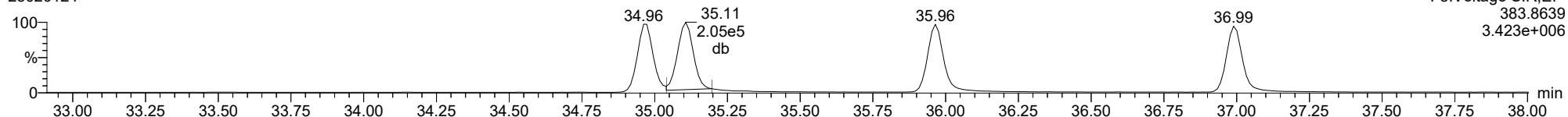
**123678-HxCDF**

23020124



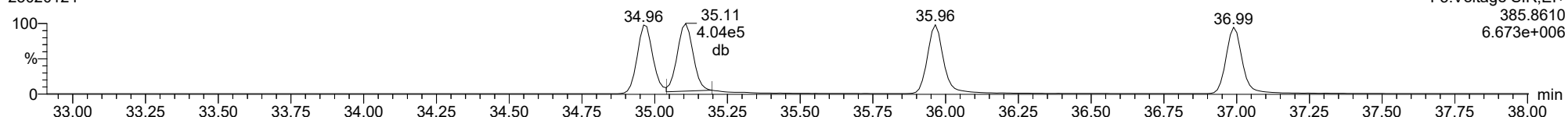
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23020124



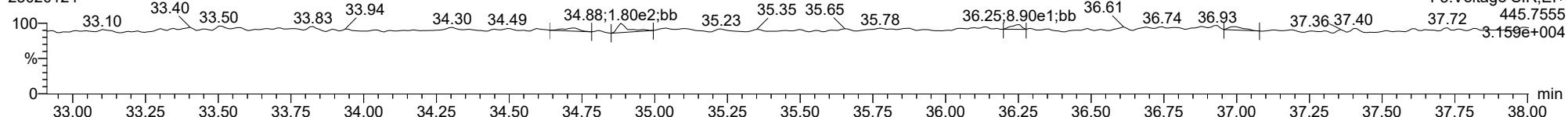
**13C-123678-HxCDF**

23020124



**FUNCTION3 OCDPE**

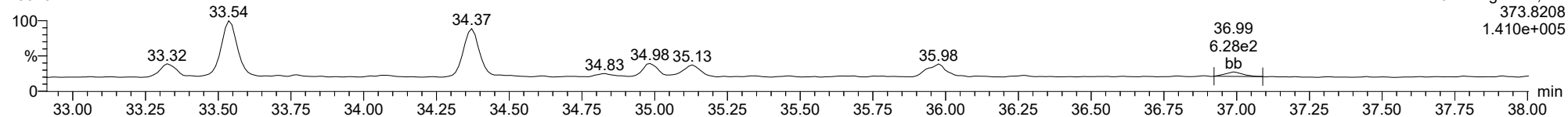
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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

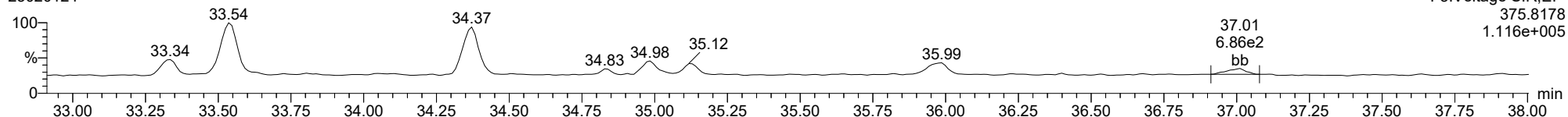
**123789-HxCDF**

23020124



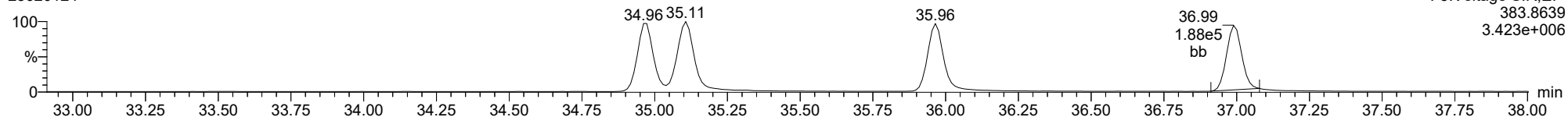
**123789-HxCDF**

23020124



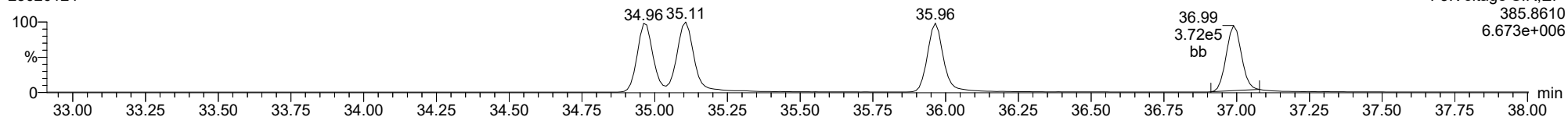
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23020124



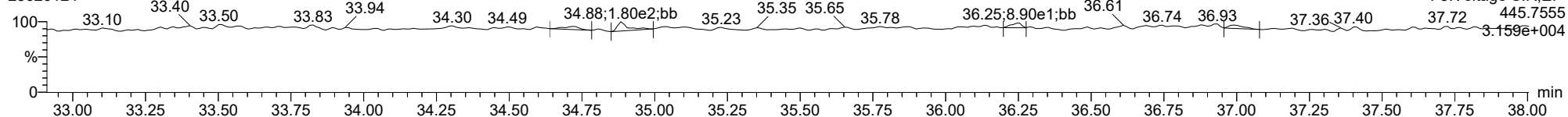
**13C-123789-HxCDF**

23020124



**FUNCTION3 OCDPE**

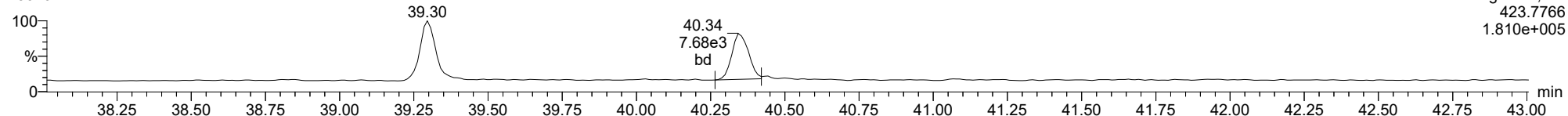
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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

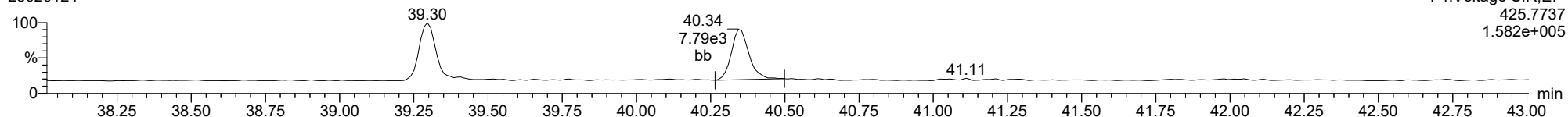
**1234678-HpCDD**

23020124



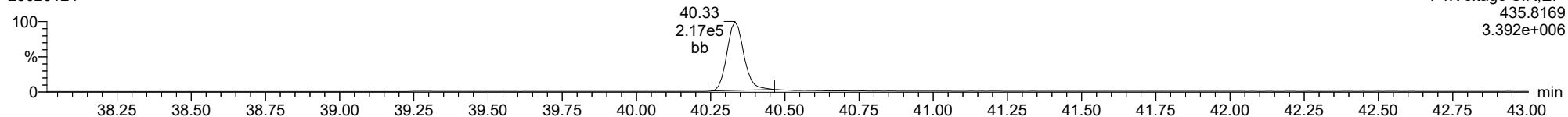
**1234678-HpCDD**

23020124



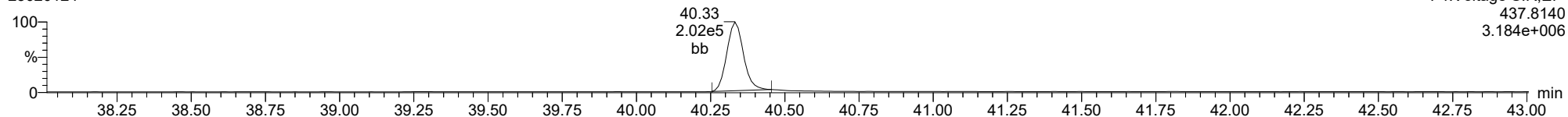
**13C-1234678-HpCDD**

23020124



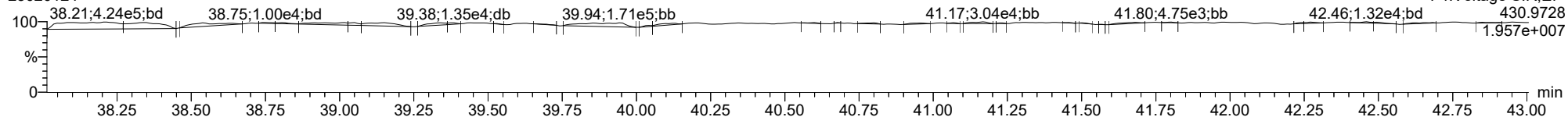
**13C-1234678-HpCDD**

23020124



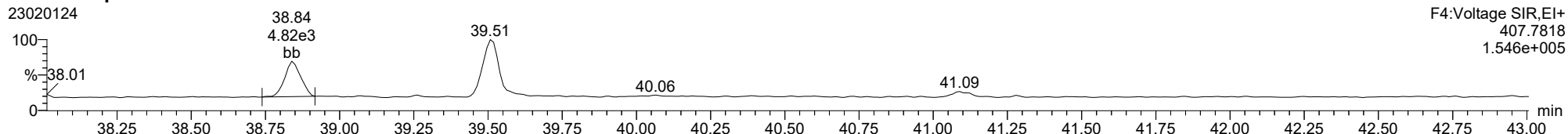
**FUNCTION4 PFK**

23020124

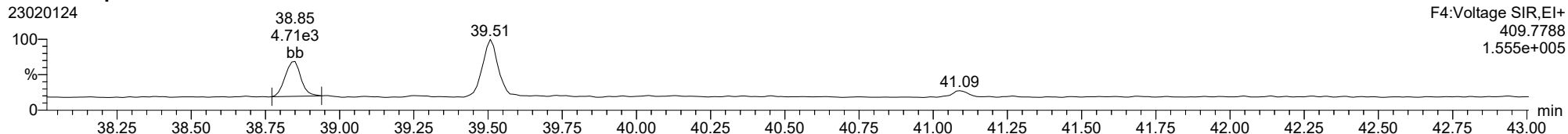


ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

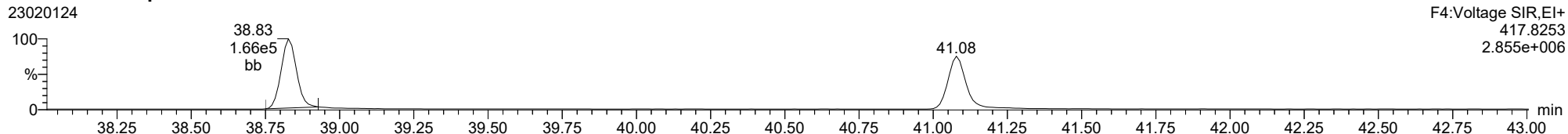
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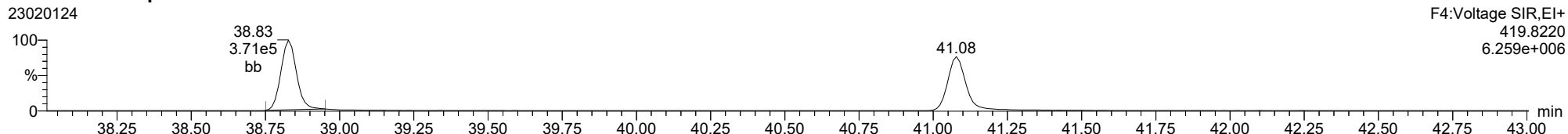
**1234678-HpCDF**



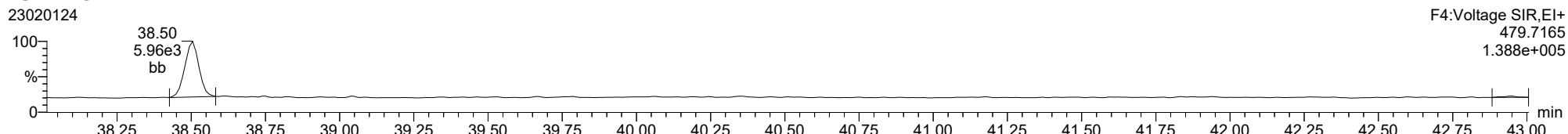
**13C-1234678-HpCDF**



**13C-1234678-HpCDF**



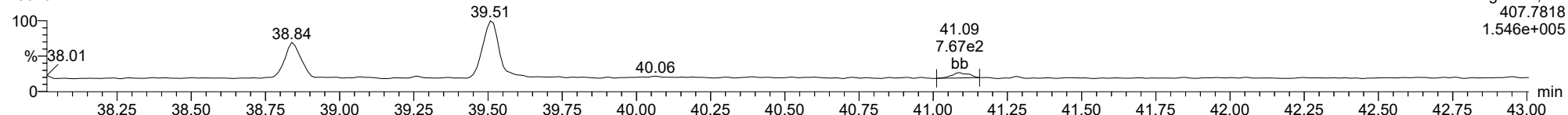
**FUNCTION4 NCDPE**



ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

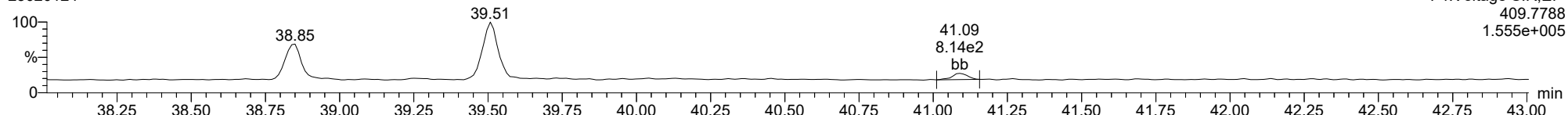
**1234789-HpCDF**

23020124



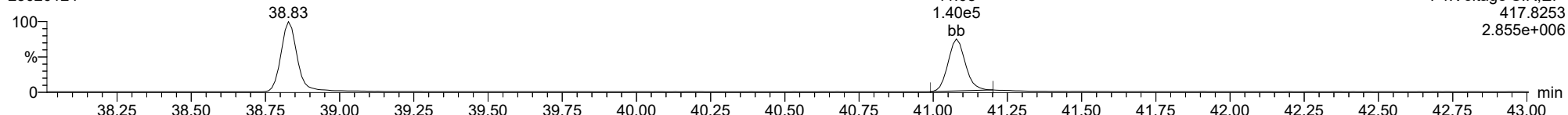
**1234789-HpCDF**

23020124



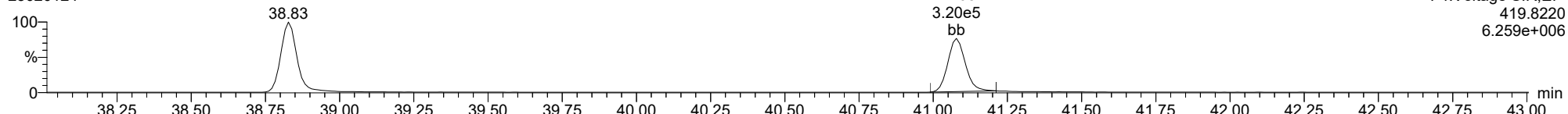
**13C-1234789-HpCDF**

23020124



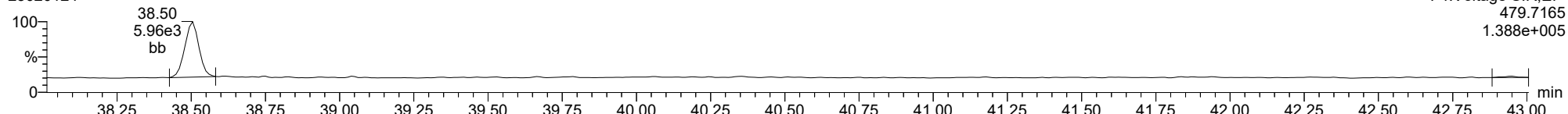
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23020124



**FUNCTION4 NCDPE**

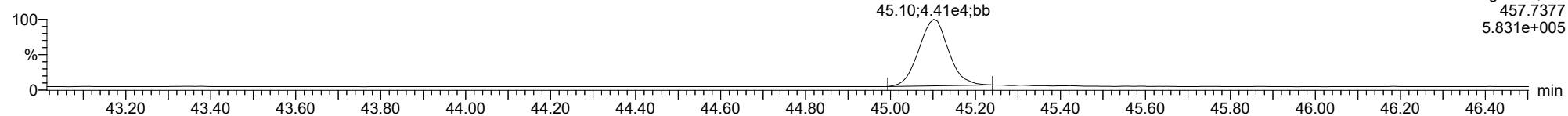
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ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

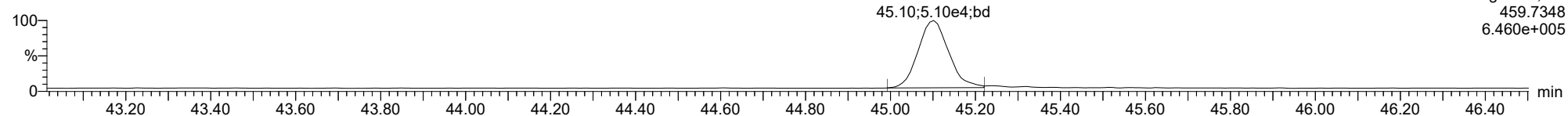
**OCDD**

23020124



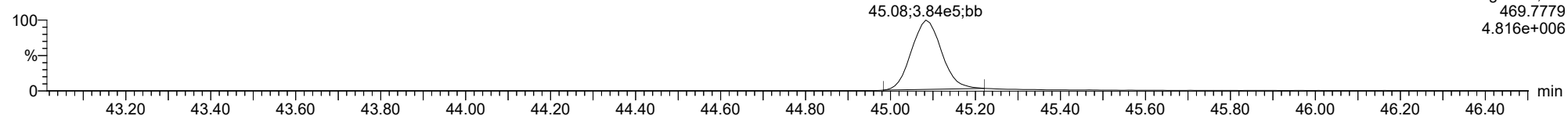
**OCDD**

23020124



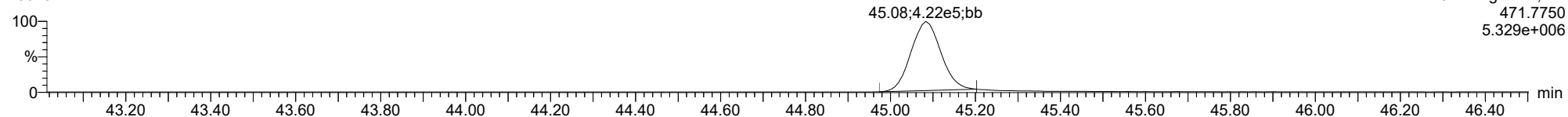
**13C-OCDD**

23020124



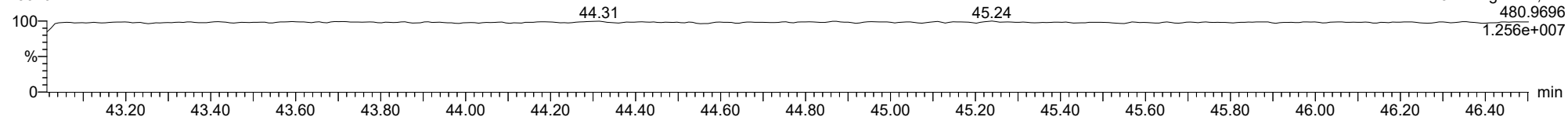
**13C-OCDD**

23020124



**FUNCTION5 PFK**

23020124



ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

**OCDF**

23020124

100  
%  
0

45.35;5.83e3;bb

F5:Voltage SIR,EI+  
441.7428  
1.035e+005

43.01  
43.20 43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

**OCDF**

23020124

100  
%  
0

45.35;5.98e3;bb

F5:Voltage SIR,EI+  
443.7399  
9.872e+004

43.37  
43.20 43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

**FUNCTION5 DCDPE**

23020124

100  
%  
0

44.02;9.50e1;bb

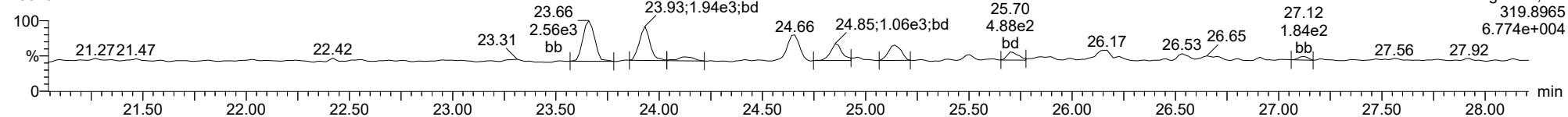
F5:Voltage SIR,EI+  
513.6775  
3.121e+004

43.11 43.17 43.35 43.53 43.67 43.80 44.27 44.37 44.54 44.62 44.80 44.86 45.19 45.42 45.50 45.62 45.90 46.11  
43.20 43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

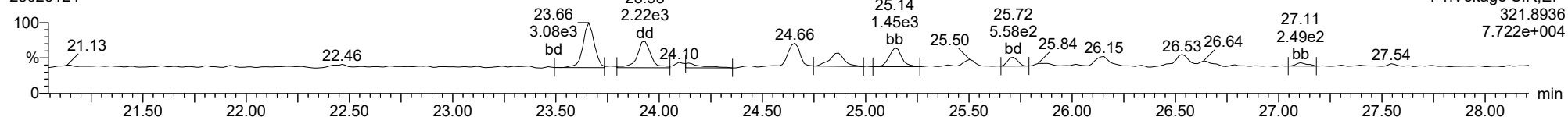
**Total-tetradioxins**

23020124



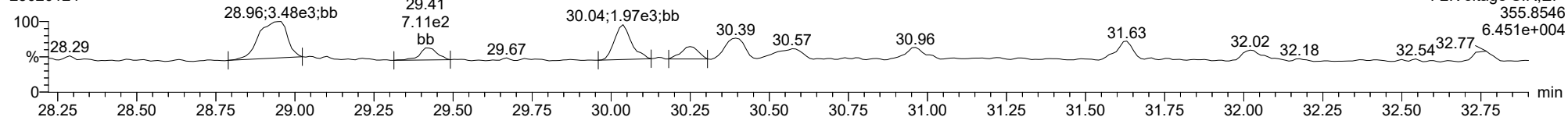
**Total-tetradioxins**

23020124



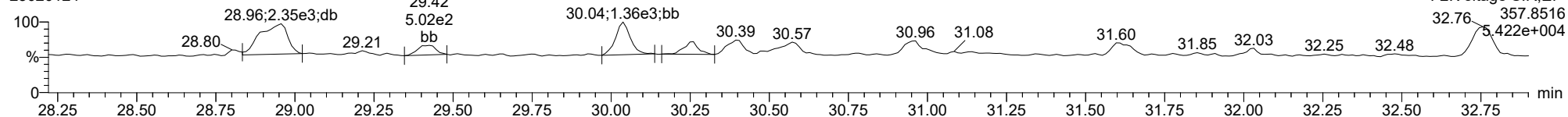
**Total-pentadioxins**

23020124



**Total-pentadioxins**

23020124

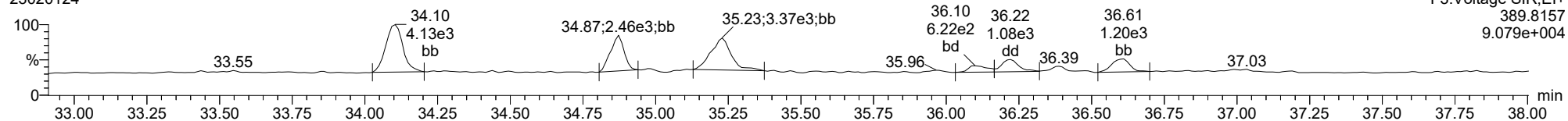




ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

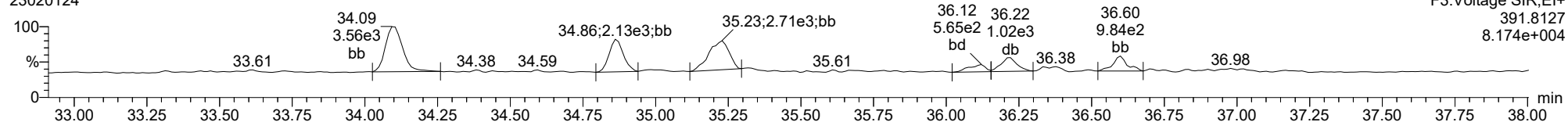
### Total-hexadioxins

23020124



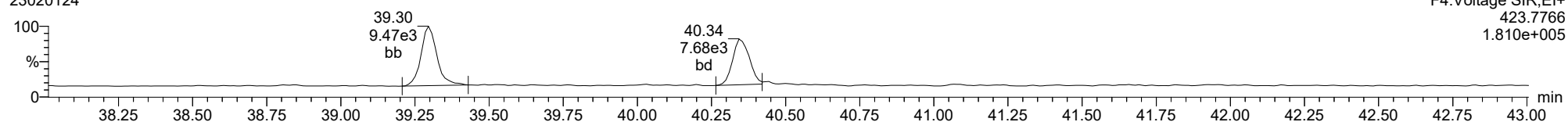
### Total-hexadioxins

23020124



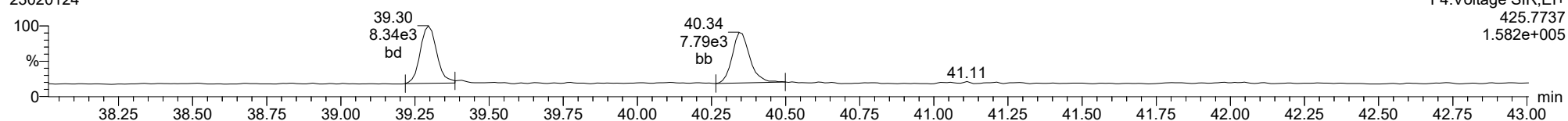
### Total-heptadioxins

23020124



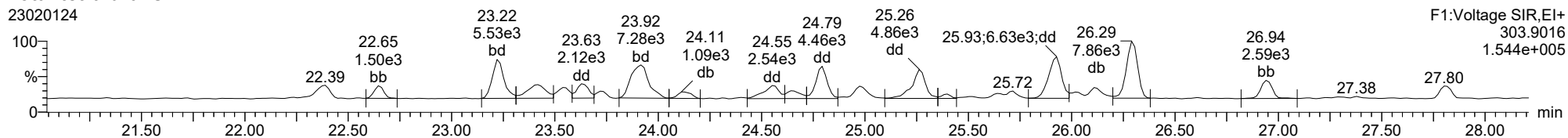
### Total-heptadioxins

23020124

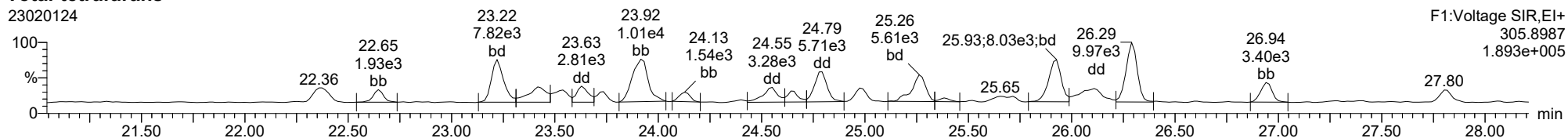


ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

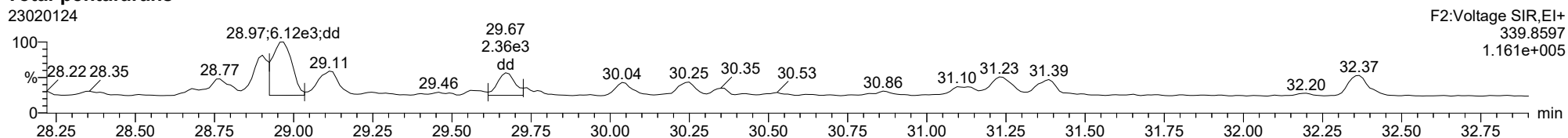
**Total-tetrafurans**



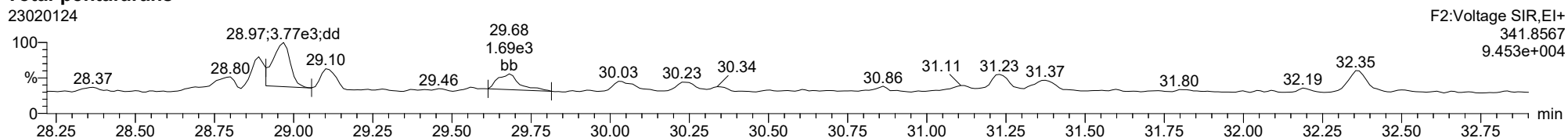
**Total-tetrafurans**



**Total-pentafurans**



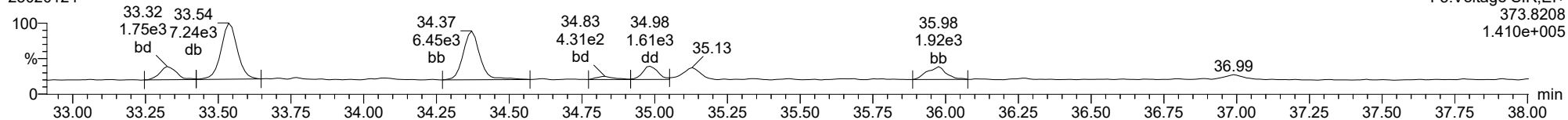
**Total-pentafurans**



ID: 22L0246-12, Name: 23020124, Date: 02-Feb-2023, Time: 08:08:51, Conditions: AUTOSPEC01, User: pk

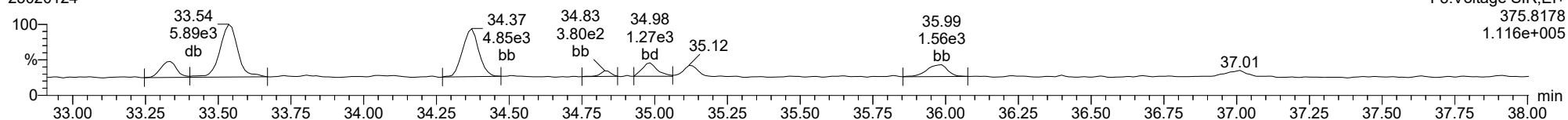
**Total-hexafulurans**

23020124



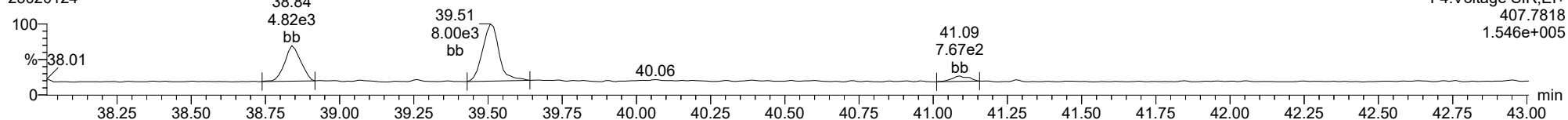
**Total-hexafulurans**

23020124



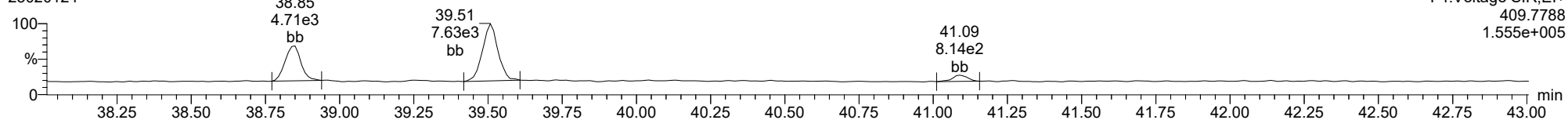
**Total-heptafulurans**

23020124



**Total-heptafulurans**

23020124





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-13 A File ID: 23020125  
 Sampled: 12/09/22 08:40 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 08:58  
 % Solids: 52.83 Preparation: EPA 1613 Initial/Final: 18.95 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.816	0.655-0.886	0.130	0.999	1.75	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1		0.655-0.886	0.112	0.999	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	1.616	1.318-1.783	0.144	0.999	0.495	ng/kg	J
57117-31-4	2,3,4,7,8-PeCDF	1	1.333	1.318-1.783	0.133	0.999	0.752	ng/kg	J
40321-76-4	1,2,3,7,8-PeCDD	1	1.226	1.318-1.783	0.147	0.999	0.482	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.334	1.054-1.426	0.085	0.999	0.530	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.427	1.054-1.426	0.079	0.999	0.565	ng/kg	EMPC, J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.185	1.054-1.426	0.082	0.999	0.773	ng/kg	J
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.143	1.054-1.426	0.091	0.999	0.218	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.444	1.054-1.426	0.129	0.999	0.330	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.142	1.054-1.426	0.122	0.999	0.542	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.265	1.054-1.426	0.128	0.999	0.587	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.170	0.893-1.208	0.101	0.999	1.82	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.187	0.893-1.208	0.146	0.999	0.205	ng/kg	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.014	0.893-1.208	0.115	2.50	2.90	ng/kg	B
39001-02-0	OCDF	1	0.943	0.757-1.024	0.146	2.50	1.63	ng/kg	J, B
3268-87-9	OCDD	1	0.856	0.757-1.024	0.170	9.99	15.4	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	15.4	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	1.53	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	13.6	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	1.54	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	7.03	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	7.83	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	3.28	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	6.53	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.31  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.36



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-13</u>
Sampled:	<u>12/09/22 08:40</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>52.83</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020125</u>
		Analyzed:	<u>02/02/23 08:58</u>
		Initial/Final:	<u>18.95 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.795	0.655-0.886	0.117	77.2	24 - 169 %	
13C12-2,3,7,8-TCDD		0.793	0.655-0.886	0.130	87.6	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.584	1.318-1.783	0.198	84.2	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.518	1.318-1.783	0.206	83.3	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.620	1.318-1.783	0.154	84.8	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.510	0.434-0.587	0.193	75.5	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.506	0.434-0.587	0.188	74.5	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.491	0.434-0.587	0.200	77.2	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.509	0.434-0.587	0.219	80.0	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.276	1.054-1.426	0.162	80.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.276	1.054-1.426	0.157	77.9	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.445	0.374-0.506	0.173	68.1	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.450	0.374-0.506	0.198	65.7	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.068	0.893-1.208	0.201	70.9	23 - 140 %	
13C12-OCDD		0.900	0.757-1.024	0.174	66.6	17 - 157 %	
37Cl4-2,3,7,8-TCDD		328.000		0.052	87.0	35 - 197 %	

\* Values outside of QC limits



Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:05:48 Pacific Standard Time

ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.404	0.866	1.788e3	2.801e3	1.064	0.638	0.770	2232	1212	2.75e4	3.74e4	12.3	30.9	YES	bb	bb	0.366
1289-TCDF					0.858		0.770	2232	1212								
13468-PECDF					1.013		1.550	1094	1120								
12389-PECDF					0.844		1.550	1484	1890								
123468-HXCDF	33.357	0.954	2.080e3	1.585e3	1.197	1.312	1.240	914	1272	2.67e4	2.32e4	29.2	18.2	NO	bd	bd	0.383
1368-TCDD	23.674	0.893	3.005e3	3.295e3	1.084	0.912	0.770	1673	1268	4.91e4	5.36e4	29.3	42.3	YES	bb	bb	0.696
1289-TCDD					0.975		0.770	1673	1268								
12479-PECDD	28.956	0.915	4.677e3	2.586e3	1.837	1.809	1.550	1417	1202	5.40e4	2.69e4	38.1	22.3	YES	bb	bb	0.590
12389-PECDD					1.252		1.550	1417	1202								
124679-HXCDD	34.115	0.945	4.296e3	3.125e3	1.033	1.375	1.240	1166	1390	6.44e4	4.98e4	55.3	35.8	NO	bd	bb	0.950
1234679-HPCDD	39.307	0.974	6.583e3	6.448e3	1.286	1.021	1.050	963	1057	1.03e5	1.00e5	107.4	94.8	NO	bb	bb	1.817
Total-tetrafurans			3.647e4		0.933			2232		4.92e5							7.687
Total-penta1			1.764e4					1094		2.49e5							2.828
Total-pentafurans			2.266e4		0.866			1484		3.29e5							3.975
Total-hexafurans			1.863e4		1.208			914		2.69e5							3.520
Total-heptafurans			7.225e3		1.185			1195		1.13e5							1.644
Total-Furans			1.058e5		1.067			2232		1.49e6							20.608
Total-tetradioxins			3.107e3		1.099			1673		4.59e4							0.764
Total-pentadioxins			4.398e3		1.392			1417		7.10e4							0.773
Total-hexadioxins			1.692e4		1.007			1166		2.41e5							3.917
Total-heptadioxins			1.169e4		1.269			963		1.82e5							3.269
Total-Dioxins			5.686e4		1.165			1673		8.00e5							16.454
Total-TEQ			1.627e5					1673		2.29e6							37.062
FUNCTION1 PFK			2.172e7					337218		1.68e8							
FUNCTION2 PFK			3.301e5					176263		1.60e6							0.000
FUNCTION3 PFK			2.240e6					334682		3.52e7							0.000
FUNCTION4 PFK			1.856e4					214752		7.29e5							
FUNCTION5 PFK			4.449e4					155128		1.66e6							
FUNCTION1 HXCD...			1.095e4					988		1.78e5							0.000
FUNCTION1 HPCD...			9.457e2					959		1.59e4							0.000
FUNCTION2 HPCD...			1.884e3					887		2.93e4							0.000
FUNCTION3 OCDPE			3.081e2					1022		4.83e3							0.000
FUNCTION4 NCDPE			6.464e3					853		1.12e5							0.000
FUNCTION5 DCDPE			0.000e0					924		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:48 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201CIH.cdb 03 Feb 2023 10:33:40****ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	25.00	2.300e3	3.325e3	0.933	0.69	0.77	15.3	YES	NO	db	db	0.511
2	Total-tetrafurans	24.79	4.266e3	5.800e3	0.933	0.74	0.77	26.3	YES	NO	dd	dd	0.915
3	Total-tetrafurans	24.14	1.606e3	1.985e3	0.933	0.81	0.77	11.0	YES	NO	db	db	0.326
4	Total-tetrafurans	23.92	5.772e3	7.927e3	0.933	0.73	0.77	26.0	YES	NO	dd	bd	1.245
5	Total-tetrafurans	23.73	1.458e3	1.943e3	0.933	0.75	0.77	9.4	YES	NO	dd	db	0.309
6	Total-tetrafurans	23.64	2.114e3	2.748e3	0.933	0.77	0.77	17.3	YES	NO	dd	dd	0.442
7	Total-tetrafurans	23.43	3.753e3	5.102e3	0.933	0.74	0.77	15.7	YES	NO	dd	dd	0.805
8	Total-tetrafurans	23.24	6.596e3	7.870e3	0.933	0.84	0.77	41.8	YES	NO	bd	bd	1.315
9	Total-tetrafurans	26.96	1.175e3	1.483e3	0.933	0.79	0.77	9.1	YES	NO	bb	bb	0.242
10	Total-tetrafurans	26.31	3.351e3	4.317e3	0.933	0.78	0.77	24.7	YES	NO	db	db	0.697
11	2378-TCDF	25.93	4.074e3	4.995e3	0.876	0.82	0.77	24.1	YES	NO	bd	bd	0.878

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.32	1.764e4	1.119e4		1.58	1.55	227.5	YES	NO	bb	bd	2.828

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.12	1.905e3	1.349e3	0.866	1.41	1.55	20.8	YES	NO	dd	db	0.347
2	Total-pentafurans	28.98	6.996e3	4.401e3	0.866	1.59	1.55	66.6	YES	NO	dd	dd	1.214
3	Total-pentafurans	32.38	1.596e3	1.104e3	0.866	1.45	1.55	16.7	YES	NO	bb	bb	0.288
4	23478-PeCDF	31.39	2.067e3	1.551e3	0.911	1.33	1.55	20.5	YES	NO	dd	dd	0.376
5	Total-pentafurans	31.24	2.225e3	1.633e3	0.866	1.36	1.55	20.3	YES	NO	dd	dd	0.411
6	Total-pentafurans	30.36	9.099e2	6.574e2	0.866	1.38	1.55	8.0	YES	NO	db	db	0.167
7	Total-pentafurans	30.25	1.891e3	1.079e3	0.866	1.75	1.55	21.7	YES	NO	bd	bd	0.316
8	12378-PeCDF	30.05	1.438e3	8.897e2	0.845	1.62	1.55	14.4	YES	NO	bb	bb	0.248
9	Total-pentafurans	29.69	3.192e3	1.824e3	0.866	1.75	1.55	28.1	YES	NO	db	dd	0.534
10	Total-pentafurans	29.58	4.385e2	2.598e2	0.866	1.69	1.55	4.9	NO	NO	bd	dd	0.074



Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:48 Pacific Standard Time

ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

## HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.99	2.030e3	1.713e3	1.229	1.19	1.24	27.6	YES	NO	bb	bb	0.387
2	123478-HxCDF	34.99	1.433e3	1.074e3	1.182	1.33	1.24	23.6	YES	NO	dd	db	0.265
3	Total-hexafurans	34.85	1.156e3	9.033e2	1.208	1.28	1.24	22.1	YES	NO	bd	bd	0.217
4	Total-hexafurans	34.38	4.256e3	3.298e3	1.208	1.29	1.24	72.6	YES	NO	bb	bb	0.795
5	Total-hexafurans	33.56	7.157e3	5.799e3	1.208	1.23	1.24	112.7	YES	NO	db	db	1.364
6	123468-HXCDF	33.36	2.080e3	1.585e3	1.197	1.31	1.24	29.2	YES	NO	bd	bd	0.383
7	123789-HxCDF	37.03	5.152e2	4.508e2	1.187	1.14	1.24	6.6	YES	NO	bd	bb	0.109

## HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	3.874e2	3.264e2	1.165	1.19	1.05	5.8	YES	NO	MM	MM	0.102
2	Total-heptafurans	39.52	2.638e3	2.243e3	1.185	1.18	1.05	33.2	YES	NO	bd	bb	0.630
3	1234678-HpCDF	38.85	4.200e3	3.590e3	1.204	1.17	1.05	55.8	YES	NO	bb	bb	0.912

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:48 Pacific Standard Time

ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	25.00	2.300e3	3.325e3	0.933	0.69	0.77	15.3	YES	NO	db	db	0.511
2	Total-tetrafurans	24.79	4.266e3	5.800e3	0.933	0.74	0.77	26.3	YES	NO	dd	dd	0.915
3	Total-tetrafurans	24.14	1.606e3	1.985e3	0.933	0.81	0.77	11.0	YES	NO	db	db	0.326
4	Total-tetrafurans	23.92	5.772e3	7.927e3	0.933	0.73	0.77	26.0	YES	NO	dd	bd	1.245
5	Total-tetrafurans	23.73	1.458e3	1.943e3	0.933	0.75	0.77	9.4	YES	NO	dd	db	0.309
6	Total-tetrafurans	23.64	2.114e3	2.748e3	0.933	0.77	0.77	17.3	YES	NO	dd	dd	0.442
7	Total-tetrafurans	23.43	3.753e3	5.102e3	0.933	0.74	0.77	15.7	YES	NO	dd	dd	0.805
8	Total-tetrafurans	23.24	6.596e3	7.870e3	0.933	0.84	0.77	41.8	YES	NO	bd	bd	1.315
9	Total-Furans	27.83	7.044e2	1.045e3	1.067	0.67	0.77	3.8	YES	NO	bb	bb	0.139
10	Total-tetrafurans	26.96	1.175e3	1.483e3	0.933	0.79	0.77	9.1	YES	NO	bb	bb	0.242
11	Total-tetrafurans	26.31	3.351e3	4.317e3	0.933	0.78	0.77	24.7	YES	NO	db	db	0.697
12	2378-TCDF	25.93	4.074e3	4.995e3	0.876	0.82	0.77	24.1	YES	NO	bd	bd	0.878
13	Total-pentafurans	29.12	1.905e3	1.349e3	0.866	1.41	1.55	20.8	YES	NO	dd	db	0.347
14	Total-pentafurans	28.98	6.996e3	4.401e3	0.866	1.59	1.55	66.6	YES	NO	dd	dd	1.214
15	Total-pentafurans	32.38	1.596e3	1.104e3	0.866	1.45	1.55	16.7	YES	NO	bb	bb	0.288
16	23478-PeCDF	31.39	2.067e3	1.551e3	0.911	1.33	1.55	20.5	YES	NO	dd	dd	0.376
17	Total-pentafurans	31.24	2.225e3	1.633e3	0.866	1.36	1.55	20.3	YES	NO	dd	dd	0.411
18	Total-pentafurans	30.36	9.099e2	6.574e2	0.866	1.38	1.55	8.0	YES	NO	db	db	0.167
19	Total-pentafurans	30.25	1.891e3	1.079e3	0.866	1.75	1.55	21.7	YES	NO	bd	bd	0.316
20	12378-PeCDF	30.05	1.438e3	8.897e2	0.845	1.62	1.55	14.4	YES	NO	bb	bb	0.248
21	Total-pentafurans	29.69	3.192e3	1.824e3	0.866	1.75	1.55	28.1	YES	NO	db	dd	0.534
22	Total-pentafurans	29.58	4.385e2	2.598e2	0.866	1.69	1.55	4.9	NO	NO	bd	dd	0.074
23	234678-HxCDF	35.99	2.030e3	1.713e3	1.229	1.19	1.24	27.6	YES	NO	bb	bb	0.387
24	123478-HxCDF	34.99	1.433e3	1.074e3	1.182	1.33	1.24	23.6	YES	NO	dd	db	0.265
25	Total-hexafurans	34.85	1.156e3	9.033e2	1.208	1.28	1.24	22.1	YES	NO	bd	bd	0.217
26	Total-hexafurans	34.38	4.256e3	3.298e3	1.208	1.29	1.24	72.6	YES	NO	bb	bb	0.795
27	Total-hexafurans	33.56	7.157e3	5.799e3	1.208	1.23	1.24	112.7	YES	NO	db	db	1.364
28	123468-HXCDF	33.36	2.080e3	1.585e3	1.197	1.31	1.24	29.2	YES	NO	bd	bd	0.383
29	123789-HxCDF	37.03	5.152e2	4.508e2	1.187	1.14	1.24	6.6	YES	NO	bd	bb	0.109
30	1234789-HpCDF	41.10	3.874e2	3.264e2	1.165	1.19	1.05	5.8	YES	NO	MM	MM	0.102
31	Total-heptafurans	39.52	2.638e3	2.243e3	1.185	1.18	1.05	33.2	YES	NO	bd	bb	0.630
32	1234678-HpCDF	38.85	4.200e3	3.590e3	1.204	1.17	1.05	55.8	YES	NO	bb	bb	0.912
33	OCDF	45.37	2.476e3	2.625e3	1.186	0.94	0.89	31.4	YES	NO	bb	bb	0.815
34	Total-penta1	27.32	1.764e4	1.119e4		1.58	1.55	227.5	YES	NO	bb	bd	2.828

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## TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradiioxins	25.52	4.550e2	6.400e2	1.099	0.71	0.77	4.5	YES	NO	db	dd	0.119
2	Total-tetradiioxins	25.17	1.145e3	1.436e3	1.099	0.80	0.77	9.1	YES	NO	bd	bb	0.281
3	Total-tetradiioxins	24.66	1.507e3	1.831e3	1.099	0.82	0.77	13.8	YES	NO	bb	bb	0.364

## PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadiioxins	30.97	1.425e3	1.016e3	1.392	1.40	1.55	15.0	YES	NO	bb	bb	0.262
2	Total-pentadiioxins	30.05	2.973e3	1.799e3	1.392	1.65	1.55	35.1	YES	NO	bb	bb	0.512

## HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadiioxins	34.88	5.433e3	4.236e3	1.007	1.28	1.24	75.9	YES	NO	bd	bb	1.271
2	124679-HxCDD	34.12	4.296e3	3.125e3	1.033	1.37	1.24	55.3	YES	NO	bd	bb	0.950
3	123789-HxCDD	36.61	1.222e3	9.661e2	0.985	1.26	1.24	15.5	YES	NO	bb	bb	0.294
4	123678-HxCDD	36.22	1.118e3	9.782e2	1.021	1.14	1.24	13.6	YES	NO	dd	dd	0.272
5	Total-hexadiioxins	35.35	4.807e2	3.706e2	1.007	1.30	1.24	7.2	YES	NO	db	db	0.112
6	Total-hexadiioxins	35.25	4.369e3	3.385e3	1.007	1.29	1.24	39.1	YES	NO	dd	bd	1.019

## HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	5.106e3	5.035e3	1.253	1.01	1.05	81.4	YES	NO	bb	bb	1.452
2	1234679-HPCDD	39.31	6.583e3	6.448e3	1.286	1.02	1.05	107.4	YES	NO	bb	bb	1.817

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.52	4.550e2	6.400e2	1.099	0.71	0.77	4.5	YES	NO	db	dd	0.119
2	Total-tetradoxins	25.17	1.145e3	1.436e3	1.099	0.80	0.77	9.1	YES	NO	bd	bb	0.281
3	Total-tetradoxins	24.66	1.507e3	1.831e3	1.099	0.82	0.77	13.8	YES	NO	bb	bb	0.364
4	Total-pentadoxins	30.97	1.425e3	1.016e3	1.392	1.40	1.55	15.0	YES	NO	bb	bb	0.262
5	Total-pentadoxins	30.05	2.973e3	1.799e3	1.392	1.65	1.55	35.1	YES	NO	bb	bb	0.512
6	Total-hexadoxins	34.88	5.433e3	4.236e3	1.007	1.28	1.24	75.9	YES	NO	bd	bb	1.271
7	124679-HxCDD	34.12	4.296e3	3.125e3	1.033	1.37	1.24	55.3	YES	NO	bd	bb	0.950
8	123789-HxCDD	36.61	1.222e3	9.661e2	0.985	1.26	1.24	15.5	YES	NO	bb	bb	0.294
9	123678-HxCDD	36.22	1.118e3	9.782e2	1.021	1.14	1.24	13.6	YES	NO	dd	dd	0.272
10	Total-hexadoxins	35.35	4.807e2	3.706e2	1.007	1.30	1.24	7.2	YES	NO	db	db	0.112
11	Total-hexadoxins	35.25	4.369e3	3.385e3	1.007	1.29	1.24	39.1	YES	NO	dd	bd	1.019
12	OCDD	45.12	2.075e4	2.423e4	1.103	0.86	0.89	245.4	YES	NO	bb	bd	7.731
13	1234678-HpCDD	40.37	5.106e3	5.035e3	1.253	1.01	1.05	81.4	YES	NO	bb	bb	1.452
14	1234679-HPCDD	39.31	6.583e3	6.448e3	1.286	1.02	1.05	107.4	YES	NO	bb	bb	1.817

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	25.00	2.300e3	3.325e3	0.933	0.69	0.77	15.3	YES	NO	db	db	0.511
2	Total-tetrafurans	24.79	4.266e3	5.800e3	0.933	0.74	0.77	26.3	YES	NO	dd	dd	0.915
3	Total-tetrafurans	24.14	1.606e3	1.985e3	0.933	0.81	0.77	11.0	YES	NO	db	db	0.326
4	Total-tetrafurans	23.92	5.772e3	7.927e3	0.933	0.73	0.77	26.0	YES	NO	dd	bd	1.245
5	Total-tetrafurans	23.73	1.458e3	1.943e3	0.933	0.75	0.77	9.4	YES	NO	dd	db	0.309
6	Total-tetrafurans	23.64	2.114e3	2.748e3	0.933	0.77	0.77	17.3	YES	NO	dd	dd	0.442
7	Total-tetrafurans	23.43	3.753e3	5.102e3	0.933	0.74	0.77	15.7	YES	NO	dd	dd	0.805
8	Total-tetrafurans	23.24	6.596e3	7.870e3	0.933	0.84	0.77	41.8	YES	NO	bd	bd	1.315
9	Total-Furans	27.83	7.044e2	1.045e3	1.067	0.67	0.77	3.8	YES	NO	bb	bb	0.139
10	Total-tetrafurans	26.96	1.175e3	1.483e3	0.933	0.79	0.77	9.1	YES	NO	bb	bb	0.242
11	Total-tetrafurans	26.31	3.351e3	4.317e3	0.933	0.78	0.77	24.7	YES	NO	db	db	0.697
12	2378-TCDF	25.93	4.074e3	4.995e3	0.876	0.82	0.77	24.1	YES	NO	bd	bd	0.878
13	Total-pentafurans	29.12	1.905e3	1.349e3	0.866	1.41	1.55	20.8	YES	NO	dd	db	0.347
14	Total-pentafurans	28.98	6.996e3	4.401e3	0.866	1.59	1.55	66.6	YES	NO	dd	dd	1.214
15	Total-pentafurans	32.38	1.596e3	1.104e3	0.866	1.45	1.55	16.7	YES	NO	bb	bb	0.288
16	23478-PeCDF	31.39	2.067e3	1.551e3	0.911	1.33	1.55	20.5	YES	NO	dd	dd	0.376
17	Total-pentafurans	31.24	2.225e3	1.633e3	0.866	1.36	1.55	20.3	YES	NO	dd	dd	0.411
18	Total-pentafurans	30.36	9.099e2	6.574e2	0.866	1.38	1.55	8.0	YES	NO	db	db	0.167
19	Total-pentafurans	30.25	1.891e3	1.079e3	0.866	1.75	1.55	21.7	YES	NO	bd	bd	0.316
20	12378-PeCDF	30.05	1.438e3	8.897e2	0.845	1.62	1.55	14.4	YES	NO	bb	bb	0.248
21	Total-pentafurans	29.69	3.192e3	1.824e3	0.866	1.75	1.55	28.1	YES	NO	db	dd	0.534
22	Total-pentafurans	29.58	4.385e2	2.598e2	0.866	1.69	1.55	4.9	NO	NO	bd	dd	0.074
23	234678-HxCDF	35.99	2.030e3	1.713e3	1.229	1.19	1.24	27.6	YES	NO	bb	bb	0.387
24	123478-HxCDF	34.99	1.433e3	1.074e3	1.182	1.33	1.24	23.6	YES	NO	dd	db	0.265
25	Total-hexafurans	34.85	1.156e3	9.033e2	1.208	1.28	1.24	22.1	YES	NO	bd	bd	0.217
26	Total-hexafurans	34.38	4.256e3	3.298e3	1.208	1.29	1.24	72.6	YES	NO	bb	bb	0.795
27	Total-hexafurans	33.56	7.157e3	5.799e3	1.208	1.23	1.24	112.7	YES	NO	db	db	1.364
28	123468-HXCDF	33.36	2.080e3	1.585e3	1.197	1.31	1.24	29.2	YES	NO	bd	bd	0.383
29	123789-HxCDF	37.03	5.152e2	4.508e2	1.187	1.14	1.24	6.6	YES	NO	bd	bb	0.109
30	1234789-HpCDF	41.10	3.874e2	3.264e2	1.165	1.19	1.05	5.8	YES	NO	MM	MM	0.102
31	Total-heptafurans	39.52	2.638e3	2.243e3	1.185	1.18	1.05	33.2	YES	NO	bd	bb	0.630
32	1234678-HpCDF	38.85	4.200e3	3.590e3	1.204	1.17	1.05	55.8	YES	NO	bb	bb	0.912
33	OCDF	45.37	2.476e3	2.625e3	1.186	0.94	0.89	31.4	YES	NO	bb	bb	0.815
34	Total-penta1	27.32	1.764e4	1.119e4		1.58	1.55	227.5	YES	NO	bb	bd	2.828
35	Total-tetradiioxins	25.52	4.550e2	6.400e2	1.099	0.71	0.77	4.5	YES	NO	db	dd	0.119
36	Total-tetradiioxins	25.17	1.145e3	1.436e3	1.099	0.80	0.77	9.1	YES	NO	bd	bb	0.281
37	Total-tetradiioxins	24.66	1.507e3	1.831e3	1.099	0.82	0.77	13.8	YES	NO	bb	bb	0.364

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-pentadioxins	30.97	1.425e3	1.016e3	1.392	1.40	1.55	15.0	YES	NO	bb	bb	0.262
39	Total-pentadioxins	30.05	2.973e3	1.799e3	1.392	1.65	1.55	35.1	YES	NO	bb	bb	0.512
40	Total-hexadioxins	34.88	5.433e3	4.236e3	1.007	1.28	1.24	75.9	YES	NO	bd	bb	1.271
41	124679-HxCDD	34.12	4.296e3	3.125e3	1.033	1.37	1.24	55.3	YES	NO	bd	bb	0.950
42	123789-HxCDD	36.61	1.222e3	9.661e2	0.985	1.26	1.24	15.5	YES	NO	bb	bb	0.294
43	123678-HxCDD	36.22	1.118e3	9.782e2	1.021	1.14	1.24	13.6	YES	NO	dd	dd	0.272
44	Total-hexadioxins	35.35	4.807e2	3.706e2	1.007	1.30	1.24	7.2	YES	NO	db	db	0.112
45	Total-hexadioxins	35.25	4.369e3	3.385e3	1.007	1.29	1.24	39.1	YES	NO	dd	bd	1.019
46	OCDD	45.12	2.075e4	2.423e4	1.103	0.86	0.89	245.4	YES	NO	bb	bd	7.731
47	1234678-HpCDD	40.37	5.106e3	5.035e3	1.253	1.01	1.05	81.4	YES	NO	bb	bb	1.452
48	1234679-HPCDD	39.31	6.583e3	6.448e3	1.286	1.02	1.05	107.4	YES	NO	bb	bb	1.817

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## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.38	1.526e6					37.1	YES		dd		
2	FUNCTION1 PFK	21.32	7.551e5					37.4	YES		dd		
3	FUNCTION1 PFK	21.25	7.836e5					39.0	YES		dd		
4	FUNCTION1 PFK	21.18	2.188e6					39.8	YES		bd		
5	FUNCTION1 PFK	24.08	2.719e4					1.0	NO		bb		
6	FUNCTION1 PFK	23.87	1.956e4					1.3	NO		db		
7	FUNCTION1 PFK	23.80	1.127e4					1.0	NO		bd		
8	FUNCTION1 PFK	23.63	2.646e4					1.6	NO		bb		
9	FUNCTION1 PFK	23.08	2.923e5					6.2	YES		db		
10	FUNCTION1 PFK	23.02	1.706e5					7.1	YES		dd		
11	FUNCTION1 PFK	22.95	1.167e5					8.2	YES		dd		
12	FUNCTION1 PFK	22.90	1.683e5					9.1	YES		dd		
13	FUNCTION1 PFK	22.78	4.256e5					11.5	YES		dd		
14	FUNCTION1 PFK	22.66	6.671e5					14.2	YES		dd		
15	FUNCTION1 PFK	22.52	1.550e6					16.4	YES		dd		
16	FUNCTION1 PFK	22.30	4.837e5					20.2	YES		bd		
17	FUNCTION1 PFK	22.12	9.481e5					26.6	YES		db		
18	FUNCTION1 PFK	22.01	2.776e6					28.3	YES		dd		
19	FUNCTION1 PFK	21.75	2.254e6					31.2	YES		dd		
20	FUNCTION1 PFK	21.56	1.096e6					33.8	YES		dd		
21	FUNCTION1 PFK	26.73	1.869e3					0.4	NO		bb		
22	FUNCTION1 PFK	26.40	2.612e5					4.0	YES		bb		
23	FUNCTION1 PFK	26.27	6.439e4					3.4	YES		db		
24	FUNCTION1 PFK	26.20	6.648e4					3.0	YES		dd		
25	FUNCTION1 PFK	26.14	3.104e4					2.0	NO		bd		
26	FUNCTION1 PFK	25.99	7.729e3					0.9	NO		bb		
27	FUNCTION1 PFK	25.93	2.203e4					1.2	NO		bb		
28	FUNCTION1 PFK	25.81	1.480e4					1.4	NO		bb		
29	FUNCTION1 PFK	25.68	1.148e4					1.1	NO		bb		
30	FUNCTION1 PFK	25.53	1.218e4					0.9	NO		bb		
31	FUNCTION1 PFK	25.47	1.990e3					0.4	NO		bb		
32	FUNCTION1 PFK	25.19	5.242e4					1.1	NO		bb		
33	FUNCTION1 PFK	24.94	1.421e4					1.1	NO		bb		
34	FUNCTION1 PFK	24.87	9.961e3					0.9	NO		db		
35	FUNCTION1 PFK	24.81	1.790e4					1.4	NO		bd		
36	FUNCTION1 PFK	24.48	7.206e3					0.8	NO		bb		
37	FUNCTION1 PFK	28.12	3.281e5					11.6	YES		db		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	28.01	5.271e5					16.2	YES		dd		
39	FUNCTION1 PFK	27.95	7.634e5					18.9	YES		bd		
40	FUNCTION1 PFK	27.74	2.056e6					22.5	YES		db		
41	FUNCTION1 PFK	27.45	2.075e5					14.1	YES		dd		
42	FUNCTION1 PFK	27.39	6.905e5					12.4	YES		dd		
43	FUNCTION1 PFK	27.18	2.416e5					6.4	YES		bd		
44	FUNCTION1 PFK	26.86	2.215e4					1.4	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.89	1.288e5					0.7	NO		bb		0.000
2	FUNCTION2 PFK	32.51	1.840e5					4.3	YES		bb		0.000
3	FUNCTION2 PFK	29.80	1.727e4					4.1	YES		bb		0.000



ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.31	1.702e5					3.0	YES		bd		0.000
2	FUNCTION3 PFK	33.08	6.903e4					2.7	NO		db		0.000
3	FUNCTION3 PFK	33.01	8.256e3					1.1	NO		bd		0.000
4	FUNCTION3 PFK	34.76	1.262e4					1.2	NO		bb		0.000
5	FUNCTION3 PFK	34.43	5.374e3					0.8	NO		bb		0.000
6	FUNCTION3 PFK	34.23	1.230e3					0.3	NO		bb		0.000
7	FUNCTION3 PFK	34.18	6.820e3					0.7	NO		bb		0.000
8	FUNCTION3 PFK	34.06	1.218e4					1.2	NO		db		0.000
9	FUNCTION3 PFK	34.01	1.749e4					1.8	NO		bd		0.000
10	FUNCTION3 PFK	33.97	2.089e3					0.6	NO		bb		0.000
11	FUNCTION3 PFK	33.93	1.326e4					1.1	NO		bb		0.000
12	FUNCTION3 PFK	33.83	2.503e3					0.5	NO		bb		0.000
13	FUNCTION3 PFK	33.78	2.177e3					0.6	NO		bb		0.000
14	FUNCTION3 PFK	33.64	1.017e4					1.1	NO		db		0.000
15	FUNCTION3 PFK	33.60	8.914e3					1.1	NO		dd		0.000
16	FUNCTION3 PFK	33.56	2.618e4					1.9	NO		dd		0.000
17	FUNCTION3 PFK	33.49	2.606e4					1.9	NO		dd		0.000
18	FUNCTION3 PFK	33.45	2.453e4					2.0	NO		dd		0.000
19	FUNCTION3 PFK	33.40	2.726e4					2.2	NO		dd		0.000
20	FUNCTION3 PFK	36.10	1.735e4					1.6	NO		bd		0.000
21	FUNCTION3 PFK	36.01	3.215e4					2.4	NO		db		0.000
22	FUNCTION3 PFK	35.96	4.831e4					3.8	YES		dd		0.000
23	FUNCTION3 PFK	35.92	4.478e4					3.5	YES		dd		0.000
24	FUNCTION3 PFK	35.84	8.266e4					3.7	YES		dd		0.000
25	FUNCTION3 PFK	35.80	4.028e4					3.2	YES		dd		0.000
26	FUNCTION3 PFK	35.74	6.591e4					3.2	YES		dd		0.000
27	FUNCTION3 PFK	35.64	7.302e4					3.7	YES		dd		0.000
28	FUNCTION3 PFK	35.57	6.877e4					3.5	YES		dd		0.000
29	FUNCTION3 PFK	35.44	1.490e5					3.7	YES		dd		0.000
30	FUNCTION3 PFK	35.38	4.623e4					3.5	YES		dd		0.000
31	FUNCTION3 PFK	35.34	8.049e4					4.3	YES		dd		0.000
32	FUNCTION3 PFK	35.27	4.980e4					2.9	NO		bd		0.000
33	FUNCTION3 PFK	35.14	7.642e4					2.8	NO		bb		0.000
34	FUNCTION3 PFK	34.91	1.962e4					1.7	NO		db		0.000
35	FUNCTION3 PFK	34.86	1.478e4					1.0	NO		bd		0.000
36	FUNCTION3 PFK	37.74	1.842e5					3.7	YES		db		0.000
37	FUNCTION3 PFK	37.62	1.509e5					4.6	YES		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:48 Pacific Standard Time

**ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	37.47	2.265e5					5.9	YES		db		0.000
39	FUNCTION3 PFK	37.37	6.270e4					4.9	YES		bd		0.000
40	FUNCTION3 PFK	37.23	7.507e4					2.6	NO		bb		0.000
41	FUNCTION3 PFK	37.01	4.214e4					2.5	NO		bb		0.000
42	FUNCTION3 PFK	36.91	5.429e4					2.7	NO		bb		0.000
43	FUNCTION3 PFK	36.64	1.755e4					1.1	NO		db		0.000
44	FUNCTION3 PFK	36.61	7.257e3					0.8	NO		bd		0.000
45	FUNCTION3 PFK	36.41	5.360e3					0.7	NO		bb		0.000
46	FUNCTION3 PFK	36.20	5.808e4					1.5	NO		db		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.33	1.029e4					1.8	NO		bb		
2	FUNCTION4 PFK	39.02	8.270e3					1.6	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.33	8.172e2					0.6	NO		bb		
2	FUNCTION5 PFK	46.23	2.051e3					0.9	NO		bb		
3	FUNCTION5 PFK	45.71	4.001e3					1.3	NO		bb		
4	FUNCTION5 PFK	45.13	8.483e2					0.6	NO		bb		
5	FUNCTION5 PFK	44.58	3.884e3					1.4	NO		db		
6	FUNCTION5 PFK	44.55	7.059e3					1.7	NO		bd		
7	FUNCTION5 PFK	44.20	2.018e4					1.9	NO		bb		
8	FUNCTION5 PFK	43.99	1.759e3					0.9	NO		bb		
9	FUNCTION5 PFK	43.94	3.892e3					1.4	NO		bb		

ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.80	4.722e2					7.9	YES		bb		0.000
2	FUNCTION1 HXCD...	26.94	9.833e2					18.4	YES		bb		0.000
3	FUNCTION1 HXCD...	26.29	3.371e3					55.1	YES		bb		0.000
4	FUNCTION1 HXCD...	26.06	1.350e3					20.1	YES		db		0.000
5	FUNCTION1 HXCD...	25.93	1.888e3					30.8	YES		bd		0.000
6	FUNCTION1 HXCD...	25.26	9.932e2					16.1	YES		bb		0.000
7	FUNCTION1 HXCD...	23.93	1.891e3					31.3	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.92	1.283e2					1.9	NO		bb		0.000
2	FUNCTION1 HPCD...	26.58	1.022e2					2.0	NO		bb		0.000
3	FUNCTION1 HPCD...	26.18	9.499e1					2.2	NO		bb		0.000
4	FUNCTION1 HPCD...	25.87	9.216e1					1.7	NO		bb		0.000
5	FUNCTION1 HPCD...	24.51	1.586e2					2.2	NO		bb		0.000
6	FUNCTION1 HPCD...	22.81	8.151e1					1.4	NO		bb		0.000
7	FUNCTION1 HPCD...	21.80	1.012e2					1.7	NO		bb		0.000
8	FUNCTION1 HPCD...	21.32	1.114e2					2.0	NO		db		0.000
9	FUNCTION1 HPCD...	21.19	7.539e1					1.6	NO		bd		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.37	7.826e2					13.0	YES		bb		0.000
2	FUNCTION2 HPCD...	30.64	1.126e2					3.3	YES		bb		0.000
3	FUNCTION2 HPCD...	29.11	9.887e2					16.7	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	34.12	9.183e1					1.3	NO		bb		0.000
2	FUNCTION3 OCDPE	37.42	1.371e2					2.3	NO		bb		0.000
3	FUNCTION3 OCDPE	35.78	7.910e1					1.1	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:48 Pacific Standard Time

ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.52	6.360e3					128.0	YES		bb		0.000
2	FUNCTION4 NCDPE	38.16	1.048e2					3.1	YES		bb		0.000

**ETHERS6**

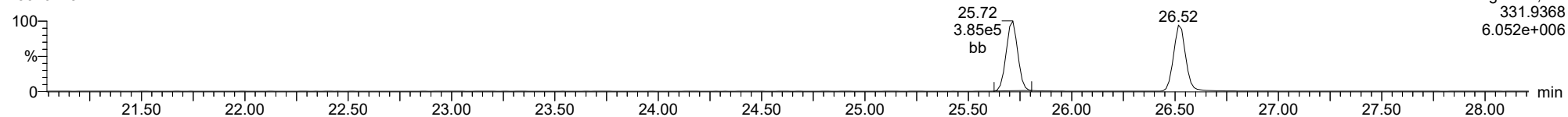
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1													

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**ID:** 22L0246-13, **Name:** 23020125, **Date:** 02-Feb-2023, **Time:** 08:58:20, **Conditions:** AUTOSPEC01, **User:** pk

**13C-1234-TCDD**

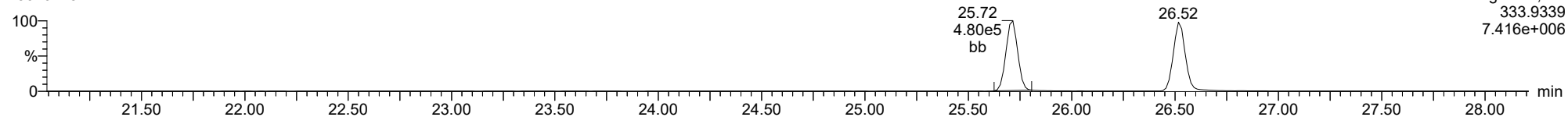
23020125



F1:Voltage SIR,El+  
331.9368  
6.052e+006

**13C-1234-TCDD**

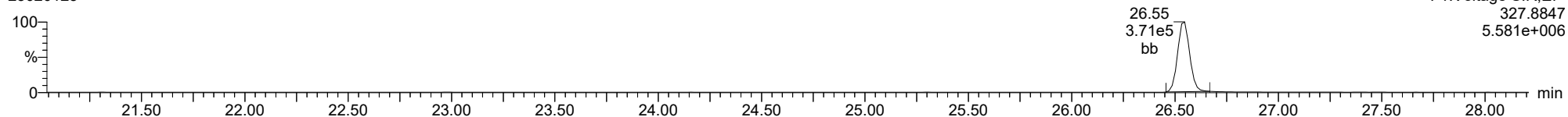
23020125



F1:Voltage SIR,El+  
333.9339  
7.416e+006

**37CL-2378-TCDD**

23020125

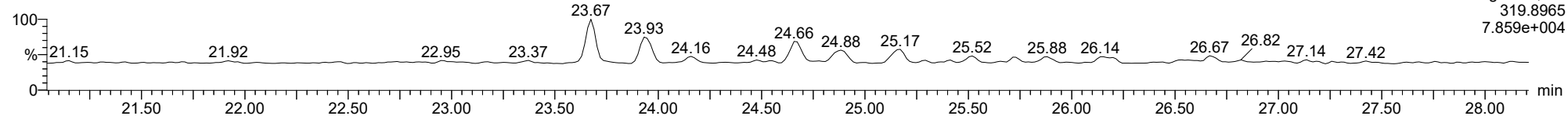


F1:Voltage SIR,El+  
327.8847  
5.581e+006

ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

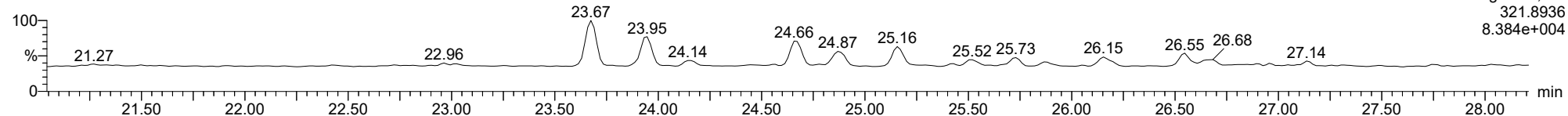
**2378-TCDD**

23020125



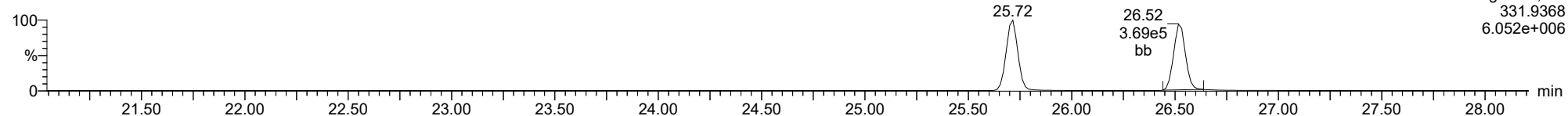
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23020125



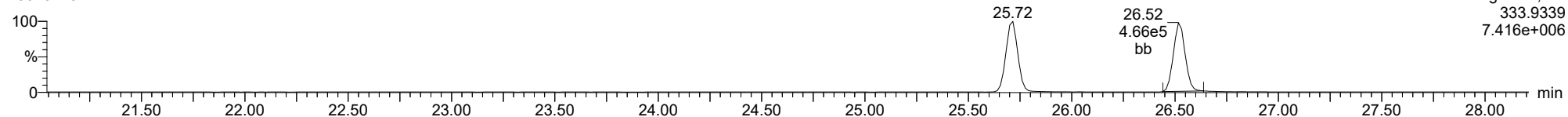
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23020125



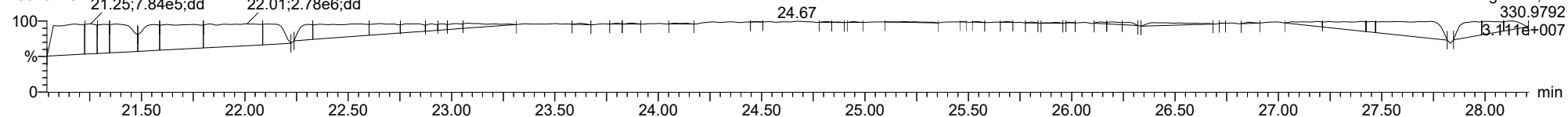
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23020125



**FUNCTION1 PFK**

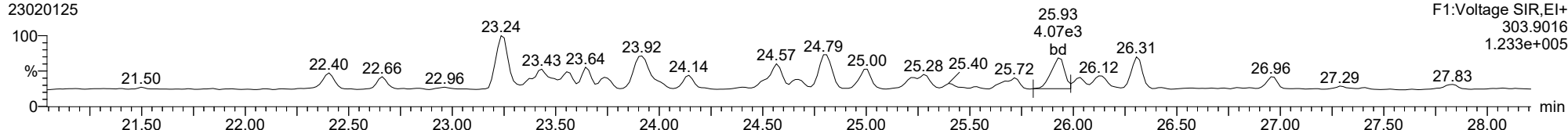
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

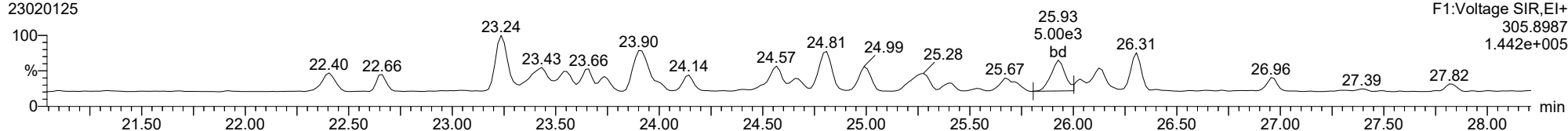
**2378-TCDF**

23020125



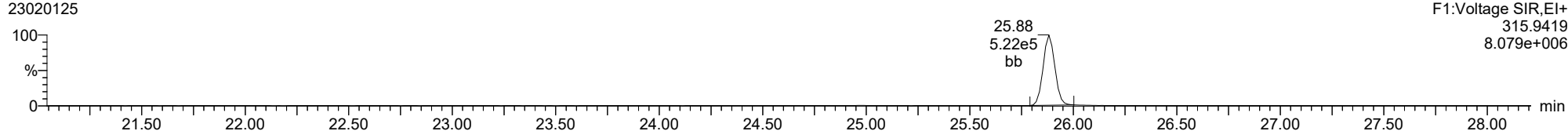
**2378-TCDF**

23020125



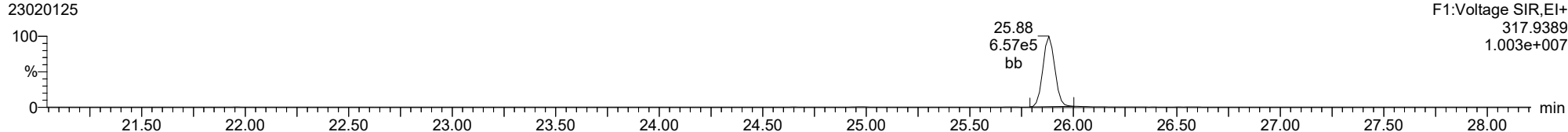
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23020125



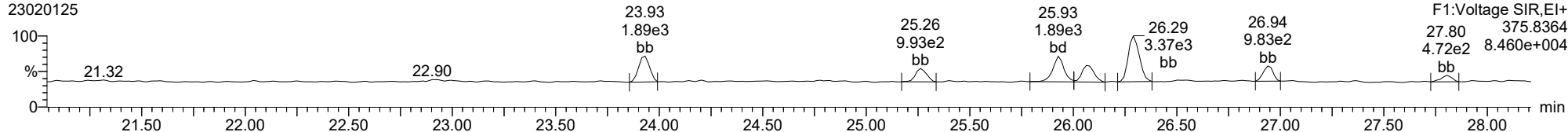
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23020125



**FUNCTION1 HXCDPE**

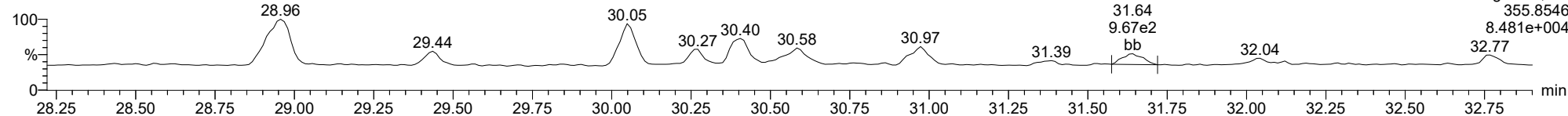
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

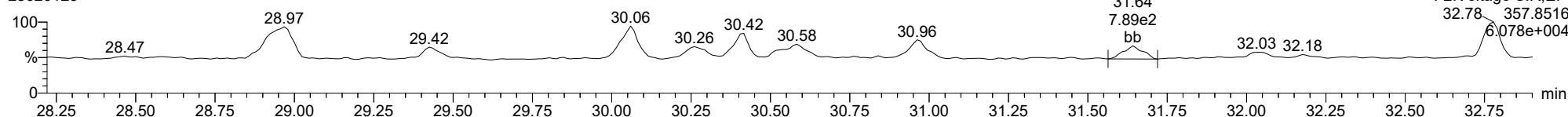
**12378-PeCDD**

23020125



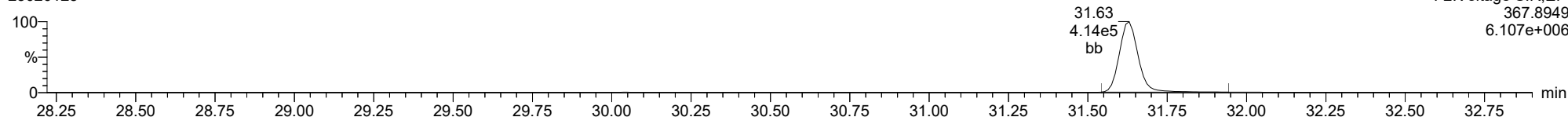
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23020125



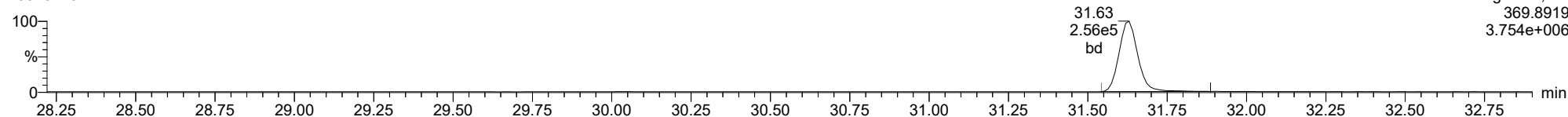
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23020125



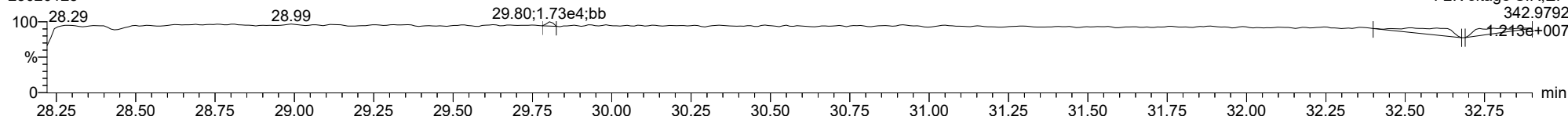
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23020125



**FUNCTION2 PFK**

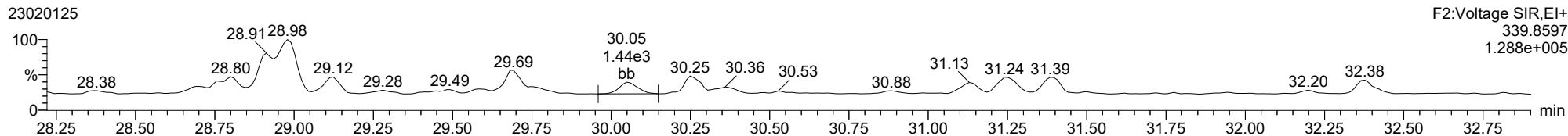
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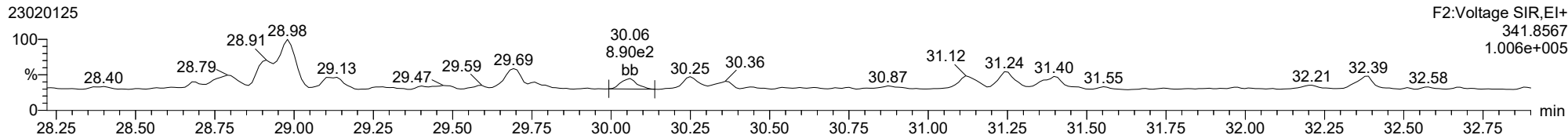


ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

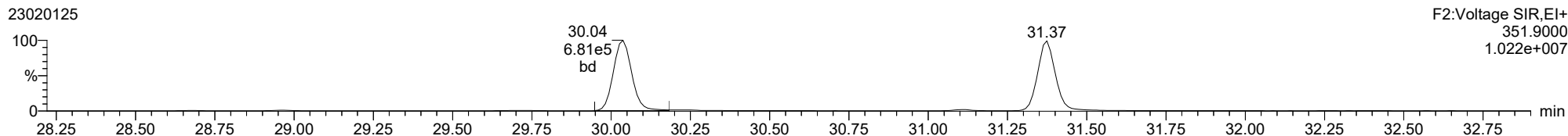
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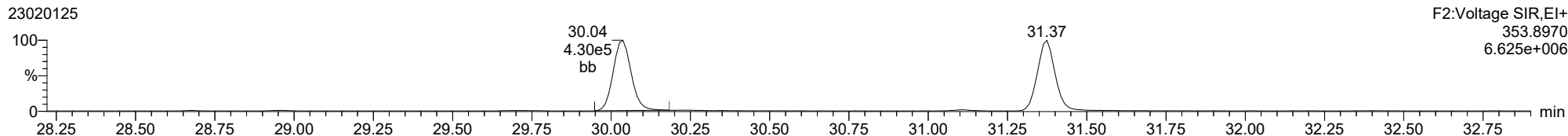
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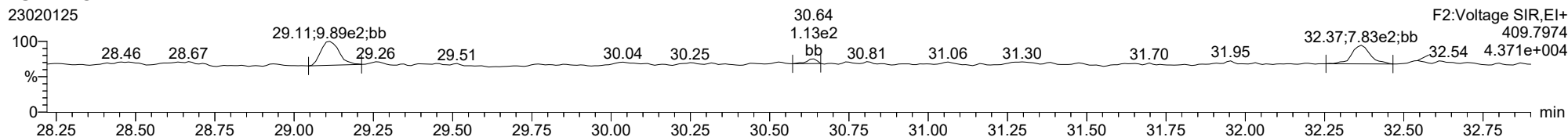
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**13C-12378-PeCDF**



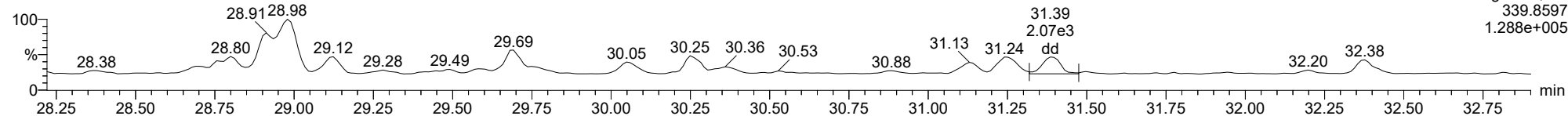
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

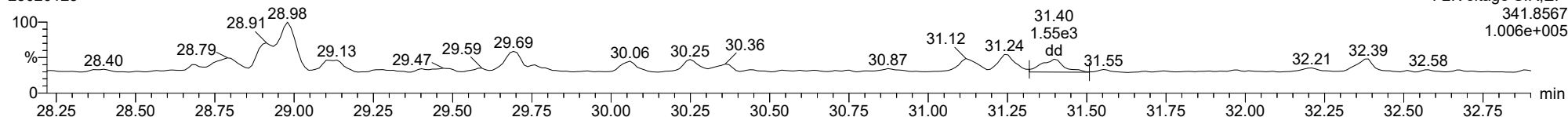
**23478-PeCDF**

23020125



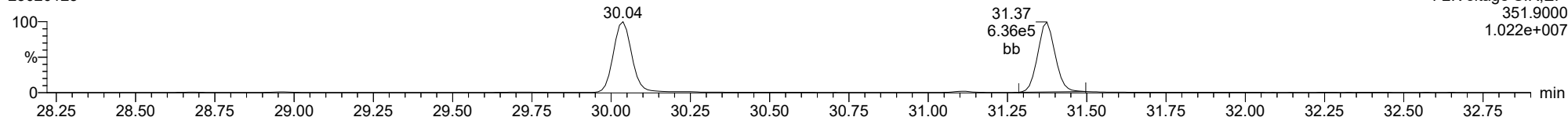
**23478-PeCDF**

23020125



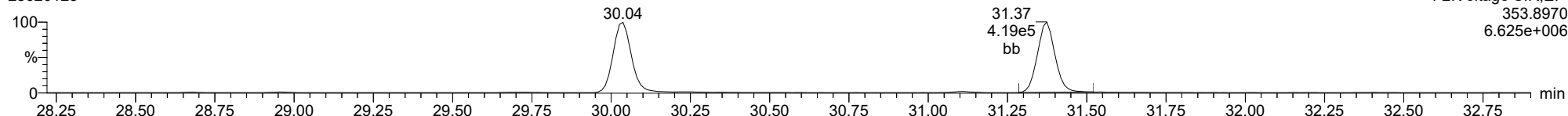
**13C-23478-PeCDF**

23020125



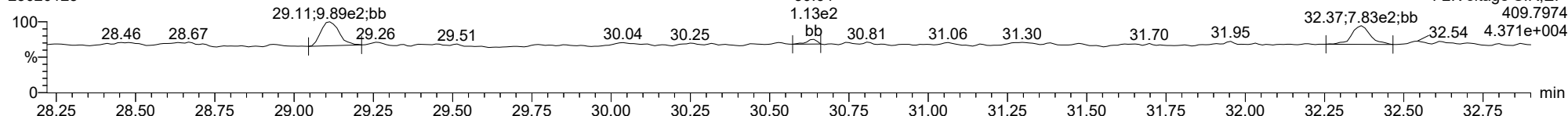
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23020125



**FUNCTION2 HPCDPE**

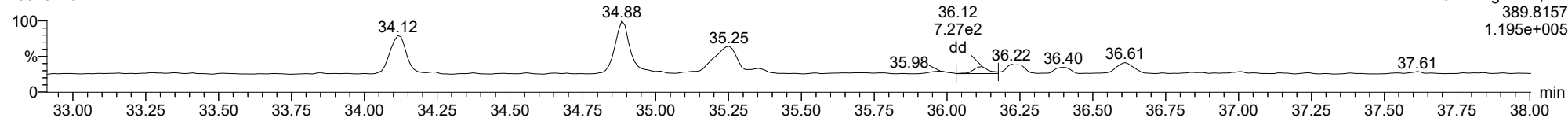
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

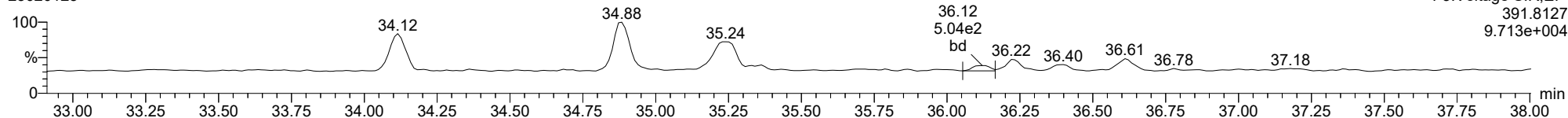
**123478-HxCDD**

23020125



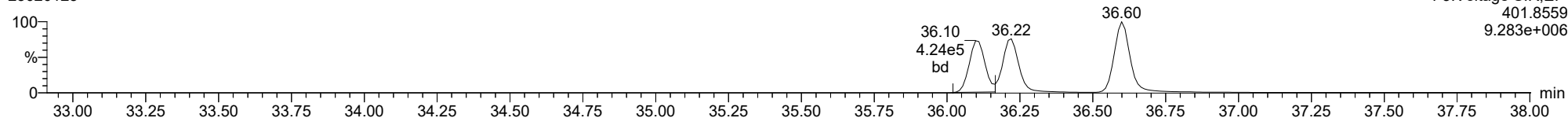
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23020125



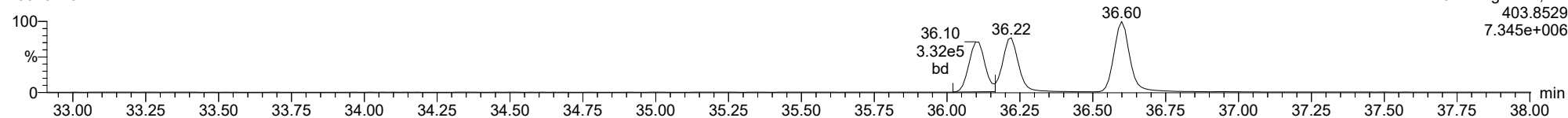
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23020125



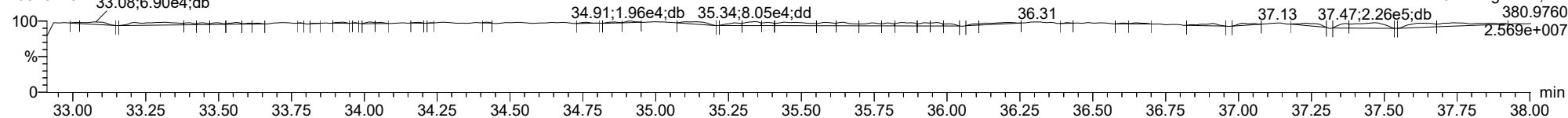
**13C-123478-HxCDD**

23020125



**FUNCTION3 PFK**

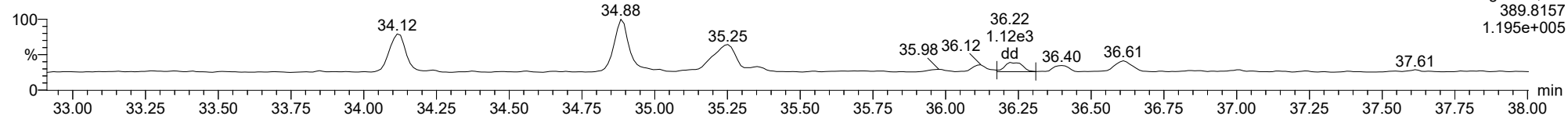
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

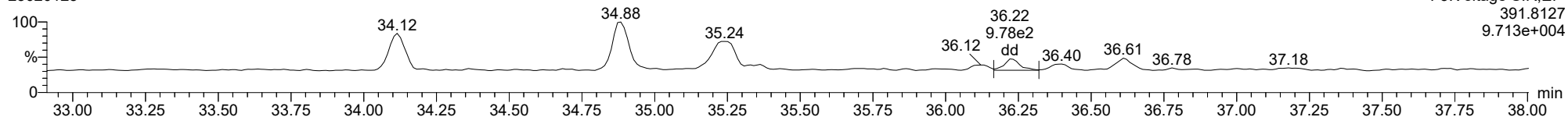
**123678-HxCDD**

23020125



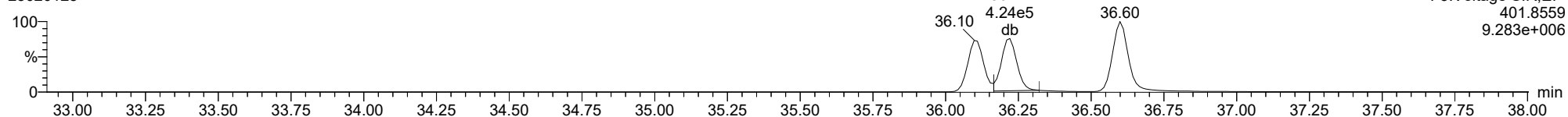
**123678-HxCDD**

23020125



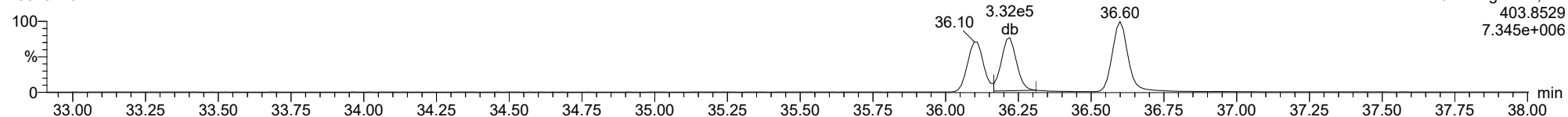
**13C-123678-HxCDD**

23020125



**13C-123678-HxCDD**

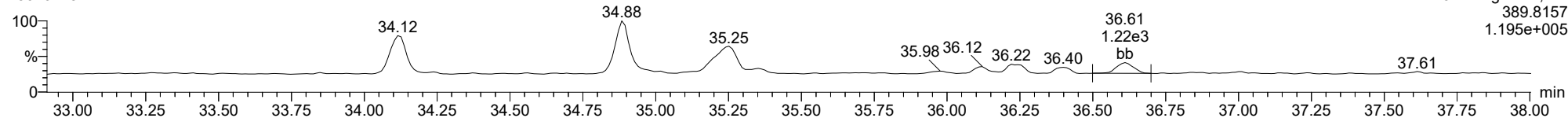
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

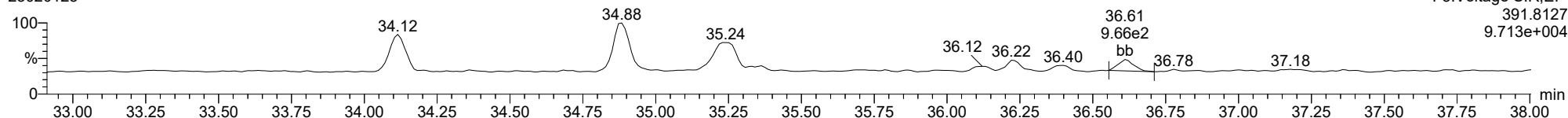
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23020125



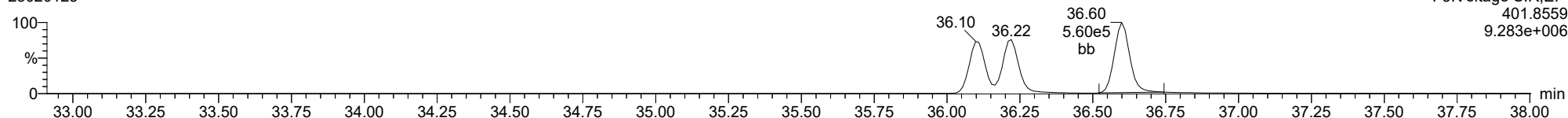
**123789-HxCDD**

23020125



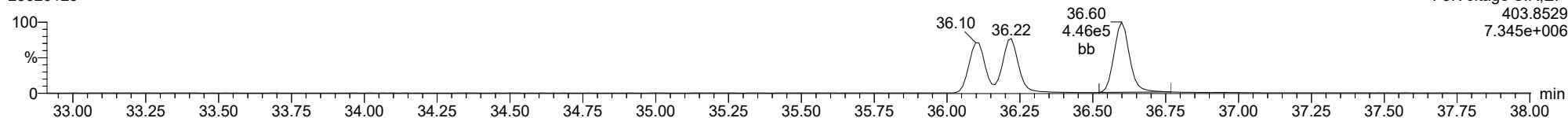
**13C-123789-HxCDD**

23020125



**13C-123789-HxCDD**

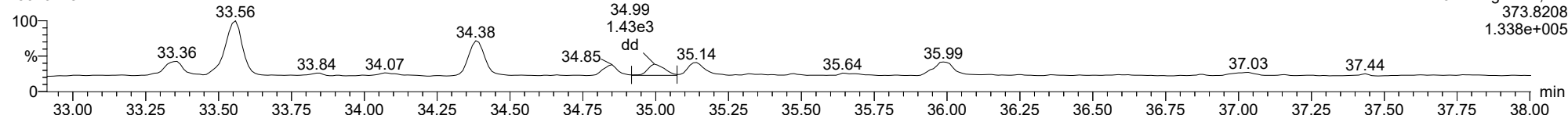
23020125



ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

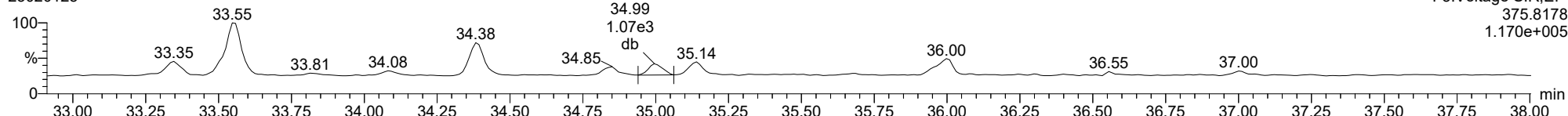
**123478-HxCDF**

23020125



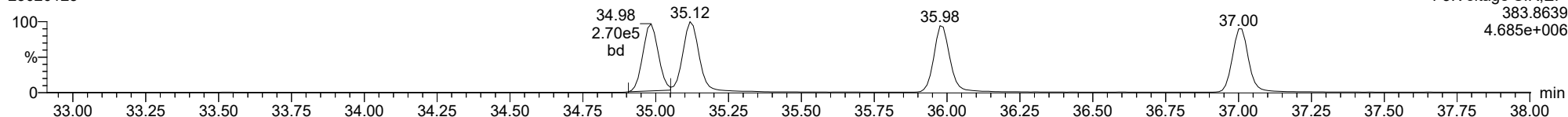
**123478-HxCDF**

23020125



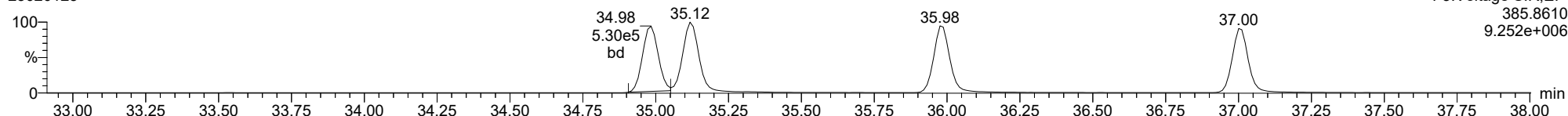
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23020125



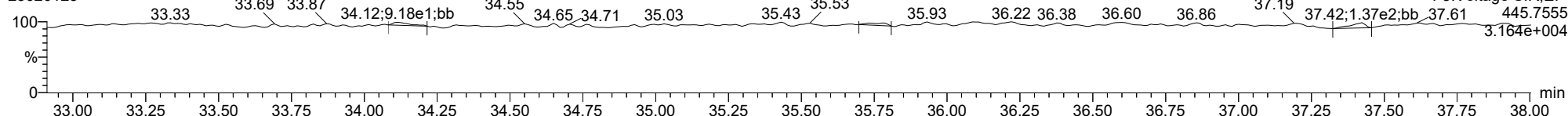
**13C-123478-HxCDF**

23020125



**FUNCTION3 OCDPE**

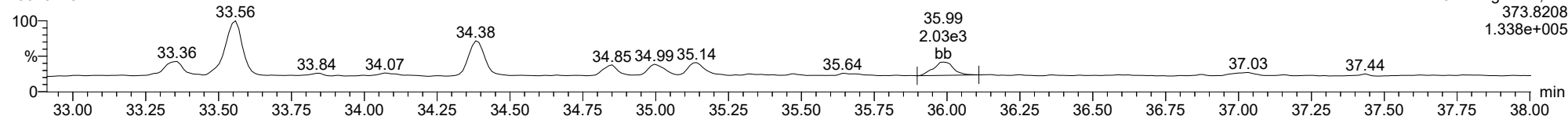
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

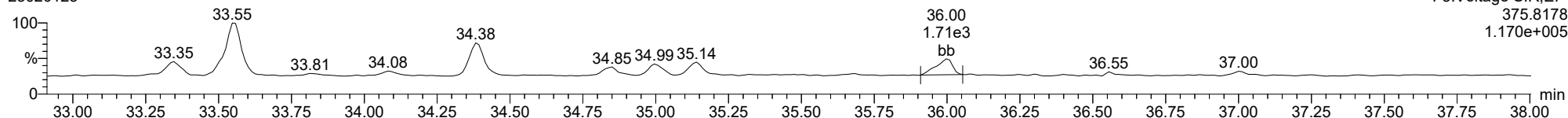
**234678-HxCDF**

23020125



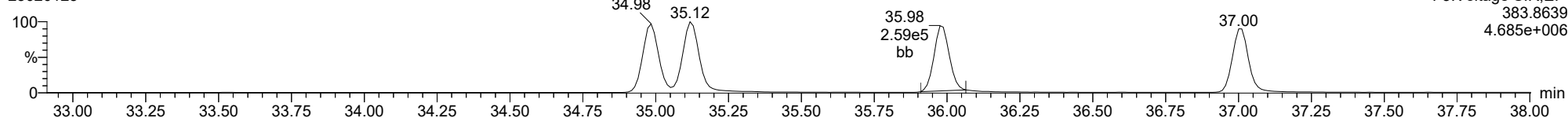
**234678-HxCDF**

23020125



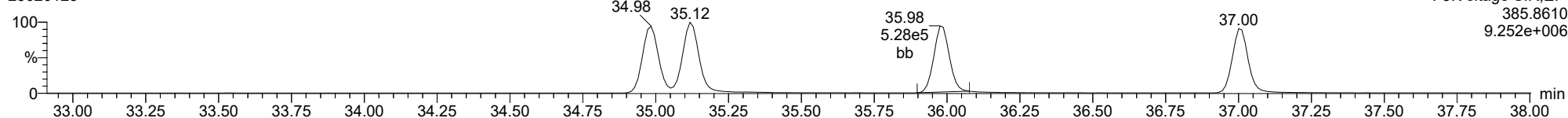
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23020125



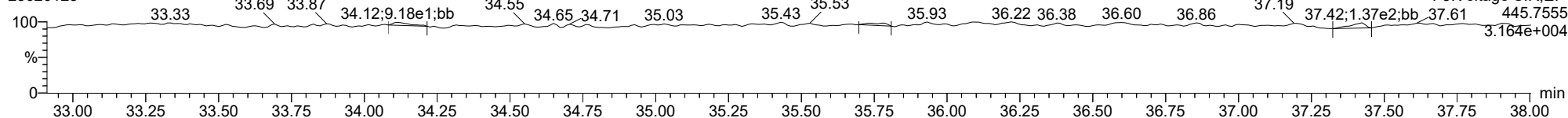
**13C-234678-HxCDF**

23020125



**FUNCTION3 OCDPE**

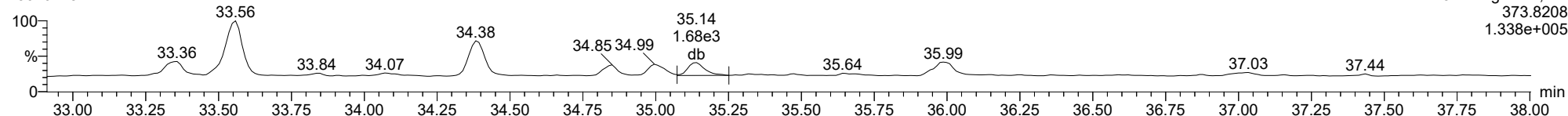
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

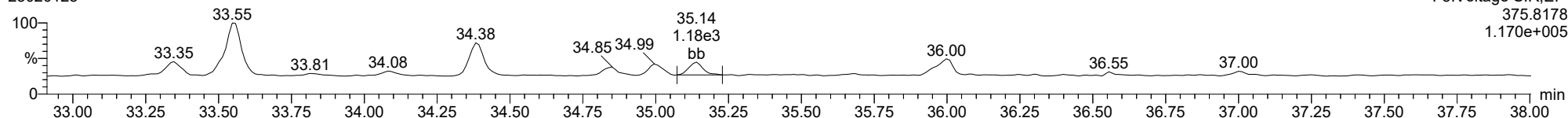
123678-HxCDF

23020125



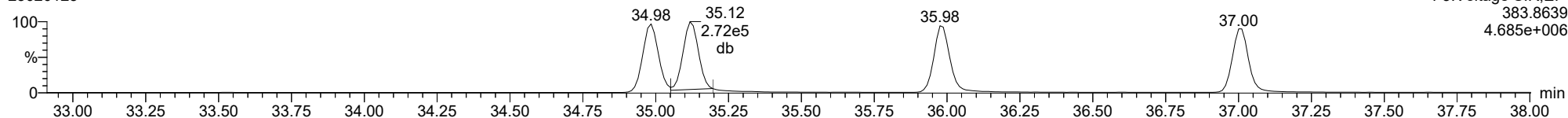
123678-HxCDF

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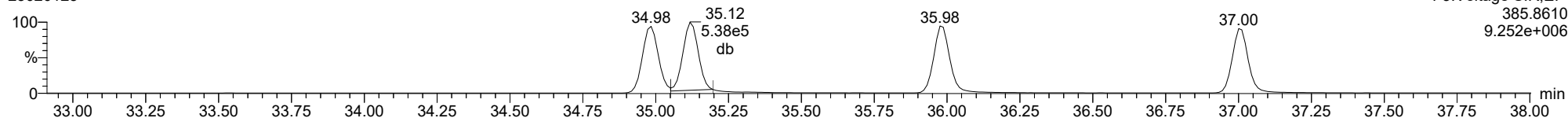
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23020125



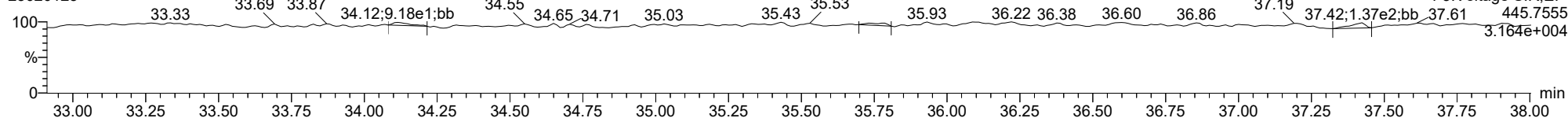
13C-123678-HxCDF

23020125



FUNCTION3 OCDPE

23020125

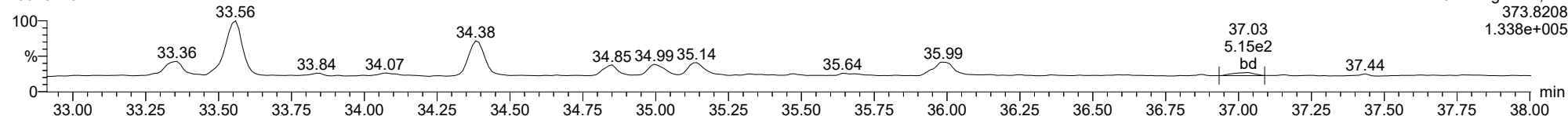




ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

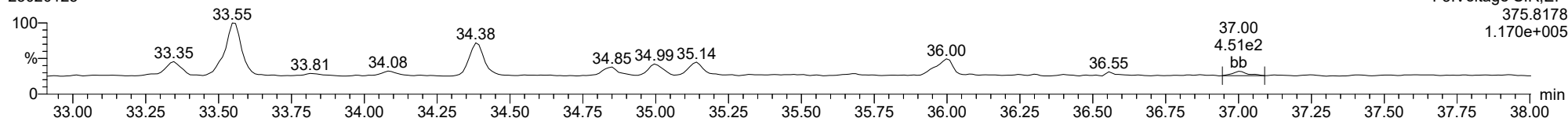
**123789-HxCDF**

23020125



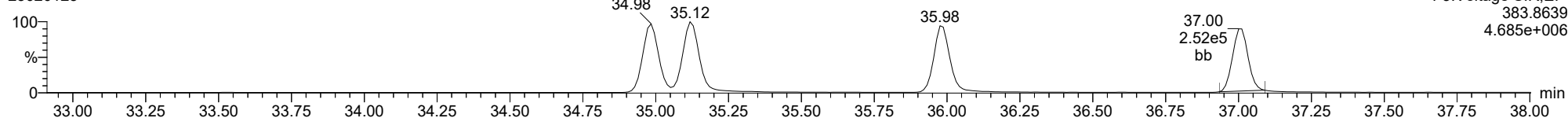
**123789-HxCDF**

23020125



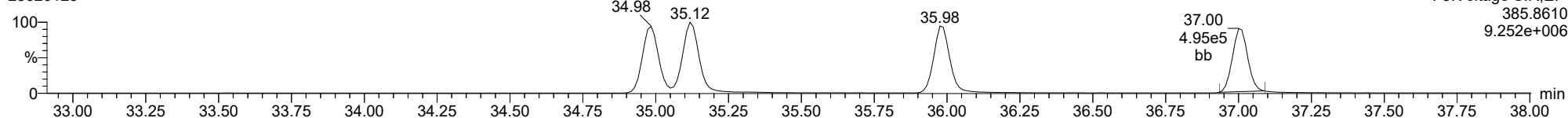
**13C-123789-HxCDF**

23020125



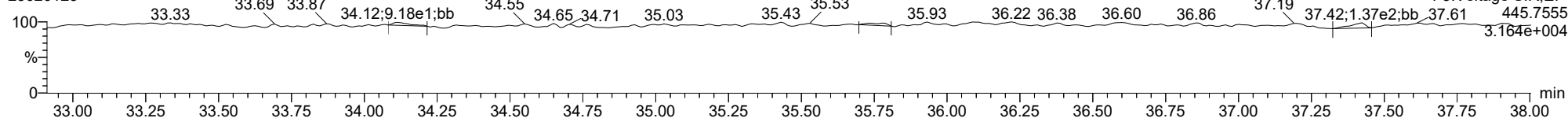
**13C-123789-HxCDF**

23020125



**FUNCTION3 OCDPE**

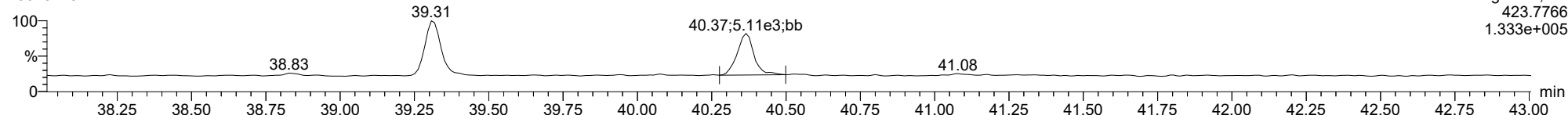
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

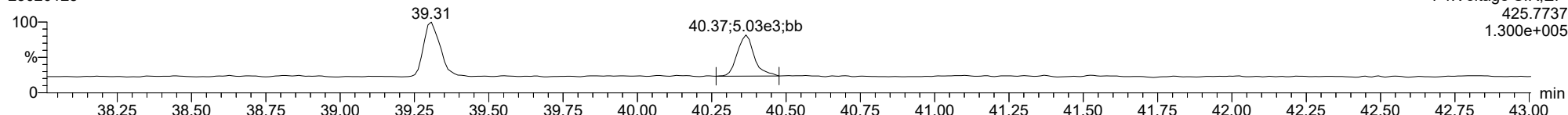
1234678-HpCDD

23020125



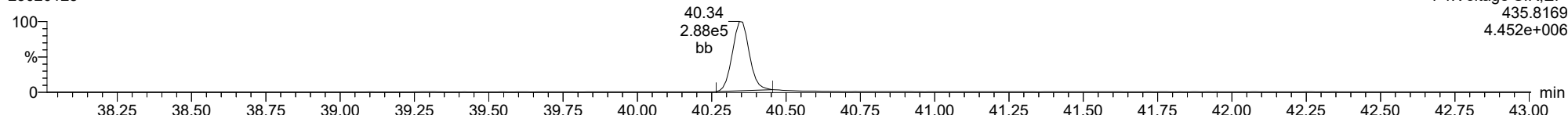
1234678-HpCDD

23020125



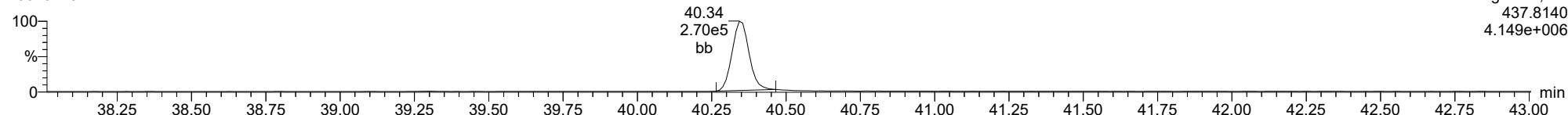
13C-1234678-HpCDD

23020125



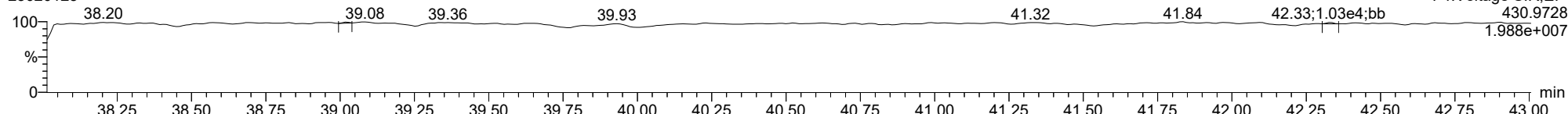
13C-1234678-HpCDD

23020125



FUNCTION4 PFK

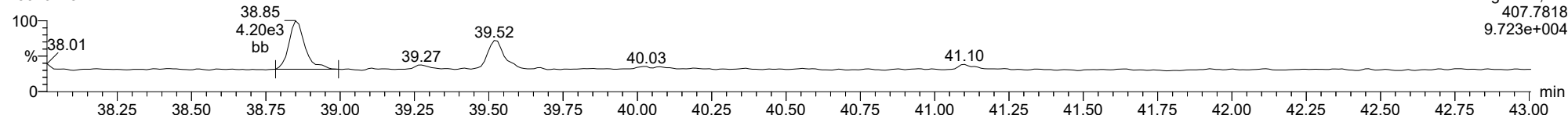
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

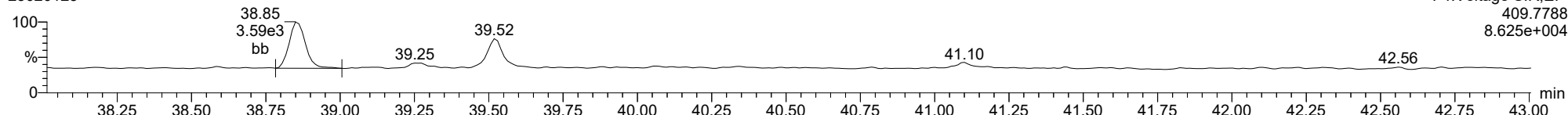
**1234678-HpCDF**

23020125



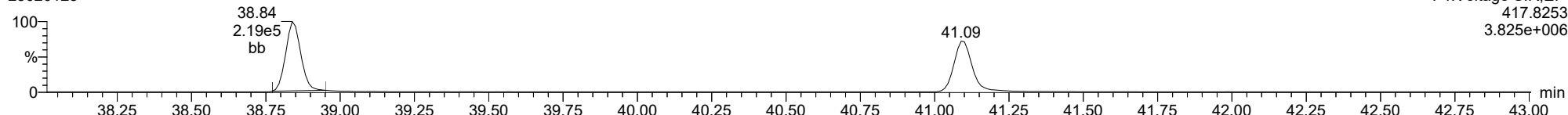
**1234678-HpCDF**

23020125



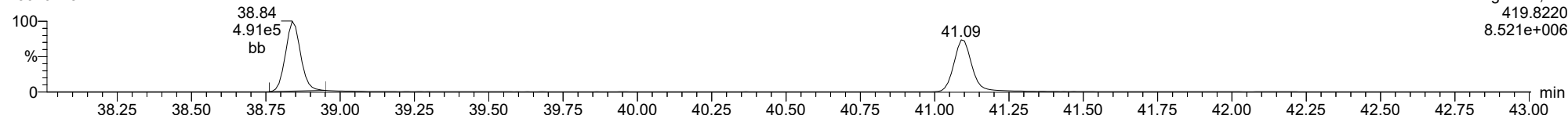
**13C-1234678-HpCDF**

23020125



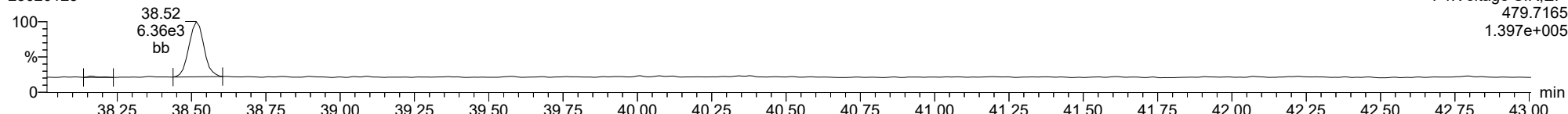
**13C-1234678-HpCDF**

23020125



**FUNCTION4 NCDPE**

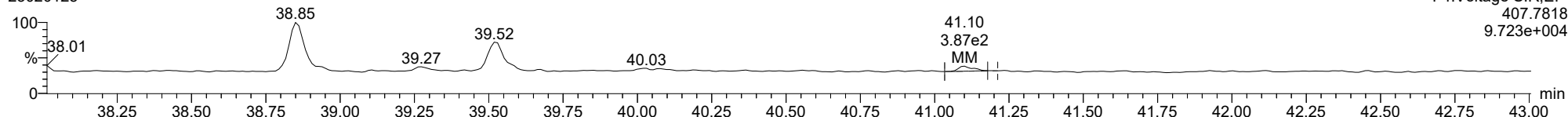
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

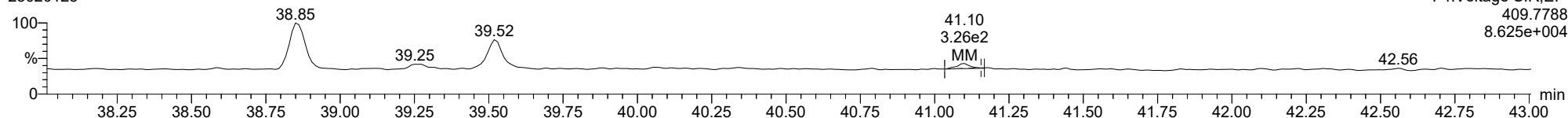
1234789-HpCDF

23020125



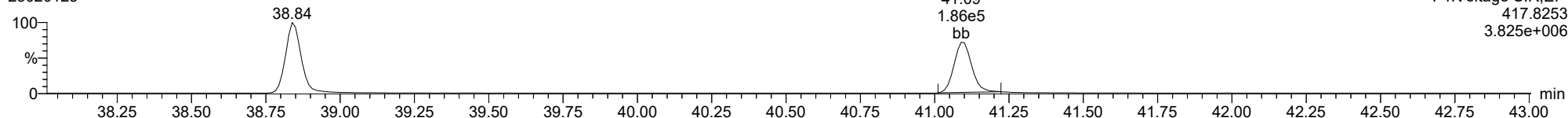
1234789-HpCDF

23020125



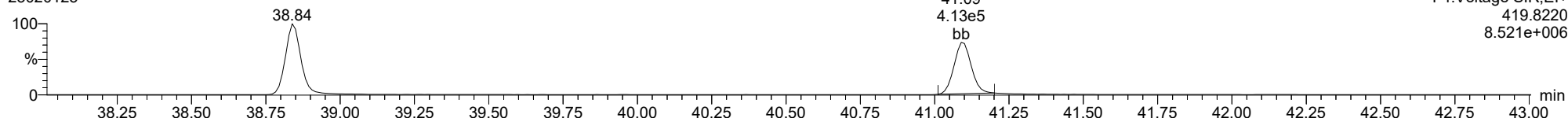
13C-1234789-HpCDF

23020125



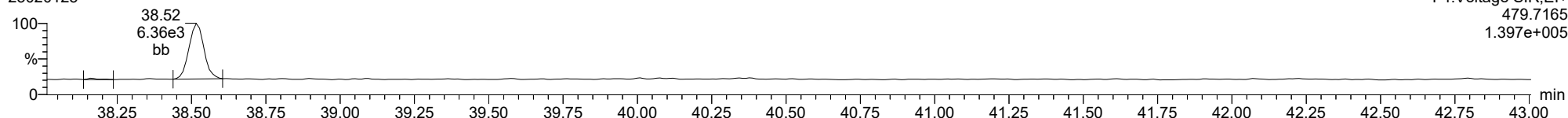
13C-1234789-HpCDF

23020125



FUNCTION4 NCDPE

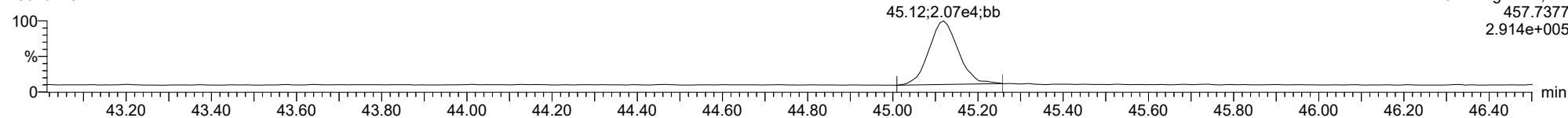
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

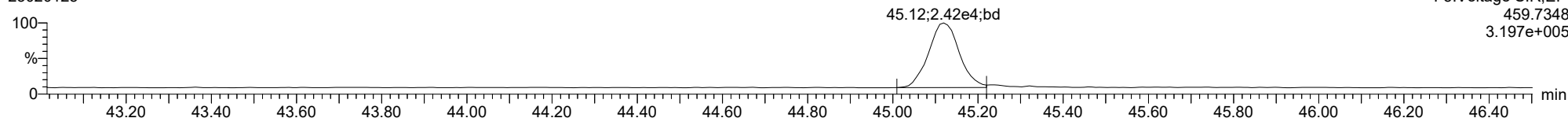
**OCDD**

23020125



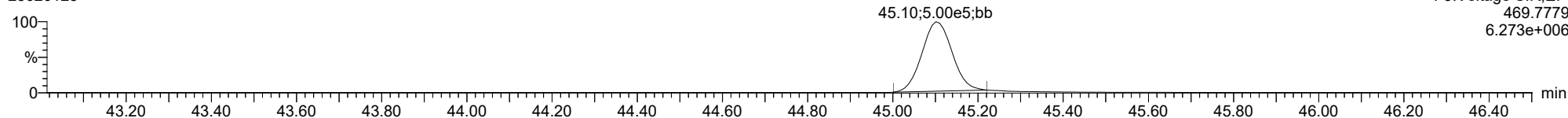
**OCDD**

23020125



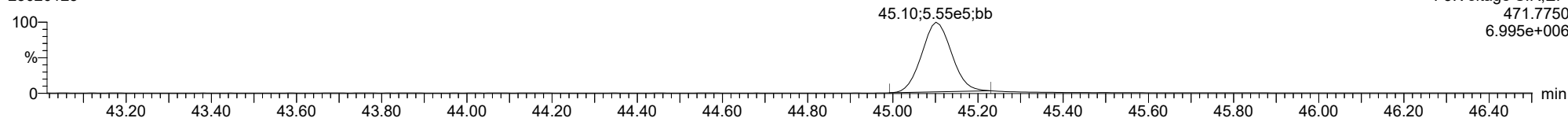
**13C-OCDD**

23020125



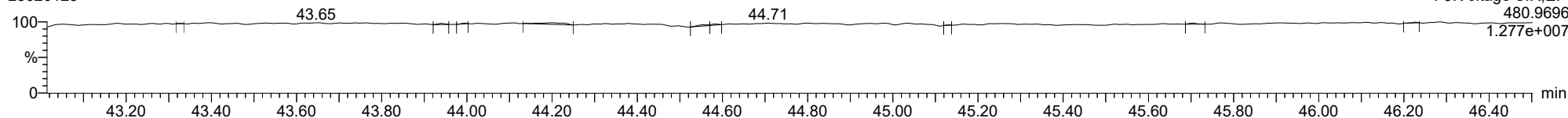
**13C-OCDD**

23020125

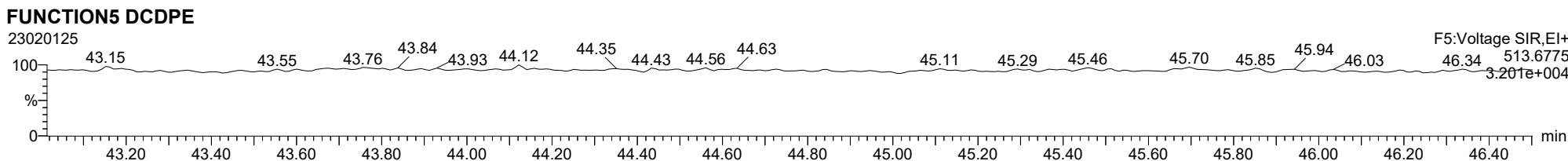
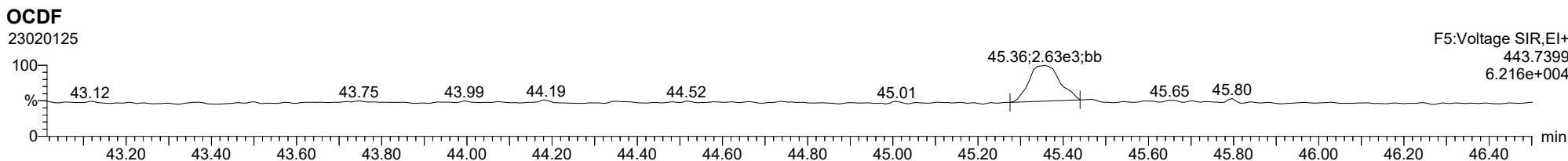
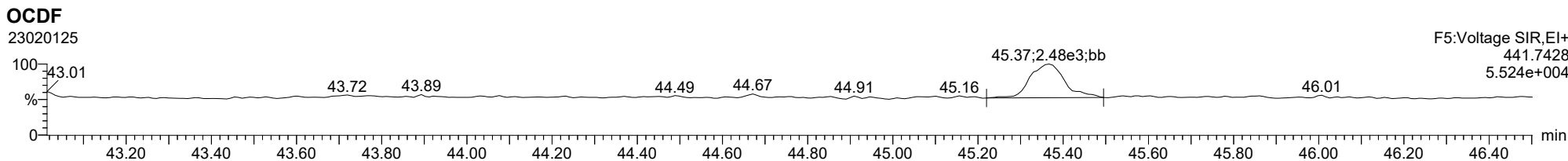


**FUNCTION5 PFK**

23020125



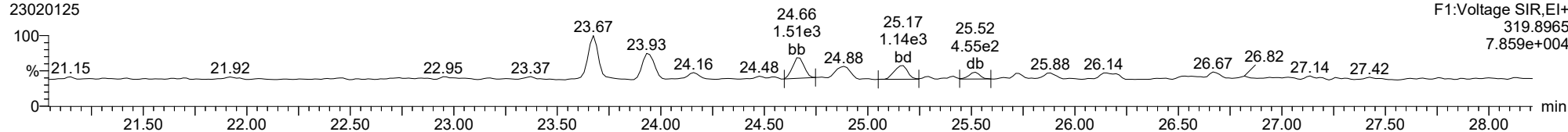
ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk



ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

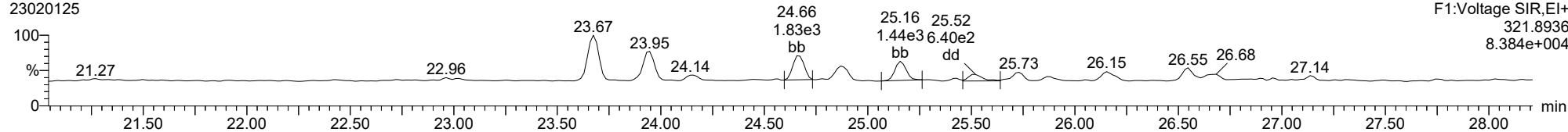
**Total-tetradoxins**

23020125



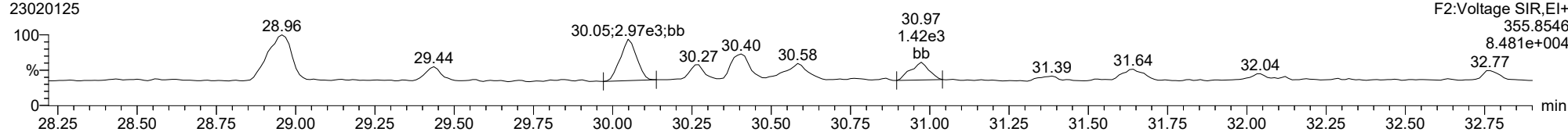
**Total-tetradoxins**

23020125



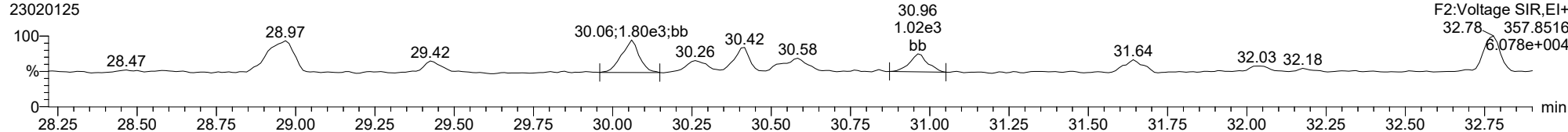
**Total-pentadoxins**

23020125



**Total-pentadoxins**

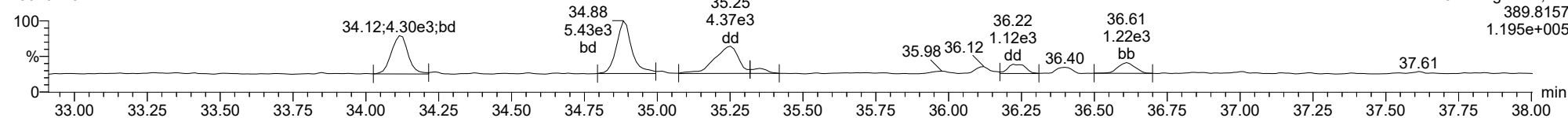
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ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

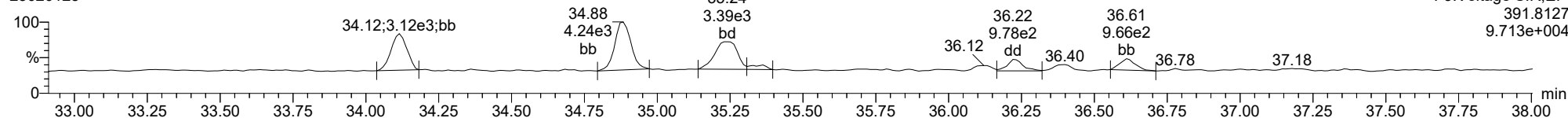
### Total-hexadioxins

23020125



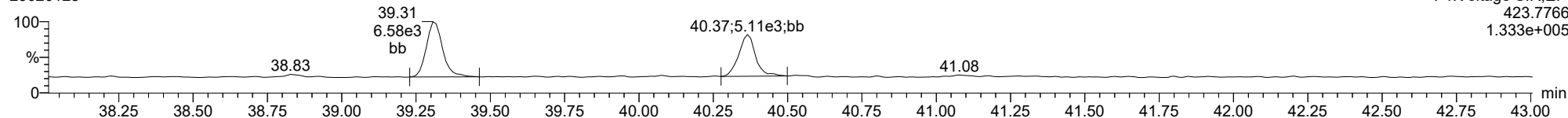
### Total-hexadioxins

23020125



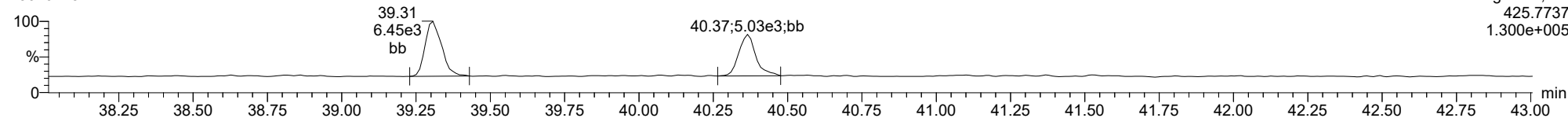
### Total-heptadioxins

23020125



### Total-heptadioxins

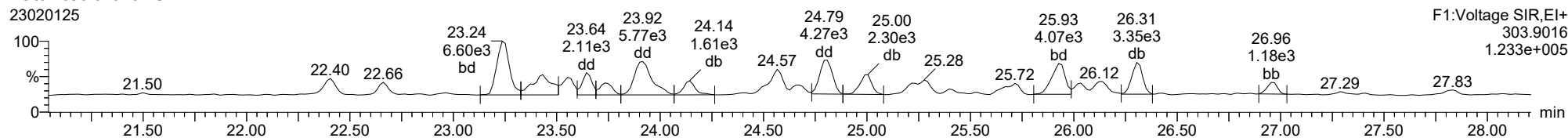
23020125



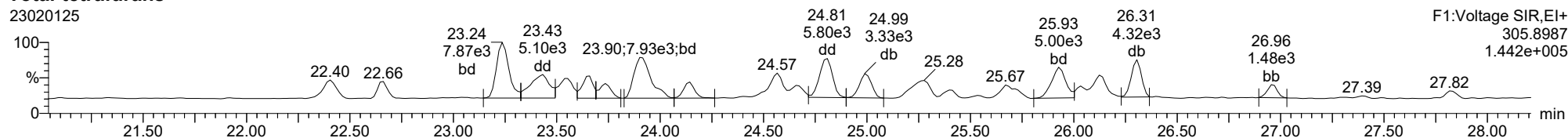


ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

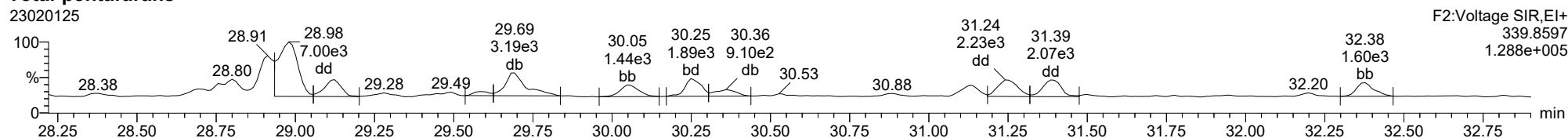
**Total-tetrafurans**



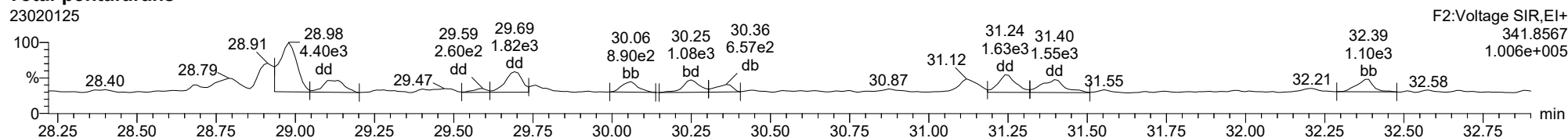
**Total-tetrafurans**



**Total-pentafurans**

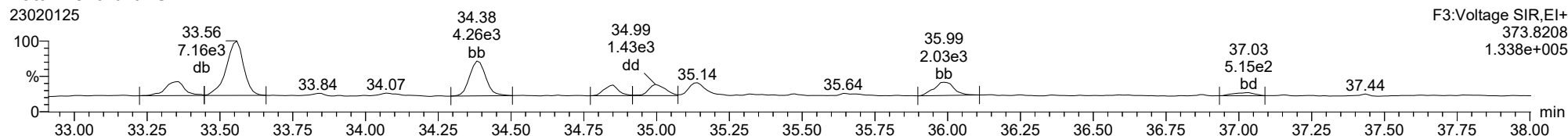


**Total-pentafurans**

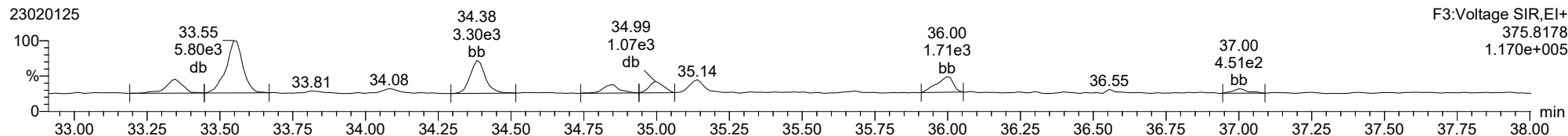


ID: 22L0246-13, Name: 23020125, Date: 02-Feb-2023, Time: 08:58:20, Conditions: AUTOSPEC01, User: pk

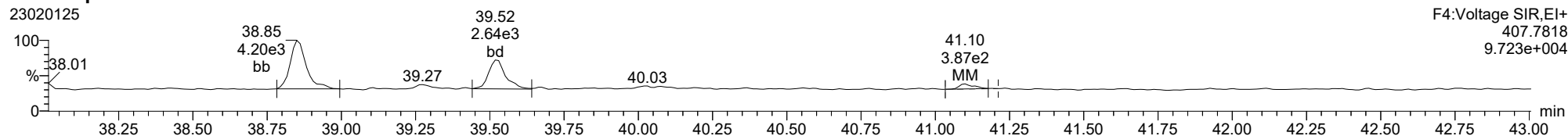
**Total-hexafurans**



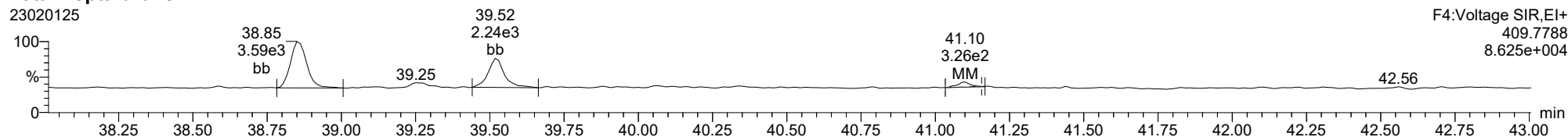
**Total-hexafurans**



**Total-heptafurans**



**Total-heptafurans**





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-14 A File ID: 23020126  
 Sampled: 12/09/22 08:40 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 09:47  
 % Solids: 63.35 Preparation: EPA 1613 Initial/Final: 15.8 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.762	0.655-0.886	0.203	0.999	2.89	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1		0.655-0.886	0.158	0.999	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	1.818	1.318-1.783	0.242	0.999	0.417	ng/kg	EMPC, J
57117-31-4	2,3,4,7,8-PeCDF	1	1.467	1.318-1.783	0.229	0.999	0.590	ng/kg	J
40321-76-4	1,2,3,7,8-PeCDD	1	1.719	1.318-1.783	0.245	0.999	0.766	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.205	1.054-1.426	0.090	0.999	0.483	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.022	1.054-1.426	0.084	0.999	0.573	ng/kg	EMPC, J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.335	1.054-1.426	0.089	0.999	0.775	ng/kg	J
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.132	1.054-1.426	0.097	0.999	0.296	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.062	1.054-1.426	0.128	0.999	0.274	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.316	1.054-1.426	0.121	0.999	0.512	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.605	1.054-1.426	0.127	0.999	0.476	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.112	0.893-1.208	0.118	0.999	1.32	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1		0.893-1.208	0.158	0.999	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.107	0.893-1.208	0.137	2.50	2.75	ng/kg	B
39001-02-0	OCDF	1	1.053	0.757-1.024	0.254	2.50	1.61	ng/kg	EMPC, J, B
3268-87-9	OCDD	1	0.877	0.757-1.024	0.244	9.99	19.6	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	23.8	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	2.94	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	13.3	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	3.11	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	7.29	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	6.49	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	2.54	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	6.52	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.63  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.71



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-14</u>
Sampled:	<u>12/09/22 08:40</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>63.35</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020126</u>
		Analyzed:	<u>02/02/23 09:47</u>
		Initial/Final:	<u>15.8 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.799	0.655-0.886	0.186	69.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.797	0.655-0.886	0.194	81.7	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.537	1.318-1.783	0.166	78.8	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.535	1.318-1.783	0.173	81.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.621	1.318-1.783	0.158	81.1	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.515	0.434-0.587	0.188	71.1	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.505	0.434-0.587	0.183	69.4	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.509	0.434-0.587	0.195	70.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.499	0.434-0.587	0.213	72.0	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.305	1.054-1.426	0.237	77.4	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.229	1.054-1.426	0.229	76.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.446	0.374-0.506	0.156	63.6	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.445	0.374-0.506	0.178	63.6	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.050	0.893-1.208	0.216	69.4	23 - 140 %	
13C12-OCDD		0.913	0.757-1.024	0.188	66.1	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.078	84.2	35 - 197 %	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

Method: T:\Autospec-Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
 Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.927	1.002	4.668e3	6.129e3	0.876	0.762	0.770	1329	2592	6.00e4	8.06e4	45.2	31.1	NO	dd	bd	1.446
12378-PeCDF	30.038	1.000	9.505e2	5.228e2	0.845	1.818	1.550	1797	2603	1.63e4	8.83e3	9.1	3.4	YES	bb	MM	0.209
23478-PeCDF	31.385	1.001	1.321e3	9.004e2	0.911	1.467	1.550	1797	2603	2.08e4	1.54e4	11.6	5.9	NO	db	db	0.295
123478-HxCDF	34.995	1.001	9.909e2	8.222e2	1.182	1.205	1.240	975	855	2.08e4	1.01e4	21.3	11.8	NO	bb	MM	0.242
234678-HxCDF	35.975	1.000	1.652e3	1.237e3	1.229	1.335	1.240	975	855	2.04e4	1.45e4	20.9	17.0	NO	bb	bb	0.388
123678-HxCDF	35.129	1.001	1.148e3	1.124e3	1.248	1.022	1.240	975	855	1.78e4	1.67e4	18.2	19.5	YES	bb	db	0.287
123789-HxCDF	37.000	1.000	5.288e2	4.670e2	1.187	1.132	1.240	975	855	8.12e3	7.53e3	8.3	8.8	NO	bb	bb	0.148
1234678-HpCDF	38.839	1.000	2.333e3	2.097e3	1.204	1.112	1.050	1142	1049	3.49e4	3.65e4	30.5	34.8	NO	bb	bb	0.660
1234789-HpCDF					1.165		1.050	1142	1049								
OCDF	45.367	1.006	2.158e3	2.050e3	1.186	1.053	0.890	1211	1535	2.51e4	2.89e4	20.8	18.8	YES	MM	bb	0.804
2378-TCDD					1.236		0.770	1739	1378								
12378-PeCDD	31.631	1.000	1.355e3	7.883e2	1.087	1.719	1.550	1512	2092	1.77e4	1.13e4	11.7	5.4	NO	bb	bb	0.383
123478-HxCDD	36.109	1.001	4.269e2	4.020e2	0.987	1.062	1.240	1008	1112	8.25e3	6.11e3	8.2	5.5	NO	bd	MM	0.137
123678-HxCDD	36.221	1.000	9.270e2	7.046e2	1.021	1.316	1.240	1008	1112	1.44e4	9.60e3	14.3	8.6	NO	db	dd	0.256
123789-HxCDD	36.599	1.011	8.940e2	5.570e2	0.985	1.605	1.240	1008	1112	1.43e4	1.29e4	14.2	11.6	YES	bb	bb	0.238
1234678-HpCDD	40.354	1.001	4.156e3	3.753e3	1.253	1.107	1.050	1066	958	6.67e4	5.92e4	62.5	61.7	NO	bb	bb	1.374
OCDD	45.111	1.000	2.225e4	2.538e4	1.103	0.877	0.890	1282	1172	2.81e5	3.11e5	218.9	264.9	NO	bb	bb	9.788
13C-2378-TCDF	25.867	1.006	3.786e5	4.739e5	1.768	0.799	0.770	3686	2347	5.88e6	7.41e6	1594.3	3155.3	NO	bb	bb	69.388
13C-12378-PeCDF	30.026	1.168	5.068e5	3.297e5	1.527	1.537	1.550	2199	2450	7.82e6	5.01e6	3556.3	2046.1	NO	bb	bb	78.838
13C-23478-PeCDF	31.363	1.220	4.999e5	3.257e5	1.466	1.535	1.550	2199	2450	7.65e6	5.03e6	3476.6	2051.7	NO	bb	bb	81.035
13C-123478-HxCDF	34.973	0.956	2.159e5	4.189e5	1.054	0.515	0.510	1950	2488	3.50e6	6.84e6	1792.8	2747.7	NO	MM	MM	71.124
13C-123678-HxCDF	35.106	0.960	2.129e5	4.218e5	1.080	0.505	0.510	1950	2488	3.53e6	6.94e6	1809.6	2788.8	NO	db	MM	69.384
13C-234678-HxCDF	35.975	0.983	2.046e5	4.017e5	1.014	0.509	0.510	1950	2488	3.38e6	6.56e6	1732.5	2635.2	NO	bb	bb	70.567
13C-123789-HxCDF	37.000	1.011	1.884e5	3.775e5	0.928	0.499	0.510	1950	2488	3.17e6	6.22e6	1626.1	2499.7	NO	bb	bb	71.992
13C-1234678-HpCDF	38.828	1.061	1.721e5	3.857e5	1.036	0.446	0.440	1666	1951	2.86e6	6.44e6	1714.0	3302.0	NO	bb	bb	63.559
13C-1234789-HpCDF	41.089	1.123	1.501e5	3.372e5	0.905	0.445	0.440	1666	1951	2.19e6	4.86e6	1315.3	2491.7	NO	bb	bb	63.574
13C-1234-TCDD	25.700	0.000	3.077e5	3.871e5	1.000	0.795	0.770	2522	1406	4.87e6	6.15e6	1930.3	4375.5	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.031	2.776e5	3.484e5	1.103	0.797	0.770	2522	1406	4.25e6	5.36e6	1685.5	3811.2	NO	bb	bb	81.681
13C-12378-PeCDD	31.619	1.230	3.184e5	1.964e5	0.914	1.621	1.550	1246	1405	5.02e6	3.03e6	4031.7	2159.2	NO	bb	bb	81.052
13C-123478-HxCDD	36.087	0.986	3.464e5	2.655e5	0.933	1.305	1.240	3378	1584	5.70e6	4.53e6	1687.2	2856.4	NO	bd	bd	77.443
13C-123678-HxCDD	36.209	0.990	3.441e5	2.800e5	0.965	1.229	1.240	3378	1584	5.66e6	4.48e6	1675.0	2827.9	NO	db	db	76.383
13C-1234678-HpCDD	40.332	1.102	2.353e5	2.241e5	0.782	1.050	1.050	1636	2157	3.63e6	3.49e6	2217.6	1617.7	NO	bb	bb	69.363
13C-OCDD	45.092	1.232	4.213e5	4.614e5	0.788	0.913	0.890	1984	1344	5.21e6	5.73e6	2626.3	4265.0	NO	bb	bb	132.202
13C-123789-HxCDD	36.588	0.000	4.740e5	3.730e5	1.000	1.271	1.240	3378	1584	7.52e6	6.03e6	2227.0	3807.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	2.886e5		1.233			1763		4.39e6		2488.1			bb		33.674

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

**ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	1329	2592								
1289-TCDF					0.858		0.770	1329	2592								
13468-PECDF					1.013		1.550	1048	1419								
12389-PECDF					0.844		1.550	1797	2603								
123468-HXCDF	33.335	0.953	1.349e3	1.057e3	1.197	1.276	1.240	975	855	2.04e4	1.45e4	20.9	16.9	NO	bd	bb	0.317
1368-TCDD	23.659	0.893	2.427e3	2.414e3	1.084	1.006	0.770	1739	1378	3.68e4	3.68e4	21.2	26.7	YES	dd	MM	0.713
1289-TCDD					0.975		0.770	1739	1378								
12479-PECDD	28.934	0.915	3.813e3	2.629e3	1.837	1.450	1.550	1512	2092	3.71e4	2.51e4	24.6	12.0	NO	bb	bb	0.681
12389-PECDD	32.032	1.013	4.079e2	2.136e2	1.252	1.909	1.550	1512	2092	7.54e3	4.39e3	5.0	2.1	YES	bb	bb	0.096
124679-HXCDD	34.104	0.945	3.516e3	2.971e3	1.033	1.183	1.240	1008	1112	5.57e4	5.05e4	55.3	45.4	NO	bb	bb	1.026
1234679-HPCDD	39.296	0.974	5.450e3	5.718e3	1.286	0.953	1.050	1066	958	8.80e4	8.53e4	82.5	89.1	NO	bb	bb	1.890
Total-tetrafurans			4.144e4		0.933			1329		5.80e5							11.926
Total-penta1			1.706e4					1048		2.48e5							3.690
Total-pentafurans			1.318e4		0.866			1797		2.07e5							2.974
Total-hexafurans			1.523e4		1.208			975		2.36e5							3.649
Total-heptafurans			4.236e3		1.185			1142		6.08e4							1.273
Total-Furans			9.248e4		1.067			1329		1.35e6							23.832
Total-tetradioxins			4.510e3		1.099			1739		6.63e4							1.469
Total-pentadioxins			7.342e3		1.392			1512		8.55e4							1.554
Total-hexadioxins			1.090e4		1.007			1008		1.58e5							3.249
Total-heptadioxins			9.605e3		1.269			1066		1.55e5							3.265
Total-Dioxins			5.461e4		1.165			1739		7.45e5							19.324
Total-TEQ			1.471e5					1739		2.10e6							43.157
FUNCTION1 PFK			4.189e7					1112542		2.74e8							
FUNCTION2 PFK			3.883e6					706159		1.24e7							0.000
FUNCTION3 PFK			5.731e6					502928		7.29e7							0.000
FUNCTION4 PFK			2.296e5					401388		1.59e6							
FUNCTION5 PFK			0.000e0					215882		0.00e0							
FUNCTION1 HXCD...			1.831e4					1114		2.95e5							0.000
FUNCTION1 HPCD...			1.988e3					1450		3.91e4							0.000
FUNCTION2 HPCD...			3.232e3					1145		5.06e4							0.000
FUNCTION3 OCDPE			1.036e3					913		1.84e4							0.000
FUNCTION4 NCDPE			4.587e3					963		7.63e4							0.000
FUNCTION5 DCDPE			4.303e2					834		9.44e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33

Calibration: T:\Autospec\Curves\230201CIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.92	6.326e3	8.011e3	0.933	0.79	0.77	51.6	YES	NO	db	bb	1.803
2	Total-tetrafurans	23.72	6.816e2	8.809e2	0.933	0.77	0.77	8.4	YES	NO	dd	db	0.197
3	Total-tetrafurans	23.63	1.841e3	2.151e3	0.933	0.86	0.77	21.3	YES	NO	dd	dd	0.502
4	Total-tetrafurans	23.52	9.646e2	1.182e3	0.933	0.82	0.77	12.4	YES	NO	dd	dd	0.270
5	Total-tetrafurans	23.22	4.887e3	6.552e3	0.933	0.75	0.77	58.6	YES	NO	bd	bd	1.439
6	Total-tetrafurans	22.65	1.125e3	1.526e3	0.933	0.74	0.77	13.9	YES	NO	db	bb	0.333
7	Total-tetrafurans	22.39	1.714e3	2.206e3	0.933	0.78	0.77	14.0	YES	NO	bb	bb	0.493
8	Total-tetrafurans	26.29	5.038e3	6.206e3	0.933	0.81	0.77	56.6	YES	NO	db	db	1.414
9	Total-tetrafurans	26.12	1.123e3	1.621e3	0.933	0.69	0.77	12.0	YES	NO	dd	dd	0.345
10	Total-tetrafurans	26.00	3.396e2	4.131e2	0.933	0.82	0.77	5.0	YES	NO	dd	dd	0.095
11	2378-TCDF	25.93	4.668e3	6.129e3	0.876	0.76	0.77	45.2	YES	NO	dd	bd	1.446
12	Total-tetrafurans	25.40	5.162e2	7.096e2	0.933	0.73	0.77	5.2	YES	NO	db	db	0.154
13	Total-tetrafurans	25.26	3.870e3	4.540e3	0.933	0.85	0.77	35.5	YES	NO	bd	bd	1.058
14	Total-tetrafurans	24.97	1.330e3	1.874e3	0.933	0.71	0.77	15.3	YES	NO	dd	db	0.403
15	Total-tetrafurans	24.79	3.514e3	4.478e3	0.933	0.78	0.77	38.4	YES	NO	dd	dd	1.005
16	Total-tetrafurans	24.66	9.169e2	1.115e3	0.933	0.82	0.77	8.4	YES	NO	dd	dd	0.256
17	Total-tetrafurans	24.13	6.587e2	7.787e2	0.933	0.85	0.77	10.3	YES	NO	bb	bb	0.181
18	Total-tetrafurans	26.94	1.930e3	2.308e3	0.933	0.84	0.77	24.3	YES	NO	bb	bb	0.533

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.32	1.706e4	1.124e4		1.52	1.55	237.0	YES	NO	bb	bb	3.690

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	32.35	2.303e3	1.429e3	0.866	1.61	1.55	18.8	YES	NO	db	bb	0.518
2	23478-PeCDF	31.39	1.321e3	9.004e2	0.911	1.47	1.55	11.6	YES	NO	db	db	0.295
3	Total-pentafurans	31.23	2.720e3	1.704e3	0.866	1.60	1.55	23.6	YES	NO	dd	dd	0.614
4	Total-pentafurans	30.25	1.119e3	6.380e2	0.866	1.75	1.55	9.7	YES	NO	bd	bb	0.244
5	Total-pentafurans	28.97	5.714e3	3.667e3	0.866	1.56	1.55	51.8	YES	NO	dd	dd	1.303

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

**ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk****HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.00	5.288e2	4.670e2	1.187	1.13	1.24	8.3	YES	NO	bb	bb	0.148
2	234678-HxCDF	35.98	1.652e3	1.237e3	1.229	1.34	1.24	20.9	YES	NO	bb	bb	0.388
3	123478-HxCDF	35.00	9.909e2	8.222e2	1.182	1.21	1.24	21.3	YES	NO	bb	MM	0.242
4	Total-hexafurans	34.37	4.697e3	3.492e3	1.208	1.35	1.24	77.5	YES	NO	bb	bb	1.110
5	Total-hexafurans	33.55	6.017e3	4.639e3	1.208	1.30	1.24	93.4	YES	NO	db	bb	1.445
6	123468-HXCDF	33.33	1.349e3	1.057e3	1.197	1.28	1.24	20.9	YES	NO	bd	bb	0.317

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.52	1.903e3	1.894e3	1.185	1.00	1.05	22.7	YES	NO	bb	bb	0.613
2	1234678-HpCDF	38.84	2.333e3	2.097e3	1.204	1.11	1.05	30.5	YES	NO	bb	bb	0.660



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.92	6.326e3	8.011e3	0.933	0.79	0.77	51.6	YES	NO	db	bb	1.803
2	Total-tetrafurans	23.72	6.816e2	8.809e2	0.933	0.77	0.77	8.4	YES	NO	dd	db	0.197
3	Total-tetrafurans	23.63	1.841e3	2.151e3	0.933	0.86	0.77	21.3	YES	NO	dd	dd	0.502
4	Total-tetrafurans	23.52	9.646e2	1.182e3	0.933	0.82	0.77	12.4	YES	NO	dd	dd	0.270
5	Total-tetrafurans	23.22	4.887e3	6.552e3	0.933	0.75	0.77	58.6	YES	NO	bd	bd	1.439
6	Total-tetrafurans	22.65	1.125e3	1.526e3	0.933	0.74	0.77	13.9	YES	NO	db	bb	0.333
7	Total-tetrafurans	22.39	1.714e3	2.206e3	0.933	0.78	0.77	14.0	YES	NO	bb	bb	0.493
8	Total-tetrafurans	26.29	5.038e3	6.206e3	0.933	0.81	0.77	56.6	YES	NO	db	db	1.414
9	Total-tetrafurans	26.12	1.123e3	1.621e3	0.933	0.69	0.77	12.0	YES	NO	dd	dd	0.345
10	Total-tetrafurans	26.00	3.396e2	4.131e2	0.933	0.82	0.77	5.0	YES	NO	dd	dd	0.095
11	2378-TCDF	25.93	4.668e3	6.129e3	0.876	0.76	0.77	45.2	YES	NO	dd	bd	1.446
12	Total-tetrafurans	25.40	5.162e2	7.096e2	0.933	0.73	0.77	5.2	YES	NO	db	db	0.154
13	Total-tetrafurans	25.26	3.870e3	4.540e3	0.933	0.85	0.77	35.5	YES	NO	bd	bd	1.058
14	Total-tetrafurans	24.97	1.330e3	1.874e3	0.933	0.71	0.77	15.3	YES	NO	dd	db	0.403
15	Total-tetrafurans	24.79	3.514e3	4.478e3	0.933	0.78	0.77	38.4	YES	NO	dd	dd	1.005
16	Total-tetrafurans	24.66	9.169e2	1.115e3	0.933	0.82	0.77	8.4	YES	NO	dd	dd	0.256
17	Total-tetrafurans	24.13	6.587e2	7.787e2	0.933	0.85	0.77	10.3	YES	NO	bb	bb	0.181
18	Total-Furans	27.82	1.331e3	1.579e3	1.067	0.84	0.77	15.5	YES	NO	bb	bb	0.320
19	Total-tetrafurans	26.94	1.930e3	2.308e3	0.933	0.84	0.77	24.3	YES	NO	bb	bb	0.533
20	Total-pentafurans	32.35	2.303e3	1.429e3	0.866	1.61	1.55	18.8	YES	NO	db	bb	0.518
21	23478-PeCDF	31.39	1.321e3	9.004e2	0.911	1.47	1.55	11.6	YES	NO	db	db	0.295
22	Total-pentafurans	31.23	2.720e3	1.704e3	0.866	1.60	1.55	23.6	YES	NO	dd	dd	0.614
23	Total-pentafurans	30.25	1.119e3	6.380e2	0.866	1.75	1.55	9.7	YES	NO	bd	bb	0.244
24	Total-pentafurans	28.97	5.714e3	3.667e3	0.866	1.56	1.55	51.8	YES	NO	dd	dd	1.303
25	123789-HxCDF	37.00	5.288e2	4.670e2	1.187	1.13	1.24	8.3	YES	NO	bb	bb	0.148
26	234678-HxCDF	35.98	1.652e3	1.237e3	1.229	1.34	1.24	20.9	YES	NO	bb	bb	0.388
27	123478-HxCDF	35.00	9.909e2	8.222e2	1.182	1.21	1.24	21.3	YES	NO	bb	MM	0.242
28	Total-hexafurans	34.37	4.697e3	3.492e3	1.208	1.35	1.24	77.5	YES	NO	bb	bb	1.110
29	Total-hexafurans	33.55	6.017e3	4.639e3	1.208	1.30	1.24	93.4	YES	NO	db	bb	1.445
30	123468-HXCDF	33.33	1.349e3	1.057e3	1.197	1.28	1.24	20.9	YES	NO	bd	bb	0.317
31	Total-heptafurans	39.52	1.903e3	1.894e3	1.185	1.00	1.05	22.7	YES	NO	bb	bb	0.613
32	1234678-HpCDF	38.84	2.333e3	2.097e3	1.204	1.11	1.05	30.5	YES	NO	bb	bb	0.660
33	Total-penta1	27.32	1.706e4	1.124e4		1.52	1.55	237.0	YES	NO	bb	bb	3.690

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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

## TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.14	8.625e2	1.002e3	1.099	0.86	0.77	6.7	YES	NO	bb	bb	0.271
2	Total-tetradoxins	24.87	7.624e2	9.052e2	1.099	0.84	0.77	6.1	YES	NO	bb	bb	0.242
3	Total-tetradoxins	24.66	9.457e2	1.302e3	1.099	0.73	0.77	8.1	YES	NO	bb	bb	0.327
4	Total-tetradoxins	23.92	1.586e3	1.845e3	1.099	0.86	0.77	14.0	YES	NO	db	bb	0.499
5	Total-tetradoxins	25.70	3.542e2	5.366e2	1.099	0.66	0.77	3.2	YES	NO	bb	bb	0.130

## PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.93	3.813e3	2.629e3	1.837	1.45	1.55	24.6	YES	NO	bb	bb	0.681
2	12378-PeCDD	31.63	1.355e3	7.883e2	1.087	1.72	1.55	11.7	YES	NO	bb	bb	0.383
3	Total-pentadoxins	30.96	8.754e2	5.057e2	1.392	1.73	1.55	8.2	YES	NO	bb	bb	0.193
4	Total-pentadoxins	30.39	1.298e3	8.309e2	1.392	1.56	1.55	12.1	YES	NO	db	bd	0.297

## HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.22	9.270e2	7.046e2	1.021	1.32	1.24	14.3	YES	NO	db	dd	0.256
2	123478-HxCDD	36.11	4.269e2	4.020e2	0.987	1.06	1.24	8.2	YES	NO	bd	MM	0.137
3	Total-hexadoxins	35.24	3.466e3	3.037e3	1.007	1.14	1.24	39.4	YES	NO	bb	bd	1.045
4	Total-hexadoxins	34.87	2.565e3	2.310e3	1.007	1.11	1.24	39.7	YES	NO	bd	bb	0.784
5	124679-HXCDD	34.10	3.516e3	2.971e3	1.033	1.18	1.24	55.3	YES	NO	bb	bb	1.026

## HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	4.156e3	3.753e3	1.253	1.11	1.05	62.5	YES	NO	bb	bb	1.374
2	1234679-HPCDD	39.30	5.450e3	5.718e3	1.286	0.95	1.05	82.5	YES	NO	bb	bb	1.890

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.14	8.625e2	1.002e3	1.099	0.86	0.77	6.7	YES	NO	bb	bb	0.271
2	Total-tetradoxins	24.87	7.624e2	9.052e2	1.099	0.84	0.77	6.1	YES	NO	bb	bb	0.242
3	Total-tetradoxins	24.66	9.457e2	1.302e3	1.099	0.73	0.77	8.1	YES	NO	bb	bb	0.327
4	Total-tetradoxins	23.92	1.586e3	1.845e3	1.099	0.86	0.77	14.0	YES	NO	db	bb	0.499
5	Total-tetradoxins	25.70	3.542e2	5.366e2	1.099	0.66	0.77	3.2	YES	NO	bb	bb	0.130
6	12479-PECDD	28.93	3.813e3	2.629e3	1.837	1.45	1.55	24.6	YES	NO	bb	bb	0.681
7	12378-PeCDD	31.63	1.355e3	7.883e2	1.087	1.72	1.55	11.7	YES	NO	bb	bb	0.383
8	Total-pentadoxins	30.96	8.754e2	5.057e2	1.392	1.73	1.55	8.2	YES	NO	bb	bb	0.193
9	Total-pentadoxins	30.39	1.298e3	8.309e2	1.392	1.56	1.55	12.1	YES	NO	db	bd	0.297
10	123678-HxCDD	36.22	9.270e2	7.046e2	1.021	1.32	1.24	14.3	YES	NO	db	dd	0.256
11	123478-HxCDD	36.11	4.269e2	4.020e2	0.987	1.06	1.24	8.2	YES	NO	bd	MM	0.137
12	Total-hexadoxins	35.24	3.466e3	3.037e3	1.007	1.14	1.24	39.4	YES	NO	bb	bd	1.045
13	Total-hexadoxins	34.87	2.565e3	2.310e3	1.007	1.11	1.24	39.7	YES	NO	bd	bb	0.784
14	124679-HXCDD	34.10	3.516e3	2.971e3	1.033	1.18	1.24	55.3	YES	NO	bb	bb	1.026
15	1234678-HpCDD	40.35	4.156e3	3.753e3	1.253	1.11	1.05	62.5	YES	NO	bb	bb	1.374
16	1234679-HPCDD	39.30	5.450e3	5.718e3	1.286	0.95	1.05	82.5	YES	NO	bb	bb	1.890
17	OCDD	45.11	2.225e4	2.538e4	1.103	0.88	0.89	218.9	YES	NO	bb	bb	9.788

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.92	6.326e3	8.011e3	0.933	0.79	0.77	51.6	YES	NO	db	bb	1.803
2	Total-tetrafurans	23.72	6.816e2	8.809e2	0.933	0.77	0.77	8.4	YES	NO	dd	db	0.197
3	Total-tetrafurans	23.63	1.841e3	2.151e3	0.933	0.86	0.77	21.3	YES	NO	dd	dd	0.502
4	Total-tetrafurans	23.52	9.646e2	1.182e3	0.933	0.82	0.77	12.4	YES	NO	dd	dd	0.270
5	Total-tetrafurans	23.22	4.887e3	6.552e3	0.933	0.75	0.77	58.6	YES	NO	bd	bd	1.439
6	Total-tetrafurans	22.65	1.125e3	1.526e3	0.933	0.74	0.77	13.9	YES	NO	db	bb	0.333
7	Total-tetrafurans	22.39	1.714e3	2.206e3	0.933	0.78	0.77	14.0	YES	NO	bb	bb	0.493
8	Total-tetrafurans	26.29	5.038e3	6.206e3	0.933	0.81	0.77	56.6	YES	NO	db	db	1.414
9	Total-tetrafurans	26.12	1.123e3	1.621e3	0.933	0.69	0.77	12.0	YES	NO	dd	dd	0.345
10	Total-tetrafurans	26.00	3.396e2	4.131e2	0.933	0.82	0.77	5.0	YES	NO	dd	dd	0.095
11	2378-TCDF	25.93	4.668e3	6.129e3	0.876	0.76	0.77	45.2	YES	NO	dd	bd	1.446
12	Total-tetrafurans	25.40	5.162e2	7.096e2	0.933	0.73	0.77	5.2	YES	NO	db	db	0.154
13	Total-tetrafurans	25.26	3.870e3	4.540e3	0.933	0.85	0.77	35.5	YES	NO	bd	bd	1.058
14	Total-tetrafurans	24.97	1.330e3	1.874e3	0.933	0.71	0.77	15.3	YES	NO	dd	db	0.403
15	Total-tetrafurans	24.79	3.514e3	4.478e3	0.933	0.78	0.77	38.4	YES	NO	dd	dd	1.005
16	Total-tetrafurans	24.66	9.169e2	1.115e3	0.933	0.82	0.77	8.4	YES	NO	dd	dd	0.256
17	Total-tetrafurans	24.13	6.587e2	7.787e2	0.933	0.85	0.77	10.3	YES	NO	bb	bb	0.181
18	Total-Furans	27.82	1.331e3	1.579e3	1.067	0.84	0.77	15.5	YES	NO	bb	bb	0.320
19	Total-tetrafurans	26.94	1.930e3	2.308e3	0.933	0.84	0.77	24.3	YES	NO	bb	bb	0.533
20	Total-pentafurans	32.35	2.303e3	1.429e3	0.866	1.61	1.55	18.8	YES	NO	db	bb	0.518
21	23478-PeCDF	31.39	1.321e3	9.004e2	0.911	1.47	1.55	11.6	YES	NO	db	db	0.295
22	Total-pentafurans	31.23	2.720e3	1.704e3	0.866	1.60	1.55	23.6	YES	NO	dd	dd	0.614
23	Total-pentafurans	30.25	1.119e3	6.380e2	0.866	1.75	1.55	9.7	YES	NO	bd	bb	0.244
24	Total-pentafurans	28.97	5.714e3	3.667e3	0.866	1.56	1.55	51.8	YES	NO	dd	dd	1.303
25	123789-HxCDF	37.00	5.288e2	4.670e2	1.187	1.13	1.24	8.3	YES	NO	bb	bb	0.148
26	234678-HxCDF	35.98	1.652e3	1.237e3	1.229	1.34	1.24	20.9	YES	NO	bb	bb	0.388
27	123478-HxCDF	35.00	9.909e2	8.222e2	1.182	1.21	1.24	21.3	YES	NO	bb	MM	0.242
28	Total-hexafurans	34.37	4.697e3	3.492e3	1.208	1.35	1.24	77.5	YES	NO	bb	bb	1.110
29	Total-hexafurans	33.55	6.017e3	4.639e3	1.208	1.30	1.24	93.4	YES	NO	db	bb	1.445
30	123468-HXCDF	33.33	1.349e3	1.057e3	1.197	1.28	1.24	20.9	YES	NO	bd	bb	0.317
31	Total-heptafurans	39.52	1.903e3	1.894e3	1.185	1.00	1.05	22.7	YES	NO	bb	bb	0.613
32	1234678-HpCDF	38.84	2.333e3	2.097e3	1.204	1.11	1.05	30.5	YES	NO	bb	bb	0.660
33	Total-penta1	27.32	1.706e4	1.124e4		1.52	1.55	237.0	YES	NO	bb	bb	3.690
34	Total-tetradiioxins	25.14	8.625e2	1.002e3	1.099	0.86	0.77	6.7	YES	NO	bb	bb	0.271
35	Total-tetradiioxins	24.87	7.624e2	9.052e2	1.099	0.84	0.77	6.1	YES	NO	bb	bb	0.242
36	Total-tetradiioxins	24.66	9.457e2	1.302e3	1.099	0.73	0.77	8.1	YES	NO	bb	bb	0.327
37	Total-tetradiioxins	23.92	1.586e3	1.845e3	1.099	0.86	0.77	14.0	YES	NO	db	bb	0.499

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk****TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-tetradoxins	25.70	3.542e2	5.366e2	1.099	0.66	0.77	3.2	YES	NO	bb	bb	0.130
39	12479-PECDD	28.93	3.813e3	2.629e3	1.837	1.45	1.55	24.6	YES	NO	bb	bb	0.681
40	12378-PeCDD	31.63	1.355e3	7.883e2	1.087	1.72	1.55	11.7	YES	NO	bb	bb	0.383
41	Total-pentadoxins	30.96	8.754e2	5.057e2	1.392	1.73	1.55	8.2	YES	NO	bb	bb	0.193
42	Total-pentadoxins	30.39	1.298e3	8.309e2	1.392	1.56	1.55	12.1	YES	NO	db	bd	0.297
43	123678-HxCDD	36.22	9.270e2	7.046e2	1.021	1.32	1.24	14.3	YES	NO	db	dd	0.256
44	123478-HxCDD	36.11	4.269e2	4.020e2	0.987	1.06	1.24	8.2	YES	NO	bd	MM	0.137
45	Total-hexadoxins	35.24	3.466e3	3.037e3	1.007	1.14	1.24	39.4	YES	NO	bb	bd	1.045
46	Total-hexadoxins	34.87	2.565e3	2.310e3	1.007	1.11	1.24	39.7	YES	NO	bd	bb	0.784
47	124679-HXCDD	34.10	3.516e3	2.971e3	1.033	1.18	1.24	55.3	YES	NO	bb	bb	1.026
48	1234678-HpCDD	40.35	4.156e3	3.753e3	1.253	1.11	1.05	62.5	YES	NO	bb	bb	1.374
49	1234679-HPCDD	39.30	5.450e3	5.718e3	1.286	0.95	1.05	82.5	YES	NO	bb	bb	1.890
50	OCDD	45.11	2.225e4	2.538e4	1.103	0.88	0.89	218.9	YES	NO	bb	bb	9.788

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.74	1.097e7					26.2	YES		bd		
2	FUNCTION1 PFK	21.30	2.909e6					9.4	YES		bb		
3	FUNCTION1 PFK	25.29	6.785e4					0.9	NO		bd		
4	FUNCTION1 PFK	24.48	6.951e4					1.3	NO		db		
5	FUNCTION1 PFK	24.40	2.486e4					0.7	NO		bd		
6	FUNCTION1 PFK	23.96	1.040e5					1.6	NO		db		
7	FUNCTION1 PFK	23.89	4.959e4					1.2	NO		dd		
8	FUNCTION1 PFK	23.72	3.236e5					2.4	NO		bd		
9	FUNCTION1 PFK	23.43	6.210e3					0.4	NO		bb		
10	FUNCTION1 PFK	23.25	3.328e5					4.2	YES		db		
11	FUNCTION1 PFK	23.13	5.068e6					7.4	YES		dd		
12	FUNCTION1 PFK	22.66	2.178e6					18.0	YES		dd		
13	FUNCTION1 PFK	22.59	1.565e6					19.3	YES		dd		
14	FUNCTION1 PFK	22.53	1.382e6					21.2	YES		dd		
15	FUNCTION1 PFK	22.46	3.081e6					22.7	YES		dd		
16	FUNCTION1 PFK	22.34	3.854e6					24.4	YES		bd		
17	FUNCTION1 PFK	22.06	4.882e6					25.6	YES		db		
18	FUNCTION1 PFK	21.92	2.978e6					25.9	YES		dd		
19	FUNCTION1 PFK	27.32	1.052e5					1.9	NO		bd		
20	FUNCTION1 PFK	26.79	3.133e4					0.8	NO		db		
21	FUNCTION1 PFK	26.73	3.858e4					0.7	NO		bd		
22	FUNCTION1 PFK	26.47	1.855e4					0.5	NO		bb		
23	FUNCTION1 PFK	26.27	3.006e4					1.0	NO		bb		
24	FUNCTION1 PFK	26.20	7.529e4					1.5	NO		db		
25	FUNCTION1 PFK	26.14	1.207e5					2.1	NO		dd		
26	FUNCTION1 PFK	26.08	1.094e5					2.0	NO		dd		
27	FUNCTION1 PFK	26.02	6.255e4					1.4	NO		dd		
28	FUNCTION1 PFK	25.96	3.228e4					0.9	NO		bd		
29	FUNCTION1 PFK	25.88	1.652e4					0.6	NO		bb		
30	FUNCTION1 PFK	25.72	2.207e4					0.6	NO		db		
31	FUNCTION1 PFK	25.66	6.310e4					1.1	NO		bd		
32	FUNCTION1 PFK	25.53	1.737e4					0.5	NO		bb		
33	FUNCTION1 PFK	25.47	6.726e4					1.5	NO		db		
34	FUNCTION1 PFK	25.41	6.878e4					1.4	NO		dd		
35	FUNCTION1 PFK	28.15	2.555e4					0.8	NO		bb		
36	FUNCTION1 PFK	27.97	2.468e5					2.6	NO		bb		
37	FUNCTION1 PFK	27.70	3.933e5					2.7	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	27.56	9.569e4					2.0	NO		db		
39	FUNCTION1 PFK	27.51	1.248e5					2.3	NO		dd		
40	FUNCTION1 PFK	27.44	1.599e5					2.3	NO		dd		
41	FUNCTION1 PFK	27.38	1.182e5					2.3	NO		dd		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.35	3.207e6					9.4	YES		bb		0.000
2	FUNCTION2 PFK	29.47	9.899e4					3.7	YES		bb		0.000
3	FUNCTION2 PFK	29.28	5.763e5					4.4	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

**ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.25	3.798e5					5.0	YES		dd		0.000
2	FUNCTION3 PFK	33.20	1.256e5					5.3	YES		bd		0.000
3	FUNCTION3 PFK	32.99	2.356e5					3.3	YES		db		0.000
4	FUNCTION3 PFK	32.97	1.038e5					4.0	YES		bd		0.000
5	FUNCTION3 PFK	34.71	2.505e4					1.4	NO		dd		0.000
6	FUNCTION3 PFK	34.67	1.632e4					1.1	NO		dd		0.000
7	FUNCTION3 PFK	34.62	1.578e4					1.3	NO		bd		0.000
8	FUNCTION3 PFK	34.57	4.243e3					0.8	NO		bb		0.000
9	FUNCTION3 PFK	34.48	8.547e3					0.8	NO		bb		0.000
10	FUNCTION3 PFK	34.44	2.961e4					2.4	NO		bb		0.000
11	FUNCTION3 PFK	34.35	5.520e4					2.1	NO		db		0.000
12	FUNCTION3 PFK	34.29	6.198e4					2.9	NO		dd		0.000
13	FUNCTION3 PFK	34.22	3.735e4					2.2	NO		dd		0.000
14	FUNCTION3 PFK	34.17	4.614e4					2.3	NO		bd		0.000
15	FUNCTION3 PFK	34.00	6.214e4					2.4	NO		bb		0.000
16	FUNCTION3 PFK	33.72	4.918e3					0.7	NO		db		0.000
17	FUNCTION3 PFK	33.69	3.190e4					1.2	NO		dd		0.000
18	FUNCTION3 PFK	33.58	7.018e4					2.4	NO		dd		0.000
19	FUNCTION3 PFK	33.48	6.195e4					2.9	NO		dd		0.000
20	FUNCTION3 PFK	33.44	7.293e4					3.7	YES		dd		0.000
21	FUNCTION3 PFK	36.72	5.871e3					0.8	NO		bb		0.000
22	FUNCTION3 PFK	36.63	7.446e4					2.2	NO		bb		0.000
23	FUNCTION3 PFK	36.39	4.142e3					0.7	NO		bb		0.000
24	FUNCTION3 PFK	36.34	1.753e3					0.3	NO		bb		0.000
25	FUNCTION3 PFK	36.20	3.623e4					1.8	NO		db		0.000
26	FUNCTION3 PFK	36.11	1.265e5					3.3	YES		bd		0.000
27	FUNCTION3 PFK	35.95	1.719e5					5.1	YES		db		0.000
28	FUNCTION3 PFK	35.91	1.239e5					5.1	YES		dd		0.000
29	FUNCTION3 PFK	35.75	3.627e5					5.5	YES		dd		0.000
30	FUNCTION3 PFK	35.71	1.271e5					4.4	YES		dd		0.000
31	FUNCTION3 PFK	35.61	3.091e5					6.0	YES		dd		0.000
32	FUNCTION3 PFK	35.42	8.468e5					6.6	YES		bd		0.000
33	FUNCTION3 PFK	35.07	4.280e5					4.9	YES		db		0.000
34	FUNCTION3 PFK	35.00	3.205e4					3.0	YES		dd		0.000
35	FUNCTION3 PFK	34.96	1.001e5					3.0	NO		bd		0.000
36	FUNCTION3 PFK	34.77	4.082e4					2.5	NO		db		0.000
37	FUNCTION3 PFK	37.86	2.627e4					1.3	NO		db		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

**ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	37.80	1.133e5					2.7	NO		dd		0.000
39	FUNCTION3 PFK	37.72	8.599e4					3.0	NO		dd		0.000
40	FUNCTION3 PFK	37.64	1.278e5					4.3	YES		dd		0.000
41	FUNCTION3 PFK	37.59	1.110e5					4.7	YES		bd		0.000
42	FUNCTION3 PFK	37.46	4.576e5					7.6	YES		db		0.000
43	FUNCTION3 PFK	37.36	1.089e5					6.2	YES		bd		0.000
44	FUNCTION3 PFK	37.22	1.492e5					3.6	YES		bb		0.000
45	FUNCTION3 PFK	37.02	1.631e5					3.8	YES		bb		0.000
46	FUNCTION3 PFK	36.87	1.468e5					4.2	YES		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.34	2.296e5					4.0	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	23.92	3.578e3					54.0	YES		bb		0.000
2	FUNCTION1 HXCD...	21.35	2.291e2					2.4	NO		bb		0.000
3	FUNCTION1 HXCD...	27.98	1.082e2					3.3	YES		bb		0.000
4	FUNCTION1 HXCD...	27.79	9.183e2					12.0	YES		bb		0.000
5	FUNCTION1 HXCD...	26.92	1.838e3					28.5	YES		bb		0.000
6	FUNCTION1 HXCD...	26.50	2.482e2					3.5	YES		bb		0.000
7	FUNCTION1 HXCD...	26.27	5.538e3					77.5	YES		bb		0.000
8	FUNCTION1 HXCD...	26.06	3.713e2					6.4	YES		bb		0.000
9	FUNCTION1 HXCD...	25.91	2.798e3					35.5	YES		bb		0.000
10	FUNCTION1 HXCD...	25.25	2.684e3					41.6	YES		bb		0.000

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

## ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	23.93	1.045e2					1.4	NO		bb		0.000
2	FUNCTION1 HPCD...	23.75	1.270e2					2.7	NO		bb		0.000
3	FUNCTION1 HPCD...	22.42	1.393e2					1.6	NO		bb		0.000
4	FUNCTION1 HPCD...	21.81	1.201e2					1.9	NO		db		0.000
5	FUNCTION1 HPCD...	21.72	1.005e2					1.4	NO		bd		0.000
6	FUNCTION1 HPCD...	21.19	1.490e2					2.3	NO		db		0.000
7	FUNCTION1 HPCD...	21.12	1.813e2					2.0	NO		bd		0.000
8	FUNCTION1 HPCD...	27.62	2.618e2					1.8	NO		bb		0.000
9	FUNCTION1 HPCD...	27.41	1.201e2					2.1	NO		bb		0.000
10	FUNCTION1 HPCD...	26.35	9.748e1					1.3	NO		bb		0.000
11	FUNCTION1 HPCD...	25.97	2.030e2					3.7	YES		bb		0.000
12	FUNCTION1 HPCD...	25.50	1.389e2					1.4	NO		db		0.000
13	FUNCTION1 HPCD...	25.34	7.625e1					1.3	NO		dd		0.000
14	FUNCTION1 HPCD...	25.28	7.914e1					1.2	NO		bd		0.000
15	FUNCTION1 HPCD...	24.78	9.000e1					1.0	NO		bb		0.000

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.35	1.456e3					17.4	YES		bb		0.000
2	FUNCTION2 HPCD...	30.17	1.367e2					2.3	NO		bb		0.000
3	FUNCTION2 HPCD...	29.10	1.639e3					24.5	YES		bb		0.000

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.10	1.722e2					3.0	YES		bb		0.000
2	FUNCTION3 OCDPE	35.74	2.595e2					4.2	YES		bb		0.000
3	FUNCTION3 OCDPE	34.58	7.611e1					3.4	YES		bb		0.000
4	FUNCTION3 OCDPE	37.77	1.058e2					2.5	NO		bb		0.000
5	FUNCTION3 OCDPE	37.61	1.806e2					2.4	NO		bb		0.000
6	FUNCTION3 OCDPE	36.73	1.232e2					1.9	NO		bb		0.000
7	FUNCTION3 OCDPE	36.37	1.185e2					2.7	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:05 Pacific Standard Time

ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.50	4.587e3					79.3	YES		bb		0.000

**ETHERS6**

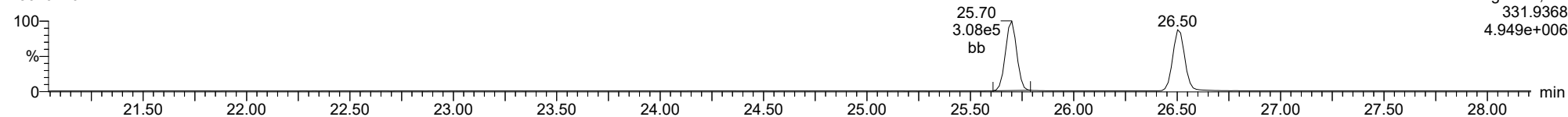
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1	FUNCTION5 DCDPE	46.40	1.513e2					3.6	YES		db		0.000
2	FUNCTION5 DCDPE	46.31	7.287e1					2.3	NO		bd		0.000
3	FUNCTION5 DCDPE	45.21	8.879e1					2.8	NO		bb		0.000
4	FUNCTION5 DCDPE	43.55	1.174e2					2.6	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

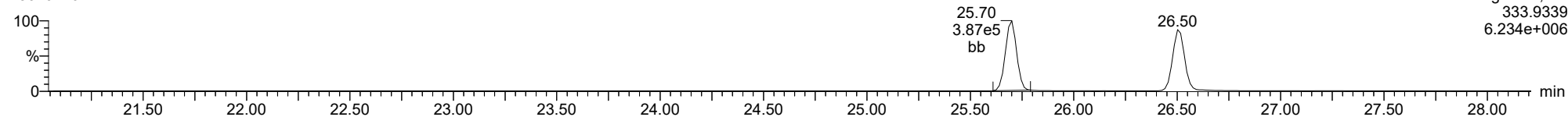
**13C-1234-TCDD**

23020126



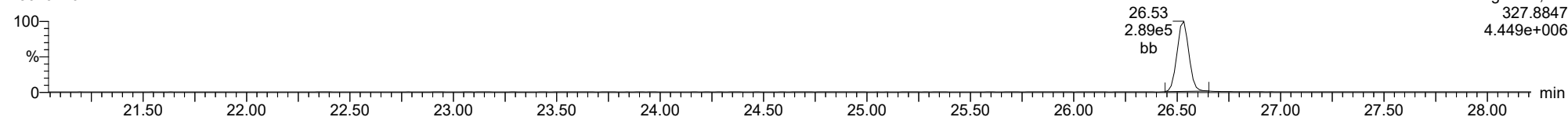
**13C-1234-TCDD**

23020126



**37CL-2378-TCDD**

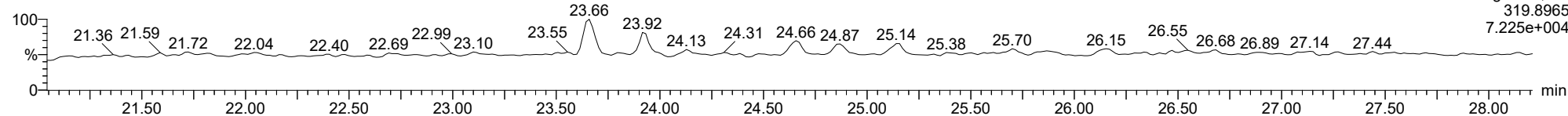
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

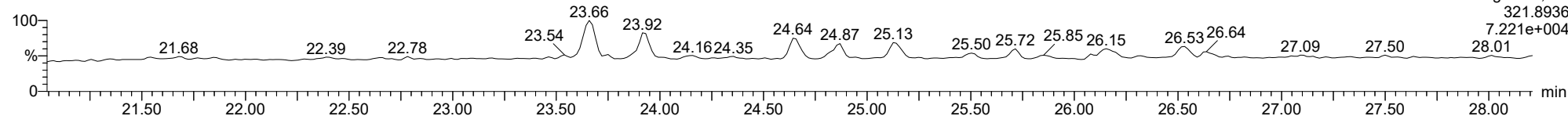
**2378-TCDD**

23020126



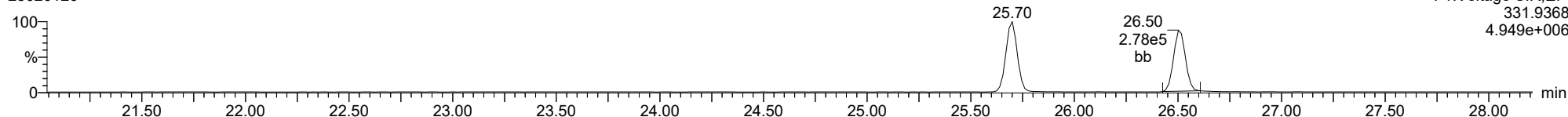
**2378-TCDD**

23020126



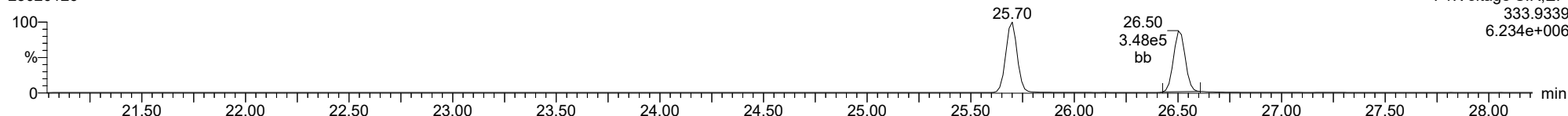
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23020126



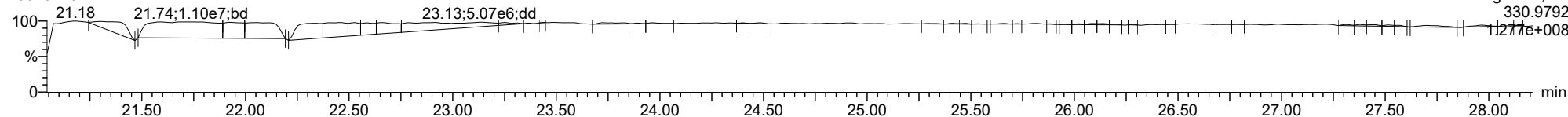
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23020126



**FUNCTION1 PFK**

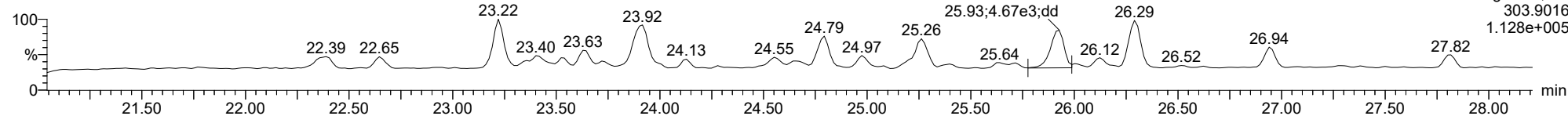
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

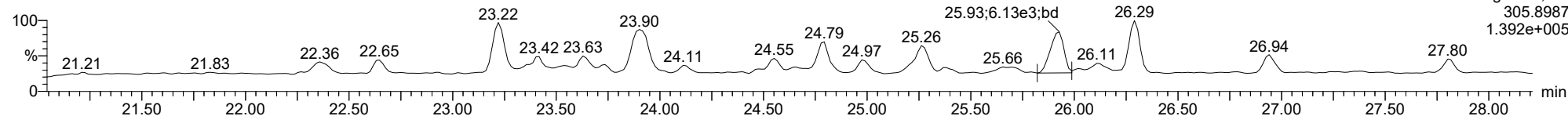
**2378-TCDF**

23020126



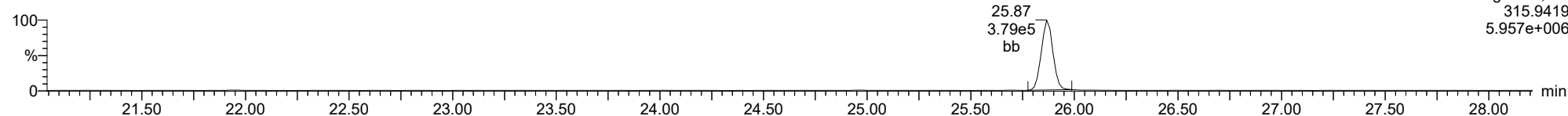
**2378-TCDF**

23020126



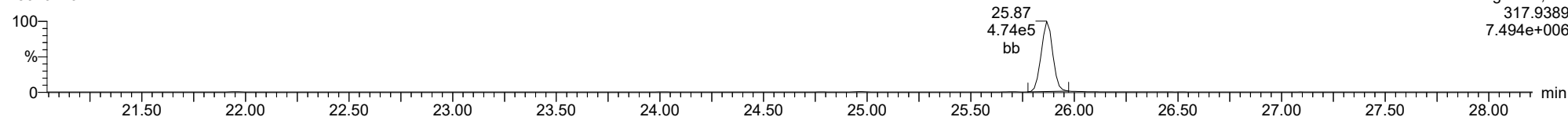
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23020126



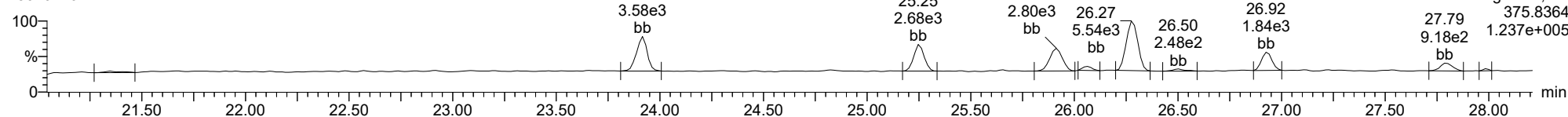
**13C-2378-TCDF**

23020126



**FUNCTION1 HXCDPE**

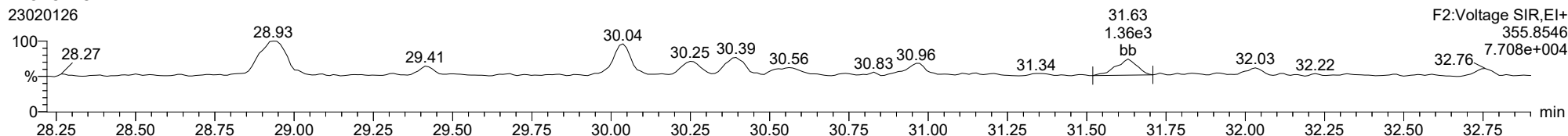
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

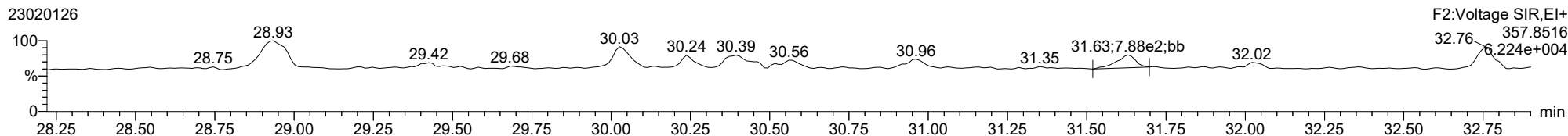
**12378-PeCDD**

23020126



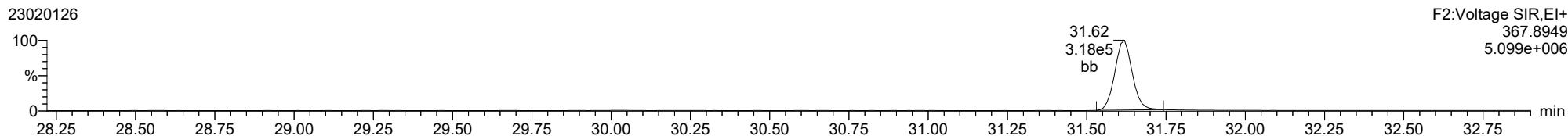
**12378-PeCDD**

23020126



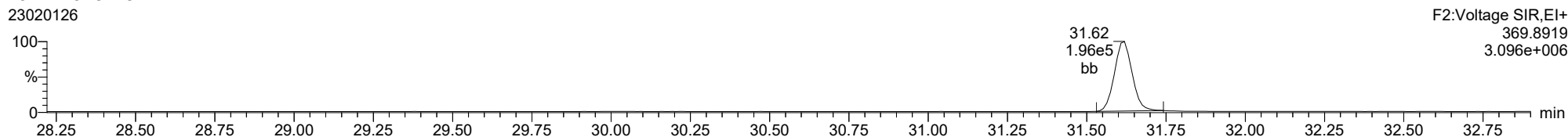
**13C-12378-PeCDD**

23020126



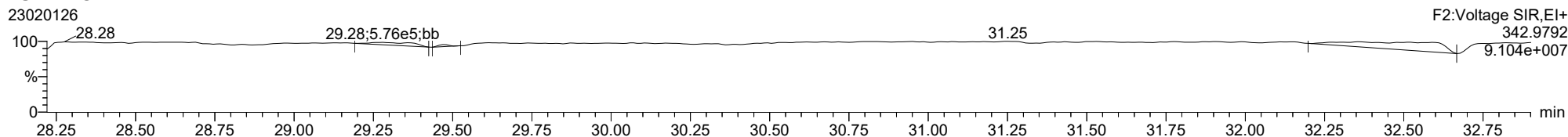
**13C-12378-PeCDD**

23020126



**FUNCTION2 PFK**

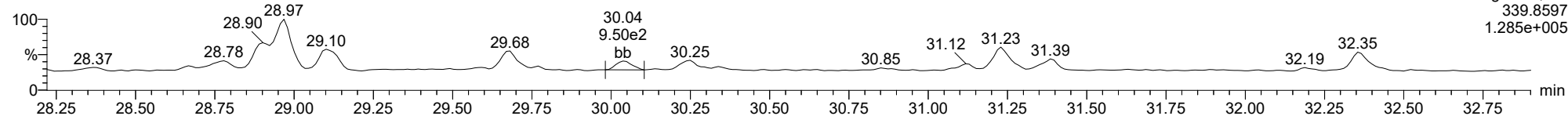
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

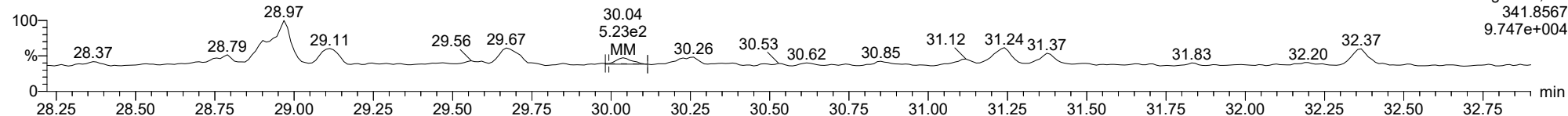
### 12378-PeCDF

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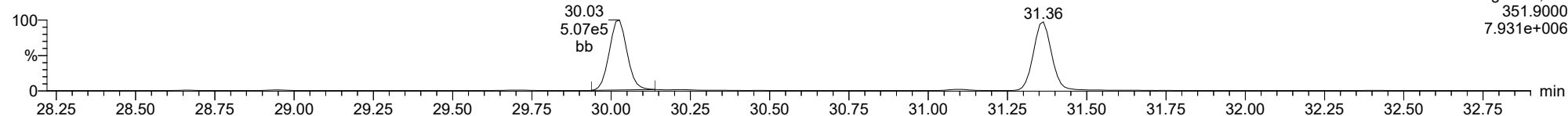
### 12378-PeCDF

23020126



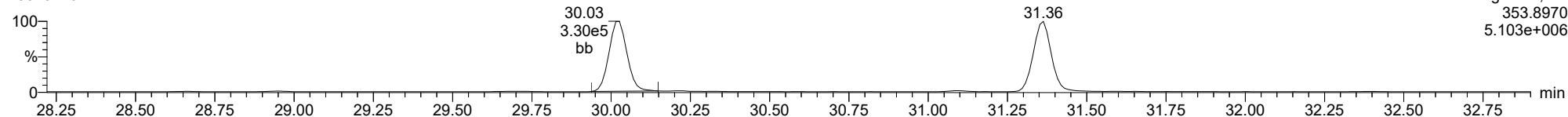
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23020126



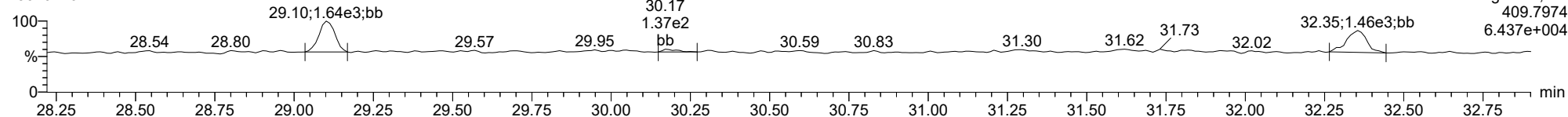
### 13C-12378-PeCDF

23020126



### FUNCTION2 HPCDPE

23020126

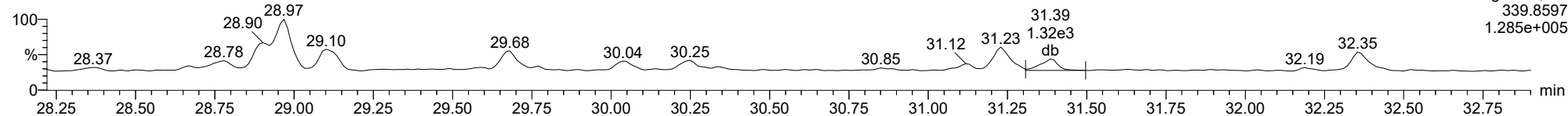




ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

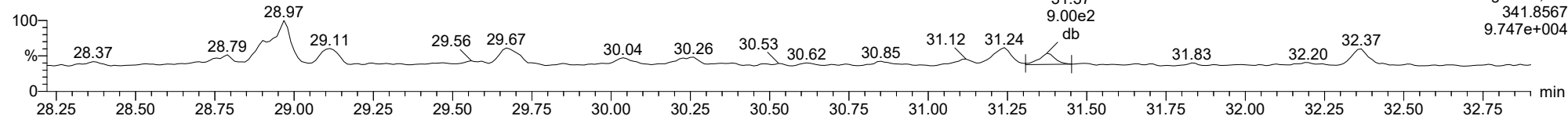
**23478-PeCDF**

23020126



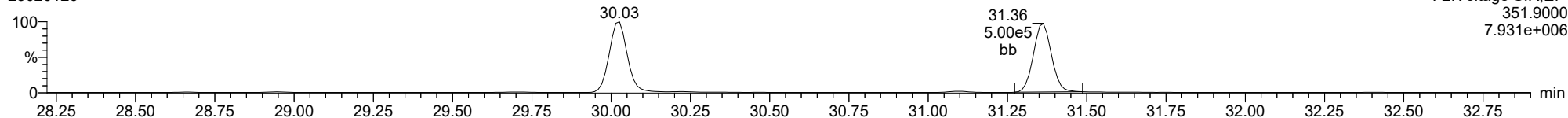
**23478-PeCDF**

23020126



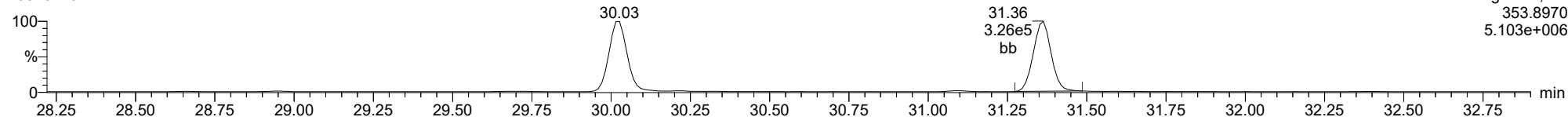
**13C-23478-PeCDF**

23020126



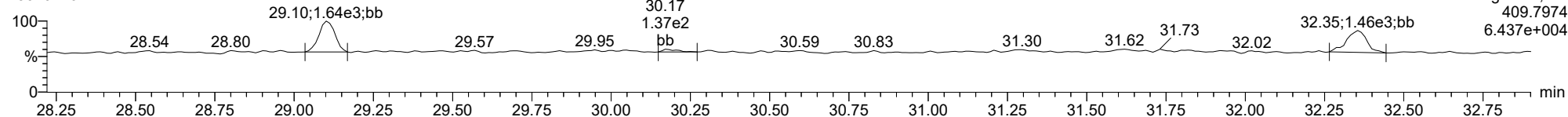
**13C-23478-PeCDF**

23020126



**FUNCTION2 HPCDPE**

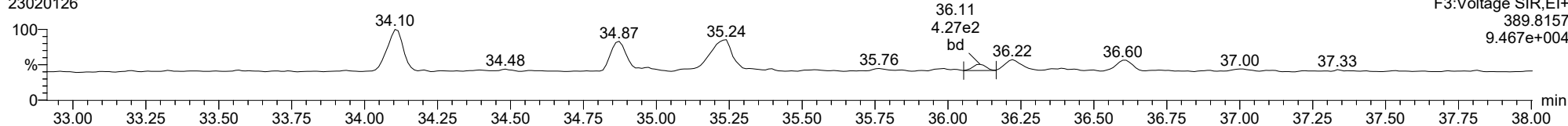
23020126



ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

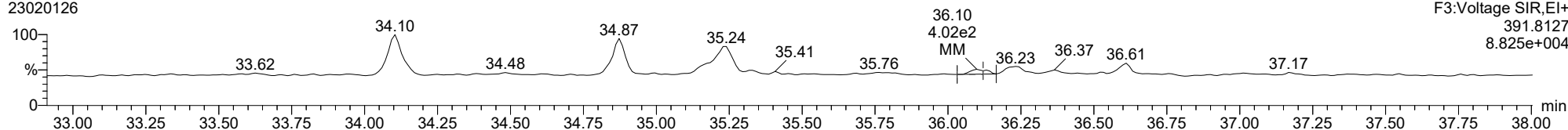
**123478-HxCDD**

23020126



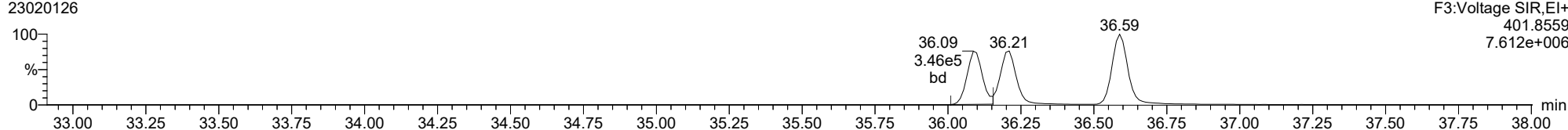
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23020126



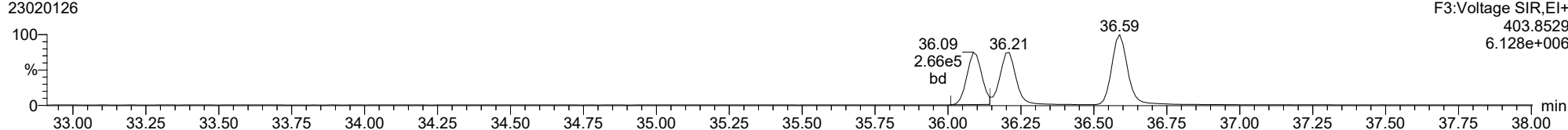
**13C-123478-HxCDD**

23020126



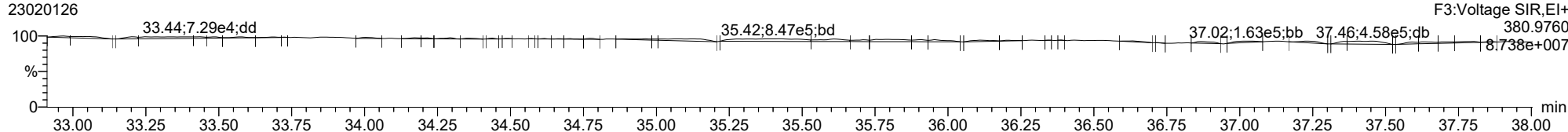
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23020126



**FUNCTION3 PFK**

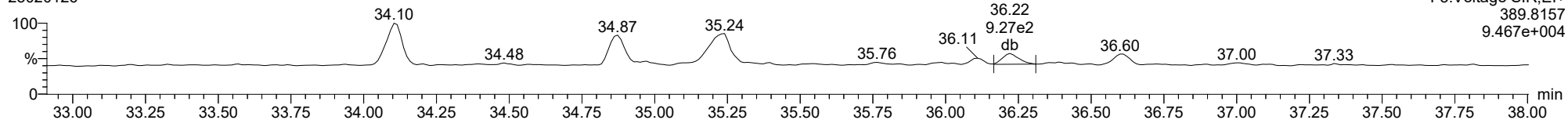
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

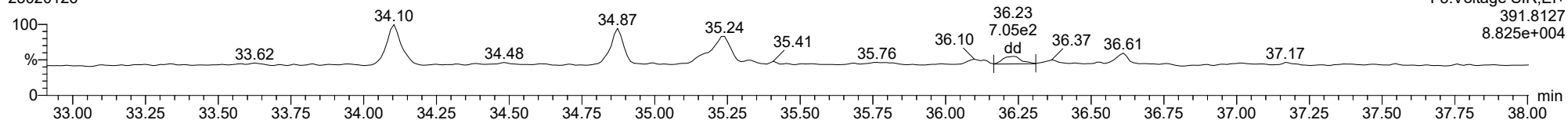
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23020126



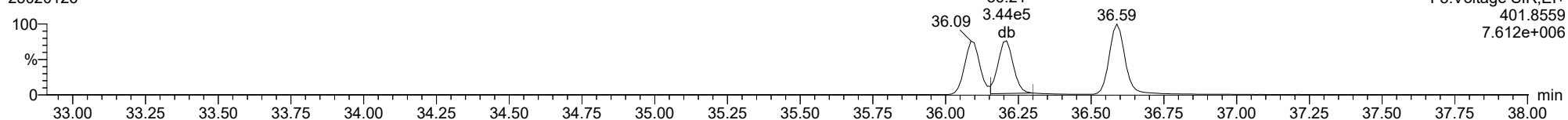
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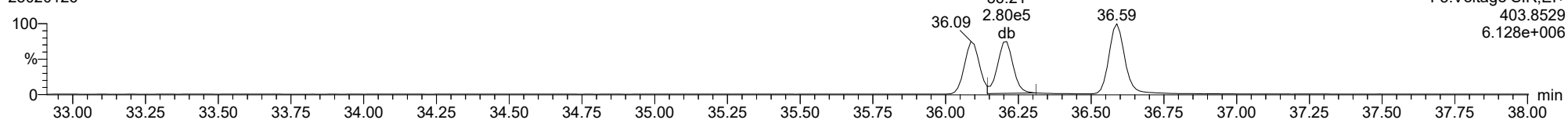
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23020126



**13C-123678-HxCDD**

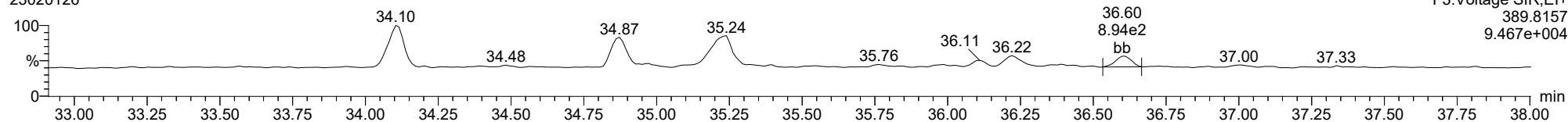
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

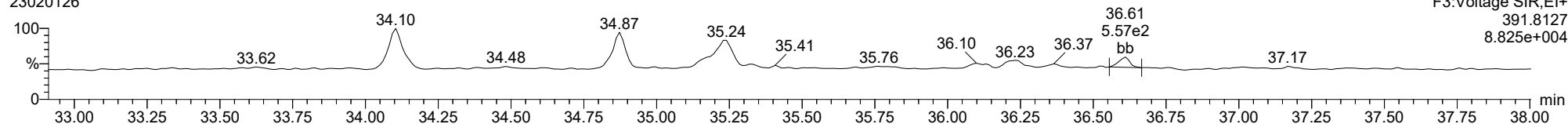
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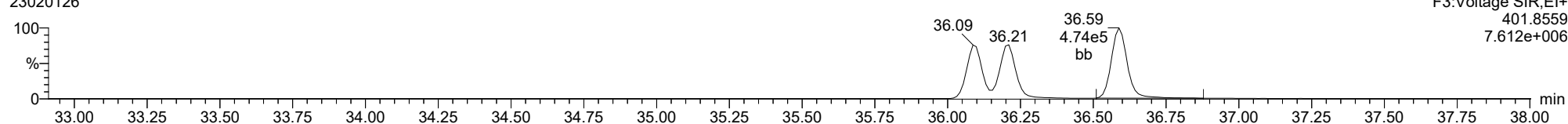
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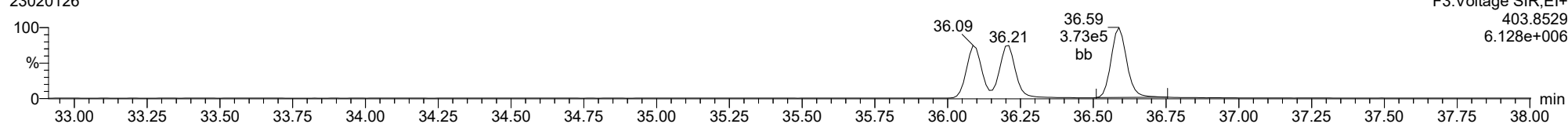
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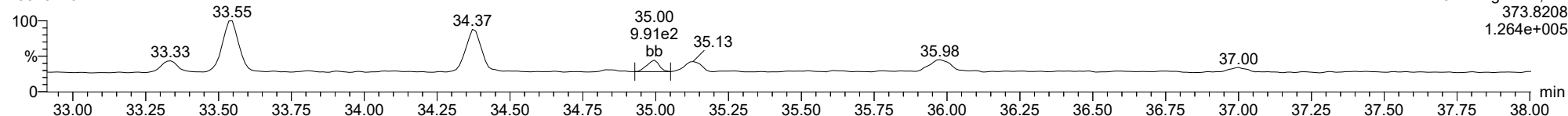
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

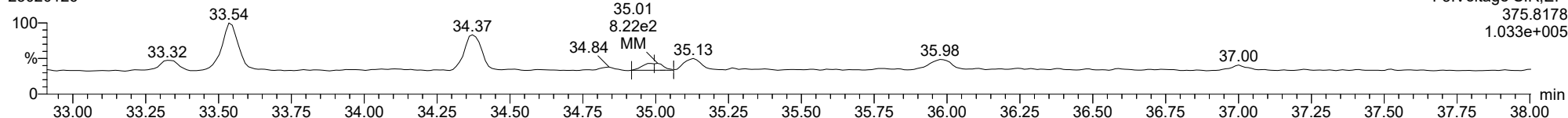
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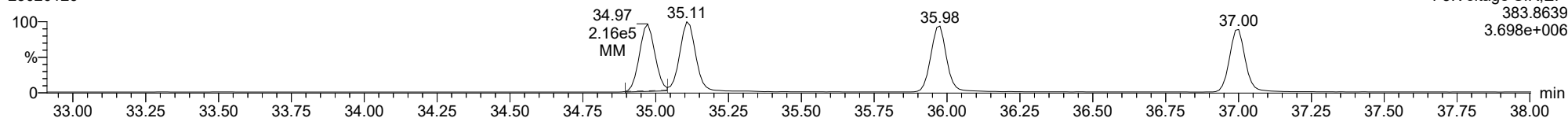
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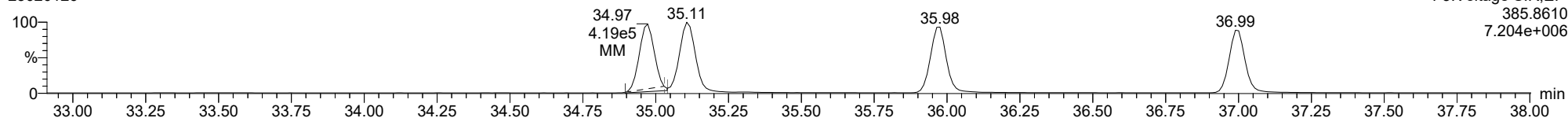
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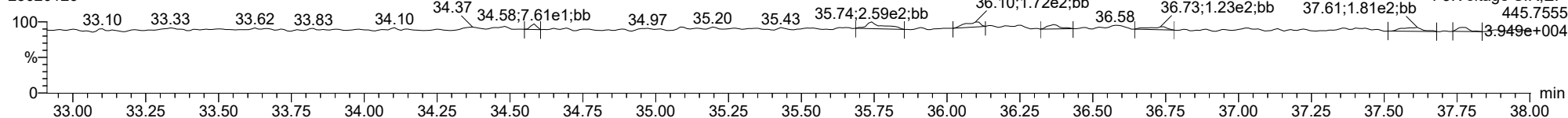
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23020126



**FUNCTION3 OCDPE**

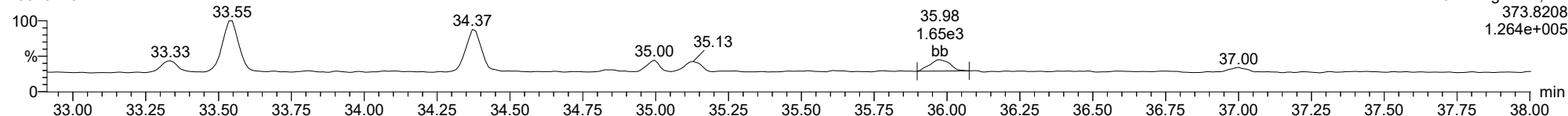
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

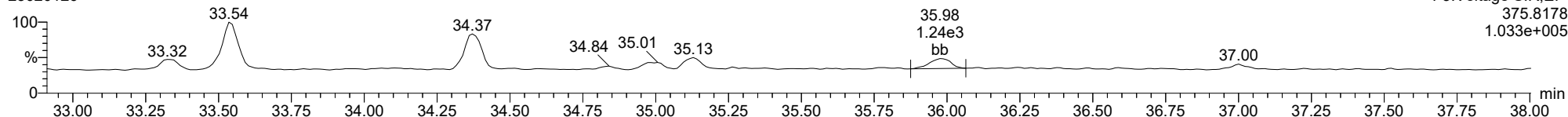
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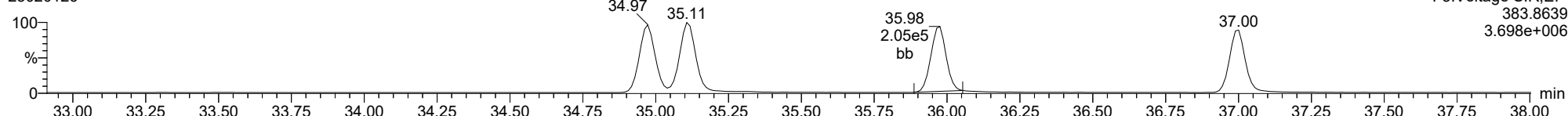
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23020126



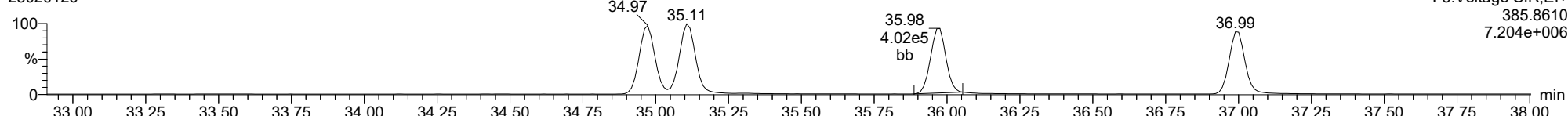
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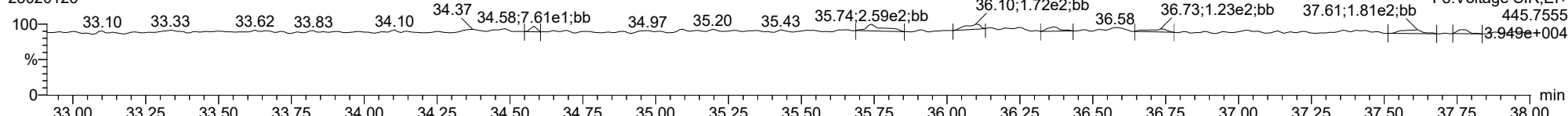
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**FUNCTION3 OCDPE**

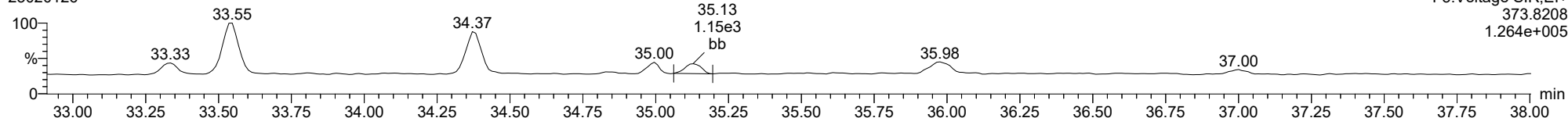
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

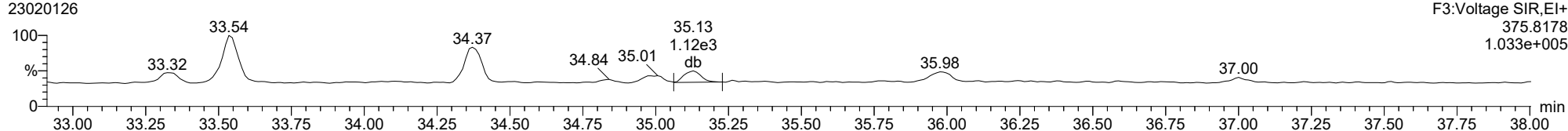
123678-HxCDF

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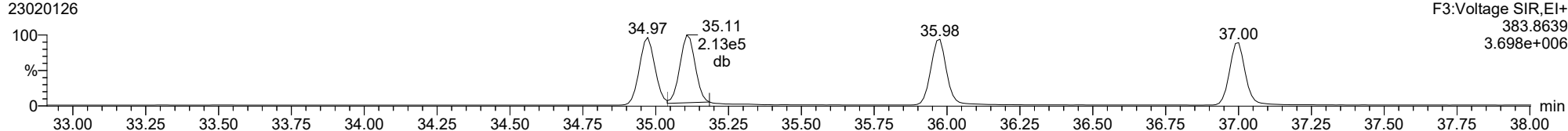
123678-HxCDF

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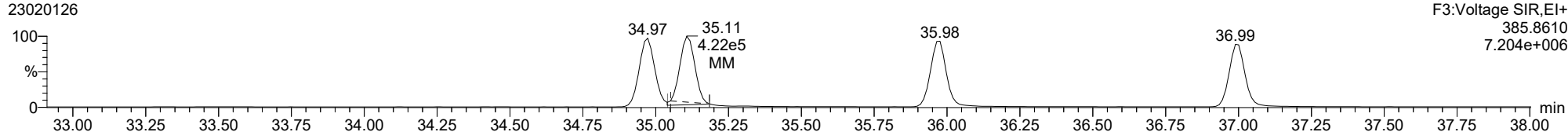
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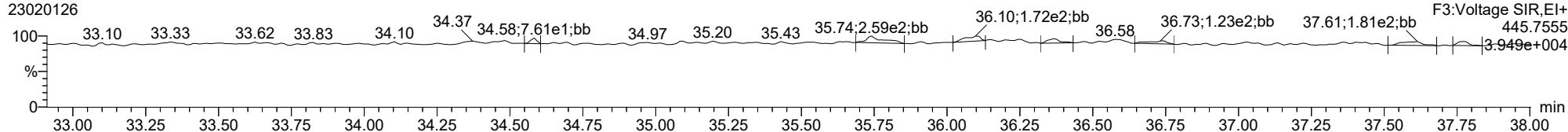
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FUNCTION3 OCDPE

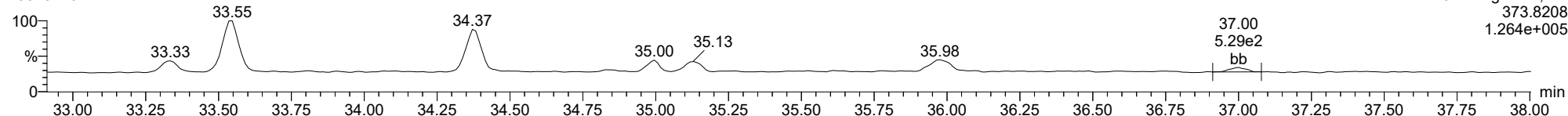
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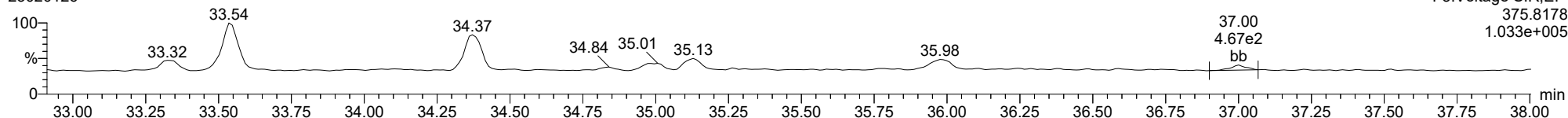
123789-HxCDF

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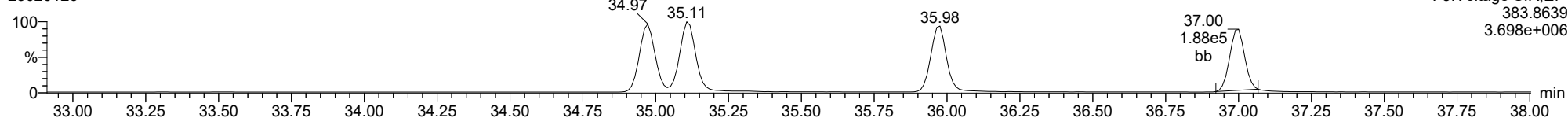
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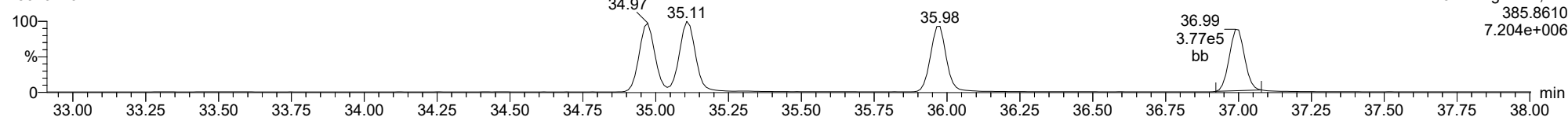
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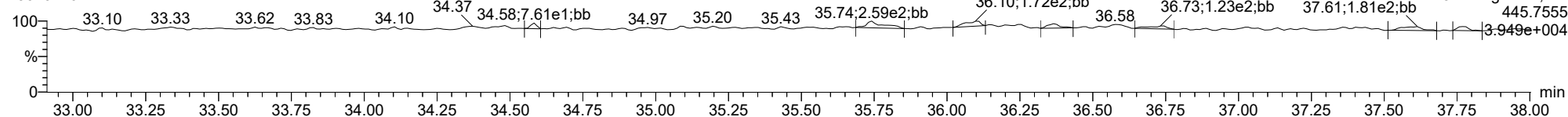
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FUNCTION3 OCDPE

23020126

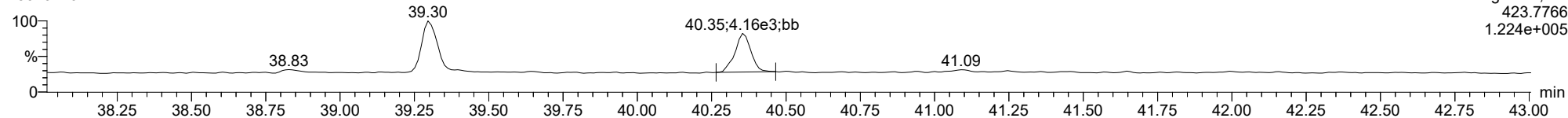




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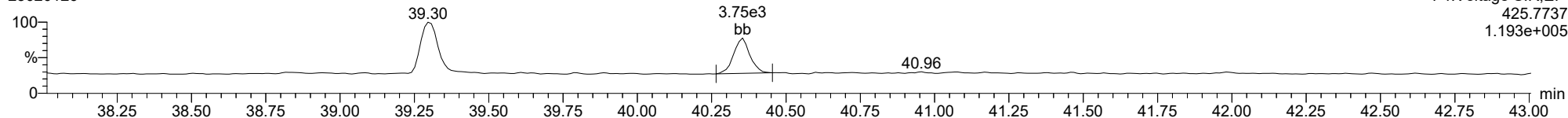
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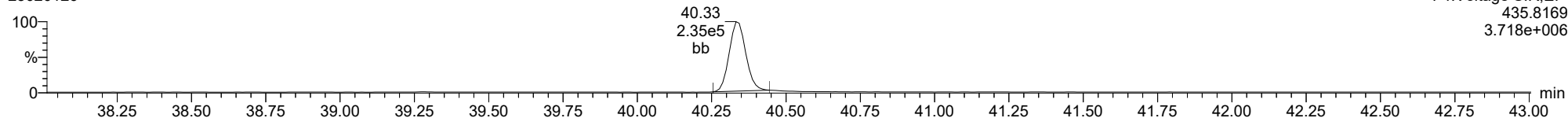
1234678-HpCDD

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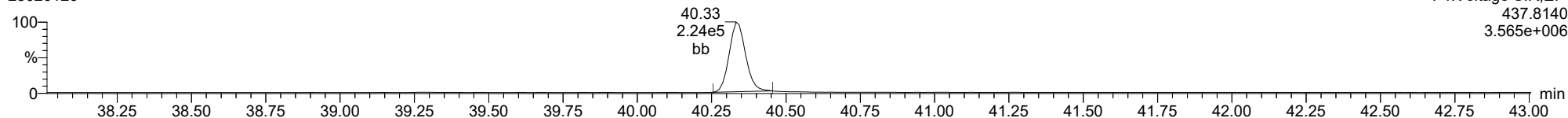
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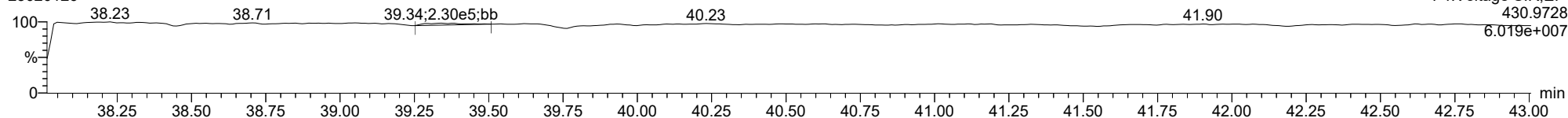
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FUNCTION4 PFK

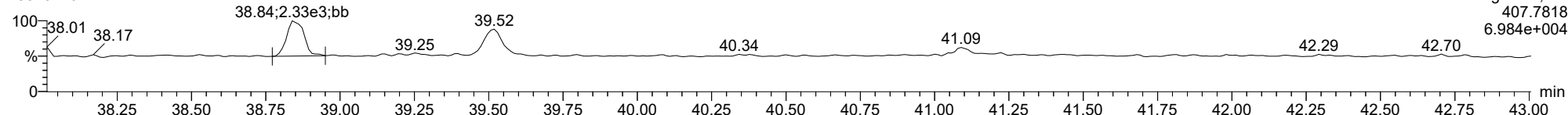
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

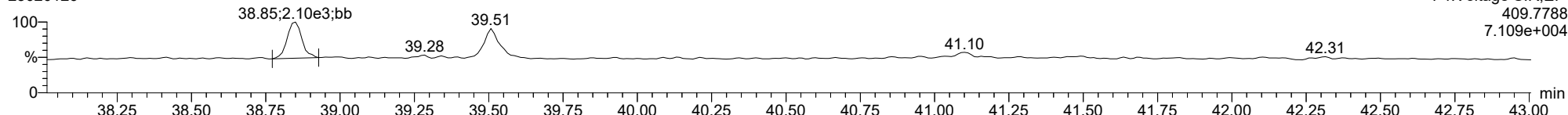
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23020126



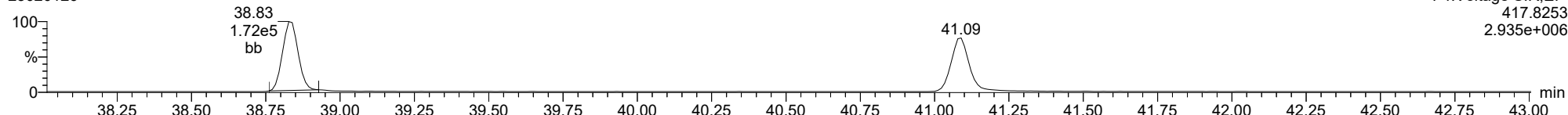
**1234678-HpCDF**

23020126



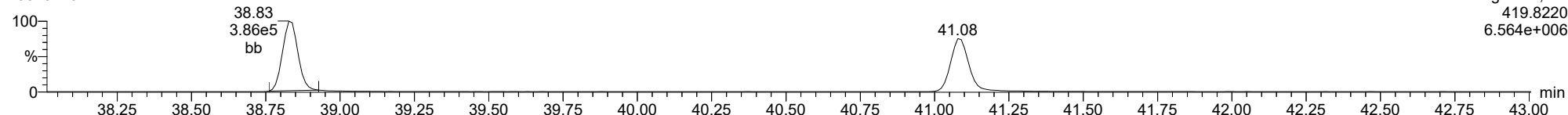
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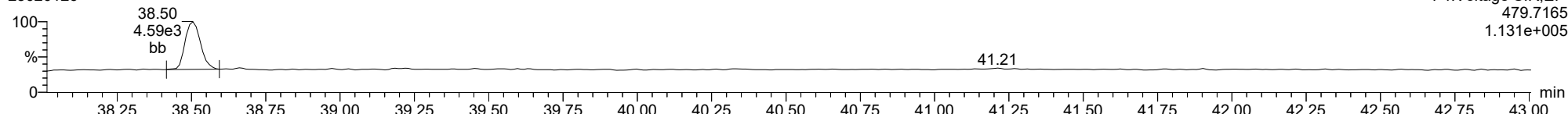
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**FUNCTION4 NCDPE**

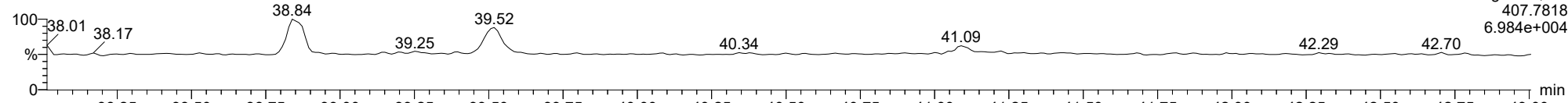
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

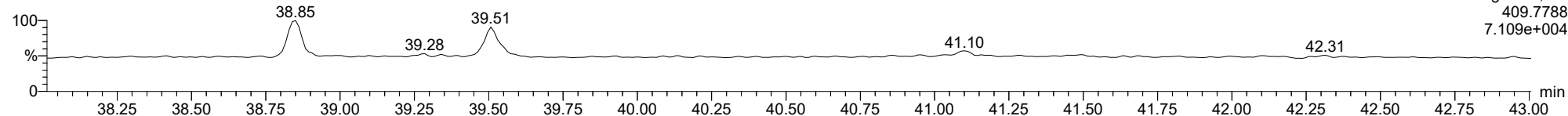
1234789-HpCDF

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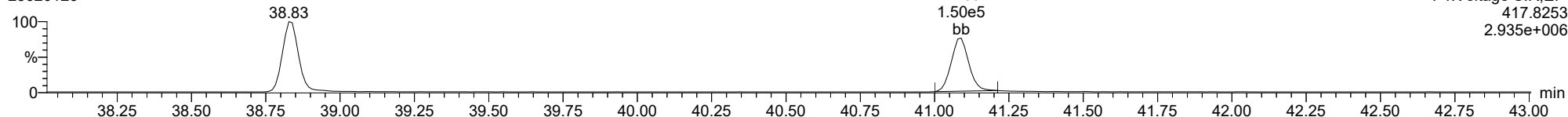
1234789-HpCDF

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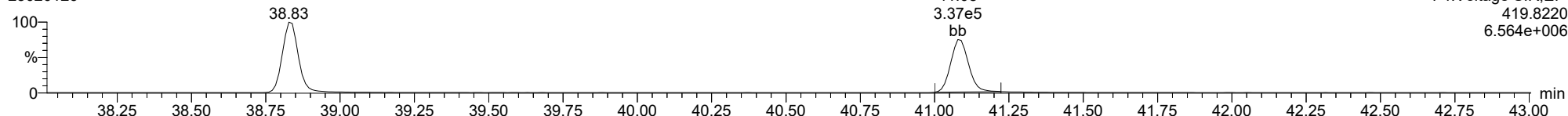
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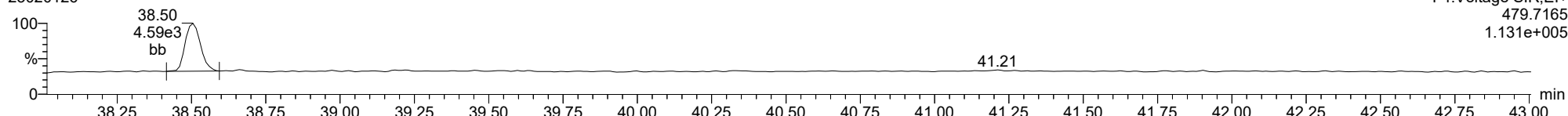
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FUNCTION4 NCDPE

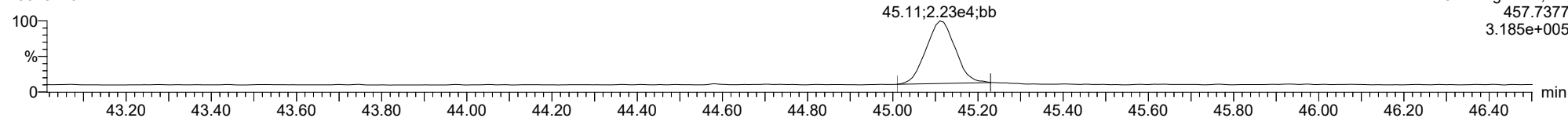
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ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

**OCDD**

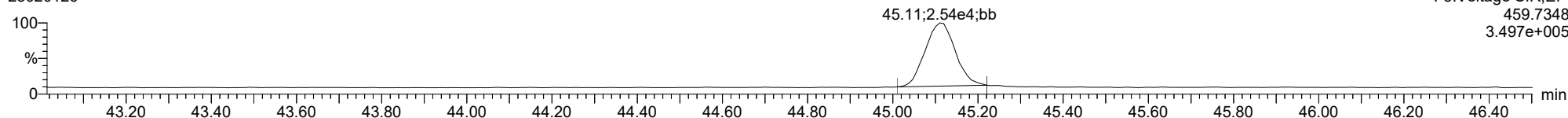
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F5:Voltage SIR,El+  
457.7377  
3.185e+005

**OCDD**

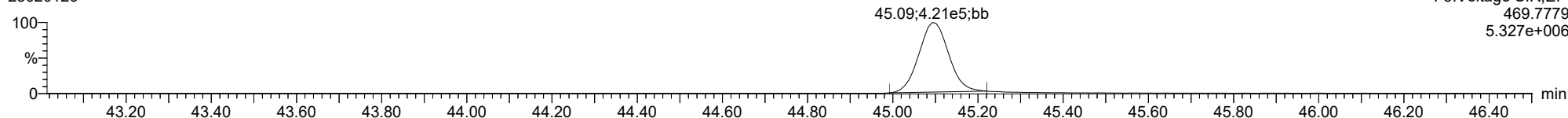
23020126



F5:Voltage SIR,El+  
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3.497e+005

**13C-OCDD**

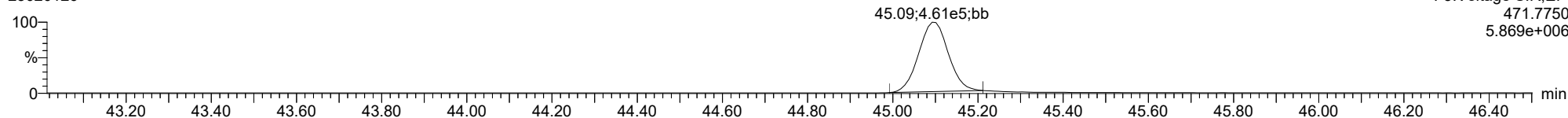
23020126



F5:Voltage SIR,El+  
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5.327e+006

**13C-OCDD**

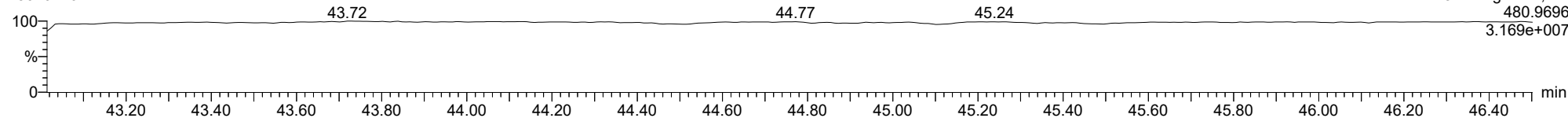
23020126



F5:Voltage SIR,El+  
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5.869e+006

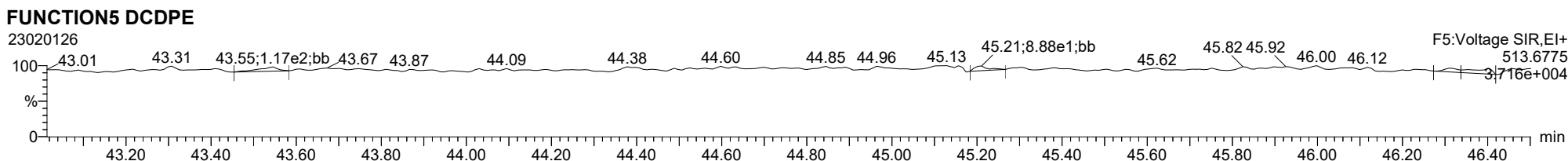
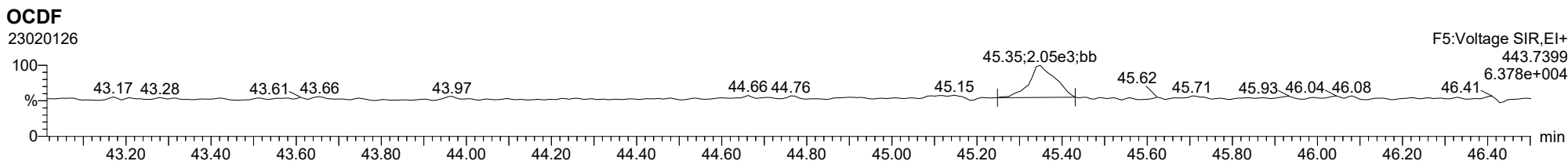
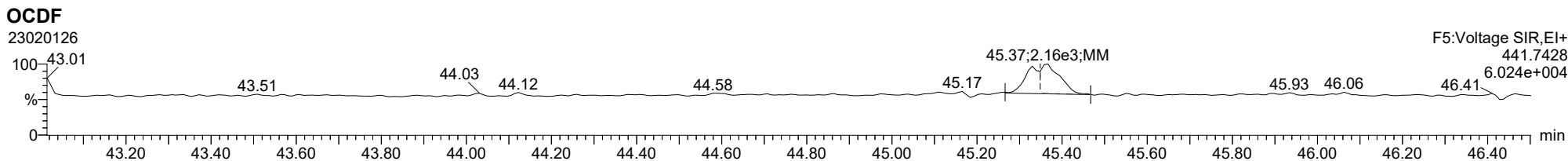
**FUNCTION5 PFK**

23020126



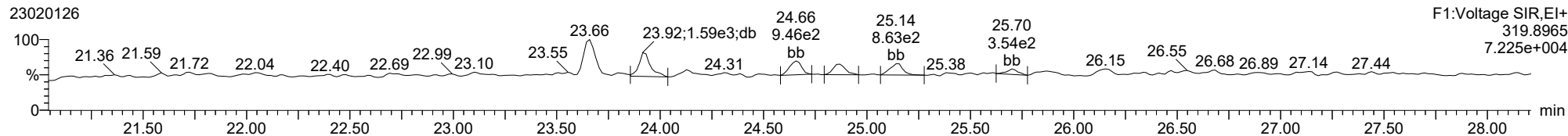
F5:Voltage SIR,El+  
480.9696  
3.169e+007

ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

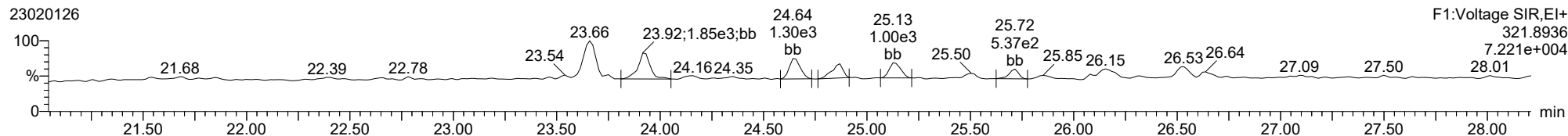


ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

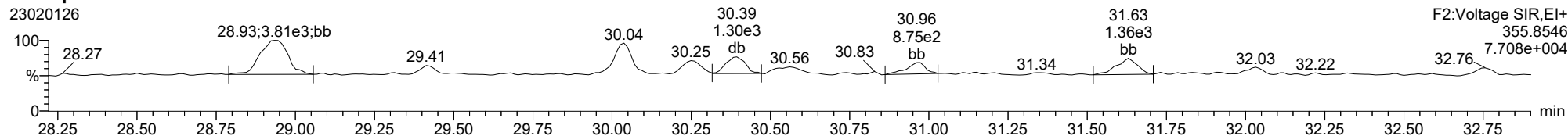
**Total-tetradioxins**



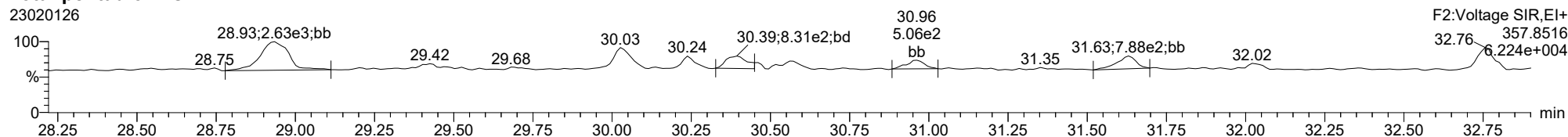
**Total-tetradioxins**



**Total-pentadioxins**



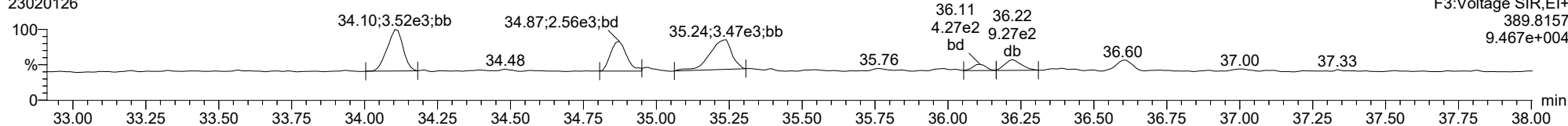
**Total-pentadioxins**



ID: 22L0246-14, Name: 23020126, Date: 02-Feb-2023, Time: 09:47:44, Conditions: AUTOSPEC01, User: pk

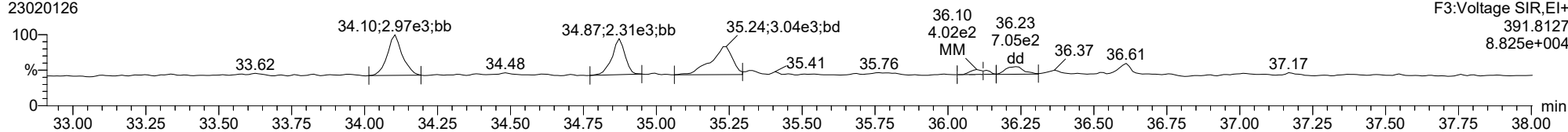
**Total-hexadioxins**

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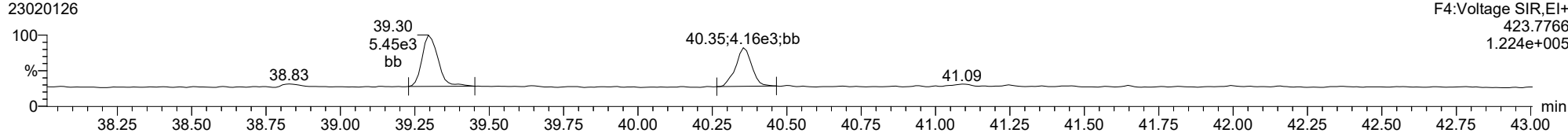
**Total-hexadioxins**

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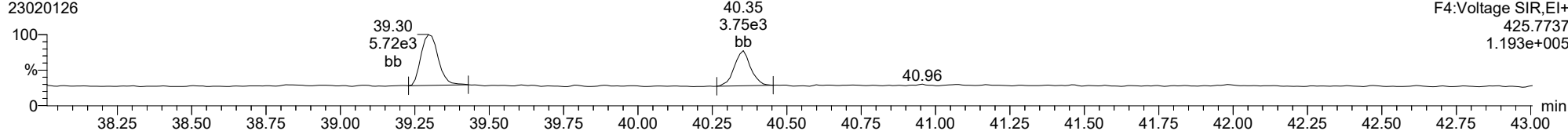
**Total-heptadioxins**

23020126



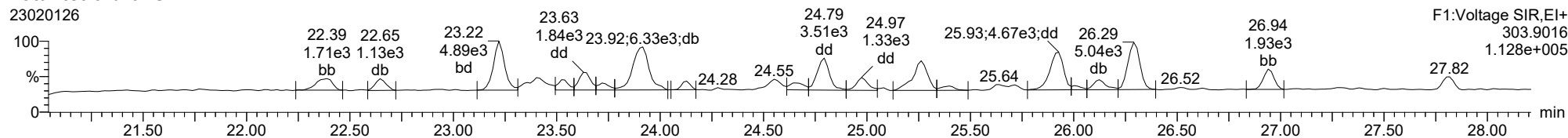
**Total-heptadioxins**

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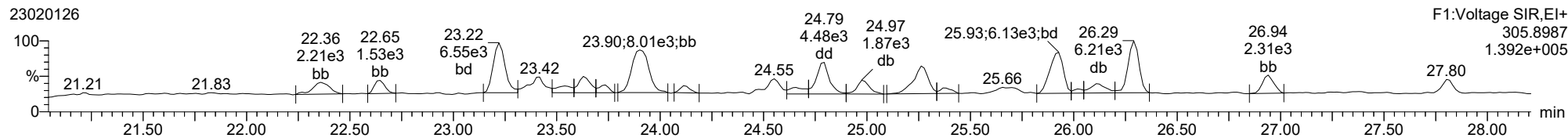


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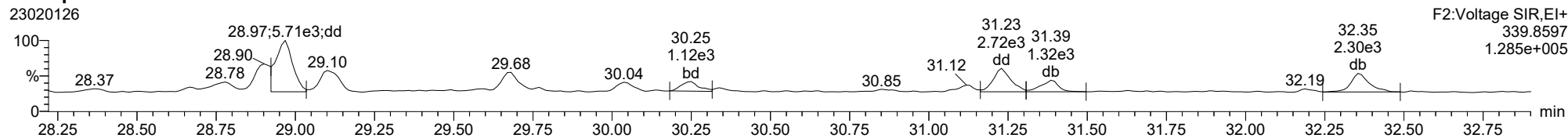
**Total-tetrafurans**



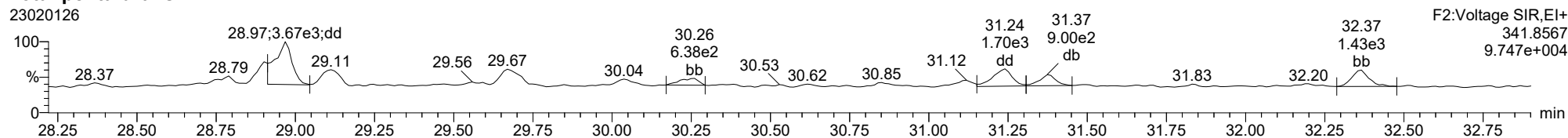
**Total-tetrafurans**



**Total-pentafurans**



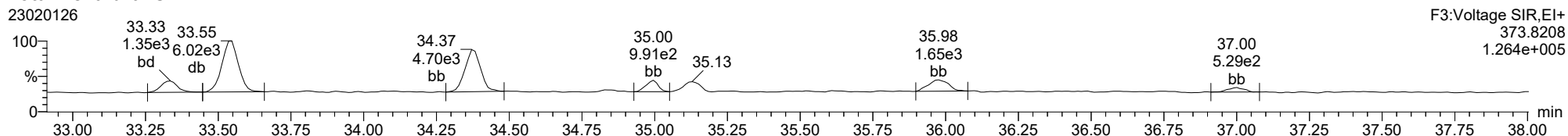
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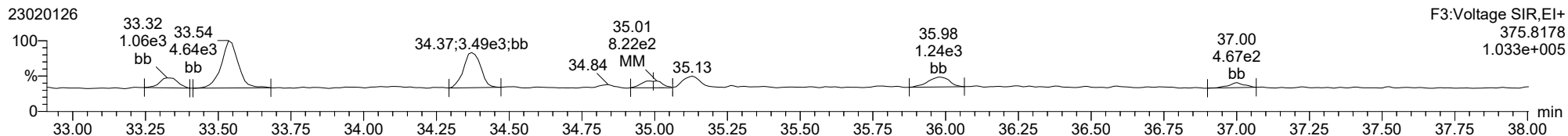


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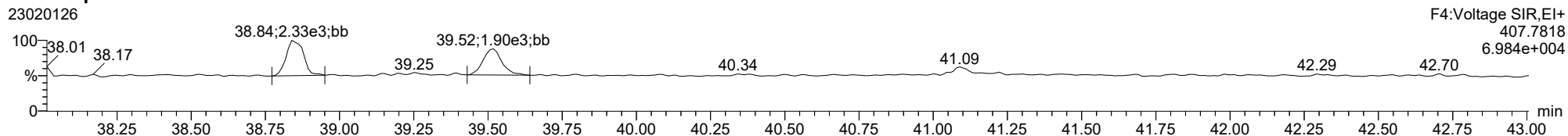
**Total-hexafurans**



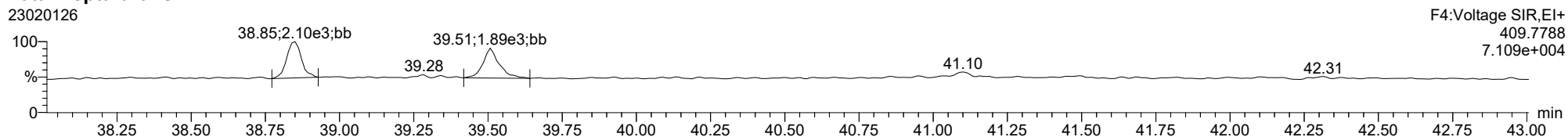
**Total-hexafurans**



**Total-heptafurans**



**Total-heptafurans**





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-42 A File ID: 23020127  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 10:37  
 % Solids: 54.38 Preparation: EPA 1613 Initial/Final: 18.43 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.732	0.655-0.886	0.132	0.998	8.36	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.628	0.655-0.886	0.135	0.998	1.07	ng/kg	EMPC
57117-41-6	1,2,3,7,8-PeCDF	1	1.442	1.318-1.783	0.221	0.998	6.85	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.524	1.318-1.783	0.217	0.998	16.4	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.592	1.318-1.783	0.411	0.998	8.75	ng/kg	
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.274	1.054-1.426	0.196	0.998	109	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.275	1.054-1.426	0.178	0.998	26.0	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.258	1.054-1.426	0.191	0.998	32.0	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.196	1.054-1.426	0.213	0.998	18.0	ng/kg	
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.311	1.054-1.426	0.231	0.998	8.14	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.221	1.054-1.426	0.230	0.998	44.2	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.265	1.054-1.426	0.235	0.998	18.5	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.026	0.893-1.208	0.432	0.998	436	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.041	0.893-1.208	0.582	0.998	60.8	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.032	0.893-1.208	0.791	2.49	1190	ng/kg	B
39001-02-0	OCDF	1	0.884	0.757-1.024	0.368	2.49	924	ng/kg	B
3268-87-9	OCDD	1	0.878	0.757-1.024	0.908	9.98	9570	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	127	ng/kg
41903-57-5	Total TCDD	1	0.000			0.998	18.9	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.998	260	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.998	55.5	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.998	801	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.998	308	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.998	1610	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.998	2240	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 61.38  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 61.38



Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:22 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40**

**ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.927	1.001	1.729e4	2.362e4	0.876	0.732	0.770	1446	1996	2.32e5	3.13e5	160.7	156.6	NO	dd	dd	4.190
12378-PeCDF	30.070	1.001	1.780e4	1.234e4	0.845	1.442	1.550	2146	2900	2.79e5	1.91e5	130.2	65.7	NO	bb	bb	3.432
23478-PeCDF	31.407	1.001	4.430e4	2.906e4	0.911	1.524	1.550	2146	2900	6.80e5	4.51e5	317.0	155.3	NO	db	dd	8.227
123478-HxCDF	35.017	1.000	2.764e5	2.169e5	1.182	1.274	1.240	2316	2423	4.47e6	3.48e6	1930.4	1436.0	NO	dd	dd	54.562
234678-HxCDF	35.986	1.000	7.878e4	6.263e4	1.229	1.258	1.240	2316	2423	9.66e5	7.63e5	417.4	315.0	NO	bb	bb	16.048
123678-HxCDF	35.151	1.000	7.013e4	5.499e4	1.248	1.275	1.240	2316	2423	1.02e6	8.33e5	440.9	343.8	NO	dd	dd	13.022
123789-HxCDF	37.011	1.000	3.760e4	3.143e4	1.187	1.196	1.240	2316	2423	5.96e5	4.91e5	257.4	202.6	NO	bb	bb	9.000
1234678-HpCDF	38.883	1.001	8.129e5	7.923e5	1.204	1.026	1.050	5089	3856	1.33e7	1.30e7	2615.8	3370.3	NO	bb	bb	218.365
1234789-HpCDF	41.133	1.001	9.431e4	9.063e4	1.165	1.041	1.050	5089	3856	1.36e6	1.30e6	267.6	337.6	NO	bb	bb	30.478
OCDF	45.393	1.006	1.215e6	1.374e6	1.186	0.884	0.890	2061	2247	1.50e7	1.71e7	7300.5	7588.6	NO	bb	bb	463.246
2378-TCDD	26.562	1.001	2.207e3	3.516e3	1.236	0.628	0.770	2080	1724	3.39e4	5.38e4	16.3	31.2	YES	bd	bd	0.536
12378-PeCDD	31.653	1.000	1.879e4	1.180e4	1.087	1.592	1.550	2640	4637	2.31e5	1.46e5	87.3	31.4	NO	bb	bb	4.385
123478-HxCDD	36.131	1.000	1.677e4	1.279e4	0.987	1.311	1.240	2154	2602	2.83e5	2.13e5	131.3	81.9	NO	bd	bd	4.079
123678-HxCDD	36.254	1.001	9.315e4	7.627e4	1.021	1.221	1.240	2154	2602	1.55e6	1.24e6	718.5	478.3	NO	db	db	22.163
123789-HxCDD	36.632	1.011	3.790e4	2.996e4	0.985	1.265	1.240	2154	2602	6.31e5	5.11e5	292.8	196.4	NO	bb	bb	9.286
1234678-HpCDD	40.387	1.001	1.845e6	1.788e6	1.253	1.032	1.050	6371	6278	2.94e7	2.84e7	4615.3	4517.5	NO	bb	bb	594.505
OCDD	45.155	1.000	1.165e7	1.327e7	1.103	0.878	0.890	4717	5162	1.45e8	1.65e8	30817.3	31887.1	NO	bb	bb	4797.968
13C-2378-TCDF	25.897	1.006	4.840e5	6.304e5	1.768	0.768	0.770	3311	2171	7.74e6	9.93e6	2339.2	4573.6	NO	bb	bb	72.443
13C-12378-PeCDF	30.048	1.168	6.259e5	4.139e5	1.527	1.512	1.550	2680	2180	9.76e6	6.49e6	3643.2	2975.4	NO	bb	bb	78.258
13C-23478-PeCDF	31.385	1.220	5.912e5	3.874e5	1.466	1.526	1.550	2680	2180	9.22e6	6.07e6	3440.4	2782.6	NO	bb	bb	76.708
13C-123478-HxCDF	35.006	0.956	2.580e5	5.071e5	1.054	0.509	0.510	1541	2392	4.13e6	8.15e6	2681.7	3405.9	NO	bd	bd	80.087
13C-123678-HxCDF	35.140	0.960	2.592e5	5.107e5	1.080	0.507	0.510	1541	2392	4.30e6	8.38e6	2791.4	3502.5	NO	db	db	78.631
13C-234678-HxCDF	35.998	0.983	2.423e5	4.748e5	1.014	0.510	0.510	1541	2392	4.08e6	7.98e6	2646.6	3335.5	NO	bb	bb	77.977
13C-123789-HxCDF	37.022	1.011	2.174e5	4.290e5	0.928	0.507	0.510	1541	2392	3.78e6	7.44e6	2449.9	3111.4	NO	bb	bb	76.837
13C-1234678-HpCDF	38.861	1.061	1.911e5	4.194e5	1.036	0.456	0.440	2068	1813	3.22e6	7.08e6	1556.1	3904.0	NO	bb	bb	64.991
13C-1234789-HpCDF	41.111	1.123	1.598e5	3.609e5	0.905	0.443	0.440	2068	1813	2.42e6	5.44e6	1171.1	2998.4	NO	bb	bb	63.471
13C-1234-TCDD	25.730	0.000	3.835e5	4.866e5	1.000	0.788	0.770	2519	1504	5.87e6	7.45e6	2329.0	4955.3	NO	bb	bb	100.000
13C-2378-TCDD	26.532	1.031	3.795e5	4.838e5	1.103	0.784	0.770	2519	1504	5.98e6	7.67e6	2372.6	5097.9	NO	bb	bb	89.959
13C-12378-PeCDD	31.641	1.230	3.935e5	2.485e5	0.914	1.584	1.550	1764	1590	5.98e6	3.85e6	3389.0	2420.7	NO	bb	bb	80.717
13C-123478-HxCDD	36.120	0.986	4.097e5	3.245e5	0.933	1.263	1.240	2148	2189	6.96e6	5.47e6	3241.3	2499.3	NO	bd	bd	86.803
13C-123678-HxCDD	36.231	0.989	4.146e5	3.343e5	0.965	1.240	1.240	2148	2189	6.71e6	5.40e6	3122.3	2466.0	NO	db	db	85.632
13C-1234678-HpCDD	40.365	1.102	2.514e5	2.364e5	0.782	1.064	1.050	1585	1627	3.94e6	3.77e6	2487.3	2317.0	NO	bb	bb	68.800
13C-OCDD	45.137	1.233	4.496e5	4.926e5	0.788	0.913	0.890	1798	1432	5.64e6	6.17e6	3136.3	4311.0	NO	bb	bb	131.849
13C-123789-HxCDD	36.621	0.000	5.007e5	4.059e5	1.000	1.233	1.240	2148	2189	8.20e6	6.55e6	3819.9	2994.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.547	1.032	3.704e5		1.233			1871		5.59e6		2989.4			bb		34.510

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:22 Pacific Standard Time

ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.404	0.865	9.308e3	1.115e4	1.064	0.835	0.770	1446	1996	1.32e5	1.55e5	91.4	77.6	NO	db	db	1.725
1289-TCDF	27.363	1.057	2.693e3	1.747e3	0.858	1.541	0.770	1446	1996	2.23e4	2.42e4	15.5	12.1	YES	MM	bd	0.464
13468-PECDF					1.013		1.550	1789	1430								
12389-PECDF					0.844		1.550	2146	2900								
123468-HXCDF	33.368	0.953	1.311e5	1.048e5	1.197	1.251	1.240	2316	2423	1.99e6	1.62e6	859.9	667.3	NO	bd	bd	25.761
1368-TCDD					1.084		0.770	2080	1724								
1289-TCDD	27.152	1.023	9.400e2	9.899e2	0.975	0.950	0.770	2080	1724	1.57e4	1.35e4	7.5	7.8	YES	bb	db	0.229
12479-PECDD	28.945	0.915	6.178e4	4.029e4	1.837	1.533	1.550	2640	4637	6.09e5	3.98e5	230.8	85.9	NO	bb	bb	8.654
12389-PECDD	32.065	1.013	4.129e3	2.152e3	1.252	1.919	1.550	2640	4637	6.07e4	3.45e4	23.0	7.4	YES	bb	bb	0.781
124679-HXCDD	34.137	0.945	2.126e5	1.753e5	1.033	1.212	1.240	2154	2602	3.39e6	2.85e6	1574.9	1096.5	NO	bb	bb	51.152
1234679-HPCDD	39.329	0.974	1.690e6	1.621e6	1.286	1.043	1.050	6371	6278	2.84e7	2.73e7	4457.1	4341.0	NO	bb	bb	527.787
Total-tetrafurans			2.855e5		0.933			1446		3.84e6							63.870
Total-penta1			2.242e5					1789		3.29e6							39.024
Total-pentafurans			4.829e5		0.866			2146		6.59e6							91.328
Total-hexafurans			1.974e6		1.208			2316		3.01e7							401.611
Total-heptafurans			2.799e6		1.185			5089		4.60e7							807.822
Total-Furans			6.982e6		1.067			1446		1.05e8							1867.248
Total-tetradoxins			3.944e4		1.099			2080		5.83e5							9.485
Total-pentadoxins			1.589e5		1.392			2640		2.00e6							27.788
Total-hexadoxins			6.311e5		1.007			2154		9.18e6							154.372
Total-heptadoxins			3.534e6		1.269			6371		5.78e7							1122.292
Total-Dioxins			1.602e7		1.165			2080		2.15e8							6111.905
Total-TEQ			2.300e7					2080		3.20e8							7979.154
FUNCTION1 PFK			6.918e7					751452		2.36e8							
FUNCTION2 PFK			3.113e6					505776		2.73e7							0.000
FUNCTION3 PFK			1.427e6					334127		1.38e7							0.000
FUNCTION4 PFK			6.667e6					350373		1.95e7							
FUNCTION5 PFK			0.000e0					156678		0.00e0							
FUNCTION1 HXCD...			3.837e4					933		6.13e5							0.000
FUNCTION1 HPCD...			5.211e3					1011		7.62e4							0.000
FUNCTION2 HPCD...			9.503e3					1383		1.60e5							0.000
FUNCTION3 OCDPE			1.422e3					971		2.99e4							0.000
FUNCTION4 NCDPE			3.702e3					1194		8.02e4							0.000
FUNCTION5 DCDPE			1.377e3					879		1.43e4							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:22 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33

Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.43	1.199e3	1.519e3	0.933	0.79	0.77	14.1	YES	NO	bd	bd	0.261
2	Total-tetrafurans	24.19	1.479e4	2.051e4	0.933	0.72	0.77	161.6	YES	NO	db	db	3.396
3	Total-tetrafurans	24.07	1.082e4	1.381e4	0.933	0.78	0.77	126.8	YES	NO	dd	dd	2.370
4	Total-tetrafurans	23.96	2.671e4	3.473e4	0.933	0.77	0.77	295.2	YES	NO	dd	dd	5.911
5	Total-tetrafurans	23.73	3.592e4	4.830e4	0.933	0.74	0.77	192.7	YES	NO	dd	dd	8.102
6	Total-tetrafurans	23.58	1.495e4	1.992e4	0.933	0.75	0.77	102.5	YES	NO	dd	dd	3.354
7	Total-tetrafurans	23.25	1.599e4	2.183e4	0.933	0.73	0.77	130.5	YES	NO	bd	bd	3.638
8	Total-tetrafurans	22.66	1.222e4	1.537e4	0.933	0.80	0.77	128.8	YES	NO	bb	bb	2.655
9	1368-TCDF	22.40	9.308e3	1.115e4	1.064	0.83	0.77	91.4	YES	NO	db	db	1.725
10	Total-tetrafurans	22.28	8.422e1	1.021e2	0.933	0.82	0.77	1.4	NO	NO	bd	bd	0.018
11	Total-tetrafurans	26.96	2.878e3	3.736e3	0.933	0.77	0.77	29.1	YES	NO	bb	bb	0.636
12	Total-tetrafurans	26.31	8.129e3	1.195e4	0.933	0.68	0.77	90.2	YES	NO	dd	dd	1.932
13	Total-tetrafurans	26.14	1.954e4	2.535e4	0.933	0.77	0.77	193.2	YES	NO	dd	dd	4.319
14	Total-tetrafurans	26.05	9.491e3	1.237e4	0.933	0.77	0.77	92.1	YES	NO	dd	dd	2.103
15	2378-TCDF	25.93	1.729e4	2.362e4	0.876	0.73	0.77	160.7	YES	NO	dd	dd	4.190
16	Total-tetrafurans	25.55	9.849e2	1.416e3	0.933	0.70	0.77	12.0	YES	NO	dd	dd	0.231
17	Total-tetrafurans	25.41	6.086e3	7.235e3	0.933	0.84	0.77	60.8	YES	NO	dd	dd	1.282
18	Total-tetrafurans	25.23	1.234e4	1.747e4	0.933	0.71	0.77	89.6	YES	NO	bd	dd	2.868
19	Total-tetrafurans	25.02	1.487e4	2.080e4	0.933	0.71	0.77	158.6	YES	NO	bb	dd	3.431
20	Total-tetrafurans	24.82	2.465e4	3.263e4	0.933	0.76	0.77	257.1	YES	NO	db	dd	5.510
21	Total-tetrafurans	24.69	1.094e4	1.378e4	0.933	0.79	0.77	118.3	YES	NO	dd	dd	2.378
22	Total-tetrafurans	24.60	1.633e4	2.068e4	0.933	0.79	0.77	149.3	YES	NO	dd	dd	3.561

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.33	2.242e5	1.479e5		1.52	1.55	1837.2	YES	NO	bb	bb	39.024

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:22 Pacific Standard Time

ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

## PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.48	5.571e3	3.844e3	0.866	1.45	1.55	41.2	YES	NO	dd	dd	1.077
2	Total-pentafurans	29.29	3.528e3	2.402e3	0.866	1.47	1.55	20.7	YES	NO	dd	dd	0.678
3	Total-pentafurans	29.12	1.158e4	7.717e3	0.866	1.50	1.55	79.8	YES	NO	dd	dd	2.207
4	Total-pentafurans	28.99	2.232e5	1.464e5	0.866	1.53	1.55	1281.4	YES	NO	dd	dd	42.263
5	Total-pentafurans	28.81	3.297e4	1.977e4	0.866	1.67	1.55	185.3	YES	NO	dd	dd	6.030
6	Total-pentafurans	28.39	9.362e2	5.381e2	0.866	1.74	1.55	7.2	YES	NO	bb	dd	0.169
7	23478-PeCDF	31.41	4.430e4	2.906e4	0.911	1.52	1.55	317.0	YES	NO	db	dd	8.227
8	Total-pentafurans	31.26	3.784e4	2.548e4	0.866	1.48	1.55	264.9	YES	NO	dd	dd	7.241
9	Total-pentafurans	31.14	1.254e4	8.814e3	0.866	1.42	1.55	87.4	YES	NO	bd	bd	2.442
10	Total-pentafurans	30.56	1.022e3	7.477e2	0.866	1.37	1.55	7.5	YES	NO	bb	dd	0.202
11	Total-pentafurans	30.38	5.171e3	3.732e3	0.866	1.39	1.55	41.3	YES	NO	db	dd	1.018
12	Total-pentafurans	30.27	3.222e4	2.105e4	0.866	1.53	1.55	238.1	YES	NO	bd	bd	6.092
13	12378-PeCDF	30.07	1.780e4	1.234e4	0.845	1.44	1.55	130.2	YES	NO	bb	bb	3.432
14	Total-pentafurans	29.78	2.109e4	1.575e4	0.866	1.34	1.55	136.5	YES	NO	db	db	4.213
15	Total-pentafurans	29.70	2.268e4	1.302e4	0.866	1.74	1.55	153.5	YES	NO	dd	dd	4.082
16	Total-pentafurans	29.60	1.045e4	6.649e3	0.866	1.57	1.55	80.2	YES	NO	dd	dd	1.955

## HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	34.40	8.723e5	6.905e5	1.208	1.26	1.24	5880.6	YES	NO	bd	bb	178.471
2	Total-hexafurans	34.10	2.313e4	1.864e4	1.208	1.24	1.24	157.4	YES	NO	bb	bb	4.771
3	Total-hexafurans	33.58	4.450e5	3.603e5	1.208	1.24	1.24	2798.9	YES	NO	db	dd	91.955
4	123468-HxCDF	33.37	1.311e5	1.048e5	1.197	1.25	1.24	859.9	YES	NO	bd	bd	25.761
5	123789-HxCDF	37.01	3.760e4	3.143e4	1.187	1.20	1.24	257.4	YES	NO	bb	bb	9.000
6	234678-HxCDF	35.99	7.878e4	6.263e4	1.229	1.26	1.24	417.4	YES	NO	bb	bb	16.048
7	Total-hexafurans	35.67	2.801e3	1.978e3	1.208	1.42	1.24	18.0	YES	NO	db	bb	0.546
8	Total-hexafurans	35.49	7.534e3	5.642e3	1.208	1.34	1.24	46.3	YES	NO	dd	db	1.505
9	123678-HxCDF	35.15	7.013e4	5.499e4	1.248	1.28	1.24	440.9	YES	NO	dd	dd	13.022
10	123478-HxCDF	35.02	2.764e5	2.169e5	1.182	1.27	1.24	1930.4	YES	NO	dd	dd	54.562
11	Total-hexafurans	34.86	2.956e4	2.273e4	1.208	1.30	1.24	209.3	YES	NO	dd	bd	5.971

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.88	8.129e5	7.923e5	1.204	1.03	1.05	2615.8	YES	NO	bb	bb	218.365
2	1234789-HpCDF	41.13	9.431e4	9.063e4	1.165	1.04	1.05	267.6	YES	NO	bb	bb	30.478
3	Total-heptafurans	39.54	1.875e6	1.838e6	1.185	1.02	1.05	6099.0	YES	NO	bb	bb	554.165
4	Total-heptafurans	39.30	1.679e4	1.547e4	1.185	1.09	1.05	55.0	YES	NO	bb	bb	4.815



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.43	1.199e3	1.519e3	0.933	0.79	0.77	14.1	YES	NO	bd	bd	0.261
2	Total-tetrafurans	24.19	1.479e4	2.051e4	0.933	0.72	0.77	161.6	YES	NO	db	db	3.396
3	Total-tetrafurans	24.07	1.082e4	1.381e4	0.933	0.78	0.77	126.8	YES	NO	dd	dd	2.370
4	Total-tetrafurans	23.96	2.671e4	3.473e4	0.933	0.77	0.77	295.2	YES	NO	dd	dd	5.911
5	Total-tetrafurans	23.73	3.592e4	4.830e4	0.933	0.74	0.77	192.7	YES	NO	dd	dd	8.102
6	Total-tetrafurans	23.58	1.495e4	1.992e4	0.933	0.75	0.77	102.5	YES	NO	dd	dd	3.354
7	Total-tetrafurans	23.25	1.599e4	2.183e4	0.933	0.73	0.77	130.5	YES	NO	bd	bd	3.638
8	Total-tetrafurans	22.66	1.222e4	1.537e4	0.933	0.80	0.77	128.8	YES	NO	bb	bb	2.655
9	1368-TCDF	22.40	9.308e3	1.115e4	1.064	0.83	0.77	91.4	YES	NO	db	db	1.725
10	Total-tetrafurans	22.28	8.422e1	1.021e2	0.933	0.82	0.77	1.4	NO	NO	bd	bd	0.018
11	Total-tetrafurans	26.96	2.878e3	3.736e3	0.933	0.77	0.77	29.1	YES	NO	bb	bb	0.636
12	Total-tetrafurans	26.31	8.129e3	1.195e4	0.933	0.68	0.77	90.2	YES	NO	dd	dd	1.932
13	Total-tetrafurans	26.14	1.954e4	2.535e4	0.933	0.77	0.77	193.2	YES	NO	dd	dd	4.319
14	Total-tetrafurans	26.05	9.491e3	1.237e4	0.933	0.77	0.77	92.1	YES	NO	dd	dd	2.103
15	2378-TCDF	25.93	1.729e4	2.362e4	0.876	0.73	0.77	160.7	YES	NO	dd	dd	4.190
16	Total-tetrafurans	25.55	9.849e2	1.416e3	0.933	0.70	0.77	12.0	YES	NO	dd	dd	0.231
17	Total-tetrafurans	25.41	6.086e3	7.235e3	0.933	0.84	0.77	60.8	YES	NO	dd	dd	1.282
18	Total-tetrafurans	25.23	1.234e4	1.747e4	0.933	0.71	0.77	89.6	YES	NO	bd	dd	2.868
19	Total-tetrafurans	25.02	1.487e4	2.080e4	0.933	0.71	0.77	158.6	YES	NO	bb	dd	3.431
20	Total-tetrafurans	24.82	2.465e4	3.263e4	0.933	0.76	0.77	257.1	YES	NO	db	dd	5.510
21	Total-tetrafurans	24.69	1.094e4	1.378e4	0.933	0.79	0.77	118.3	YES	NO	dd	dd	2.378
22	Total-tetrafurans	24.60	1.633e4	2.068e4	0.933	0.79	0.77	149.3	YES	NO	dd	dd	3.561
23	Total-Furans	27.83	1.804e3	2.335e3	1.067	0.77	0.77	20.4	YES	NO	db	bb	0.348
24	Total-pentafurans	29.48	5.571e3	3.844e3	0.866	1.45	1.55	41.2	YES	NO	dd	dd	1.077
25	Total-pentafurans	29.29	3.528e3	2.402e3	0.866	1.47	1.55	20.7	YES	NO	dd	dd	0.678
26	Total-pentafurans	29.12	1.158e4	7.717e3	0.866	1.50	1.55	79.8	YES	NO	dd	dd	2.207
27	Total-pentafurans	28.99	2.232e5	1.464e5	0.866	1.53	1.55	1281.4	YES	NO	dd	dd	42.263
28	Total-pentafurans	28.81	3.297e4	1.977e4	0.866	1.67	1.55	185.3	YES	NO	dd	dd	6.030
29	Total-pentafurans	28.39	9.362e2	5.381e2	0.866	1.74	1.55	7.2	YES	NO	bb	dd	0.169
30	23478-PeCDF	31.41	4.430e4	2.906e4	0.911	1.52	1.55	317.0	YES	NO	db	dd	8.227
31	Total-pentafurans	31.26	3.784e4	2.548e4	0.866	1.48	1.55	264.9	YES	NO	dd	dd	7.241
32	Total-pentafurans	31.14	1.254e4	8.814e3	0.866	1.42	1.55	87.4	YES	NO	bd	bd	2.442
33	Total-pentafurans	30.56	1.022e3	7.477e2	0.866	1.37	1.55	7.5	YES	NO	bb	dd	0.202
34	Total-pentafurans	30.38	5.171e3	3.732e3	0.866	1.39	1.55	41.3	YES	NO	db	dd	1.018
35	Total-pentafurans	30.27	3.222e4	2.105e4	0.866	1.53	1.55	238.1	YES	NO	bd	bd	6.092
36	12378-PeCDF	30.07	1.780e4	1.234e4	0.845	1.44	1.55	130.2	YES	NO	bb	bb	3.432
37	Total-pentafurans	29.78	2.109e4	1.575e4	0.866	1.34	1.55	136.5	YES	NO	db	db	4.213

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-pentafurans	29.70	2.268e4	1.302e4	0.866	1.74	1.55	153.5	YES	NO	dd	dd	4.082
39	Total-pentafurans	29.60	1.045e4	6.649e3	0.866	1.57	1.55	80.2	YES	NO	dd	dd	1.955
40	Total-hexafurans	34.40	8.723e5	6.905e5	1.208	1.26	1.24	5880.6	YES	NO	bd	bb	178.471
41	Total-hexafurans	34.10	2.313e4	1.864e4	1.208	1.24	1.24	157.4	YES	NO	bb	bb	4.771
42	Total-hexafurans	33.58	4.450e5	3.603e5	1.208	1.24	1.24	2798.9	YES	NO	db	dd	91.955
43	123468-HxCDF	33.37	1.311e5	1.048e5	1.197	1.25	1.24	859.9	YES	NO	bd	bd	25.761
44	123789-HxCDF	37.01	3.760e4	3.143e4	1.187	1.20	1.24	257.4	YES	NO	bb	bb	9.000
45	234678-HxCDF	35.99	7.878e4	6.263e4	1.229	1.26	1.24	417.4	YES	NO	bb	bb	16.048
46	Total-hexafurans	35.67	2.801e3	1.978e3	1.208	1.42	1.24	18.0	YES	NO	db	bb	0.546
47	Total-hexafurans	35.49	7.534e3	5.642e3	1.208	1.34	1.24	46.3	YES	NO	dd	db	1.505
48	123678-HxCDF	35.15	7.013e4	5.499e4	1.248	1.28	1.24	440.9	YES	NO	dd	dd	13.022
49	123478-HxCDF	35.02	2.764e5	2.169e5	1.182	1.27	1.24	1930.4	YES	NO	dd	dd	54.562
50	Total-hexafurans	34.86	2.956e4	2.273e4	1.208	1.30	1.24	209.3	YES	NO	dd	bd	5.971
51	1234678-HpCDF	38.88	8.129e5	7.923e5	1.204	1.03	1.05	2615.8	YES	NO	bb	bb	218.365
52	1234789-HpCDF	41.13	9.431e4	9.063e4	1.165	1.04	1.05	267.6	YES	NO	bb	bb	30.478
53	Total-heptafurans	39.54	1.875e6	1.838e6	1.185	1.02	1.05	6099.0	YES	NO	bb	bb	554.165
54	Total-heptafurans	39.30	1.679e4	1.547e4	1.185	1.09	1.05	55.0	YES	NO	bb	bb	4.815
55	OCDF	45.39	1.215e6	1.374e6	1.186	0.88	0.89	7300.5	YES	NO	bb	bb	463.246
56	Total-penta1	27.33	2.242e5	1.479e5		1.52	1.55	1837.2	YES	NO	bb	bb	39.024

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.68	2.386e3	3.418e3	1.099	0.70	0.77	18.1	YES	NO	db	db	0.612
2	Total-tetradoxins	26.17	3.585e3	4.906e3	1.099	0.73	0.77	19.6	YES	NO	bb	bd	0.895
3	Total-tetradoxins	25.73	2.370e3	3.060e3	1.099	0.77	0.77	16.4	YES	NO	bd	bb	0.573
4	Total-tetradoxins	25.43	1.396e3	1.828e3	1.099	0.76	0.77	11.0	YES	NO	bd	bd	0.340
5	Total-tetradoxins	25.17	6.996e3	1.061e4	1.099	0.66	0.77	56.5	YES	NO	bb	bd	1.856
6	Total-tetradoxins	24.90	5.917e3	7.064e3	1.099	0.84	0.77	37.1	YES	NO	db	bd	1.369
7	Total-tetradoxins	24.19	4.020e3	4.956e3	1.099	0.81	0.77	29.4	YES	NO	db	dd	0.946
8	Total-tetradoxins	23.99	1.277e4	1.468e4	1.099	0.87	0.77	92.1	YES	NO	dd	dd	2.894

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**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.98	5.768e3	3.610e3	1.392	1.60	1.55	31.7	YES	NO	bd	bb	1.049
2	Total-pentadioxins	30.59	1.390e4	1.028e4	1.392	1.35	1.55	56.9	YES	NO	db	db	2.707
3	Total-pentadioxins	30.42	1.358e4	9.448e3	1.392	1.44	1.55	77.0	YES	NO	dd	dd	2.576
4	Total-pentadioxins	30.28	1.569e4	1.063e4	1.392	1.48	1.55	96.7	YES	NO	bd	bd	2.945
5	Total-pentadioxins	30.07	1.810e4	1.235e4	1.392	1.47	1.55	107.9	YES	NO	bb	bb	3.407
6	Total-pentadioxins	29.85	2.233e3	1.273e3	1.392	1.75	1.55	15.4	YES	NO	bb	bb	0.392
7	Total-pentadioxins	29.45	9.059e3	5.895e3	1.392	1.54	1.55	54.1	YES	NO	bb	bb	1.673
8	12479-PECDD	28.95	6.178e4	4.029e4	1.837	1.53	1.55	230.8	YES	NO	bb	bb	8.654
9	12378-PeCDD	31.65	1.879e4	1.180e4	1.087	1.59	1.55	87.3	YES	NO	bb	bb	4.385

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	36.41	7.113e3	5.869e3	1.007	1.21	1.24	61.4	YES	NO	bd	bd	1.739
2	123678-HxCDD	36.25	9.315e4	7.627e4	1.021	1.22	1.24	718.5	YES	NO	db	db	22.163
3	123478-HxCDD	36.13	1.677e4	1.279e4	0.987	1.31	1.24	131.3	YES	NO	bd	bd	4.079
4	Total-hexadioxins	35.26	2.175e5	1.901e5	1.007	1.14	1.24	1142.9	YES	NO	bd	bb	54.610
5	Total-hexadioxins	34.91	4.265e4	3.570e4	1.007	1.19	1.24	312.9	YES	NO	bb	bb	10.498
6	Total-hexadioxins	34.33	1.854e3	1.674e3	1.007	1.11	1.24	14.8	YES	NO	bb	bb	0.473
7	124679-HXCDD	34.14	2.126e5	1.753e5	1.033	1.21	1.24	1574.9	YES	NO	bb	bb	51.152
8	123789-HxCDD	36.63	3.790e4	2.996e4	0.985	1.26	1.24	292.8	YES	NO	bb	bb	9.286
9	Total-hexadioxins	36.50	1.536e3	1.237e3	1.007	1.24	1.24	13.2	YES	NO	db	db	0.371

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.33	1.690e6	1.621e6	1.286	1.04	1.05	4457.1	YES	NO	bb	bb	527.787
2	1234678-HpCDD	40.39	1.845e6	1.788e6	1.253	1.03	1.05	4615.3	YES	NO	bb	bb	594.505

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## Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.68	2.386e3	3.418e3	1.099	0.70	0.77	18.1	YES	NO	db	db	0.612
2	Total-tetradoxins	26.17	3.585e3	4.906e3	1.099	0.73	0.77	19.6	YES	NO	bb	bd	0.895
3	Total-tetradoxins	25.73	2.370e3	3.060e3	1.099	0.77	0.77	16.4	YES	NO	bd	bb	0.573
4	Total-tetradoxins	25.43	1.396e3	1.828e3	1.099	0.76	0.77	11.0	YES	NO	bd	bd	0.340
5	Total-tetradoxins	25.17	6.996e3	1.061e4	1.099	0.66	0.77	56.5	YES	NO	bb	bd	1.856
6	Total-tetradoxins	24.90	5.917e3	7.064e3	1.099	0.84	0.77	37.1	YES	NO	db	bd	1.369
7	Total-tetradoxins	24.19	4.020e3	4.956e3	1.099	0.81	0.77	29.4	YES	NO	db	dd	0.946
8	Total-tetradoxins	23.99	1.277e4	1.468e4	1.099	0.87	0.77	92.1	YES	NO	dd	dd	2.894
9	Total-pentadoxins	30.98	5.768e3	3.610e3	1.392	1.60	1.55	31.7	YES	NO	bd	bb	1.049
10	Total-pentadoxins	30.59	1.390e4	1.028e4	1.392	1.35	1.55	56.9	YES	NO	db	db	2.707
11	Total-pentadoxins	30.42	1.358e4	9.448e3	1.392	1.44	1.55	77.0	YES	NO	dd	dd	2.576
12	Total-pentadoxins	30.28	1.569e4	1.063e4	1.392	1.48	1.55	96.7	YES	NO	bd	bd	2.945
13	Total-pentadoxins	30.07	1.810e4	1.235e4	1.392	1.47	1.55	107.9	YES	NO	bb	bb	3.407
14	Total-pentadoxins	29.85	2.233e3	1.273e3	1.392	1.75	1.55	15.4	YES	NO	bb	bb	0.392
15	Total-pentadoxins	29.45	9.059e3	5.895e3	1.392	1.54	1.55	54.1	YES	NO	bb	bb	1.673
16	12479-PECDD	28.95	6.178e4	4.029e4	1.837	1.53	1.55	230.8	YES	NO	bb	bb	8.654
17	12378-PeCDD	31.65	1.879e4	1.180e4	1.087	1.59	1.55	87.3	YES	NO	bb	bb	4.385
18	Total-hexadoxins	36.41	7.113e3	5.869e3	1.007	1.21	1.24	61.4	YES	NO	bd	bd	1.739
19	123678-HxCDD	36.25	9.315e4	7.627e4	1.021	1.22	1.24	718.5	YES	NO	db	db	22.163
20	123478-HxCDD	36.13	1.677e4	1.279e4	0.987	1.31	1.24	131.3	YES	NO	bd	bd	4.079
21	Total-hexadoxins	35.26	2.175e5	1.901e5	1.007	1.14	1.24	1142.9	YES	NO	bd	bb	54.610
22	Total-hexadoxins	34.91	4.265e4	3.570e4	1.007	1.19	1.24	312.9	YES	NO	bb	bb	10.498
23	Total-hexadoxins	34.33	1.854e3	1.674e3	1.007	1.11	1.24	14.8	YES	NO	bb	bb	0.473
24	124679-HXCDD	34.14	2.126e5	1.753e5	1.033	1.21	1.24	1574.9	YES	NO	bb	bb	51.152
25	123789-HxCDD	36.63	3.790e4	2.996e4	0.985	1.26	1.24	292.8	YES	NO	bb	bb	9.286
26	Total-hexadoxins	36.50	1.536e3	1.237e3	1.007	1.24	1.24	13.2	YES	NO	db	db	0.371
27	1234679-HPCDD	39.33	1.690e6	1.621e6	1.286	1.04	1.05	4457.1	YES	NO	bb	bb	527.787
28	1234678-HpCDD	40.39	1.845e6	1.788e6	1.253	1.03	1.05	4615.3	YES	NO	bb	bb	594.505
29	OCDD	45.16	1.165e7	1.327e7	1.103	0.88	0.89	30817.3	YES	NO	bb	bb	4797.9...

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:22 Pacific Standard Time

ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.43	1.199e3	1.519e3	0.933	0.79	0.77	14.1	YES	NO	bd	bd	0.261
2	Total-tetrafurans	24.19	1.479e4	2.051e4	0.933	0.72	0.77	161.6	YES	NO	db	db	3.396
3	Total-tetrafurans	24.07	1.082e4	1.381e4	0.933	0.78	0.77	126.8	YES	NO	dd	dd	2.370
4	Total-tetrafurans	23.96	2.671e4	3.473e4	0.933	0.77	0.77	295.2	YES	NO	dd	dd	5.911
5	Total-tetrafurans	23.73	3.592e4	4.830e4	0.933	0.74	0.77	192.7	YES	NO	dd	dd	8.102
6	Total-tetrafurans	23.58	1.495e4	1.992e4	0.933	0.75	0.77	102.5	YES	NO	dd	dd	3.354
7	Total-tetrafurans	23.25	1.599e4	2.183e4	0.933	0.73	0.77	130.5	YES	NO	bd	bd	3.638
8	Total-tetrafurans	22.66	1.222e4	1.537e4	0.933	0.80	0.77	128.8	YES	NO	bb	bb	2.655
9	1368-TCDF	22.40	9.308e3	1.115e4	1.064	0.83	0.77	91.4	YES	NO	db	db	1.725
10	Total-tetrafurans	22.28	8.422e1	1.021e2	0.933	0.82	0.77	1.4	NO	NO	bd	bd	0.018
11	Total-tetrafurans	26.96	2.878e3	3.736e3	0.933	0.77	0.77	29.1	YES	NO	bb	bb	0.636
12	Total-tetrafurans	26.31	8.129e3	1.195e4	0.933	0.68	0.77	90.2	YES	NO	dd	dd	1.932
13	Total-tetrafurans	26.14	1.954e4	2.535e4	0.933	0.77	0.77	193.2	YES	NO	dd	dd	4.319
14	Total-tetrafurans	26.05	9.491e3	1.237e4	0.933	0.77	0.77	92.1	YES	NO	dd	dd	2.103
15	2378-TCDF	25.93	1.729e4	2.362e4	0.876	0.73	0.77	160.7	YES	NO	dd	dd	4.190
16	Total-tetrafurans	25.55	9.849e2	1.416e3	0.933	0.70	0.77	12.0	YES	NO	dd	dd	0.231
17	Total-tetrafurans	25.41	6.086e3	7.235e3	0.933	0.84	0.77	60.8	YES	NO	dd	dd	1.282
18	Total-tetrafurans	25.23	1.234e4	1.747e4	0.933	0.71	0.77	89.6	YES	NO	bd	dd	2.868
19	Total-tetrafurans	25.02	1.487e4	2.080e4	0.933	0.71	0.77	158.6	YES	NO	bb	dd	3.431
20	Total-tetrafurans	24.82	2.465e4	3.263e4	0.933	0.76	0.77	257.1	YES	NO	db	dd	5.510
21	Total-tetrafurans	24.69	1.094e4	1.378e4	0.933	0.79	0.77	118.3	YES	NO	dd	dd	2.378
22	Total-tetrafurans	24.60	1.633e4	2.068e4	0.933	0.79	0.77	149.3	YES	NO	dd	dd	3.561
23	Total-Furans	27.83	1.804e3	2.335e3	1.067	0.77	0.77	20.4	YES	NO	db	bb	0.348
24	Total-pentafurans	29.48	5.571e3	3.844e3	0.866	1.45	1.55	41.2	YES	NO	dd	dd	1.077
25	Total-pentafurans	29.29	3.528e3	2.402e3	0.866	1.47	1.55	20.7	YES	NO	dd	dd	0.678
26	Total-pentafurans	29.12	1.158e4	7.717e3	0.866	1.50	1.55	79.8	YES	NO	dd	dd	2.207
27	Total-pentafurans	28.99	2.232e5	1.464e5	0.866	1.53	1.55	1281.4	YES	NO	dd	dd	42.263
28	Total-pentafurans	28.81	3.297e4	1.977e4	0.866	1.67	1.55	185.3	YES	NO	dd	dd	6.030
29	Total-pentafurans	28.39	9.362e2	5.381e2	0.866	1.74	1.55	7.2	YES	NO	bb	dd	0.169
30	23478-PeCDF	31.41	4.430e4	2.906e4	0.911	1.52	1.55	317.0	YES	NO	db	dd	8.227
31	Total-pentafurans	31.26	3.784e4	2.548e4	0.866	1.48	1.55	264.9	YES	NO	dd	dd	7.241
32	Total-pentafurans	31.14	1.254e4	8.814e3	0.866	1.42	1.55	87.4	YES	NO	bd	bd	2.442
33	Total-pentafurans	30.56	1.022e3	7.477e2	0.866	1.37	1.55	7.5	YES	NO	bb	dd	0.202
34	Total-pentafurans	30.38	5.171e3	3.732e3	0.866	1.39	1.55	41.3	YES	NO	db	dd	1.018
35	Total-pentafurans	30.27	3.222e4	2.105e4	0.866	1.53	1.55	238.1	YES	NO	bd	bd	6.092
36	12378-PeCDF	30.07	1.780e4	1.234e4	0.845	1.44	1.55	130.2	YES	NO	bb	bb	3.432
37	Total-pentafurans	29.78	2.109e4	1.575e4	0.866	1.34	1.55	136.5	YES	NO	db	db	4.213

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:22 Pacific Standard Time

ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-pentafurans	29.70	2.268e4	1.302e4	0.866	1.74	1.55	153.5	YES	NO	dd	dd	4.082
39	Total-pentafurans	29.60	1.045e4	6.649e3	0.866	1.57	1.55	80.2	YES	NO	dd	dd	1.955
40	Total-hexafurans	34.40	8.723e5	6.905e5	1.208	1.26	1.24	5880.6	YES	NO	bd	bb	178.471
41	Total-hexafurans	34.10	2.313e4	1.864e4	1.208	1.24	1.24	157.4	YES	NO	bb	bb	4.771
42	Total-hexafurans	33.58	4.450e5	3.603e5	1.208	1.24	1.24	2798.9	YES	NO	db	dd	91.955
43	123468-HxCDF	33.37	1.311e5	1.048e5	1.197	1.25	1.24	859.9	YES	NO	bd	bd	25.761
44	123789-HxCDF	37.01	3.760e4	3.143e4	1.187	1.20	1.24	257.4	YES	NO	bb	bb	9.000
45	234678-HxCDF	35.99	7.878e4	6.263e4	1.229	1.26	1.24	417.4	YES	NO	bb	bb	16.048
46	Total-hexafurans	35.67	2.801e3	1.978e3	1.208	1.42	1.24	18.0	YES	NO	db	bb	0.546
47	Total-hexafurans	35.49	7.534e3	5.642e3	1.208	1.34	1.24	46.3	YES	NO	dd	db	1.505
48	123678-HxCDF	35.15	7.013e4	5.499e4	1.248	1.28	1.24	440.9	YES	NO	dd	dd	13.022
49	123478-HxCDF	35.02	2.764e5	2.169e5	1.182	1.27	1.24	1930.4	YES	NO	dd	dd	54.562
50	Total-hexafurans	34.86	2.956e4	2.273e4	1.208	1.30	1.24	209.3	YES	NO	dd	bd	5.971
51	1234678-HpCDF	38.88	8.129e5	7.923e5	1.204	1.03	1.05	2615.8	YES	NO	bb	bb	218.365
52	1234789-HpCDF	41.13	9.431e4	9.063e4	1.165	1.04	1.05	267.6	YES	NO	bb	bb	30.478
53	Total-hepta furans	39.54	1.875e6	1.838e6	1.185	1.02	1.05	6099.0	YES	NO	bb	bb	554.165
54	Total-hepta furans	39.30	1.679e4	1.547e4	1.185	1.09	1.05	55.0	YES	NO	bb	bb	4.815
55	OCDF	45.39	1.215e6	1.374e6	1.186	0.88	0.89	7300.5	YES	NO	bb	bb	463.246
56	Total-penta1	27.33	2.242e5	1.479e5		1.52	1.55	1837.2	YES	NO	bb	bb	39.024
57	Total-tetradiioxins	26.68	2.386e3	3.418e3	1.099	0.70	0.77	18.1	YES	NO	db	db	0.612
58	Total-tetradiioxins	26.17	3.585e3	4.906e3	1.099	0.73	0.77	19.6	YES	NO	bb	bd	0.895
59	Total-tetradiioxins	25.73	2.370e3	3.060e3	1.099	0.77	0.77	16.4	YES	NO	bd	bb	0.573
60	Total-tetradiioxins	25.43	1.396e3	1.828e3	1.099	0.76	0.77	11.0	YES	NO	bd	bd	0.340
61	Total-tetradiioxins	25.17	6.996e3	1.061e4	1.099	0.66	0.77	56.5	YES	NO	bb	bd	1.856
62	Total-tetradiioxins	24.90	5.917e3	7.064e3	1.099	0.84	0.77	37.1	YES	NO	db	bd	1.369
63	Total-tetradiioxins	24.19	4.020e3	4.956e3	1.099	0.81	0.77	29.4	YES	NO	db	dd	0.946
64	Total-tetradiioxins	23.99	1.277e4	1.468e4	1.099	0.87	0.77	92.1	YES	NO	dd	dd	2.894
65	Total-pentadiioxins	30.98	5.768e3	3.610e3	1.392	1.60	1.55	31.7	YES	NO	bd	bb	1.049
66	Total-pentadiioxins	30.59	1.390e4	1.028e4	1.392	1.35	1.55	56.9	YES	NO	db	db	2.707
67	Total-pentadiioxins	30.42	1.358e4	9.448e3	1.392	1.44	1.55	77.0	YES	NO	dd	dd	2.576
68	Total-pentadiioxins	30.28	1.569e4	1.063e4	1.392	1.48	1.55	96.7	YES	NO	bd	bd	2.945
69	Total-pentadiioxins	30.07	1.810e4	1.235e4	1.392	1.47	1.55	107.9	YES	NO	bb	bb	3.407
70	Total-pentadiioxins	29.85	2.233e3	1.273e3	1.392	1.75	1.55	15.4	YES	NO	bb	bb	0.392
71	Total-pentadiioxins	29.45	9.059e3	5.895e3	1.392	1.54	1.55	54.1	YES	NO	bb	bb	1.673
72	12479-PECDD	28.95	6.178e4	4.029e4	1.837	1.53	1.55	230.8	YES	NO	bb	bb	8.654
73	12378-PeCDD	31.65	1.879e4	1.180e4	1.087	1.59	1.55	87.3	YES	NO	bb	bb	4.385
74	Total-hexadiioxins	36.41	7.113e3	5.869e3	1.007	1.21	1.24	61.4	YES	NO	bd	bd	1.739

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

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Printed: Friday, February 03, 2023 14:06:22 Pacific Standard Time

ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
75	123678-HxCDD	36.25	9.315e4	7.627e4	1.021	1.22	1.24	718.5	YES	NO	db	db	22.163
76	123478-HxCDD	36.13	1.677e4	1.279e4	0.987	1.31	1.24	131.3	YES	NO	bd	bd	4.079
77	Total-hexadioxins	35.26	2.175e5	1.901e5	1.007	1.14	1.24	1142.9	YES	NO	bd	bb	54.610
78	Total-hexadioxins	34.91	4.265e4	3.570e4	1.007	1.19	1.24	312.9	YES	NO	bb	bb	10.498
79	Total-hexadioxins	34.33	1.854e3	1.674e3	1.007	1.11	1.24	14.8	YES	NO	bb	bb	0.473
80	124679-HxCDD	34.14	2.126e5	1.753e5	1.033	1.21	1.24	1574.9	YES	NO	bb	bb	51.152
81	123789-HxCDD	36.63	3.790e4	2.996e4	0.985	1.26	1.24	292.8	YES	NO	bb	bb	9.286
82	Total-hexadioxins	36.50	1.536e3	1.237e3	1.007	1.24	1.24	13.2	YES	NO	db	db	0.371
83	1234679-HPCDD	39.33	1.690e6	1.621e6	1.286	1.04	1.05	4457.1	YES	NO	bb	bb	527.787
84	1234678-HpCDD	40.39	1.845e6	1.788e6	1.253	1.03	1.05	4615.3	YES	NO	bb	bb	594.505
85	OCDD	45.16	1.165e7	1.327e7	1.103	0.88	0.89	30817.3	YES	NO	bb	bb	4797.9...

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.39	6.751e5					15.8	YES		bb		
2	FUNCTION1 PFK	22.96	1.131e7					32.1	YES		bb		
3	FUNCTION1 PFK	22.40	1.953e6					12.1	YES		bb		
4	FUNCTION1 PFK	22.13	1.267e6					12.1	YES		bb		
5	FUNCTION1 PFK	21.44	2.260e5					6.4	YES		bb		
6	FUNCTION1 PFK	21.30	4.791e5					8.6	YES		bb		
7	FUNCTION1 PFK	23.95	3.713e7					67.7	YES		db		
8	FUNCTION1 PFK	23.73	6.440e6					75.5	YES		dd		
9	FUNCTION1 PFK	23.60	9.694e6					83.9	YES		bd		

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**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.84	1.131e5					5.3	YES		db		0.000
2	FUNCTION2 PFK	32.80	4.435e5					7.5	YES		bd		0.000
3	FUNCTION2 PFK	32.55	6.589e5					8.0	YES		bb		0.000
4	FUNCTION2 PFK	32.14	3.115e5					5.1	YES		bb		0.000
5	FUNCTION2 PFK	31.26	1.184e5					3.7	YES		bb		0.000
6	FUNCTION2 PFK	30.78	4.145e4					2.3	NO		bb		0.000
7	FUNCTION2 PFK	29.50	8.716e4					4.5	YES		bb		0.000
8	FUNCTION2 PFK	29.32	7.395e5					8.7	YES		bb		0.000
9	FUNCTION2 PFK	28.84	3.676e4					2.2	NO		bb		0.000
10	FUNCTION2 PFK	28.35	5.628e5					6.8	YES		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.90	5.424e5					15.7	YES		bb		0.000
2	FUNCTION3 PFK	37.62	1.288e5					5.7	YES		bb		0.000
3	FUNCTION3 PFK	37.48	1.380e5					5.4	YES		bb		0.000
4	FUNCTION3 PFK	37.04	6.176e5					14.6	YES		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.94	8.405e5					11.8	YES		bb		
2	FUNCTION4 PFK	39.66	4.499e5					13.4	YES		bb		
3	FUNCTION4 PFK	38.30	5.376e6					30.4	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													



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## ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.28	4.912e3					82.2	YES		bb		0.000
2	FUNCTION1 HXCD...	25.03	1.433e2					2.6	NO		bb		0.000
3	FUNCTION1 HXCD...	23.95	7.534e3					135.3	YES		bb		0.000
4	FUNCTION1 HXCD...	23.73	9.809e1					2.7	NO		bb		0.000
5	FUNCTION1 HXCD...	22.92	1.693e2					3.3	YES		bb		0.000
6	FUNCTION1 HXCD...	22.46	6.409e2					11.2	YES		bb		0.000
7	FUNCTION1 HXCD...	22.30	5.492e2					10.3	YES		bb		0.000
8	FUNCTION1 HXCD...	28.03	2.083e2					2.9	NO		bb		0.000
9	FUNCTION1 HXCD...	27.82	1.161e3					20.9	YES		bb		0.000
10	FUNCTION1 HXCD...	26.96	3.391e3					59.8	YES		bb		0.000
11	FUNCTION1 HXCD...	26.31	1.176e4					196.2	YES		bb		0.000
12	FUNCTION1 HXCD...	26.08	8.079e2					12.8	YES		db		0.000
13	FUNCTION1 HXCD...	25.93	6.991e3					117.2	YES		bd		0.000

## ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.46	1.091e2					2.5	NO		bb		0.000
2	FUNCTION1 HPCD...	24.55	1.030e2					2.9	NO		bb		0.000
3	FUNCTION1 HPCD...	23.81	8.987e1					3.0	NO		bb		0.000
4	FUNCTION1 HPCD...	23.55	3.753e3					46.7	YES		bb		0.000
5	FUNCTION1 HPCD...	22.68	1.196e2					3.6	YES		bb		0.000
6	FUNCTION1 HPCD...	22.46	6.760e2					10.2	YES		bb		0.000
7	FUNCTION1 HPCD...	22.19	3.605e2					6.5	YES		bb		0.000

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	28.43	7.834e1					2.3	NO		bb		0.000
2	FUNCTION2 HPCD...	32.37	2.735e3					33.7	YES		bb		0.000
3	FUNCTION2 HPCD...	31.30	4.726e2					5.7	YES		bb		0.000
4	FUNCTION2 HPCD...	31.02	7.696e1					1.7	NO		bb		0.000
5	FUNCTION2 HPCD...	30.64	3.163e2					3.7	YES		bb		0.000
6	FUNCTION2 HPCD...	29.26	2.627e2					3.8	YES		db		0.000
7	FUNCTION2 HPCD...	29.12	5.561e3					65.1	YES		bd		0.000

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**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.69	7.121e1					3.0	NO		db		0.000
2	FUNCTION3 OCDPE	36.62	9.389e1					2.3	NO		dd		0.000
3	FUNCTION3 OCDPE	36.61	8.935e1					2.4	NO		bd		0.000
4	FUNCTION3 OCDPE	36.24	2.342e2					3.2	YES		db		0.000
5	FUNCTION3 OCDPE	36.13	2.058e2					3.2	YES		bd		0.000
6	FUNCTION3 OCDPE	35.83	7.381e1					1.5	NO		bb		0.000
7	FUNCTION3 OCDPE	34.36	4.261e2					10.4	YES		bb		0.000
8	FUNCTION3 OCDPE	33.28	2.279e2					4.8	YES		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.70	7.647e1					2.2	NO		bb		0.000
2	FUNCTION4 NCDPE	41.39	7.863e1					2.1	NO		bb		0.000
3	FUNCTION4 NCDPE	39.94	8.515e1					2.6	NO		bb		0.000
4	FUNCTION4 NCDPE	38.53	3.223e3					53.9	YES		db		0.000
5	FUNCTION4 NCDPE	38.45	1.127e2					3.2	YES		bd		0.000
6	FUNCTION4 NCDPE	38.30	1.263e2					3.2	YES		bb		0.000

**ETHERS6**

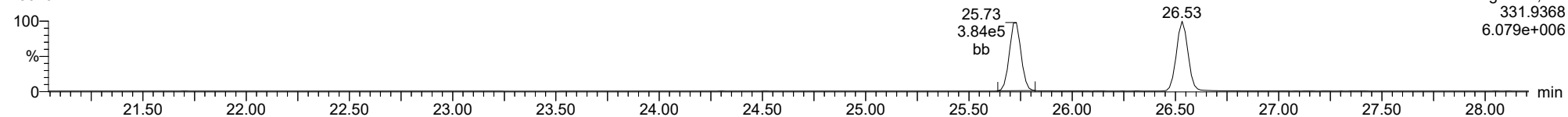
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.16	1.377e3					16.3	YES		bb		0.000

**Method:** T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
**Calibration:** T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

**ID:** 22L0246-42, **Name:** 23020127, **Date:** 02-Feb-2023, **Time:** 10:37:15, **Conditions:** AUTOSPEC01, **User:** pk

**13C-1234-TCDD**

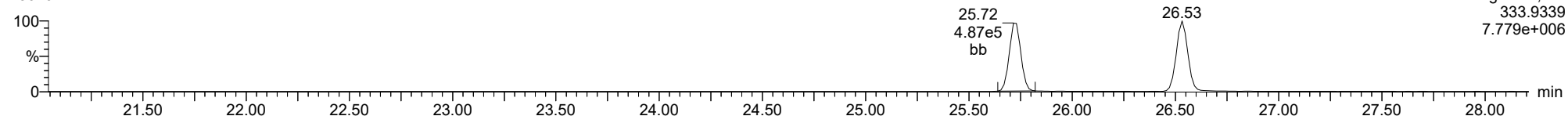
23020127



F1:Voltage SIR,El+  
331.9368  
6.079e+006

**13C-1234-TCDD**

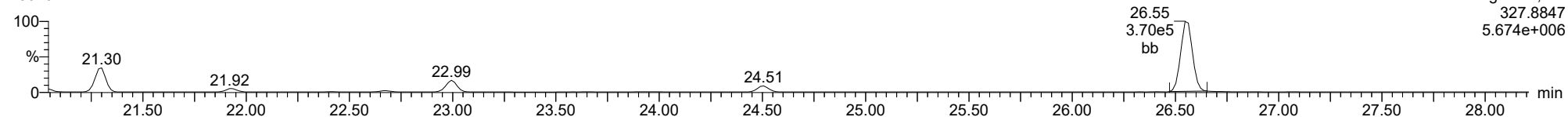
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F1:Voltage SIR,El+  
333.9339  
7.779e+006

**37CL-2378-TCDD**

23020127

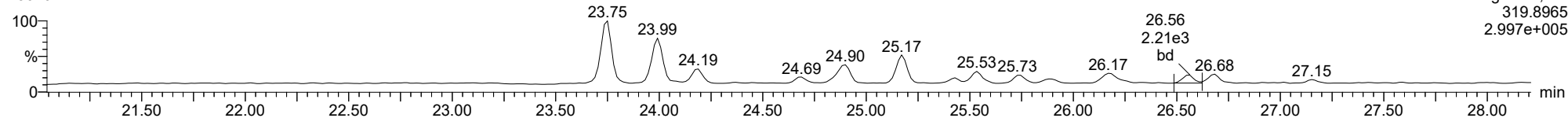


F1:Voltage SIR,El+  
327.8847  
5.674e+006

ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

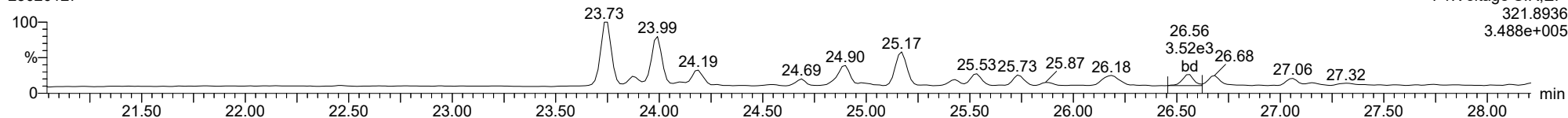
**2378-TCDD**

23020127



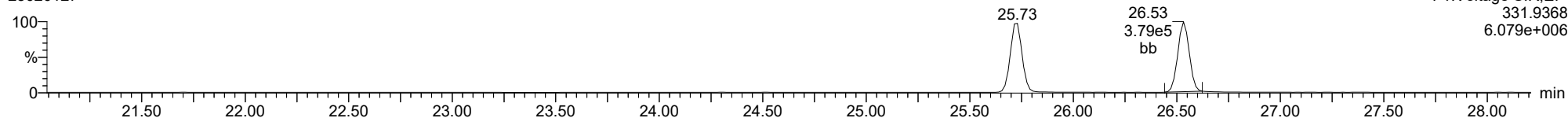
**2378-TCDD**

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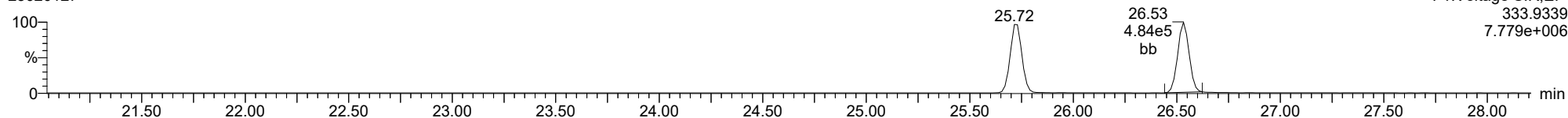
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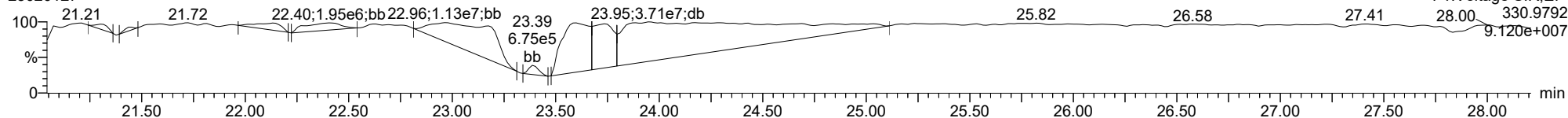
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**FUNCTION1 PFK**

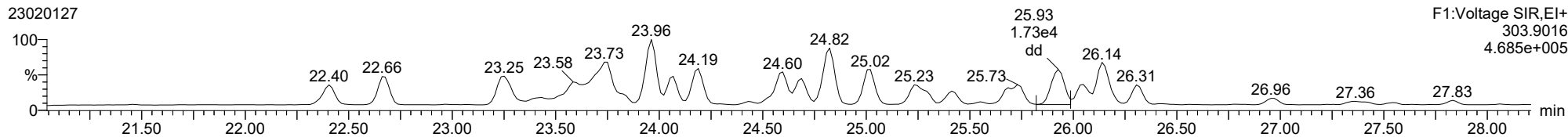
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ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

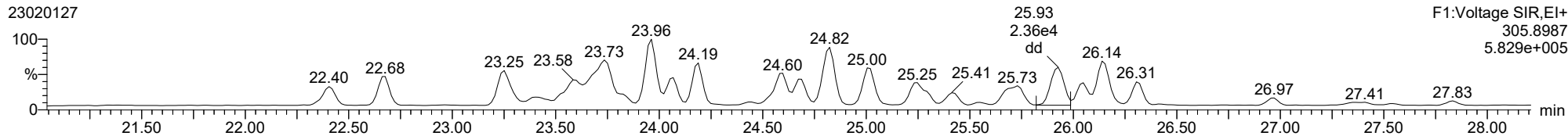
**2378-TCDF**

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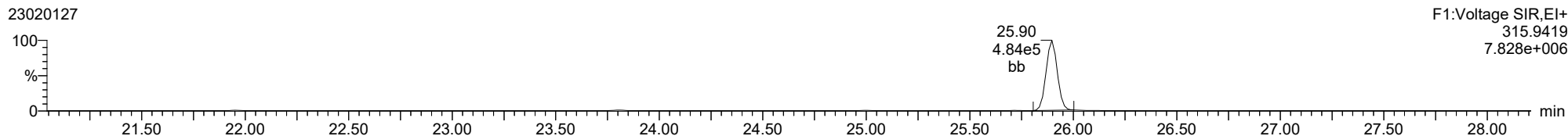
**2378-TCDF**

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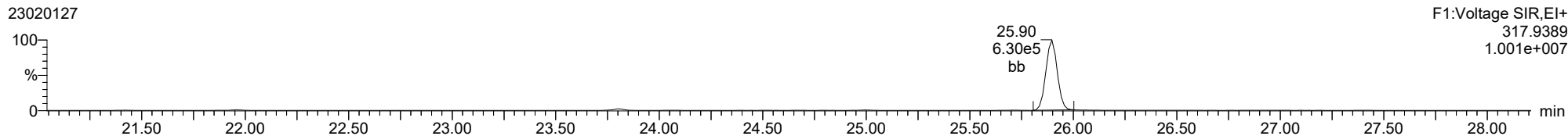
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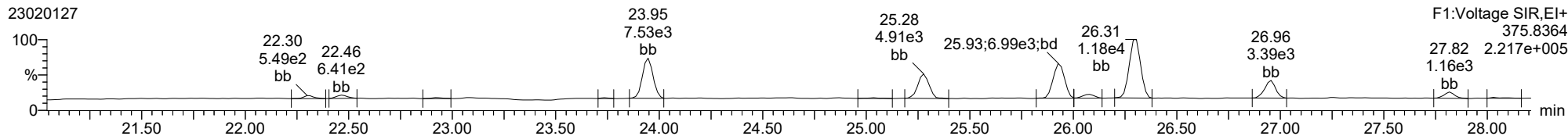
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**FUNCTION1 HXCDPE**

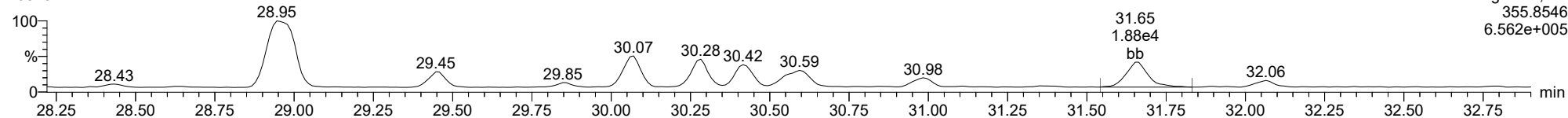
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ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

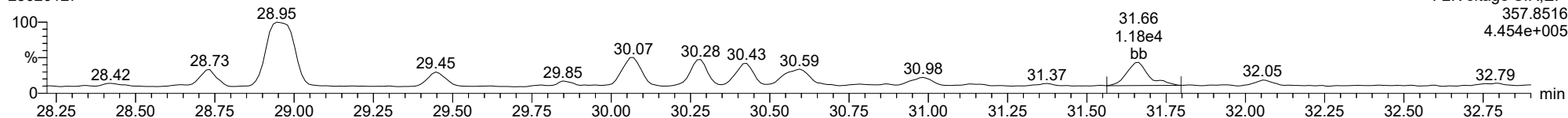
**12378-PeCDD**

23020127



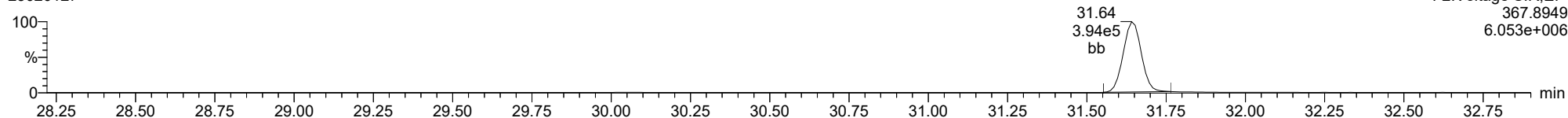
**12378-PeCDD**

23020127



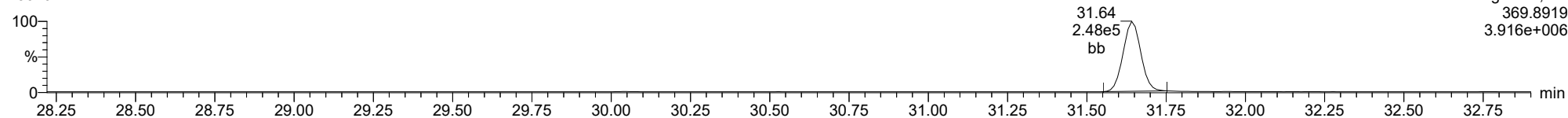
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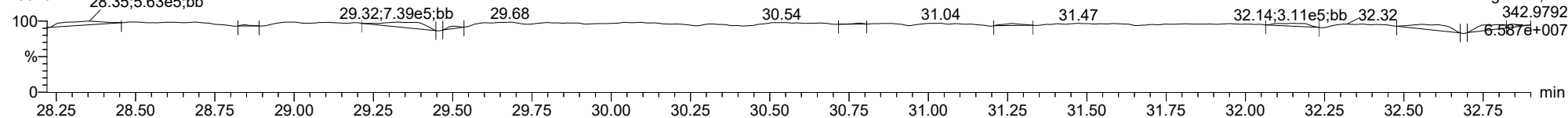
**13C-12378-PeCDD**

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**FUNCTION2 PFK**

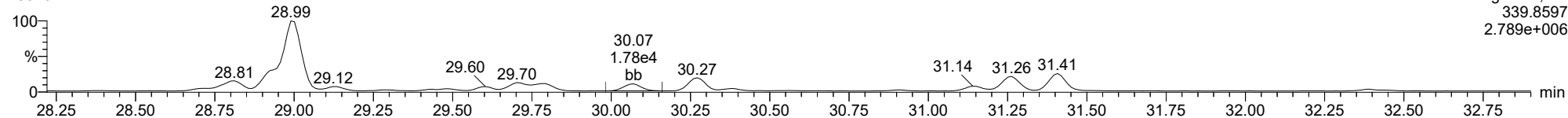
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ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

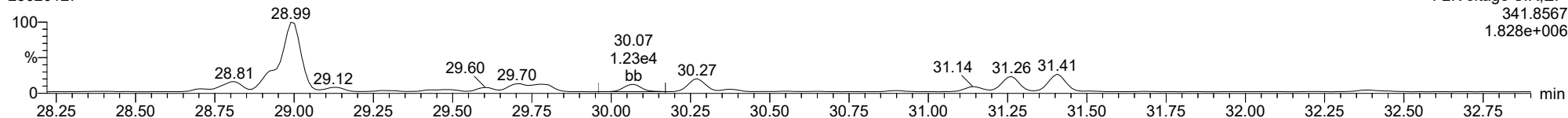
**12378-PeCDF**

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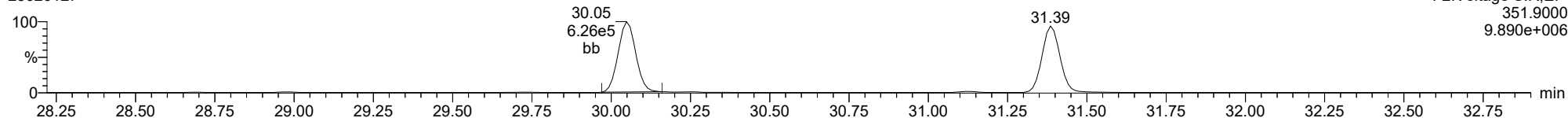
**12378-PeCDF**

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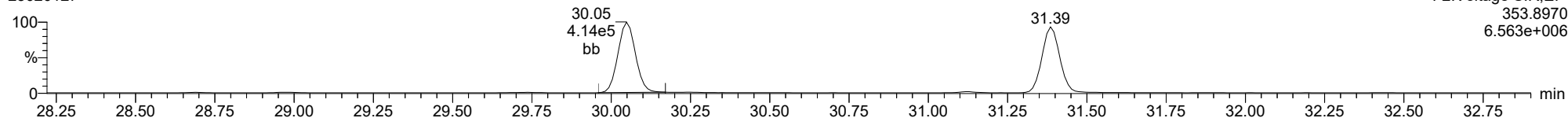
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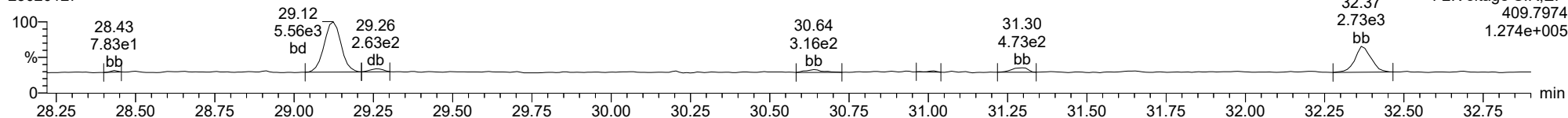
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**FUNCTION2 HPCDPE**

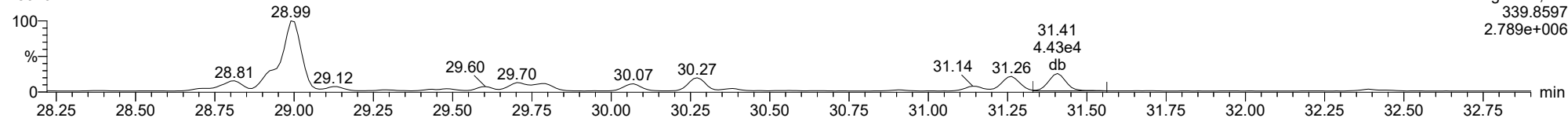
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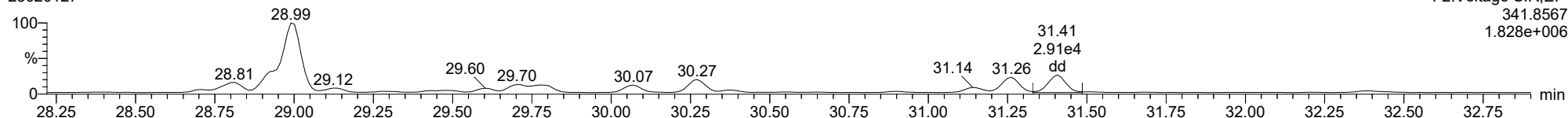
**23478-PeCDF**

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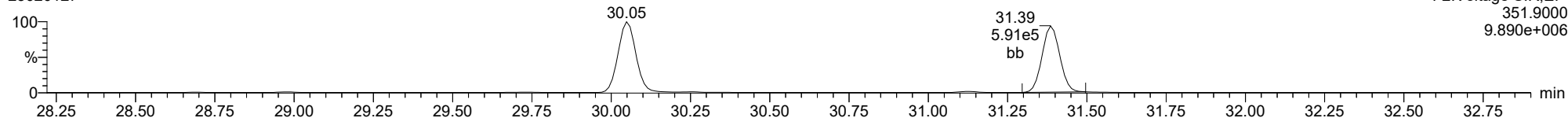
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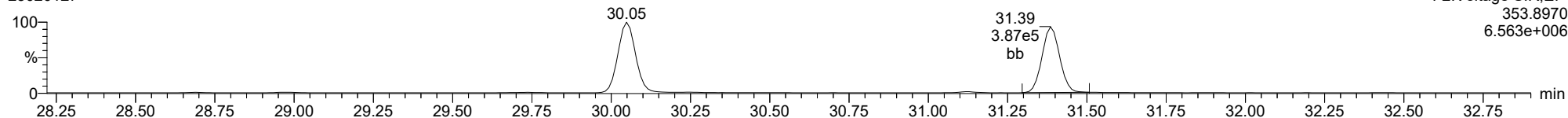
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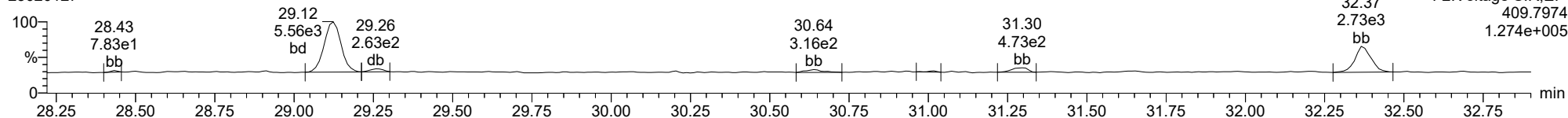
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**FUNCTION2 HPCDPE**

23020127

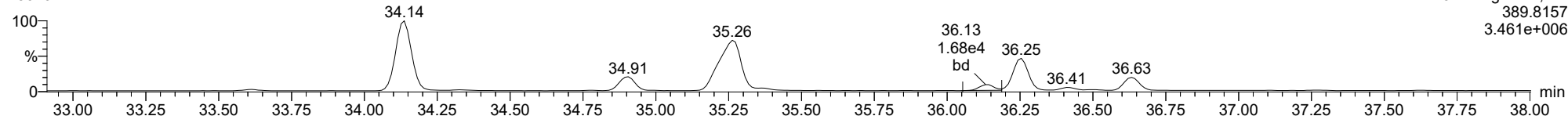




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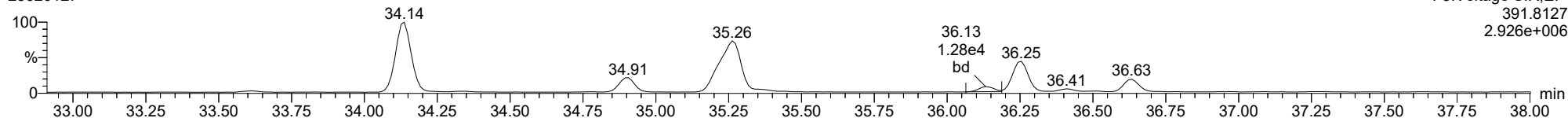
**123478-HxCDD**

23020127



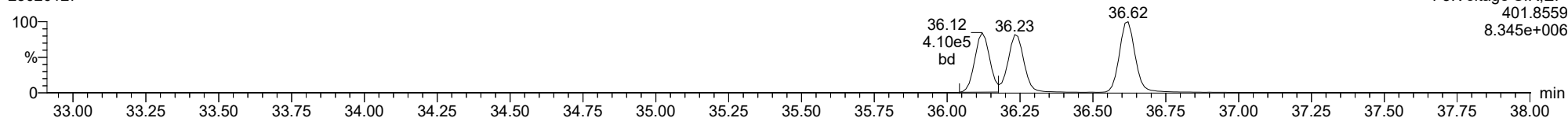
**123478-HxCDD**

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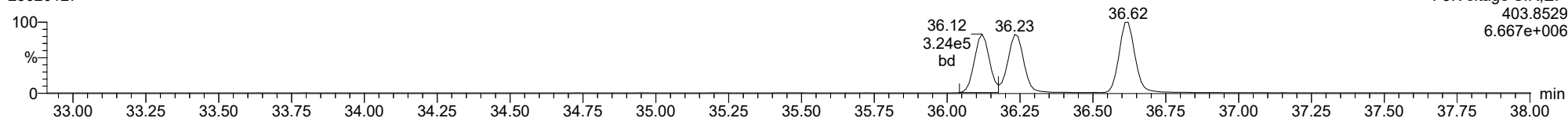
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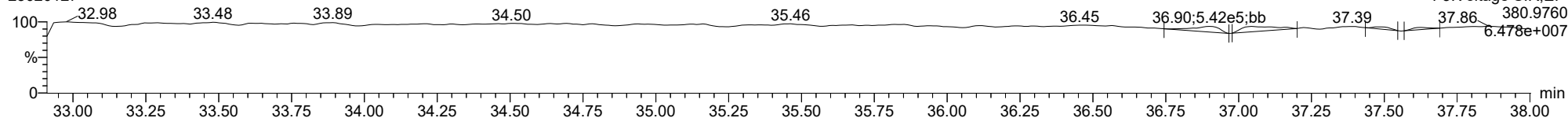
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**FUNCTION3 PFK**

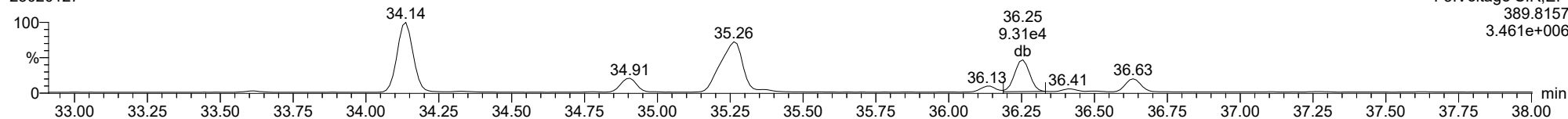
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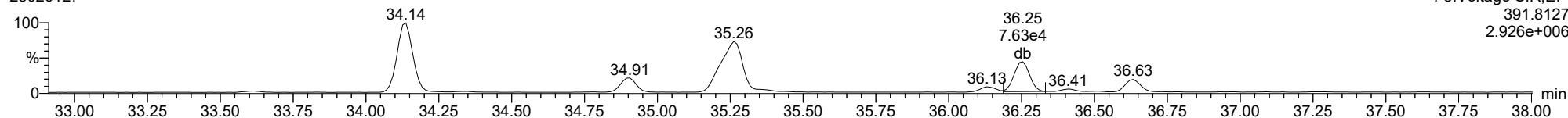
123678-HxCDD

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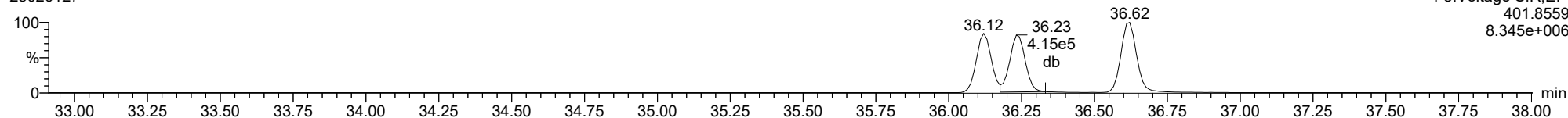
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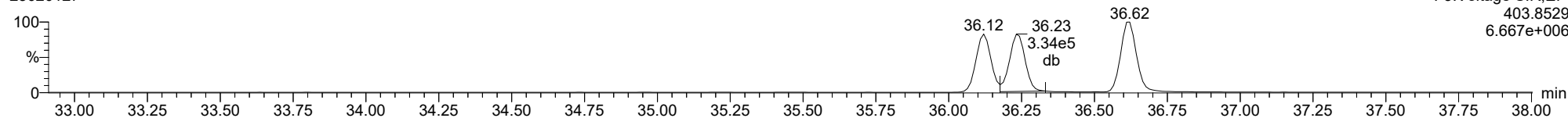
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13C-123678-HxCDD

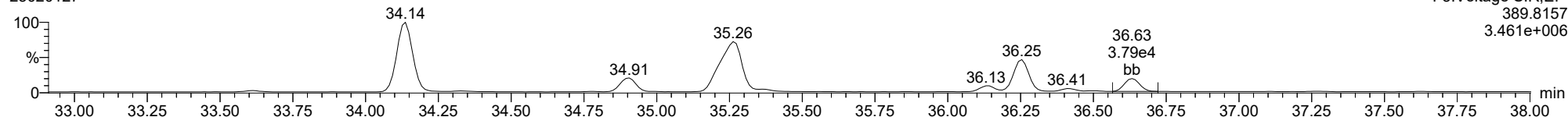
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ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

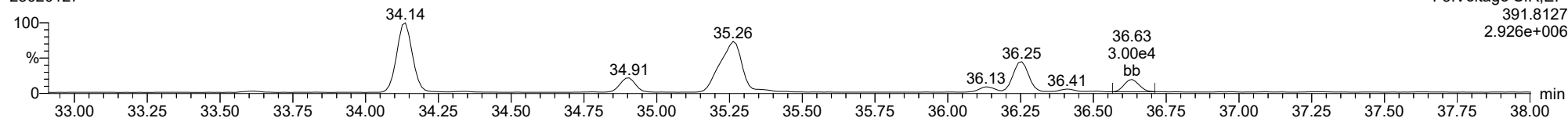
**123789-HxCDD**

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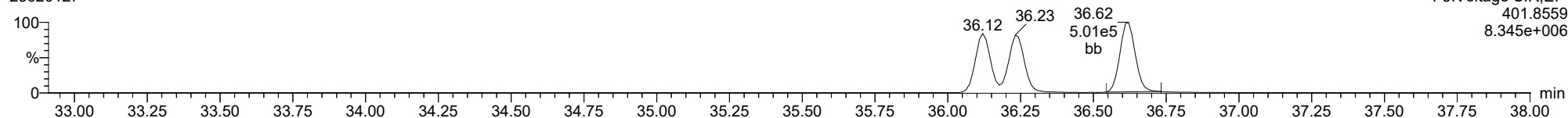
**123789-HxCDD**

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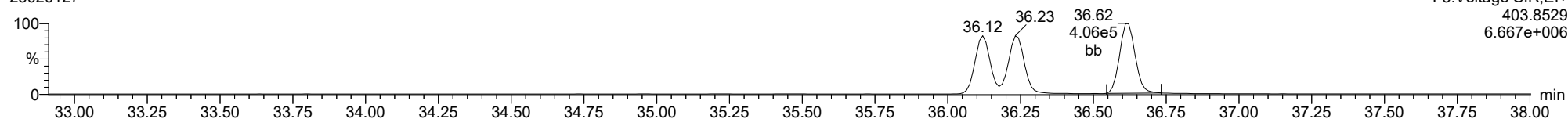
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**13C-123789-HxCDD**

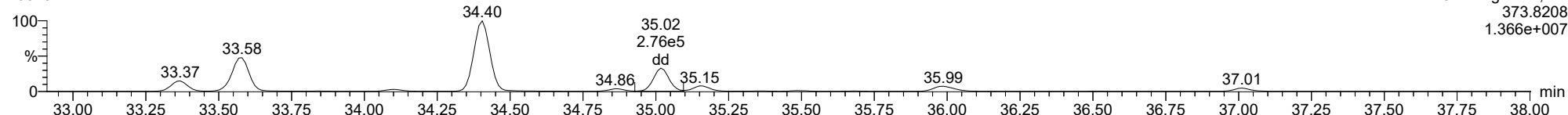
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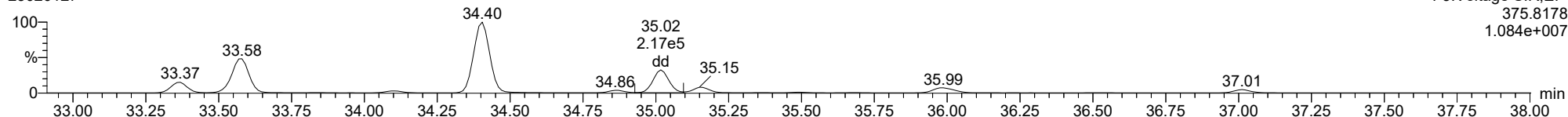
**123478-HxCDF**

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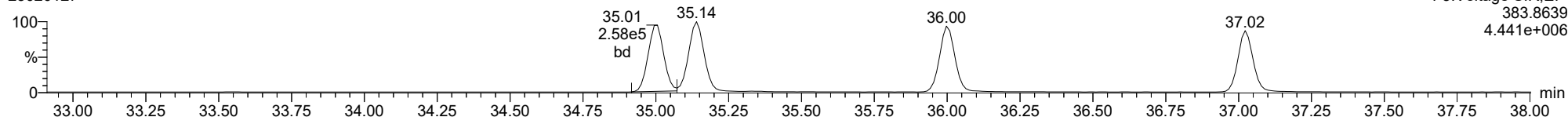
**123478-HxCDF**

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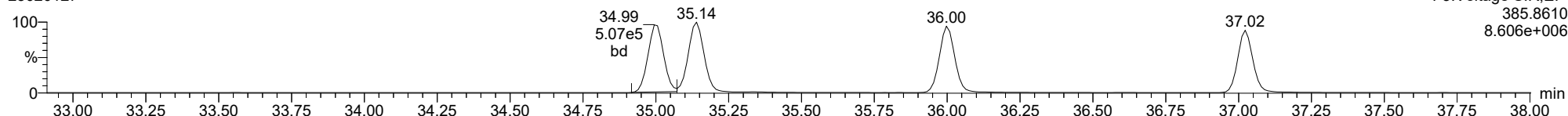
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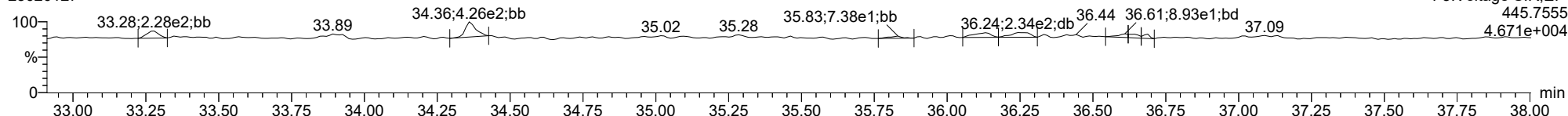
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**FUNCTION3 OCDPE**

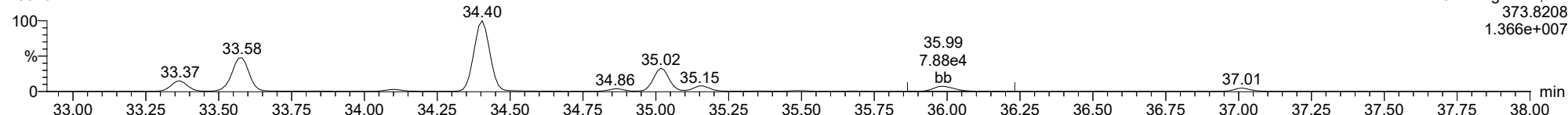
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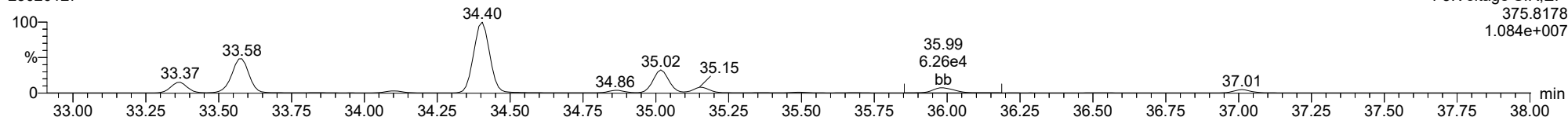
**234678-HxCDF**

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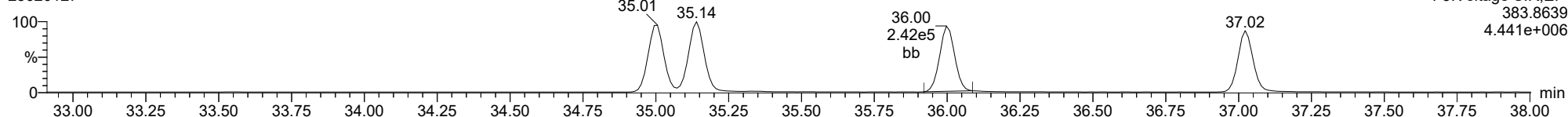
**234678-HxCDF**

23020127



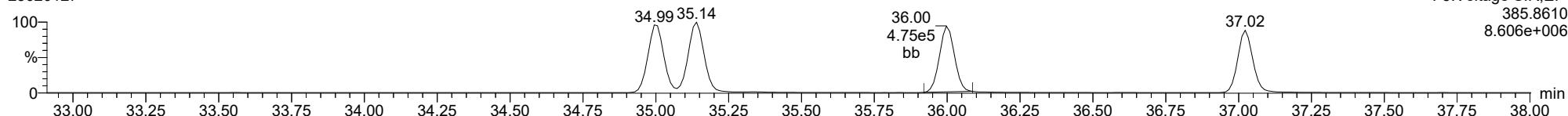
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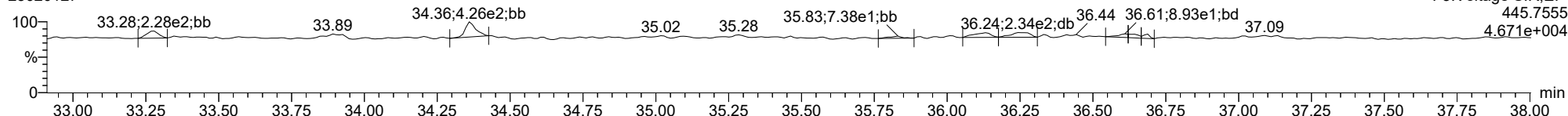
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**FUNCTION3 OCDPE**

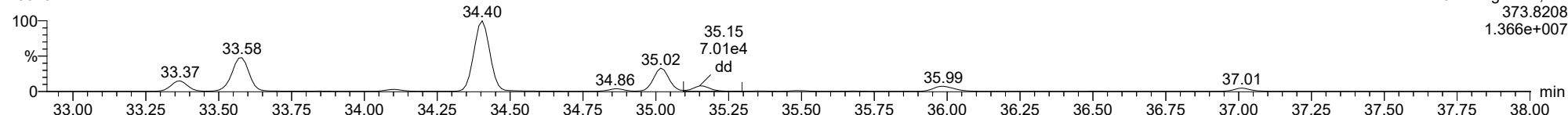
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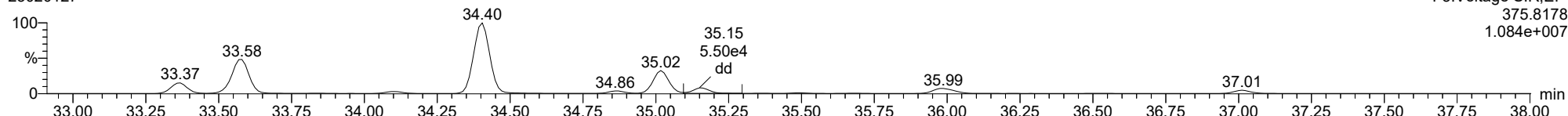
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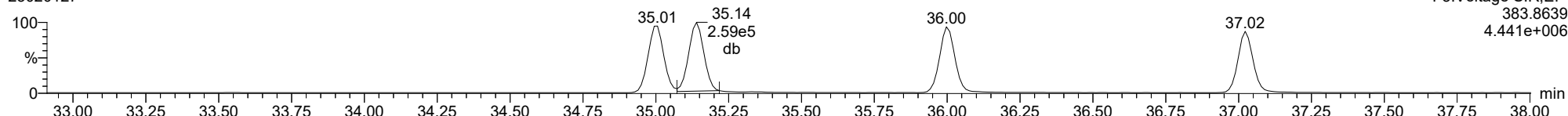
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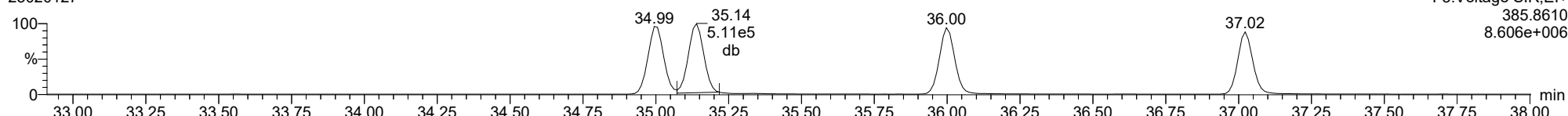
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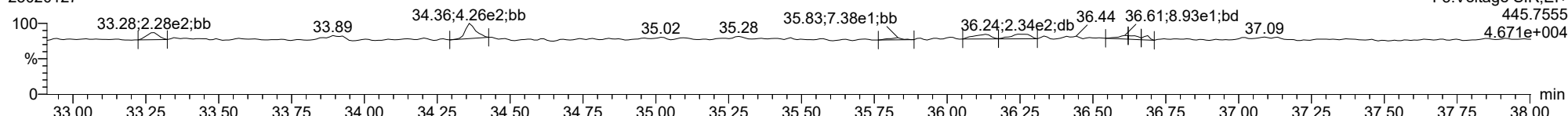
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**FUNCTION3 OCDPE**

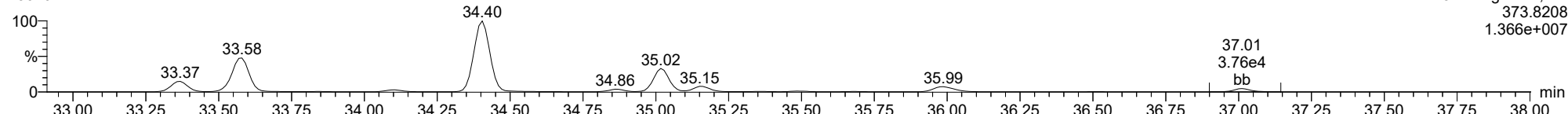
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ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

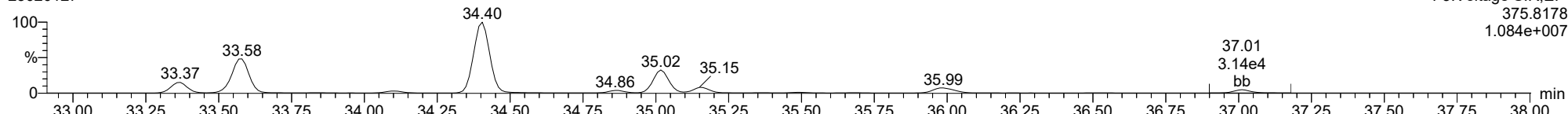
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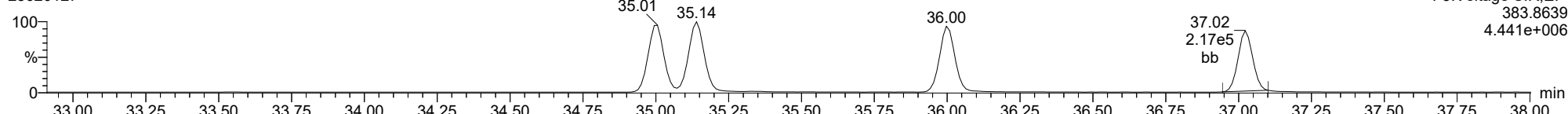
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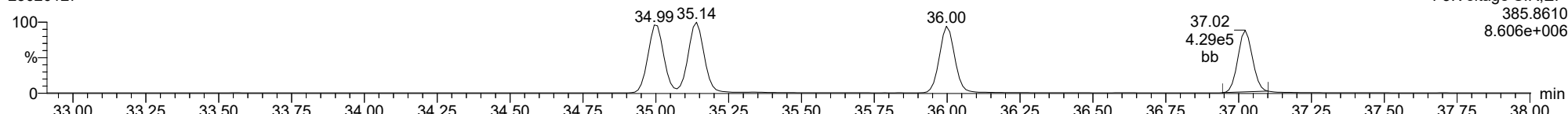
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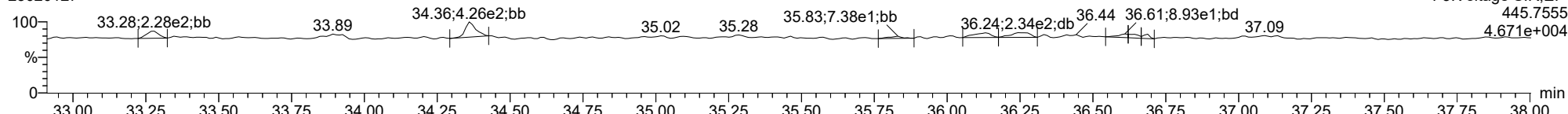
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**FUNCTION3 OCDPE**

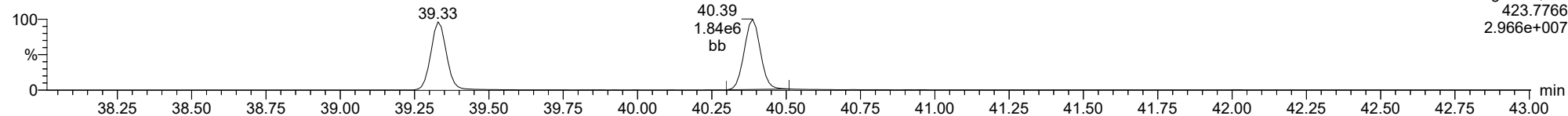
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ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

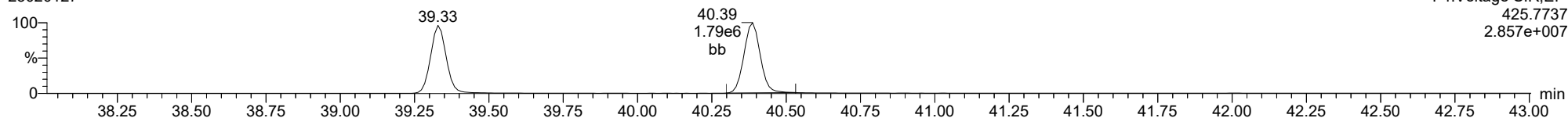
**1234678-HpCDD**

23020127



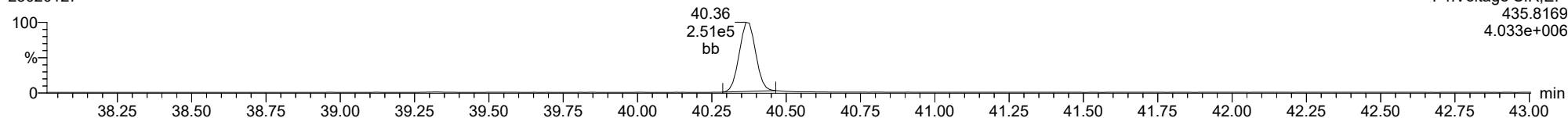
**1234678-HpCDD**

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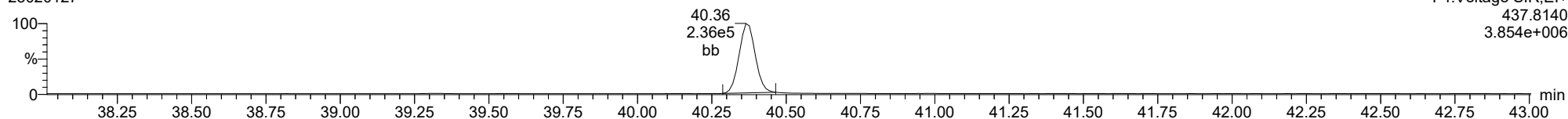
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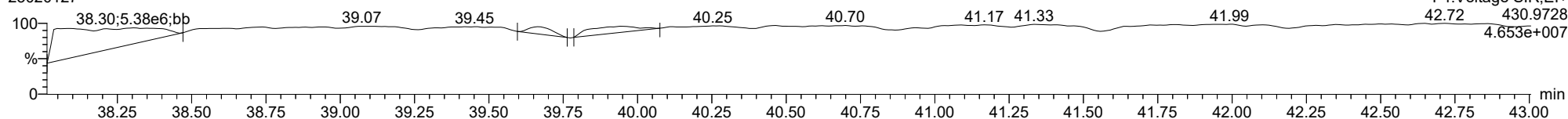
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23020127



**FUNCTION4 PFK**

23020127

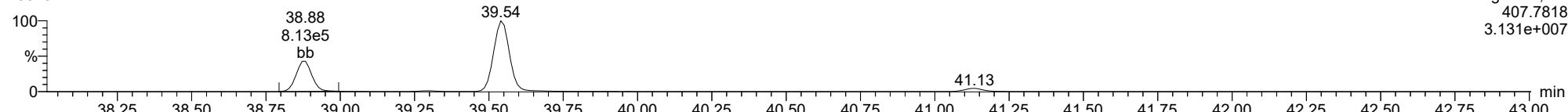




ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

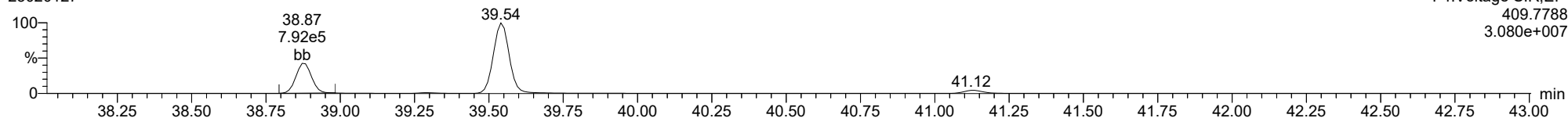
**1234678-HpCDF**

23020127



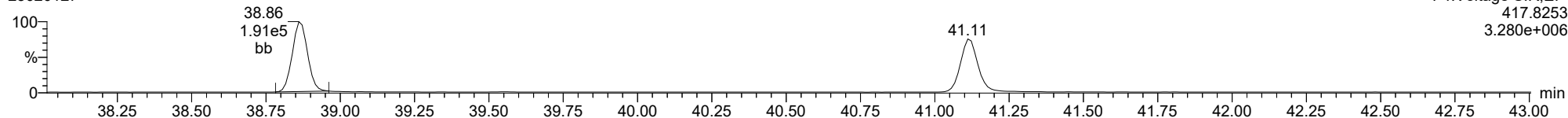
**1234678-HpCDF**

23020127



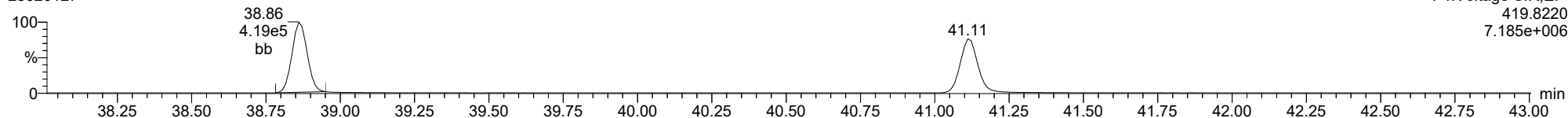
**13C-1234678-HpCDF**

23020127



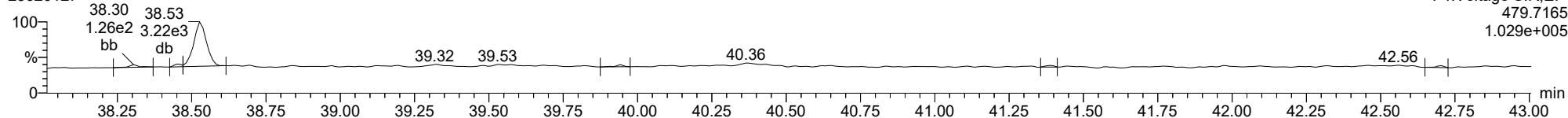
**13C-1234678-HpCDF**

23020127



**FUNCTION4 NCDPE**

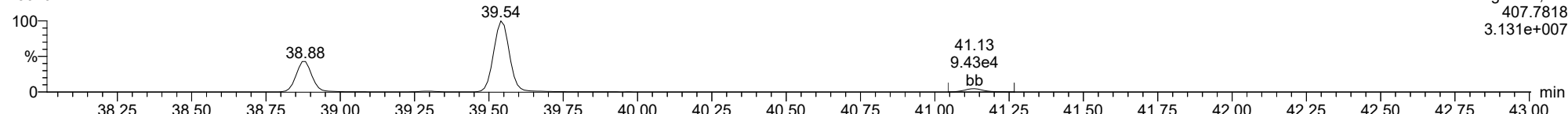
23020127



ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

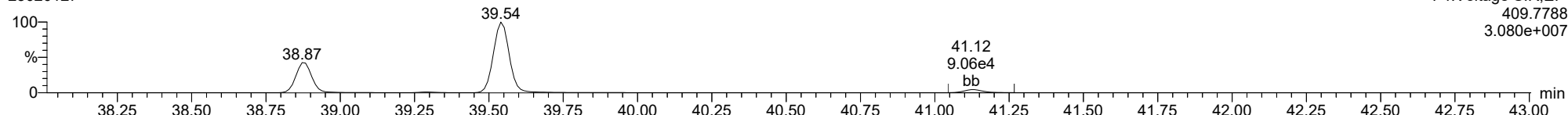
**1234789-HpCDF**

23020127



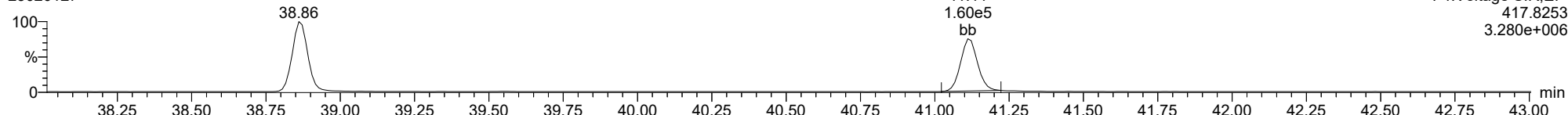
**1234789-HpCDF**

23020127



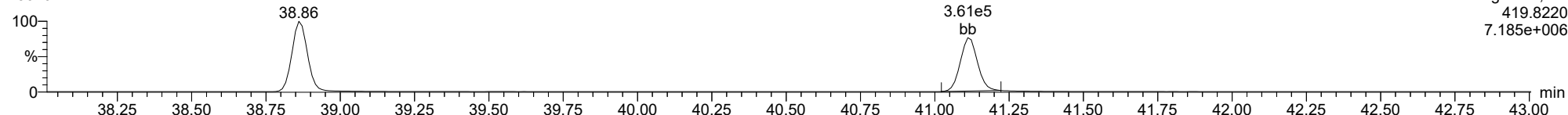
**13C-1234789-HpCDF**

23020127



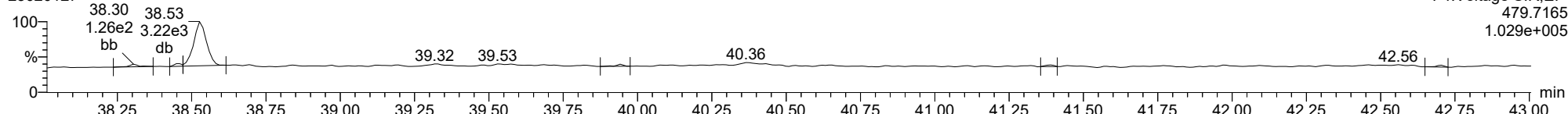
**13C-1234789-HpCDF**

23020127



**FUNCTION4 NCDPE**

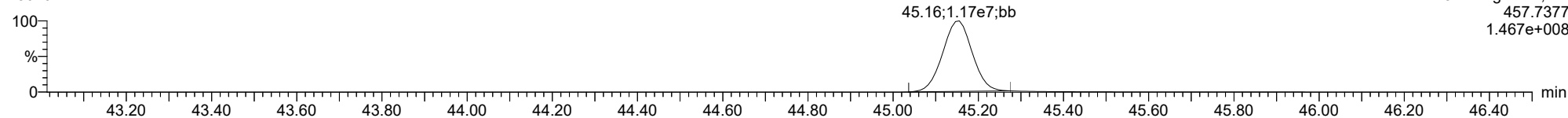
23020127



ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

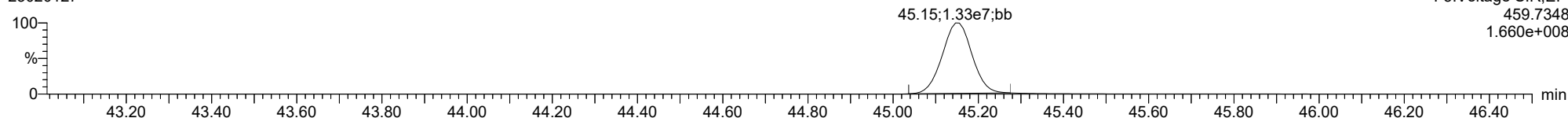
**OCDD**

23020127



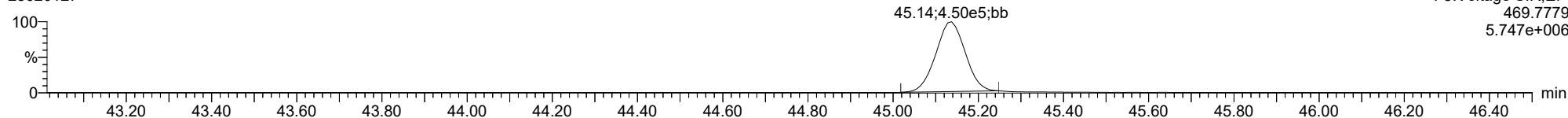
**OCDD**

23020127



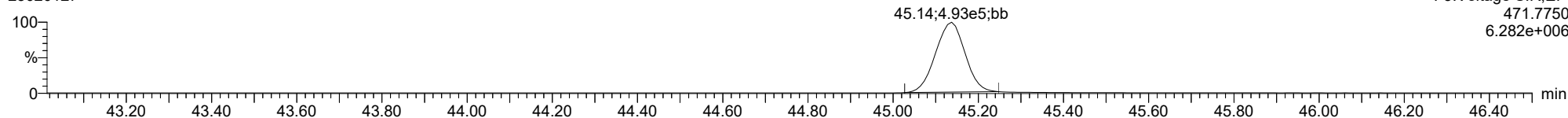
**13C-OCDD**

23020127



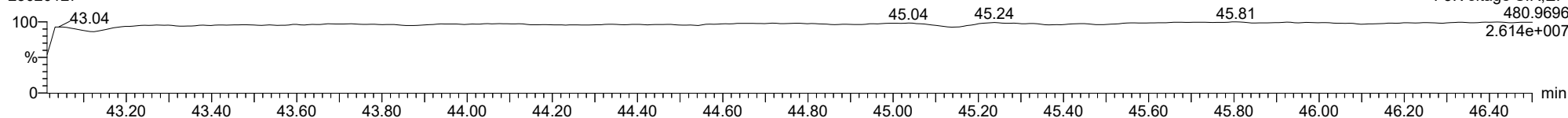
**13C-OCDD**

23020127

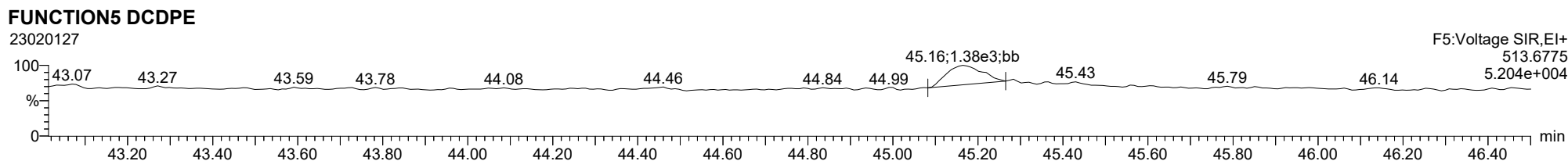
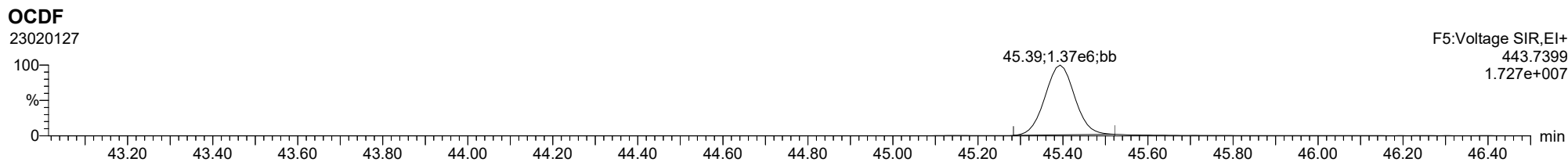
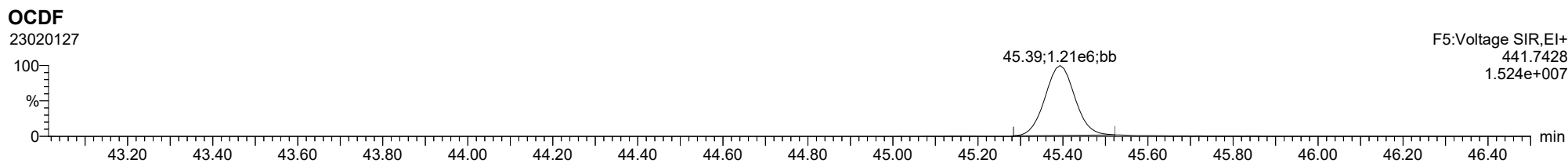


**FUNCTION5 PFK**

23020127



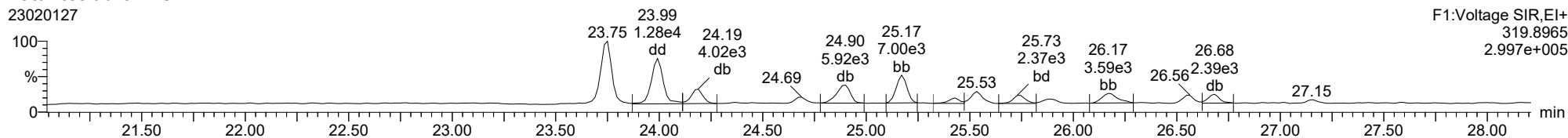
ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk



ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

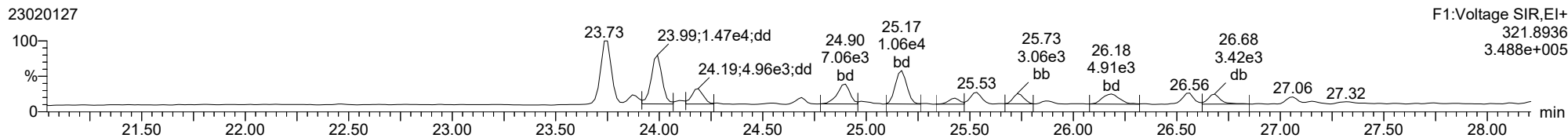
**Total-tetradoxins**

23020127



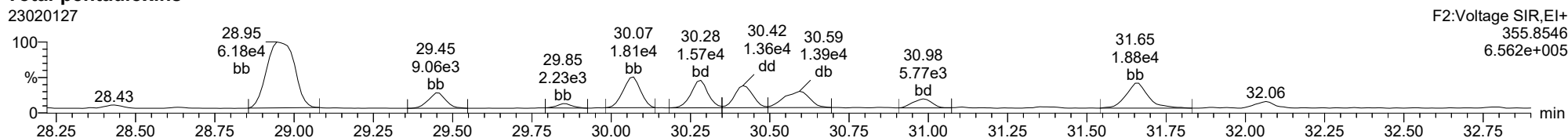
**Total-tetradoxins**

23020127



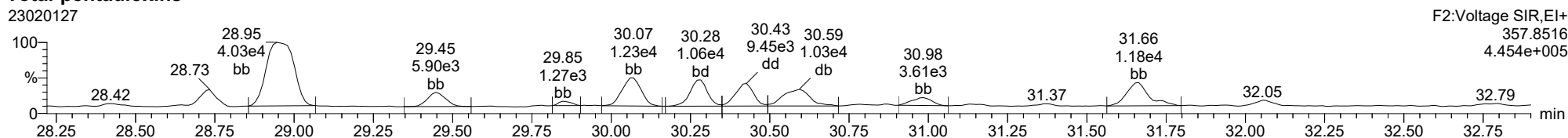
**Total-pentadoxins**

23020127



**Total-pentadoxins**

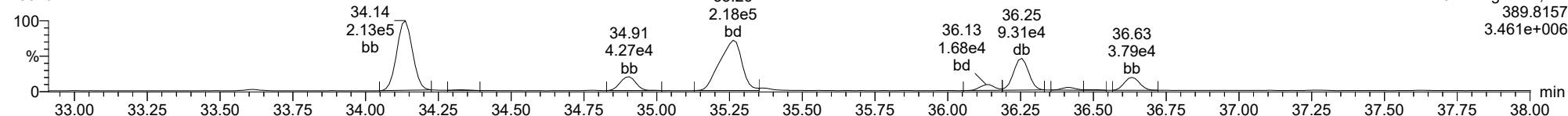
23020127



ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

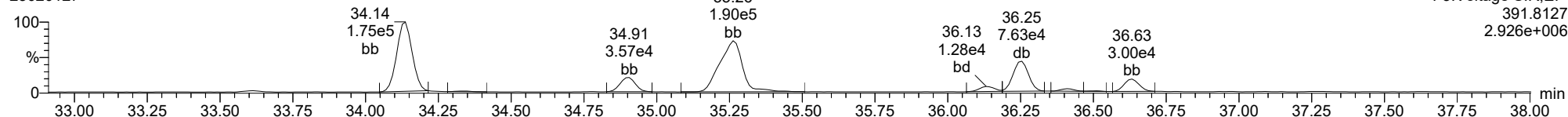
**Total-hexadioxins**

23020127



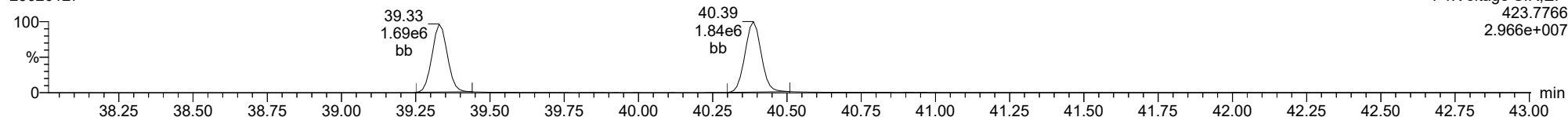
**Total-hexadioxins**

23020127



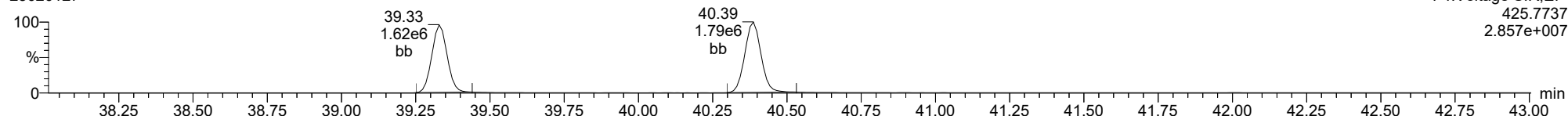
**Total-heptadioxins**

23020127



**Total-heptadioxins**

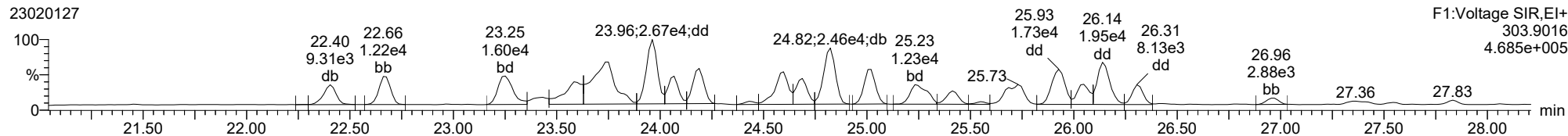
23020127



ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

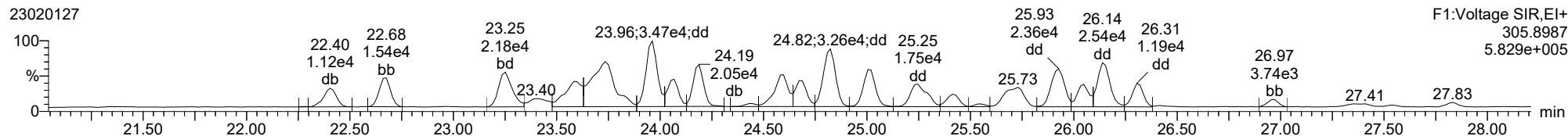
**Total-tetrafurans**

23020127



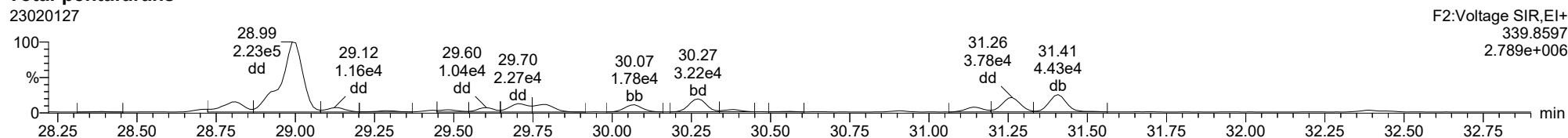
**Total-tetrafurans**

23020127



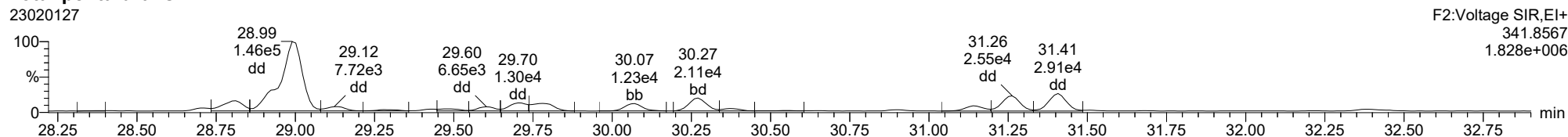
**Total-pentafurans**

23020127



**Total-pentafurans**

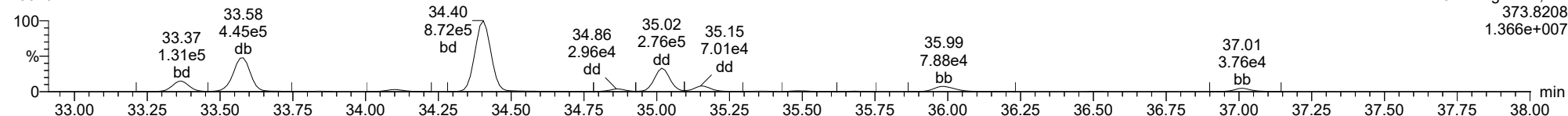
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ID: 22L0246-42, Name: 23020127, Date: 02-Feb-2023, Time: 10:37:15, Conditions: AUTOSPEC01, User: pk

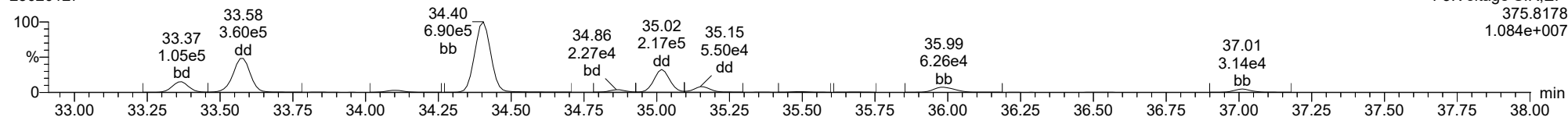
**Total-hexafurans**

23020127



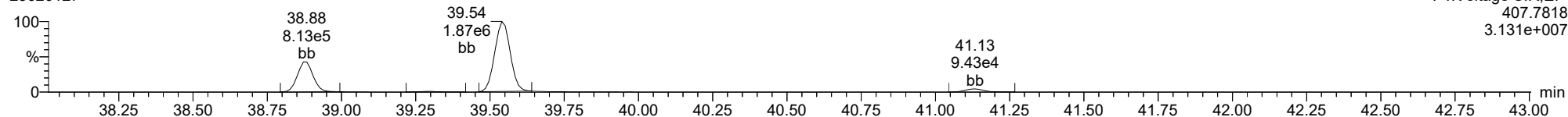
**Total-hexafurans**

23020127



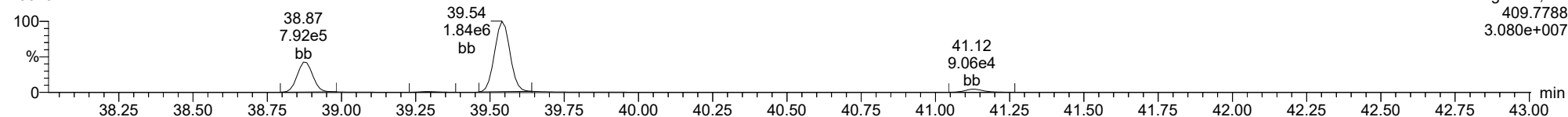
**Total-heptafurans**

23020127



**Total-heptafurans**

23020127







Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-43 A File ID: 23020128  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 11:26  
 % Solids: 61.14 Preparation: EPA 1613 Initial/Final: 16.37 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.761	0.655-0.886	0.150	0.999	5.75	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.599	0.655-0.886	0.119	0.999	0.368	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.548	1.318-1.783	0.228	0.999	1.31	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.522	1.318-1.783	0.220	0.999	2.10	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	2.148	1.318-1.783	0.229	0.999	1.34	ng/kg	EMPC
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.305	1.054-1.426	0.107	0.999	2.69	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.271	1.054-1.426	0.101	0.999	2.66	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.313	1.054-1.426	0.107	0.999	4.38	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.134	1.054-1.426	0.117	0.999	0.881	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.191	1.054-1.426	0.228	0.999	0.676	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.077	1.054-1.426	0.226	0.999	2.52	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.093	1.054-1.426	0.231	0.999	1.65	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.023	0.893-1.208	0.150	0.999	94.2	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.135	0.893-1.208	0.203	0.999	1.70	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.035	0.893-1.208	0.246	2.50	31.7	ng/kg	B
39001-02-0	OCDF	1	0.911	0.757-1.024	0.242	2.50	41.9	ng/kg	B
3268-87-9	OCDD	1	0.874	0.757-1.024	0.286	9.99	192	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	71.9	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	12.6	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	91.8	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	12.0	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	90.9	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	33.2	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	169	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	66.9	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 5.84  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 5.84



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-43</u>
Sampled:	<u>12/09/22 11:44</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>61.14</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020128</u>
		Analyzed:	<u>02/02/23 11:26</u>
		Initial/Final:	<u>16.37 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.769	0.655-0.886	0.168	72.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.789	0.655-0.886	0.138	88.9	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.547	1.318-1.783	0.130	79.0	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.554	1.318-1.783	0.135	77.5	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.620	1.318-1.783	0.190	82.2	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.508	0.434-0.587	0.146	79.1	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.505	0.434-0.587	0.142	78.1	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.511	0.434-0.587	0.151	76.9	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.500	0.434-0.587	0.165	78.1	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.268	1.054-1.426	0.171	84.3	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.263	1.054-1.426	0.166	82.8	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.451	0.374-0.506	0.137	66.2	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.455	0.374-0.506	0.157	65.7	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.063	0.893-1.208	0.214	71.6	23 - 140 %	
13C12-OCDD		0.924	0.757-1.024	0.160	69.7	17 - 157 %	
37Cl4-2,3,7,8-TCDD		328.000		0.047	83.4	35 - 197 %	

\* Values outside of QC limits

**Quantify Sample Summary Report      MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:38 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33

Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.927	1.002	1.200e4	1.578e4	0.876	0.761	0.770	2037	1802	1.57e5	2.13e5	76.9	118.5	NO	bd	bd	2.877
12378-PeCDF	30.049	1.000	3.487e3	2.252e3	0.845	1.548	1.550	2488	2772	5.12e4	3.44e4	20.6	12.4	NO	bb	bb	0.654
23478-PeCDF	31.397	1.001	5.662e3	3.719e3	0.911	1.522	1.550	2488	2772	8.99e4	5.59e4	36.1	20.2	NO	db	dd	1.052
123478-HxCDF	35.006	1.001	7.195e3	5.512e3	1.182	1.305	1.240	1478	1306	1.19e5	9.30e4	80.8	71.3	NO	dd	bd	1.348
234678-HxCDF	35.975	1.000	1.139e4	8.680e3	1.229	1.313	1.240	1478	1306	1.35e5	1.03e5	91.6	79.1	NO	bd	bb	2.190
123678-HxCDF	35.151	1.001	7.513e3	5.909e3	1.248	1.271	1.240	1478	1306	1.14e5	9.07e4	77.5	69.5	NO	db	db	1.333
123789-HxCDF	37.012	1.000	1.926e3	1.699e3	1.187	1.134	1.240	1478	1306	3.22e4	2.32e4	21.8	17.8	NO	bb	bb	0.441
1234678-HpCDF	38.861	1.000	1.885e5	1.843e5	1.204	1.023	1.050	1678	1783	3.14e6	3.13e6	1870.2	1756.9	NO	bb	bb	47.159
1234789-HpCDF	41.112	1.000	2.997e3	2.640e3	1.165	1.135	1.050	1678	1783	4.39e4	4.04e4	26.2	22.6	NO	bb	bb	0.850
OCDF	45.376	1.006	6.230e4	6.837e4	1.186	0.911	0.890	1084	1930	7.60e5	8.17e5	700.5	423.2	NO	bb	bb	20.968
2378-TCDD	26.532	1.001	7.200e2	1.202e3	1.236	0.599	0.770	1916	1317	9.14e3	1.82e4	4.8	13.8	YES	bd	bd	0.184
12378-PeCDD	31.653	1.001	3.211e3	1.495e3	1.087	2.148	1.550	1606	2622	4.30e4	2.35e4	26.8	9.0	YES	bb	bb	0.669
123478-HxCDD	36.120	1.000	1.365e3	1.146e3	0.987	1.191	1.240	2230	2574	2.41e4	1.92e4	10.8	7.5	NO	bd	bd	0.338
123678-HxCDD	36.232	1.000	5.106e3	4.739e3	1.021	1.077	1.240	2230	2574	9.05e4	7.19e4	40.6	27.9	NO	db	dd	1.262
123789-HxCDD	36.622	1.011	3.219e3	2.946e3	0.985	1.093	1.240	2230	2574	5.96e4	4.10e4	26.7	15.9	NO	bb	bb	0.825
1234678-HpCDD	40.376	1.001	5.410e4	5.225e4	1.253	1.035	1.050	2553	1827	8.12e5	8.20e5	318.2	448.9	NO	bb	bb	15.839
OCDD	45.138	1.000	2.599e5	2.973e5	1.103	0.874	0.890	1567	1740	3.20e6	3.68e6	2041.4	2116.7	NO	bb	bb	96.193
13C-2378-TCDF	25.882	1.006	4.792e5	6.228e5	1.768	0.769	0.770	4097	2597	7.61e6	9.88e6	1857.5	3805.4	NO	bb	bb	72.361
13C-12378-PeCDF	30.038	1.168	6.312e5	4.080e5	1.527	1.547	1.550	1985	2471	9.93e6	6.46e6	5001.4	2613.1	NO	bb	bb	79.006
13C-23478-PeCDF	31.374	1.220	5.952e5	3.831e5	1.466	1.554	1.550	1985	2471	9.55e6	6.15e6	4812.0	2490.6	NO	bb	bb	77.467
13C-123478-HxCDF	34.984	0.956	2.686e5	5.289e5	1.054	0.508	0.510	1906	2247	4.43e6	8.77e6	2324.2	3901.3	NO	bd	bd	79.113
13C-123678-HxCDF	35.129	0.960	2.706e5	5.360e5	1.080	0.505	0.510	1906	2247	4.43e6	8.74e6	2322.6	3889.9	NO	db	db	78.058
13C-234678-HxCDF	35.987	0.983	2.523e5	4.936e5	1.014	0.511	0.510	1906	2247	4.29e6	8.36e6	2251.0	3722.8	NO	bb	bb	76.865
13C-123789-HxCDF	37.012	1.011	2.311e5	4.620e5	0.928	0.500	0.510	1906	2247	4.00e6	8.13e6	2100.6	3618.7	NO	bb	bb	78.069
13C-1234678-HpCDF	38.850	1.061	2.040e5	4.525e5	1.036	0.451	0.440	1666	2176	3.58e6	7.83e6	2147.6	3599.4	NO	bb	bb	66.220
13C-1234789-HpCDF	41.101	1.123	1.780e5	3.912e5	0.905	0.455	0.440	1666	2176	2.74e6	6.04e6	1645.0	2777.3	NO	bb	bb	65.743
13C-1234-TCDD	25.715	0.000	3.824e5	4.790e5	1.000	0.798	0.770	2148	1283	6.00e6	7.47e6	2790.7	5827.3	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.031	3.723e5	4.720e5	1.103	0.789	0.770	2148	1283	5.81e6	7.38e6	2703.8	5751.4	NO	bb	bb	88.878
13C-12378-PeCDD	31.631	1.230	4.003e5	2.471e5	0.914	1.620	1.550	2317	1599	6.29e6	3.87e6	2713.0	2420.9	NO	bb	bb	82.213
13C-123478-HxCDD	36.109	0.986	4.208e5	3.317e5	0.933	1.268	1.240	2242	2088	7.15e6	5.67e6	3187.8	2716.1	NO	bd	bd	84.313
13C-123678-HxCDD	36.221	0.989	4.266e5	3.378e5	0.965	1.263	1.240	2242	2088	6.97e6	5.55e6	3107.1	2657.7	NO	db	db	82.819
13C-1234678-HpCDD	40.354	1.102	2.762e5	2.598e5	0.782	1.063	1.050	2359	2170	4.39e6	4.11e6	1862.4	1893.9	NO	bb	bb	71.649
13C-OCDD	45.120	1.232	5.046e5	5.461e5	0.788	0.924	0.890	1534	1878	6.05e6	6.67e6	3943.2	3550.1	NO	bb	bb	139.315
13C-123789-HxCDD	36.611	0.000	5.337e5	4.231e5	1.000	1.261	1.240	2242	2088	9.05e6	7.11e6	4038.5	3405.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.547	1.032	3.546e5		1.233			1319		5.43e6		4116.8			bb		33.373

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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.404	0.866	5.498e3	7.721e3	1.064	0.712	0.770	2037	1802	7.01e4	1.02e5	34.4	56.5	NO	bb	dd	1.127
1289-TCDF	27.348	1.057	1.473e3	2.146e3	0.858	0.687	0.770	2037	1802	1.37e4	2.08e4	6.7	11.5	NO	bb	bb	0.383
13468-PECDF					1.013		1.550	1409	1608								
12389-PECDF					0.844		1.550	2488	2772								
123468-HXCDF	33.346	0.953	2.276e4	1.874e4	1.197	1.214	1.240	1478	1306	3.52e5	2.78e5	238.0	212.8	NO	bd	bd	4.345
1368-TCDD	23.674	0.893	9.723e3	1.195e4	1.084	0.814	0.770	1916	1317	1.65e5	1.96e5	86.3	148.6	NO	bb	bb	2.367
1289-TCDD					0.975		0.770	1916	1317								
12479-PECDD	28.968	0.916	1.532e4	1.012e4	1.837	1.513	1.550	1606	2622	1.65e5	1.03e5	102.9	39.4	NO	bb	bb	2.139
12389-PECDD	32.043	1.013	1.158e3	6.591e2	1.252	1.757	1.550	1606	2622	1.95e4	1.02e4	12.1	3.9	NO	bb	bb	0.224
124679-HXCDD	34.126	0.945	1.759e4	1.463e4	1.033	1.202	1.240	2230	2574	2.90e5	2.36e5	129.8	91.8	NO	bb	bb	4.145
1234679-HPCDD	39.318	0.974	6.115e4	6.038e4	1.286	1.013	1.050	2553	1827	1.04e6	1.04e6	406.9	569.7	NO	bb	bb	17.628
Total-tetrafurans			1.579e5		0.933			2037		2.21e6							35.966
Total-penta1			1.274e5					1409		1.91e6							22.290
Total-pentafurans			1.237e5		0.866			2488		1.94e6							23.647
Total-hexafurans			2.336e5		1.208			1478		3.59e6							45.489
Total-heptafurans			3.253e5		1.185			1678		5.38e6							84.652
Total-Furans			1.032e6		1.067			2037		1.58e7							233.483
Total-tetradoxins			2.608e4		1.099			1916		3.97e5							6.315
Total-pentadoxins			3.602e4		1.392			1606		4.84e5							6.013
Total-hexadoxins			7.040e4		1.007			2230		1.04e6							16.636
Total-heptadoxins			1.152e5		1.269			2553		1.85e6							33.467
Total-Dioxins			5.077e5		1.165			1916		6.97e6							158.625
Total-TEQ			1.540e6					1916		2.28e7							392.107
FUNCTION1 PFK			3.292e7					755495		1.04e8							
FUNCTION2 PFK			8.018e6					589415		2.51e7							0.000
FUNCTION3 PFK			1.954e6					440232		1.10e7							0.000
FUNCTION4 PFK			5.881e5					275435		5.59e6							
FUNCTION5 PFK			0.000e0					153436		0.00e0							
FUNCTION1 HXCD...			5.278e4					829		8.51e5							0.000
FUNCTION1 HPCD...			7.143e2					1036		1.34e4							0.000
FUNCTION2 HPCD...			7.337e3					1269		1.17e5							0.000
FUNCTION3 OCDPE			1.044e3					1154		2.01e4							0.000
FUNCTION4 NCDPE			7.891e3					1228		1.36e5							0.000
FUNCTION5 DCDPE			5.973e2					1124		1.50e4							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

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**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.81	1.561e4	2.292e4	0.933	0.68	0.77	115.8	YES	NO	db	dd	3.749
2	Total-tetrafurans	24.66	3.401e3	4.966e3	0.933	0.68	0.77	21.4	YES	NO	dd	dd	0.814
3	Total-tetrafurans	24.14	4.293e3	6.082e3	0.933	0.71	0.77	34.4	YES	NO	db	db	1.009
4	Total-tetrafurans	23.92	2.747e4	3.751e4	0.933	0.73	0.77	150.6	YES	NO	dd	bd	6.322
5	Total-tetrafurans	23.73	2.080e3	2.898e3	0.933	0.72	0.77	20.2	YES	NO	dd	db	0.484
6	Total-tetrafurans	23.64	1.310e4	1.594e4	0.933	0.82	0.77	98.8	YES	NO	dd	dd	2.826
7	Total-tetrafurans	23.55	5.213e3	6.846e3	0.933	0.76	0.77	35.4	YES	NO	dd	dd	1.173
8	Total-tetrafurans	23.24	2.541e4	3.193e4	0.933	0.80	0.77	191.1	YES	NO	bd	bd	5.579
9	Total-tetrafurans	22.66	6.511e3	7.877e3	0.933	0.83	0.77	53.8	YES	NO	bb	dd	1.400
10	1368-TCDF	22.40	5.498e3	7.721e3	1.064	0.71	0.77	34.4	YES	NO	bb	dd	1.127
11	1289-TCDF	27.35	1.473e3	2.146e3	0.858	0.69	0.77	6.7	YES	NO	bb	bb	0.383
12	Total-tetrafurans	26.96	3.291e3	4.481e3	0.933	0.73	0.77	27.6	YES	NO	bb	bb	0.756
13	Total-tetrafurans	26.31	1.119e4	1.522e4	0.933	0.74	0.77	85.5	YES	NO	dd	db	2.570
14	Total-tetrafurans	26.14	5.399e3	7.858e3	0.933	0.69	0.77	35.3	YES	NO	dd	dd	1.290
15	2378-TCDF	25.93	1.200e4	1.578e4	0.876	0.76	0.77	76.9	YES	NO	bd	bd	2.877
16	Total-tetrafurans	25.28	1.002e4	1.261e4	0.933	0.80	0.77	56.6	YES	NO	bd	dd	2.202
17	Total-tetrafurans	24.99	5.901e3	8.542e3	0.933	0.69	0.77	42.4	YES	NO	bb	dd	1.405

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.33	1.274e5	8.504e4		1.50	1.55	1353.1	YES	NO	bb	bb	22.290

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.92	1.362e4	9.342e3	0.866	1.46	1.55	110.6	YES	NO	dd	dd	2.627
2	Total-pentafurans	28.79	7.955e3	5.490e3	0.866	1.45	1.55	42.5	YES	NO	dd	dd	1.538
3	Total-pentafurans	28.70	1.670e3	1.107e3	0.866	1.51	1.55	13.7	YES	NO	bd	bd	0.318
4	23478-PeCDF	31.40	5.662e3	3.719e3	0.911	1.52	1.55	36.1	YES	NO	db	dd	1.052
5	Total-pentafurans	31.25	1.350e4	9.003e3	0.866	1.50	1.55	84.2	YES	NO	dd	dd	2.574
6	Total-pentafurans	31.13	2.611e3	1.869e3	0.866	1.40	1.55	18.1	YES	NO	bd	bd	0.513
7	Total-pentafurans	30.37	1.162e3	7.847e2	0.866	1.48	1.55	8.1	YES	NO	db	db	0.223
8	Total-pentafurans	30.25	5.841e3	3.931e3	0.866	1.49	1.55	35.5	YES	NO	bd	bd	1.118
9	12378-PeCDF	30.05	3.487e3	2.252e3	0.845	1.55	1.55	20.6	YES	NO	bb	bb	0.654
10	Total-pentafurans	29.77	1.338e3	9.200e2	0.866	1.45	1.55	11.8	YES	NO	db	db	0.258
11	Total-pentafurans	29.69	1.223e4	8.871e3	0.866	1.38	1.55	71.7	YES	NO	dd	dd	2.414
12	Total-pentafurans	29.59	3.101e3	2.141e3	0.866	1.45	1.55	23.0	YES	NO	dd	dd	0.600
13	Total-pentafurans	29.12	7.008e3	4.429e3	0.866	1.58	1.55	46.6	YES	NO	db	dd	1.308
14	Total-pentafurans	28.99	4.055e4	2.656e4	0.866	1.53	1.55	236.2	YES	NO	dd	dd	7.678
15	Total-pentafurans	32.38	3.952e3	2.798e3	0.866	1.41	1.55	22.6	YES	NO	bb	bb	0.772

## HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HxCDF	33.35	2.276e4	1.874e4	1.197	1.21	1.24	238.0	YES	NO	bd	bd	4.345
2	123789-HxCDF	37.01	1.926e3	1.699e3	1.187	1.13	1.24	21.8	YES	NO	bb	bb	0.441
3	234678-HxCDF	35.98	1.139e4	8.680e3	1.229	1.31	1.24	91.6	YES	NO	bd	bb	2.190
4	Total-hexafurans	35.66	4.064e2	3.058e2	1.208	1.33	1.24	4.7	YES	NO	bb	bb	0.077
5	Total-hexafurans	35.49	7.819e2	7.370e2	1.208	1.06	1.24	8.1	YES	NO	bb	bb	0.165
6	123678-HxCDF	35.15	7.513e3	5.909e3	1.248	1.27	1.24	77.5	YES	NO	db	db	1.333
7	123478-HxCDF	35.01	7.195e3	5.512e3	1.182	1.31	1.24	80.8	YES	NO	dd	bd	1.348
8	Total-hexafurans	34.85	2.385e3	1.732e3	1.208	1.38	1.24	22.7	YES	NO	bd	bb	0.448
9	Total-hexafurans	34.39	9.898e4	7.945e4	1.208	1.25	1.24	1077.1	YES	NO	bb	bb	19.407
10	Total-hexafurans	34.09	4.569e3	3.417e3	1.208	1.34	1.24	49.2	YES	NO	bb	bb	0.869
11	Total-hexafurans	33.74	2.781e2	2.106e2	1.208	1.32	1.24	3.9	YES	NO	dd	dd	0.053
12	Total-hexafurans	33.56	7.540e4	6.078e4	1.208	1.24	1.24	755.8	YES	NO	dd	dd	14.812

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	2.997e3	2.640e3	1.165	1.14	1.05	26.2	YES	NO	bb	bb	0.850
2	Total-heptafurans	39.53	1.324e5	1.309e5	1.185	1.01	1.05	1294.8	YES	NO	bb	bb	36.268
3	Total-heptafurans	39.28	1.393e3	1.333e3	1.185	1.05	1.05	12.5	YES	NO	bb	bb	0.375
4	1234678-HpCDF	38.86	1.885e5	1.843e5	1.204	1.02	1.05	1870.2	YES	NO	bb	bb	47.159

## Quantify Totals Report MassLynx V4.1 SCN909

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## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.81	1.561e4	2.292e4	0.933	0.68	0.77	115.8	YES	NO	db	dd	3.749
2	Total-tetrafurans	24.66	3.401e3	4.966e3	0.933	0.68	0.77	21.4	YES	NO	dd	dd	0.814
3	Total-tetrafurans	24.14	4.293e3	6.082e3	0.933	0.71	0.77	34.4	YES	NO	db	db	1.009
4	Total-tetrafurans	23.92	2.747e4	3.751e4	0.933	0.73	0.77	150.6	YES	NO	dd	bd	6.322
5	Total-tetrafurans	23.73	2.080e3	2.898e3	0.933	0.72	0.77	20.2	YES	NO	dd	db	0.484
6	Total-tetrafurans	23.64	1.310e4	1.594e4	0.933	0.82	0.77	98.8	YES	NO	dd	dd	2.826
7	Total-tetrafurans	23.55	5.213e3	6.846e3	0.933	0.76	0.77	35.4	YES	NO	dd	dd	1.173
8	Total-tetrafurans	23.24	2.541e4	3.193e4	0.933	0.80	0.77	191.1	YES	NO	bd	bd	5.579
9	Total-tetrafurans	22.66	6.511e3	7.877e3	0.933	0.83	0.77	53.8	YES	NO	bb	dd	1.400
10	1368-TCDF	22.40	5.498e3	7.721e3	1.064	0.71	0.77	34.4	YES	NO	bb	dd	1.127
11	Total-Furans	27.83	2.332e3	3.205e3	1.067	0.73	0.77	15.7	YES	NO	bb	bb	0.471
12	1289-TCDF	27.35	1.473e3	2.146e3	0.858	0.69	0.77	6.7	YES	NO	bb	bb	0.383
13	Total-tetrafurans	26.96	3.291e3	4.481e3	0.933	0.73	0.77	27.6	YES	NO	bb	bb	0.756
14	Total-tetrafurans	26.31	1.119e4	1.522e4	0.933	0.74	0.77	85.5	YES	NO	dd	db	2.570
15	Total-tetrafurans	26.14	5.399e3	7.858e3	0.933	0.69	0.77	35.3	YES	NO	dd	dd	1.290
16	2378-TCDF	25.93	1.200e4	1.578e4	0.876	0.76	0.77	76.9	YES	NO	bd	bd	2.877
17	Total-tetrafurans	25.28	1.002e4	1.261e4	0.933	0.80	0.77	56.6	YES	NO	bd	dd	2.202
18	Total-tetrafurans	24.99	5.901e3	8.542e3	0.933	0.69	0.77	42.4	YES	NO	bb	dd	1.405
19	Total-pentafurans	28.92	1.362e4	9.342e3	0.866	1.46	1.55	110.6	YES	NO	dd	dd	2.627
20	Total-pentafurans	28.79	7.955e3	5.490e3	0.866	1.45	1.55	42.5	YES	NO	dd	dd	1.538
21	Total-pentafurans	28.70	1.670e3	1.107e3	0.866	1.51	1.55	13.7	YES	NO	bd	bd	0.318
22	23478-PeCDF	31.40	5.662e3	3.719e3	0.911	1.52	1.55	36.1	YES	NO	db	dd	1.052
23	Total-pentafurans	31.25	1.350e4	9.003e3	0.866	1.50	1.55	84.2	YES	NO	dd	dd	2.574
24	Total-pentafurans	31.13	2.611e3	1.869e3	0.866	1.40	1.55	18.1	YES	NO	bd	bd	0.513
25	Total-pentafurans	30.37	1.162e3	7.847e2	0.866	1.48	1.55	8.1	YES	NO	db	db	0.223
26	Total-pentafurans	30.25	5.841e3	3.931e3	0.866	1.49	1.55	35.5	YES	NO	bd	bd	1.118
27	12378-PeCDF	30.05	3.487e3	2.252e3	0.845	1.55	1.55	20.6	YES	NO	bb	bb	0.654
28	Total-pentafurans	29.77	1.338e3	9.200e2	0.866	1.45	1.55	11.8	YES	NO	db	db	0.258
29	Total-pentafurans	29.69	1.223e4	8.871e3	0.866	1.38	1.55	71.7	YES	NO	dd	dd	2.414
30	Total-pentafurans	29.59	3.101e3	2.141e3	0.866	1.45	1.55	23.0	YES	NO	dd	dd	0.600
31	Total-pentafurans	29.12	7.008e3	4.429e3	0.866	1.58	1.55	46.6	YES	NO	db	dd	1.308
32	Total-pentafurans	28.99	4.055e4	2.656e4	0.866	1.53	1.55	236.2	YES	NO	dd	dd	7.678
33	Total-pentafurans	32.38	3.952e3	2.798e3	0.866	1.41	1.55	22.6	YES	NO	bb	bb	0.772
34	123468-HXCDF	33.35	2.276e4	1.874e4	1.197	1.21	1.24	238.0	YES	NO	bd	bd	4.345
35	123789-HxCDF	37.01	1.926e3	1.699e3	1.187	1.13	1.24	21.8	YES	NO	bb	bb	0.441
36	234678-HxCDF	35.98	1.139e4	8.680e3	1.229	1.31	1.24	91.6	YES	NO	bd	bb	2.190
37	Total-hexafurans	35.66	4.064e2	3.058e2	1.208	1.33	1.24	4.7	YES	NO	bb	bb	0.077



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexafurans	35.49	7.819e2	7.370e2	1.208	1.06	1.24	8.1	YES	NO	bb	bb	0.165
39	123678-HxCDF	35.15	7.513e3	5.909e3	1.248	1.27	1.24	77.5	YES	NO	db	db	1.333
40	123478-HxCDF	35.01	7.195e3	5.512e3	1.182	1.31	1.24	80.8	YES	NO	dd	bd	1.348
41	Total-hexafurans	34.85	2.385e3	1.732e3	1.208	1.38	1.24	22.7	YES	NO	bd	bb	0.448
42	Total-hexafurans	34.39	9.898e4	7.945e4	1.208	1.25	1.24	1077.1	YES	NO	bb	bb	19.407
43	Total-hexafurans	34.09	4.569e3	3.417e3	1.208	1.34	1.24	49.2	YES	NO	bb	bb	0.869
44	Total-hexafurans	33.74	2.781e2	2.106e2	1.208	1.32	1.24	3.9	YES	NO	dd	dd	0.053
45	Total-hexafurans	33.56	7.540e4	6.078e4	1.208	1.24	1.24	755.8	YES	NO	dd	dd	14.812
46	1234789-HpCDF	41.11	2.997e3	2.640e3	1.165	1.14	1.05	26.2	YES	NO	bb	bb	0.850
47	Total-heptafurans	39.53	1.324e5	1.309e5	1.185	1.01	1.05	1294.8	YES	NO	bb	bb	36.268
48	Total-heptafurans	39.28	1.393e3	1.333e3	1.185	1.05	1.05	12.5	YES	NO	bb	bb	0.375
49	1234678-HpCDF	38.86	1.885e5	1.843e5	1.204	1.02	1.05	1870.2	YES	NO	bb	bb	47.159
50	OCDF	45.38	6.230e4	6.837e4	1.186	0.91	0.89	700.5	YES	NO	bb	bb	20.968
51	Total-penta1	27.33	1.274e5	8.504e4		1.50	1.55	1353.1	YES	NO	bb	bb	22.290

## TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.67	9.723e3	1.195e4	1.084	0.81	0.77	86.3	YES	NO	bb	bb	2.367
2	Total-tetradoxins	26.67	9.100e2	1.195e3	1.099	0.76	0.77	6.7	YES	NO	db	db	0.227
3	Total-tetradoxins	26.15	2.353e3	2.672e3	1.099	0.88	0.77	13.5	YES	NO	bb	bb	0.542
4	Total-tetradoxins	25.16	3.206e3	4.049e3	1.099	0.79	0.77	26.1	YES	NO	bb	bb	0.782
5	Total-tetradoxins	24.88	2.793e3	3.864e3	1.099	0.72	0.77	17.8	YES	NO	bb	bb	0.718
6	Total-tetradoxins	24.67	1.058e3	1.361e3	1.099	0.78	0.77	8.6	YES	NO	bb	bb	0.261
7	Total-tetradoxins	23.95	6.034e3	7.128e3	1.099	0.85	0.77	48.4	YES	NO	bb	bb	1.419

## PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.04	1.158e3	6.591e2	1.252	1.76	1.55	12.1	YES	NO	bb	bb	0.224
2	Total-pentadoxins	30.98	2.428e3	1.757e3	1.392	1.38	1.55	20.1	YES	NO	bb	bb	0.464
3	Total-pentadoxins	30.56	3.215e3	2.159e3	1.392	1.49	1.55	19.2	YES	NO	db	db	0.596
4	Total-pentadoxins	30.41	6.156e3	4.025e3	1.392	1.53	1.55	66.7	YES	NO	dd	dd	1.130
5	Total-pentadoxins	30.05	7.739e3	5.409e3	1.392	1.43	1.55	80.1	YES	NO	bb	bb	1.459
6	12479-PECDD	28.97	1.532e4	1.012e4	1.837	1.51	1.55	102.9	YES	NO	bb	bb	2.139

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	35.25	2.073e4	1.609e4	1.007	1.29	1.24	104.2	YES	NO	bd	bd	4.824
2	Total-hexadioxins	34.88	2.239e4	1.764e4	1.007	1.27	1.24	155.2	YES	NO	bd	bb	5.243
3	124679-HxCDD	34.13	1.759e4	1.463e4	1.033	1.20	1.24	129.8	YES	NO	bb	bb	4.145
4	123789-HxCDD	36.62	3.219e3	2.946e3	0.985	1.09	1.24	26.7	YES	NO	bb	bb	0.825
5	123678-HxCDD	36.23	5.106e3	4.739e3	1.021	1.08	1.24	40.6	YES	NO	db	dd	1.262
6	123478-HxCDD	36.12	1.365e3	1.146e3	0.987	1.19	1.24	10.8	YES	NO	bd	bd	0.338

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.38	5.410e4	5.225e4	1.253	1.04	1.05	318.2	YES	NO	bb	bb	15.839
2	1234679-HPCDD	39.32	6.115e4	6.038e4	1.286	1.01	1.05	406.9	YES	NO	bb	bb	17.628

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

## Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.67	9.723e3	1.195e4	1.084	0.81	0.77	86.3	YES	NO	bb	bb	2.367
2	Total-tetradoxins	26.67	9.100e2	1.195e3	1.099	0.76	0.77	6.7	YES	NO	db	db	0.227
3	Total-tetradoxins	26.15	2.353e3	2.672e3	1.099	0.88	0.77	13.5	YES	NO	bb	bb	0.542
4	Total-tetradoxins	25.16	3.206e3	4.049e3	1.099	0.79	0.77	26.1	YES	NO	bb	bb	0.782
5	Total-tetradoxins	24.88	2.793e3	3.864e3	1.099	0.72	0.77	17.8	YES	NO	bb	bb	0.718
6	Total-tetradoxins	24.67	1.058e3	1.361e3	1.099	0.78	0.77	8.6	YES	NO	bb	bb	0.261
7	Total-tetradoxins	23.95	6.034e3	7.128e3	1.099	0.85	0.77	48.4	YES	NO	bb	bb	1.419
8	12389-PECDD	32.04	1.158e3	6.591e2	1.252	1.76	1.55	12.1	YES	NO	bb	bb	0.224
9	Total-pentadoxins	30.98	2.428e3	1.757e3	1.392	1.38	1.55	20.1	YES	NO	bb	bb	0.464
10	Total-pentadoxins	30.56	3.215e3	2.159e3	1.392	1.49	1.55	19.2	YES	NO	db	db	0.596
11	Total-pentadoxins	30.41	6.156e3	4.025e3	1.392	1.53	1.55	66.7	YES	NO	dd	dd	1.130
12	Total-pentadoxins	30.05	7.739e3	5.409e3	1.392	1.43	1.55	80.1	YES	NO	bb	bb	1.459
13	12479-PECDD	28.97	1.532e4	1.012e4	1.837	1.51	1.55	102.9	YES	NO	bb	bb	2.139
14	Total-hexadoxins	35.25	2.073e4	1.609e4	1.007	1.29	1.24	104.2	YES	NO	bd	bd	4.824
15	Total-hexadoxins	34.88	2.239e4	1.764e4	1.007	1.27	1.24	155.2	YES	NO	bd	bb	5.243
16	124679-HXCDD	34.13	1.759e4	1.463e4	1.033	1.20	1.24	129.8	YES	NO	bb	bb	4.145
17	123789-HxCDD	36.62	3.219e3	2.946e3	0.985	1.09	1.24	26.7	YES	NO	bb	bb	0.825
18	123678-HxCDD	36.23	5.106e3	4.739e3	1.021	1.08	1.24	40.6	YES	NO	db	dd	1.262
19	123478-HxCDD	36.12	1.365e3	1.146e3	0.987	1.19	1.24	10.8	YES	NO	bd	bd	0.338
20	OCDD	45.14	2.599e5	2.973e5	1.103	0.87	0.89	2041.4	YES	NO	bb	bb	96.193
21	1234678-HpCDD	40.38	5.410e4	5.225e4	1.253	1.04	1.05	318.2	YES	NO	bb	bb	15.839
22	1234679-HPCDD	39.32	6.115e4	6.038e4	1.286	1.01	1.05	406.9	YES	NO	bb	bb	17.628

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.81	1.561e4	2.292e4	0.933	0.68	0.77	115.8	YES	NO	db	dd	3.749
2	Total-tetrafurans	24.66	3.401e3	4.966e3	0.933	0.68	0.77	21.4	YES	NO	dd	dd	0.814
3	Total-tetrafurans	24.14	4.293e3	6.082e3	0.933	0.71	0.77	34.4	YES	NO	db	db	1.009
4	Total-tetrafurans	23.92	2.747e4	3.751e4	0.933	0.73	0.77	150.6	YES	NO	dd	bd	6.322
5	Total-tetrafurans	23.73	2.080e3	2.898e3	0.933	0.72	0.77	20.2	YES	NO	dd	db	0.484
6	Total-tetrafurans	23.64	1.310e4	1.594e4	0.933	0.82	0.77	98.8	YES	NO	dd	dd	2.826
7	Total-tetrafurans	23.55	5.213e3	6.846e3	0.933	0.76	0.77	35.4	YES	NO	dd	dd	1.173
8	Total-tetrafurans	23.24	2.541e4	3.193e4	0.933	0.80	0.77	191.1	YES	NO	bd	bd	5.579
9	Total-tetrafurans	22.66	6.511e3	7.877e3	0.933	0.83	0.77	53.8	YES	NO	bb	dd	1.400
10	1368-TCDF	22.40	5.498e3	7.721e3	1.064	0.71	0.77	34.4	YES	NO	bb	dd	1.127
11	Total-Furans	27.83	2.332e3	3.205e3	1.067	0.73	0.77	15.7	YES	NO	bb	bb	0.471
12	1289-TCDF	27.35	1.473e3	2.146e3	0.858	0.69	0.77	6.7	YES	NO	bb	bb	0.383
13	Total-tetrafurans	26.96	3.291e3	4.481e3	0.933	0.73	0.77	27.6	YES	NO	bb	bb	0.756
14	Total-tetrafurans	26.31	1.119e4	1.522e4	0.933	0.74	0.77	85.5	YES	NO	dd	db	2.570
15	Total-tetrafurans	26.14	5.399e3	7.858e3	0.933	0.69	0.77	35.3	YES	NO	dd	dd	1.290
16	2378-TCDF	25.93	1.200e4	1.578e4	0.876	0.76	0.77	76.9	YES	NO	bd	bd	2.877
17	Total-tetrafurans	25.28	1.002e4	1.261e4	0.933	0.80	0.77	56.6	YES	NO	bd	dd	2.202
18	Total-tetrafurans	24.99	5.901e3	8.542e3	0.933	0.69	0.77	42.4	YES	NO	bb	dd	1.405
19	Total-pentafurans	28.92	1.362e4	9.342e3	0.866	1.46	1.55	110.6	YES	NO	dd	dd	2.627
20	Total-pentafurans	28.79	7.955e3	5.490e3	0.866	1.45	1.55	42.5	YES	NO	dd	dd	1.538
21	Total-pentafurans	28.70	1.670e3	1.107e3	0.866	1.51	1.55	13.7	YES	NO	bd	bd	0.318
22	23478-PeCDF	31.40	5.662e3	3.719e3	0.911	1.52	1.55	36.1	YES	NO	db	dd	1.052
23	Total-pentafurans	31.25	1.350e4	9.003e3	0.866	1.50	1.55	84.2	YES	NO	dd	dd	2.574
24	Total-pentafurans	31.13	2.611e3	1.869e3	0.866	1.40	1.55	18.1	YES	NO	bd	bd	0.513
25	Total-pentafurans	30.37	1.162e3	7.847e2	0.866	1.48	1.55	8.1	YES	NO	db	db	0.223
26	Total-pentafurans	30.25	5.841e3	3.931e3	0.866	1.49	1.55	35.5	YES	NO	bd	bd	1.118
27	12378-PeCDF	30.05	3.487e3	2.252e3	0.845	1.55	1.55	20.6	YES	NO	bb	bb	0.654
28	Total-pentafurans	29.77	1.338e3	9.200e2	0.866	1.45	1.55	11.8	YES	NO	db	db	0.258
29	Total-pentafurans	29.69	1.223e4	8.871e3	0.866	1.38	1.55	71.7	YES	NO	dd	dd	2.414
30	Total-pentafurans	29.59	3.101e3	2.141e3	0.866	1.45	1.55	23.0	YES	NO	dd	dd	0.600
31	Total-pentafurans	29.12	7.008e3	4.429e3	0.866	1.58	1.55	46.6	YES	NO	db	dd	1.308
32	Total-pentafurans	28.99	4.055e4	2.656e4	0.866	1.53	1.55	236.2	YES	NO	dd	dd	7.678
33	Total-pentafurans	32.38	3.952e3	2.798e3	0.866	1.41	1.55	22.6	YES	NO	bb	bb	0.772
34	123468-HXCDF	33.35	2.276e4	1.874e4	1.197	1.21	1.24	238.0	YES	NO	bd	bd	4.345
35	123789-HxCDF	37.01	1.926e3	1.699e3	1.187	1.13	1.24	21.8	YES	NO	bb	bb	0.441
36	234678-HxCDF	35.98	1.139e4	8.680e3	1.229	1.31	1.24	91.6	YES	NO	bd	bb	2.190
37	Total-hexafurans	35.66	4.064e2	3.058e2	1.208	1.33	1.24	4.7	YES	NO	bb	bb	0.077

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexafurans	35.49	7.819e2	7.370e2	1.208	1.06	1.24	8.1	YES	NO	bb	bb	0.165
39	123678-HxCDF	35.15	7.513e3	5.909e3	1.248	1.27	1.24	77.5	YES	NO	db	db	1.333
40	123478-HxCDF	35.01	7.195e3	5.512e3	1.182	1.31	1.24	80.8	YES	NO	dd	bd	1.348
41	Total-hexafurans	34.85	2.385e3	1.732e3	1.208	1.38	1.24	22.7	YES	NO	bd	bb	0.448
42	Total-hexafurans	34.39	9.898e4	7.945e4	1.208	1.25	1.24	1077.1	YES	NO	bb	bb	19.407
43	Total-hexafurans	34.09	4.569e3	3.417e3	1.208	1.34	1.24	49.2	YES	NO	bb	bb	0.869
44	Total-hexafurans	33.74	2.781e2	2.106e2	1.208	1.32	1.24	3.9	YES	NO	dd	dd	0.053
45	Total-hexafurans	33.56	7.540e4	6.078e4	1.208	1.24	1.24	755.8	YES	NO	dd	dd	14.812
46	1234789-HpCDF	41.11	2.997e3	2.640e3	1.165	1.14	1.05	26.2	YES	NO	bb	bb	0.850
47	Total-heptafurans	39.53	1.324e5	1.309e5	1.185	1.01	1.05	1294.8	YES	NO	bb	bb	36.268
48	Total-heptafurans	39.28	1.393e3	1.333e3	1.185	1.05	1.05	12.5	YES	NO	bb	bb	0.375
49	1234678-HpCDF	38.86	1.885e5	1.843e5	1.204	1.02	1.05	1870.2	YES	NO	bb	bb	47.159
50	OCDF	45.38	6.230e4	6.837e4	1.186	0.91	0.89	700.5	YES	NO	bb	bb	20.968
51	Total-penta1	27.33	1.274e5	8.504e4		1.50	1.55	1353.1	YES	NO	bb	bb	22.290
52	1368-TCDD	23.67	9.723e3	1.195e4	1.084	0.81	0.77	86.3	YES	NO	bb	bb	2.367
53	Total-tetradiioxins	26.67	9.100e2	1.195e3	1.099	0.76	0.77	6.7	YES	NO	db	db	0.227
54	Total-tetradiioxins	26.15	2.353e3	2.672e3	1.099	0.88	0.77	13.5	YES	NO	bb	bb	0.542
55	Total-tetradiioxins	25.16	3.206e3	4.049e3	1.099	0.79	0.77	26.1	YES	NO	bb	bb	0.782
56	Total-tetradiioxins	24.88	2.793e3	3.864e3	1.099	0.72	0.77	17.8	YES	NO	bb	bb	0.718
57	Total-tetradiioxins	24.67	1.058e3	1.361e3	1.099	0.78	0.77	8.6	YES	NO	bb	bb	0.261
58	Total-tetradiioxins	23.95	6.034e3	7.128e3	1.099	0.85	0.77	48.4	YES	NO	bb	bb	1.419
59	12389-PECDD	32.04	1.158e3	6.591e2	1.252	1.76	1.55	12.1	YES	NO	bb	bb	0.224
60	Total-pentadiioxins	30.98	2.428e3	1.757e3	1.392	1.38	1.55	20.1	YES	NO	bb	bb	0.464
61	Total-pentadiioxins	30.56	3.215e3	2.159e3	1.392	1.49	1.55	19.2	YES	NO	db	db	0.596
62	Total-pentadiioxins	30.41	6.156e3	4.025e3	1.392	1.53	1.55	66.7	YES	NO	dd	dd	1.130
63	Total-pentadiioxins	30.05	7.739e3	5.409e3	1.392	1.43	1.55	80.1	YES	NO	bb	bb	1.459
64	12479-PECDD	28.97	1.532e4	1.012e4	1.837	1.51	1.55	102.9	YES	NO	bb	bb	2.139
65	Total-hexadiioxins	35.25	2.073e4	1.609e4	1.007	1.29	1.24	104.2	YES	NO	bd	bd	4.824
66	Total-hexadiioxins	34.88	2.239e4	1.764e4	1.007	1.27	1.24	155.2	YES	NO	bd	bb	5.243
67	124679-HXCDD	34.13	1.759e4	1.463e4	1.033	1.20	1.24	129.8	YES	NO	bb	bb	4.145
68	123789-HxCDD	36.62	3.219e3	2.946e3	0.985	1.09	1.24	26.7	YES	NO	bb	bb	0.825
69	123678-HxCDD	36.23	5.106e3	4.739e3	1.021	1.08	1.24	40.6	YES	NO	db	dd	1.262
70	123478-HxCDD	36.12	1.365e3	1.146e3	0.987	1.19	1.24	10.8	YES	NO	bd	bd	0.338
71	OCDD	45.14	2.599e5	2.973e5	1.103	0.87	0.89	2041.4	YES	NO	bb	bb	96.193
72	1234678-HpCDD	40.38	5.410e4	5.225e4	1.253	1.04	1.05	318.2	YES	NO	bb	bb	15.839
73	1234679-HPCDD	39.32	6.115e4	6.038e4	1.286	1.01	1.05	406.9	YES	NO	bb	bb	17.628

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:38 Pacific Standard Time

ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.70	7.482e5					7.1	YES		bb		
2	FUNCTION1 PFK	22.49	7.376e6					22.0	YES		bb		
3	FUNCTION1 PFK	21.71	1.734e7					40.1	YES		db		
4	FUNCTION1 PFK	21.59	3.243e6					37.3	YES		bd		
5	FUNCTION1 PFK	21.30	3.604e6					19.6	YES		db		
6	FUNCTION1 PFK	21.18	6.066e5					12.1	YES		bd		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.86	1.411e6					7.5	YES		bb		0.000
2	FUNCTION2 PFK	32.35	4.469e6					13.7	YES		bb		0.000
3	FUNCTION2 PFK	31.26	2.750e5					4.5	YES		bb		0.000
4	FUNCTION2 PFK	29.50	1.383e5					5.2	YES		bb		0.000
5	FUNCTION2 PFK	29.30	1.725e6					11.7	YES		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.12	1.400e6					12.8	YES		bb		0.000
2	FUNCTION3 PFK	36.90	5.540e5					12.3	YES		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.94	2.875e5					8.6	YES		db		
2	FUNCTION4 PFK	39.85	1.424e5					8.4	YES		bd		
3	FUNCTION4 PFK	38.32	1.581e5					3.3	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:38 Pacific Standard Time

ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.29	1.480e4					281.0	YES		bb		0.000
2	FUNCTION1 HXCD...	26.06	7.755e2					17.6	YES		db		0.000
3	FUNCTION1 HXCD...	25.93	7.668e3					143.1	YES		bd		0.000
4	FUNCTION1 HXCD...	25.62	2.176e2					2.9	NO		bb		0.000
5	FUNCTION1 HXCD...	25.26	6.846e3					136.1	YES		bb		0.000
6	FUNCTION1 HXCD...	24.35	1.238e2					3.0	NO		bb		0.000
7	FUNCTION1 HXCD...	24.11	1.892e2					4.7	YES		bb		0.000
8	FUNCTION1 HXCD...	23.93	1.419e4					284.8	YES		bb		0.000
9	FUNCTION1 HXCD...	23.70	1.703e2					3.9	YES		bb		0.000
10	FUNCTION1 HXCD...	22.92	1.430e3					23.7	YES		bb		0.000
11	FUNCTION1 HXCD...	27.82	1.845e3					37.6	YES		bb		0.000
12	FUNCTION1 HXCD...	26.94	4.369e3					85.3	YES		bb		0.000
13	FUNCTION1 HXCD...	26.52	1.577e2					2.9	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	28.09	6.360e2					10.7	YES		db		0.000
2	FUNCTION1 HPCD...	28.00	7.837e1					2.2	NO		bd		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.37	2.304e3					27.4	YES		bb		0.000
2	FUNCTION2 HPCD...	30.65	1.458e2					2.5	NO		bb		0.000
3	FUNCTION2 HPCD...	29.48	9.464e1					2.0	NO		bb		0.000
4	FUNCTION2 HPCD...	29.11	4.793e3					60.5	YES		bb		0.000

ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.94	1.501e2					1.7	NO		bd		0.000
2	FUNCTION3 OCDPE	34.47	9.492e1					1.9	NO		bb		0.000
3	FUNCTION3 OCDPE	34.15	7.797e1					0.9	NO		bb		0.000
4	FUNCTION3 OCDPE	33.27	2.463e2					3.8	YES		bb		0.000
5	FUNCTION3 OCDPE	37.17	7.185e1					1.7	NO		bb		0.000
6	FUNCTION3 OCDPE	36.22	1.788e2					2.6	NO		db		0.000
7	FUNCTION3 OCDPE	36.12	1.298e2					2.6	NO		dd		0.000
8	FUNCTION3 OCDPE	36.08	9.400e1					2.1	NO		dd		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.62	7.038e1					2.0	NO		bb		0.000
2	FUNCTION4 NCDPE	42.44	1.059e2					2.3	NO		db		0.000
3	FUNCTION4 NCDPE	42.39	7.174e1					2.0	NO		bd		0.000
4	FUNCTION4 NCDPE	41.12	9.523e1					2.1	NO		bb		0.000
5	FUNCTION4 NCDPE	40.38	6.619e2					6.6	YES		bb		0.000
6	FUNCTION4 NCDPE	40.20	8.171e1					2.7	NO		bb		0.000
7	FUNCTION4 NCDPE	38.52	6.804e3					92.7	YES		bb		0.000

**ETHERS6**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.03	7.389e1					1.7	NO		bb		0.000
2	FUNCTION5 DCDPE	44.39	7.163e1					1.5	NO		bb		0.000
3	FUNCTION5 DCDPE	43.68	8.036e1					1.4	NO		bb		0.000
4	FUNCTION5 DCDPE	45.93	7.588e1					2.1	NO		bb		0.000
5	FUNCTION5 DCDPE	45.72	9.502e1					1.7	NO		bb		0.000
6	FUNCTION5 DCDPE	45.56	1.268e2					2.4	NO		bb		0.000
7	FUNCTION5 DCDPE	45.32	7.371e1					2.6	NO		bb		0.000

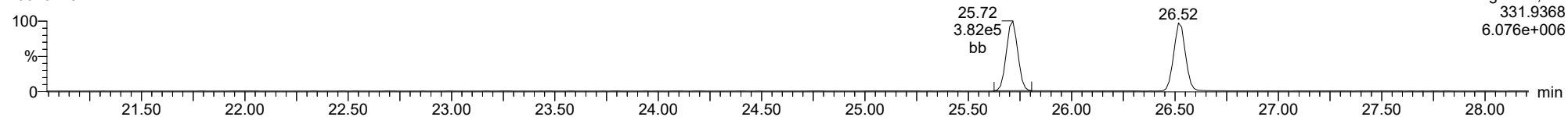


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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

**13C-1234-TCDD**

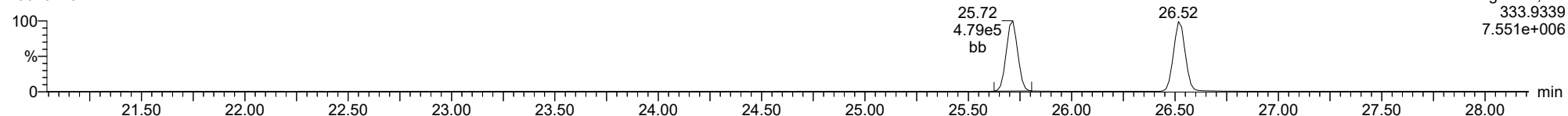
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F1:Voltage SIR,El+  
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6.076e+006

**13C-1234-TCDD**

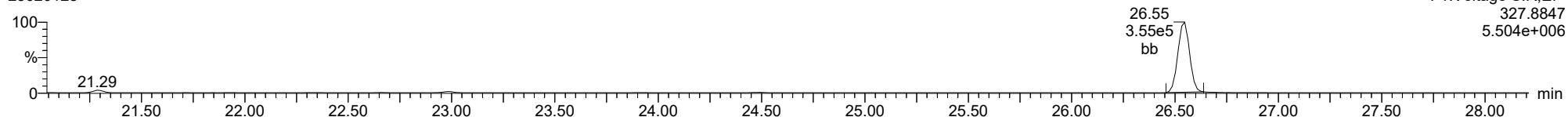
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F1:Voltage SIR,El+  
333.9339  
7.551e+006

**37CL-2378-TCDD**

23020128

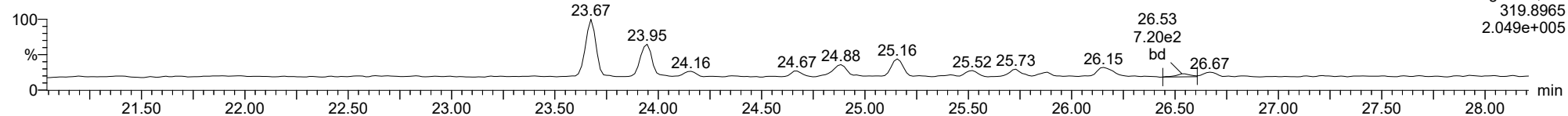


F1:Voltage SIR,El+  
327.8847  
5.504e+006

ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

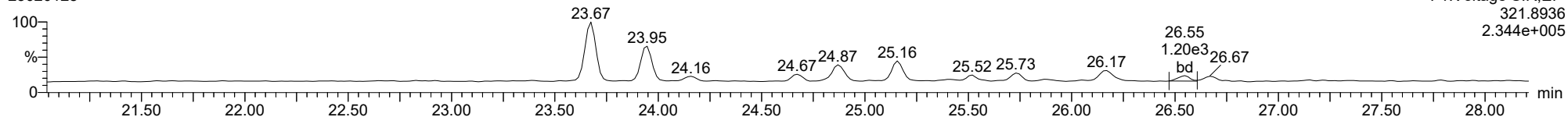
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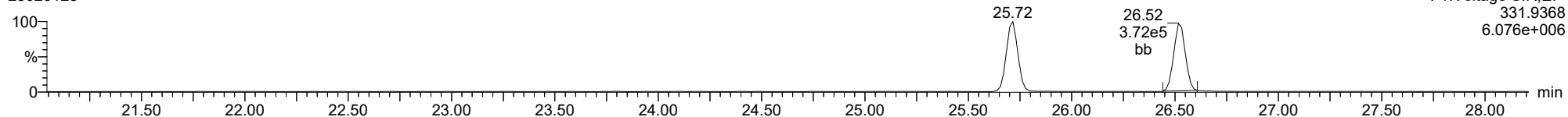
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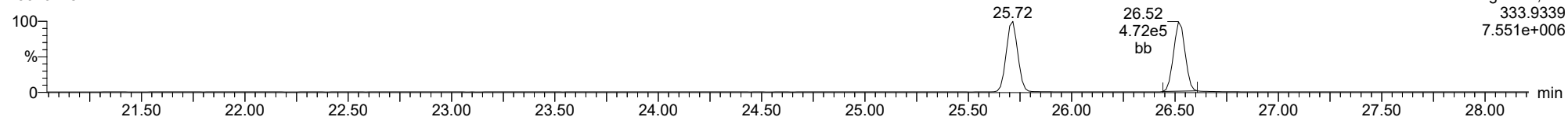
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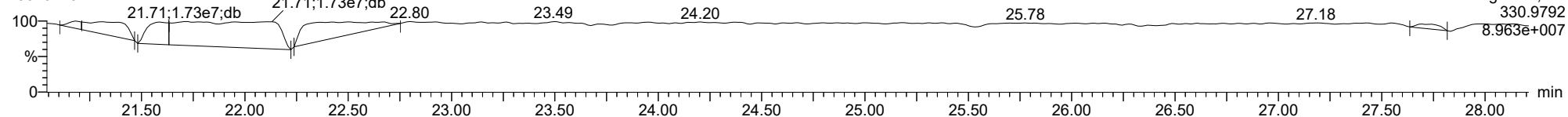
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**FUNCTION1 PFK**

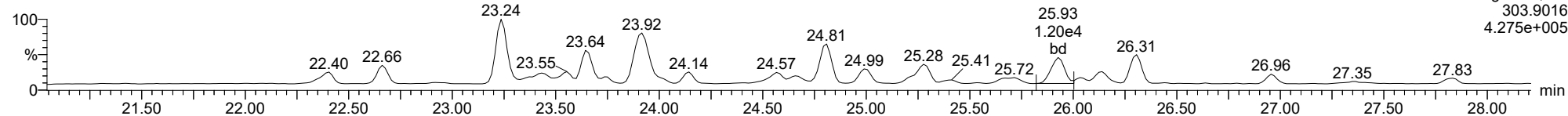
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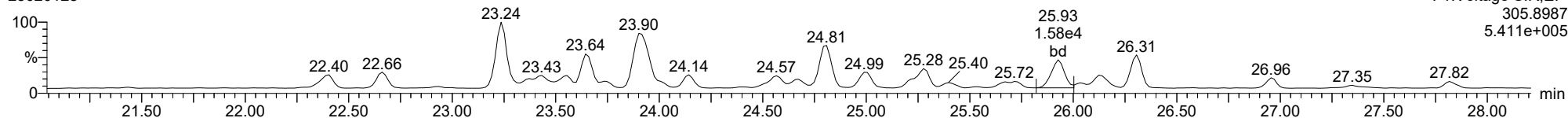
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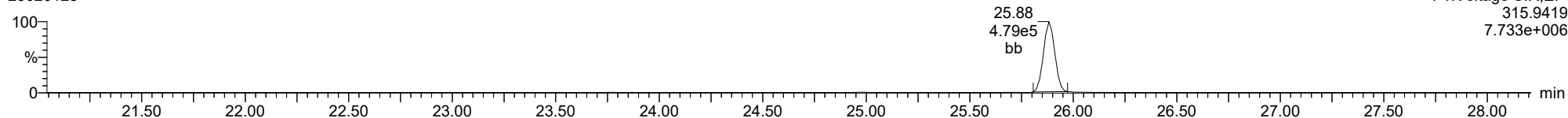
**2378-TCDF**

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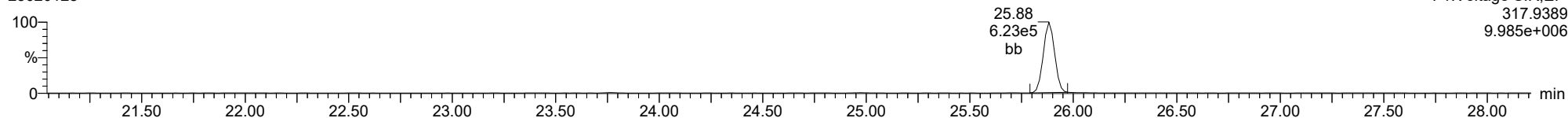
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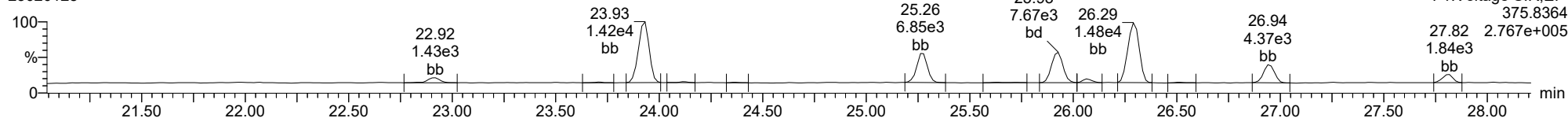
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**FUNCTION1 HXCDPE**

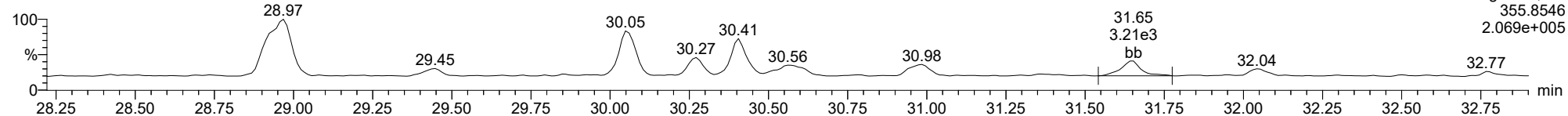
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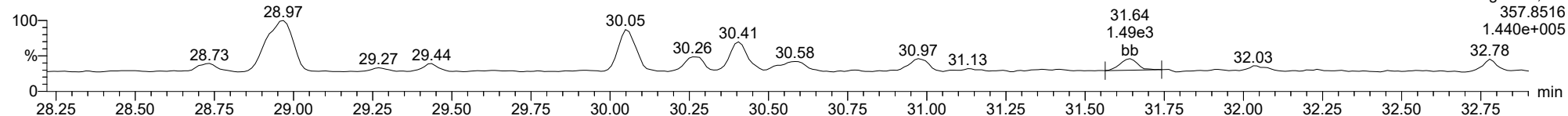
**12378-PeCDD**

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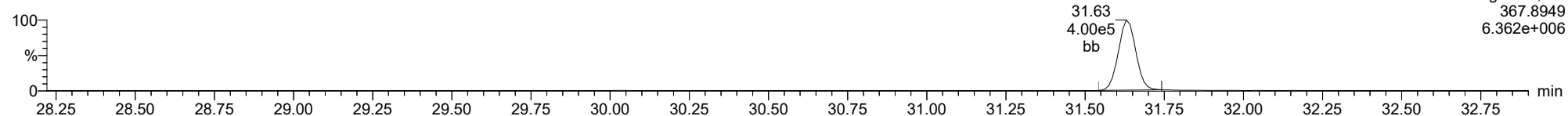
**12378-PeCDD**

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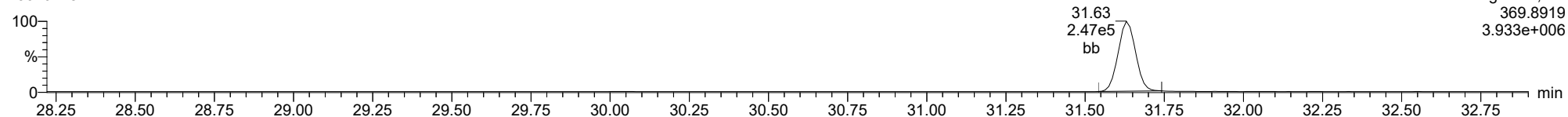
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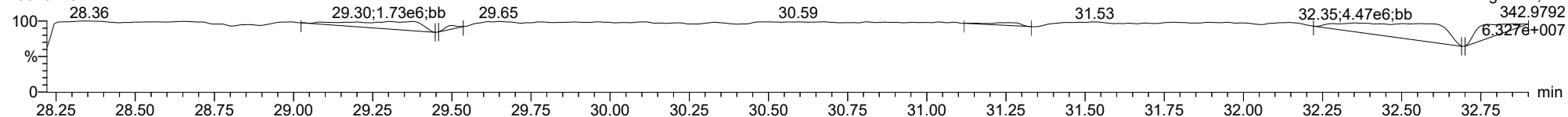
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23020128



**FUNCTION2 PFK**

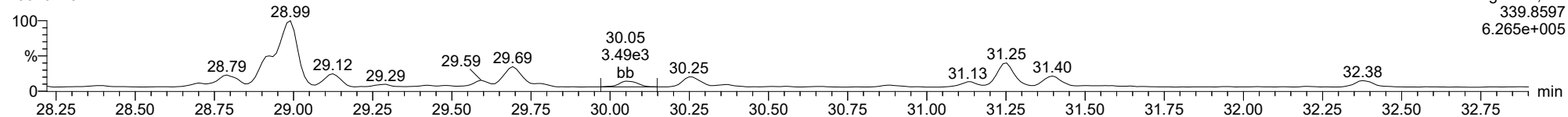
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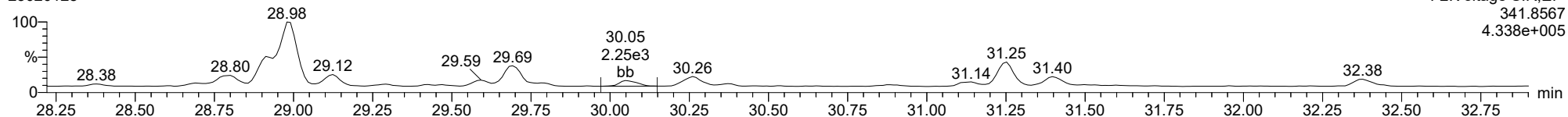
**12378-PeCDF**

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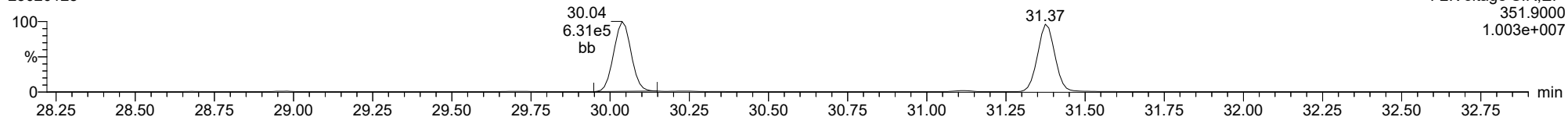
**12378-PeCDF**

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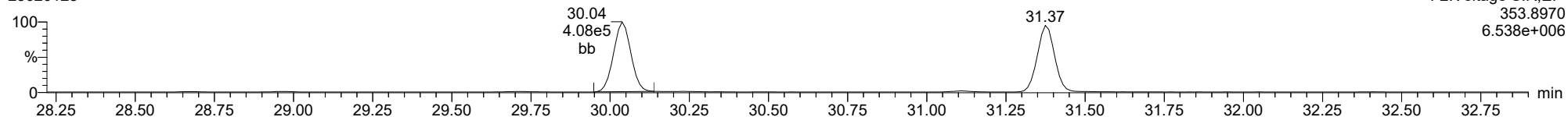
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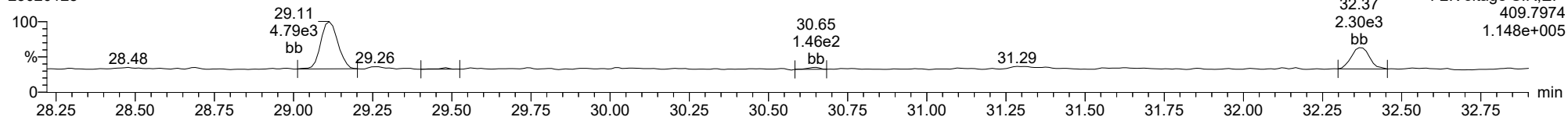
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**FUNCTION2 HPCDPE**

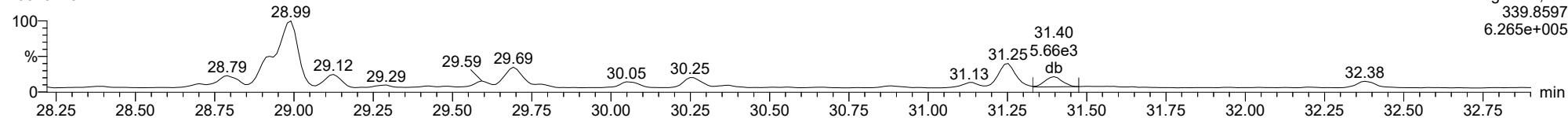
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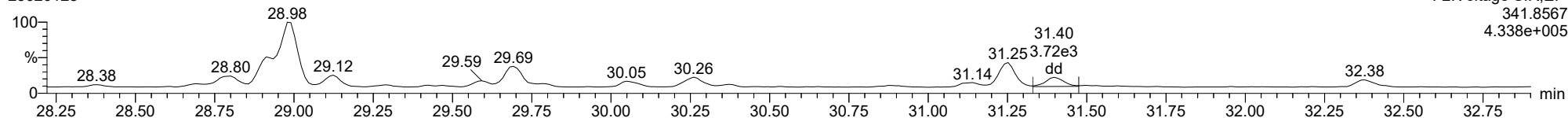
**23478-PeCDF**

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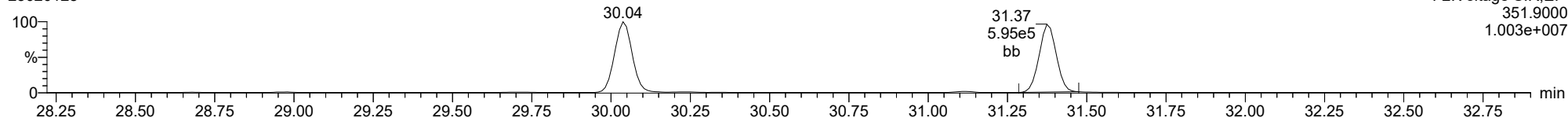
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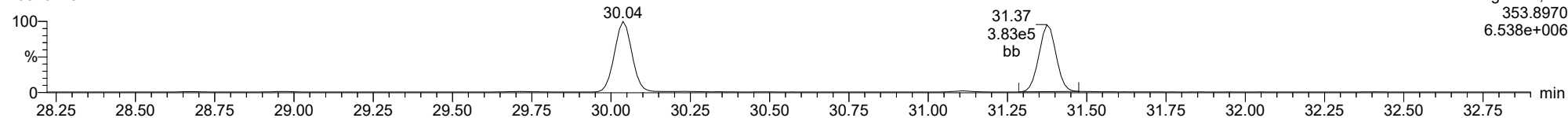
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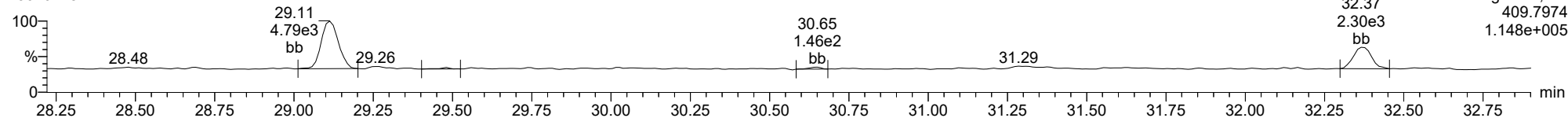
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**FUNCTION2 HPCDPE**

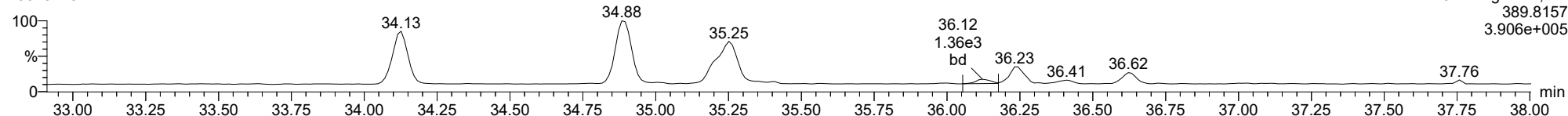
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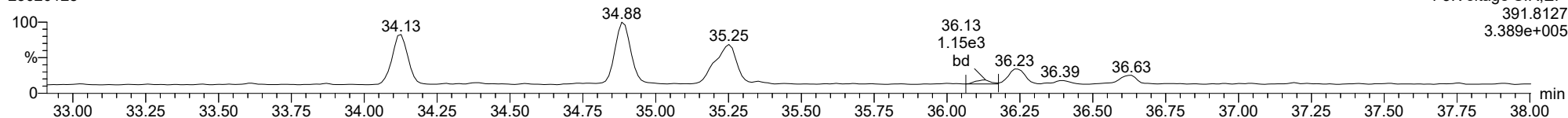
**123478-HxCDD**

23020128



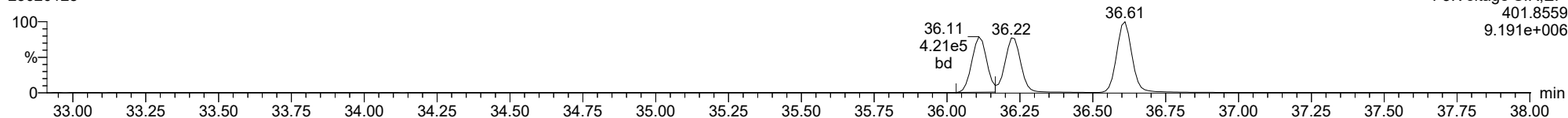
**123478-HxCDD**

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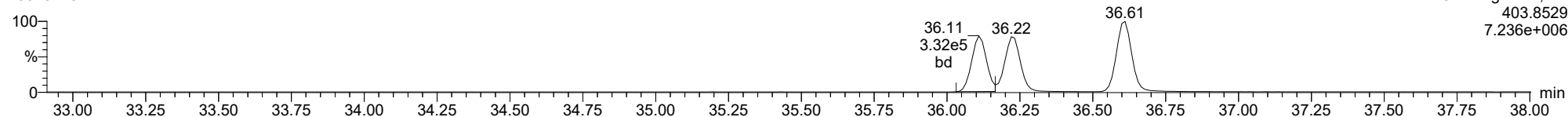
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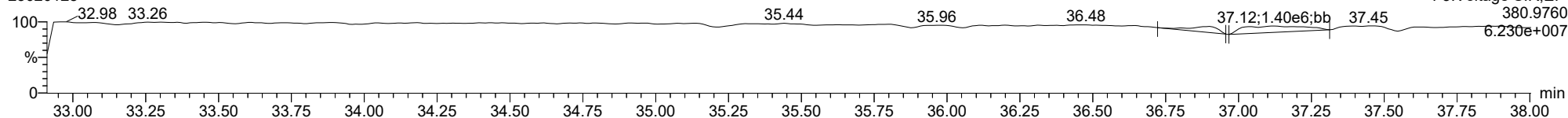
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**FUNCTION3 PFK**

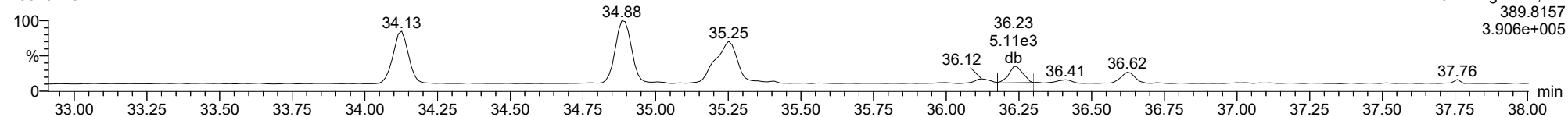
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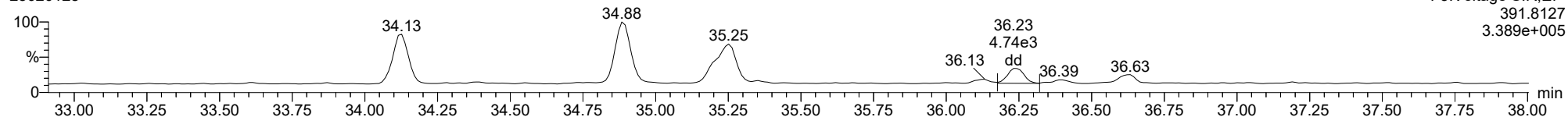
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23020128



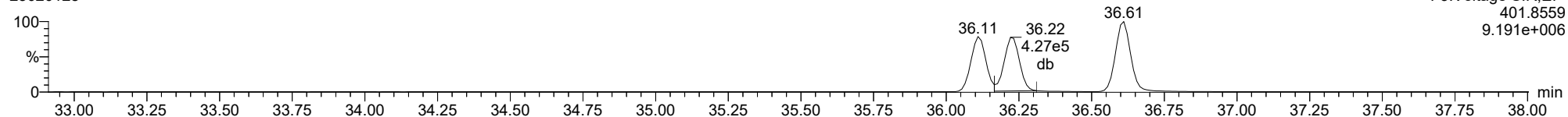
**123678-HxCDD**

23020128



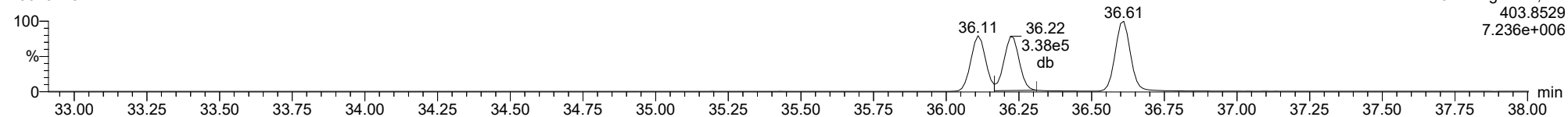
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23020128



**13C-123678-HxCDD**

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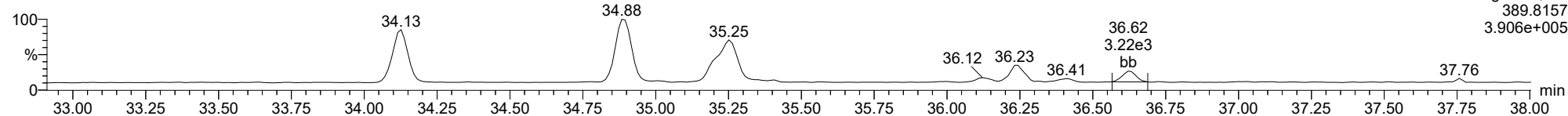




ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

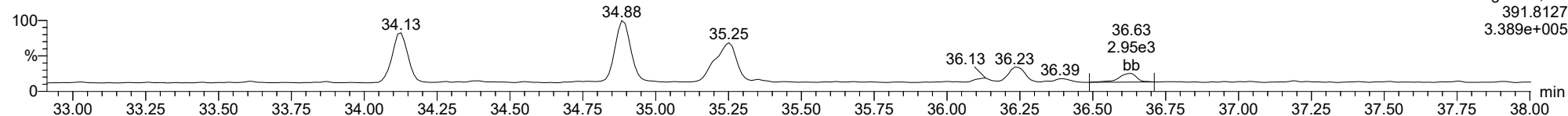
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23020128



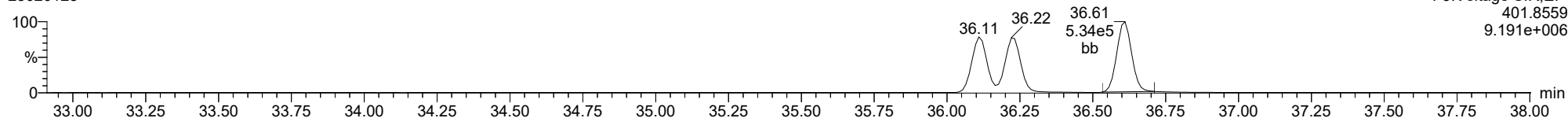
**123789-HxCDD**

23020128



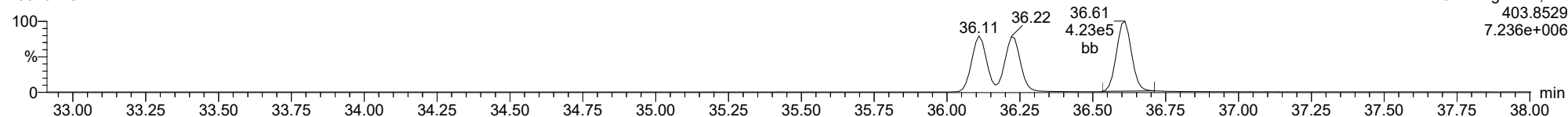
**13C-123789-HxCDD**

23020128



**13C-123789-HxCDD**

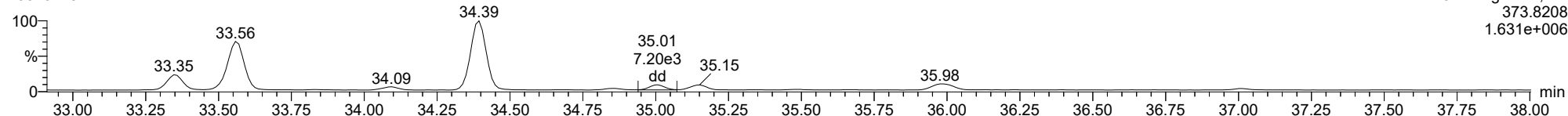
23020128



ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

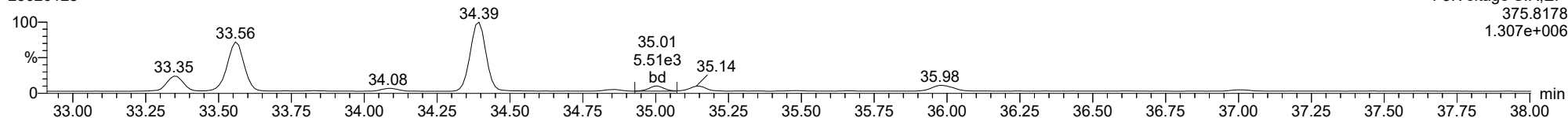
123478-HxCDF

23020128



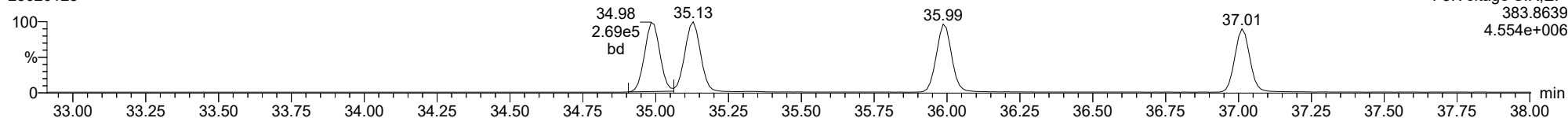
123478-HxCDF

23020128



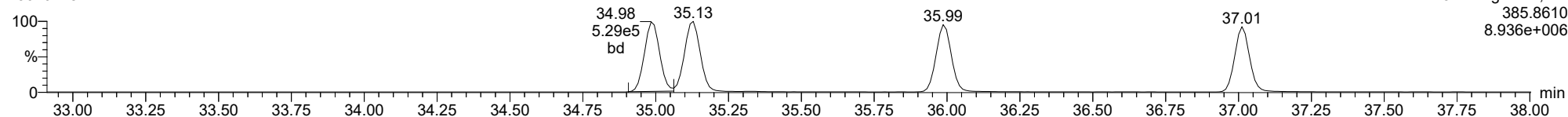
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23020128



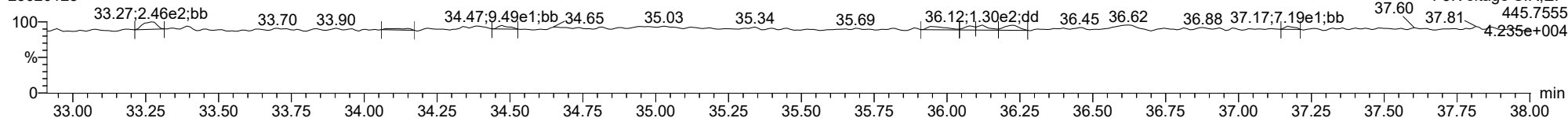
13C-123478-HxCDF

23020128



FUNCTION3 OCDPE

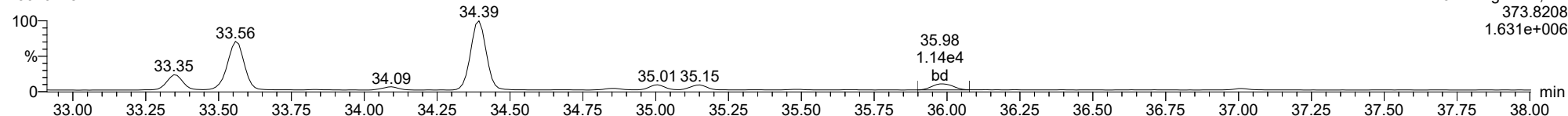
23020128



ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

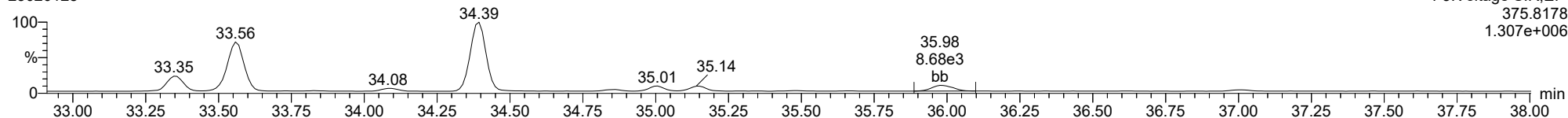
**234678-HxCDF**

23020128



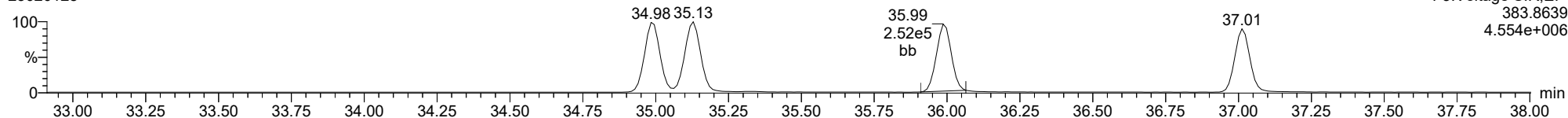
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23020128



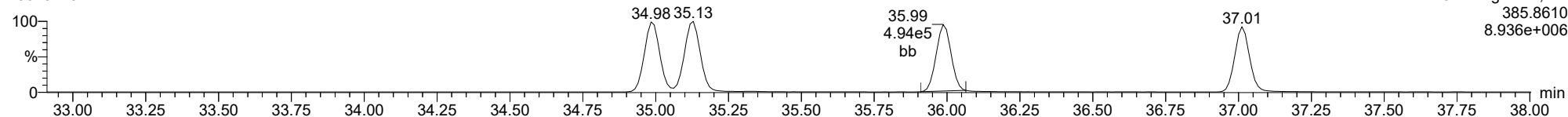
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23020128



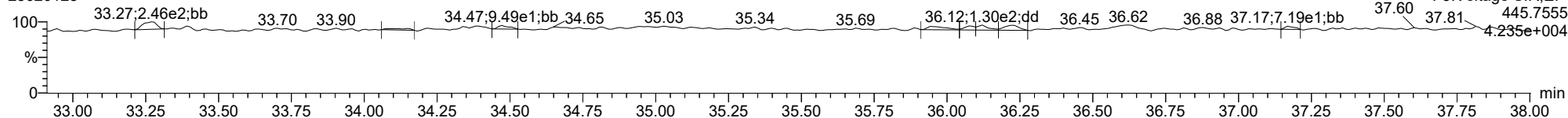
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23020128



**FUNCTION3 OCDPE**

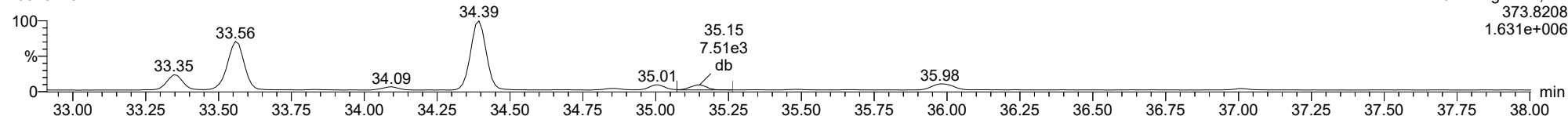
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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

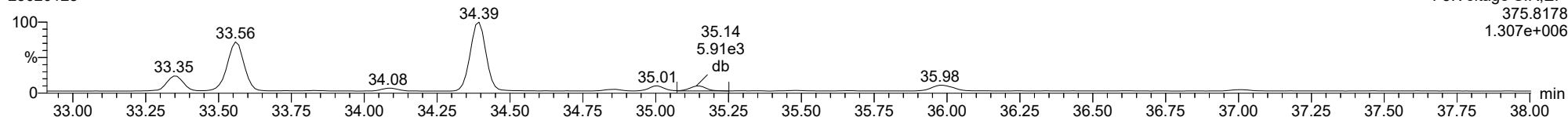
123678-HxCDF

23020128



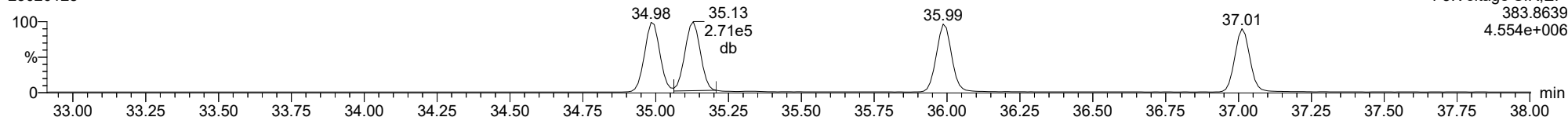
123678-HxCDF

23020128



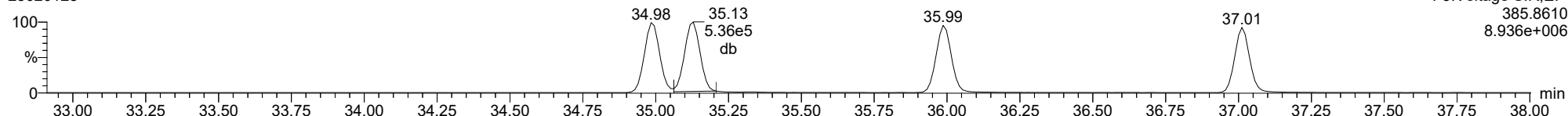
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23020128



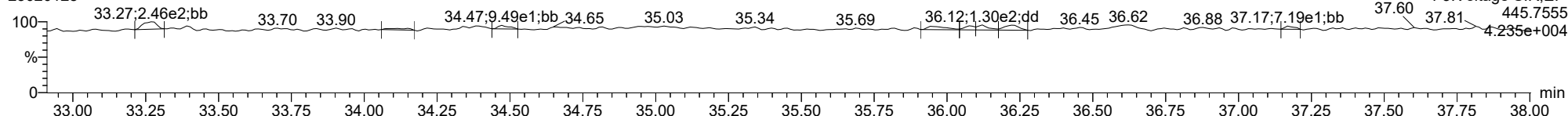
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23020128



FUNCTION3 OCDPE

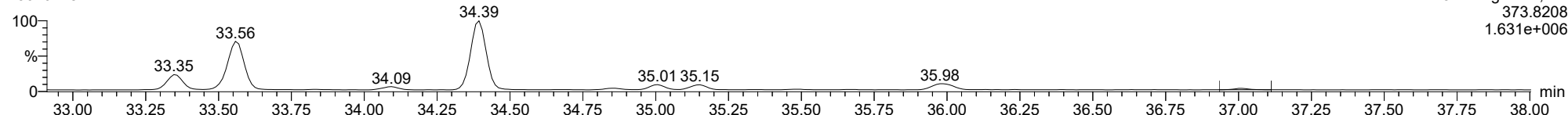
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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

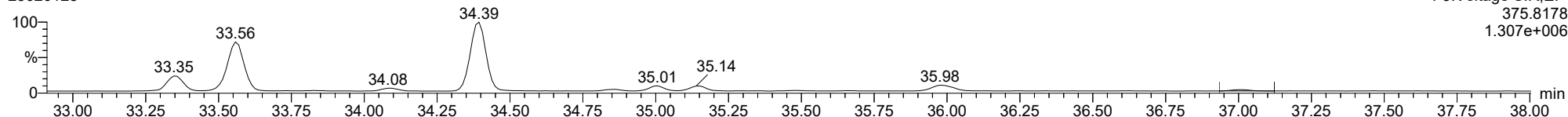
**123789-HxCDF**

23020128



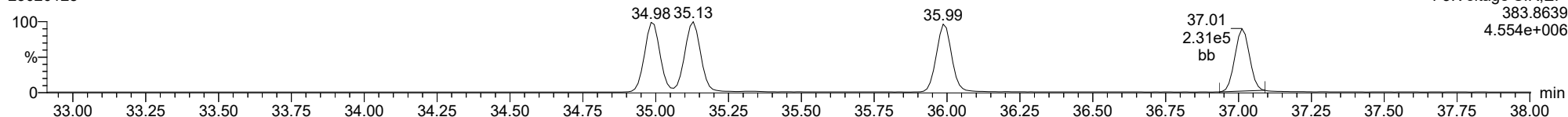
**123789-HxCDF**

23020128



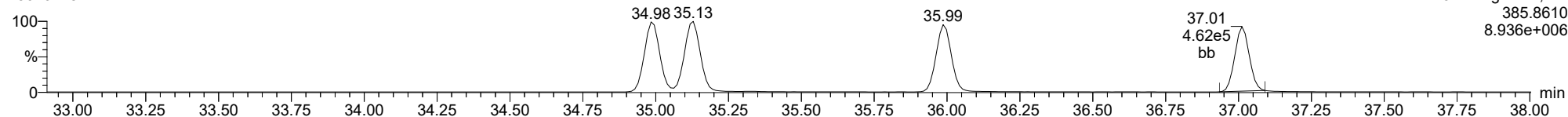
**13C-123789-HxCDF**

23020128



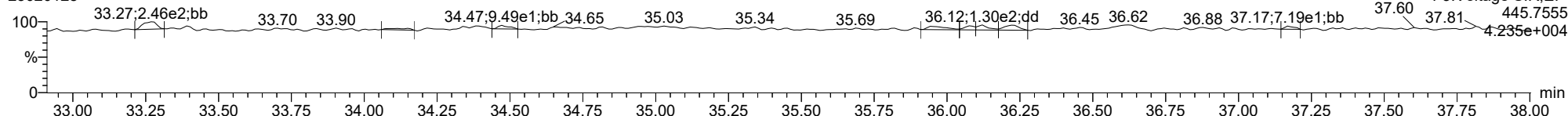
**13C-123789-HxCDF**

23020128



**FUNCTION3 OCDPE**

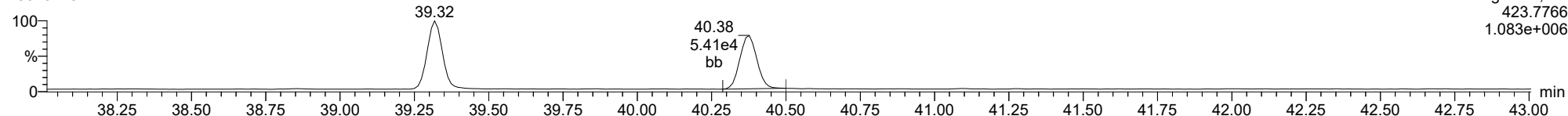
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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

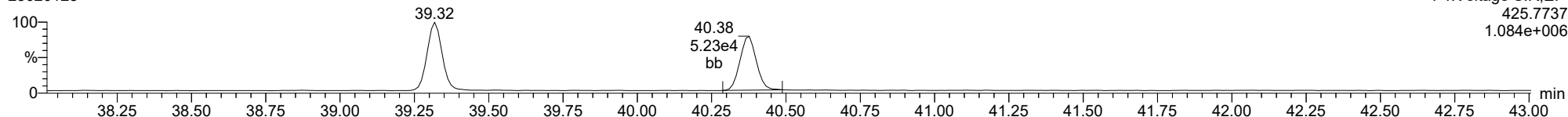
**1234678-HpCDD**

23020128



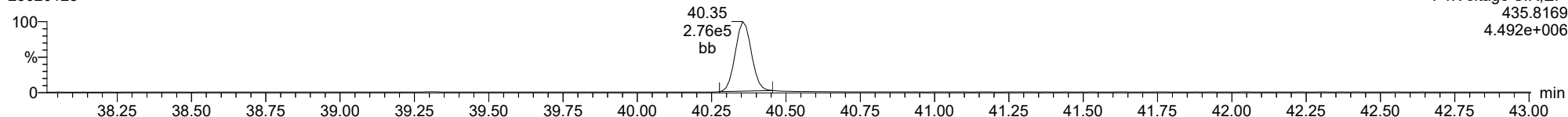
**1234678-HpCDD**

23020128



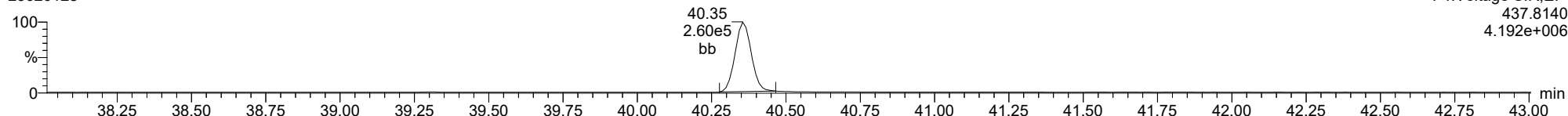
**13C-1234678-HpCDD**

23020128



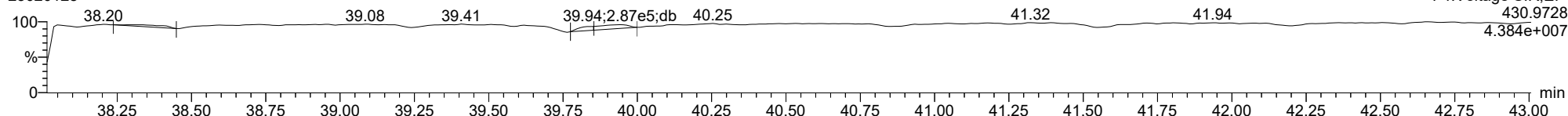
**13C-1234678-HpCDD**

23020128



**FUNCTION4 PFK**

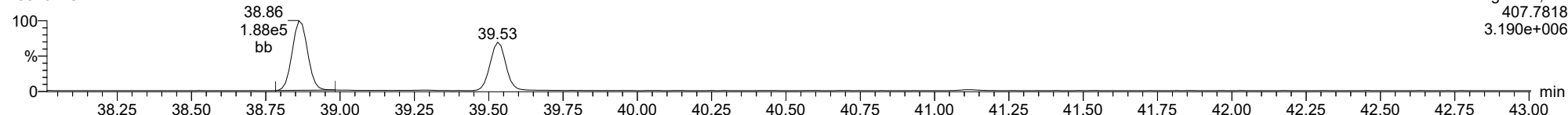
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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

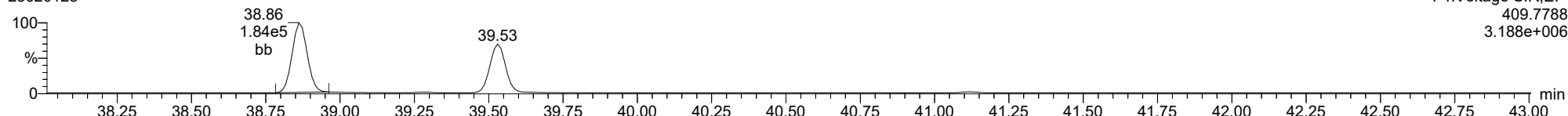
**1234678-HpCDF**

23020128



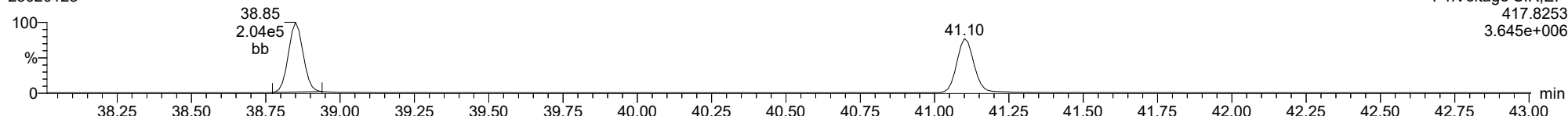
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23020128



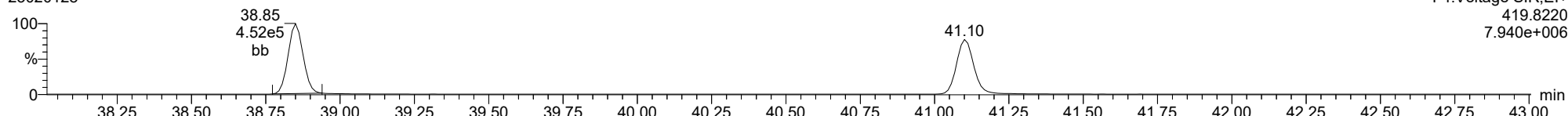
**13C-1234678-HpCDF**

23020128



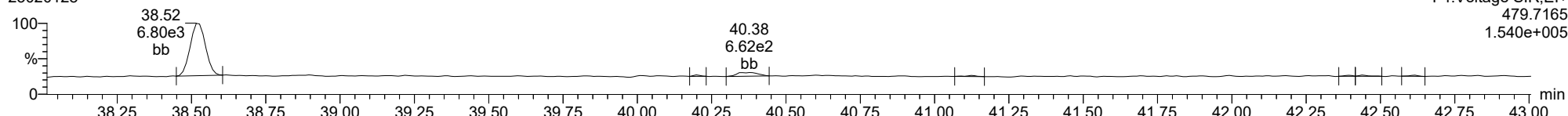
**13C-1234678-HpCDF**

23020128



**FUNCTION4 NCDPE**

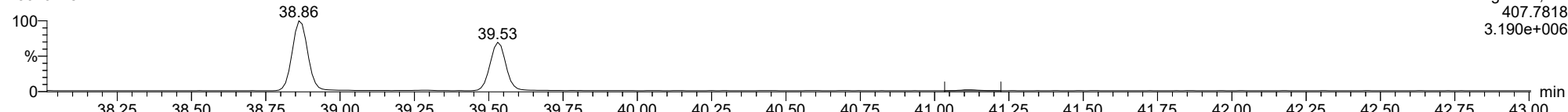
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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

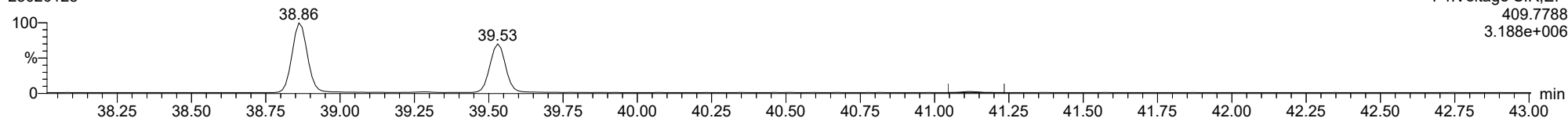
**1234789-HpCDF**

23020128



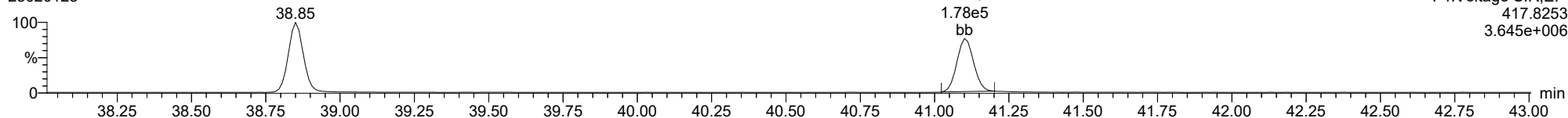
**1234789-HpCDF**

23020128



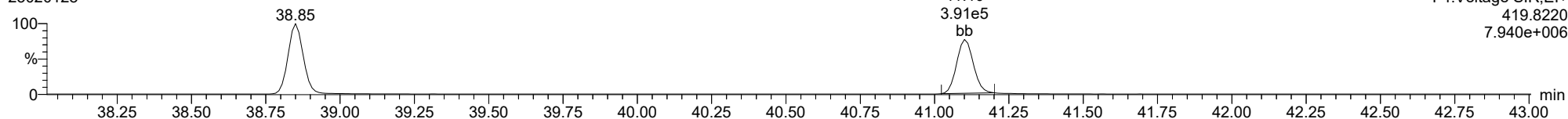
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23020128



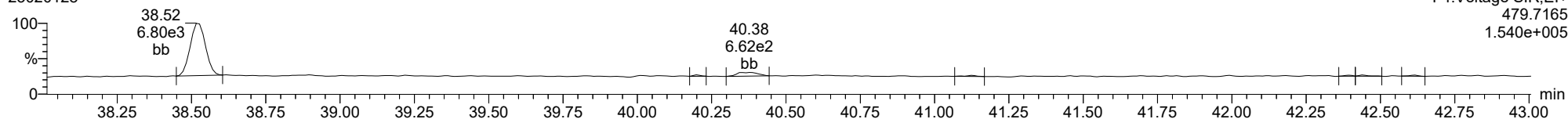
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23020128



**FUNCTION4 NCDPE**

23020128

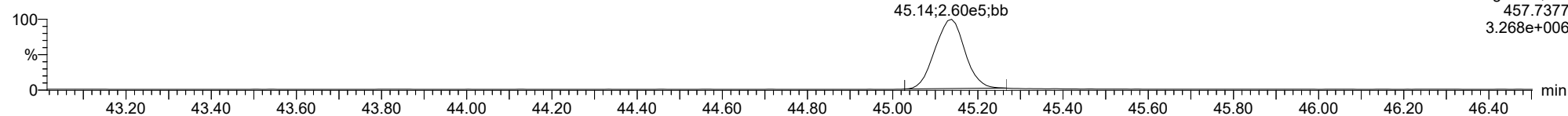




ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

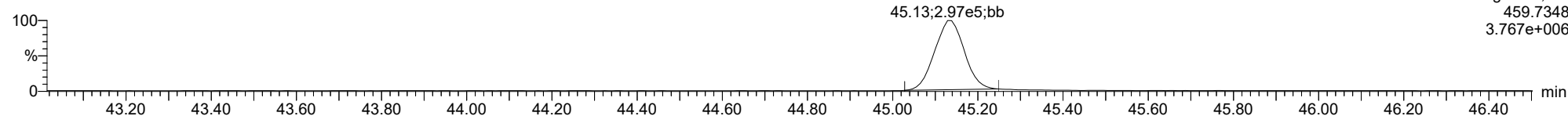
**OCDD**

23020128



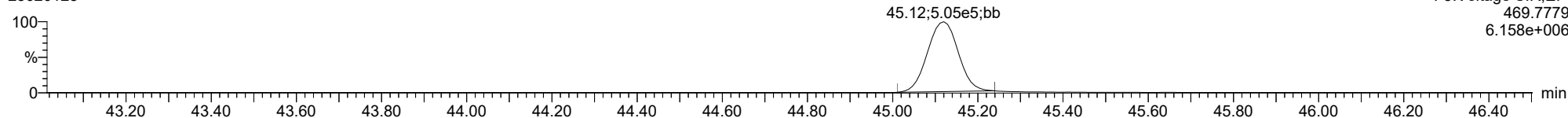
**OCDD**

23020128



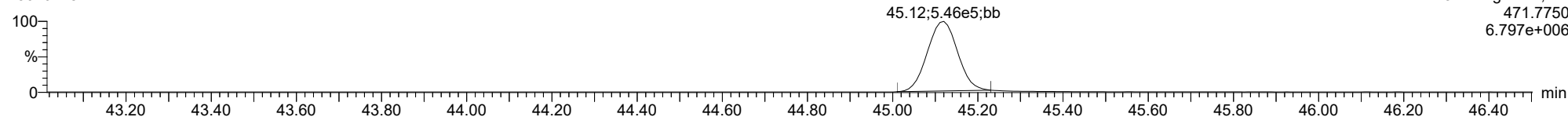
**13C-OCDD**

23020128



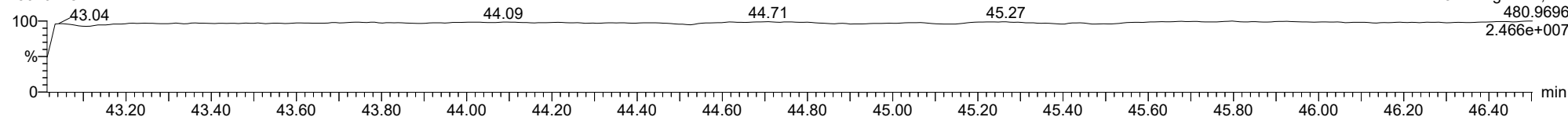
**13C-OCDD**

23020128

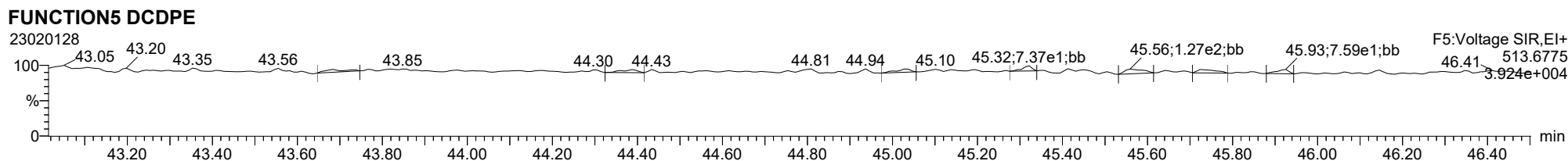
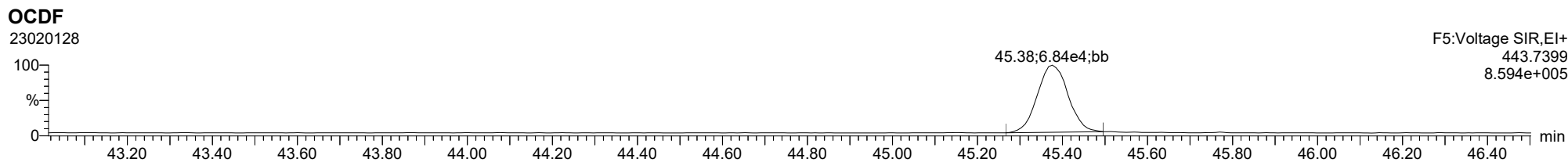
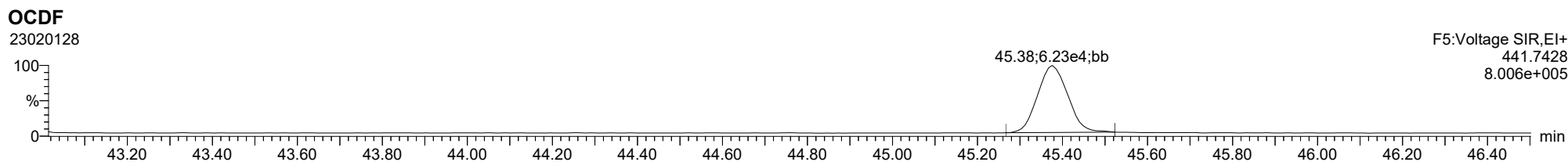


**FUNCTION5 PFK**

23020128



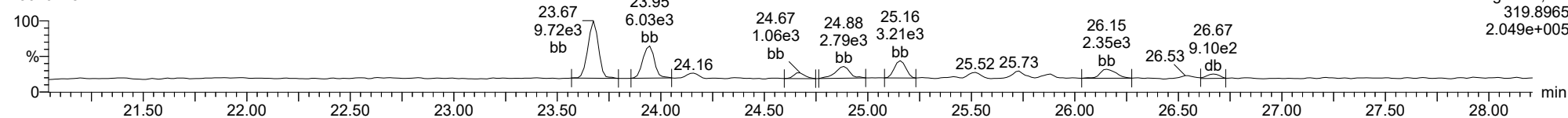
ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk



ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

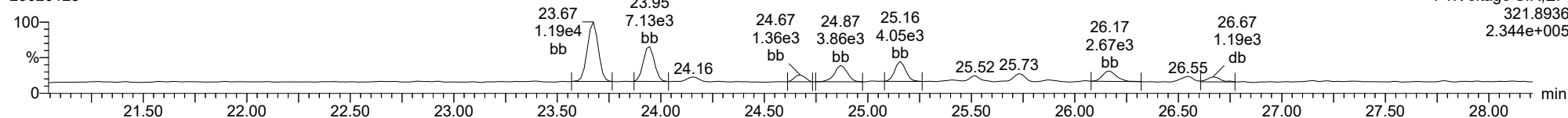
### Total-tetradoxins

23020128



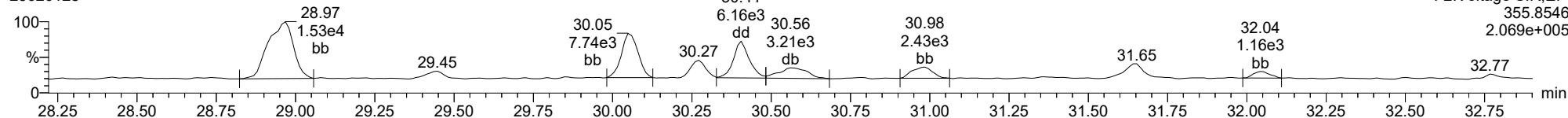
### Total-tetradoxins

23020128



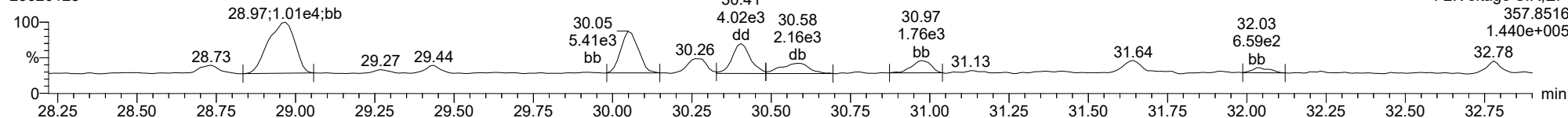
### Total-pentadoxins

23020128



### Total-pentadoxins

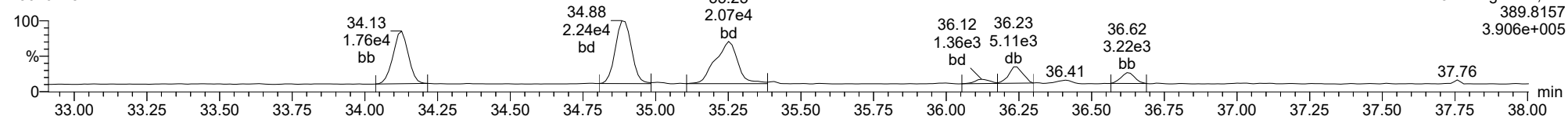
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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

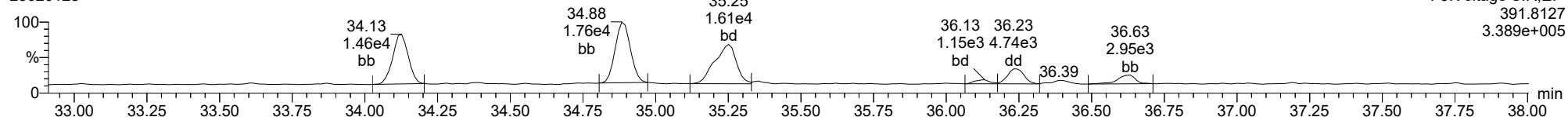
### Total-hexadioxins

23020128



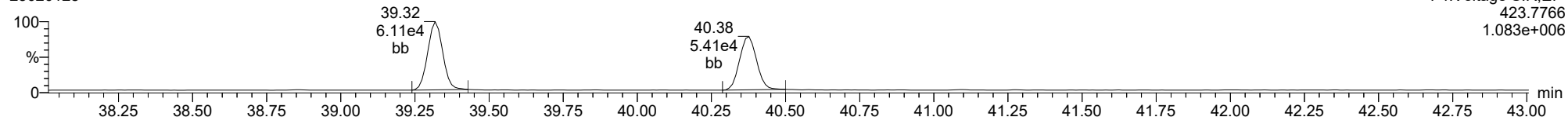
### Total-hexadioxins

23020128



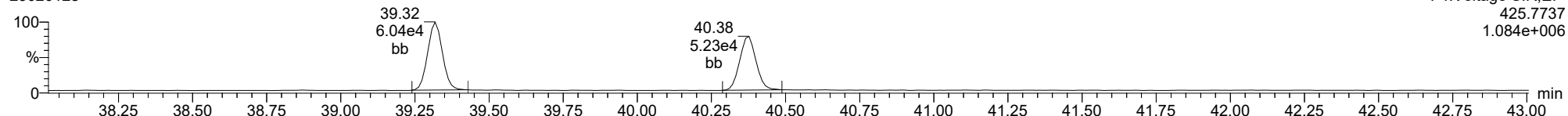
### Total-heptadioxins

23020128



### Total-heptadioxins

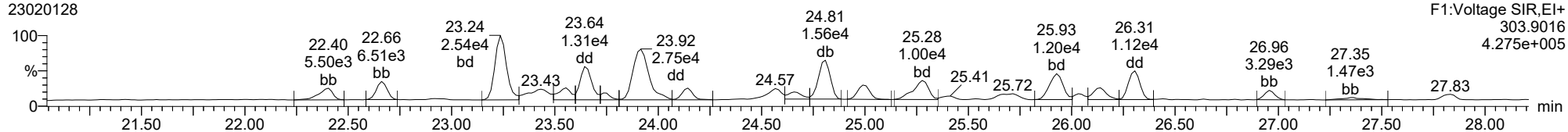
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ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

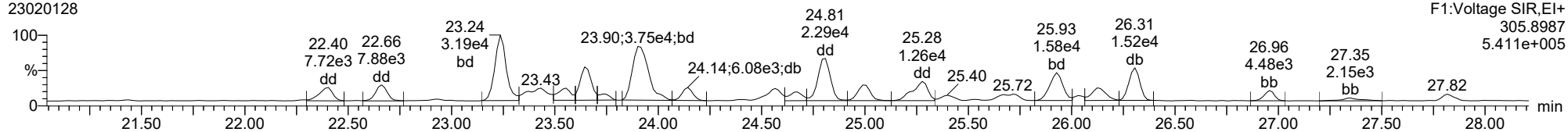
**Total-tetrafurans**

23020128



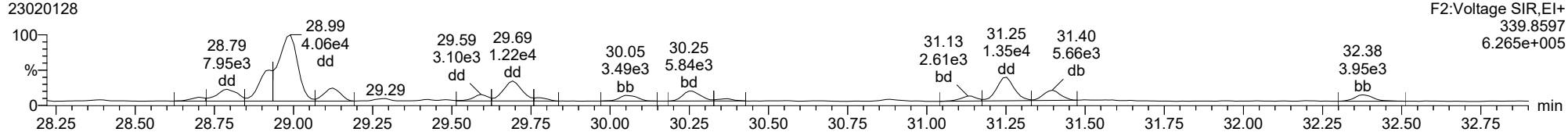
**Total-tetrafurans**

23020128



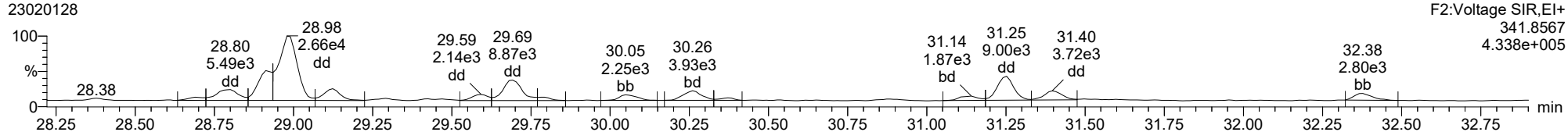
**Total-pentafurans**

23020128



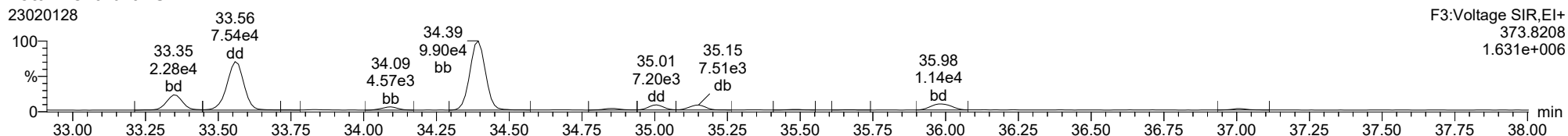
**Total-pentafurans**

23020128

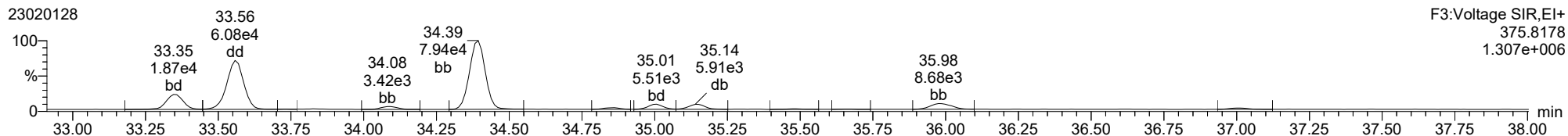


ID: 22L0246-43, Name: 23020128, Date: 02-Feb-2023, Time: 11:26:39, Conditions: AUTOSPEC01, User: pk

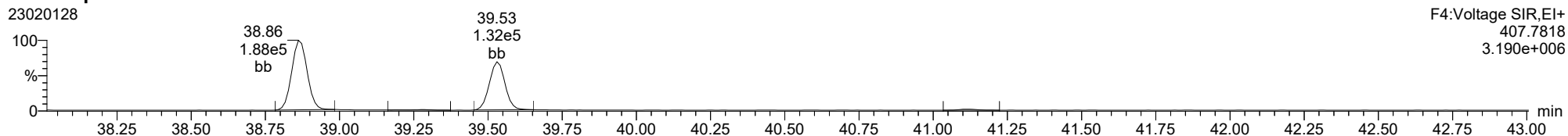
**Total-hexafurans**



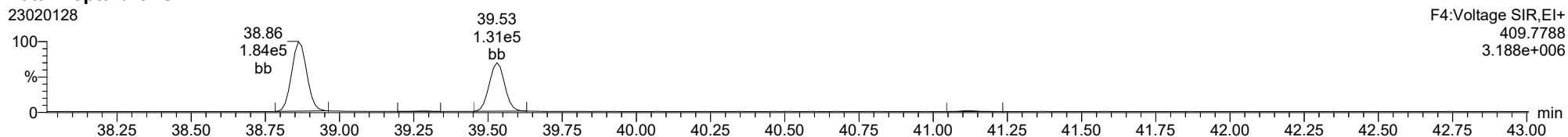
**Total-hexafurans**



**Total-heptafurans**



**Total-heptafurans**





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-44 A File ID: 23020129  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 12:16  
 % Solids: 48.53 Preparation: EPA 1613 Initial/Final: 20.64 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1		0.655-0.886	2.20	0.998	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1		0.655-0.886	1.79	0.998	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1		1.318-1.783	2.20	0.998	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1		1.318-1.783	2.23	0.998	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1		1.318-1.783	1.93	0.998	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1		1.054-1.426	1.37	0.998	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.420	1.054-1.426	1.28	0.998	1.69	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1		1.054-1.426	1.39	0.998	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1		1.054-1.426	1.52	0.998	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1		1.054-1.426	1.90	0.998	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1		1.054-1.426	1.79	0.998	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1		1.054-1.426	1.88	0.998	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.873	0.893-1.208	1.35	0.998	4.65	ng/kg	EMPC, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1		0.893-1.208	1.77	0.998	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.712	0.893-1.208	2.70	2.50	6.66	ng/kg	EMPC, B
39001-02-0	OCDF	1	0.847	0.757-1.024	2.66	2.50	13.3	ng/kg	B
3268-87-9	OCDD	1	0.806	0.757-1.024	2.37	9.98	46.1	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			0.998	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.998	7.04	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.998	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.998	1.69	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.998	ND	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.998	ND	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.998	4.98	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.300  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 3.14



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-44</u>
Sampled:	<u>12/09/22 11:44</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>48.53</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020129</u>
		Analyzed:	<u>02/02/23 12:16</u>
		Initial/Final:	<u>20.64 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.776	0.655-0.886	0.501	16.0	24 - 169 %	*
13C12-2,3,7,8-TCDD		0.829	0.655-0.886	0.552	19.9	25 - 164 %	*
13C12-1,2,3,7,8-PeCDF		1.508	1.318-1.783	0.287	18.7	24 - 185 %	*
13C12-2,3,4,7,8-PeCDF		1.517	1.318-1.783	0.299	18.6	21 - 178 %	*
13C12-1,2,3,7,8-PeCDD		1.594	1.318-1.783	0.539	19.9	25 - 181 %	*
13C12-1,2,3,4,7,8-HxCDF		0.508	0.434-0.587	0.380	19.1	26 - 152 %	*
13C12-1,2,3,6,7,8-HxCDF		0.551	0.434-0.587	0.370	18.3	26 - 123 %	*
13C12-2,3,4,6,7,8-HxCDF		0.516	0.434-0.587	0.394	19.1	28 - 136 %	*
13C12-1,2,3,7,8,9-HxCDF		0.486	0.434-0.587	0.431	19.0	29 - 147 %	*
13C12-1,2,3,4,7,8-HxCDD		1.268	1.054-1.426	0.369	20.3	32 - 141 %	*
13C12-1,2,3,6,7,8-HxCDD		1.304	1.054-1.426	0.357	19.9	28 - 130 %	*
13C12-1,2,3,4,6,7,8-HpCDF		0.449	0.374-0.506	0.358	17.2	28 - 143 %	*
13C12-1,2,3,4,7,8,9-HpCDF		0.453	0.374-0.506	0.410	17.8	26 - 138 %	*
13C12-1,2,3,4,6,7,8-HpCDD		1.089	0.893-1.208	0.473	18.8	23 - 140 %	*
13C12-OCDD		0.910	0.757-1.024	0.418	19.0	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.223	24.0	35 - 197 %	*

\* Values outside of QC limits



Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:54 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
**Calibration:** T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

**ID:** 22L0246-44, **Name:** 23020129, **Date:** 02-Feb-2023, **Time:** 12:16:09, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.876		0.770	1435	1684								
12378-PeCDF					0.845		1.550	1356	1891								
23478-PeCDF					0.911		1.550	1356	1891								
123478-HxCDF					1.182		1.240	1211	1118								
234678-HxCDF					1.229		1.240	1211	1118								
123678-HxCDF	35.106	1.000	3.152e2	2.220e2	1.248	1.420	1.240	1211	1118	4.44e3	3.49e3	3.7	3.1	NO	bb	MM	0.847
123789-HxCDF					1.187		1.240	1211	1118								
1234678-HpCDF	38.839	1.000	5.989e2	6.864e2	1.204	0.873	1.050	939	1208	1.13e4	1.03e4	12.0	8.6	YES	bb	bb	2.329
1234789-HpCDF					1.165		1.050	939	1208								
OCDF	45.348	1.006	1.394e3	1.646e3	1.186	0.847	0.890	1191	1384	2.14e4	2.23e4	18.0	16.1	NO	bb	bb	6.672
2378-TCDD					1.236		0.770	1747	1086								
12378-PeCDD					1.087		1.550	1128	1161								
123478-HxCDD					0.987		1.240	1282	1282								
123678-HxCDD					1.021		1.240	1282	1282								
123789-HxCDD					0.985		1.240	1282	1282								
1234678-HpCDD	40.343	1.000	6.557e2	9.205e2	1.253	0.712	1.050	2142	1097	1.20e4	1.17e4	5.6	10.7	YES	bb	bb	3.337
OCDD	45.101	1.000	4.363e3	5.411e3	1.103	0.806	0.890	1011	1128	5.59e4	6.67e4	55.3	59.1	NO	bb	bb	23.078
13C-2378-TCDF	25.867	1.006	2.836e4	3.652e4	1.768	0.776	0.770	3243	2126	4.24e5	5.47e5	130.8	257.4	NO	bb	bd	15.986
13C-12378-PeCDF	30.026	1.168	3.949e4	2.619e4	1.527	1.508	1.550	1262	1392	6.29e5	3.97e5	498.6	285.1	NO	bb	bb	18.738
13C-23478-PeCDF	31.363	1.220	3.775e4	2.488e4	1.466	1.517	1.550	1262	1392	5.78e5	3.97e5	458.2	285.3	NO	bb	bb	18.607
13C-123478-HxCDF	34.973	0.956	1.741e4	3.423e4	1.054	0.508	0.510	1319	1589	2.91e5	5.57e5	220.3	350.6	NO	bd	MM	19.088
13C-123678-HxCDF	35.106	0.960	1.805e4	3.278e4	1.080	0.551	0.510	1319	1589	3.10e5	5.66e5	234.9	356.3	NO	db	MM	18.331
13C-234678-HxCDF	35.964	0.983	1.689e4	3.274e4	1.014	0.516	0.510	1319	1589	2.77e5	5.58e5	210.1	351.4	NO	bb	bb	19.058
13C-123789-HxCDF	36.989	1.011	1.483e4	3.051e4	0.928	0.486	0.510	1319	1589	2.53e5	5.06e5	191.5	318.6	NO	bb	bb	19.033
13C-1234678-HpCDF	38.827	1.061	1.420e4	3.163e4	1.036	0.449	0.440	1317	1378	2.46e5	5.37e5	186.6	389.8	NO	bb	bb	17.225
13C-1234789-HpCDF	41.078	1.123	1.287e4	2.839e4	0.905	0.453	0.440	1317	1378	1.94e5	4.19e5	147.4	304.0	NO	bb	bb	17.758
13C-1234-TCDD	25.700	0.000	1.015e5	1.281e5	1.000	0.792	0.770	2402	1285	1.60e6	2.01e6	668.1	1565.6	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	2.283e4	2.753e4	1.103	0.829	0.770	2402	1285	3.47e5	4.11e5	144.3	319.6	NO	bb	bb	19.893
13C-12378-PeCDD	31.619	1.230	2.565e4	1.610e4	0.914	1.594	1.550	1639	1347	4.02e5	2.36e5	245.5	175.4	NO	bb	bb	19.895
13C-123478-HxCDD	36.087	0.986	2.718e4	2.143e4	0.933	1.268	1.240	1247	1255	4.58e5	3.63e5	367.7	289.5	NO	bd	bd	20.292
13C-123678-HxCDD	36.198	0.989	2.790e4	2.139e4	0.965	1.304	1.240	1247	1255	4.75e5	3.52e5	381.4	280.9	NO	db	db	19.902
13C-1234678-HpCDD	40.332	1.102	1.966e4	1.805e4	0.782	1.089	1.050	1516	1175	3.00e5	2.80e5	197.6	238.0	NO	bb	bb	18.783
13C-OCDD	45.092	1.232	3.660e4	4.022e4	0.788	0.910	0.890	1175	1222	4.66e5	5.05e5	397.0	413.3	NO	bb	bb	37.959
13C-123789-HxCDD	36.588	0.000	1.440e5	1.128e5	1.000	1.277	1.240	1247	1255	2.44e6	1.90e6	1959.4	1517.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	2.714e4		1.233			1667		4.24e5		254.5			bb		9.584

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:06:54 Pacific Standard Time

ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	1435	1684								
1289-TCDF	27.363	1.058	2.482e2	1.692e2	0.858	1.467	0.770	1435	1684	2.59e3	2.54e3	1.8	1.5	YES	db	bb	0.750
13468-PECDF					1.013		1.550	1161	1324								
12389-PECDF					0.844		1.550	1356	1891								
123468-HXCDF					1.197		1.240	1211	1118								
1368-TCDD					1.084		0.770	1747	1086								
1289-TCDD					0.975		0.770	1747	1086								
12479-PECDD					1.837		1.550	1128	1161								
12389-PECDD					1.252		1.550	1128	1161								
124679-HXCDD					1.033		1.240	1282	1282								
1234679-HPCDD	39.284	0.974	5.924e2	6.161e2	1.286	0.962	1.050	2142	1097	9.52e3	1.23e4	4.4	11.2	NO	bb	bb	2.492
Total-tetrafurans			0.000e0		0.933			1435		0.00e0							
Total-penta1			1.344e3					1161		1.94e4							3.523
Total-pentafurans			0.000e0		0.866			1356		0.00e0							
Total-hexafurans			3.152e2		1.208			1211		4.44e3							0.847
Total-heptafurans			0.000e0		1.185			939		0.00e0							
Total-Furans			3.156e3		1.067			1435		4.65e4							11.390
Total-tetradioxins			0.000e0		1.099			1747		0.00e0							
Total-pentadioxins			0.000e0		1.392			1128		0.00e0							
Total-hexadioxins			0.000e0		1.007			1282		0.00e0							
Total-heptadioxins			5.924e2		1.269			2142		9.52e3							2.492
Total-Dioxins			4.956e3		1.165			1747		6.54e4							25.570
Total-TEQ			8.112e3					1747		1.12e5							36.960
FUNCTION1 PFK			1.765e6					836818		1.71e7							
FUNCTION2 PFK			3.925e5					537943		1.30e7							0.000
FUNCTION3 PFK			3.527e7					438025		2.97e7							0.000
FUNCTION4 PFK			2.295e5					330238		1.64e5							
FUNCTION5 PFK			2.373e5					155868		7.61e6							
FUNCTION1 HXCD...			1.264e3					1065		2.35e4							0.000
FUNCTION1 HPCD...			9.572e2					1131		1.86e4							0.000
FUNCTION2 HPCD...			1.187e3					1363		2.78e4							0.000
FUNCTION3 OCDPE			6.676e2					910		1.52e4							0.000
FUNCTION4 NCDPE			2.210e3					1738		4.71e4							0.000
FUNCTION5 DCDPE			9.183e1					1140		1.81e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:54 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.32	1.344e3	7.787e2		1.73	1.55	16.7	YES	NO	bb	bb	3.523

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.11	3.152e2	2.220e2	1.248	1.42	1.24	3.7	YES	NO	bb	MM	0.847

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.38	1.034e2	1.374e2	1.067	0.75	0.77	0.8	NO	NO	bb	dd	0.348
2	123678-HxCDF	35.11	3.152e2	2.220e2	1.248	1.42	1.24	3.7	YES	NO	bb	MM	0.847
3	OCDF	45.35	1.394e3	1.646e3	1.186	0.85	0.89	18.0	YES	NO	bb	bb	6.672
4	Total-penta1	27.32	1.344e3	7.787e2		1.73	1.55	16.7	YES	NO	bb	bb	3.523

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
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ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.28	5.924e2	6.161e2	1.286	0.96	1.05	4.4	YES	NO	bb	bb	2.492

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.28	5.924e2	6.161e2	1.286	0.96	1.05	4.4	YES	NO	bb	bb	2.492
2	OCDD	45.10	4.363e3	5.411e3	1.103	0.81	0.89	55.3	YES	NO	bb	bb	23.078

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.38	1.034e2	1.374e2	1.067	0.75	0.77	0.8	NO	NO	bb	dd	0.348
2	123678-HxCDF	35.11	3.152e2	2.220e2	1.248	1.42	1.24	3.7	YES	NO	bb	MM	0.847
3	OCDF	45.35	1.394e3	1.646e3	1.186	0.85	0.89	18.0	YES	NO	bb	bb	6.672
4	Total-penta1	27.32	1.344e3	7.787e2		1.73	1.55	16.7	YES	NO	bb	bb	3.523
5	1234679-HPCDD	39.28	5.924e2	6.161e2	1.286	0.96	1.05	4.4	YES	NO	bb	bb	2.492
6	OCDD	45.10	4.363e3	5.411e3	1.103	0.81	0.89	55.3	YES	NO	bb	bb	23.078

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

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ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.29	2.974e4					1.5	NO		bb		
2	FUNCTION1 PFK	25.55	2.451e4					0.7	NO		bb		
3	FUNCTION1 PFK	25.49	1.352e4					0.7	NO		bb		
4	FUNCTION1 PFK	24.78	2.524e4					1.0	NO		bb		
5	FUNCTION1 PFK	24.11	5.427e4					1.5	NO		bb		
6	FUNCTION1 PFK	23.33	7.891e3					0.6	NO		bb		
7	FUNCTION1 PFK	22.27	2.218e5					3.2	YES		bb		
8	FUNCTION1 PFK	21.92	7.378e3					0.6	NO		bb		
9	FUNCTION1 PFK	21.59	2.227e5					1.8	NO		bb		
10	FUNCTION1 PFK	21.39	3.193e5					4.5	YES		db		
11	FUNCTION1 PFK	21.25	8.390e5					4.3	YES		bd		

## PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.62	2.796e3					0.5	NO		bb		0.000
2	FUNCTION2 PFK	28.47	1.282e4					0.6	NO		bb		0.000
3	FUNCTION2 PFK	28.42	9.945e3					0.9	NO		bb		0.000
4	FUNCTION2 PFK	32.57	3.230e4					1.6	NO		bd		0.000
5	FUNCTION2 PFK	31.88	6.597e3					0.7	NO		bb		0.000
6	FUNCTION2 PFK	31.11	3.555e3					0.6	NO		bb		0.000
7	FUNCTION2 PFK	31.06	2.212e4					1.3	NO		bb		0.000
8	FUNCTION2 PFK	31.00	5.252e4					2.3	NO		bb		0.000
9	FUNCTION2 PFK	30.79	1.502e4					1.2	NO		db		0.000
10	FUNCTION2 PFK	30.75	1.095e4					1.0	NO		bd		0.000
11	FUNCTION2 PFK	30.45	1.066e4					1.0	NO		bb		0.000
12	FUNCTION2 PFK	30.06	2.104e4					1.5	NO		db		0.000
13	FUNCTION2 PFK	30.01	2.553e4					1.8	NO		bd		0.000
14	FUNCTION2 PFK	29.96	1.994e4					0.9	NO		bb		0.000
15	FUNCTION2 PFK	29.79	2.879e3					0.5	NO		db		0.000
16	FUNCTION2 PFK	29.76	9.595e3					0.8	NO		dd		0.000
17	FUNCTION2 PFK	29.69	2.580e4					1.4	NO		bd		0.000
18	FUNCTION2 PFK	29.51	1.456e4					1.1	NO		bb		0.000
19	FUNCTION2 PFK	29.18	8.842e3					0.8	NO		bb		0.000
20	FUNCTION2 PFK	32.73	4.986e4					2.1	NO		bb		0.000
21	FUNCTION2 PFK	32.62	3.516e4					1.7	NO		db		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:54 Pacific Standard Time

ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.41	4.866e6					10.6	YES		bb		0.000
2	FUNCTION3 PFK	36.23	3.649e6					10.1	YES		bb		0.000
3	FUNCTION3 PFK	33.55	2.676e7					47.1	YES		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.06	2.295e5					0.5	NO		bb		

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:54 Pacific Standard Time

ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

## PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.83	1.844e4					1.6	NO		db		
2	FUNCTION5 PFK	43.76	8.552e3					1.8	NO		bd		
3	FUNCTION5 PFK	43.67	3.446e3					1.1	NO		bb		
4	FUNCTION5 PFK	43.47	1.108e4					1.9	NO		bb		
5	FUNCTION5 PFK	43.35	4.470e3					1.2	NO		bb		
6	FUNCTION5 PFK	43.22	9.801e3					2.1	NO		bb		
7	FUNCTION5 PFK	43.12	1.161e4					1.5	NO		bb		
8	FUNCTION5 PFK	44.98	6.313e3					1.5	NO		db		
9	FUNCTION5 PFK	44.94	1.636e4					2.4	NO		bd		
10	FUNCTION5 PFK	44.84	1.014e4					1.4	NO		bb		
11	FUNCTION5 PFK	44.66	1.724e3					0.7	NO		bb		
12	FUNCTION5 PFK	44.57	2.154e3					0.8	NO		bb		
13	FUNCTION5 PFK	44.48	4.246e3					1.0	NO		bb		
14	FUNCTION5 PFK	44.44	1.777e3					0.7	NO		bb		
15	FUNCTION5 PFK	44.40	6.537e2					0.5	NO		bb		
16	FUNCTION5 PFK	44.37	1.303e3					0.5	NO		bb		
17	FUNCTION5 PFK	44.31	6.720e3					1.7	NO		bb		
18	FUNCTION5 PFK	44.26	2.623e3					1.4	NO		bb		
19	FUNCTION5 PFK	44.22	3.750e3					1.6	NO		bb		
20	FUNCTION5 PFK	44.19	1.107e4					2.3	NO		bb		
21	FUNCTION5 PFK	44.05	5.697e3					1.7	NO		db		
22	FUNCTION5 PFK	43.98	4.305e3					1.0	NO		dd		
23	FUNCTION5 PFK	43.95	9.243e3					1.8	NO		bd		
24	FUNCTION5 PFK	46.41	8.877e3					1.4	NO		bb		
25	FUNCTION5 PFK	46.33	1.525e3					0.5	NO		bb		
26	FUNCTION5 PFK	46.29	5.426e2					0.4	NO		bb		
27	FUNCTION5 PFK	46.24	1.125e3					0.5	NO		bb		
28	FUNCTION5 PFK	46.09	4.994e3					1.1	NO		bb		
29	FUNCTION5 PFK	46.03	7.772e3					1.9	NO		db		
30	FUNCTION5 PFK	46.00	7.451e3					2.0	NO		dd		
31	FUNCTION5 PFK	45.95	4.888e3					1.5	NO		bd		
32	FUNCTION5 PFK	45.83	2.991e3					0.9	NO		bb		
33	FUNCTION5 PFK	45.65	1.149e4					1.5	NO		bb		
34	FUNCTION5 PFK	45.55	1.640e4					2.4	NO		db		
35	FUNCTION5 PFK	45.49	4.589e3					1.3	NO		bd		
36	FUNCTION5 PFK	45.20	6.345e3					0.7	NO		bb		
37	FUNCTION5 PFK	45.05	2.832e3					0.9	NO		bb		

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:54 Pacific Standard Time

ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

## ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.18	9.501e1					1.6	NO		bb		0.000
2	FUNCTION1 HXCD...	27.80	1.386e2					3.5	YES		bb		0.000
3	FUNCTION1 HXCD...	27.65	7.374e1					1.5	NO		bb		0.000
4	FUNCTION1 HXCD...	27.29	7.683e1					1.4	NO		bb		0.000
5	FUNCTION1 HXCD...	26.94	1.494e2					1.9	NO		bb		0.000
6	FUNCTION1 HXCD...	26.27	2.027e2					2.8	NO		db		0.000
7	FUNCTION1 HXCD...	26.21	8.260e1					1.9	NO		bd		0.000
8	FUNCTION1 HXCD...	25.20	1.247e2					2.1	NO		bb		0.000
9	FUNCTION1 HXCD...	23.92	1.220e2					1.9	NO		bb		0.000
10	FUNCTION1 HXCD...	22.33	1.183e2					1.7	NO		bb		0.000
11	FUNCTION1 HXCD...	22.21	7.986e1					1.8	NO		bb		0.000

## ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	22.86	1.034e2					2.4	NO		db		0.000
2	FUNCTION1 HPCD...	22.77	1.058e2					1.6	NO		bd		0.000
3	FUNCTION1 HPCD...	22.31	1.112e2					1.9	NO		bb		0.000
4	FUNCTION1 HPCD...	21.81	7.619e1					1.5	NO		bb		0.000
5	FUNCTION1 HPCD...	21.47	1.148e2					1.6	NO		bb		0.000
6	FUNCTION1 HPCD...	28.06	7.911e1					1.3	NO		bb		0.000
7	FUNCTION1 HPCD...	27.36	9.224e1					1.2	NO		bb		0.000
8	FUNCTION1 HPCD...	27.17	8.827e1					1.7	NO		bb		0.000
9	FUNCTION1 HPCD...	24.16	8.247e1					1.6	NO		bb		0.000
10	FUNCTION1 HPCD...	23.75	1.037e2					1.6	NO		bb		0.000



Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

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ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.50	1.089e2					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	31.07	8.859e1					1.5	NO		bb		0.000
3	FUNCTION2 HPCD...	30.07	7.874e1					1.7	NO		bb		0.000
4	FUNCTION2 HPCD...	29.58	1.954e2					2.3	NO		bb		0.000
5	FUNCTION2 HPCD...	28.74	9.668e1					1.9	NO		db		0.000
6	FUNCTION2 HPCD...	28.69	9.058e1					1.7	NO		dd		0.000
7	FUNCTION2 HPCD...	28.63	1.079e2					2.0	NO		dd		0.000
8	FUNCTION2 HPCD...	28.59	8.167e1					2.2	NO		dd		0.000
9	FUNCTION2 HPCD...	28.51	1.168e2					1.5	NO		bd		0.000
10	FUNCTION2 HPCD...	28.29	1.194e2					2.1	NO		bb		0.000
11	FUNCTION2 HPCD...	31.71	1.026e2					1.8	NO		bb		0.000

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.12	7.798e1					2.0	NO		bb		0.000
2	FUNCTION3 OCDPE	36.84	7.383e1					1.8	NO		bb		0.000
3	FUNCTION3 OCDPE	35.75	1.364e2					2.9	NO		bb		0.000
4	FUNCTION3 OCDPE	35.34	1.238e2					3.8	YES		bb		0.000
5	FUNCTION3 OCDPE	34.28	1.022e2					3.2	YES		bb		0.000
6	FUNCTION3 OCDPE	33.13	1.534e2					3.0	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:06:54 Pacific Standard Time

ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.93	7.365e1					1.0	NO		bb		0.000
2	FUNCTION4 NCDPE	39.43	1.869e2					1.3	NO		db		0.000
3	FUNCTION4 NCDPE	39.37	1.092e2					1.6	NO		bd		0.000
4	FUNCTION4 NCDPE	38.49	5.060e2					4.4	YES		bb		0.000
5	FUNCTION4 NCDPE	38.23	9.520e1					1.4	NO		bb		0.000
6	FUNCTION4 NCDPE	38.09	1.088e2					1.3	NO		db		0.000
7	FUNCTION4 NCDPE	38.05	8.831e1					1.4	NO		bd		0.000
8	FUNCTION4 NCDPE	42.97	1.418e2					2.0	NO		bb		0.000
9	FUNCTION4 NCDPE	42.87	2.397e2					4.8	YES		bb		0.000
10	FUNCTION4 NCDPE	41.07	7.333e1					1.0	NO		db		0.000
11	FUNCTION4 NCDPE	40.97	2.037e2					2.4	NO		dd		0.000
12	FUNCTION4 NCDPE	40.90	7.701e1					1.3	NO		dd		0.000
13	FUNCTION4 NCDPE	40.82	9.238e1					1.2	NO		dd		0.000
14	FUNCTION4 NCDPE	40.72	9.734e1					0.9	NO		bd		0.000
15	FUNCTION4 NCDPE	40.44	1.165e2					1.2	NO		bb		0.000

**ETHERS6**

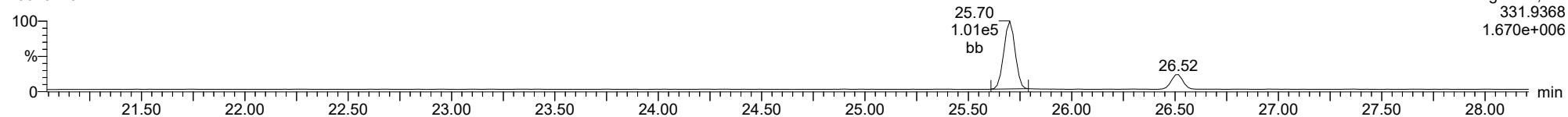
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.82	9.183e1					1.6	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

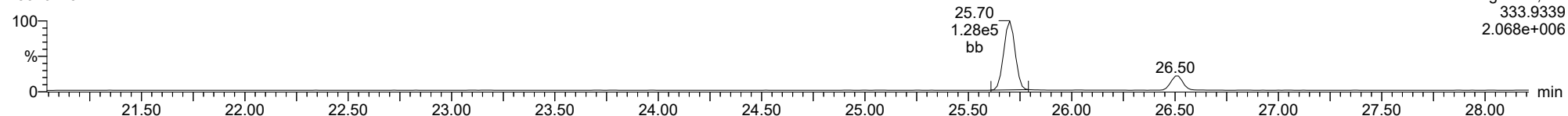
**13C-1234-TCDD**

23020129



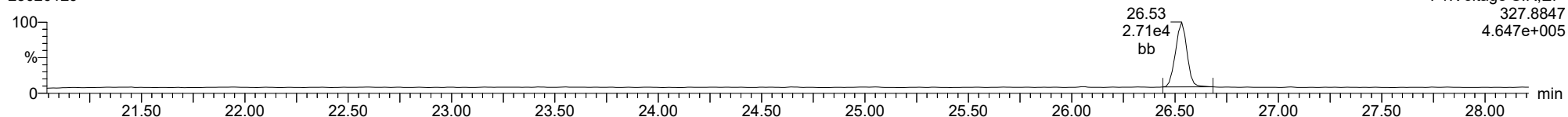
**13C-1234-TCDD**

23020129



**37CL-2378-TCDD**

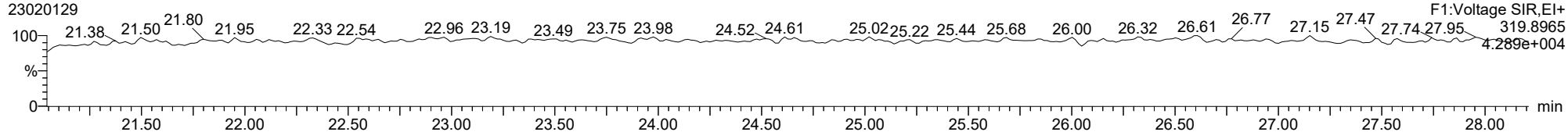
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ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

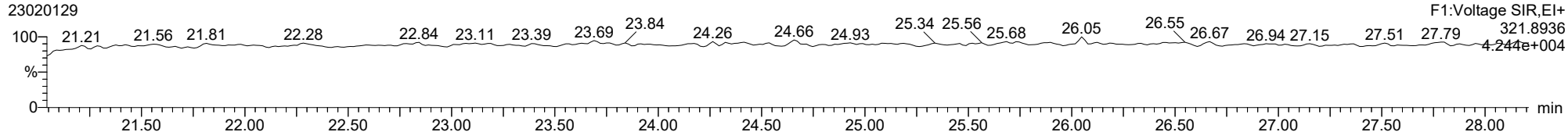
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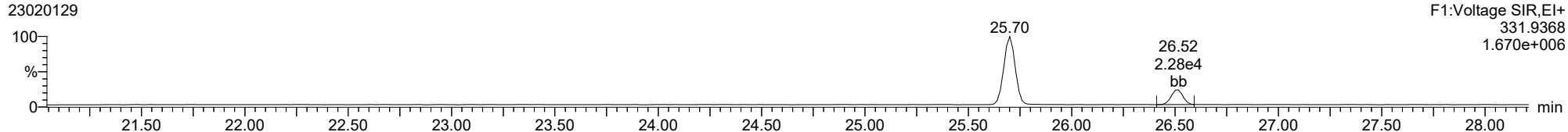
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23020129



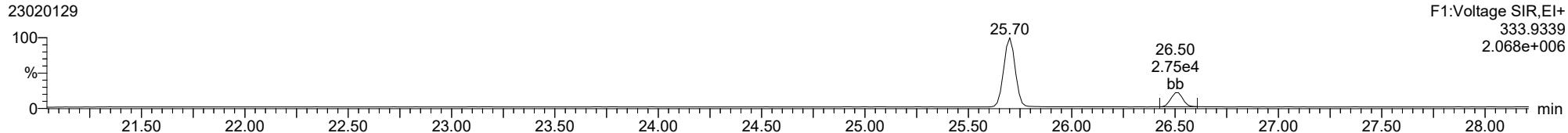
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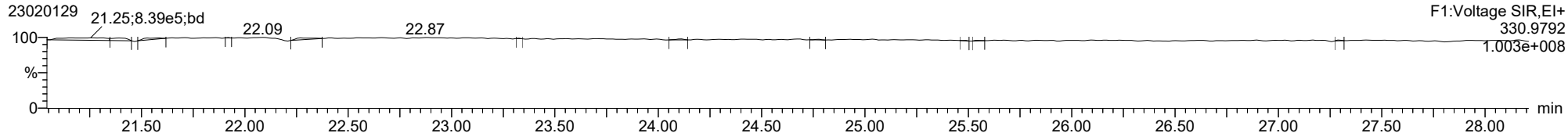
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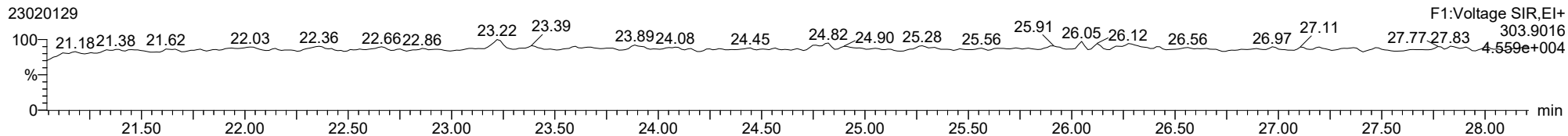
**FUNCTION1 PFK**

23020129

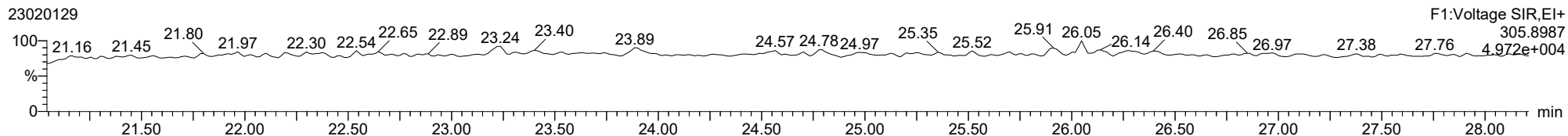


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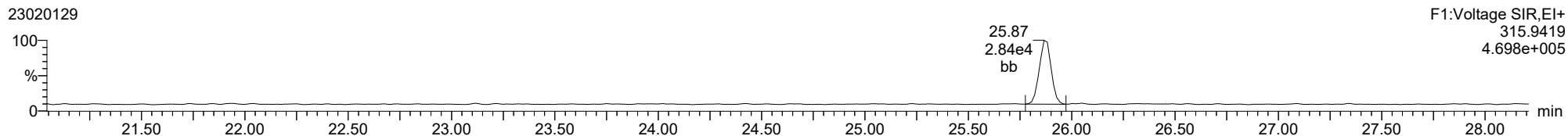
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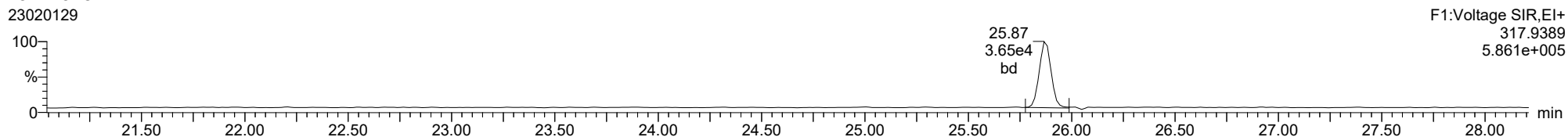
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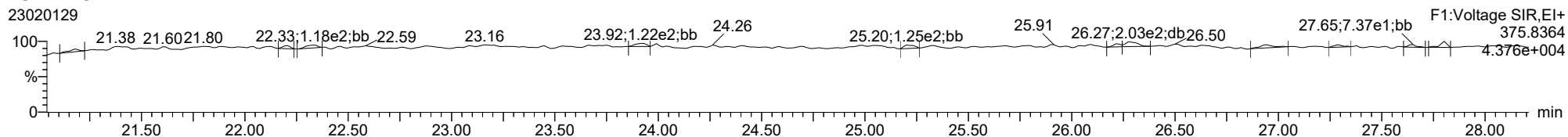
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**13C-2378-TCDF**



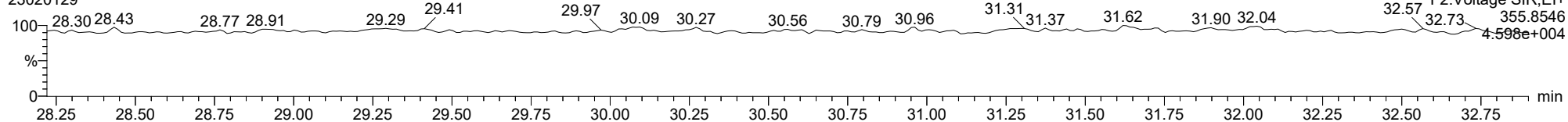
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ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

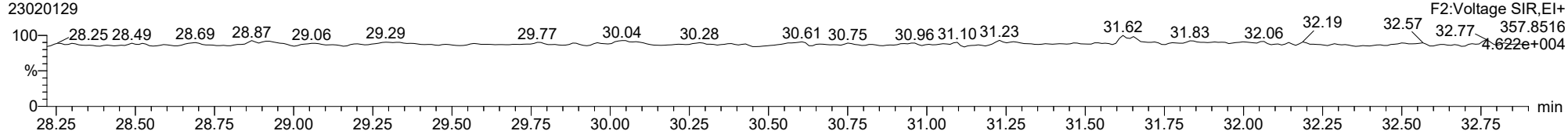
**12378-PeCDD**

23020129



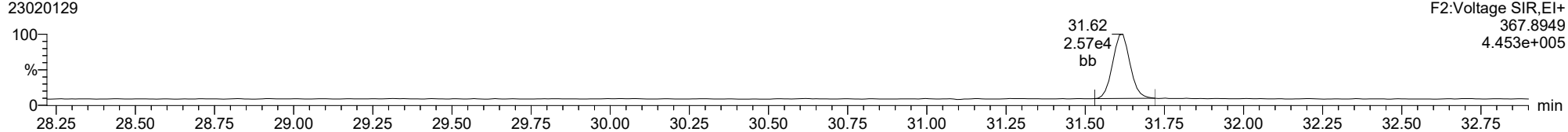
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23020129



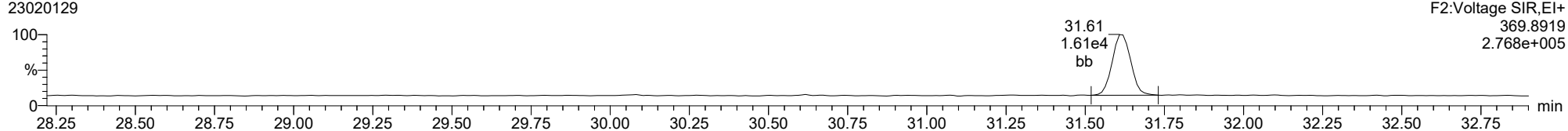
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23020129



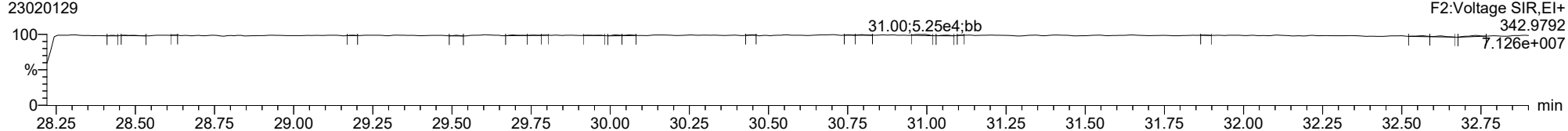
**13C-12378-PeCDD**

23020129



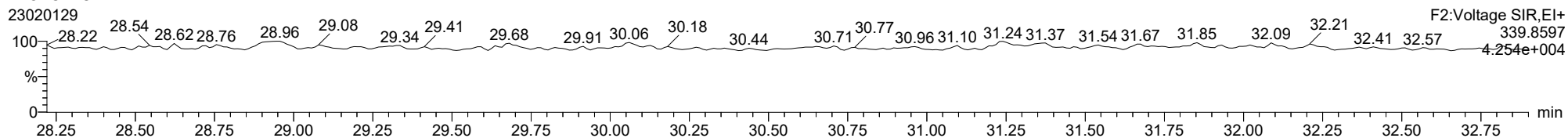
**FUNCTION2 PFK**

23020129

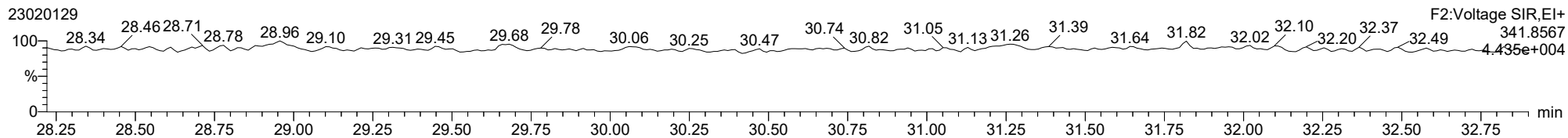


ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

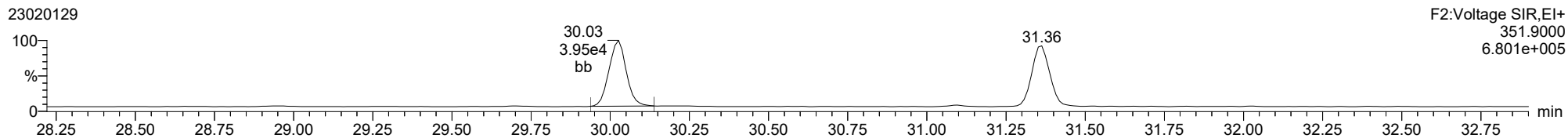
12378-PeCDF



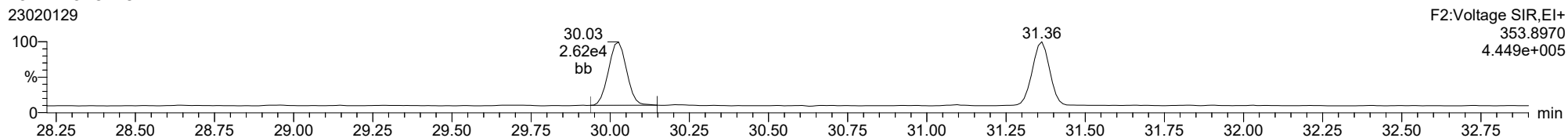
12378-PeCDF



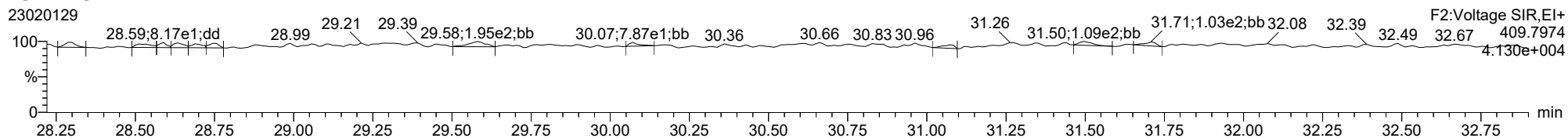
13C-12378-PeCDF



13C-12378-PeCDF

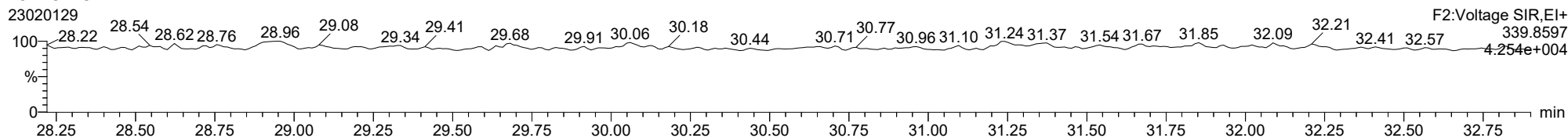


FUNCTION2 HPCDPE

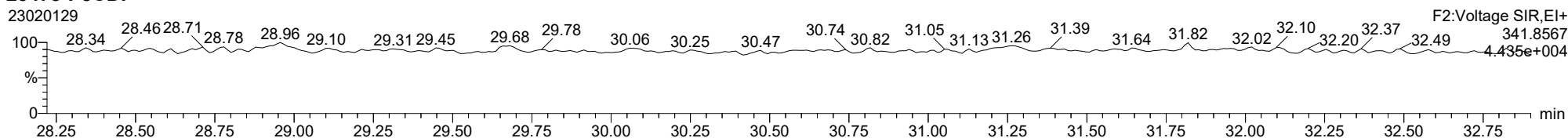


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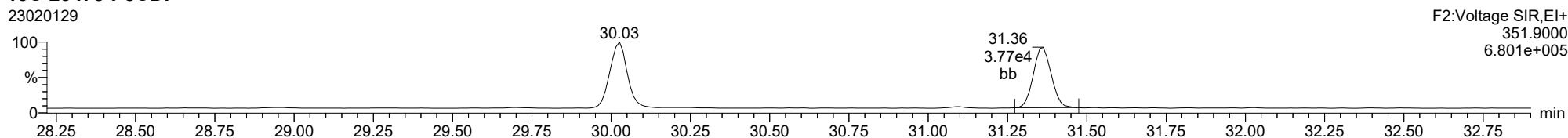
23478-PeCDF



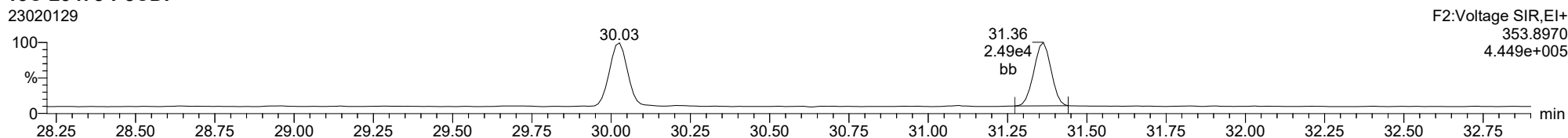
23478-PeCDF



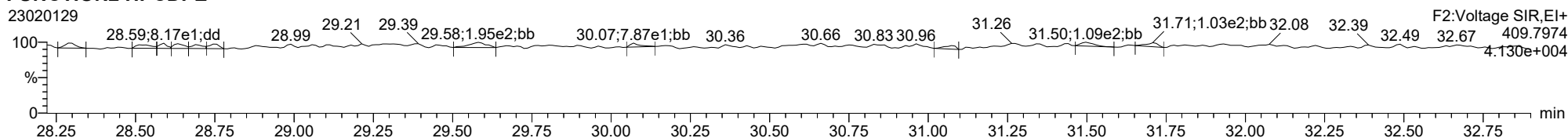
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13C-23478-PeCDF



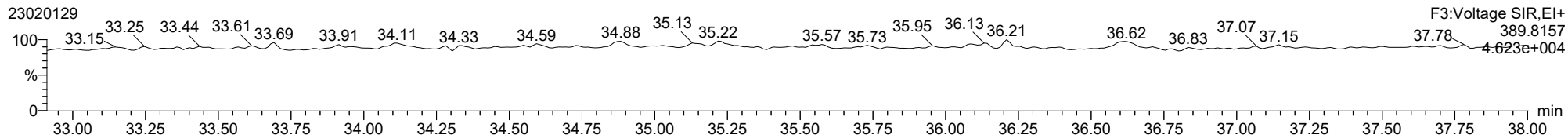
FUNCTION2 HPCDPE



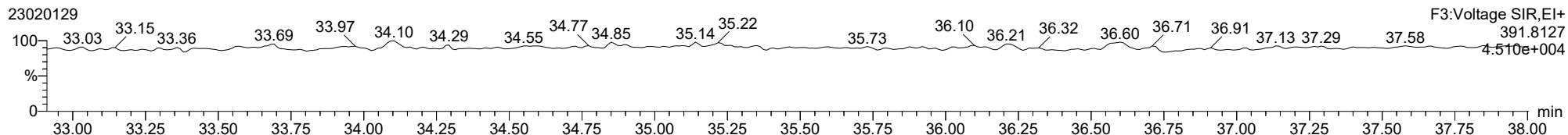


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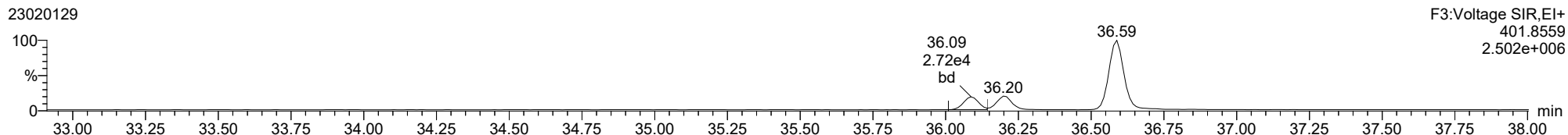
**123478-HxCDD**



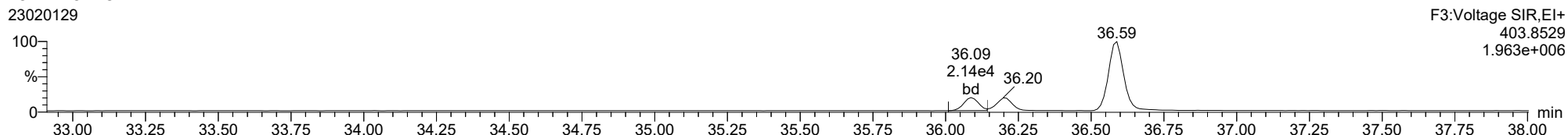
**123478-HxCDD**



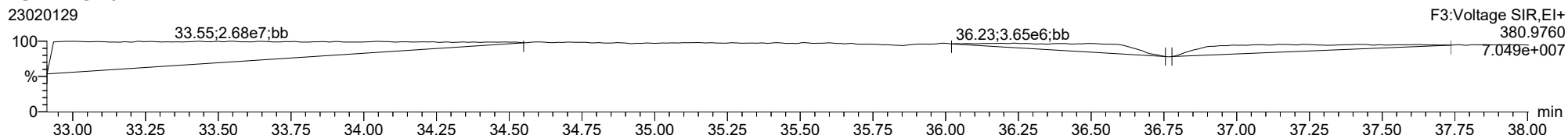
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**13C-123478-HxCDD**

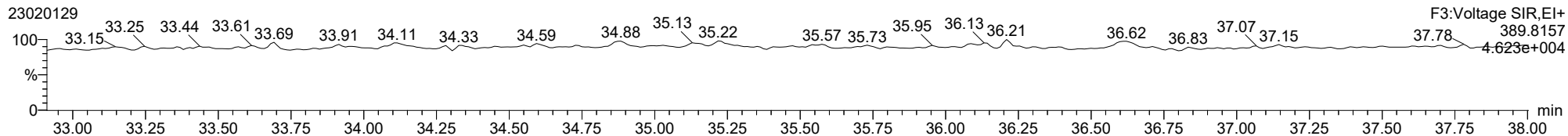


**FUNCTION3 PFK**

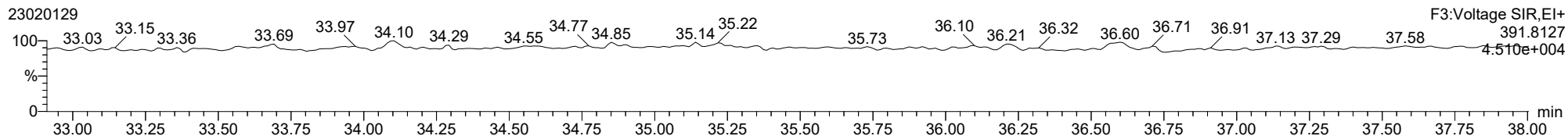


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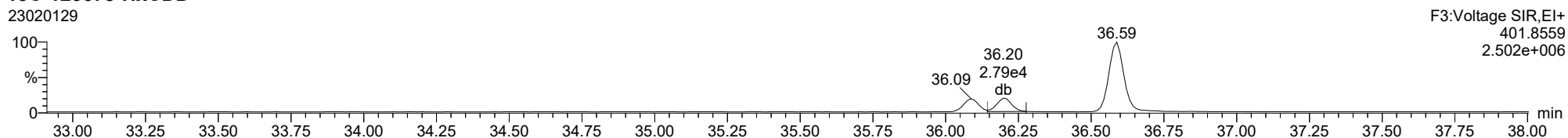
123678-HxCDD



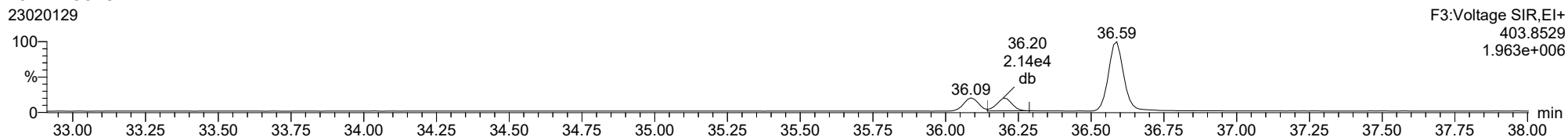
123678-HxCDD



13C-123678-HxCDD

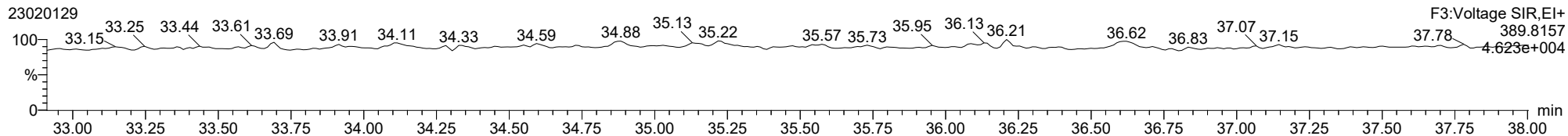


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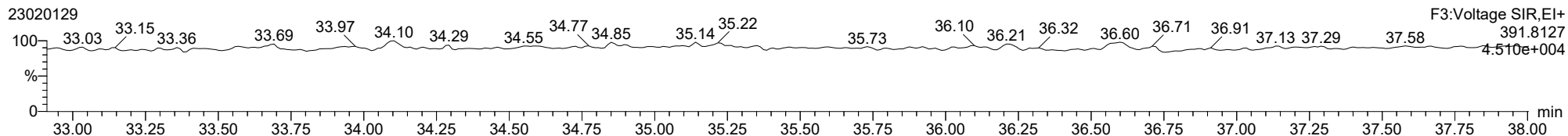


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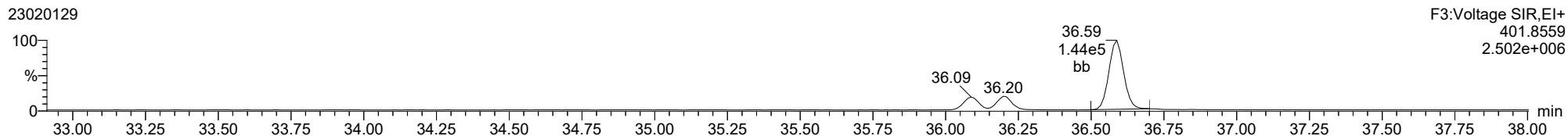
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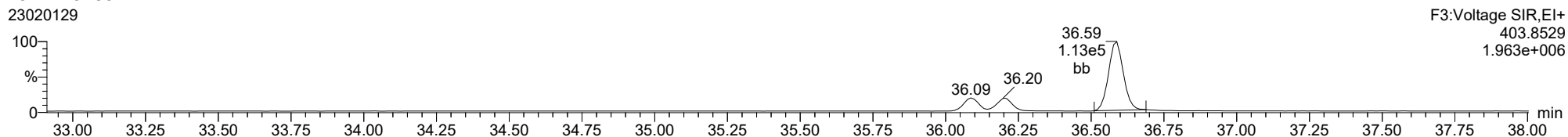
123789-HxCDD



13C-123789-HxCDD



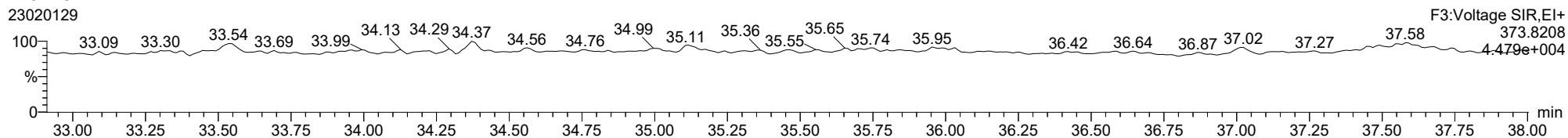
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ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

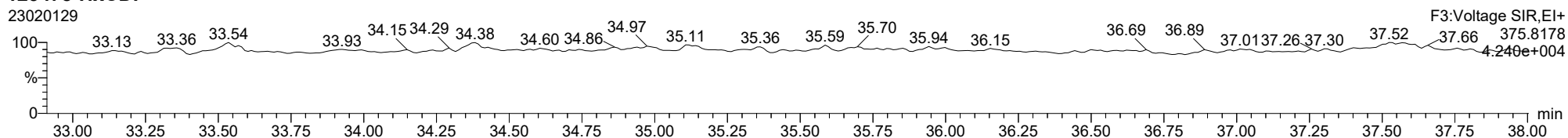
123478-HxCDF

23020129



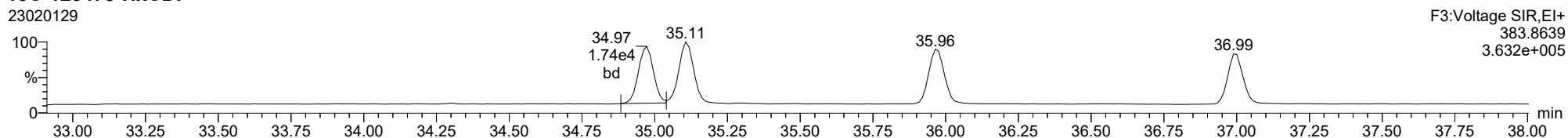
123478-HxCDF

23020129



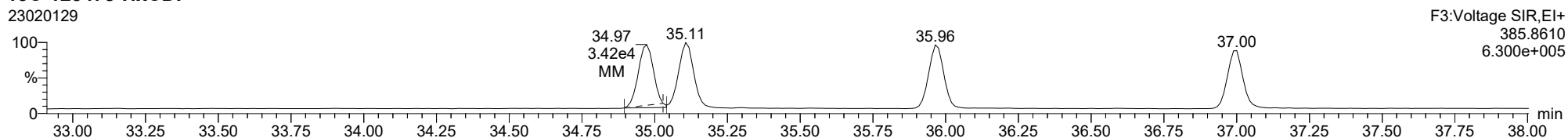
13C-123478-HxCDF

23020129



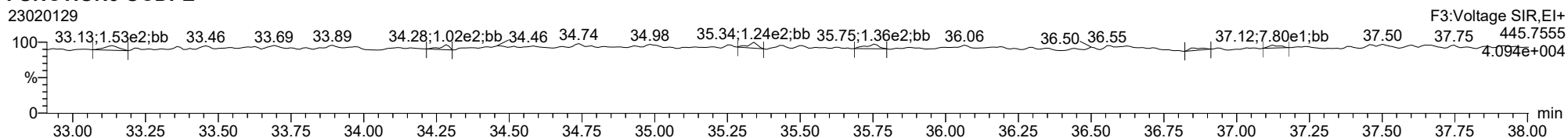
13C-123478-HxCDF

23020129



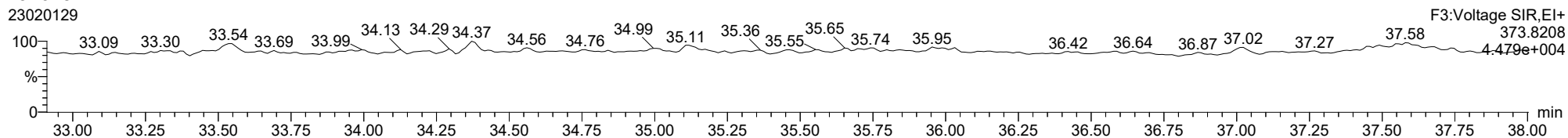
FUNCTION3 OCDPE

23020129

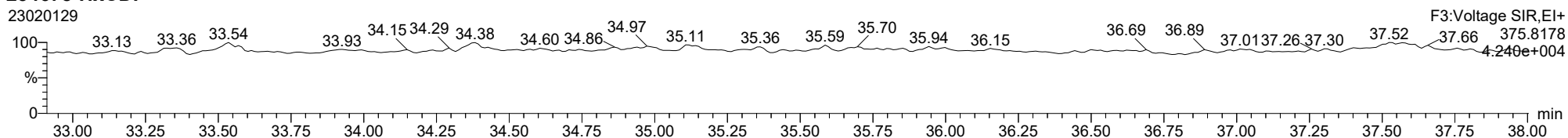


ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

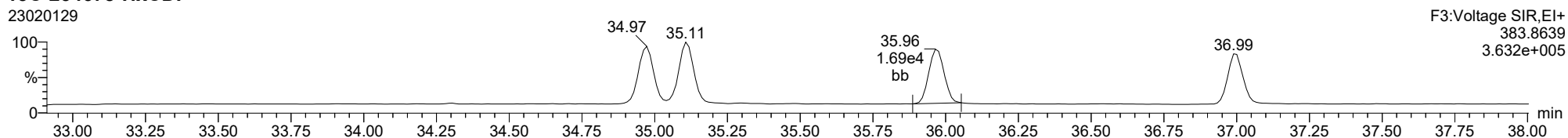
**234678-HxCDF**



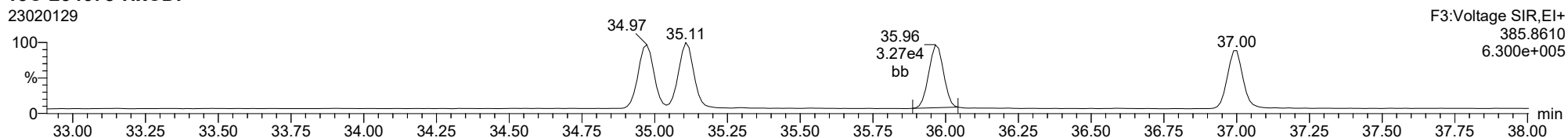
**234678-HxCDF**



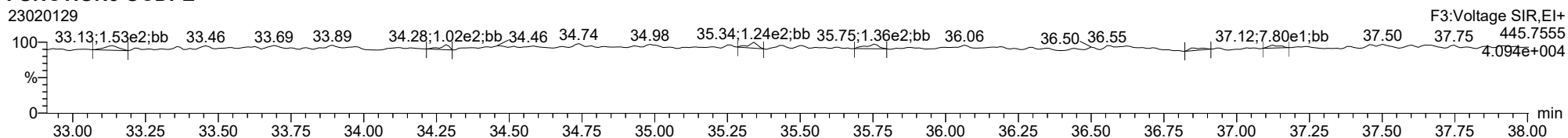
**13C-234678-HxCDF**



**13C-234678-HxCDF**

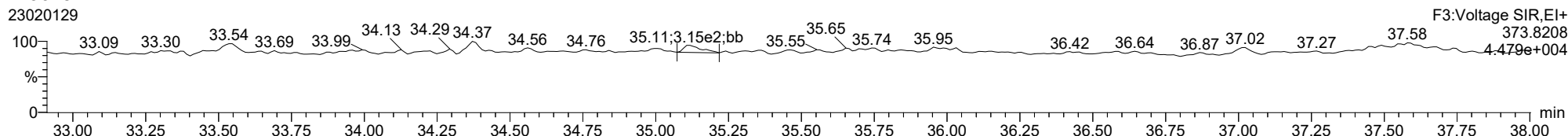


**FUNCTION3 OCDPE**

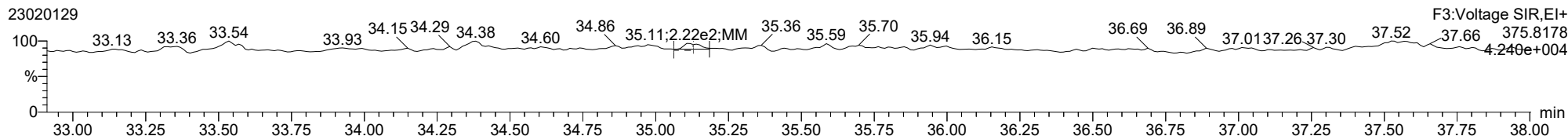


ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

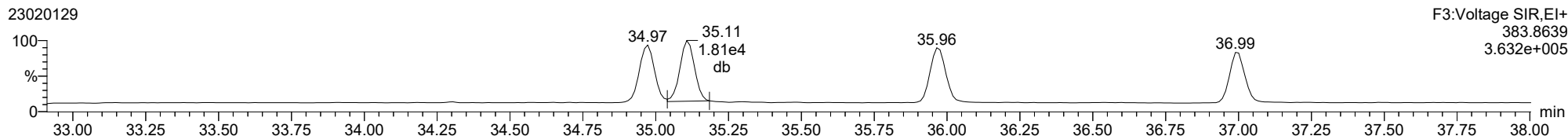
123678-HxCDF



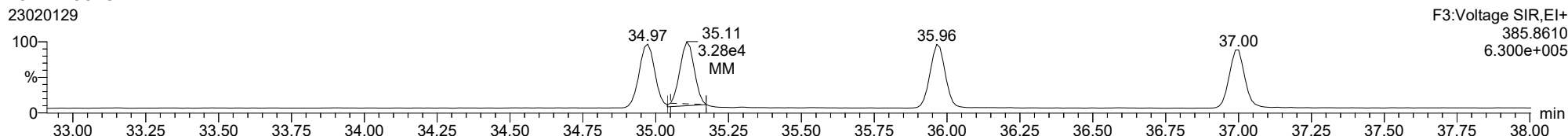
123678-HxCDF



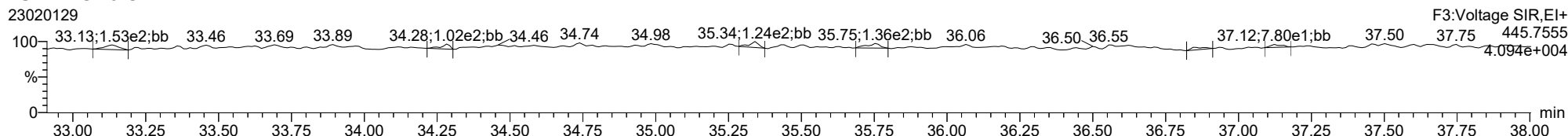
13C-123678-HxCDF



13C-123678-HxCDF



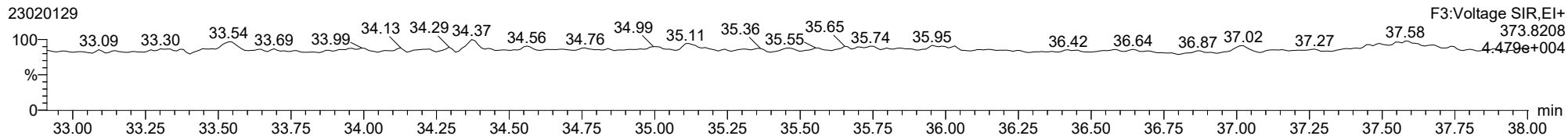
FUNCTION3 OCDPE



ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

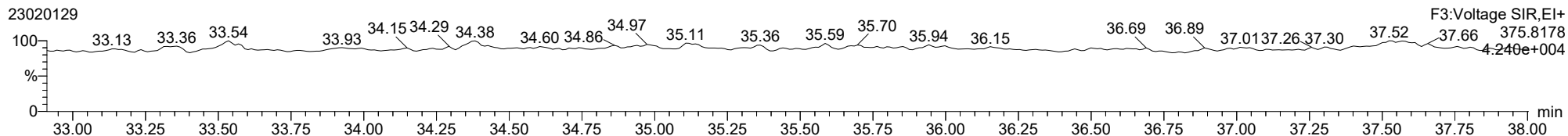
123789-HxCDF

23020129



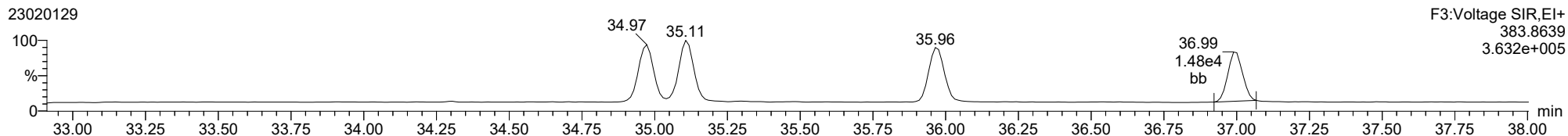
123789-HxCDF

23020129



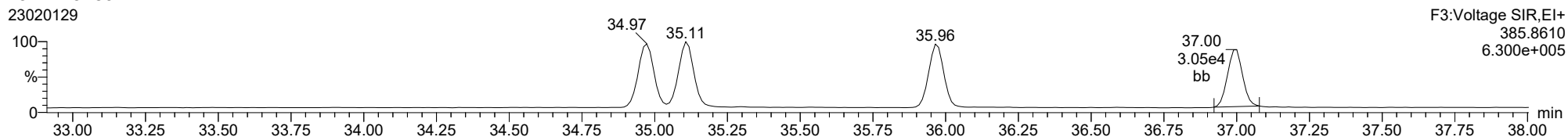
13C-123789-HxCDF

23020129



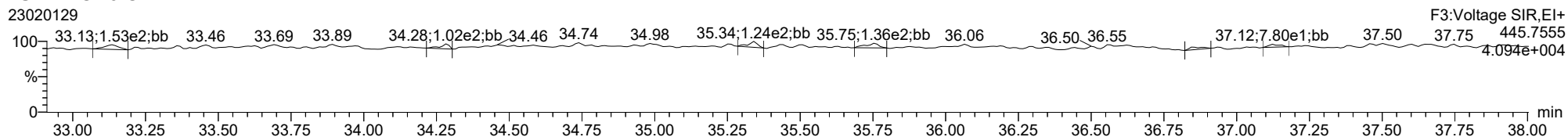
13C-123789-HxCDF

23020129



FUNCTION3 OCDPE

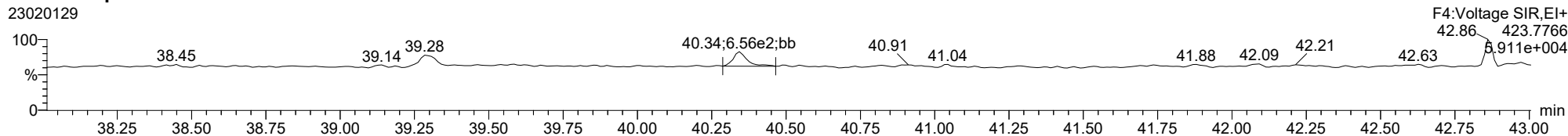
23020129



ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

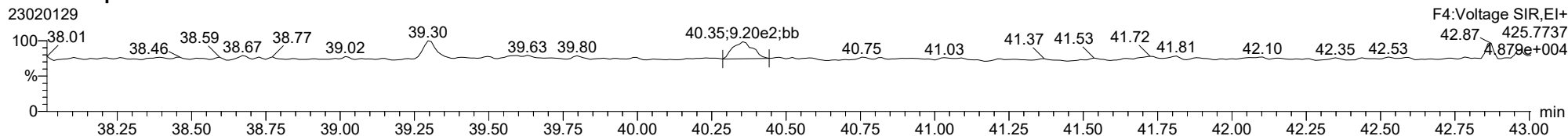
**1234678-HpCDD**

23020129



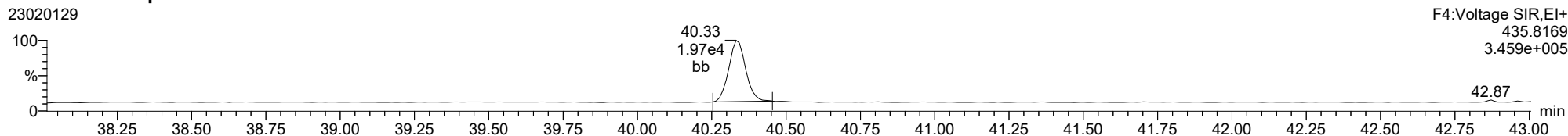
**1234678-HpCDD**

23020129



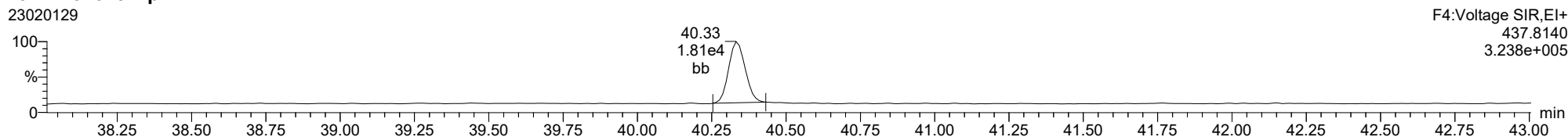
**13C-1234678-HpCDD**

23020129



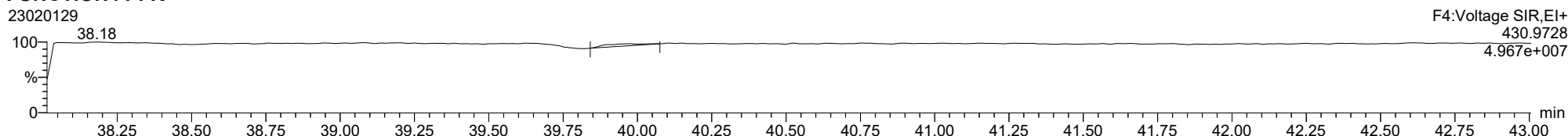
**13C-1234678-HpCDD**

23020129



**FUNCTION4 PFK**

23020129

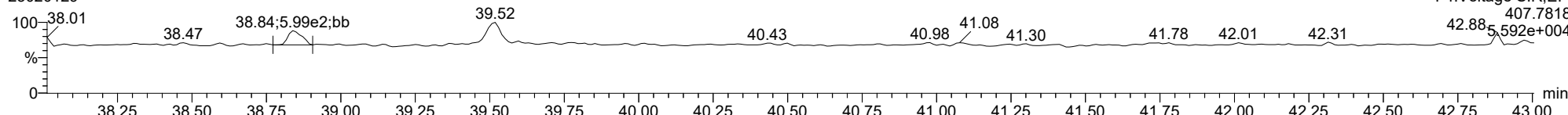




ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

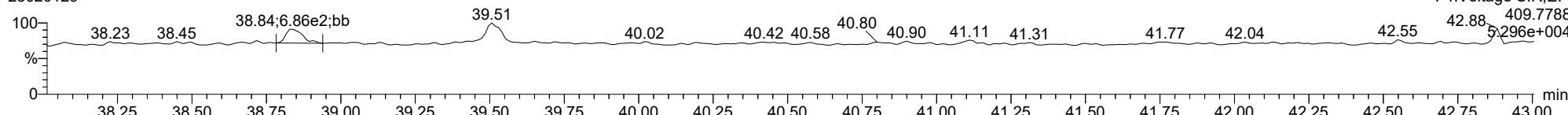
**1234678-HpCDF**

23020129



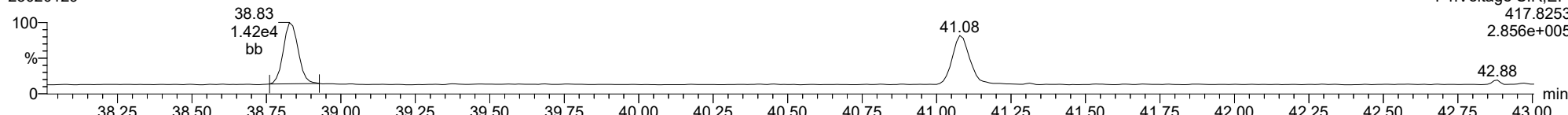
**1234678-HpCDF**

23020129



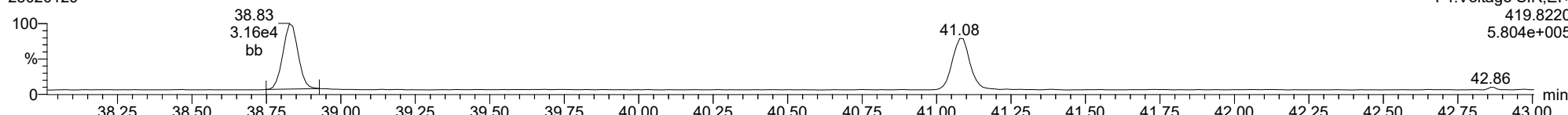
**13C-1234678-HpCDF**

23020129



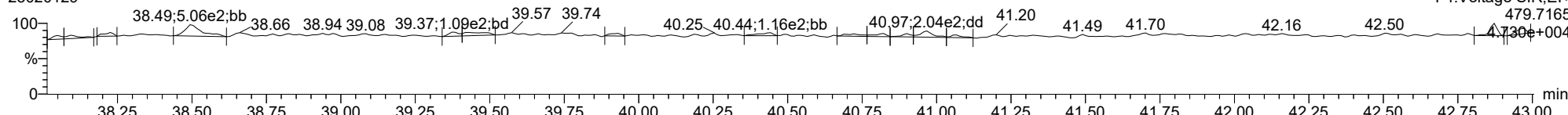
**13C-1234678-HpCDF**

23020129



**FUNCTION4 NCDPE**

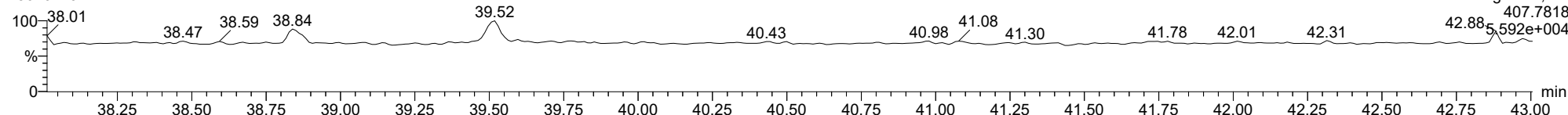
23020129



ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

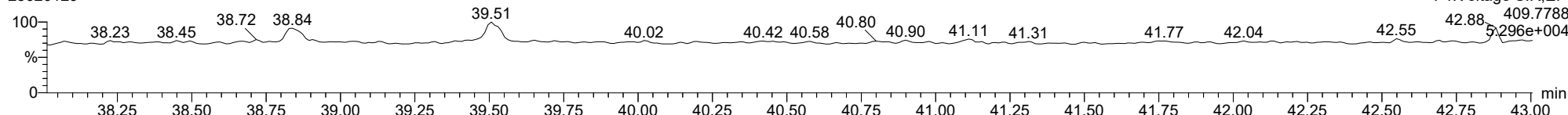
### 1234789-HpCDF

23020129



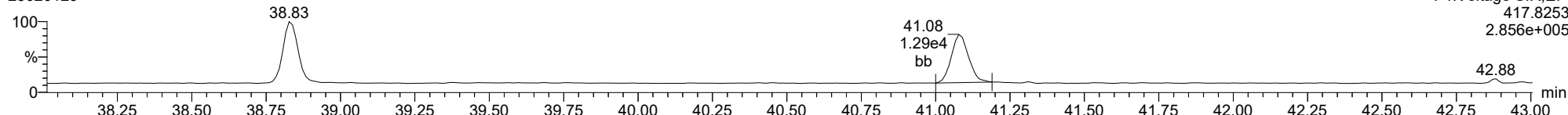
### 1234789-HpCDF

23020129



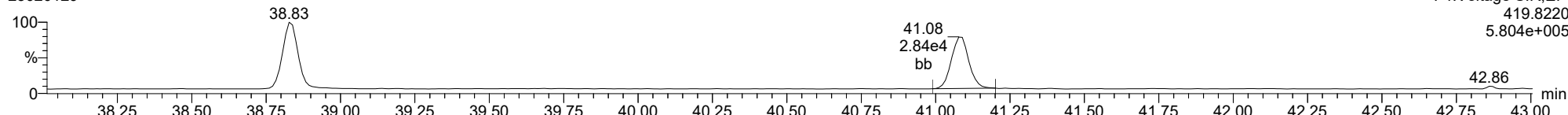
### 13C-1234789-HpCDF

23020129



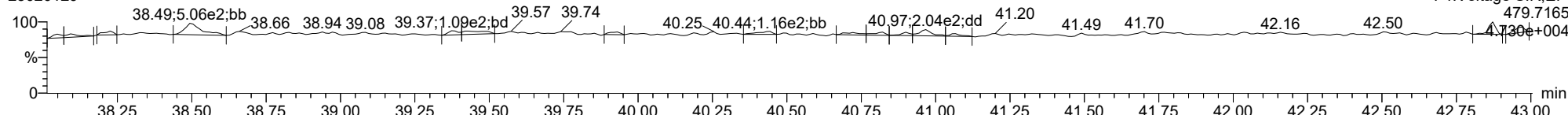
### 13C-1234789-HpCDF

23020129



### FUNCTION4 NCDPE

23020129



ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

**OCDD**

23020129

100  
%  
0

45.10;4.36e3;bb

F5:Voltage SIR,EI+  
457.7377  
9.115e+004

46.21

43.01

43.20 43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

**OCDD**

23020129

100  
%  
0

45.10;5.41e3;bb

F5:Voltage SIR,EI+  
459.7348  
1.004e+005

44.63

43.03

43.20 43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

**13C-OCDD**

23020129

100  
%  
0

45.09;3.66e4;bb

F5:Voltage SIR,EI+  
469.7779  
5.063e+005

43.20 43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

**13C-OCDD**

23020129

100  
%  
0

45.09;4.02e4;bb

F5:Voltage SIR,EI+  
471.7750  
5.443e+005

43.20 43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

**FUNCTION5 PFK**

23020129

100  
%  
0

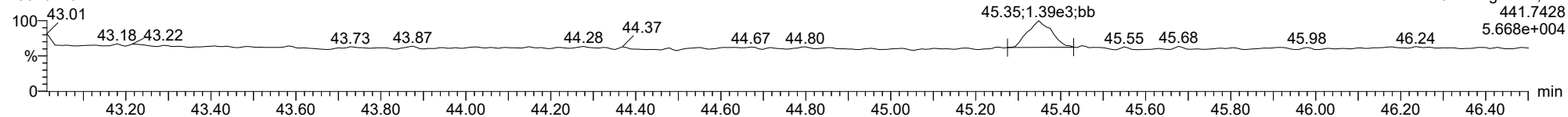
F5:Voltage SIR,EI+  
480.9696  
2.689e+007

43.20 43.40 43.60 43.80 44.00 44.20 44.40 44.60 44.80 45.00 45.20 45.40 45.60 45.80 46.00 46.20 46.40 min

ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

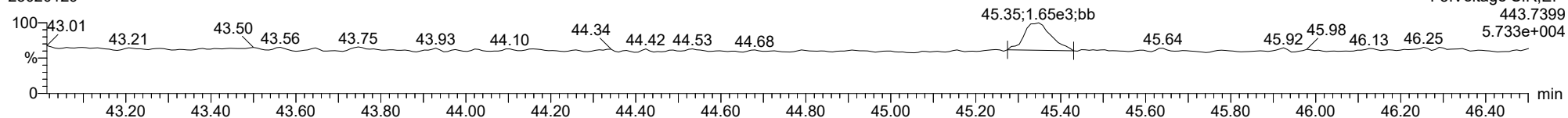
### OCDF

23020129



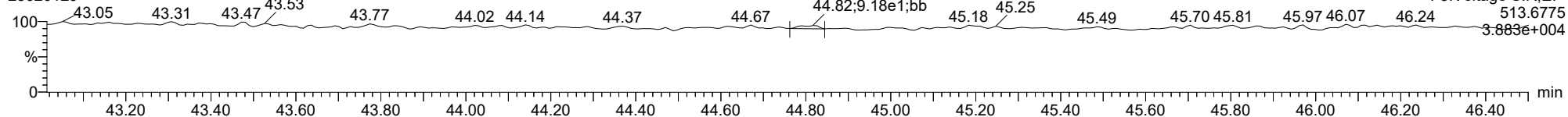
### OCDF

23020129



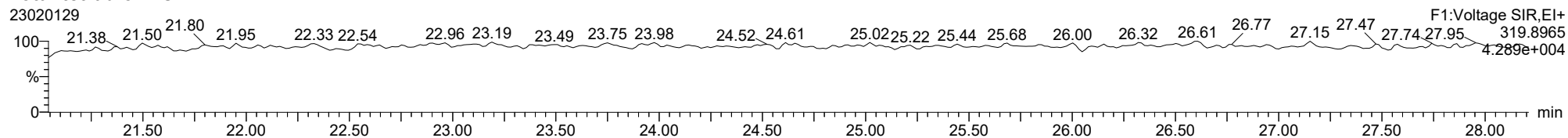
### FUNCTION5 DCDPE

23020129

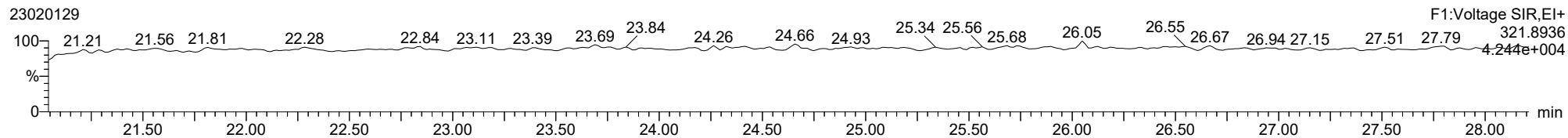


ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

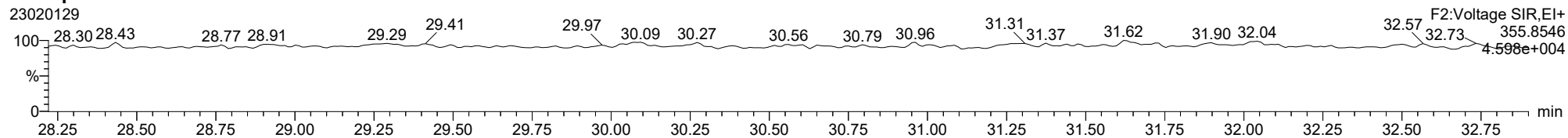
**Total-tetradioxins**



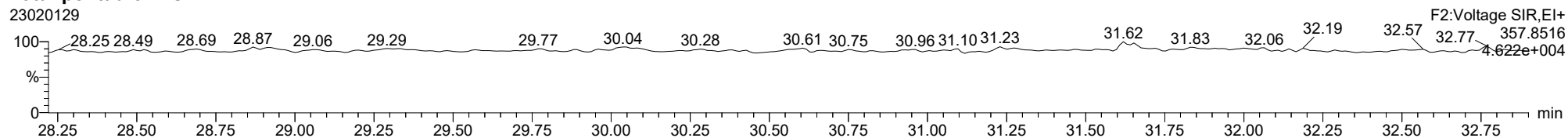
**Total-tetradioxins**



**Total-pentadioxins**

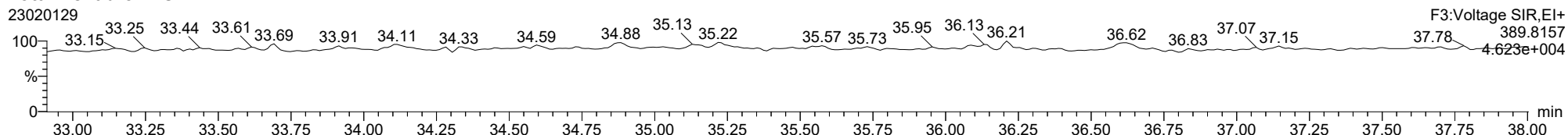


**Total-pentadioxins**

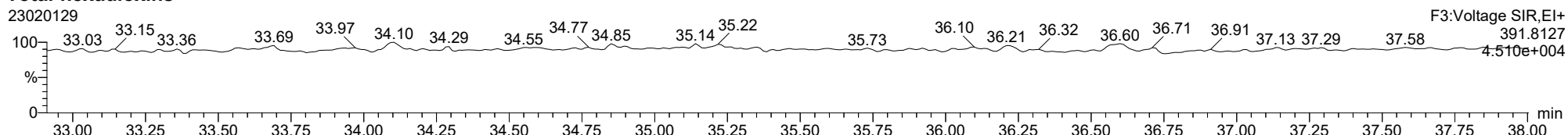


ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

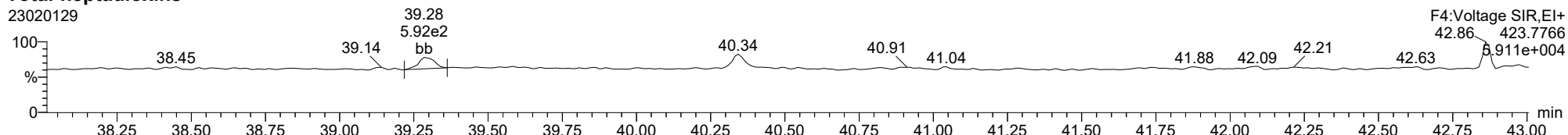
**Total-hexadioxins**



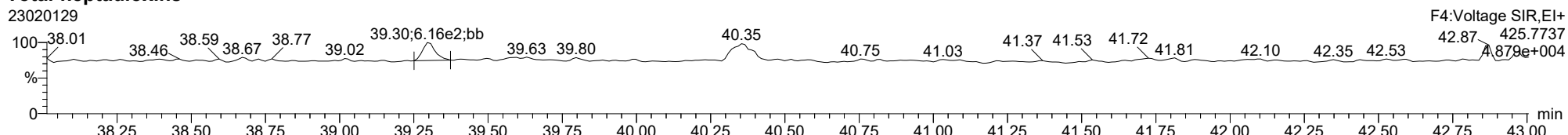
**Total-hexadioxins**



**Total-heptadioxins**



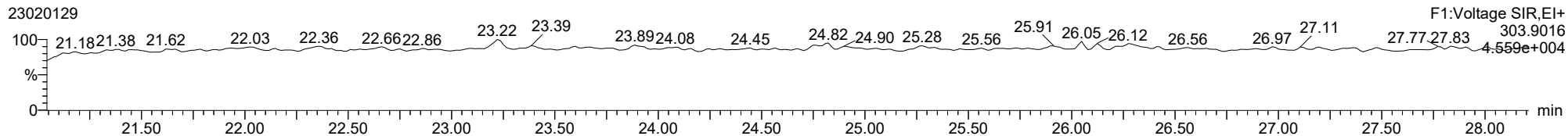
**Total-heptadioxins**



ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

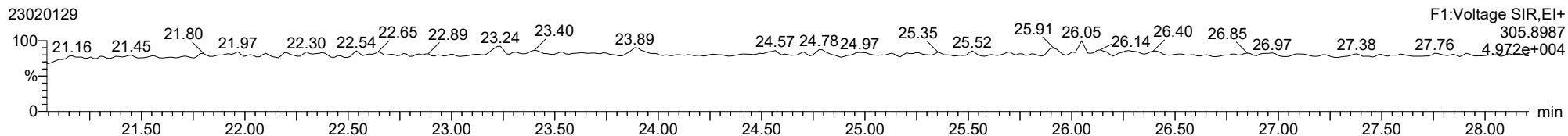
**Total-tetrafurans**

23020129



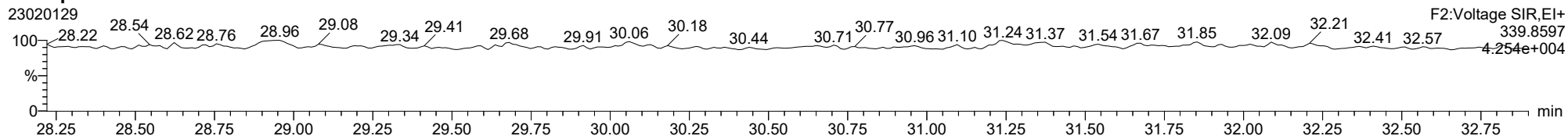
**Total-tetrafurans**

23020129



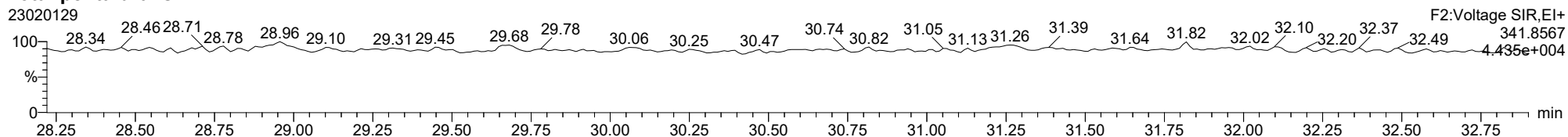
**Total-pentafurans**

23020129



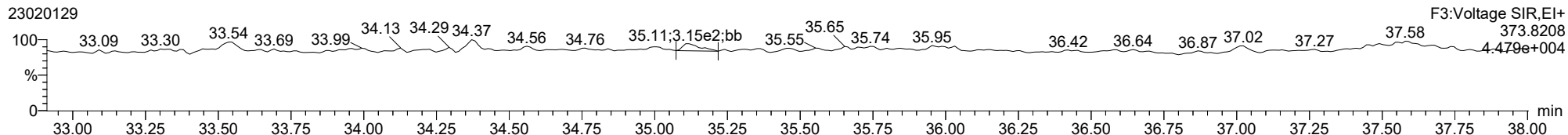
**Total-pentafurans**

23020129

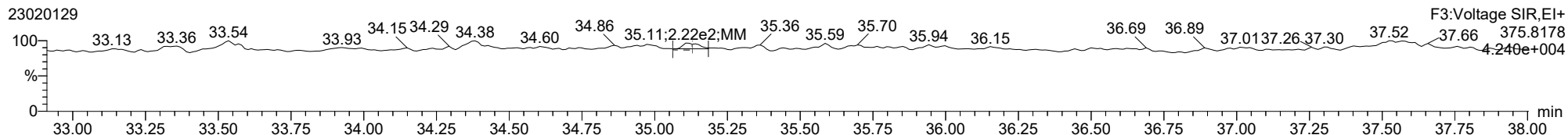


ID: 22L0246-44, Name: 23020129, Date: 02-Feb-2023, Time: 12:16:09, Conditions: AUTOSPEC01, User: pk

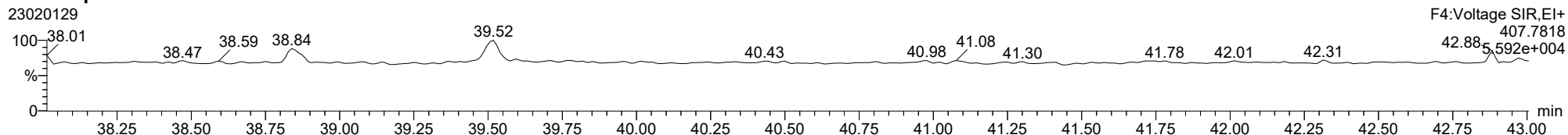
**Total-hexafurans**



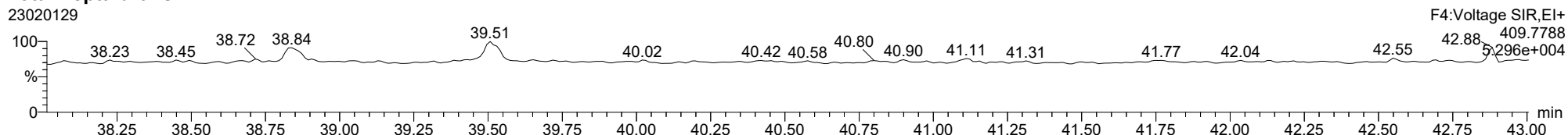
**Total-hexafurans**



**Total-heptafurans**



**Total-heptafurans**







Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-44RE1 A File ID: 23030804  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 03/08/23 12:19  
 % Solids: 48.53 Preparation: EPA 1613 Initial/Final: 20.64 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLC0101 Calibration: GC00015  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	1.397	0.655-0.886	1.17	0.998	2.54	ng/kg	EMPC
1746-01-6	2,3,7,8-TCDD	1		0.655-0.886	1.06	0.998	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1		1.318-1.783	1.14	0.998	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.431	1.318-1.783	0.999	0.998	0.727	ng/kg	EMPC, J
40321-76-4	1,2,3,7,8-PeCDD	1		1.318-1.783	0.867	0.998	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.140	1.054-1.426	0.514	0.998	1.43	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.960	1.054-1.426	0.521	0.998	1.33	ng/kg	EMPC, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.025	1.054-1.426	0.522	0.998	1.37	ng/kg	EMPC
72918-21-9	1,2,3,7,8,9-HxCDF	1	2.045	1.054-1.426	0.579	0.998	1.19	ng/kg	EMPC
39227-28-6	1,2,3,4,7,8-HxCDD	1		1.054-1.426	1.00	0.998	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1		1.054-1.426	0.993	0.998	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.299	1.054-1.426	1.10	0.998	2.07	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.955	0.893-1.208	0.617	0.998	3.04	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.621	0.893-1.208	0.955	0.998	1.13	ng/kg	EMPC
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.996	0.893-1.208	0.879	2.50	3.95	ng/kg	B
39001-02-0	OCDF	1		0.757-1.024	1.92	2.50	ND	ng/kg	U
3268-87-9	OCDD	1	0.744	0.757-1.024	1.52	9.98	22.8	ng/kg	EMPC, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	3.44	ng/kg
41903-57-5	Total TCDD	1	0.000			0.998	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.998	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.998	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.998	5.05	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.998	2.07	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.998	3.04	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.998	8.91	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.30  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 2.38



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-44RE1</u>
Sampled:	<u>12/09/22 11:44</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>48.53</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLC0101</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23030804</u>
		Analyzed:	<u>03/08/23 12:19</u>
		Initial/Final:	<u>20.64 g / 20 uL</u>
		Calibration:	<u>GC00015</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.756	0.655-0.886	0.269	18.5	24 - 169 %	*
13C12-2,3,7,8-TCDD		0.824	0.655-0.886	0.278	18.9	25 - 164 %	*
13C12-1,2,3,7,8-PeCDF		1.530	1.318-1.783	0.198	28.0	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.505	1.318-1.783	0.220	30.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.566	1.318-1.783	0.282	27.9	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.510	0.434-0.587	0.262	19.2	26 - 152 %	*
13C12-1,2,3,6,7,8-HxCDF		0.544	0.434-0.587	0.221	17.7	26 - 123 %	*
13C12-2,3,4,6,7,8-HxCDF		0.514	0.434-0.587	0.271	19.4	28 - 136 %	*
13C12-1,2,3,7,8,9-HxCDF		0.529	0.434-0.587	0.328	21.3	29 - 147 %	*
13C12-1,2,3,4,7,8-HxCDD		1.374	1.054-1.426	0.320	19.0	32 - 141 %	*
13C12-1,2,3,6,7,8-HxCDD		1.215	1.054-1.426	0.275	16.9	28 - 130 %	*
13C12-1,2,3,4,6,7,8-HpCDF		0.446	0.374-0.506	0.233	21.5	28 - 143 %	*
13C12-1,2,3,4,7,8,9-HpCDF		0.444	0.374-0.506	0.271	19.0	26 - 138 %	*
13C12-1,2,3,4,6,7,8-HpCDD		1.069	0.893-1.208	0.217	19.0	23 - 140 %	*
13C12-OCDD		0.915	0.757-1.024	0.340	19.2	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.103	24.4	35 - 197 %	*

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld  
 Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time  
 Printed: Wednesday, March 08, 2023 14:10:21 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32**

**Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27**

**ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.001	4.362e2	3.122e2	0.702	1.397	0.770	673	1043	6.75e3	4.56e3	10.0	4.4	YES	bd	bb	1.274
12378-PeCDF					0.679		1.550	711	1110								
23478-PeCDF	31.259	1.000	8.092e1	1.875e2	0.786	0.431	1.550	711	1110	2.65e3	4.03e3	3.7	3.6	YES	bb	bb	0.364
123478-HxCDF	34.891	1.000	3.385e2	2.969e2	1.166	1.140	1.240	649	502	4.78e3	3.70e3	7.4	7.4	NO	bb	bd	0.716
234678-HxCDF	35.894	1.000	2.935e2	2.863e2	1.140	1.025	1.240	649	502	4.63e3	5.05e3	7.1	10.1	YES	bb	bb	0.685
123678-HxCDF	35.036	1.001	2.965e2	3.087e2	1.091	0.960	1.240	649	502	4.57e3	4.89e3	7.0	9.7	YES	bb	db	0.666
123789-HxCDF	36.930	1.001	3.070e2	1.502e2	1.137	2.045	1.240	649	502	4.97e3	2.97e3	7.7	5.9	YES	bb	bb	0.597
1234678-HpCDF	38.757	1.000	4.880e2	5.112e2	1.003	0.955	1.050	440	592	7.85e3	1.00e4	17.9	16.9	NO	bb	bb	1.523
1234789-HpCDF	41.019	1.001	1.023e2	1.646e2	0.953	0.621	1.050	440	592	2.40e3	3.80e3	5.5	6.4	YES	MM	db	0.564
OCDF					0.778		0.890	612	811								
2378-TCDD					1.149		0.770	1064	743								
12378-PeCDD					1.022		1.550	804	615								
123478-HxCDD					0.996		1.240	760	950								
123678-HxCDD					1.001		1.240	760	950								
123789-HxCDD	36.507	1.011	3.480e2	2.678e2	0.907	1.299	1.240	760	950	6.09e3	4.39e3	8.0	4.6	NO	bb	bd	1.039
1234678-HpCDD	40.262	1.000	5.563e2	5.584e2	1.039	0.996	1.050	672	544	7.25e3	8.67e3	10.8	15.9	NO	MM	bb	1.976
OCDD	45.008	1.000	2.243e3	3.015e3	0.920	0.744	0.890	743	590	2.73e4	3.76e4	36.7	63.8	YES	bb	bb	11.400
13C-2378-TCDF	25.746	1.007	3.605e4	4.769e4	1.620	0.756	0.770	2195	986	5.39e5	7.15e5	245.7	725.0	NO	bb	bb	18.490
13C-12378-PeCDF	29.911	1.169	5.875e4	3.840e4	1.240	1.530	1.550	950	846	8.53e5	5.53e5	898.4	653.5	NO	bd	bb	28.015
13C-23478-PeCDF	31.248	1.222	5.631e4	3.741e4	1.118	1.505	1.550	950	846	8.35e5	5.41e5	878.7	640.1	NO	bb	bb	29.992
13C-123478-HxCDF	34.880	0.956	2.570e4	5.036e4	1.168	0.510	0.510	1395	1288	3.89e5	7.49e5	278.7	581.4	NO	bd	bd	19.154
13C-123678-HxCDF	35.014	0.959	2.938e4	5.395e4	1.386	0.544	0.510	1395	1288	4.28e5	7.95e5	306.9	616.8	NO	dd	db	17.682
13C-234678-HxCDF	35.883	0.983	2.522e4	4.907e4	1.129	0.514	0.510	1395	1288	3.93e5	7.50e5	282.0	581.9	NO	bb	bb	19.356
13C-123789-HxCDF	36.908	1.011	2.329e4	4.406e4	0.932	0.529	0.510	1395	1288	3.62e5	6.76e5	259.5	525.1	NO	bb	bb	21.265
13C-1234678-HpCDF	38.757	1.062	2.017e4	4.523e4	0.895	0.446	0.440	884	948	3.08e5	7.42e5	348.2	782.4	NO	bb	bb	21.495
13C-1234789-HpCDF	40.986	1.123	1.526e4	3.440e4	0.770	0.444	0.440	884	948	2.09e5	4.68e5	235.9	493.6	NO	bb	bb	18.981
13C-1234-TCDD	25.576	0.000	1.256e5	1.540e5	1.000	0.816	0.770	1450	887	1.96e6	2.38e6	1354.2	2682.4	NO	bb	bb	100.000
13C-2378-TCDD	26.382	1.031	2.756e4	3.345e4	1.152	0.824	0.770	1450	887	4.01e5	5.06e5	276.6	569.8	NO	bd	bb	18.938
13C-12378-PeCDD	31.504	1.232	3.951e4	2.523e4	0.829	1.566	1.550	925	783	5.85e5	3.71e5	632.7	473.9	NO	bb	bd	27.942
13C-123478-HxCDD	35.994	0.986	3.714e4	2.703e4	0.995	1.374	1.240	958	1834	5.94e5	4.50e5	619.7	245.4	NO	bd	bd	18.971
13C-123678-HxCDD	36.117	0.990	3.648e4	3.003e4	1.157	1.215	1.240	958	1834	5.65e5	4.61e5	590.0	251.2	NO	db	db	16.918
13C-1234678-HpCDD	40.250	1.103	2.806e4	2.623e4	0.840	1.069	1.050	836	766	4.12e5	3.92e5	492.9	511.9	NO	bd	bb	19.011
13C-OCDD	44.990	1.233	4.790e4	5.236e4	0.767	0.915	0.890	1273	1015	5.46e5	5.98e5	428.5	589.9	NO	bd	bd	38.433
13C-123789-HxCDD	36.496	0.000	1.908e5	1.491e5	1.000	1.280	1.240	958	1834	2.95e6	2.33e6	3079.4	1268.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.410	1.033	3.510e4		1.288			971		5.22e5		537.0			bb		9.751

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld  
 Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time  
 Printed: Wednesday, March 08, 2023 14:10:21 Pacific Standard Time

ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	673	1043								
1289-TCDF					0.678		0.770	673	1043								
13468-PECDF					1.246		1.550	562	657								
12389-PECDF					0.496		1.550	711	1110								
123468-HXCDF					1.169		1.240	649	502								
1368-TCDD	23.528	0.892	1.051e2	2.086e2	1.015	0.504	0.770	1064	743	1.96e3	4.07e3	1.8	5.5	YES	bb	bb	0.506
1289-TCDD					0.909		0.770	1064	743								
12479-PECDD					2.301		1.550	804	615								
12389-PECDD	31.928	1.013	1.718e2	7.310e1	1.184	2.350	1.550	804	615	3.38e3	2.04e3	4.2	3.3	YES	bb	bd	0.320
124679-HXCDD	34.011	0.945	2.981e2	2.955e2	1.115	1.009	1.240	760	950	5.92e3	5.30e3	7.8	5.6	YES	bb	bb	0.829
1234679-HPCDD	39.214	0.974	7.977e2	7.381e2	1.137	1.081	1.050	672	544	1.41e4	1.24e4	20.9	22.8	NO	bb	bb	2.488
Total-tetrafurans			4.534e2		0.727			673		6.08e3							1.724
Total-penta1			0.000e0					562		0.00e0							
Total-pentafurans			0.000e0		0.654			711		0.00e0							
Total-hexafurans			1.183e3		1.141			649		1.59e4							2.528
Total-heptafurans			4.880e2		0.978			440		7.85e3							1.523
Total-Furans			2.125e3		0.922			673		2.99e4							5.775
Total-tetradoxins			0.000e0		1.024			1064		0.00e0							
Total-pentadoxins			0.000e0		1.502			804		0.00e0							
Total-hexadoxins			3.480e2		1.005			760		6.09e3							1.039
Total-heptadoxins			1.354e3		1.088			672		2.13e4							4.464
Total-Dioxins			1.802e3		1.130			1064		2.93e4							5.830
Total-TEQ			3.926e3					1064		5.92e4							11.604
FUNCTION1 PFK			4.277e7					372032		4.63e7							
FUNCTION2 PFK			0.000e0					321269		0.00e0							
FUNCTION3 PFK			3.228e5					357494		8.24e6							0.000
FUNCTION4 PFK			1.551e6					285411		2.52e6							
FUNCTION5 PFK			3.236e4					161030		1.53e6							
FUNCTION1 HXCD...			7.382e2					619		1.03e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			3.545e2					584		6.68e3							0.000
FUNCTION3 OCDPE			7.202e1					524		1.25e3							0.000
FUNCTION4 NCDPE			5.999e2					623		9.44e3							0.000
FUNCTION5 DCDPE			7.781e1					556		1.60e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:21 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32****Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27****ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.09	4.534e2	5.960e2	0.727	0.76	0.77	9.0	YES	NO	bd	bb	1.724

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.43	8.448e2	7.101e2	1.141	1.19	1.24	17.2	YES	NO	bb	bb	1.811
2	123478-HxCDF	34.89	3.385e2	2.969e2	1.166	1.14	1.24	7.4	YES	NO	bb	bd	0.716

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.76	4.880e2	5.112e2	1.003	0.95	1.05	17.9	YES	NO	bb	bb	1.523

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.09	4.534e2	5.960e2	0.727	0.76	0.77	9.0	YES	NO	bd	bb	1.724
2	Total-hexafurans	33.43	8.448e2	7.101e2	1.141	1.19	1.24	17.2	YES	NO	bb	bb	1.811
3	123478-HxCDF	34.89	3.385e2	2.969e2	1.166	1.14	1.24	7.4	YES	NO	bb	bd	0.716
4	1234678-HpCDF	38.76	4.880e2	5.112e2	1.003	0.95	1.05	17.9	YES	NO	bb	bb	1.523

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:21 Pacific Standard Time

ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.51	3.480e2	2.678e2	0.907	1.30	1.24	8.0	YES	NO	bb	bd	1.039

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.26	5.563e2	5.584e2	1.039	1.00	1.05	10.8	YES	NO	MM	bb	1.976
2	1234679-HPCDD	39.21	7.977e2	7.381e2	1.137	1.08	1.05	20.9	YES	NO	bb	bb	2.488

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Dioxins	27.81	9.995e1	1.249e2	1.130	0.80	0.77	1.8	NO	NO	bb	bd	0.326
2	123789-HxCDD	36.51	3.480e2	2.678e2	0.907	1.30	1.24	8.0	YES	NO	bb	bd	1.039
3	1234678-HpCDD	40.26	5.563e2	5.584e2	1.039	1.00	1.05	10.8	YES	NO	MM	bb	1.976
4	1234679-HPCDD	39.21	7.977e2	7.381e2	1.137	1.08	1.05	20.9	YES	NO	bb	bb	2.488

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.09	4.534e2	5.960e2	0.727	0.76	0.77	9.0	YES	NO	bd	bb	1.724
2	Total-hexafurans	33.43	8.448e2	7.101e2	1.141	1.19	1.24	17.2	YES	NO	bb	bb	1.811
3	123478-HxCDF	34.89	3.385e2	2.969e2	1.166	1.14	1.24	7.4	YES	NO	bb	bd	0.716
4	1234678-HpCDF	38.76	4.880e2	5.112e2	1.003	0.95	1.05	17.9	YES	NO	bb	bb	1.523
5	Total-Dioxins	27.81	9.995e1	1.249e2	1.130	0.80	0.77	1.8	NO	NO	bb	bd	0.326
6	123789-HxCDD	36.51	3.480e2	2.678e2	0.907	1.30	1.24	8.0	YES	NO	bb	bd	1.039
7	1234678-HpCDD	40.26	5.563e2	5.584e2	1.039	1.00	1.05	10.8	YES	NO	MM	bb	1.976
8	1234679-HPCDD	39.21	7.977e2	7.381e2	1.137	1.08	1.05	20.9	YES	NO	bb	bb	2.488

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:21 Pacific Standard Time

ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.50	2.727e7					37.8	YES		db		
2	FUNCTION1 PFK	21.62	1.128e7					42.8	YES		dd		
3	FUNCTION1 PFK	21.23	4.220e6					43.8	YES		bd		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.37	1.998e3					0.5	NO		bb		0.000
2	FUNCTION3 PFK	34.09	5.100e3					0.9	NO		bb		0.000
3	FUNCTION3 PFK	34.04	2.520e4					1.7	NO		bb		0.000
4	FUNCTION3 PFK	33.90	2.212e3					0.6	NO		bb		0.000
5	FUNCTION3 PFK	33.65	2.899e4					1.6	NO		db		0.000
6	FUNCTION3 PFK	33.48	4.499e4					1.7	NO		bd		0.000
7	FUNCTION3 PFK	33.33	2.526e4					1.4	NO		bb		0.000
8	FUNCTION3 PFK	37.71	5.492e3					0.8	NO		bb		0.000
9	FUNCTION3 PFK	37.67	1.805e3					0.5	NO		bb		0.000
10	FUNCTION3 PFK	37.62	8.795e3					1.0	NO		bb		0.000
11	FUNCTION3 PFK	37.01	6.711e4					2.5	NO		bb		0.000
12	FUNCTION3 PFK	36.70	9.515e3					1.3	NO		bb		0.000
13	FUNCTION3 PFK	36.60	8.116e3					1.0	NO		bb		0.000
14	FUNCTION3 PFK	36.24	1.816e4					1.9	NO		bb		0.000
15	FUNCTION3 PFK	35.74	1.600e3					0.4	NO		bb		0.000
16	FUNCTION3 PFK	35.55	6.205e3					0.8	NO		bb		0.000
17	FUNCTION3 PFK	35.45	1.894e3					0.5	NO		bb		0.000
18	FUNCTION3 PFK	35.40	6.160e3					0.9	NO		bb		0.000
19	FUNCTION3 PFK	34.53	1.896e4					1.4	NO		bb		0.000
20	FUNCTION3 PFK	34.45	3.526e4					1.9	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:21 Pacific Standard Time

ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.68	1.036e5					2.0	NO		bb		
2	FUNCTION4 PFK	37.91	1.448e6					6.9	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.92	4.543e3					1.5	NO		bb		
2	FUNCTION5 PFK	44.29	1.247e4					2.2	NO		bb		
3	FUNCTION5 PFK	43.68	2.164e3					1.0	NO		bb		
4	FUNCTION5 PFK	43.54	4.173e3					1.3	NO		bb		
5	FUNCTION5 PFK	42.95	1.285e3					0.9	NO		bb		
6	FUNCTION5 PFK	42.58	4.723e3					1.6	NO		db		
7	FUNCTION5 PFK	42.56	2.999e3					1.1	NO		bd		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.84	9.791e1					1.9	NO		bb		0.000
2	FUNCTION1 HXCD...	26.14	1.910e2					4.0	YES		bb		0.000
3	FUNCTION1 HXCD...	25.76	1.072e2					2.6	NO		bb		0.000
4	FUNCTION1 HXCD...	23.78	2.033e2					6.2	YES		bb		0.000
5	FUNCTION1 HXCD...	21.10	1.387e2					1.9	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.34	7.618e1					2.7	NO		bd		0.000
2	FUNCTION2 HPCD...	32.57	7.220e1					2.8	NO		bb		0.000
3	FUNCTION2 HPCD...	31.54	1.327e2					3.1	YES		db		0.000
4	FUNCTION2 HPCD...	31.44	7.346e1					2.9	NO		dd		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

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ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.52	7.202e1					2.4	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.11	7.535e1					2.9	NO		bb		0.000
2	FUNCTION4 NCDPE	38.75	7.896e1					2.6	NO		bb		0.000
3	FUNCTION4 NCDPE	38.41	4.456e2					9.6	YES		bb		0.000

**ETHERS6**

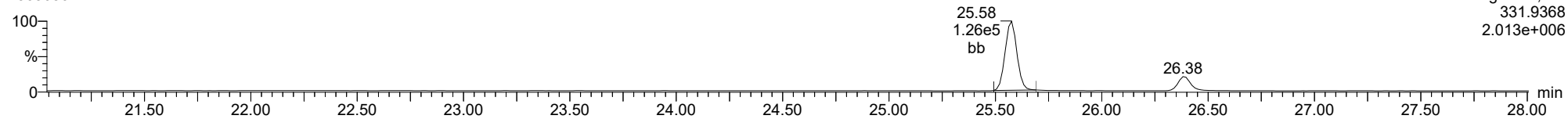
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.30	7.781e1					2.9	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32  
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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**13C-1234-TCDD**

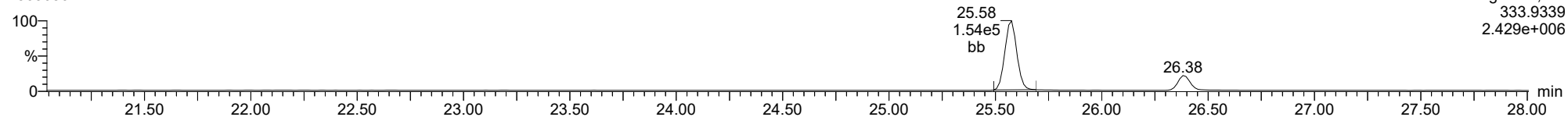
23030804



F1:Voltage SIR,El+  
331.9368  
2.013e+006

**13C-1234-TCDD**

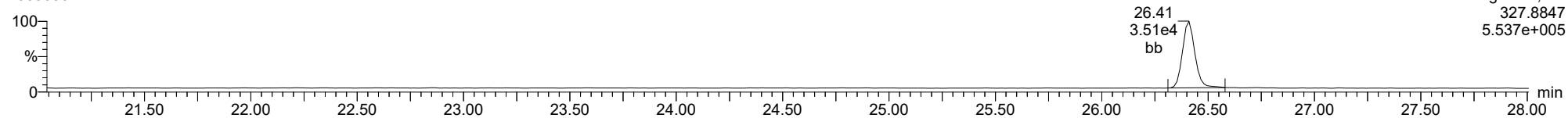
23030804



F1:Voltage SIR,El+  
333.9339  
2.429e+006

**37CL-2378-TCDD**

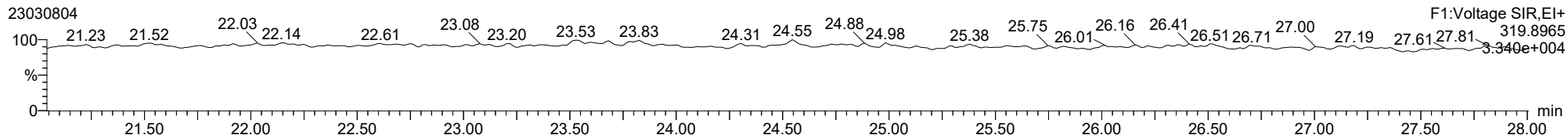
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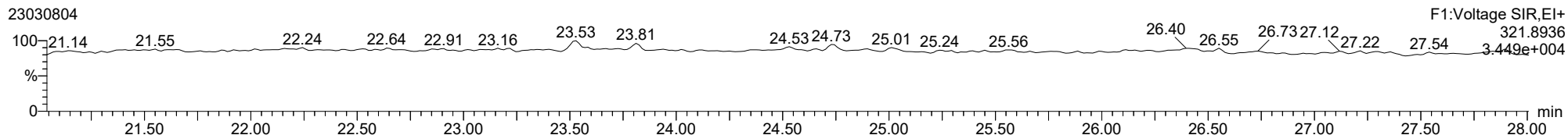
F1:Voltage SIR,El+  
327.8847  
5.537e+005

ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

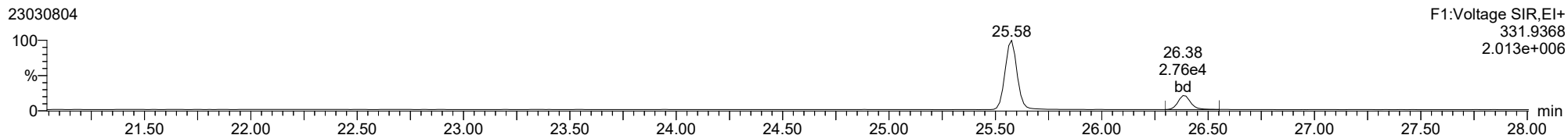
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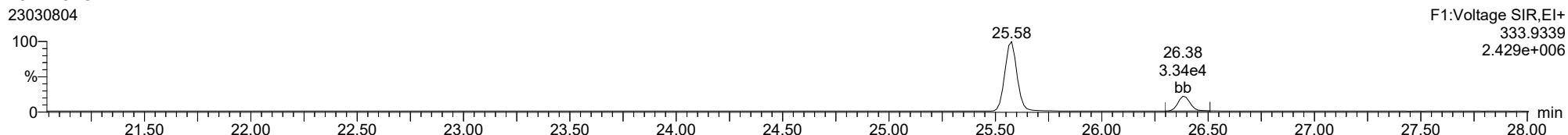
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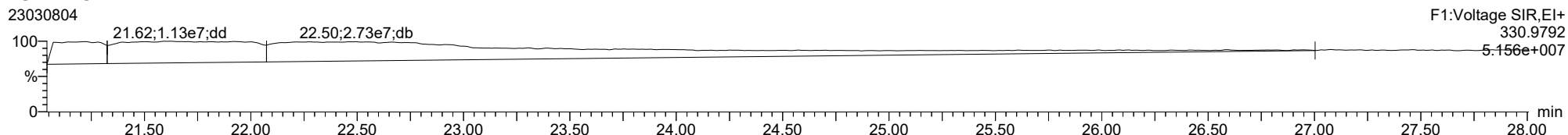
**13C-2378-TCDD**



**13C-2378-TCDD**

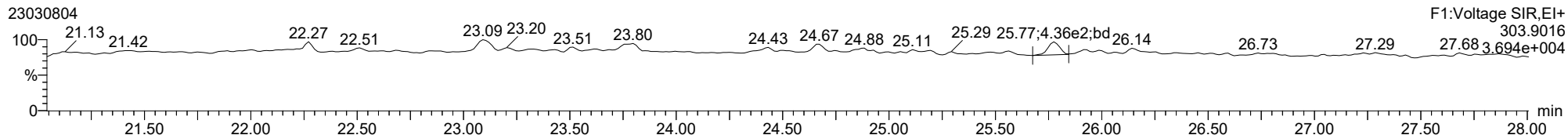


**FUNCTION1 PFK**

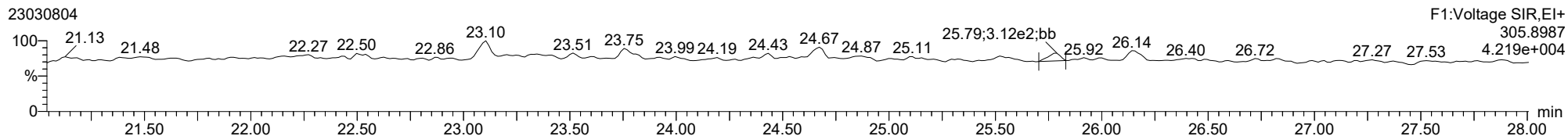


ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

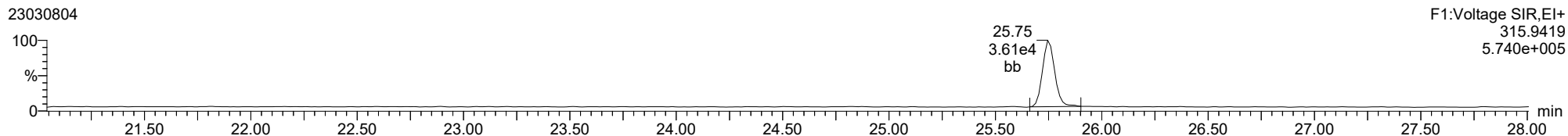
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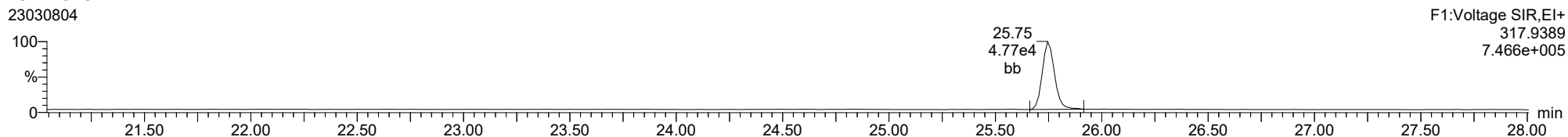
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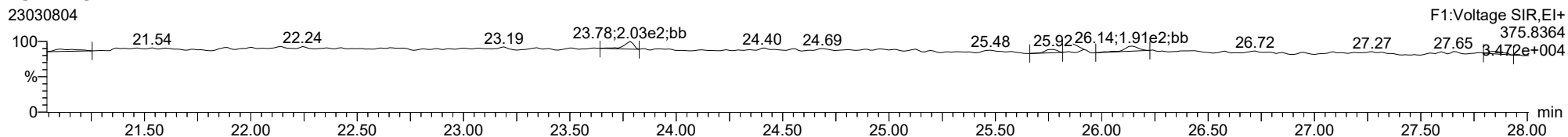
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**13C-2378-TCDF**



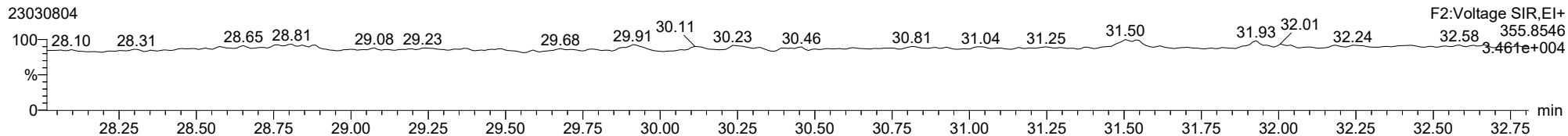
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ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

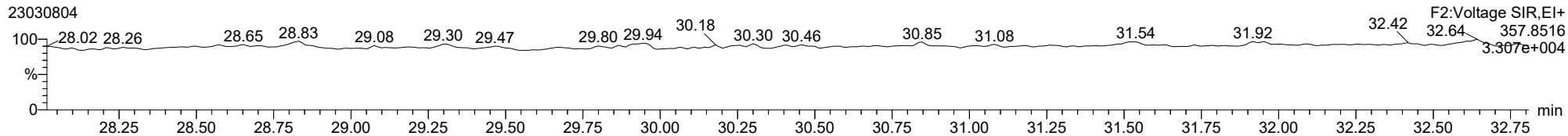
**12378-PeCDD**

23030804



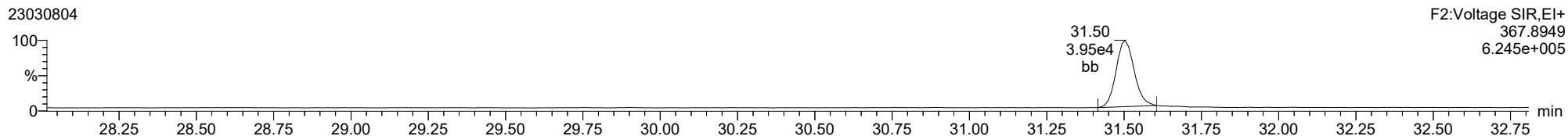
**12378-PeCDD**

23030804



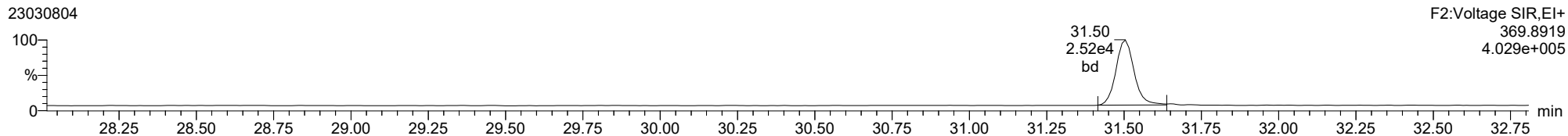
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23030804



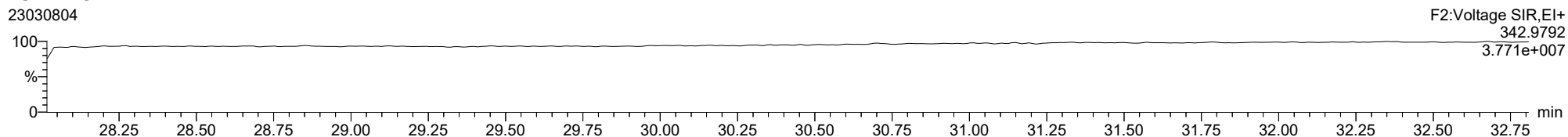
**13C-12378-PeCDD**

23030804



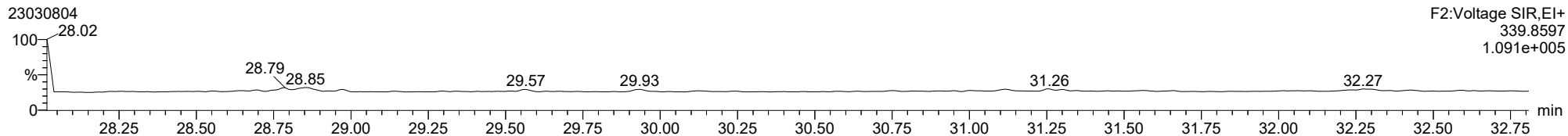
**FUNCTION2 PFK**

23030804

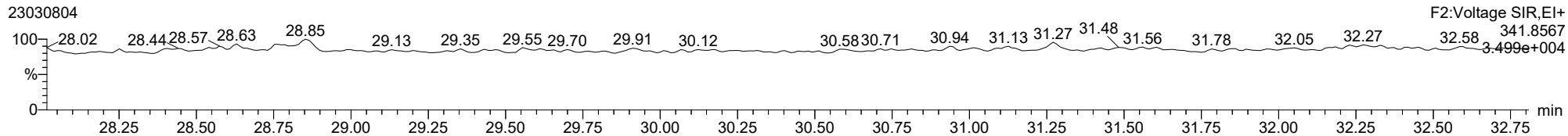


ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

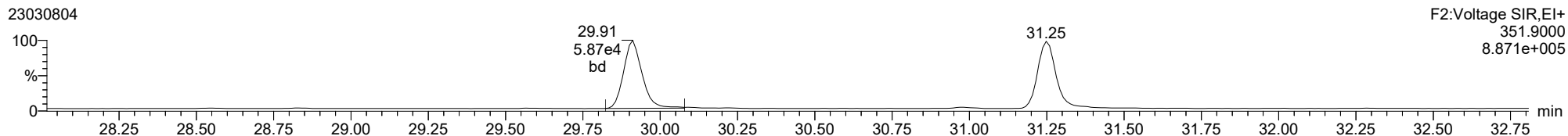
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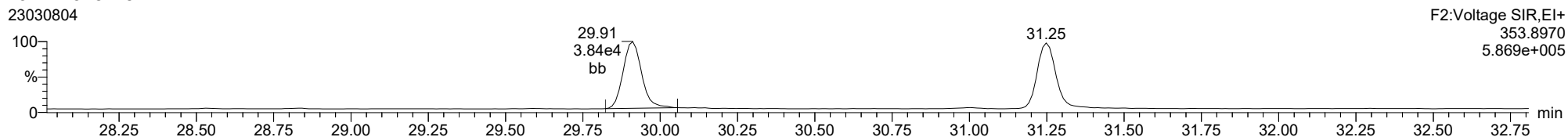
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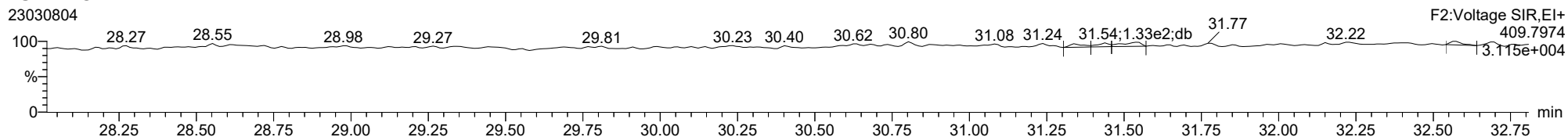
**13C-12378-PeCDF**



**13C-12378-PeCDF**

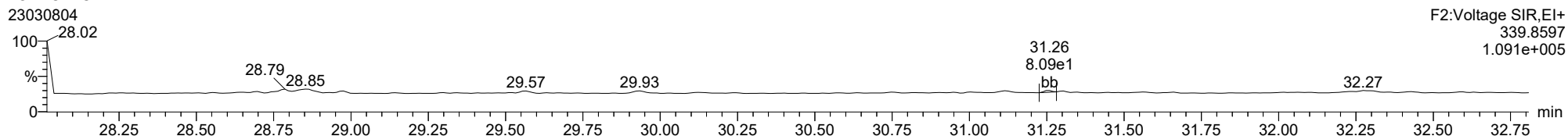


**FUNCTION2 HPCDPE**

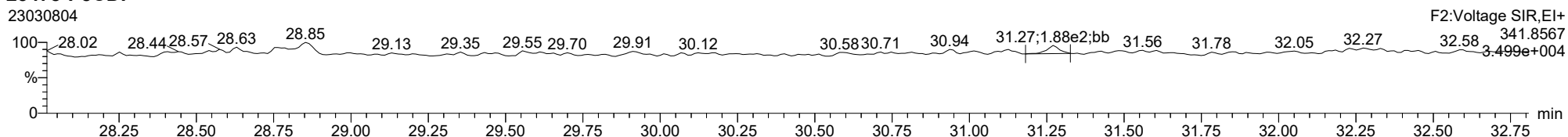


ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

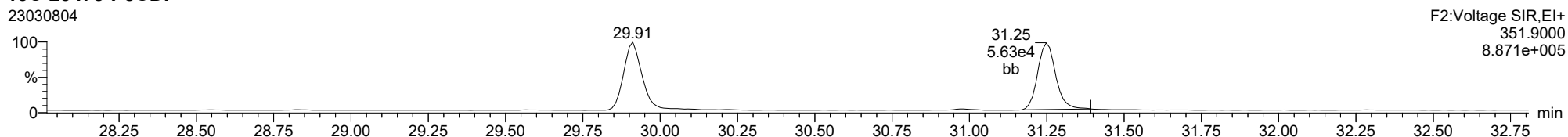
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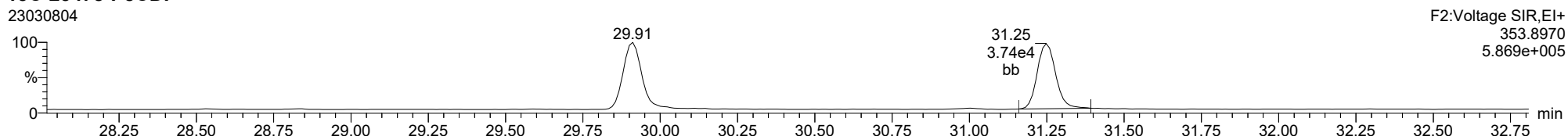
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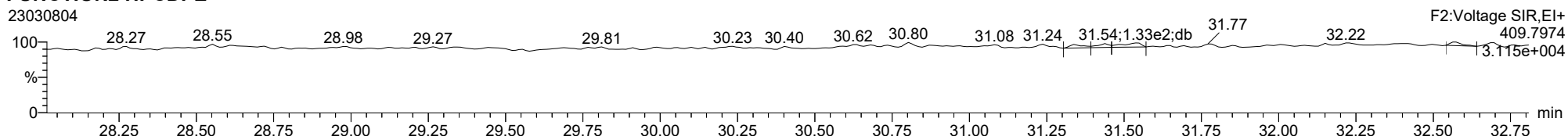
**13C-23478-PeCDF**



**13C-23478-PeCDF**



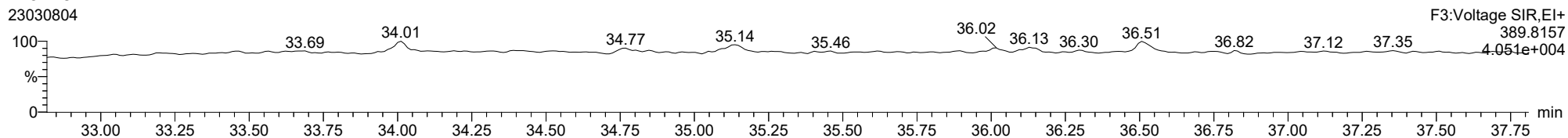
**FUNCTION2 HPCDPE**



ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

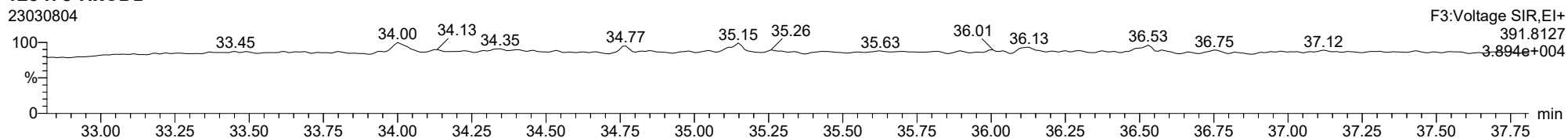
**123478-HxCDD**

23030804



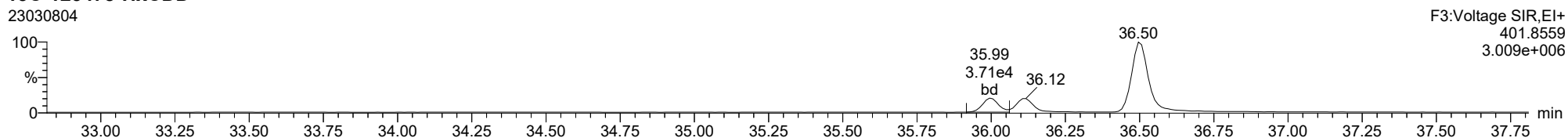
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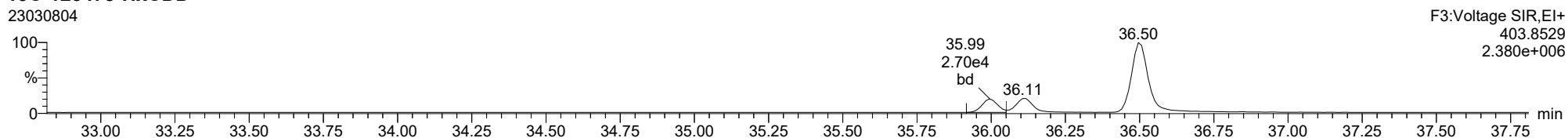
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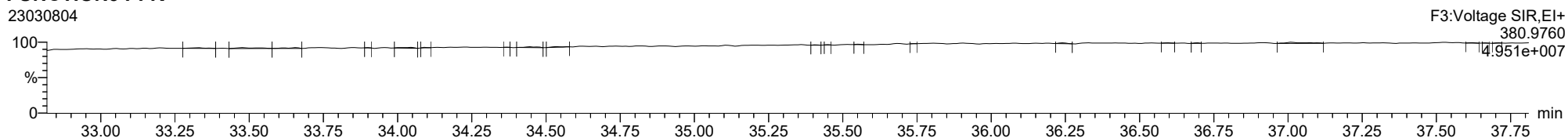
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**FUNCTION3 PFK**

23030804

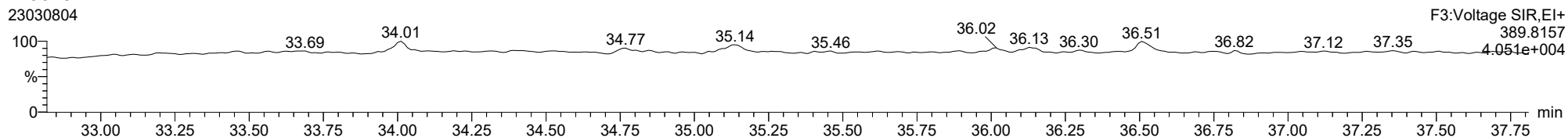




ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

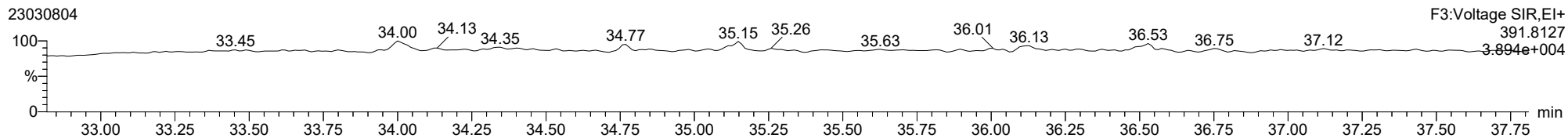
**123678-HxCDD**

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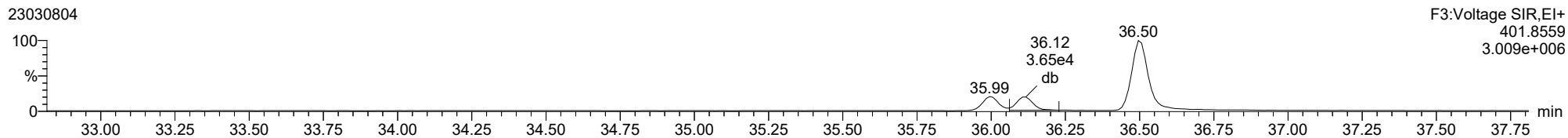
**123678-HxCDD**

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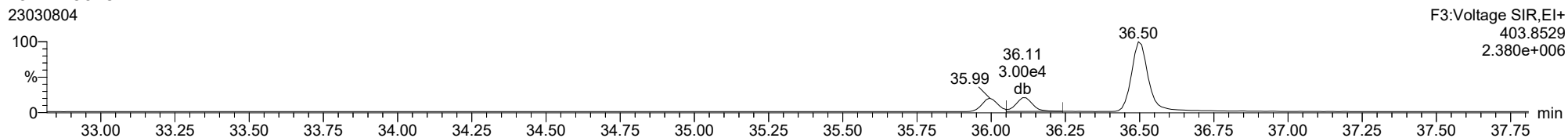
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**13C-123678-HxCDD**

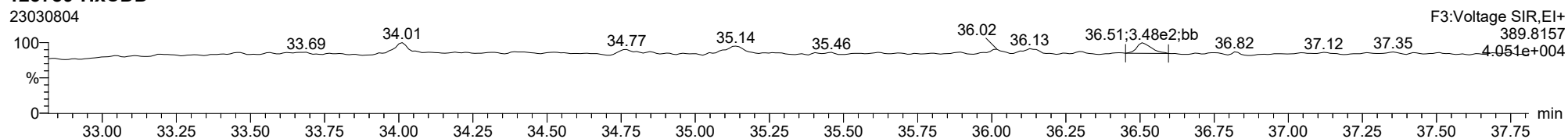
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ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

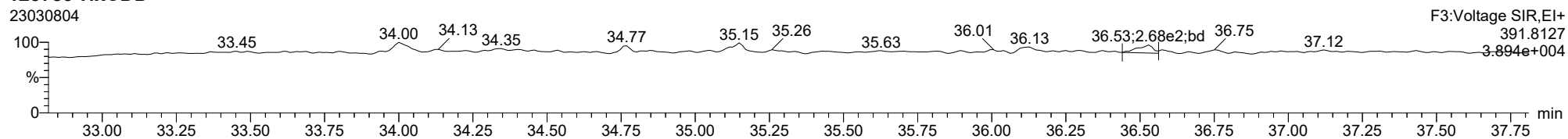
**123789-HxCDD**

23030804



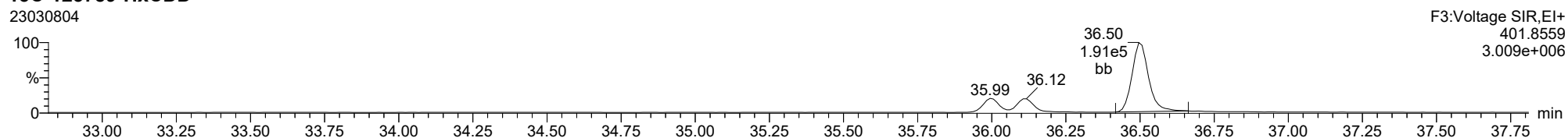
**123789-HxCDD**

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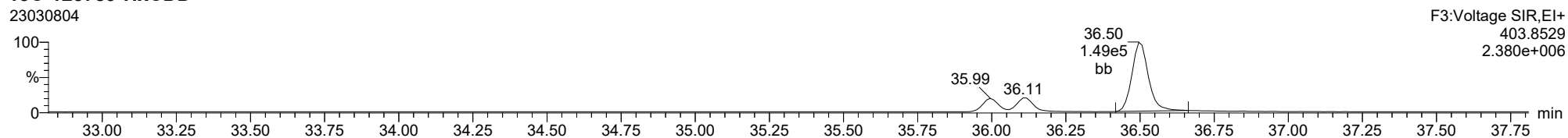
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**13C-123789-HxCDD**

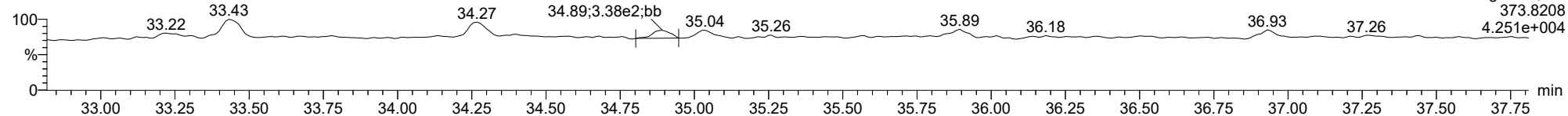
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ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

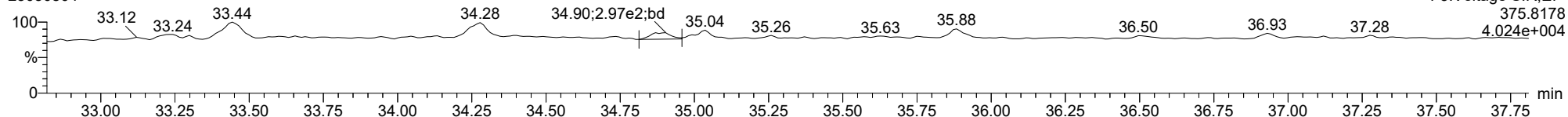
**123478-HxCDF**

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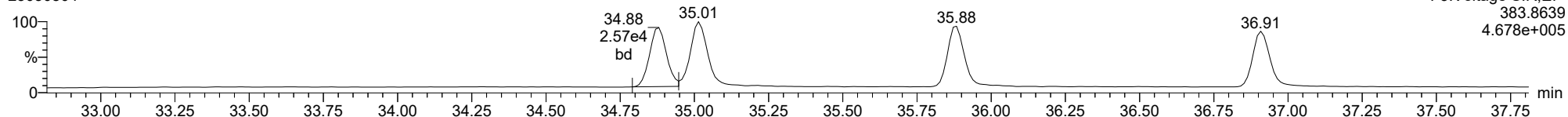
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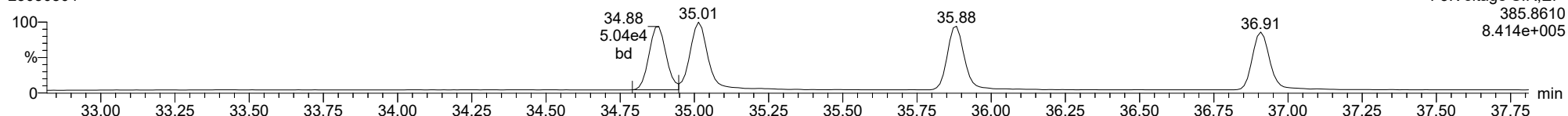
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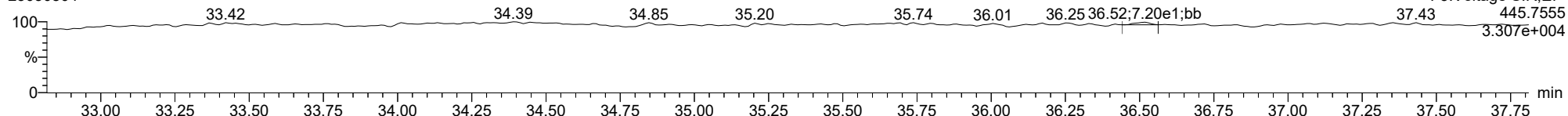
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**FUNCTION3 OCDPE**

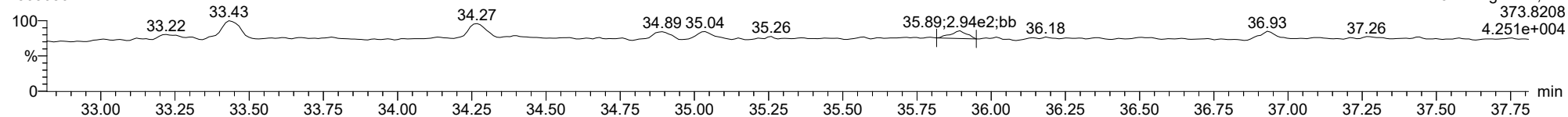
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ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

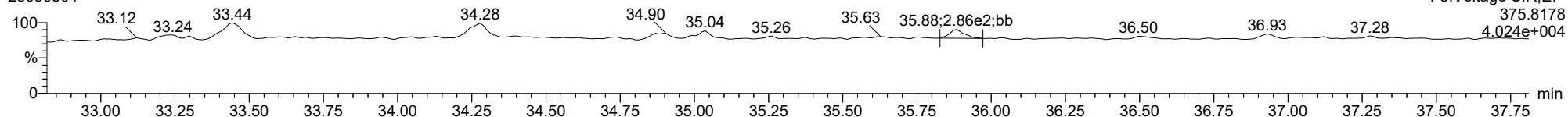
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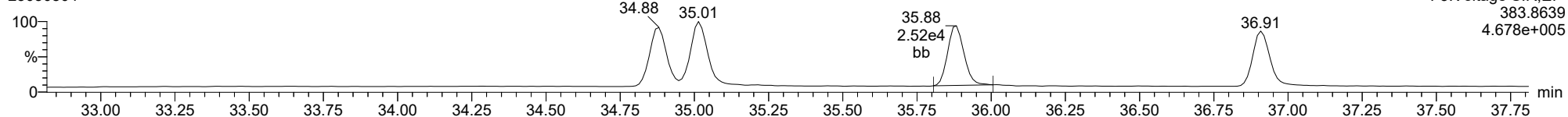
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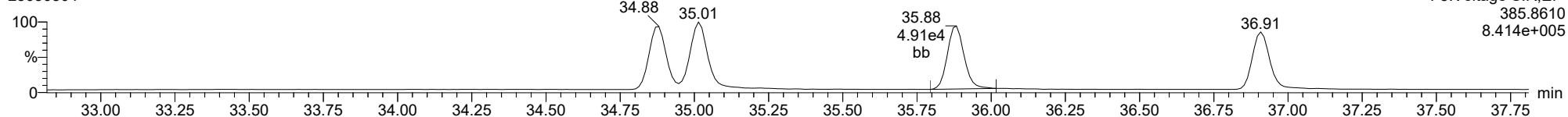
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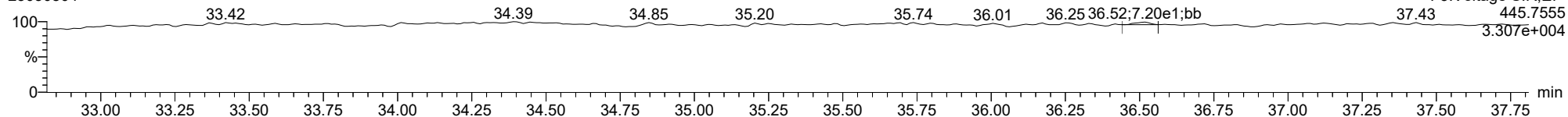
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**FUNCTION3 OCDPE**

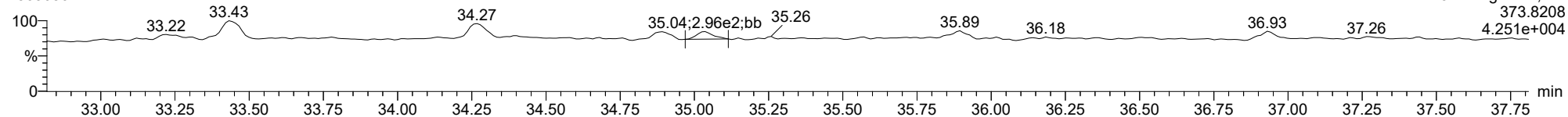
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ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

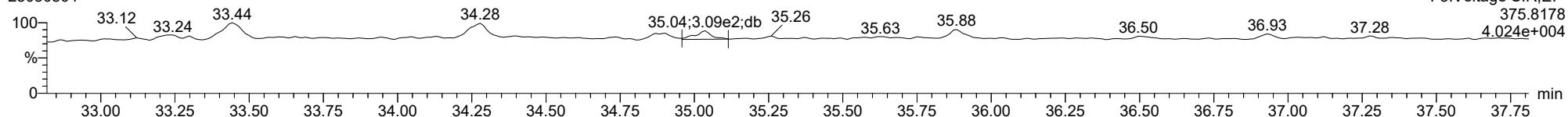
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23030804



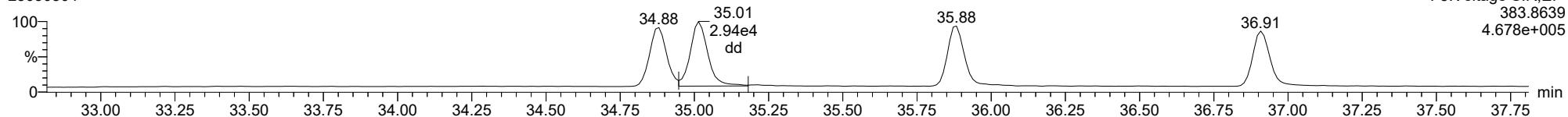
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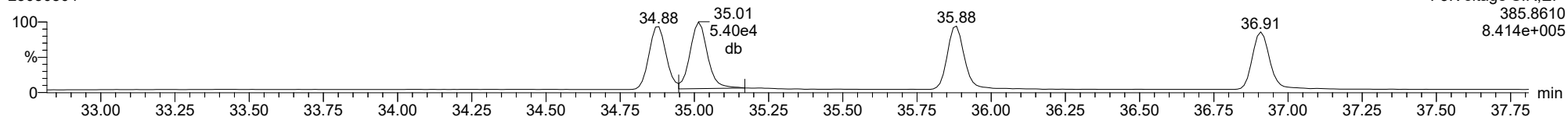
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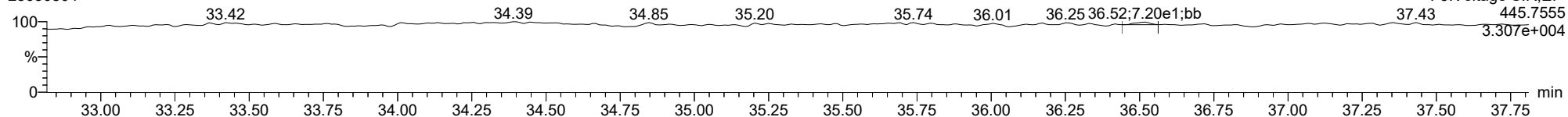
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23030804



**FUNCTION3 OCDPE**

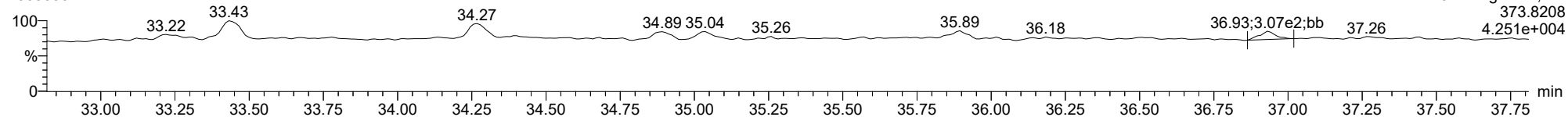
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ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

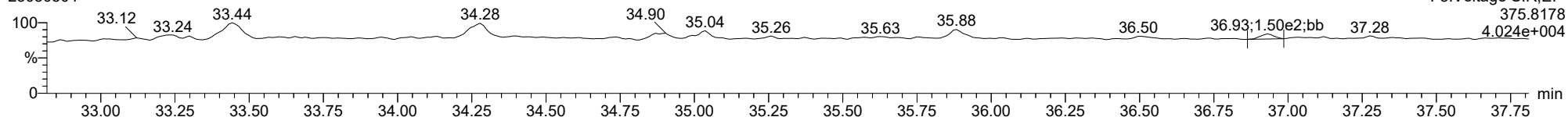
**123789-HxCDF**

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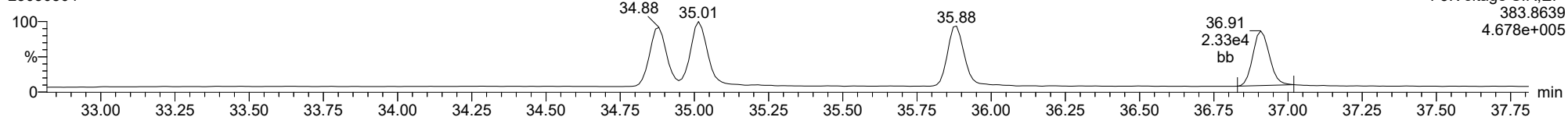
**123789-HxCDF**

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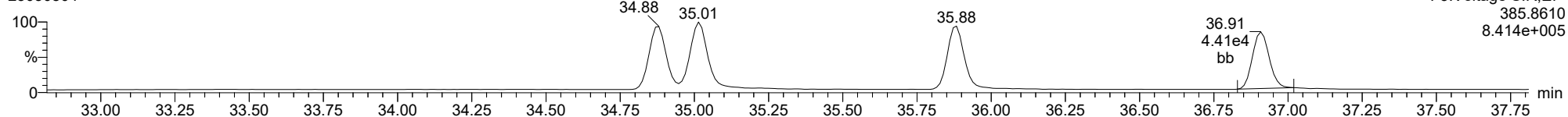
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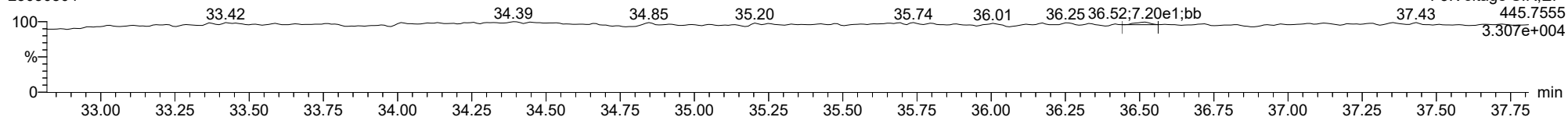
**13C-123789-HxCDF**

23030804



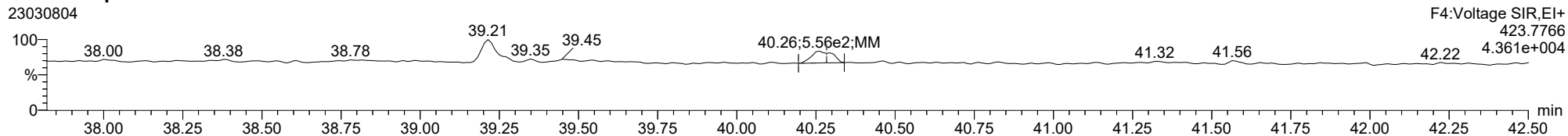
**FUNCTION3 OCDPE**

23030804

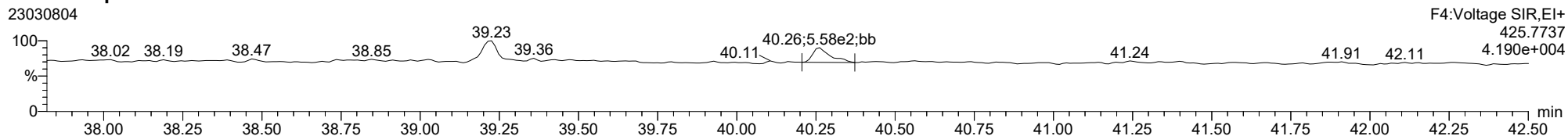


ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

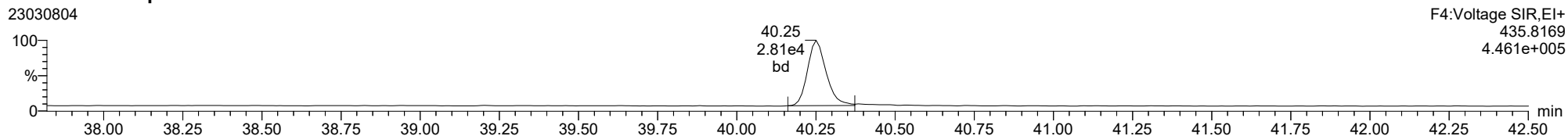
**1234678-HpCDD**



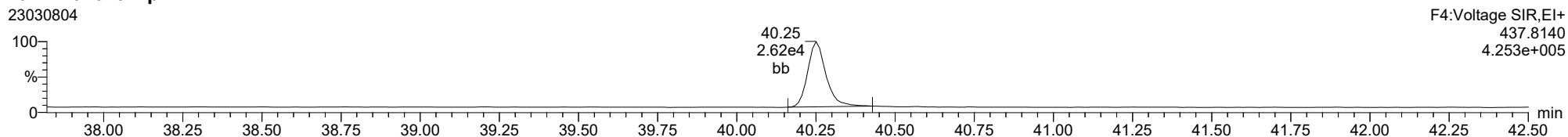
**1234678-HpCDD**



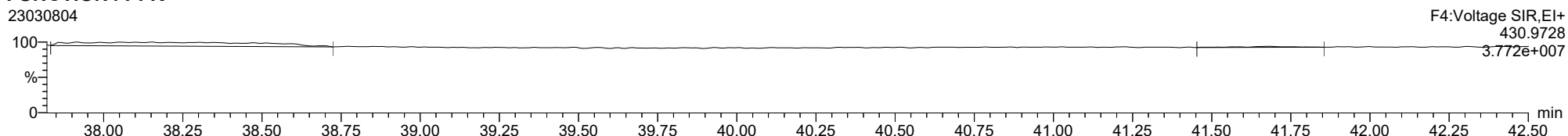
**13C-1234678-HpCDD**



**13C-1234678-HpCDD**

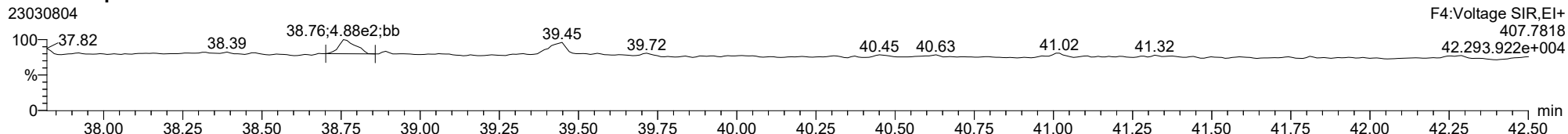


**FUNCTION4 PFK**

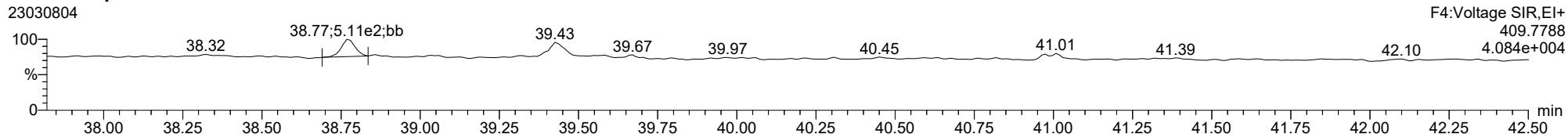


ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

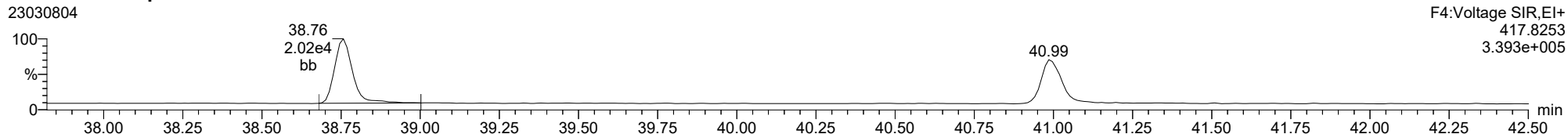
**1234678-HpCDF**



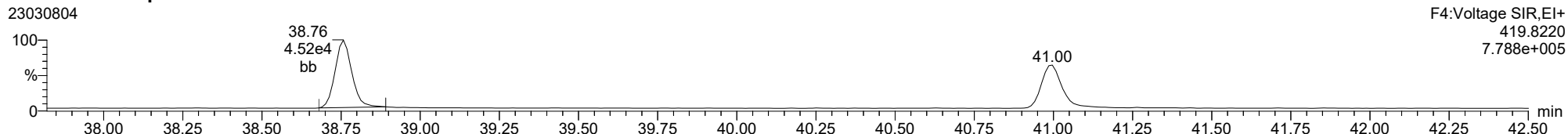
**1234678-HpCDF**



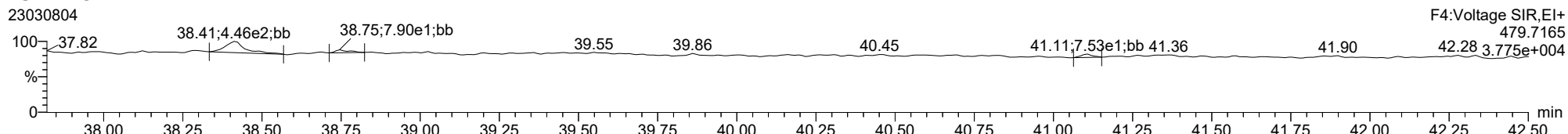
**13C-1234678-HpCDF**



**13C-1234678-HpCDF**



**FUNCTION4 NCDPE**

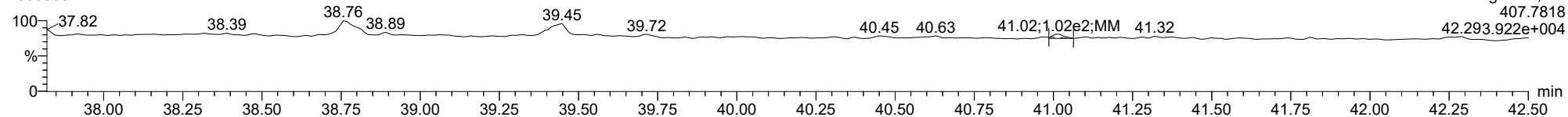




ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

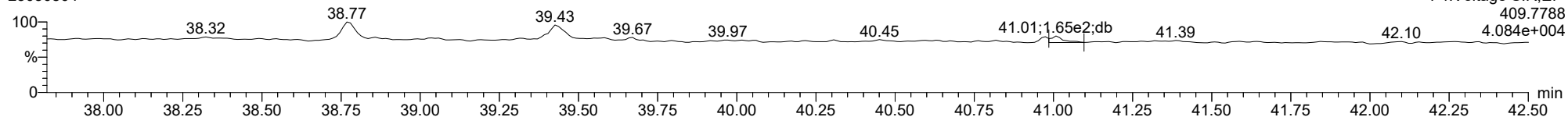
**1234789-HpCDF**

23030804



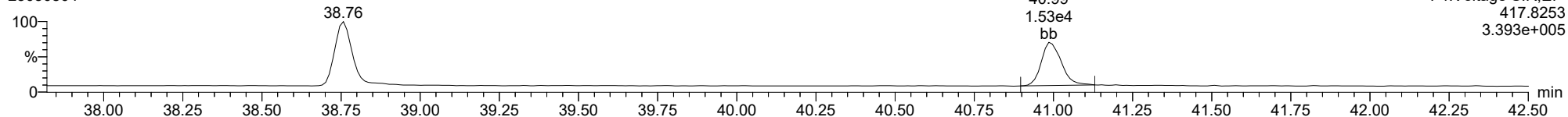
**1234789-HpCDF**

23030804



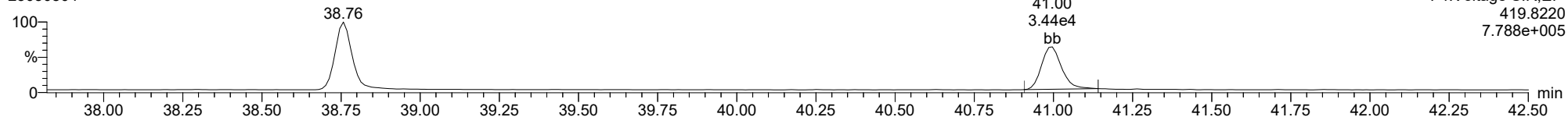
**13C-1234789-HpCDF**

23030804



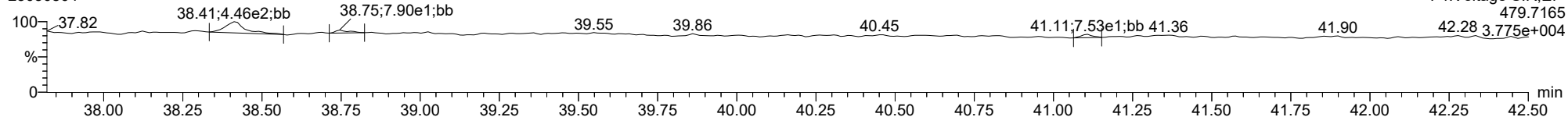
**13C-1234789-HpCDF**

23030804



**FUNCTION4 NCDPE**

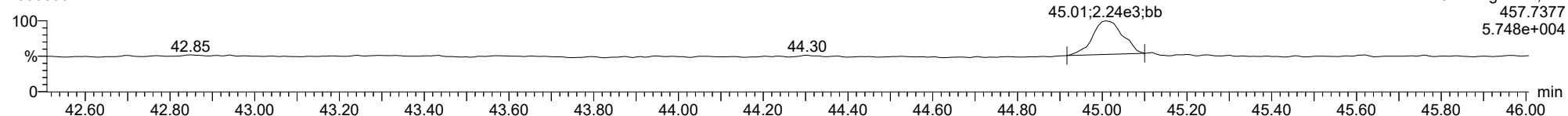
23030804



ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

**OCDD**

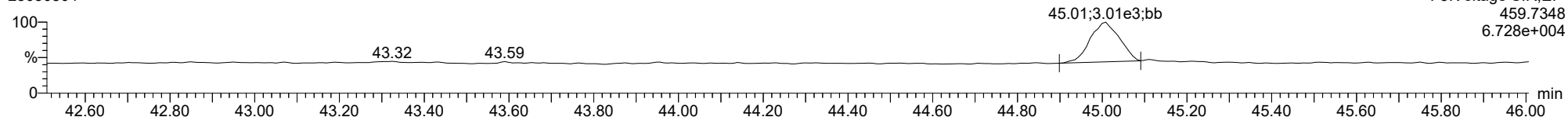
23030804



F5:Voltage SIR,EI+  
457.7377  
5.748e+004

**OCDD**

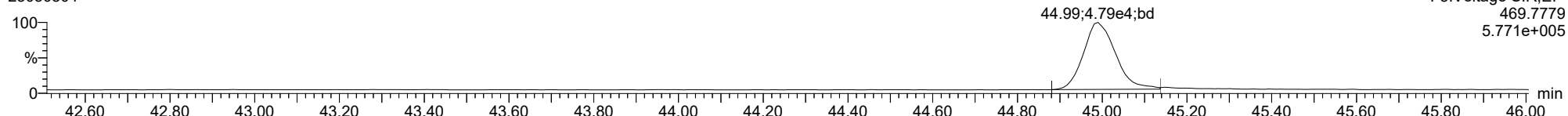
23030804



F5:Voltage SIR,EI+  
459.7348  
6.728e+004

**13C-OCDD**

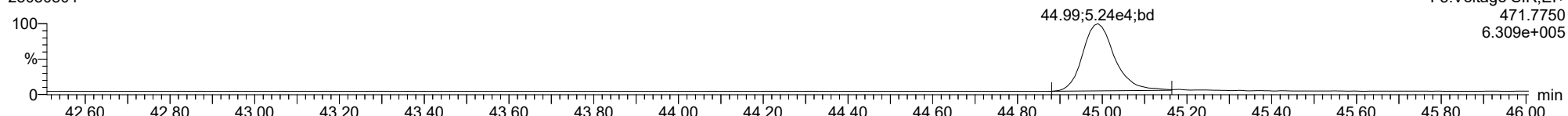
23030804



F5:Voltage SIR,EI+  
469.7779  
5.771e+005

**13C-OCDD**

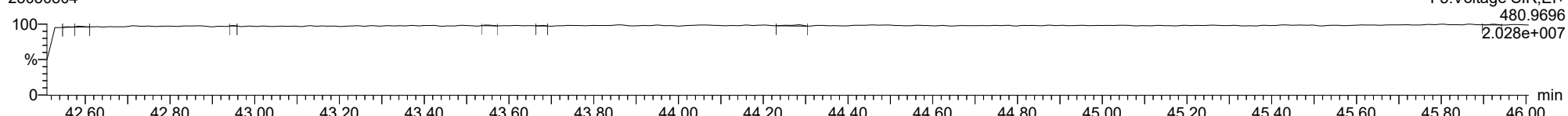
23030804



F5:Voltage SIR,EI+  
471.7750  
6.309e+005

**FUNCTION5 PFK**

23030804

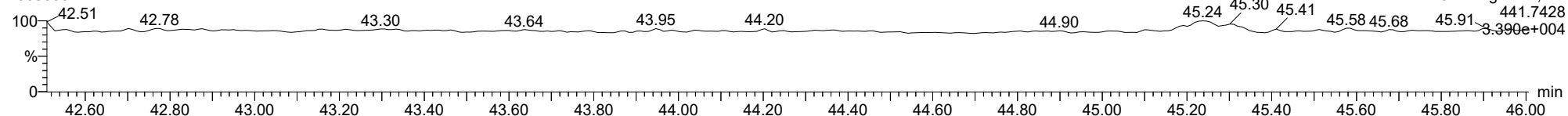


F5:Voltage SIR,EI+  
480.9696  
2.028e+007

ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

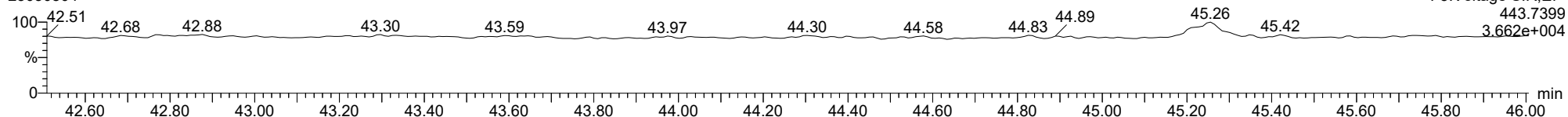
**OCDF**

23030804



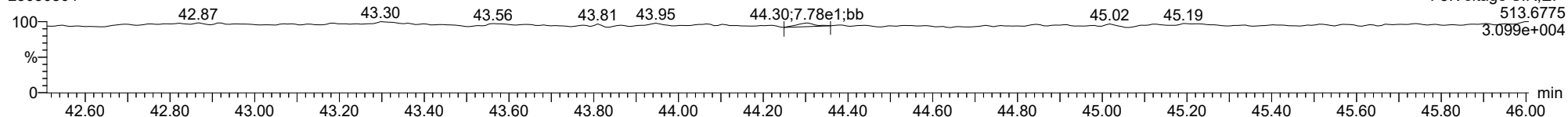
**OCDF**

23030804



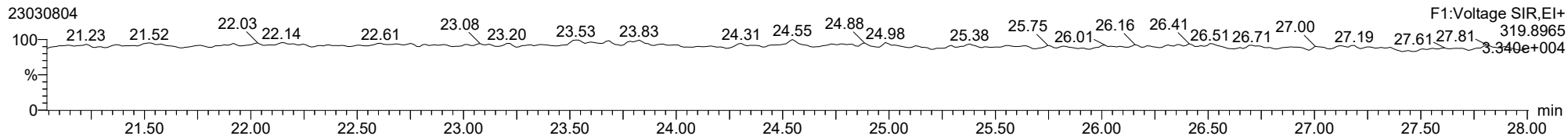
**FUNCTION5 DCDPE**

23030804

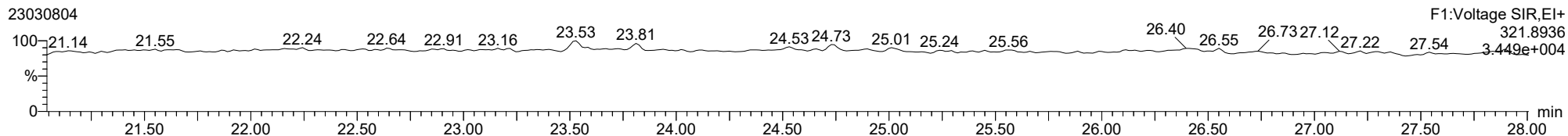


ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

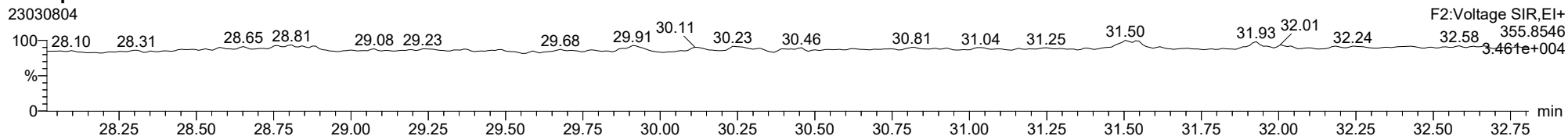
**Total-tetradioxins**



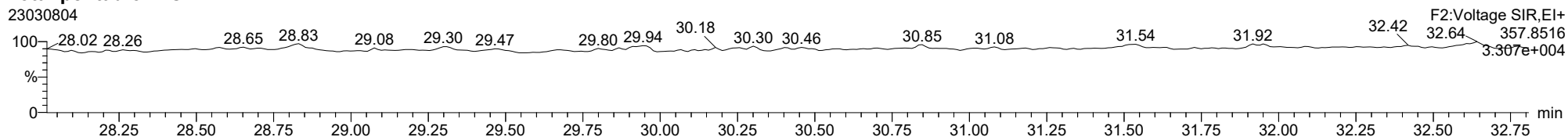
**Total-tetradioxins**



**Total-pentadioxins**



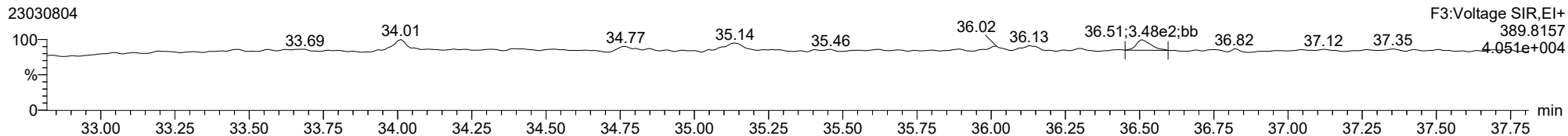
**Total-pentadioxins**



ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

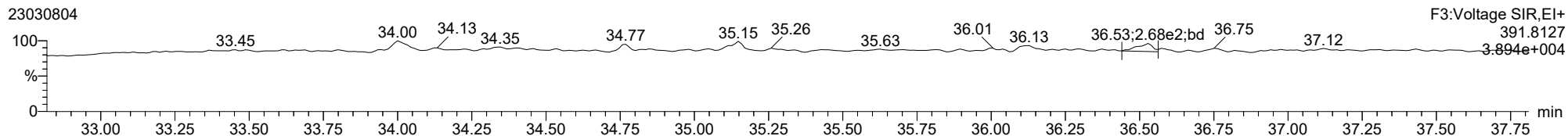
**Total-hexadioxins**

23030804



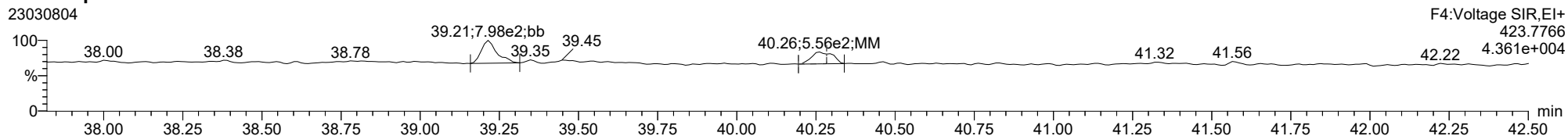
**Total-hexadioxins**

23030804



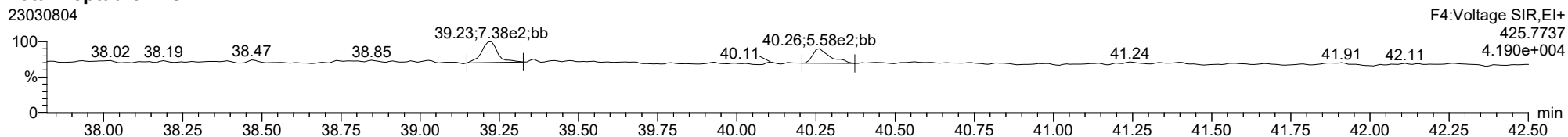
**Total-heptadioxins**

23030804



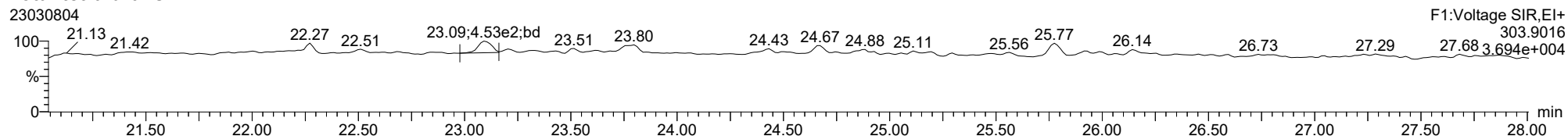
**Total-heptadioxins**

23030804

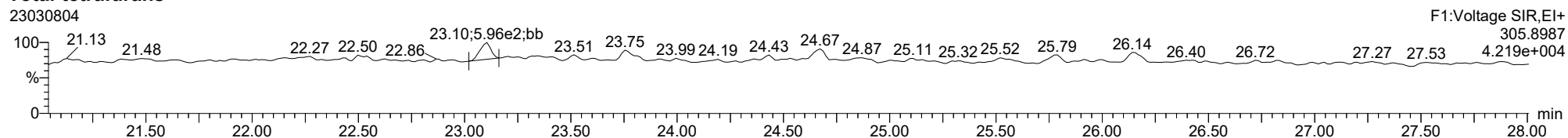


ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

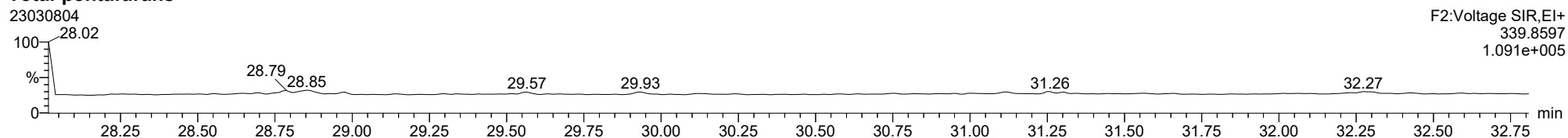
**Total-tetrafurans**



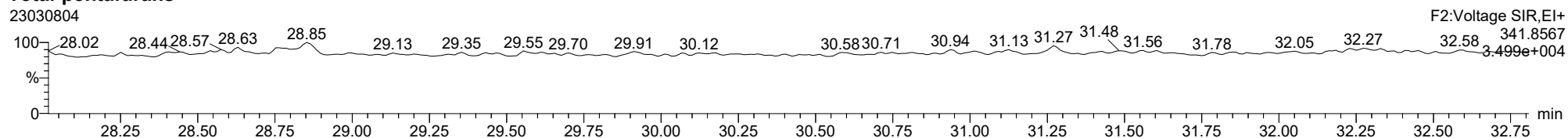
**Total-tetrafurans**



**Total-pentafurans**

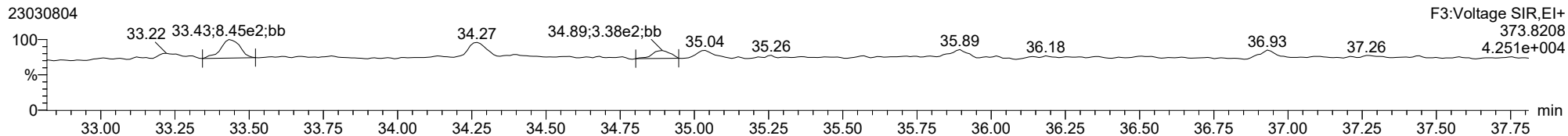


**Total-pentafurans**

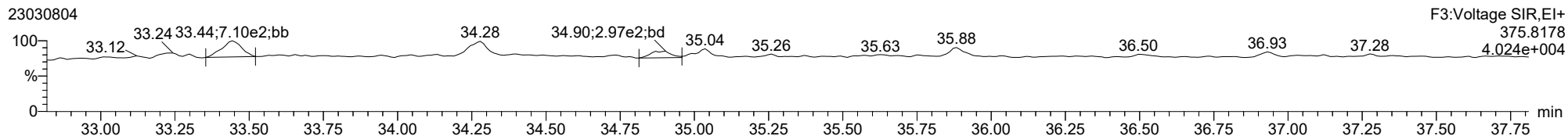


ID: 22L0246-44RE1, Name: 23030804, Date: 08-Mar-2023, Time: 12:19:10, Conditions: AUTOSPEC01, User: pk

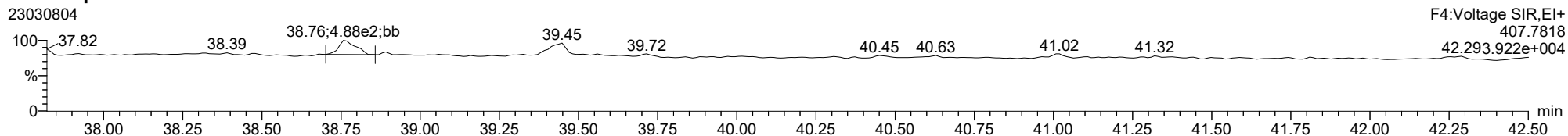
**Total-hexafurans**



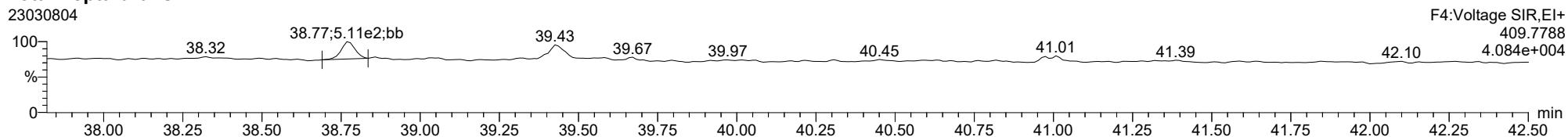
**Total-hexafurans**



**Total-heptafurans**



**Total-heptafurans**





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-45 A File ID: 23020130  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 13:05  
 % Solids: 81.54 Preparation: EPA 1613 Initial/Final: 12.26 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1		0.655-0.886	11.0	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1		0.655-0.886	10.9	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1		1.318-1.783	12.0	1.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1		1.318-1.783	11.7	1.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1		1.318-1.783	13.0	1.00	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.907	1.054-1.426	8.85	1.00	13.1	ng/kg	EMPC
57117-44-9	1,2,3,6,7,8-HxCDF	1		1.054-1.426	7.99	1.00	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.736	1.054-1.426	7.91	1.00	10.6	ng/kg	EMPC
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.509	1.054-1.426	9.77	1.00	9.54	ng/kg	EMPC
39227-28-6	1,2,3,4,7,8-HxCDD	1		1.054-1.426	10.4	1.00	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1		1.054-1.426	9.66	1.00	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.794	1.054-1.426	10.2	1.00	21.2	ng/kg	EMPC
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.355	0.893-1.208	7.44	1.00	26.1	ng/kg	EMPC, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.526	0.893-1.208	8.75	1.00	11.9	ng/kg	EMPC
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.994	0.893-1.208	10.7	2.50	34.8	ng/kg	B
39001-02-0	OCDF	1	0.892	0.757-1.024	15.3	2.50	80.1	ng/kg	B
3268-87-9	OCDD	1	0.894	0.757-1.024	12.2	10.0	211	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	ND	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	ND	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	42.8	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	62.5	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 6.26  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 22.10





**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-45</u>
Sampled:	<u>12/09/22 11:44</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>81.54</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020130</u>
		Analyzed:	<u>02/02/23 13:05</u>
		Initial/Final:	<u>12.26 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.748	0.655-0.886	11.3	64.2	24 - 169 %	
13C12-2,3,7,8-TCDD		0.843	0.655-0.886	12.3	80.0	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.453	1.318-1.783	5.69	73.0	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.624	1.318-1.783	5.93	75.1	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.422	1.318-1.783	9.98	71.6	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.453	0.434-0.587	5.42	69.8	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.543	0.434-0.587	5.29	67.8	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.549	0.434-0.587	5.63	71.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.534	0.434-0.587	6.15	65.2	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.340	1.054-1.426	8.67	65.4	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.260	1.054-1.426	8.39	71.0	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.501	0.374-0.506	6.92	70.1	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.405	0.374-0.506	7.92	66.9	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.166	0.893-1.208	8.43	78.0	23 - 140 %	
13C12-OCDD		0.942	0.757-1.024	7.71	76.4	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		5.98	73.2	35 - 197 %	

\* Values outside of QC limits

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40**

**ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.876		0.770	1171	1517								
12378-PeCDF					0.845		1.550	1119	1737								
23478-PeCDF					0.911		1.550	1119	1737								
123478-HxCDF	35.006	1.001	3.219e2	3.549e2	1.182	0.907	1.240	1252	1214	5.34e3	4.03e3	4.3	3.3	YES	bb	bb	6.566
234678-HxCDF	35.987	1.000	2.380e2	3.236e2	1.229	0.736	1.240	1252	1214	5.23e3	4.17e3	4.2	3.4	YES	db	db	5.307
123678-HxCDF					1.248		1.240	1252	1214								
123789-HxCDF	37.012	1.000	2.441e2	1.618e2	1.187	1.509	1.240	1252	1214	4.47e3	4.34e3	3.6	3.6	YES	bb	bb	4.768
1234678-HpCDF	38.839	1.000	7.770e2	5.735e2	1.204	1.355	1.050	805	1012	1.34e4	8.29e3	16.6	8.2	YES	bb	bb	13.023
1234789-HpCDF	41.123	1.001	1.711e2	3.253e2	1.165	0.526	1.050	805	1012	2.72e3	4.65e3	3.4	4.6	YES	bd	bb	5.935
OCDF	45.376	1.006	1.600e3	1.794e3	1.186	0.892	0.890	1136	1333	1.96e4	2.03e4	17.2	15.3	NO	MM	bb	40.044
2378-TCDD					1.236		0.770	1554	1122								
12378-PeCDD					1.087		1.550	1320	1030								
123478-HxCDD					0.987		1.240	979	1269								
123678-HxCDD					1.021		1.240	979	1269								
123789-HxCDD	36.588	1.010	3.555e2	4.479e2	0.985	0.794	1.240	979	1269	7.39e3	7.48e3	7.5	5.9	YES	bd	bb	10.618
1234678-HpCDD	40.354	1.001	7.864e2	7.908e2	1.253	0.994	1.050	1313	1244	1.29e4	1.46e4	9.8	11.7	NO	bd	bb	17.416
OCDD	45.111	1.000	3.916e3	4.379e3	1.103	0.894	0.890	753	1081	4.78e4	5.16e4	63.5	47.7	NO	bb	bb	105.298
13C-2378-TCDF	25.882	1.006	4.775e3	6.382e3	1.768	0.748	0.770	3114	1731	7.16e4	9.75e4	23.0	56.3	NO	bb	bb	64.250
13C-12378-PeCDF	30.026	1.168	6.486e3	4.465e3	1.527	1.453	1.550	982	1126	9.99e4	7.14e4	101.7	63.4	NO	bb	bb	73.008
13C-23478-PeCDF	31.363	1.220	6.691e3	4.120e3	1.466	1.624	1.550	982	1126	9.91e4	6.39e4	101.0	56.7	NO	bb	bb	75.065
13C-123478-HxCDF	34.973	0.956	2.719e3	6.004e3	1.054	0.453	0.510	739	1154	4.41e4	9.82e4	59.7	85.2	NO	bd	bd	69.807
13C-123678-HxCDF	35.106	0.960	3.056e3	5.629e3	1.080	0.543	0.510	739	1154	5.22e4	9.08e4	70.7	78.7	NO	db	db	67.818
13C-234678-HxCDF	35.975	0.983	3.054e3	5.558e3	1.014	0.549	0.510	739	1154	5.40e4	9.19e4	73.0	79.6	NO	bb	bb	71.595
13C-123789-HxCDF	37.000	1.011	2.498e3	4.678e3	0.928	0.534	0.510	739	1154	4.44e4	8.00e4	60.1	69.3	NO	bb	bb	65.207
13C-1234678-HpCDF	38.828	1.061	2.874e3	5.739e3	1.036	0.501	0.440	1080	1296	4.06e4	8.94e4	37.6	69.0	NO	bb	MM	70.096
13C-1234789-HpCDF	41.078	1.123	2.070e3	5.108e3	0.905	0.405	0.440	1080	1296	3.09e4	7.24e4	28.6	55.9	NO	bb	bb	66.889
13C-1234-TCDD	25.715	0.000	4.445e3	5.377e3	1.000	0.827	0.770	2095	1184	6.59e4	7.78e4	31.4	65.7	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.031	3.964e3	4.704e3	1.103	0.843	0.770	2095	1184	5.43e4	7.37e4	25.9	62.3	NO	bb	bb	80.015
13C-12378-PeCDD	31.619	1.230	3.776e3	2.654e3	0.914	1.422	1.550	1221	991	5.86e4	4.02e4	48.0	40.6	NO	bb	bb	71.611
13C-123478-HxCDD	36.087	0.986	4.143e3	3.092e3	0.933	1.340	1.240	1242	1440	7.51e4	5.27e4	60.4	36.6	NO	bd	bd	65.396
13C-123678-HxCDD	36.209	0.990	4.527e3	3.592e3	0.965	1.260	1.240	1242	1440	7.63e4	5.30e4	61.4	36.8	NO	db	db	70.977
13C-1234678-HpCDD	40.332	1.102	3.892e3	3.338e3	0.782	1.166	1.050	1127	1059	6.19e4	5.56e4	54.9	52.5	NO	bb	bb	77.963
13C-OCDD	45.102	1.233	6.931e3	7.358e3	0.788	0.942	0.890	970	1045	7.94e4	8.50e4	81.8	81.4	NO	bb	bb	152.865
13C-123789-HxCDD	36.588	0.000	6.524e3	5.334e3	1.000	1.223	1.240	1242	1440	1.09e5	8.81e4	88.1	61.2	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	3.549e3		1.233			1790		5.18e4		28.9			bb		29.297

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	1171	1517								
1289-TCDF					0.858		0.770	1171	1517								
13468-PECDF					1.013		1.550	995	1470								
12389-PECDF					0.844		1.550	1119	1737								
123468-HXCDF					1.197		1.240	1252	1214								
1368-TCDD					1.084		0.770	1554	1122								
1289-TCDD					0.975		0.770	1554	1122								
12479-PECDD					1.837		1.550	1320	1030								
12389-PECDD					1.252		1.550	1320	1030								
124679-HXCDD	34.104	0.945	1.002e2	1.419e2	1.033	0.706	1.240	979	1269	1.84e3	2.96e3	1.9	2.3	YES	bb	bb	3.239
1234679-HPCDD	39.296	0.974	6.404e2	6.465e2	1.286	0.991	1.050	1313	1244	1.02e4	8.35e3	7.8	6.7	NO	bb	bd	13.841
Total-tetrafurans			0.000e0		0.933			1171		0.00e0							
Total-penta1			0.000e0					995		0.00e0							
Total-pentafurans			0.000e0		0.866			1119		0.00e0							
Total-hexafurans			0.000e0		1.208			1252		0.00e0							
Total-heptafurans			9.741e2		1.185			805		1.89e4							21.377
Total-Furans			2.574e3		1.067			1171		3.85e4							61.421
Total-tetradoxins			0.000e0		1.099			1554		0.00e0							
Total-pentadoxins			0.000e0		1.392			1320		0.00e0							
Total-hexadoxins			0.000e0		1.007			979		0.00e0							
Total-heptadoxins			1.427e3		1.269			1313		2.31e4							31.258
Total-Dioxins			5.343e3		1.165			1554		7.09e4							136.556
Total-TEQ			7.917e3					1554		1.09e5							197.977
FUNCTION1 PFK			1.642e6					1014640		4.33e7							
FUNCTION2 PFK			0.000e0					696373		0.00e0							
FUNCTION3 PFK			5.886e5					480161		1.57e7							0.000
FUNCTION4 PFK			3.762e5					319947		9.82e6							
FUNCTION5 PFK			7.350e6					183838		3.55e7							
FUNCTION1 HXCD...			1.672e3					815		2.64e4							0.000
FUNCTION1 HPCD...			1.892e3					960		3.42e4							0.000
FUNCTION2 HPCD...			1.046e3					1290		2.49e4							0.000
FUNCTION3 OCDPE			1.036e3					1148		2.07e4							0.000
FUNCTION4 NCDPE			1.251e3					1201		2.68e4							0.000
FUNCTION5 DCDPE			7.169e1					895		1.68e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

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**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.52	9.741e2	1.025e3	1.185	0.95	1.05	23.5	YES	NO	bb	bb	21.377

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.52	9.741e2	1.025e3	1.185	0.95	1.05	23.5	YES	NO	bb	bb	21.377
2	OCDF	45.38	1.600e3	1.794e3	1.186	0.89	0.89	17.2	YES	NO	MM	bb	40.044

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

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**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	7.864e2	7.908e2	1.253	0.99	1.05	9.8	YES	NO	bd	bb	17.416
2	1234679-HPCDD	39.30	6.404e2	6.465e2	1.286	0.99	1.05	7.8	YES	NO	bb	bd	13.841

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	OCDD	45.11	3.916e3	4.379e3	1.103	0.89	0.89	63.5	YES	NO	bb	bb	105.298
2	1234678-HpCDD	40.35	7.864e2	7.908e2	1.253	0.99	1.05	9.8	YES	NO	bd	bb	17.416
3	1234679-HPCDD	39.30	6.404e2	6.465e2	1.286	0.99	1.05	7.8	YES	NO	bb	bd	13.841

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.52	9.741e2	1.025e3	1.185	0.95	1.05	23.5	YES	NO	bb	bb	21.377
2	OCDF	45.38	1.600e3	1.794e3	1.186	0.89	0.89	17.2	YES	NO	MM	bb	40.044
3	OCDD	45.11	3.916e3	4.379e3	1.103	0.89	0.89	63.5	YES	NO	bb	bb	105.298
4	1234678-HpCDD	40.35	7.864e2	7.908e2	1.253	0.99	1.05	9.8	YES	NO	bd	bb	17.416
5	1234679-HPCDD	39.30	6.404e2	6.465e2	1.286	0.99	1.05	7.8	YES	NO	bb	bd	13.841

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.40	1.677e4					0.6	NO		bb		
2	FUNCTION1 PFK	23.33	9.136e3					0.6	NO		bb		
3	FUNCTION1 PFK	23.25	5.938e4					0.9	NO		bb		
4	FUNCTION1 PFK	23.05	4.737e4					1.4	NO		bb		
5	FUNCTION1 PFK	22.93	6.801e4					1.5	NO		bb		
6	FUNCTION1 PFK	22.81	9.227e4					1.4	NO		bb		
7	FUNCTION1 PFK	22.74	4.373e4					1.3	NO		bb		
8	FUNCTION1 PFK	22.66	4.284e4					1.3	NO		bb		
9	FUNCTION1 PFK	22.39	1.012e5					2.0	NO		bb		
10	FUNCTION1 PFK	22.31	2.017e4					0.7	NO		bb		
11	FUNCTION1 PFK	22.15	9.968e4					1.6	NO		db		
12	FUNCTION1 PFK	22.13	5.024e4					1.6	NO		bd		
13	FUNCTION1 PFK	22.06	1.808e4					0.8	NO		bb		
14	FUNCTION1 PFK	21.72	1.458e4					0.6	NO		bb		
15	FUNCTION1 PFK	21.65	1.895e4					0.7	NO		bb		
16	FUNCTION1 PFK	21.51	6.983e3					0.5	NO		bb		
17	FUNCTION1 PFK	26.64	5.198e4					1.2	NO		bd		
18	FUNCTION1 PFK	26.29	5.860e4					0.9	NO		bb		
19	FUNCTION1 PFK	26.18	4.127e4					1.1	NO		db		
20	FUNCTION1 PFK	26.12	4.421e4					1.1	NO		bd		
21	FUNCTION1 PFK	25.91	1.495e4					0.5	NO		bb		
22	FUNCTION1 PFK	25.79	2.727e4					0.8	NO		bb		
23	FUNCTION1 PFK	25.59	8.213e3					0.5	NO		bb		
24	FUNCTION1 PFK	25.47	3.726e4					1.2	NO		bb		
25	FUNCTION1 PFK	25.34	5.938e3					0.4	NO		bb		
26	FUNCTION1 PFK	25.20	2.157e4					0.7	NO		db		
27	FUNCTION1 PFK	25.16	2.917e4					0.9	NO		dd		
28	FUNCTION1 PFK	25.08	2.550e4					0.7	NO		bd		
29	FUNCTION1 PFK	24.96	1.915e4					0.6	NO		bb		
30	FUNCTION1 PFK	24.81	2.080e4					0.7	NO		bb		
31	FUNCTION1 PFK	24.73	2.019e4					0.6	NO		bb		
32	FUNCTION1 PFK	23.78	1.144e4					0.4	NO		bb		
33	FUNCTION1 PFK	27.98	1.598e4					0.7	NO		bb		
34	FUNCTION1 PFK	27.92	1.675e4					0.5	NO		db		
35	FUNCTION1 PFK	27.85	2.980e4					0.7	NO		bd		
36	FUNCTION1 PFK	27.77	1.924e4					0.6	NO		bb		
37	FUNCTION1 PFK	27.70	5.855e3					0.4	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	27.64	3.357e4					1.0	NO		db		
39	FUNCTION1 PFK	27.58	2.762e4					0.9	NO		bd		
40	FUNCTION1 PFK	27.50	1.675e4					0.5	NO		bb		
41	FUNCTION1 PFK	27.38	3.244e4					0.9	NO		bb		
42	FUNCTION1 PFK	27.24	4.082e4					1.1	NO		db		
43	FUNCTION1 PFK	27.18	6.584e4					1.6	NO		dd		
44	FUNCTION1 PFK	27.12	6.663e4					1.5	NO		dd		
45	FUNCTION1 PFK	27.08	8.129e4					1.6	NO		bd		
46	FUNCTION1 PFK	26.70	4.298e4					1.0	NO		db		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.89	7.826e3					0.8	NO		bb		0.000
2	FUNCTION3 PFK	35.70	1.921e3					0.4	NO		bb		0.000
3	FUNCTION3 PFK	35.61	9.464e3					0.8	NO		bb		0.000
4	FUNCTION3 PFK	35.46	4.356e4					1.9	NO		bb		0.000
5	FUNCTION3 PFK	35.35	1.723e4					1.0	NO		bb		0.000
6	FUNCTION3 PFK	35.27	2.347e4					1.2	NO		bb		0.000
7	FUNCTION3 PFK	35.15	2.595e4					1.0	NO		bb		0.000
8	FUNCTION3 PFK	35.05	1.192e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	34.89	8.622e3					0.7	NO		bb		0.000
10	FUNCTION3 PFK	34.77	2.254e4					1.4	NO		bb		0.000
11	FUNCTION3 PFK	34.56	3.421e4					1.1	NO		bb		0.000
12	FUNCTION3 PFK	33.70	7.551e3					0.5	NO		bb		0.000
13	FUNCTION3 PFK	33.48	2.787e4					1.5	NO		db		0.000
14	FUNCTION3 PFK	33.44	7.857e3					0.8	NO		bd		0.000
15	FUNCTION3 PFK	33.27	3.651e4					1.8	NO		db		0.000
16	FUNCTION3 PFK	33.20	2.556e4					1.4	NO		bd		0.000
17	FUNCTION3 PFK	37.85	7.385e3					0.6	NO		db		0.000
18	FUNCTION3 PFK	37.80	1.523e4					1.0	NO		bd		0.000
19	FUNCTION3 PFK	37.71	1.048e4					0.8	NO		bb		0.000
20	FUNCTION3 PFK	37.52	2.966e4					1.6	NO		bb		0.000
21	FUNCTION3 PFK	37.45	6.620e3					0.7	NO		bb		0.000
22	FUNCTION3 PFK	37.28	1.790e4					1.4	NO		bb		0.000
23	FUNCTION3 PFK	37.15	2.436e4					1.3	NO		bb		0.000
24	FUNCTION3 PFK	37.08	2.013e4					1.9	NO		db		0.000
25	FUNCTION3 PFK	37.04	6.202e4					2.2	NO		bd		0.000
26	FUNCTION3 PFK	36.32	1.786e4					0.8	NO		bb		0.000
27	FUNCTION3 PFK	36.15	7.788e3					0.8	NO		db		0.000
28	FUNCTION3 PFK	36.12	1.295e4					0.9	NO		bd		0.000
29	FUNCTION3 PFK	35.93	4.418e4					1.3	NO		bb		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.30	2.368e3					0.7	NO		bb		
2	FUNCTION4 PFK	38.26	1.332e4					1.5	NO		bb		
3	FUNCTION4 PFK	42.15	1.744e4					2.0	NO		bd		
4	FUNCTION4 PFK	41.88	1.500e4					1.0	NO		bb		
5	FUNCTION4 PFK	41.31	1.522e4					1.0	NO		bb		
6	FUNCTION4 PFK	40.71	4.103e3					0.7	NO		bb		
7	FUNCTION4 PFK	40.42	7.718e3					0.6	NO		bb		
8	FUNCTION4 PFK	40.38	1.825e4					2.0	NO		bb		
9	FUNCTION4 PFK	40.20	4.282e4					2.4	NO		db		
10	FUNCTION4 PFK	40.12	2.467e4					1.7	NO		bd		
11	FUNCTION4 PFK	39.74	1.479e4					1.3	NO		bb		
12	FUNCTION4 PFK	39.63	2.527e4					1.6	NO		bb		
13	FUNCTION4 PFK	39.42	1.538e4					1.6	NO		bb		
14	FUNCTION4 PFK	39.32	1.687e3					0.5	NO		bb		
15	FUNCTION4 PFK	39.13	4.153e4					2.6	NO		bb		
16	FUNCTION4 PFK	39.04	1.646e3					0.5	NO		bb		
17	FUNCTION4 PFK	38.84	6.494e3					1.0	NO		bb		
18	FUNCTION4 PFK	38.69	1.752e4					1.4	NO		bb		
19	FUNCTION4 PFK	42.77	2.893e4					2.0	NO		bb		
20	FUNCTION4 PFK	42.65	1.907e4					1.5	NO		bb		
21	FUNCTION4 PFK	42.50	1.000e4					1.1	NO		bb		
22	FUNCTION4 PFK	42.46	4.072e3					0.7	NO		bb		
23	FUNCTION4 PFK	42.25	2.889e4					1.3	NO		db		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:07 Pacific Standard Time

ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.06	1.624e4					1.9	NO		bb		
2	FUNCTION5 PFK	44.97	5.794e3					1.5	NO		bb		
3	FUNCTION5 PFK	44.81	7.012e2					0.4	NO		bb		
4	FUNCTION5 PFK	44.45	2.904e3					0.8	NO		bb		
5	FUNCTION5 PFK	44.24	3.248e3					0.9	NO		bb		
6	FUNCTION5 PFK	44.06	8.624e5					7.4	YES		db		
7	FUNCTION5 PFK	43.68	8.105e5					29.9	YES		dd		
8	FUNCTION5 PFK	43.55	5.412e5					38.6	YES		dd		
9	FUNCTION5 PFK	43.44	2.848e6					45.2	YES		dd		
10	FUNCTION5 PFK	43.17	2.249e6					61.8	YES		bd		
11	FUNCTION5 PFK	46.42	9.268e2					0.5	NO		bb		
12	FUNCTION5 PFK	46.33	9.309e2					0.6	NO		bb		
13	FUNCTION5 PFK	46.06	7.009e2					0.4	NO		bb		
14	FUNCTION5 PFK	46.02	2.991e3					0.8	NO		bb		
15	FUNCTION5 PFK	45.97	1.837e3					0.6	NO		bb		
16	FUNCTION5 PFK	45.76	1.544e3					0.7	NO		bb		
17	FUNCTION5 PFK	45.30	6.999e2					0.4	NO		bb		
18	FUNCTION5 PFK	45.21	9.297e2					0.6	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.59	7.752e1					1.5	NO		bd		0.000
2	FUNCTION1 HXCD...	25.35	1.519e2					3.2	YES		bb		0.000
3	FUNCTION1 HXCD...	24.96	7.048e1					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	24.78	2.439e2					3.7	YES		bb		0.000
5	FUNCTION1 HXCD...	24.01	9.830e1					3.1	YES		bb		0.000
6	FUNCTION1 HXCD...	21.47	1.371e2					4.3	YES		bb		0.000
7	FUNCTION1 HXCD...	21.16	2.751e2					3.3	YES		bb		0.000
8	FUNCTION1 HXCD...	27.80	9.094e1					2.1	NO		bb		0.000
9	FUNCTION1 HXCD...	27.62	1.241e2					2.2	NO		bb		0.000
10	FUNCTION1 HXCD...	27.45	1.164e2					2.0	NO		bb		0.000
11	FUNCTION1 HXCD...	27.11	1.967e2					3.2	YES		bb		0.000
12	FUNCTION1 HXCD...	25.68	8.932e1					1.5	NO		db		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:07 Pacific Standard Time

ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.61	7.204e1					1.3	NO		bd		0.000
2	FUNCTION1 HPCD...	25.08	1.068e2					1.7	NO		db		0.000
3	FUNCTION1 HPCD...	24.96	7.983e1					1.7	NO		bd		0.000
4	FUNCTION1 HPCD...	24.34	1.111e2					1.6	NO		bb		0.000
5	FUNCTION1 HPCD...	24.05	7.416e1					1.9	NO		bb		0.000
6	FUNCTION1 HPCD...	22.90	8.548e1					2.1	NO		bb		0.000
7	FUNCTION1 HPCD...	22.69	1.394e2					3.0	YES		bb		0.000
8	FUNCTION1 HPCD...	22.16	9.975e1					1.8	NO		bb		0.000
9	FUNCTION1 HPCD...	21.39	7.629e1					1.5	NO		bb		0.000
10	FUNCTION1 HPCD...	21.16	1.132e2					1.9	NO		bb		0.000
11	FUNCTION1 HPCD...	27.42	8.030e1					1.4	NO		db		0.000
12	FUNCTION1 HPCD...	27.33	2.275e2					2.8	NO		dd		0.000
13	FUNCTION1 HPCD...	27.23	1.122e2					3.4	YES		bd		0.000
14	FUNCTION1 HPCD...	27.12	9.477e1					2.1	NO		bb		0.000
15	FUNCTION1 HPCD...	26.89	1.513e2					3.0	NO		db		0.000
16	FUNCTION1 HPCD...	26.83	1.372e2					2.5	NO		dd		0.000
17	FUNCTION1 HPCD...	26.71	1.310e2					1.9	NO		dd		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.42	1.190e2					1.8	NO		bb		0.000
2	FUNCTION2 HPCD...	30.84	1.163e2					2.0	NO		bb		0.000
3	FUNCTION2 HPCD...	30.40	9.683e1					2.1	NO		bb		0.000
4	FUNCTION2 HPCD...	29.39	1.582e2					1.8	NO		db		0.000
5	FUNCTION2 HPCD...	29.29	9.094e1					2.0	NO		bd		0.000
6	FUNCTION2 HPCD...	29.17	8.536e1					2.0	NO		db		0.000
7	FUNCTION2 HPCD...	29.12	9.657e1					2.1	NO		bd		0.000
8	FUNCTION2 HPCD...	28.93	1.276e2					2.0	NO		bb		0.000
9	FUNCTION2 HPCD...	32.80	1.548e2					3.3	YES		bb		0.000

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:07 Pacific Standard Time

ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.74	7.995e1					2.6	NO		bb		0.000
2	FUNCTION3 OCDPE	37.64	1.219e2					2.7	NO		db		0.000
3	FUNCTION3 OCDPE	37.51	8.048e1					1.5	NO		bd		0.000
4	FUNCTION3 OCDPE	36.70	8.058e1					2.0	NO		bb		0.000
5	FUNCTION3 OCDPE	36.54	8.286e1					0.9	NO		bb		0.000
6	FUNCTION3 OCDPE	36.29	1.941e2					1.9	NO		bb		0.000
7	FUNCTION3 OCDPE	33.78	7.762e1					1.6	NO		bb		0.000
8	FUNCTION3 OCDPE	33.08	8.871e1					1.8	NO		db		0.000
9	FUNCTION3 OCDPE	32.97	2.302e2					3.2	YES		bd		0.000

## ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.31	1.114e2					2.3	NO		bd		0.000
2	FUNCTION4 NCDPE	39.05	1.577e2					1.7	NO		bb		0.000
3	FUNCTION4 NCDPE	38.68	8.590e1					2.4	NO		bb		0.000
4	FUNCTION4 NCDPE	38.54	7.501e1					1.7	NO		bb		0.000
5	FUNCTION4 NCDPE	42.00	7.183e1					1.7	NO		bb		0.000
6	FUNCTION4 NCDPE	41.35	1.244e2					1.7	NO		bb		0.000
7	FUNCTION4 NCDPE	40.89	1.262e2					3.0	YES		db		0.000
8	FUNCTION4 NCDPE	40.84	1.102e2					2.1	NO		bd		0.000
9	FUNCTION4 NCDPE	40.21	7.357e1					1.4	NO		bb		0.000
10	FUNCTION4 NCDPE	39.52	1.081e2					1.6	NO		bb		0.000
11	FUNCTION4 NCDPE	39.42	2.071e2					2.8	NO		db		0.000

## ETHERS6

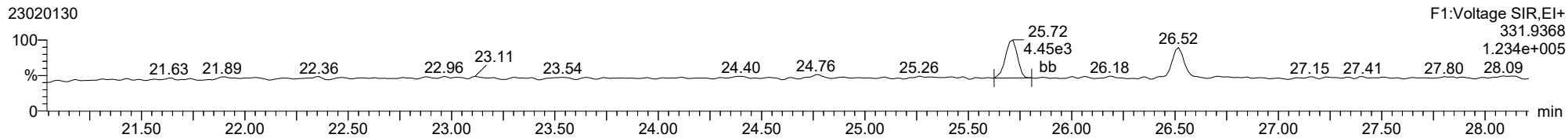
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.55	7.169e1					1.9	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

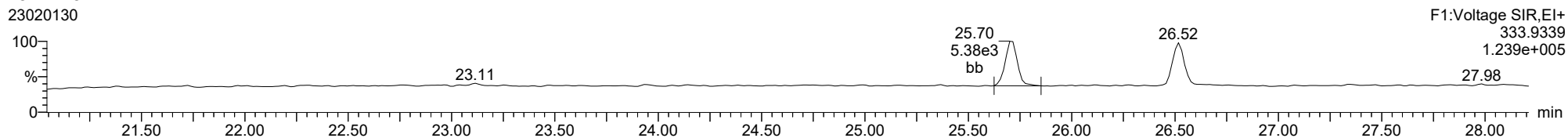
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23020130



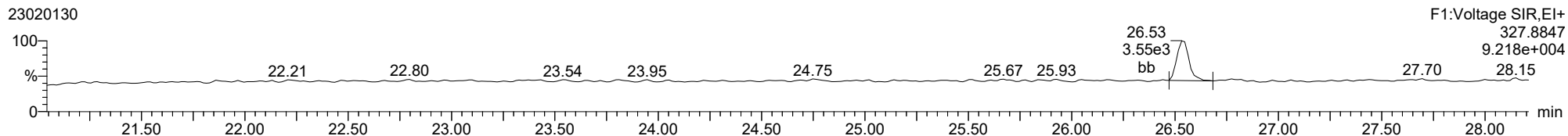
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23020130



**37CL-2378-TCDD**

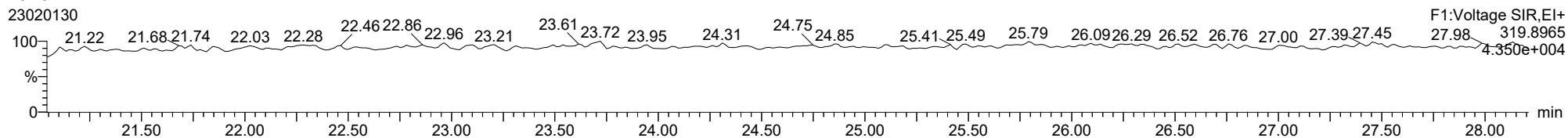
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ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

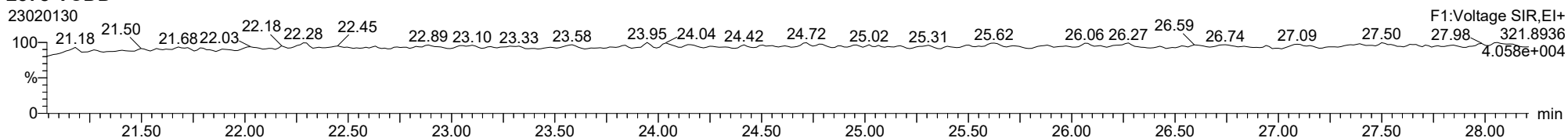
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23020130



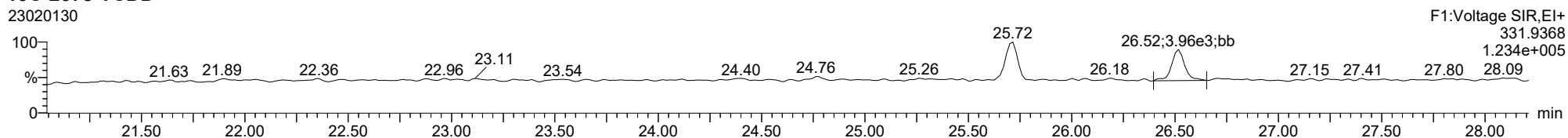
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23020130



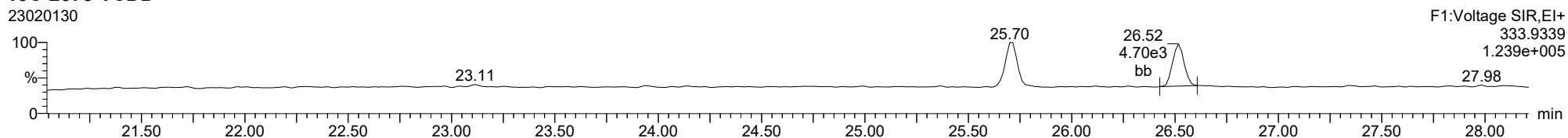
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23020130



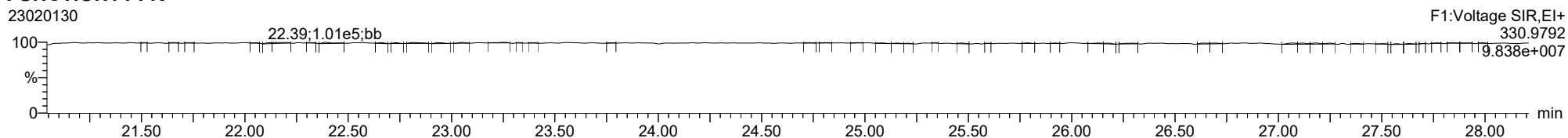
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23020130



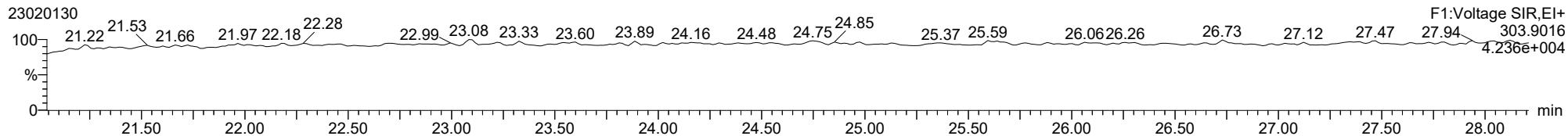
**FUNCTION1 PFK**

23020130

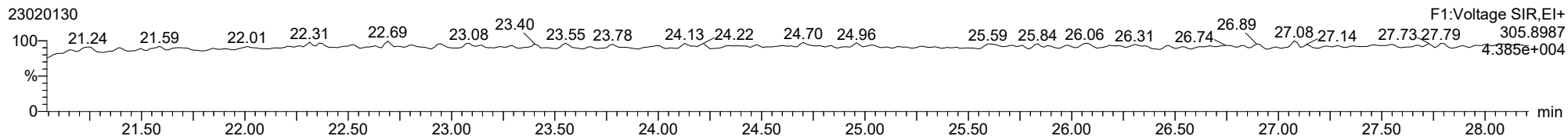


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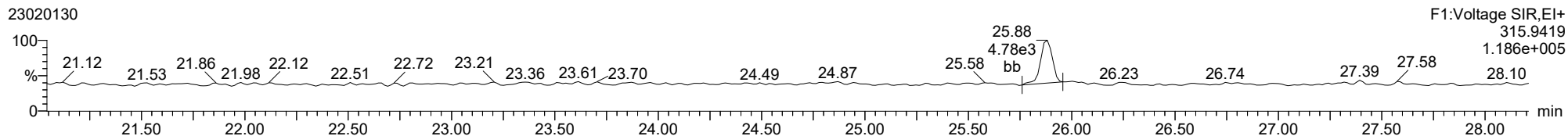
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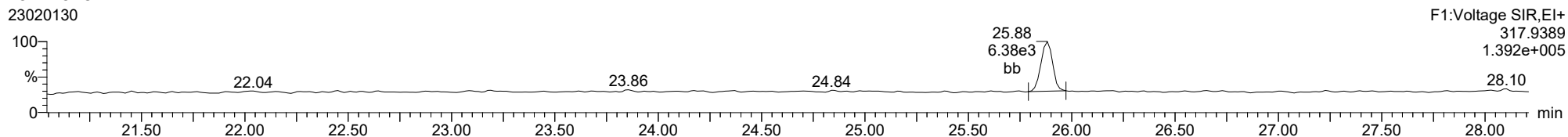
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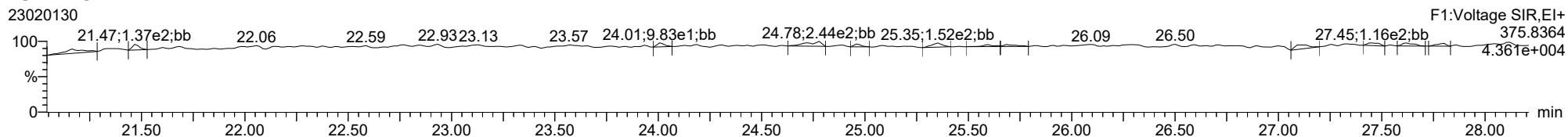
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**13C-2378-TCDF**



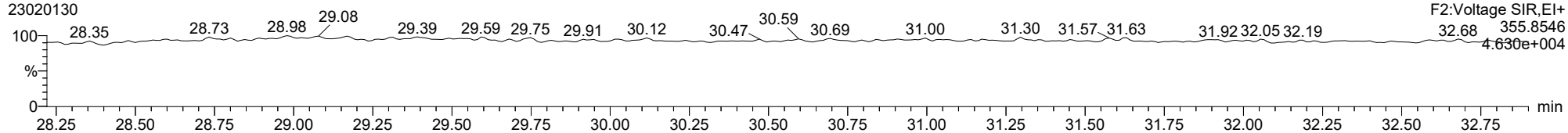
**FUNCTION1 HXCDPE**



ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

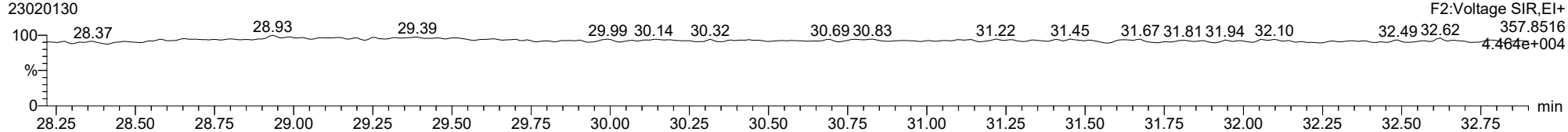
**12378-PeCDD**

23020130



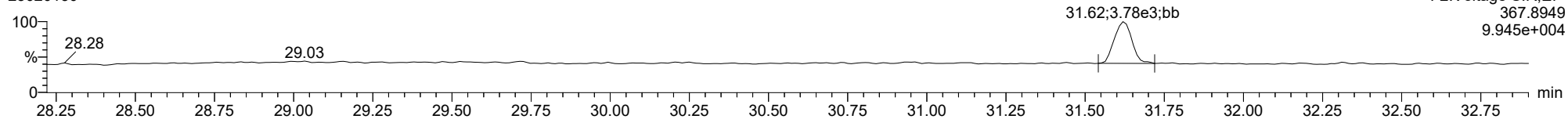
**12378-PeCDD**

23020130



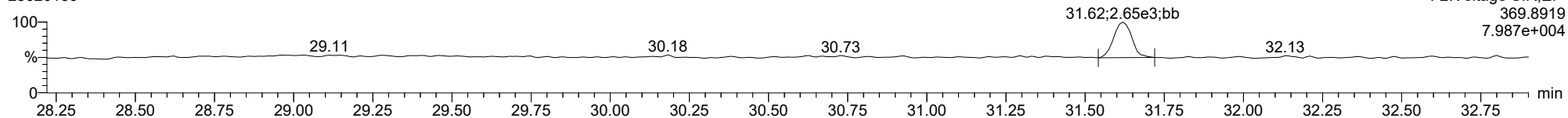
**13C-12378-PeCDD**

23020130



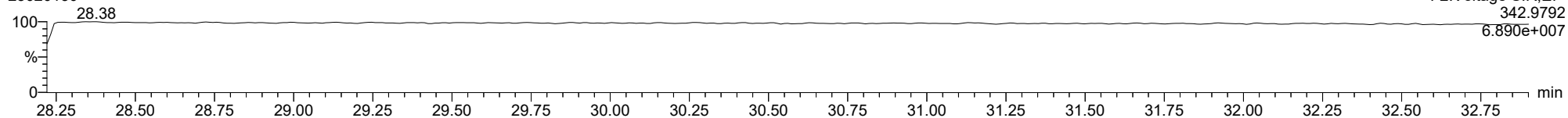
**13C-12378-PeCDD**

23020130



**FUNCTION2 PFK**

23020130

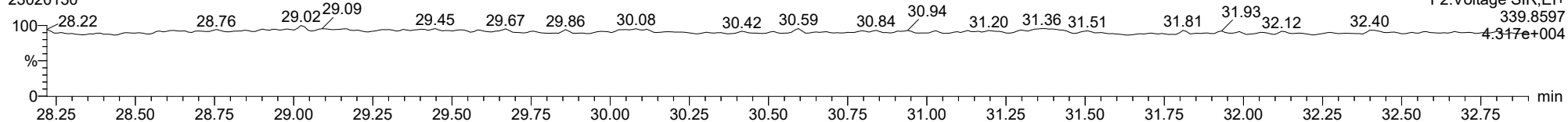




ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

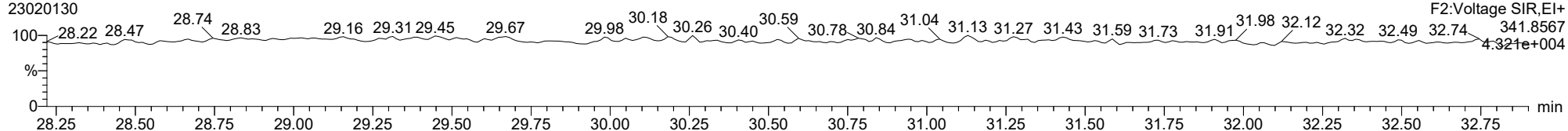
**12378-PeCDF**

23020130



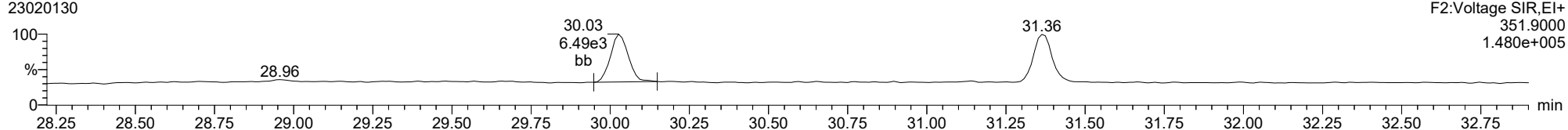
**12378-PeCDF**

23020130



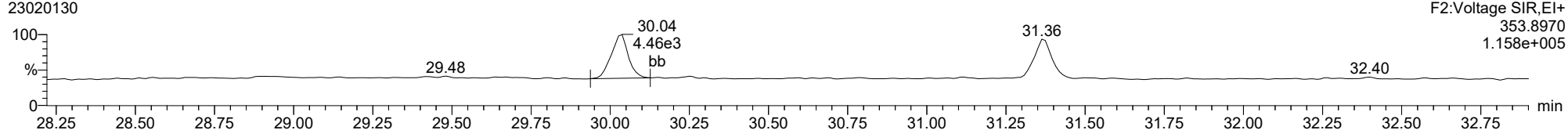
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23020130



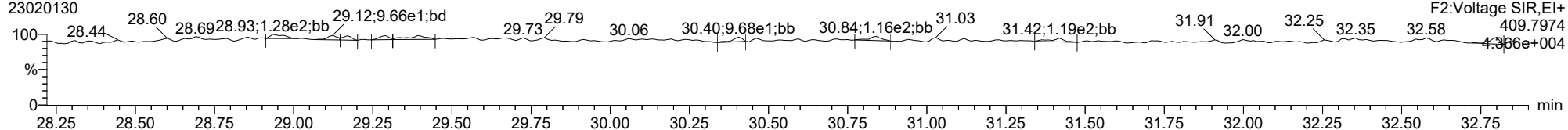
**13C-12378-PeCDF**

23020130



**FUNCTION2 HPCDPE**

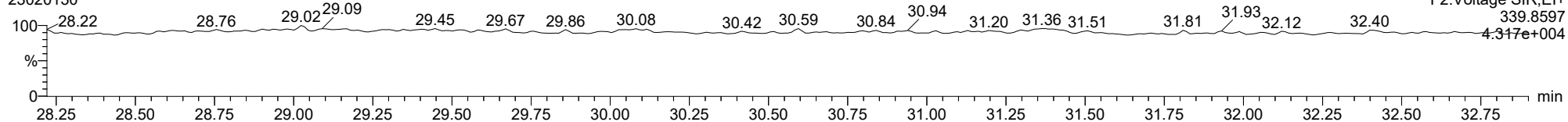
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ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

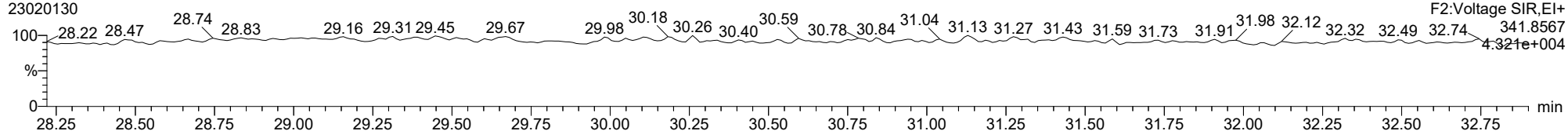
**23478-PeCDF**

23020130



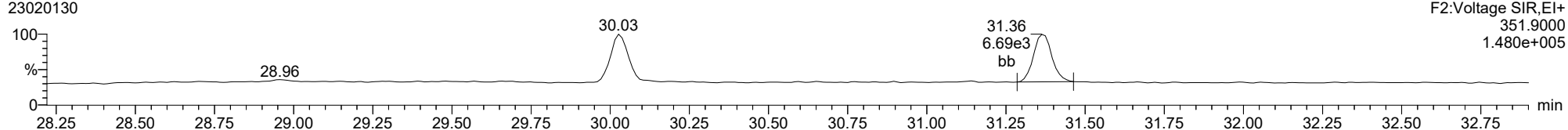
**23478-PeCDF**

23020130



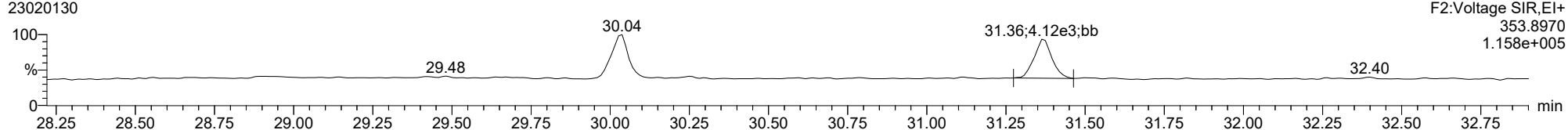
**13C-23478-PeCDF**

23020130



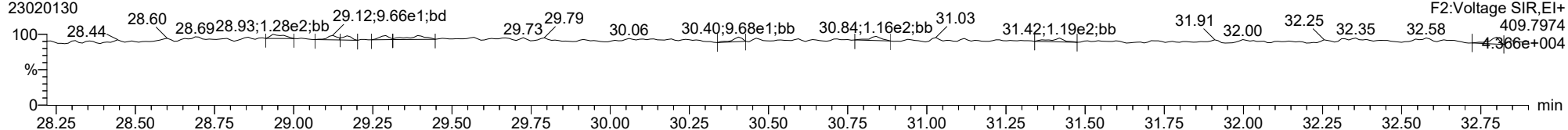
**13C-23478-PeCDF**

23020130



**FUNCTION2 HPCDPE**

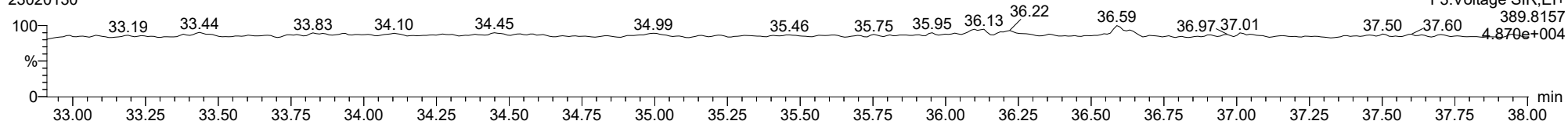
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ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

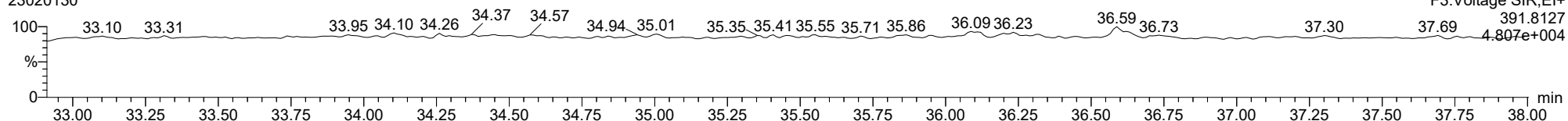
**123478-HxCDD**

23020130



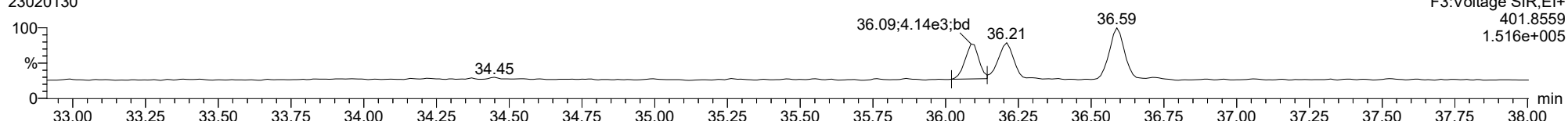
**123478-HxCDD**

23020130



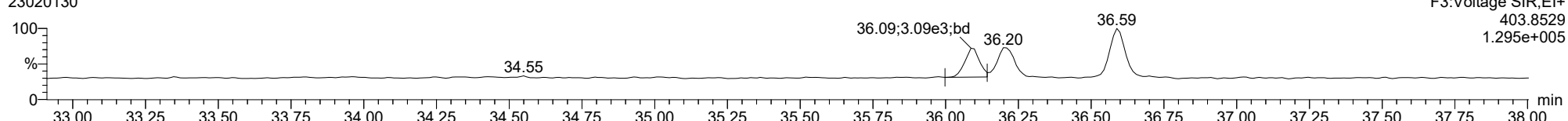
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23020130



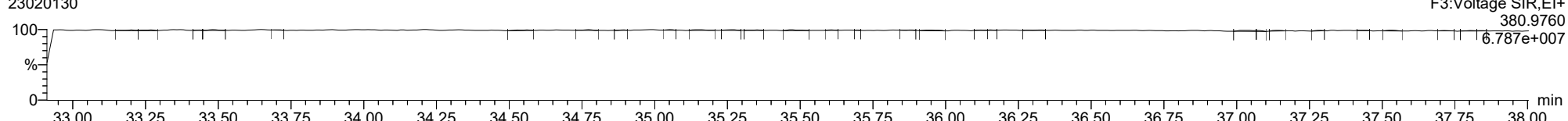
**13C-123478-HxCDD**

23020130



**FUNCTION3 PFK**

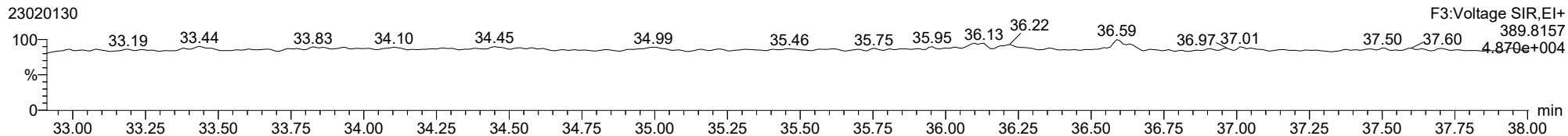
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ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

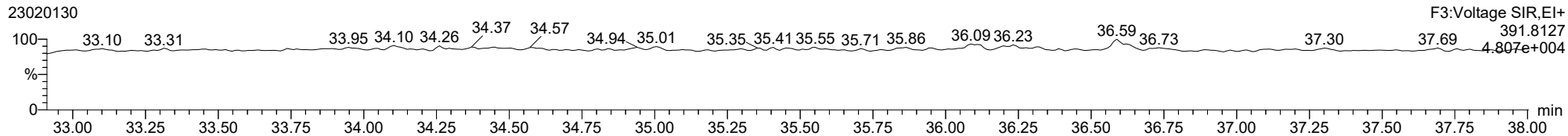
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23020130



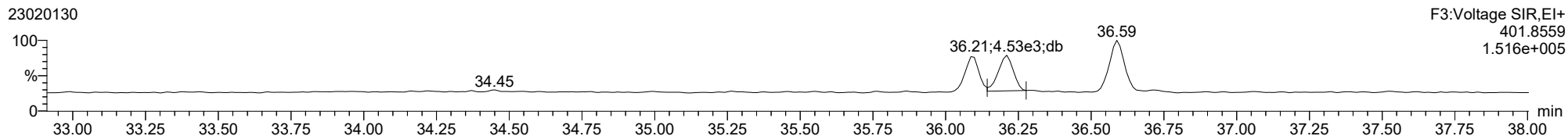
**123678-HxCDD**

23020130



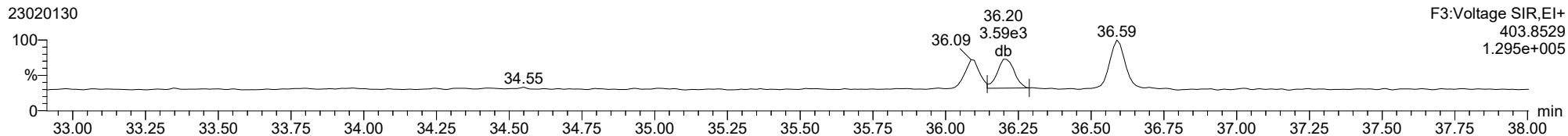
**13C-123678-HxCDD**

23020130



**13C-123678-HxCDD**

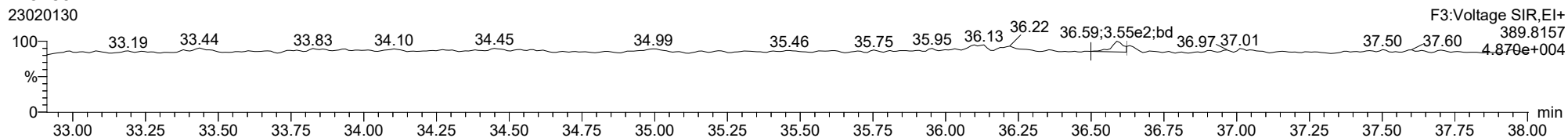
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ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

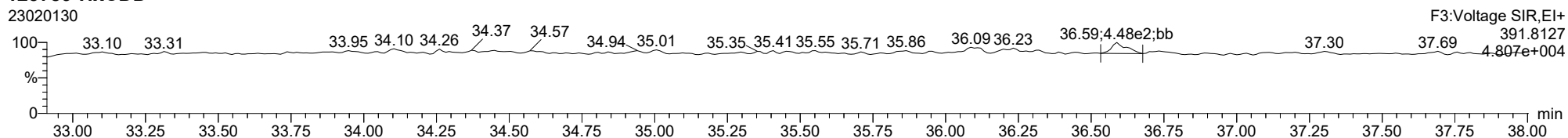
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23020130



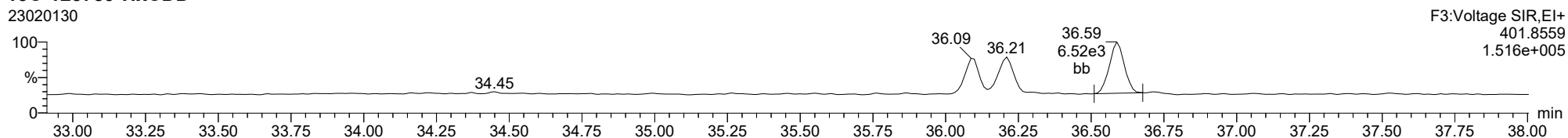
**123789-HxCDD**

23020130



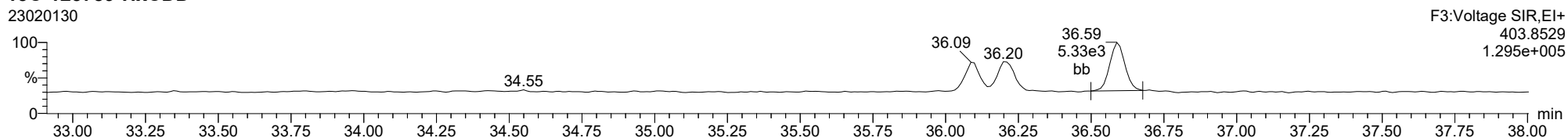
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23020130



**13C-123789-HxCDD**

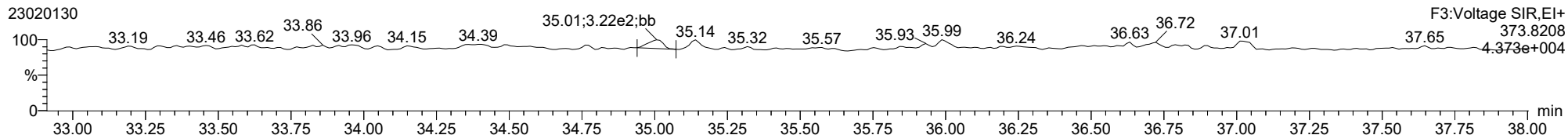
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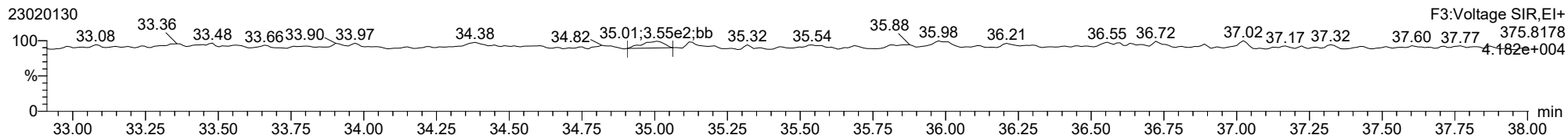
**123478-HxCDF**

23020130



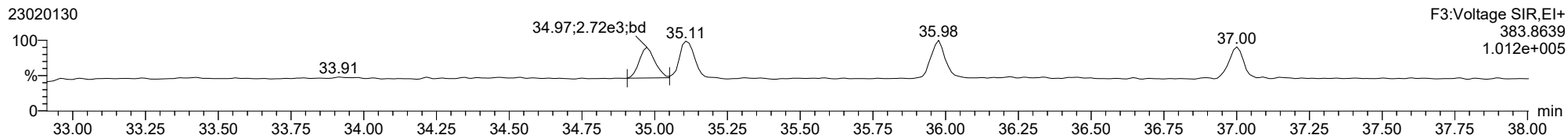
**123478-HxCDF**

23020130



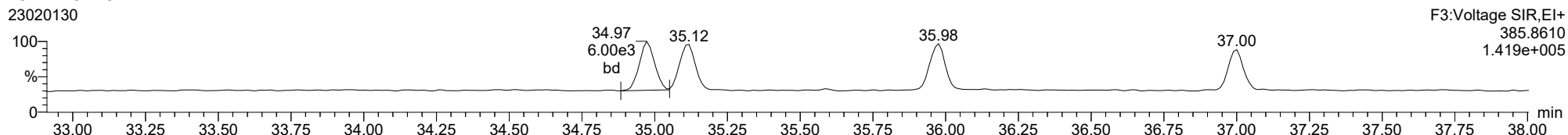
**13C-123478-HxCDF**

23020130



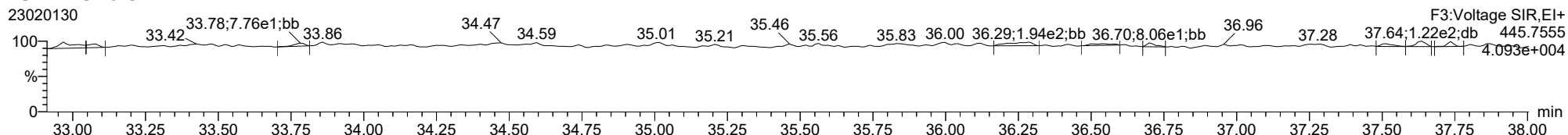
**13C-123478-HxCDF**

23020130



**FUNCTION3 OCDPE**

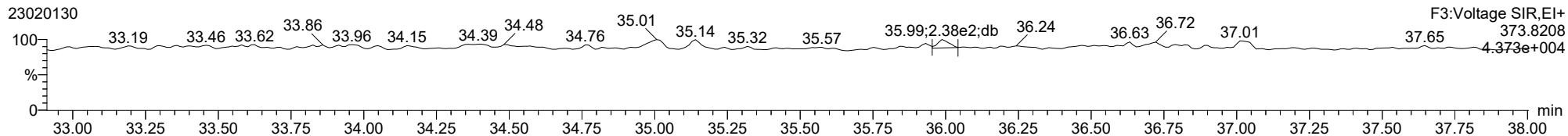
23020130



ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

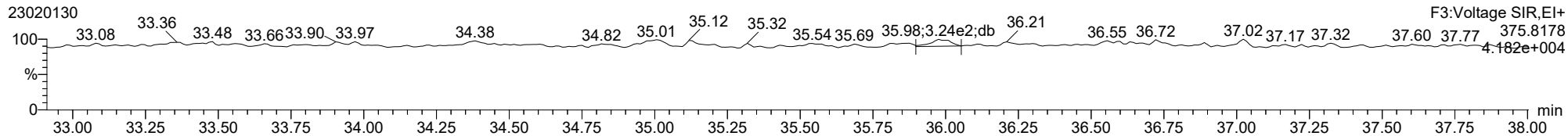
**234678-HxCDF**

23020130



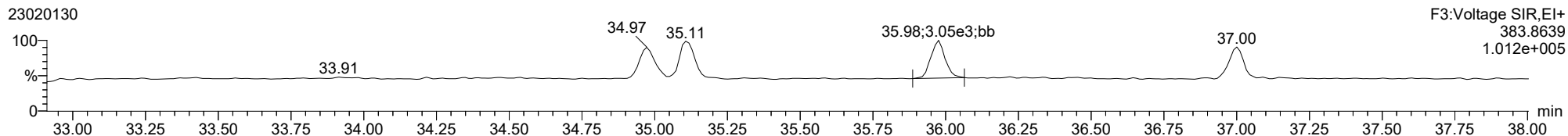
**234678-HxCDF**

23020130



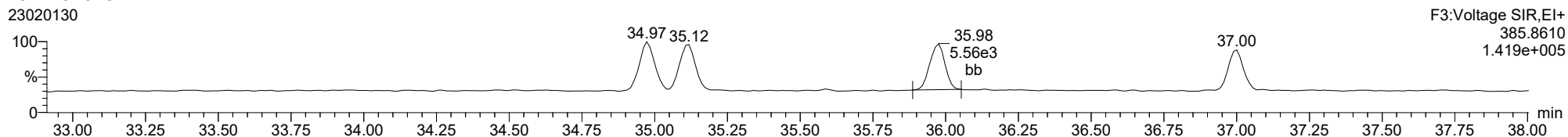
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23020130



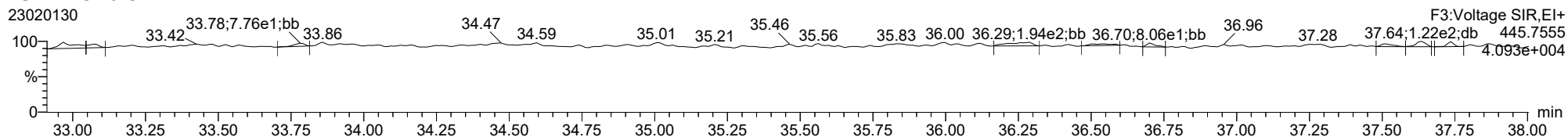
**13C-234678-HxCDF**

23020130



**FUNCTION3 OCDPE**

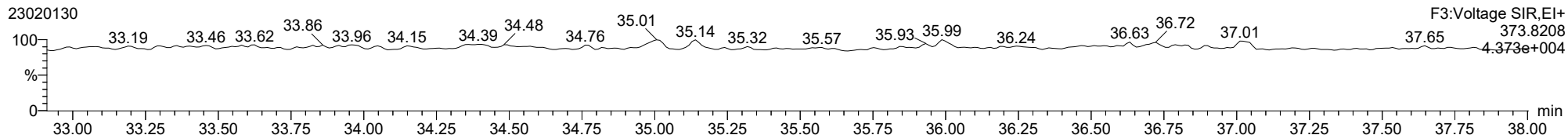
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ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

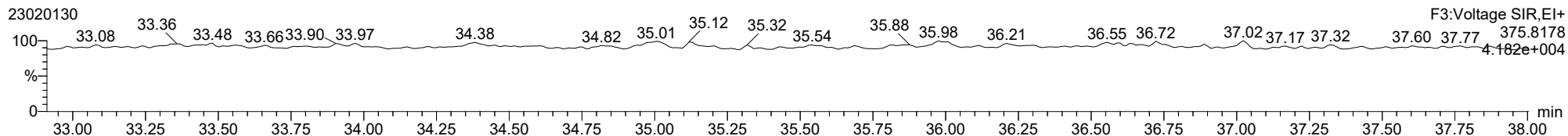
**123678-HxCDF**

23020130



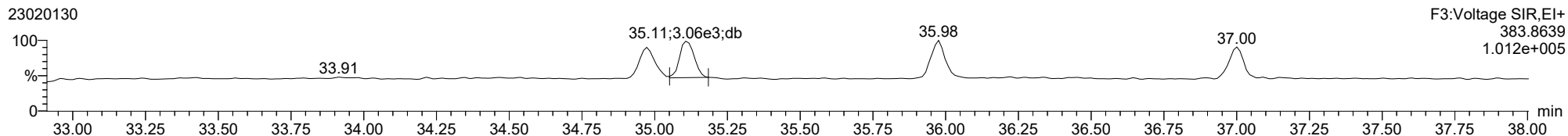
**123678-HxCDF**

23020130



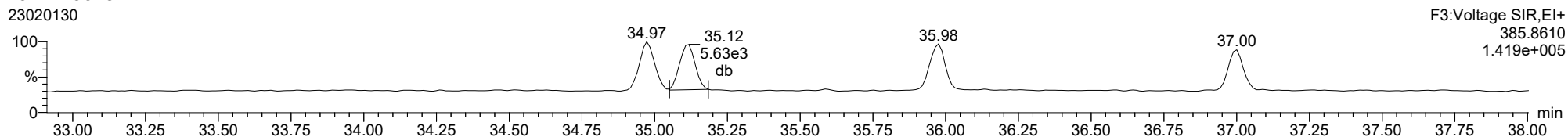
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23020130



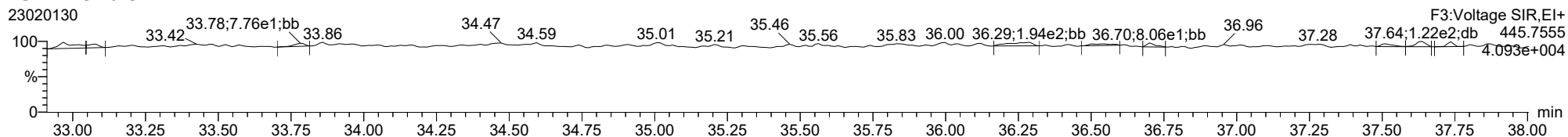
**13C-123678-HxCDF**

23020130



**FUNCTION3 OCDPE**

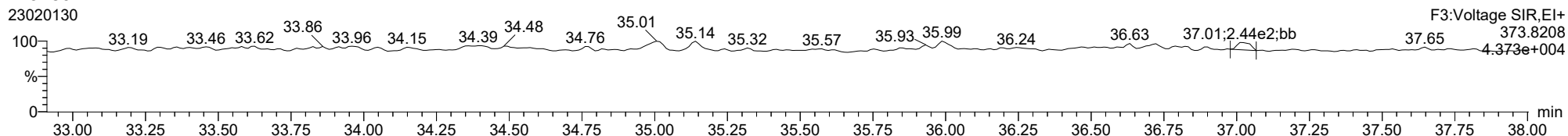
23020130



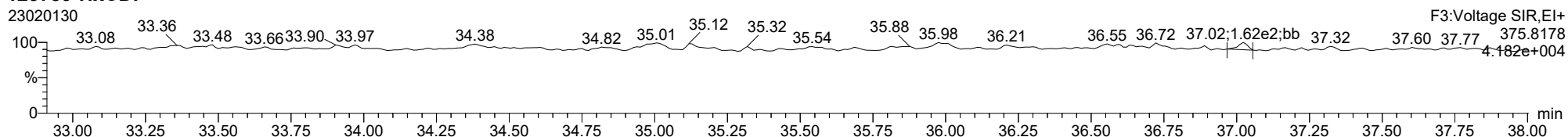


ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

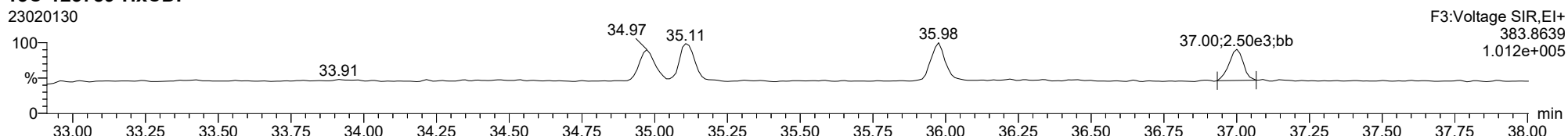
**123789-HxCDF**



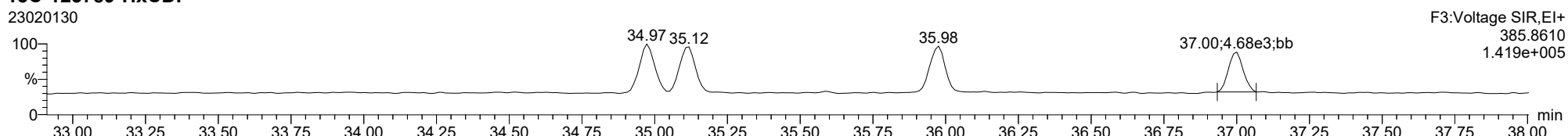
**123789-HxCDF**



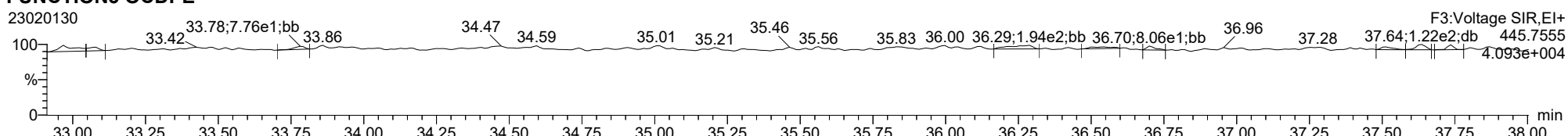
**13C-123789-HxCDF**



**13C-123789-HxCDF**

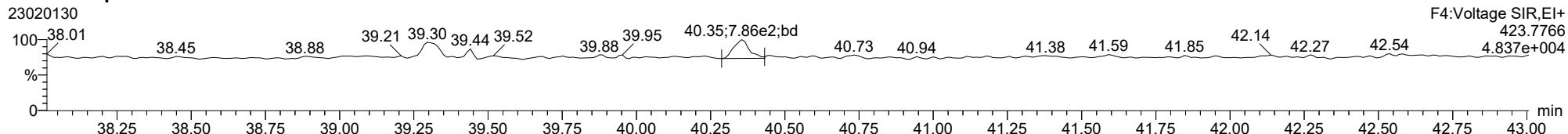


**FUNCTION3 OCDPE**

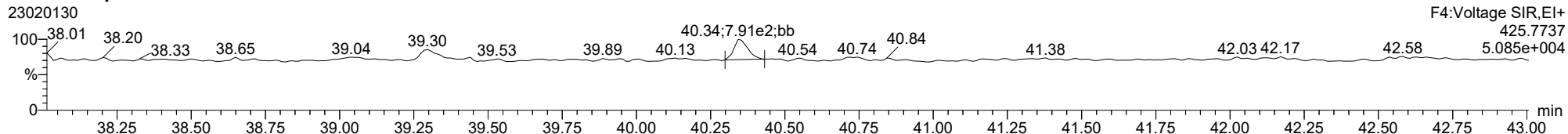


ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

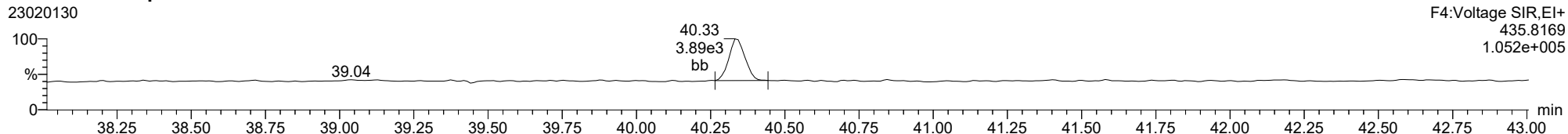
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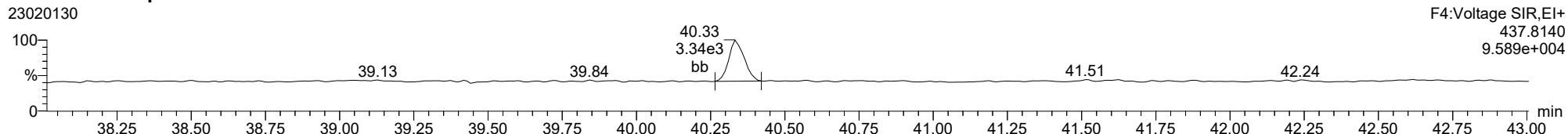
1234678-HpCDD



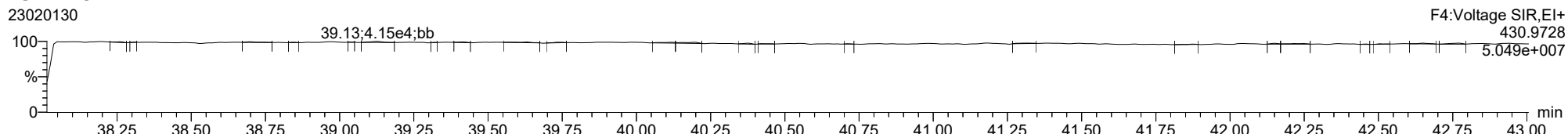
13C-1234678-HpCDD



13C-1234678-HpCDD



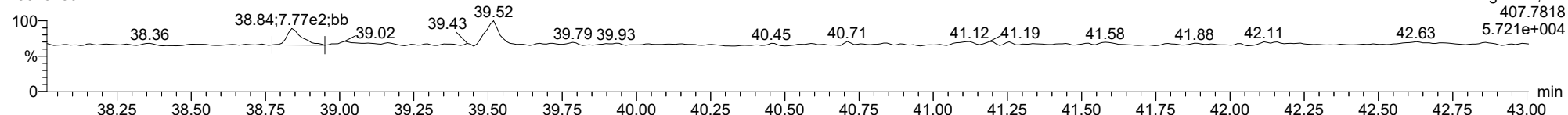
FUNCTION4 PFK



ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

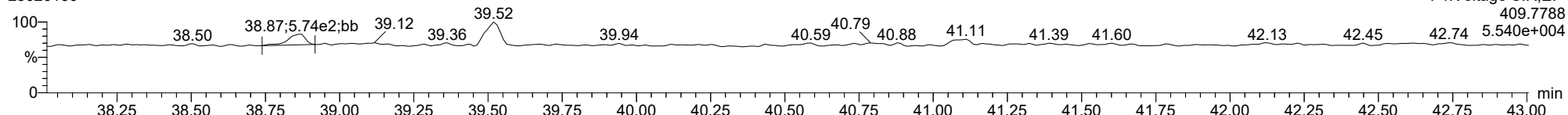
**1234678-HpCDF**

23020130



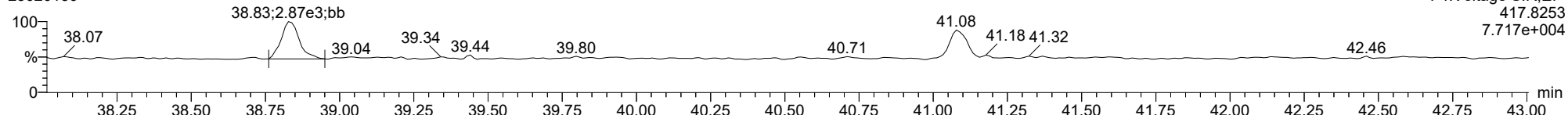
**1234678-HpCDF**

23020130



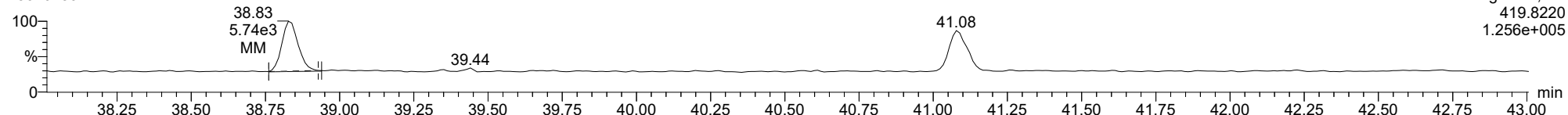
**13C-1234678-HpCDF**

23020130



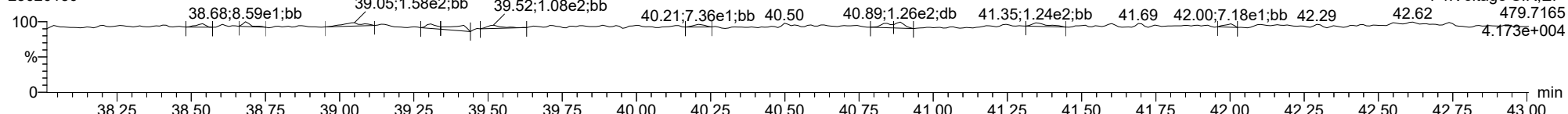
**13C-1234678-HpCDF**

23020130



**FUNCTION4 NCDPE**

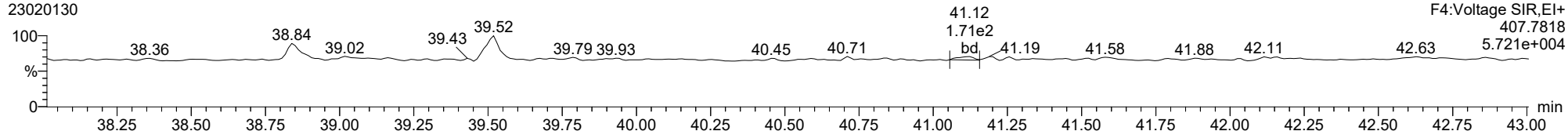
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ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

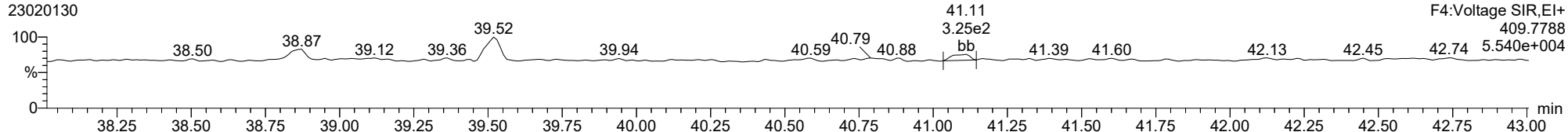
**1234789-HpCDF**

23020130



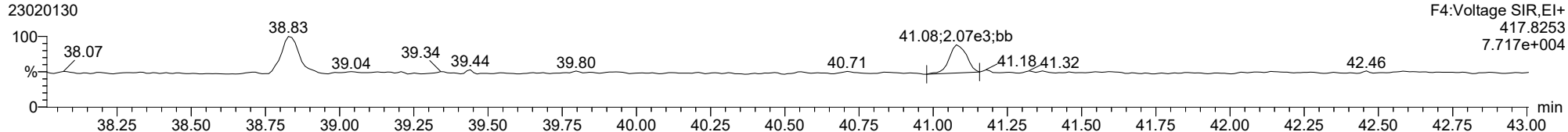
**1234789-HpCDF**

23020130



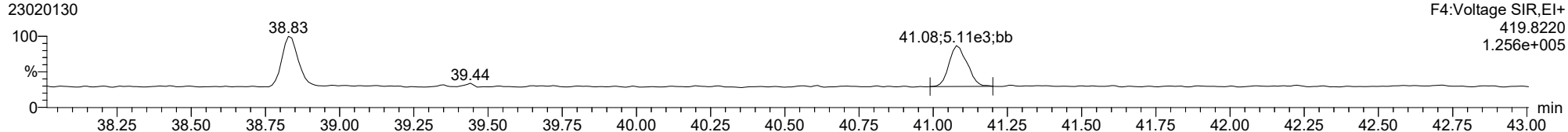
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23020130



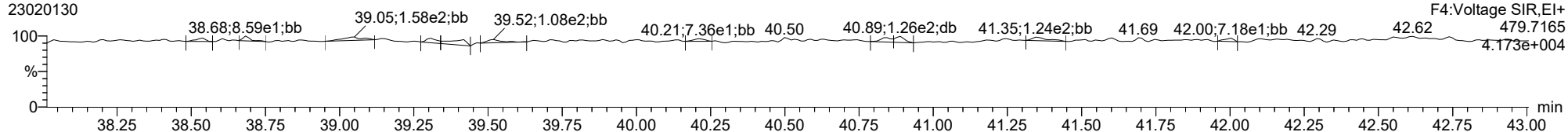
**13C-1234789-HpCDF**

23020130



**FUNCTION4 NCDPE**

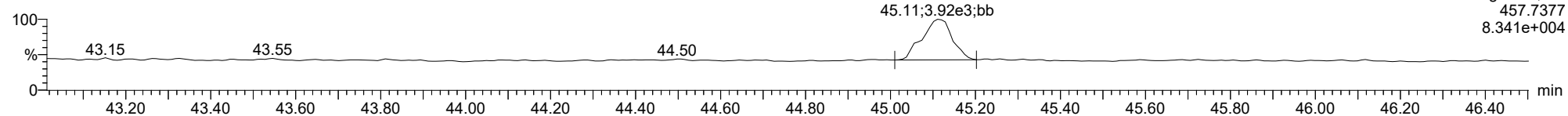
23020130



ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

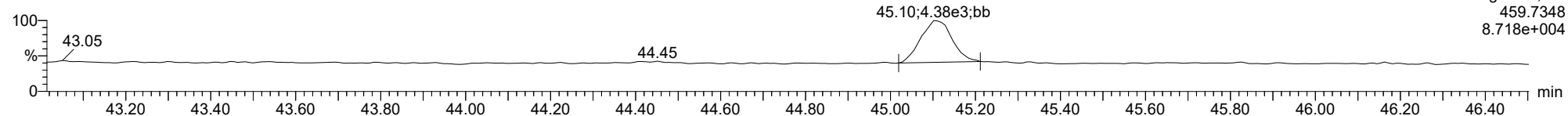
**OCDD**

23020130



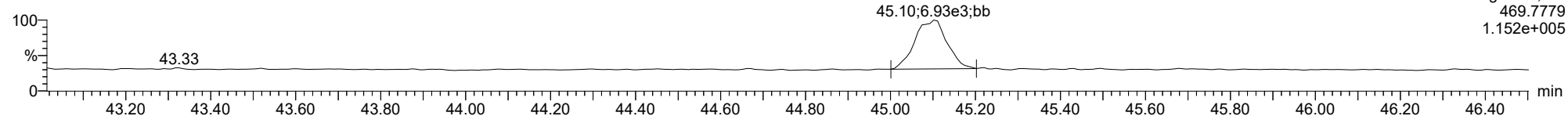
**OCDD**

23020130



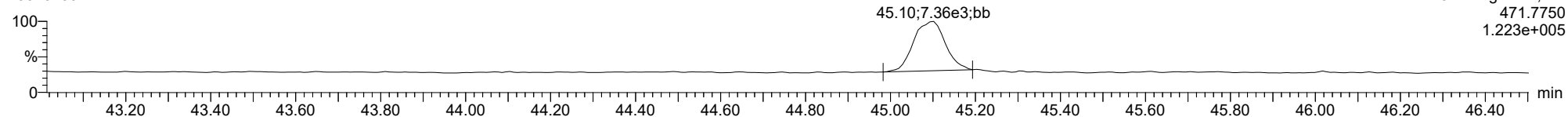
**13C-OCDD**

23020130



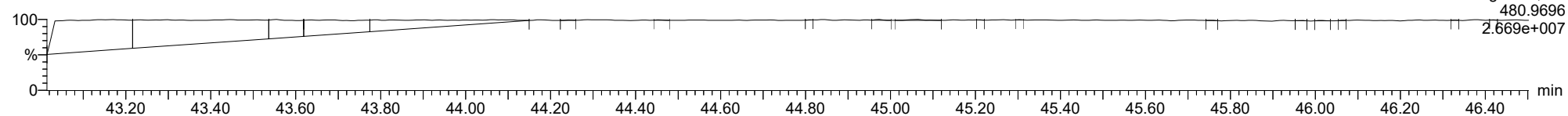
**13C-OCDD**

23020130



**FUNCTIONS PFK**

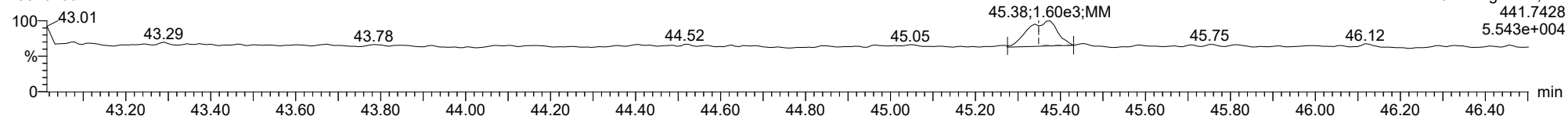
23020130



ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

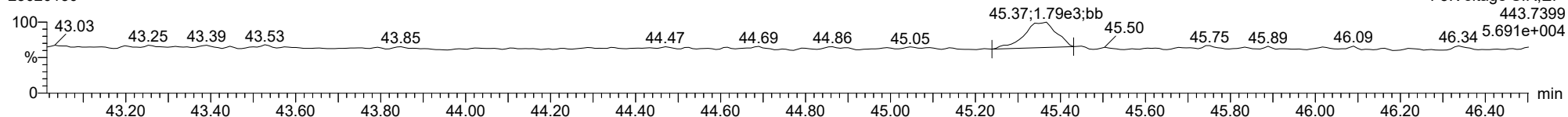
**OCDF**

23020130



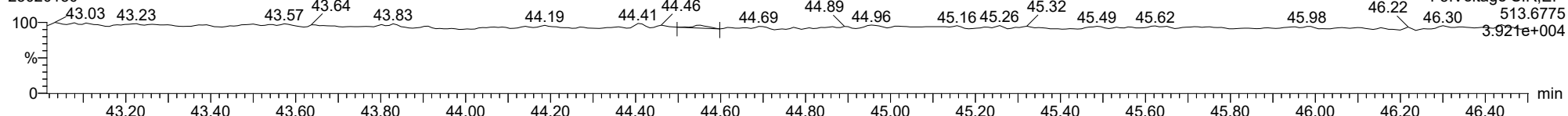
**OCDF**

23020130



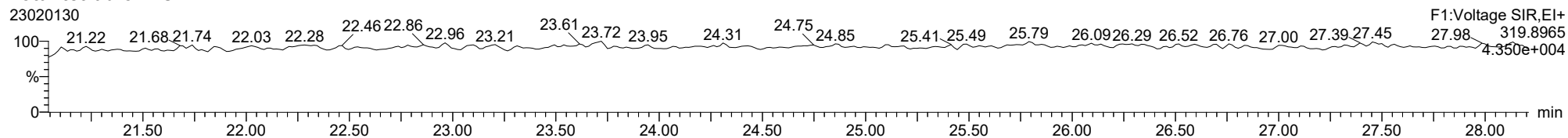
**FUNCTION5 DCDPE**

23020130

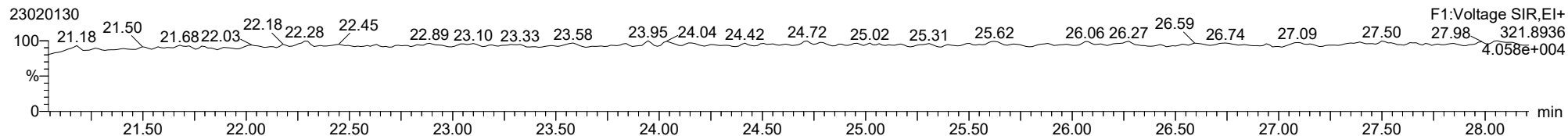


ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

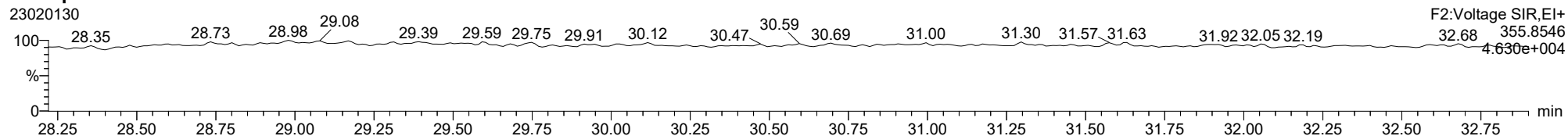
**Total-tetradoxins**



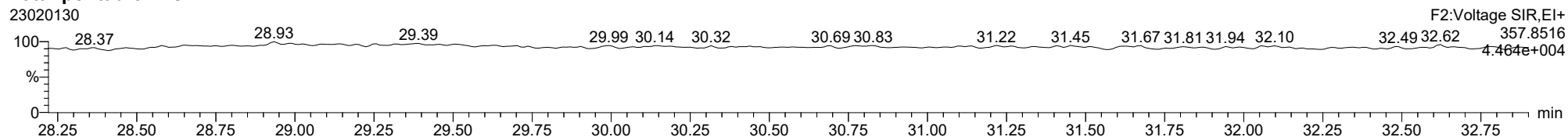
**Total-tetradoxins**



**Total-pentadoxins**



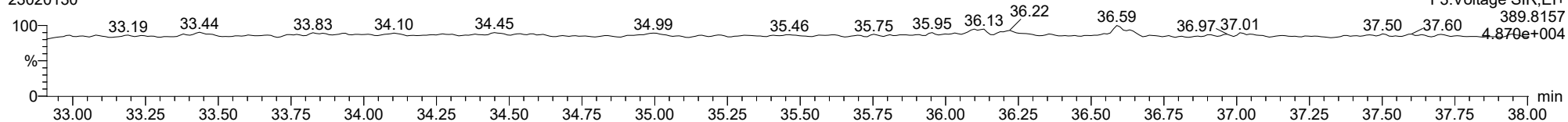
**Total-pentadoxins**



ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

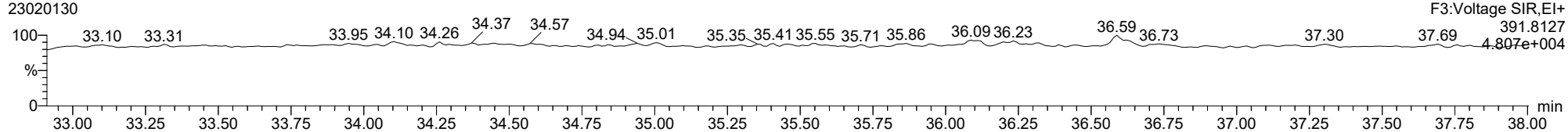
**Total-hexadioxins**

23020130



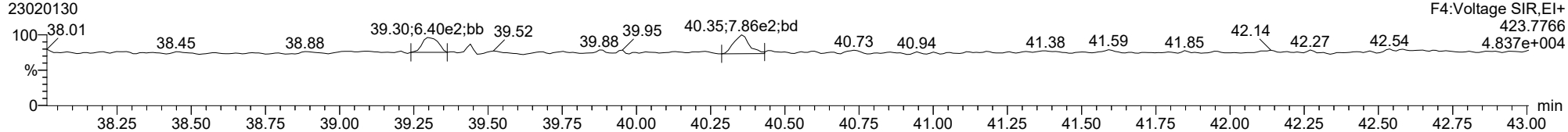
**Total-hexadioxins**

23020130



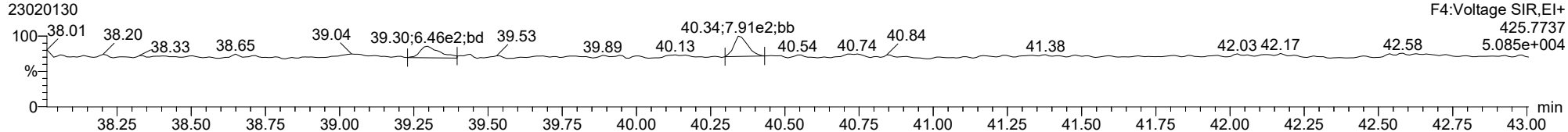
**Total-heptadioxins**

23020130



**Total-heptadioxins**

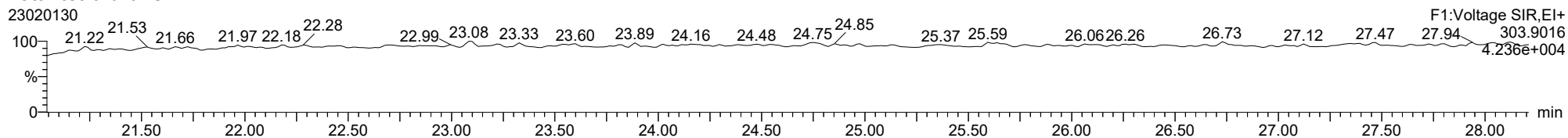
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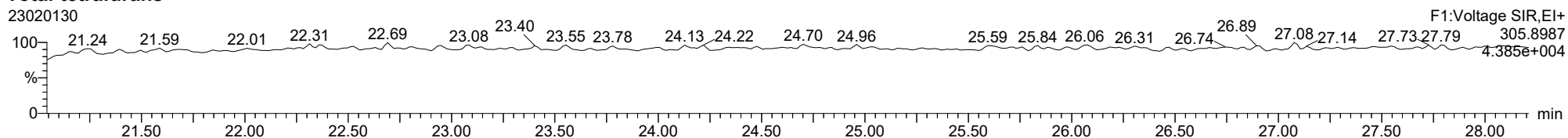


ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

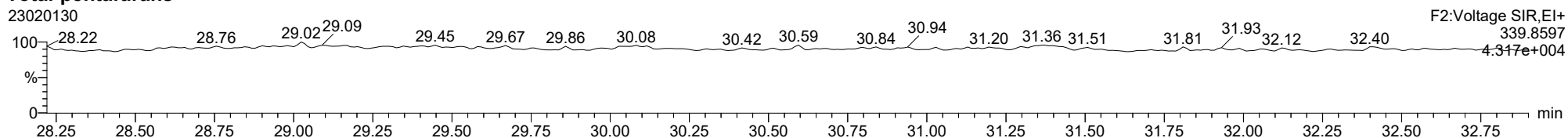
**Total-tetrafurans**



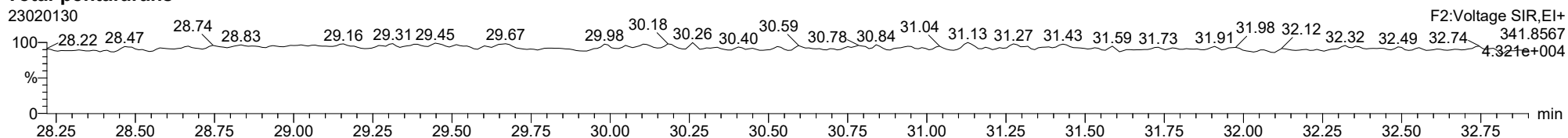
**Total-tetrafurans**



**Total-pentafurans**

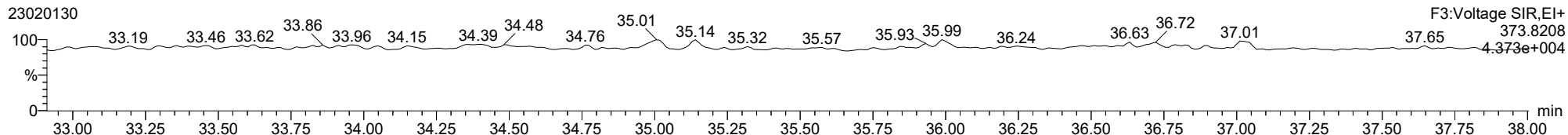


**Total-pentafurans**

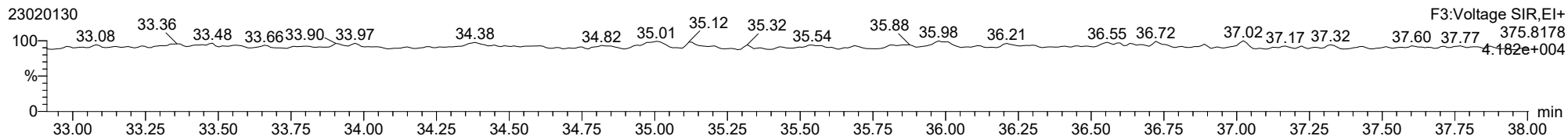


ID: 22L0246-45, Name: 23020130, Date: 02-Feb-2023, Time: 13:05:33, Conditions: AUTOSPEC01, User: pk

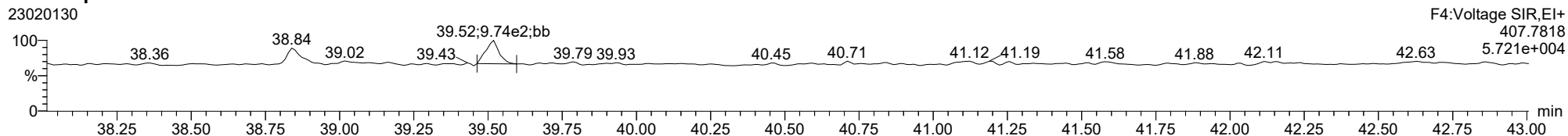
**Total-hexafurans**



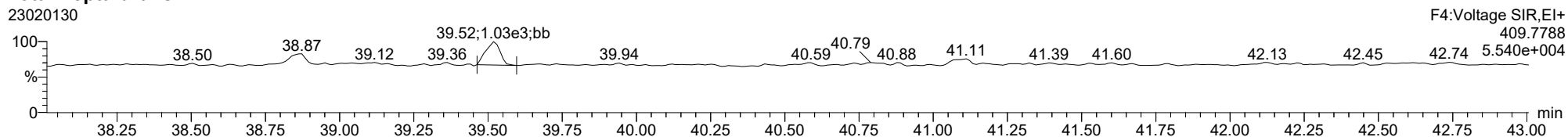
**Total-hexafurans**



**Total-heptafurans**



**Total-heptafurans**





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-45RE1 A File ID: 23030805  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 03/08/23 13:08  
 % Solids: 81.54 Preparation: EPA 1613 Initial/Final: 12.26 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLC0101 Calibration: GC00015  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1		0.655-0.886	0.280	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1		0.655-0.886	0.240	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1		1.318-1.783	0.317	1.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1		1.318-1.783	0.287	1.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1		1.318-1.783	0.275	1.00	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.127	1.054-1.426	0.164	1.00	0.411	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.998	1.054-1.426	0.162	1.00	0.189	ng/kg	EMPC, J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1		1.054-1.426	0.179	1.00	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.310	1.054-1.426	0.218	1.00	0.381	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.755	1.054-1.426	0.236	1.00	0.258	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.309	1.054-1.426	0.237	1.00	0.244	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.791	1.054-1.426	0.260	1.00	0.329	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.184	0.893-1.208	0.200	1.00	0.835	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1		0.893-1.208	0.333	1.00	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.973	0.893-1.208	0.252	2.50	2.13	ng/kg	J, B
39001-02-0	OCDF	1	0.826	0.757-1.024	0.584	2.50	2.17	ng/kg	J, B
3268-87-9	OCDD	1	0.899	0.757-1.024	0.468	10.0	19.5	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	0.792	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	1.00	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	2.34	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	4.99	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.217  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.547



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-45RE1</u>
Sampled:	<u>12/09/22 11:44</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>81.54</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLC0101</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23030805</u>
		Analyzed:	<u>03/08/23 13:08</u>
		Initial/Final:	<u>12.26 g / 20 uL</u>
		Calibration:	<u>GC00015</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.782	0.655-0.886	0.273	74.7	24 - 169 %	
13C12-2,3,7,8-TCDD		0.814	0.655-0.886	0.280	75.8	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.530	1.318-1.783	0.381	100	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.523	1.318-1.783	0.423	101	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.619	1.318-1.783	0.291	93.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.502	0.434-0.587	0.389	75.7	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.490	0.434-0.587	0.328	70.7	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.533	0.434-0.587	0.402	73.4	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.509	0.434-0.587	0.488	72.8	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.308	1.054-1.426	0.434	71.2	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.293	1.054-1.426	0.373	66.4	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.434	0.374-0.506	0.556	86.2	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.410	0.374-0.506	0.647	78.2	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.100	0.893-1.208	0.341	81.6	23 - 140 %	
13C12-OCDD		0.907	0.757-1.024	0.621	75.5	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.109	76.3	35 - 197 %	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld  
 Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time  
 Printed: Wednesday, March 08, 2023 14:10:33 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32

Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.702		0.770	703	1100								
12378-PeCDF					0.679		1.550	733	1162								
23478-PeCDF					0.786		1.550	733	1162								
123478-HxCDF	34.880	1.000	3.018e2	2.678e2	1.166	1.127	1.240	581	564	4.05e3	4.37e3	7.0	7.7	NO	bb	bb	0.206
234678-HxCDF					1.140		1.240	581	564								
123678-HxCDF	35.036	1.001	1.356e2	1.359e2	1.091	0.998	1.240	581	564	3.11e3	1.92e3	5.4	3.4	YES	bb	bb	0.095
123789-HxCDF	36.897	1.000	2.236e2	1.706e2	1.137	1.310	1.240	581	564	3.97e3	3.72e3	6.8	6.6	NO	bb	bb	0.190
1234678-HpCDF	38.757	1.000	4.704e2	3.972e2	1.003	1.184	1.050	639	484	8.98e3	7.29e3	14.1	15.0	NO	bb	bb	0.417
1234789-HpCDF					0.953		1.050	639	484								
OCDF	45.237	1.006	5.940e2	7.195e2	0.778	0.826	0.890	652	666	9.24e3	1.07e4	14.2	16.1	NO	bb	bd	1.085
2378-TCDD					1.149		0.770	1139	672								
12378-PeCDD					1.022		1.550	860	801								
123478-HxCDD	36.006	1.000	1.049e2	1.389e2	0.996	0.755	1.240	681	523	2.36e3	2.94e3	3.5	5.6	YES	bb	bb	0.129
123678-HxCDD	36.139	1.001	1.428e2	1.091e2	1.001	1.309	1.240	681	523	3.10e3	2.41e3	4.6	4.6	NO	bb	bb	0.122
123789-HxCDD	36.507	1.011	1.900e2	1.061e2	0.907	1.791	1.240	681	523	4.16e3	2.21e3	6.1	4.2	YES	MM	bd	0.165
1234678-HpCDD	40.273	1.001	1.006e3	1.034e3	1.039	0.973	1.050	499	614	1.68e4	1.68e4	33.7	27.4	NO	bb	bb	1.066
OCDD	45.009	1.001	6.620e3	7.362e3	0.920	0.899	0.890	494	755	7.35e4	8.31e4	148.8	110.0	NO	bd	bb	9.769
13C-2378-TCDF	25.746	1.007	1.616e5	2.067e5	1.620	0.782	0.770	2068	1325	2.42e6	3.03e6	1169.5	2287.5	NO	bb	bb	74.733
13C-12378-PeCDF	29.911	1.169	2.282e5	1.491e5	1.240	1.530	1.550	2138	1490	3.19e6	2.11e6	1493.6	1416.7	NO	bd	bb	100.014
13C-23478-PeCDF	31.248	1.222	2.082e5	1.367e5	1.118	1.523	1.550	2138	1490	3.04e6	2.00e6	1422.6	1343.8	NO	bb	bb	101.483
13C-123478-HxCDF	34.869	0.955	7.941e4	1.582e5	1.168	0.502	0.510	1299	1718	1.20e6	2.39e6	924.5	1393.2	NO	bd	bd	75.735
13C-123678-HxCDF	35.014	0.959	8.664e4	1.767e5	1.386	0.490	0.510	1299	1718	1.28e6	2.45e6	983.9	1424.6	NO	db	dd	70.730
13C-234678-HxCDF	35.872	0.983	7.741e4	1.452e5	1.129	0.533	0.510	1299	1718	1.17e6	2.21e6	900.1	1285.0	NO	bb	bb	73.413
13C-123789-HxCDF	36.908	1.011	6.148e4	1.208e5	0.932	0.509	0.510	1299	1718	9.34e5	1.84e6	719.1	1070.3	NO	bb	bb	72.833
13C-1234678-HpCDF	38.757	1.062	6.272e4	1.445e5	0.895	0.434	0.440	1725	1582	1.02e6	2.35e6	590.7	1487.8	NO	bb	bb	86.197
13C-1234789-HpCDF	40.997	1.123	4.702e4	1.146e5	0.770	0.410	0.440	1725	1582	6.18e5	1.43e6	358.3	902.1	NO	bb	bd	78.172
13C-1234-TCDD	25.576	0.000	1.369e5	1.672e5	1.000	0.818	0.770	1319	1156	2.07e6	2.55e6	1571.7	2207.1	NO	bb	bb	100.000
13C-2378-TCDD	26.382	1.031	1.192e5	1.464e5	1.152	0.814	0.770	1319	1156	1.77e6	2.15e6	1341.8	1856.8	NO	bb	bb	75.788
13C-12378-PeCDD	31.504	1.232	1.454e5	8.984e4	0.829	1.619	1.550	1060	792	2.19e6	1.34e6	2067.9	1695.0	NO	bb	bb	93.334
13C-123478-HxCDD	35.994	0.986	1.078e5	8.242e4	0.995	1.308	1.240	1776	1091	1.74e6	1.33e6	980.0	1218.8	NO	bd	bd	71.174
13C-123678-HxCDD	36.106	0.989	1.163e5	8.992e4	1.157	1.293	1.240	1776	1091	1.72e6	1.36e6	968.5	1250.8	NO	db	db	66.387
13C-1234678-HpCDD	40.250	1.103	9.649e4	8.769e4	0.840	1.100	1.050	813	1088	1.34e6	1.23e6	1641.8	1131.7	NO	bd	bd	81.629
13C-OCDD	44.981	1.233	1.480e5	1.632e5	0.767	0.907	0.890	1921	1243	1.66e6	1.81e6	861.5	1456.5	NO	bb	bb	150.959
13C-123789-HxCDD	36.496	0.000	1.517e5	1.169e5	1.000	1.298	1.240	1776	1091	2.25e6	1.74e6	1267.5	1596.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.410	1.033	1.196e5		1.288			1077		1.74e6		1619.6			bb		30.529

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld  
 Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time  
 Printed: Wednesday, March 08, 2023 14:10:33 Pacific Standard Time

ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.045	0.856	1.073e2	1.822e2	0.802	0.589	0.770	703	1100	1.19e3	2.89e3	1.7	2.6	YES	bb	db	0.098
1289-TCDF					0.678		0.770	703	1100								
13468-PECDF					1.246		1.550	517	630								
12389-PECDF					0.496		1.550	733	1162								
123468-HXCDF	33.220	0.953	1.874e2	1.913e2	1.169	0.979	1.240	581	564	3.08e3	2.99e3	5.3	5.3	YES	bb	bb	0.136
1368-TCDD	23.542	0.892	5.143e2	4.243e2	1.015	1.212	0.770	1139	672	5.68e3	6.33e3	5.0	9.4	YES	bb	bb	0.348
1289-TCDD					0.909		0.770	1139	672								
12479-PECDD					2.301		1.550	860	801								
12389-PECDD					1.184		1.550	860	801								
124679-HXCDD	34.000	0.945	4.701e2	3.312e2	1.115	1.419	1.240	681	523	6.87e3	5.22e3	10.1	10.0	NO	bb	bb	0.378
1234679-HPCDD	39.214	0.974	1.591e3	1.398e3	1.137	1.138	1.050	499	614	2.41e4	2.20e4	48.4	35.8	NO	bb	bb	1.428
Total-tetrafurans			0.000e0		0.727			703		0.00e0							
Total-penta1			0.000e0					517		0.00e0							
Total-pentafurans			0.000e0		0.654			733		0.00e0							
Total-hexafurans			5.253e2		1.141			581		8.02e3							0.396
Total-heptafurans			1.115e3		0.978			639		1.81e4							1.169
Total-Furans			2.316e3		0.922			703		3.69e4							2.703
Total-tetradoxins			0.000e0		1.024			1139		0.00e0							
Total-pentadoxins			0.000e0		1.502			860		0.00e0							
Total-hexadoxins			6.129e2		1.005			681		9.97e3							0.500
Total-heptadoxins			2.598e3		1.088			499		4.10e4							2.494
Total-Dioxins			9.830e3		1.130			1139		1.24e5							12.763
Total-TEQ			1.215e4					1139		1.61e5							15.466
FUNCTION1 PFK			1.526e5					314240		4.87e6							
FUNCTION2 PFK			0.000e0					283258		0.00e0							
FUNCTION3 PFK			4.507e6					305994		4.63e6							0.000
FUNCTION4 PFK			6.503e5					265069		9.62e6							
FUNCTION5 PFK			9.818e4					164390		2.56e6							
FUNCTION1 HXCD...			6.543e2					684		7.94e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.462e1					521		1.43e3							0.000
FUNCTION3 OCDPE			3.256e2					531		4.67e3							0.000
FUNCTION4 NCDPE			3.176e2					724		4.11e3							0.000
FUNCTION5 DCDPE			0.000e0					597		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:33 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32****Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27****ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.90	2.236e2	1.706e2	1.137	1.31	1.24	6.8	YES	NO	bb	bb	0.190
2	123478-HxCDF	34.88	3.018e2	2.678e2	1.166	1.13	1.24	7.0	YES	NO	bb	bb	0.206

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.44	6.444e2	7.107e2	0.978	0.91	1.05	14.3	YES	NO	bb	bb	0.751
2	1234678-HpCDF	38.76	4.704e2	3.972e2	1.003	1.18	1.05	14.1	YES	NO	bb	bb	0.417

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	27.82	8.207e1	9.876e1	0.922	0.83	0.77	2.2	NO	NO	bd	bb	0.053
2	123789-HxCDF	36.90	2.236e2	1.706e2	1.137	1.31	1.24	6.8	YES	NO	bb	bb	0.190
3	123478-HxCDF	34.88	3.018e2	2.678e2	1.166	1.13	1.24	7.0	YES	NO	bb	bb	0.206
4	OCDF	45.24	5.940e2	7.195e2	0.778	0.83	0.89	14.2	YES	NO	bb	bd	1.085
5	Total-heptafurans	39.44	6.444e2	7.107e2	0.978	0.91	1.05	14.3	YES	NO	bb	bb	0.751
6	1234678-HpCDF	38.76	4.704e2	3.972e2	1.003	1.18	1.05	14.1	YES	NO	bb	bb	0.417

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:33 Pacific Standard Time

**ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk****TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.00	4.701e2	3.312e2	1.115	1.42	1.24	10.1	YES	NO	bb	bb	0.378
2	123678-HxCDD	36.14	1.428e2	1.091e2	1.001	1.31	1.24	4.6	YES	NO	bb	bb	0.122

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	1.006e3	1.034e3	1.039	0.97	1.05	33.7	YES	NO	bb	bb	1.066
2	1234679-HPCDD	39.21	1.591e3	1.398e3	1.137	1.14	1.05	48.4	YES	NO	bb	bb	1.428

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.00	4.701e2	3.312e2	1.115	1.42	1.24	10.1	YES	NO	bb	bb	0.378
2	123678-HxCDD	36.14	1.428e2	1.091e2	1.001	1.31	1.24	4.6	YES	NO	bb	bb	0.122
3	OCDD	45.01	6.620e3	7.362e3	0.920	0.90	0.89	148.8	YES	NO	bd	bb	9.769
4	1234678-HpCDD	40.27	1.006e3	1.034e3	1.039	0.97	1.05	33.7	YES	NO	bb	bb	1.066
5	1234679-HPCDD	39.21	1.591e3	1.398e3	1.137	1.14	1.05	48.4	YES	NO	bb	bb	1.428



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:33 Pacific Standard Time

ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	27.82	8.207e1	9.876e1	0.922	0.83	0.77	2.2	NO	NO	bd	bb	0.053
2	123789-HxCDF	36.90	2.236e2	1.706e2	1.137	1.31	1.24	6.8	YES	NO	bb	bb	0.190
3	123478-HxCDF	34.88	3.018e2	2.678e2	1.166	1.13	1.24	7.0	YES	NO	bb	bb	0.206
4	OCDF	45.24	5.940e2	7.195e2	0.778	0.83	0.89	14.2	YES	NO	bb	bd	1.085
5	Total-heptafurans	39.44	6.444e2	7.107e2	0.978	0.91	1.05	14.3	YES	NO	bb	bb	0.751
6	1234678-HpCDF	38.76	4.704e2	3.972e2	1.003	1.18	1.05	14.1	YES	NO	bb	bb	0.417
7	124679-HxCDD	34.00	4.701e2	3.312e2	1.115	1.42	1.24	10.1	YES	NO	bb	bb	0.378
8	123678-HxCDD	36.14	1.428e2	1.091e2	1.001	1.31	1.24	4.6	YES	NO	bb	bb	0.122
9	OCDD	45.01	6.620e3	7.362e3	0.920	0.90	0.89	148.8	YES	NO	bd	bb	9.769
10	1234678-HpCDD	40.27	1.006e3	1.034e3	1.039	0.97	1.05	33.7	YES	NO	bb	bb	1.066
11	1234679-HPCDD	39.21	1.591e3	1.398e3	1.137	1.14	1.05	48.4	YES	NO	bb	bb	1.428

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.88	1.097e4					1.3	NO		bd		
2	FUNCTION1 PFK	26.42	2.385e3					0.5	NO		bb		
3	FUNCTION1 PFK	24.63	2.454e3					0.6	NO		bb		
4	FUNCTION1 PFK	24.35	6.468e3					1.0	NO		bb		
5	FUNCTION1 PFK	24.14	9.646e3					0.9	NO		bb		
6	FUNCTION1 PFK	23.46	2.452e4					1.6	NO		bb		
7	FUNCTION1 PFK	22.12	1.909e4					1.3	NO		db		
8	FUNCTION1 PFK	22.07	7.452e3					1.0	NO		bd		
9	FUNCTION1 PFK	21.78	2.718e4					1.6	NO		bb		
10	FUNCTION1 PFK	21.47	7.038e3					0.9	NO		bb		
11	FUNCTION1 PFK	21.11	3.093e3					0.7	NO		bb		
12	FUNCTION1 PFK	27.94	2.565e3					0.6	NO		bb		
13	FUNCTION1 PFK	27.57	2.835e3					0.6	NO		bb		
14	FUNCTION1 PFK	27.53	2.744e3					0.6	NO		bb		
15	FUNCTION1 PFK	27.16	5.491e3					0.8	NO		bb		
16	FUNCTION1 PFK	26.92	1.864e4					1.6	NO		db		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:33 Pacific Standard Time

ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.82	4.336e6					10.9	YES		db		0.000
2	FUNCTION3 PFK	32.94	1.707e5					4.3	YES		bd		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.62	8.328e3					1.0	NO		bb		
2	FUNCTION4 PFK	38.55	9.973e3					1.0	NO		bb		
3	FUNCTION4 PFK	38.21	6.311e4					2.8	NO		db		
4	FUNCTION4 PFK	38.11	5.059e4					4.3	YES		dd		
5	FUNCTION4 PFK	38.07	9.084e4					4.6	YES		dd		
6	FUNCTION4 PFK	37.91	2.656e5					6.6	YES		bd		
7	FUNCTION4 PFK	41.79	3.907e4					2.0	NO		bb		
8	FUNCTION4 PFK	41.15	1.341e3					0.5	NO		bb		
9	FUNCTION4 PFK	40.92	1.409e4					1.1	NO		bb		
10	FUNCTION4 PFK	40.77	5.711e3					1.0	NO		bb		
11	FUNCTION4 PFK	40.73	4.054e3					0.7	NO		bb		
12	FUNCTION4 PFK	40.58	8.504e3					1.2	NO		bb		
13	FUNCTION4 PFK	40.28	1.212e3					0.4	NO		bb		
14	FUNCTION4 PFK	40.15	2.147e4					1.8	NO		bb		
15	FUNCTION4 PFK	39.90	1.909e4					1.5	NO		bb		
16	FUNCTION4 PFK	39.49	6.097e3					1.0	NO		bb		
17	FUNCTION4 PFK	39.30	1.638e4					1.5	NO		bb		
18	FUNCTION4 PFK	39.13	1.039e4					1.6	NO		bb		
19	FUNCTION4 PFK	38.75	1.444e4					1.7	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:33 Pacific Standard Time

ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.14	4.993e3					1.2	NO		bb		
2	FUNCTION5 PFK	42.64	2.403e4					1.6	NO		bb		
3	FUNCTION5 PFK	45.94	3.176e4					3.4	YES		db		
4	FUNCTION5 PFK	45.91	1.025e4					2.0	NO		bd		
5	FUNCTION5 PFK	45.48	5.108e3					1.4	NO		bb		
6	FUNCTION5 PFK	44.99	5.072e3					1.2	NO		bb		
7	FUNCTION5 PFK	44.86	4.079e3					1.3	NO		bb		
8	FUNCTION5 PFK	44.61	3.827e3					1.1	NO		bb		
9	FUNCTION5 PFK	44.45	6.745e3					1.4	NO		db		
10	FUNCTION5 PFK	44.40	2.319e3					0.9	NO		bd		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.14	8.597e1					2.8	NO		bb		0.000
2	FUNCTION1 HXCD...	25.86	9.564e1					2.1	NO		bb		0.000
3	FUNCTION1 HXCD...	21.78	1.319e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	21.28	1.039e2					2.1	NO		db		0.000
5	FUNCTION1 HXCD...	21.14	2.368e2					2.4	NO		bd		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.89	8.462e1					2.7	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.13	7.874e1					1.7	NO		bb		0.000
2	FUNCTION3 OCDPE	36.11	8.005e1					2.2	NO		bb		0.000
3	FUNCTION3 OCDPE	34.85	9.521e1					2.1	NO		bb		0.000
4	FUNCTION3 OCDPE	33.48	7.161e1					2.7	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:10:33 Pacific Standard Time

ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.28	1.018e2					1.6	NO		bb		0.000
2	FUNCTION4 NCDPE	40.66	1.456e2					2.2	NO		bb		0.000
3	FUNCTION4 NCDPE	38.87	7.027e1					1.8	NO		bb		0.000

**ETHERS6**

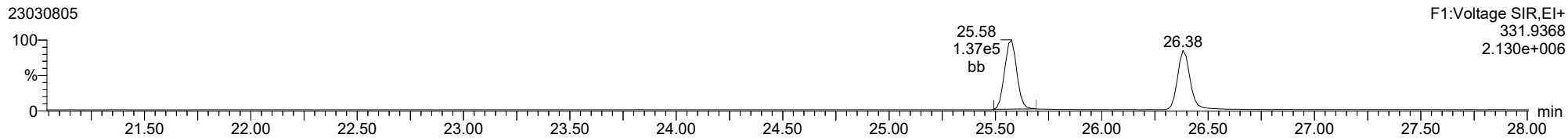
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1													

Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32  
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

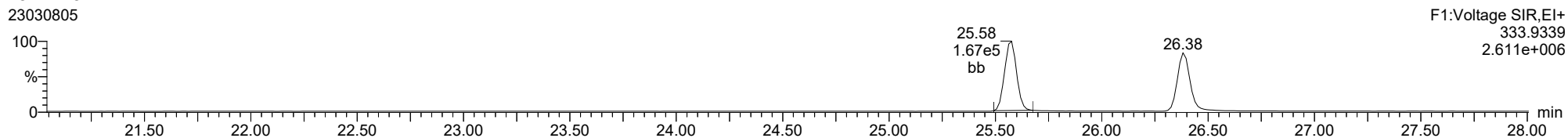
**13C-1234-TCDD**

23030805



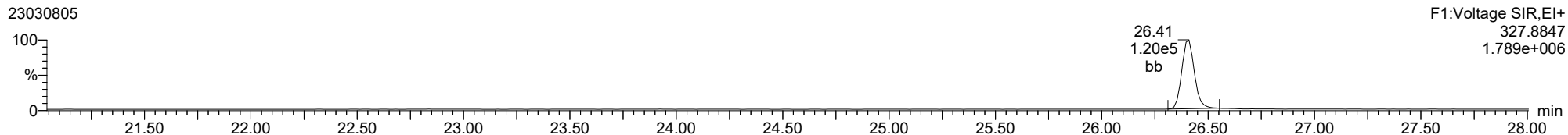
**13C-1234-TCDD**

23030805



**37CL-2378-TCDD**

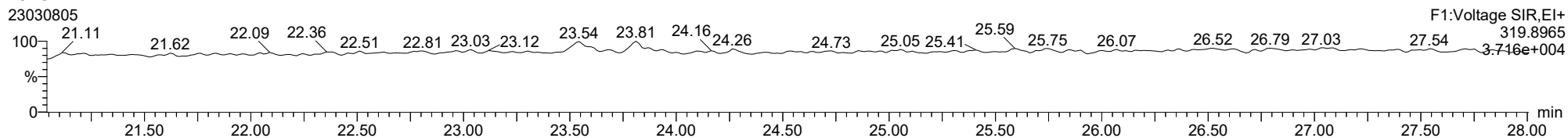
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

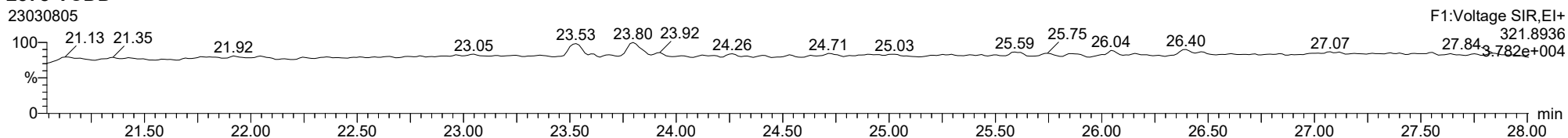
**2378-TCDD**

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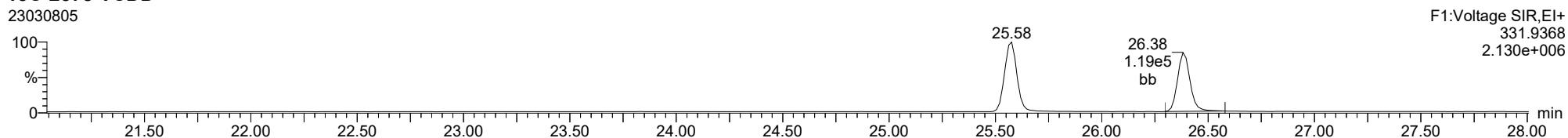
**2378-TCDD**

23030805



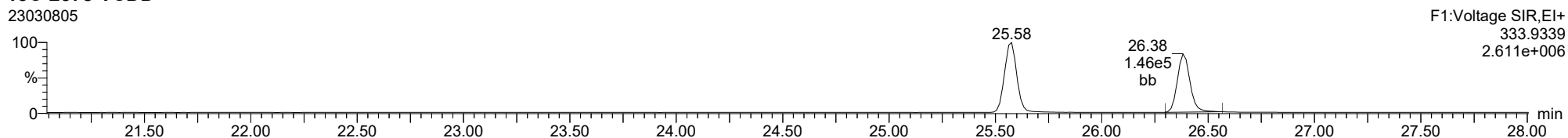
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23030805



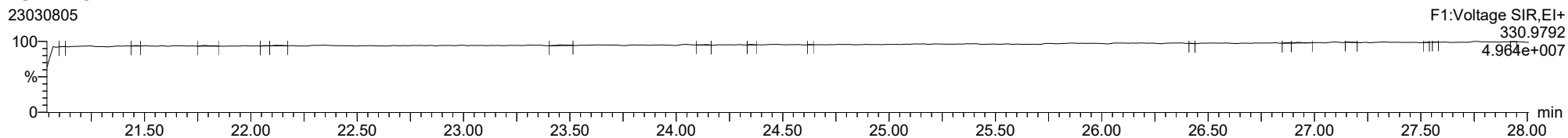
**13C-2378-TCDD**

23030805



**FUNCTION1 PFK**

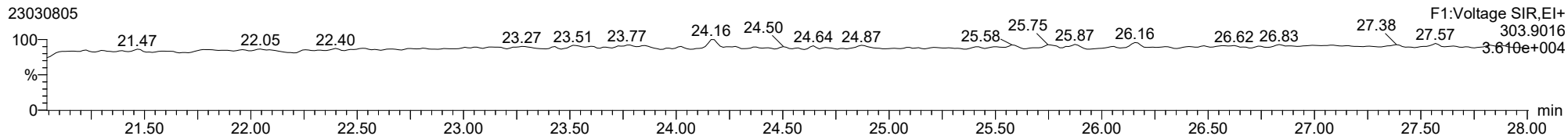
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

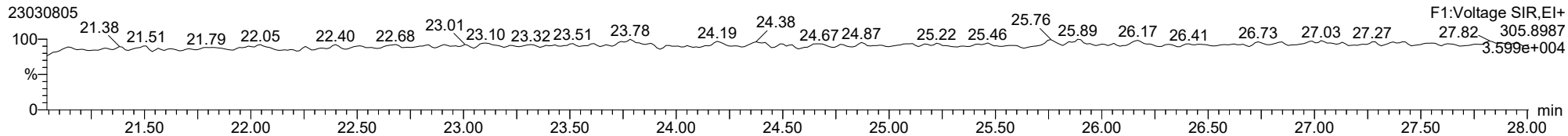
**2378-TCDF**

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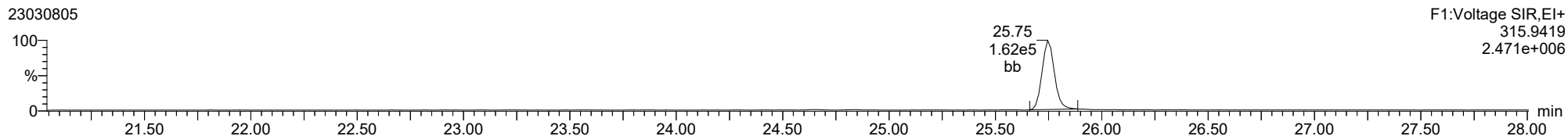
**2378-TCDF**

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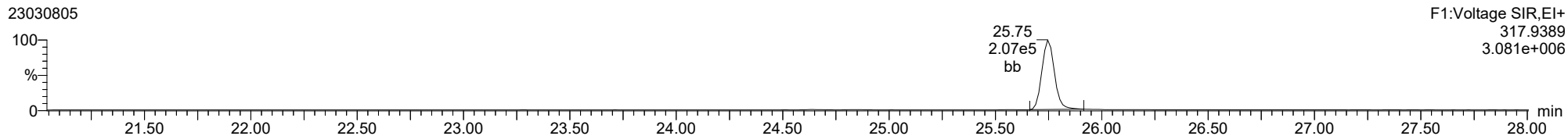
**13C-2378-TCDF**

23030805



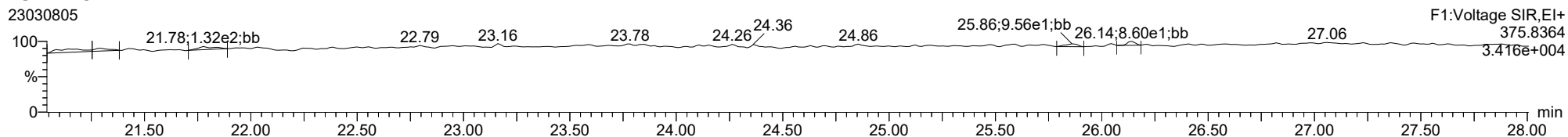
**13C-2378-TCDF**

23030805



**FUNCTION1 HXCDPE**

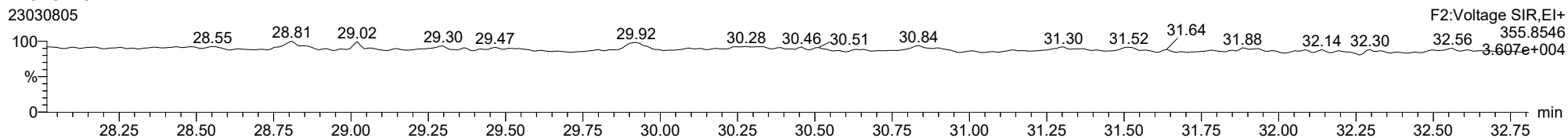
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

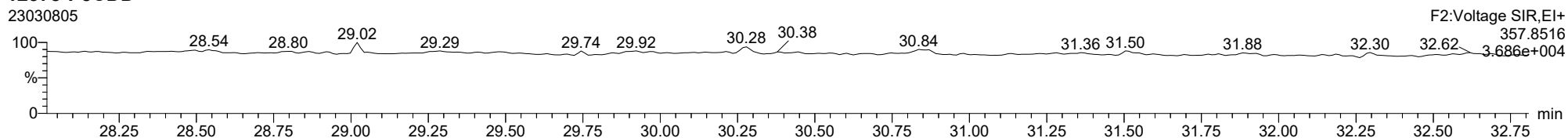
**12378-PeCDD**

23030805



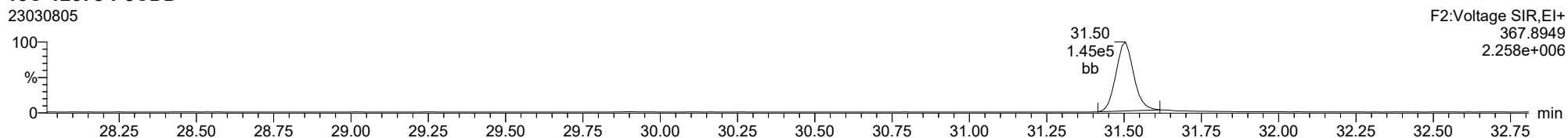
**12378-PeCDD**

23030805



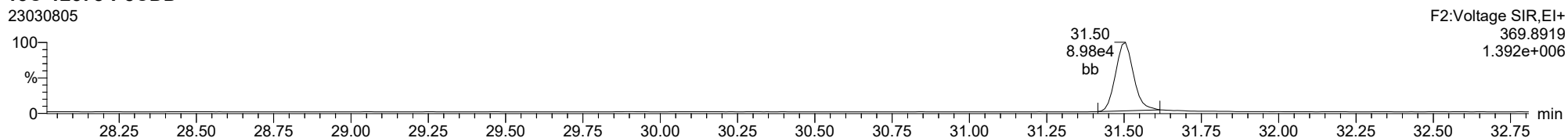
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23030805



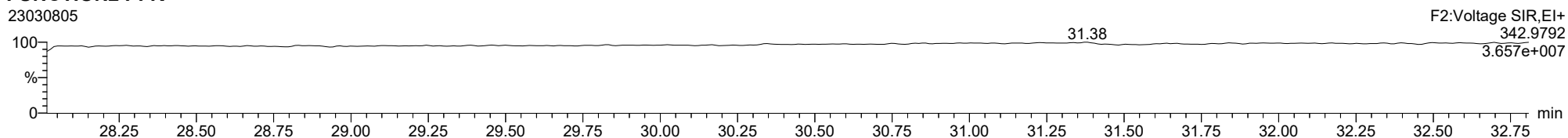
**13C-12378-PeCDD**

23030805



**FUNCTION2 PFK**

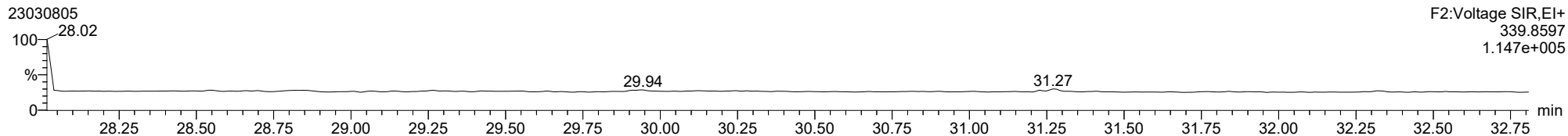
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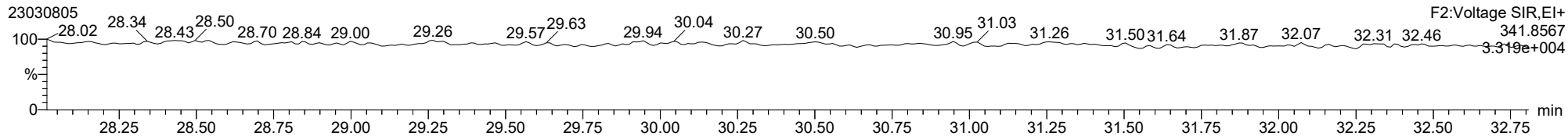


ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

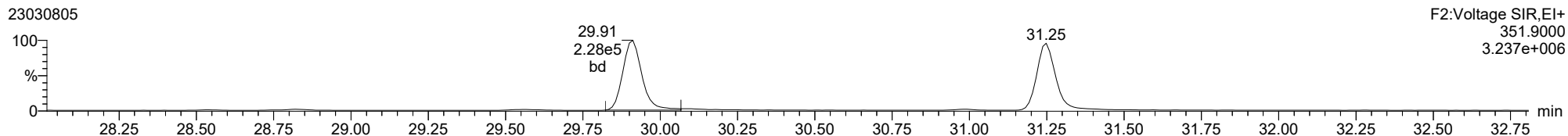
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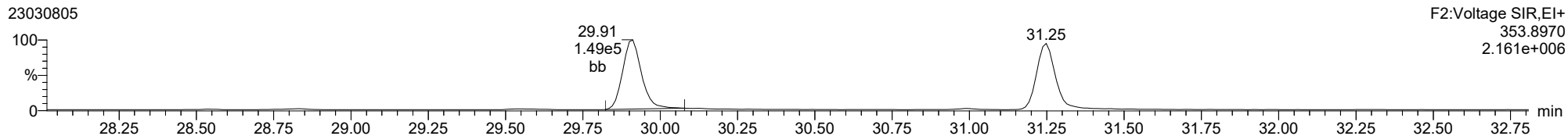
**12378-PeCDF**



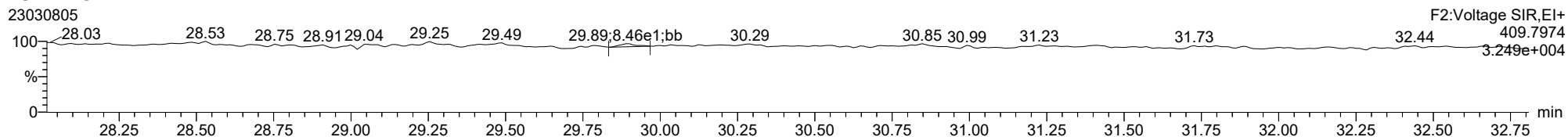
**13C-12378-PeCDF**



**13C-12378-PeCDF**

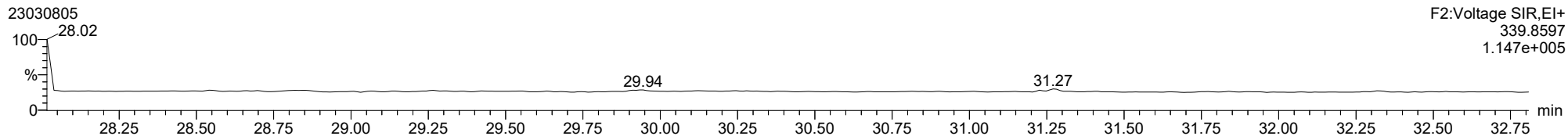


**FUNCTION2 HPCDPE**

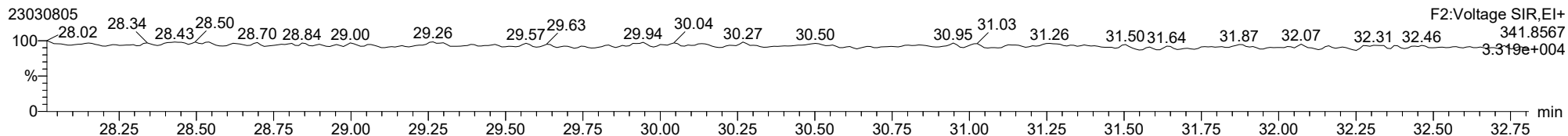


ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

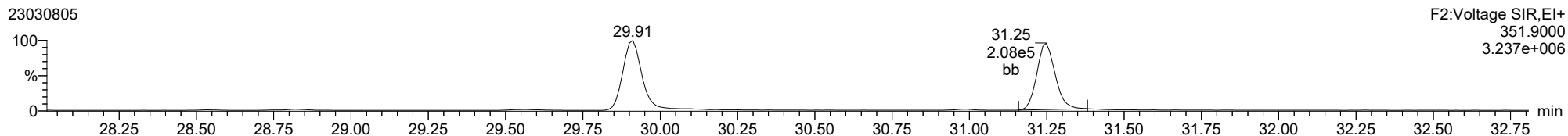
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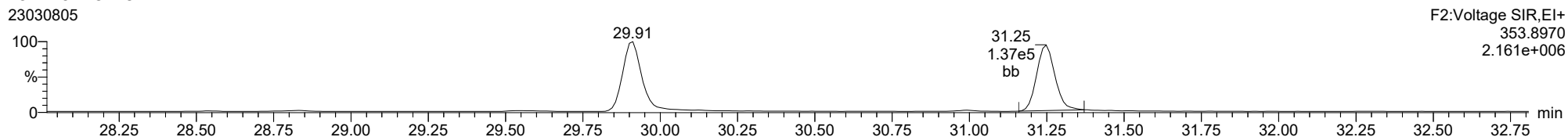
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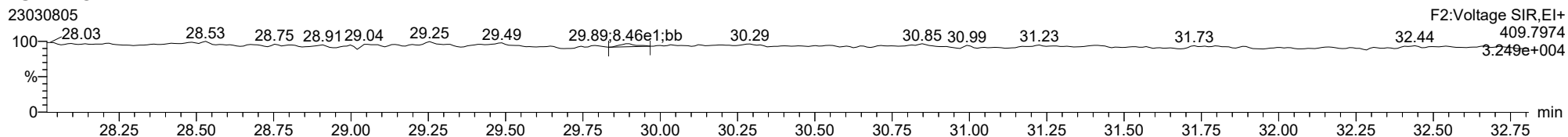
**13C-23478-PeCDF**



**13C-23478-PeCDF**



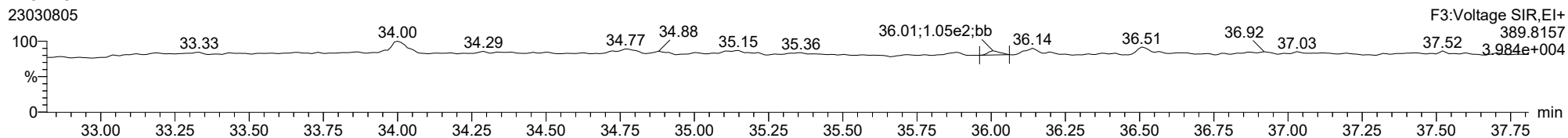
**FUNCTION2 HPCDPE**



ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

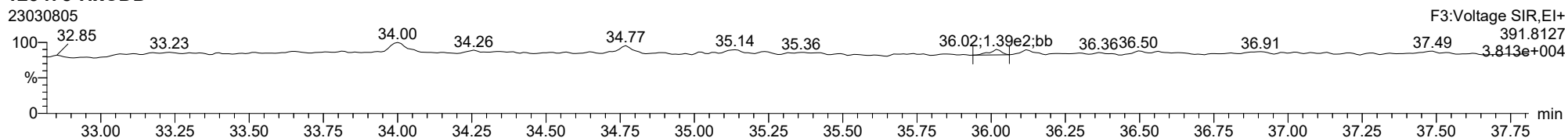
**123478-HxCDD**

23030805



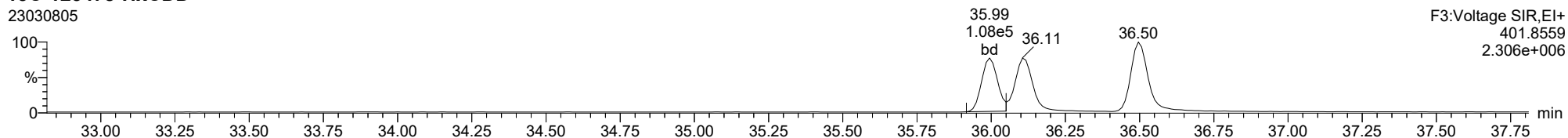
**123478-HxCDD**

23030805



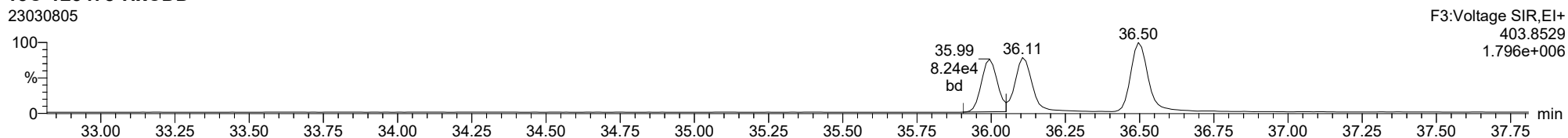
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23030805



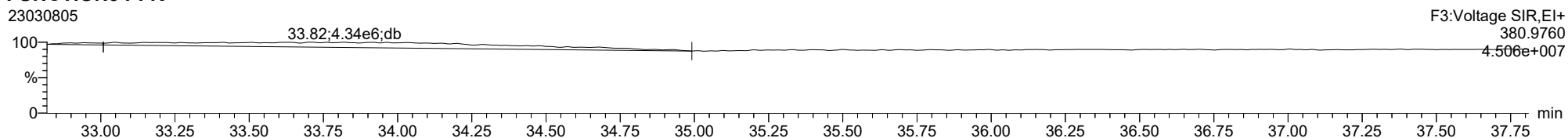
**13C-123478-HxCDD**

23030805



**FUNCTION3 PFK**

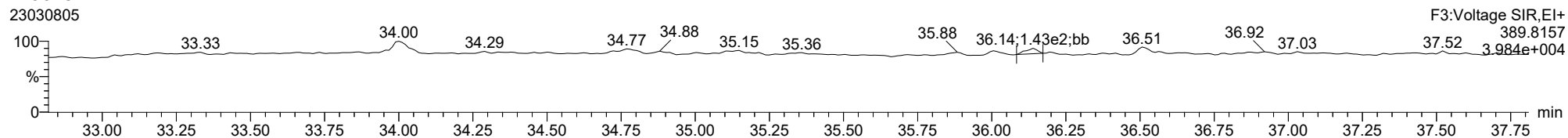
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

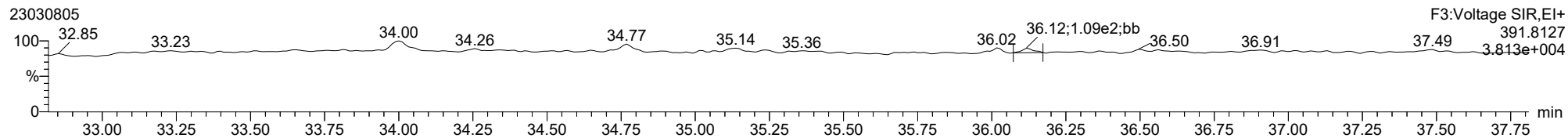
**123678-HxCDD**

23030805



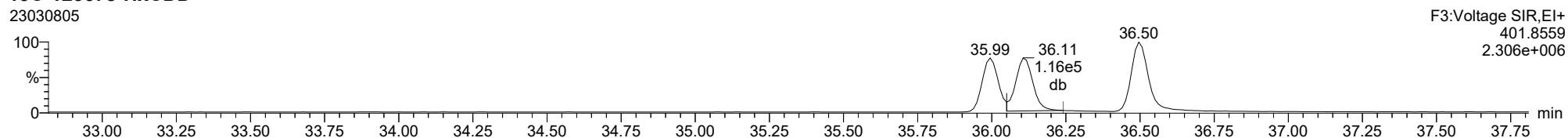
**123678-HxCDD**

23030805



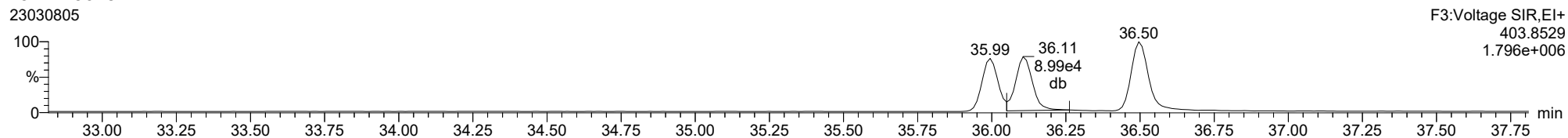
**13C-123678-HxCDD**

23030805



**13C-123678-HxCDD**

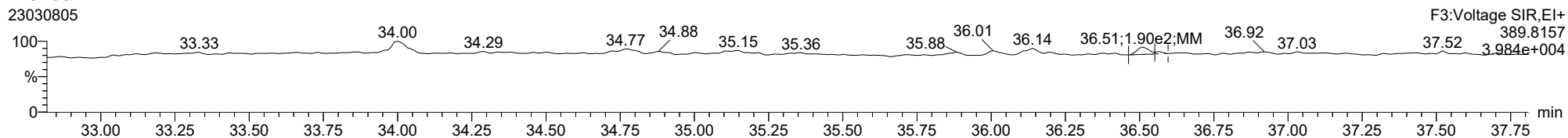
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

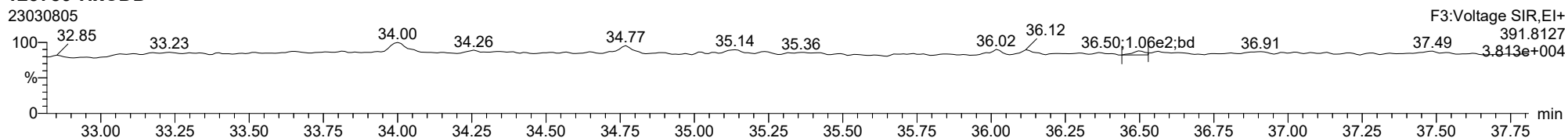
**123789-HxCDD**

23030805



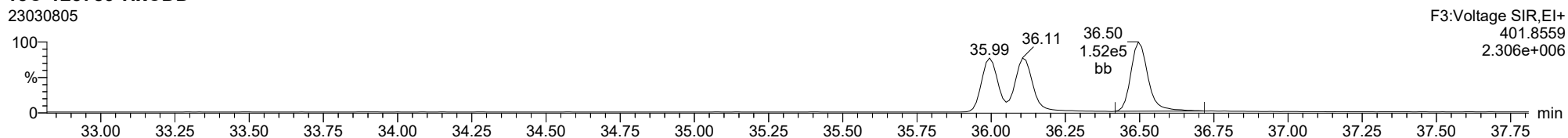
**123789-HxCDD**

23030805



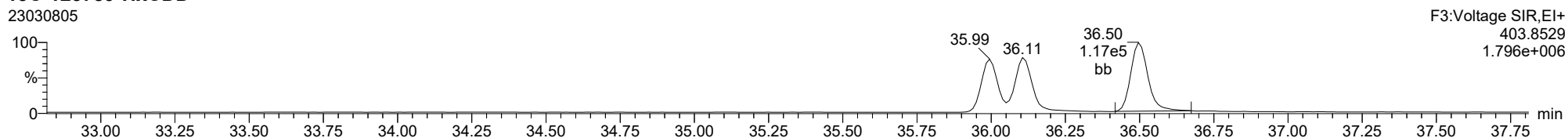
**13C-123789-HxCDD**

23030805



**13C-123789-HxCDD**

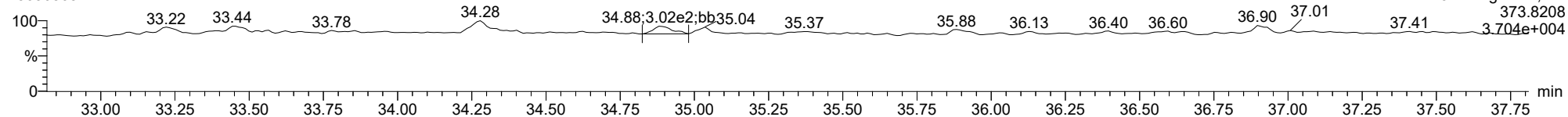
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

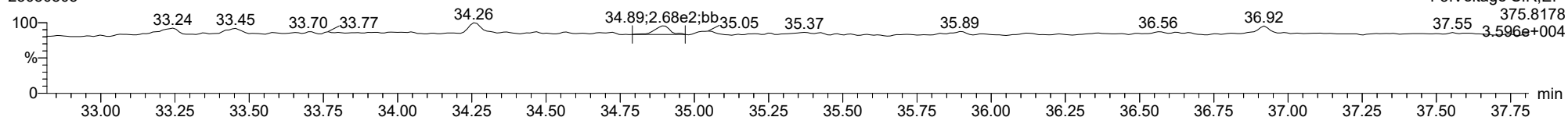
**123478-HxCDF**

23030805



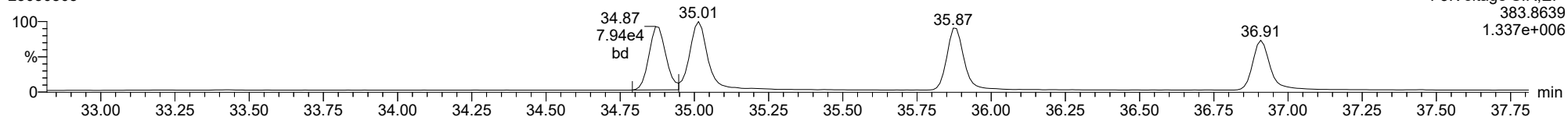
**123478-HxCDF**

23030805



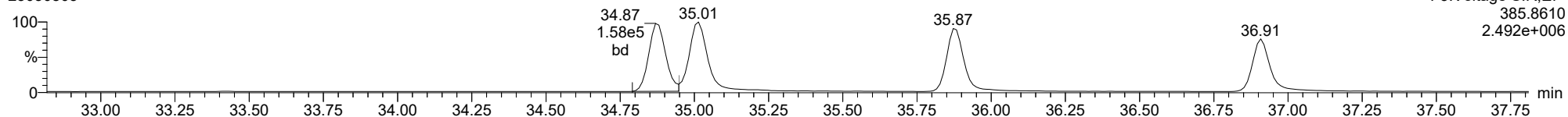
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23030805



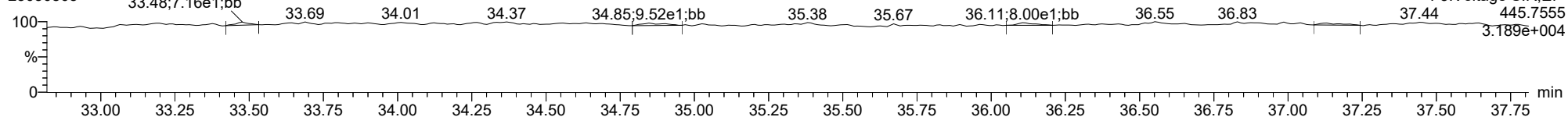
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23030805



**FUNCTION3 OCDPE**

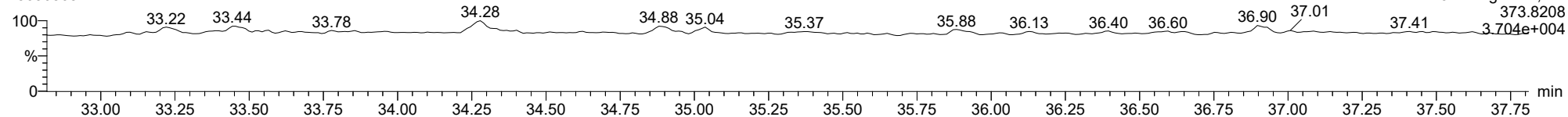
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

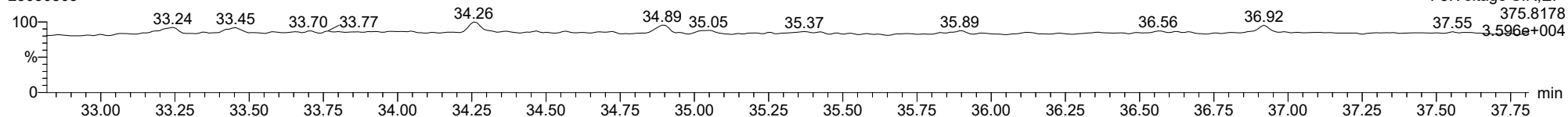
**234678-HxCDF**

23030805



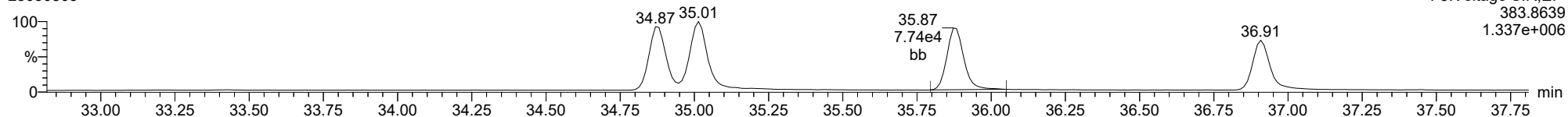
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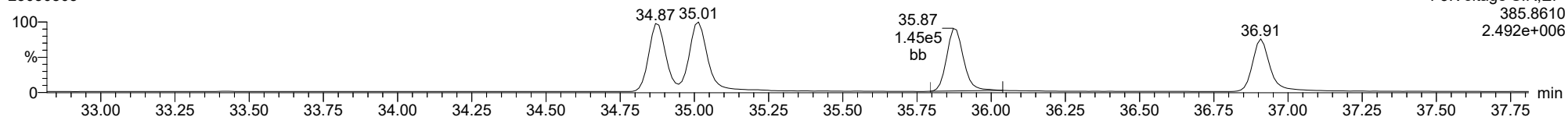
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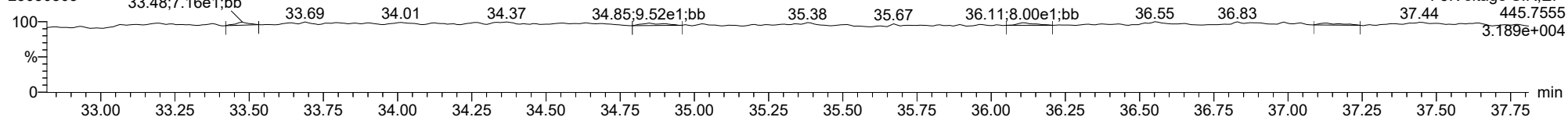
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**FUNCTION3 OCDPE**

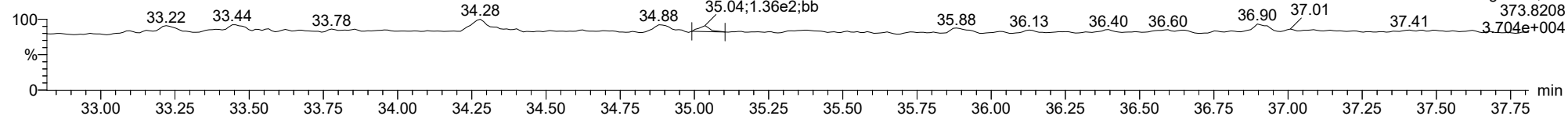
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

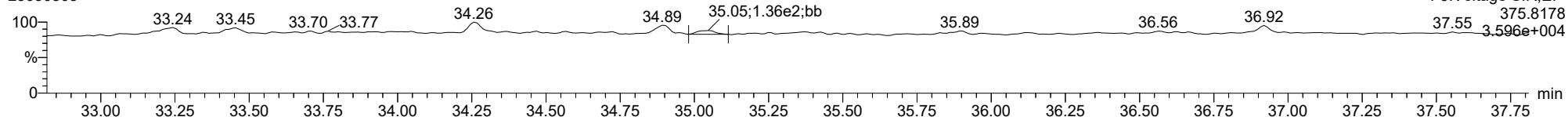
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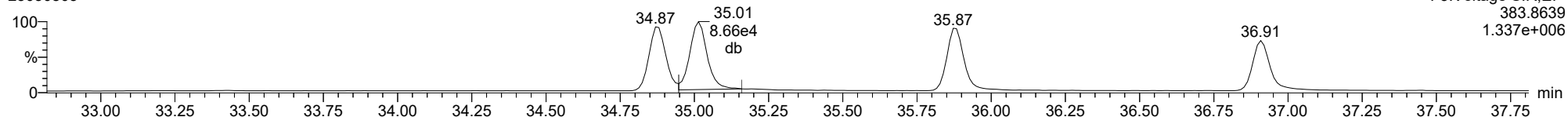
**123678-HxCDF**

23030805



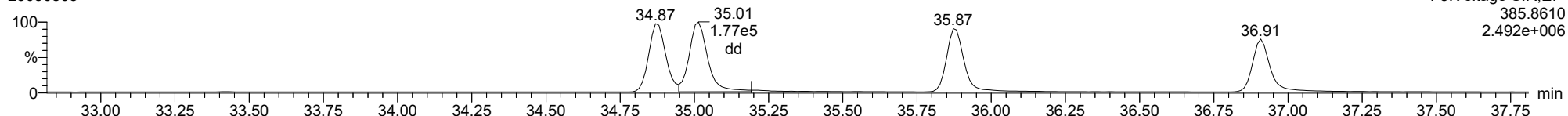
**13C-123678-HxCDF**

23030805



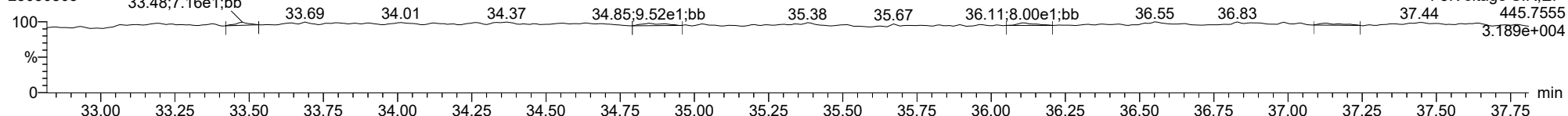
**13C-123678-HxCDF**

23030805



**FUNCTION3 OCDPE**

23030805

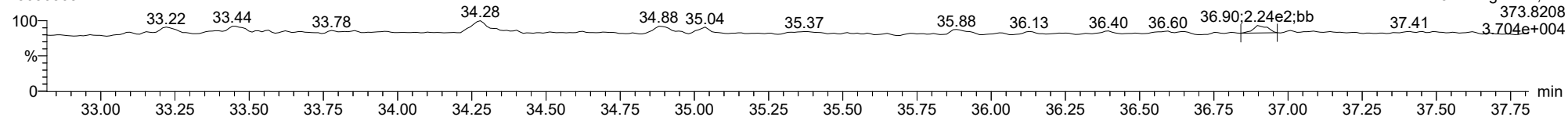




ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

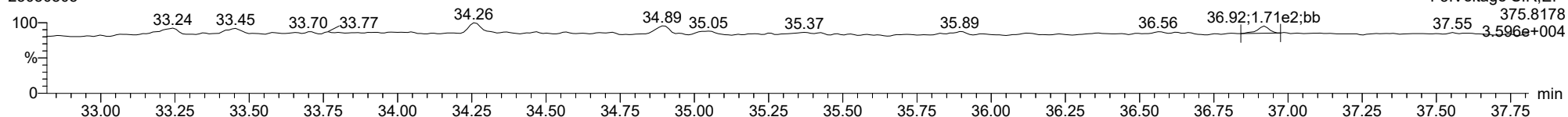
**123789-HxCDF**

23030805



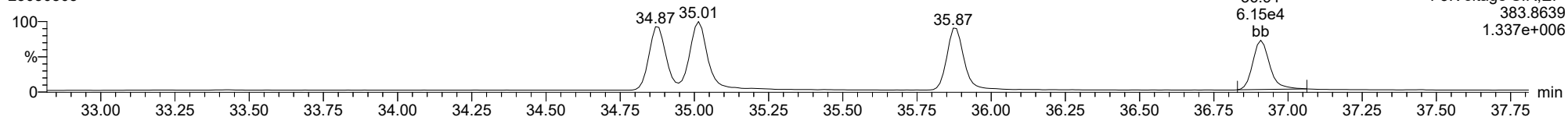
**123789-HxCDF**

23030805



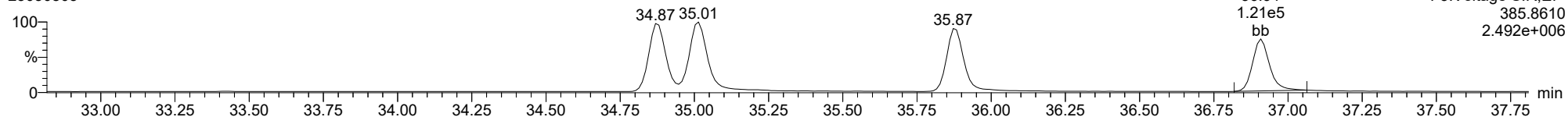
**13C-123789-HxCDF**

23030805



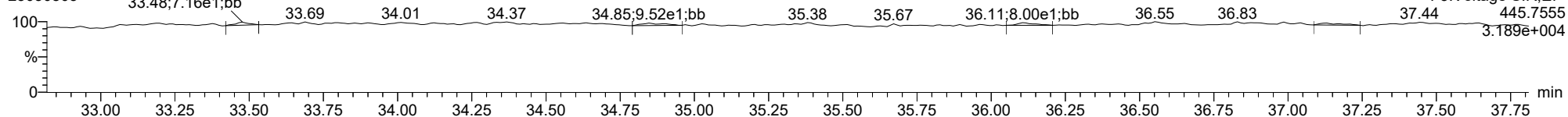
**13C-123789-HxCDF**

23030805



**FUNCTION3 OCDPE**

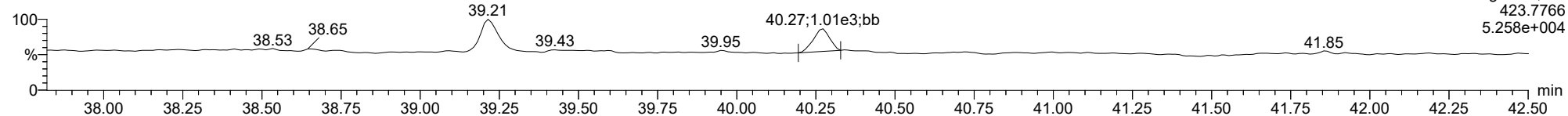
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ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

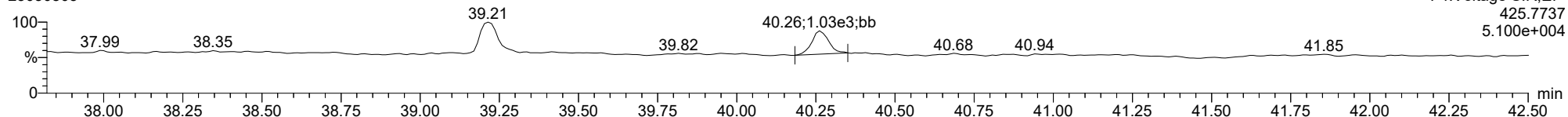
**1234678-HpCDD**

23030805



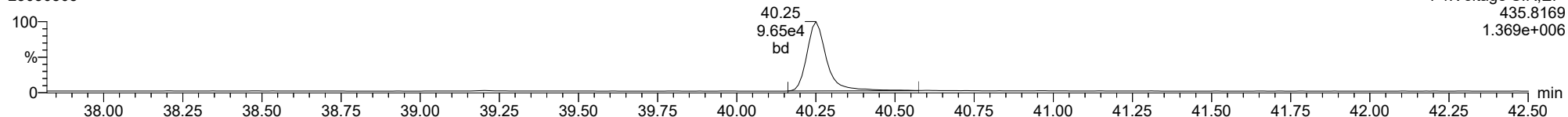
**1234678-HpCDD**

23030805



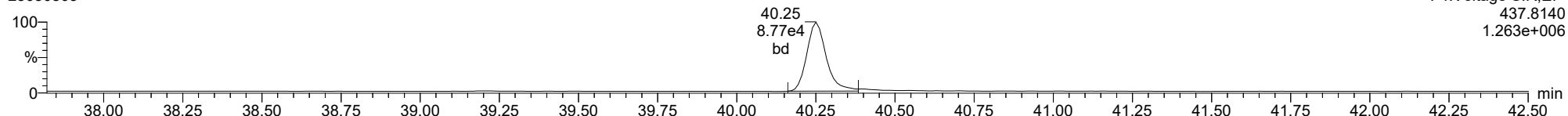
**13C-1234678-HpCDD**

23030805



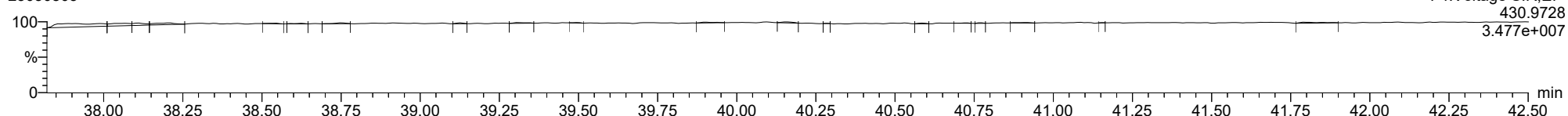
**13C-1234678-HpCDD**

23030805



**FUNCTION4 PFK**

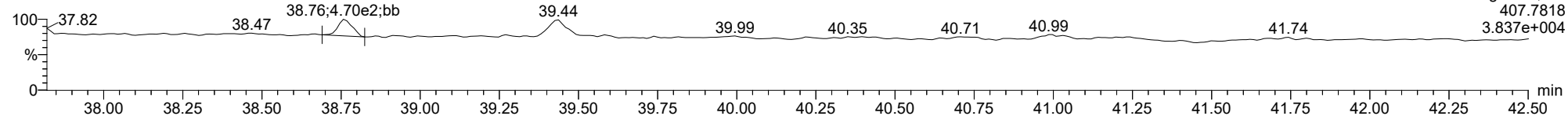
23030805



ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

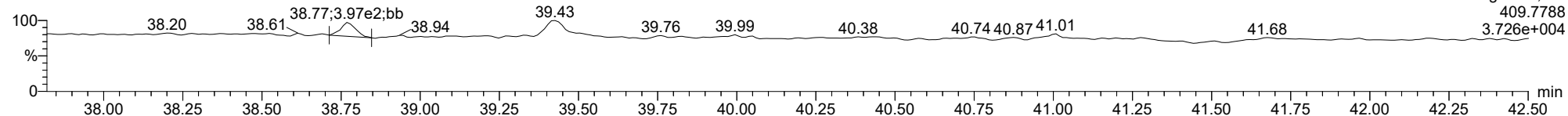
**1234678-HpCDF**

23030805



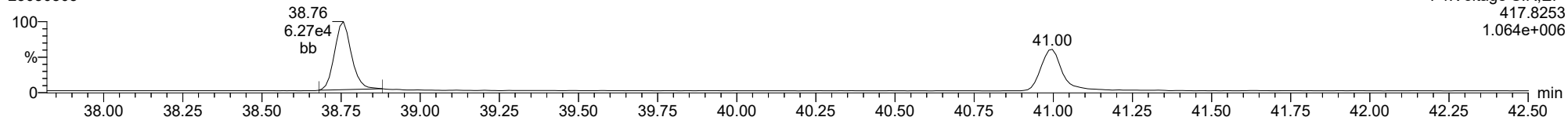
**1234678-HpCDF**

23030805



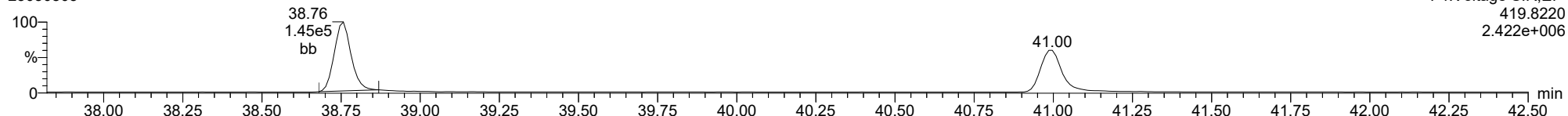
**13C-1234678-HpCDF**

23030805



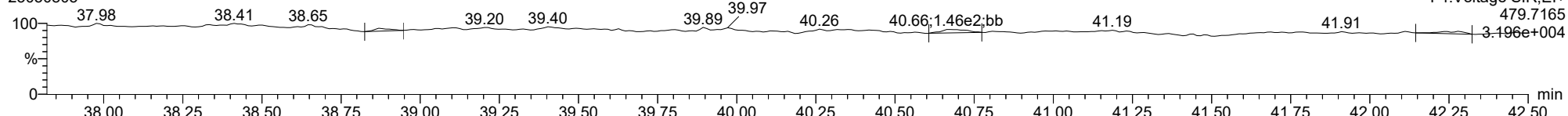
**13C-1234678-HpCDF**

23030805



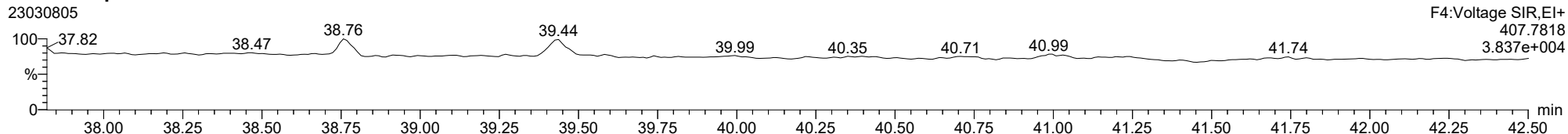
**FUNCTION4 NCDPE**

23030805

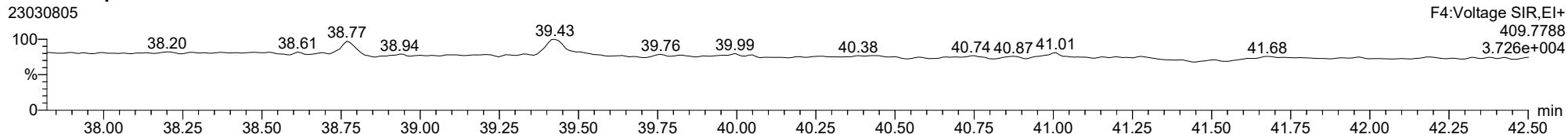


ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

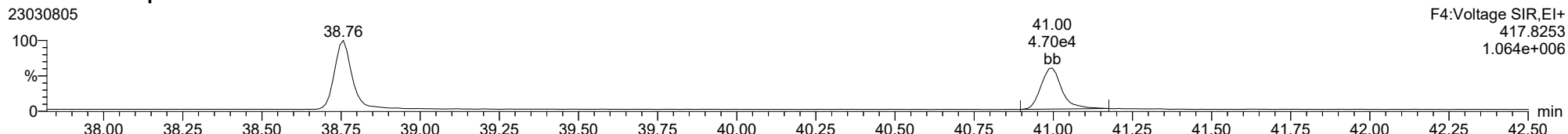
**1234789-HpCDF**



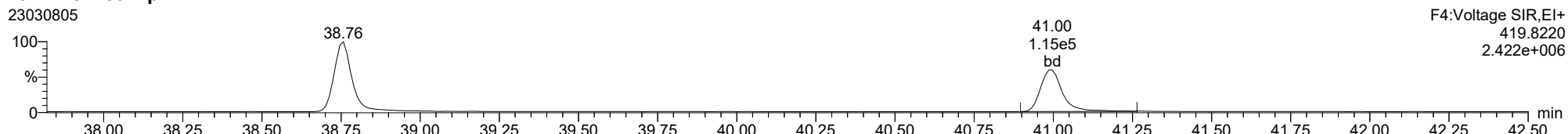
**1234789-HpCDF**



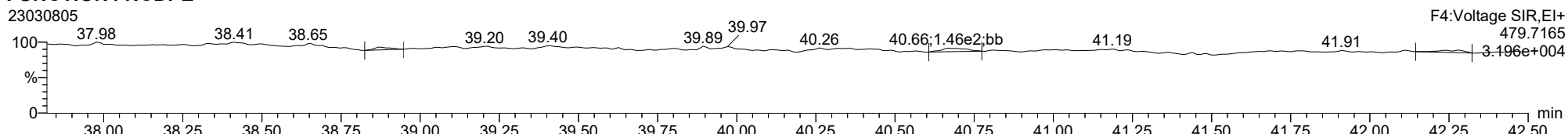
**13C-1234789-HpCDF**



**13C-1234789-HpCDF**



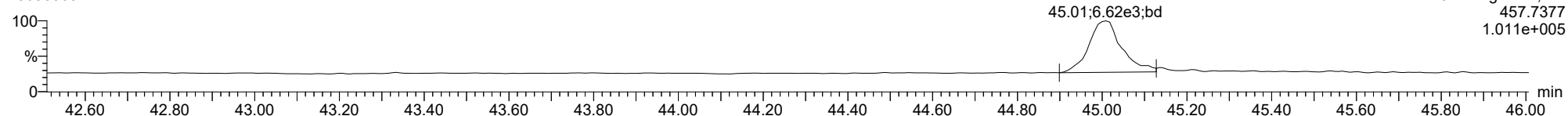
**FUNCTION4 NCDPE**



ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

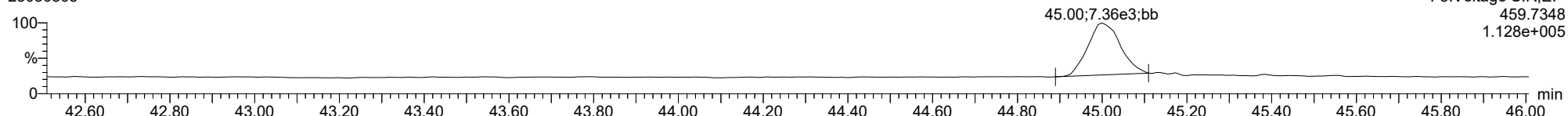
**OCDD**

23030805



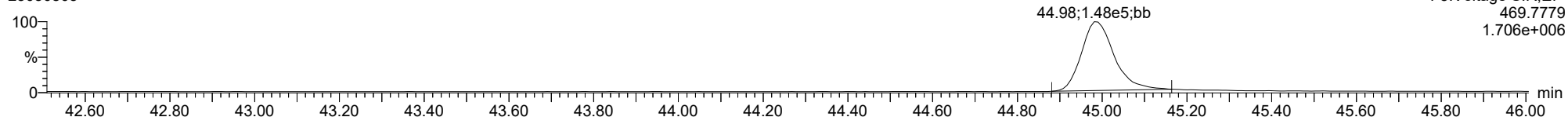
**OCDD**

23030805



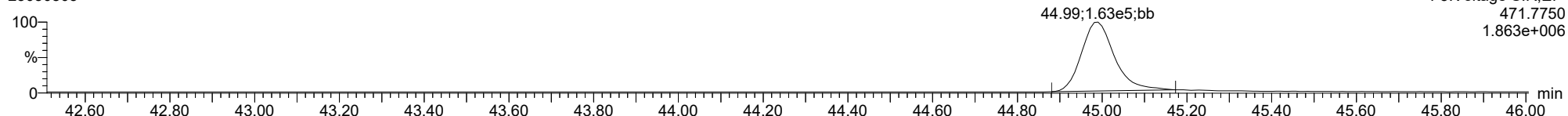
**13C-OCDD**

23030805



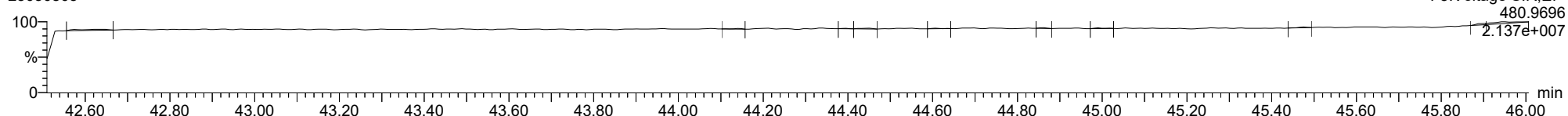
**13C-OCDD**

23030805



**FUNCTION5 PFK**

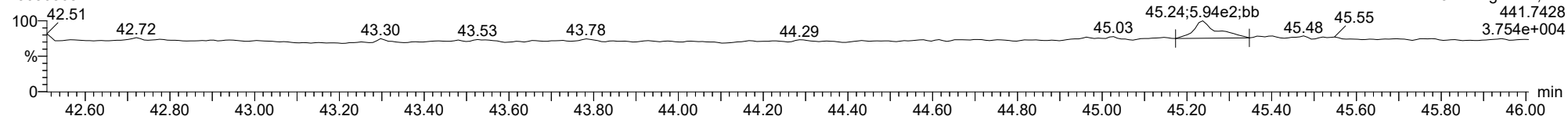
23030805



ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

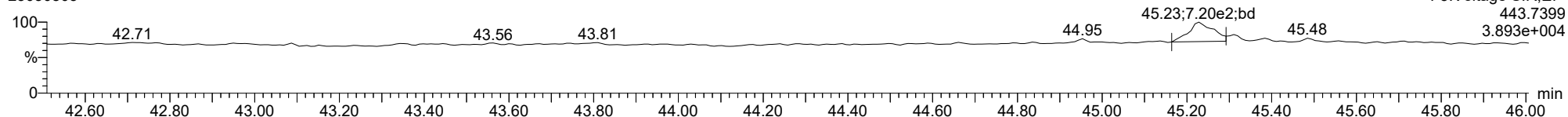
**OCDF**

23030805



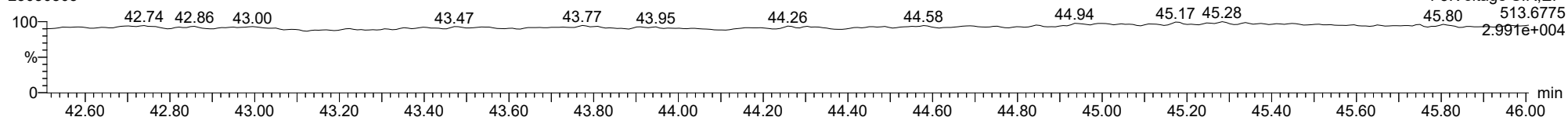
**OCDF**

23030805



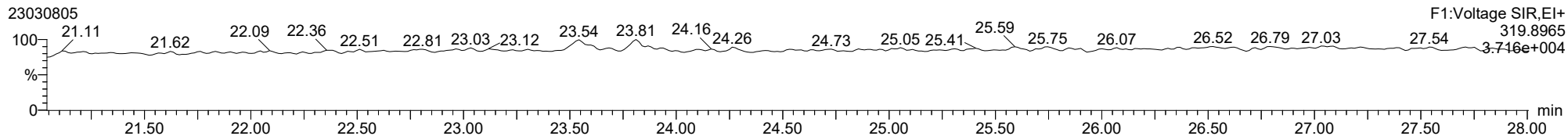
**FUNCTION5 DCDPE**

23030805

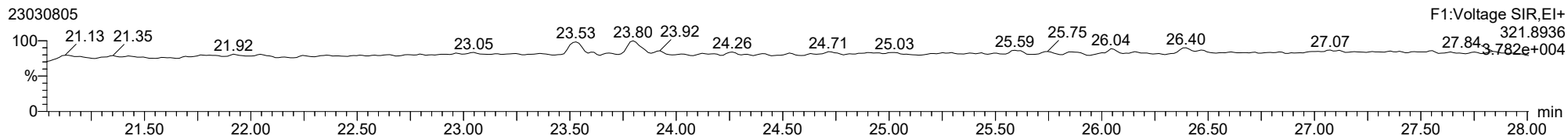


ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

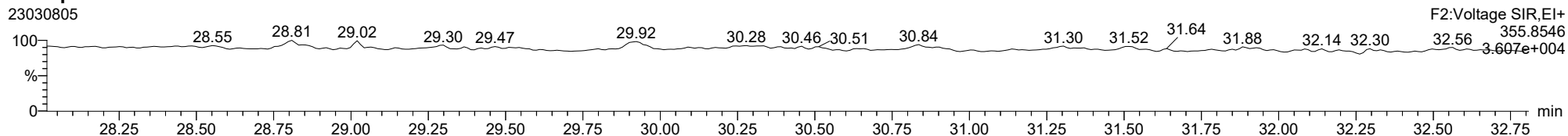
**Total-tetradoxins**



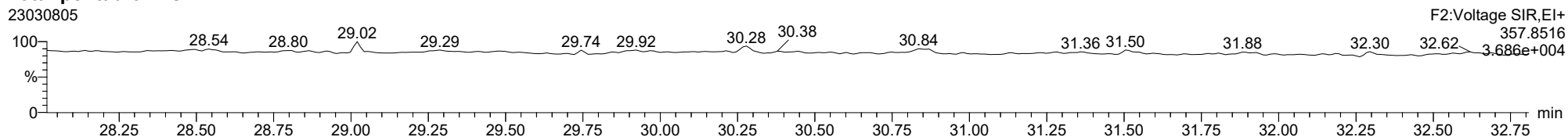
**Total-tetradoxins**



**Total-pentadoxins**

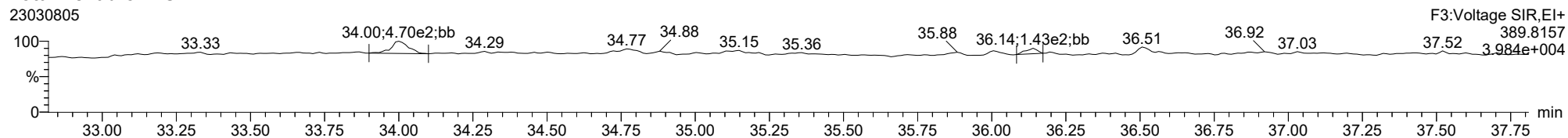


**Total-pentadoxins**

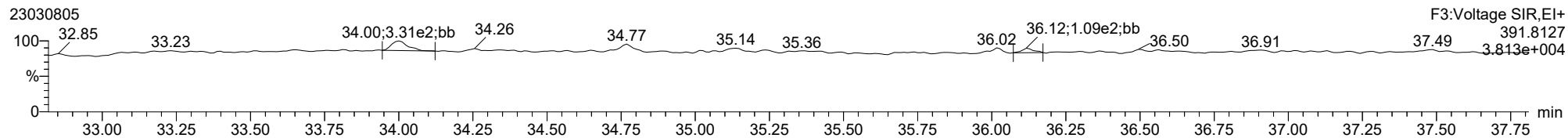


ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

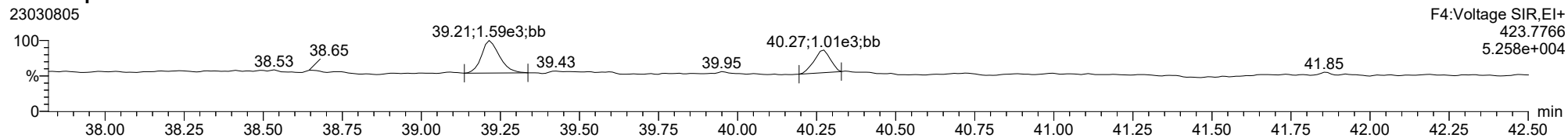
### Total-hexadioxins



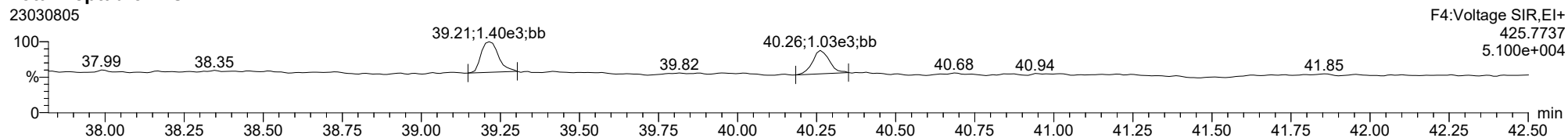
### Total-hexadioxins



### Total-heptadioxins



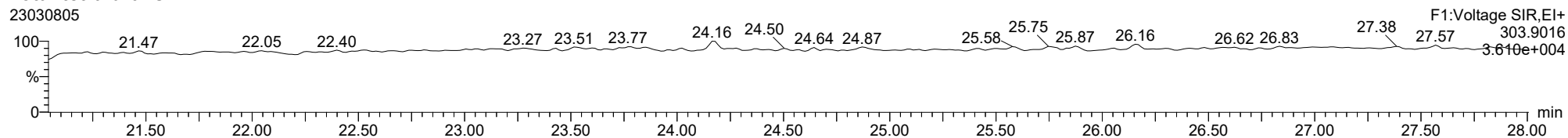
### Total-heptadioxins



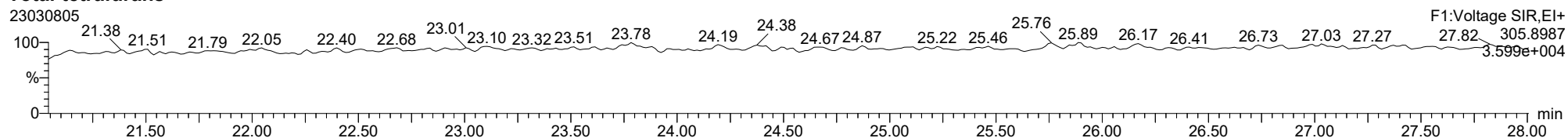


ID: 22L0246-45RE1, Name: 23030805, Date: 08-Mar-2023, Time: 13:08:10, Conditions: AUTOSPEC01, User: pk

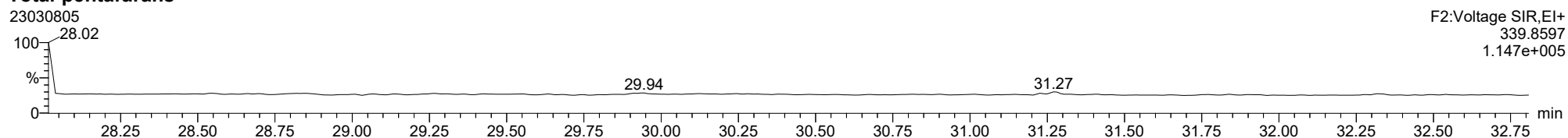
**Total-tetrafurans**



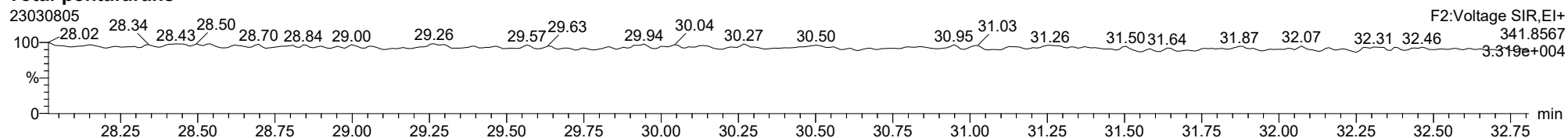
**Total-tetrafurans**



**Total-pentafurans**

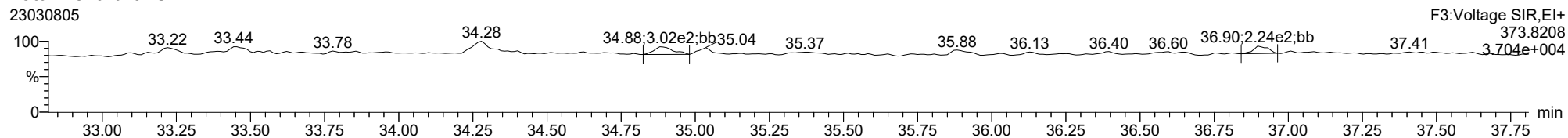


**Total-pentafurans**

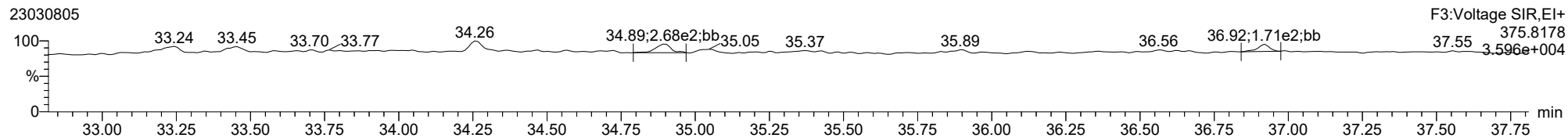


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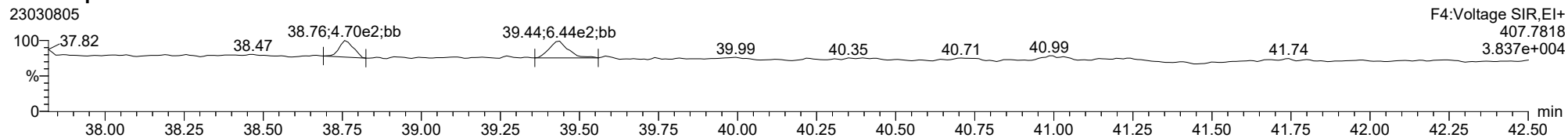
**Total-hexafurans**



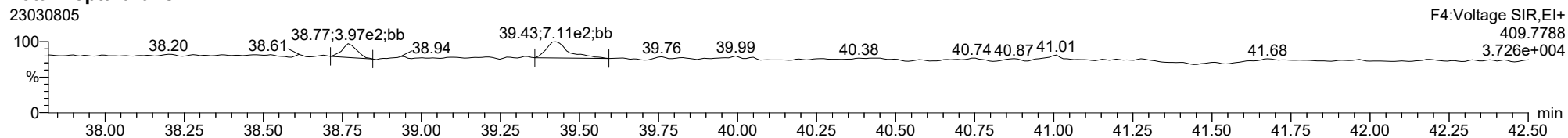
**Total-hexafurans**



**Total-heptafurans**



**Total-heptafurans**





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-46 A File ID: 23020131  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 13:55  
 % Solids: 83.24 Preparation: EPA 1613 Initial/Final: 12.04 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1		0.655-0.886	0.128	0.998	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1		0.655-0.886	0.127	0.998	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1		1.318-1.783	0.129	0.998	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1		1.318-1.783	0.133	0.998	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1		1.318-1.783	0.155	0.998	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1		1.054-1.426	0.096	0.998	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1		1.054-1.426	0.085	0.998	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1		1.054-1.426	0.091	0.998	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1		1.054-1.426	0.112	0.998	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1		1.054-1.426	0.119	0.998	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1		1.054-1.426	0.115	0.998	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1		1.054-1.426	0.119	0.998	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.914	0.893-1.208	0.078	0.998	0.607	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1		0.893-1.208	0.106	0.998	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.129	0.893-1.208	0.109	2.49	1.59	ng/kg	J, B
39001-02-0	OCDF	1	0.842	0.757-1.024	0.122	2.49	1.21	ng/kg	J, B
3268-87-9	OCDD	1	0.874	0.757-1.024	0.166	9.98	11.8	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			0.998	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.998	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.998	0.184	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.998	ND	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.998	0.242	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.998	1.69	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.998	3.16	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.026  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.233



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-46</u>
Sampled:	<u>12/09/22 11:44</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>83.24</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020131</u>
		Analyzed:	<u>02/02/23 13:55</u>
		Initial/Final:	<u>12.04 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.771	0.655-0.886	0.152	72.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.788	0.655-0.886	0.146	85.8	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.555	1.318-1.783	0.178	85.3	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.531	1.318-1.783	0.186	79.6	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.573	1.318-1.783	0.151	82.1	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.511	0.434-0.587	0.177	79.2	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.508	0.434-0.587	0.172	81.1	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.512	0.434-0.587	0.184	79.3	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.518	0.434-0.587	0.201	74.9	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.304	1.054-1.426	0.210	85.4	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.262	1.054-1.426	0.203	85.3	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.456	0.374-0.506	0.167	73.8	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.460	0.374-0.506	0.191	71.6	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.085	0.893-1.208	0.169	81.1	23 - 140 %	
13C12-OCDD		0.913	0.757-1.024	0.181	80.5	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.060	84.0	35 - 197 %	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:07:21 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
 Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.876		0.770	1146	1876								
12378-PeCDF					0.845		1.550	1326	1592								
23478-PeCDF					0.911		1.550	1326	1592								
123478-HxCDF					1.182		1.240	1099	1117								
234678-HxCDF					1.229		1.240	1099	1117								
123678-HxCDF					1.248		1.240	1099	1117								
123789-HxCDF					1.187		1.240	1099	1117								
1234678-HpCDF	38.839	1.000	1.171e3	1.281e3	1.204	0.914	1.050	769	1008	1.86e4	2.32e4	24.2	23.0	NO	bb	bd	0.304
1234789-HpCDF					1.165		1.050	769	1008								
OCDF	45.348	1.006	1.831e3	2.175e3	1.186	0.842	0.890	763	904	3.12e4	2.82e4	41.0	31.2	NO	bd	bb	0.607
2378-TCDD					1.236		0.770	1712	1395								
12378-PeCDD					1.087		1.550	1479	1127								
123478-HxCDD					0.987		1.240	1140	1182								
123678-HxCDD					1.021		1.240	1140	1182								
123789-HxCDD					0.985		1.240	1140	1182								
1234678-HpCDD	40.343	1.000	2.941e3	2.604e3	1.253	1.129	1.050	1129	836	4.05e4	4.06e4	35.8	48.5	NO	bb	bb	0.797
OCDD	45.110	1.000	1.683e4	1.926e4	1.103	0.874	0.890	1020	1092	2.12e5	2.46e5	208.0	225.5	NO	bb	bb	5.888
13C-2378-TCDF	25.867	1.006	4.521e5	5.867e5	1.768	0.771	0.770	2742	2942	7.00e6	9.01e6	2554.6	3062.6	NO	bb	bb	72.410
13C-12378-PeCDF	30.015	1.168	6.435e5	4.138e5	1.527	1.555	1.550	3234	2535	9.78e6	6.37e6	3025.0	2512.6	NO	bb	bb	85.320
13C-23478-PeCDF	31.352	1.220	5.729e5	3.742e5	1.466	1.531	1.550	3234	2535	8.72e6	5.73e6	2696.9	2260.5	NO	bb	bb	79.605
13C-123478-HxCDF	34.973	0.956	2.471e5	4.833e5	1.054	0.511	0.510	1803	2726	3.97e6	7.72e6	2202.7	2830.1	NO	bd	bd	79.169
13C-123678-HxCDF	35.106	0.960	2.583e5	5.089e5	1.080	0.508	0.510	1803	2726	4.22e6	8.34e6	2341.9	3060.4	NO	db	db	81.127
13C-234678-HxCDF	35.964	0.983	2.384e5	4.658e5	1.014	0.512	0.510	1803	2726	4.03e6	7.86e6	2237.2	2884.8	NO	bb	bb	79.289
13C-123789-HxCDF	36.989	1.011	2.075e5	4.008e5	0.928	0.518	0.510	1803	2726	3.40e6	6.70e6	1883.2	2458.4	NO	bb	bb	74.870
13C-1234678-HpCDF	38.827	1.061	2.097e5	4.600e5	1.036	0.456	0.440	1839	2366	3.57e6	7.90e6	1939.6	3338.2	NO	bb	bb	73.818
13C-1234789-HpCDF	41.078	1.123	1.787e5	3.890e5	0.905	0.460	0.440	1839	2366	2.70e6	5.91e6	1468.1	2498.7	NO	bb	bb	71.647
13C-1234-TCDD	25.700	0.000	3.609e5	4.505e5	1.000	0.801	0.770	2221	1196	5.64e6	7.02e6	2537.7	5872.4	NO	bb	bb	100.000
13C-2378-TCDD	26.501	1.031	3.384e5	4.295e5	1.103	0.788	0.770	2221	1196	5.22e6	6.68e6	2348.8	5583.3	NO	bb	bb	85.800
13C-12378-PeCDD	31.608	1.230	3.724e5	2.367e5	0.914	1.573	1.550	1661	1260	5.65e6	3.53e6	3402.3	2801.7	NO	bb	bb	82.114
13C-123478-HxCDD	36.087	0.986	3.950e5	3.028e5	0.933	1.304	1.240	2105	2655	6.68e6	5.13e6	3175.0	1933.5	NO	bd	bd	85.432
13C-123678-HxCDD	36.198	0.989	4.021e5	3.186e5	0.965	1.262	1.240	2105	2655	6.59e6	5.26e6	3131.9	1980.5	NO	db	db	85.323
13C-1234678-HpCDD	40.332	1.102	2.891e5	2.665e5	0.782	1.085	1.050	1569	1654	4.50e6	4.16e6	2870.1	2517.4	NO	bb	bb	81.141
13C-OCDD	45.092	1.232	5.306e5	5.812e5	0.788	0.913	0.890	1968	1496	6.59e6	7.19e6	3350.1	4801.6	NO	bb	bb	161.085
13C-123789-HxCDD	36.588	0.000	4.880e5	3.876e5	1.000	1.259	1.240	2105	2655	8.12e6	6.40e6	3855.3	2412.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	3.364e5		1.233			1574		5.02e6		3192.8			bb		33.614

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ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	1146	1876								
1289-TCDF					0.858		0.770	1146	1876								
13468-PECDF					1.013		1.550	1129	1117								
12389-PECDF					0.844		1.550	1326	1592								
123468-HXCDF					1.197		1.240	1099	1117								
1368-TCDD					1.084		0.770	1712	1395								
1289-TCDD					0.975		0.770	1712	1395								
12479-PECDD	28.923	0.915	3.497e2	1.570e2	1.837	2.228	1.550	1479	1127	5.27e3	3.12e3	3.6	2.8	YES	db	db	0.045
12389-PECDD					1.252		1.550	1479	1127								
124679-HXCDD	34.104	0.945	5.023e2	3.730e2	1.033	1.347	1.240	1140	1182	7.34e3	6.19e3	6.4	5.2	NO	bb	bb	0.121
1234679-HPCDD	39.306	0.975	2.899e3	2.721e3	1.286	1.065	1.050	1129	836	4.30e4	4.18e4	38.1	50.0	NO	bb	bb	0.787
Total-tetrafurans			0.000e0		0.933			1146		0.00e0							
Total-penta1			0.000e0					1129		0.00e0							
Total-pentafurans			0.000e0		0.866			1326		0.00e0							
Total-hexafurans			0.000e0		1.208			1099		0.00e0							
Total-heptafurans			3.278e3		1.185			769		4.87e4							0.849
Total-Furans			5.109e3		1.067			1146		7.99e4							1.457
Total-tetradoxins			0.000e0		1.099			1712		0.00e0							
Total-pentadoxins			4.869e2		1.392			1479		6.54e3							0.092
Total-hexadoxins			5.023e2		1.007			1140		7.34e3							0.121
Total-heptadoxins			5.840e3		1.269			1129		8.35e4							1.583
Total-Dioxins			2.366e4		1.165			1712		3.10e5							7.685
Total-TEQ			2.877e4					1712		3.89e5							9.142
FUNCTION1 PFK			2.071e6					898927		7.37e6							
FUNCTION2 PFK			3.196e5					725493		9.81e6							0.000
FUNCTION3 PFK			5.055e5					459970		1.61e7							0.000
FUNCTION4 PFK			2.180e5					353278		7.61e6							
FUNCTION5 PFK			0.000e0					201675		0.00e0							
FUNCTION1 HXCD...			1.566e3					1067		2.41e4							0.000
FUNCTION1 HPCD...			7.228e2					1152		1.42e4							0.000
FUNCTION2 HPCD...			5.087e2					1198		1.35e4							0.000
FUNCTION3 OCDPE			8.339e2					719		1.44e4							0.000
FUNCTION4 NCDPE			1.239e3					1103		2.40e4							0.000
FUNCTION5 DCDPE			2.483e2					803		5.29e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

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**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.51	2.107e3	1.890e3	1.185	1.12	1.05	39.1	YES	NO	bd	bb	0.545
2	1234678-HpCDF	38.84	1.171e3	1.281e3	1.204	0.91	1.05	24.2	YES	NO	bb	bd	0.304

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.51	2.107e3	1.890e3	1.185	1.12	1.05	39.1	YES	NO	bd	bb	0.545
2	1234678-HpCDF	38.84	1.171e3	1.281e3	1.204	0.91	1.05	24.2	YES	NO	bb	bd	0.304
3	OCDF	45.35	1.831e3	2.175e3	1.186	0.84	0.89	41.0	YES	NO	bd	bb	0.607

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

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**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.04	4.869e2	2.950e2	1.392	1.65	1.55	4.4	YES	NO	bb	bb	0.092

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.10	5.023e2	3.730e2	1.033	1.35	1.24	6.4	YES	NO	bb	bb	0.121

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.34	2.941e3	2.604e3	1.253	1.13	1.05	35.8	YES	NO	bb	bb	0.797
2	1234679-HPCDD	39.31	2.899e3	2.721e3	1.286	1.07	1.05	38.1	YES	NO	bb	bb	0.787

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.04	4.869e2	2.950e2	1.392	1.65	1.55	4.4	YES	NO	bb	bb	0.092
2	124679-HXCDD	34.10	5.023e2	3.730e2	1.033	1.35	1.24	6.4	YES	NO	bb	bb	0.121
3	1234678-HpCDD	40.34	2.941e3	2.604e3	1.253	1.13	1.05	35.8	YES	NO	bb	bb	0.797
4	1234679-HPCDD	39.31	2.899e3	2.721e3	1.286	1.07	1.05	38.1	YES	NO	bb	bb	0.787
5	OCDD	45.11	1.683e4	1.926e4	1.103	0.87	0.89	208.0	YES	NO	bb	bb	5.888

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.51	2.107e3	1.890e3	1.185	1.12	1.05	39.1	YES	NO	bd	bb	0.545
2	1234678-HpCDF	38.84	1.171e3	1.281e3	1.204	0.91	1.05	24.2	YES	NO	bb	bd	0.304
3	OCDF	45.35	1.831e3	2.175e3	1.186	0.84	0.89	41.0	YES	NO	bd	bb	0.607
4	Total-pentadioxins	30.04	4.869e2	2.950e2	1.392	1.65	1.55	4.4	YES	NO	bb	bb	0.092
5	124679-HXCDD	34.10	5.023e2	3.730e2	1.033	1.35	1.24	6.4	YES	NO	bb	bb	0.121
6	1234678-HpCDD	40.34	2.941e3	2.604e3	1.253	1.13	1.05	35.8	YES	NO	bb	bb	0.797
7	1234679-HPCDD	39.31	2.899e3	2.721e3	1.286	1.07	1.05	38.1	YES	NO	bb	bb	0.787
8	OCDD	45.11	1.683e4	1.926e4	1.103	0.87	0.89	208.0	YES	NO	bb	bb	5.888



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## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.69	1.076e6					2.7	NO		bb		
2	FUNCTION1 PFK	21.32	9.943e5					5.5	YES		bb		

## PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.50	1.867e4					1.0	NO		db		0.000
2	FUNCTION2 PFK	30.47	6.144e3					0.6	NO		bd		0.000
3	FUNCTION2 PFK	30.32	3.301e4					1.0	NO		bb		0.000
4	FUNCTION2 PFK	29.98	6.543e3					0.5	NO		bb		0.000
5	FUNCTION2 PFK	29.65	1.688e4					1.0	NO		bb		0.000
6	FUNCTION2 PFK	29.38	1.671e4					1.0	NO		bb		0.000
7	FUNCTION2 PFK	29.07	1.974e4					0.8	NO		bb		0.000
8	FUNCTION2 PFK	29.02	1.275e4					0.9	NO		bb		0.000
9	FUNCTION2 PFK	28.84	3.240e3					0.4	NO		bb		0.000
10	FUNCTION2 PFK	32.77	4.094e3					0.5	NO		bb		0.000
11	FUNCTION2 PFK	32.25	2.154e4					1.1	NO		bb		0.000
12	FUNCTION2 PFK	32.00	4.782e4					1.7	NO		bb		0.000
13	FUNCTION2 PFK	31.69	4.618e4					1.6	NO		bb		0.000
14	FUNCTION2 PFK	31.53	4.046e4					0.0	NO		bb		0.000
15	FUNCTION2 PFK	31.32	1.381e4					0.6	NO		bb		0.000
16	FUNCTION2 PFK	30.94	9.132e3					0.5	NO		bb		0.000
17	FUNCTION2 PFK	30.55	2.888e3					0.4	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.49	3.168e4					1.2	NO		bd		0.000
2	FUNCTION3 PFK	34.45	3.825e4					1.7	NO		bb		0.000
3	FUNCTION3 PFK	33.99	9.174e3					1.1	NO		bb		0.000
4	FUNCTION3 PFK	33.95	7.192e3					0.8	NO		bb		0.000
5	FUNCTION3 PFK	33.74	8.046e3					0.6	NO		bb		0.000
6	FUNCTION3 PFK	33.23	5.216e3					1.0	NO		bb		0.000
7	FUNCTION3 PFK	33.19	5.957e3					0.6	NO		bb		0.000
8	FUNCTION3 PFK	36.43	7.546e3					0.8	NO		bb		0.000
9	FUNCTION3 PFK	36.29	8.967e3					0.8	NO		bb		0.000
10	FUNCTION3 PFK	36.12	2.528e3					0.5	NO		bb		0.000
11	FUNCTION3 PFK	36.04	1.008e4					0.9	NO		bb		0.000
12	FUNCTION3 PFK	35.94	4.127e4					1.2	NO		bb		0.000
13	FUNCTION3 PFK	35.69	2.306e3					0.4	NO		bb		0.000
14	FUNCTION3 PFK	35.54	8.010e3					0.9	NO		bb		0.000
15	FUNCTION3 PFK	35.50	7.901e3					0.8	NO		bb		0.000
16	FUNCTION3 PFK	35.44	4.188e4					2.2	NO		bb		0.000
17	FUNCTION3 PFK	35.17	4.962e3					0.6	NO		bb		0.000
18	FUNCTION3 PFK	35.11	4.574e3					0.6	NO		bb		0.000
19	FUNCTION3 PFK	34.99	1.092e4					1.2	NO		bb		0.000
20	FUNCTION3 PFK	34.92	1.232e4					0.9	NO		bb		0.000
21	FUNCTION3 PFK	34.88	2.639e3					0.5	NO		bb		0.000
22	FUNCTION3 PFK	34.68	4.893e4					1.8	NO		db		0.000
23	FUNCTION3 PFK	34.59	2.425e4					1.4	NO		dd		0.000
24	FUNCTION3 PFK	37.69	2.684e3					0.5	NO		bb		0.000
25	FUNCTION3 PFK	37.62	1.609e4					1.0	NO		bb		0.000
26	FUNCTION3 PFK	37.22	2.205e4					1.8	NO		db		0.000
27	FUNCTION3 PFK	37.18	1.187e4					1.1	NO		bd		0.000
28	FUNCTION3 PFK	37.13	1.487e4					1.0	NO		bb		0.000
29	FUNCTION3 PFK	36.93	2.527e4					1.7	NO		db		0.000
30	FUNCTION3 PFK	36.90	1.573e4					1.6	NO		bd		0.000
31	FUNCTION3 PFK	36.80	1.747e4					1.5	NO		bb		0.000
32	FUNCTION3 PFK	36.59	8.598e3					0.8	NO		bb		0.000
33	FUNCTION3 PFK	36.53	2.627e4					1.5	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.87	6.676e3					0.7	NO		bb		
2	FUNCTION4 PFK	38.67	2.644e4					1.3	NO		bb		
3	FUNCTION4 PFK	38.37	4.201e3					0.8	NO		bb		
4	FUNCTION4 PFK	38.33	4.320e3					1.1	NO		bb		
5	FUNCTION4 PFK	38.27	8.904e3					1.3	NO		bb		
6	FUNCTION4 PFK	41.72	5.248e3					0.8	NO		bb		
7	FUNCTION4 PFK	41.62	1.150e4					0.7	NO		bb		
8	FUNCTION4 PFK	41.58	4.940e3					0.7	NO		bb		
9	FUNCTION4 PFK	40.78	1.606e4					1.3	NO		bb		
10	FUNCTION4 PFK	40.57	2.164e4					1.2	NO		bb		
11	FUNCTION4 PFK	40.43	5.990e3					0.9	NO		bb		
12	FUNCTION4 PFK	40.39	5.269e3					0.7	NO		bb		
13	FUNCTION4 PFK	40.30	1.198e4					1.0	NO		bb		
14	FUNCTION4 PFK	40.25	2.298e3					0.6	NO		bb		
15	FUNCTION4 PFK	40.21	2.654e3					0.7	NO		bb		
16	FUNCTION4 PFK	39.67	1.757e4					1.6	NO		bb		
17	FUNCTION4 PFK	39.45	1.228e4					1.2	NO		db		
18	FUNCTION4 PFK	39.41	1.005e4					1.1	NO		bd		
19	FUNCTION4 PFK	39.32	1.158e4					1.0	NO		bb		
20	FUNCTION4 PFK	39.22	6.011e3					0.9	NO		bb		
21	FUNCTION4 PFK	39.06	1.355e4					1.1	NO		bb		
22	FUNCTION4 PFK	41.99	8.820e3					1.1	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:21 Pacific Standard Time

**ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk****ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.94	1.214e2					1.7	NO		bb		0.000
2	FUNCTION1 HXCD...	27.56	8.086e1					1.4	NO		bb		0.000
3	FUNCTION1 HXCD...	27.44	7.625e1					1.4	NO		db		0.000
4	FUNCTION1 HXCD...	27.35	7.050e1					1.1	NO		bd		0.000
5	FUNCTION1 HXCD...	26.70	7.672e1					1.0	NO		bb		0.000
6	FUNCTION1 HXCD...	26.24	2.642e2					3.0	YES		bb		0.000
7	FUNCTION1 HXCD...	25.19	1.436e2					1.6	NO		bb		0.000
8	FUNCTION1 HXCD...	24.99	1.199e2					2.0	NO		db		0.000
9	FUNCTION1 HXCD...	24.88	1.012e2					1.6	NO		bd		0.000
10	FUNCTION1 HXCD...	23.90	1.897e2					2.1	NO		bb		0.000
11	FUNCTION1 HXCD...	22.40	1.526e2					2.1	NO		bb		0.000
12	FUNCTION1 HXCD...	22.21	7.685e1					1.6	NO		bb		0.000
13	FUNCTION1 HXCD...	21.83	9.176e1					2.0	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.97	1.139e2					2.0	NO		bb		0.000
2	FUNCTION1 HPCD...	26.05	1.249e2					2.9	NO		bb		0.000
3	FUNCTION1 HPCD...	25.72	7.993e1					1.5	NO		bb		0.000
4	FUNCTION1 HPCD...	22.66	1.783e2					2.0	NO		bb		0.000
5	FUNCTION1 HPCD...	22.25	8.124e1					1.9	NO		bb		0.000
6	FUNCTION1 HPCD...	21.66	1.444e2					2.1	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.38	7.551e1					2.1	NO		bb		0.000
2	FUNCTION2 HPCD...	32.25	9.190e1					2.5	NO		bb		0.000
3	FUNCTION2 HPCD...	30.91	7.294e1					2.7	NO		bb		0.000
4	FUNCTION2 HPCD...	30.22	1.402e2					1.9	NO		bb		0.000
5	FUNCTION2 HPCD...	29.29	1.281e2					2.1	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:21 Pacific Standard Time

ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	34.54	7.205e1					2.3	NO		bb		0.000
2	FUNCTION3 OCDPE	33.31	9.038e1					2.8	NO		bb		0.000
3	FUNCTION3 OCDPE	36.58	2.191e2					4.3	YES		bb		0.000
4	FUNCTION3 OCDPE	36.21	9.383e1					2.7	NO		bb		0.000
5	FUNCTION3 OCDPE	36.08	1.665e2					3.1	YES		bb		0.000
6	FUNCTION3 OCDPE	34.85	8.473e1					3.0	YES		bb		0.000
7	FUNCTION3 OCDPE	34.74	1.073e2					2.0	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.65	8.757e1					2.4	NO		bb		0.000
2	FUNCTION4 NCDPE	40.81	7.399e1					1.3	NO		bb		0.000
3	FUNCTION4 NCDPE	40.70	1.740e2					3.0	YES		bb		0.000
4	FUNCTION4 NCDPE	39.87	8.841e1					2.4	NO		bb		0.000
5	FUNCTION4 NCDPE	38.50	4.518e2					7.2	YES		bb		0.000
6	FUNCTION4 NCDPE	38.23	7.948e1					2.2	NO		bb		0.000
7	FUNCTION4 NCDPE	38.10	2.839e2					3.2	YES		bb		0.000

**ETHERS6**

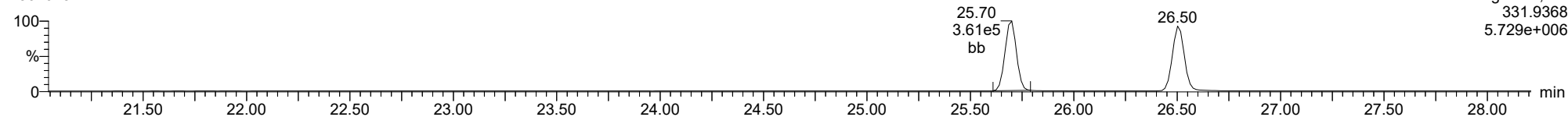
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.87	7.533e1					2.6	NO		bb		0.000
2	FUNCTION5 DCDPE	44.47	7.849e1					2.1	NO		bb		0.000
3	FUNCTION5 DCDPE	46.39	9.447e1					1.9	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

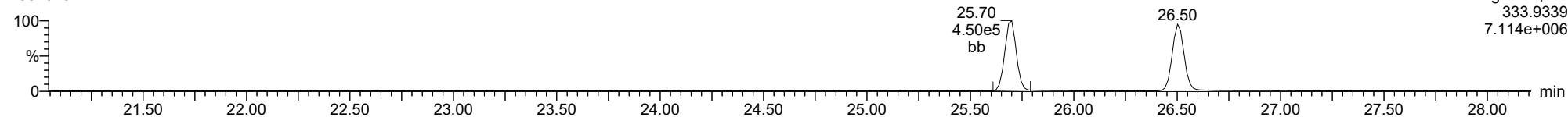
**13C-1234-TCDD**

23020131



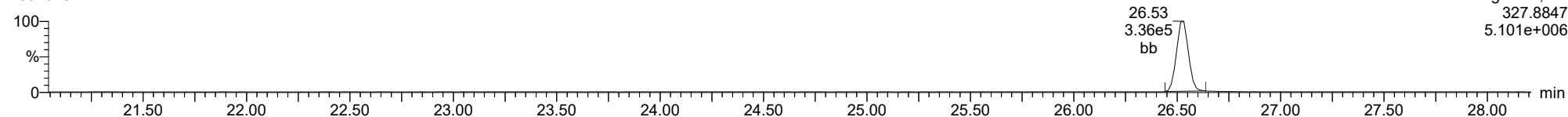
**13C-1234-TCDD**

23020131



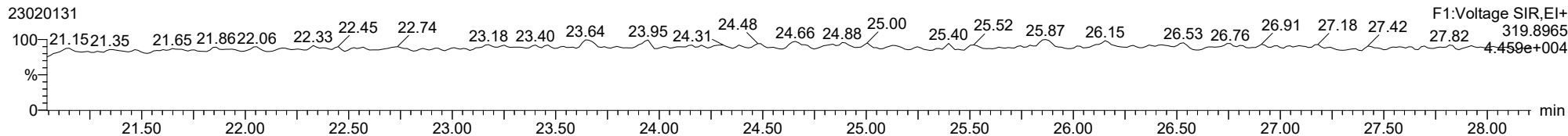
**37CL-2378-TCDD**

23020131

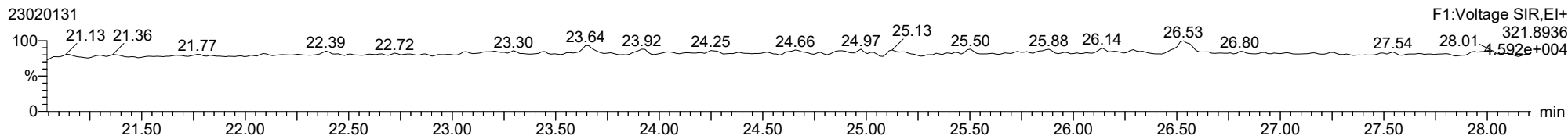


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

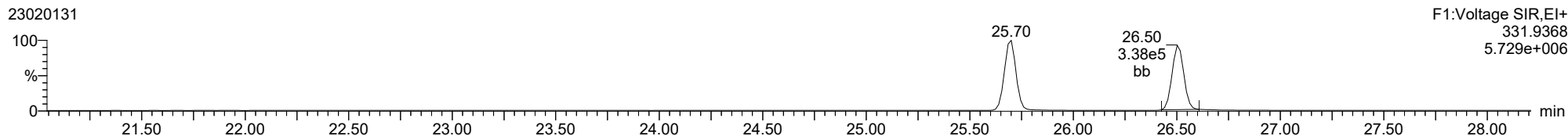
**2378-TCDD**



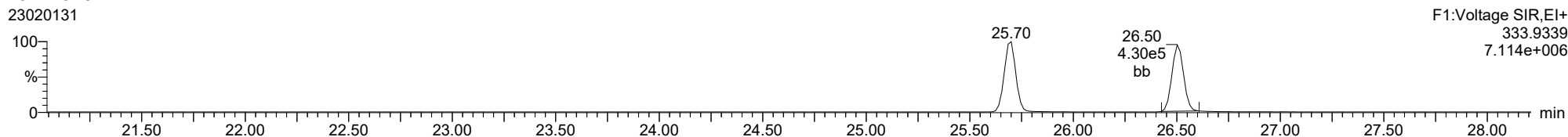
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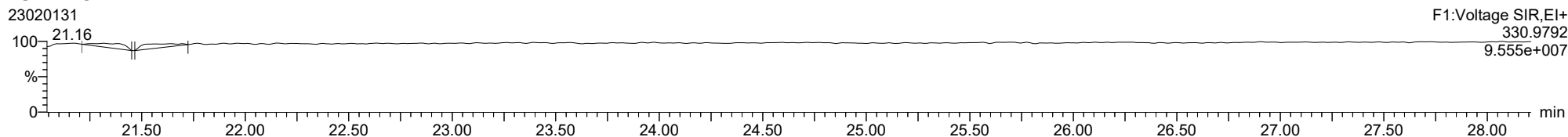
**13C-2378-TCDD**



**13C-2378-TCDD**

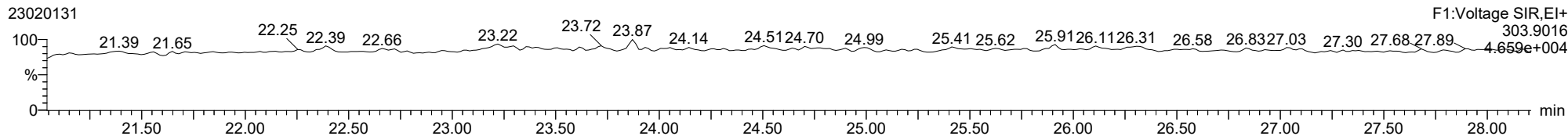


**FUNCTION1 PFK**

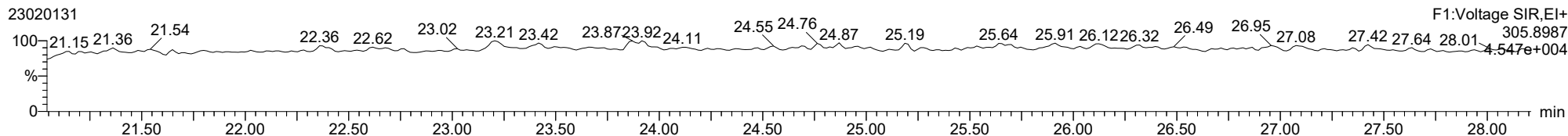


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

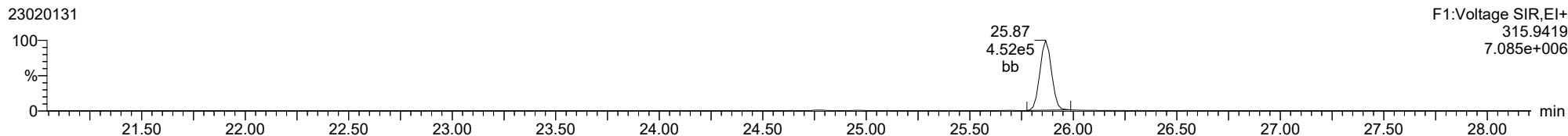
**2378-TCDF**



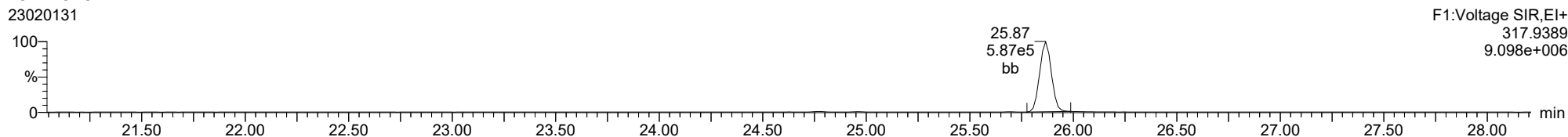
**2378-TCDF**



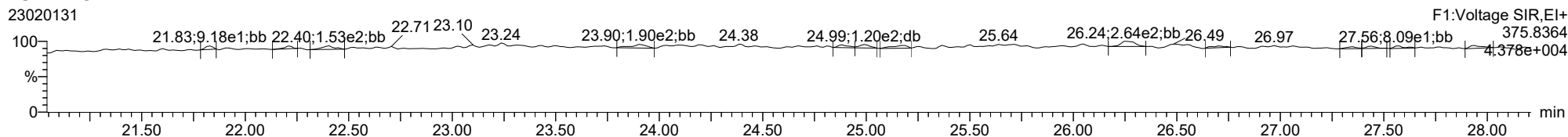
**13C-2378-TCDF**



**13C-2378-TCDF**



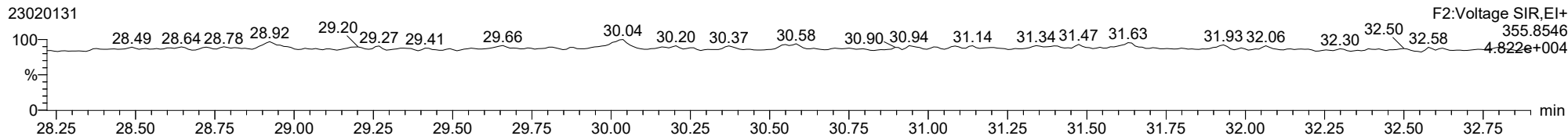
**FUNCTION1 HXCDPE**



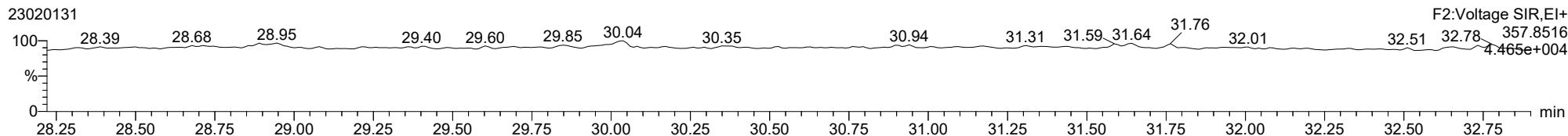


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

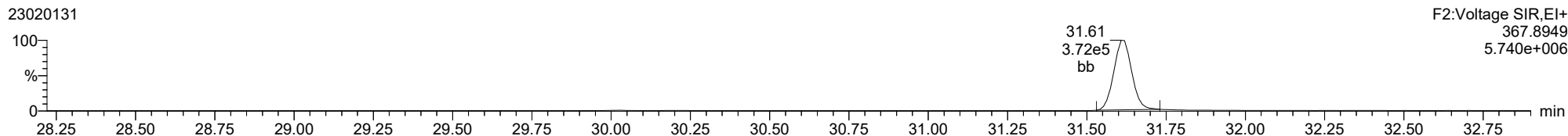
**12378-PeCDD**



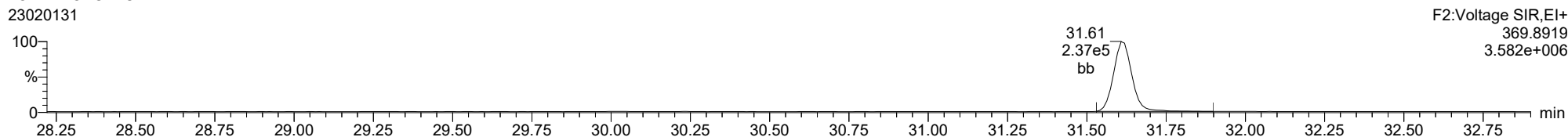
**12378-PeCDD**



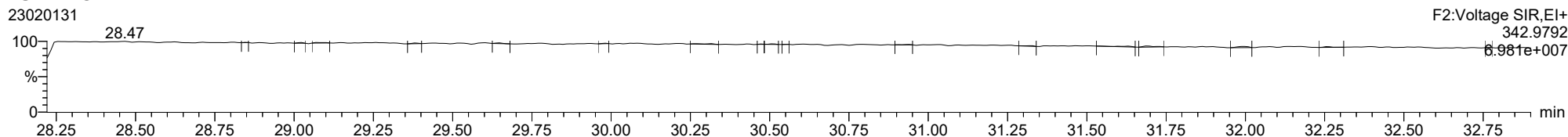
**13C-12378-PeCDD**



**13C-12378-PeCDD**

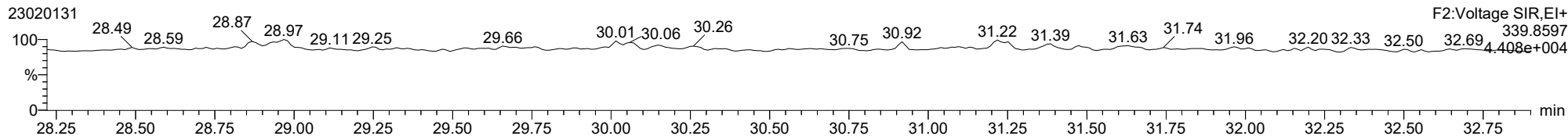


**FUNCTION2 PFK**

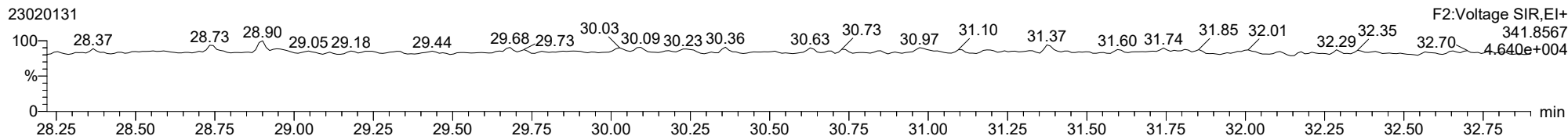


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

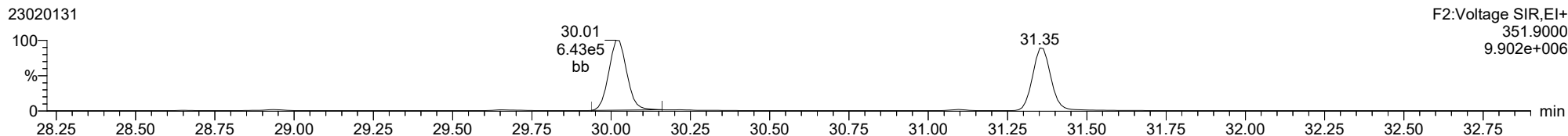
12378-PeCDF



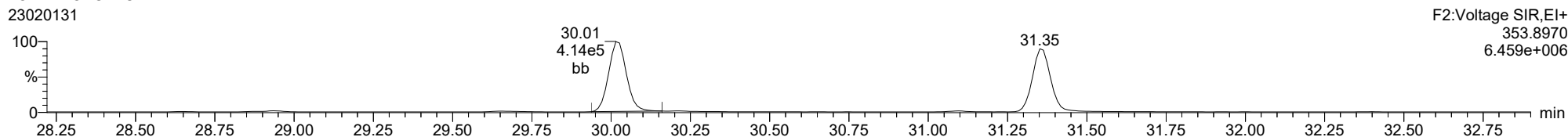
12378-PeCDF



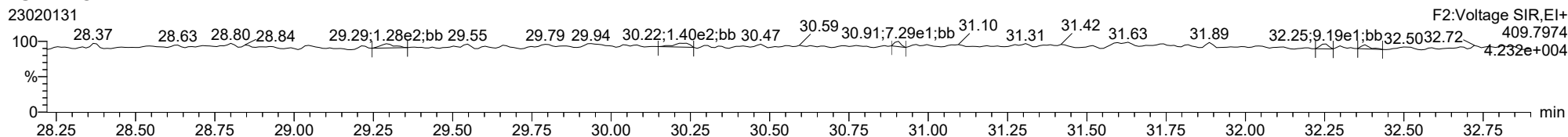
13C-12378-PeCDF



13C-12378-PeCDF

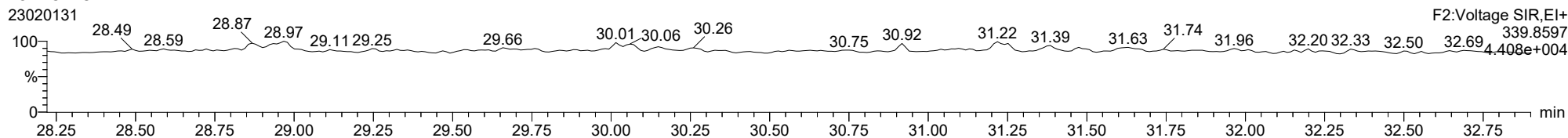


FUNCTION2 HPCDPE

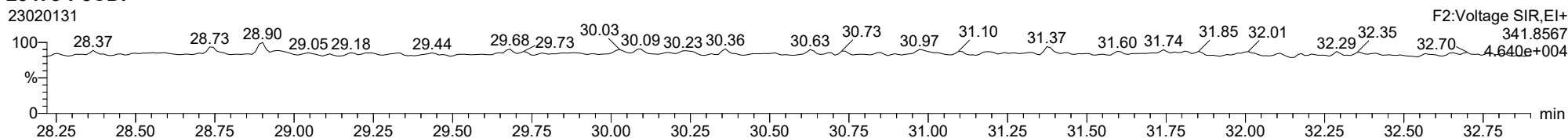


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

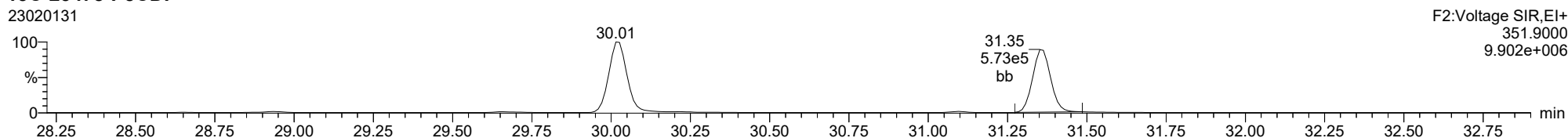
**23478-PeCDF**



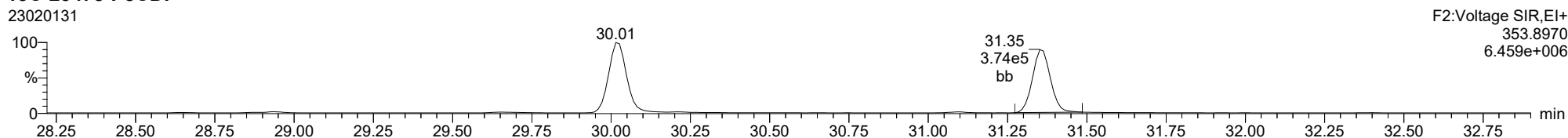
**23478-PeCDF**



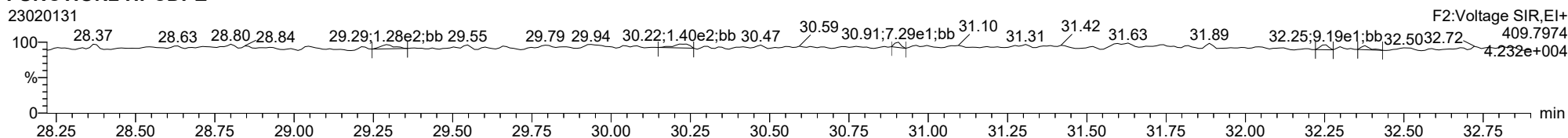
**13C-23478-PeCDF**



**13C-23478-PeCDF**

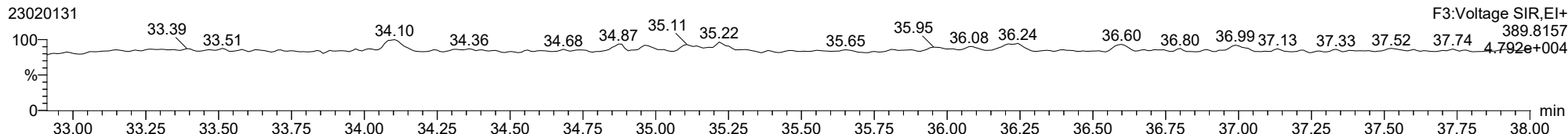


**FUNCTION2 HPCDPE**

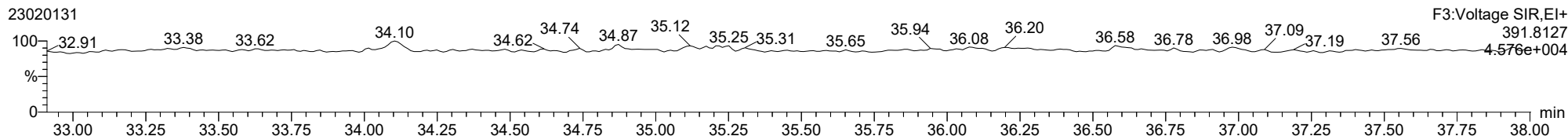


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

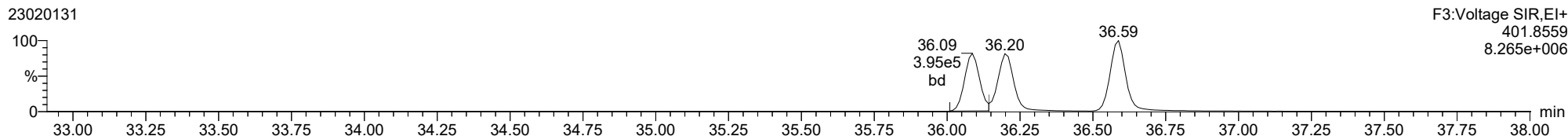
123478-HxCDD



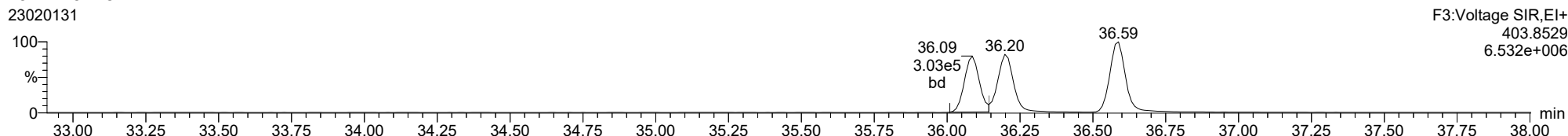
123478-HxCDD



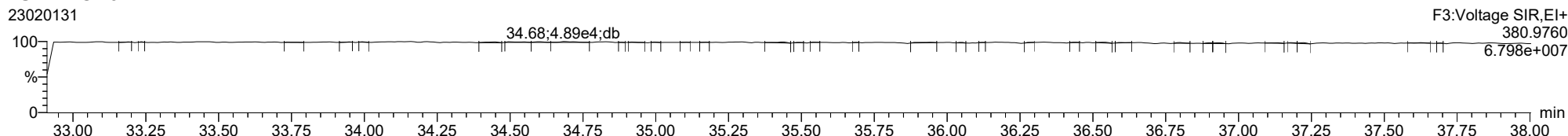
13C-123478-HxCDD



13C-123478-HxCDD

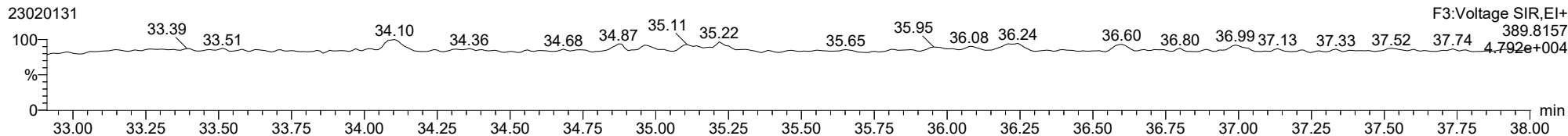


FUNCTION3 PFK

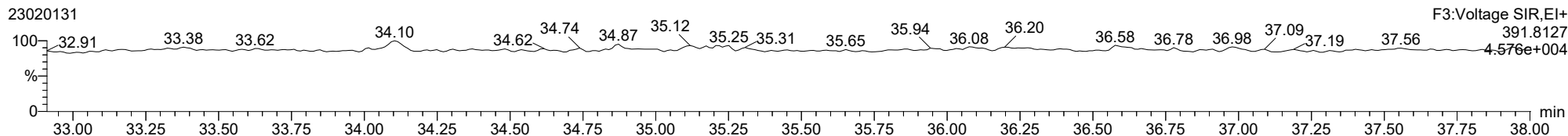


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

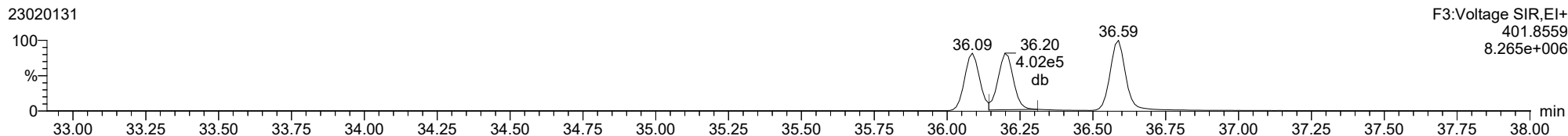
123678-HxCDD



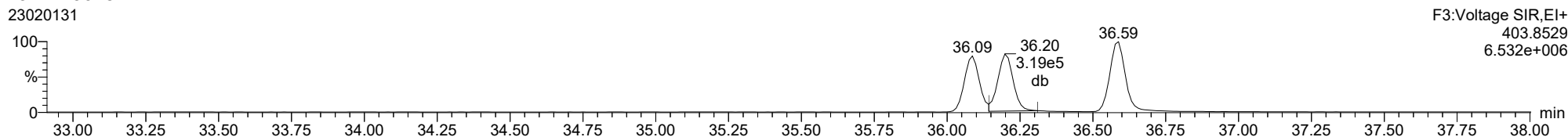
123678-HxCDD



13C-123678-HxCDD

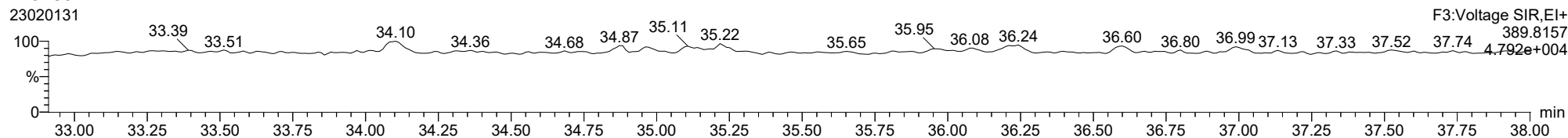


13C-123678-HxCDD

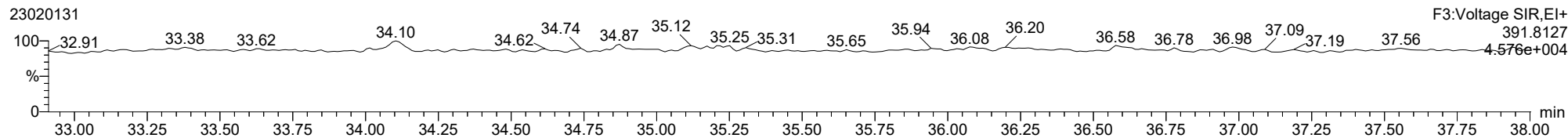


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

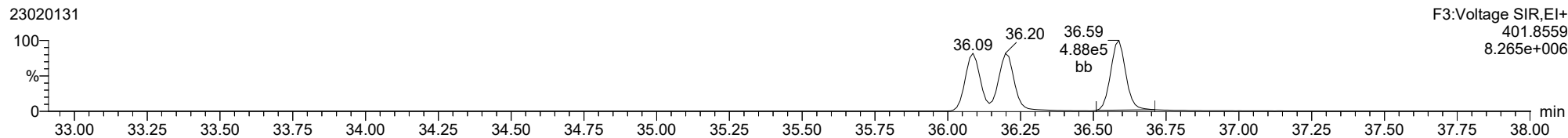
**123789-HxCDD**



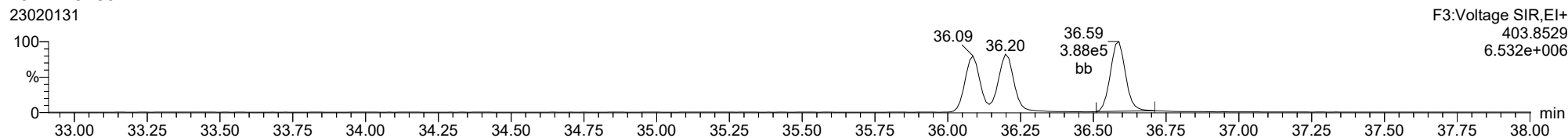
**123789-HxCDD**



**13C-123789-HxCDD**

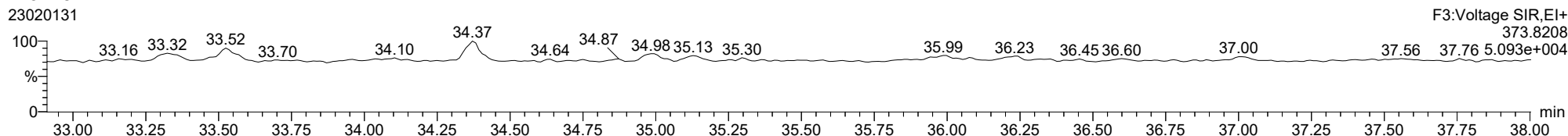


**13C-123789-HxCDD**

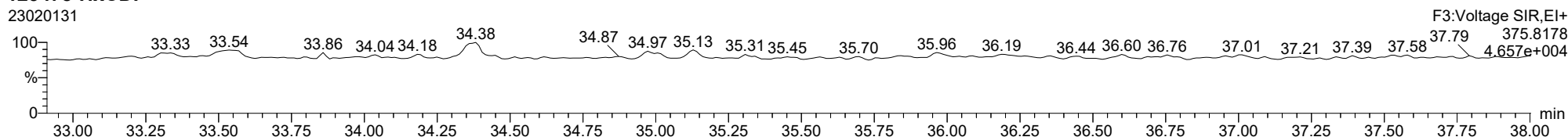


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

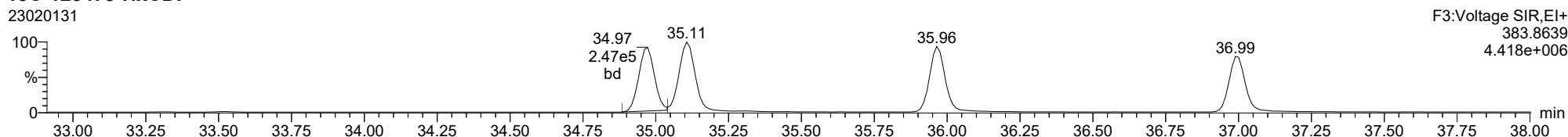
123478-HxCDF



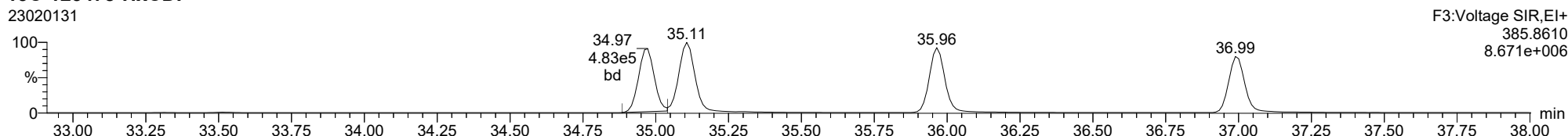
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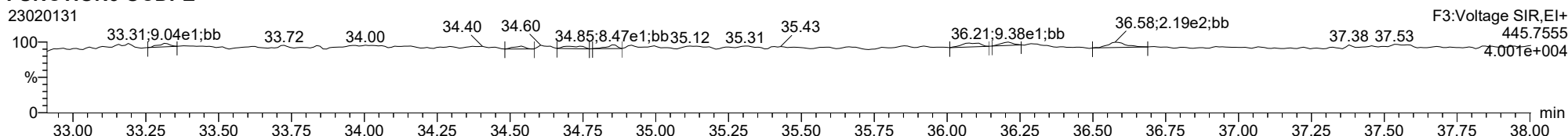
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13C-123478-HxCDF



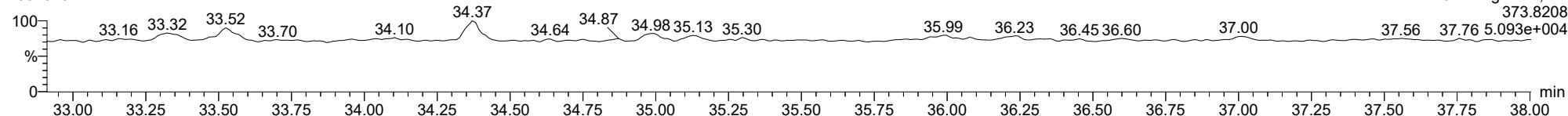
FUNCTION3 OCDPE



ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

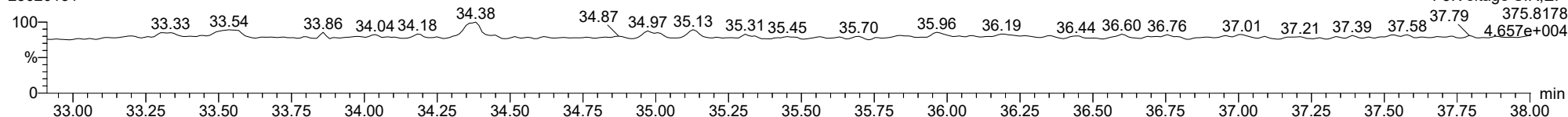
**234678-HxCDF**

23020131



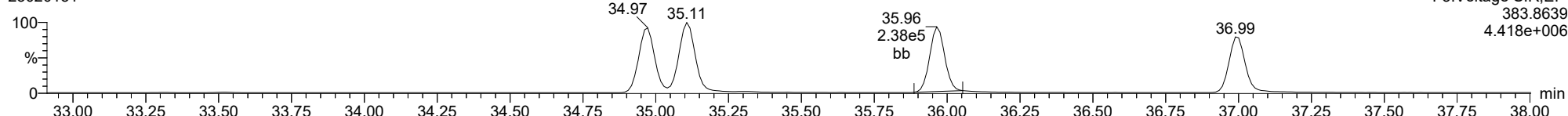
**234678-HxCDF**

23020131



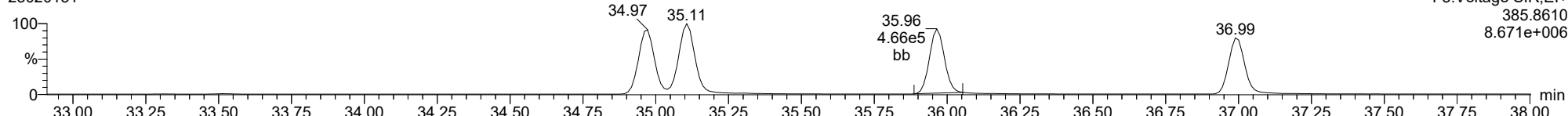
**13C-234678-HxCDF**

23020131



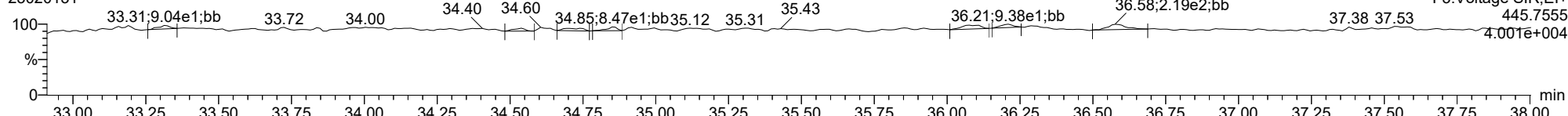
**13C-234678-HxCDF**

23020131



**FUNCTION3 OCDPE**

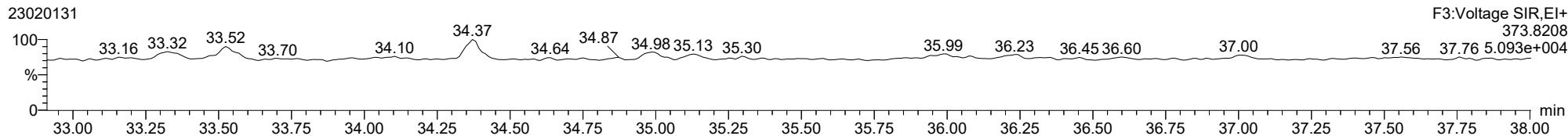
23020131



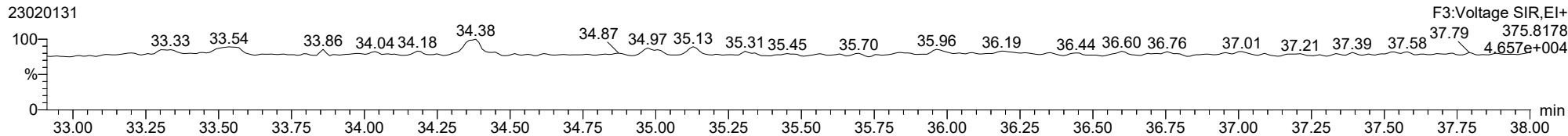


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

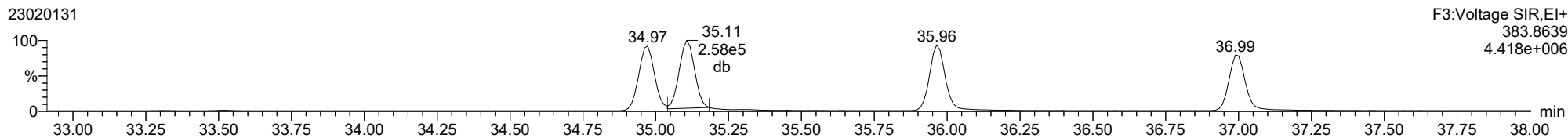
**123678-HxCDF**



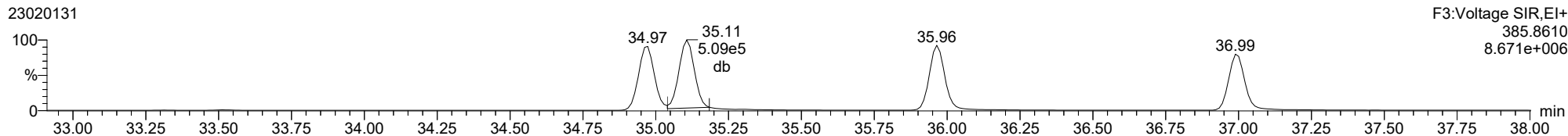
**123678-HxCDF**



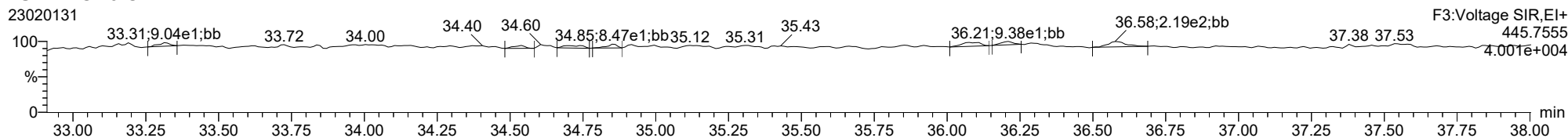
**13C-123678-HxCDF**



**13C-123678-HxCDF**

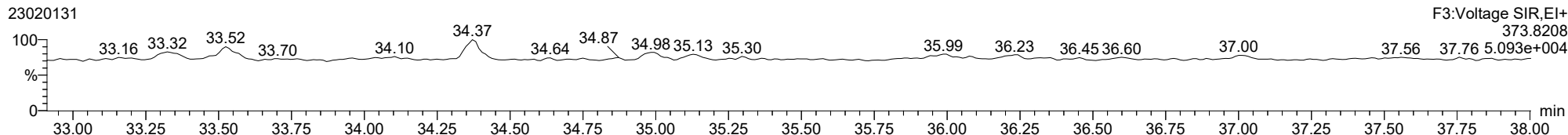


**FUNCTION3 OCDPE**

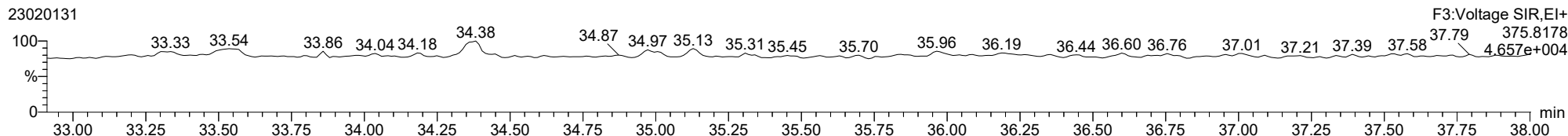


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

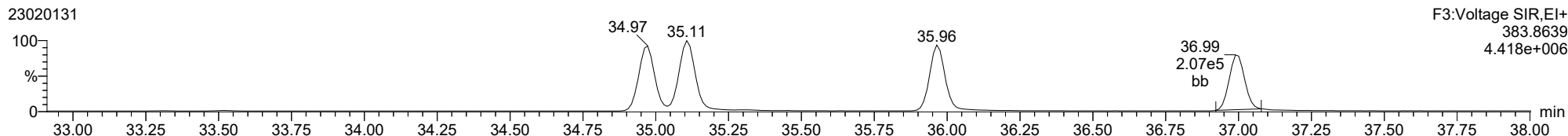
**123789-HxCDF**



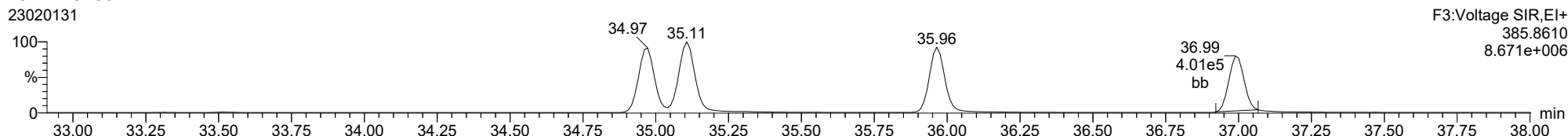
**123789-HxCDF**



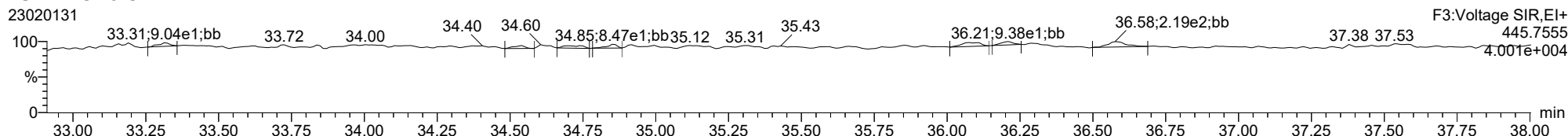
**13C-123789-HxCDF**



**13C-123789-HxCDF**



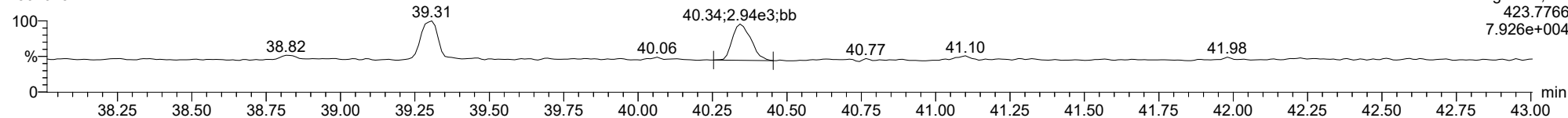
**FUNCTION3 OCDPE**



ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

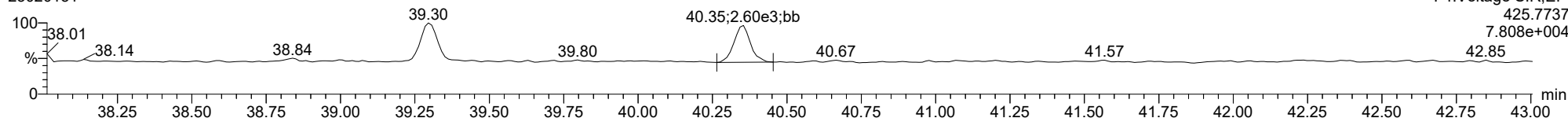
1234678-HpCDD

23020131



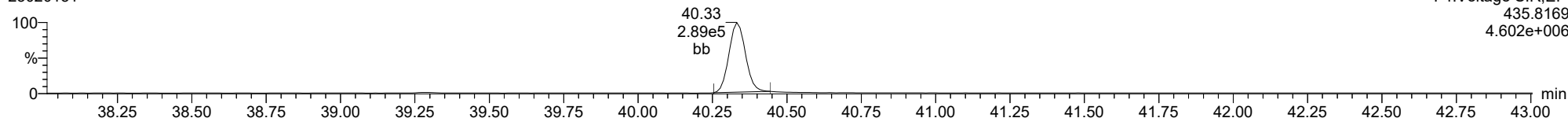
1234678-HpCDD

23020131



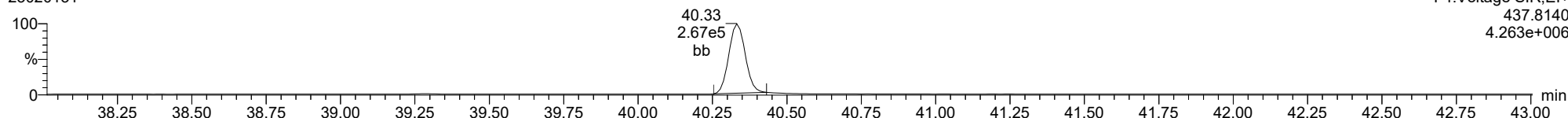
13C-1234678-HpCDD

23020131



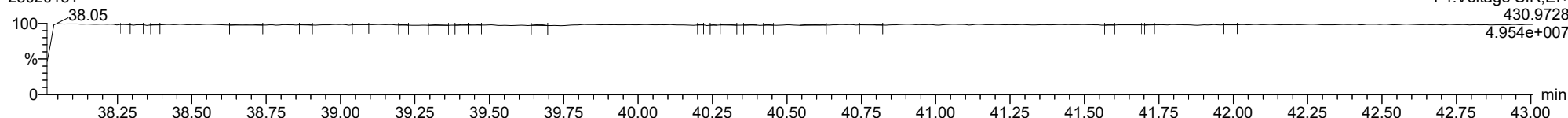
13C-1234678-HpCDD

23020131



FUNCTION4 PFK

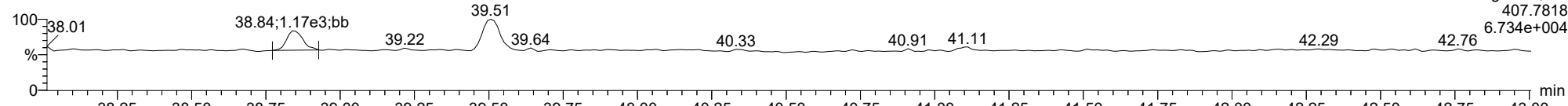
23020131



ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

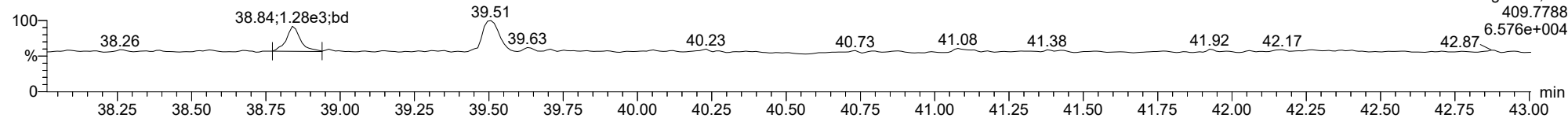
**1234678-HpCDF**

23020131



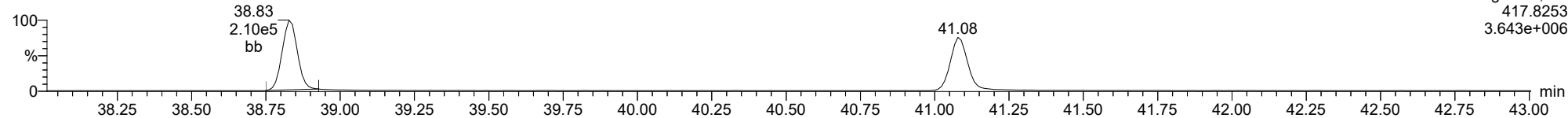
**1234678-HpCDF**

23020131



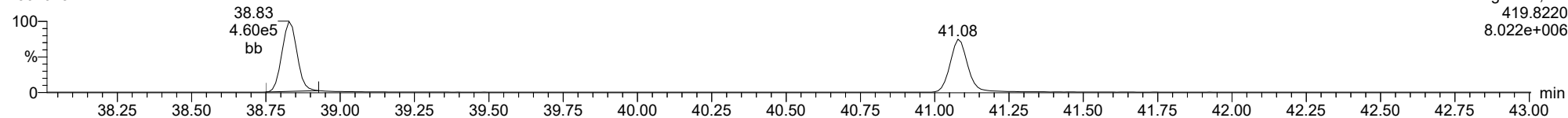
**13C-1234678-HpCDF**

23020131



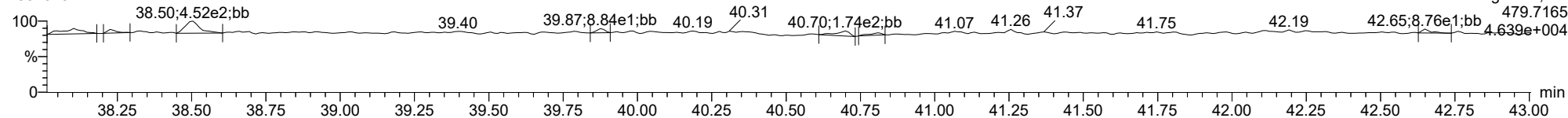
**13C-1234678-HpCDF**

23020131



**FUNCTION4 NCDPE**

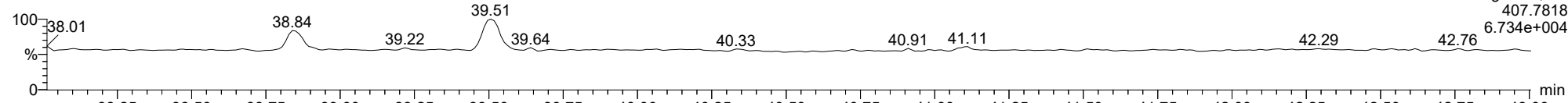
23020131



ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

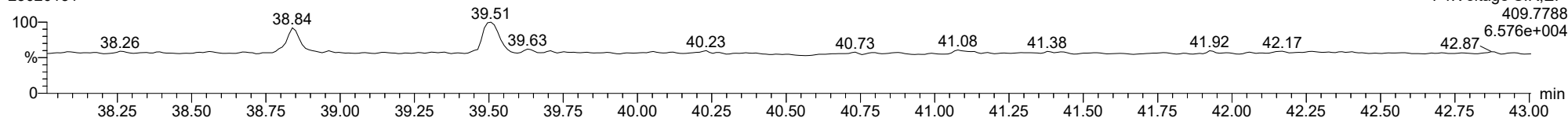
**1234789-HpCDF**

23020131



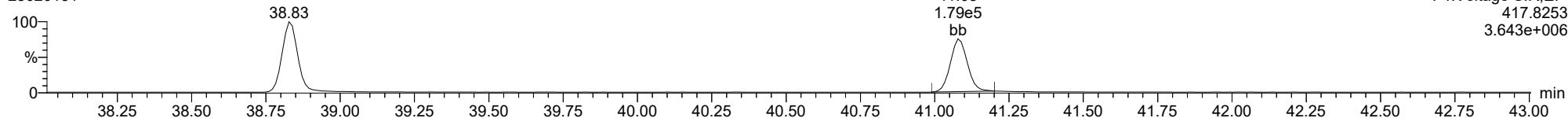
**1234789-HpCDF**

23020131



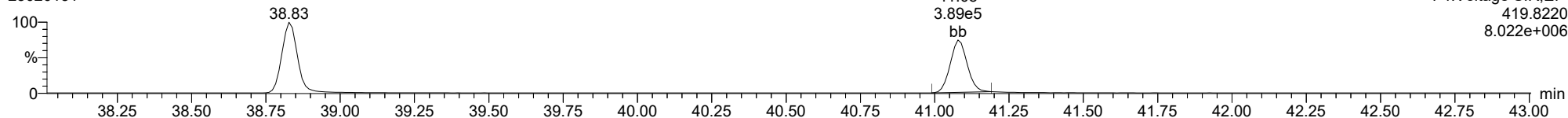
**13C-1234789-HpCDF**

23020131



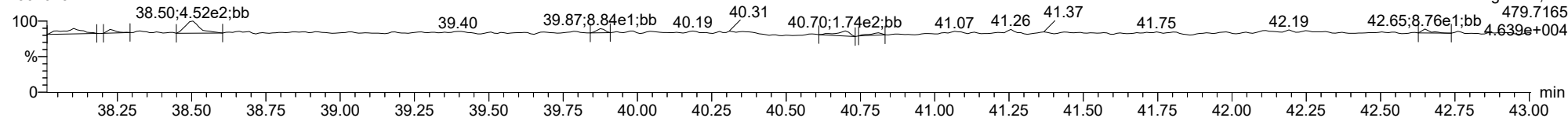
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23020131



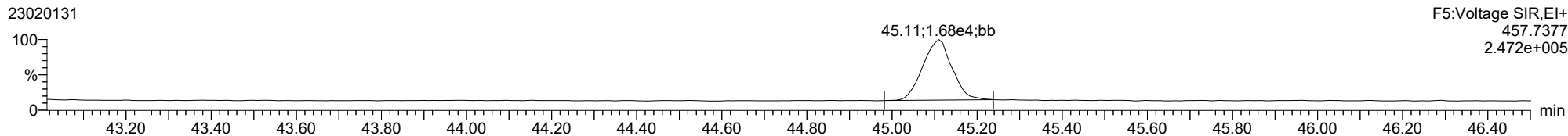
**FUNCTION4 NCDPE**

23020131

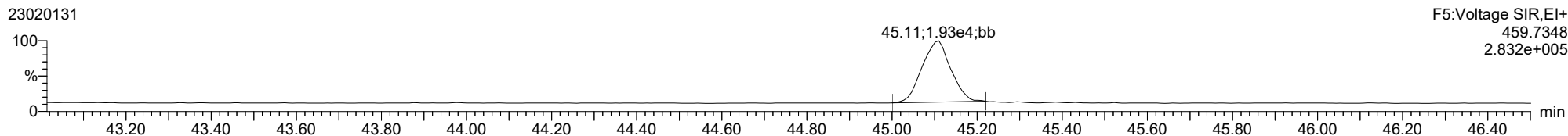


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

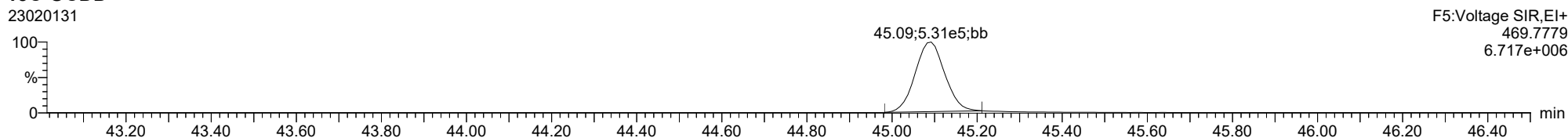
**OCDD**



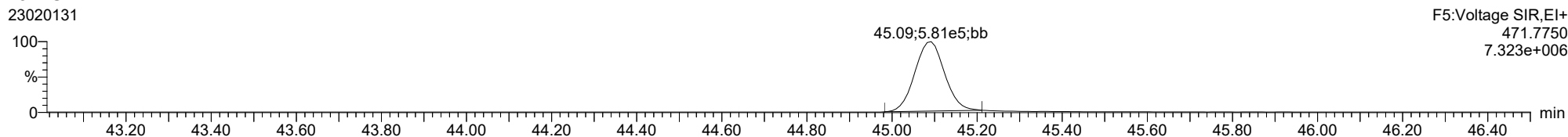
**OCDD**



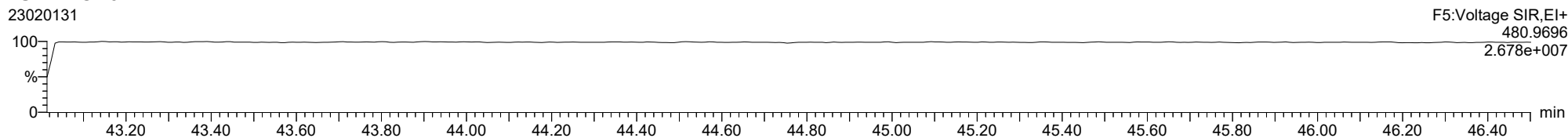
**13C-OCDD**



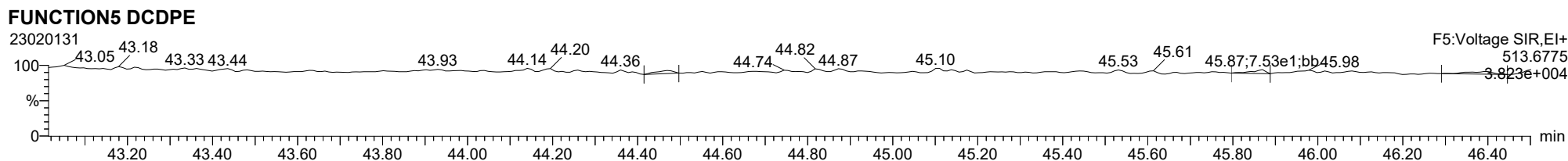
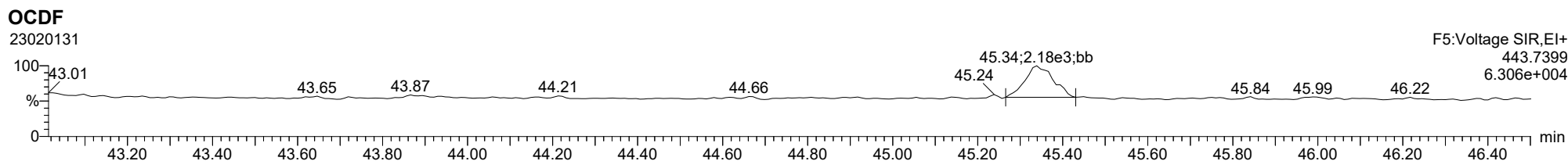
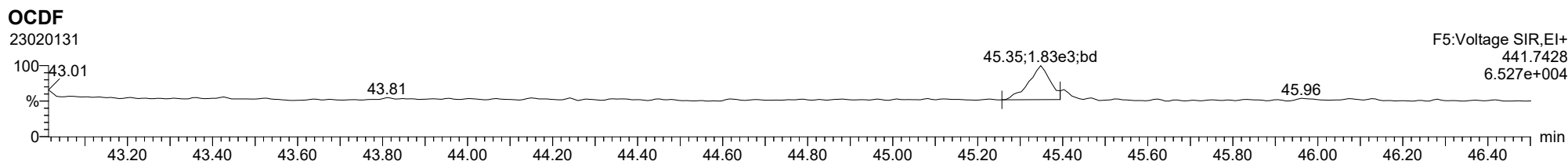
**13C-OCDD**



**FUNCTION5 PFK**

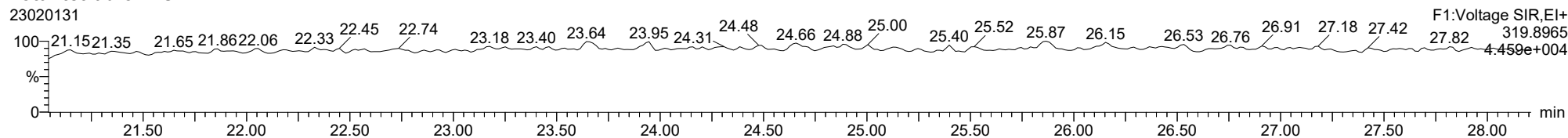


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

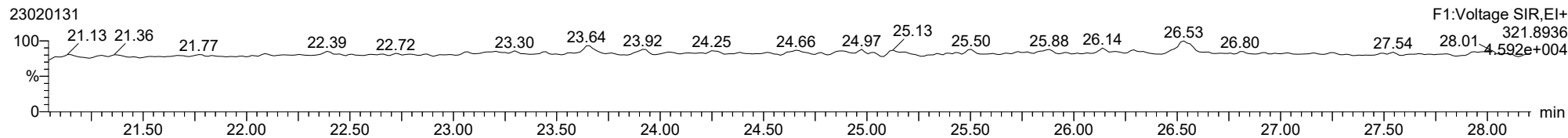


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

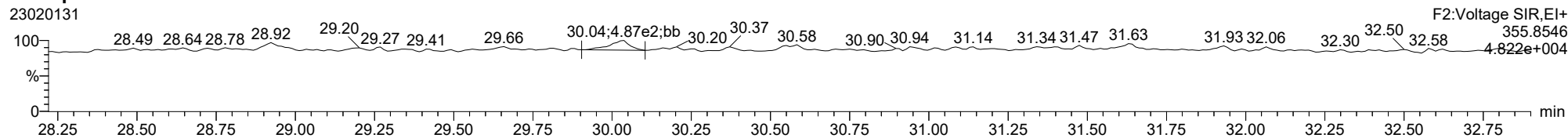
**Total-tetradoxins**



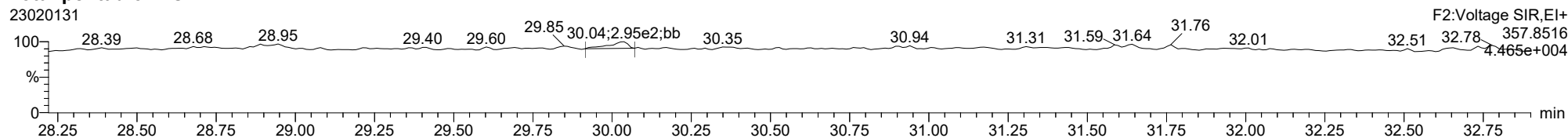
**Total-tetradoxins**



**Total-pentadoxins**



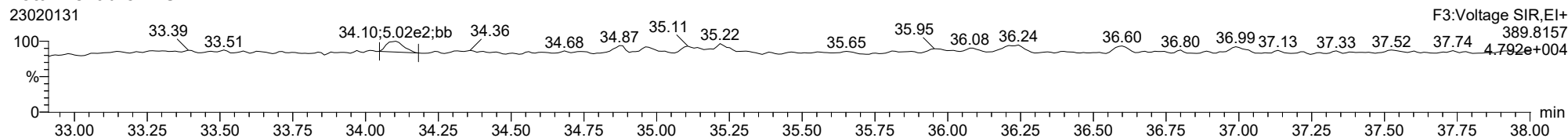
**Total-pentadoxins**



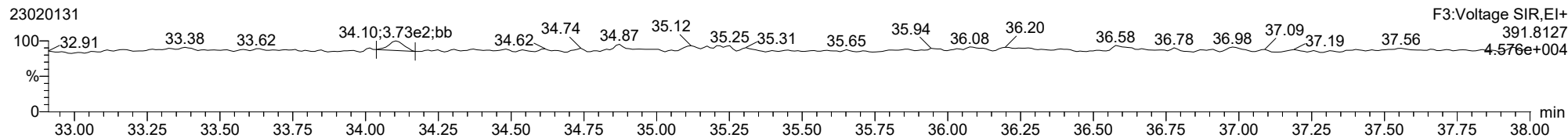


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

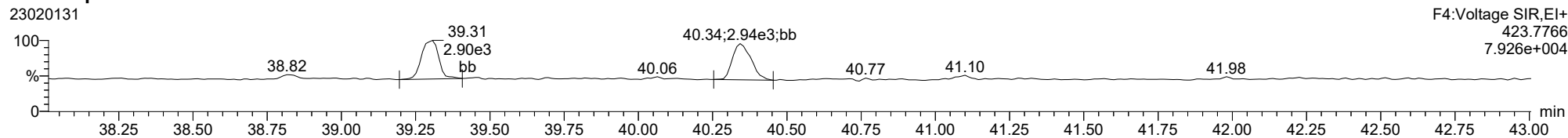
### Total-hexadioxins



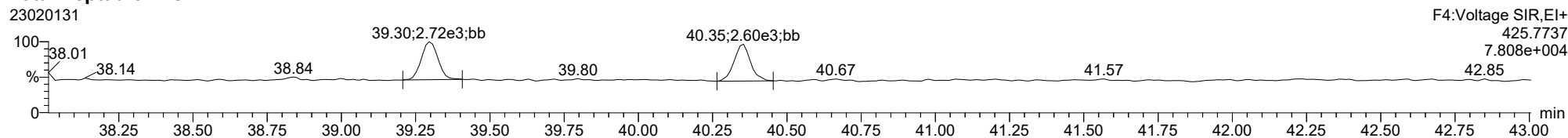
### Total-hexadioxins



### Total-heptadioxins

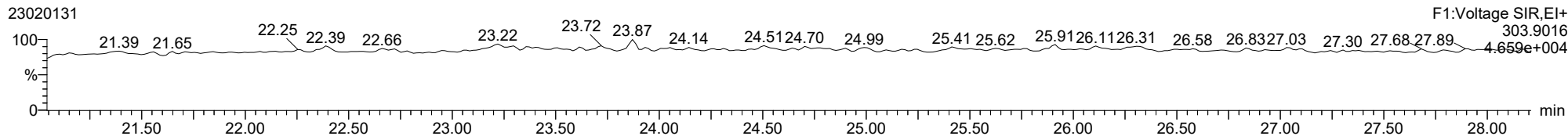


### Total-heptadioxins

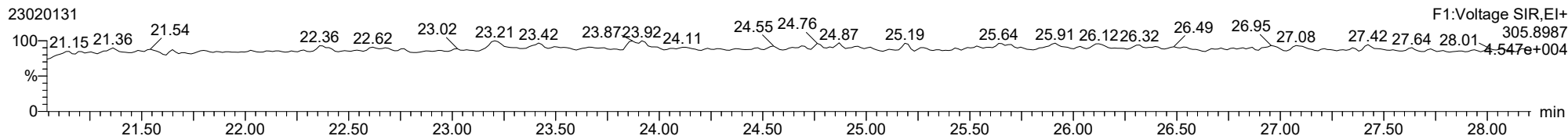


ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

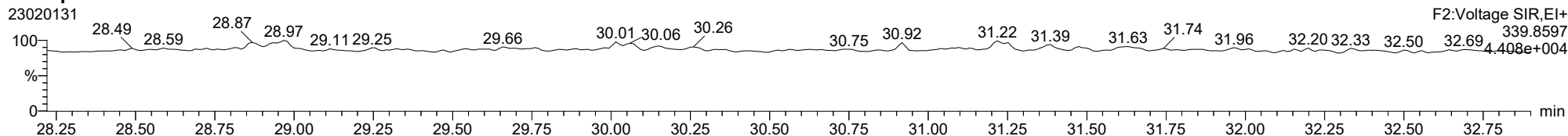
**Total-tetrafurans**



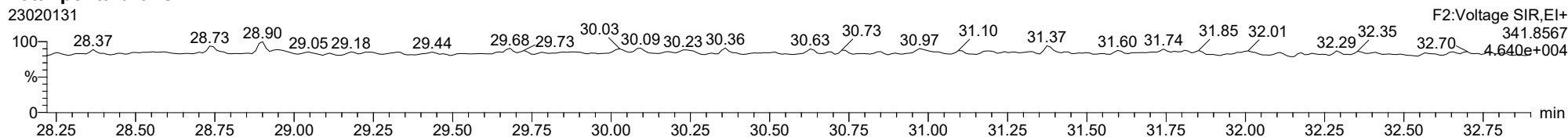
**Total-tetrafurans**



**Total-pentafurans**



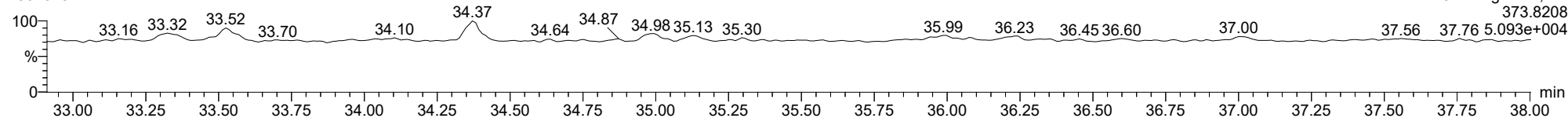
**Total-pentafurans**



ID: 22L0246-46, Name: 23020131, Date: 02-Feb-2023, Time: 13:55:19, Conditions: AUTOSPEC01, User: pk

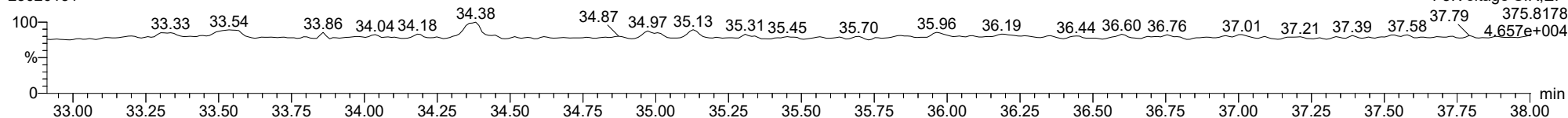
**Total-hexafurans**

23020131



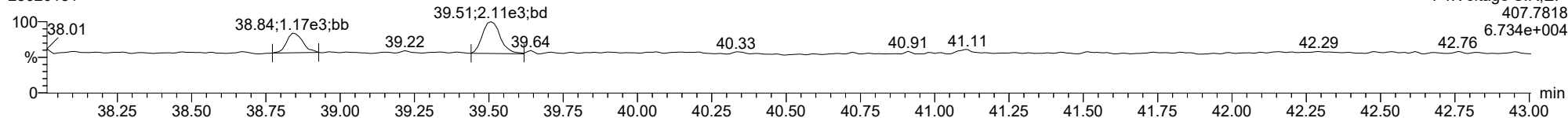
**Total-hexafurans**

23020131



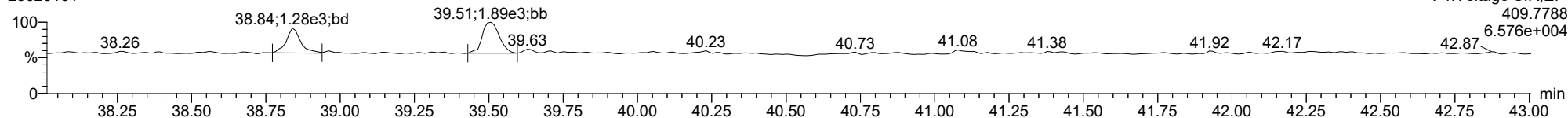
**Total-heptafurans**

23020131



**Total-heptafurans**

23020131





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-47 A File ID: 23020132  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 14:44  
 % Solids: 75.19 Preparation: EPA 1613 Initial/Final: 13.33 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.679	0.655-0.886	0.082	0.998	1.28	ng/kg	
1746-01-6	2,3,7,8-TCDD	1	0.553	0.655-0.886	0.076	0.998	0.337	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.618	1.318-1.783	0.107	0.998	0.830	ng/kg	J
57117-31-4	2,3,4,7,8-PeCDF	1	1.359	1.318-1.783	0.104	0.998	0.695	ng/kg	J
40321-76-4	1,2,3,7,8-PeCDD	1	1.696	1.318-1.783	0.086	0.998	0.606	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.287	1.054-1.426	0.045	0.998	0.338	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.102	1.054-1.426	0.041	0.998	0.352	ng/kg	J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.287	1.054-1.426	0.043	0.998	0.308	ng/kg	J
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.296	1.054-1.426	0.046	0.998	0.170	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.023	1.054-1.426	0.075	0.998	0.300	ng/kg	EMPC, J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.458	1.054-1.426	0.074	0.998	0.337	ng/kg	EMPC, J
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.968	1.054-1.426	0.076	0.998	0.325	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.008	0.893-1.208	0.056	0.998	0.619	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.925	0.893-1.208	0.078	0.998	0.214	ng/kg	J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.055	0.893-1.208	0.078	2.49	1.54	ng/kg	J, B
39001-02-0	OCDF	1	0.849	0.757-1.024	0.104	2.49	1.52	ng/kg	J, B
3268-87-9	OCDD	1	0.894	0.757-1.024	0.112	9.98	7.20	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	24.8	ng/kg
41903-57-5	Total TCDD	1	0.000			0.998	10.3	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.998	9.43	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.998	5.77	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.998	1.17	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.998	4.66	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.998	1.43	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.998	2.90	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 1.54  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 1.54



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-47</u>
Sampled:	<u>12/09/22 11:44</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>75.19</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020132</u>
		Analyzed:	<u>02/02/23 14:44</u>
		Initial/Final:	<u>13.33 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.780	0.655-0.886	0.094	79.0	24 - 169 %	
13C12-2,3,7,8-TCDD		0.784	0.655-0.886	0.119	94.0	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.538	1.318-1.783	0.121	87.1	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.538	1.318-1.783	0.126	85.6	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.618	1.318-1.783	0.114	86.7	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.509	0.434-0.587	0.128	82.9	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.509	0.434-0.587	0.125	83.7	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.509	0.434-0.587	0.133	83.3	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.507	0.434-0.587	0.145	87.8	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.287	1.054-1.426	0.116	88.9	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.266	1.054-1.426	0.112	87.1	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.442	0.374-0.506	0.131	77.3	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.447	0.374-0.506	0.151	75.1	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.093	0.893-1.208	0.137	83.3	23 - 140 %	
13C12-OCDD		0.909	0.757-1.024	0.176	78.0	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.037	91.4	35 - 197 %	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:07:34 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
 Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	3.825e3	5.631e3	0.876	0.679	0.770	959	2195	5.55e4	8.50e4	57.9	38.7	NO	bd	bd	0.639
12378-PeCDF	30.037	1.001	3.492e3	2.159e3	0.845	1.618	1.550	1956	1827	5.33e4	3.36e4	27.2	18.4	NO	bd	bb	0.416
23478-PeCDF	31.374	1.001	2.776e3	2.042e3	0.911	1.359	1.550	1956	1827	3.98e4	2.99e4	20.4	16.4	NO	bb	bb	0.349
123478-HxCDF	34.984	1.001	1.285e3	9.983e2	1.182	1.287	1.240	827	827	2.12e4	1.52e4	25.7	18.4	NO	dd	bd	0.169
234678-HxCDF	35.976	1.000	1.179e3	9.162e2	1.229	1.287	1.240	827	827	2.03e4	1.23e4	24.5	14.8	NO	bb	bd	0.154
123678-HxCDF	35.106	1.000	1.364e3	1.237e3	1.248	1.102	1.240	827	827	2.12e4	1.88e4	25.7	22.8	NO	db	db	0.176
123789-HxCDF	37.001	1.000	6.086e2	4.694e2	1.187	1.296	1.240	827	827	1.08e4	8.46e3	13.0	10.2	NO	bb	bb	0.085
1234678-HpCDF	38.839	1.000	1.960e3	1.945e3	1.204	1.008	1.050	1193	850	3.38e4	3.35e4	28.3	39.4	NO	bb	bb	0.310
1234789-HpCDF	41.089	1.000	5.342e2	5.772e2	1.165	0.925	1.050	1193	850	1.01e4	8.58e3	8.5	10.1	NO	bb	bb	0.107
OCDF	45.348	1.006	3.327e3	3.918e3	1.186	0.849	0.890	1031	1033	4.89e4	5.51e4	47.4	53.4	NO	bb	bb	0.760
2378-TCDD	26.532	1.001	9.321e2	1.686e3	1.236	0.553	0.770	1988	1081	1.21e4	2.48e4	6.1	22.9	YES	bd	bd	0.169
12378-PeCDD	31.619	1.000	1.989e3	1.173e3	1.087	1.696	1.550	1304	1034	2.85e4	1.67e4	21.9	16.2	NO	bb	bb	0.304
123478-HxCDD	36.098	1.000	8.124e2	7.938e2	0.987	1.023	1.240	1173	1072	1.45e4	1.36e4	12.4	12.7	YES	dd	dd	0.150
123678-HxCDD	36.221	1.001	1.121e3	7.694e2	1.021	1.458	1.240	1173	1072	1.59e4	1.52e4	13.6	14.2	YES	dd	db	0.169
123789-HxCDD	36.599	1.011	8.619e2	8.908e2	0.985	0.968	1.240	1173	1072	1.64e4	1.53e4	14.0	14.3	YES	bd	bb	0.163
1234678-HpCDD	40.343	1.000	4.212e3	3.992e3	1.253	1.055	1.050	1142	1015	6.13e4	6.20e4	53.7	61.1	NO	bb	bb	0.770
OCDD	45.110	1.001	1.509e4	1.688e4	1.103	0.894	0.890	848	1227	1.87e5	2.13e5	220.6	173.3	NO	bb	bb	3.611
13C-2378-TCDF	25.867	1.007	7.402e5	9.488e5	1.768	0.780	0.770	3163	1962	1.16e7	1.47e7	3662.2	7474.7	NO	bb	bb	79.036
13C-12378-PeCDF	30.015	1.169	9.743e5	6.334e5	1.527	1.538	1.550	3159	2538	1.51e7	9.75e6	4785.6	3841.5	NO	bb	bb	87.099
13C-23478-PeCDF	31.352	1.221	9.195e5	5.977e5	1.466	1.538	1.550	3159	2538	1.45e7	9.46e6	4604.3	3727.5	NO	bb	bb	85.607
13C-123478-HxCDF	34.962	0.956	3.851e5	7.570e5	1.054	0.509	0.510	2163	2587	6.32e6	1.24e7	2920.8	4793.1	NO	bd	bd	82.948
13C-123678-HxCDF	35.106	0.960	3.988e5	7.831e5	1.080	0.509	0.510	2163	2587	6.56e6	1.29e7	3031.1	4976.7	NO	db	db	83.749
13C-234678-HxCDF	35.965	0.983	3.726e5	7.318e5	1.014	0.509	0.510	2163	2587	6.29e6	1.23e7	2905.4	4762.0	NO	bb	bb	83.324
13C-123789-HxCDF	36.989	1.011	3.582e5	7.066e5	0.928	0.507	0.510	2163	2587	6.10e6	1.21e7	2820.1	4663.7	NO	bb	bb	87.811
13C-1234678-HpCDF	38.828	1.061	3.208e5	7.252e5	1.036	0.442	0.440	1859	2937	5.55e6	1.23e7	2987.7	4196.7	NO	bb	bb	77.261
13C-1234789-HpCDF	41.078	1.123	2.745e5	6.135e5	0.905	0.447	0.440	1859	2937	4.18e6	9.33e6	2248.7	3177.7	NO	bb	bb	75.096
13C-1234-TCDD	25.685	0.000	5.352e5	6.735e5	1.000	0.795	0.770	2442	1589	8.15e6	1.02e7	3337.7	6435.7	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.032	5.502e5	7.022e5	1.103	0.784	0.770	2442	1589	8.60e6	1.10e7	3522.2	6898.0	NO	bb	bb	93.951
13C-12378-PeCDD	31.608	1.231	5.923e5	3.660e5	0.914	1.618	1.550	1693	1514	9.26e6	5.68e6	5470.9	3751.9	NO	bb	bb	86.732
13C-123478-HxCDD	36.087	0.986	6.096e5	4.738e5	0.933	1.287	1.240	1950	1852	1.02e7	7.91e6	5235.9	4272.8	NO	bd	bd	88.869
13C-123678-HxCDD	36.198	0.989	6.131e5	4.844e5	0.965	1.266	1.240	1950	1852	9.98e6	7.98e6	5116.3	4312.1	NO	db	db	87.069
13C-1234678-HpCDD	40.332	1.102	4.442e5	4.066e5	0.782	1.093	1.050	1987	1792	6.88e6	6.31e6	3460.0	3520.2	NO	bb	bb	83.258
13C-OCDD	45.083	1.232	7.649e5	8.413e5	0.788	0.909	0.890	2655	2243	9.54e6	1.05e7	3593.3	4689.0	NO	bb	bb	155.937
13C-123789-HxCDD	36.588	0.000	7.268e5	5.799e5	1.000	1.253	1.240	1950	1852	1.17e7	9.40e6	6011.9	5075.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	5.453e5		1.233			1399		8.31e6		5942.2			bb		36.577

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
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**ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.374	0.865	5.044e3	7.167e3	1.064	0.704	0.770	959	2195	8.38e4	1.16e5	87.3	52.9	NO	bb	bd	0.679
1289-TCDF	27.364	1.058	4.901e2	6.344e2	0.858	0.773	0.770	959	2195	6.28e3	9.98e3	6.5	4.5	NO	bb	bb	0.078
13468-PECDF	27.243	0.908	2.923e3	1.917e3	1.013	1.525	1.550	871	1494	4.27e4	2.92e4	49.0	19.5	NO	bd	bd	0.297
12389-PECDF	32.410	1.080	4.660e2	4.218e2	0.844	1.105	1.550	1956	1827	8.47e3	6.86e3	4.3	3.8	YES	bb	bb	0.065
123468-HXCDF	33.324	0.953	6.511e2	9.158e2	1.197	0.711	1.240	827	827	1.02e4	1.36e4	12.3	16.4	YES	bb	dd	0.115
1368-TCDD	23.644	0.892	1.194e4	1.477e4	1.084	0.808	0.770	1988	1081	1.98e5	2.33e5	99.5	215.1	NO	bb	bb	1.967
1289-TCDD					0.975		0.770	1988	1081								
12479-PECDD	28.934	0.915	6.920e3	4.665e3	1.837	1.484	1.550	1304	1034	6.48e4	4.98e4	49.7	48.1	NO	bd	bb	0.658
12389-PECDD	32.032	1.013	6.846e2	3.375e2	1.252	2.028	1.550	1304	1034	1.12e4	5.90e3	8.6	5.7	YES	bb	bb	0.085
124679-HXCDD	34.104	0.945	1.476e3	1.246e3	1.033	1.185	1.240	1173	1072	2.64e4	2.15e4	22.5	20.0	NO	bb	bb	0.243
1234679-HPCDD	39.296	0.974	3.902e3	3.586e3	1.286	1.088	1.050	1142	1015	6.65e4	5.79e4	58.2	57.1	NO	bb	bb	0.684
Total-tetrafurans			8.580e4		0.933			959		1.21e6							12.416
Total-penta1			5.671e3					871		8.75e4							0.597
Total-pentafurans			3.375e4		0.866			1956		4.45e5							4.127
Total-hexafurans			4.436e3		1.208			827		7.35e4							0.585
Total-heptafurans			4.199e3		1.185			1193		7.26e4							0.718
Total-Furans			1.372e5		1.067			959		1.94e6							19.203
Total-tetradoxins			3.160e4		1.099			1988		4.80e5							5.186
Total-pentadoxins			2.455e4		1.392			1304		3.33e5							2.892
Total-hexadoxins			1.408e4		1.007			1173		2.18e5							2.337
Total-heptadoxins			8.114e3		1.269			1142		1.28e5							1.454
Total-Dioxins			9.344e4		1.165			1988		1.35e6							15.479
Total-TEQ			2.306e5					1988		3.28e6							34.683
FUNCTION1 PFK			5.007e5					1019560		1.54e7							
FUNCTION2 PFK			1.060e6					617566		4.02e6							0.000
FUNCTION3 PFK			0.000e0					505609		0.00e0							
FUNCTION4 PFK			2.212e5					337356		7.23e6							
FUNCTION5 PFK			1.308e5					202189		4.12e6							
FUNCTION1 HXCD...			2.671e3					1079		4.48e4							0.000
FUNCTION1 HPCD...			8.015e2					1075		1.45e4							0.000
FUNCTION2 HPCD...			1.229e3					1068		2.84e4							0.000
FUNCTION3 OCDPE			1.133e3					848		2.03e4							0.000
FUNCTION4 NCDPE			3.627e3					1066		6.45e4							0.000
FUNCTION5 DCDPE			4.562e2					805		1.30e4							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:34 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201CIH.cdb 03 Feb 2023 10:33:40****ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	8.819e3	1.146e4	0.933	0.77	0.77	113.3	YES	NO	dd	dd	1.287
2	Total-tetrafurans	24.38	5.321e2	7.829e2	0.933	0.68	0.77	10.9	YES	NO	bd	bd	0.083
3	Total-tetrafurans	24.11	5.498e3	7.299e3	0.933	0.75	0.77	92.4	YES	NO	db	db	0.812
4	Total-tetrafurans	23.87	5.232e3	6.223e3	0.933	0.84	0.77	81.5	YES	NO	dd	dd	0.727
5	Total-tetrafurans	23.72	5.069e3	6.697e3	0.933	0.76	0.77	88.3	YES	NO	dd	dd	0.747
6	Total-tetrafurans	23.63	2.749e3	3.350e3	0.933	0.82	0.77	46.9	YES	NO	dd	dd	0.387
7	Total-tetrafurans	23.40	1.392e4	1.611e4	0.933	0.86	0.77	138.8	YES	NO	dd	dd	1.906
8	Total-tetrafurans	22.63	2.793e3	3.884e3	0.933	0.72	0.77	47.4	YES	NO	bb	bb	0.424
9	1368-TCDF	22.37	5.044e3	7.167e3	1.064	0.70	0.77	87.3	YES	NO	bb	bd	0.679
10	1289-TCDF	27.36	4.901e2	6.344e2	0.858	0.77	0.77	6.5	YES	NO	bb	bb	0.078
11	Total-tetrafurans	26.11	6.086e3	8.044e3	0.933	0.76	0.77	89.4	YES	NO	db	db	0.897
12	2378-TCDF	25.88	3.825e3	5.631e3	0.876	0.68	0.77	57.9	YES	NO	bd	bd	0.639
13	Total-tetrafurans	25.38	2.846e3	3.541e3	0.933	0.80	0.77	46.3	YES	NO	dd	bd	0.405
14	Total-tetrafurans	25.20	3.721e3	4.554e3	0.933	0.82	0.77	58.8	YES	NO	bd	bb	0.525
15	Total-tetrafurans	24.97	7.442e3	9.898e3	0.933	0.75	0.77	113.4	YES	NO	bb	db	1.101
16	Total-tetrafurans	24.78	7.773e3	9.929e3	0.933	0.78	0.77	115.9	YES	NO	db	dd	1.124
17	Total-tetrafurans	24.64	3.964e3	5.399e3	0.933	0.73	0.77	65.5	YES	NO	dd	dd	0.594

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.30	2.748e3	1.667e3		1.65	1.55	51.4	YES	NO	dd	dd	0.299
2	13468-PECDF	27.24	2.923e3	1.917e3	1.013	1.53	1.55	49.0	YES	NO	bd	bd	0.297



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PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	30.33	1.743e3	1.216e3	0.866	1.43	1.55	14.6	YES	NO	db	db	0.219
2	Total-pentafurans	30.24	2.416e3	1.561e3	0.866	1.55	1.55	20.1	YES	NO	dd	bd	0.294
3	12378-PeCDF	30.04	3.492e3	2.159e3	0.845	1.62	1.55	27.2	YES	NO	bd	bb	0.416
4	Total-pentafurans	29.73	1.029e3	7.411e2	0.866	1.39	1.55	8.6	YES	NO	db	db	0.131
5	Total-pentafurans	29.07	8.745e2	5.812e2	0.866	1.50	1.55	5.9	YES	NO	dd	db	0.108
6	Total-pentafurans	28.76	4.952e3	3.624e3	0.866	1.37	1.55	30.7	YES	NO	dd	dd	0.633
7	Total-pentafurans	28.68	1.954e3	1.230e3	0.866	1.59	1.55	17.9	YES	NO	bd	bd	0.235
8	23478-PeCDF	31.37	2.776e3	2.042e3	0.911	1.36	1.55	20.4	YES	NO	bb	bb	0.349
9	Total-pentafurans	31.11	2.678e3	1.864e3	0.866	1.44	1.55	20.3	YES	NO	bd	bd	0.336
10	Total-pentafurans	28.89	1.183e4	7.224e3	0.866	1.64	1.55	61.6	YES	NO	MM	MM	1.408

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.11	1.364e3	1.237e3	1.248	1.10	1.24	25.7	YES	NO	db	db	0.176
2	123478-HxCDF	34.98	1.285e3	9.983e2	1.182	1.29	1.24	25.7	YES	NO	dd	bd	0.169
3	123789-HxCDF	37.00	6.086e2	4.694e2	1.187	1.30	1.24	13.0	YES	NO	bb	bb	0.085
4	234678-HxCDF	35.98	1.179e3	9.162e2	1.229	1.29	1.24	24.5	YES	NO	bb	bd	0.154

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.09	5.342e2	5.772e2	1.165	0.93	1.05	8.5	YES	NO	bb	bb	0.107
2	Total-heptafurans	39.51	1.704e3	1.743e3	1.185	0.98	1.05	24.0	YES	NO	bb	bb	0.301
3	1234678-HpCDF	38.84	1.960e3	1.945e3	1.204	1.01	1.05	28.3	YES	NO	bb	bb	0.310

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

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ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	8.819e3	1.146e4	0.933	0.77	0.77	113.3	YES	NO	dd	dd	1.287
2	Total-tetrafurans	24.38	5.321e2	7.829e2	0.933	0.68	0.77	10.9	YES	NO	bd	bd	0.083
3	Total-tetrafurans	24.11	5.498e3	7.299e3	0.933	0.75	0.77	92.4	YES	NO	db	db	0.812
4	Total-tetrafurans	23.87	5.232e3	6.223e3	0.933	0.84	0.77	81.5	YES	NO	dd	dd	0.727
5	Total-tetrafurans	23.72	5.069e3	6.697e3	0.933	0.76	0.77	88.3	YES	NO	dd	dd	0.747
6	Total-tetrafurans	23.63	2.749e3	3.350e3	0.933	0.82	0.77	46.9	YES	NO	dd	dd	0.387
7	Total-tetrafurans	23.40	1.392e4	1.611e4	0.933	0.86	0.77	138.8	YES	NO	dd	dd	1.906
8	Total-tetrafurans	22.63	2.793e3	3.884e3	0.933	0.72	0.77	47.4	YES	NO	bb	bb	0.424
9	1368-TCDF	22.37	5.044e3	7.167e3	1.064	0.70	0.77	87.3	YES	NO	bb	bd	0.679
10	1289-TCDF	27.36	4.901e2	6.344e2	0.858	0.77	0.77	6.5	YES	NO	bb	bb	0.078
11	Total-tetrafurans	26.11	6.086e3	8.044e3	0.933	0.76	0.77	89.4	YES	NO	db	db	0.897
12	2378-TCDF	25.88	3.825e3	5.631e3	0.876	0.68	0.77	57.9	YES	NO	bd	bd	0.639
13	Total-tetrafurans	25.38	2.846e3	3.541e3	0.933	0.80	0.77	46.3	YES	NO	dd	bd	0.405
14	Total-tetrafurans	25.20	3.721e3	4.554e3	0.933	0.82	0.77	58.8	YES	NO	bd	bb	0.525
15	Total-tetrafurans	24.97	7.442e3	9.898e3	0.933	0.75	0.77	113.4	YES	NO	bb	db	1.101
16	Total-tetrafurans	24.78	7.773e3	9.929e3	0.933	0.78	0.77	115.9	YES	NO	db	dd	1.124
17	Total-tetrafurans	24.64	3.964e3	5.399e3	0.933	0.73	0.77	65.5	YES	NO	dd	dd	0.594
18	Total-pentafurans	30.33	1.743e3	1.216e3	0.866	1.43	1.55	14.6	YES	NO	db	db	0.219
19	Total-pentafurans	30.24	2.416e3	1.561e3	0.866	1.55	1.55	20.1	YES	NO	dd	bd	0.294
20	12378-PeCDF	30.04	3.492e3	2.159e3	0.845	1.62	1.55	27.2	YES	NO	bd	bb	0.416
21	Total-pentafurans	29.73	1.029e3	7.411e2	0.866	1.39	1.55	8.6	YES	NO	db	db	0.131
22	Total-pentafurans	29.07	8.745e2	5.812e2	0.866	1.50	1.55	5.9	YES	NO	dd	db	0.108
23	Total-pentafurans	28.76	4.952e3	3.624e3	0.866	1.37	1.55	30.7	YES	NO	dd	dd	0.633
24	Total-pentafurans	28.68	1.954e3	1.230e3	0.866	1.59	1.55	17.9	YES	NO	bd	bd	0.235
25	23478-PeCDF	31.37	2.776e3	2.042e3	0.911	1.36	1.55	20.4	YES	NO	bb	bb	0.349
26	Total-pentafurans	31.11	2.678e3	1.864e3	0.866	1.44	1.55	20.3	YES	NO	bd	bd	0.336
27	123678-HxCDF	35.11	1.364e3	1.237e3	1.248	1.10	1.24	25.7	YES	NO	db	db	0.176
28	123478-HxCDF	34.98	1.285e3	9.983e2	1.182	1.29	1.24	25.7	YES	NO	dd	bd	0.169
29	123789-HxCDF	37.00	6.086e2	4.694e2	1.187	1.30	1.24	13.0	YES	NO	bb	bb	0.085
30	234678-HxCDF	35.98	1.179e3	9.162e2	1.229	1.29	1.24	24.5	YES	NO	bb	bd	0.154
31	1234789-HpCDF	41.09	5.342e2	5.772e2	1.165	0.93	1.05	8.5	YES	NO	bb	bb	0.107
32	Total-heptafurans	39.51	1.704e3	1.743e3	1.185	0.98	1.05	24.0	YES	NO	bb	bb	0.301
33	1234678-HpCDF	38.84	1.960e3	1.945e3	1.204	1.01	1.05	28.3	YES	NO	bb	bb	0.310
34	OCDF	45.35	3.327e3	3.918e3	1.186	0.85	0.89	47.4	YES	NO	bb	bb	0.760
35	Total-penta1	27.30	2.748e3	1.667e3		1.65	1.55	51.4	YES	NO	dd	dd	0.299
36	13468-PECDF	27.24	2.923e3	1.917e3	1.013	1.53	1.55	49.0	YES	NO	bd	bd	0.297
37	Total-pentafurans	28.89	1.183e4	7.224e3	0.866	1.64	1.55	61.6	YES	NO	MM	MM	1.408

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TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.49	1.217e3	1.676e3	1.099	0.73	0.77	8.4	YES	NO	db	dd	0.210
2	Total-tetradoxins	25.14	3.693e3	4.360e3	1.099	0.85	0.77	27.4	YES	NO	bd	bb	0.585
3	Total-tetradoxins	24.85	2.797e3	3.701e3	1.099	0.76	0.77	20.7	YES	NO	bb	bb	0.472
4	Total-tetradoxins	23.92	7.389e3	9.101e3	1.099	0.81	0.77	57.5	YES	NO	bd	bb	1.198
5	1368-TCDD	23.64	1.194e4	1.477e4	1.084	0.81	0.77	99.5	YES	NO	bb	bb	1.967
6	Total-tetradoxins	26.64	1.274e3	1.893e3	1.099	0.67	0.77	9.1	YES	NO	db	db	0.230
7	Total-tetradoxins	26.14	3.296e3	3.893e3	1.099	0.85	0.77	18.9	YES	NO	bb	db	0.522

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.93	6.920e3	4.665e3	1.837	1.48	1.55	49.7	YES	NO	bd	bb	0.658
2	12378-PeCDD	31.62	1.989e3	1.173e3	1.087	1.70	1.55	21.9	YES	NO	bb	bb	0.304
3	Total-pentadoxins	30.94	2.362e3	1.340e3	1.392	1.76	1.55	24.1	YES	NO	bb	bb	0.277
4	Total-pentadoxins	30.38	5.985e3	4.155e3	1.392	1.44	1.55	71.6	YES	NO	dd	dd	0.760
5	Total-pentadoxins	30.04	7.298e3	4.611e3	1.392	1.58	1.55	88.4	YES	NO	bb	bb	0.893

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadoxins	35.22	1.987e3	1.422e3	1.007	1.40	1.24	19.9	YES	NO	bb	bb	0.311
2	Total-hexadoxins	34.86	1.061e4	8.955e3	1.007	1.19	1.24	143.7	YES	NO	bd	bb	1.783
3	124679-HXCDD	34.10	1.476e3	1.246e3	1.033	1.18	1.24	22.5	YES	NO	bb	bb	0.243

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.34	4.212e3	3.992e3	1.253	1.05	1.05	53.7	YES	NO	bb	bb	0.770
2	1234679-HPCDD	39.30	3.902e3	3.586e3	1.286	1.09	1.05	58.2	YES	NO	bb	bb	0.684

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.49	1.217e3	1.676e3	1.099	0.73	0.77	8.4	YES	NO	db	dd	0.210
2	Total-tetradoxins	25.14	3.693e3	4.360e3	1.099	0.85	0.77	27.4	YES	NO	bd	bb	0.585
3	Total-tetradoxins	24.85	2.797e3	3.701e3	1.099	0.76	0.77	20.7	YES	NO	bb	bb	0.472
4	Total-tetradoxins	23.92	7.389e3	9.101e3	1.099	0.81	0.77	57.5	YES	NO	bd	bb	1.198
5	1368-TCDD	23.64	1.194e4	1.477e4	1.084	0.81	0.77	99.5	YES	NO	bb	bb	1.967
6	Total-tetradoxins	26.64	1.274e3	1.893e3	1.099	0.67	0.77	9.1	YES	NO	db	db	0.230
7	Total-tetradoxins	26.14	3.296e3	3.893e3	1.099	0.85	0.77	18.9	YES	NO	bb	db	0.522
8	12479-PECDD	28.93	6.920e3	4.665e3	1.837	1.48	1.55	49.7	YES	NO	bd	bb	0.658
9	12378-PeCDD	31.62	1.989e3	1.173e3	1.087	1.70	1.55	21.9	YES	NO	bb	bb	0.304
10	Total-pentadoxins	30.94	2.362e3	1.340e3	1.392	1.76	1.55	24.1	YES	NO	bb	bb	0.277
11	Total-pentadoxins	30.38	5.985e3	4.155e3	1.392	1.44	1.55	71.6	YES	NO	dd	dd	0.760
12	Total-pentadoxins	30.04	7.298e3	4.611e3	1.392	1.58	1.55	88.4	YES	NO	bb	bb	0.893
13	Total-hexadoxins	35.22	1.987e3	1.422e3	1.007	1.40	1.24	19.9	YES	NO	bb	bb	0.311
14	Total-hexadoxins	34.86	1.061e4	8.955e3	1.007	1.19	1.24	143.7	YES	NO	bd	bb	1.783
15	124679-HXCDD	34.10	1.476e3	1.246e3	1.033	1.18	1.24	22.5	YES	NO	bb	bb	0.243
16	OCDD	45.11	1.509e4	1.688e4	1.103	0.89	0.89	220.6	YES	NO	bb	bb	3.611
17	1234678-HpCDD	40.34	4.212e3	3.992e3	1.253	1.05	1.05	53.7	YES	NO	bb	bb	0.770
18	1234679-HPCDD	39.30	3.902e3	3.586e3	1.286	1.09	1.05	58.2	YES	NO	bb	bb	0.684

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.55	8.819e3	1.146e4	0.933	0.77	0.77	113.3	YES	NO	dd	dd	1.287
2	Total-tetrafurans	24.38	5.321e2	7.829e2	0.933	0.68	0.77	10.9	YES	NO	bd	bd	0.083
3	Total-tetrafurans	24.11	5.498e3	7.299e3	0.933	0.75	0.77	92.4	YES	NO	db	db	0.812
4	Total-tetrafurans	23.87	5.232e3	6.223e3	0.933	0.84	0.77	81.5	YES	NO	dd	dd	0.727
5	Total-tetrafurans	23.72	5.069e3	6.697e3	0.933	0.76	0.77	88.3	YES	NO	dd	dd	0.747
6	Total-tetrafurans	23.63	2.749e3	3.350e3	0.933	0.82	0.77	46.9	YES	NO	dd	dd	0.387
7	Total-tetrafurans	23.40	1.392e4	1.611e4	0.933	0.86	0.77	138.8	YES	NO	dd	dd	1.906
8	Total-tetrafurans	22.63	2.793e3	3.884e3	0.933	0.72	0.77	47.4	YES	NO	bb	bb	0.424
9	1368-TCDF	22.37	5.044e3	7.167e3	1.064	0.70	0.77	87.3	YES	NO	bb	bd	0.679
10	1289-TCDF	27.36	4.901e2	6.344e2	0.858	0.77	0.77	6.5	YES	NO	bb	bb	0.078
11	Total-tetrafurans	26.11	6.086e3	8.044e3	0.933	0.76	0.77	89.4	YES	NO	db	db	0.897
12	2378-TCDF	25.88	3.825e3	5.631e3	0.876	0.68	0.77	57.9	YES	NO	bd	bd	0.639
13	Total-tetrafurans	25.38	2.846e3	3.541e3	0.933	0.80	0.77	46.3	YES	NO	dd	bd	0.405
14	Total-tetrafurans	25.20	3.721e3	4.554e3	0.933	0.82	0.77	58.8	YES	NO	bd	bb	0.525
15	Total-tetrafurans	24.97	7.442e3	9.898e3	0.933	0.75	0.77	113.4	YES	NO	bb	db	1.101
16	Total-tetrafurans	24.78	7.773e3	9.929e3	0.933	0.78	0.77	115.9	YES	NO	db	dd	1.124
17	Total-tetrafurans	24.64	3.964e3	5.399e3	0.933	0.73	0.77	65.5	YES	NO	dd	dd	0.594
18	Total-penta furans	30.33	1.743e3	1.216e3	0.866	1.43	1.55	14.6	YES	NO	db	db	0.219
19	Total-penta furans	30.24	2.416e3	1.561e3	0.866	1.55	1.55	20.1	YES	NO	dd	bd	0.294
20	12378-PeCDF	30.04	3.492e3	2.159e3	0.845	1.62	1.55	27.2	YES	NO	bd	bb	0.416
21	Total-penta furans	29.73	1.029e3	7.411e2	0.866	1.39	1.55	8.6	YES	NO	db	db	0.131
22	Total-penta furans	29.07	8.745e2	5.812e2	0.866	1.50	1.55	5.9	YES	NO	dd	db	0.108
23	Total-penta furans	28.76	4.952e3	3.624e3	0.866	1.37	1.55	30.7	YES	NO	dd	dd	0.633
24	Total-penta furans	28.68	1.954e3	1.230e3	0.866	1.59	1.55	17.9	YES	NO	bd	bd	0.235
25	23478-PeCDF	31.37	2.776e3	2.042e3	0.911	1.36	1.55	20.4	YES	NO	bb	bb	0.349
26	Total-penta furans	31.11	2.678e3	1.864e3	0.866	1.44	1.55	20.3	YES	NO	bd	bd	0.336
27	123678-HxCDF	35.11	1.364e3	1.237e3	1.248	1.10	1.24	25.7	YES	NO	db	db	0.176
28	123478-HxCDF	34.98	1.285e3	9.983e2	1.182	1.29	1.24	25.7	YES	NO	dd	bd	0.169
29	123789-HxCDF	37.00	6.086e2	4.694e2	1.187	1.30	1.24	13.0	YES	NO	bb	bb	0.085
30	234678-HxCDF	35.98	1.179e3	9.162e2	1.229	1.29	1.24	24.5	YES	NO	bb	bd	0.154
31	1234789-HpCDF	41.09	5.342e2	5.772e2	1.165	0.93	1.05	8.5	YES	NO	bb	bb	0.107
32	Total-hepta furans	39.51	1.704e3	1.743e3	1.185	0.98	1.05	24.0	YES	NO	bb	bb	0.301
33	1234678-HpCDF	38.84	1.960e3	1.945e3	1.204	1.01	1.05	28.3	YES	NO	bb	bb	0.310
34	OCDF	45.35	3.327e3	3.918e3	1.186	0.85	0.89	47.4	YES	NO	bb	bb	0.760
35	Total-penta1	27.30	2.748e3	1.667e3		1.65	1.55	51.4	YES	NO	dd	dd	0.299
36	13468-PECDF	27.24	2.923e3	1.917e3	1.013	1.53	1.55	49.0	YES	NO	bd	bd	0.297
37	Total-penta furans	28.89	1.183e4	7.224e3	0.866	1.64	1.55	61.6	YES	NO	MM	MM	1.408

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-tetradoxins	25.49	1.217e3	1.676e3	1.099	0.73	0.77	8.4	YES	NO	db	dd	0.210
39	Total-tetradoxins	25.14	3.693e3	4.360e3	1.099	0.85	0.77	27.4	YES	NO	bd	bb	0.585
40	Total-tetradoxins	24.85	2.797e3	3.701e3	1.099	0.76	0.77	20.7	YES	NO	bb	bb	0.472
41	Total-tetradoxins	23.92	7.389e3	9.101e3	1.099	0.81	0.77	57.5	YES	NO	bd	bb	1.198
42	1368-TCDD	23.64	1.194e4	1.477e4	1.084	0.81	0.77	99.5	YES	NO	bb	bb	1.967
43	Total-tetradoxins	26.64	1.274e3	1.893e3	1.099	0.67	0.77	9.1	YES	NO	db	db	0.230
44	Total-tetradoxins	26.14	3.296e3	3.893e3	1.099	0.85	0.77	18.9	YES	NO	bb	db	0.522
45	12479-PECDD	28.93	6.920e3	4.665e3	1.837	1.48	1.55	49.7	YES	NO	bd	bb	0.658
46	12378-PeCDD	31.62	1.989e3	1.173e3	1.087	1.70	1.55	21.9	YES	NO	bb	bb	0.304
47	Total-pentadoxins	30.94	2.362e3	1.340e3	1.392	1.76	1.55	24.1	YES	NO	bb	bb	0.277
48	Total-pentadoxins	30.38	5.985e3	4.155e3	1.392	1.44	1.55	71.6	YES	NO	dd	dd	0.760
49	Total-pentadoxins	30.04	7.298e3	4.611e3	1.392	1.58	1.55	88.4	YES	NO	bb	bb	0.893
50	Total-hexadoxins	35.22	1.987e3	1.422e3	1.007	1.40	1.24	19.9	YES	NO	bb	bb	0.311
51	Total-hexadoxins	34.86	1.061e4	8.955e3	1.007	1.19	1.24	143.7	YES	NO	bd	bb	1.783
52	124679-HXCDD	34.10	1.476e3	1.246e3	1.033	1.18	1.24	22.5	YES	NO	bb	bb	0.243
53	OCDD	45.11	1.509e4	1.688e4	1.103	0.89	0.89	220.6	YES	NO	bb	bb	3.611
54	1234678-HpCDD	40.34	4.212e3	3.992e3	1.253	1.05	1.05	53.7	YES	NO	bb	bb	0.770
55	1234679-HPCDD	39.30	3.902e3	3.586e3	1.286	1.09	1.05	58.2	YES	NO	bb	bb	0.684

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.53	7.097e3					0.5	NO		bb		
2	FUNCTION1 PFK	25.96	6.268e4					1.5	NO		bb		
3	FUNCTION1 PFK	25.47	2.955e4					0.8	NO		bb		
4	FUNCTION1 PFK	25.23	5.452e4					1.5	NO		db		
5	FUNCTION1 PFK	25.16	5.803e4					1.3	NO		bd		
6	FUNCTION1 PFK	24.57	1.744e4					0.7	NO		bb		
7	FUNCTION1 PFK	24.10	1.637e4					0.7	NO		bb		
8	FUNCTION1 PFK	23.70	7.703e3					0.5	NO		bb		
9	FUNCTION1 PFK	23.46	1.036e4					0.7	NO		bb		
10	FUNCTION1 PFK	23.40	2.664e4					0.9	NO		bb		
11	FUNCTION1 PFK	22.68	4.788e4					1.3	NO		bb		
12	FUNCTION1 PFK	21.81	2.349e4					0.8	NO		bb		
13	FUNCTION1 PFK	28.10	2.457e4					0.9	NO		bb		
14	FUNCTION1 PFK	28.04	5.300e4					1.4	NO		bb		
15	FUNCTION1 PFK	27.44	2.165e4					0.8	NO		bb		
16	FUNCTION1 PFK	27.05	3.968e4					0.8	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.84	4.848e5					2.3	NO		bb		0.000
2	FUNCTION2 PFK	32.49	5.747e5					4.2	YES		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.13	1.864e4					1.4	NO		bb		
2	FUNCTION4 PFK	39.15	2.384e4					1.5	NO		bb		
3	FUNCTION4 PFK	38.94	1.061e4					0.7	NO		bb		
4	FUNCTION4 PFK	38.78	1.571e4					1.5	NO		db		
5	FUNCTION4 PFK	38.74	1.500e4					1.5	NO		bd		
6	FUNCTION4 PFK	38.37	2.863e4					1.8	NO		bb		
7	FUNCTION4 PFK	38.32	3.334e3					0.6	NO		bb		
8	FUNCTION4 PFK	42.48	6.139e3					1.0	NO		bb		
9	FUNCTION4 PFK	42.44	5.003e3					0.9	NO		bb		
10	FUNCTION4 PFK	42.39	4.789e3					0.8	NO		bb		
11	FUNCTION4 PFK	42.35	1.261e4					1.6	NO		db		
12	FUNCTION4 PFK	42.30	1.087e4					1.2	NO		bd		
13	FUNCTION4 PFK	42.08	3.538e3					0.7	NO		db		
14	FUNCTION4 PFK	42.05	1.849e4					1.3	NO		bd		
15	FUNCTION4 PFK	41.88	5.414e3					0.7	NO		bb		
16	FUNCTION4 PFK	41.19	2.507e4					1.8	NO		bb		
17	FUNCTION4 PFK	40.61	1.760e3					0.5	NO		bb		
18	FUNCTION4 PFK	40.47	8.575e3					1.1	NO		bb		
19	FUNCTION4 PFK	40.37	1.527e3					0.4	NO		bb		
20	FUNCTION4 PFK	40.18	1.638e3					0.4	NO		bb		



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**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.19	9.427e2					0.5	NO		bb		
2	FUNCTION5 PFK	43.08	9.390e2					0.5	NO		bb		
3	FUNCTION5 PFK	45.91	8.734e3					1.1	NO		bb		
4	FUNCTION5 PFK	45.52	1.961e4					1.9	NO		bb		
5	FUNCTION5 PFK	45.42	1.117e3					0.6	NO		bb		
6	FUNCTION5 PFK	45.15	6.392e3					1.4	NO		bb		
7	FUNCTION5 PFK	45.08	4.291e3					1.0	NO		db		
8	FUNCTION5 PFK	45.03	9.458e3					1.3	NO		bd		
9	FUNCTION5 PFK	44.64	5.495e3					1.2	NO		bb		
10	FUNCTION5 PFK	44.60	9.004e3					1.6	NO		bb		
11	FUNCTION5 PFK	44.42	6.730e3					1.5	NO		bb		
12	FUNCTION5 PFK	44.09	1.414e4					1.9	NO		db		
13	FUNCTION5 PFK	44.06	1.843e4					2.4	NO		dd		
14	FUNCTION5 PFK	43.99	2.957e3					0.7	NO		bd		
15	FUNCTION5 PFK	43.54	8.264e3					1.4	NO		bb		
16	FUNCTION5 PFK	43.40	1.429e4					1.3	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:34 Pacific Standard Time

**ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk****ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.35	8.519e1					0.8	NO		bb		0.000
2	FUNCTION1 HXCD...	27.15	8.230e1					1.3	NO		bb		0.000
3	FUNCTION1 HXCD...	26.91	1.041e2					2.0	NO		db		0.000
4	FUNCTION1 HXCD...	26.82	7.535e1					1.9	NO		bd		0.000
5	FUNCTION1 HXCD...	26.53	8.526e1					1.5	NO		db		0.000
6	FUNCTION1 HXCD...	26.49	1.173e2					1.7	NO		bd		0.000
7	FUNCTION1 HXCD...	26.17	8.908e1					1.8	NO		db		0.000
8	FUNCTION1 HXCD...	26.06	9.451e2					14.6	YES		dd		0.000
9	FUNCTION1 HXCD...	25.96	1.084e2					1.8	NO		dd		0.000
10	FUNCTION1 HXCD...	25.88	8.417e1					1.4	NO		bd		0.000
11	FUNCTION1 HXCD...	25.70	7.373e1					1.6	NO		bb		0.000
12	FUNCTION1 HXCD...	25.55	7.212e1					1.7	NO		db		0.000
13	FUNCTION1 HXCD...	25.46	2.798e2					2.3	NO		dd		0.000
14	FUNCTION1 HXCD...	25.35	1.027e2					2.2	NO		bd		0.000
15	FUNCTION1 HXCD...	23.43	7.796e1					0.5	NO		bb		0.000
16	FUNCTION1 HXCD...	22.81	7.233e1					1.1	NO		bb		0.000
17	FUNCTION1 HXCD...	22.42	1.314e2					1.7	NO		bb		0.000
18	FUNCTION1 HXCD...	27.94	8.507e1					1.5	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.44	1.132e2					2.2	NO		bb		0.000
2	FUNCTION1 HPCD...	27.12	1.694e2					1.8	NO		bb		0.000
3	FUNCTION1 HPCD...	25.00	8.957e1					1.3	NO		bb		0.000
4	FUNCTION1 HPCD...	24.04	8.382e1					1.7	NO		db		0.000
5	FUNCTION1 HPCD...	23.92	1.131e2					1.5	NO		bd		0.000
6	FUNCTION1 HPCD...	23.07	1.414e2					2.3	NO		db		0.000
7	FUNCTION1 HPCD...	22.99	9.108e1					2.7	NO		bd		0.000

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:34 Pacific Standard Time

ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.01	1.908e2					3.1	YES		bb		0.000
2	FUNCTION2 HPCD...	29.71	7.703e1					2.0	NO		db		0.000
3	FUNCTION2 HPCD...	29.66	1.039e2					1.8	NO		bd		0.000
4	FUNCTION2 HPCD...	29.05	9.986e1					1.5	NO		bb		0.000
5	FUNCTION2 HPCD...	28.76	9.395e1					2.1	NO		bb		0.000
6	FUNCTION2 HPCD...	28.44	8.825e1					1.9	NO		bb		0.000
7	FUNCTION2 HPCD...	32.42	8.532e1					2.6	NO		bb		0.000
8	FUNCTION2 HPCD...	31.62	1.622e2					4.3	YES		db		0.000
9	FUNCTION2 HPCD...	31.59	9.122e1					2.6	NO		bd		0.000
10	FUNCTION2 HPCD...	31.34	1.627e2					2.5	NO		bb		0.000
11	FUNCTION2 HPCD...	30.75	7.414e1					2.2	NO		bb		0.000

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.59	9.711e1					1.9	NO		bb		0.000
2	FUNCTION3 OCDPE	37.06	7.566e1					1.3	NO		db		0.000
3	FUNCTION3 OCDPE	36.99	9.000e1					2.4	NO		bd		0.000
4	FUNCTION3 OCDPE	36.86	1.027e2					2.2	NO		bb		0.000
5	FUNCTION3 OCDPE	36.59	2.405e2					4.5	YES		bb		0.000
6	FUNCTION3 OCDPE	36.20	2.060e2					4.6	YES		db		0.000
7	FUNCTION3 OCDPE	36.09	1.690e2					3.1	YES		bd		0.000
8	FUNCTION3 OCDPE	34.30	7.375e1					2.1	NO		bb		0.000
9	FUNCTION3 OCDPE	33.62	7.813e1					1.7	NO		bb		0.000

## ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.56	1.828e2					2.8	NO		bb		0.000
2	FUNCTION4 NCDPE	38.50	3.444e3					57.7	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:34 Pacific Standard Time

ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

**ETHERS6**

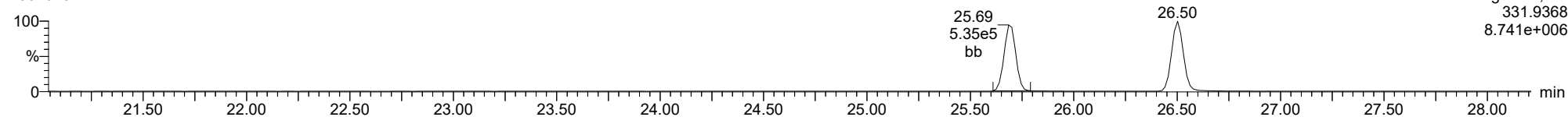
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.38	7.056e1					2.6	NO		bb		0.000
2	FUNCTION5 DCDPE	45.23	8.787e1					2.6	NO		bb		0.000
3	FUNCTION5 DCDPE	44.93	7.108e1					2.1	NO		bb		0.000
4	FUNCTION5 DCDPE	44.80	1.302e2					2.3	NO		bb		0.000
5	FUNCTION5 DCDPE	44.55	9.649e1					6.6	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

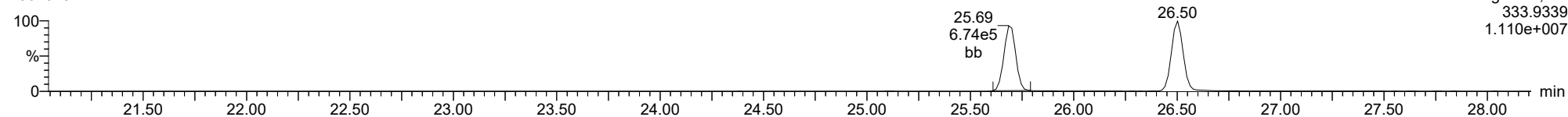
**13C-1234-TCDD**

23020132



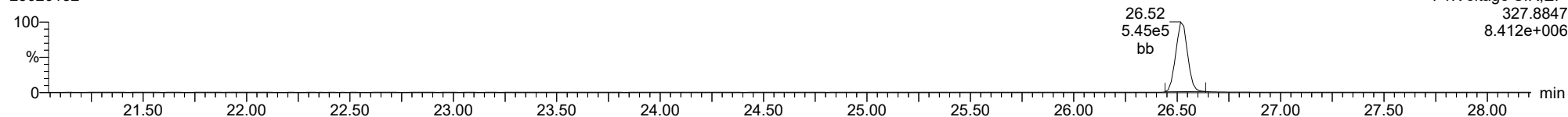
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23020132



**37CL-2378-TCDD**

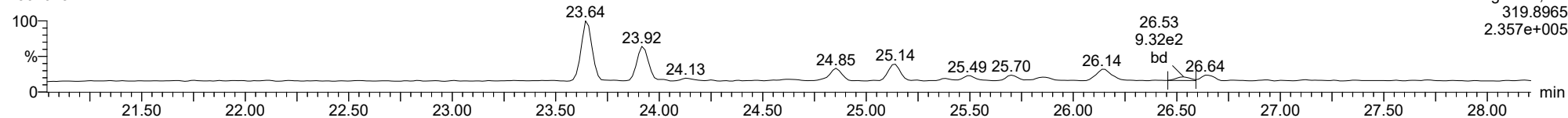
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

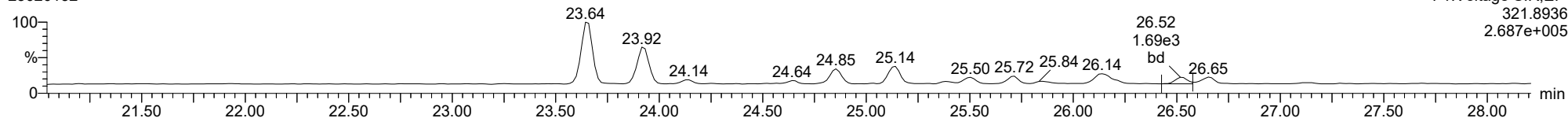
**2378-TCDD**

23020132



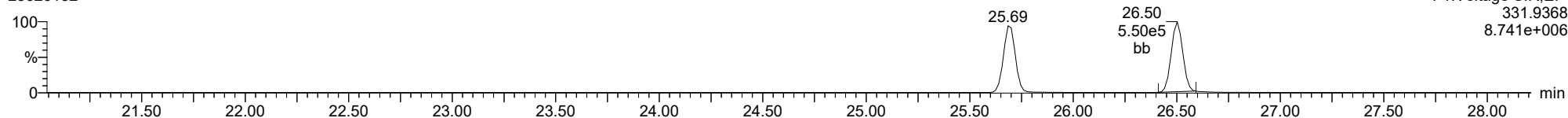
**2378-TCDD**

23020132



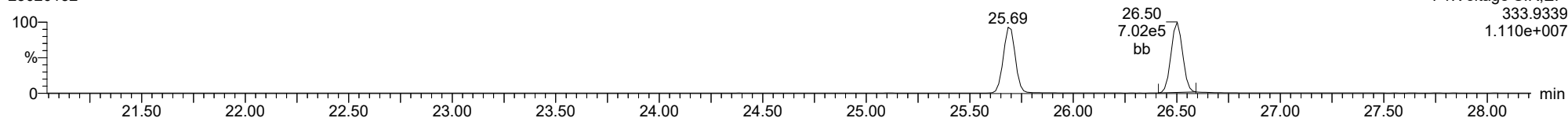
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23020132



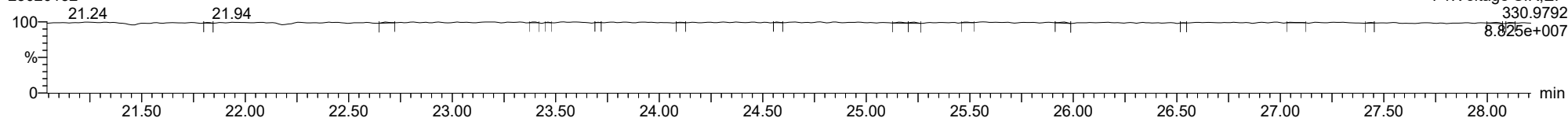
**13C-2378-TCDD**

23020132



**FUNCTION1 PFK**

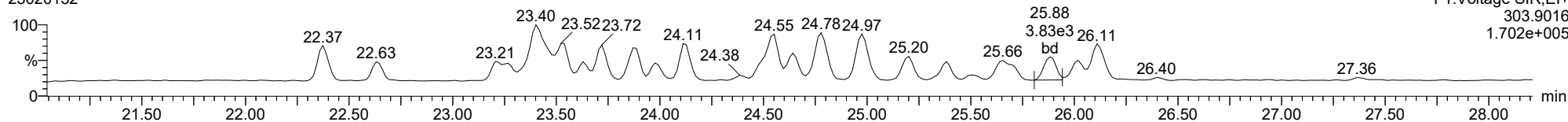
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

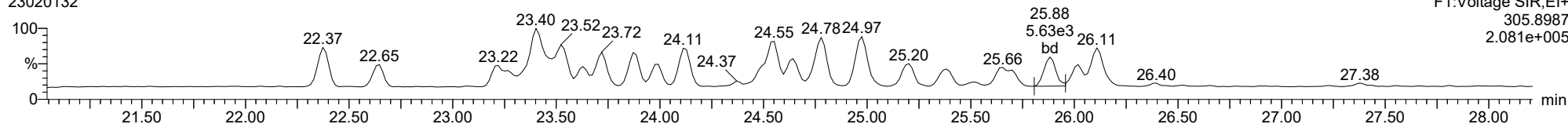
2378-TCDF

23020132



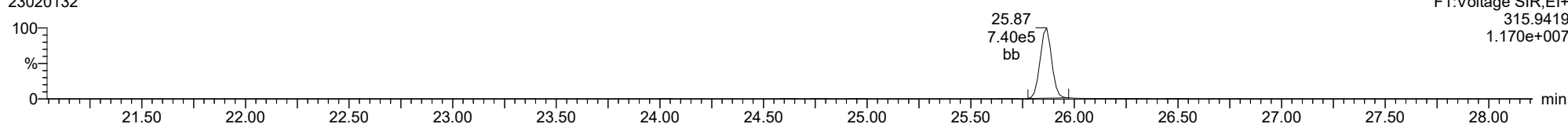
2378-TCDF

23020132



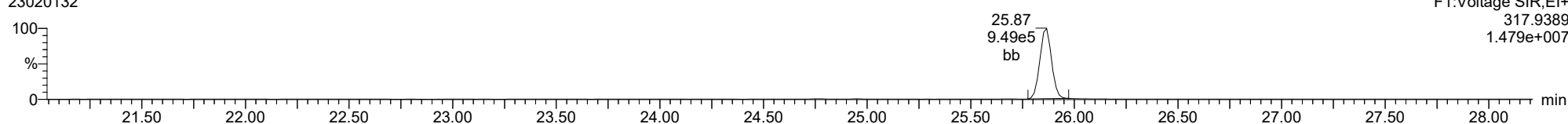
13C-2378-TCDF

23020132



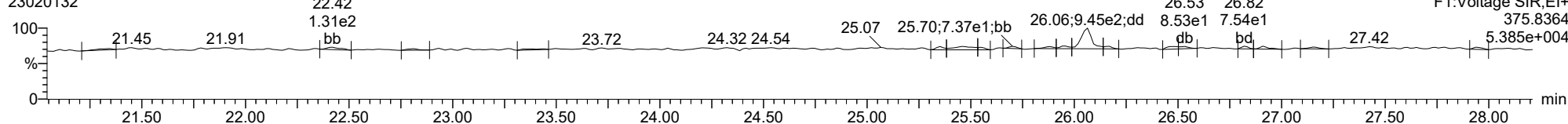
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23020132



FUNCTION1 HXCDPE

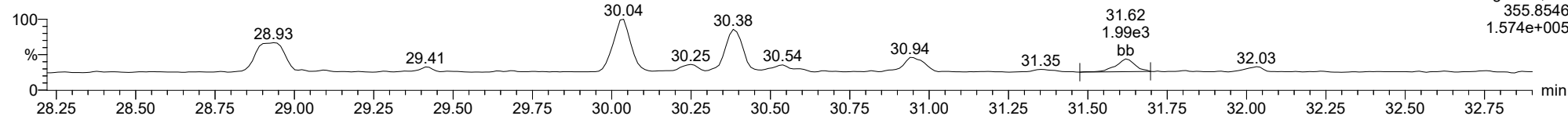
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ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

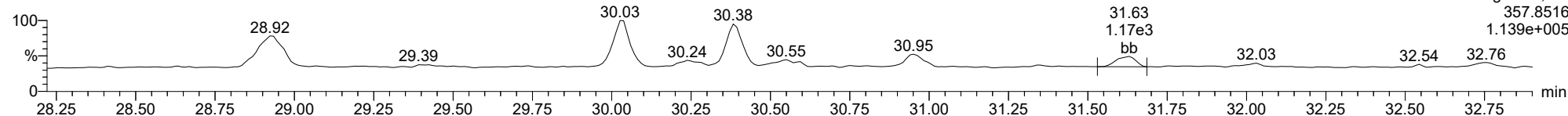
12378-PeCDD

23020132



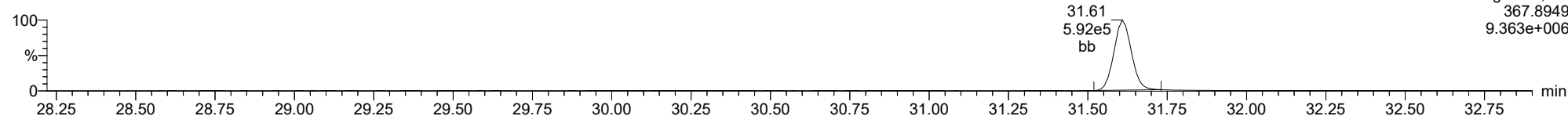
12378-PeCDD

23020132



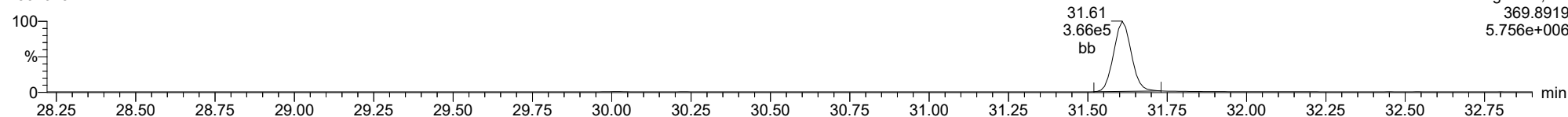
13C-12378-PeCDD

23020132



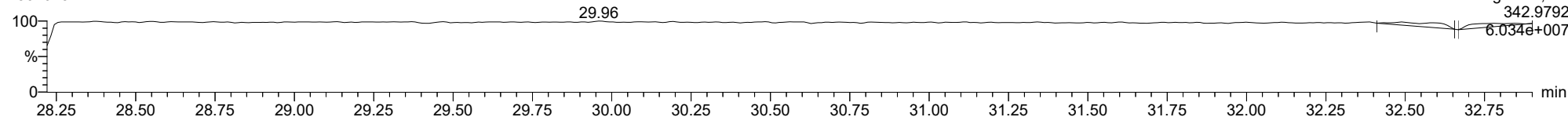
13C-12378-PeCDD

23020132



FUNCTION2 PFK

23020132

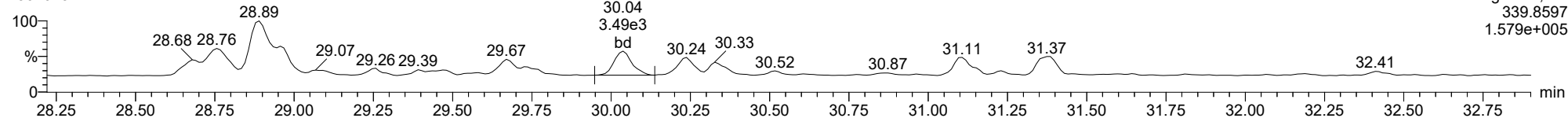




ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

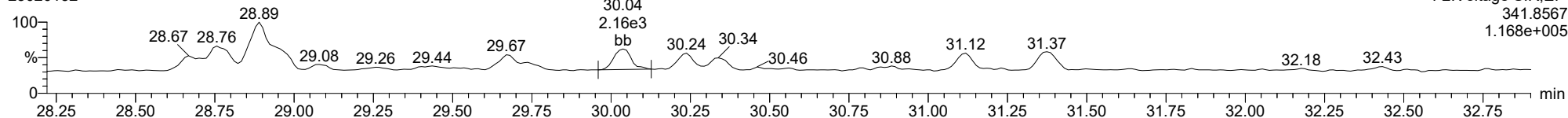
12378-PeCDF

23020132



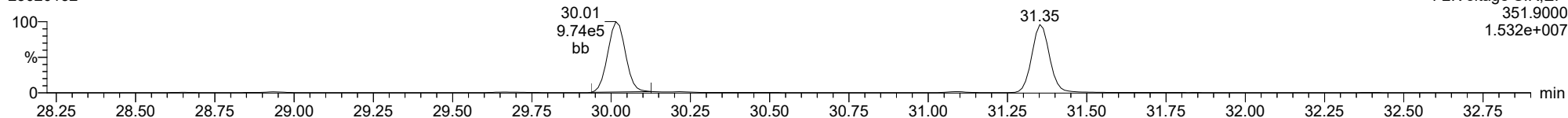
12378-PeCDF

23020132



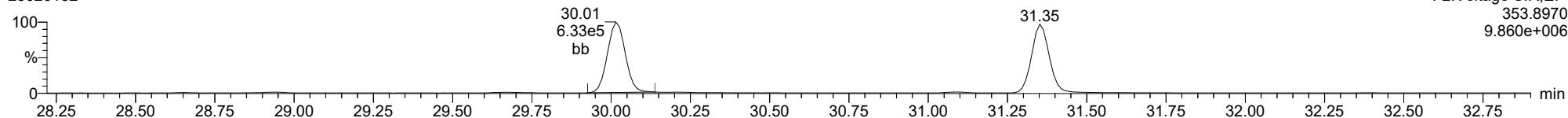
13C-12378-PeCDF

23020132



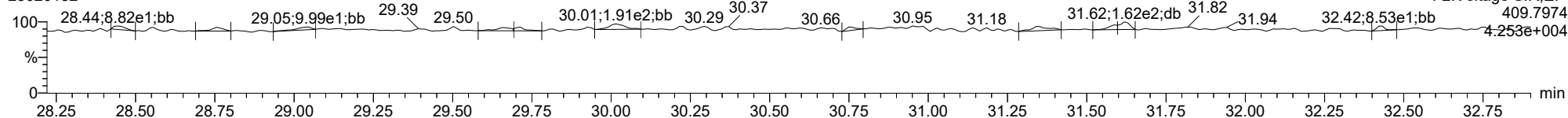
13C-12378-PeCDF

23020132



FUNCTION2 HPCDPE

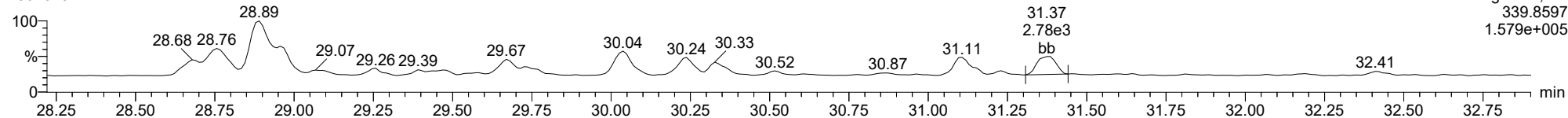
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ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

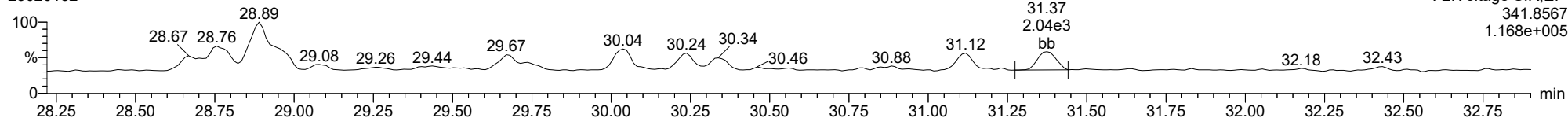
**23478-PeCDF**

23020132



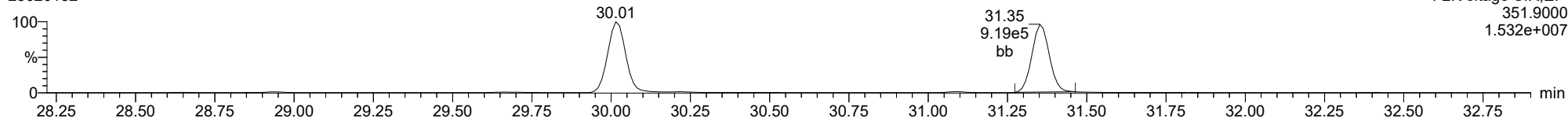
**23478-PeCDF**

23020132



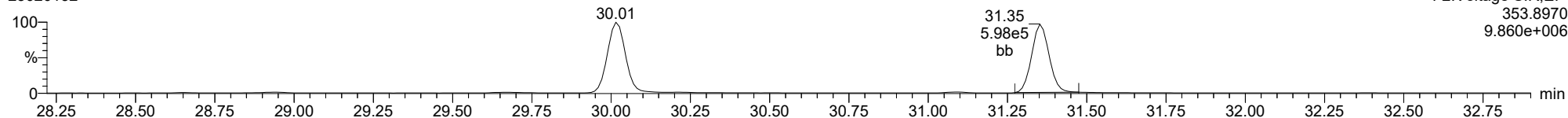
**13C-23478-PeCDF**

23020132



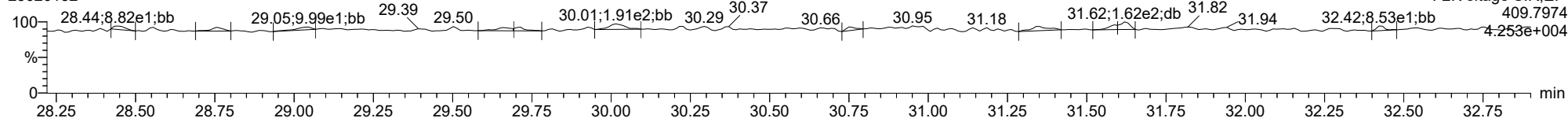
**13C-23478-PeCDF**

23020132



**FUNCTION2 HPCDPE**

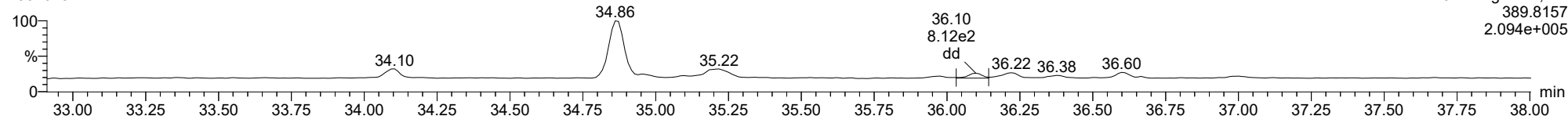
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ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

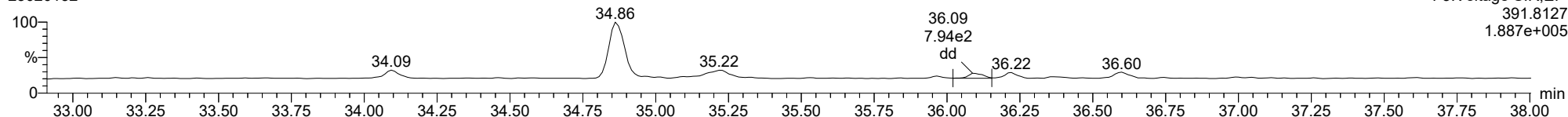
**123478-HxCDD**

23020132



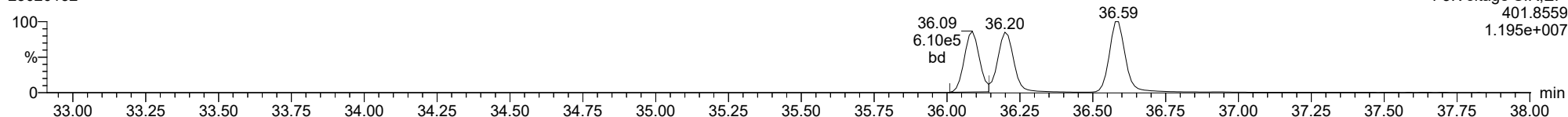
**123478-HxCDD**

23020132



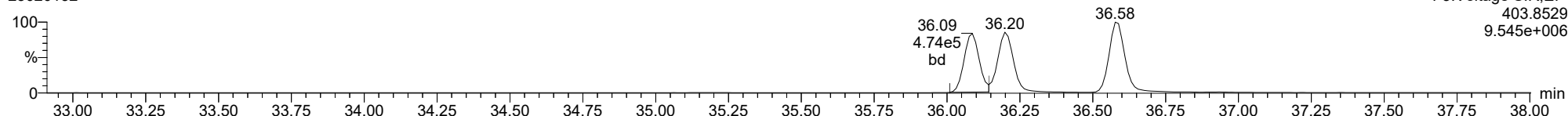
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23020132



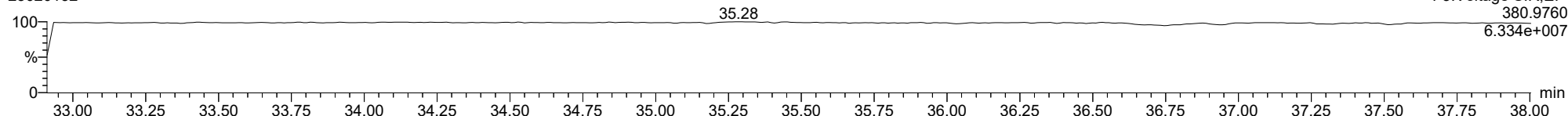
**13C-123478-HxCDD**

23020132



**FUNCTION3 PFK**

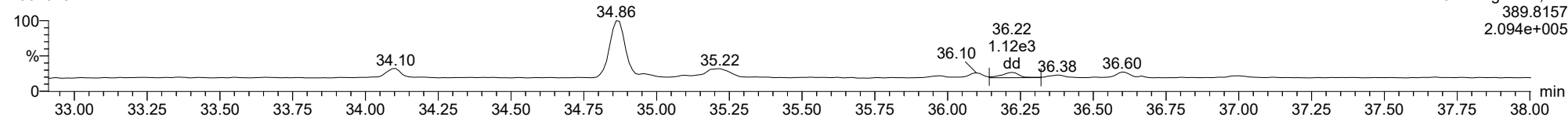
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

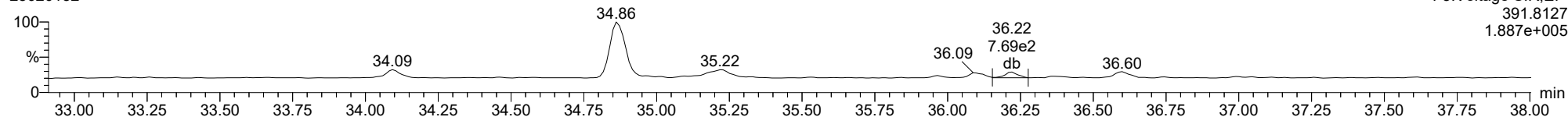
**123678-HxCDD**

23020132



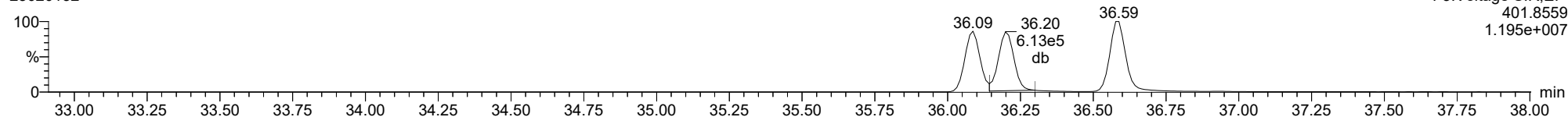
**123678-HxCDD**

23020132



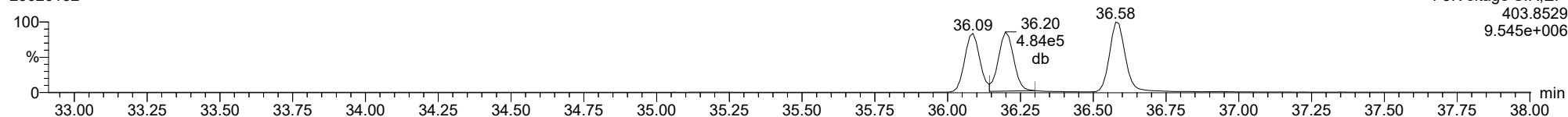
**13C-123678-HxCDD**

23020132



**13C-123678-HxCDD**

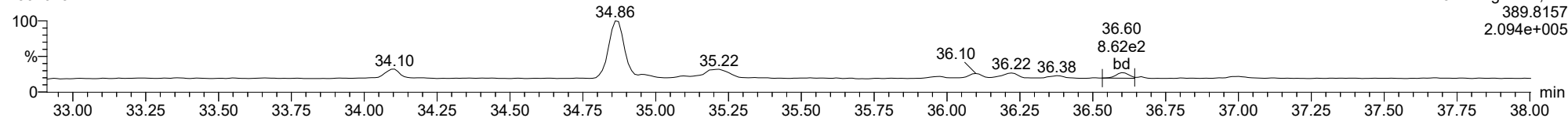
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

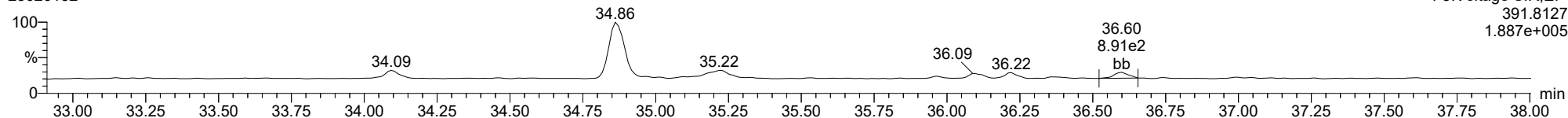
**123789-HxCDD**

23020132



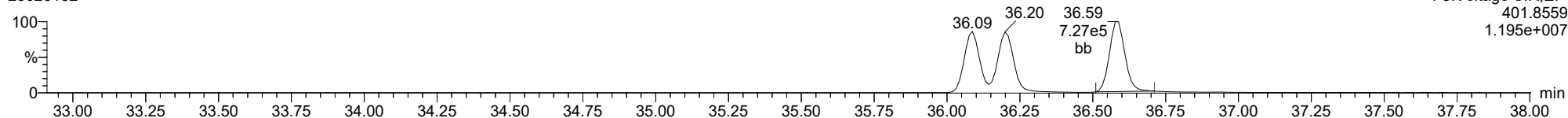
**123789-HxCDD**

23020132



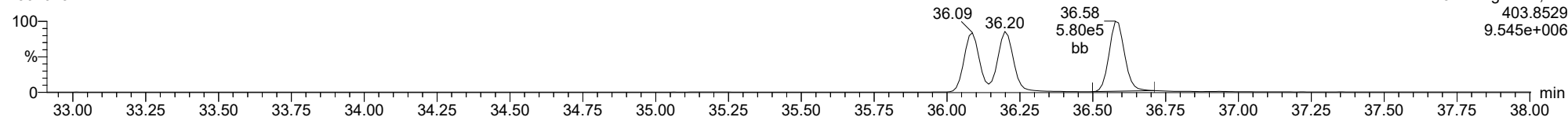
**13C-123789-HxCDD**

23020132



**13C-123789-HxCDD**

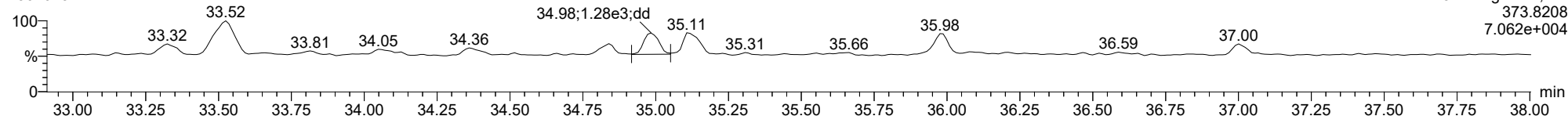
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ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

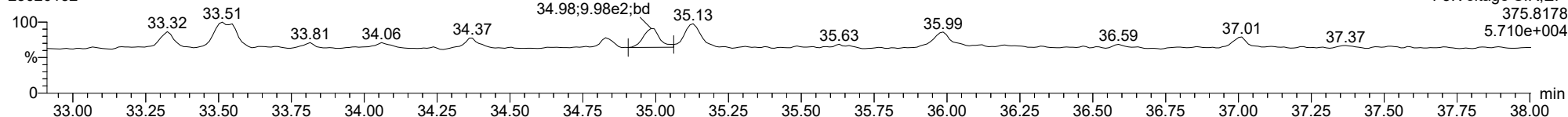
**123478-HxCDF**

23020132



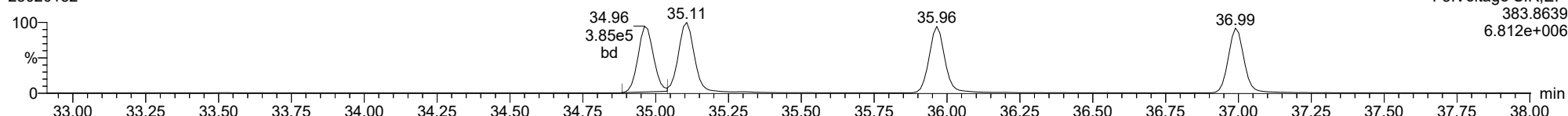
**123478-HxCDF**

23020132



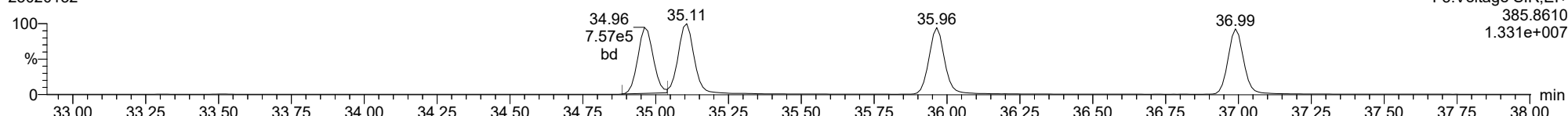
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23020132



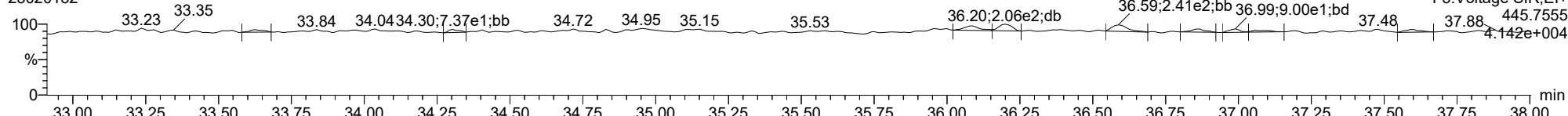
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23020132



**FUNCTION3 OCDPE**

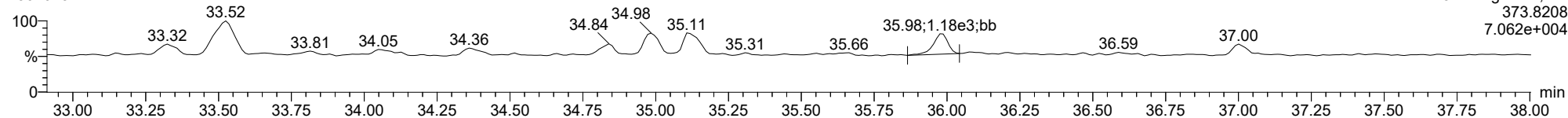
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

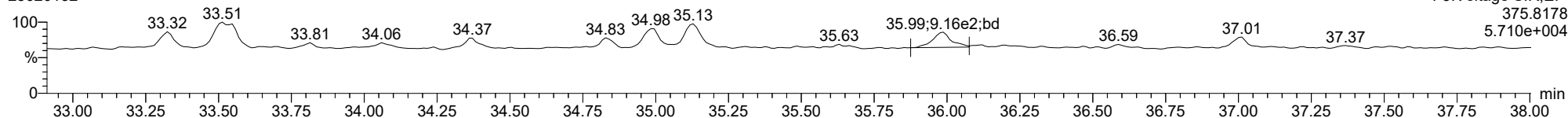
**234678-HxCDF**

23020132



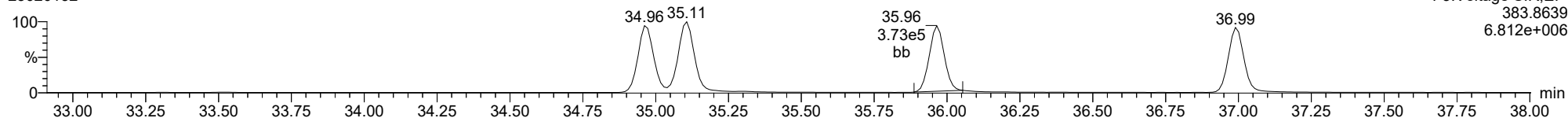
**234678-HxCDF**

23020132



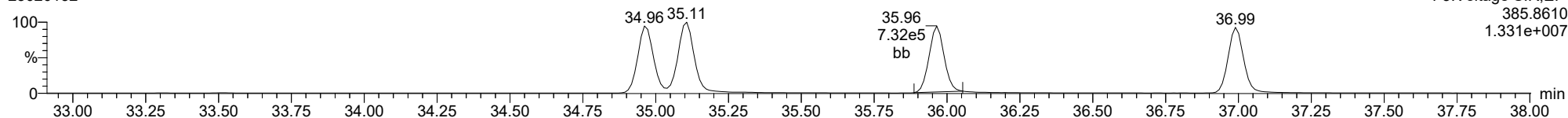
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23020132



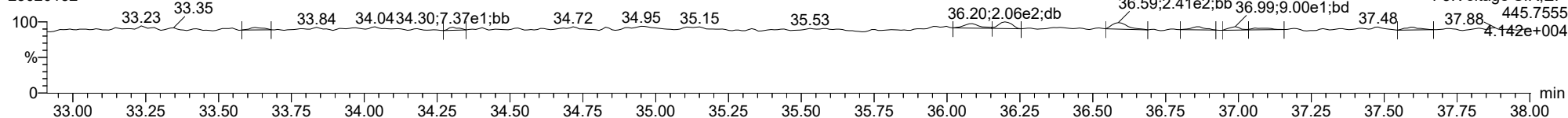
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23020132



**FUNCTION3 OCDPE**

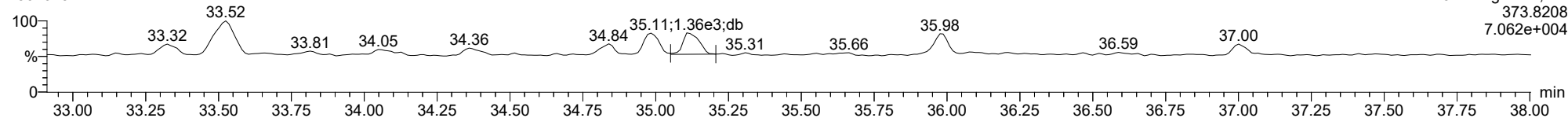
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ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

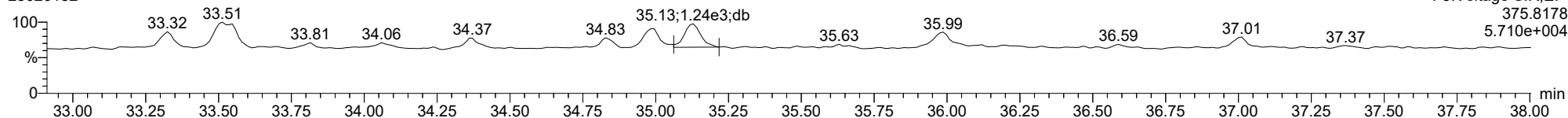
123678-HxCDF

23020132



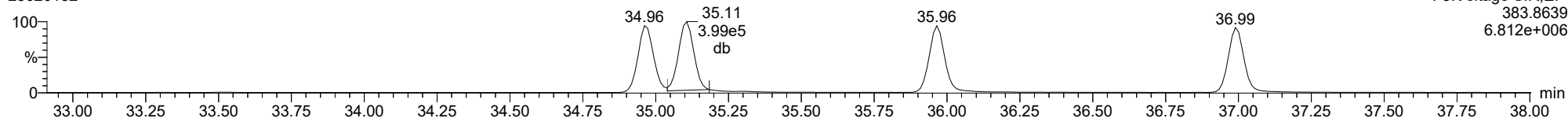
123678-HxCDF

23020132



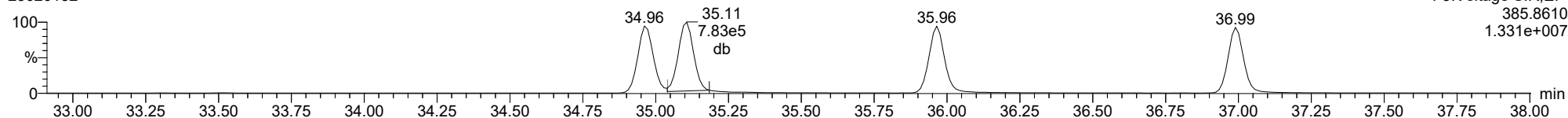
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23020132



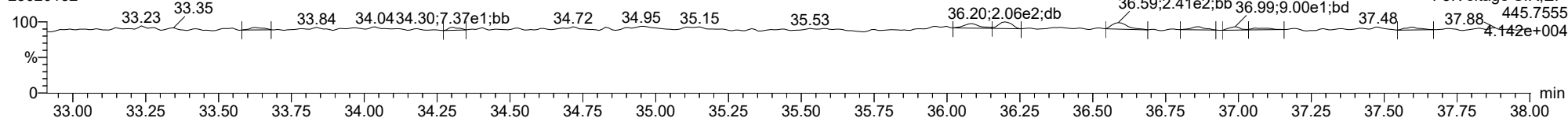
13C-123678-HxCDF

23020132



FUNCTION3 OCDPE

23020132

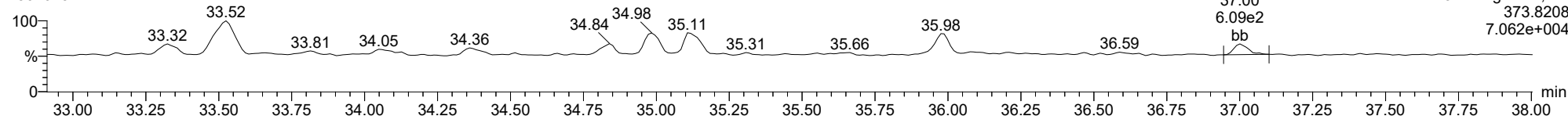




ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

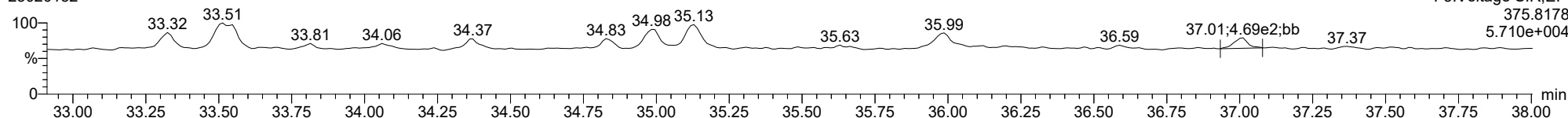
123789-HxCDF

23020132



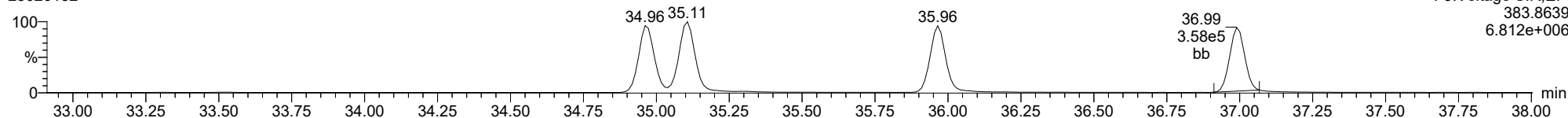
123789-HxCDF

23020132



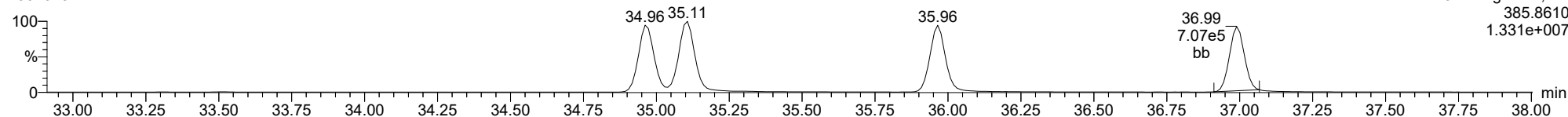
13C-123789-HxCDF

23020132



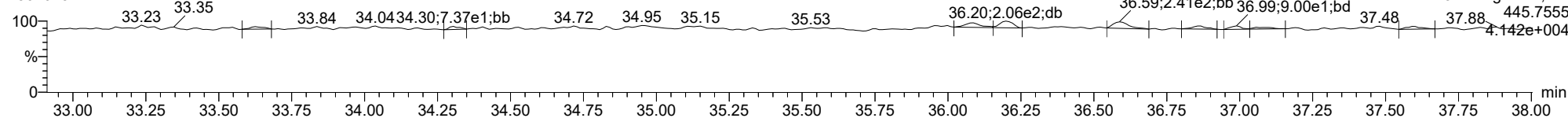
13C-123789-HxCDF

23020132



FUNCTION3 OCDPE

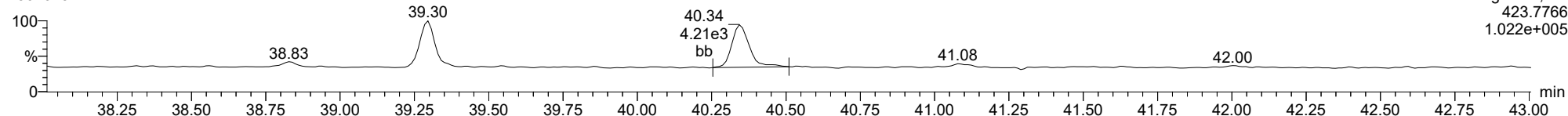
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ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

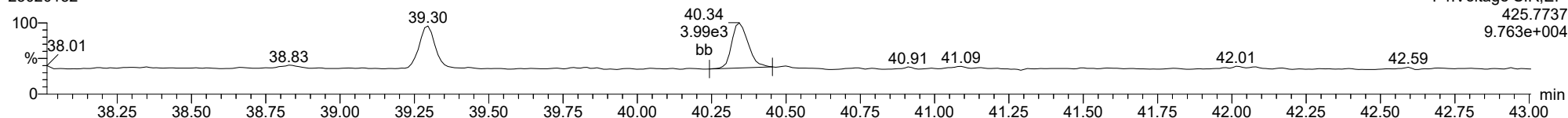
**1234678-HpCDD**

23020132



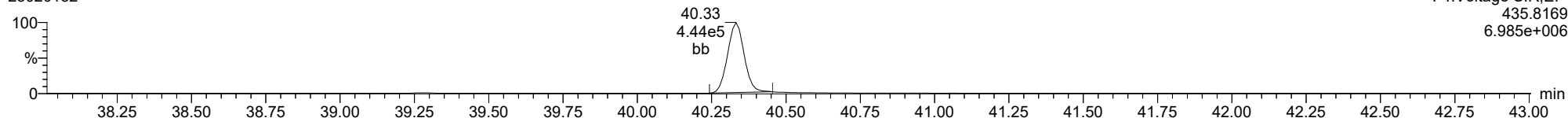
**1234678-HpCDD**

23020132



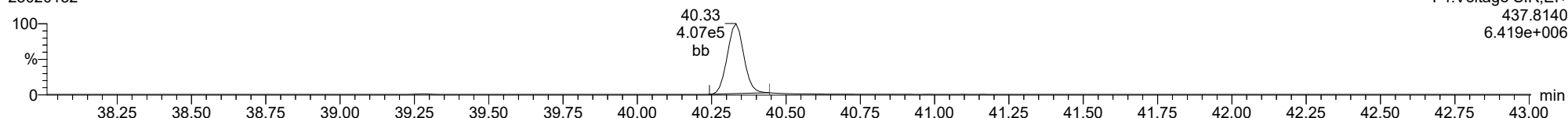
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23020132



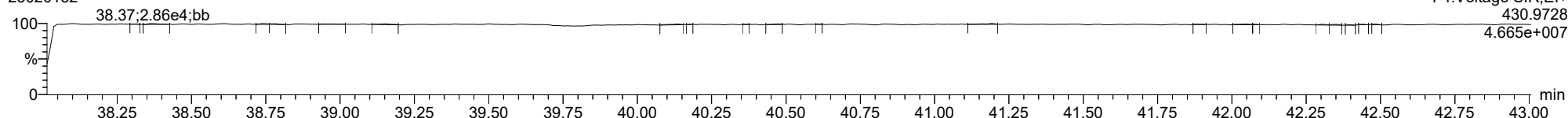
**13C-1234678-HpCDD**

23020132



**FUNCTION4 PFK**

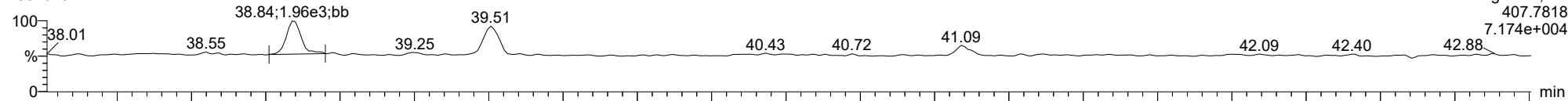
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

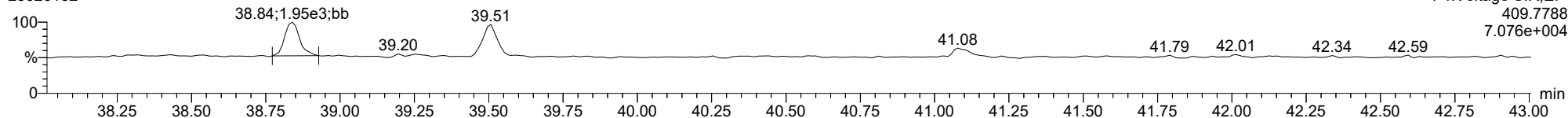
1234678-HpCDF

23020132



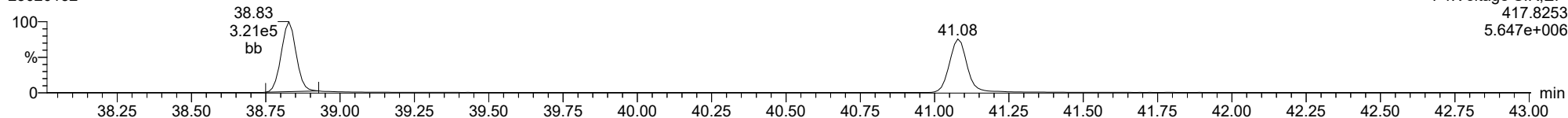
1234678-HpCDF

23020132



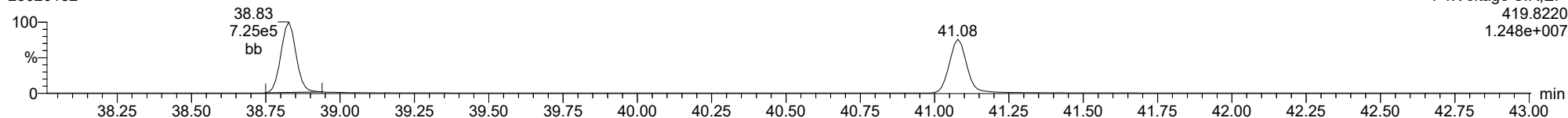
13C-1234678-HpCDF

23020132



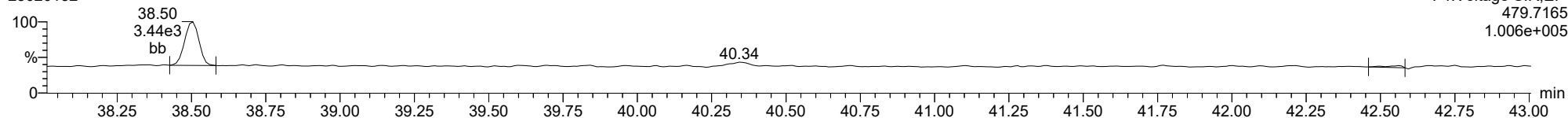
13C-1234678-HpCDF

23020132



FUNCTION4 NCDPE

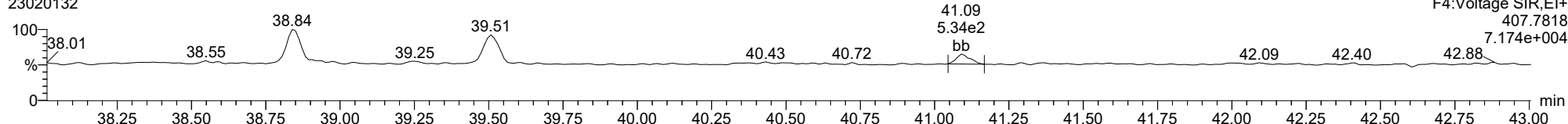
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

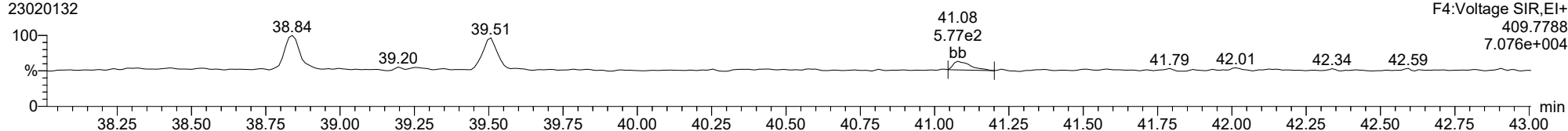
1234789-HpCDF

23020132



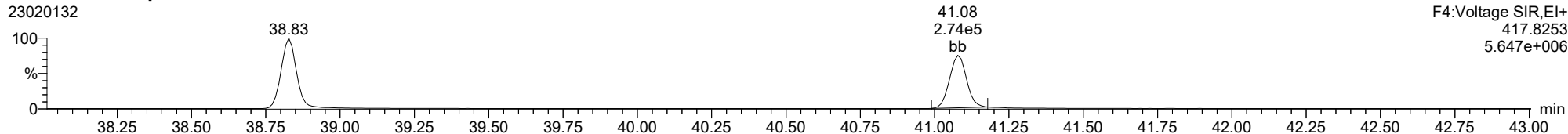
1234789-HpCDF

23020132



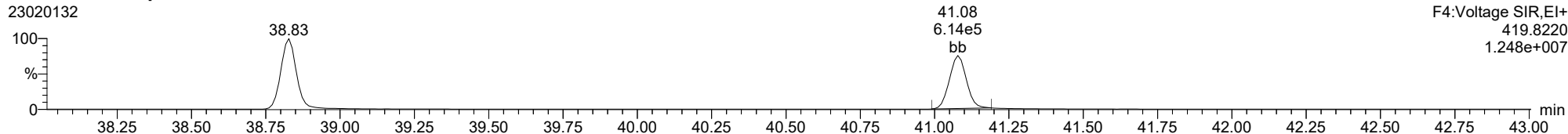
13C-1234789-HpCDF

23020132



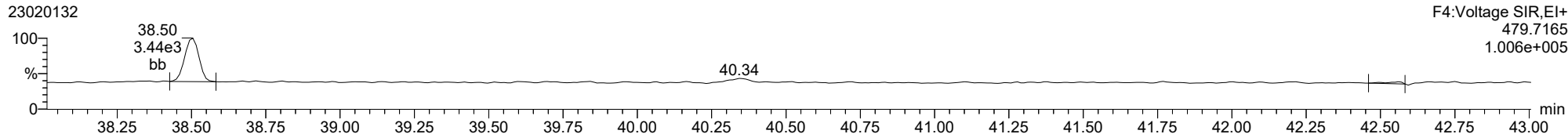
13C-1234789-HpCDF

23020132



FUNCTION4 NCDPE

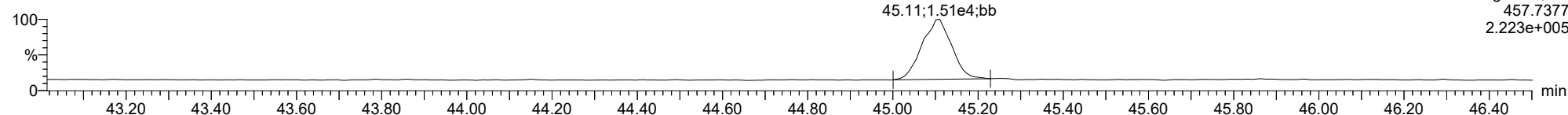
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

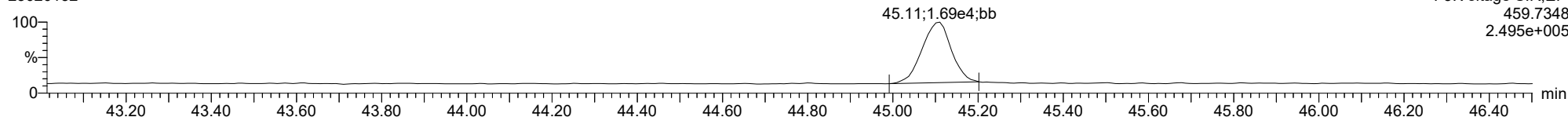
**OCDD**

23020132



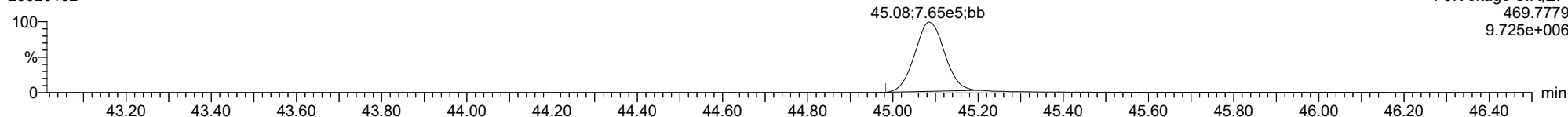
**OCDD**

23020132



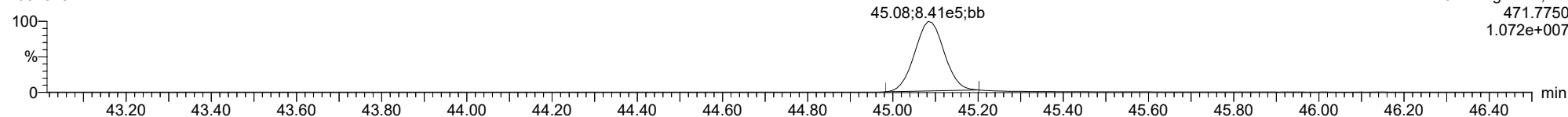
**13C-OCDD**

23020132



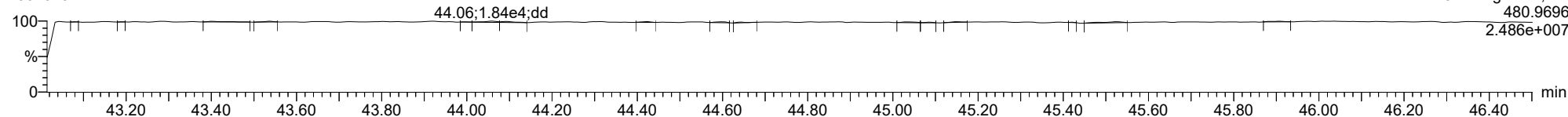
**13C-OCDD**

23020132

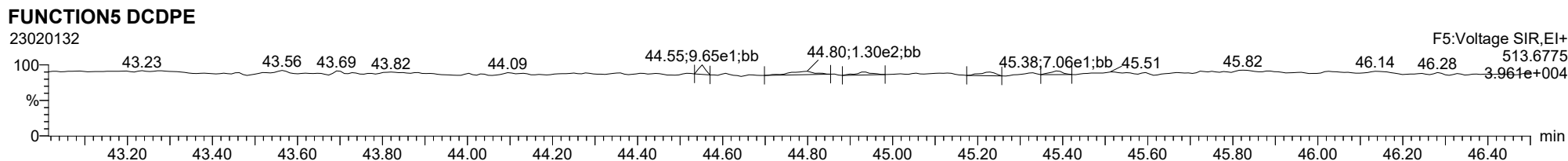
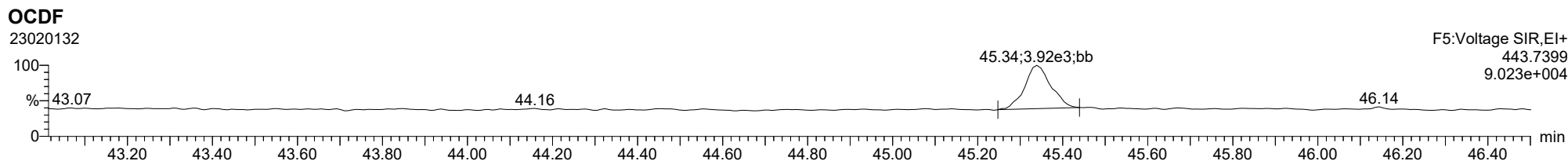
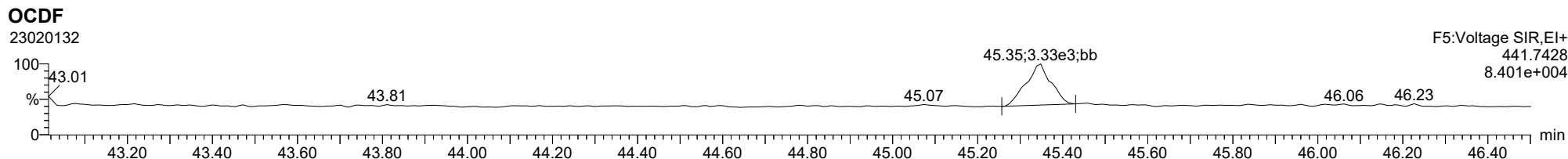


**FUNCTION5 PFK**

23020132



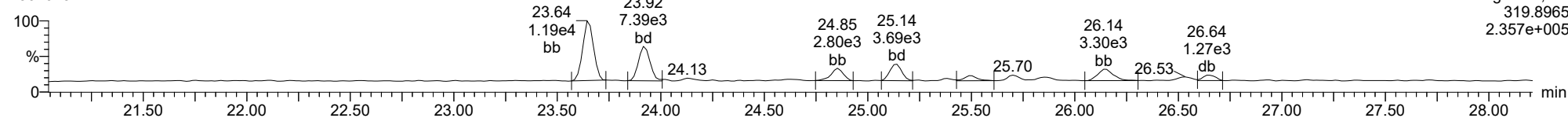
ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

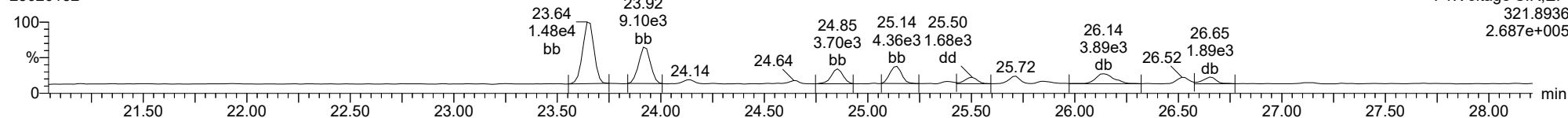
### Total-tetradiioxins

23020132



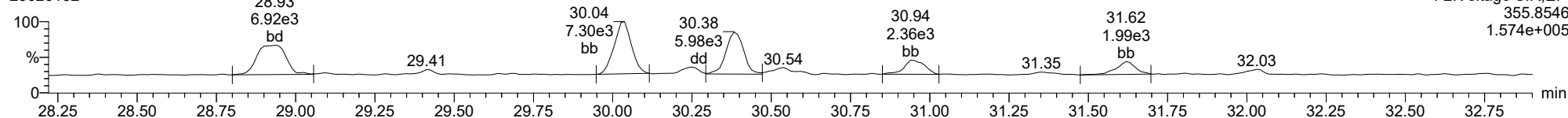
### Total-tetradiioxins

23020132



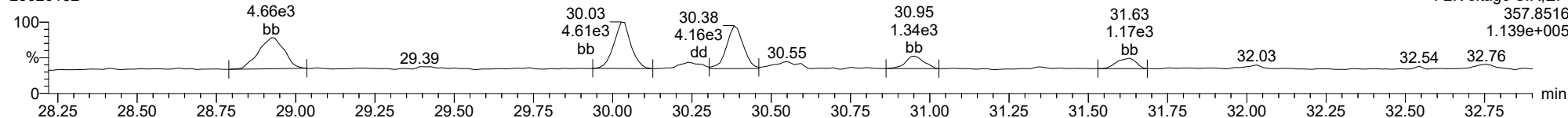
### Total-pentadiioxins

23020132



### Total-pentadiioxins

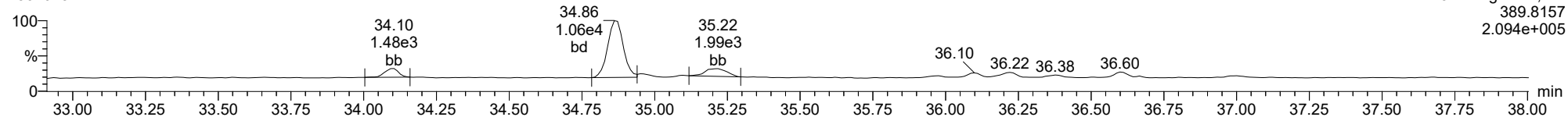
23020132



ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

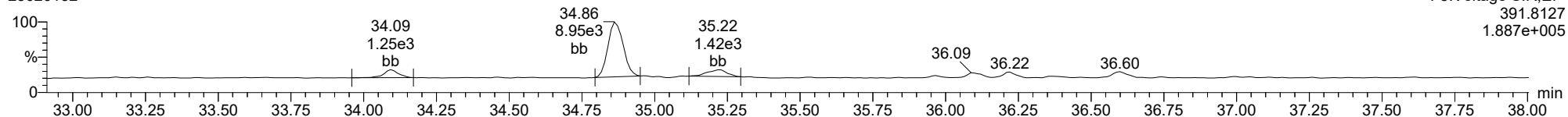
**Total-hexadioxins**

23020132



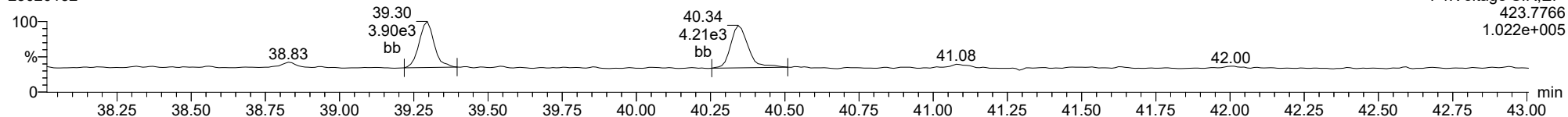
**Total-hexadioxins**

23020132



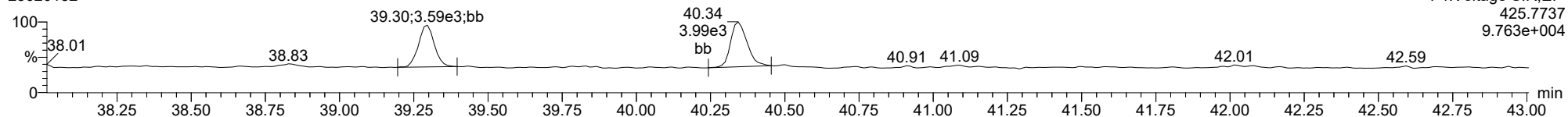
**Total-heptadioxins**

23020132



**Total-heptadioxins**

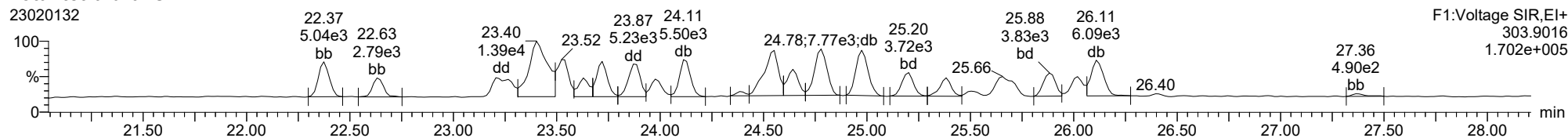
23020132



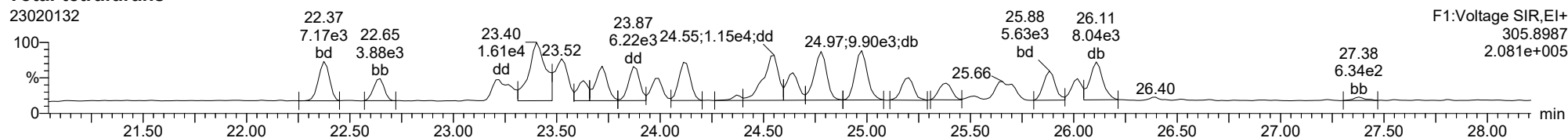


ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

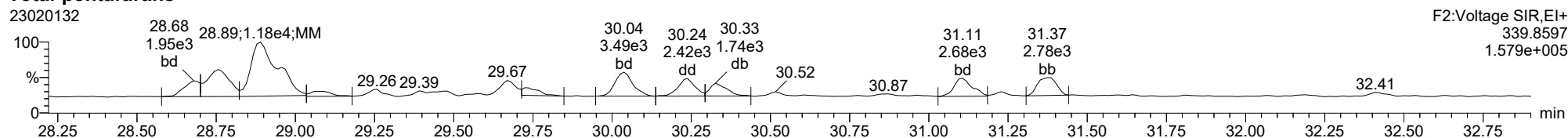
**Total-tetrafurans**



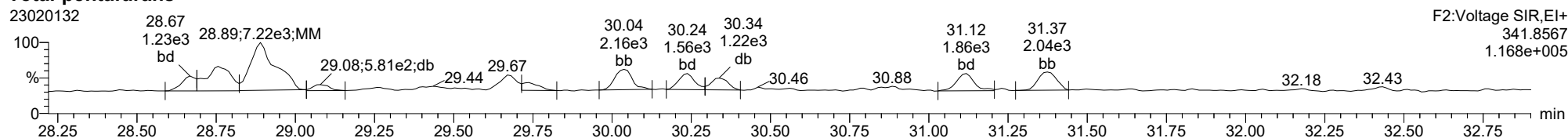
**Total-tetrafurans**



**Total-pentafurans**



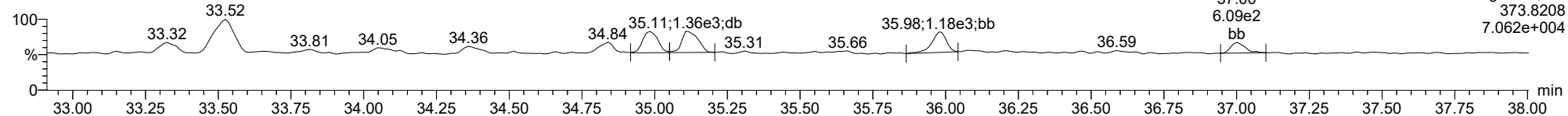
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ID: 22L0246-47, Name: 23020132, Date: 02-Feb-2023, Time: 14:44:44, Conditions: AUTOSPEC01, User: pk

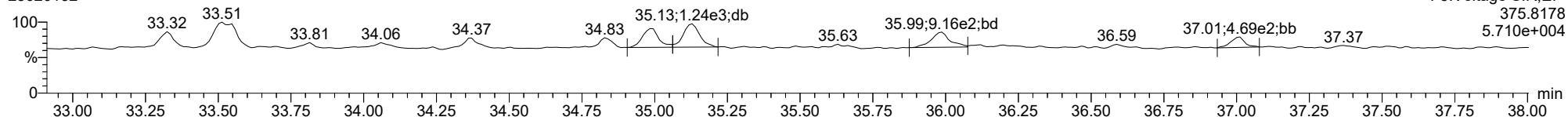
**Total-hexafurans**

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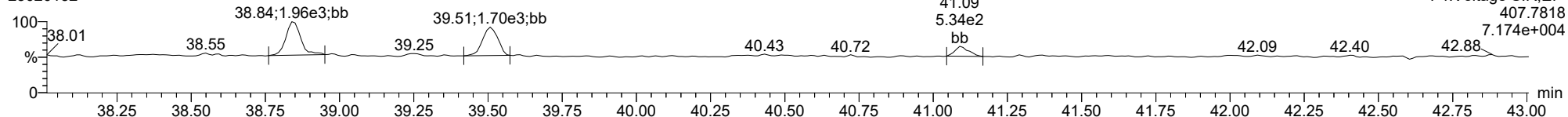
**Total-hexafurans**

23020132



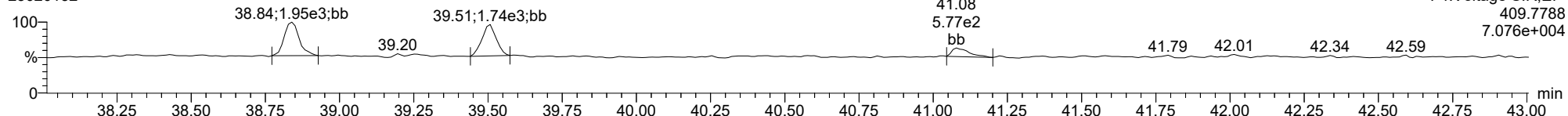
**Total-heptafurans**

23020132



**Total-heptafurans**

23020132





Form 1  
ORGANIC ANALYSIS DATA SHEET  
EPA 1613B  
Dioxins/Furans by HRGC/HRMS

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC  
 Project: AOC4 UR Phase 3  
 Matrix: Sediment Laboratory ID: 22L0246-48 A File ID: 23020133  
 Sampled: 12/09/22 11:44 Prepared: 12/19/22 15:18 Analyzed: 02/02/23 15:34  
 % Solids: 92.09 Preparation: EPA 1613 Initial/Final: 10.86 g Wet / 20 uL  
 Result Basis: Dry Sequence: SLA0009 Calibration: GB00010  
 Batch: BKL0419 Instrument: AUTOSPEC01 Column: RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1		0.655-0.886	0.089	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.396	0.655-0.886	0.087	1.00	0.185	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1		1.318-1.783	0.096	1.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	1.942	1.318-1.783	0.095	1.00	0.203	ng/kg	EMPC, J
40321-76-4	1,2,3,7,8-PeCDD	1	0.540	1.318-1.783	0.121	1.00	0.147	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.164	1.054-1.426	0.079	1.00	0.220	ng/kg	J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.429	1.054-1.426	0.070	1.00	0.224	ng/kg	EMPC, J, B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.339	1.054-1.426	0.074	1.00	0.220	ng/kg	J
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.139	1.054-1.426	0.088	1.00	0.198	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.077	1.054-1.426	0.098	1.00	0.242	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.264	1.054-1.426	0.092	1.00	0.280	ng/kg	J
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.888	1.054-1.426	0.097	1.00	0.284	ng/kg	EMPC, J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.904	0.893-1.208	0.073	1.00	0.677	ng/kg	J, B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.302	0.893-1.208	0.099	1.00	0.224	ng/kg	EMPC, J
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.974	0.893-1.208	0.097	2.50	1.29	ng/kg	J, B
39001-02-0	OCDF	1	0.842	0.757-1.024	0.161	2.50	2.10	ng/kg	J, B
3268-87-9	OCDD	1	0.934	0.757-1.024	0.138	10.0	8.41	ng/kg	J, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	0.810	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	0.521	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	1.59	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	2.33	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.585  
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.591



**Form 2**  
**ORGANIC ANALYSIS DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0246-48</u>
Sampled:	<u>12/09/22 11:44</u>	Prepared:	<u>12/19/22 15:18</u>
Solids Wt%:	<u>92.09</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLA0009</u>
Batch:	<u>BKL0419</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020133</u>
		Analyzed:	<u>02/02/23 15:34</u>
		Initial/Final:	<u>10.86 g / 20 uL</u>
		Calibration:	<u>GB00010</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.785	0.655-0.886	0.101	68.9	24 - 169 %	
13C12-2,3,7,8-TCDD		0.782	0.655-0.886	0.126	81.7	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.546	1.318-1.783	0.129	77.4	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.525	1.318-1.783	0.134	75.4	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.601	1.318-1.783	0.123	75.4	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.511	0.434-0.587	0.195	73.6	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.516	0.434-0.587	0.190	74.9	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.506	0.434-0.587	0.203	74.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.506	0.434-0.587	0.221	72.4	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.265	1.054-1.426	0.152	78.3	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.247	1.054-1.426	0.147	77.8	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.451	0.374-0.506	0.162	68.1	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.447	0.374-0.506	0.186	67.8	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.060	0.893-1.208	0.167	76.1	23 - 140 %	
13C12-OCDD		0.917	0.757-1.024	0.183	72.2	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.041	85.1	35 - 197 %	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:07:49 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
 Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.876		0.770	1150	1430								
12378-PeCDF					0.845		1.550	1166	1391								
23478-PeCDF	31.363	1.001	7.032e2	3.621e2	0.911	1.942	1.550	1166	1391	1.02e4	8.03e3	8.7	5.8	YES	bb	bd	0.102
123478-HxCDF	34.973	1.001	5.892e2	5.061e2	1.182	1.164	1.240	1145	917	8.68e3	8.70e3	7.6	9.5	NO	bd	bd	0.110
234678-HxCDF	35.976	1.001	6.340e2	4.736e2	1.229	1.339	1.240	1145	917	1.11e4	6.42e3	9.7	7.0	NO	bb	bb	0.110
123678-HxCDF	35.118	1.001	7.201e2	5.040e2	1.248	1.429	1.240	1145	917	1.08e4	7.60e3	9.4	8.3	YES	db	db	0.112
123789-HxCDF	37.001	1.001	4.561e2	4.003e2	1.187	1.139	1.240	1145	917	8.53e3	6.04e3	7.4	6.6	NO	bb	bb	0.099
1234678-HpCDF	38.839	1.001	1.483e3	1.640e3	1.204	0.904	1.050	977	912	2.29e4	2.79e4	23.4	30.6	NO	bb	bb	0.339
1234789-HpCDF	41.078	1.000	4.917e2	3.776e2	1.165	1.302	1.050	977	912	1.01e4	7.54e3	10.4	8.3	YES	MM	MM	0.112
OCDF	45.340	1.006	3.520e3	4.180e3	1.186	0.842	0.890	1227	1207	4.51e4	5.64e4	36.7	46.8	NO	bb	bb	1.050
2378-TCDD	26.517	1.001	3.046e2	7.683e2	1.236	0.396	0.770	1413	1120	4.30e3	1.03e4	3.0	9.2	YES	dd	bb	0.093
12378-PeCDD	31.619	1.001	2.005e2	3.711e2	1.087	0.540	1.550	1388	1008	4.62e3	6.60e3	3.3	6.5	YES	bb	bb	0.073
123478-HxCDD	36.087	1.000	4.905e2	4.552e2	0.987	1.077	1.240	1035	1059	6.84e3	8.14e3	6.6	7.7	NO	bd	bd	0.121
123678-HxCDD	36.188	1.000	6.493e2	5.138e2	1.021	1.264	1.240	1035	1059	9.97e3	9.20e3	9.6	8.7	NO	db	db	0.140
123789-HxCDD	36.589	1.011	5.290e2	5.954e2	0.985	0.888	1.240	1035	1059	1.02e4	9.07e3	9.8	8.6	YES	bb	bd	0.142
1234678-HpCDD	40.343	1.001	2.578e3	2.648e3	1.253	0.974	1.050	1007	1005	4.02e4	3.98e4	40.0	39.6	NO	MM	MM	0.646
OCDD	45.083	1.000	1.384e4	1.481e4	1.103	0.934	0.890	1026	910	1.79e5	1.86e5	174.5	204.7	NO	bb	bb	4.205
13C-2378-TCDF	25.851	1.006	5.577e5	7.106e5	1.768	0.785	0.770	2941	1919	8.68e6	1.10e7	2952.1	5706.6	NO	bb	bb	68.891
13C-12378-PeCDF	30.004	1.168	7.474e5	4.836e5	1.527	1.546	1.550	2162	3199	1.15e7	7.51e6	5296.5	2348.1	NO	bb	bb	77.422
13C-23478-PeCDF	31.341	1.220	6.952e5	4.560e5	1.466	1.525	1.550	2162	3199	1.07e7	6.89e6	4942.2	2154.2	NO	bb	bb	75.405
13C-123478-HxCDF	34.951	0.956	2.845e5	5.567e5	1.054	0.511	0.510	2188	3742	4.50e6	8.90e6	2054.6	2378.5	NO	bd	bd	73.580
13C-123678-HxCDF	35.096	0.960	2.988e5	5.788e5	1.080	0.516	0.510	2188	3742	4.84e6	9.38e6	2213.3	2506.1	NO	db	db	74.897
13C-234678-HxCDF	35.953	0.983	2.757e5	5.450e5	1.014	0.506	0.510	2188	3742	4.58e6	8.98e6	2091.1	2401.0	NO	bb	bb	74.576
13C-123789-HxCDF	36.979	1.011	2.450e5	4.842e5	0.928	0.506	0.510	2188	3742	3.98e6	7.89e6	1817.2	2109.7	NO	bb	bb	72.425
13C-1234678-HpCDF	38.817	1.062	2.380e5	5.280e5	1.036	0.451	0.440	2171	2683	3.99e6	8.82e6	1839.1	3286.9	NO	bb	bb	68.139
13C-1234789-HpCDF	41.067	1.123	2.058e5	4.599e5	0.905	0.447	0.440	2171	2683	3.04e6	6.91e6	1398.3	2577.1	NO	bb	bb	67.791
13C-1234-TCDD	25.685	0.000	4.625e5	5.787e5	1.000	0.799	0.770	2450	1334	7.26e6	9.10e6	2961.4	6822.7	NO	bb	bb	100.000
13C-2378-TCDD	26.486	1.031	4.117e5	5.263e5	1.103	0.782	0.770	2450	1334	6.18e6	8.06e6	2523.7	6040.7	NO	bb	bb	81.671
13C-12378-PeCDD	31.597	1.230	4.418e5	2.759e5	0.914	1.601	1.550	1681	1372	6.71e6	4.24e6	3990.2	3092.8	NO	bb	bb	75.394
13C-123478-HxCDD	36.076	0.987	4.427e5	3.500e5	0.933	1.265	1.240	1666	2422	7.25e6	5.76e6	4350.1	2376.9	NO	bd	bd	78.315
13C-123678-HxCDD	36.188	0.990	4.521e5	3.627e5	0.965	1.247	1.240	1666	2422	7.43e6	5.93e6	4459.7	2446.8	NO	db	db	77.850
13C-1234678-HpCDD	40.321	1.103	3.321e5	3.133e5	0.782	1.060	1.050	1854	1915	5.10e6	4.74e6	2750.5	2474.0	NO	bb	bb	76.073
13C-OCDD	45.074	1.233	5.911e5	6.446e5	0.788	0.917	0.890	2195	1960	7.32e6	7.93e6	3334.1	4045.4	NO	bb	bb	144.491
13C-123789-HxCDD	36.566	0.000	6.015e5	4.835e5	1.000	1.244	1.240	1666	2422	9.60e6	7.76e6	5761.3	3202.1	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	4.369e5		1.233			1390		6.67e6		4803.3			bb		34.022

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:07:49 Pacific Standard Time

ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	1150	1430								
1289-TCDF					0.858		0.770	1150	1430								
13468-PECDF					1.013		1.550	836	1251								
12389-PECDF					0.844		1.550	1166	1391								
123468-HXCDF	33.302	0.953	2.692e2	2.593e2	1.197	1.038	1.240	1145	917	4.53e3	4.20e3	4.0	4.6	YES	bb	bb	0.052
1368-TCDD					1.084		0.770	1413	1120								
1289-TCDD					0.975		0.770	1413	1120								
12479-PECDD	28.879	0.914	9.545e1	2.262e2	1.837	0.422	1.550	1388	1008	3.32e3	3.57e3	2.4	3.5	YES	bd	bb	0.024
12389-PECDD					1.252		1.550	1388	1008								
124679-HXCDD	34.104	0.945	5.672e2	3.100e2	1.033	1.830	1.240	1035	1059	9.70e3	6.30e3	9.4	6.0	YES	bb	bb	0.107
1234679-HPCDD	39.285	0.974	2.330e3	1.958e3	1.286	1.190	1.050	1007	1005	4.25e4	3.17e4	42.3	31.6	NO	bb	bb	0.517
Total-tetrafurans			0.000e0		0.933			1150		0.00e0							
Total-penta1			0.000e0					836		0.00e0							
Total-pentafurans			0.000e0		0.866			1166		0.00e0							
Total-hexafurans			2.172e3		1.208			1145		3.65e4							0.405
Total-heptafurans			3.500e3		1.185			977		5.39e4							0.796
Total-Furans			9.192e3		1.067			1150		1.36e5							2.252
Total-tetradoxins			0.000e0		1.099			1413		0.00e0							
Total-pentadoxins			0.000e0		1.392			1388		0.00e0							
Total-hexadoxins			1.140e3		1.007			1035		1.68e4							0.261
Total-heptadoxins			4.908e3		1.269			1007		8.28e4							1.163
Total-Dioxins			1.988e4		1.165			1413		2.79e5							5.628
Total-TEQ			2.908e4					1413		4.14e5							7.880
FUNCTION1 PFK			0.000e0					856167		0.00e0							
FUNCTION2 PFK			1.542e5					596270		5.10e6							0.000
FUNCTION3 PFK			4.112e7					514653		2.68e7							0.000
FUNCTION4 PFK			0.000e0					265961		0.00e0							
FUNCTION5 PFK			6.020e4					221378		2.45e6							
FUNCTION1 HXCD...			1.479e3					1039		2.71e4							0.000
FUNCTION1 HPCD...			1.454e3					1339		2.59e4							0.000
FUNCTION2 HPCD...			1.119e3					1335		2.57e4							0.000
FUNCTION3 OCDPE			1.044e3					823		1.82e4							0.000
FUNCTION4 NCDPE			7.373e2					1136		1.49e4							0.000
FUNCTION5 DCDPE			6.904e2					809		1.36e4							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:49 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.97	5.892e2	5.061e2	1.182	1.16	1.24	7.6	YES	NO	bd	bd	0.110
2	Total-hexafurans	34.36	4.929e2	3.573e2	1.208	1.38	1.24	7.2	YES	NO	bb	bb	0.086
3	123789-HxCDF	37.00	4.561e2	4.003e2	1.187	1.14	1.24	7.4	YES	NO	bb	bb	0.099
4	234678-HxCDF	35.98	6.340e2	4.736e2	1.229	1.34	1.24	9.7	YES	NO	bb	bb	0.110

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.51	2.016e3	1.863e3	1.185	1.08	1.05	31.8	YES	NO	bb	bb	0.457
2	1234678-HpCDF	38.84	1.483e3	1.640e3	1.204	0.90	1.05	23.4	YES	NO	bb	bb	0.339

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:49 Pacific Standard Time

ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.97	5.892e2	5.061e2	1.182	1.16	1.24	7.6	YES	NO	bd	bd	0.110
2	Total-hexafurans	34.36	4.929e2	3.573e2	1.208	1.38	1.24	7.2	YES	NO	bb	bb	0.086
3	123789-HxCDF	37.00	4.561e2	4.003e2	1.187	1.14	1.24	7.4	YES	NO	bb	bb	0.099
4	234678-HxCDF	35.98	6.340e2	4.736e2	1.229	1.34	1.24	9.7	YES	NO	bb	bb	0.110
5	OCDF	45.34	3.520e3	4.180e3	1.186	0.84	0.89	36.7	YES	NO	bb	bb	1.050
6	Total-heptafurans	39.51	2.016e3	1.863e3	1.185	1.08	1.05	31.8	YES	NO	bb	bb	0.457
7	1234678-HpCDF	38.84	1.483e3	1.640e3	1.204	0.90	1.05	23.4	YES	NO	bb	bb	0.339

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.19	6.493e2	5.138e2	1.021	1.26	1.24	9.6	YES	NO	db	db	0.140
2	123478-HxCDD	36.09	4.905e2	4.552e2	0.987	1.08	1.24	6.6	YES	NO	bd	bd	0.121

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.34	2.578e3	2.648e3	1.253	0.97	1.05	40.0	YES	NO	MM	MM	0.646
2	1234679-HPCDD	39.28	2.330e3	1.958e3	1.286	1.19	1.05	42.3	YES	NO	bb	bb	0.517

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.19	6.493e2	5.138e2	1.021	1.26	1.24	9.6	YES	NO	db	db	0.140
2	123478-HxCDD	36.09	4.905e2	4.552e2	0.987	1.08	1.24	6.6	YES	NO	bd	bd	0.121
3	1234678-HpCDD	40.34	2.578e3	2.648e3	1.253	0.97	1.05	40.0	YES	NO	MM	MM	0.646
4	1234679-HPCDD	39.28	2.330e3	1.958e3	1.286	1.19	1.05	42.3	YES	NO	bb	bb	0.517
5	OCDD	45.08	1.384e4	1.481e4	1.103	0.93	0.89	174.5	YES	NO	bb	bb	4.205



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:49 Pacific Standard Time

**ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk****TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.97	5.892e2	5.061e2	1.182	1.16	1.24	7.6	YES	NO	bd	bd	0.110
2	Total-hexafurans	34.36	4.929e2	3.573e2	1.208	1.38	1.24	7.2	YES	NO	bb	bb	0.086
3	123789-HxCDF	37.00	4.561e2	4.003e2	1.187	1.14	1.24	7.4	YES	NO	bb	bb	0.099
4	234678-HxCDF	35.98	6.340e2	4.736e2	1.229	1.34	1.24	9.7	YES	NO	bb	bb	0.110
5	OCDF	45.34	3.520e3	4.180e3	1.186	0.84	0.89	36.7	YES	NO	bb	bb	1.050
6	Total-heptafurans	39.51	2.016e3	1.863e3	1.185	1.08	1.05	31.8	YES	NO	bb	bb	0.457
7	1234678-HpCDF	38.84	1.483e3	1.640e3	1.204	0.90	1.05	23.4	YES	NO	bb	bb	0.339
8	123678-HxCDD	36.19	6.493e2	5.138e2	1.021	1.26	1.24	9.6	YES	NO	db	db	0.140
9	123478-HxCDD	36.09	4.905e2	4.552e2	0.987	1.08	1.24	6.6	YES	NO	bd	bd	0.121
10	1234678-HpCDD	40.34	2.578e3	2.648e3	1.253	0.97	1.05	40.0	YES	NO	MM	MM	0.646
11	1234679-HPCDD	39.28	2.330e3	1.958e3	1.286	1.19	1.05	42.3	YES	NO	bb	bb	0.517
12	OCDD	45.08	1.384e4	1.481e4	1.103	0.93	0.89	174.5	YES	NO	bb	bb	4.205

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.19	8.874e3					0.8	NO		bb		0.000
2	FUNCTION2 PFK	31.99	9.532e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	31.69	3.907e4					1.7	NO		bb		0.000
4	FUNCTION2 PFK	31.46	1.407e4					1.0	NO		bb		0.000
5	FUNCTION2 PFK	30.56	4.470e4					1.7	NO		bb		0.000
6	FUNCTION2 PFK	29.69	2.838e4					1.6	NO		bb		0.000
7	FUNCTION2 PFK	29.07	9.532e3					0.8	NO		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.50	5.181e6					3.8	YES		bb		0.000
2	FUNCTION3 PFK	36.10	7.410e6					14.4	YES		bb		0.000
3	FUNCTION3 PFK	33.75	2.853e7					33.8	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:07:49 Pacific Standard Time

ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.27	3.581e3					0.8	NO		bb		
2	FUNCTION5 PFK	46.21	9.659e2					0.5	NO		bb		
3	FUNCTION5 PFK	46.09	6.397e3					1.0	NO		bb		
4	FUNCTION5 PFK	45.49	4.793e3					1.1	NO		bb		
5	FUNCTION5 PFK	45.20	6.941e3					1.3	NO		bb		
6	FUNCTION5 PFK	44.62	2.265e3					0.7	NO		bb		
7	FUNCTION5 PFK	44.48	1.690e3					0.6	NO		bb		
8	FUNCTION5 PFK	43.81	9.973e3					1.3	NO		db		
9	FUNCTION5 PFK	43.74	1.129e4					1.9	NO		bd		
10	FUNCTION5 PFK	43.70	3.291e3					1.0	NO		bb		
11	FUNCTION5 PFK	43.52	9.017e3					0.8	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	22.99	7.741e1					1.0	NO		bb		0.000
2	FUNCTION1 HXCD...	22.43	1.046e2					1.6	NO		bb		0.000
3	FUNCTION1 HXCD...	21.54	1.264e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	28.07	1.112e2					2.0	NO		db		0.000
5	FUNCTION1 HXCD...	27.95	1.398e2					1.4	NO		bd		0.000
6	FUNCTION1 HXCD...	27.77	1.644e2					1.7	NO		bb		0.000
7	FUNCTION1 HXCD...	27.33	1.179e2					2.6	NO		bb		0.000
8	FUNCTION1 HXCD...	26.59	1.231e2					3.5	YES		bb		0.000
9	FUNCTION1 HXCD...	25.70	8.072e1					1.4	NO		bb		0.000
10	FUNCTION1 HXCD...	24.51	1.317e2					1.6	NO		bb		0.000
11	FUNCTION1 HXCD...	23.89	9.057e1					1.7	NO		bb		0.000
12	FUNCTION1 HXCD...	23.54	1.029e2					2.3	NO		bb		0.000
13	FUNCTION1 HXCD...	23.21	1.078e2					3.1	YES		bb		0.000

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**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	23.37	1.205e2					2.2	NO		bd		0.000
2	FUNCTION1 HPCD...	22.27	9.175e1					1.2	NO		bb		0.000
3	FUNCTION1 HPCD...	22.15	9.083e1					1.1	NO		bb		0.000
4	FUNCTION1 HPCD...	21.68	1.137e2					1.8	NO		db		0.000
5	FUNCTION1 HPCD...	21.60	8.537e1					1.7	NO		bd		0.000
6	FUNCTION1 HPCD...	27.17	9.883e1					1.6	NO		bb		0.000
7	FUNCTION1 HPCD...	26.47	3.101e2					2.2	NO		bb		0.000
8	FUNCTION1 HPCD...	25.72	2.013e2					2.6	NO		db		0.000
9	FUNCTION1 HPCD...	25.61	1.026e2					1.2	NO		bd		0.000
10	FUNCTION1 HPCD...	24.26	7.990e1					1.4	NO		bb		0.000
11	FUNCTION1 HPCD...	23.42	1.595e2					2.2	NO		db		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.52	1.629e2					1.8	NO		db		0.000
2	FUNCTION2 HPCD...	32.42	1.120e2					2.2	NO		bd		0.000
3	FUNCTION2 HPCD...	32.06	8.750e1					2.2	NO		bb		0.000
4	FUNCTION2 HPCD...	31.91	1.279e2					1.8	NO		bb		0.000
5	FUNCTION2 HPCD...	31.62	2.020e2					3.4	YES		bb		0.000
6	FUNCTION2 HPCD...	30.05	8.302e1					1.8	NO		bb		0.000
7	FUNCTION2 HPCD...	29.67	1.455e2					2.6	NO		bb		0.000
8	FUNCTION2 HPCD...	28.58	9.230e1					1.6	NO		bb		0.000
9	FUNCTION2 HPCD...	28.28	1.061e2					1.8	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.86	1.131e2					1.8	NO		bb		0.000
2	FUNCTION3 OCDPE	36.43	1.185e2					4.1	YES		bb		0.000
3	FUNCTION3 OCDPE	36.20	3.408e2					4.9	YES		db		0.000
4	FUNCTION3 OCDPE	36.08	1.886e2					3.7	YES		bd		0.000
5	FUNCTION3 OCDPE	35.93	1.024e2					3.0	NO		bb		0.000
6	FUNCTION3 OCDPE	35.13	8.946e1					2.5	NO		bb		0.000
7	FUNCTION3 OCDPE	32.96	9.065e1					2.2	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

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**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.32	8.724e1					2.0	NO		bb		0.000
2	FUNCTION4 NCDPE	40.18	7.839e1					1.7	NO		bb		0.000
3	FUNCTION4 NCDPE	40.02	8.738e1					1.0	NO		bb		0.000
4	FUNCTION4 NCDPE	38.53	7.551e1					3.0	YES		bb		0.000
5	FUNCTION4 NCDPE	38.20	1.108e2					2.5	NO		db		0.000
6	FUNCTION4 NCDPE	38.13	2.979e2					3.0	YES		bd		0.000

**ETHERS6**

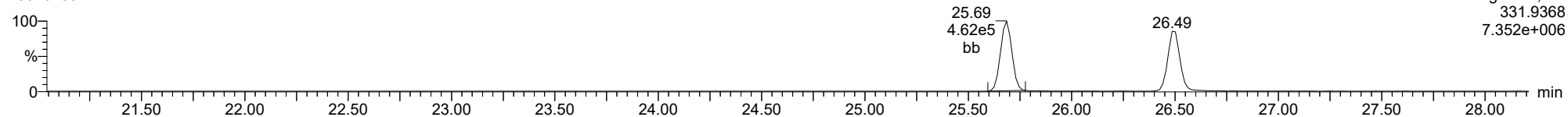
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1	FUNCTION5 DCDPE	46.42	3.172e2					6.9	YES		bb		0.000
2	FUNCTION5 DCDPE	46.36	3.026e2					6.5	YES		bb		0.000
3	FUNCTION5 DCDPE	43.41	7.063e1					3.4	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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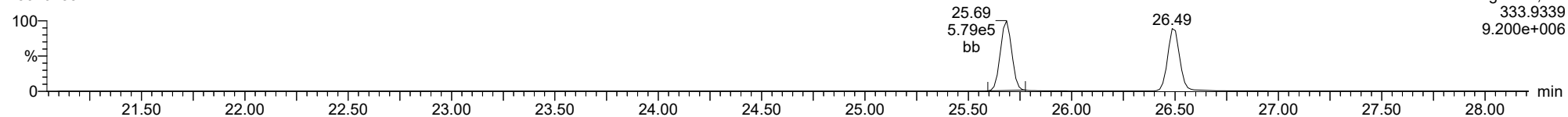
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23020133



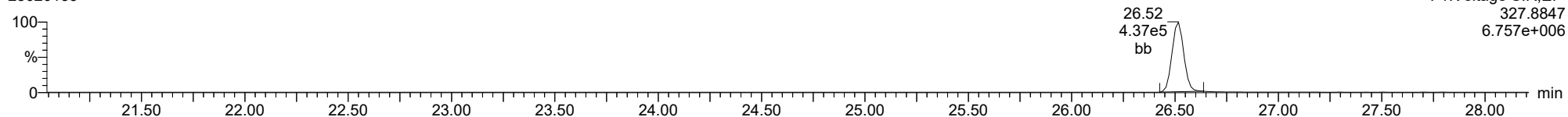
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23020133



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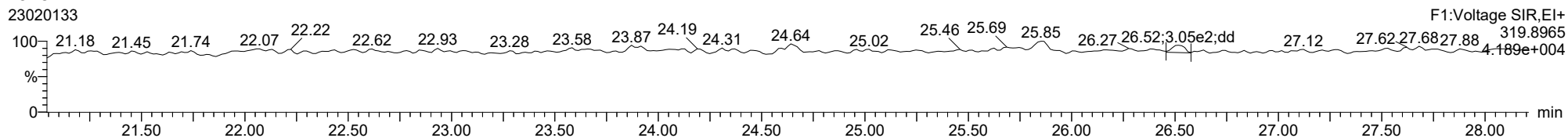
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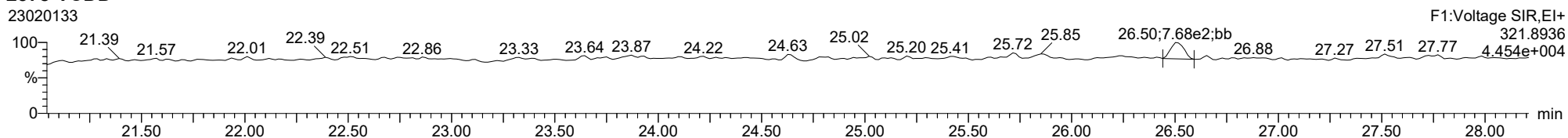
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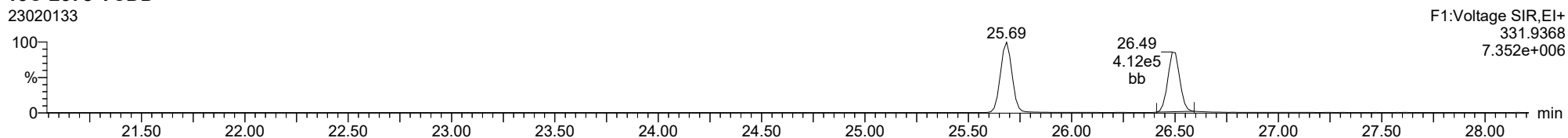
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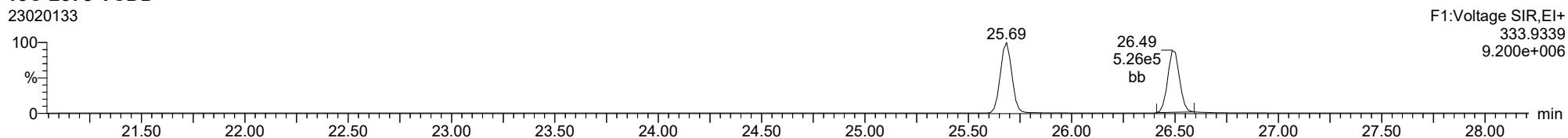
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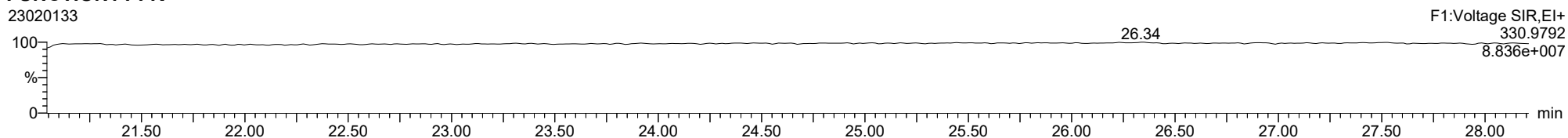
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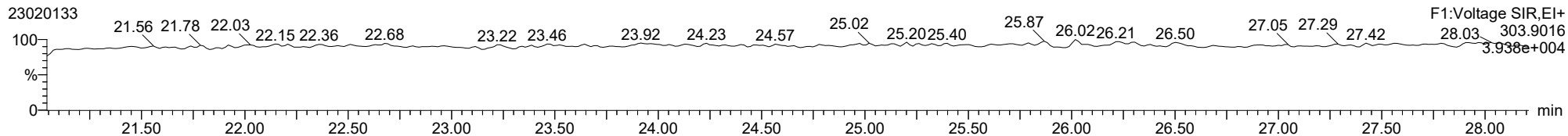
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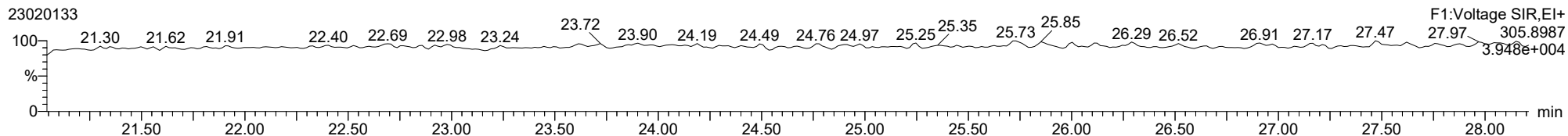


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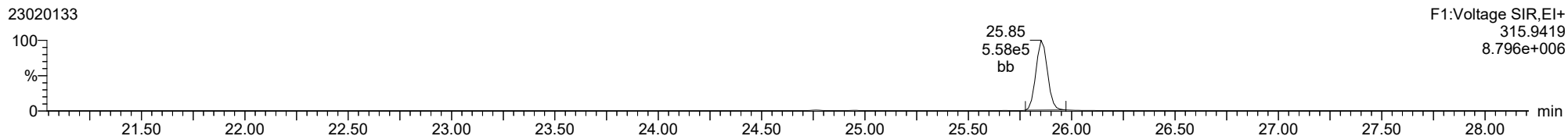
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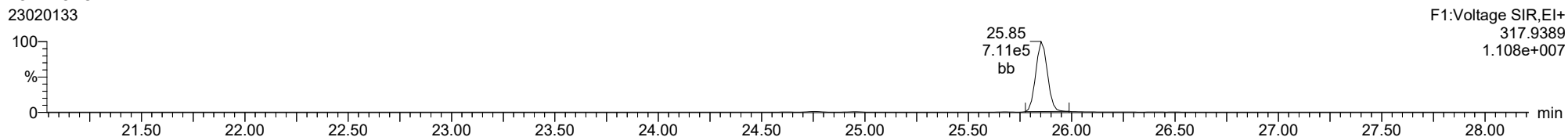
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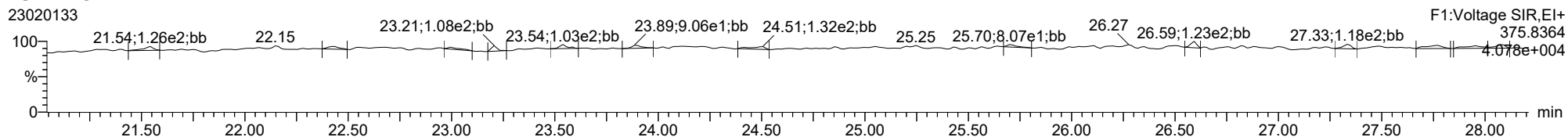
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**13C-2378-TCDF**



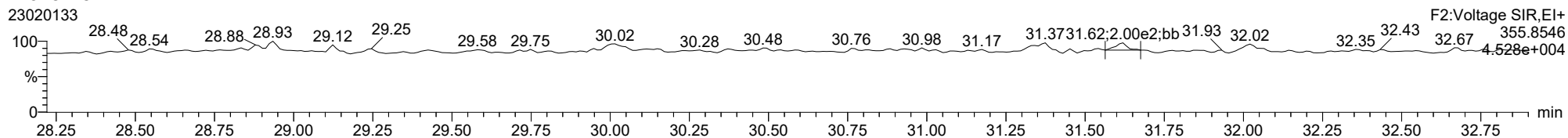
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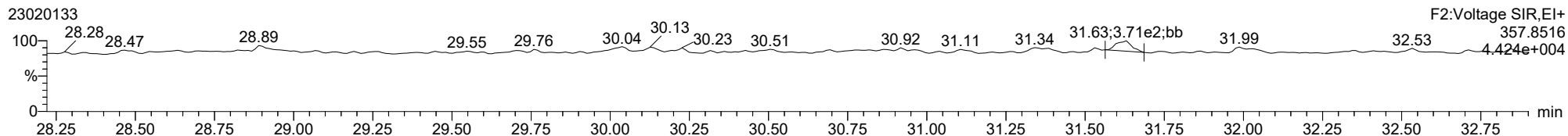
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23020133



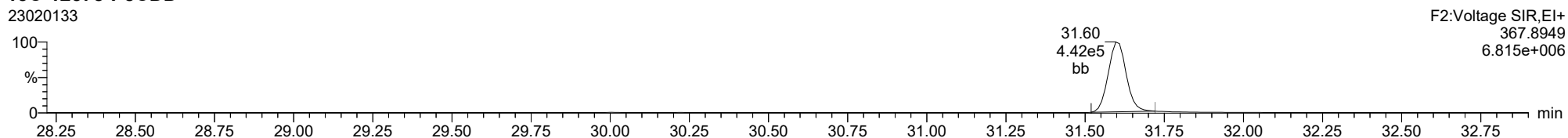
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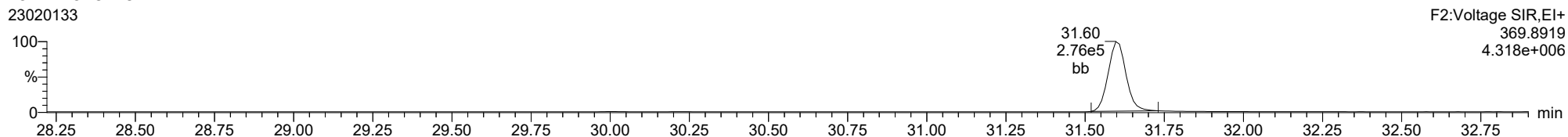
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23020133



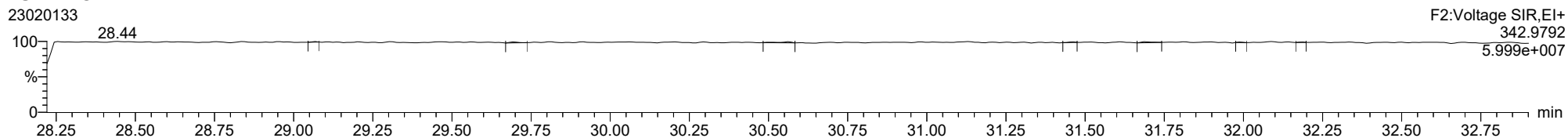
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23020133



**FUNCTION2 PFK**

23020133

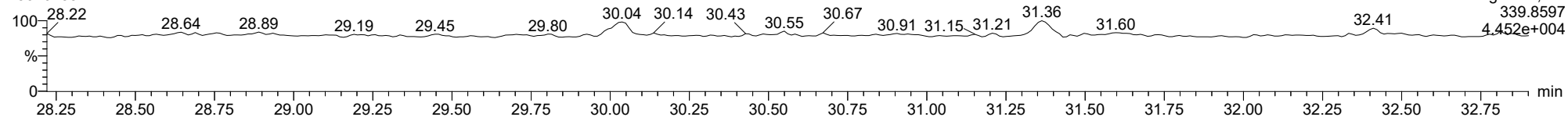




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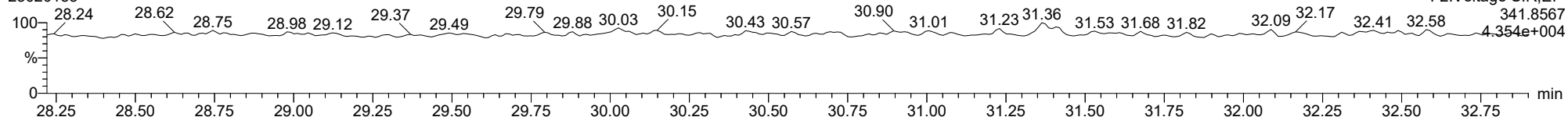
12378-PeCDF

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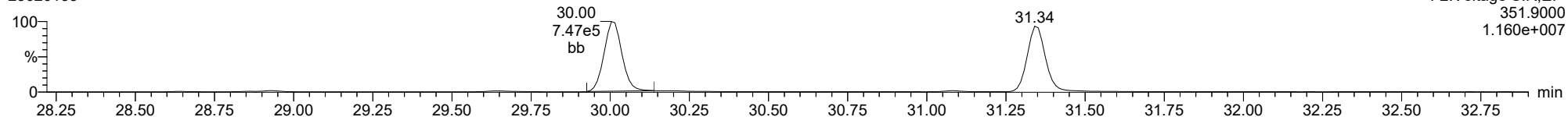
12378-PeCDF

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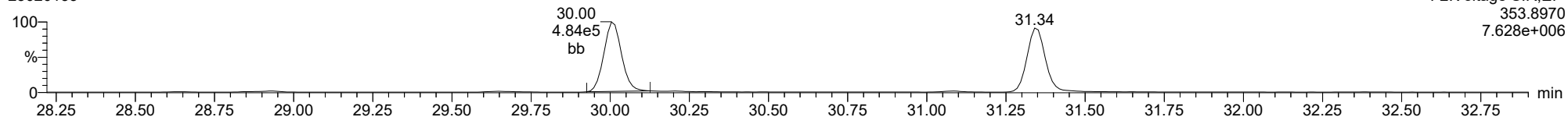
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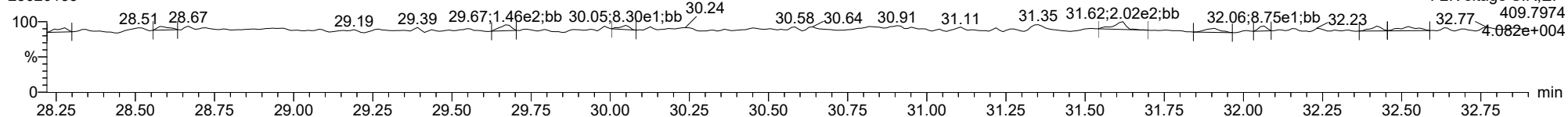
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FUNCTION2 HPCDPE

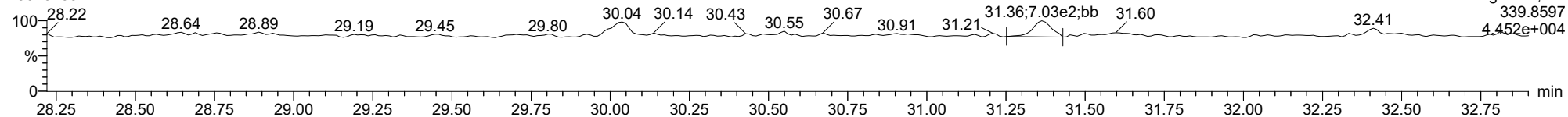
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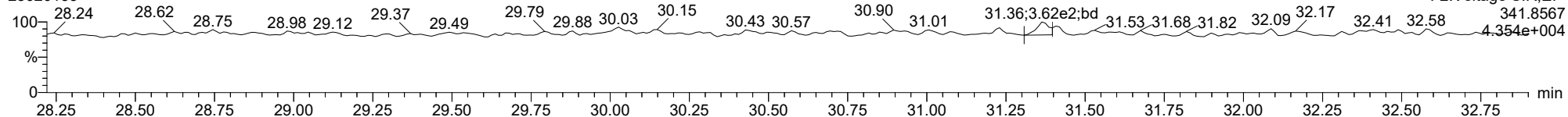
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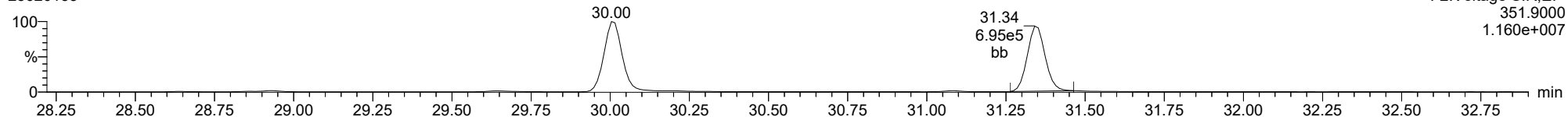
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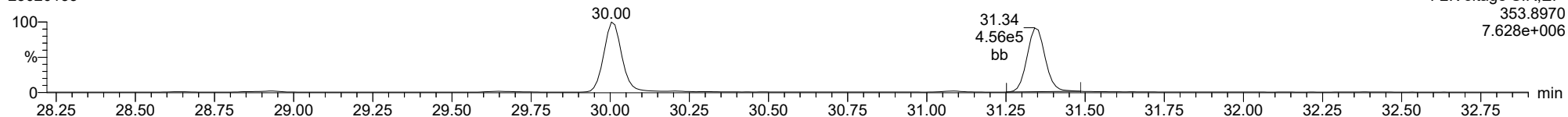
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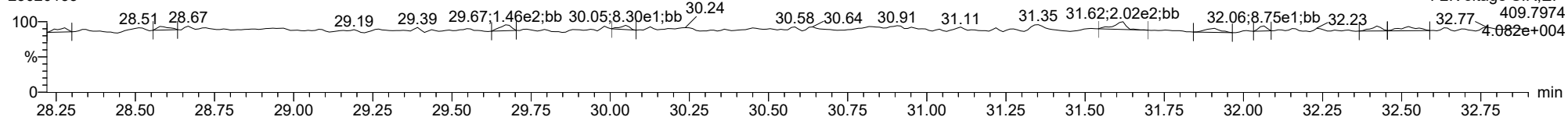
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**FUNCTION2 HPCDPE**

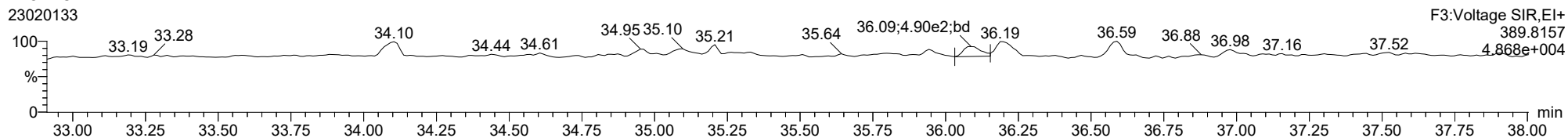
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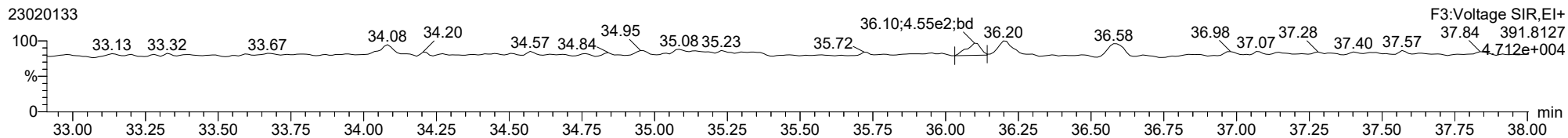
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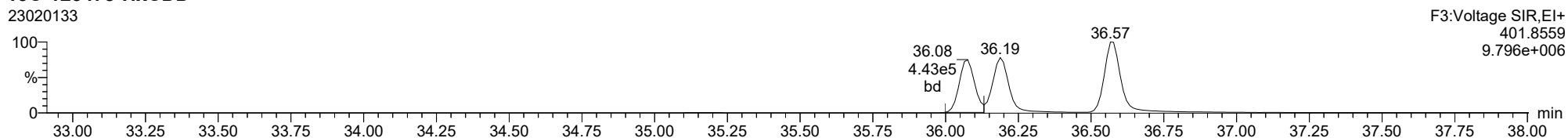
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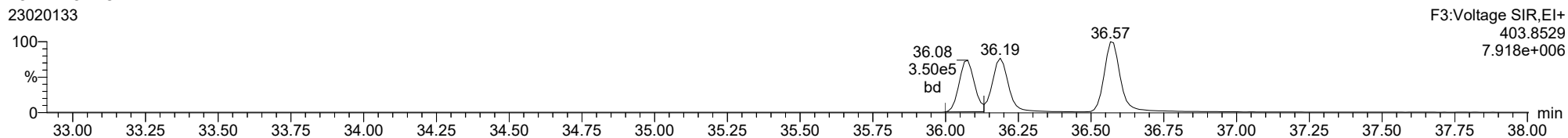
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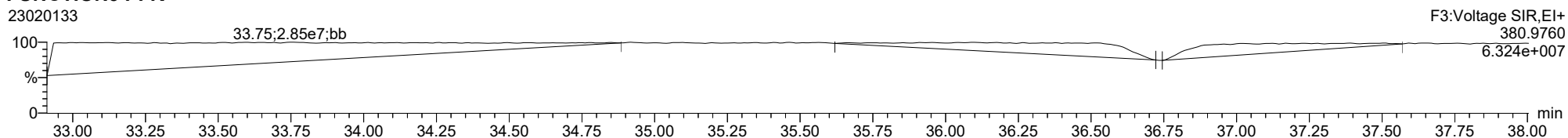
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**FUNCTION3 PFK**

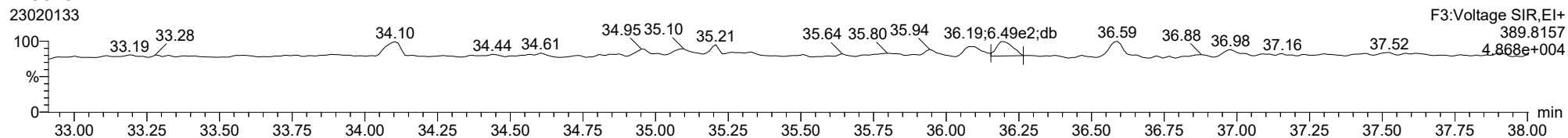
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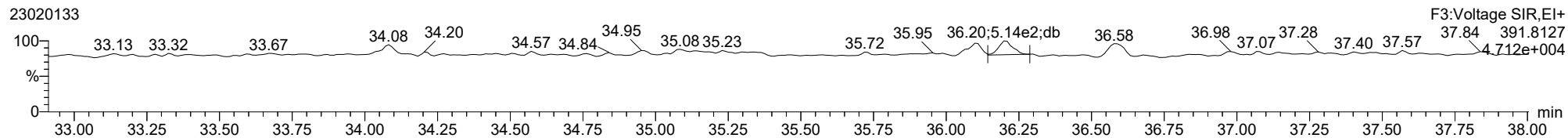
123678-HxCDD

23020133



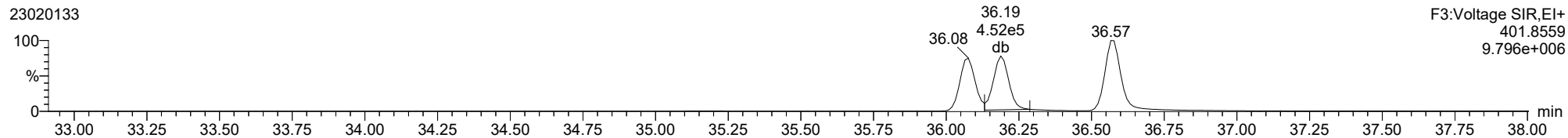
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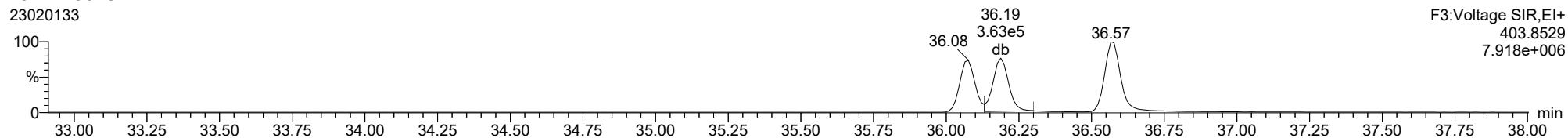
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13C-123678-HxCDD

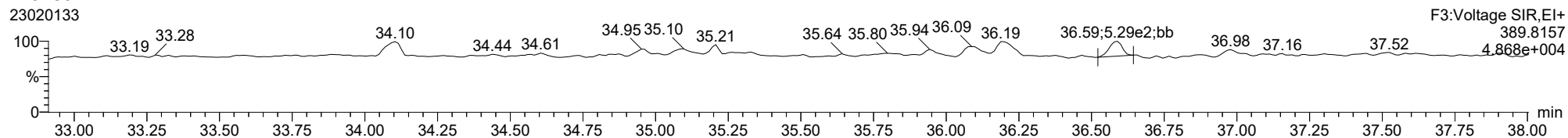
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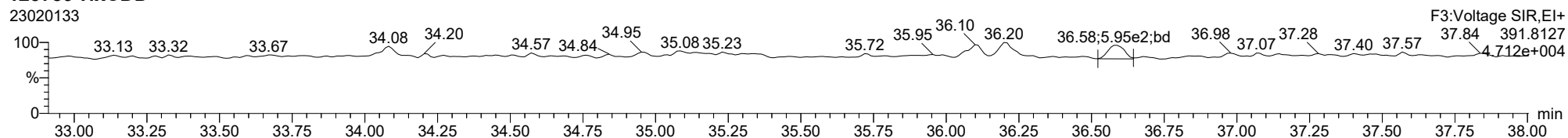
123789-HxCDD

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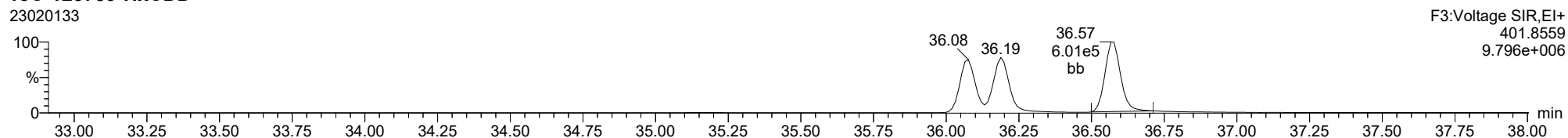
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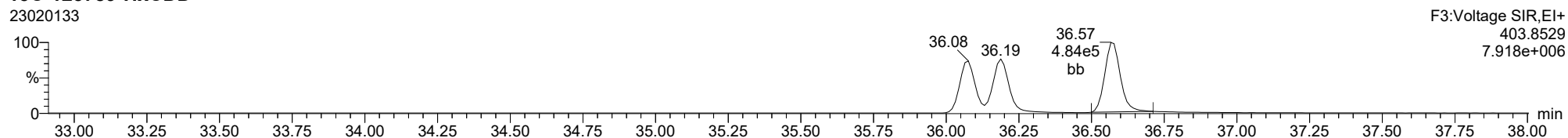
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23020133



13C-123789-HxCDD

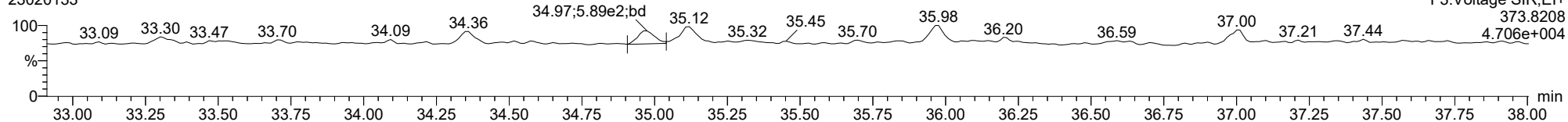
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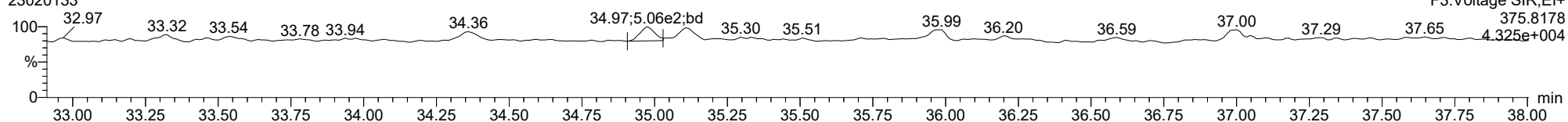
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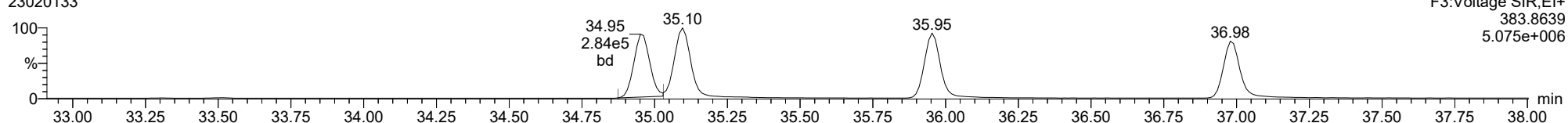
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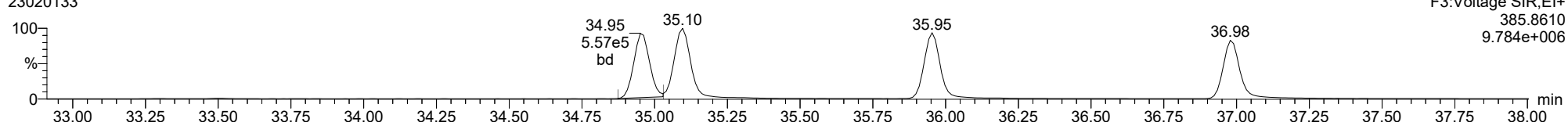
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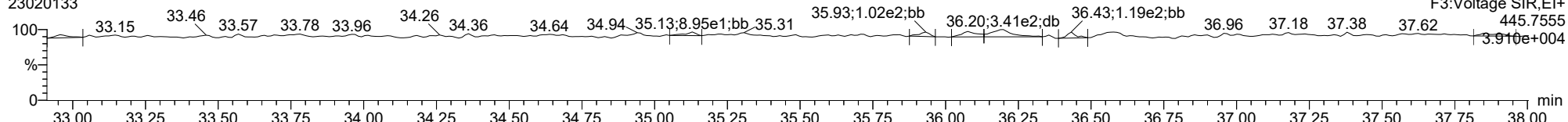
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23020133



**FUNCTION3 OCDPE**

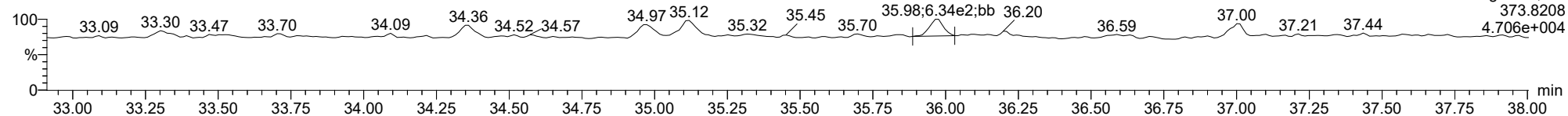
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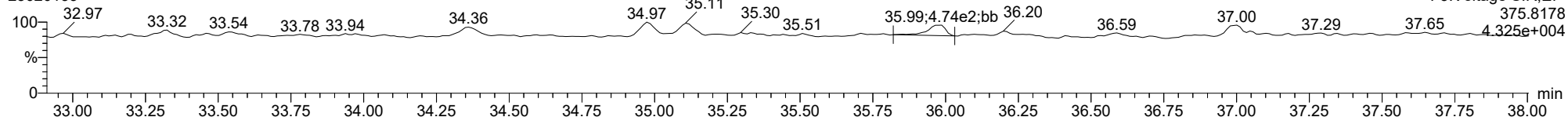
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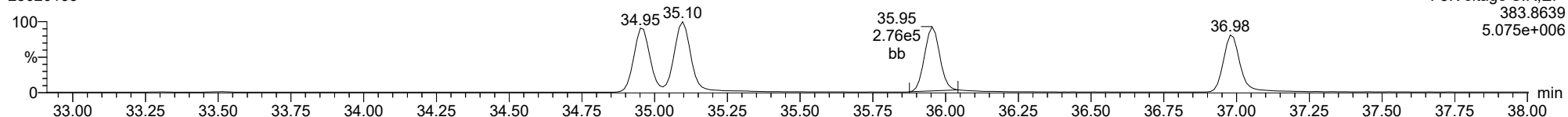
**234678-HxCDF**

23020133



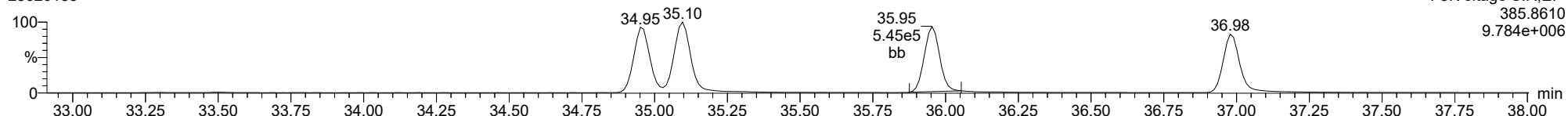
**13C-234678-HxCDF**

23020133



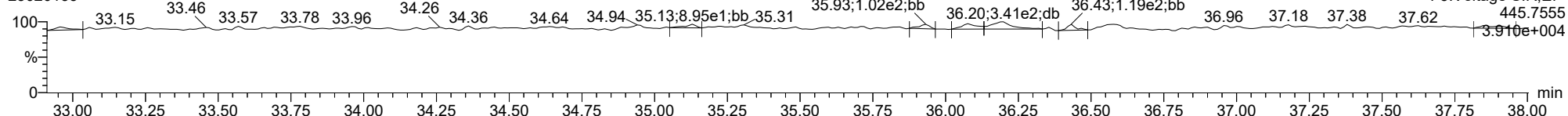
**13C-234678-HxCDF**

23020133



**FUNCTION3 OCDPE**

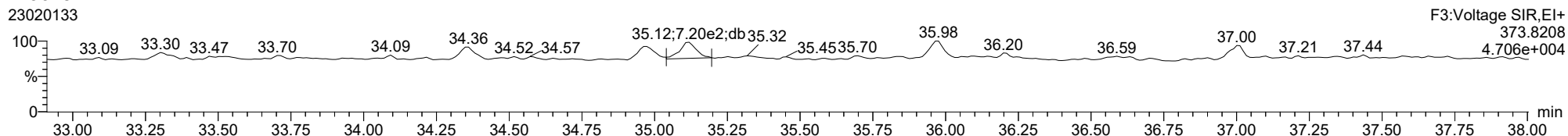
23020133



ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

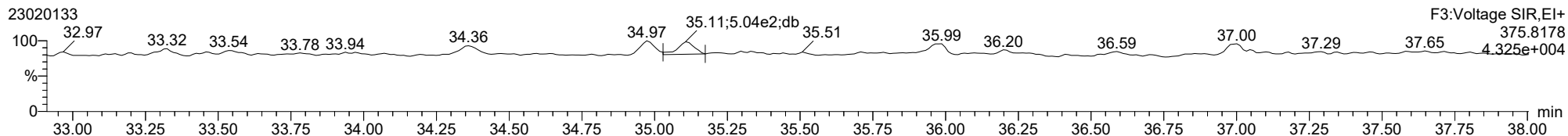
**123678-HxCDF**

23020133



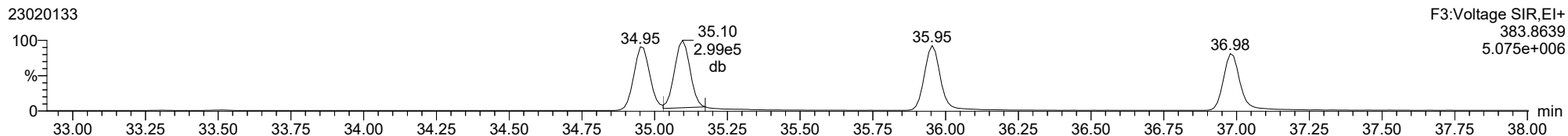
**123678-HxCDF**

23020133



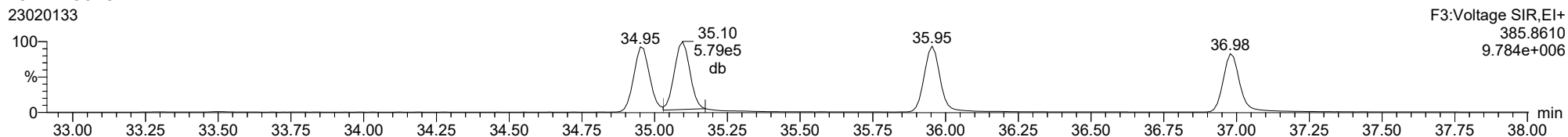
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23020133



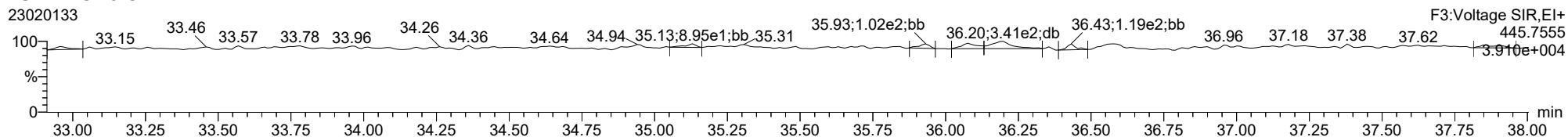
**13C-123678-HxCDF**

23020133



**FUNCTION3 OCDPE**

23020133

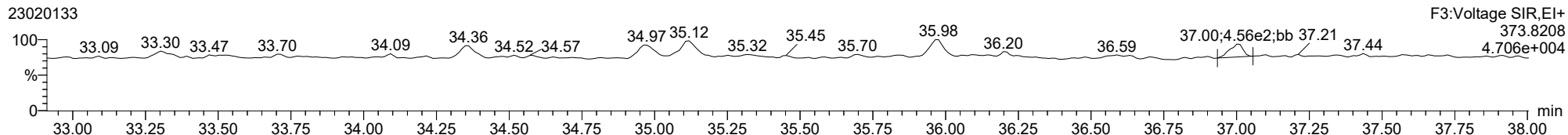




ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

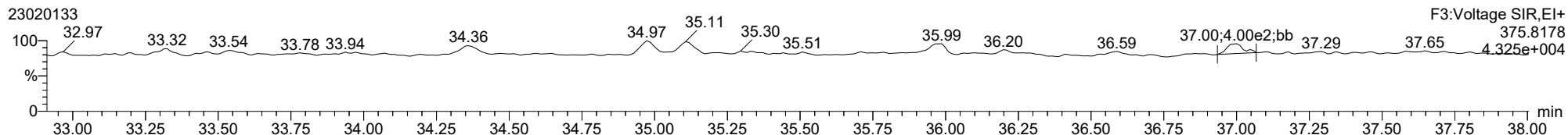
**123789-HxCDF**

23020133



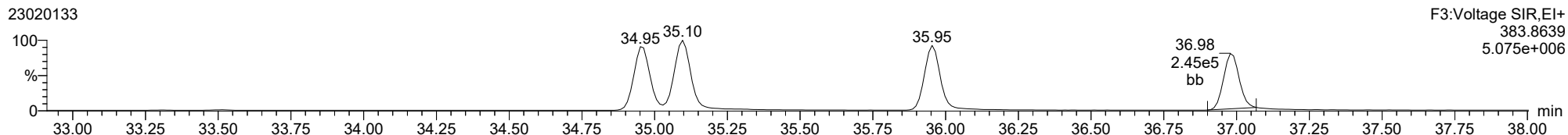
**123789-HxCDF**

23020133



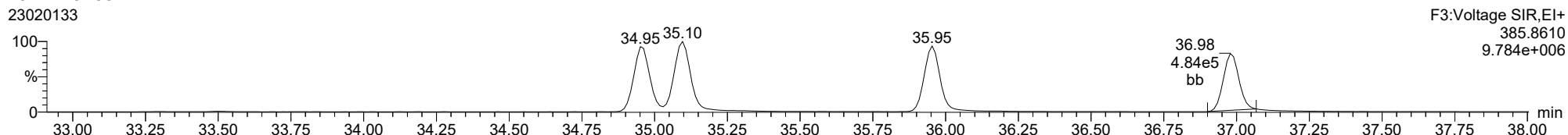
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23020133



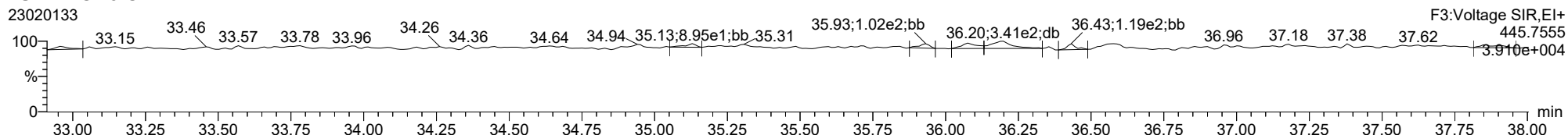
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23020133



**FUNCTION3 OCDPE**

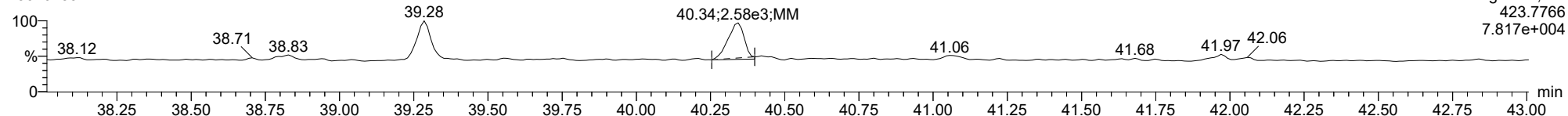
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ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

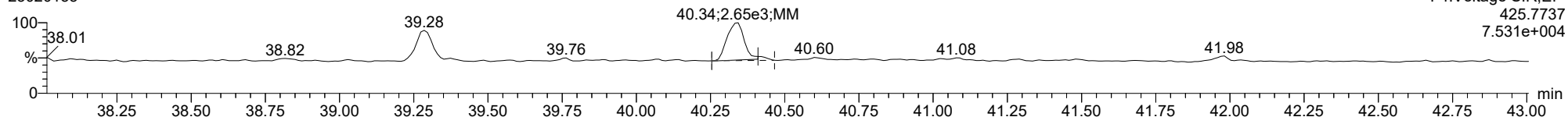
**1234678-HpCDD**

23020133



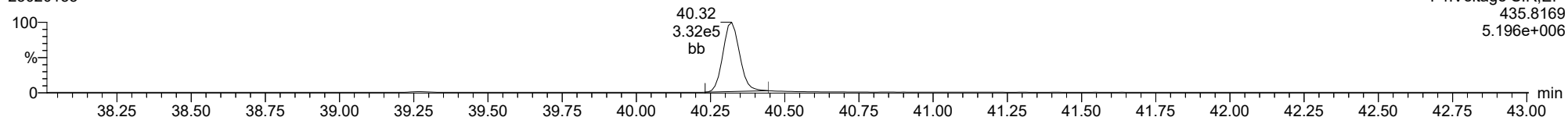
**1234678-HpCDD**

23020133



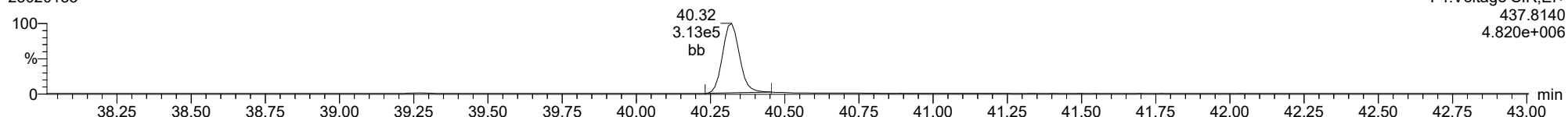
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23020133



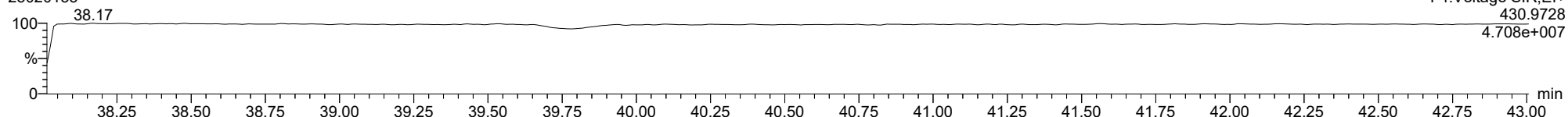
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23020133



**FUNCTION4 PFK**

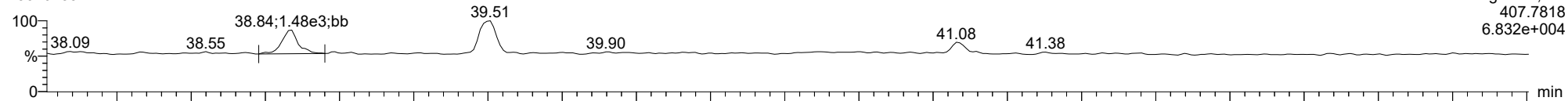
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ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

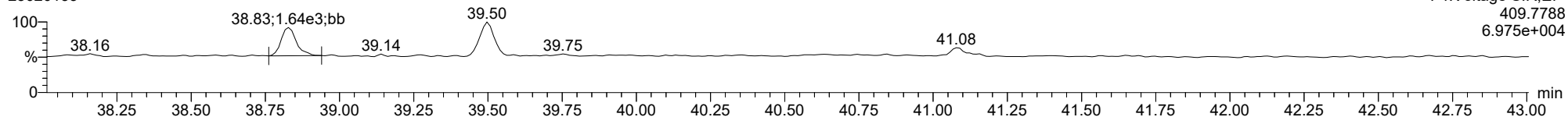
**1234678-HpCDF**

23020133



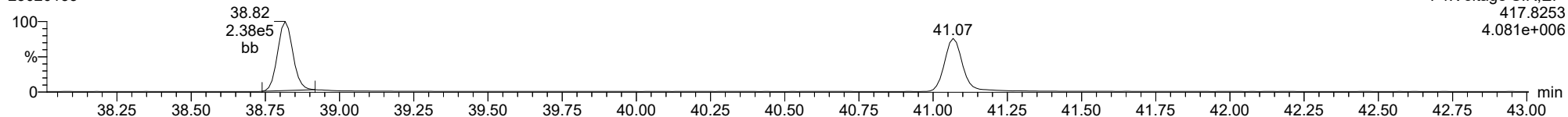
**1234678-HpCDF**

23020133



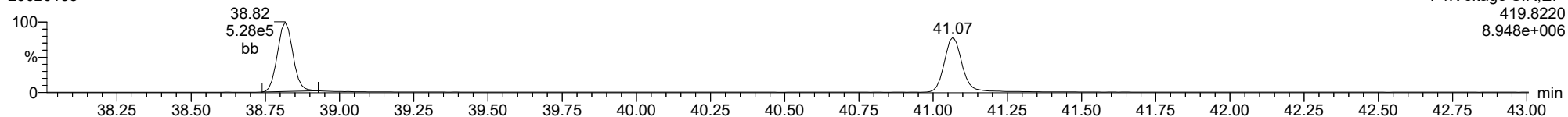
**13C-1234678-HpCDF**

23020133



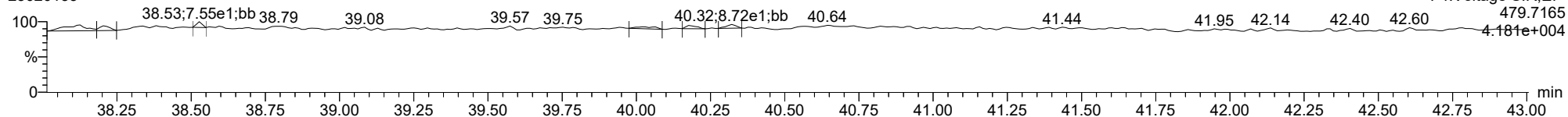
**13C-1234678-HpCDF**

23020133



**FUNCTION4 NCDPE**

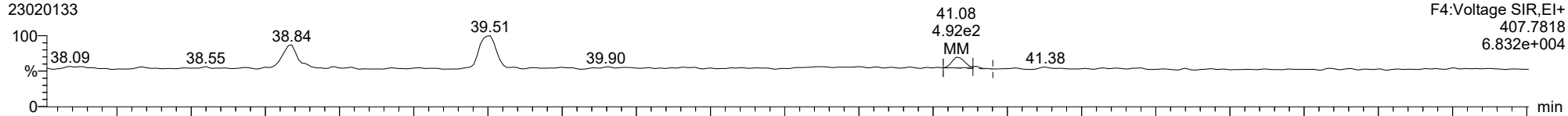
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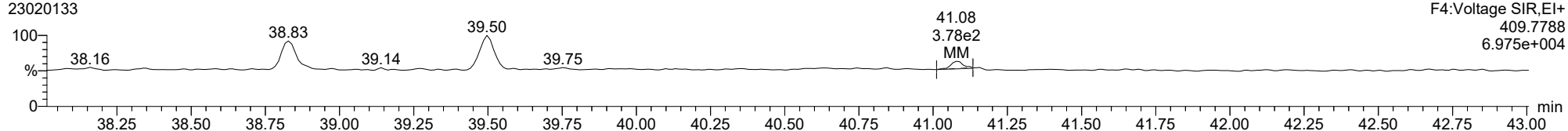
**1234789-HpCDF**

23020133



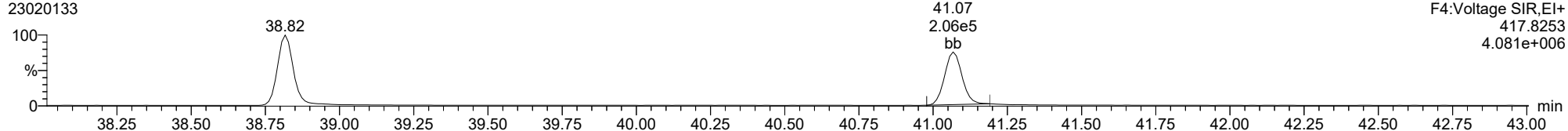
**1234789-HpCDF**

23020133



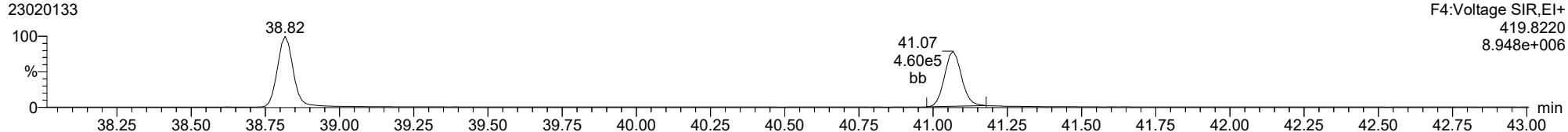
**13C-1234789-HpCDF**

23020133



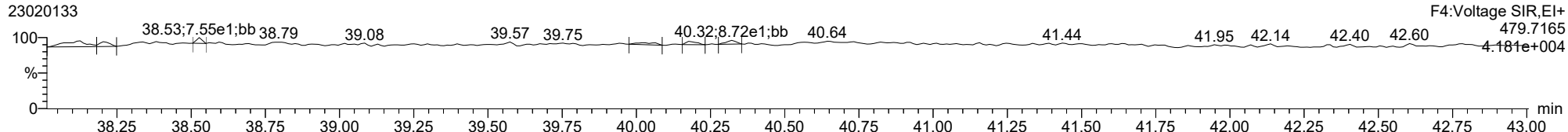
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23020133



**FUNCTION4 NCDPE**

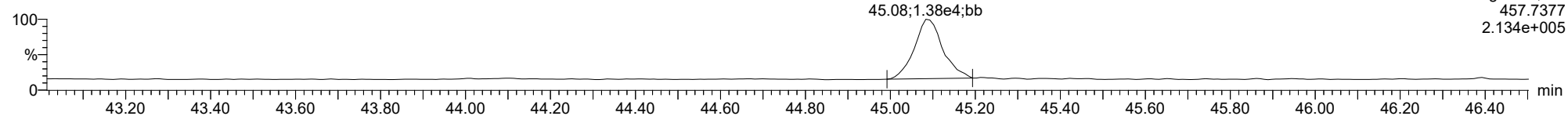
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ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

**OCDD**

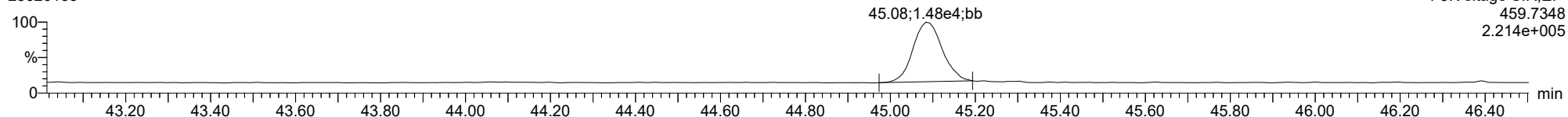
23020133



F5:Voltage SIR,EI+  
457.7377  
2.134e+005

**OCDD**

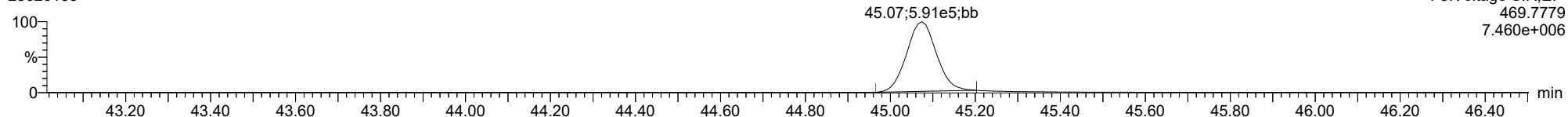
23020133



F5:Voltage SIR,EI+  
459.7348  
2.214e+005

**13C-OCDD**

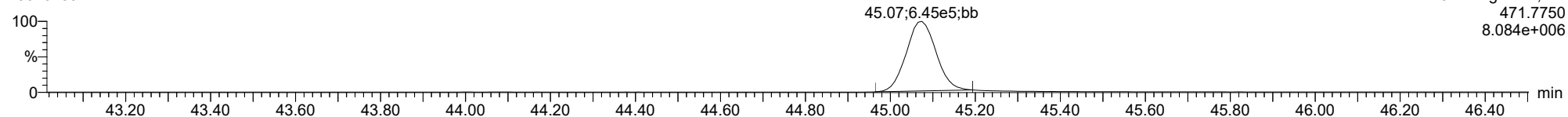
23020133



F5:Voltage SIR,EI+  
469.7779  
7.460e+006

**13C-OCDD**

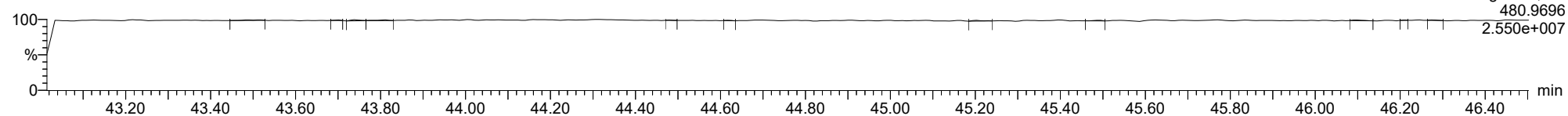
23020133



F5:Voltage SIR,EI+  
471.7750  
8.084e+006

**FUNCTION5 PFK**

23020133

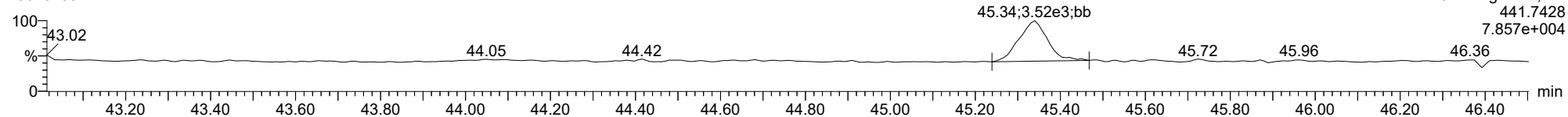


F5:Voltage SIR,EI+  
480.9696  
2.550e+007

ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

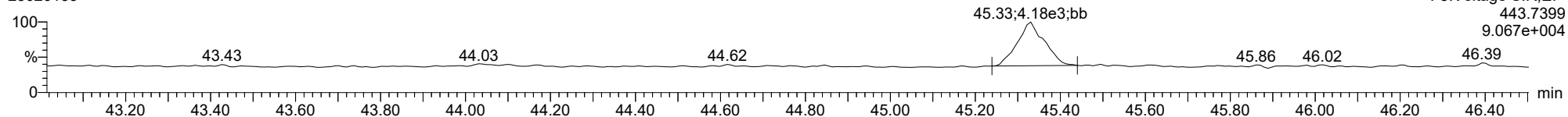
**OCDF**

23020133



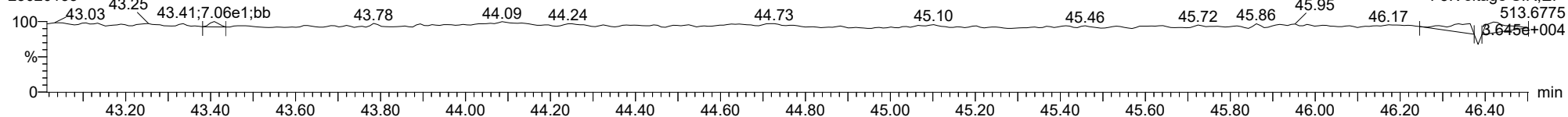
**OCDF**

23020133



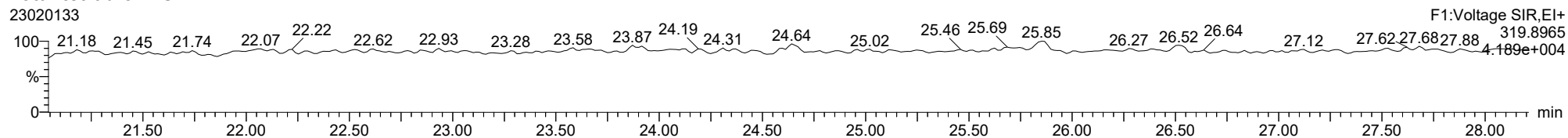
**FUNCTION5 DCDPE**

23020133

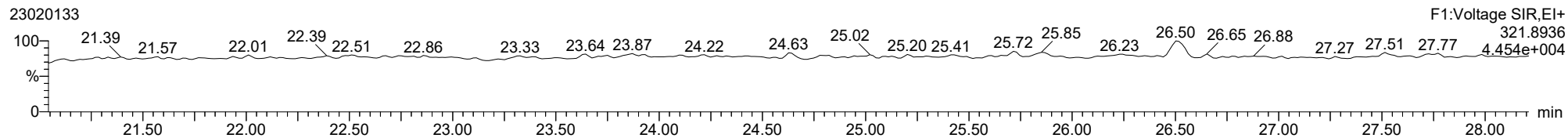


ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

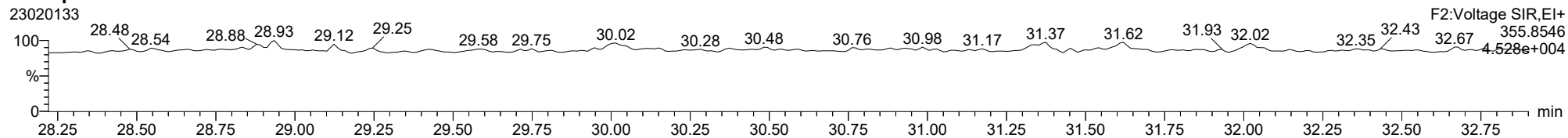
**Total-tetradiioxins**



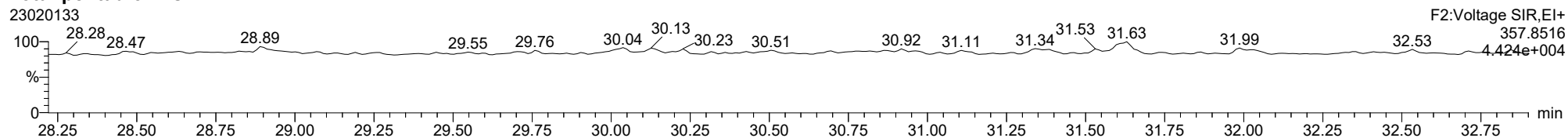
**Total-tetradiioxins**



**Total-pentadiioxins**



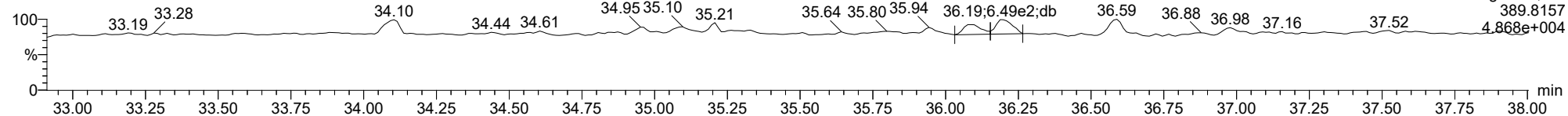
**Total-pentadiioxins**



ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

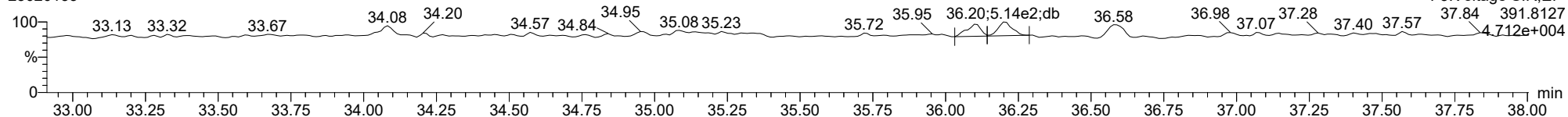
**Total-hexadioxins**

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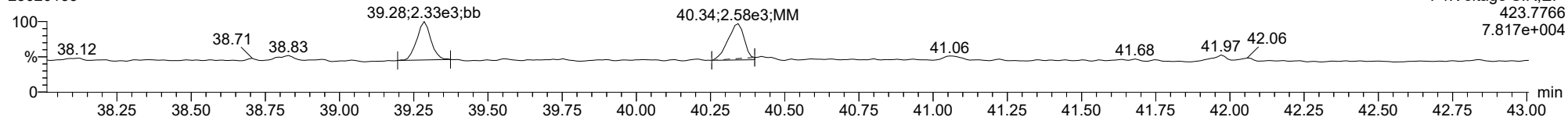
**Total-hexadioxins**

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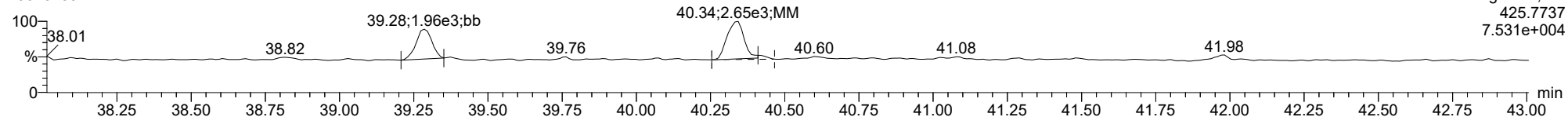
**Total-heptadioxins**

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**Total-heptadioxins**

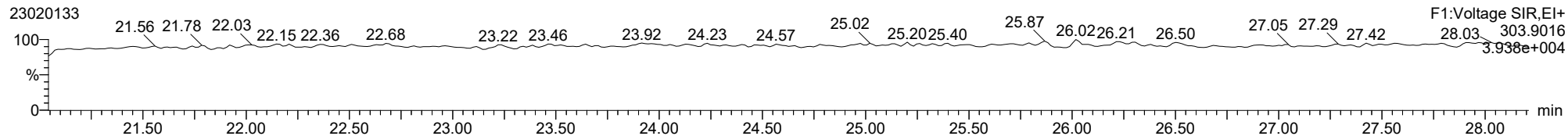
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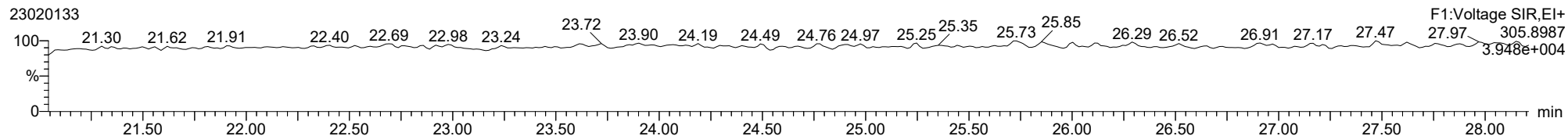


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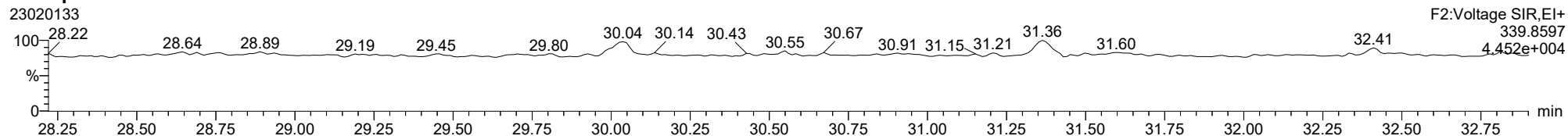
**Total-tetrafurans**



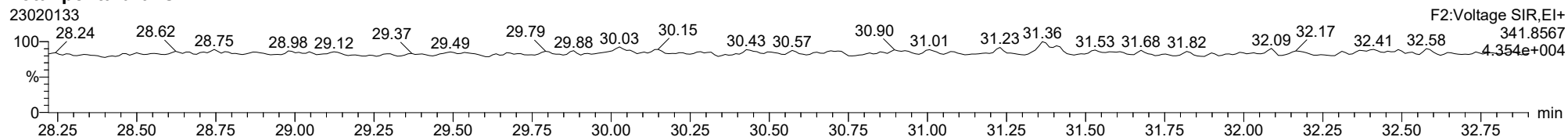
**Total-tetrafurans**



**Total-pentafurans**



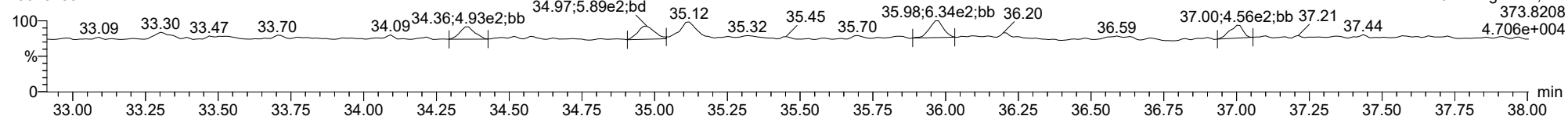
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ID: 22L0246-48, Name: 23020133, Date: 02-Feb-2023, Time: 15:34:14, Conditions: AUTOSPEC01, User: pk

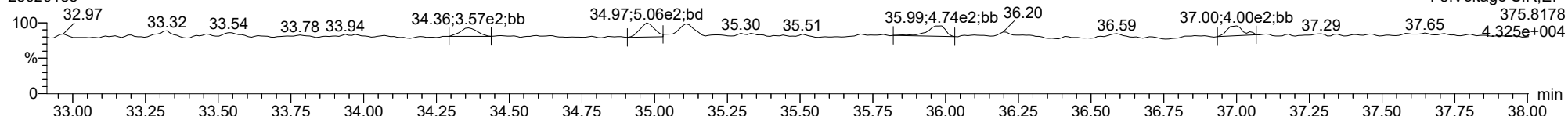
**Total-hexafurans**

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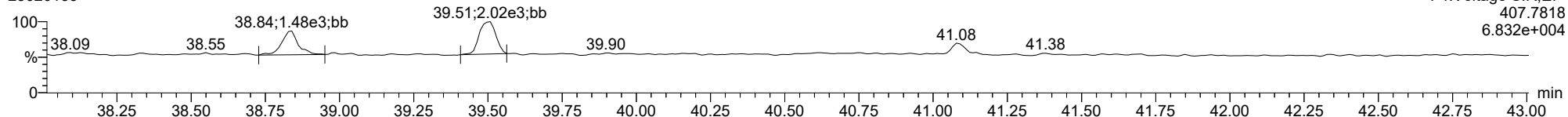
**Total-hexafurans**

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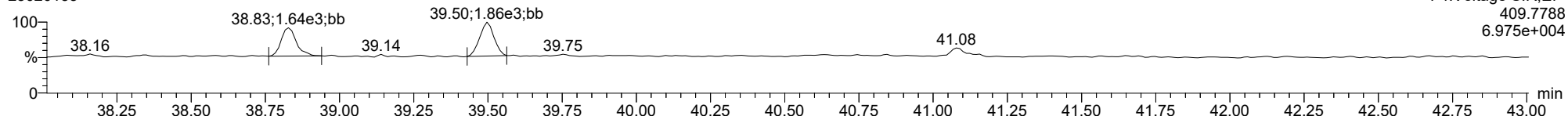
**Total-heptafurans**

23020133



**Total-heptafurans**

23020133





**PREPARATION BATCH SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Batch: BKL0419 Batch Matrix: Solid Preparation: EPA 1613

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT810A	22L0246-07	22122819	12/19/22 15:18	
LDW22-IT810B	22L0246-08	22122820	12/19/22 15:18	
LDW22-IT810C	22L0246-09	22122821	12/19/22 15:18	
LDW22-IT810B-FD	22L0246-10	22122822	12/19/22 15:18	
LDW22-IT810D	22L0246-11	22122823	12/19/22 15:18	
LDW22-IT810E	22L0246-12	23020124	12/19/22 15:18	
LDW22-IT810F	22L0246-13	23020125	12/19/22 15:18	
LDW22-IT810G	22L0246-14	23020126	12/19/22 15:18	
LDW22-IT809A	22L0246-42	23020127	12/19/22 15:18	
LDW22-IT809B	22L0246-43	23020128	12/19/22 15:18	
LDW22-IT809C	22L0246-44	23020129	12/19/22 15:18	
LDW22-IT809C	22L0246-44RE1	23030804	12/19/22 15:18	Added 3/8/2023 by PK
LDW22-IT809D	22L0246-45	23020130	12/19/22 15:18	
LDW22-IT809D	22L0246-45RE1	23030805	12/19/22 15:18	Added 3/8/2023 by PK
LDW22-IT809E	22L0246-46	23020131	12/19/22 15:18	
LDW22-IT809F	22L0246-47	23020132	12/19/22 15:18	
LDW22-IT809G	22L0246-48	23020133	12/19/22 15:18	
Blank	BKL0419-BLK1	22122814	12/19/22 15:18	
LCS	BKL0419-BS1	22122815	12/19/22 15:18	
LDW22-IT810A	BKL0419-DUP1	22122818	12/19/22 15:18	
Reference	BKL0419-SRM1	22122816	12/19/22 15:18	



Analytical Resources, LLC  
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A & 1613B

Batch: BKL0419

Solid Samples

ARI Work Orders: 22L0155,22I0246				
Matrix (circle one)	<input checked="" type="checkbox"/> Soil	<input type="checkbox"/> Sediment	<input type="checkbox"/> Oil	<input type="checkbox"/> Tissue
Extraction Method	Start Date/Time:		End Date/Time:	
<input checked="" type="checkbox"/> Soxhlet <input type="checkbox"/> SepF Shake out	12/19/22	15:18	12/20/22	07:41
Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Glasswool		J012850	TW	12/22/22
Basic Silica		K002255	TW	12/22/22
Acid Silica		K011012	TW	12/22/22
Activated Florisil		J008568	TW	12/22/22
Balance		24650344	TW	12/19/22
Toluene		K004738/K411233	TW	12/19/22
Hexane		K011373	TW	12/20/22
CH2Cl2		K010561	TW	12/22/22
H2SO4		K009796	TW	12/20/22
Na2SO4		K011285	TW	12/19/22
Other ( RM )		K011477	TW	12/19/22
0% Silica		K011054	TW	12/19/22
Nonane		H006038	TW	12/27/22

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g)		RotoVap 45 °C	Water Trap Vol (mL)	Final Vol. (uL)
			(Target Dry)	Actual			
22L0155-24 D	LDW22-IT805	77.57	(12.89)	12.91	1/2	3.0	20
22L0246-07 A	LDW22-IT810A	63.16	(15.83)	15.83	1/2	5.5	20
22L0246-08 A	LDW22-IT810B	64.56	(15.49)	15.49	1/2	6.0	20
22L0246-09 A	LDW22-IT810C	58.84	(17.00)	17.01	1/2	2.0	20
22L0246-10 A	LDW22-IT810B-FD	64.11	(15.60)	15.60	1/2	5.5	20
22L0246-11 A	LDW22-IT810D	59.35	(16.85)	16.85	1/2	7.0	20
22L0246-12 A	LDW22-IT810E	53.24	(18.78)	18.79	1/2	6.0	20
22L0246-13 A	LDW22-IT810F	52.83	(18.93)	18.95	1/2	5.5	20
22L0246-14 A	LDW22-IT810G	63.35	(15.79)	15.80	1/2	5.0	20
22L0246-42 A	LDW22-IT809A	54.38	(18.39)	18.43	1/2	5.5	20
22L0246-43 A	LDW22-IT809B	61.14	(16.36)	16.32	1/2	6.0	20
22L0246-44 A	LDW22-IT809C	48.53	(20.61)	20.64	1/2	4.0	20
22L0246-45 A	LDW22-IT809D	81.54	(12.26)	12.26	1/2	2.0	20
22L0246-46 A	LDW22-IT809E	83.24	(12.01)	12.04	1/2	2.0	20
22L0246-47 A	LDW22-IT809F	75.19	(13.30)	13.33	1/2	2.5	20
22L0246-48 A	LDW22-IT809G	92.09	(10.86)	10.86	1/2	0.5	20
BKL0419-BLK1	Blank	100	0	0.00	1/2	0.0	20
BKL0419-BS1	LCS	100	0	0.00	1/2	0.0	20
BKL0419-DUP1	22L0246-07A Duplicate	63.16	(15.83)	15.84	1/2	5.5	20
BKL0419-SRM1	Reference	100	0	10.04	1/2	0.0	20
Prep Analyst / Date:					TW 12/19/22 TW 12/20/22 TW 12/21/22		

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	K009496	2/4 ng/mL	10/13/23	TW	SP	12/19/22
OPR	1.0 mL	K006063	0.2/1.0/2.0 ng/mL	6/30/23	TW	SP	12/19/22
QLS Standard	1.0 mL		0.1/0.05/0.1 ng/mL ng/mL				
Clean-up Standard	1.0 mL	K011159	0.8 ng/mL	12/2/23	TW	TW	12/22/22

Verify Client ID	
Analyst / Date:	TW 12/19/22
Analyst / Date:	TW <input checked="" type="checkbox"/> N 12/20/22
Analyst / Date:	TW <input checked="" type="checkbox"/> N 12/22/22

Supervisor Review By: [Signature] Date: 12/28/22

TOTAL SOLIDS BENCHSHEET						Batch:	BKL0297		
Method HRSM01.2						Date:	12/16/2022 5:30		
(dry at 110 C)						Anaiyst:	TW		
Instrumentation						Drying Oven:	18		
						Analytical Balance:	24650344		
Batch drying time			Oven Temp, C				TS (%) calculated as:		
Record times as mm/dd/yy hh:mm			Final dry wt (g) = (Dry Wt - Tare Wt)				Oven Temps, °C		
Date/time in oven:	12/15/2022 12:25		110	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)				Start Temp:	110
Date/time out:	12/16/2022 5:30		111					End Temp:	111
Elapsed hrs:	17.1								
SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted			
22L0155-24	0.8000	11.4100	9.0300	8.23	77.57%	Yes			
22L0246-07	0.8000	11.6300	7.6400	6.84	63.16%	No			
22L0246-08	0.8000	11.5800	7.7600	6.96	64.56%	No			
22L0246-09	0.8000	11.3200	6.9900	6.19	58.84%	No			
22L0246-10	0.8100	11.1200	7.4200	6.61	64.11%	No			
22L0246-11	0.8200	11.5200	7.1700	6.35	59.35%	No			
22L0246-12	0.8200	11.3200	6.4100	5.59	53.24%	No			
22L0246-13	0.8200	11.6100	6.5200	5.70	52.83%	No			
22L0246-14	0.7900	11.4300	7.5300	6.74	63.35%	No			
22L0246-42	0.8000	11.0800	6.3900	5.59	54.38%	Yes			
22L0246-43	0.8100	11.4900	7.3400	6.53	61.14%	No			
22L0246-44	0.7900	11.7100	6.0900	5.30	48.53%	No			
22L0246-45	0.7900	11.4100	9.4500	8.66	81.54%	No			
22L0246-46	0.8100	11.7300	9.9000	9.09	83.24%	No			
22L0246-47	0.8000	11.4800	8.8300	8.03	75.19%	No			
22L0246-48	0.8000	11.2900	10.4600	9.66	92.09%	No			

**TOTAL SOLIDS BENCHSHEET**

Method HRSM01.2

(dry at 110 C)

Batch: BKL0297

Date: TW 12/15/22 12/16/22

Analyst: TW

Drying Oven: 018

Analytical Balance: 24650344

**Instrumentation**

Batch drying time		Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Record times as mm/dd/yy hh:mm			Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	
Date/time in oven:	12/15/22 12:25	110	TS = (Final Dry Wt X 100)/(sample & dish -dish tare)	110	
Date/time out:	12/16/22 0534	111		End Temp:	111
Elapsed hrs:	0.0				

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0155-24 D	0.80	11.41	7.903			No Yes
22L0246-07 A	0.80	11.63	7.64			No
22L0246-08	0.80	11.58	7.76			No
22L0246-09	0.80	11.32	6.99			No
22L0246-10	0.81	11.12	7.42			No
22L0246-11	0.82	11.52	7.17			No
22L0246-12	0.82	11.32	6.41			No
22L0246-13	0.82	11.61	6.52			No
22L0246-14	0.79	11.43	7.53			No
22L0246-42	0.80	11.08	6.39			No Yes
22L0246-43	0.81	11.49	7.34			No
22L0246-44	0.79	11.71	6.09			No
22L0246-45	0.79	11.41	9.45			No
22L0246-46	0.81	11.73	9.90			No
22L0246-47	0.80	11.48	8.83			No
22L0246-48	0.80	11.29	10.46			No



Extraction Parameter: Dioxin Extraction Batch \_\_\_\_\_

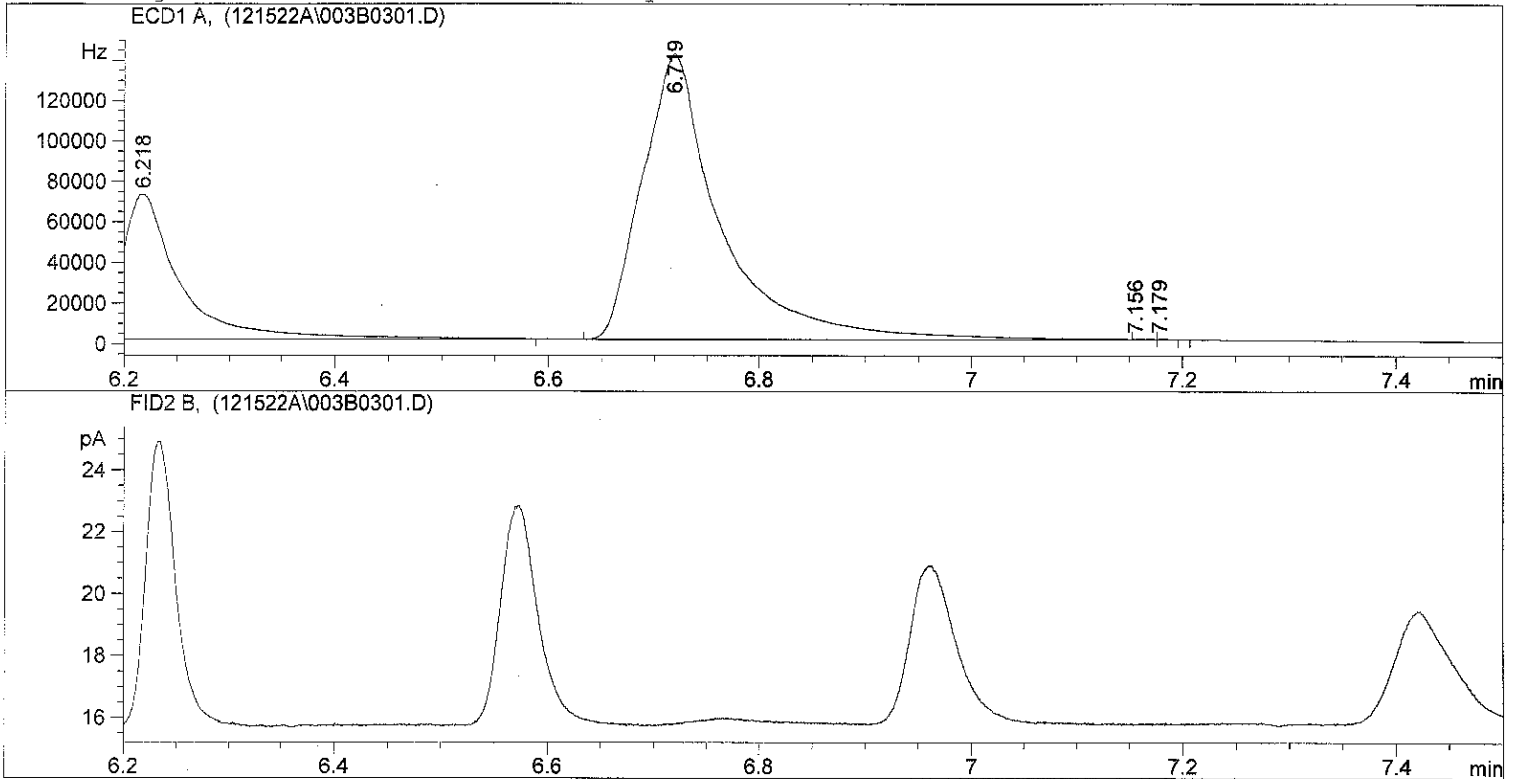
Total Solids Batch: BKL0297 Work Order(s): 22L0155, 22L0246

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= 246-46, 47	TW 12/15/22
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= 155-24, 246-42	TW 12/15/22
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input checked="" type="checkbox"/> Clay/Clumps (Difficult to homogenize)= 155-24, 246-07-44, 48	TW 12/15/22
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= 246-07-42, 44, 45, 48	TW 12/15/22
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input checked="" type="checkbox"/> Other (Details)= 246-11, 12, 13 = Small amount of precipitate post-rotovap	TW 12/20/22
BSI extract sealed between Acid Clean and Si Clean due to long pipet, ~20% loss	TW 12/22/22
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
Most of the extracts contain < 5% water content, condensation from refrigerator,	TW 12/27/22
samples = BSI, 9, 10, 11, 12, 13, 14, 42, 43, 44, 45, 46, 47, 48	
↳ prior to nitrogen evaporation. All extracts dried w/ sulfate, transferred + rinse to new microvials	
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

```

=====
Injection Date : 12/15/2022 3:09:59 PM      Seq. Line : 3
Sample Name    : CS4                        Location  : Vial 3
Acq. Operator  : TW                          Inj      : 1
                                           Inj Volume : 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method        : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed  : 3/22/2022 4:13:36 AM by DM
    
```



Area Percent Report

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Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
    
```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.297	BP	0.0000	1382.83325	584.11359	0.04388
2	5.521	VV S	0.0373	4.64538e5	1.79139e5	14.74188
3	5.619	VV S	0.0503	6.62398e5	2.19301e5	21.02088
4	5.685	VV S	0.0396	2.32128e5	9.76390e4	7.36648
5	5.732	VV S	0.0651	3.18576e5	8.16026e4	10.10987
6	5.983	VV S	0.0380	2.80024e5	9.96332e4	8.88643
7	6.134	VV S	0.0453	1.96544e5	7.22810e4	6.23724
8	6.218	VB S	0.0626	2.68048e5	7.13691e4	8.50637
9	6.719	PB S	0.0644	7.27473e5	1.40929e5	23.08600
10	7.156	BV T	8.84e-3	19.84959	37.40338	0.00063
11	7.179	PB T	7.76e-3	10.51329	22.58057	0.00033

Totals : 3.15114e6 9.62538e5

Results obtained with enhanced integrator!

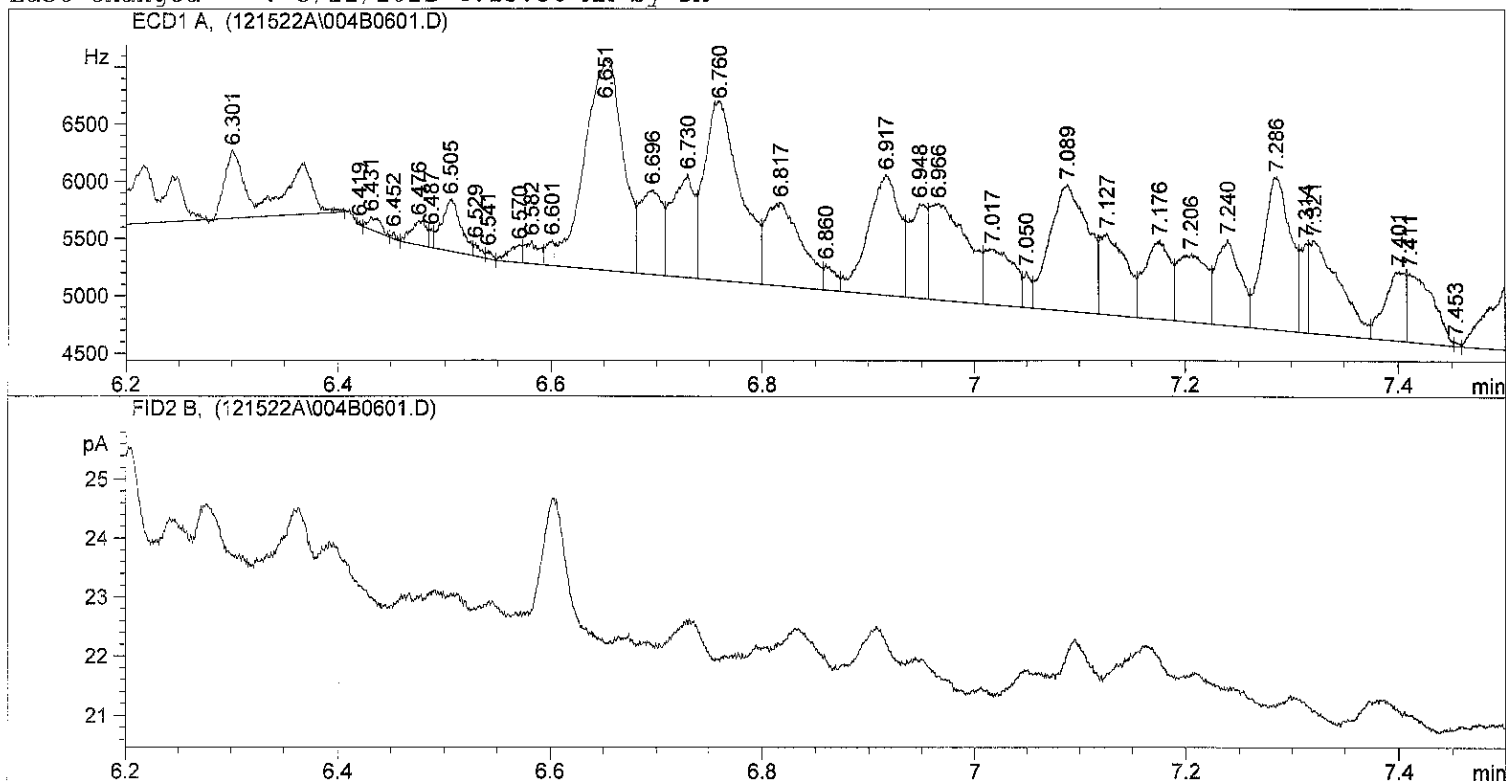


Signal 2: FID2 B,

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\*\*\* End of Report \*\*\*

=====  
Injection Date : 12/15/2022 3:43:06 PM      Seq. Line : 6  
Sample Name : 22L0155 24                      Location : Vial 4  
Acq. Operator : TW                              Inj : 1  
   Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\2\SEQUENCE\121522A.S  
Method : C:\HPCHEM\2\METHODS\DIOXIN.M  
Last changed : 3/22/2022 4:13:36 AM by DM  
=====



=====  
Area Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.249	BV	0.0241	1759.24585	905.47583	2.03634
2	5.269	VV	0.0126	520.87079	564.13654	0.60291
3	5.307	VV S	0.0238	6675.97021	3667.93335	7.72748
4	5.373	VV S	0.0232	2605.96582	1871.71106	3.01642
5	5.474	VV S	0.0248	7416.03418	4974.35742	8.58411
6	5.509	VV S	0.0730	4004.56909	914.84894	4.63532
7	5.568	BV T	0.0120	227.87170	238.20676	0.26376
8	5.582	VV T	8.26e-3	163.34262	248.91051	0.18907
9	5.598	VV T	0.0131	464.28595	432.66296	0.53741
10	5.625	VV T	0.0255	1230.08997	577.30396	1.42384
11	5.694	VV T	0.0194	2532.55249	1693.73938	2.93145
12	5.723	VV T	4.02e-3	46.66033	193.50226	0.05401
13	5.756	VV T	0.0191	2360.78418	1779.06128	2.73262
14	5.788	VV T	5.64e-3	8.79870	26.02395	0.01018
15	5.794	VV T	0.0309	27.21234	10.69932	0.03150
16	5.803	VV T	6.88e-3	22.22868	53.81921	0.02573
17	5.816	VV T	2.58e-3	9.06463	53.30327	0.01049

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.829	VV T	9.00e-3	44.33572	60.17013	0.05132
19	5.873	VV S	0.0177	2843.08813	2107.55078	3.29089
20	5.983	VV S	0.1040	6446.21191	905.83997	7.46154
21	6.301	VB S	0.0962	4159.96484	588.97095	4.81519
22	6.419	BV	2.64e-3	5.44732	31.17931	0.00631
23	6.431	VP	0.0105	97.85607	113.49165	0.11327
24	6.452	VP	3.64e-3	13.94216	57.17717	0.01614
25	6.476	VV	0.0124	209.04579	210.74091	0.24197
26	6.487	VV	4.05e-3	41.89133	150.42493	0.04849
27	6.505	VV	0.0156	559.53137	447.59265	0.64766
28	6.529	VV	5.85e-3	49.08794	109.07472	0.05682
29	6.541	VP	5.04e-3	24.90403	68.48550	0.02883
30	6.570	VV	0.0111	131.25844	152.65747	0.15193
31	6.582	VV	0.0121	177.74701	196.61635	0.20574
32	6.601	VV	6.72e-3	114.35768	218.15854	0.13237
33	6.651	VV	0.0301	4574.16602	1846.80676	5.29463
34	6.696	VV	0.0186	1103.11438	737.89618	1.27686
35	6.730	VV	0.0188	1375.70081	899.58319	1.59238
36	6.760	VV	0.0286	3646.25879	1566.46899	4.22057
37	6.817	VV	0.0288	1708.79626	728.00879	1.97794
38	6.860	VV	8.99e-3	156.30130	217.29167	0.18092
39	6.917	VV	0.0246	2151.45337	1046.69934	2.49032
40	6.948	VV	0.0138	936.11267	827.62714	1.08356
41	6.966	VV	0.0295	2076.18701	838.59833	2.40320
42	7.017	VV	0.0229	938.43188	485.55566	1.08624
43	7.050	VV	6.43e-3	155.29030	310.88156	0.17975
44	7.089	VV	0.0303	2785.98828	1100.93298	3.22480
45	7.127	VV	0.0207	1212.10315	704.44873	1.40302
46	7.176	VV	0.0200	1142.38525	681.56360	1.32232
47	7.206	VV	0.0233	1130.75891	582.17090	1.30886
48	7.240	VV	0.0184	1147.46484	741.96625	1.32820
49	7.286	VV	0.0237	2424.65479	1330.21655	2.80656
50	7.314	VV	6.94e-3	395.26068	776.92102	0.45752
51	7.321	VV	0.0241	1601.77466	801.20288	1.85407
52	7.401	VV	0.0163	808.22211	602.27991	0.93552
53	7.411	VV	0.0280	1000.92584	595.48126	1.15858
54	7.453	VP	3.60e-3	10.24576	37.37672	0.01186
55	7.509	VV	0.0338	1952.21899	681.28693	2.25971
56	7.566	VV	0.0141	286.66876	254.85721	0.33182
57	7.626	VV	0.0394	4975.89746	1486.80493	5.75964
58	7.689	VV	7.38e-3	140.16333	273.66254	0.16224
59	7.717	VP	0.0265	1358.51086	606.88672	1.57249
60	7.765	VV	6.18e-3	9.72033	20.30582	0.01125
61	7.781	VV	7.20e-3	80.69905	142.57314	0.09341
62	7.794	VBA	0.0122	112.86919	137.53168	0.13065

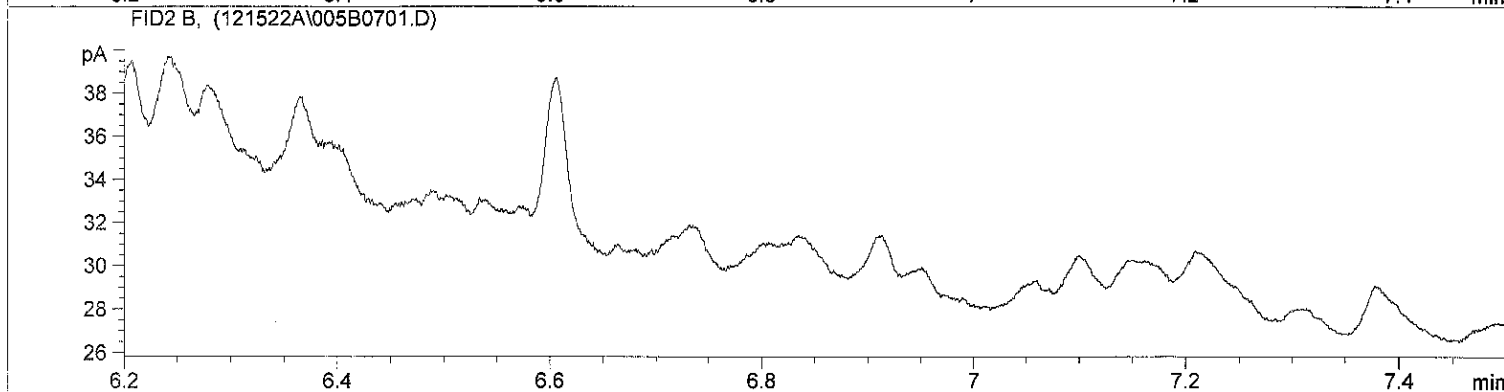
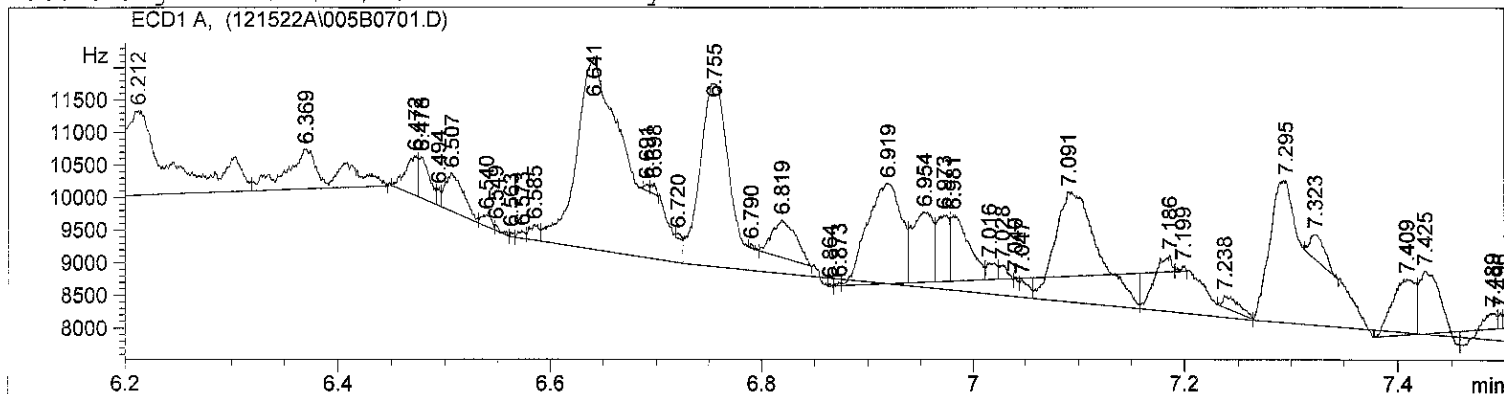
Totals : 8.63926e4 4.46877e4

Results obtained with enhanced integrator!

Signal 2: FID2 B,

\*\*\* End of Report \*\*\*

=====  
Injection Date : 12/15/2022 3:54:05 PM      Seq. Line : 7  
Sample Name : 22L0246 07                      Location : Vial 5  
Acq. Operator : TW                              Inj : 1  
   Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\2\SEQUENCE\121522A.S  
Method : C:\HPCHEM\2\METHODS\DIOXIN.M  
Last changed : 3/22/2022 4:13:36 AM by DM  
=====



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Area Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.250	BV	0.0111	370.59140	434.59659	0.18466
2	5.297	VV S	0.0199	1.83352e4	1.32478e4	9.13618
3	5.374	VV S	0.0249	4282.75586	2868.59399	2.13404
4	5.435	VV S	0.0303	8644.92480	4749.49854	4.30764
5	5.474	VV S	0.0250	1.20345e4	8037.93604	5.99662
6	5.509	VV S	0.0253	2901.92529	1912.62183	1.44599
7	5.571	VV S	0.0471	2.54127e4	6938.81299	12.66277
8	5.695	VV S	0.0390	9481.82324	4051.63843	4.72466
9	5.759	VV S	0.0304	1.57916e4	8652.73340	7.86871
10	5.945	VV S	0.0935	2.26281e4	4032.39038	11.27526
11	6.004	VV S	0.0471	1.14462e4	4047.18262	5.70349
12	6.212	VV S	0.1285	1.16405e4	1297.77856	5.80030
13	6.369	VB S	0.0522	1826.84534	603.56195	0.91029
14	6.472	BV	0.0101	480.73563	602.54712	0.23954
15	6.478	VV	0.0118	448.86404	636.00146	0.22366
16	6.494	VV	4.03e-3	74.42838	253.31839	0.03709
17	6.507	VV	0.0151	719.97131	585.38586	0.35875

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.540	VV	9.66e-3	116.02949	181.35316	0.05782
19	6.549	VP	5.18e-3	29.45745	86.40383	0.01468
20	6.563	VV	3.22e-3	14.56873	64.98693	0.00726
21	6.573	VV	5.35e-3	46.61861	109.89943	0.02323
22	6.585	VV	7.56e-3	142.54582	232.35243	0.07103
23	6.641	VV S	0.0409	1.02083e4	2953.60742	5.08665
24	6.691	BV T	3.98e-3	25.26545	92.71559	0.01259
25	6.698	PB T	4.99e-3	52.30189	161.05611	0.02606
26	6.720	BV T	5.35e-3	23.75586	74.00364	0.01184
27	6.755	VV S	0.0602	1.43583e4	2840.14526	7.15452
28	6.790	BV T	4.01e-3	14.95424	54.41977	0.00745
29	6.819	PB T	0.0190	902.72723	571.79401	0.44982
30	6.864	PV T	2.00e-3	4.39059	36.66272	0.00219
31	6.873	PV T	3.88e-3	14.15945	50.29570	0.00706
32	6.919	PV T	0.0296	3469.86621	1535.71448	1.72898
33	6.954	PV T	0.0172	1486.98633	1071.33521	0.74094
34	6.973	PV T	9.79e-3	805.60889	1022.70477	0.40142
35	6.981	PV T	0.0206	1239.79553	1005.03320	0.61777
36	7.016	PV T	8.64e-3	171.14549	254.57658	0.08528
37	7.028	PV T	6.39e-3	110.22701	214.52840	0.05492
38	7.040	PV T	0.0000	6.27907	17.34873	0.00313
39	7.047	PV T	0.0497	75.30167	25.27528	0.03752
40	7.091	PV T	0.0206	2216.16333	1291.14587	1.10428
41	7.186	PV T	0.0000	133.25677	247.36075	0.06640
42	7.199	PB T	4.61e-3	24.25194	78.45082	0.01208
43	7.238	BV T	0.0149	228.22141	183.01271	0.11372
44	7.295	PBAS	0.0523	9533.79297	2177.02051	4.75055
45	7.323	BB T	0.0139	381.74554	381.71213	0.19022
46	7.409	BV T	0.0181	1287.16992	848.53223	0.64138
47	7.425	PV T	0.0151	1140.42505	956.32605	0.56826
48	7.489	PV T	3.07e-3	39.17339	244.85040	0.01952
49	7.496	PV T	3.97e-3	67.15562	232.31415	0.03346
50	7.513	PV T	0.0000	69.97508	477.35315	0.03487
51	7.566	PV T	5.83e-3	217.19989	503.33740	0.10823
52	7.572	PV T	0.0162	465.69968	477.76825	0.23205
53	7.590	PV T	6.99e-3	263.82648	481.77161	0.13146
54	7.629	PV T	0.0109	1150.10364	1378.20752	0.57308
55	7.634	PB T	0.0118	1361.47534	1395.30737	0.67840
56	7.686	BV T	3.41e-3	15.02636	73.52992	0.00749
57	7.691	PV T	3.91e-3	27.31351	116.53799	0.01361
58	7.725	PV T	0.0264	2168.63428	980.61169	1.08060
59	7.778	PV T	3.69e-3	11.53135	50.07739	0.00575
60	7.790	PBAT	4.51e-3	45.72198	129.88509	0.02278

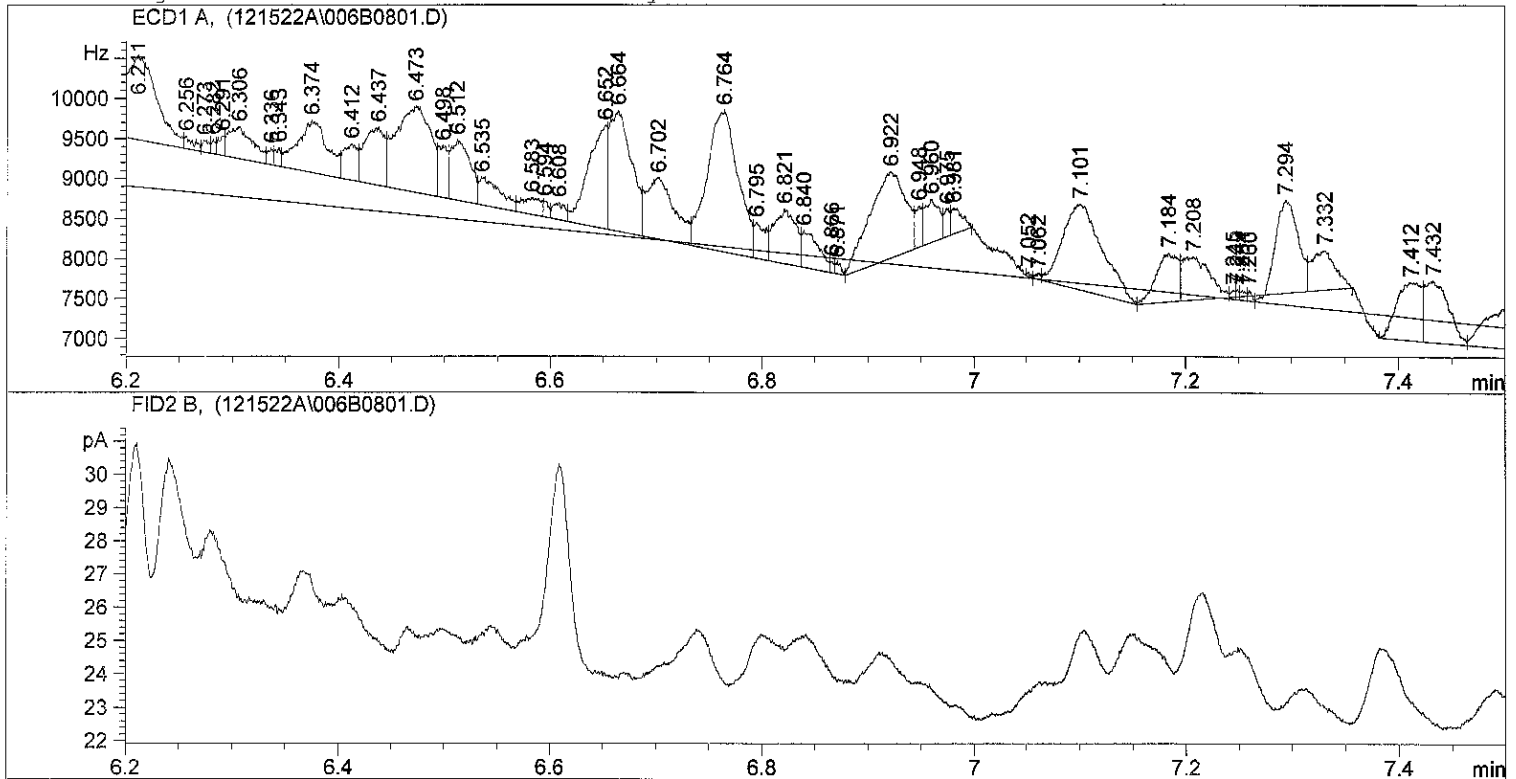
Totals : 2.00688e5 8.83137e4

Results obtained with enhanced integrator!

Signal 2: FID2 B,

\*\*\* End of Report \*\*\*

=====  
Injection Date : 12/15/2022 4:05:17 PM      Seq. Line : 8  
Sample Name : 22L0246 08                      Location : Vial 6  
Acq. Operator : TW                              Inj : 1  
   Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\2\SEQUENCE\121522A.S  
Method : C:\HPCHEM\2\METHODS\DIOXIN.M  
Last changed : 3/22/2022 4:13:36 AM by DM  
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=====  
Area Percent Report  
=====

Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.250	BP	0.0122	257.25217	258.29251	0.20473
2	5.303	VV S	0.0180	4704.97070	3601.11890	3.74441
3	5.335	VV S	0.0377	614.52826	271.97543	0.48907
4	5.348	BP T	3.95e-3	7.13059	24.83775	0.00567
5	5.376	VV T	0.0138	1769.33398	1608.52393	1.40811
6	5.412	VV T	4.77e-3	23.98284	74.29967	0.01909
7	5.443	VV S	0.0168	2449.17700	1879.26489	1.94915
8	5.478	VV S	0.0176	4960.27148	4687.84424	3.94758
9	5.513	VB S	0.0220	230.51511	474.20206	0.18345
10	5.597	BV	0.0144	545.18903	461.42691	0.43388
11	5.621	VV	8.03e-3	263.28818	436.85092	0.20954
12	5.625	VV	3.38e-3	115.58318	485.79211	0.09199
13	5.634	VV	8.89e-3	385.40747	616.68616	0.30672
14	5.646	VV	7.01e-3	289.18741	561.33459	0.23015
15	5.699	VV S	0.0300	6725.63525	2867.26196	5.35253
16	5.762	VV S	0.0449	5697.70313	1852.89087	4.53446
17	5.948	VV S	0.0859	1.63541e4	3171.29956	13.01529

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.016	VBAS	0.2394	3.50096e4	1779.35242	27.86207
19	6.066	BV T	2.83e-3	10.84731	63.86246	0.00863
20	6.093	VV T	6.14e-3	129.72948	283.31894	0.10324
21	6.098	VV T	9.67e-3	176.27386	303.70758	0.14029
22	6.113	VV T	7.88e-3	182.03522	291.68570	0.14487
23	6.121	VV T	5.82e-3	102.01775	291.99448	0.08119
24	6.139	VV T	0.0177	516.81470	361.71378	0.41130
25	6.163	VV T	6.48e-3	192.45006	400.95340	0.15316
26	6.180	VV T	0.0125	524.72266	521.98663	0.41760
27	6.211	VV T	0.0275	2357.96460	1054.64880	1.87656
28	6.256	PV T	0.0105	93.84215	149.50684	0.07468
29	6.273	PV T	7.71e-3	65.97734	142.55356	0.05251
30	6.282	PV T	3.90e-3	45.92461	172.67366	0.03655
31	6.291	PV T	5.67e-3	96.50997	242.97028	0.07681
32	6.306	PV T	0.0196	631.15558	396.33902	0.50230
33	6.336	PV T	4.53e-3	67.92892	201.73758	0.05406
34	6.343	PV T	5.94e-3	81.88512	229.94449	0.06517
35	6.374	PV T	0.0235	1280.03821	647.01489	1.01871
36	6.412	PV T	0.0113	408.85263	454.01154	0.32538
37	6.437	PV T	0.0156	946.27148	726.44202	0.75308
38	6.473	PV T	0.0277	2440.11572	1074.74756	1.94194
39	6.498	PV T	0.0106	410.90213	644.27783	0.32701
40	6.512	PV T	0.0160	952.69916	751.55957	0.75820
41	6.535	PV T	0.0174	496.17166	340.54654	0.39487
42	6.583	PV T	0.0154	268.27432	208.66486	0.21350
43	6.594	PV T	5.87e-3	68.41863	194.22932	0.05445
44	6.608	PV T	9.63e-3	165.22594	213.58578	0.13149
45	6.652	PV T	0.0156	1611.55725	1289.96582	1.28254
46	6.664	PV T	0.0167	2105.75488	1504.91528	1.67584
47	6.702	PV T	0.0231	1422.99915	759.75031	1.13248
48	6.764	PV T	0.0250	3565.46265	1765.00708	2.83754
49	6.795	PV T	9.25e-3	330.01627	444.91214	0.26264
50	6.821	PV T	0.0171	972.53900	679.86273	0.77399
51	6.840	PV T	0.0141	532.36920	453.39447	0.42368
52	6.866	PV T	4.01e-3	33.22005	138.24287	0.02644
53	6.871	PP T	6.55e-3	52.49548	133.59604	0.04178
54	6.922	PV T	0.0285	2538.86475	1077.16919	2.02053
55	6.948	PV T	5.75e-3	218.90500	515.96826	0.17421
56	6.960	PV T	0.0119	502.34103	539.62335	0.39978
57	6.975	PV T	6.23e-3	150.67703	335.83090	0.11991
58	6.981	PB T	0.0116	223.66562	320.39297	0.17800
59	7.052	BV T	3.42e-3	10.81166	52.66645	0.00860
60	7.062	PV T	4.98e-3	23.90230	66.79254	0.01902
61	7.101	PV T	0.0307	2740.85352	1067.82129	2.18128
62	7.184	PV T	0.0182	883.97229	605.62469	0.70350
63	7.208	PV T	0.0228	945.30939	539.83337	0.75232
64	7.245	PV T	4.24e-3	24.06749	81.72382	0.01915
65	7.249	PV T	3.35e-3	17.19361	85.50167	0.01368
66	7.254	PV T	5.17e-3	22.68888	73.13305	0.01806
67	7.260	PV T	6.92e-4	2.66501	64.19476	0.00212
68	7.294	PV T	0.0178	1661.01917	1152.41541	1.32191
69	7.332	PB T	0.0195	757.58923	493.23938	0.60292
70	7.412	PV T	0.0194	1148.61829	719.16949	0.91412
71	7.432	PV T	0.0193	1189.32812	765.79584	0.94652
72	7.508	PV T	0.0375	1938.86328	613.49939	1.54303
73	7.553	PV T	7.80e-3	105.07073	170.35320	0.08362
74	7.568	PV T	4.03e-3	18.40780	76.19604	0.01465
75	7.575	PV T	5.57e-3	22.87573	68.50731	0.01821
76	7.591	PV T	5.10e-3	23.53940	67.46799	0.01873
77	7.637	PV T	0.0398	4576.41895	1410.80383	3.64210
78	7.727	PP T	0.0320	2096.28491	798.50012	1.66831
79	7.793	PP T	8.85e-3	67.03113	94.82795	0.05335

Totals : 1.25653e5 5.45046e4

Results obtained with enhanced integrator!

Signal 2: FID2 B,

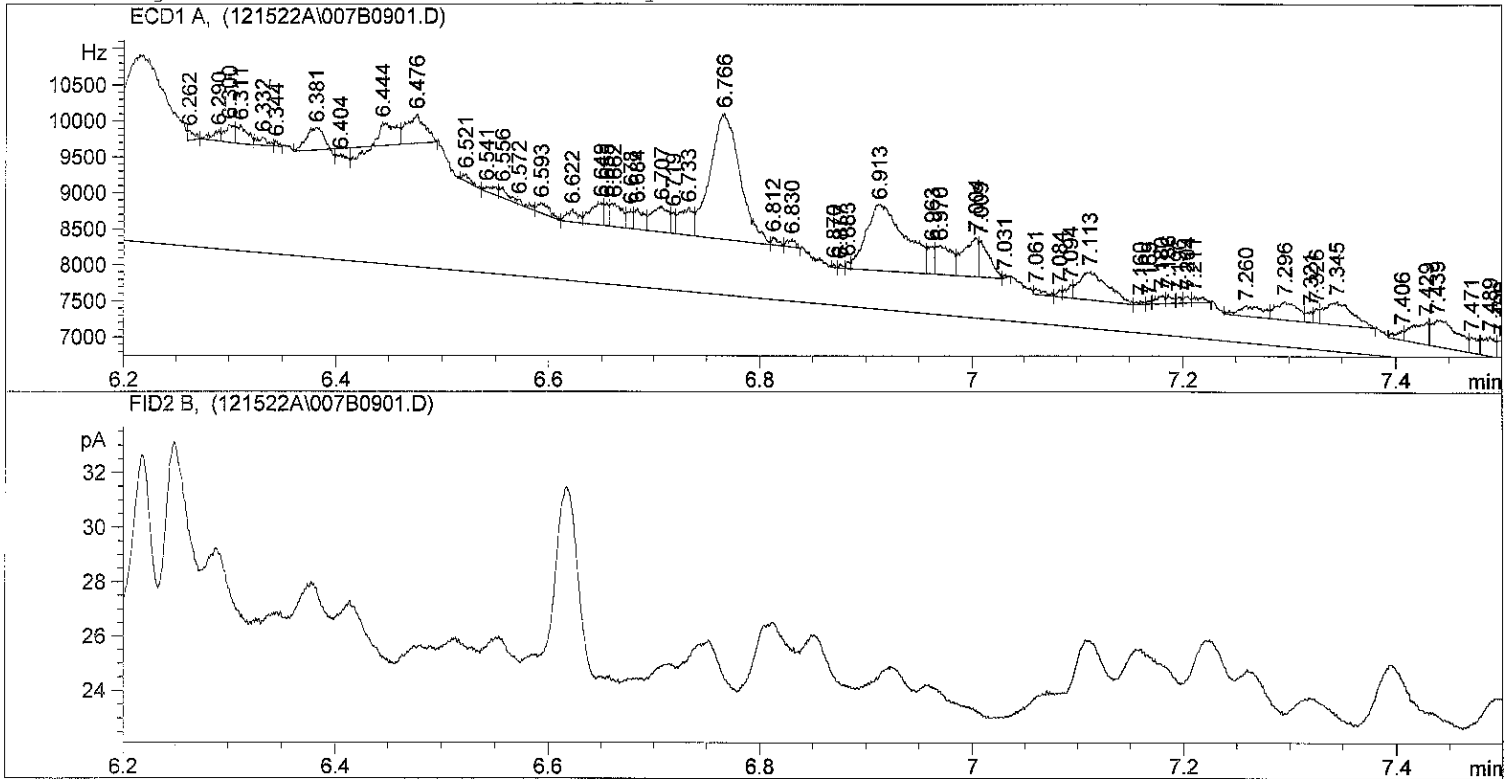
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\*\*\* End of Report \*\*\*



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Injection Date : 12/15/2022 4:16:30 PM      Seq. Line : 9
Sample Name    : 22L0246 09                  Location  : Vial 7
Acq. Operator : TW                          Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
    
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 Area Percent Report  
 =====

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Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
    
```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.240	BV	4.88e-3	33.40404	100.44788	0.01731
2	5.253	VV	0.0112	202.68810	231.61305	0.10501
3	5.277	VV	7.01e-3	94.72166	190.35092	0.04907
4	5.304	VV	0.0181	1142.23743	799.90845	0.59176
5	5.345	VV	0.0163	606.83081	467.34729	0.31438
6	5.378	VV S	0.0202	4635.87744	2932.69116	2.40173
7	5.443	VV S	0.0335	5211.50879	2596.50635	2.69995
8	5.481	VV S	0.0212	8045.30859	6312.03955	4.16806
9	5.703	VV S	0.0854	2.31593e4	4519.52734	11.99820
10	5.886	VV S	0.1240	2.89383e4	3888.74512	14.99219
11	5.955	VV S	0.0433	1.09952e4	4235.84912	5.69633
12	6.024	VBAS	0.4551	9.26081e4	2678.57178	47.97783
13	6.262	BV T	7.31e-3	55.42585	126.41887	0.02871
14	6.290	VV T	7.31e-3	82.85645	143.95613	0.04293
15	6.300	VV X	7.88e-3	150.59332	248.15977	0.07802
16	6.311	VV X	0.0120	183.46497	254.69151	0.09505
17	6.332	VV X	9.00e-3	71.08707	109.12148	0.03683

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.344	VB X	4.66e-3	16.74219	59.92081	0.00867
19	6.381	BV T	0.0129	326.00192	309.67371	0.16889
20	6.404	PV T	0.0183	94.21823	85.62946	0.04881
21	6.444	PV T	9.56e-3	232.53035	317.04745	0.12047
22	6.476	VB T	0.0146	472.66913	399.73538	0.24488
23	6.521	BV T	6.22e-3	48.21029	99.99249	0.02498
24	6.541	PV T	0.0156	68.52904	73.22348	0.03550
25	6.556	PV T	7.35e-3	85.32385	147.45390	0.04420
26	6.572	PV T	9.71e-3	40.74702	69.90415	0.02111
27	6.593	PV T	0.0100	115.04855	142.76605	0.05960
28	6.622	PV T	9.17e-3	122.72599	175.20703	0.06358
29	6.649	PV T	0.0103	265.96265	313.04678	0.13779
30	6.655	PV T	3.65e-3	83.29313	318.43204	0.04315
31	6.662	PV T	9.77e-3	260.24759	331.18735	0.13483
32	6.678	PV T	5.62e-3	103.50170	261.61493	0.05362
33	6.684	PV T	7.91e-3	181.32951	289.41870	0.09394
34	6.707	PV T	0.0129	387.71649	367.55878	0.20087
35	6.719	PV T	4.04e-3	88.16108	298.58716	0.04567
36	6.733	PV T	0.0113	344.71786	383.22519	0.17859
37	6.766	PV T	0.0231	3370.94092	1748.60645	1.74640
38	6.812	PV T	6.77e-3	43.88113	107.99982	0.02273
39	6.830	PB T	6.42e-3	57.12486	110.63945	0.02959
40	6.870	BV T	2.16e-3	6.91446	53.34438	0.00358
41	6.877	PV T	3.46e-3	12.95067	52.82702	0.00671
42	6.883	PV T	3.51e-3	19.65532	93.29525	0.01018
43	6.913	PV T	0.0309	2344.73950	910.02020	1.21475
44	6.963	PV T	5.58e-3	163.29877	382.76770	0.08460
45	6.970	PV T	0.0131	424.34433	395.17667	0.21984
46	7.004	PV T	0.0121	528.40204	534.88043	0.27375
47	7.009	PV T	0.0116	343.40677	494.21414	0.17791
48	7.031	PB T	3.49e-3	5.70550	27.22624	0.00296
49	7.061	BV T	0.0104	50.87243	81.16683	0.02636
50	7.084	PV T	4.19e-3	27.92786	96.01401	0.01447
51	7.094	PV T	6.15e-3	77.89244	177.35838	0.04035
52	7.113	PV T	0.0228	749.54071	393.60742	0.38832
53	7.160	PV T	4.67e-3	17.66664	48.23501	0.00915
54	7.169	PV T	4.44e-3	11.42432	42.84623	0.00592
55	7.180	PV T	7.91e-3	61.32901	106.68492	0.03177
56	7.186	PV T	5.04e-3	46.58592	122.50502	0.02413
57	7.196	PV T	5.30e-3	25.64651	80.63752	0.01329
58	7.204	PV T	5.26e-3	33.23114	95.54398	0.01722
59	7.211	PB T	8.36e-3	58.22480	85.29385	0.03016
60	7.260	BV T	0.0217	237.64024	136.88132	0.12312
61	7.296	PV T	0.0174	360.95514	257.44171	0.18700
62	7.321	PV T	6.90e-3	62.36604	150.57483	0.03231
63	7.326	PV T	4.81e-3	69.52475	202.21936	0.03602
64	7.345	PB T	0.0210	577.45483	327.80466	0.29916
65	7.406	BV T	6.52e-3	63.15189	124.45809	0.03272
66	7.429	PV T	0.0125	322.98383	316.00024	0.16733
67	7.439	PV T	0.0212	651.90143	365.56464	0.33773
68	7.471	PV T	6.65e-3	118.92884	221.82779	0.06161
69	7.489	PV T	0.0101	218.37968	269.54953	0.11314
70	7.499	PV T	6.86e-3	103.32839	251.13425	0.05353
71	7.505	PV T	3.59e-3	50.91781	236.46266	0.02638
72	7.512	PV T	0.0160	251.09967	261.77832	0.13009
73	7.534	PV T	0.0115	231.39970	272.62808	0.11988
74	7.543	PV T	5.82e-3	121.85587	272.40790	0.06313
75	7.551	PV T	4.25e-3	62.95725	247.00066	0.03262
76	7.557	PP T	0.0119	257.04922	264.56967	0.13317
77	7.587	PV T	3.01e-3	4.70044	26.03180	0.00244
78	7.643	PV T	0.0185	357.53040	238.58884	0.18523
79	7.648	PV T	8.53e-3	155.55139	228.90875	0.08059
80	7.663	PV T	9.21e-3	132.10252	184.46364	0.06844
81	7.680	PV T	0.0100	139.64395	169.25995	0.07235
82	7.693	PV T	9.13e-3	120.90677	161.58717	0.06264

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.709	PV T	0.0109	146.33057	166.15646	0.07581
84	7.723	PV T	3.61e-3	38.79388	140.86682	0.02010
85	7.730	PB T	0.0103	77.86240	126.46206	0.04034
86	7.775	BV T	3.80e-3	14.20477	62.30178	0.00736
87	7.780	PP T	0.0110	36.90540	55.79793	0.01912

Totals : 1.93023e5 4.62592e4

Results obtained with enhanced integrator!

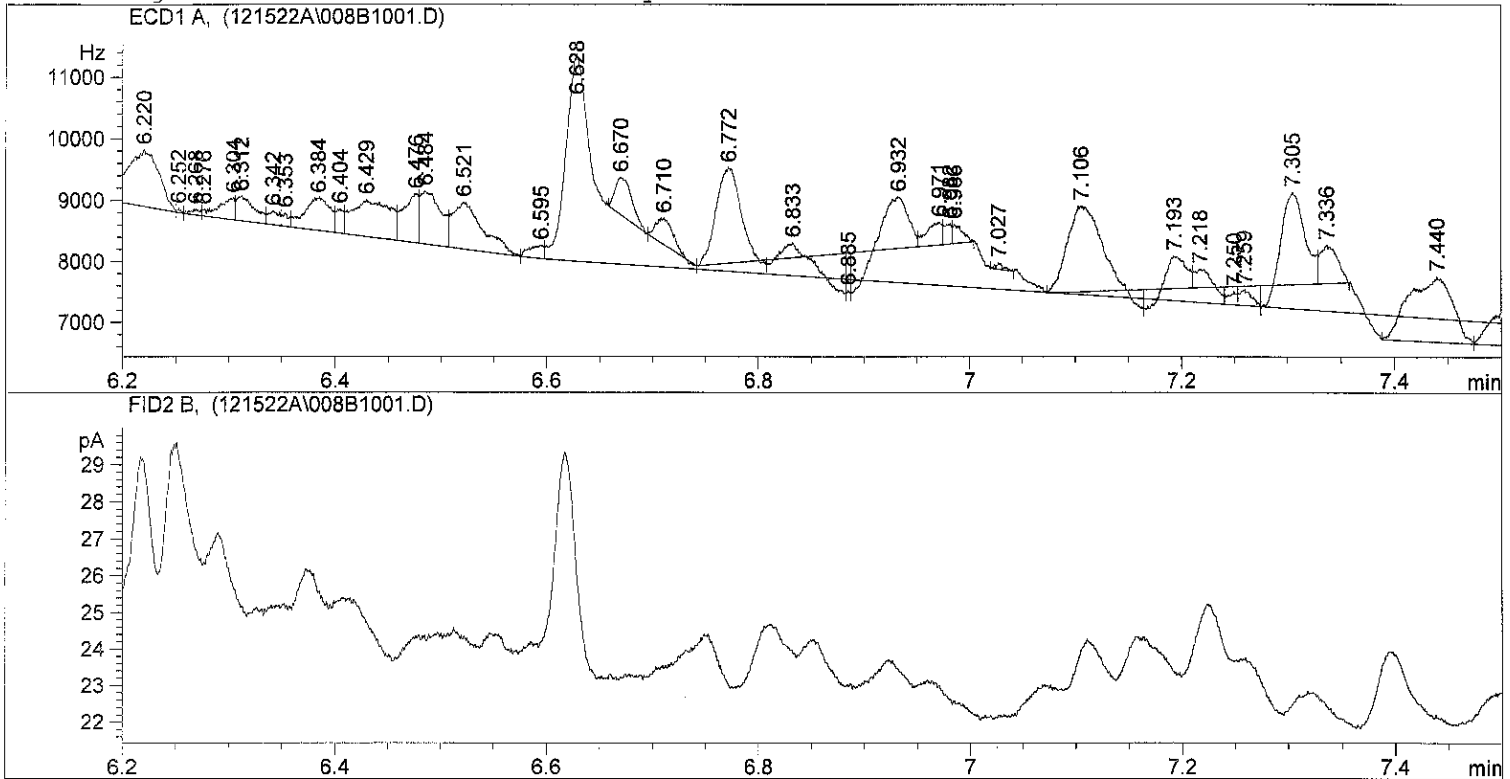
Signal 2: FID2 B,

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\*\*\* End of Report \*\*\*

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Injection Date : 12/15/2022 4:27:42 PM      Seq. Line : 10
Sample Name    : 22L0246 10                  Location  : Vial 8
Acq. Operator  : TW                          Inj       : 1
                                                Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
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 Area Percent Report  
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Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.252	BP	8.94e-3	209.75824	286.56891	0.18840
2	5.305	VV S	0.0183	3277.96289	2350.19141	2.94414
3	5.381	VV S	0.0247	6940.99121	3671.02661	6.23412
4	5.446	VV S	0.0253	3034.60693	1999.84473	2.72556
5	5.481	VV S	0.0191	6206.66162	5418.99561	5.57458
6	5.519	VV S	0.0415	2161.00684	683.55554	1.94093
7	5.596	PV T	0.0150	892.65466	733.16754	0.80175
8	5.602	VV T	0.0101	637.69940	786.01764	0.57276
9	5.621	VV T	6.11e-3	202.70247	414.18790	0.18206
10	5.631	VV T	8.80e-3	290.52173	423.67392	0.26094
11	5.640	VV T	5.64e-3	141.18755	326.55188	0.12681
12	5.654	VV T	3.15e-3	15.94901	72.85641	0.01432
13	5.658	VV T	3.68e-3	15.73639	71.18914	0.01413
14	5.702	VV S	0.0221	3921.25488	2390.77515	3.52192
15	5.956	VV S	0.1003	1.24910e4	2075.13989	11.21890
16	6.021	VB S	0.0354	1843.97485	841.27350	1.65619
17	6.085	BV	5.48e-3	23.68602	54.35336	0.02127

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.101	VV	0.0122	239.72253	249.40543	0.21531
19	6.119	VV	4.90e-3	60.55154	181.27361	0.05439
20	6.126	VV	4.31e-3	39.00048	137.48827	0.03503
21	6.131	VV	2.60e-3	22.45780	131.15813	0.02017
22	6.143	VV	0.0111	261.56042	285.43033	0.23492
23	6.171	VV	0.0104	277.70010	370.06516	0.24942
24	6.182	VV	0.0138	533.65375	479.24640	0.47931
25	6.220	VV	0.0236	1819.89563	916.98560	1.63456
26	6.252	VP	3.05e-3	12.44025	59.19004	0.01117
27	6.268	VV	8.14e-3	55.11515	90.03648	0.04950
28	6.276	VV	3.38e-3	22.52209	101.71729	0.02023
29	6.304	VV	0.0136	351.94894	349.19272	0.31611
30	6.312	VV	0.0148	476.03256	390.72635	0.42755
31	6.342	VV	8.63e-3	152.03653	220.81766	0.13655
32	6.353	VV	5.78e-3	92.03481	215.43361	0.08266
33	6.384	VV	0.0201	871.07117	525.27008	0.78236
34	6.404	VV	6.82e-3	190.06572	394.46417	0.17071
35	6.429	VV	0.0300	1473.69849	600.30194	1.32362
36	6.476	VV	0.0123	796.41034	793.11371	0.71530
37	6.484	VV	0.0163	1156.35962	858.37891	1.03860
38	6.521	VP	0.0247	1548.56836	761.60669	1.39086
39	6.595	VV	0.0114	196.81850	221.84840	0.17677
40	6.628	VBAS	0.1058	3.02085e4	3383.22778	27.13211
41	6.670	BV T	0.0150	687.97308	600.93848	0.61791
42	6.710	PV T	0.0140	469.79199	427.99667	0.42195
43	6.772	PV T	0.0191	2471.16382	1555.49280	2.21950
44	6.833	PP T	0.0000	612.80988	242.40257	0.55040
45	6.885	PV T	5.25e-3	195.46939	619.95483	0.17556
46	6.932	PV T	0.0129	797.98553	839.99463	0.71672
47	6.971	PV T	0.0132	382.03162	366.00323	0.34313
48	6.982	PV T	7.40e-3	167.24641	325.20627	0.15021
49	6.986	PB T	0.0108	202.33580	312.89459	0.18173
50	7.027	BB T	6.76e-3	54.61150	103.51269	0.04905
51	7.106	BV T	0.0248	2933.39038	1402.24536	2.63466
52	7.193	PV T	9.87e-3	420.13501	528.56293	0.37735
53	7.218	PV T	0.0100	239.18851	303.46198	0.21483
54	7.250	PV T	0.0142	100.33307	85.76127	0.09012
55	7.259	PV T	0.0461	217.06424	55.39692	0.19496
56	7.305	PV T	0.0166	2024.92053	1499.51807	1.81870
57	7.336	PB T	0.0139	710.11713	621.03510	0.63780
58	7.440	PV T	0.0333	2993.53516	1062.45032	2.68868
59	7.527	PV T	0.0323	2559.36670	935.23602	2.29872
60	7.584	PV T	0.0162	325.35165	242.84064	0.29222
61	7.644	PV T	0.0397	7091.44189	2116.81299	6.36925
62	7.739	PP T	0.0268	2495.54004	1139.09082	2.24140
63	7.797	PP T	0.0000	21.33220	21.94068	0.01916

Totals : 1.11339e5 4.97245e4

Results obtained with enhanced integrator!

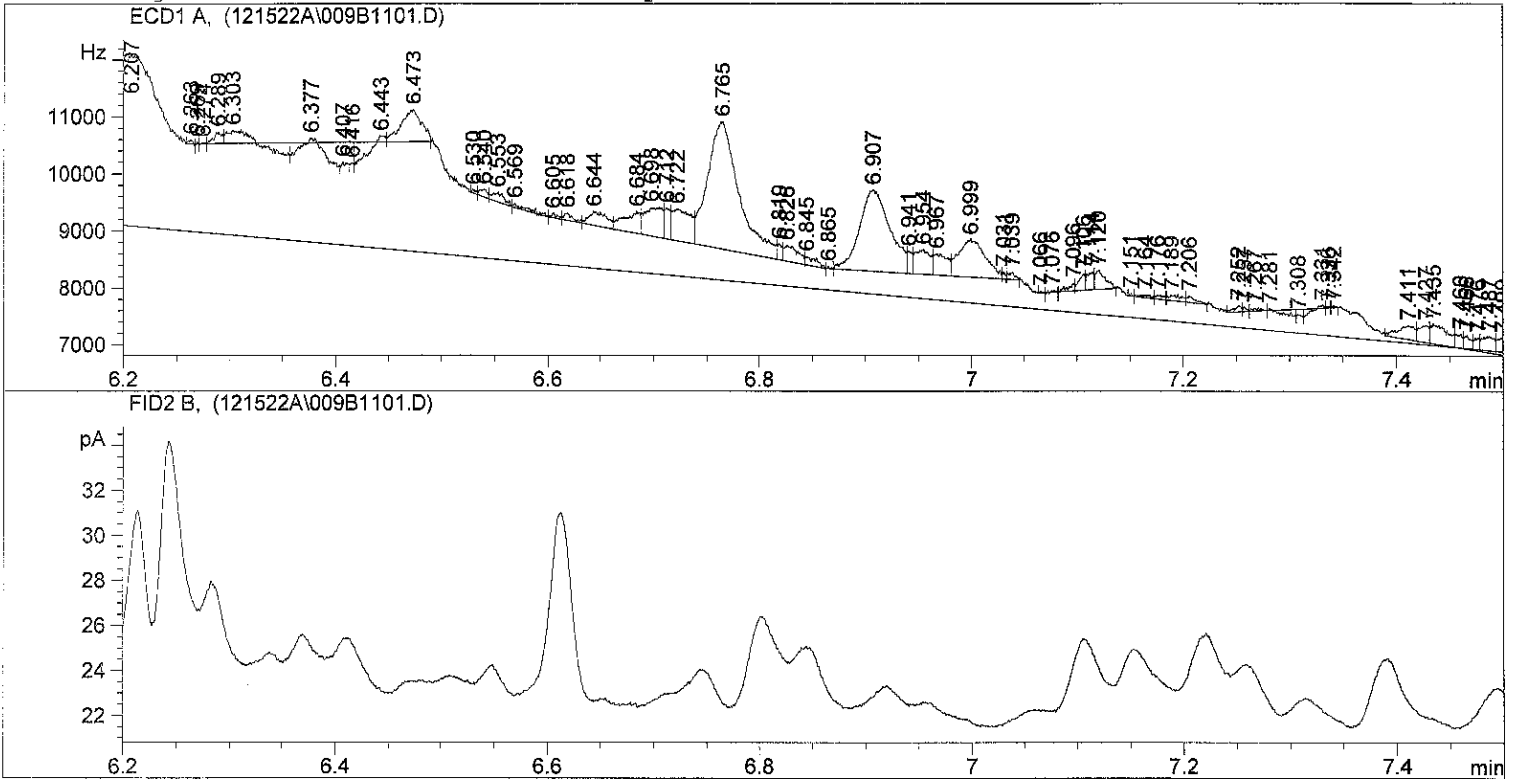
Signal 2: FID2 B,

\*\*\* End of Report \*\*\*

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Injection Date : 12/15/2022 4:38:56 PM      Seq. Line : 11
Sample Name    : 22L0246 11                  Location  : Vial 9
Acq. Operator  : TW                          Inj       : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
    
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Area Percent Report

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Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.254	BP	0.0103	195.56125	235.12042	0.10053
2	5.284	VV	7.66e-3	191.06371	315.89017	0.09822
3	5.303	VV	0.0180	1337.26086	917.91919	0.68744
4	5.338	VV	9.55e-3	291.75558	398.16269	0.14998
5	5.376	VV	0.0230	3610.14526	1893.19873	1.85585
6	5.409	VV	0.0145	1467.23718	1215.13953	0.75426
7	5.442	VV S	0.0219	6139.50586	3906.86963	3.15610
8	5.480	VV S	0.0258	3375.84277	2184.90918	1.73540
9	5.882	VV S	0.1705	5.59203e4	3916.89526	28.74666
10	5.951	VV S	0.0429	1.26042e4	4901.71729	6.47935
11	6.019	VV S	0.1218	2.36862e4	2998.21655	12.17625
12	6.207	VBAS	0.3603	6.49650e4	3004.99194	33.39624
13	6.263	BV T	4.04e-3	16.53612	68.24918	0.00850
14	6.269	PV T	0.0000	7.06954e-1	21.21781	0.00036
15	6.274	PV T	1.94e-3	2.37314	20.36771	0.00122
16	6.289	PV T	6.67e-3	103.86420	199.73036	0.05339
17	6.303	PV T	2.51e-3	41.30170	227.87646	0.02123

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.377	PV T	0.0000	429.79224	77.27583	0.22094
19	6.407	PV T	9.86e-3	204.12982	345.22012	0.10494
20	6.416	PV T	4.83e-3	105.39339	363.47220	0.05418
21	6.443	PV T	0.0000	239.31822	101.13106	0.12303
22	6.473	PB T	0.0176	779.39191	559.64807	0.40066
23	6.530	BV T	4.38e-3	16.16592	52.62367	0.00831
24	6.540	PV T	6.71e-3	65.61362	134.11557	0.03373
25	6.553	PV T	9.69e-3	120.97702	155.32799	0.06219
26	6.569	PV T	0.0141	61.03173	71.93030	0.03137
27	6.605	PV T	6.29e-3	30.03205	63.76453	0.01544
28	6.618	PV T	7.76e-3	67.85296	120.74167	0.03488
29	6.644	PV T	0.0149	290.19183	233.66997	0.14918
30	6.684	PV T	0.0125	382.82916	370.57999	0.19680
31	6.698	PV T	0.0145	595.67126	498.24661	0.30621
32	6.712	PV T	5.11e-3	207.57639	536.80298	0.10671
33	6.722	PV T	0.0154	685.71515	548.01202	0.35250
34	6.765	PV T	0.0260	4647.15723	2225.08887	2.38894
35	6.819	PV T	4.74e-3	77.11787	271.03363	0.03964
36	6.826	PV T	0.0160	260.93661	271.79492	0.13414
37	6.845	PV T	0.0127	108.81992	142.25015	0.05594
38	6.865	PV T	2.44e-3	5.88861	37.26999	0.00303
39	6.907	PV T	0.0237	2802.72241	1415.54968	1.44078
40	6.941	PV T	5.60e-3	128.36530	382.33618	0.06599
41	6.954	PV T	0.0118	410.89224	426.27530	0.21123
42	6.967	PV T	0.0117	334.42340	363.53067	0.17192
43	6.999	PV T	0.0225	1173.29163	643.05145	0.60315
44	7.031	PV T	2.84e-3	20.70432	121.43804	0.01064
45	7.039	PB T	6.49e-3	57.62131	118.05860	0.02962
46	7.066	BV T	1.29e-3	2.02804	26.23698	0.00104
47	7.076	PV T	0.0000	2.33777	19.25946	0.00120
48	7.096	PV T	5.28e-3	53.79948	134.18913	0.02766
49	7.106	PV T	5.63e-3	113.05499	273.11432	0.05812
50	7.114	PV T	5.57e-3	132.35971	310.79944	0.06804
51	7.120	PB T	8.60e-3	219.62477	328.58591	0.11290
52	7.151	BV T	1.96e-3	5.33503	39.83987	0.00274
53	7.164	PV T	8.87e-3	34.19999	50.68109	0.01758
54	7.176	PV T	8.02e-3	35.34636	73.48363	0.01817
55	7.189	PV T	0.0111	81.21339	88.41396	0.04175
56	7.206	PB T	9.54e-3	63.39336	110.78238	0.03259
57	7.252	BV T	6.00e-3	47.64667	102.93591	0.02449
58	7.257	PV T	3.87e-3	18.78574	80.84121	0.00966
59	7.267	PV T	9.03e-3	23.70644	43.73270	0.01219
60	7.281	PV T	0.0000	86.89787	23.00681	0.04467
61	7.308	PV T	8.28e-3	47.67837	95.96589	0.02451
62	7.331	PV T	0.0000	36.36359	47.30616	0.01869
63	7.336	PV T	4.31e-3	4.65916	18.02166	0.00240
64	7.342	PB T	3.05e-3	8.27716	36.40279	0.00425
65	7.411	BV T	0.0139	267.54321	241.05721	0.13753
66	7.427	PV T	8.10e-3	194.38379	294.53143	0.09993
67	7.435	PV T	0.0135	393.72141	350.81497	0.20240
68	7.460	PV T	6.87e-3	100.08662	242.94150	0.05145
69	7.466	PV T	5.61e-3	103.26843	240.28194	0.05309
70	7.476	PV T	4.60e-3	77.92464	227.54448	0.04006
71	7.487	PV T	9.58e-3	223.38019	283.95505	0.11483
72	7.499	PV T	0.0155	372.18890	299.59079	0.19133
73	7.518	PV T	9.55e-3	179.35461	313.13553	0.09220
74	7.531	PV T	8.11e-3	192.43784	315.78149	0.09893
75	7.539	PV T	7.54e-3	203.79745	332.97220	0.10477
76	7.552	PV T	0.0129	370.26639	351.14529	0.19034
77	7.632	PV T	0.0197	497.58185	307.84824	0.25579
78	7.638	PV T	4.38e-3	106.40062	328.79462	0.05470
79	7.649	PV T	0.0174	512.71356	351.73630	0.26357
80	7.672	PV T	6.19e-3	114.54620	308.35196	0.05888
81	7.680	PV T	0.0107	287.39810	339.19888	0.14774
82	7.693	PV T	5.31e-3	92.05868	289.03583	0.04732

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.704	PV T	0.0154	425.94226	345.07126	0.21896
84	7.722	PV T	0.0193	406.59811	253.32639	0.20902
85	7.759	PV T	0.0118	86.23979	121.78368	0.04433
86	7.779	PBAT	8.05e-3	44.97274	70.39835	0.02312

Totals : 1.94528e5 4.51896e4

Results obtained with enhanced integrator!

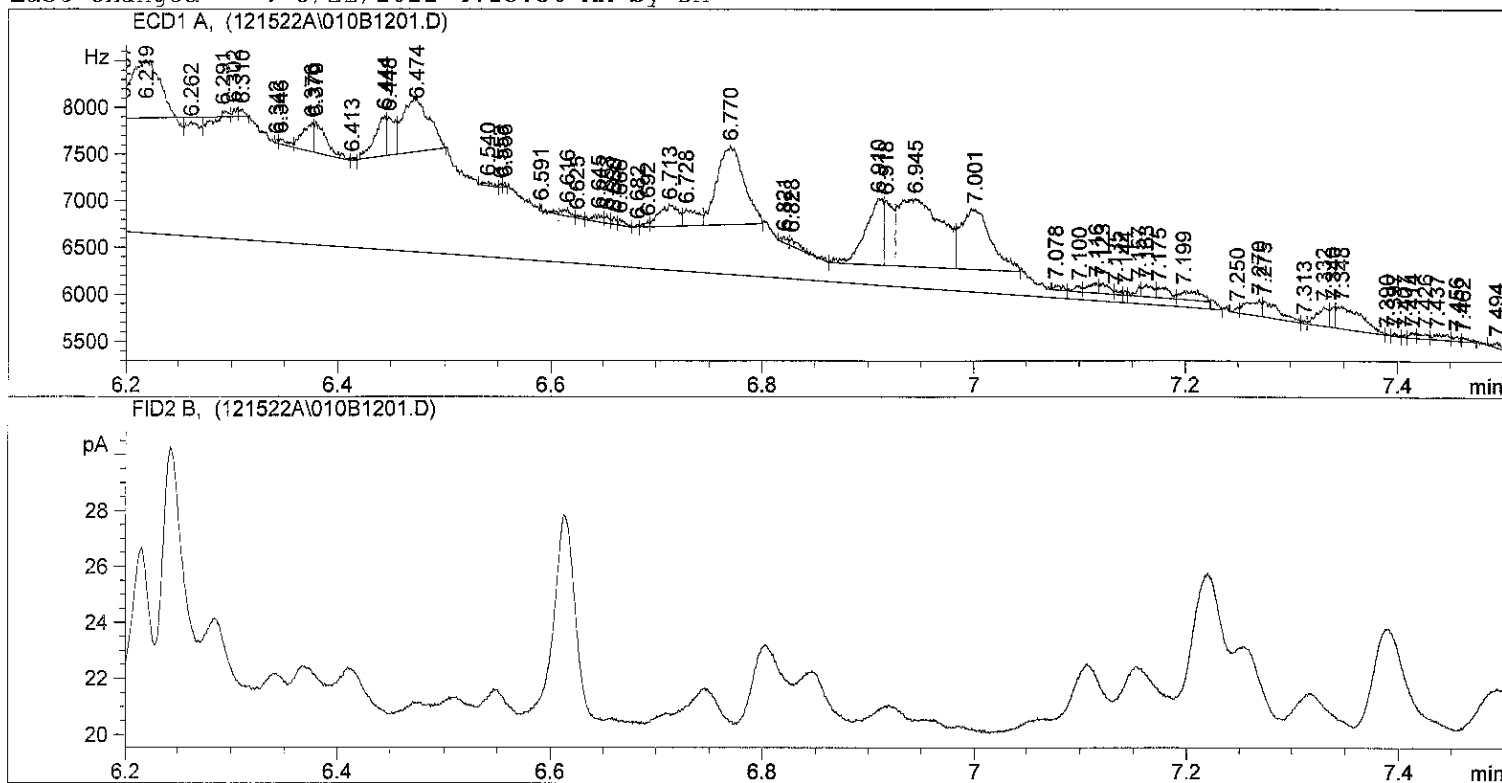
Signal 2: FID2 B,

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\*\*\* End of Report \*\*\*



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Injection Date : 12/15/2022 4:49:53 PM      Seq. Line : 12
Sample Name    : 22L0246 12                 Location  : Vial 10
Acq. Operator  : TW                          Inj       : 1
                                           Inj Volume: 1 µl
Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
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 Area Percent Report  
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Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.205	BP	5.53e-3	54.72920	135.09766	0.04495
2	5.227	VP	4.86e-3	21.27003	55.69523	0.01747
3	5.243	VV	5.55e-3	33.43534	75.80029	0.02746
4	5.255	VV	7.15e-3	45.48081	89.19646	0.03735
5	5.266	VV	4.48e-3	21.30814	64.10925	0.01750
6	5.287	VV	7.91e-3	133.42090	213.04593	0.10958
7	5.294	VP	0.0110	164.78563	184.70009	0.13534
8	5.331	VV	4.51e-3	15.48391	62.09199	0.01272
9	5.375	VV	0.0161	972.22412	739.77057	0.79850
10	5.384	VV	3.42e-3	171.76736	709.68127	0.14107
11	5.390	VV	8.80e-3	506.51590	739.07123	0.41601
12	5.400	VV	0.0127	775.56757	745.44562	0.63698
13	5.418	VV	3.89e-3	196.73050	657.38391	0.16158
14	5.445	VB S	0.4007	7.76540e4	2269.81006	63.77819
15	5.477	EV T	5.47e-3	57.31278	137.39525	0.04707
16	5.493	VV T	9.70e-3	38.83459	66.70714	0.03190
17	5.518	VV T	0.0140	523.90765	455.21655	0.43029

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.559	PV T	0.0115	142.09520	160.31790	0.11670
19	5.597	PV T	0.0198	746.95135	453.32254	0.61348
20	5.620	VV T	7.95e-3	244.26575	398.46042	0.20062
21	5.629	VV T	4.77e-3	168.00894	470.12405	0.13799
22	5.636	VV T	0.0115	324.04285	468.82556	0.26614
23	5.654	VV T	0.0153	626.79272	490.95944	0.51479
24	5.700	VV T	0.0255	2351.46167	1110.69238	1.93128
25	5.720	VV T	4.27e-3	236.25157	751.37518	0.19404
26	5.740	VV T	0.0181	1269.22485	843.83630	1.04243
27	5.759	VV T	0.0193	1214.80542	748.69617	0.99773
28	5.782	VV T	4.51e-3	148.85138	549.97430	0.12225
29	5.793	VV T	0.0124	597.08160	590.94965	0.49039
30	5.821	VV T	0.0255	2038.74170	955.50873	1.67444
31	5.849	VV T	3.99e-3	184.16362	769.15460	0.15126
32	5.883	VV T	0.0257	3114.15015	1521.10901	2.55769
33	5.908	VV T	0.0214	1912.61963	1063.05615	1.57086
34	5.954	VV T	0.0233	3518.88135	1877.87244	2.89010
35	5.982	VV T	0.0101	453.09512	751.20148	0.37213
36	5.995	VV T	7.19e-3	426.13004	731.72864	0.34999
37	6.021	VV T	0.0210	1876.47791	1075.24878	1.54117
38	6.039	VV T	7.73e-3	326.89877	704.62109	0.26849
39	6.054	VV T	0.0101	644.69427	773.36469	0.52950
40	6.063	VV T	7.08e-3	396.94641	714.61102	0.32602
41	6.075	VV T	4.78e-3	203.54297	597.20166	0.16717
42	6.086	VV T	9.57e-3	494.66049	673.12897	0.40627
43	6.096	VV T	0.0156	864.87811	672.20605	0.71034
44	6.120	VV T	6.79e-3	336.11578	633.87048	0.27606
45	6.126	VV T	0.0144	763.10577	636.78400	0.62675
46	6.152	VV T	3.93e-3	90.12729	382.58279	0.07402
47	6.162	VV T	0.0100	230.78268	384.62448	0.18954
48	6.174	VV T	8.16e-3	259.90735	414.22339	0.21347
49	6.178	VV T	0.0129	323.67883	419.32428	0.26584
50	6.197	VV T	6.00e-3	160.96249	360.85486	0.13220
51	6.219	VV T	0.0221	1145.22620	627.37921	0.94059
52	6.262	PV T	0.0210	89.50833	51.58097	0.07351
53	6.291	PV T	0.0000	29.54714	68.11468	0.02427
54	6.302	VV T	3.90e-3	24.85974	87.80242	0.02042
55	6.310	VB T	5.11e-3	24.88277	81.10221	0.02044
56	6.342	BV T	2.36e-3	6.10665	43.14539	0.00502
57	6.346	PV T	0.0100	33.37379	55.63272	0.02741
58	6.376	PV T	9.56e-3	217.82262	311.45633	0.17890
59	6.379	PV T	0.0128	255.61255	332.51920	0.20994
60	6.413	PV T	2.63e-3	4.82129	30.49823	0.00396
61	6.444	PV T	0.0103	331.85654	435.20837	0.27256
62	6.448	VV T	8.86e-3	219.38005	412.54922	0.18018
63	6.474	PB T	0.0207	985.46387	589.43256	0.80937
64	6.540	BV T	6.46e-3	21.18351	46.97723	0.01740
65	6.553	PV T	2.45e-3	5.00630	34.00022	0.00411
66	6.556	PB T	2.21e-3	5.50714	41.62235	0.00452
67	6.591	BV T	4.30e-3	13.82122	53.56028	0.01135
68	6.616	PV T	6.72e-3	37.79943	79.89937	0.03105
69	6.625	PV T	6.05e-3	12.25703	33.76579	0.01007
70	6.645	PV T	7.91e-3	46.51531	83.36758	0.03820
71	6.653	PV T	3.53e-3	23.39379	87.25317	0.01921
72	6.660	PV T	4.33e-3	20.53814	79.04482	0.01687
73	6.666	PV T	6.09e-3	25.39180	69.47598	0.02085
74	6.682	PV T	2.85e-3	4.73332	27.70804	0.00389
75	6.692	PV T	4.04e-3	18.45023	59.15541	0.01515
76	6.713	PV T	0.0150	279.28958	225.55411	0.22938
77	6.728	PV T	0.0115	165.66122	177.84915	0.13606
78	6.770	PB T	0.0213	1495.97144	842.18353	1.22866
79	6.821	BV T	4.91e-3	24.50127	66.26534	0.02012
80	6.828	PV T	8.32e-3	58.27373	88.09760	0.04786
81	6.910	PV T	0.0141	825.70880	712.56873	0.67816
82	6.918	PV T	0.0100	419.26523	695.46088	0.34435

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	6.945	PV T	0.0334	2036.86450	725.20551	1.67290
84	7.001	PB T	0.0254	1288.74109	643.36353	1.05846
85	7.078	BV T	5.94e-3	27.02320	56.89393	0.02219
86	7.100	PV T	6.70e-3	26.84118	59.10140	0.02204
87	7.116	PV T	8.83e-3	66.08397	106.67153	0.05428
88	7.123	PV T	9.84e-3	66.09077	111.88651	0.05428
89	7.135	PV T	6.21e-3	15.74978	42.24689	0.01294
90	7.144	PV T	2.62e-3	7.69597	48.99204	0.00632
91	7.157	PV T	4.49e-3	34.44695	108.79792	0.02829
92	7.163	PV T	8.53e-3	87.29703	128.37659	0.07170
93	7.175	PV T	0.0136	90.05204	110.33591	0.07396
94	7.199	PB T	0.0160	127.91797	97.21049	0.10506
95	7.250	PV	3.61e-3	14.85778	57.66730	0.01220
96	7.270	VV	0.0110	155.05177	171.22192	0.12735
97	7.275	VP	0.0143	187.25040	164.10959	0.15379
98	7.313	VV	3.43e-3	7.04418	31.26266	0.00579
99	7.332	VV	9.35e-3	153.94238	205.20511	0.12643
100	7.340	VV	4.19e-3	69.46471	225.58676	0.05705
101	7.348	VP	0.0198	396.56381	238.96291	0.32570
102	7.390	VV	2.73e-3	2.77972	15.25857	0.00228
103	7.397	VP	3.66e-3	7.46522	34.01637	0.00613
104	7.407	VP	2.97e-3	5.76566	32.31736	0.00474
105	7.414	VV	5.72e-3	19.33930	52.28792	0.01588
106	7.426	VV	6.88e-3	31.59398	56.86519	0.02595
107	7.437	VV	0.0113	54.66923	58.71787	0.04490
108	7.456	VV	5.72e-3	20.39692	48.40356	0.01675
109	7.462	VB	6.13e-3	20.85929	44.02071	0.01713
110	7.494	BV	8.20e-3	36.57249	56.12715	0.03004
111	7.507	VV	6.81e-3	28.27016	69.21163	0.02322
112	7.523	VV	7.32e-3	27.29098	48.79773	0.02241
113	7.548	VP	0.0227	394.82642	208.04361	0.32428
114	7.622	VV	0.0112	137.52229	151.04155	0.11295
115	7.627	VV	3.93e-3	40.13105	149.59616	0.03296
116	7.632	VV	3.91e-3	42.53195	159.64473	0.03493
117	7.643	VV	7.75e-3	97.56728	173.81436	0.08013
118	7.655	VV	0.0107	165.29788	190.16714	0.13576
119	7.668	VV	6.93e-3	119.90990	214.07454	0.09848
120	7.676	VV	6.20e-3	113.01311	235.60884	0.09282
121	7.684	VB	0.0213	396.55234	229.95561	0.32569
122	7.725	BV	0.0159	145.92529	113.03713	0.11985
123	7.749	VB	9.57e-3	30.57042	53.22144	0.02511
124	7.792	PP	5.60e-3	9.61794	25.47815	0.00790

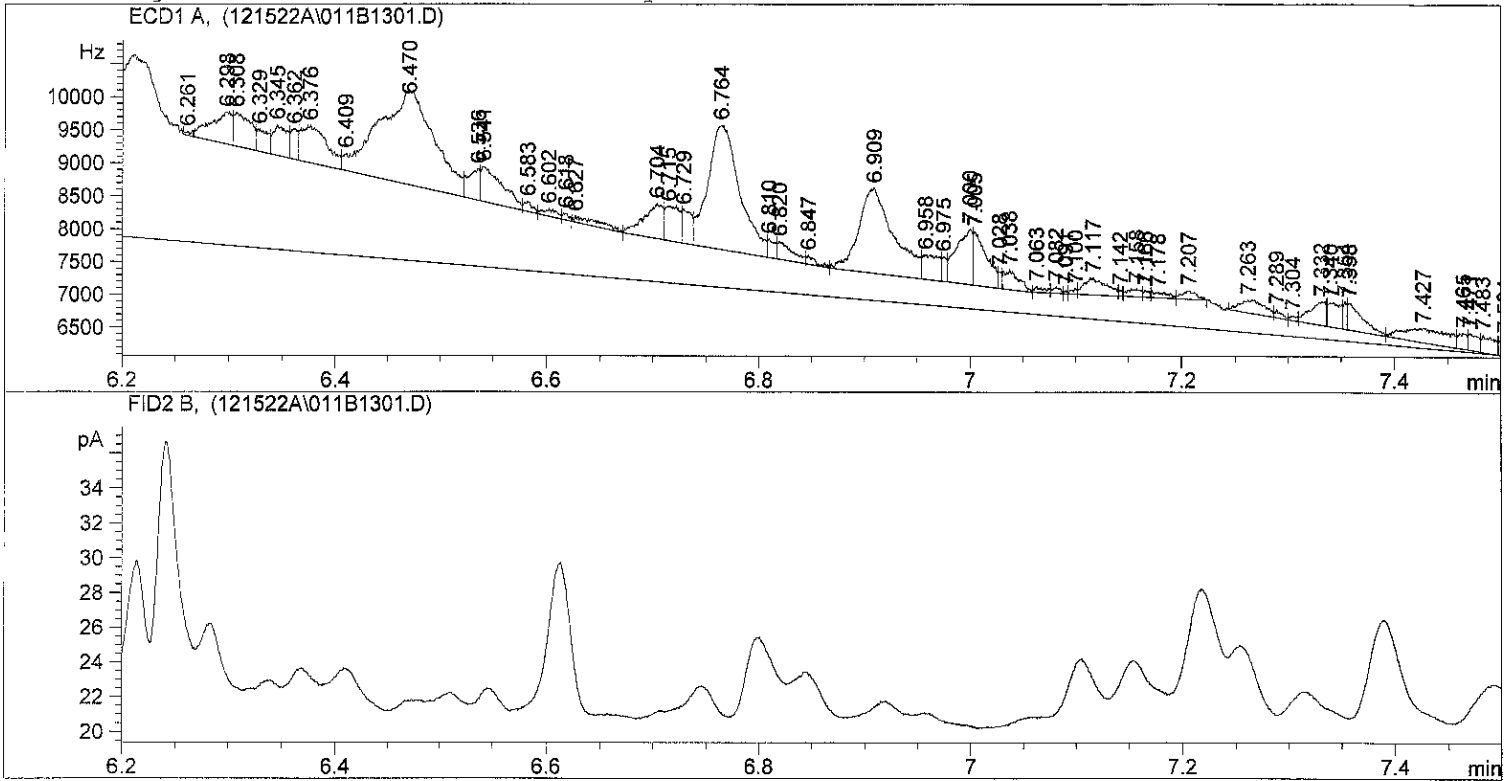
Totals : 1.21756e5 4.29331e4

Results obtained with enhanced integrator!

Signal 2: FID2 B,

\*\*\* End of Report \*\*\*

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Injection Date : 12/15/2022 5:00:52 PM Seq. Line : 13  
Sample Name : 22L0246 13 Location : Vial 11  
Acq. Operator : TW Inj : 1  
Inj Volume : 1 µl  
Sequence File : C:\HPCHEM\2\SEQUENCE\121522A.S  
Method : C:\HPCHEM\2\METHODS\DIOXIN.M  
Last changed : 3/22/2022 4:13:36 AM by DM



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Area Percent Report  
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Sorted By : Signal  
Multiplier : 1.0000  
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.251	BV	0.0133	190.58771	174.78867	0.10223
2	5.302	VV	0.0192	1709.25488	1061.36060	0.91681
3	5.330	VB	0.0111	193.00880	290.76254	0.10353
4	5.374	BV	0.0255	2713.74585	1268.98169	1.45560
5	5.406	VV	0.0105	758.03815	890.56055	0.40660
6	5.418	VV	4.90e-3	283.86740	808.00812	0.15226
7	5.444	VV S	0.0228	5479.41113	3127.41479	2.93904
8	5.881	VV S	0.1687	4.82922e4	3472.85864	25.90293
9	5.951	VV S	0.0412	9888.34863	3998.17700	5.30391
10	6.019	VBAS	0.4242	8.87720e4	2765.96631	47.61547
11	6.261	BV T	7.31e-3	24.60042	56.07502	0.01320
12	6.298	VV T	0.0168	651.29663	480.77896	0.34934
13	6.308	VV T	0.0136	564.65417	505.95374	0.30287
14	6.329	VV T	0.0124	249.64467	335.49100	0.13390
15	6.345	VV T	0.0113	411.56216	456.47638	0.22075
16	6.362	VV T	6.40e-3	216.51656	451.04599	0.11614
17	6.376	VV T	0.0211	954.68677	558.80359	0.51207

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.409	PV T	4.94e-3	87.96748	260.33392	0.04718
19	6.470	PV T	0.0427	5122.43945	1418.18176	2.74757
20	6.536	PV T	9.47e-3	362.58743	476.66650	0.19448
21	6.541	PV T	0.0243	773.24872	529.68768	0.41475
22	6.583	PV T	7.21e-3	80.68398	151.64589	0.04328
23	6.602	PV T	0.0113	96.04771	110.85186	0.05152
24	6.618	PV T	6.74e-3	39.23918	97.07784	0.02105
25	6.627	PV T	0.0347	180.97896	86.83480	0.09707
26	6.704	PV T	0.0158	673.97815	531.08783	0.36151
27	6.715	PV T	0.0159	493.71591	517.59869	0.26482
28	6.729	PV T	0.0100	303.57803	505.38034	0.16283
29	6.764	PV T	0.0251	3992.30762	1883.96008	2.14139
30	6.810	PV T	8.17e-3	137.75124	281.05081	0.07389
31	6.820	PV T	0.0132	271.53662	267.75876	0.14565
32	6.847	PV T	7.58e-3	78.52151	131.15187	0.04212
33	6.909	PV T	0.0283	2969.54687	1289.40833	1.59280
34	6.958	PV T	0.0180	402.08090	371.43542	0.21567
35	6.975	PV T	5.79e-3	128.73225	370.66888	0.06905
36	7.000	PV T	0.0138	892.98975	840.84631	0.47898
37	7.005	PV T	0.0147	718.55945	811.95746	0.38542
38	7.028	PV T	4.37e-3	64.20672	244.76988	0.03444
39	7.038	PV T	0.0157	281.65012	298.13983	0.15107
40	7.063	PV T	8.00e-3	55.28691	87.21990	0.02965
41	7.082	PV T	6.95e-3	45.88586	93.11521	0.02461
42	7.091	PV T	3.03e-3	7.90700	43.43745	0.00424
43	7.100	PV T	4.63e-3	27.30725	79.04363	0.01465
44	7.117	PV T	0.0176	369.06140	253.64510	0.19796
45	7.142	PV T	4.01e-3	20.03436	83.18227	0.01075
46	7.158	PV T	0.0102	100.14019	121.10704	0.05371
47	7.166	PV T	5.70e-3	36.49438	106.70538	0.01957
48	7.178	PV T	0.0187	87.13763	77.57778	0.04674
49	7.207	PB T	0.0118	114.58501	123.65770	0.06146
50	7.263	BV T	0.0213	327.70572	194.53571	0.17577
51	7.289	PV T	5.80e-3	51.84133	116.27621	0.02781
52	7.304	PV T	6.03e-3	30.86979	71.53679	0.01656
53	7.332	PV T	0.0134	369.85931	354.89960	0.19838
54	7.340	PV T	0.0146	317.66006	362.39697	0.17039
55	7.354	PV T	3.75e-3	92.27905	409.71832	0.04950
56	7.358	PV T	0.0169	411.80972	405.31036	0.22089
57	7.427	PV T	0.0350	637.63226	214.83136	0.34201
58	7.465	PV T	7.19e-3	137.41577	243.11899	0.07371
59	7.471	PV T	0.0108	165.65288	256.79947	0.08885
60	7.483	PV T	0.0140	216.51057	257.28870	0.11613
61	7.504	PV T	8.52e-3	181.32884	267.08853	0.09726
62	7.522	PV T	0.0139	319.22440	276.32751	0.17123
63	7.537	PV T	0.0139	352.44568	313.83670	0.18904
64	7.554	PV T	0.0105	186.97839	296.94162	0.10029
65	7.569	PV T	6.21e-3	52.29791	140.25058	0.02805
66	7.581	PP T	5.66e-3	11.14386	32.83326	0.00598
67	7.638	PV T	0.0235	447.92529	229.73459	0.24026
68	7.653	PV T	6.74e-3	125.86988	247.14404	0.06751
69	7.672	PV T	0.0161	459.62741	360.08704	0.24653
70	7.684	PV T	0.0112	344.73141	377.89478	0.18491
71	7.703	PV T	5.82e-3	133.34450	310.19489	0.07152
72	7.708	PV T	0.0113	219.87614	325.63107	0.11794
73	7.721	PV T	0.0218	303.40433	231.62367	0.16274
74	7.763	PV T	0.0122	111.81458	125.22391	0.05998
75	7.778	PP T	0.0111	56.37371	84.99309	0.03024

Totals : 1.86435e5 3.97552e4

Results obtained with enhanced integrator!

Signal 2: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	5.288	PP	0.0175	25.67216	22.80852	1.000e2

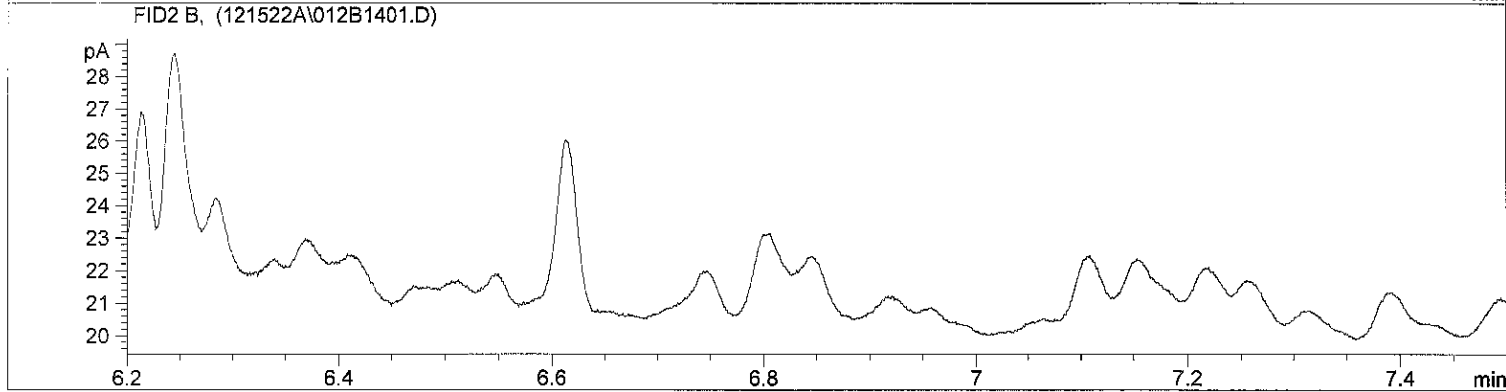
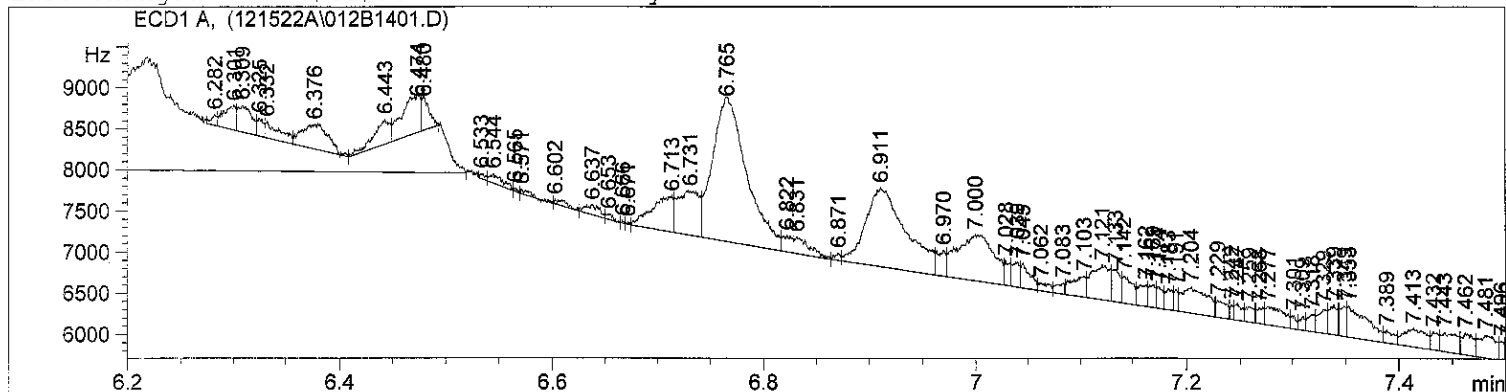
Totals :                   25.67216   22.80852

Results obtained with enhanced integrator!

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\*\*\* End of Report \*\*\*

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Injection Date   : 12/15/2022 5:11:47 PM      Seq. Line   : 14
Sample Name     : 22L0246 14                 Location    : Vial 12
Acq. Operator  : TW                          Inj         : 1
                                           Inj Volume  : 1 µl
Sequence File   : C:\HPCHEM\2\SEQUENCE\121522A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 3/22/2022 4:13:36 AM by DM
    
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Area Percent Report

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Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.206	BV	5.58e-3	86.76495	203.45090	0.03057
2	5.214	VP	7.73e-3	132.83583	223.50714	0.04680
3	5.235	VV	2.41e-3	3.82043	22.15031	0.00135
4	5.248	VP	9.75e-3	105.91663	151.56250	0.03731
5	5.300	VV S	0.0180	1.59165e5	1.28967e5	56.07206
6	5.441	VV S	0.0275	3.17266e4	1.92318e4	11.17692
7	5.677	VV S	0.1097	1.85861e4	2367.76221	6.54769
8	5.952	VV S	0.1228	2.61138e4	3544.01099	9.19960
9	6.046	VB S	0.2375	2.64248e4	1733.62927	9.30916
10	6.282	BV T	4.94e-3	49.75238	127.85160	0.01753
11	6.301	VV T	0.0105	241.02954	289.98199	0.08491
12	6.309	VV T	0.0150	293.61835	325.50763	0.10344
13	6.325	VV T	5.44e-3	90.72701	218.68242	0.03196
14	6.332	VV T	0.0166	191.07292	192.41214	0.06731
15	6.376	VV T	0.0214	520.98346	298.36880	0.18354
16	6.443	PV T	0.0137	317.44452	295.66504	0.11183
17	6.474	VV T	0.0161	596.45850	478.43893	0.21013

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.480	VB T	7.78e-3	192.01595	411.45667	0.06765
19	6.533	BV	5.29e-3	22.08372	60.08022	0.00778
20	6.544	VV	0.0113	97.36042	112.13891	0.03430
21	6.565	VP	3.18e-3	9.54807	40.11918	0.00336
22	6.571	VV	8.89e-3	35.05517	49.30622	0.01235
23	6.602	VP	0.0119	48.79296	50.51882	0.01719
24	6.637	VV	0.0116	108.73789	117.49027	0.03831
25	6.653	VP	5.25e-3	25.10811	60.38085	0.00885
26	6.666	VV	2.28e-3	3.39995	23.64318	0.00120
27	6.671	VP	3.00e-3	4.32921	24.07407	0.00153
28	6.713	VV	0.0175	602.82556	432.15598	0.21237
29	6.731	VV	0.0190	770.42194	532.15582	0.27141
30	6.765	VV	0.0267	3884.08008	1762.16345	1.36832
31	6.822	VV	9.26e-3	129.70181	197.65416	0.04569
32	6.831	VP	0.0125	200.82083	197.16829	0.07075
33	6.871	VV	5.01e-3	31.12444	86.29974	0.01096
34	6.911	VV	0.0314	2543.57935	955.78210	0.89608
35	6.970	VV	7.18e-3	171.51250	313.71274	0.06042
36	7.000	VV	0.0285	1335.96399	554.26605	0.47065
37	7.028	VV	4.39e-3	101.11702	296.00241	0.03562
38	7.039	VV	7.52e-3	163.19273	301.08121	0.05749
39	7.045	VV	7.76e-3	181.50807	295.90320	0.06394
40	7.062	VV	0.0127	70.23808	91.94656	0.02474
41	7.083	VV	6.96e-3	70.22868	128.83276	0.02474
42	7.103	VV	0.0123	233.96858	250.85504	0.08242
43	7.121	VV	0.0147	509.47736	415.27490	0.17948
44	7.133	VV	6.63e-3	203.86142	394.59720	0.07182
45	7.142	VV	8.86e-3	222.41579	321.79291	0.07835
46	7.162	VV	7.62e-3	157.16365	261.21658	0.05537
47	7.169	VV	5.78e-3	119.89059	270.25009	0.04224
48	7.174	VV	5.15e-3	101.96154	261.31720	0.03592
49	7.183	VV	6.55e-3	123.61348	242.43977	0.04355
50	7.191	VV	3.91e-3	67.16017	251.61775	0.02366
51	7.204	VV	0.0203	497.06830	306.84518	0.17511
52	7.229	VV	8.75e-3	141.05655	201.89680	0.04969
53	7.242	VV	3.09e-3	36.85359	172.91252	0.01298
54	7.247	VV	7.24e-3	105.08380	196.41853	0.03702
55	7.259	VV	6.69e-3	97.82240	181.34393	0.03446
56	7.268	VV	6.63e-3	95.97617	185.77559	0.03381
57	7.277	VV	0.0147	271.78339	225.15321	0.09575
58	7.301	VV	5.77e-3	55.57728	160.65932	0.01958
59	7.309	VV	4.62e-3	55.50905	161.05278	0.01956
60	7.318	VV	6.57e-3	105.65524	206.35274	0.03722
61	7.329	VV	7.33e-3	167.44940	290.41913	0.05899
62	7.339	VV	6.95e-3	191.49541	351.71417	0.06746
63	7.349	VV	5.53e-3	159.23235	362.31787	0.05610
64	7.353	VV	0.0165	503.77945	373.98401	0.17748
65	7.389	VV	0.0115	98.05138	141.68362	0.03454
66	7.413	VV	0.0179	316.41348	216.46092	0.11147
67	7.432	VV	5.91e-3	96.41246	211.78625	0.03397
68	7.443	VB	0.0126	240.34930	230.19266	0.08467
69	7.462	BV	9.52e-3	197.18095	257.86682	0.06946
70	7.481	VV	0.0139	310.48251	271.79227	0.10938
71	7.496	VV	4.55e-3	69.73255	229.05038	0.02457
72	7.502	VV	7.17e-3	132.11089	234.49738	0.04654
73	7.521	VV	0.0130	285.77823	281.83322	0.10068
74	7.542	VP	0.0279	717.66565	306.22360	0.25283
75	7.631	VV	0.0165	255.35797	185.41223	0.08996
76	7.637	VV	0.0106	121.18713	190.49060	0.04269
77	7.656	VV	8.13e-3	142.84489	215.57460	0.05032
78	7.671	VV	0.0114	233.05653	261.69983	0.08210
79	7.680	VV	0.0164	344.67743	260.68256	0.12143
80	7.702	VV	5.92e-3	102.31754	224.51889	0.03605
81	7.711	VV	0.0204	264.24771	215.61256	0.09309
82	7.753	VP	0.0213	235.63437	131.74089	0.08301



Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.792	VP	6.75e-3	21.10420	40.00344	0.00743

Totals :                           2.83858e5  1.75919e5

Results obtained with enhanced integrator!

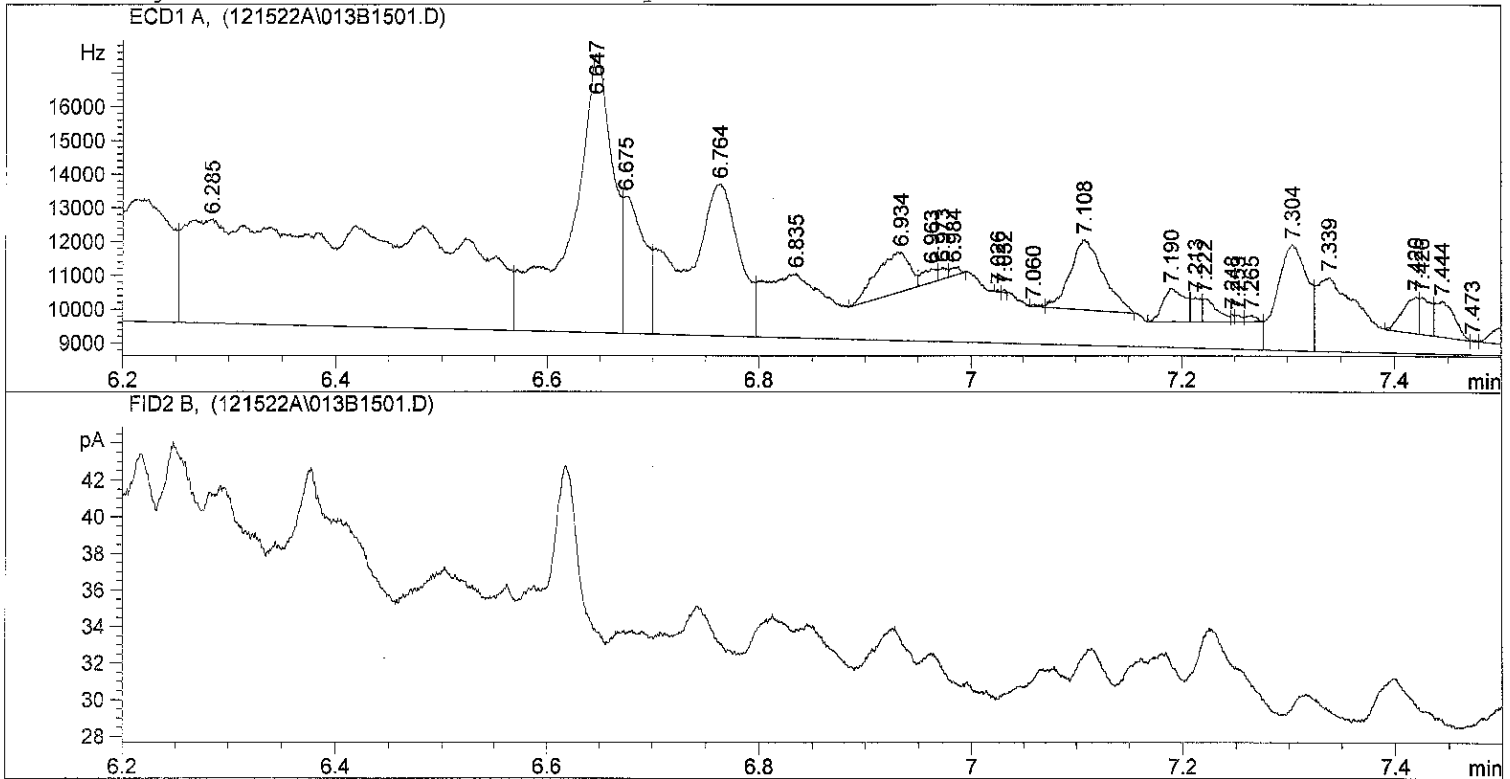
Signal 2: FID2 B,

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\*\*\* End of Report \*\*\*

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Injection Date : 12/15/2022 5:22:58 PM      Seq. Line : 15
Sample Name    : 22L0246 42                 Location  : Vial 13
Acq. Operator : TW                          Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
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Area Percent Report

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Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.256	BV	0.0119	1388.46643	1429.21619	0.33148
2	5.301	VV S	0.0197	3.26859e4	2.45615e4	7.80327
3	5.379	VV S	0.0357	9779.36328	4559.27881	2.33467
4	5.442	VV S	0.0272	1.89323e4	1.15825e4	4.51980
5	5.481	VV S	0.0254	2.12205e4	1.39065e4	5.06608
6	5.512	VV S	0.0327	8085.55371	4120.70703	1.93030
7	5.600	VV S	0.0558	1.26856e4	3201.30347	3.02849
8	5.703	VV S	0.0393	1.67776e4	7122.11035	4.00539
9	5.767	VV S	0.0319	2.31814e4	1.21133e4	5.53421
10	5.885	VV S	0.0692	2.82513e4	5117.93457	6.74457
11	5.953	VV S	0.0353	1.16518e4	5502.01807	2.78168
12	6.013	VV S	0.0552	2.00843e4	6061.25098	4.79482
13	6.097	VV S	0.1542	4.01526e4	4001.65698	9.58583
14	6.285	VV S	0.2666	4.94748e4	3067.67261	11.81135
15	6.647	VV S	0.0468	2.31574e4	8238.64453	5.52848
16	6.675	VV S	0.0228	5542.83154	4060.34277	1.32327
17	6.764	VV S	0.0580	1.56706e4	4503.30811	3.74111

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.835	VV S	0.3118	3.57267e4	1909.73486	8.52920
19	6.934	BV T	0.0287	2669.14307	1164.51636	0.63722
20	6.963	VV T	0.0119	387.87479	399.95367	0.09260
21	6.973	VV T	6.89e-3	182.54593	338.73083	0.04358
22	6.984	VB T	7.78e-3	144.34138	228.23973	0.03446
23	7.026	BV X	2.29e-3	8.21749	59.75373	0.00196
24	7.032	VB X	3.65e-3	17.17100	78.38084	0.00410
25	7.060	BV T	7.94e-3	32.91233	55.32838	0.00786
26	7.108	PB T	0.0261	4489.71338	2067.15137	1.07185
27	7.190	BV T	0.0176	1406.27026	978.29663	0.33573
28	7.213	PV T	8.32e-3	472.60336	713.79083	0.11283
29	7.222	PV T	0.0155	630.29028	676.34058	0.15047
30	7.248	PV T	3.66e-3	46.36631	211.28784	0.01107
31	7.253	PV T	7.45e-3	84.38239	188.86359	0.02015
32	7.265	PV T	8.82e-3	122.51551	192.56737	0.02925
33	7.304	VV S	0.0242	6286.17969	3132.40552	1.50073
34	7.339	VBAS	0.0911	1.19965e4	2195.70898	2.86398
35	7.420	BV T	0.0123	1105.03906	1101.39648	0.26381
36	7.426	PV T	9.35e-3	827.71570	1104.12219	0.19760
37	7.444	PV T	0.0155	1326.57520	1053.07751	0.31670
38	7.473	PV T	4.02e-3	9.13039	37.82425	0.00218
39	7.517	PV T	0.0173	960.09930	668.81586	0.22921
40	7.526	PV T	0.0173	1244.41431	868.79376	0.29708
41	7.562	PV T	2.19e-3	4.59984	34.95718	0.00110
42	7.588	PV T	0.0121	218.31123	221.22882	0.05212
43	7.594	PV T	6.32e-3	70.78899	186.53665	0.01690
44	7.604	PV T	4.96e-3	84.15806	247.64490	0.02009
45	7.641	PV T	0.0336	6501.25879	2301.51074	1.55208
46	7.736	PP T	0.0288	3044.16479	1285.95801	0.72675
47	7.779	PP T	7.10e-3	52.56296	94.29163	0.01255

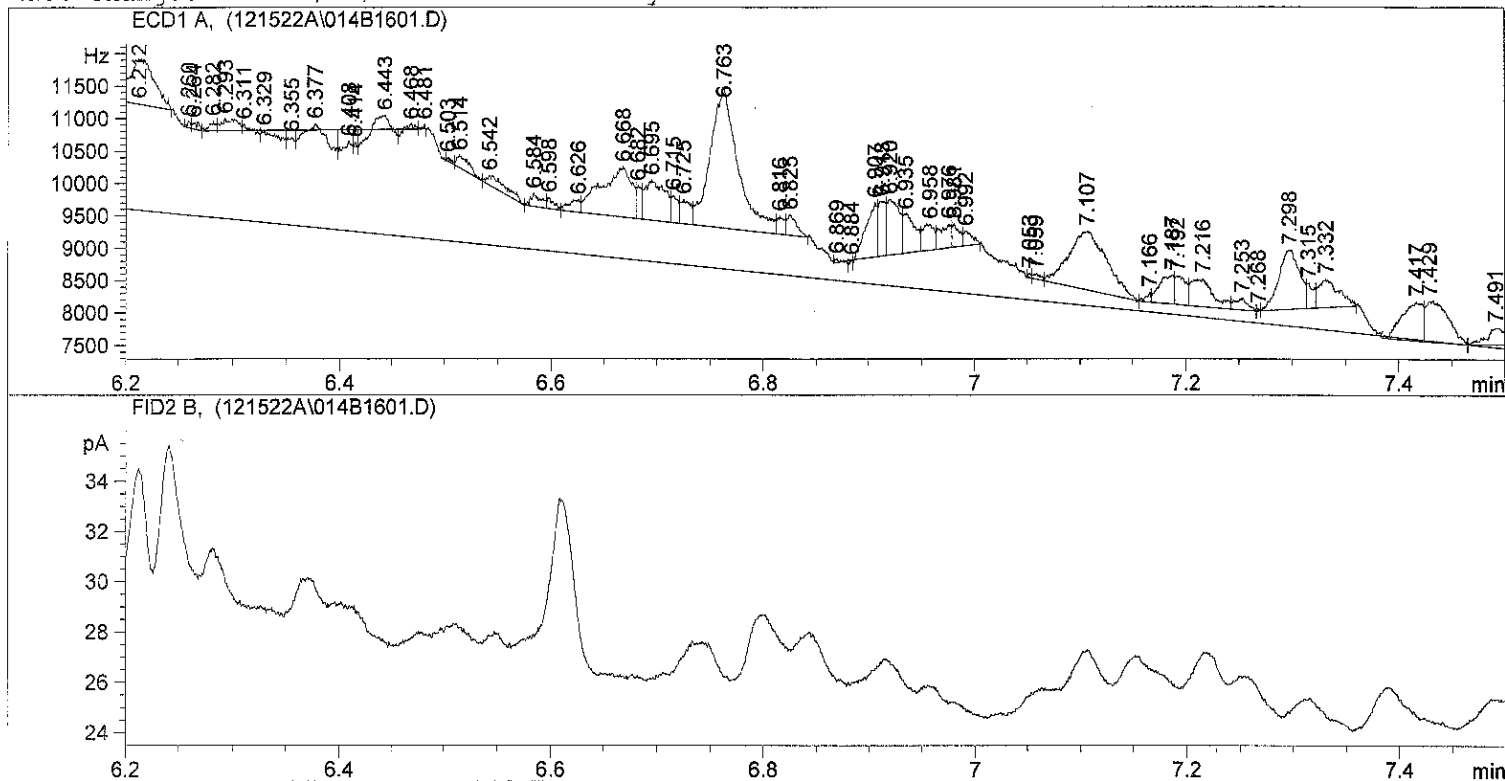
Totals : 4.18875e5 1.46946e5

Results obtained with enhanced integrator!

Signal 2: FID2 B,

\*\*\* End of Report \*\*\*

Injection Date : 12/15/2022 5:33:55 PM Seq. Line : 16  
 Sample Name : 22L0246 43 Location : Vial 14  
 Acq. Operator : TW Inj : 1  
 Inj Volume : 1 µl  
 Sequence File : C:\HPCHEM\2\SEQUENCE\121522A.S  
 Method : C:\HPCHEM\2\METHODS\DIOXIN.M  
 Last changed : 3/22/2022 4:13:36 AM by DM



Area Percent Report

Sorted By : Signal  
 Multiplier : 1.0000  
 Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.247	BV	0.0103	301.80032	362.66898	0.14960
2	5.272	VV	6.74e-3	65.60469	128.81374	0.03252
3	5.280	VV	3.96e-3	47.03196	153.93221	0.02331
4	5.303	VV	0.0110	617.85645	721.05804	0.30627
5	5.310	VV	8.53e-3	454.41571	723.18579	0.22526
6	5.333	VV	4.93e-3	85.31677	266.95111	0.04229
7	5.337	VP	7.07e-3	154.16003	286.67072	0.07642
8	5.377	VV S	0.0254	6568.93018	3448.84302	3.25624
9	5.411	BV T	0.0102	418.42078	529.14630	0.20741
10	5.442	VV T	0.0122	913.73602	916.33783	0.45294
11	5.478	VV S	0.0172	1.17313e4	1.01969e4	5.81527
12	5.513	VV S	0.1720	1.40449e4	1360.62463	6.96210
13	5.540	BV T	3.17e-3	3.24856	17.48208	0.00161
14	5.546	VV T	0.0000	5.84934	26.00058	0.00290
15	5.561	VV T	2.81e-3	14.54330	76.77985	0.00721
16	5.596	VV T	0.0000	201.40767	116.57065	0.09984
17	5.614	VV T	5.78e-3	86.35369	248.90176	0.04281

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.624	VV T	8.21e-3	191.36684	293.37213	0.09486
19	5.630	VV T	0.0169	458.25067	327.32031	0.22716
20	5.676	VV T	0.0000	914.68347	182.57570	0.45341
21	5.701	VV S	0.0248	1.29428e4	6570.60303	6.41579
22	5.762	VV S	0.0722	1.61404e4	3245.43823	8.00084
23	5.881	VV S	0.0525	1.53833e4	3739.34888	7.62555
24	5.951	VV S	0.0367	8269.99609	3754.95337	4.09947
25	6.018	VBAS	0.4248	8.65799e4	2571.52271	42.91801
26	6.150	BV X	3.45e-3	19.35818	93.53197	0.00960
27	6.169	VV T	6.95e-3	99.94167	218.10732	0.04954
28	6.174	VV T	3.84e-3	64.64277	233.09540	0.03204
29	6.178	VV T	0.0104	150.29552	241.60614	0.07450
30	6.212	VB T	0.0201	1181.97620	701.69312	0.58591
31	6.260	BV T	3.15e-3	20.22738	92.54936	0.01003
32	6.264	PV T	7.56e-3	41.97193	92.53042	0.02081
33	6.282	PV T	5.04e-3	58.82663	147.90508	0.02916
34	6.293	PV T	0.0121	179.66472	178.53201	0.08906
35	6.311	PV T	1.69e-3	9.18534	90.69748	0.00455
36	6.329	PV T	0.2439	127.13809	8.68924	0.06302
37	6.355	PV T	0.0111	74.00853	111.56133	0.03669
38	6.377	PV T	0.0000	228.85611	90.85095	0.11344
39	6.408	PV T	0.0150	223.20491	181.12576	0.11064
40	6.414	PV T	5.41e-3	64.20613	197.68066	0.03183
41	6.443	PV T	2.56e-3	24.59461	210.96751	0.01219
42	6.468	PV T	3.00e-3	12.97401	68.83968	0.00643
43	6.481	PB T	2.78e-3	11.24218	67.39598	0.00557
44	6.503	BV T	5.28e-3	17.53705	55.40501	0.00869
45	6.514	PV T	0.0110	162.68690	185.23689	0.08064
46	6.542	PV T	0.0182	221.18819	146.89247	0.10964
47	6.584	PV T	9.07e-3	137.91110	194.65170	0.06836
48	6.598	PV T	6.94e-3	68.77432	165.19560	0.03409
49	6.626	PV T	0.0101	142.66255	190.98924	0.07072
50	6.668	PV T	0.0250	1518.96558	769.26886	0.75296
51	6.682	PV T	5.69e-3	171.73920	503.28894	0.08513
52	6.695	PV T	0.0165	810.66504	616.28204	0.40185
53	6.715	PV T	7.30e-3	182.26926	416.33664	0.09035
54	6.725	PV T	7.97e-3	235.91373	373.20728	0.11694
55	6.763	PV T	0.0230	3935.78711	2147.76953	1.95098
56	6.816	PV T	8.20e-3	135.04454	274.32883	0.06694
57	6.825	PB T	8.17e-3	197.83174	313.19464	0.09807
58	6.869	BV T	1.47e-3	4.89794	55.71852	0.00243
59	6.884	PV T	0.0127	10.42639	10.08963	0.00517
60	6.907	PV T	9.01e-3	596.87164	827.57129	0.29587
61	6.913	PV T	6.88e-3	410.98581	844.27203	0.20373
62	6.920	PV T	0.0103	695.39874	857.21448	0.34471
63	6.935	PV T	0.0130	462.72873	595.14178	0.22938
64	6.958	PV T	9.37e-3	302.09164	401.64539	0.14975
65	6.976	PV T	9.66e-3	282.09665	363.35876	0.13984
66	6.981	PV T	7.59e-3	164.51454	361.27420	0.08155
67	6.992	PB T	7.67e-3	132.25310	224.73846	0.06556
68	7.053	BV T	2.82e-3	10.33495	60.97719	0.00512
69	7.059	PV T	9.35e-3	39.57534	70.56683	0.01962
70	7.107	PV T	0.0294	2264.34668	910.36761	1.12245
71	7.166	PV T	5.32e-3	46.00327	144.25778	0.02280
72	7.187	PV T	0.0126	429.29556	446.90692	0.21280
73	7.192	PV T	0.0117	301.71802	431.49622	0.14956
74	7.216	PV T	0.0176	624.70337	433.49753	0.30967
75	7.253	PV T	0.0106	148.31181	181.11824	0.07352
76	7.268	PV T	2.44e-3	5.32861	36.43248	0.00264
77	7.298	PV T	0.0163	1247.58289	915.00928	0.61843
78	7.315	PV T	7.68e-3	175.87817	381.56430	0.08718
79	7.332	PB T	0.0168	576.65625	431.22552	0.28585
80	7.417	BV T	0.0165	821.07098	601.05841	0.40701
81	7.429	PV T	0.0184	945.40399	626.15155	0.46864
82	7.491	PV T	0.0125	265.74216	260.26187	0.13173

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.516	PB T	0.0216	550.22864	312.49860	0.27275
84	7.634	PV T	0.0179	1113.39087	759.74042	0.55191
85	7.642	PB T	0.0158	915.41504	750.08838	0.45377
86	7.727	BV T	0.0259	1048.76917	487.70859	0.51988
87	7.770	PP T	3.16e-3	7.63886	34.81955	0.00379
88	7.786	PV T	0.0000	2.16934	29.85667	0.00108
89	7.790	PP T	2.05e-3	4.67305	37.70786	0.00232

Totals : 2.01733e5 6.25298e4

Results obtained with enhanced integrator!

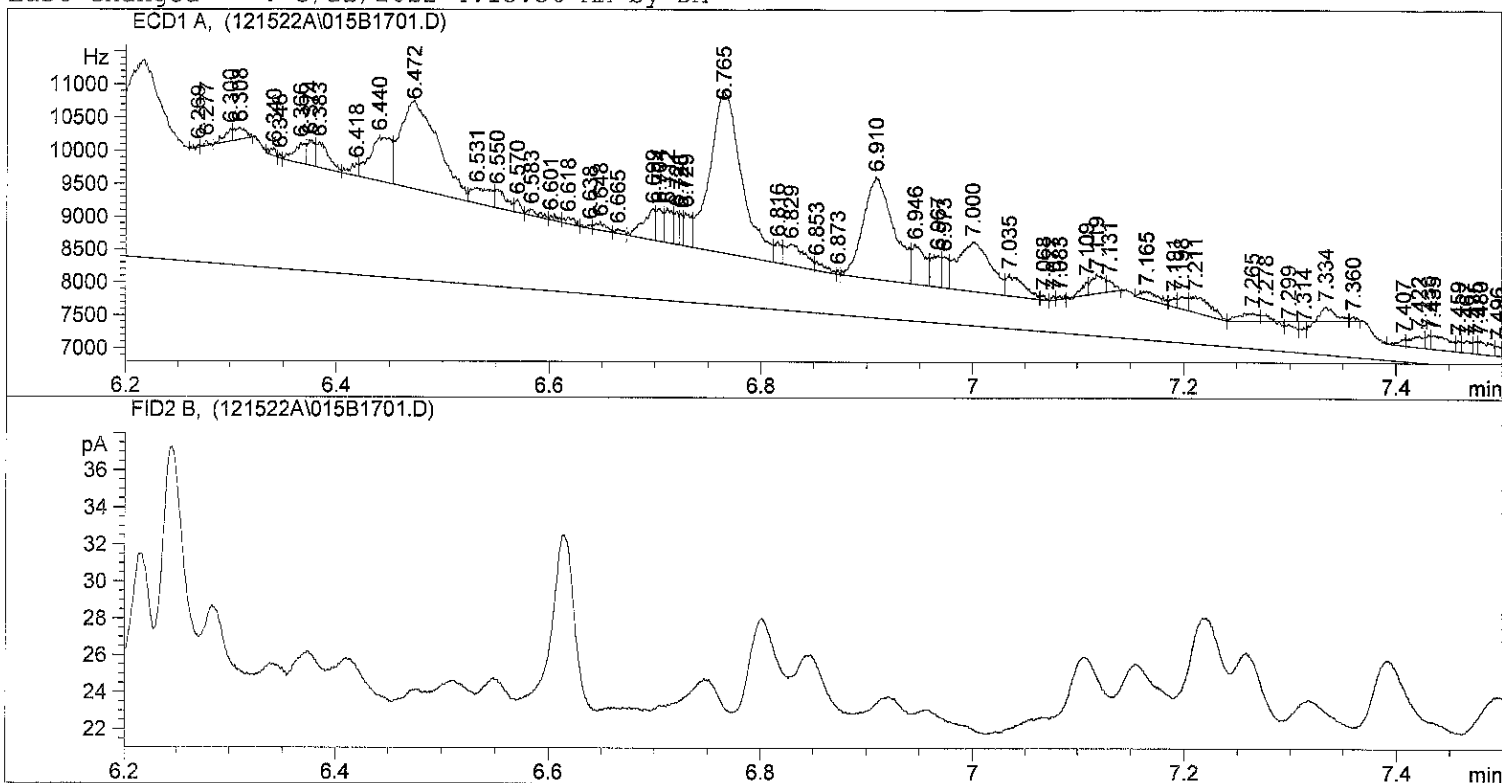
Signal 2: FID2 B,

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\*\*\* End of Report \*\*\*

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Injection Date : 12/15/2022 5:45:07 PM      Seq. Line : 17
Sample Name    : 22L0246 44                 Location  : Vial 15
Acq. Operator  : TW                          Inj       : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
    
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Area Percent Report

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Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.214	BP	0.0137	724.71747	643.61670	0.34129
2	5.247	VP	2.81e-3	11.16898	58.83838	0.00526
3	5.257	VP	6.70e-3	69.13409	136.73402	0.03256
4	5.278	VV	5.80e-3	87.29220	212.15842	0.04111
5	5.282	VV	4.15e-3	60.44504	227.99239	0.02847
6	5.294	VV	9.21e-3	263.23349	356.54688	0.12396
7	5.303	VV	0.0128	327.24622	334.60724	0.15411
8	5.333	VV	0.0111	191.22995	229.77110	0.09005
9	5.343	VV	4.18e-3	63.50867	232.65422	0.02991
10	5.348	VV	3.77e-3	59.18188	232.38390	0.02787
11	5.377	VV	0.0265	3400.10962	1565.88062	1.60120
12	5.414	VV	0.0131	956.86047	1022.95050	0.45061
13	5.445	VV S	0.1128	2.80682e4	2949.38989	13.21800
14	5.484	BV T	0.0102	116.47068	154.67200	0.05485
15	5.506	VV T	3.07e-3	9.66450	45.64396	0.00455
16	5.519	VV T	0.0000	167.34489	72.96905	0.07881
17	5.559	PV T	0.0000	298.91089	61.54260	0.14076

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.574	VV T	5.53e-3	32.25012	97.23016	0.01519
19	5.597	VV T	0.0000	77.76329	103.56531	0.03662
20	5.632	VV T	0.0000	110.88229	69.33265	0.05222
21	5.649	VV T	0.0109	144.05406	163.46129	0.06784
22	5.678	VV T	7.72e-3	266.86783	449.59799	0.12567
23	5.699	VB T	0.0123	605.11359	615.92889	0.28496
24	5.886	VV S	0.1059	3.29376e4	3768.79126	15.51115
25	5.952	VV S	0.0366	9814.20313	4475.09131	4.62175
26	6.020	VBAS	0.4713	1.08598e5	3025.65479	51.14141
27	6.269	BV T	3.03e-3	7.38981	38.72775	0.00348
28	6.277	PV T	3.49e-3	17.22616	69.53619	0.00811
29	6.300	PV T	6.26e-3	92.43489	190.42232	0.04353
30	6.308	VB T	9.15e-3	129.83838	177.26416	0.06114
31	6.340	BV T	5.88e-3	40.10075	109.34823	0.01888
32	6.346	PV T	2.40e-3	9.27567	64.38743	0.00437
33	6.366	PV T	9.20e-3	226.75607	307.51743	0.10679
34	6.374	PV T	5.96e-3	179.70798	377.39389	0.08463
35	6.383	PV T	0.0102	313.83591	382.25668	0.14779
36	6.418	PV T	6.68e-3	98.76681	189.63251	0.04651
37	6.440	PV T	0.0170	934.72687	674.27625	0.44019
38	6.472	PV T	0.0303	3277.14966	1333.49109	1.54329
39	6.531	PV T	0.0173	329.39941	233.10162	0.15512
40	6.550	PV T	0.0129	214.23862	276.97421	0.10089
41	6.570	PV T	5.84e-3	67.59425	192.85684	0.03183
42	6.583	PV T	9.70e-3	72.57600	95.16444	0.03418
43	6.601	PV T	0.0109	41.02769	62.74777	0.01932
44	6.618	PV T	8.29e-3	64.59583	100.58839	0.03042
45	6.638	PV T	4.86e-3	17.90757	54.07674	0.00843
46	6.648	PV T	7.83e-3	80.10014	129.21591	0.03772
47	6.665	PV T	6.15e-3	35.74158	72.52804	0.01683
48	6.699	PV T	0.0111	386.74112	473.25394	0.18213
49	6.704	PV T	7.68e-3	227.32106	493.49973	0.10705
50	6.712	PV T	7.61e-3	235.86827	516.86926	0.11108
51	6.721	PV T	4.11e-3	150.72234	500.40854	0.07098
52	6.725	PV T	3.77e-3	108.88818	481.19351	0.05128
53	6.729	PV T	8.05e-3	244.11081	505.14597	0.11496
54	6.765	PV T	0.0251	5087.12158	2438.11060	2.39565
55	6.816	PV T	5.86e-3	142.64215	316.29739	0.06717
56	6.829	PV T	0.0166	445.14920	323.95776	0.20963
57	6.853	PV T	0.0105	87.88363	139.88988	0.04139
58	6.873	PV T	2.01e-3	8.28201	68.84435	0.00390
59	6.910	PV T	0.0237	3099.87280	1552.26379	1.45981
60	6.946	PV T	0.0110	535.23907	597.83923	0.25206
61	6.967	PV T	7.76e-3	301.28375	477.84268	0.14188
62	6.973	PV T	7.03e-3	197.04784	466.90884	0.09279
63	7.000	PV T	0.0258	1619.72717	748.56091	0.76277
64	7.035	PV T	0.0141	372.11740	321.50748	0.17524
65	7.068	PV T	5.18e-3	22.33312	71.82255	0.01052
66	7.077	PV T	3.38e-3	14.82449	62.25788	0.00698
67	7.083	PV T	4.16e-3	13.03237	52.24494	0.00614
68	7.109	PV T	6.03e-3	90.19521	201.15642	0.04248
69	7.119	PV T	9.99e-3	230.11375	280.08496	0.10837
70	7.131	PB T	6.12e-3	83.02269	175.48831	0.03910
71	7.165	BV T	0.0156	156.10780	128.27802	0.07352
72	7.191	PV T	5.20e-3	55.54512	140.74452	0.02616
73	7.198	PV T	8.10e-3	111.99318	181.18512	0.05274
74	7.211	PV T	0.0176	350.02216	248.40982	0.16483
75	7.265	PV T	0.0150	158.56625	131.89714	0.07467
76	7.278	PV T	5.23e-3	33.07049	105.43154	0.01557
77	7.299	PV T	0.0160	66.38194	50.33329	0.03126
78	7.314	PV T	9.27e-3	53.86063	96.88491	0.02536
79	7.334	PV T	0.0107	170.51758	209.50816	0.08030
80	7.360	PB T	4.66e-3	24.51597	70.47720	0.01155
81	7.407	BV T	6.48e-3	47.20392	104.20479	0.02223
82	7.422	PV T	9.98e-3	145.92751	181.57559	0.06872



Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.430	PV T	4.65e-3	65.73106	210.04102	0.03095
84	7.435	PV T	0.0205	252.64565	205.16324	0.11898
85	7.459	PV T	3.75e-3	49.07903	171.02443	0.02311
86	7.467	PV T	7.82e-3	102.27278	174.88904	0.04816
87	7.475	PV T	4.45e-3	48.22975	180.43422	0.02271
88	7.480	PV T	0.0132	164.27370	206.85822	0.07736
89	7.496	PV T	4.80e-3	56.15950	156.02713	0.02645
90	7.504	PV T	4.68e-3	65.21737	186.51895	0.03071
91	7.510	PV T	0.0101	106.81157	177.02852	0.05030
92	7.522	PV T	5.27e-3	49.28173	155.88112	0.02321
93	7.533	PB T	0.0219	242.80089	131.89485	0.11434
94	7.584	BV T	1.80e-3	2.09023	19.38482	0.00098
95	7.590	PP T	2.98e-3	4.74250	26.52916	0.00223
96	7.602	PV T	6.24e-3	44.19194	91.33490	0.02081
97	7.625	PV T	0.0110	184.51535	206.39597	0.08689
98	7.635	PV T	0.0119	148.00114	208.14421	0.06970
99	7.650	PV T	8.77e-3	196.53319	273.80530	0.09255
100	7.657	PV T	4.53e-3	73.81548	271.72180	0.03476
101	7.661	PV T	4.28e-3	72.68826	283.19128	0.03423
102	7.683	PV T	0.0153	459.93228	370.08304	0.21659
103	7.695	PV T	0.0122	368.66537	364.32291	0.17361
104	7.709	PV T	0.0264	521.23181	329.34387	0.24546
105	7.745	PV T	6.67e-3	64.34591	160.68137	0.03030
106	7.763	PV T	0.0140	181.94717	171.00803	0.08568
107	7.778	PP T	5.75e-3	33.98740	77.01849	0.01601

Totals : 2.12348e5 4.41616e4

Results obtained with enhanced integrator!

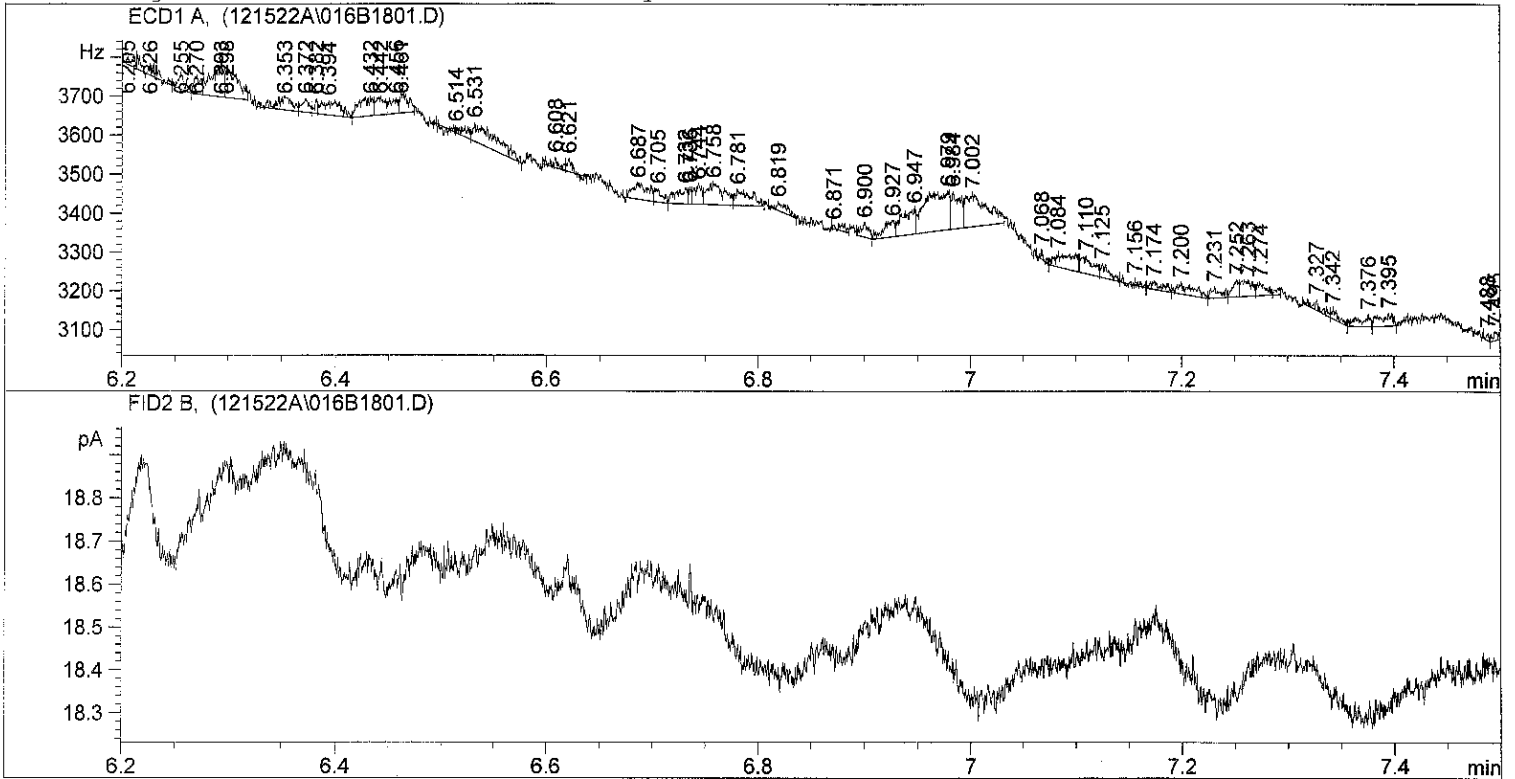
Signal 2: FID2 B,

\*\*\* End of Report \*\*\*

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Injection Date : 12/15/2022 5:56:05 PM      Seq. Line : 18
Sample Name    : 22L0246 45                  Location  : Vial 16
Acq. Operator  : TW                          Inj       : 1
                                                Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
    
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 Area Percent Report  
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Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.227	PV	7.33e-3	20.34603	37.49413	0.33646
2	5.270	VV	0.0210	121.66519	70.30321	2.01194
3	5.298	VV	0.0129	76.57520	72.78109	1.26630
4	5.317	VV	0.0166	155.40256	115.03690	2.56985
5	5.361	VV	0.0219	212.54938	116.59989	3.51487
6	5.383	VV	0.0185	163.88664	106.97115	2.71015
7	5.412	VV	0.0121	89.82694	90.89931	1.48544
8	5.429	VV	0.0148	82.22562	73.83696	1.35974
9	5.459	VV	0.0120	52.77533	56.98458	0.87273
10	5.482	VV	8.42e-3	21.73007	31.61878	0.35934
11	5.498	VP	7.29e-3	17.20499	31.92769	0.28451
12	5.517	VV	6.56e-3	19.77657	38.68704	0.32704
13	5.537	VV	0.0140	71.83099	66.73335	1.18785
14	5.569	VV	0.0144	70.08086	58.44974	1.15891
15	5.590	VV	9.91e-3	78.57227	100.64455	1.29933
16	5.651	VV	0.0337	299.87912	110.97330	4.95901
17	5.668	VV	0.0120	126.12511	129.07863	2.08569

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.683	VV	8.80e-3	76.51176	108.81367	1.26525
19	5.724	VV	0.0336	403.09991	143.20764	6.66595
20	5.833	VV	0.0379	573.67267	182.36807	9.48666
21	5.853	VV	0.0192	300.54898	188.40811	4.97009
22	5.892	VV	0.0233	329.54013	172.17851	5.44951
23	5.930	VV	0.0221	173.99030	93.43814	2.87723
24	5.940	VV	5.05e-3	27.18915	78.34980	0.44962
25	5.960	VV	0.0143	92.60655	80.26177	1.53141
26	5.969	VV	2.87e-3	8.69445	44.63272	0.14378
27	6.006	VV	0.0198	136.53893	85.83466	2.25790
28	6.048	VV	0.0268	331.67249	147.45619	5.48477
29	6.066	VV	8.01e-3	86.11375	135.59203	1.42404
30	6.071	VV	2.79e-3	21.64075	115.10300	0.35787
31	6.076	VB	0.0106	90.64268	105.92861	1.49893
32	6.134	PP	3.29e-3	6.84788	27.65370	0.11324
33	6.160	BV	3.77e-3	4.86489	20.45821	0.08045
34	6.174	VP	6.22e-3	17.11231	36.85588	0.28298
35	6.180	VB	3.56e-3	3.47228	13.70152	0.05742
36	6.205	BB	5.58e-3	7.89468	23.56905	0.13055
37	6.226	BP	0.0109	20.90800	25.66101	0.34575
38	6.255	VP	6.91e-3	17.42867	34.42789	0.28821
39	6.270	VV	6.57e-3	19.51401	40.90335	0.32270
40	6.293	VV	9.07e-3	66.15161	91.12827	1.09393
41	6.298	VB	0.0104	63.00164	73.37328	1.04184
42	6.353	PV	0.0117	32.68969	33.65039	0.54058
43	6.372	VV	6.08e-3	14.86515	32.83109	0.24582
44	6.382	VV	2.84e-3	6.73825	35.11804	0.11143
45	6.394	VP	0.0142	42.24418	35.61712	0.69858
46	6.432	VV	0.0103	41.51902	48.69872	0.68659
47	6.442	VV	8.05e-3	25.86189	45.33931	0.42767
48	6.456	VV	7.72e-3	20.31453	37.51563	0.33594
49	6.461	VB	6.59e-3	28.06757	52.90628	0.46415
50	6.514	BV	7.84e-3	9.44263	14.80292	0.15615
51	6.531	VP	0.0205	78.43850	45.96207	1.29711
52	6.608	BB	5.51e-3	11.09332	25.35084	0.18345
53	6.621	BP	3.39e-3	7.79459	32.63007	0.12890
54	6.687	PV	0.0123	39.53404	40.92387	0.65376
55	6.705	VP	7.08e-3	15.86693	32.61175	0.26239
56	6.732	VV	9.38e-3	29.18896	38.76465	0.48269
57	6.736	VV	2.62e-3	6.99718	40.47873	0.11571
58	6.744	VV	6.46e-3	24.14524	49.77220	0.39928
59	6.758	VV	0.0134	60.37835	54.31305	0.99846
60	6.781	VB	0.0124	40.11864	39.77691	0.66343
61	6.819	BB	8.84e-3	14.31147	20.76353	0.23666
62	6.871	BB	0.0149	8.16995	9.15180	0.13510
63	6.900	BP	6.52e-3	18.14434	35.78195	0.30005
64	6.927	VV	9.74e-3	29.20131	39.40237	0.48289
65	6.947	VV	0.0114	55.19690	65.42426	0.91278
66	6.979	VV	0.0204	158.18576	95.97501	2.61587
67	6.984	VV	7.70e-3	57.03332	93.67355	0.94314
68	7.002	VB	0.0165	117.05058	84.92136	1.93563
69	7.068	PP	2.12e-3	2.89919	22.83427	0.04794
70	7.084	VV	0.0168	47.54041	34.57710	0.78616
71	7.110	VV	0.0109	35.80329	44.68229	0.59207
72	7.125	VB	6.98e-3	18.72923	34.22682	0.30972
73	7.156	BP	3.46e-3	4.15381	15.86147	0.06869
74	7.174	VV	0.0108	15.65853	17.98612	0.25894
75	7.200	VP	0.0141	30.89109	27.48834	0.51084
76	7.231	VB	8.67e-3	16.28604	26.85873	0.26932
77	7.252	BV	5.15e-3	17.34111	42.56005	0.28676
78	7.263	VV	0.0101	29.23729	40.02329	0.48349
79	7.274	VB	9.67e-3	24.02470	33.09830	0.39729
80	7.327	PV	6.87e-3	12.05901	25.73993	0.19942
81	7.342	VP	5.60e-3	10.70052	24.95294	0.17695
82	7.376	VP	9.14e-3	21.41205	30.68122	0.35408

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.395	VV	0.0105	26.58208	31.40322	0.43958
84	7.488	BP	2.87e-3	2.99246	16.85997	0.04949
85	7.495	VB	5.37e-3	8.86501	24.04337	0.14660
86	7.536	PV	2.39e-3	2.40971	16.82512	0.03985
87	7.543	VP	8.44e-3	9.81370	15.81991	0.16229
88	7.574	PP	5.48e-3	8.97518	20.60623	0.14842
89	7.588	VP	5.42e-3	5.02061	12.15500	0.08302
90	7.624	BP	7.80e-3	9.20872	15.80830	0.15228
91	7.640	VB	6.71e-3	13.01974	24.07312	0.21530
92	7.666	PV	4.05e-3	3.85206	13.02822	0.06370
93	7.678	VV	5.69e-3	6.24606	16.98995	0.10329
94	7.687	VV	5.00e-3	6.85103	19.98752	0.11329
95	7.712	VV	0.0144	49.48587	41.26527	0.81833
96	7.732	VB	0.0166	46.35705	37.54531	0.76659
97	7.812	BP	5.02e-3	8.03251	21.17901	0.13283

Totals : 6047.15167 5309.64327

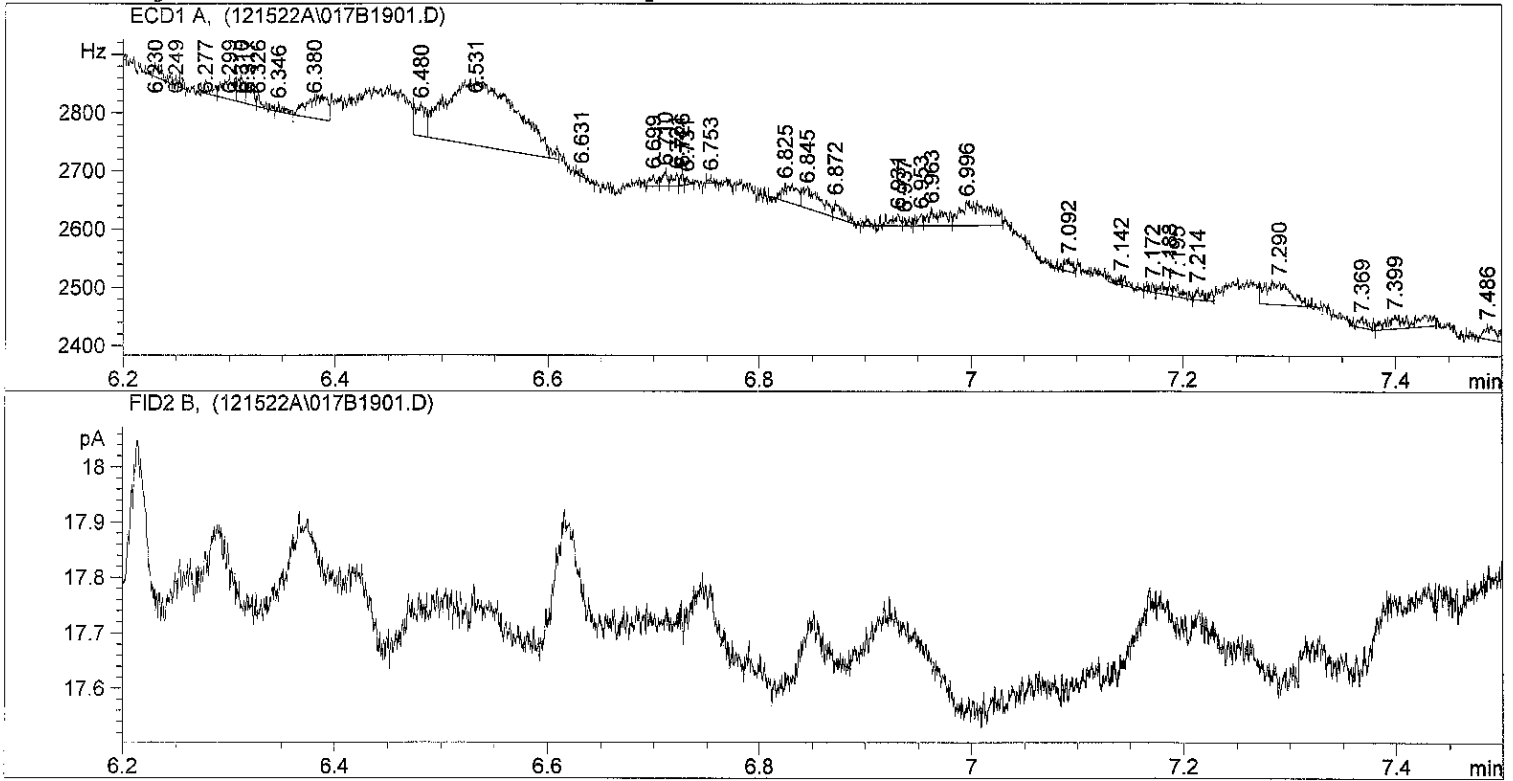
Results obtained with enhanced integrator!

Signal 2: FID2 B,

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\*\*\* End of Report \*\*\*

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Injection Date : 12/15/2022 6:07:02 PM      Seq. Line : 19
Sample Name    : 22L0246 46                 Location  : Vial 17
Acq. Operator  : TW                          Inj       : 1
                                           Inj Volume: 1 µl
Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method        : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
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Area Percent Report

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Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.216	BP	0.0114	21.73678	25.29926	0.56192
2	5.253	VV	0.0000	2.67711	8.38244	0.06921
3	5.291	VV	0.0143	50.04893	42.73006	1.29381
4	5.364	VV	0.0265	107.37597	48.07312	2.77576
5	5.394	VV	0.0148	40.97192	34.61396	1.05916
6	5.401	VV	3.60e-3	5.99824	25.02938	0.15506
7	5.463	VV	0.0365	66.57283	22.11932	1.72097
8	5.485	VV	9.26e-3	20.59828	29.34060	0.53248
9	5.520	VV	0.0216	76.66508	42.57391	1.98186
10	5.560	VP	6.84e-3	8.52318	15.94471	0.22033
11	5.609	VV	0.0143	64.11207	54.75416	1.65735
12	5.702	VV	0.0400	512.02673	153.21748	13.23635
13	5.713	VV	4.85e-3	45.55935	131.18677	1.17775
14	5.752	VV	0.0254	279.92917	132.66573	7.23642
15	5.773	VV	0.0173	172.98024	120.62987	4.47169
16	5.784	VV	3.31e-3	24.28078	104.58166	0.62768
17	5.789	VB	7.59e-3	55.53863	101.41960	1.43572

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.806	BV	9.38e-3	72.13237	100.40376	1.86469
19	5.828	VV	0.0239	266.98050	132.69290	6.90168
20	5.882	VV	0.0269	212.10925	94.12759	5.48321
21	5.913	VP	4.67e-3	8.40469	24.06517	0.21727
22	5.958	VV	8.01e-3	29.93990	45.92525	0.77397
23	5.993	VV	0.0248	257.48105	124.09732	6.65611
24	6.007	VV	4.75e-3	32.36322	100.65310	0.83662
25	6.016	VB	0.0199	144.37733	89.28498	3.73228
26	6.114	PB	2.00e-3	1.57575	13.14088	0.04073
27	6.135	BV	7.52e-3	15.37064	26.68386	0.39734
28	6.144	VV	2.61e-3	4.16270	24.19652	0.10761
29	6.151	VV	5.07e-3	7.00281	17.49008	0.18103
30	6.162	VB	4.87e-3	7.58831	22.88600	0.19616
31	6.178	BB	0.0153	37.55935	29.83279	0.97094
32	6.230	PP	7.57e-3	12.09153	21.47808	0.31258
33	6.249	BP	4.53e-3	5.50208	16.32087	0.14223
34	6.277	BV	6.25e-3	9.58227	22.15452	0.24771
35	6.299	VV	9.17e-3	28.96418	39.45195	0.74875
36	6.310	VV	5.45e-3	17.88711	43.06253	0.46240
37	6.317	VV	5.91e-3	14.79911	35.16646	0.38257
38	6.326	VP	4.19e-3	6.66053	21.66598	0.17218
39	6.346	BP	6.04e-3	4.67763	12.89910	0.12092
40	6.380	BV	0.0165	52.92083	38.74557	1.36805
41	6.480	BV	8.52e-3	35.37796	55.27410	0.91455
42	6.531	VB	0.0549	516.08777	112.09123	13.34133
43	6.631	PP	2.23e-3	1.88613	12.00655	0.04876
44	6.699	PV	4.92e-3	7.58600	20.48024	0.19610
45	6.710	VV	4.29e-3	8.18540	25.86587	0.21160
46	6.721	VP	4.56e-3	6.93142	20.43971	0.17918
47	6.726	VV	2.77e-3	4.17759	22.43221	0.10799
48	6.731	VB	3.05e-3	2.80175	13.34625	0.07243
49	6.753	BP	3.34e-3	2.55289	12.72914	0.06599
50	6.825	BV	0.0115	26.34985	29.94948	0.68117
51	6.845	VV	0.0154	42.82964	34.16648	1.10718
52	6.872	VP	8.89e-3	15.56101	29.17169	0.40227
53	6.931	BV	9.52e-3	14.23414	19.05394	0.36797
54	6.937	VV	4.29e-3	4.18564	13.24503	0.10820
55	6.953	VV	4.79e-3	6.73512	19.67735	0.17411
56	6.963	VV	0.0122	27.58898	28.22921	0.71320
57	6.996	VB	0.0219	74.02618	40.49836	1.91364
58	7.092	PV	7.99e-3	12.03928	20.67778	0.31123
59	7.142	BP	8.44e-3	8.58412	13.82490	0.22191
60	7.172	VV	4.19e-3	4.08601	14.04521	0.10563
61	7.188	VV	7.17e-3	10.17340	20.55761	0.26299
62	7.195	VP	7.71e-3	8.75569	18.92094	0.22634
63	7.214	VV	7.76e-3	11.70177	19.06760	0.30250
64	7.290	BP	0.0195	65.08470	40.09792	1.68250
65	7.369	PP	8.86e-3	11.20582	15.83494	0.28968
66	7.399	VB	0.0217	42.19901	23.29194	1.09088
67	7.486	PV	0.0117	19.99986	22.65274	0.51701
68	7.509	VV	4.07e-3	7.08016	23.78975	0.18303
69	7.519	VB	0.0140	27.09118	23.56936	0.70033
70	7.624	PB	4.20e-3	2.51742	8.14979	0.06508
71	7.651	BB	4.31e-3	2.51617	7.92292	0.06505
72	7.690	PB	6.99e-3	8.79759	15.56563	0.22743
73	7.731	BV	8.03e-3	3.64252	5.56714	0.09416
74	7.747	VP	3.62e-3	3.32017	14.81004	0.08583
75	7.784	PP	9.41e-3	14.04303	18.59240	0.36302
76	7.797	VBA	2.88e-3	2.67503	13.69253	0.06915

Totals : 3868.33884 3038.27528

Results obtained with enhanced integrator!

Signal 2: FID2 B,

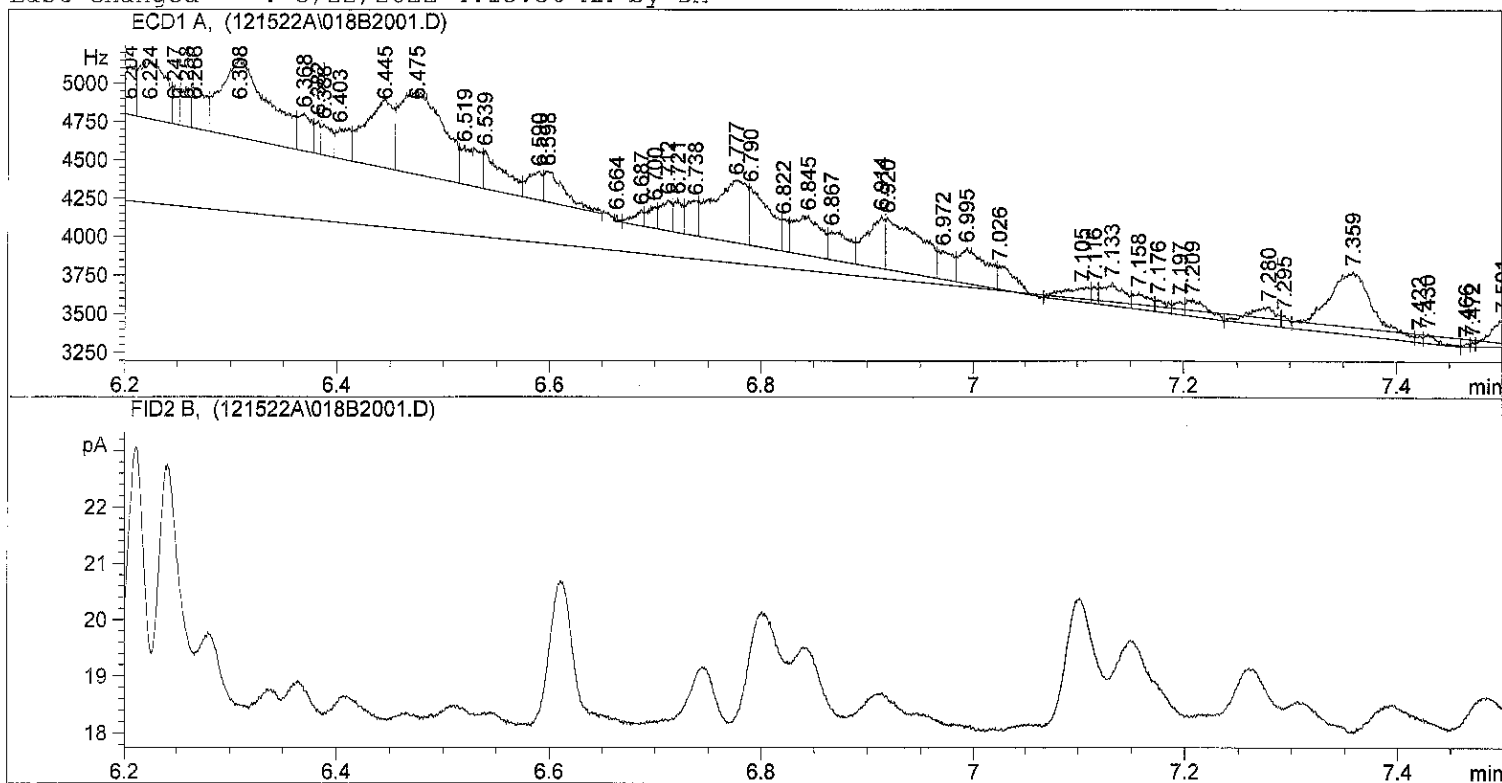
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\*\*\* End of Report \*\*\*

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Injection Date : 12/15/2022 6:18:12 PM      Seq. Line : 20
Sample Name    : 22L0246 47                 Location  : Vial 18
Acq. Operator  : TW                          Inj      : 1
                                           Inj Volume : 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
    
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Area Percent Report

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Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.250	PV	0.0164	210.83766	155.52992	0.26406
2	5.270	VV	5.60e-3	72.43955	176.22546	0.09072
3	5.279	VP	0.0147	172.14110	195.37440	0.21559
4	5.304	VV	5.02e-3	28.84547	88.06363	0.03613
5	5.332	VV	0.0243	799.57306	403.96014	1.00140
6	5.383	VV	0.0154	481.35831	384.71503	0.60286
7	5.391	VV	0.0129	419.72388	398.28415	0.52567
8	5.420	VV	0.0119	490.07880	499.32785	0.61378
9	5.449	VB S	0.2299	4.87901e4	2493.54810	61.10572
10	5.494	BV T	1.08e-3	2.96786	45.62928	0.00372
11	5.523	VV T	0.0131	228.32588	212.58549	0.28596
12	5.551	VV T	7.45e-3	33.38210	62.30622	0.04181
13	5.560	VV T	3.98e-3	12.43192	52.02450	0.01557
14	5.593	VV T	0.0109	126.71979	152.58881	0.15871
15	5.600	VV T	7.90e-3	59.82195	126.20215	0.07492
16	5.612	VV T	3.97e-3	14.69929	61.78362	0.01841
17	5.617	VV T	4.57e-3	23.73306	86.46844	0.02972



Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.632	VV T	0.0119	158.16458	163.44720	0.19809
19	5.657	VV T	0.0169	305.27014	236.40752	0.38233
20	5.699	VV T	0.0160	243.96866	194.63747	0.30555
21	5.715	VV T	5.12e-3	36.24120	93.62711	0.04539
22	5.729	VV T	8.86e-3	89.60266	126.61649	0.11222
23	5.739	VV T	4.29e-3	30.57885	96.56936	0.03830
24	5.752	VB T	0.0104	68.96341	87.41717	0.08637
25	5.793	BV T	9.72e-3	152.86720	199.92198	0.19145
26	5.821	VV T	0.0189	1208.28088	786.82349	1.51327
27	5.875	VV T	0.0285	1160.01904	481.93961	1.45283
28	5.928	VV T	0.0140	774.72949	684.20105	0.97029
29	5.945	VV T	0.0271	2141.45605	963.19611	2.68200
30	5.992	VV T	6.90e-3	218.39510	392.08896	0.27352
31	6.017	VV T	0.0203	2464.84155	1491.67261	3.08702
32	6.048	VV T	0.0241	603.23553	416.60217	0.75550
33	6.082	VV T	7.74e-3	191.44157	334.64294	0.23977
34	6.095	VV T	0.0102	354.73764	439.90692	0.44428
35	6.104	VV T	6.05e-3	214.01796	475.99765	0.26804
36	6.111	VV T	0.0261	774.99414	494.55548	0.97062
37	6.145	PV T	9.11e-3	151.22528	276.75598	0.18940
38	6.165	PV T	0.0309	920.57764	369.29489	1.15295
39	6.204	PV T	8.36e-3	207.79674	320.47876	0.26025
40	6.224	PV T	0.0202	650.93451	382.98499	0.81524
41	6.247	PV T	6.44e-3	95.57746	247.46162	0.11970
42	6.258	PV T	7.87e-3	160.99091	258.36050	0.20163
43	6.266	PV T	0.0146	231.50812	264.61963	0.28995
44	6.308	PV T	0.0367	1567.93835	507.31665	1.96372
45	6.368	PV T	0.0105	203.72784	246.22688	0.25515
46	6.382	PV T	5.16e-3	84.63174	216.48955	0.10599
47	6.388	PV T	8.77e-3	141.35616	201.77167	0.17704
48	6.403	PV T	0.0158	190.02844	200.73398	0.23800
49	6.445	PV T	0.0224	800.37097	444.42340	1.00240
50	6.475	PV T	0.0344	1523.00208	538.15649	1.90744
51	6.519	PV T	0.0216	311.19424	240.23906	0.38975
52	6.539	PV T	0.0218	323.73602	247.17252	0.40545
53	6.590	PV T	0.0119	173.26379	185.66942	0.21700
54	6.598	PB T	0.0162	271.41327	200.52473	0.33992
55	6.664	BV T	2.77e-3	6.84316	41.12421	0.00857
56	6.687	PV T	8.21e-3	67.26033	103.08402	0.08424
57	6.700	PV T	7.94e-3	86.30902	145.07053	0.10810
58	6.712	PV T	9.64e-3	149.22166	201.53493	0.18689
59	6.721	PV T	9.09e-3	117.13296	214.83435	0.14670
60	6.738	PV T	9.36e-3	171.42389	228.38229	0.21469
61	6.777	PV T	0.0263	903.52264	406.61368	1.13159
62	6.790	PV T	0.0231	523.90314	377.72366	0.65615
63	6.822	PV T	7.21e-3	89.15121	206.10902	0.11165
64	6.845	PV T	0.0212	457.99722	259.63995	0.57360
65	6.867	PV T	0.0229	257.64893	187.14229	0.32268
66	6.914	PV T	0.0142	402.06860	343.85107	0.50356
67	6.920	PV T	0.0383	764.40973	332.88770	0.95736
68	6.972	PV T	0.0167	183.47354	182.57449	0.22979
69	6.995	PV T	0.0217	416.41187	230.20789	0.52152
70	7.026	PV T	0.0195	177.13881	151.10661	0.22185
71	7.105	PV T	0.0201	160.35504	94.77277	0.20083
72	7.116	PV T	6.22e-3	39.76176	106.60861	0.04980
73	7.133	PV T	0.0163	203.53075	149.31564	0.25491
74	7.158	PV T	0.0127	112.16769	106.39906	0.14048
75	7.176	PV T	0.0129	59.99466	77.43799	0.07514
76	7.197	PV T	8.37e-3	52.36312	90.19547	0.06558
77	7.209	PV T	0.0228	145.56915	106.22922	0.18231
78	7.280	PV T	0.0210	206.22256	120.41551	0.25828
79	7.295	PV T	7.71e-3	36.06097	77.92984	0.04516
80	7.359	PV T	0.0365	1214.84875	408.63965	1.52150
81	7.422	PV T	5.53e-3	16.99671	43.79240	0.02129
82	7.430	PV T	9.11e-3	45.55983	62.46218	0.05706

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.466	PV T	4.41e-3	7.98077	23.24460	0.01000
84	7.472	PV T	3.45e-3	6.67213	32.19495	0.00836
85	7.501	PV T	0.0183	279.46777	183.98320	0.35001
86	7.532	PB T	6.62e-3	9.70542	25.59785	0.01216
87	7.665	PV	0.0572	1177.03918	242.78156	1.47415
88	7.747	VV	0.0183	99.31854	65.45995	0.12439
89	7.783	VV	0.0119	22.98054	27.05498	0.02878
90	7.793	VP	5.00e-3	6.64057	18.43390	0.00832

Totals : 7.98454e4 2.47784e4

Results obtained with enhanced integrator!

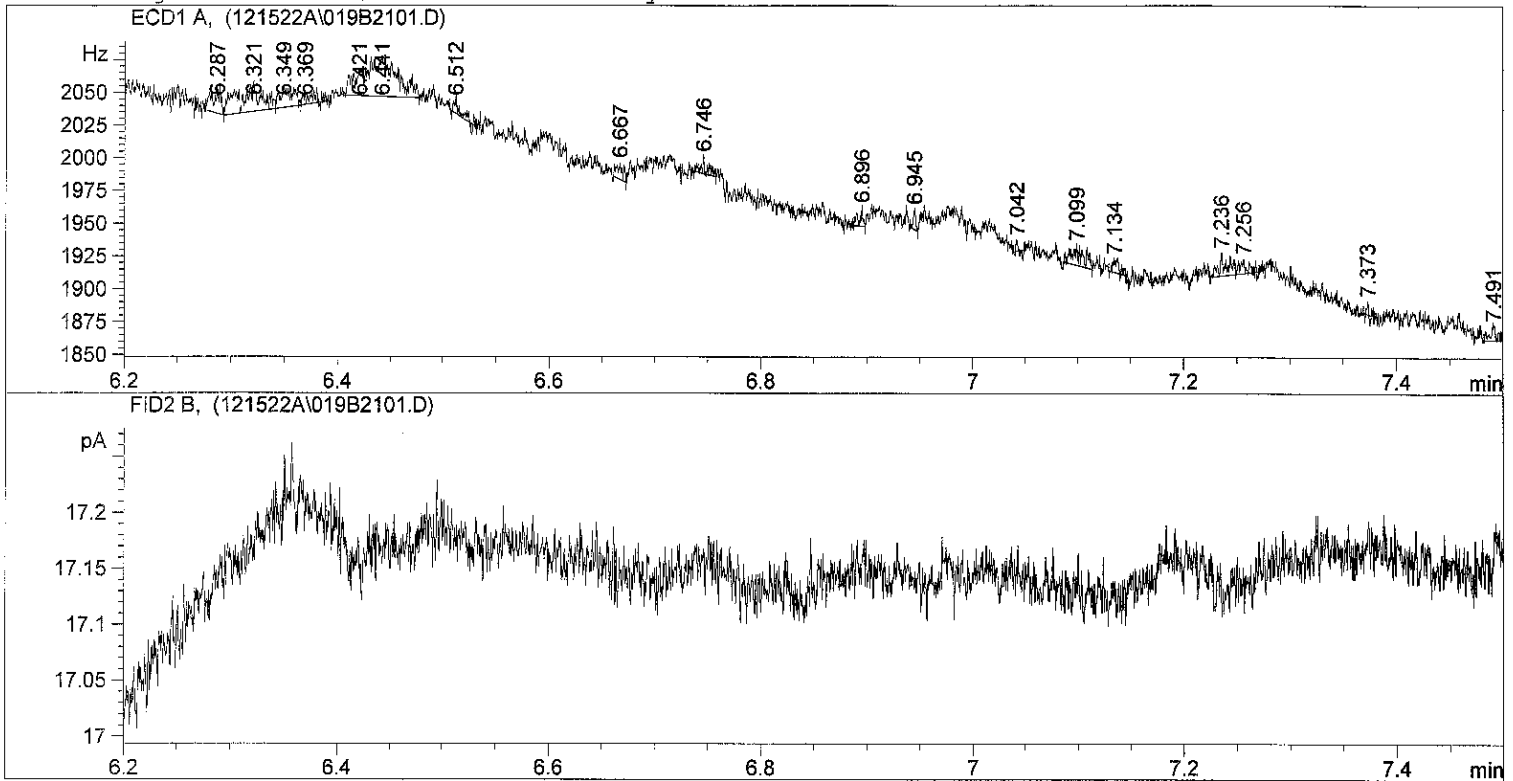
Signal 2: FID2 B,

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\*\*\* End of Report \*\*\*

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Injection Date   : 12/15/2022 6:29:24 PM      Seq. Line : 21
Sample Name     : 22L0246 48                 Location  : Vial 19
Acq. Operator  : TW                          Inj      : 1
                                           Inj Volume: 1 µl

Sequence File   : C:\HPCHEM\2\SEQUENCE\121522A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 3/22/2022 4:13:36 AM by DM
    
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Area Percent Report  
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Sorted By      : Signal
Multiplier    : 1.0000
Dilution      : 1.0000
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.412	BV	0.0248	45.50279	22.34348	10.51864
2	6.042	PV	0.0242	95.90776	48.26338	22.17050
3	6.063	VV	0.0184	70.87139	49.10826	16.38297
4	6.079	VB	5.61e-3	13.03718	31.62193	3.01374
5	6.186	PP	5.67e-3	5.80783	12.85453	1.34257
6	6.287	BP	6.92e-3	10.49967	18.77971	2.42716
7	6.321	VV	0.0176	30.18999	21.74572	6.97886
8	6.349	VP	9.96e-3	12.41509	15.14393	2.86993
9	6.369	VP	6.69e-3	5.60037	10.39447	1.29461
10	6.421	PV	9.89e-3	13.61852	18.72432	3.14812
11	6.441	VP	0.0199	52.10212	31.20294	12.04418
12	6.512	BP	4.80e-3	3.98565	12.90441	0.92134
13	6.667	BP	5.33e-3	5.07160	12.01183	1.17238
14	6.746	BB	5.39e-3	4.52861	12.62146	1.04686
15	6.896	PP	3.57e-3	3.75516	13.80592	0.86806
16	6.945	PP	2.63e-3	2.33353	14.86274	0.53943
17	7.042	PB	1.11e-3	3.42923e-1	7.79245	0.07927

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	7.099	PP	0.0106	11.72175	14.59856	2.70966
19	7.134	PP	6.06e-3	4.18692	9.29010	0.96787
20	7.236	PB	6.81e-3	9.09790	17.08845	2.10311
21	7.256	BP	7.15e-3	5.24826	9.96020	1.21321
22	7.373	PB	1.74e-3	7.25791e-1	9.00727	0.16778
23	7.491	PB	6.88e-3	5.44752	10.45350	1.25928
24	7.552	BP	5.38e-3	4.15554	10.14166	0.96062
25	7.567	VP	8.07e-3	8.17671	13.89093	1.89017
26	7.753	BB	5.95e-3	8.26126	18.71999	1.90971

Totals :                                   432.59185   467.33212

Results obtained with enhanced integrator!

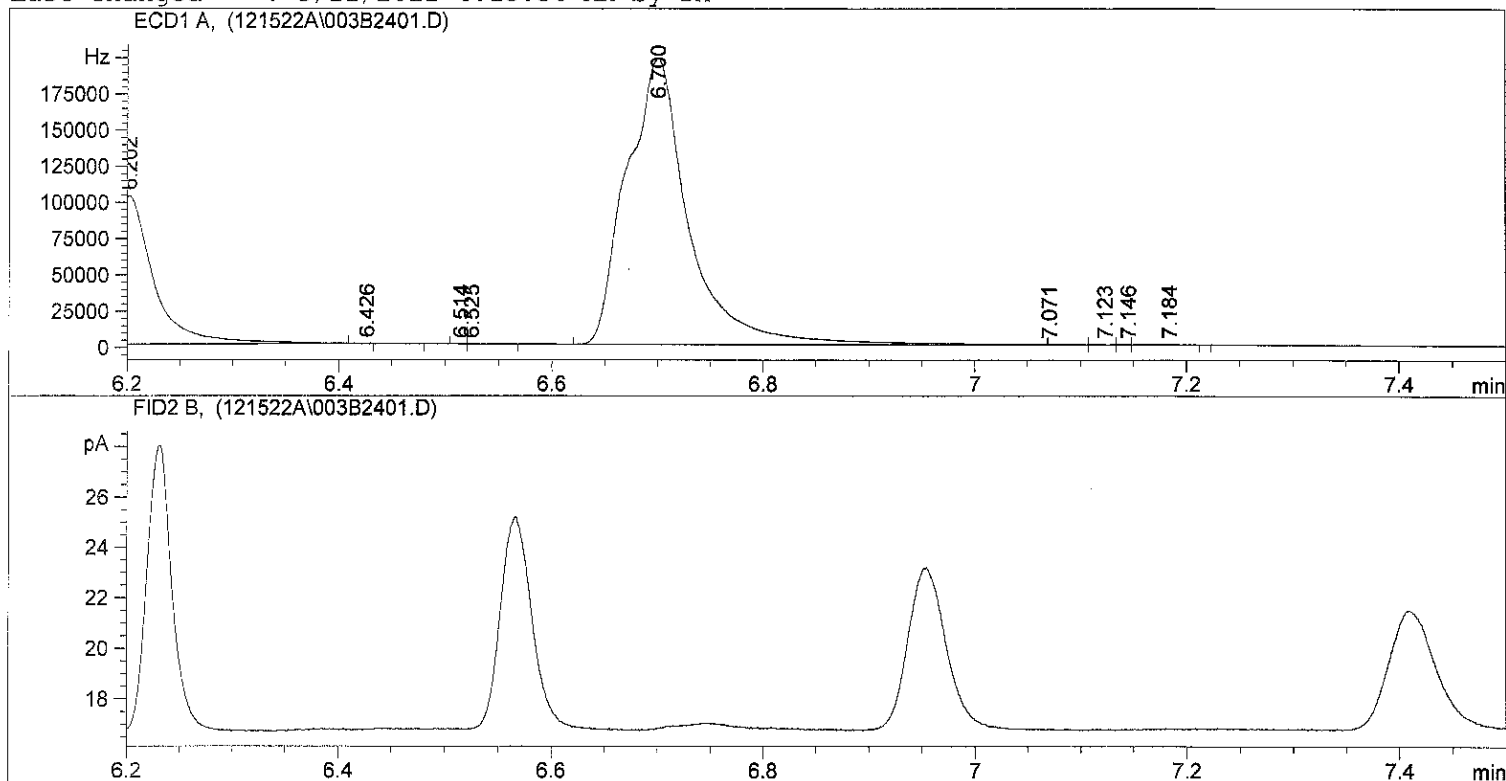
Signal 2: FID2 B,

=====  
\*\*\* End of Report \*\*\*

```

=====
Injection Date : 12/15/2022 7:02:42 PM      Seq. Line : 24
Sample Name    : CS4                        Location  : Vial 3
Acq. Operator  : TW                          Inj       : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\121522A.S
Method         : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed   : 3/22/2022 4:13:36 AM by DM
    
```



Area Percent Report

```

Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
    
```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.298	BP	3.57e-3	118.32499	1009.92175	0.00351
2	5.510	VV S	0.0334	5.10223e5	2.05040e5	15.14573
3	5.608	VV S	0.0461	7.41514e5	2.67853e5	22.01149
4	5.675	VV S	0.0372	2.53451e5	1.13696e5	7.52358
5	5.724	VV S	0.0499	2.88357e5	9.63649e4	8.55975
6	5.971	VV S	0.0356	2.87336e5	1.34567e5	8.52945
7	6.121	VV S	0.0348	2.19984e5	1.05250e5	6.53013
8	6.202	VB S	0.0427	2.61691e5	1.02210e5	7.76819
9	6.426	BB T	9.88e-3	35.77701	44.95899	0.00106
10	6.514	PV	5.76e-3	8.35159	24.18460	0.00025
11	6.525	VP	7.47e-3	21.63937	36.74712	0.00064
12	6.700	PB S	0.0534	8.05532e5	1.97236e5	23.91185
13	7.071	BV T	8.56e-3	11.58642	22.55488	0.00034
14	7.123	PV T	0.0114	21.00958	24.47044	0.00062
15	7.146	PV T	7.67e-3	17.20271	30.29912	0.00051
16	7.184	PB T	0.0304	199.04634	77.52887	0.00591
17	7.582	BB	9.23e-3	4.60530	6.22383	0.00014

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	7.668	PV	0.0283	226.63692	95.43517	0.00673
19	7.721	VB	4.62e-3	3.86889	11.21459	0.00011

Totals :                           3.36876e6  1.22360e6

Results obtained with enhanced integrator!

Signal 2: FID2 B,

=====  
\*\*\* End of Report \*\*\*



Analytical Resources, Incorporated  
Analytical Chemists and Consultants

Dioxin Extraction Laboratory – Glassware

Batch ID: RL20419

Work Order: 22L0155, 22L0246

Extraction Parameter: Dioxin

ARI Analyst: TW

ARI Sample ID	300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
<u>BK0419</u>	<u>19</u>	<u>31</u>	<u>1</u>	<u>25</u>	<u>2</u>	<u>47</u>	<u>8</u>	<u>9</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>A1</u>
<u>-BS1</u>	<u>27</u>	<u>3</u>	<u>1</u>	<u>256</u>	<u>4</u>	<u>43</u>	<u>49</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>A2</u>
<u>-DUP1</u>	<u>24</u>	<u>19</u>	<u>1</u>	<u>32</u>	<u>9</u>	<u>225</u>	<u>57</u>	<u>56</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>A3</u>
<u>-SRM1</u>	<u>86</u>	<u>6</u>	<u>1</u>	<u>9</u>	<u>7</u>	<u>16</u>	<u>47</u>	<u>74</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>A5</u>
<u>22L0155</u>	<u>14</u>	<u>111</u>	<u>1</u>	<u>4</u>	<u>14</u>	<u>222</u>	<u>115</u>	<u>60</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>A6</u>
<u>22L0246</u>	<u>29</u>	<u>80</u>	<u>1</u>	<u>14</u>	<u>36</u>	<u>13</u>	<u>4</u>	<u>13</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>B1</u>
<u>-08</u>	<u>20</u>	<u>11</u>	<u>1</u>	<u>6</u>	<u>42</u>	<u>62</u>	<u>139</u>	<u>101</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>B2</u>
<u>-09</u>	<u>59</u>	<u>11</u>	<u>1</u>	<u>29</u>	<u>62</u>	<u>217</u>	<u>22</u>	<u>76</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>B3</u>
<u>-10</u>	<u>6</u>	<u>29</u>	<u>1</u>	<u>8</u>	<u>66</u>	<u>19</u>	<u>123</u>	<u>47</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>B4</u>
<u>-11</u>	<u>68</u>	<u>23</u>	<u>1</u>	<u>3</u>	<u>51</u>	<u>48</u>	<u>67</u>	<u>35</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>B5</u>
<u>-12</u>	<u>70</u>	<u>23</u>	<u>1</u>	<u>31</u>	<u>94</u>	<u>45</u>	<u>158</u>	<u>31</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>B6</u>
<u>-13</u>	<u>53</u>	<u>1</u>	<u>1</u>	<u>19</u>	<u>34</u>	<u>41</u>	<u>142</u>	<u>17</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>C1</u>
<u>-14</u>	<u>26</u>	<u>1</u>	<u>1</u>	<u>18</u>	<u>39</u>	<u>28</u>	<u>137</u>	<u>37</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>C2</u>
<u>-42</u>	<u>17</u>	<u>1</u>	<u>1</u>	<u>88</u>	<u>58</u>	<u>72</u>	<u>168</u>	<u>51</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>C3</u>
<u>-43</u>	<u>87</u>	<u>5</u>	<u>1</u>	<u>47</u>	<u>79</u>	<u>50</u>	<u>29</u>	<u>62</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>C4</u>
<u>-44</u>	<u>49</u>	<u>5</u>	<u>1</u>	<u>47</u>	<u>56</u>	<u>11</u>	<u>15</u>	<u>10</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>C5</u>
<u>-45</u>	<u>31</u>	<u>94</u>	<u>1</u>	<u>20</u>	<u>50</u>	<u>64</u>	<u>10</u>	<u>64</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>C6</u>
<u>-46</u>	<u>21</u>	<u>15</u>	<u>1</u>	<u>46</u>	<u>47</u>	<u>17</u>	<u>88</u>	<u>77</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>D1</u>
<u>-47</u>	<u>85</u>	<u>64</u>	<u>1</u>	<u>2</u>	<u>8</u>	<u>10</u>	<u>64</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>D2</u>
<u>-48</u>	<u>7</u>	<u>77</u>	<u>1</u>	<u>16</u>	<u>17</u>	<u>70</u>	<u>36</u>	<u>33</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>4</u>	<u>4</u>	<u>D3</u>



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CKL0261

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665 Sulfuric Acid Cleanup - uL

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT810E	22L0246-12	23020124	12/20/2022	
LDW22-IT809A	22L0246-42	23020127	12/20/2022	
LDW22-IT810G	22L0246-14	23020126	12/20/2022	
LDW22-IT810F	22L0246-13	23020125	12/20/2022	
LDW22-IT810D	22L0246-11	22122823	12/20/2022	
LDW22-IT810B-FD	22L0246-10	22122822	12/20/2022	
LDW22-IT810B	22L0246-08	22122820	12/20/2022	
LDW22-IT810A	22L0246-07	22122819	12/20/2022	
LDW22-IT809G	22L0246-48	23020133	12/20/2022	
LDW22-IT810C	22L0246-09	22122821	12/20/2022	
LDW22-IT809D	22L0246-45	23020130	12/20/2022	
LCS	BKL0419-BS1	22122815	12/20/2022	
Duplicate	BKL0419-DUP1	22122818	12/20/2022	
LDW22-IT809C	22L0246-44	23020129	12/20/2022	
LDW22-IT809C	22L0246-44RE1	23030804	12/20/2022	Added 3/8/2023 by PK
LDW22-IT809B	22L0246-43	23020128	12/20/2022	
LDW22-IT809D	22L0246-45RE1	23030805	12/20/2022	Added 3/8/2023 by PK
LDW22-IT809E	22L0246-46	23020131	12/20/2022	
LDW22-IT809F	22L0246-47	23020132	12/20/2022	
Reference	BKL0419-SRM1	22122816	12/20/2022	
Blank	BKL0419-BLK1	22122814	12/20/2022	





## CLEANUP BENCH SHEET

CKL0261

Matrix: Solid

Cleanup using: HRGCMS - EPA 3665 Sulfuric Acid Cleanup - uL

Printed: 12/27/2022 12:39:22PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0155-24	D	LDW22-IT805	D 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-07	A	LDW22-IT810A	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-08	A	LDW22-IT810B	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-09	A	LDW22-IT810C	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-10	A	LDW22-IT810B-FD	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-11	A	LDW22-IT810D	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-12	A	LDW22-IT810E	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-13	A	LDW22-IT810F	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-14	A	LDW22-IT810G	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-42	A	LDW22-IT809A	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-43	A	LDW22-IT809B	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-44	A	LDW22-IT809C	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-45	A	LDW22-IT809D	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-46	A	LDW22-IT809E	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-47	A	LDW22-IT809F	A 01	20	20	1613B Dioxin	12/20/2022	TW	
22L0246-48	A	LDW22-IT809G	A 01	20	20	1613B Dioxin	12/20/2022	TW	
BKL0419-BLK1	-	Blank	-	20	20	-	12/20/2022	TW	
BKL0419-BS1	-	LCS	-	20	20	-	12/20/2022	TW	
BKL0419-DUP1	-	Duplicate	-	20	20	-	12/20/2022	TW	
BKL0419-SRM1	-	Reference	-	20	20	-	12/20/2022	TW	



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CKL0262

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup - uL

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT810F	22L0246-13	23020125	12/22/2022	
LDW22-IT809E	22L0246-46	23020131	12/22/2022	
LDW22-IT810A	22L0246-07	22122819	12/22/2022	
LDW22-IT809G	22L0246-48	23020133	12/22/2022	
LDW22-IT809F	22L0246-47	23020132	12/22/2022	
LDW22-IT810B	22L0246-08	22122820	12/22/2022	
LDW22-IT809D	22L0246-45RE1	23030805	12/22/2022	Added 3/8/2023 by PK
LDW22-IT809D	22L0246-45	23020130	12/22/2022	
LDW22-IT809C	22L0246-44RE1	23030804	12/22/2022	Added 3/8/2023 by PK
LDW22-IT809A	22L0246-42	23020127	12/22/2022	
LDW22-IT810B-FD	22L0246-10	22122822	12/22/2022	
Blank	BKL0419-BLK1	22122814	12/22/2022	
LDW22-IT809C	22L0246-44	23020129	12/22/2022	
LCS	BKL0419-BS1	22122815	12/22/2022	
LDW22-IT810C	22L0246-09	22122821	12/22/2022	
LDW22-IT810D	22L0246-11	22122823	12/22/2022	
Duplicate	BKL0419-DUP1	22122818	12/22/2022	
Reference	BKL0419-SRM1	22122816	12/22/2022	
LDW22-IT810G	22L0246-14	23020126	12/22/2022	
LDW22-IT810E	22L0246-12	23020124	12/22/2022	
LDW22-IT809B	22L0246-43	23020128	12/22/2022	



## CLEANUP BENCH SHEET

CKL0262

Matrix: Solid

Cleanup using: HRGCMS - EPA 3660C Silica Gel Cleanup - uL

Printed: 12/27/2022 12:40:10PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0155-24	D	LDW22-IT805	D 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-07	A	LDW22-IT810A	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-08	A	LDW22-IT810B	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-09	A	LDW22-IT810C	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-10	A	LDW22-IT810B-FD	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-11	A	LDW22-IT810D	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-12	A	LDW22-IT810E	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-13	A	LDW22-IT810F	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-14	A	LDW22-IT810G	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-42	A	LDW22-IT809A	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-43	A	LDW22-IT809B	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-44	A	LDW22-IT809C	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-45	A	LDW22-IT809D	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-46	A	LDW22-IT809E	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-47	A	LDW22-IT809F	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-48	A	LDW22-IT809G	A 01	20	20	1613B Dioxin	12/22/2022	TW	
BKL0419-BLK1	-	Blank	-	20	20	-	12/22/2022	TW	
BKL0419-BS1	-	LCS	-	20	20	-	12/22/2022	TW	
BKL0419-DUP1	-	Duplicate	-	20	20	-	12/22/2022	TW	
BKL0419-SRM1	-	Reference	-	20	20	-	12/22/2022	TW	



## CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CKL0263

Cleanup Type: Florisil

Cleanup Method: EPA 3620B Florisil Cleanup (uL)

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT809F	22L0246-47	23020132	12/22/2022	
Duplicate	BKL0419-DUP1	22122818	12/22/2022	
LDW22-IT810A	22L0246-07	22122819	12/22/2022	
LCS	BKL0419-BS1	22122815	12/22/2022	
LDW22-IT810G	22L0246-14	23020126	12/22/2022	
LDW22-IT810F	22L0246-13	23020125	12/22/2022	
LDW22-IT810E	22L0246-12	23020124	12/22/2022	
LDW22-IT810D	22L0246-11	22122823	12/22/2022	
LDW22-IT810C	22L0246-09	22122821	12/22/2022	
Blank	BKL0419-BLK1	22122814	12/22/2022	
LDW22-IT809G	22L0246-48	23020133	12/22/2022	
LDW22-IT810B-FD	22L0246-10	22122822	12/22/2022	
LDW22-IT809E	22L0246-46	23020131	12/22/2022	
LDW22-IT809D	22L0246-45RE1	23030805	12/22/2022	Added 3/8/2023 by PK
LDW22-IT809D	22L0246-45	23020130	12/22/2022	
LDW22-IT809C	22L0246-44RE1	23030804	12/22/2022	Added 3/8/2023 by PK
LDW22-IT809C	22L0246-44	23020129	12/22/2022	
LDW22-IT809B	22L0246-43	23020128	12/22/2022	
LDW22-IT809A	22L0246-42	23020127	12/22/2022	
Reference	BKL0419-SRM1	22122816	12/22/2022	
LDW22-IT810B	22L0246-08	22122820	12/22/2022	



## CLEANUP BENCH SHEET

CKL0263

Matrix: Solid      Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup (uL)      Check Standard: CKK0015-FLO1      Printed: 12/27/2022 12:40:55PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0155-24	D	LDW22-IT805	D 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-07	A	LDW22-IT810A	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-08	A	LDW22-IT810B	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-09	A	LDW22-IT810C	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-10	A	LDW22-IT810B-FD	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-11	A	LDW22-IT810D	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-12	A	LDW22-IT810E	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-13	A	LDW22-IT810F	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-14	A	LDW22-IT810G	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-42	A	LDW22-IT809A	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-43	A	LDW22-IT809B	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-44	A	LDW22-IT809C	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-45	A	LDW22-IT809D	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-46	A	LDW22-IT809E	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-47	A	LDW22-IT809F	A 01	20	20	1613B Dioxin	12/22/2022	TW	
22L0246-48	A	LDW22-IT809G	A 01	20	20	1613B Dioxin	12/22/2022	TW	
BKL0419-BLK1	-	Blank	-	20	20	-	12/22/2022	TW	
BKL0419-BS1	-	LCS	-	20	20	-	12/22/2022	TW	
BKL0419-DUP1	-	Duplicate	-	20	20	-	12/22/2022	TW	
BKL0419-SRM1	-	Reference	-	20	20	-	12/22/2022	TW	



Blank

**Form 1**  
**METHOD BLANK DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>22L0246</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>AOC4 UR Phase 3</u>	
Matrix: <u>Solid</u>	Laboratory ID: <u>BKL0419-BLK1</u>	File ID: <u>22122814</u>
Sampled: <u>N/A</u>	Prepared: <u>12/19/22 15:18</u>	Analyzed: <u>12/28/22 21:35</u>
Solids Wt%: <u></u>	Preparation: <u>EPA 1613</u>	Initial/Final: <u>10 g / 20 uL</u>
Result Basis: <u>Dry</u>	Sequence: <u>SKL0339</u>	Calibration: <u>FC00062</u>
Batch: <u>BKL0419</u>	Instrument: <u>AUTOSPEC01</u>	Column: <u>RTX-Dioxin2</u>

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.104	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.117	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.129	1.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.116	1.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.128	1.00	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.110	1.00	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.465	1.054-1.426	0.110	1.00	0.130	ng/kg	EMPC, J
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.110	1.00	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.146	1.00	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.147	1.00	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.145	1.00	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.157	1.00	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.318	0.893-1.208	0.119	1.00	0.286	ng/kg	EMPC, J
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.182	1.00	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.705	0.893-1.208	0.232	2.50	0.520	ng/kg	EMPC, J
39001-02-0	OCDF	1	1.085	0.757-1.024	0.300	2.50	1.46	ng/kg	EMPC, J
3268-87-9	OCDD	1	0.930	0.757-1.024	0.322	10.0	3.80	ng/kg	J

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	ND	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	ND	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	0.663	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	0.548	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC):	0.023
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC):	0.211



Blank

**Form 2**  
**METHOD BLANK DATA SHEET**  
**EPA 1613B**  
**Dioxins/Furans by HRGC/HRMS**

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>22L0246</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>AOC4 UR Phase 3</u>
Matrix: <u>Solid</u>	Laboratory ID: <u>BKL0419-BLK1</u>
Sampled: <u>N/A</u>	File ID: <u>22122814</u>
Solids Wt%: <u>0.00</u>	Prepared: <u>12/19/22 15:18</u>
Result Basis: <u>Dry</u>	Analyzed: <u>12/28/22 21:35</u>
Batch: <u>BKL0419</u>	Preparation: <u>EPA 1613</u>
	Initial/Final: <u>10 g / 20 uL</u>
	Sequence: <u>SKL0339</u>
	Calibration: <u>FC00062</u>
	Instrument: <u>AUTOSPEC01</u>
	Column: <u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF	1	0.775	0.655-0.886	0.15	77.0	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.760	0.655-0.886	0.23	92.8	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.555	1.318-1.783	0.29	81.4	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.591	1.318-1.783	0.31	85.5	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.625	1.318-1.783	0.19	89.5	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.502	0.434-0.587	0.31	94.8	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.507	0.434-0.587	0.29	94.2	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.505	0.434-0.587	0.33	95.3	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.506	0.434-0.587	0.39	101	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.285	1.054-1.426	0.29	93.9	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.251	1.054-1.426	0.26	88.1	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.440	0.374-0.506	0.43	86.4	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.463	0.374-0.506	0.55	91.0	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.088	0.893-1.208	0.47	104	23 - 140 %	
13C12-OCDD	1	0.885	0.757-1.024	0.75	101	17 - 157 %	
37Cl4-2,3,7,8-TCDD	1	328.000		0.12	98.0	35 - 197 %	

\* Values outside of QC limits

**Quantify Sample Summary Report      MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:53:38 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30

Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.985		0.770	588	995								
12378-PeCDF					0.906		1.550	626	966								
23478-PeCDF					1.008		1.550	626	966								
123478-HxCDF					1.045		1.240	621	628								
234678-HxCDF					1.101		1.240	621	628								
123678-HxCDF	35.285	1.001	1.732e2	1.182e2	1.019	1.465	1.240	621	628	2.28e3	2.37e3	3.7	3.8	YES	bb	bb	0.065
123789-HxCDF					0.992		1.240	621	628								
1234678-HpCDF	39.006	1.001	3.219e2	2.442e2	1.243	1.318	1.050	730	553	6.31e3	4.86e3	8.6	8.8	YES	bb	bb	0.143
1234789-HpCDF					1.192		1.050	730	553								
OCDF	45.595	1.006	1.014e3	9.345e2	1.303	1.085	0.890	920	623	1.00e4	1.04e4	10.9	16.7	YES	MM	bb	0.728
2378-TCDD					1.168		0.770	977	584								
12378-PeCDD					1.152		1.550	642	566								
123478-HxCDD					0.934		1.240	712	651								
123678-HxCDD					0.950		1.240	712	651								
123789-HxCDD					0.873		1.240	712	651								
1234678-HpCDD	40.511	1.000	3.294e2	4.674e2	1.268	0.705	1.050	753	966	9.04e3	7.45e3	12.0	7.7	YES	bd	bb	0.260
OCDD	45.348	1.000	2.049e3	2.203e3	1.089	0.930	0.890	704	680	2.46e4	2.74e4	34.9	40.3	NO	bb	bb	1.901
13C-2378-TCDF	26.003	1.007	2.750e5	3.548e5	1.751	0.775	0.770	1625	1424	4.07e6	5.35e6	2503.0	3755.4	NO	bb	bb	76.959
13C-12378-PeCDF	30.171	1.168	3.339e5	2.148e5	1.442	1.555	1.550	2199	2811	4.97e6	3.15e6	2261.7	1120.1	NO	bb	bb	81.442
13C-23478-PeCDF	31.519	1.221	3.352e5	2.107e5	1.366	1.591	1.550	2199	2811	5.01e6	3.21e6	2278.2	1143.2	NO	bb	bb	85.538
13C-123478-HxCDF	35.129	0.956	1.383e5	2.757e5	1.095	0.502	0.510	1796	1622	2.18e6	4.36e6	1216.8	2685.6	NO	bd	bd	94.798
13C-123678-HxCDF	35.263	0.960	1.477e5	2.914e5	1.168	0.507	0.510	1796	1622	2.25e6	4.49e6	1254.8	2770.2	NO	db	db	94.241
13C-234678-HxCDF	36.132	0.983	1.304e5	2.583e5	1.023	0.505	0.510	1796	1622	2.08e6	4.15e6	1160.8	2556.6	NO	bb	bb	95.256
13C-123789-HxCDF	37.157	1.011	1.195e5	2.362e5	0.879	0.506	0.510	1796	1622	1.74e6	3.46e6	971.5	2135.6	NO	bb	bb	101.463
13C-1234678-HpCDF	38.984	1.061	9.743e4	2.215e5	0.925	0.440	0.440	1689	2283	1.59e6	3.58e6	942.6	1568.9	NO	bb	bb	86.374
13C-1234789-HpCDF	41.268	1.123	8.211e4	1.774e5	0.715	0.463	0.440	1689	2283	1.12e6	2.48e6	665.7	1085.6	NO	bb	bb	90.978
13C-1234-TCDD	25.821	0.000	2.041e5	2.632e5	1.000	0.776	0.770	1952	1086	3.13e6	4.07e6	1606.1	3747.6	NO	bb	bb	100.000
13C-2378-TCDD	26.638	1.032	2.026e5	2.664e5	1.081	0.760	0.770	1952	1086	2.97e6	3.90e6	1521.8	3589.0	NO	bb	bb	92.814
13C-12378-PeCDD	31.764	1.230	2.011e5	1.237e5	0.776	1.625	1.550	1049	739	3.04e6	1.91e6	2894.0	2579.3	NO	bb	bb	89.538
13C-123478-HxCDD	36.243	0.986	2.055e5	1.599e5	0.975	1.285	1.240	1317	1518	3.36e6	2.62e6	2548.6	1728.4	NO	bd	bd	93.938
13C-123678-HxCDD	36.355	0.989	2.083e5	1.665e5	1.067	1.251	1.240	1317	1518	3.30e6	2.64e6	2501.8	1738.7	NO	db	db	88.099
13C-1234678-HpCDD	40.511	1.102	1.259e5	1.158e5	0.582	1.088	1.050	1280	1471	1.82e6	1.68e6	1425.3	1144.6	NO	bb	bb	104.158
13C-OCDD	45.329	1.234	1.928e5	2.178e5	0.509	0.885	0.890	2294	1564	2.22e6	2.47e6	969.0	1577.7	NO	bb	bb	202.410
13C-123789-HxCDD	36.744	0.000	2.214e5	1.775e5	1.000	1.247	1.240	1317	1518	3.36e6	2.71e6	2547.3	1783.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.668	1.033	2.052e5		1.120			1651		3.00e6		1815.9			bb		39.208



Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:53:38 Pacific Standard Time

ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.300		0.770	588	995								
1289-TCDF					0.931		0.770	588	995								
13468-PECDF					1.308		1.550	597	1227								
12389-PECDF					0.860		1.550	626	966								
123468-HXCDF					1.156		1.240	621	628								
1368-TCDD					1.151		0.770	977	584								
1289-TCDD					0.950		0.770	977	584								
12479-PECDD					2.164		1.550	642	566								
12389-PECDD					1.371		1.550	642	566								
124679-HXCDD					1.153		1.240	712	651								
1234679-HPCDD	39.452	0.974	4.749e2	5.009e2	1.473	0.948	1.050	753	966	8.13e3	5.63e3	10.8	5.8	NO	bb	bb	0.274
Total-tetrafurans			0.000e0		1.072			588		0.00e0							
Total-penta1			0.000e0					597		0.00e0							
Total-pentafurans			0.000e0		0.924			626		0.00e0							
Total-hexafurans			0.000e0		1.063			621		0.00e0							
Total-heptafurans			5.846e2		1.218			730		8.17e3							0.331
Total-Furans			5.846e2		1.090			588		8.17e3							0.331
Total-tetradoxins			0.000e0		1.090			977		0.00e0							
Total-pentadoxins			0.000e0		1.562			642		0.00e0							
Total-hexadoxins			0.000e0		0.978			712		0.00e0							
Total-heptadoxins			4.749e2		1.371			753		8.13e3							0.274
Total-Dioxins			2.523e3		1.207			977		3.27e4							2.175
Total-TEQ			3.108e3					977		4.09e4							2.506
FUNCTION1 PFK			5.245e5					274078		1.11e7							
FUNCTION2 PFK			1.403e6					178994		2.81e7							0.000
FUNCTION3 PFK			3.812e5					181598		9.82e6							0.000
FUNCTION4 PFK			1.028e7					183384		5.01e7							
FUNCTION5 PFK			1.977e5					130384		6.39e6							
FUNCTION1 HXCD...			2.826e2					699		3.82e3							0.000
FUNCTION1 HPCD...			4.525e2					772		8.07e3							0.000
FUNCTION2 HPCD...			1.569e2					895		4.12e3							0.000
FUNCTION3 OCDPE			3.553e2					620		6.47e3							0.000
FUNCTION4 NCDPE			7.991e1					594		2.13e3							0.000
FUNCTION5 DCDPE			9.278e1					701		1.92e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:53:38 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.67	5.846e2	5.823e2	1.218	1.00	1.05	11.2	YES	NO	bb	bb	0.331

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.67	5.846e2	5.823e2	1.218	1.00	1.05	11.2	YES	NO	bb	bb	0.331

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:53:38 Pacific Standard Time

ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.45	4.749e2	5.009e2	1.473	0.95	1.05	10.8	YES	NO	bb	bb	0.274

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	OCDD	45.35	2.049e3	2.203e3	1.089	0.93	0.89	34.9	YES	NO	bb	bb	1.901
2	1234679-HPCDD	39.45	4.749e2	5.009e2	1.473	0.95	1.05	10.8	YES	NO	bb	bb	0.274

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.67	5.846e2	5.823e2	1.218	1.00	1.05	11.2	YES	NO	bb	bb	0.331
2	OCDD	45.35	2.049e3	2.203e3	1.089	0.93	0.89	34.9	YES	NO	bb	bb	1.901
3	1234679-HPCDD	39.45	4.749e2	5.009e2	1.473	0.95	1.05	10.8	YES	NO	bb	bb	0.274

**Quantify Totals Report MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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**ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.95	2.024e3					0.5	NO		bb		
2	FUNCTION1 PFK	22.40	1.744e3					0.4	NO		bb		
3	FUNCTION1 PFK	22.21	2.837e3					0.7	NO		bb		
4	FUNCTION1 PFK	22.07	1.393e4					1.2	NO		bb		
5	FUNCTION1 PFK	21.97	1.323e4					1.4	NO		bb		
6	FUNCTION1 PFK	21.63	1.579e3					0.4	NO		bb		
7	FUNCTION1 PFK	21.54	2.296e4					1.4	NO		bb		
8	FUNCTION1 PFK	21.44	3.589e4					1.4	NO		bb		
9	FUNCTION1 PFK	21.21	1.267e4					1.6	NO		bb		
10	FUNCTION1 PFK	25.37	1.908e4					1.6	NO		bd		
11	FUNCTION1 PFK	25.00	2.474e4					1.3	NO		db		
12	FUNCTION1 PFK	24.90	2.833e3					0.4	NO		bd		
13	FUNCTION1 PFK	24.84	5.624e3					0.8	NO		bb		
14	FUNCTION1 PFK	24.45	3.033e3					0.5	NO		bb		
15	FUNCTION1 PFK	24.31	2.231e4					1.4	NO		bb		
16	FUNCTION1 PFK	24.16	4.128e3					0.5	NO		db		
17	FUNCTION1 PFK	24.08	1.475e4					1.4	NO		dd		
18	FUNCTION1 PFK	24.04	5.688e3					0.9	NO		dd		
19	FUNCTION1 PFK	23.98	3.033e4					1.7	NO		bd		
20	FUNCTION1 PFK	23.87	1.761e4					1.4	NO		bb		
21	FUNCTION1 PFK	23.66	1.155e4					1.2	NO		db		
22	FUNCTION1 PFK	23.60	5.181e3					0.7	NO		bd		
23	FUNCTION1 PFK	23.33	1.829e3					0.4	NO		bb		
24	FUNCTION1 PFK	23.19	2.165e4					1.7	NO		bb		
25	FUNCTION1 PFK	23.01	2.549e3					0.4	NO		bb		
26	FUNCTION1 PFK	28.04	2.806e4					1.1	NO		bb		
27	FUNCTION1 PFK	27.83	5.937e3					0.7	NO		db		
28	FUNCTION1 PFK	27.79	4.652e3					0.6	NO		bd		
29	FUNCTION1 PFK	27.62	2.039e4					1.1	NO		bb		
30	FUNCTION1 PFK	27.30	1.582e4					1.0	NO		bb		
31	FUNCTION1 PFK	27.14	1.596e4					1.6	NO		db		
32	FUNCTION1 PFK	27.09	2.638e4					1.7	NO		dd		
33	FUNCTION1 PFK	27.00	1.765e4					1.3	NO		bd		
34	FUNCTION1 PFK	26.89	5.709e3					0.7	NO		bb		
35	FUNCTION1 PFK	26.83	2.875e3					0.5	NO		bb		
36	FUNCTION1 PFK	26.35	6.325e3					0.8	NO		bb		
37	FUNCTION1 PFK	26.12	5.714e3					0.7	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	25.87	1.443e3					0.3	NO		bb		
39	FUNCTION1 PFK	25.59	1.865e4					1.2	NO		bb		
40	FUNCTION1 PFK	25.41	4.921e4					1.9	NO		db		

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

## PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.28	1.541e4					1.8	NO		dd		0.000
2	FUNCTION2 PFK	29.21	1.085e4					1.6	NO		dd		0.000
3	FUNCTION2 PFK	29.17	1.013e4					1.3	NO		dd		0.000
4	FUNCTION2 PFK	29.09	1.644e4					1.8	NO		dd		0.000
5	FUNCTION2 PFK	29.06	5.634e3					1.5	NO		bd		0.000
6	FUNCTION2 PFK	28.97	2.412e3					0.8	NO		bb		0.000
7	FUNCTION2 PFK	28.87	1.598e4					2.9	NO		db		0.000
8	FUNCTION2 PFK	28.83	3.664e4					3.5	YES		dd		0.000
9	FUNCTION2 PFK	28.75	4.734e4					4.7	YES		dd		0.000
10	FUNCTION2 PFK	28.69	6.337e4					5.7	YES		dd		0.000
11	FUNCTION2 PFK	28.53	1.721e5					9.4	YES		dd		0.000
12	FUNCTION2 PFK	28.50	7.353e4					9.5	YES		dd		0.000
13	FUNCTION2 PFK	28.46	7.726e4					9.9	YES		dd		0.000
14	FUNCTION2 PFK	28.40	1.233e5					11.2	YES		dd		0.000
15	FUNCTION2 PFK	28.34	8.486e4					11.1	YES		dd		0.000
16	FUNCTION2 PFK	28.29	1.739e5					12.8	YES		bd		0.000
17	FUNCTION2 PFK	30.30	1.151e4					1.8	NO		dd		0.000
18	FUNCTION2 PFK	30.24	1.588e4					1.6	NO		dd		0.000
19	FUNCTION2 PFK	30.19	1.231e4					1.3	NO		bd		0.000
20	FUNCTION2 PFK	30.12	4.253e3					0.8	NO		db		0.000
21	FUNCTION2 PFK	30.08	5.611e3					1.0	NO		dd		0.000
22	FUNCTION2 PFK	30.04	1.571e4					2.0	NO		dd		0.000
23	FUNCTION2 PFK	29.98	1.408e4					2.1	NO		dd		0.000
24	FUNCTION2 PFK	29.95	1.410e4					1.8	NO		dd		0.000
25	FUNCTION2 PFK	29.88	8.766e3					1.8	NO		dd		0.000
26	FUNCTION2 PFK	29.85	1.718e4					2.1	NO		dd		0.000
27	FUNCTION2 PFK	29.79	1.665e4					1.9	NO		dd		0.000
28	FUNCTION2 PFK	29.70	1.628e4					1.8	NO		bd		0.000
29	FUNCTION2 PFK	29.64	1.201e4					2.3	NO		db		0.000
30	FUNCTION2 PFK	29.55	3.481e4					2.4	NO		dd		0.000
31	FUNCTION2 PFK	29.47	1.499e4					2.6	NO		dd		0.000
32	FUNCTION2 PFK	29.39	3.200e4					2.3	NO		dd		0.000
33	FUNCTION2 PFK	31.43	7.831e3					1.5	NO		dd		0.000
34	FUNCTION2 PFK	31.39	9.373e3					0.9	NO		dd		0.000
35	FUNCTION2 PFK	31.30	3.379e3					0.8	NO		bd		0.000
36	FUNCTION2 PFK	31.20	8.799e3					1.2	NO		db		0.000
37	FUNCTION2 PFK	31.16	4.026e3					0.9	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk****PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	31.01	8.673e3					1.0	NO		db		0.000
39	FUNCTION2 PFK	30.96	1.105e4					1.7	NO		dd		0.000
40	FUNCTION2 PFK	30.92	3.904e3					0.9	NO		bd		0.000
41	FUNCTION2 PFK	30.76	1.188e3					0.6	NO		bb		0.000
42	FUNCTION2 PFK	30.71	2.860e3					0.6	NO		db		0.000
43	FUNCTION2 PFK	30.64	1.294e4					1.5	NO		bd		0.000
44	FUNCTION2 PFK	30.55	3.292e3					0.7	NO		bb		0.000
45	FUNCTION2 PFK	30.51	7.325e2					0.4	NO		bb		0.000
46	FUNCTION2 PFK	30.46	3.094e3					0.7	NO		db		0.000
47	FUNCTION2 PFK	30.38	8.139e3					1.7	NO		dd		0.000
48	FUNCTION2 PFK	30.35	1.258e4					2.0	NO		dd		0.000
49	FUNCTION2 PFK	32.43	4.062e3					1.1	NO		db		0.000
50	FUNCTION2 PFK	32.40	6.856e3					1.2	NO		bd		0.000
51	FUNCTION2 PFK	32.33	6.227e3					1.4	NO		bb		0.000
52	FUNCTION2 PFK	32.27	2.886e3					0.5	NO		db		0.000
53	FUNCTION2 PFK	32.23	2.712e3					0.6	NO		bd		0.000
54	FUNCTION2 PFK	32.19	9.208e2					0.5	NO		bb		0.000
55	FUNCTION2 PFK	32.11	1.053e4					1.8	NO		bb		0.000
56	FUNCTION2 PFK	32.07	1.127e3					0.6	NO		bb		0.000
57	FUNCTION2 PFK	32.02	3.547e3					1.0	NO		bb		0.000
58	FUNCTION2 PFK	31.97	1.574e4					2.4	NO		bb		0.000
59	FUNCTION2 PFK	31.89	8.731e3					1.2	NO		db		0.000
60	FUNCTION2 PFK	31.81	1.256e4					2.1	NO		dd		0.000
61	FUNCTION2 PFK	31.72	1.325e4					1.7	NO		dd		0.000
62	FUNCTION2 PFK	31.66	1.371e4					2.0	NO		dd		0.000
63	FUNCTION2 PFK	31.63	1.607e4					1.7	NO		bd		0.000
64	FUNCTION2 PFK	31.47	6.960e3					0.7	NO		db		0.000

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

## PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.84	1.725e4					2.0	NO		db		0.000
2	FUNCTION3 PFK	34.74	2.241e4					1.6	NO		bd		0.000
3	FUNCTION3 PFK	34.34	3.373e3					0.8	NO		bb		0.000
4	FUNCTION3 PFK	34.10	9.546e2					0.5	NO		bb		0.000
5	FUNCTION3 PFK	33.96	6.367e3					1.0	NO		bb		0.000
6	FUNCTION3 PFK	33.90	9.118e2					0.5	NO		bb		0.000
7	FUNCTION3 PFK	33.74	2.154e3					0.6	NO		bb		0.000
8	FUNCTION3 PFK	33.59	7.488e3					1.4	NO		db		0.000
9	FUNCTION3 PFK	33.55	5.738e3					1.1	NO		dd		0.000
10	FUNCTION3 PFK	33.49	8.583e3					1.4	NO		dd		0.000
11	FUNCTION3 PFK	33.45	1.346e4					2.8	NO		bd		0.000
12	FUNCTION3 PFK	33.39	7.346e3					1.3	NO		db		0.000
13	FUNCTION3 PFK	33.29	4.667e4					2.1	NO		bd		0.000
14	FUNCTION3 PFK	33.16	1.881e3					0.9	NO		bb		0.000
15	FUNCTION3 PFK	33.09	1.325e4					2.3	NO		bb		0.000
16	FUNCTION3 PFK	36.48	2.667e3					0.7	NO		bb		0.000
17	FUNCTION3 PFK	36.40	4.137e3					1.0	NO		db		0.000
18	FUNCTION3 PFK	36.35	6.478e3					1.6	NO		bd		0.000
19	FUNCTION3 PFK	36.27	2.295e4					2.5	NO		db		0.000
20	FUNCTION3 PFK	36.21	1.742e4					2.4	NO		dd		0.000
21	FUNCTION3 PFK	36.15	1.565e4					1.3	NO		bd		0.000
22	FUNCTION3 PFK	36.03	1.197e4					2.0	NO		bb		0.000
23	FUNCTION3 PFK	35.79	1.034e3					0.5	NO		bb		0.000
24	FUNCTION3 PFK	35.74	3.609e3					0.9	NO		bb		0.000
25	FUNCTION3 PFK	35.44	9.208e2					0.5	NO		bb		0.000
26	FUNCTION3 PFK	35.35	1.105e4					1.2	NO		db		0.000
27	FUNCTION3 PFK	35.25	1.037e4					1.3	NO		dd		0.000
28	FUNCTION3 PFK	35.15	2.219e4					2.2	NO		bd		0.000
29	FUNCTION3 PFK	35.11	5.069e3					1.0	NO		db		0.000
30	FUNCTION3 PFK	35.05	5.383e3					1.2	NO		bd		0.000
31	FUNCTION3 PFK	34.91	4.808e3					1.1	NO		bb		0.000
32	FUNCTION3 PFK	37.91	5.316e3					1.1	NO		bb		0.000
33	FUNCTION3 PFK	37.71	1.466e4					1.6	NO		bb		0.000
34	FUNCTION3 PFK	37.61	1.069e4					2.0	NO		bb		0.000
35	FUNCTION3 PFK	37.16	1.716e4					2.3	NO		db		0.000
36	FUNCTION3 PFK	37.09	1.560e4					2.0	NO		bd		0.000
37	FUNCTION3 PFK	37.05	1.477e3					0.6	NO		db		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	36.99	6.002e3					1.0	NO		bd		0.000
39	FUNCTION3 PFK	36.73	2.554e3					0.7	NO		bb		0.000
40	FUNCTION3 PFK	36.61	3.373e3					0.7	NO		bb		0.000
41	FUNCTION3 PFK	36.57	8.504e2					0.4	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.23	4.013e6					19.4	YES		dd		
2	FUNCTION4 PFK	38.38	2.725e6					54.4	YES		dd		
3	FUNCTION4 PFK	38.27	9.356e5					58.9	YES		dd		
4	FUNCTION4 PFK	38.24	1.497e6					58.9	YES		dd		
5	FUNCTION4 PFK	38.07	8.954e5					64.5	YES		bd		
6	FUNCTION4 PFK	43.08	4.251e3					1.0	NO		bb		
7	FUNCTION4 PFK	42.94	6.838e3					1.5	NO		bb		
8	FUNCTION4 PFK	42.57	7.476e3					1.5	NO		bb		
9	FUNCTION4 PFK	42.35	3.505e3					0.8	NO		bb		
10	FUNCTION4 PFK	41.79	7.377e3					1.4	NO		db		
11	FUNCTION4 PFK	41.76	5.972e3					1.5	NO		bd		
12	FUNCTION4 PFK	41.69	6.068e3					1.2	NO		bb		
13	FUNCTION4 PFK	41.32	9.611e2					0.5	NO		bb		
14	FUNCTION4 PFK	40.90	1.124e3					0.5	NO		bb		
15	FUNCTION4 PFK	40.84	3.396e3					0.8	NO		bb		
16	FUNCTION4 PFK	40.53	1.975e3					0.6	NO		bb		
17	FUNCTION4 PFK	40.40	6.738e3					1.4	NO		bb		
18	FUNCTION4 PFK	40.33	4.650e3					0.8	NO		bb		
19	FUNCTION4 PFK	39.85	2.944e3					0.9	NO		bb		
20	FUNCTION4 PFK	39.63	1.485e5					2.8	NO		db		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk****PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.72	1.695e3					0.6	NO		bd		
2	FUNCTION5 PFK	44.61	3.757e3					0.9	NO		db		
3	FUNCTION5 PFK	44.55	5.141e3					1.2	NO		dd		
4	FUNCTION5 PFK	44.49	7.798e3					1.5	NO		bd		
5	FUNCTION5 PFK	44.23	6.497e3					1.1	NO		db		
6	FUNCTION5 PFK	44.17	1.441e3					0.6	NO		bd		
7	FUNCTION5 PFK	44.12	3.600e3					1.1	NO		bb		
8	FUNCTION5 PFK	43.94	1.354e3					0.7	NO		bb		
9	FUNCTION5 PFK	43.82	3.985e3					1.2	NO		bb		
10	FUNCTION5 PFK	43.78	8.525e2					0.4	NO		bb		
11	FUNCTION5 PFK	43.65	4.191e3					1.2	NO		bb		
12	FUNCTION5 PFK	43.53	8.778e3					1.8	NO		db		
13	FUNCTION5 PFK	43.49	4.481e3					1.6	NO		dd		
14	FUNCTION5 PFK	43.45	9.220e3					2.4	NO		dd		
15	FUNCTION5 PFK	43.43	5.613e3					1.9	NO		dd		
16	FUNCTION5 PFK	43.37	2.684e4					3.6	YES		bd		
17	FUNCTION5 PFK	45.58	3.024e3					0.8	NO		db		
18	FUNCTION5 PFK	45.54	2.531e3					1.0	NO		bd		
19	FUNCTION5 PFK	45.49	4.401e3					1.0	NO		db		
20	FUNCTION5 PFK	45.44	2.403e3					0.7	NO		bd		
21	FUNCTION5 PFK	45.37	6.167e3					0.9	NO		db		
22	FUNCTION5 PFK	45.32	1.210e3					0.5	NO		bd		
23	FUNCTION5 PFK	45.27	3.376e3					1.0	NO		bb		
24	FUNCTION5 PFK	45.21	3.734e3					1.3	NO		db		
25	FUNCTION5 PFK	45.18	5.590e3					1.5	NO		dd		
26	FUNCTION5 PFK	45.14	6.659e3					1.2	NO		dd		
27	FUNCTION5 PFK	45.09	6.591e3					1.7	NO		dd		
28	FUNCTION5 PFK	45.05	3.876e3					1.1	NO		dd		
29	FUNCTION5 PFK	45.00	4.262e3					1.1	NO		bd		
30	FUNCTION5 PFK	44.94	3.694e3					1.4	NO		bb		
31	FUNCTION5 PFK	44.81	1.808e3					0.8	NO		bb		
32	FUNCTION5 PFK	44.75	2.556e3					1.0	NO		db		
33	FUNCTION5 PFK	46.43	3.414e3					1.2	NO		db		
34	FUNCTION5 PFK	46.39	9.309e2					0.5	NO		bd		
35	FUNCTION5 PFK	46.25	1.182e4					1.5	NO		bb		
36	FUNCTION5 PFK	46.13	5.699e3					0.9	NO		db		
37	FUNCTION5 PFK	46.04	5.749e3					1.4	NO		dd		

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## PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION5 PFK	46.00	2.911e3					1.0	NO		bd		
39	FUNCTION5 PFK	45.90	2.908e3					1.0	NO		bb		
40	FUNCTION5 PFK	45.74	2.934e3					1.0	NO		db		
41	FUNCTION5 PFK	45.70	4.183e3					1.5	NO		bd		

## ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.42	8.800e1					1.8	NO		bb		0.000
2	FUNCTION1 HXCD...	26.80	1.108e2					2.0	NO		bb		0.000
3	FUNCTION1 HXCD...	22.16	8.382e1					1.7	NO		bb		0.000

## ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	21.68	7.444e1					1.4	NO		bd		0.000
2	FUNCTION1 HPCD...	21.48	7.113e1					1.5	NO		bb		0.000
3	FUNCTION1 HPCD...	27.42	7.594e1					2.0	NO		bb		0.000
4	FUNCTION1 HPCD...	24.82	7.782e1					1.3	NO		bb		0.000
5	FUNCTION1 HPCD...	23.52	8.165e1					1.7	NO		bb		0.000
6	FUNCTION1 HPCD...	21.78	7.156e1					2.5	NO		db		0.000

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.78	8.109e1					3.1	YES		bb		0.000
2	FUNCTION2 HPCD...	30.03	7.582e1					1.5	NO		bb		0.000

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.81	7.747e1					2.1	NO		bb		0.000
2	FUNCTION3 OCDPE	36.73	1.083e2					3.4	YES		db		0.000
3	FUNCTION3 OCDPE	36.67	7.290e1					2.7	NO		bd		0.000
4	FUNCTION3 OCDPE	36.39	9.661e1					2.3	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:53:38 Pacific Standard Time

ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.27	7.991e1					3.6	YES		bb		0.000

**ETHERS6**

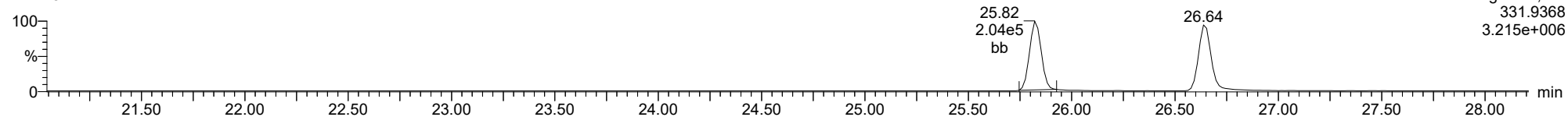
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	46.19	9.278e1					2.7	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

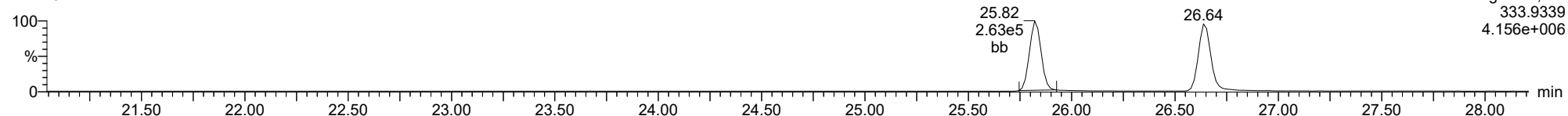
**13C-1234-TCDD**

22122814



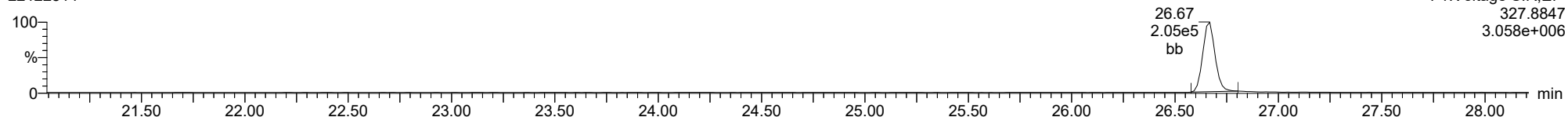
**13C-1234-TCDD**

22122814



**37CL-2378-TCDD**

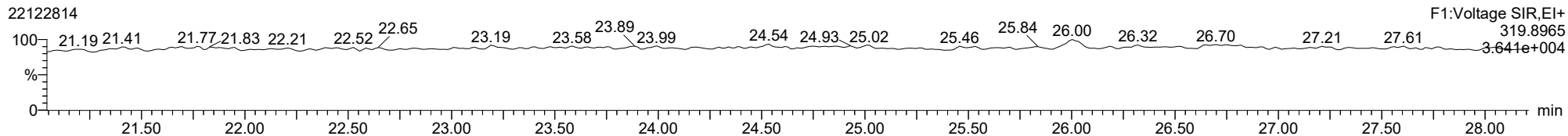
22122814



ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

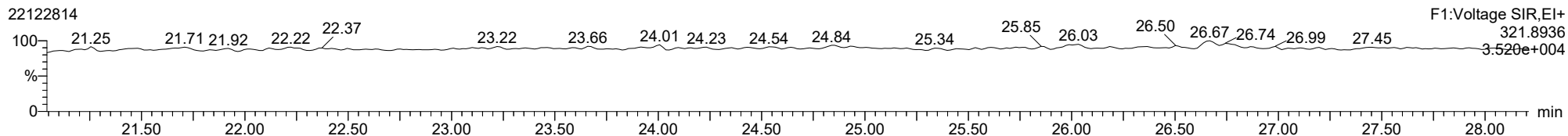
**2378-TCDD**

22122814



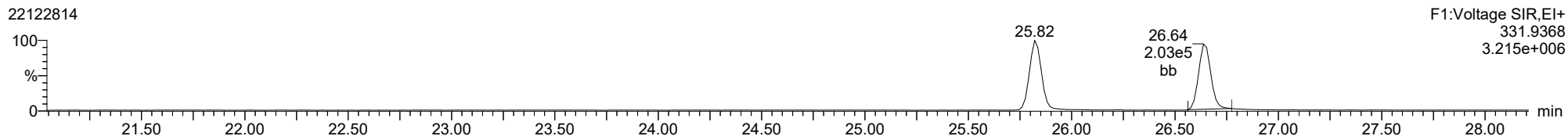
**2378-TCDD**

22122814



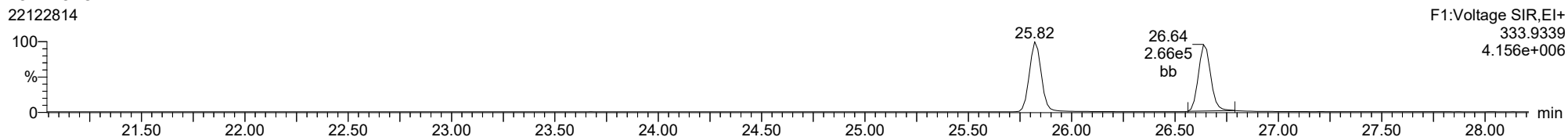
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22122814



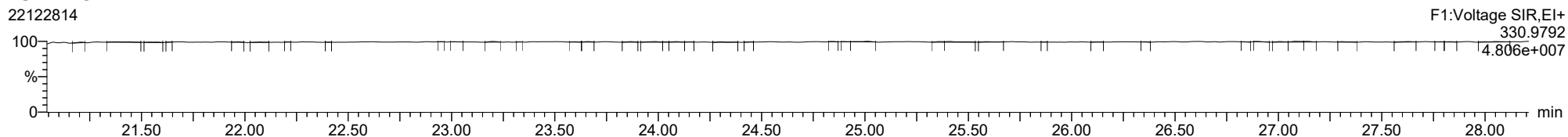
**13C-2378-TCDD**

22122814



**FUNCTION1 PFK**

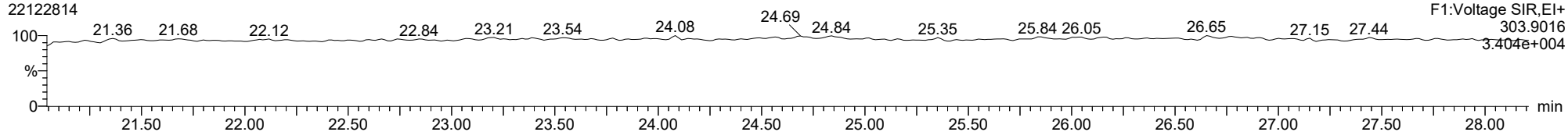
22122814



ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

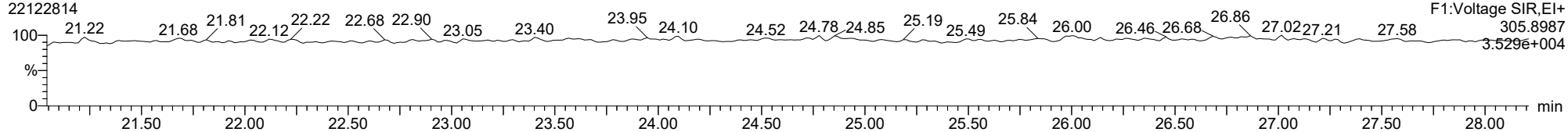
**2378-TCDF**

22122814



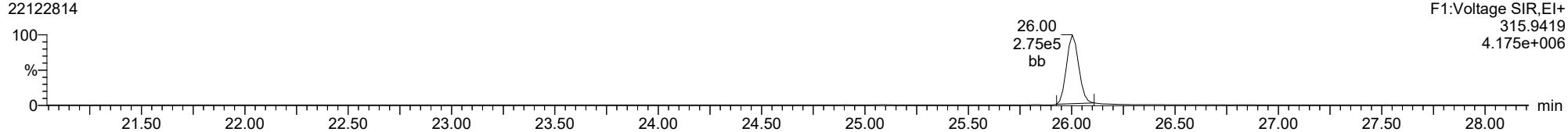
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22122814



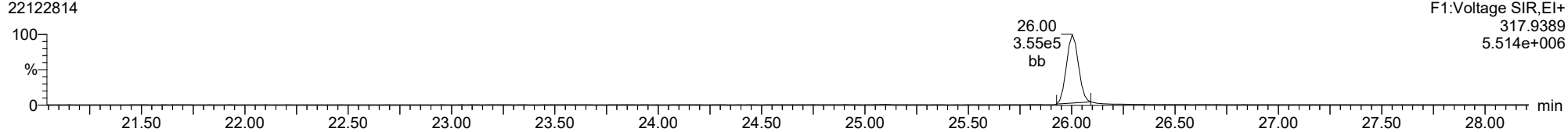
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22122814



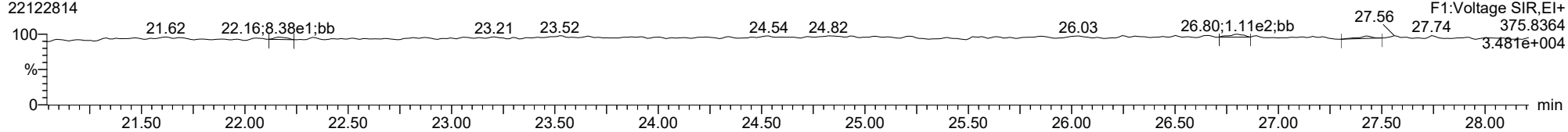
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22122814



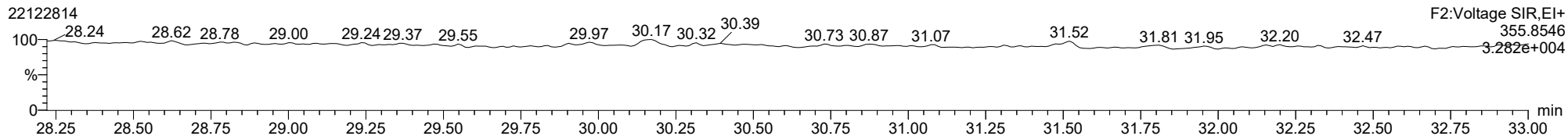
**FUNCTION1 HXCDFE**

22122814

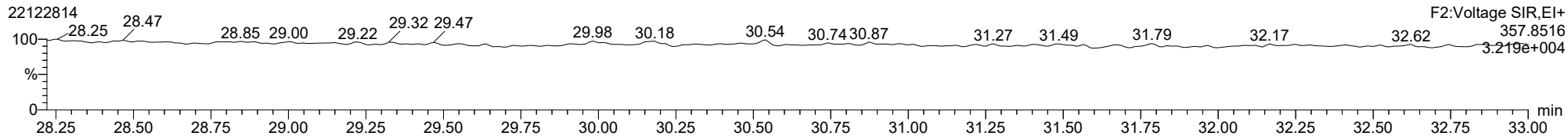


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

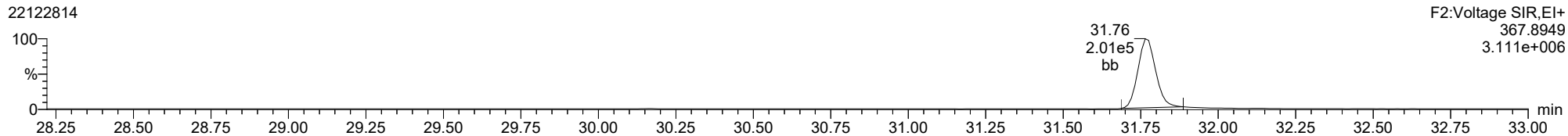
**12378-PeCDD**



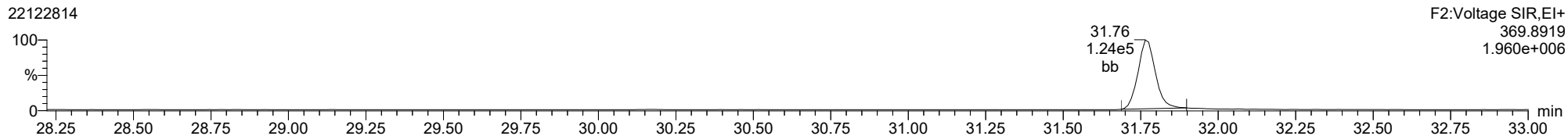
**12378-PeCDD**



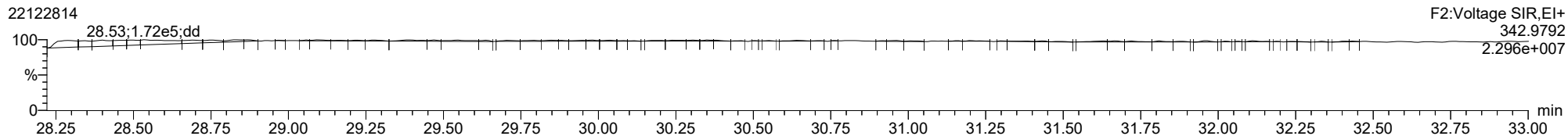
**13C-12378-PeCDD**



**13C-12378-PeCDD**



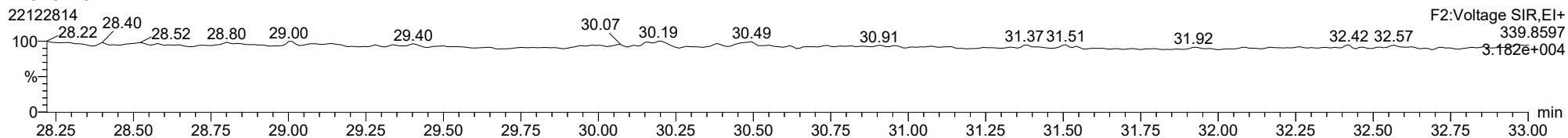
**FUNCTION2 PFK**



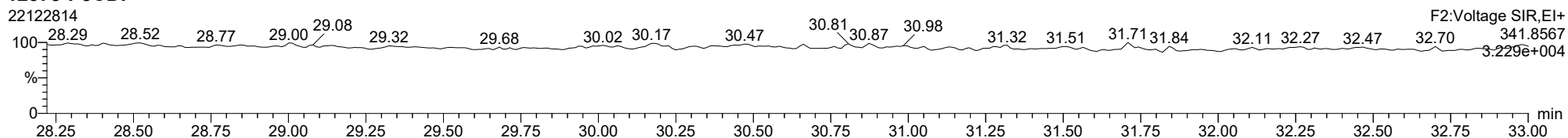


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

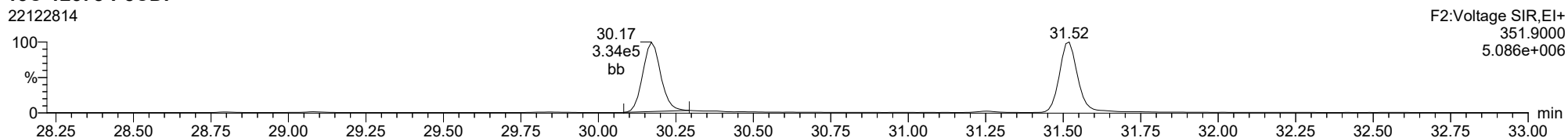
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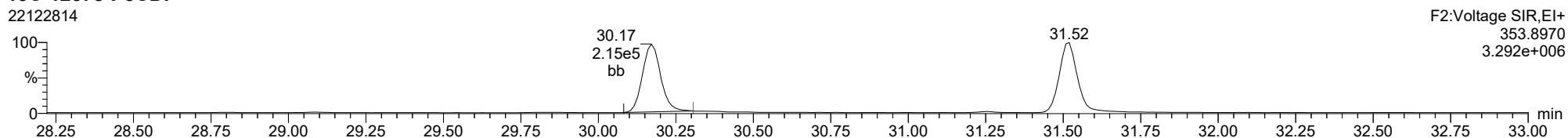
**12378-PeCDF**



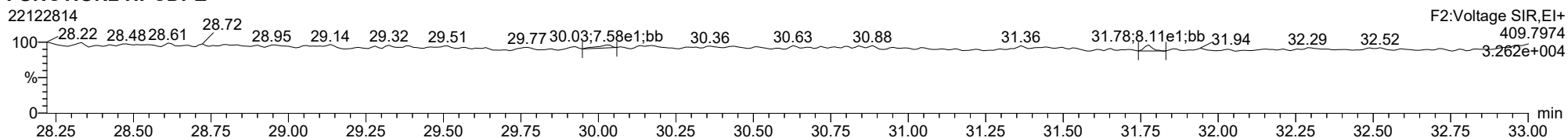
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**13C-12378-PeCDF**

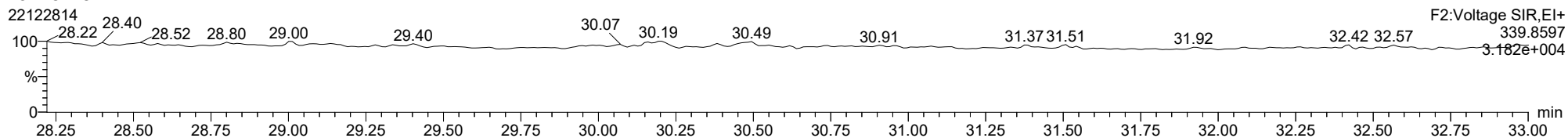


**FUNCTION2 HPCDPE**

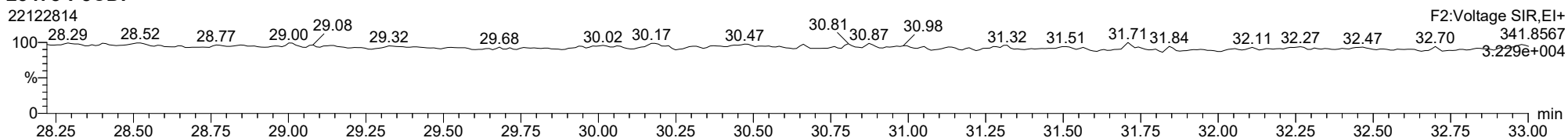


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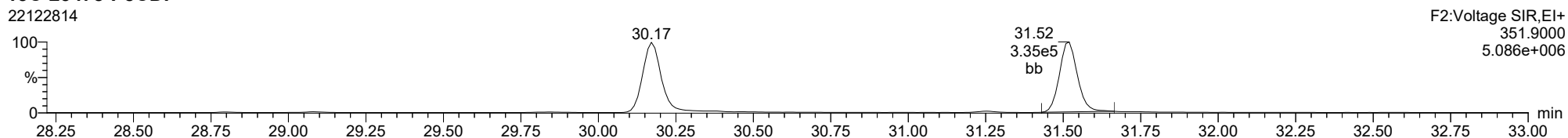
**23478-PeCDF**



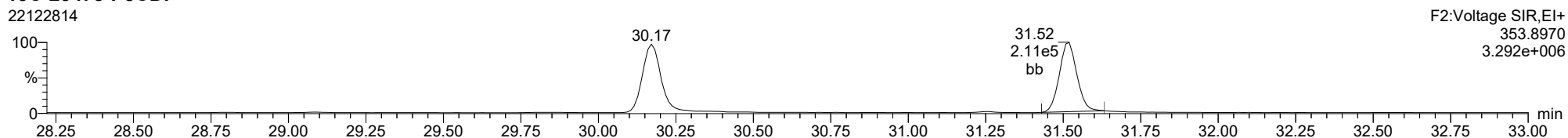
**23478-PeCDF**



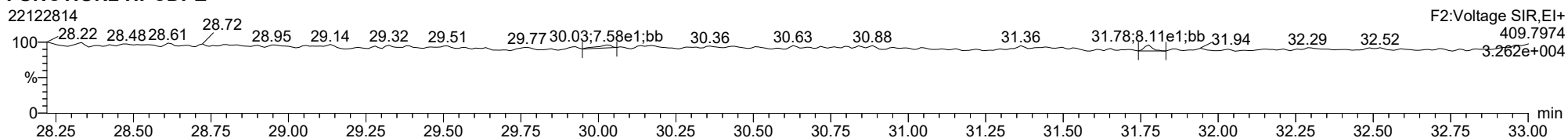
**13C-23478-PeCDF**



**13C-23478-PeCDF**

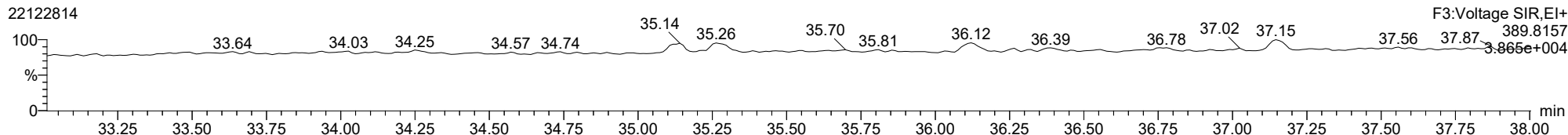


**FUNCTION2 HPCDPE**

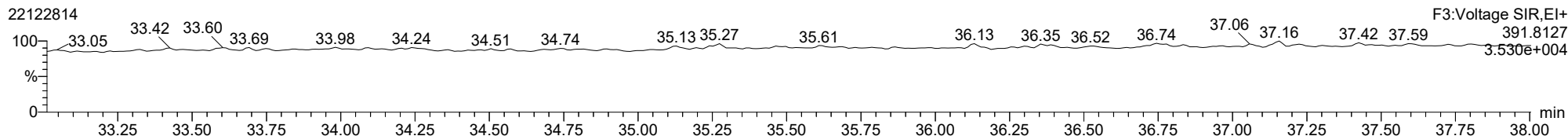


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

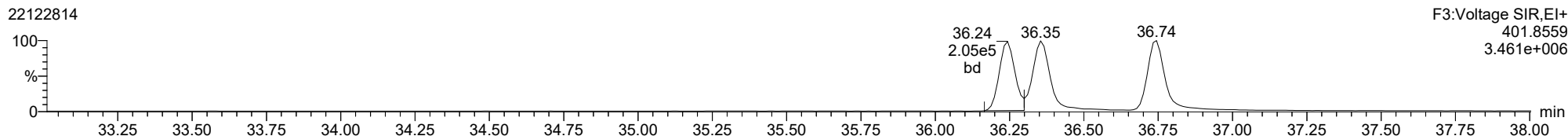
**123478-HxCDD**



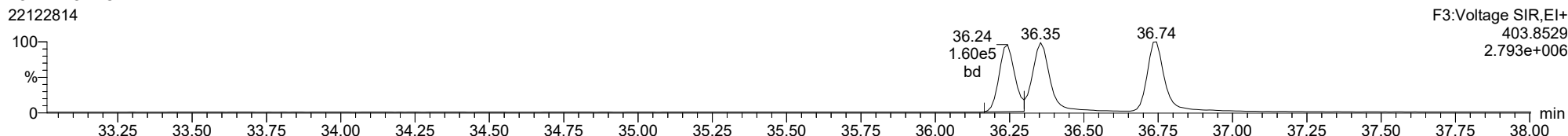
**123478-HxCDD**



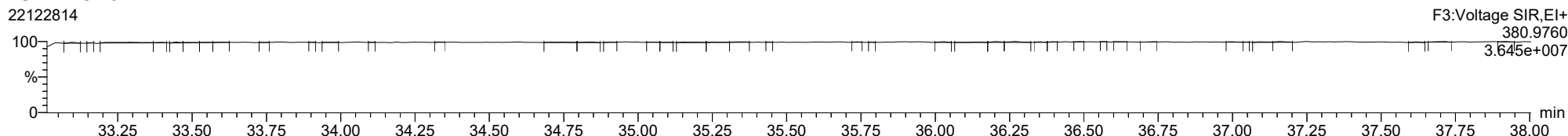
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**13C-123478-HxCDD**



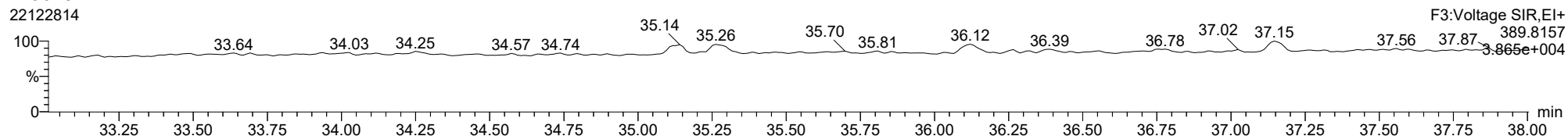
**FUNCTION3 PFK**



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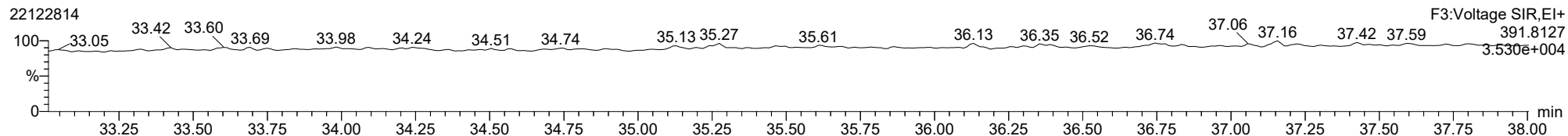
**123678-HxCDD**

22122814



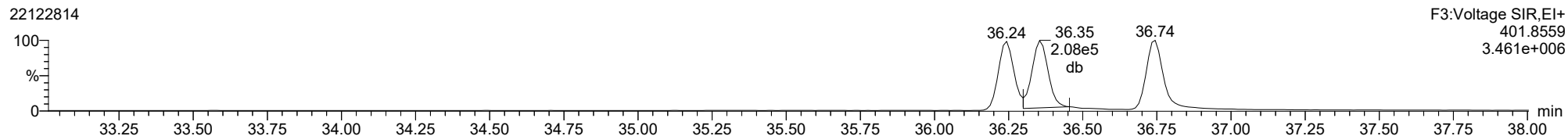
**123678-HxCDD**

22122814



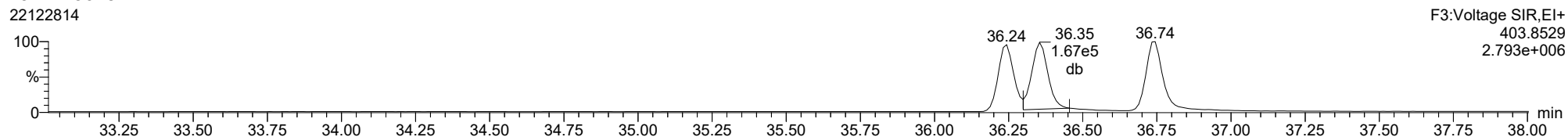
**13C-123678-HxCDD**

22122814



**13C-123678-HxCDD**

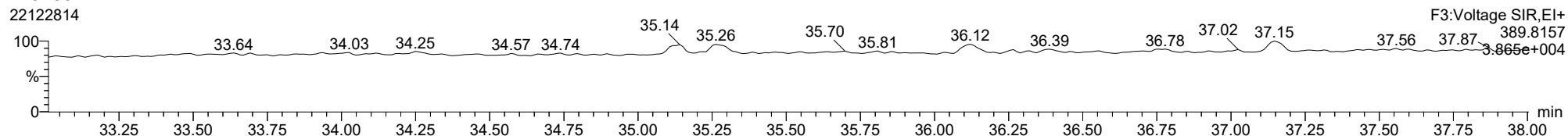
22122814



ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

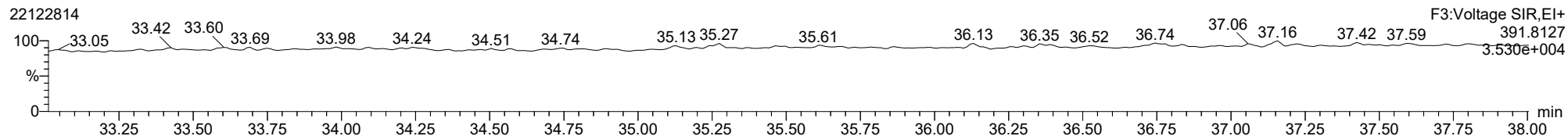
**123789-HxCDD**

22122814



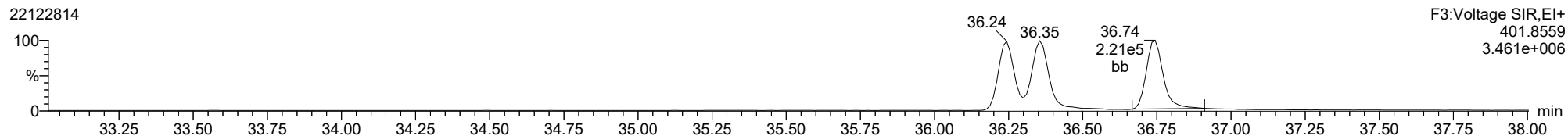
**123789-HxCDD**

22122814



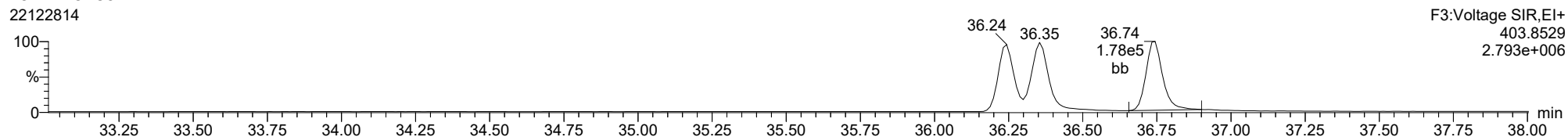
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22122814



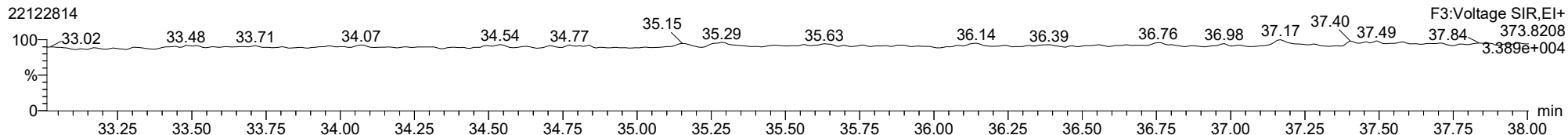
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22122814

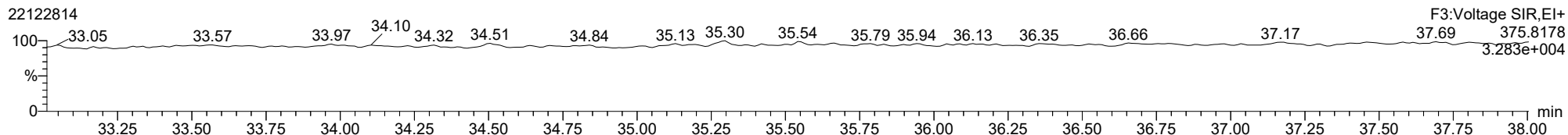


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

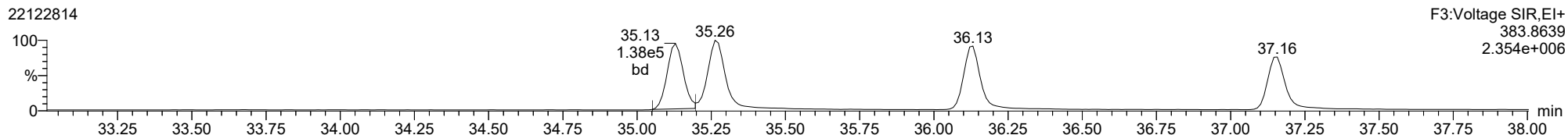
123478-HxCDF



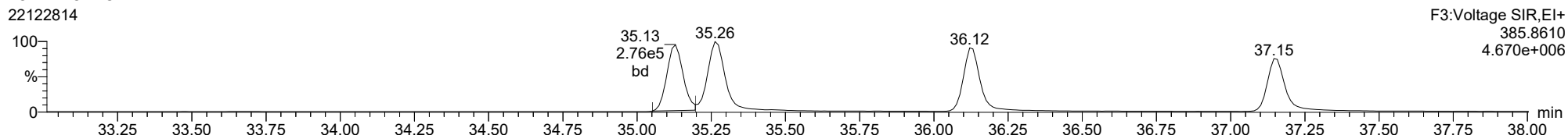
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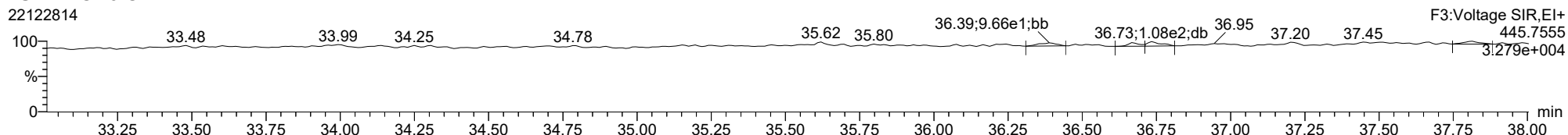
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13C-123478-HxCDF

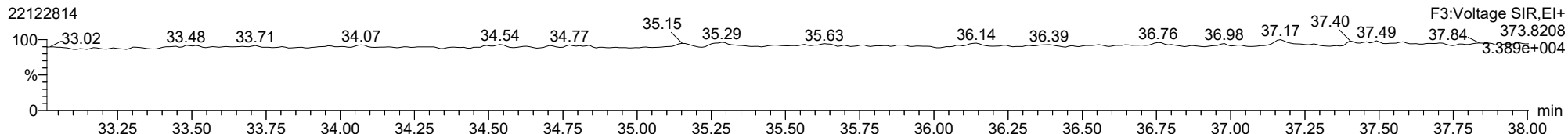


FUNCTION3 OCDPE

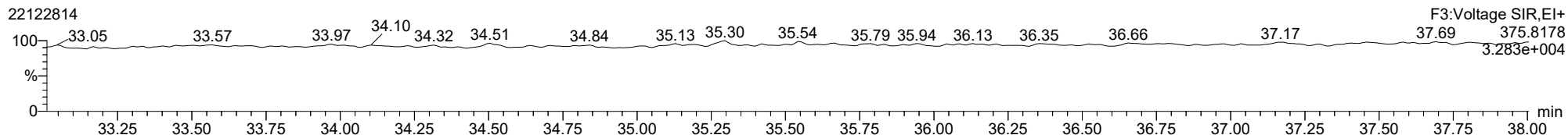


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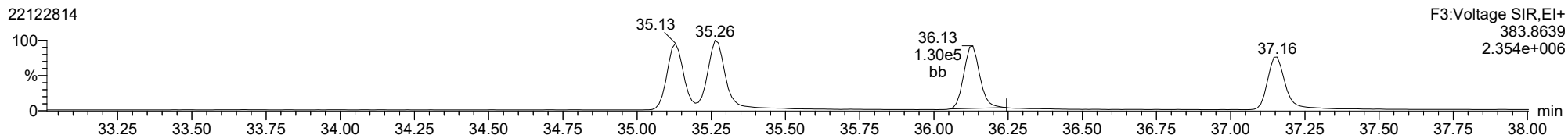
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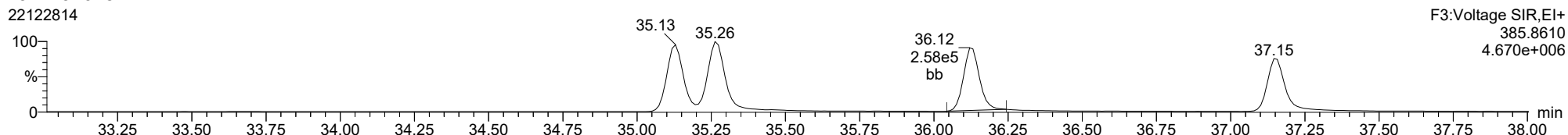
**234678-HxCDF**



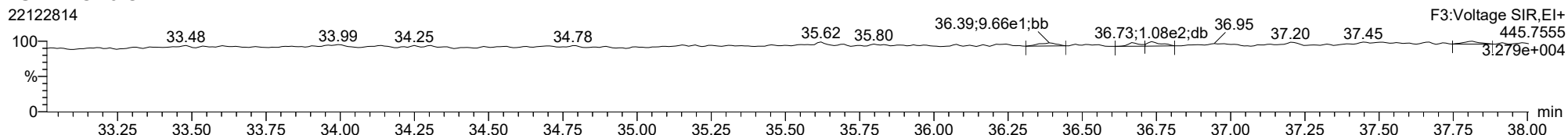
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**13C-234678-HxCDF**

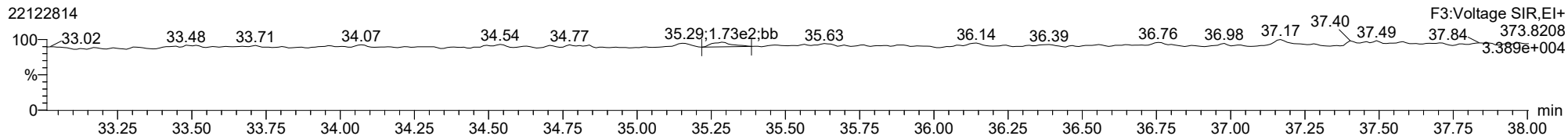


**FUNCTION3 OCDPE**

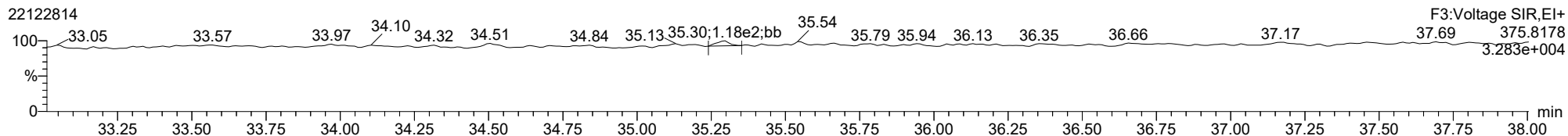


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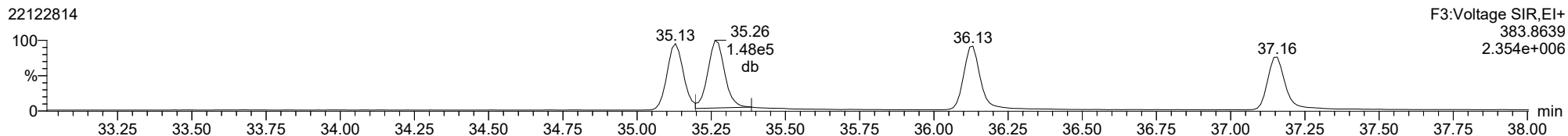
123678-HxCDF



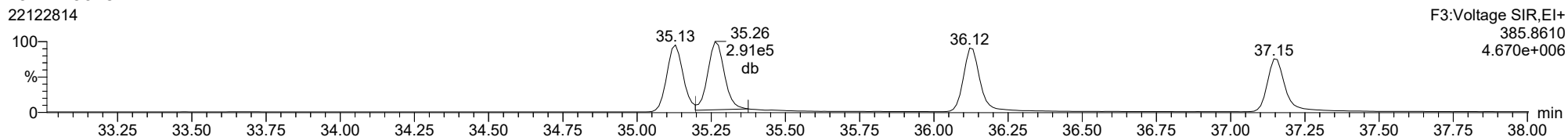
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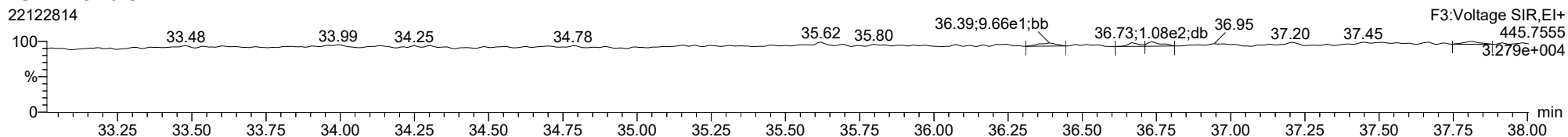
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13C-123678-HxCDF



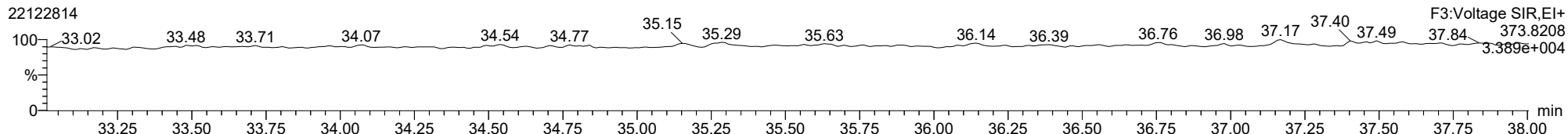
FUNCTION3 OCDPE



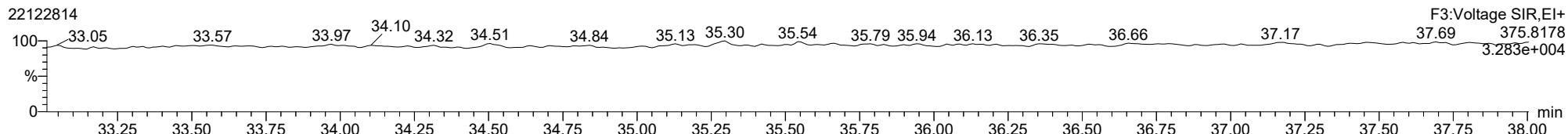


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

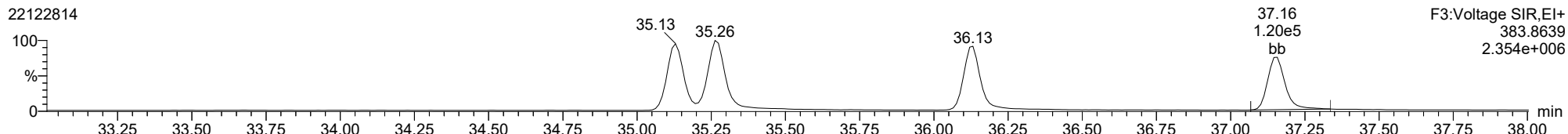
123789-HxCDF



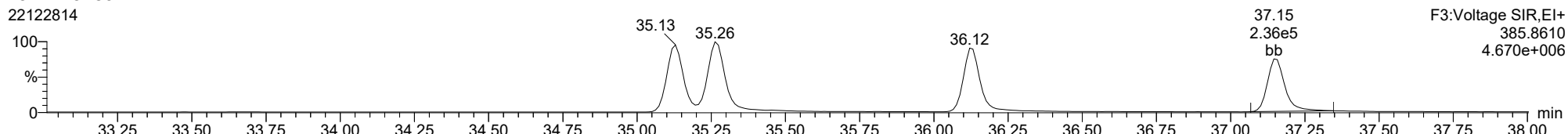
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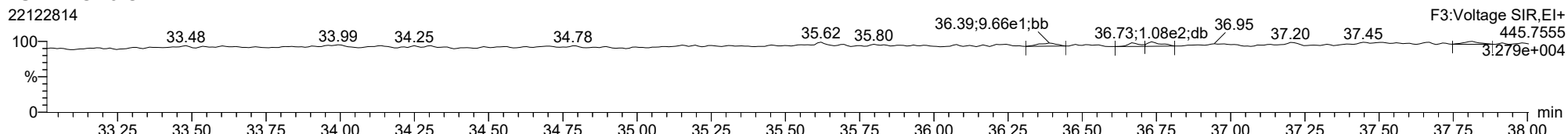
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13C-123789-HxCDF

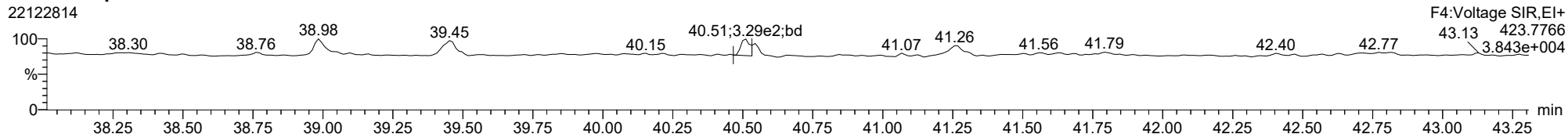


FUNCTION3 OCDPE

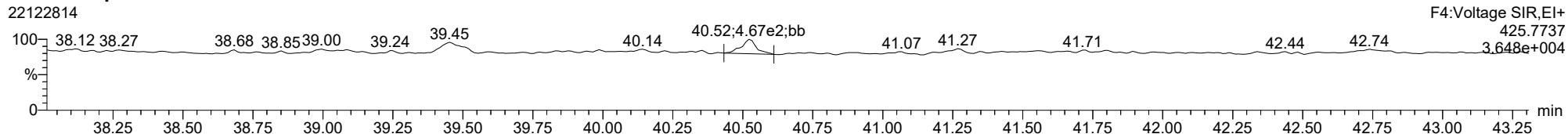


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

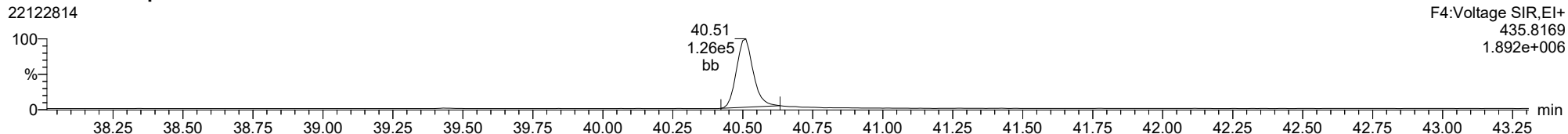
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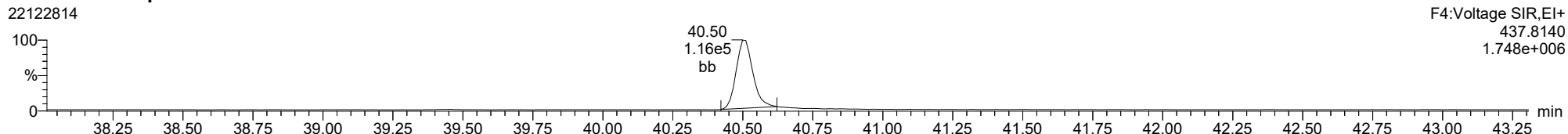
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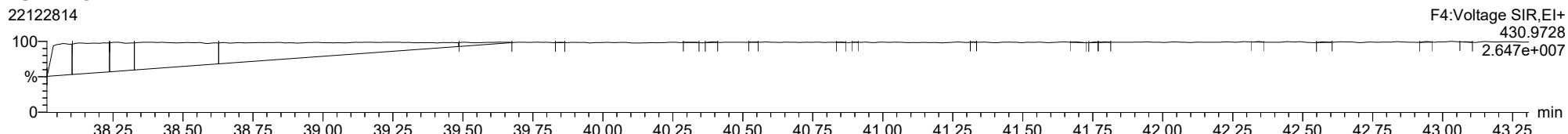
13C-1234678-HpCDD



13C-1234678-HpCDD

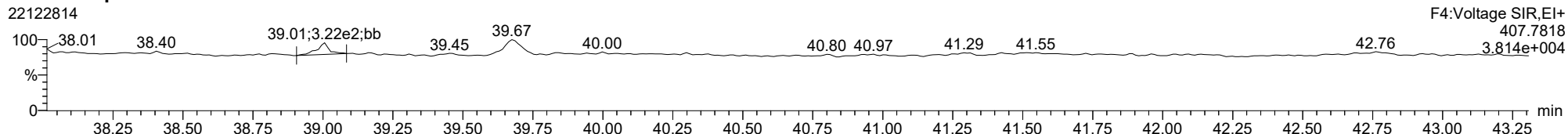


FUNCTION4 PFK

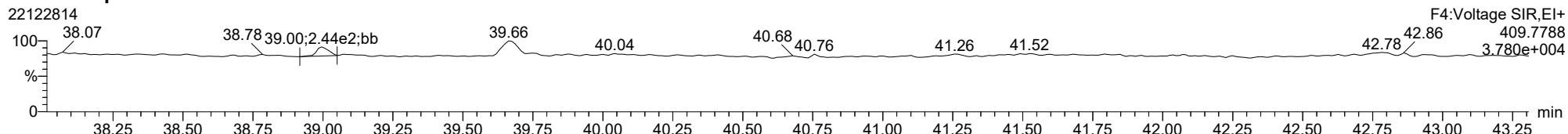


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

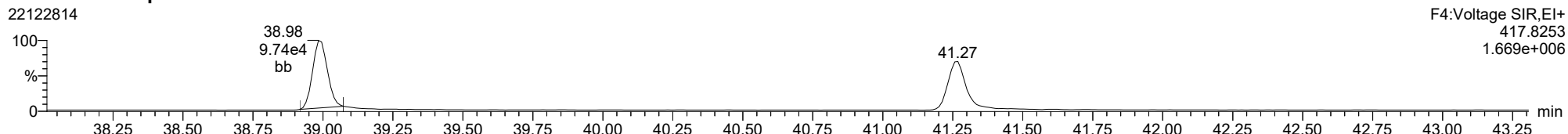
1234678-HpCDF



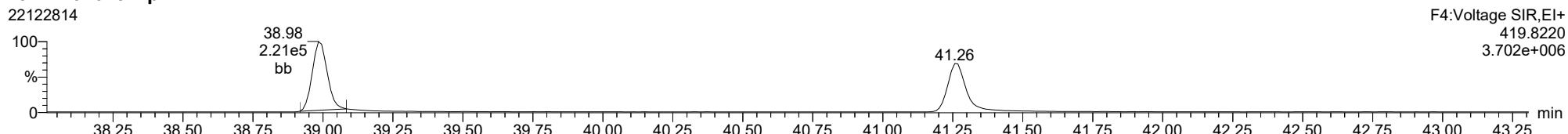
1234678-HpCDF



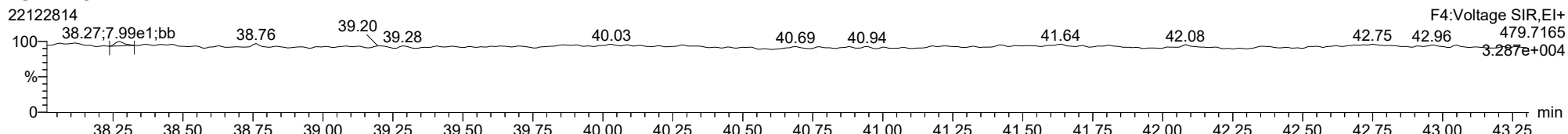
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13C-1234678-HpCDF



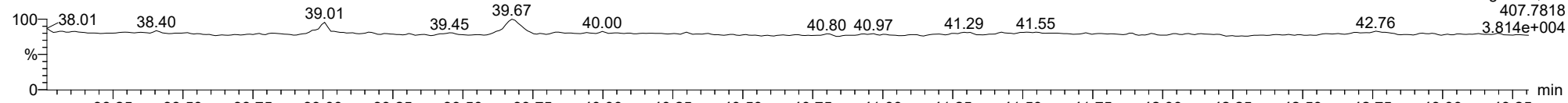
FUNCTION4 NCDPE



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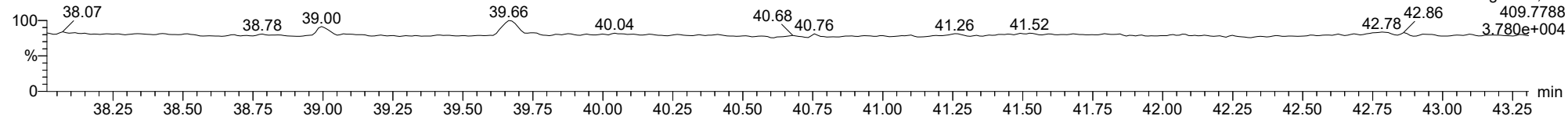
**1234789-HpCDF**

22122814



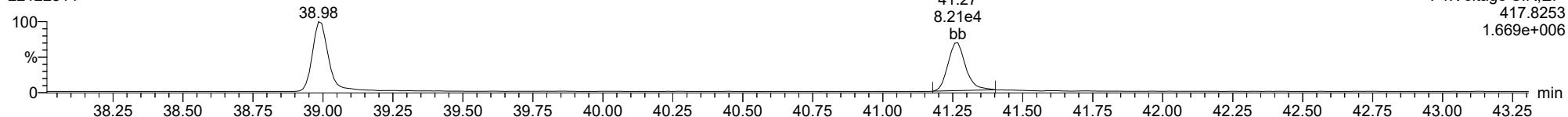
**1234789-HpCDF**

22122814



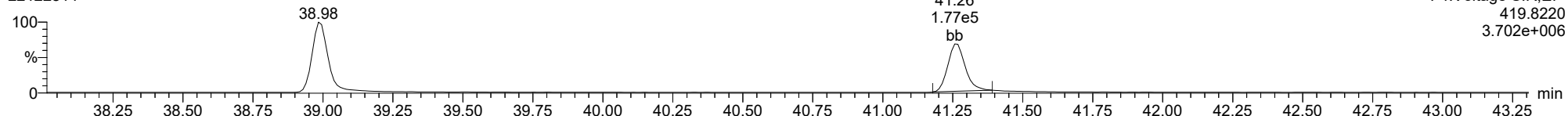
**13C-1234789-HpCDF**

22122814



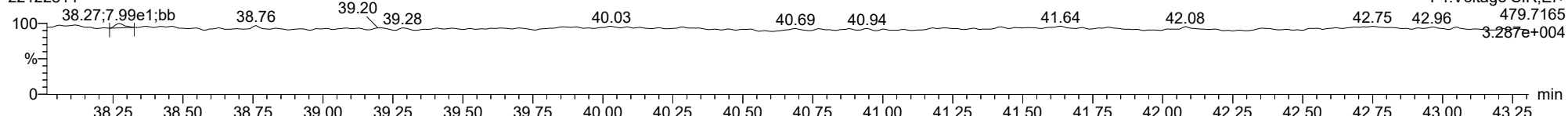
**13C-1234789-HpCDF**

22122814



**FUNCTION4 NCDPE**

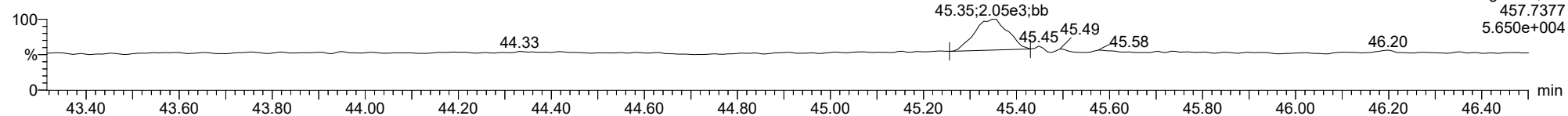
22122814



ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

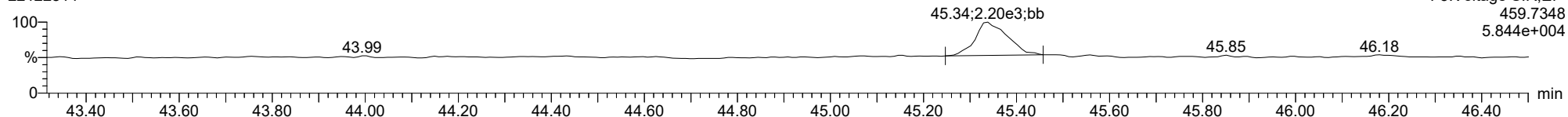
**OCDD**

22122814



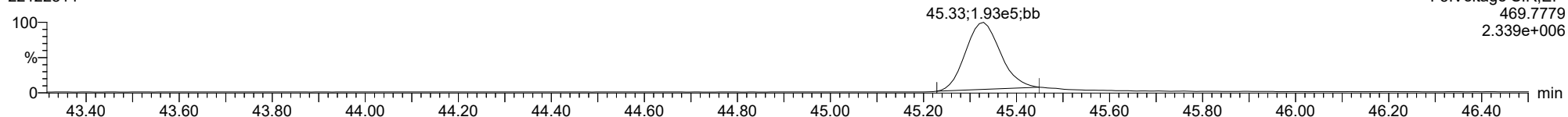
**OCDD**

22122814



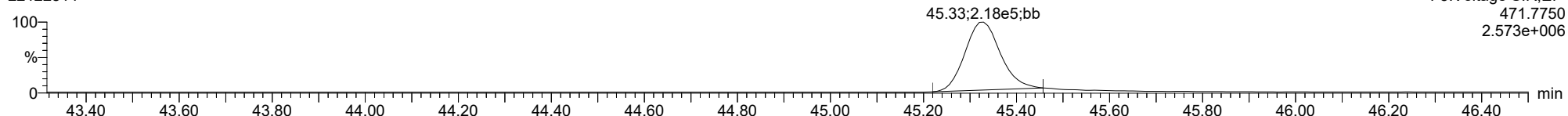
**13C-OCDD**

22122814



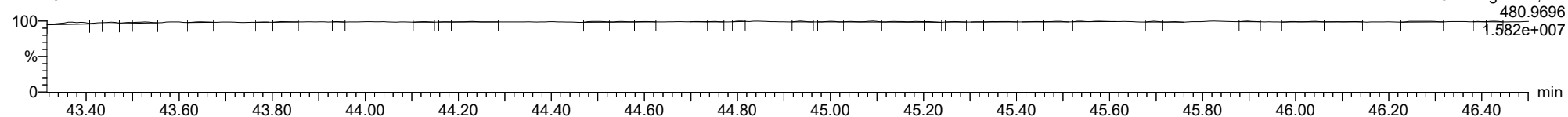
**13C-OCDD**

22122814

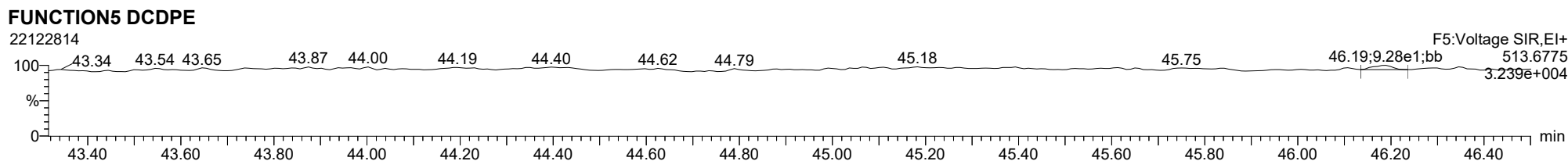
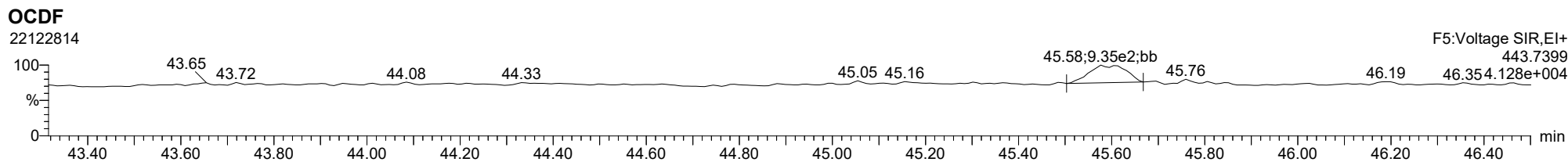
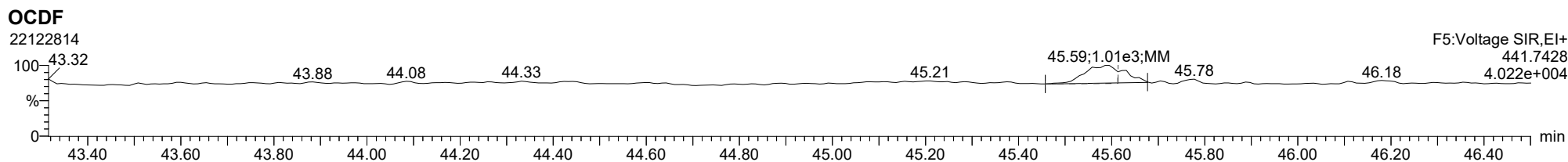


**FUNCTION5 PFK**

22122814

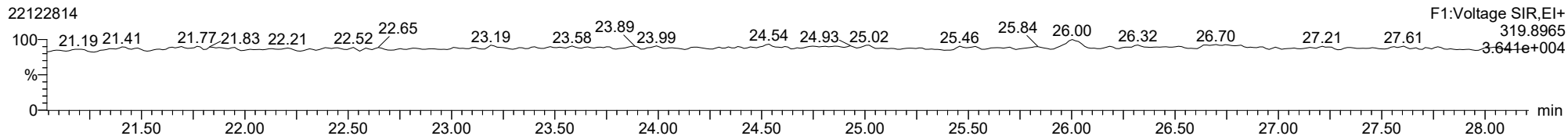


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

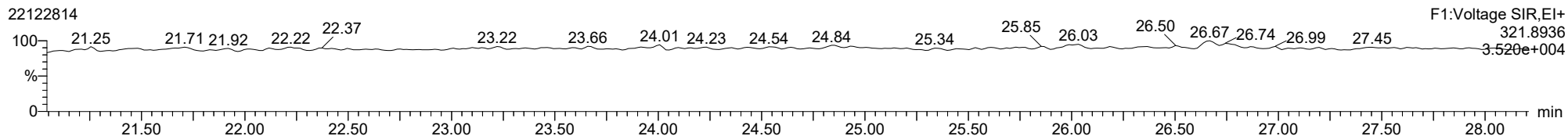


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

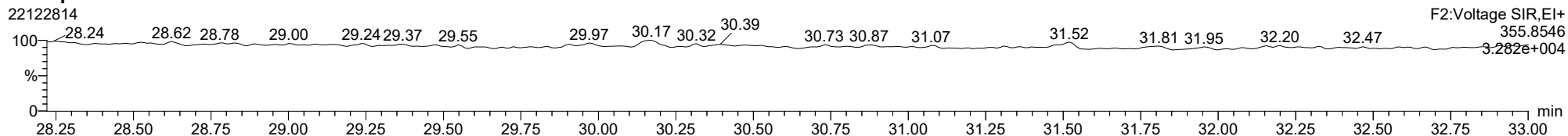
**Total-tetradioxins**



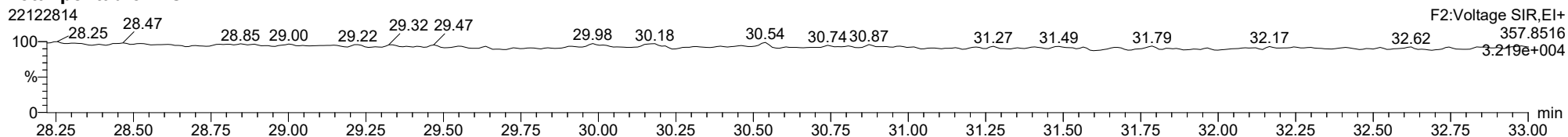
**Total-tetradioxins**



**Total-pentadioxins**

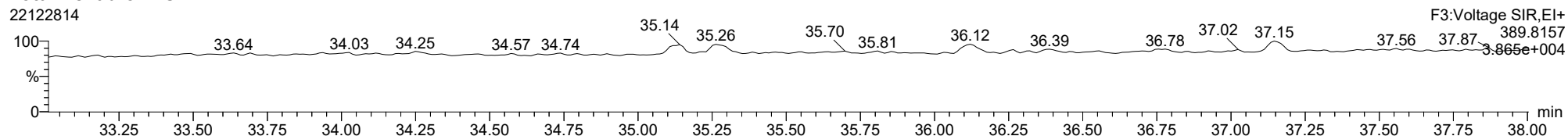


**Total-pentadioxins**

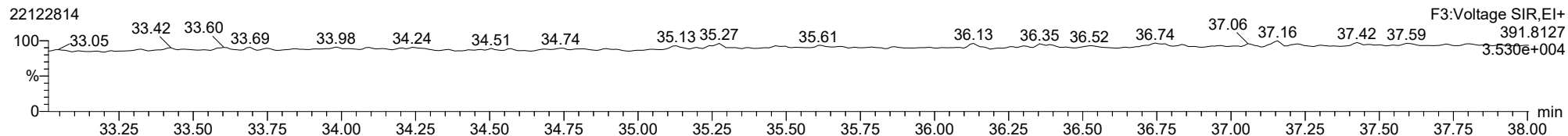


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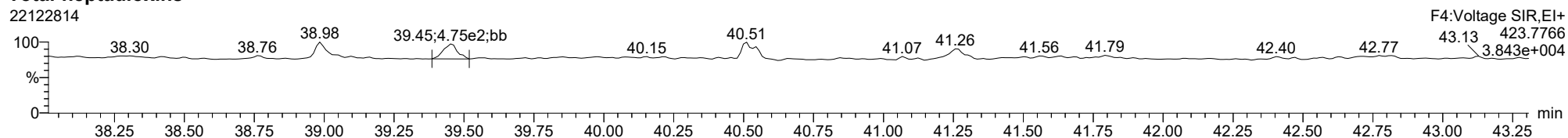
**Total-hexadioxins**



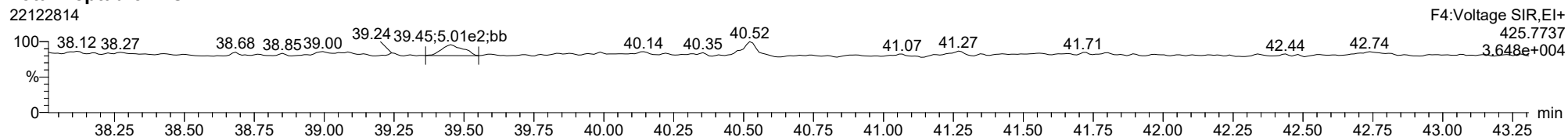
**Total-hexadioxins**



**Total-heptadioxins**



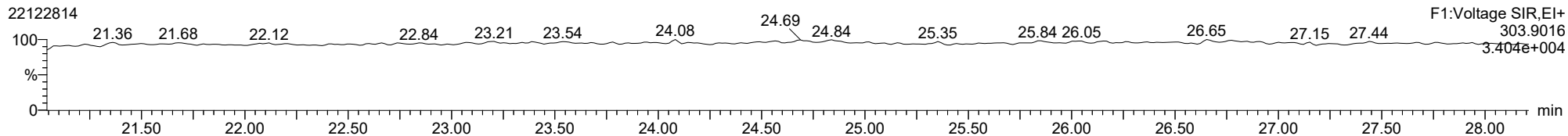
**Total-heptadioxins**



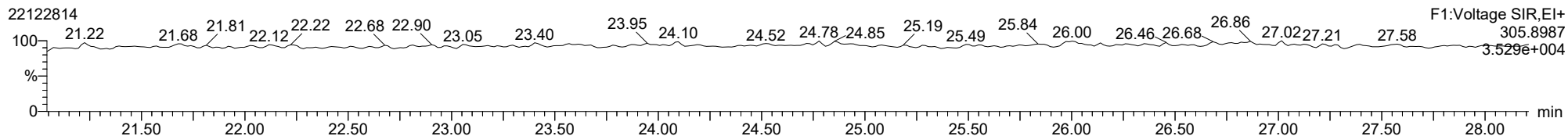


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

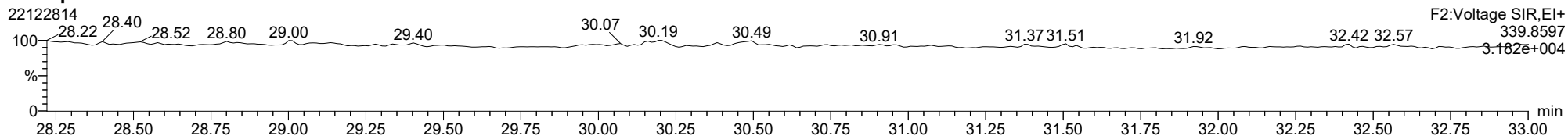
**Total-tetrafurans**



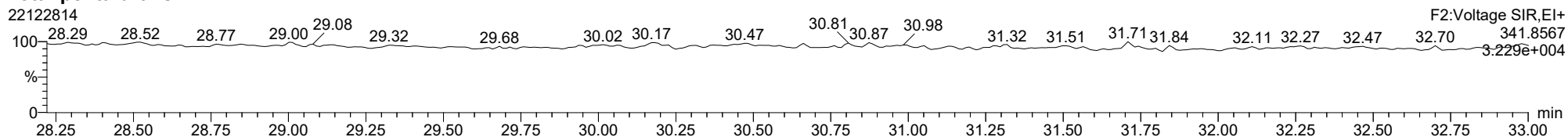
**Total-tetrafurans**



**Total-pentafurans**

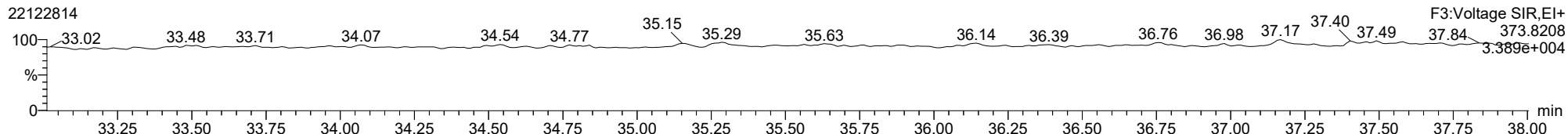


**Total-pentafurans**

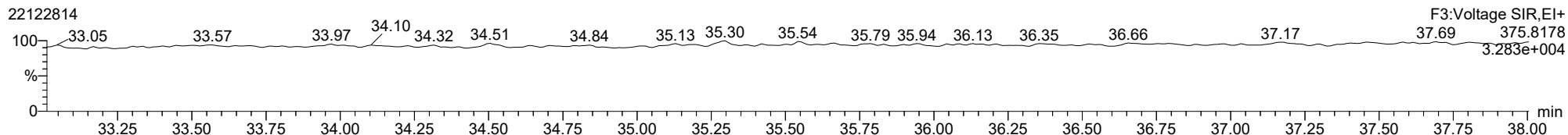


ID: BLK0419-BLK1, Name: 22122814, Date: 28-Dec-2022, Time: 21:35:12, Conditions: AUTOSPEC01, User: pk

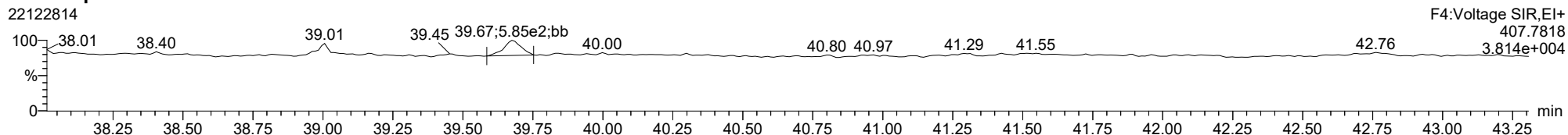
**Total-hexafurans**



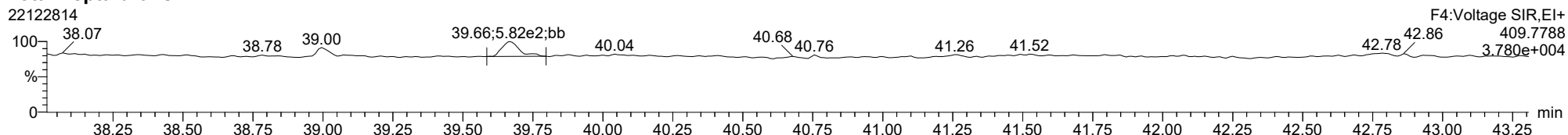
**Total-hexafurans**



**Total-heptafurans**



**Total-heptafurans**





**LCS RECOVERY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Analyzed: 12/28/22 22:24

Batch: BKL0419

Laboratory ID: BKL0419-BS1

Preparation: EPA 1613

Sequence Name: LCS

Initial/Final: 10 g / 20 uL

COMPOUND	SPIKE ADDED (ng/kg wet)	LCS CONCENTRATION (ng/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
2,3,7,8-TCDF	20.0	20.9		105	75 - 158
2,3,7,8-TCDD	20.0	21.8		109	67 - 158
1,2,3,7,8-PeCDF	100	106		106	80 - 134
2,3,4,7,8-PeCDF	100	107		107	68 - 160
1,2,3,7,8-PeCDD	100	123		123	70 - 142
1,2,3,4,7,8-HxCDF	100	115		115	72 - 134
1,2,3,6,7,8-HxCDF	100	116	B	116	84 - 130
2,3,4,6,7,8-HxCDF	100	112		112	70 - 156
1,2,3,7,8,9-HxCDF	100	112		112	78 - 130
1,2,3,4,7,8-HxCDD	100	116		116	70 - 164
1,2,3,6,7,8-HxCDD	100	117		117	76 - 134
1,2,3,7,8,9-HxCDD	100	119		119	64 - 162
1,2,3,4,6,7,8-HpCDF	100	109	B	109	82 - 122
1,2,3,4,7,8,9-HpCDF	100	103		103	78 - 138
1,2,3,4,6,7,8-HpCDD	100	105	B	105	70 - 140
OCDF	200	186	B	93.2	63 - 170
OCDD	200	229	B	114	78 - 144

\* Indicates values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:53:52 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
 Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.033	1.001	1.194e4	1.620e4	0.985	0.737	0.770	742	1071	1.73e5	2.41e5	232.7	224.7	NO	bd	bb	10.472
12378-PeCDF	30.193	1.000	6.626e4	4.083e4	0.906	1.623	1.550	1281	1511	9.30e5	5.76e5	725.8	381.5	NO	bb	bd	52.965
23478-PeCDF	31.541	1.000	6.765e4	4.355e4	1.008	1.554	1.550	1281	1511	9.47e5	6.23e5	739.4	412.1	NO	bd	bb	53.363
123478-HxCDF	35.151	1.000	5.369e4	4.398e4	1.045	1.221	1.240	1412	1334	8.30e5	6.81e5	587.3	510.7	NO	bd	bd	57.274
234678-HxCDF	36.154	1.001	5.134e4	4.086e4	1.101	1.257	1.240	1412	1334	7.68e5	6.42e5	543.6	481.1	NO	bb	bb	55.876
123678-HxCDF	35.296	1.001	5.772e4	4.760e4	1.019	1.213	1.240	1412	1334	8.42e5	6.61e5	595.8	495.8	NO	dd	db	58.218
123789-HxCDF	37.179	1.001	4.279e4	3.359e4	0.992	1.274	1.240	1412	1334	6.17e5	4.97e5	437.0	372.3	NO	bd	bb	56.090
1234678-HpCDF	39.017	1.001	4.152e4	4.261e4	1.243	0.974	1.050	1705	888	6.17e5	6.03e5	361.7	679.5	NO	bd	bb	54.682
1234789-HpCDF	41.290	1.001	3.096e4	3.146e4	1.192	0.984	1.050	1705	888	3.89e5	3.94e5	228.1	444.0	NO	bd	bd	51.524
OCDF	45.603	1.006	4.268e4	4.782e4	1.303	0.893	0.890	1084	1433	4.49e5	5.12e5	414.8	356.9	NO	bb	bd	93.152
2378-TCDD	26.668	1.001	1.173e4	1.399e4	1.168	0.839	0.770	1092	805	1.76e5	2.04e5	161.4	253.4	NO	bb	bb	10.907
12378-PeCDD	31.797	1.001	5.472e4	3.357e4	1.152	1.630	1.550	852	751	7.71e5	5.11e5	905.1	679.8	NO	bd	bb	61.454
123478-HxCDD	36.265	1.000	4.175e4	3.441e4	0.934	1.213	1.240	786	1302	6.86e5	5.65e5	872.7	433.7	NO	bd	bd	58.040
123678-HxCDD	36.376	1.000	4.500e4	3.699e4	0.950	1.216	1.240	786	1302	7.09e5	5.81e5	902.2	446.2	NO	db	db	58.495
123789-HxCDD	36.766	1.011	4.122e4	3.387e4	0.873	1.217	1.240	786	1302	6.68e5	5.27e5	850.2	405.1	NO	bb	bb	59.718
1234678-HpCDD	40.532	1.001	3.159e4	3.197e4	1.268	0.988	1.050	971	1007	4.42e5	4.33e5	455.3	430.1	NO	bd	bd	52.406
OCDD	45.356	1.000	4.250e4	5.030e4	1.089	0.845	0.890	1684	1185	4.51e5	5.43e5	268.0	458.5	NO	bd	bd	114.255
13C-2378-TCDF	26.018	1.007	1.180e5	1.549e5	1.751	0.762	0.770	1555	1407	1.75e6	2.29e6	1124.9	1626.9	NO	bb	bb	37.516
13C-12378-PeCDF	30.182	1.168	1.355e5	8.774e4	1.442	1.545	1.550	2058	1682	2.02e6	1.29e6	983.1	768.9	NO	bb	bb	37.283
13C-23478-PeCDF	31.530	1.220	1.267e5	8.014e4	1.366	1.581	1.550	2058	1682	1.83e6	1.17e6	888.6	694.5	NO	bb	bb	36.460
13C-123478-HxCDF	35.140	0.956	5.487e4	1.083e5	1.095	0.507	0.510	1277	2544	8.75e5	1.72e6	685.5	674.9	NO	bd	bd	47.989
13C-123678-HxCDF	35.273	0.960	6.330e4	1.141e5	1.168	0.554	0.510	1277	2544	8.98e5	1.73e6	703.2	681.3	NO	dd	db	48.944
13C-234678-HxCDF	36.131	0.983	5.059e4	9.929e4	1.023	0.510	0.510	1277	2544	7.80e5	1.56e6	611.2	611.3	NO	bb	bb	47.191
13C-123789-HxCDF	37.156	1.011	4.679e4	9.044e4	0.879	0.517	0.510	1277	2544	6.47e5	1.31e6	506.8	514.3	NO	bb	bb	50.296
13C-1234678-HpCDF	38.995	1.061	3.805e4	8.571e4	0.925	0.444	0.440	1011	1638	5.94e5	1.37e6	587.2	837.0	NO	bb	bb	43.070
13C-1234789-HpCDF	41.268	1.123	2.948e4	7.214e4	0.715	0.409	0.440	1011	1638	3.89e5	9.25e5	384.2	564.7	NO	bb	bd	45.782
13C-1234-TCDD	25.836	0.000	1.809e5	2.344e5	1.000	0.772	0.770	1743	1224	2.81e6	3.61e6	1610.4	2950.9	NO	bb	bb	100.000
13C-2378-TCDD	26.653	1.032	8.803e4	1.139e5	1.081	0.773	0.770	1743	1224	1.29e6	1.71e6	738.5	1394.2	NO	bb	bb	44.954
13C-12378-PeCDD	31.775	1.230	7.716e4	4.757e4	0.776	1.622	1.550	899	1004	1.16e6	6.83e5	1291.3	680.7	NO	bb	bb	38.680
13C-123478-HxCDD	36.254	0.986	7.877e4	6.174e4	0.975	1.276	1.240	1830	1268	1.27e6	9.89e5	693.0	779.7	NO	bd	bd	46.419
13C-123678-HxCDD	36.365	0.989	8.306e4	6.443e4	1.067	1.289	1.240	1830	1268	1.28e6	1.01e6	701.4	799.8	NO	db	db	44.540
13C-1234678-HpCDD	40.510	1.102	5.097e4	4.467e4	0.582	1.141	1.050	1163	1030	6.89e5	6.49e5	592.2	630.4	NO	bd	bb	52.962
13C-OCDD	45.338	1.234	7.155e4	7.759e4	0.509	0.922	0.890	1445	1389	8.01e5	8.79e5	554.3	633.1	NO	bb	bb	94.450
13C-123789-HxCDD	36.755	0.000	1.735e5	1.370e5	1.000	1.267	1.240	1830	1268	2.64e6	2.07e6	1442.7	1633.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.668	1.032	9.187e4		1.120			1508		1.31e6		871.0			bb		19.747

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:53:52 Pacific Standard Time

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.300		0.770	742	1071								
1289-TCDF					0.931		0.770	742	1071								
13468-PECDF					1.308		1.550	692	875								
12389-PECDF					0.860		1.550	1281	1511								
123468-HXCDF					1.156		1.240	1412	1334								
1368-TCDD					1.151		0.770	1092	805								
1289-TCDD					0.950		0.770	1092	805								
12479-PECDD					2.164		1.550	852	751								
12389-PECDD	32.109	1.011	2.970e2	1.264e2	1.371	2.349	1.550	852	751	5.22e3	2.66e3	6.1	3.5	YES	dd	bb	0.248
124679-HXCDD					1.153		1.240	786	1302								
1234679-HPCDD	39.463	0.974	6.869e2	7.866e2	1.473	0.873	1.050	971	1007	9.35e3	1.07e4	9.6	10.6	YES	bb	bb	1.046
Total-tetrafurans			1.206e4		1.072			742		1.75e5							10.569
Total-penta1			0.000e0					692		0.00e0							
Total-pentafurans			1.339e5		0.924			1281		1.88e6							106.329
Total-hexafurans			2.055e5		1.063			1412		3.06e6							227.458
Total-heptafurans			7.248e4		1.218			1705		1.01e6							106.207
Total-Furans			4.667e5		1.090			742		6.56e6							543.714
Total-tetradoxins			1.173e4		1.090			1092		1.76e5							10.907
Total-pentadoxins			5.485e4		1.562			852		7.74e5							61.571
Total-hexadoxins			1.280e5		0.978			786		2.06e6							176.253
Total-heptadoxins			3.159e4		1.371			971		4.42e5							52.406
Total-Dioxins			2.687e5		1.207			1092		3.91e6							415.392
Total-TEQ			7.353e5					1092		1.05e7							959.106
FUNCTION1 PFK			8.607e5					254259		1.61e7							
FUNCTION2 PFK			1.011e5					184365		1.96e5							0.000
FUNCTION3 PFK			4.949e5					195355		1.21e7							0.000
FUNCTION4 PFK			1.445e5					159365		3.24e6							
FUNCTION5 PFK			8.101e4					130695		2.98e6							
FUNCTION1 HXCD...			3.223e2					613		4.48e3							0.000
FUNCTION1 HPCD...			6.774e2					573		1.02e4							0.000
FUNCTION2 HPCD...			6.236e2					933		1.16e4							0.000
FUNCTION3 OCDPE			3.440e2					734		6.41e3							0.000
FUNCTION4 NCDPE			7.632e1					573		1.13e3							0.000
FUNCTION5 DCDPE			0.000e0					525		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:53:52 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.03	1.194e4	1.620e4	0.985	0.74	0.77	232.7	YES	NO	bd	bb	10.472
2	Total-tetrafurans	24.79	1.199e2	1.639e2	1.072	0.73	0.77	3.1	YES	NO	bd	bd	0.097

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.54	6.765e4	4.355e4	1.008	1.55	1.55	739.4	YES	NO	bd	bb	53.363
2	12378-PeCDF	30.19	6.626e4	4.083e4	0.906	1.62	1.55	725.8	YES	NO	bb	bd	52.965

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.18	4.279e4	3.359e4	0.992	1.27	1.24	437.0	YES	NO	bd	bb	56.090
2	234678-HxCDF	36.15	5.134e4	4.086e4	1.101	1.26	1.24	543.6	YES	NO	bb	bb	55.876
3	123678-HxCDF	35.30	5.772e4	4.760e4	1.019	1.21	1.24	595.8	YES	NO	dd	db	58.218
4	123478-HxCDF	35.15	5.369e4	4.398e4	1.045	1.22	1.24	587.3	YES	NO	bd	bd	57.274

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	39.02	4.152e4	4.261e4	1.243	0.97	1.05	361.7	YES	NO	bd	bb	54.682
2	1234789-HpCDF	41.29	3.096e4	3.146e4	1.192	0.98	1.05	228.1	YES	NO	bd	bd	51.524

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:53:52 Pacific Standard Time

**ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.03	1.194e4	1.620e4	0.985	0.74	0.77	232.7	YES	NO	bd	bb	10.472
2	Total-tetrafurans	24.79	1.199e2	1.639e2	1.072	0.73	0.77	3.1	YES	NO	bd	bd	0.097
3	23478-PeCDF	31.54	6.765e4	4.355e4	1.008	1.55	1.55	739.4	YES	NO	bd	bb	53.363
4	12378-PeCDF	30.19	6.626e4	4.083e4	0.906	1.62	1.55	725.8	YES	NO	bb	bd	52.965
5	123789-HxCDF	37.18	4.279e4	3.359e4	0.992	1.27	1.24	437.0	YES	NO	bd	bb	56.090
6	234678-HxCDF	36.15	5.134e4	4.086e4	1.101	1.26	1.24	543.6	YES	NO	bb	bb	55.876
7	123678-HxCDF	35.30	5.772e4	4.760e4	1.019	1.21	1.24	595.8	YES	NO	dd	db	58.218
8	123478-HxCDF	35.15	5.369e4	4.398e4	1.045	1.22	1.24	587.3	YES	NO	bd	bd	57.274
9	1234678-HpCDF	39.02	4.152e4	4.261e4	1.243	0.97	1.05	361.7	YES	NO	bd	bb	54.682
10	OCDF	45.60	4.268e4	4.782e4	1.303	0.89	0.89	414.8	YES	NO	bb	bd	93.152
11	1234789-HpCDF	41.29	3.096e4	3.146e4	1.192	0.98	1.05	228.1	YES	NO	bd	bd	51.524

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.67	1.173e4	1.399e4	1.168	0.84	0.77	161.4	YES	NO	bb	bb	10.907

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	32.23	1.373e2	8.966e1	1.562	1.53	1.55	3.4	YES	NO	db	bb	0.116
2	12378-PeCDD	31.80	5.472e4	3.357e4	1.152	1.63	1.55	905.1	YES	NO	bd	bb	61.454

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.77	4.122e4	3.387e4	0.873	1.22	1.24	850.2	YES	NO	bb	bb	59.718
2	123678-HxCDD	36.38	4.500e4	3.699e4	0.950	1.22	1.24	902.2	YES	NO	db	db	58.495
3	123478-HxCDD	36.26	4.175e4	3.441e4	0.934	1.21	1.24	872.7	YES	NO	bd	bd	58.040

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.53	3.159e4	3.197e4	1.268	0.99	1.05	455.3	YES	NO	bd	bd	52.406

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:53:52 Pacific Standard Time

**ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk****Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.67	1.173e4	1.399e4	1.168	0.84	0.77	161.4	YES	NO	bb	bb	10.907
2	123789-HxCDD	36.77	4.122e4	3.387e4	0.873	1.22	1.24	850.2	YES	NO	bb	bb	59.718
3	123678-HxCDD	36.38	4.500e4	3.699e4	0.950	1.22	1.24	902.2	YES	NO	db	db	58.495
4	123478-HxCDD	36.26	4.175e4	3.441e4	0.934	1.21	1.24	872.7	YES	NO	bd	bd	58.040
5	Total-pentadioxins	32.23	1.373e2	8.966e1	1.562	1.53	1.55	3.4	YES	NO	db	bb	0.116
6	12378-PeCDD	31.80	5.472e4	3.357e4	1.152	1.63	1.55	905.1	YES	NO	bd	bb	61.454
7	OCDD	45.36	4.250e4	5.030e4	1.089	0.85	0.89	268.0	YES	NO	bd	bd	114.255
8	1234678-HpCDD	40.53	3.159e4	3.197e4	1.268	0.99	1.05	455.3	YES	NO	bd	bd	52.406

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	26.03	1.194e4	1.620e4	0.985	0.74	0.77	232.7	YES	NO	bd	bb	10.472
2	Total-tetrafurans	24.79	1.199e2	1.639e2	1.072	0.73	0.77	3.1	YES	NO	bd	bd	0.097
3	23478-PeCDF	31.54	6.765e4	4.355e4	1.008	1.55	1.55	739.4	YES	NO	bd	bb	53.363
4	12378-PeCDF	30.19	6.626e4	4.083e4	0.906	1.62	1.55	725.8	YES	NO	bb	bd	52.965
5	123789-HxCDF	37.18	4.279e4	3.359e4	0.992	1.27	1.24	437.0	YES	NO	bd	bb	56.090
6	234678-HxCDF	36.15	5.134e4	4.086e4	1.101	1.26	1.24	543.6	YES	NO	bb	bb	55.876
7	123678-HxCDF	35.30	5.772e4	4.760e4	1.019	1.21	1.24	595.8	YES	NO	dd	db	58.218
8	123478-HxCDF	35.15	5.369e4	4.398e4	1.045	1.22	1.24	587.3	YES	NO	bd	bd	57.274
9	1234678-HpCDF	39.02	4.152e4	4.261e4	1.243	0.97	1.05	361.7	YES	NO	bd	bb	54.682
10	OCDF	45.60	4.268e4	4.782e4	1.303	0.89	0.89	414.8	YES	NO	bb	bd	93.152
11	1234789-HpCDF	41.29	3.096e4	3.146e4	1.192	0.98	1.05	228.1	YES	NO	bd	bd	51.524
12	2378-TCDD	26.67	1.173e4	1.399e4	1.168	0.84	0.77	161.4	YES	NO	bb	bb	10.907
13	123789-HxCDD	36.77	4.122e4	3.387e4	0.873	1.22	1.24	850.2	YES	NO	bb	bb	59.718
14	123678-HxCDD	36.38	4.500e4	3.699e4	0.950	1.22	1.24	902.2	YES	NO	db	db	58.495
15	123478-HxCDD	36.26	4.175e4	3.441e4	0.934	1.21	1.24	872.7	YES	NO	bd	bd	58.040
16	Total-pentadioxins	32.23	1.373e2	8.966e1	1.562	1.53	1.55	3.4	YES	NO	db	bb	0.116
17	12378-PeCDD	31.80	5.472e4	3.357e4	1.152	1.63	1.55	905.1	YES	NO	bd	bb	61.454
18	OCDD	45.36	4.250e4	5.030e4	1.089	0.85	0.89	268.0	YES	NO	bd	bd	114.255
19	1234678-HpCDD	40.53	3.159e4	3.197e4	1.268	0.99	1.05	455.3	YES	NO	bd	bd	52.406



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.48	5.324e4					2.9	NO		dd		
2	FUNCTION1 PFK	21.38	6.287e4					3.7	YES		dd		
3	FUNCTION1 PFK	21.35	2.697e4					3.3	YES		bd		
4	FUNCTION1 PFK	21.25	1.721e4					1.9	NO		bb		
5	FUNCTION1 PFK	21.15	9.866e3					1.5	NO		bb		
6	FUNCTION1 PFK	24.01	1.722e4					1.4	NO		bb		
7	FUNCTION1 PFK	23.83	1.649e4					1.1	NO		bb		
8	FUNCTION1 PFK	23.45	9.377e3					1.2	NO		bb		
9	FUNCTION1 PFK	23.34	4.420e4					1.9	NO		db		
10	FUNCTION1 PFK	23.19	1.720e4					1.6	NO		bd		
11	FUNCTION1 PFK	23.13	5.945e3					0.8	NO		bb		
12	FUNCTION1 PFK	22.92	1.446e4					0.8	NO		bb		
13	FUNCTION1 PFK	22.78	1.474e4					1.3	NO		db		
14	FUNCTION1 PFK	22.74	1.898e4					1.7	NO		dd		
15	FUNCTION1 PFK	22.63	2.130e4					1.5	NO		dd		
16	FUNCTION1 PFK	22.51	5.772e4					2.9	NO		bd		
17	FUNCTION1 PFK	22.06	1.079e4					1.2	NO		bb		
18	FUNCTION1 PFK	21.98	1.664e4					1.3	NO		db		
19	FUNCTION1 PFK	21.88	1.483e4					1.4	NO		bd		
20	FUNCTION1 PFK	21.80	2.052e3					0.5	NO		bb		
21	FUNCTION1 PFK	21.56	3.491e4					2.3	NO		db		
22	FUNCTION1 PFK	26.79	5.074e4					2.0	NO		db		
23	FUNCTION1 PFK	26.67	2.544e4					2.0	NO		dd		
24	FUNCTION1 PFK	26.58	4.004e4					2.4	NO		bd		
25	FUNCTION1 PFK	26.46	1.376e4					1.5	NO		bb		
26	FUNCTION1 PFK	26.33	4.866e3					0.7	NO		bb		
27	FUNCTION1 PFK	25.88	1.591e4					1.2	NO		bb		
28	FUNCTION1 PFK	25.81	1.567e4					1.3	NO		bb		
29	FUNCTION1 PFK	25.70	5.813e3					0.8	NO		bb		
30	FUNCTION1 PFK	25.56	1.148e4					1.2	NO		bb		
31	FUNCTION1 PFK	25.47	6.075e4					2.0	NO		db		
32	FUNCTION1 PFK	25.26	8.140e3					1.1	NO		bd		
33	FUNCTION1 PFK	25.16	2.036e4					1.7	NO		db		
34	FUNCTION1 PFK	25.07	2.070e4					1.5	NO		bd		
35	FUNCTION1 PFK	24.97	4.952e3					0.7	NO		bb		
36	FUNCTION1 PFK	24.55	1.320e3					0.3	NO		bb		
37	FUNCTION1 PFK	24.49	4.797e3					0.7	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	27.88	1.601e4					1.5	NO		bb		
39	FUNCTION1 PFK	27.74	3.531e3					0.6	NO		bb		
40	FUNCTION1 PFK	27.60	6.503e3					0.9	NO		bb		
41	FUNCTION1 PFK	27.41	1.162e4					1.1	NO		db		
42	FUNCTION1 PFK	27.23	2.972e4					1.5	NO		bd		
43	FUNCTION1 PFK	27.15	1.551e3					0.4	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.41	1.011e5					1.1	NO		bb		0.000

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

## PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.10	1.683e4					2.0	NO		dd		0.000
2	FUNCTION3 PFK	34.05	1.122e4					1.5	NO		bd		0.000
3	FUNCTION3 PFK	33.89	1.262e4					1.4	NO		bb		0.000
4	FUNCTION3 PFK	33.71	5.944e3					0.9	NO		bb		0.000
5	FUNCTION3 PFK	33.33	1.576e4					1.5	NO		bb		0.000
6	FUNCTION3 PFK	33.18	2.414e4					2.6	NO		bb		0.000
7	FUNCTION3 PFK	33.08	4.188e3					0.9	NO		bb		0.000
8	FUNCTION3 PFK	35.86	8.958e3					0.9	NO		bb		0.000
9	FUNCTION3 PFK	35.69	3.656e3					0.5	NO		bb		0.000
10	FUNCTION3 PFK	35.56	1.960e4					1.7	NO		bb		0.000
11	FUNCTION3 PFK	35.40	6.404e3					1.0	NO		bb		0.000
12	FUNCTION3 PFK	35.22	7.248e3					1.4	NO		bb		0.000
13	FUNCTION3 PFK	35.12	1.175e4					1.1	NO		db		0.000
14	FUNCTION3 PFK	35.07	8.141e3					1.4	NO		bd		0.000
15	FUNCTION3 PFK	35.02	1.141e4					1.7	NO		bb		0.000
16	FUNCTION3 PFK	34.56	8.239e2					0.4	NO		bb		0.000
17	FUNCTION3 PFK	34.53	3.469e3					0.7	NO		db		0.000
18	FUNCTION3 PFK	34.48	9.102e3					1.4	NO		bd		0.000
19	FUNCTION3 PFK	34.40	1.065e4					1.7	NO		db		0.000
20	FUNCTION3 PFK	34.35	4.323e3					0.9	NO		dd		0.000
21	FUNCTION3 PFK	34.29	9.659e3					1.5	NO		bd		0.000
22	FUNCTION3 PFK	34.24	1.264e4					1.2	NO		db		0.000
23	FUNCTION3 PFK	34.16	8.795e3					1.4	NO		dd		0.000
24	FUNCTION3 PFK	37.35	7.873e3					1.5	NO		dd		0.000
25	FUNCTION3 PFK	37.30	1.204e4					2.1	NO		dd		0.000
26	FUNCTION3 PFK	37.26	8.227e3					1.5	NO		bd		0.000
27	FUNCTION3 PFK	36.97	3.871e4					1.4	NO		db		0.000
28	FUNCTION3 PFK	36.93	4.346e3					1.1	NO		dd		0.000
29	FUNCTION3 PFK	36.89	5.310e3					1.1	NO		bd		0.000
30	FUNCTION3 PFK	36.67	5.694e3					1.0	NO		db		0.000
31	FUNCTION3 PFK	36.62	8.058e3					1.2	NO		bd		0.000
32	FUNCTION3 PFK	36.50	4.153e3					0.9	NO		db		0.000
33	FUNCTION3 PFK	36.45	9.840e3					1.6	NO		dd		0.000
34	FUNCTION3 PFK	36.41	7.890e3					1.4	NO		bd		0.000
35	FUNCTION3 PFK	36.35	1.143e4					1.2	NO		db		0.000
36	FUNCTION3 PFK	36.25	1.200e4					1.3	NO		dd		0.000
37	FUNCTION3 PFK	36.19	2.588e3					0.6	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	36.14	7.276e3					1.4	NO		bb		0.000
39	FUNCTION3 PFK	36.03	8.773e3					1.3	NO		bb		0.000
40	FUNCTION3 PFK	37.95	3.799e3					0.7	NO		bb		0.000
41	FUNCTION3 PFK	37.86	9.014e3					1.4	NO		bb		0.000
42	FUNCTION3 PFK	37.72	1.429e4					1.5	NO		db		0.000
43	FUNCTION3 PFK	37.65	1.244e4					1.6	NO		bd		0.000
44	FUNCTION3 PFK	37.59	2.116e4					2.4	NO		db		0.000
45	FUNCTION3 PFK	37.48	4.402e4					2.2	NO		dd		0.000
46	FUNCTION3 PFK	37.39	8.621e3					1.3	NO		dd		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.51	1.606e4					1.8	NO		bb		
2	FUNCTION4 PFK	39.30	2.862e4					2.0	NO		bb		
3	FUNCTION4 PFK	39.06	5.304e3					1.5	NO		bb		
4	FUNCTION4 PFK	38.83	2.616e3					0.9	NO		bb		
5	FUNCTION4 PFK	38.73	1.864e3					0.7	NO		bb		
6	FUNCTION4 PFK	38.21	2.491e4					1.9	NO		bb		
7	FUNCTION4 PFK	38.11	1.805e3					0.7	NO		db		
8	FUNCTION4 PFK	38.08	9.884e2					0.5	NO		bd		
9	FUNCTION4 PFK	43.24	2.584e4					1.4	NO		bb		
10	FUNCTION4 PFK	42.97	5.010e3					1.1	NO		bb		
11	FUNCTION4 PFK	42.78	8.991e2					0.5	NO		bb		
12	FUNCTION4 PFK	42.67	2.742e3					0.9	NO		bb		
13	FUNCTION4 PFK	42.37	7.131e3					1.5	NO		bb		
14	FUNCTION4 PFK	42.28	9.477e3					1.5	NO		bb		
15	FUNCTION4 PFK	41.28	2.003e3					0.7	NO		bb		
16	FUNCTION4 PFK	41.18	3.032e3					1.1	NO		bb		
17	FUNCTION4 PFK	40.22	9.019e2					0.5	NO		bb		
18	FUNCTION4 PFK	39.95	5.332e3					1.2	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:53:52 Pacific Standard Time

**ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk****PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.28	9.357e2					0.6	NO		bb		
2	FUNCTION5 PFK	44.03	1.752e3					0.8	NO		db		
3	FUNCTION5 PFK	43.99	8.980e2					0.5	NO		bd		
4	FUNCTION5 PFK	43.93	7.200e2					0.6	NO		bb		
5	FUNCTION5 PFK	43.58	9.643e3					2.1	NO		bb		
6	FUNCTION5 PFK	46.14	4.857e3					1.3	NO		db		
7	FUNCTION5 PFK	46.12	1.455e3					0.7	NO		bd		
8	FUNCTION5 PFK	46.06	3.708e3					1.1	NO		bb		
9	FUNCTION5 PFK	45.94	6.191e3					1.1	NO		bb		
10	FUNCTION5 PFK	45.71	4.034e3					1.5	NO		bb		
11	FUNCTION5 PFK	45.62	5.417e3					1.5	NO		db		
12	FUNCTION5 PFK	45.58	1.549e3					0.8	NO		bd		
13	FUNCTION5 PFK	45.54	1.001e4					1.7	NO		db		
14	FUNCTION5 PFK	45.46	5.743e3					1.7	NO		bd		
15	FUNCTION5 PFK	45.42	8.889e2					0.5	NO		bb		
16	FUNCTION5 PFK	44.95	1.307e3					0.6	NO		bb		
17	FUNCTION5 PFK	44.72	1.026e4					1.7	NO		bb		
18	FUNCTION5 PFK	44.63	2.471e3					0.7	NO		db		
19	FUNCTION5 PFK	44.61	3.448e3					1.2	NO		bd		
20	FUNCTION5 PFK	44.51	3.372e3					1.2	NO		db		
21	FUNCTION5 PFK	44.47	2.352e3					0.8	NO		bd		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.86	1.228e2					2.6	NO		db		0.000
2	FUNCTION1 HXCD...	27.80	1.082e2					3.1	YES		bd		0.000
3	FUNCTION1 HXCD...	24.51	9.126e1					1.6	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:53:52 Pacific Standard Time

**ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk****ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.79	1.024e2					3.3	YES		bb		0.000
2	FUNCTION1 HPCD...	26.53	1.075e2					2.6	NO		bb		0.000
3	FUNCTION1 HPCD...	24.96	7.213e1					1.8	NO		bb		0.000
4	FUNCTION1 HPCD...	24.52	1.059e2					2.4	NO		bb		0.000
5	FUNCTION1 HPCD...	23.57	7.899e1					1.9	NO		bb		0.000
6	FUNCTION1 HPCD...	23.24	1.017e2					2.8	NO		bb		0.000
7	FUNCTION1 HPCD...	22.54	1.088e2					3.0	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.58	1.228e2					2.7	NO		bb		0.000
2	FUNCTION2 HPCD...	29.25	1.234e2					2.3	NO		db		0.000
3	FUNCTION2 HPCD...	29.11	1.226e2					1.9	NO		bd		0.000
4	FUNCTION2 HPCD...	31.91	8.899e1					1.9	NO		bb		0.000
5	FUNCTION2 HPCD...	30.59	8.139e1					2.1	NO		bb		0.000
6	FUNCTION2 HPCD...	30.26	8.434e1					1.5	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.13	9.493e1					1.8	NO		bb		0.000
2	FUNCTION3 OCDPE	35.11	1.218e2					3.7	YES		db		0.000
3	FUNCTION3 OCDPE	35.03	1.273e2					3.2	YES		bd		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.93	7.632e1					2.0	NO		bb		0.000

**ETHERS6**

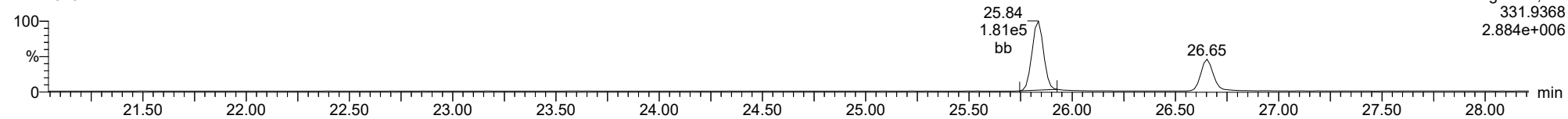
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

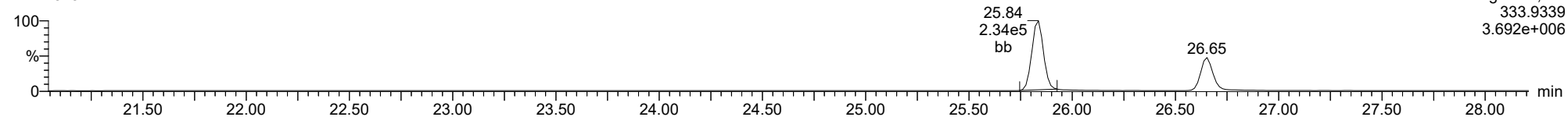
**13C-1234-TCDD**

22122815



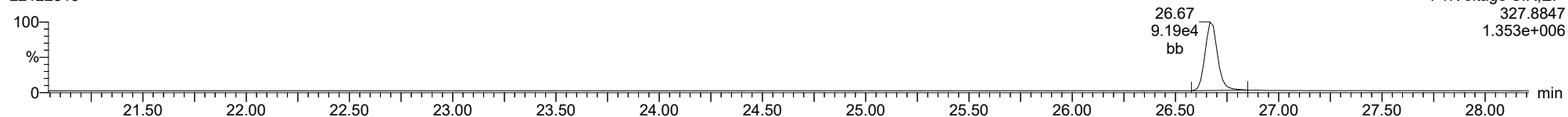
**13C-1234-TCDD**

22122815



**37CL-2378-TCDD**

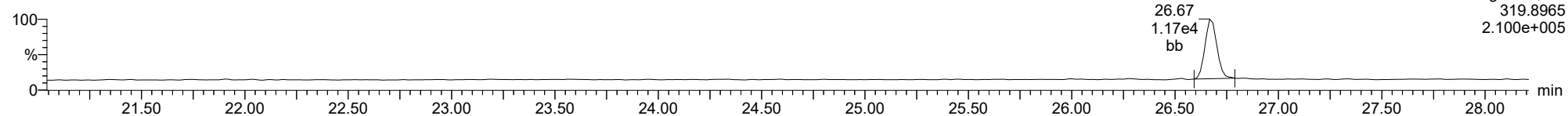
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

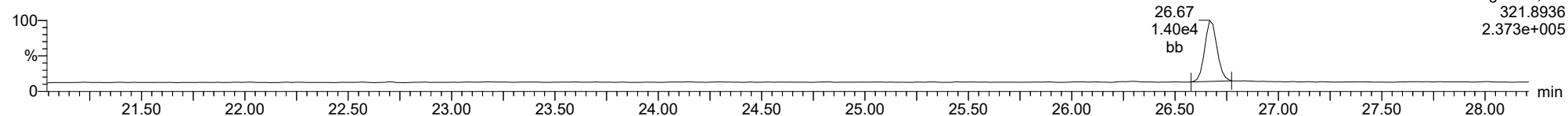
22122815



F1:Voltage SIR,EI+  
319.8965  
2.100e+005

**2378-TCDD**

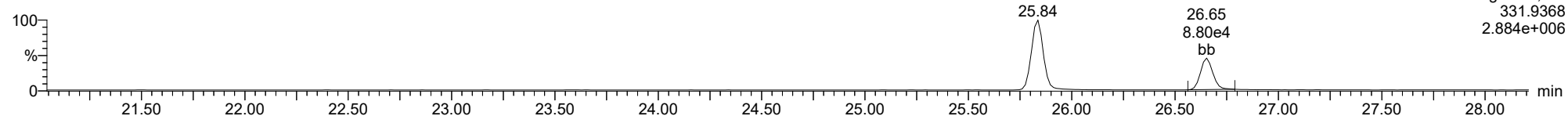
22122815



F1:Voltage SIR,EI+  
321.8936  
2.373e+005

**13C-2378-TCDD**

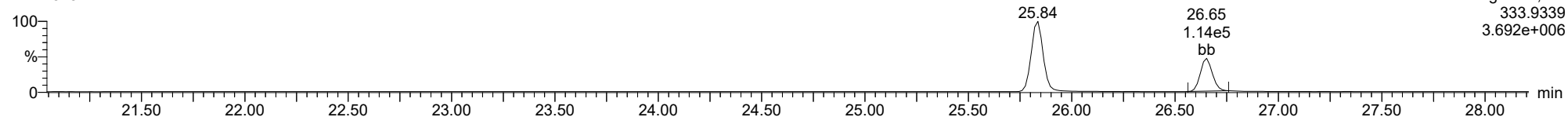
22122815



F1:Voltage SIR,EI+  
331.9368  
2.884e+006

**13C-2378-TCDD**

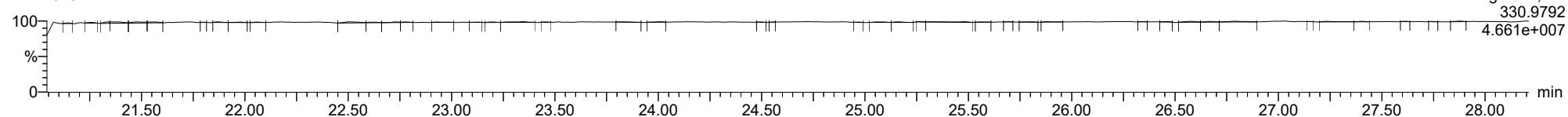
22122815



F1:Voltage SIR,EI+  
333.9339  
3.692e+006

**FUNCTION1 PFK**

22122815



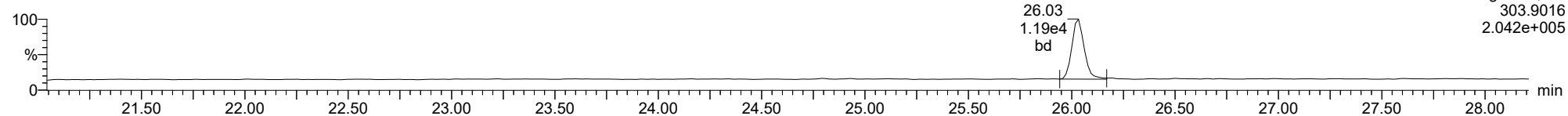
F1:Voltage SIR,EI+  
330.9792  
4.661e+007



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**2378-TCDF**

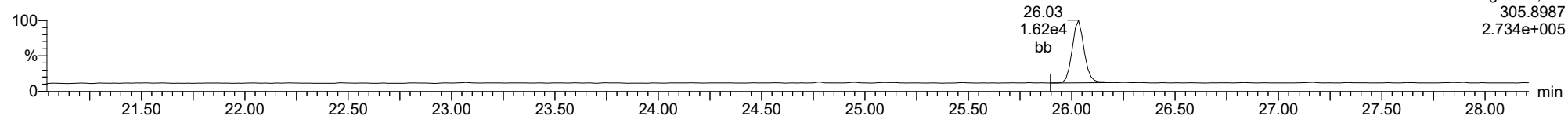
22122815



F1:Voltage SIR,EI+  
303.9016  
2.042e+005

**2378-TCDF**

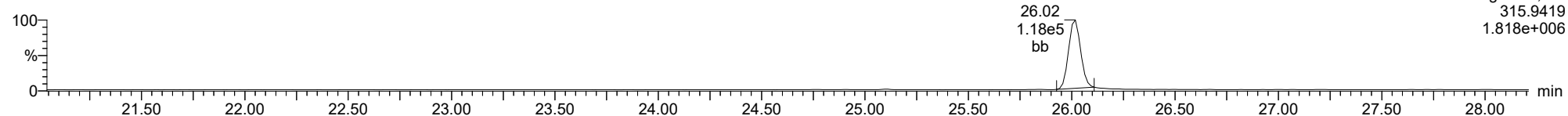
22122815



F1:Voltage SIR,EI+  
305.8987  
2.734e+005

**13C-2378-TCDF**

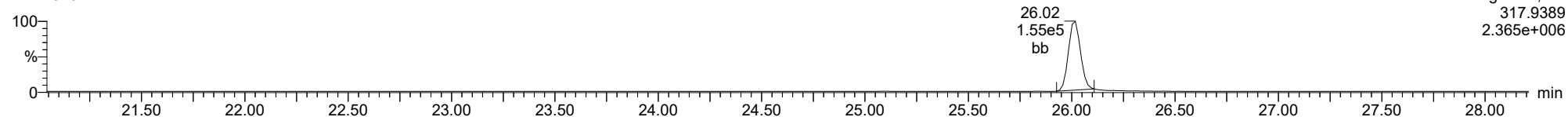
22122815



F1:Voltage SIR,EI+  
315.9419  
1.818e+006

**13C-2378-TCDF**

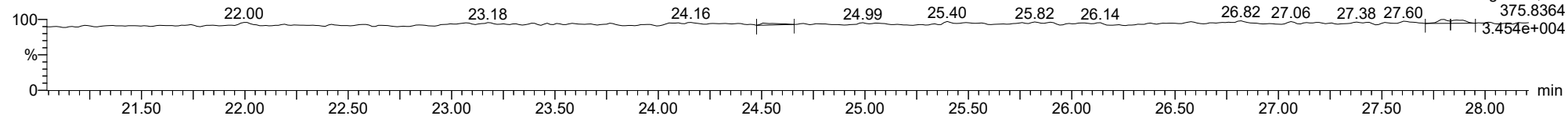
22122815



F1:Voltage SIR,EI+  
317.9389  
2.365e+006

**FUNCTION1 HXCDPE**

22122815

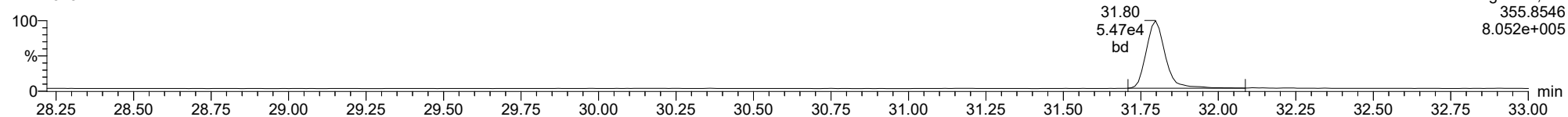


F1:Voltage SIR,EI+  
375.8364  
3.454e+004

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

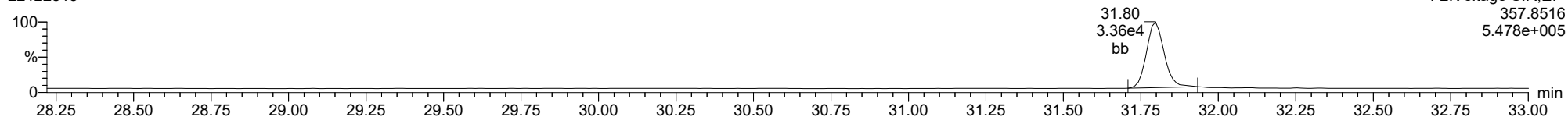
22122815



F2:Voltage SIR,EI+  
357.8516  
8.052e+005

**12378-PeCDD**

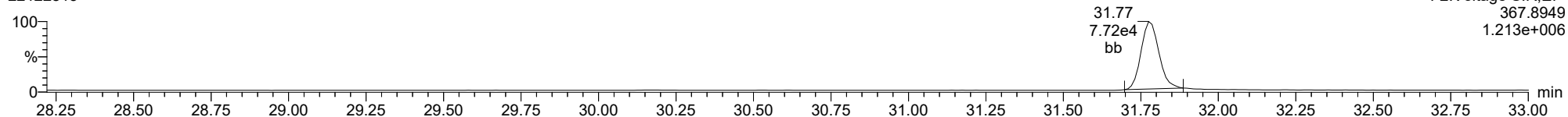
22122815



F2:Voltage SIR,EI+  
357.8516  
5.478e+005

**13C-12378-PeCDD**

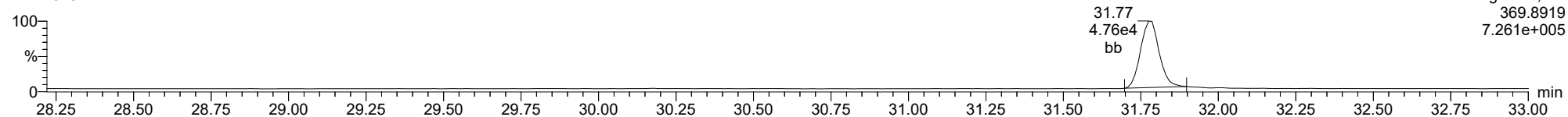
22122815



F2:Voltage SIR,EI+  
367.8949  
1.213e+006

**13C-12378-PeCDD**

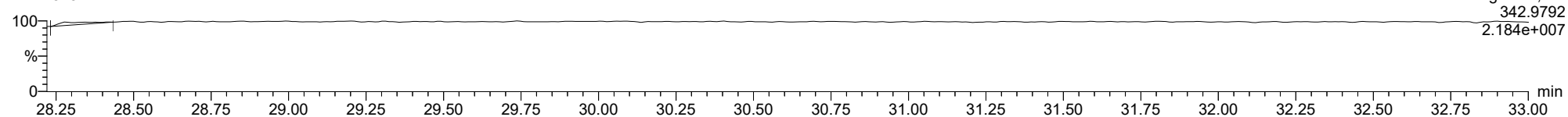
22122815



F2:Voltage SIR,EI+  
369.8919  
7.261e+005

**FUNCTION2 PFK**

22122815

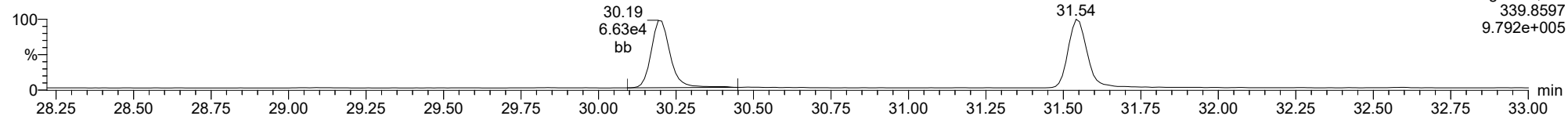


F2:Voltage SIR,EI+  
342.9792  
2.184e+007

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**12378-PeCDF**

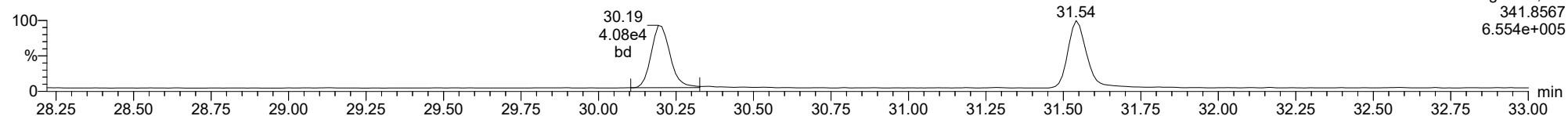
22122815



F2:Voltage SIR,EI+  
339.8597  
9.792e+005

**12378-PeCDF**

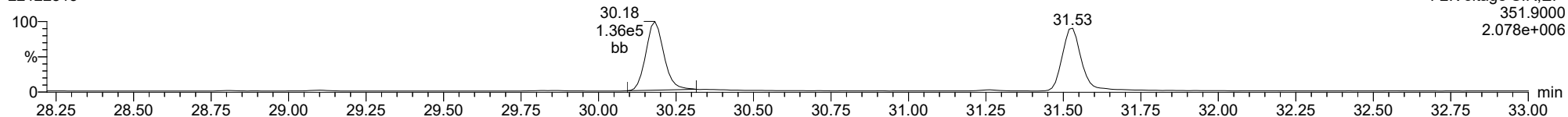
22122815



F2:Voltage SIR,EI+  
341.8567  
6.554e+005

**13C-12378-PeCDF**

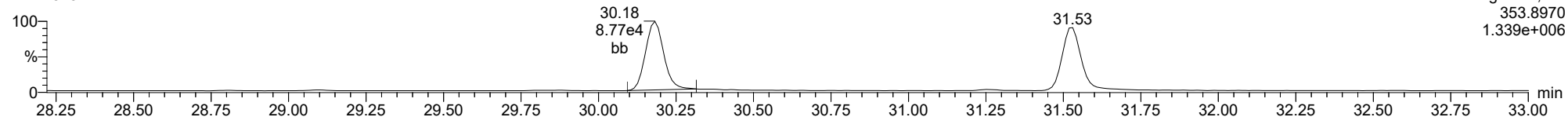
22122815



F2:Voltage SIR,EI+  
351.9000  
2.078e+006

**13C-12378-PeCDF**

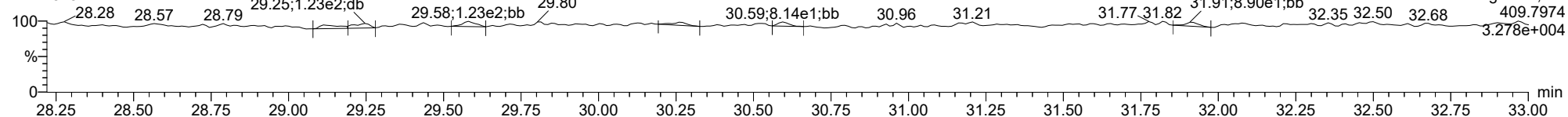
22122815



F2:Voltage SIR,EI+  
353.8970  
1.339e+006

**FUNCTION2 HPCDPE**

22122815

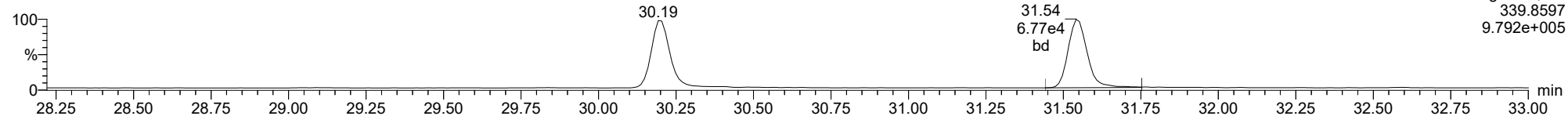


F2:Voltage SIR,EI+  
409.7974  
3.278e+004

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

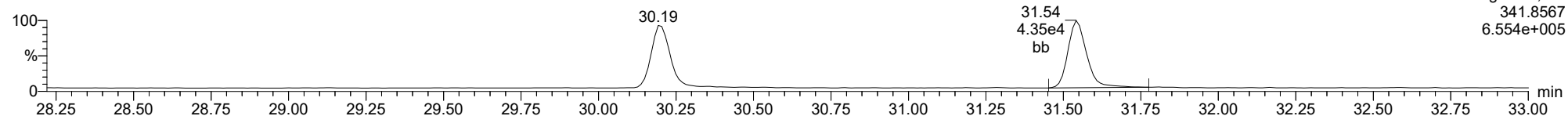
22122815



F2:Voltage SIR,EI+  
339.8597  
9.792e+005

**23478-PeCDF**

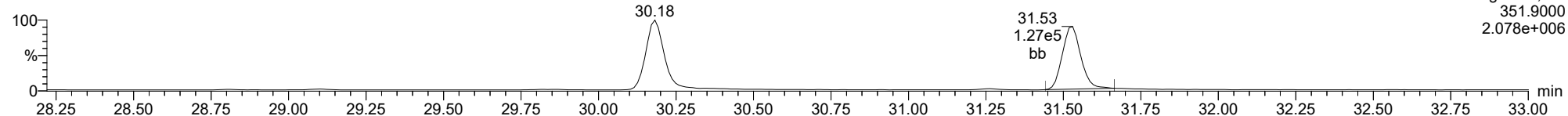
22122815



F2:Voltage SIR,EI+  
341.8567  
6.554e+005

**13C-23478-PeCDF**

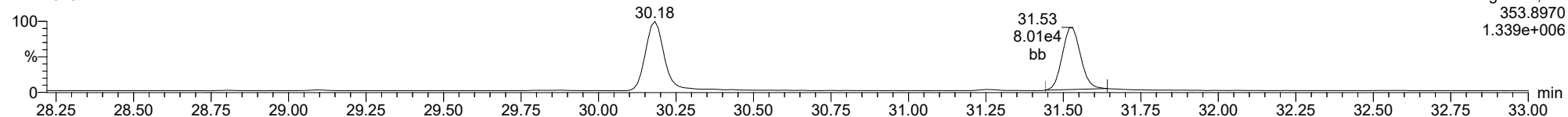
22122815



F2:Voltage SIR,EI+  
351.9000  
2.078e+006

**13C-23478-PeCDF**

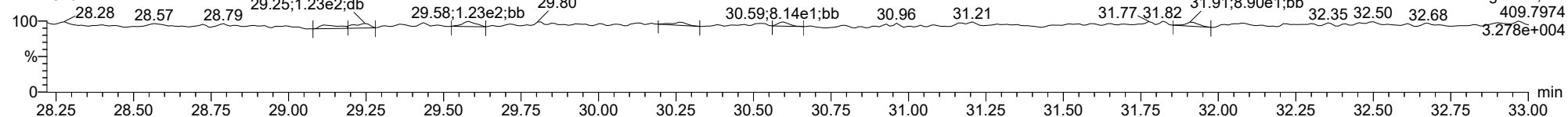
22122815



F2:Voltage SIR,EI+  
353.8970  
1.339e+006

**FUNCTION2 HPCDPE**

22122815

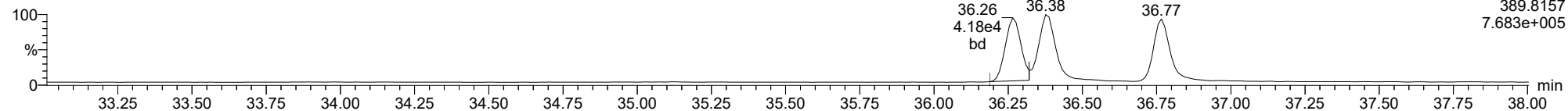


F2:Voltage SIR,EI+  
409.7974  
3.278e+004

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

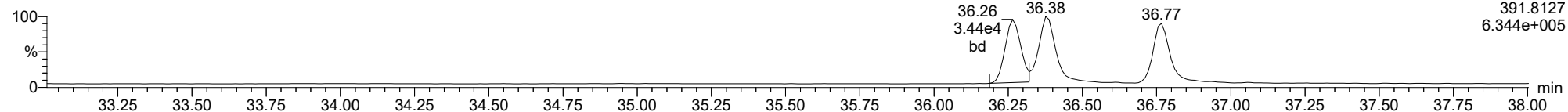
**123478-HxCDD**

22122815



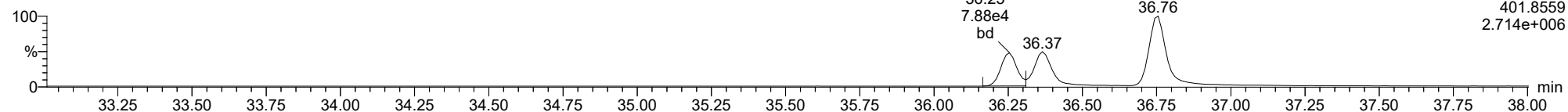
**123478-HxCDD**

22122815



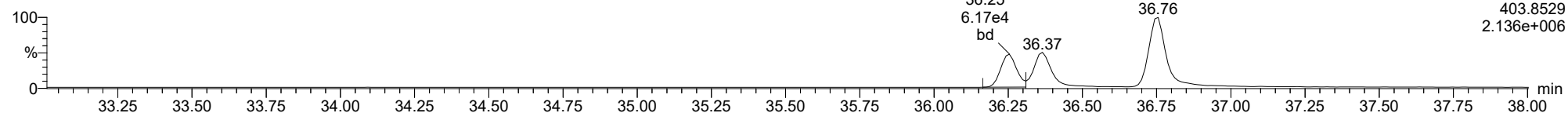
**13C-123478-HxCDD**

22122815



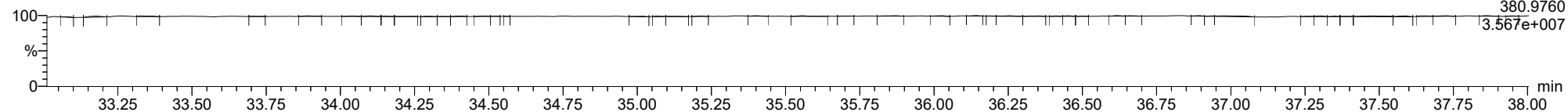
**13C-123478-HxCDD**

22122815



**FUNCTION3 PFK**

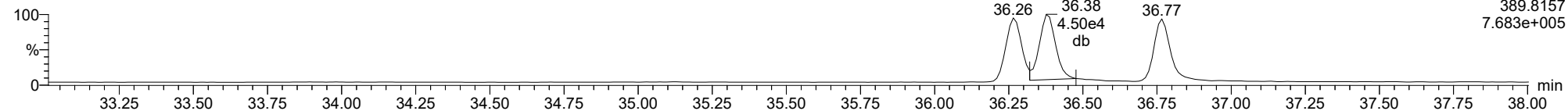
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

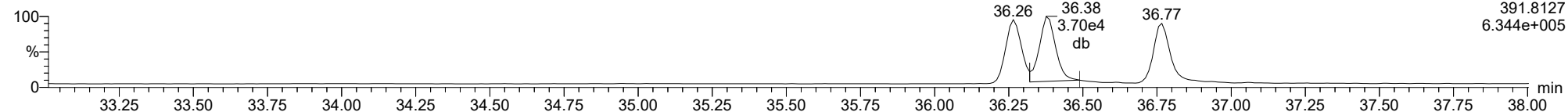
22122815



F3:Voltage SIR,EI+  
389.8157  
7.683e+005

**123678-HxCDD**

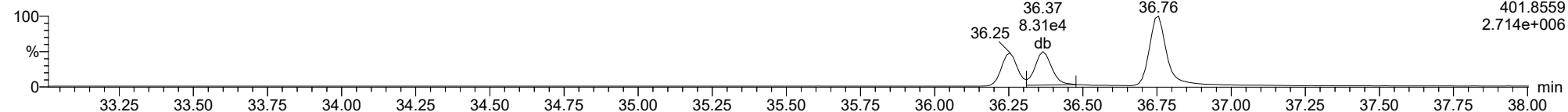
22122815



F3:Voltage SIR,EI+  
391.8127  
6.344e+005

**13C-123678-HxCDD**

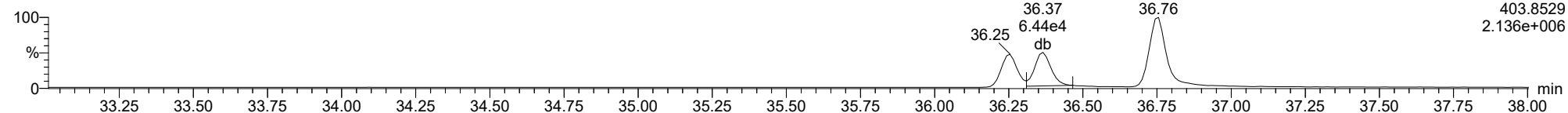
22122815



F3:Voltage SIR,EI+  
401.8559  
2.714e+006

**13C-123678-HxCDD**

22122815

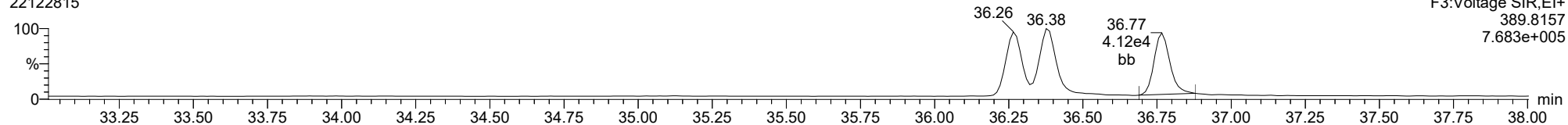


F3:Voltage SIR,EI+  
403.8529  
2.136e+006

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

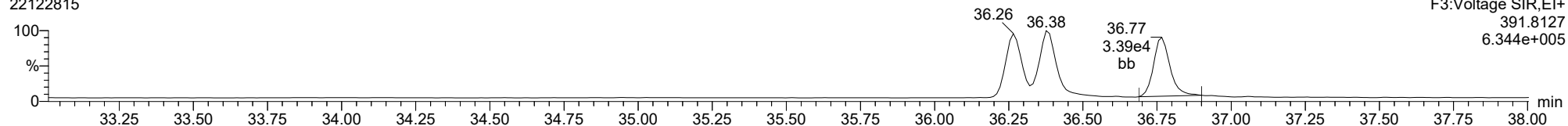
**123789-HxCDD**

22122815



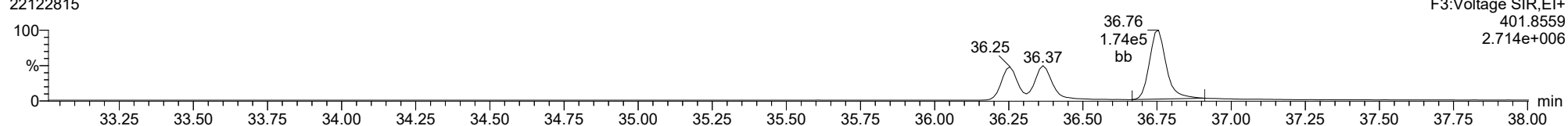
**123789-HxCDD**

22122815



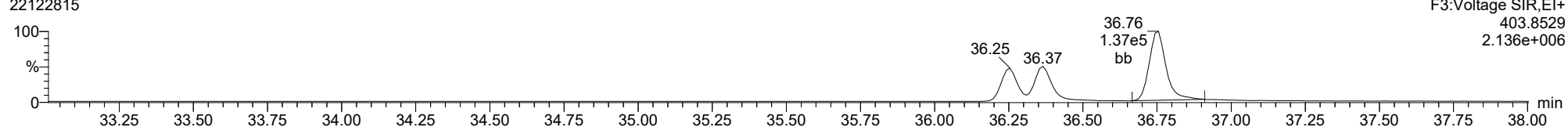
**13C-123789-HxCDD**

22122815



**13C-123789-HxCDD**

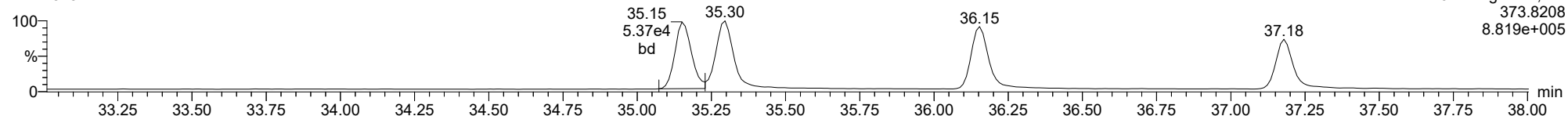
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

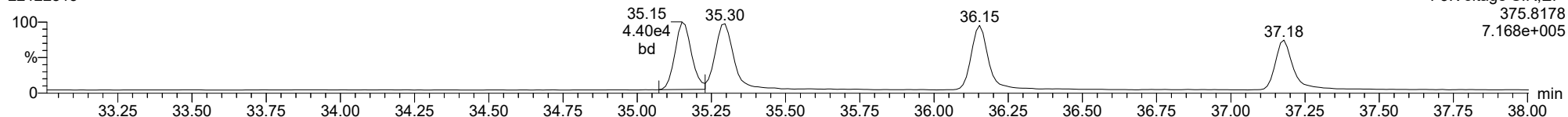
123478-HxCDF

22122815



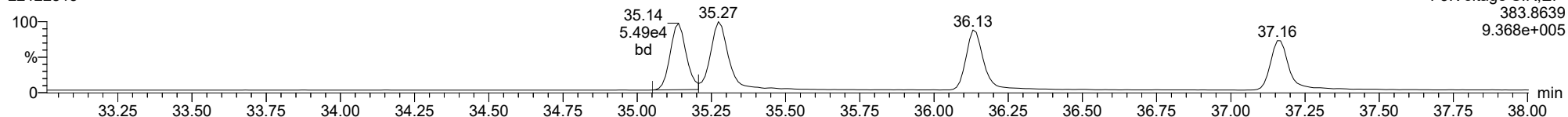
123478-HxCDF

22122815



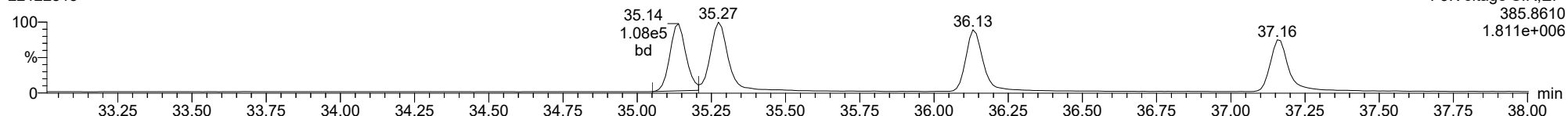
13C-123478-HxCDF

22122815



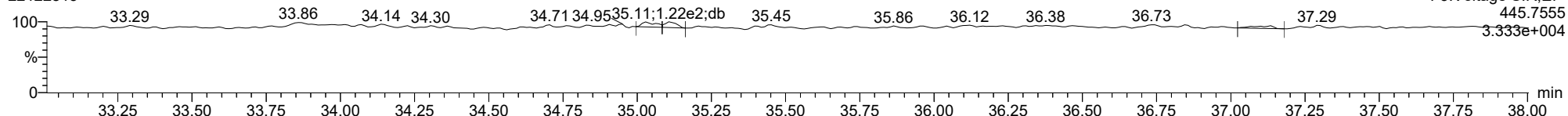
13C-123478-HxCDF

22122815



FUNCTION3 OCDPE

22122815

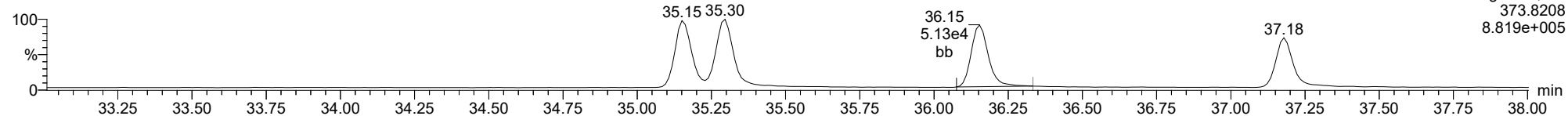




ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

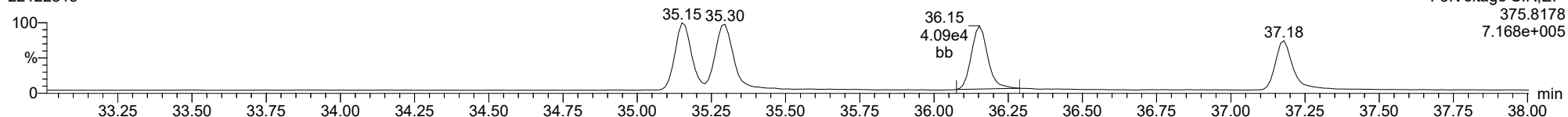
**234678-HxCDF**

22122815



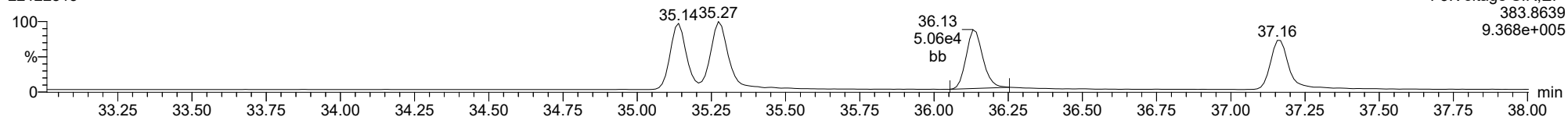
**234678-HxCDF**

22122815



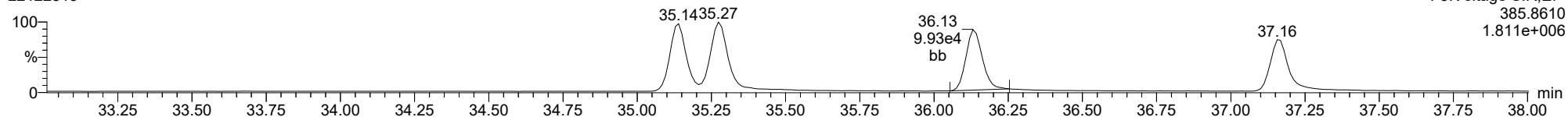
**13C-234678-HxCDF**

22122815



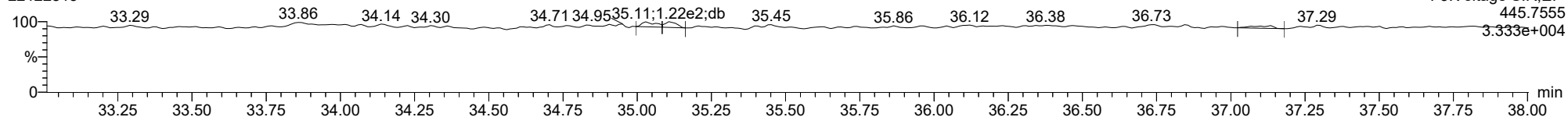
**13C-234678-HxCDF**

22122815



**FUNCTION3 OCDPE**

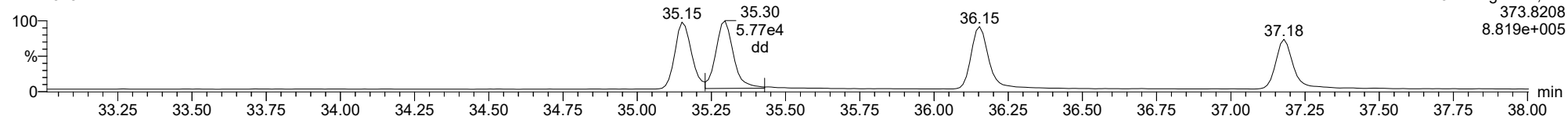
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

123678-HxCDF

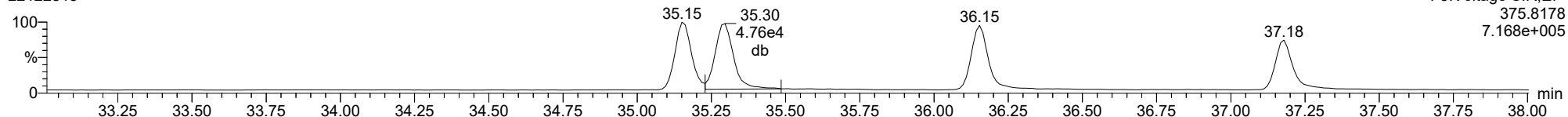
22122815



F3:Voltage SIR,EI+  
373.8208  
8.819e+005

123678-HxCDF

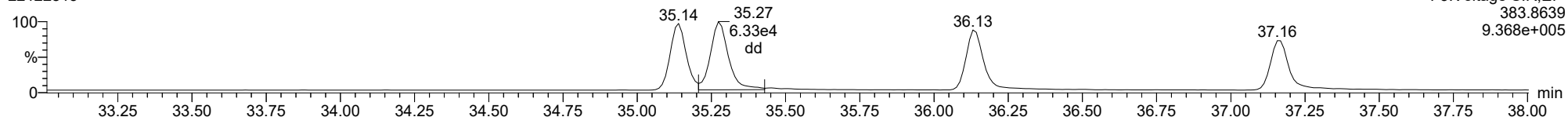
22122815



F3:Voltage SIR,EI+  
375.8178  
7.168e+005

13C-123678-HxCDF

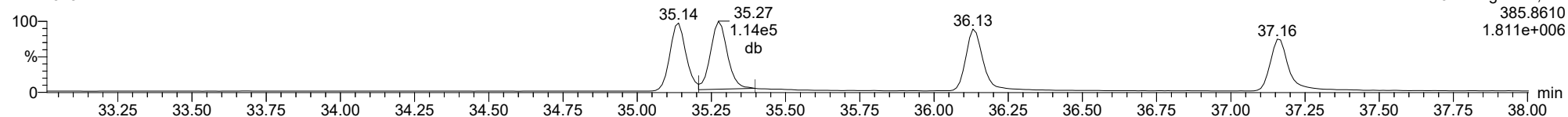
22122815



F3:Voltage SIR,EI+  
383.8639  
9.368e+005

13C-123678-HxCDF

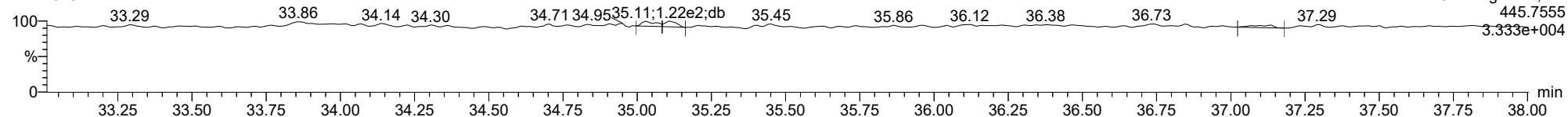
22122815



F3:Voltage SIR,EI+  
385.8610  
1.811e+006

FUNCTION3 OCDPE

22122815

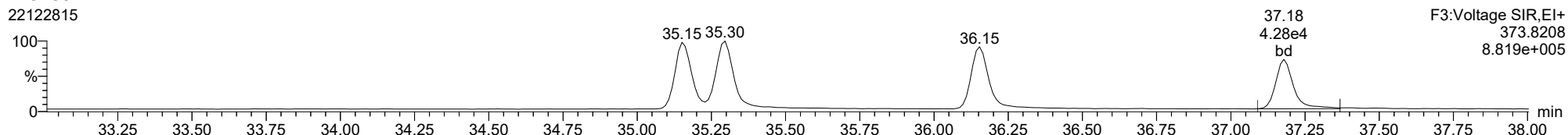


F3:Voltage SIR,EI+  
445.7555  
3.333e+004

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

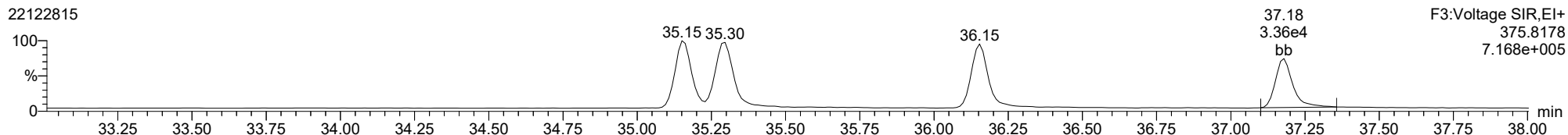
123789-HxCDF

22122815



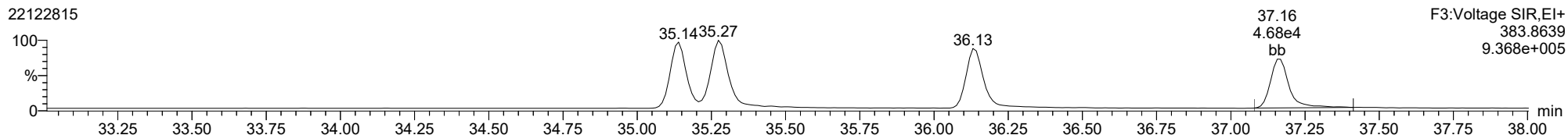
123789-HxCDF

22122815



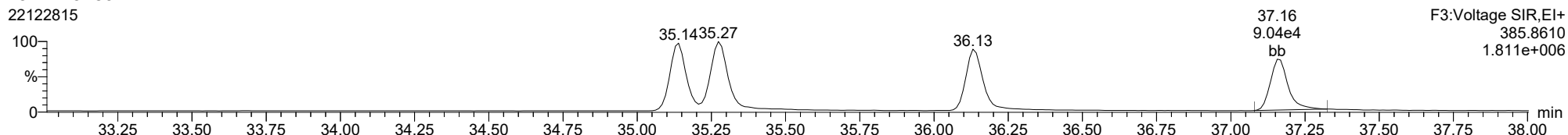
13C-123789-HxCDF

22122815



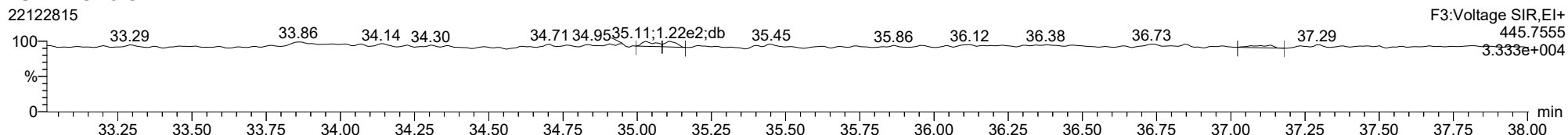
13C-123789-HxCDF

22122815



FUNCTION3 OCDPE

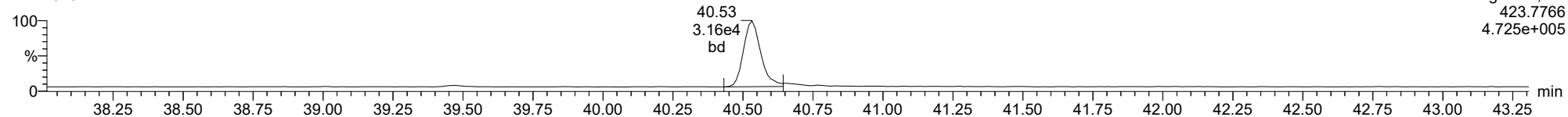
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

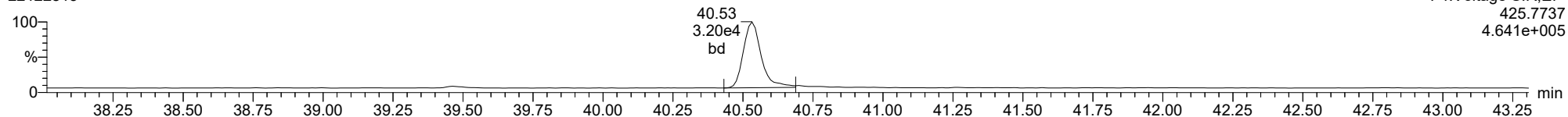
**1234678-HpCDD**

22122815



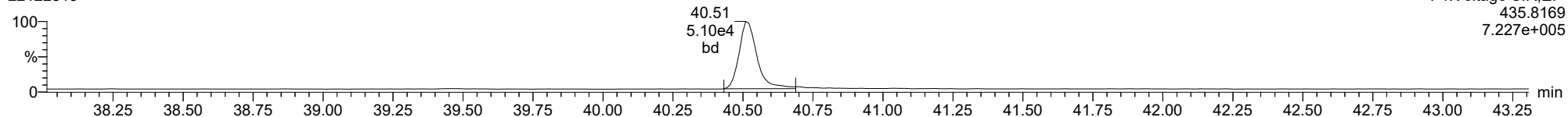
**1234678-HpCDD**

22122815



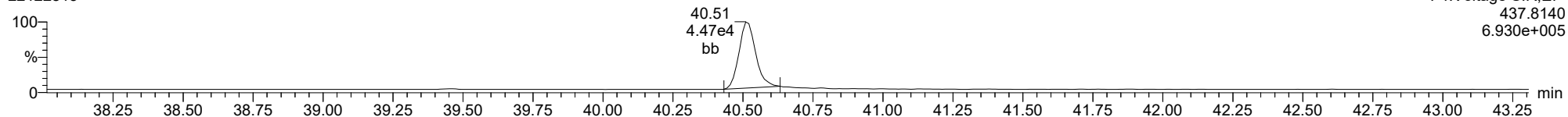
**13C-1234678-HpCDD**

22122815



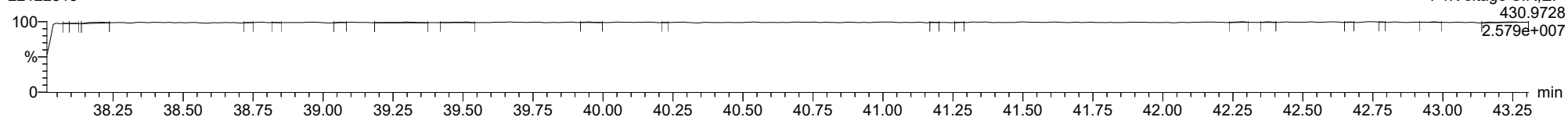
**13C-1234678-HpCDD**

22122815



**FUNCTION4 PFK**

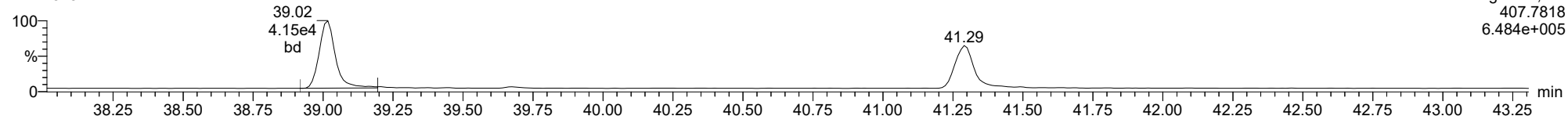
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

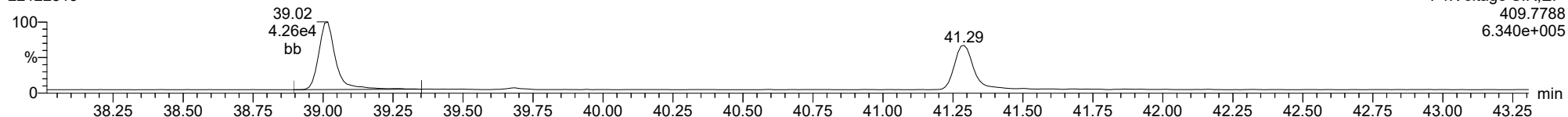
1234678-HpCDF

22122815



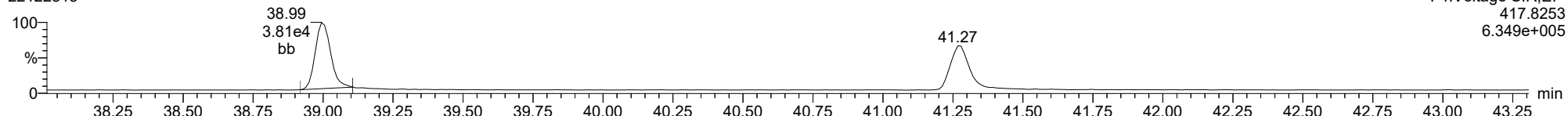
1234678-HpCDF

22122815



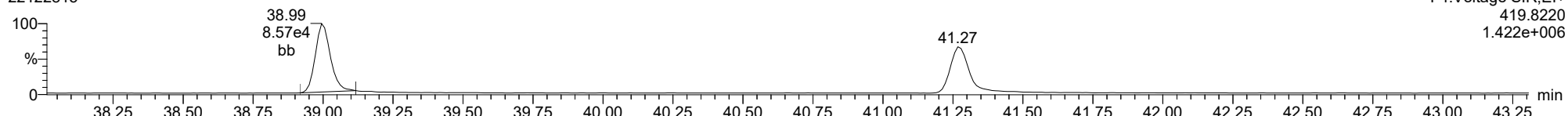
13C-1234678-HpCDF

22122815



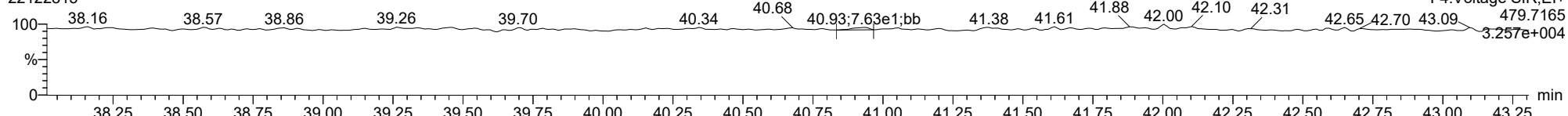
13C-1234678-HpCDF

22122815



FUNCTION4 NCDPE

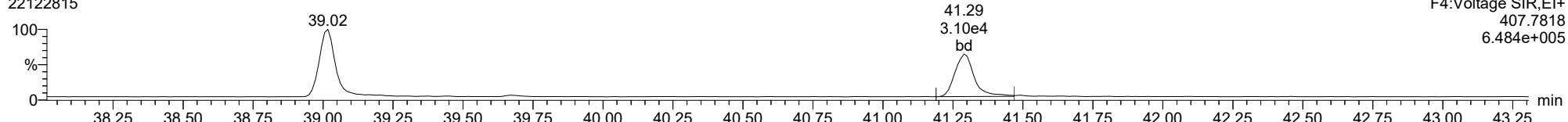
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

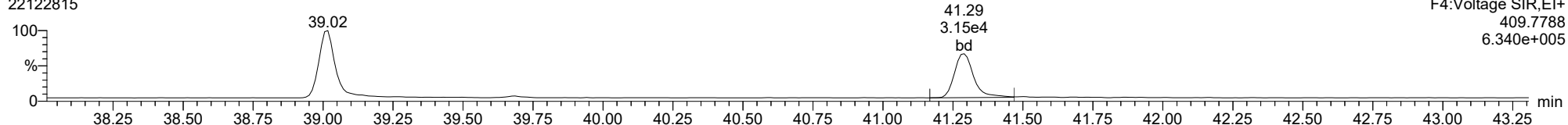
22122815



F4:Voltage SIR,EI+  
407.7818  
6.484e+005

1234789-HpCDF

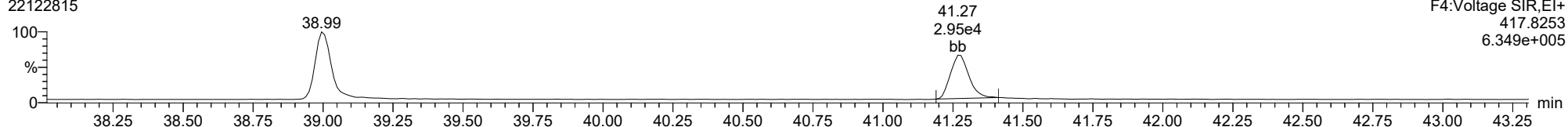
22122815



F4:Voltage SIR,EI+  
409.7788  
6.340e+005

13C-1234789-HpCDF

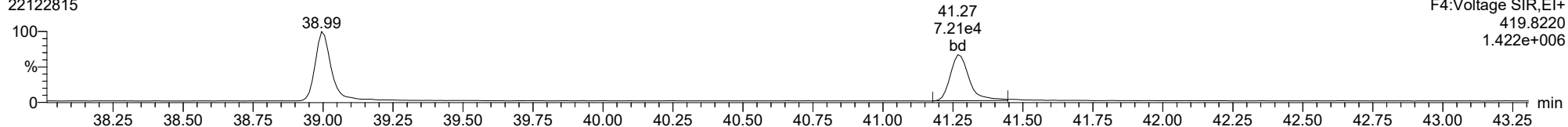
22122815



F4:Voltage SIR,EI+  
417.8253  
6.349e+005

13C-1234789-HpCDF

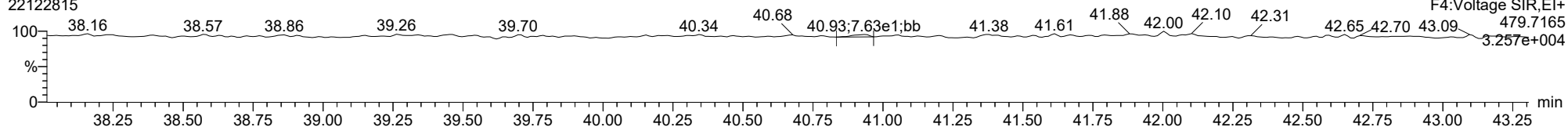
22122815



F4:Voltage SIR,EI+  
419.8220  
1.422e+006

FUNCTION4 NCDPE

22122815

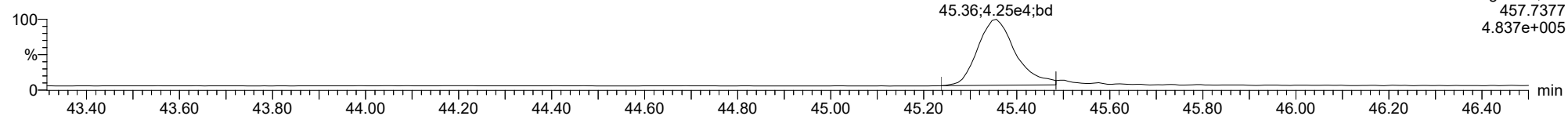


F4:Voltage SIR,EI+  
479.7165  
3.257e+004

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**OCDD**

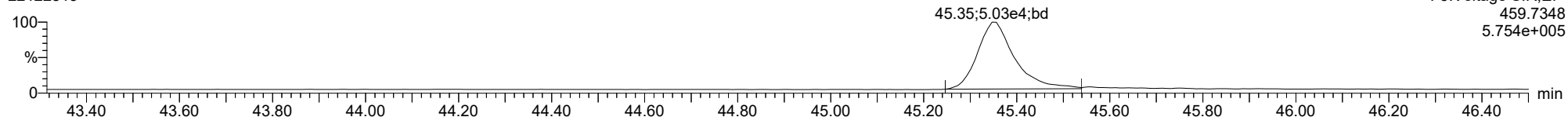
22122815



F5:Voltage SIR,EI+  
457.7377  
4.837e+005

**OCDD**

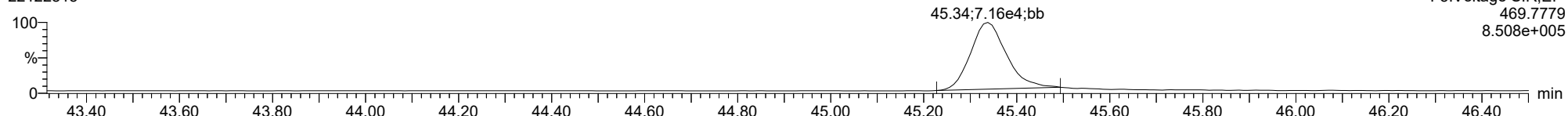
22122815



F5:Voltage SIR,EI+  
459.7348  
5.754e+005

**13C-OCDD**

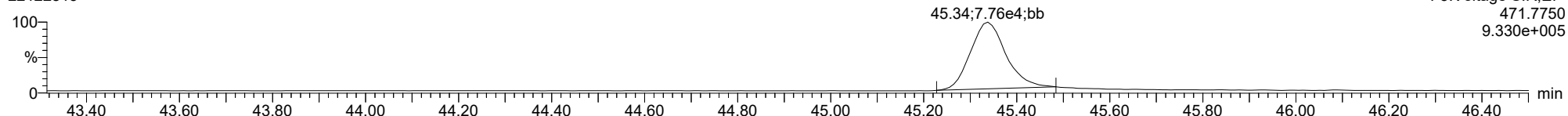
22122815



F5:Voltage SIR,EI+  
469.7779  
8.508e+005

**13C-OCDD**

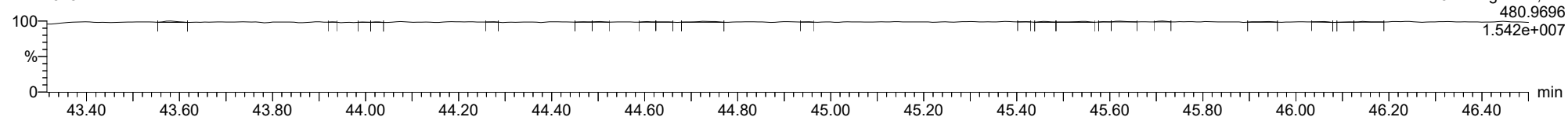
22122815



F5:Voltage SIR,EI+  
471.7750  
9.330e+005

**FUNCTION5 PFK**

22122815

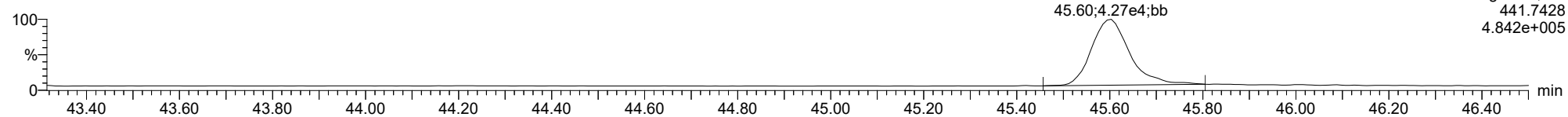


F5:Voltage SIR,EI+  
480.9696  
1.542e+007

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

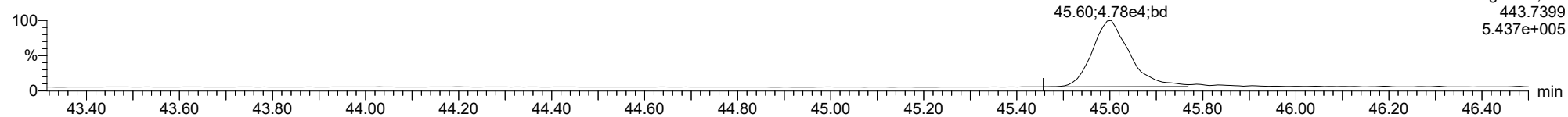
**OCDF**

22122815



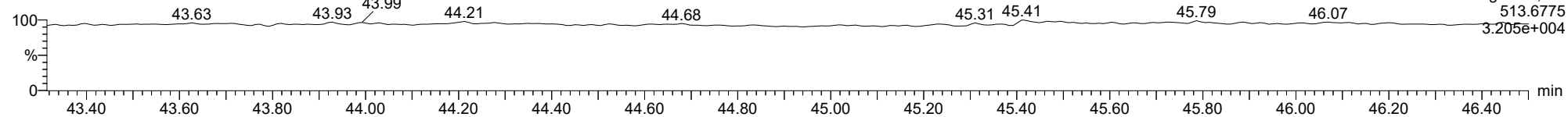
**OCDF**

22122815



**FUNCTION5 DCDPE**

22122815

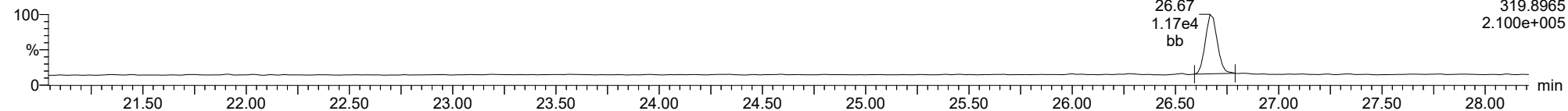




ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

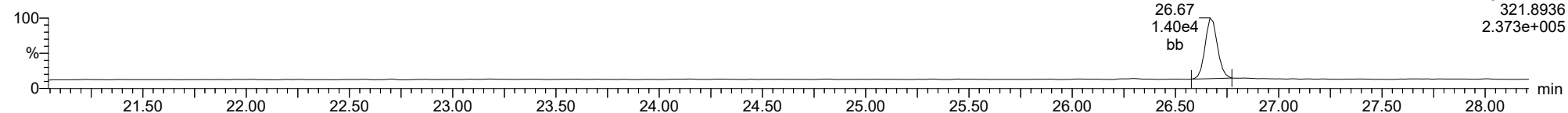
**Total-tetradiioxins**

22122815



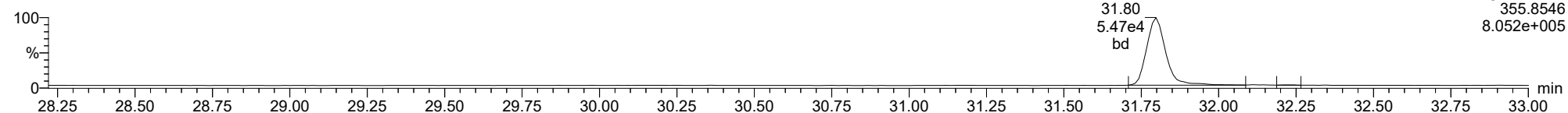
**Total-tetradiioxins**

22122815



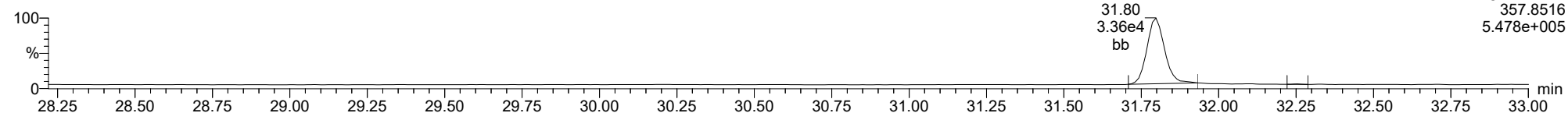
**Total-pentadiioxins**

22122815



**Total-pentadiioxins**

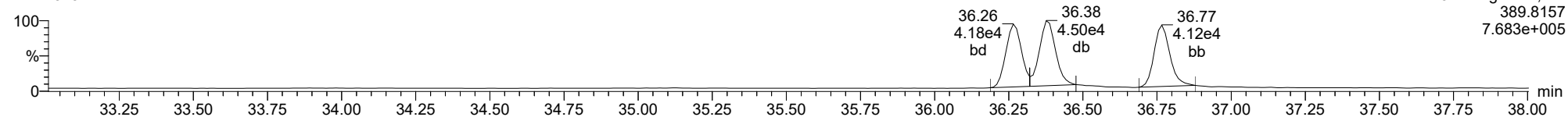
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

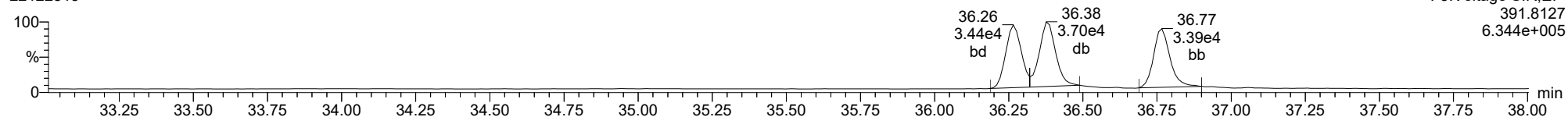
**Total-hexadioxins**

22122815



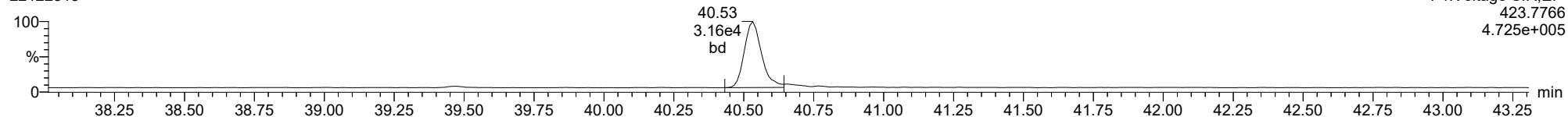
**Total-hexadioxins**

22122815



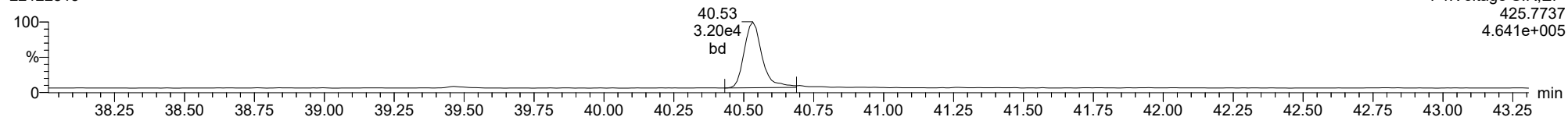
**Total-heptadioxins**

22122815



**Total-heptadioxins**

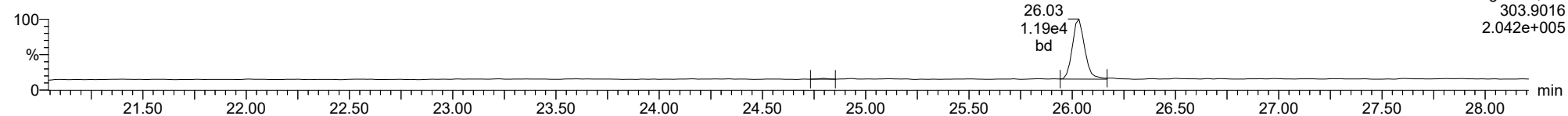
22122815



ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

**Total-tetrafurans**

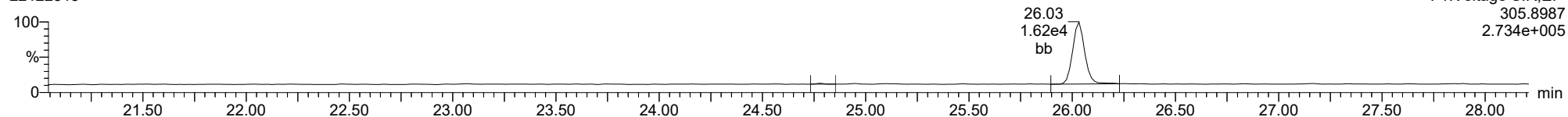
22122815



F1:Voltage SIR,EI+  
303.9016  
2.042e+005

**Total-tetrafurans**

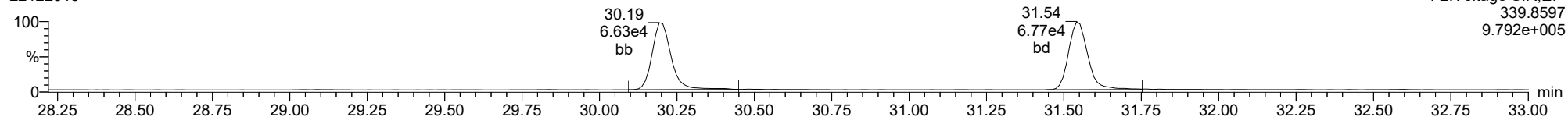
22122815



F1:Voltage SIR,EI+  
305.8987  
2.734e+005

**Total-pentafurans**

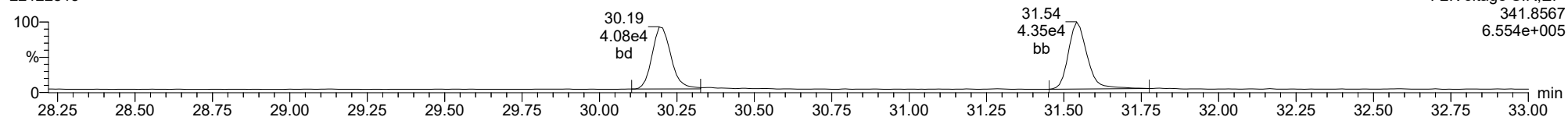
22122815



F2:Voltage SIR,EI+  
339.8597  
9.792e+005

**Total-pentafurans**

22122815

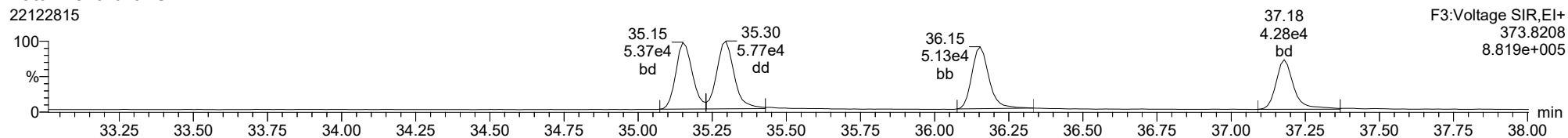


F2:Voltage SIR,EI+  
341.8567  
6.554e+005

ID: BLK0419-BS1, Name: 22122815, Date: 28-Dec-2022, Time: 22:24:43, Conditions: AUTOSPEC01, User: pk

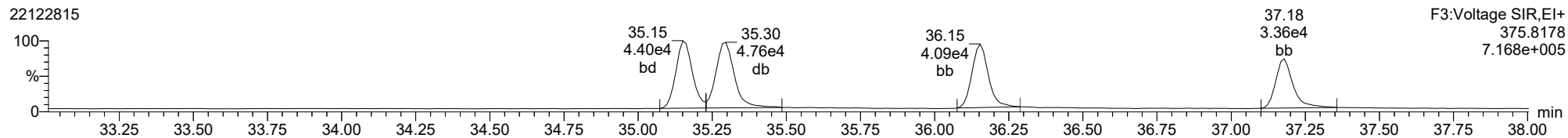
**Total-hexafurans**

22122815



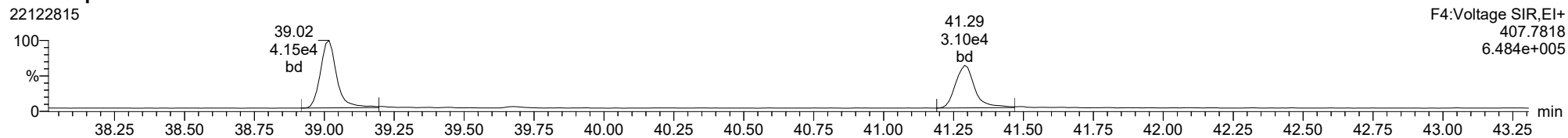
**Total-hexafurans**

22122815



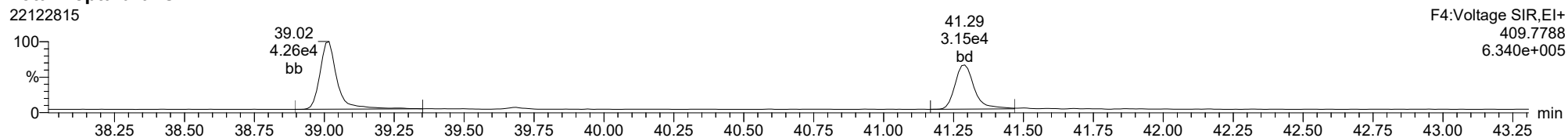
**Total-heptafurans**

22122815



**Total-heptafurans**

22122815





**DUPLICATES**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0419-DUP1

Batch: BKL0419

Lab Source ID: 22L0246-07

Preparation: EPA 1613

Initial/Final: 15.84 g / 20 uL

Source Sample Name: LDW22-IT810A

% Solids: 63.16

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
2,3,7,8-TCDF	25	6.35	5.16	20.7	
2,3,7,8-TCDD	25	0.627	0.729	15.0	
1,2,3,7,8-PeCDF	25	2.01	2.03	0.899	
2,3,4,7,8-PeCDF	25	3.71	4.09	9.70	
1,2,3,7,8-PeCDD	25	3.76	4.06	7.57	
1,2,3,4,7,8-HxCDF	25	21.5	27.2	23.6	
1,2,3,6,7,8-HxCDF	25	6.92	8.54	21.0	
2,3,4,6,7,8-HxCDF	25	8.82	10.0	12.7	
1,2,3,7,8,9-HxCDF	25	3.70	5.02	30.3	*
1,2,3,4,7,8-HxCDD	25	4.26	4.56	6.74	
1,2,3,6,7,8-HxCDD	25	16.2	19.4	17.7	
1,2,3,7,8,9-HxCDD	25	9.21	10.2	10.3	
1,2,3,4,6,7,8-HpCDF	25	107	139	25.9	*
1,2,3,4,7,8,9-HpCDF	25	12.7	17.4	31.4	*
1,2,3,4,6,7,8-HpCDD	25	353	463	27.0	*
OCDF	25	250	354	34.3	*
OCDD	25	2720	3580	27.2	*
Total TCDF	200	56.8	57.0	0.277	
Total TCDD	200	12.6	13.6	7.12	
Total PeCDF	200	86.3	97.3	12.1	
Total PeCDD	200	22.6	18.3	20.9	
Total HxCDF	200	184	234	23.7	
Total HxCDD	200	127	149	15.7	
Total HpCDF	200	387	531	31.2	
Total HpCDD	200	677	899	28.1	
13C12-2,3,7,8-TCDF		149	145		
13C12-2,3,7,8-TCDD		183	181		

\* Values outside of QC limits

L Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to +/- RL instead of 20% RPD



**DUPLICATES**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0419-DUP1

Batch: BKL0419

Lab Source ID: 22L0246-07

Preparation: EPA 1613

Initial/Final: 15.84 g / 20 uL

Source Sample Name: LDW22-IT810A

% Solids: 63.16

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
13C12-1,2,3,7,8-PeCDF		153	147		
13C12-2,3,4,7,8-PeCDF		153	148		
13C12-1,2,3,7,8-PeCDD		163	158		
13C12-1,2,3,4,7,8-HxCDF		168	170		
13C12-1,2,3,6,7,8-HxCDF		163	164		
13C12-2,3,4,6,7,8-HxCDF		171	173		
13C12-1,2,3,7,8,9-HxCDF		187	186		
13C12-1,2,3,4,7,8-HxCDD		167	166		
13C12-1,2,3,6,7,8-HxCDD		159	161		
13C12-1,2,3,4,6,7,8-HpCDF		150	149		
13C12-1,2,3,4,7,8,9-HpCDF		160	153		
13C12-1,2,3,4,6,7,8-HpCDD		192	183		
13C12-OCDD		387	365		
37Cl4-2,3,7,8-TCDD		79.5	76.0		

\*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/-RL instead of 20% RPD

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:54:35 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

**ID:** BLK0419-DUP1, **Name:** 22122818, **Date:** 29-Dec-2022, **Time:** 00:53:19, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.033	1.001	8.541e3	1.164e4	0.985	0.734	0.770	1933	1191	1.30e5	1.72e5	67.1	144.8	NO	dd	dd	2.582
12378-PeCDF	30.215	1.001	3.550e3	2.518e3	0.906	1.410	1.550	1670	1523	5.42e4	3.91e4	32.5	25.7	NO	MM	bd	1.014
23478-PeCDF	31.552	1.001	7.908e3	5.062e3	1.008	1.562	1.550	1670	1523	1.13e5	6.70e4	67.4	44.0	NO	db	db	2.045
123478-HxCDF	35.162	1.001	4.056e4	3.325e4	1.045	1.220	1.240	1253	1182	6.33e5	5.20e5	504.8	439.6	NO	dd	dd	13.623
234678-HxCDF	36.120	0.999	1.475e4	1.239e4	1.101	1.190	1.240	1253	1182	1.68e5	1.40e5	133.8	118.5	NO	bb	bd	5.012
123678-HxCDF	35.296	1.000	1.332e4	9.915e3	1.019	1.343	1.240	1253	1182	1.96e5	1.44e5	156.4	122.1	NO	dd	db	4.272
123789-HxCDF	37.157	1.000	6.179e3	5.127e3	0.992	1.205	1.240	1253	1182	8.89e4	7.91e4	71.0	66.9	NO	bb	bb	2.511
1234678-HpCDF	39.017	1.000	1.642e5	1.662e5	1.243	0.988	1.050	2019	1852	2.55e6	2.58e6	1264.9	1391.0	NO	bb	bb	69.490
1234789-HpCDF	41.290	1.000	1.516e4	1.638e4	1.192	0.925	1.050	2019	1852	2.18e5	2.15e5	108.1	116.3	NO	bb	bd	8.700
OCDF	45.613	1.006	2.815e5	3.130e5	1.303	0.899	0.890	1484	1612	3.16e6	3.44e6	2131.7	2134.3	NO	bd	dd	176.941
2378-TCDD	26.668	1.001	9.839e2	1.614e3	1.168	0.610	0.770	722	1237	1.48e4	2.22e4	20.5	18.0	YES	bd	bd	0.365
12378-PeCDD	31.798	1.000	5.020e3	3.958e3	1.152	1.268	1.550	1251	2061	7.13e4	4.43e4	57.0	21.5	YES	bb	bb	2.029
123478-HxCDD	36.277	1.001	5.271e3	4.314e3	0.934	1.222	1.240	1374	2139	9.23e4	7.62e4	67.2	35.6	NO	bd	bd	2.279
123678-HxCDD	36.388	1.000	2.398e4	2.015e4	0.950	1.190	1.240	1374	2139	4.00e5	3.08e5	291.3	144.2	NO	db	dd	9.707
123789-HxCDD	36.767	1.011	1.132e4	9.408e3	0.873	1.203	1.240	1374	2139	1.84e5	1.58e5	133.8	73.7	NO	bb	bb	5.112
1234678-HpCDD	40.544	1.001	4.444e5	4.251e5	1.268	1.046	1.050	2863	2910	6.60e6	6.22e6	2306.2	2136.4	NO	bb	bb	231.747
OCDD	45.366	1.000	2.331e6	2.701e6	1.089	0.863	0.890	3990	2609	2.86e7	3.25e7	7172.4	12445.2	NO	bb	bb	1791.403
13C-2378-TCDF	26.018	1.007	3.452e5	4.485e5	1.751	0.770	0.770	1671	1317	5.38e6	6.95e6	3217.5	5276.4	NO	bb	bb	72.602
13C-12378-PeCDF	30.182	1.168	4.015e5	2.594e5	1.442	1.548	1.550	1840	1850	6.13e6	3.99e6	3333.3	2158.3	NO	bb	bb	73.439
13C-23478-PeCDF	31.530	1.220	3.846e5	2.448e5	1.366	1.571	1.550	1840	1850	5.90e6	3.72e6	3205.9	2007.8	NO	bb	bb	73.831
13C-123478-HxCDF	35.140	0.956	1.720e5	3.462e5	1.095	0.497	0.510	1291	2341	2.67e6	5.39e6	2071.7	2303.4	NO	bd	bd	85.215
13C-123678-HxCDF	35.285	0.960	1.776e5	3.559e5	1.168	0.499	0.510	1291	2341	2.80e6	5.51e6	2171.3	2354.5	NO	db	db	82.235
13C-234678-HxCDF	36.143	0.983	1.657e5	3.262e5	1.023	0.508	0.510	1291	2341	2.66e6	5.21e6	2059.2	2225.1	NO	bb	bb	86.569
13C-123789-HxCDF	37.168	1.011	1.573e5	2.964e5	0.879	0.531	0.510	1291	2341	2.41e6	4.68e6	1866.2	2001.5	NO	bd	bb	92.936
13C-1234678-HpCDF	39.006	1.061	1.170e5	2.655e5	0.925	0.441	0.440	1476	1818	1.93e6	4.42e6	1307.3	2431.1	NO	bb	bb	74.397
13C-1234789-HpCDF	41.279	1.123	9.516e4	2.089e5	0.715	0.456	0.440	1476	1818	1.38e6	3.05e6	932.3	1676.3	NO	bb	bb	76.561
13C-1234-TCDD	25.836	0.000	2.709e5	3.532e5	1.000	0.767	0.770	1826	1280	4.23e6	5.54e6	2318.0	4326.6	NO	bb	bb	100.000
13C-2378-TCDD	26.653	1.032	2.642e5	3.455e5	1.081	0.765	0.770	1826	1280	4.08e6	5.31e6	2232.1	4149.2	NO	bb	bb	90.337
13C-12378-PeCDD	31.787	1.230	2.366e5	1.476e5	0.776	1.603	1.550	1191	752	3.56e6	2.19e6	2987.1	2908.7	NO	bb	bb	79.274
13C-123478-HxCDD	36.254	0.986	2.522e5	1.981e5	0.975	1.273	1.240	2604	1497	4.17e6	3.29e6	1600.0	2196.3	NO	bd	bd	83.134
13C-123678-HxCDD	36.377	0.990	2.667e5	2.117e5	1.067	1.260	1.240	2604	1497	4.16e6	3.28e6	1596.5	2188.9	NO	db	db	80.741
13C-1234678-HpCDD	40.521	1.102	1.518e5	1.440e5	0.582	1.054	1.050	1353	1303	2.30e6	2.20e6	1695.9	1687.3	NO	bb	bb	91.566
13C-OCDD	45.347	1.234	2.489e5	2.669e5	0.509	0.933	0.890	1542	1467	3.03e6	3.29e6	1963.4	2244.4	NO	bb	bb	182.548
13C-123789-HxCDD	36.756	0.000	3.094e5	2.461e5	1.000	1.257	1.240	2604	1497	4.93e6	3.93e6	1894.5	2627.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.668	1.032	2.656e5	1.120				1716		3.89e6		2264.3			bb		37.993

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:54:35 Pacific Standard Time

ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.510	0.865	4.094e3	4.643e3	1.300	0.882	0.770	1933	1191	4.98e4	5.72e4	25.8	48.0	NO	bb	bb	0.847
1289-TCDF	27.500	1.057	6.021e2	3.698e2	0.931	1.628	0.770	1933	1191	6.49e3	6.21e3	3.4	5.2	YES	dd	dd	0.131
13468-PECDF					1.308		1.550	680	999								
12389-PECDF					0.860		1.550	1670	1523								
123468-HXCDF	33.502	0.953	2.289e4	1.923e4	1.156	1.191	1.240	1253	1182	3.53e5	3.05e5	281.8	258.1	NO	bb	bb	7.028
1368-TCDD	23.795	0.893	6.751e3	7.902e3	1.151	0.854	0.770	722	1237	1.10e5	1.25e5	153.1	101.1	NO	bd	bb	2.088
1289-TCDD	27.273	1.023	3.263e2	3.029e2	0.950	1.077	0.770	722	1237	7.09e3	4.58e3	9.8	3.7	YES	bb	dd	0.109
12479-PECDD	29.101	0.916	2.189e4	1.488e4	2.164	1.471	1.550	1251	2061	2.24e5	1.47e5	178.8	71.5	NO	bb	bb	4.421
12389-PECDD	32.188	1.013	1.362e3	1.002e3	1.371	1.359	1.550	1251	2061	1.93e4	1.52e4	15.4	7.4	NO	bb	bb	0.449
124679-HXCDD	34.271	0.945	6.615e4	5.469e4	1.153	1.210	1.240	1374	2139	1.05e6	8.67e5	764.9	405.1	NO	bb	bb	23.283
1234679-HPCDD	39.474	0.974	4.846e5	4.660e5	1.473	1.040	1.050	2863	2910	7.67e6	7.33e6	2679.9	2520.0	NO	bb	bb	218.048
Total-tetrafurans			1.020e5		1.072			1933		1.46e6							28.490
Total-penta1			7.528e4					680		1.11e6							21.250
Total-pentafurans			9.864e4		0.924			1670		1.36e6							27.439
Total-hexafurans			3.443e5		1.063			1253		5.26e6							117.072
Total-heptafurans			5.665e5		1.218			2019		8.69e6							265.375
Total-Furans			1.468e6		1.090			1933		2.10e7							636.566
Total-tetradoxins			2.038e4		1.090			722		3.27e5							6.785
Total-pentadoxins			3.878e4		1.562			1251		4.76e5							9.170
Total-hexadoxins			1.941e5		0.978			1374		2.69e6							74.633
Total-heptadoxins			9.290e5		1.371			2863		1.43e7							449.794
Total-Dioxins			3.513e6		1.207			722		4.64e7							2331.785
Total-TEQ			4.981e6					722		6.74e7							2968.351
FUNCTION1 PFK			1.084e7					231038		3.87e7							
FUNCTION2 PFK			2.473e5					155005		4.54e6							0.000
FUNCTION3 PFK			4.189e5					155993		2.82e6							0.000
FUNCTION4 PFK			1.173e5					162252		5.85e5							
FUNCTION5 PFK			8.852e4					105156		2.99e6							
FUNCTION1 HXCD...			2.276e4					801		3.66e5							0.000
FUNCTION1 HPCD...			4.391e3					585		6.93e4							0.000
FUNCTION2 HPCD...			3.557e3					658		6.13e4							0.000
FUNCTION3 OCDPE			1.038e2					500		1.87e3							0.000
FUNCTION4 NCDPE			3.185e3					651		5.53e4							0.000
FUNCTION5 DCDPE			0.000e0					569		0.00e0							



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:54:35 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.69	5.287e3	7.265e3	1.072	0.73	0.77	34.3	YES	NO	dd	dd	1.475
2	Total-tetrafurans	24.26	3.912e3	5.536e3	1.072	0.71	0.77	31.3	YES	NO	db	db	1.110
3	Total-tetrafurans	24.02	1.164e4	1.532e4	1.072	0.76	0.77	88.0	YES	NO	dd	dd	3.169
4	Total-tetrafurans	23.86	2.504e3	3.601e3	1.072	0.70	0.77	20.0	YES	NO	dd	dd	0.717
5	Total-tetrafurans	23.76	6.863e3	9.472e3	1.072	0.72	0.77	51.6	YES	NO	dd	dd	1.920
6	Total-tetrafurans	23.54	4.464e3	6.327e3	1.072	0.71	0.77	21.6	YES	NO	dd	dd	1.268
7	Total-tetrafurans	23.36	1.032e4	1.479e4	1.072	0.70	0.77	70.9	YES	NO	bd	bd	2.951
8	Total-tetrafurans	22.77	3.645e3	5.058e3	1.072	0.72	0.77	30.8	YES	NO	bb	bb	1.023
9	1368-TCDF	22.51	4.094e3	4.643e3	1.300	0.88	0.77	25.8	YES	NO	bb	bb	0.847
10	Total-tetrafurans	27.08	2.566e3	3.175e3	1.072	0.81	0.77	21.0	YES	NO	bb	bb	0.675
11	Total-tetrafurans	26.41	7.033e3	1.032e4	1.072	0.68	0.77	58.9	YES	NO	dd	db	2.039
12	Total-tetrafurans	26.27	5.259e3	7.578e3	1.072	0.69	0.77	39.6	YES	NO	dd	dd	1.509
13	Total-tetrafurans	26.17	2.689e3	3.724e3	1.072	0.72	0.77	21.3	YES	NO	dd	dd	0.754
14	2378-TCDF	26.03	8.541e3	1.164e4	0.985	0.73	0.77	67.1	YES	NO	dd	dd	2.582
15	Total-tetrafurans	25.84	2.294e3	2.976e3	1.072	0.77	0.77	19.6	YES	NO	dd	dd	0.619
16	Total-tetrafurans	25.79	2.184e3	2.998e3	1.072	0.73	0.77	18.7	YES	NO	dd	dd	0.609
17	Total-tetrafurans	25.38	5.717e3	7.953e3	1.072	0.72	0.77	33.6	YES	NO	bd	bd	1.607
18	Total-tetrafurans	25.13	4.221e3	5.666e3	1.072	0.74	0.77	32.1	YES	NO	db	db	1.162
19	Total-tetrafurans	24.93	8.757e3	1.213e4	1.072	0.72	0.77	67.7	YES	NO	dd	dd	2.455

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.45	7.528e4	5.350e4		1.41	1.55	1628.9	YES	NO	bb	bb	21.250

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:54:35 Pacific Standard Time

**ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk****PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.90	3.412e3	2.345e3	0.924	1.45	1.55	37.4	YES	NO	db	dd	0.965
2	Total-pentafurans	29.84	7.600e3	5.023e3	0.924	1.51	1.55	63.4	YES	NO	dd	dd	2.116
3	Total-pentafurans	29.40	1.129e3	7.512e2	0.924	1.50	1.55	8.0	YES	NO	dd	dd	0.315
4	Total-pentafurans	29.25	5.284e3	3.772e3	0.924	1.40	1.55	50.8	YES	NO	dd	dd	1.518
5	Total-pentafurans	28.93	7.180e3	4.643e3	0.924	1.55	1.55	51.3	YES	NO	dd	dd	1.982
6	Total-pentafurans	28.51	5.975e2	3.574e2	0.924	1.67	1.55	5.5	YES	NO	bb	bb	0.160
7	23478-PeCDF	31.55	7.908e3	5.062e3	1.008	1.56	1.55	67.4	YES	NO	db	db	2.045
8	Total-pentafurans	31.40	9.082e3	5.890e3	0.924	1.54	1.55	80.1	YES	NO	dd	dd	2.510
9	Total-pentafurans	31.29	3.824e3	2.309e3	0.924	1.66	1.55	34.6	YES	NO	bd	bd	1.028
10	Total-pentafurans	30.52	1.750e3	1.240e3	0.924	1.41	1.55	15.7	YES	NO	db	db	0.501
11	Total-pentafurans	30.41	5.776e3	4.373e3	0.924	1.32	1.55	59.2	YES	NO	bd	dd	1.702
12	12378-PeCDF	30.22	3.550e3	2.518e3	0.906	1.41	1.55	32.5	YES	NO	MM	bd	1.014
13	Total-pentafurans	32.51	1.886e3	1.272e3	0.924	1.48	1.55	19.6	YES	NO	MM	MM	0.529
14	Total-pentafurans	29.12	3.966e4	2.626e4	0.924	1.51	1.55	289.5	YES	NO	MM	MM	11.051

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	36.12	1.475e4	1.239e4	1.101	1.19	1.24	133.8	YES	NO	bb	bd	5.012
2	Total-hexafurans	35.81	5.367e2	4.357e2	1.063	1.23	1.24	6.9	YES	NO	bb	bb	0.183
3	Total-hexafurans	35.63	1.192e3	8.918e2	1.063	1.34	1.24	14.3	YES	NO	db	db	0.393
4	123678-HxCDF	35.30	1.332e4	9.915e3	1.019	1.34	1.24	156.4	YES	NO	dd	db	4.272
5	123478-HxCDF	35.16	4.056e4	3.325e4	1.045	1.22	1.24	504.8	YES	NO	dd	dd	13.623
6	Total-hexafurans	35.01	5.177e3	4.392e3	1.063	1.18	1.24	68.5	YES	NO	bd	bd	1.803
7	Total-hexafurans	34.54	1.522e5	1.268e5	1.063	1.20	1.24	1918.2	YES	NO	bb	bd	52.563
8	Total-hexafurans	34.24	3.250e3	2.510e3	1.063	1.29	1.24	39.0	YES	NO	bb	bb	1.085
9	Total-hexafurans	33.97	6.399e2	5.544e2	1.063	1.15	1.24	8.5	YES	NO	bb	bb	0.225
10	Total-hexafurans	33.71	8.240e4	6.608e4	1.063	1.25	1.24	979.3	YES	NO	bb	bb	27.975
11	123468-HxCDF	33.50	2.289e4	1.923e4	1.156	1.19	1.24	281.8	YES	NO	bb	bb	7.028
12	123789-HxCDF	37.16	6.179e3	5.127e3	0.992	1.21	1.24	71.0	YES	NO	bb	bb	2.511
13	Total-hexafurans	36.63	1.214e3	9.032e2	1.063	1.34	1.24	13.1	YES	NO	bb	bb	0.399

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:54:35 Pacific Standard Time

ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.69	3.839e5	3.923e5	1.218	0.98	1.05	2902.3	YES	NO	bd	bd	185.687
2	Total-heptafurans	39.44	3.195e3	3.064e3	1.218	1.04	1.05	27.8	YES	NO	bb	db	1.497
3	1234678-HpCDF	39.02	1.642e5	1.662e5	1.243	0.99	1.05	1264.9	YES	NO	bb	bb	69.490
4	1234789-HpCDF	41.29	1.516e4	1.638e4	1.192	0.93	1.05	108.1	YES	NO	bb	bd	8.700

## Quantify Totals Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.69	5.287e3	7.265e3	1.072	0.73	0.77	34.3	YES	NO	dd	dd	1.475
2	Total-tetrafurans	24.26	3.912e3	5.536e3	1.072	0.71	0.77	31.3	YES	NO	db	db	1.110
3	Total-tetrafurans	24.02	1.164e4	1.532e4	1.072	0.76	0.77	88.0	YES	NO	dd	dd	3.169
4	Total-tetrafurans	23.86	2.504e3	3.601e3	1.072	0.70	0.77	20.0	YES	NO	dd	dd	0.717
5	Total-tetrafurans	23.76	6.863e3	9.472e3	1.072	0.72	0.77	51.6	YES	NO	dd	dd	1.920
6	Total-tetrafurans	23.54	4.464e3	6.327e3	1.072	0.71	0.77	21.6	YES	NO	dd	dd	1.268
7	Total-tetrafurans	23.36	1.032e4	1.479e4	1.072	0.70	0.77	70.9	YES	NO	bd	bd	2.951
8	Total-tetrafurans	22.77	3.645e3	5.058e3	1.072	0.72	0.77	30.8	YES	NO	bb	bb	1.023
9	1368-TCDF	22.51	4.094e3	4.643e3	1.300	0.88	0.77	25.8	YES	NO	bb	bb	0.847
10	Total-tetrafurans	27.08	2.566e3	3.175e3	1.072	0.81	0.77	21.0	YES	NO	bb	bb	0.675
11	Total-tetrafurans	26.41	7.033e3	1.032e4	1.072	0.68	0.77	58.9	YES	NO	dd	db	2.039
12	Total-tetrafurans	26.27	5.259e3	7.578e3	1.072	0.69	0.77	39.6	YES	NO	dd	dd	1.509
13	Total-tetrafurans	26.17	2.689e3	3.724e3	1.072	0.72	0.77	21.3	YES	NO	dd	dd	0.754
14	2378-TCDF	26.03	8.541e3	1.164e4	0.985	0.73	0.77	67.1	YES	NO	dd	dd	2.582
15	Total-tetrafurans	25.84	2.294e3	2.976e3	1.072	0.77	0.77	19.6	YES	NO	dd	dd	0.619
16	Total-tetrafurans	25.79	2.184e3	2.998e3	1.072	0.73	0.77	18.7	YES	NO	dd	dd	0.609
17	Total-tetrafurans	25.38	5.717e3	7.953e3	1.072	0.72	0.77	33.6	YES	NO	bd	bd	1.607
18	Total-tetrafurans	25.13	4.221e3	5.666e3	1.072	0.74	0.77	32.1	YES	NO	db	db	1.162
19	Total-tetrafurans	24.93	8.757e3	1.213e4	1.072	0.72	0.77	67.7	YES	NO	dd	dd	2.455
20	Total-pentafurans	29.90	3.412e3	2.345e3	0.924	1.45	1.55	37.4	YES	NO	db	dd	0.965
21	Total-pentafurans	29.84	7.600e3	5.023e3	0.924	1.51	1.55	63.4	YES	NO	dd	dd	2.116
22	Total-pentafurans	29.40	1.129e3	7.512e2	0.924	1.50	1.55	8.0	YES	NO	dd	dd	0.315
23	Total-pentafurans	29.25	5.284e3	3.772e3	0.924	1.40	1.55	50.8	YES	NO	dd	dd	1.518
24	Total-pentafurans	28.93	7.180e3	4.643e3	0.924	1.55	1.55	51.3	YES	NO	dd	dd	1.982
25	Total-pentafurans	28.51	5.975e2	3.574e2	0.924	1.67	1.55	5.5	YES	NO	bb	bb	0.160
26	23478-PeCDF	31.55	7.908e3	5.062e3	1.008	1.56	1.55	67.4	YES	NO	db	db	2.045
27	Total-pentafurans	31.40	9.082e3	5.890e3	0.924	1.54	1.55	80.1	YES	NO	dd	dd	2.510
28	Total-pentafurans	31.29	3.824e3	2.309e3	0.924	1.66	1.55	34.6	YES	NO	bd	bd	1.028
29	Total-pentafurans	30.52	1.750e3	1.240e3	0.924	1.41	1.55	15.7	YES	NO	db	db	0.501
30	Total-pentafurans	30.41	5.776e3	4.373e3	0.924	1.32	1.55	59.2	YES	NO	bd	dd	1.702
31	12378-PeCDF	30.22	3.550e3	2.518e3	0.906	1.41	1.55	32.5	YES	NO	MM	bd	1.014
32	234678-HxCDF	36.12	1.475e4	1.239e4	1.101	1.19	1.24	133.8	YES	NO	bb	bd	5.012
33	Total-hexafurans	35.81	5.367e2	4.357e2	1.063	1.23	1.24	6.9	YES	NO	bb	bb	0.183
34	Total-hexafurans	35.63	1.192e3	8.918e2	1.063	1.34	1.24	14.3	YES	NO	db	db	0.393
35	123678-HxCDF	35.30	1.332e4	9.915e3	1.019	1.34	1.24	156.4	YES	NO	dd	db	4.272
36	123478-HxCDF	35.16	4.056e4	3.325e4	1.045	1.22	1.24	504.8	YES	NO	dd	dd	13.623
37	Total-hexafurans	35.01	5.177e3	4.392e3	1.063	1.18	1.24	68.5	YES	NO	bd	bd	1.803

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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**ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexafurans	34.54	1.522e5	1.268e5	1.063	1.20	1.24	1918.2	YES	NO	bb	bd	52.563
39	Total-hexafurans	34.24	3.250e3	2.510e3	1.063	1.29	1.24	39.0	YES	NO	bb	bb	1.085
40	Total-hexafurans	33.97	6.399e2	5.544e2	1.063	1.15	1.24	8.5	YES	NO	bb	bb	0.225
41	Total-hexafurans	33.71	8.240e4	6.608e4	1.063	1.25	1.24	979.3	YES	NO	bb	bb	27.975
42	123468-HxCDF	33.50	2.289e4	1.923e4	1.156	1.19	1.24	281.8	YES	NO	bb	bb	7.028
43	123789-HxCDF	37.16	6.179e3	5.127e3	0.992	1.21	1.24	71.0	YES	NO	bb	bb	2.511
44	Total-hexafurans	36.63	1.214e3	9.032e2	1.063	1.34	1.24	13.1	YES	NO	bb	bb	0.399
45	Total-heptafurans	39.69	3.839e5	3.923e5	1.218	0.98	1.05	2902.3	YES	NO	bd	bd	185.687
46	Total-heptafurans	39.44	3.195e3	3.064e3	1.218	1.04	1.05	27.8	YES	NO	bb	db	1.497
47	1234678-HpCDF	39.02	1.642e5	1.662e5	1.243	0.99	1.05	1264.9	YES	NO	bb	bb	69.490
48	1234789-HpCDF	41.29	1.516e4	1.638e4	1.192	0.93	1.05	108.1	YES	NO	bb	bd	8.700
49	OCDF	45.61	2.815e5	3.130e5	1.303	0.90	0.89	2131.7	YES	NO	bd	dd	176.941
50	Total-penta1	27.45	7.528e4	5.350e4		1.41	1.55	1628.9	YES	NO	bb	bb	21.250
51	Total-pentafurans	32.51	1.886e3	1.272e3	0.924	1.48	1.55	19.6	YES	NO	MM	MM	0.529
52	Total-pentafurans	29.12	3.966e4	2.626e4	0.924	1.51	1.55	289.5	YES	NO	MM	MM	11.051

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.28	2.876e3	3.861e3	1.090	0.74	0.77	66.3	YES	NO	bb	bd	1.014
2	Total-tetradoxins	25.00	1.978e3	2.775e3	1.090	0.71	0.77	43.5	YES	NO	bb	dd	0.715
3	Total-tetradoxins	24.78	9.139e2	1.102e3	1.090	0.83	0.77	21.5	YES	NO	bb	bd	0.303
4	Total-tetradoxins	24.28	1.171e3	1.443e3	1.090	0.81	0.77	26.0	YES	NO	bb	bb	0.394
5	Total-tetradoxins	24.07	4.522e3	5.620e3	1.090	0.80	0.77	100.2	YES	NO	bb	bb	1.526
6	1368-TCDD	23.80	6.751e3	7.902e3	1.151	0.85	0.77	153.1	YES	NO	bd	bb	2.088
7	Total-tetradoxins	26.80	7.399e2	9.742e2	1.090	0.76	0.77	16.3	YES	NO	db	db	0.258
8	Total-tetradoxins	25.85	1.425e3	1.800e3	1.090	0.79	0.77	26.8	YES	NO	dd	dd	0.485

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.19	1.362e3	1.002e3	1.371	1.36	1.55	15.4	YES	NO	bb	bb	0.449
2	Total-pentadoxins	31.13	2.736e3	1.803e3	1.562	1.52	1.55	27.6	YES	NO	bb	bd	0.756
3	Total-pentadoxins	30.55	4.151e3	3.101e3	1.562	1.34	1.55	52.0	YES	NO	bd	dd	1.208
4	Total-pentadoxins	30.19	6.244e3	3.816e3	1.562	1.64	1.55	75.4	YES	NO	bd	bb	1.676
5	Total-pentadoxins	29.58	2.402e3	1.551e3	1.562	1.55	1.55	31.6	YES	NO	bb	bb	0.659
6	12479-PECDD	29.10	2.189e4	1.488e4	2.164	1.47	1.55	178.8	YES	NO	bb	bb	4.421

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	35.04	1.519e4	1.229e4	0.978	1.24	1.24	183.1	YES	NO	bd	bb	6.053
2	124679-HxCDD	34.27	6.615e4	5.469e4	1.153	1.21	1.24	764.9	YES	NO	bb	bb	23.283
3	123789-HxCDD	36.77	1.132e4	9.408e3	0.873	1.20	1.24	133.8	YES	NO	bb	bb	5.112
4	123678-HxCDD	36.39	2.398e4	2.015e4	0.950	1.19	1.24	291.3	YES	NO	db	dd	9.707
5	123478-HxCDD	36.28	5.271e3	4.314e3	0.934	1.22	1.24	67.2	YES	NO	bd	bd	2.279
6	Total-hexadioxins	35.40	7.214e4	5.585e4	0.978	1.29	1.24	519.4	YES	NO	bd	bd	28.199

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.54	4.444e5	4.251e5	1.268	1.05	1.05	2306.2	YES	NO	bb	bb	231.747
2	1234679-HPCDD	39.47	4.846e5	4.660e5	1.473	1.04	1.05	2679.9	YES	NO	bb	bb	218.048

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.28	2.876e3	3.861e3	1.090	0.74	0.77	66.3	YES	NO	bb	bd	1.014
2	Total-tetradoxins	25.00	1.978e3	2.775e3	1.090	0.71	0.77	43.5	YES	NO	bb	dd	0.715
3	Total-tetradoxins	24.78	9.139e2	1.102e3	1.090	0.83	0.77	21.5	YES	NO	bb	bd	0.303
4	Total-tetradoxins	24.28	1.171e3	1.443e3	1.090	0.81	0.77	26.0	YES	NO	bb	bb	0.394
5	Total-tetradoxins	24.07	4.522e3	5.620e3	1.090	0.80	0.77	100.2	YES	NO	bb	bb	1.526
6	1368-TCDD	23.80	6.751e3	7.902e3	1.151	0.85	0.77	153.1	YES	NO	bd	bb	2.088
7	Total-tetradoxins	26.80	7.399e2	9.742e2	1.090	0.76	0.77	16.3	YES	NO	db	db	0.258
8	Total-tetradoxins	25.85	1.425e3	1.800e3	1.090	0.79	0.77	26.8	YES	NO	dd	dd	0.485
9	12389-PECDD	32.19	1.362e3	1.002e3	1.371	1.36	1.55	15.4	YES	NO	bb	bb	0.449
10	Total-pentadoxins	31.13	2.736e3	1.803e3	1.562	1.52	1.55	27.6	YES	NO	bb	bd	0.756
11	Total-pentadoxins	30.55	4.151e3	3.101e3	1.562	1.34	1.55	52.0	YES	NO	bd	dd	1.208
12	Total-pentadoxins	30.19	6.244e3	3.816e3	1.562	1.64	1.55	75.4	YES	NO	bd	bb	1.676
13	Total-pentadoxins	29.58	2.402e3	1.551e3	1.562	1.55	1.55	31.6	YES	NO	bb	bb	0.659
14	12479-PECDD	29.10	2.189e4	1.488e4	2.164	1.47	1.55	178.8	YES	NO	bb	bb	4.421
15	Total-hexadoxins	35.04	1.519e4	1.229e4	0.978	1.24	1.24	183.1	YES	NO	bd	bb	6.053
16	124679-HXCDD	34.27	6.615e4	5.469e4	1.153	1.21	1.24	764.9	YES	NO	bb	bb	23.283
17	123789-HxCDD	36.77	1.132e4	9.408e3	0.873	1.20	1.24	133.8	YES	NO	bb	bb	5.112
18	123678-HxCDD	36.39	2.398e4	2.015e4	0.950	1.19	1.24	291.3	YES	NO	db	dd	9.707
19	123478-HxCDD	36.28	5.271e3	4.314e3	0.934	1.22	1.24	67.2	YES	NO	bd	bd	2.279
20	Total-hexadoxins	35.40	7.214e4	5.585e4	0.978	1.29	1.24	519.4	YES	NO	bd	bd	28.199
21	1234678-HpCDD	40.54	4.444e5	4.251e5	1.268	1.05	1.05	2306.2	YES	NO	bb	bb	231.747
22	1234679-HPCDD	39.47	4.846e5	4.660e5	1.473	1.04	1.05	2679.9	YES	NO	bb	bb	218.048
23	OCDD	45.37	2.331e6	2.701e6	1.089	0.86	0.89	7172.4	YES	NO	bb	bb	1791.4...

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.69	5.287e3	7.265e3	1.072	0.73	0.77	34.3	YES	NO	dd	dd	1.475
2	Total-tetrafurans	24.26	3.912e3	5.536e3	1.072	0.71	0.77	31.3	YES	NO	db	db	1.110
3	Total-tetrafurans	24.02	1.164e4	1.532e4	1.072	0.76	0.77	88.0	YES	NO	dd	dd	3.169
4	Total-tetrafurans	23.86	2.504e3	3.601e3	1.072	0.70	0.77	20.0	YES	NO	dd	dd	0.717
5	Total-tetrafurans	23.76	6.863e3	9.472e3	1.072	0.72	0.77	51.6	YES	NO	dd	dd	1.920
6	Total-tetrafurans	23.54	4.464e3	6.327e3	1.072	0.71	0.77	21.6	YES	NO	dd	dd	1.268
7	Total-tetrafurans	23.36	1.032e4	1.479e4	1.072	0.70	0.77	70.9	YES	NO	bd	bd	2.951
8	Total-tetrafurans	22.77	3.645e3	5.058e3	1.072	0.72	0.77	30.8	YES	NO	bb	bb	1.023
9	1368-TCDF	22.51	4.094e3	4.643e3	1.300	0.88	0.77	25.8	YES	NO	bb	bb	0.847
10	Total-tetrafurans	27.08	2.566e3	3.175e3	1.072	0.81	0.77	21.0	YES	NO	bb	bb	0.675
11	Total-tetrafurans	26.41	7.033e3	1.032e4	1.072	0.68	0.77	58.9	YES	NO	dd	db	2.039
12	Total-tetrafurans	26.27	5.259e3	7.578e3	1.072	0.69	0.77	39.6	YES	NO	dd	dd	1.509
13	Total-tetrafurans	26.17	2.689e3	3.724e3	1.072	0.72	0.77	21.3	YES	NO	dd	dd	0.754
14	2378-TCDF	26.03	8.541e3	1.164e4	0.985	0.73	0.77	67.1	YES	NO	dd	dd	2.582
15	Total-tetrafurans	25.84	2.294e3	2.976e3	1.072	0.77	0.77	19.6	YES	NO	dd	dd	0.619
16	Total-tetrafurans	25.79	2.184e3	2.998e3	1.072	0.73	0.77	18.7	YES	NO	dd	dd	0.609
17	Total-tetrafurans	25.38	5.717e3	7.953e3	1.072	0.72	0.77	33.6	YES	NO	bd	bd	1.607
18	Total-tetrafurans	25.13	4.221e3	5.666e3	1.072	0.74	0.77	32.1	YES	NO	db	db	1.162
19	Total-tetrafurans	24.93	8.757e3	1.213e4	1.072	0.72	0.77	67.7	YES	NO	dd	dd	2.455
20	Total-pentafurans	29.90	3.412e3	2.345e3	0.924	1.45	1.55	37.4	YES	NO	db	dd	0.965
21	Total-pentafurans	29.84	7.600e3	5.023e3	0.924	1.51	1.55	63.4	YES	NO	dd	dd	2.116
22	Total-pentafurans	29.40	1.129e3	7.512e2	0.924	1.50	1.55	8.0	YES	NO	dd	dd	0.315
23	Total-pentafurans	29.25	5.284e3	3.772e3	0.924	1.40	1.55	50.8	YES	NO	dd	dd	1.518
24	Total-pentafurans	28.93	7.180e3	4.643e3	0.924	1.55	1.55	51.3	YES	NO	dd	dd	1.982
25	Total-pentafurans	28.51	5.975e2	3.574e2	0.924	1.67	1.55	5.5	YES	NO	bb	bb	0.160
26	23478-PeCDF	31.55	7.908e3	5.062e3	1.008	1.56	1.55	67.4	YES	NO	db	db	2.045
27	Total-pentafurans	31.40	9.082e3	5.890e3	0.924	1.54	1.55	80.1	YES	NO	dd	dd	2.510
28	Total-pentafurans	31.29	3.824e3	2.309e3	0.924	1.66	1.55	34.6	YES	NO	bd	bd	1.028
29	Total-pentafurans	30.52	1.750e3	1.240e3	0.924	1.41	1.55	15.7	YES	NO	db	db	0.501
30	Total-pentafurans	30.41	5.776e3	4.373e3	0.924	1.32	1.55	59.2	YES	NO	bd	dd	1.702
31	12378-PeCDF	30.22	3.550e3	2.518e3	0.906	1.41	1.55	32.5	YES	NO	MM	bd	1.014
32	234678-HxCDF	36.12	1.475e4	1.239e4	1.101	1.19	1.24	133.8	YES	NO	bb	bd	5.012
33	Total-hexafurans	35.81	5.367e2	4.357e2	1.063	1.23	1.24	6.9	YES	NO	bb	bb	0.183
34	Total-hexafurans	35.63	1.192e3	8.918e2	1.063	1.34	1.24	14.3	YES	NO	db	db	0.393
35	123678-HxCDF	35.30	1.332e4	9.915e3	1.019	1.34	1.24	156.4	YES	NO	dd	db	4.272
36	123478-HxCDF	35.16	4.056e4	3.325e4	1.045	1.22	1.24	504.8	YES	NO	dd	dd	13.623
37	Total-hexafurans	35.01	5.177e3	4.392e3	1.063	1.18	1.24	68.5	YES	NO	bd	bd	1.803



## Quantify Totals Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:54:35 Pacific Standard Time

ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexafurans	34.54	1.522e5	1.268e5	1.063	1.20	1.24	1918.2	YES	NO	bb	bd	52.563
39	Total-hexafurans	34.24	3.250e3	2.510e3	1.063	1.29	1.24	39.0	YES	NO	bb	bb	1.085
40	Total-hexafurans	33.97	6.399e2	5.544e2	1.063	1.15	1.24	8.5	YES	NO	bb	bb	0.225
41	Total-hexafurans	33.71	8.240e4	6.608e4	1.063	1.25	1.24	979.3	YES	NO	bb	bb	27.975
42	123468-HxCDF	33.50	2.289e4	1.923e4	1.156	1.19	1.24	281.8	YES	NO	bb	bb	7.028
43	123789-HxCDF	37.16	6.179e3	5.127e3	0.992	1.21	1.24	71.0	YES	NO	bb	bb	2.511
44	Total-hexafurans	36.63	1.214e3	9.032e2	1.063	1.34	1.24	13.1	YES	NO	bb	bb	0.399
45	Total-heptafurans	39.69	3.839e5	3.923e5	1.218	0.98	1.05	2902.3	YES	NO	bd	bd	185.687
46	Total-heptafurans	39.44	3.195e3	3.064e3	1.218	1.04	1.05	27.8	YES	NO	bb	db	1.497
47	1234678-HpCDF	39.02	1.642e5	1.662e5	1.243	0.99	1.05	1264.9	YES	NO	bb	bb	69.490
48	1234789-HpCDF	41.29	1.516e4	1.638e4	1.192	0.93	1.05	108.1	YES	NO	bb	bd	8.700
49	OCDF	45.61	2.815e5	3.130e5	1.303	0.90	0.89	2131.7	YES	NO	bd	dd	176.941
50	Total-penta1	27.45	7.528e4	5.350e4		1.41	1.55	1628.9	YES	NO	bb	bb	21.250
51	Total-pentafurans	32.51	1.886e3	1.272e3	0.924	1.48	1.55	19.6	YES	NO	MM	MM	0.529
52	Total-pentafurans	29.12	3.966e4	2.626e4	0.924	1.51	1.55	289.5	YES	NO	MM	MM	11.051
53	Total-tetradiioxins	25.28	2.876e3	3.861e3	1.090	0.74	0.77	66.3	YES	NO	bb	bd	1.014
54	Total-tetradiioxins	25.00	1.978e3	2.775e3	1.090	0.71	0.77	43.5	YES	NO	bb	dd	0.715
55	Total-tetradiioxins	24.78	9.139e2	1.102e3	1.090	0.83	0.77	21.5	YES	NO	bb	bd	0.303
56	Total-tetradiioxins	24.28	1.171e3	1.443e3	1.090	0.81	0.77	26.0	YES	NO	bb	bb	0.394
57	Total-tetradiioxins	24.07	4.522e3	5.620e3	1.090	0.80	0.77	100.2	YES	NO	bb	bb	1.526
58	1368-TCDD	23.80	6.751e3	7.902e3	1.151	0.85	0.77	153.1	YES	NO	bd	bb	2.088
59	Total-tetradiioxins	26.80	7.399e2	9.742e2	1.090	0.76	0.77	16.3	YES	NO	db	db	0.258
60	Total-tetradiioxins	25.85	1.425e3	1.800e3	1.090	0.79	0.77	26.8	YES	NO	dd	dd	0.485
61	12389-PECDD	32.19	1.362e3	1.002e3	1.371	1.36	1.55	15.4	YES	NO	bb	bb	0.449
62	Total-pentadiioxins	31.13	2.736e3	1.803e3	1.562	1.52	1.55	27.6	YES	NO	bb	bd	0.756
63	Total-pentadiioxins	30.55	4.151e3	3.101e3	1.562	1.34	1.55	52.0	YES	NO	bd	dd	1.208
64	Total-pentadiioxins	30.19	6.244e3	3.816e3	1.562	1.64	1.55	75.4	YES	NO	bd	bb	1.676
65	Total-pentadiioxins	29.58	2.402e3	1.551e3	1.562	1.55	1.55	31.6	YES	NO	bb	bb	0.659
66	12479-PECDD	29.10	2.189e4	1.488e4	2.164	1.47	1.55	178.8	YES	NO	bb	bb	4.421
67	Total-hexadiioxins	35.04	1.519e4	1.229e4	0.978	1.24	1.24	183.1	YES	NO	bd	bb	6.053
68	124679-HxCDD	34.27	6.615e4	5.469e4	1.153	1.21	1.24	764.9	YES	NO	bb	bb	23.283
69	123789-HxCDD	36.77	1.132e4	9.408e3	0.873	1.20	1.24	133.8	YES	NO	bb	bb	5.112
70	123678-HxCDD	36.39	2.398e4	2.015e4	0.950	1.19	1.24	291.3	YES	NO	db	dd	9.707
71	123478-HxCDD	36.28	5.271e3	4.314e3	0.934	1.22	1.24	67.2	YES	NO	bd	bd	2.279
72	Total-hexadiioxins	35.40	7.214e4	5.585e4	0.978	1.29	1.24	519.4	YES	NO	bd	bd	28.199
73	1234678-HpCDD	40.54	4.444e5	4.251e5	1.268	1.05	1.05	2306.2	YES	NO	bb	bb	231.747
74	1234679-HPCDD	39.47	4.846e5	4.660e5	1.473	1.04	1.05	2679.9	YES	NO	bb	bb	218.048

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk****TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
75	OCDD	45.37	2.331e6	2.701e6	1.089	0.86	0.89	7172.4	YES	NO	bb	bb	1791.4...

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.56	7.037e5					4.8	YES		bb		
2	FUNCTION1 PFK	26.38	2.547e4					2.2	NO		bb		
3	FUNCTION1 PFK	24.91	1.970e4					2.3	NO		bb		
4	FUNCTION1 PFK	24.01	1.001e6					15.9	YES		db		
5	FUNCTION1 PFK	23.81	3.205e5					21.6	YES		dd		
6	FUNCTION1 PFK	23.63	2.028e6					31.7	YES		bd		
7	FUNCTION1 PFK	23.40	3.538e5					26.0	YES		db		
8	FUNCTION1 PFK	23.04	5.175e6					30.5	YES		dd		
9	FUNCTION1 PFK	22.46	5.150e5					19.1	YES		bd		
10	FUNCTION1 PFK	22.18	7.020e5					13.2	YES		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.93	6.024e4					3.1	YES		bb		0.000
2	FUNCTION2 PFK	32.54	3.698e3					1.0	NO		bb		0.000
3	FUNCTION2 PFK	32.35	2.467e3					0.8	NO		bb		0.000
4	FUNCTION2 PFK	31.63	6.884e3					1.6	NO		db		0.000
5	FUNCTION2 PFK	31.59	6.939e3					1.5	NO		bd		0.000
6	FUNCTION2 PFK	31.53	1.011e3					0.6	NO		bb		0.000
7	FUNCTION2 PFK	30.58	5.662e3					1.5	NO		bb		0.000
8	FUNCTION2 PFK	30.05	1.631e4					2.0	NO		db		0.000
9	FUNCTION2 PFK	29.97	1.411e4					2.2	NO		dd		0.000
10	FUNCTION2 PFK	29.90	6.394e3					1.5	NO		bd		0.000
11	FUNCTION2 PFK	29.76	4.358e4					3.3	YES		db		0.000
12	FUNCTION2 PFK	29.64	2.503e4					3.2	YES		bd		0.000
13	FUNCTION2 PFK	28.63	7.525e3					1.6	NO		bb		0.000
14	FUNCTION2 PFK	28.27	4.748e4					5.4	YES		bb		0.000

ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.10	4.089e5					15.5	YES		bb		0.000
2	FUNCTION3 PFK	36.20	1.005e4					2.6	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.05	1.173e5					3.6	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.99	2.751e3					1.2	NO		bd		
2	FUNCTION5 PFK	44.63	2.480e3					1.3	NO		bb		
3	FUNCTION5 PFK	44.49	4.919e3					1.5	NO		bb		
4	FUNCTION5 PFK	44.42	5.648e3					1.5	NO		bb		
5	FUNCTION5 PFK	44.38	8.808e2					0.6	NO		bb		
6	FUNCTION5 PFK	44.02	3.387e3					1.3	NO		bb		
7	FUNCTION5 PFK	43.83	1.797e3					1.0	NO		bb		
8	FUNCTION5 PFK	43.66	5.074e3					1.7	NO		bb		
9	FUNCTION5 PFK	43.59	2.903e3					1.4	NO		bb		
10	FUNCTION5 PFK	43.44	1.012e4					3.3	YES		db		
11	FUNCTION5 PFK	43.40	1.263e4					4.1	YES		dd		
12	FUNCTION5 PFK	43.38	1.864e4					3.1	YES		bd		
13	FUNCTION5 PFK	46.30	6.747e2					0.7	NO		bb		
14	FUNCTION5 PFK	45.90	3.528e3					1.4	NO		bb		
15	FUNCTION5 PFK	45.38	8.801e3					1.8	NO		bb		
16	FUNCTION5 PFK	45.33	7.024e2					0.7	NO		bb		
17	FUNCTION5 PFK	45.24	4.588e2					0.5	NO		bb		
18	FUNCTION5 PFK	45.04	3.129e3					1.3	NO		db		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

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**ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk****ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.94	1.339e3					26.1	YES		bb		0.000
2	FUNCTION1 HXCD...	27.06	2.170e3					42.7	YES		bb		0.000
3	FUNCTION1 HXCD...	26.41	7.288e3					143.9	YES		bb		0.000
4	FUNCTION1 HXCD...	26.18	1.152e3					24.5	YES		db		0.000
5	FUNCTION1 HXCD...	26.03	3.564e3					71.4	YES		bd		0.000
6	FUNCTION1 HXCD...	25.37	2.605e3					55.1	YES		bb		0.000
7	FUNCTION1 HXCD...	24.02	4.050e3					81.2	YES		bb		0.000
8	FUNCTION1 HXCD...	22.57	4.515e2					8.0	YES		bb		0.000
9	FUNCTION1 HXCD...	21.36	1.456e2					4.3	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	24.58	1.994e2					2.5	NO		db		0.000
2	FUNCTION1 HPCD...	24.37	1.904e2					5.8	YES		bd		0.000
3	FUNCTION1 HPCD...	24.04	1.145e2					1.9	NO		bb		0.000
4	FUNCTION1 HPCD...	23.63	1.218e3					34.2	YES		bb		0.000
5	FUNCTION1 HPCD...	22.68	1.436e2					3.7	YES		db		0.000
6	FUNCTION1 HPCD...	22.60	2.306e2					6.3	YES		bd		0.000
7	FUNCTION1 HPCD...	22.30	9.680e2					27.3	YES		bb		0.000
8	FUNCTION1 HPCD...	21.81	9.081e1					2.0	NO		bb		0.000
9	FUNCTION1 HPCD...	21.15	1.235e3					34.8	YES		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.51	1.082e3					26.2	YES		bb		0.000
2	FUNCTION2 HPCD...	31.40	2.546e2					5.1	YES		bb		0.000
3	FUNCTION2 HPCD...	29.38	1.585e2					4.9	YES		bb		0.000
4	FUNCTION2 HPCD...	29.24	2.063e3					56.9	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	34.49	1.038e2					3.7	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.76	2.240e2					6.8	YES		db		0.000
2	FUNCTION4 NCDPE	38.67	2.961e3					78.1	YES		bd		0.000

**ETHERS6**

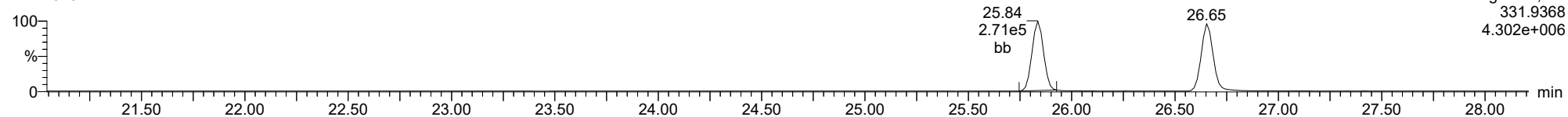
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

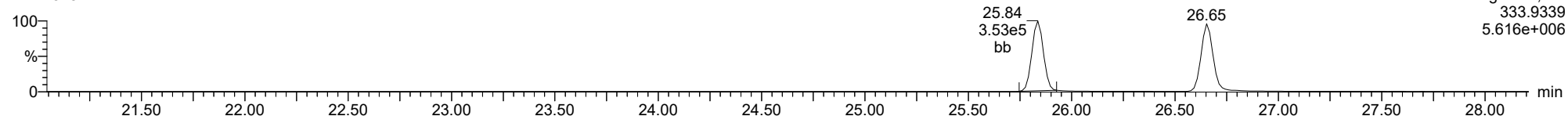
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22122818



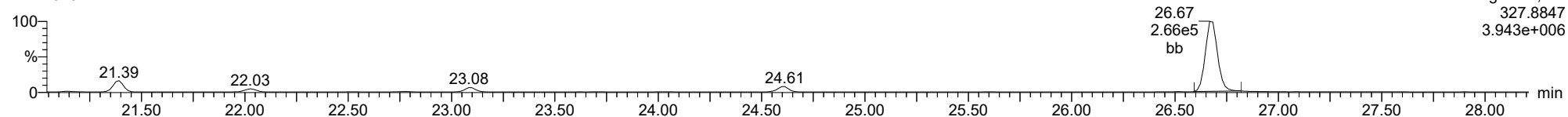
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22122818



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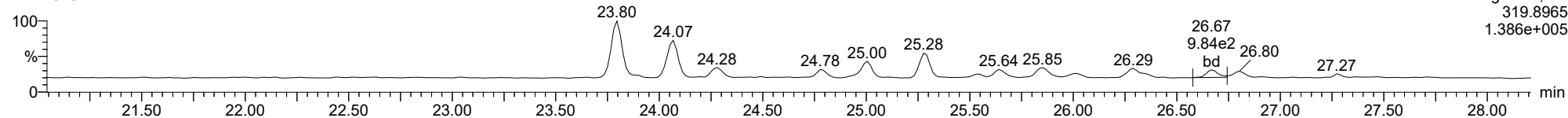
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

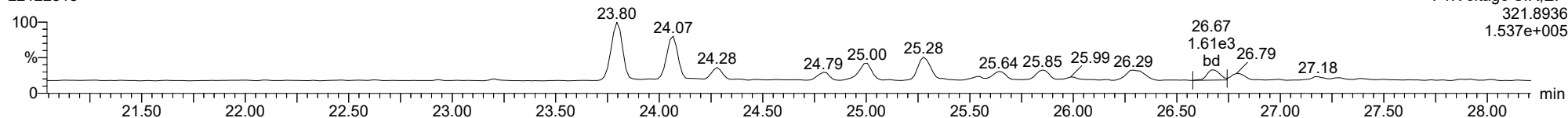
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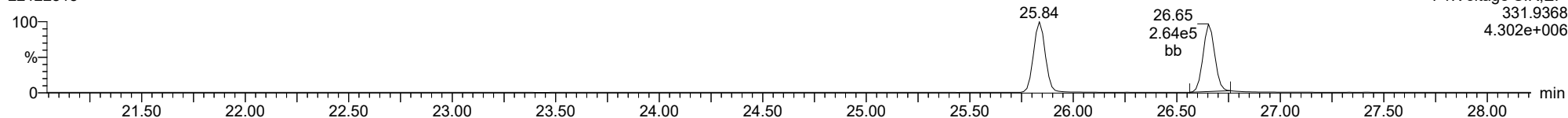
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22122818



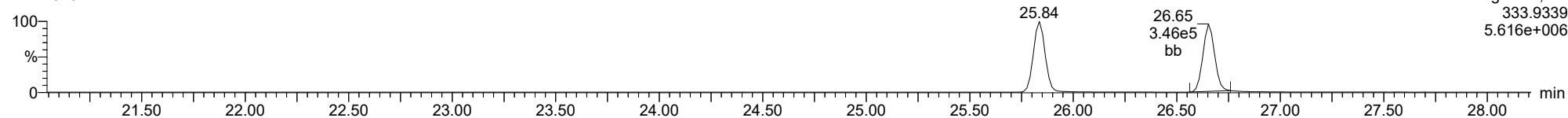
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22122818



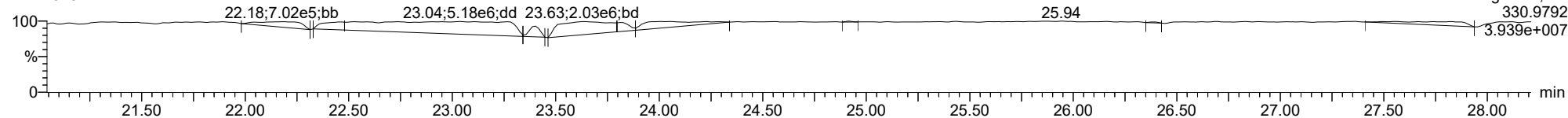
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22122818



**FUNCTION1 PFK**

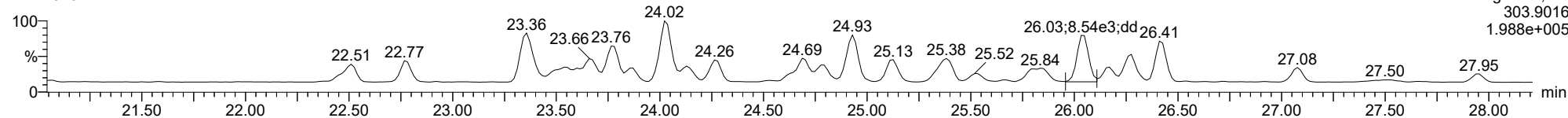
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

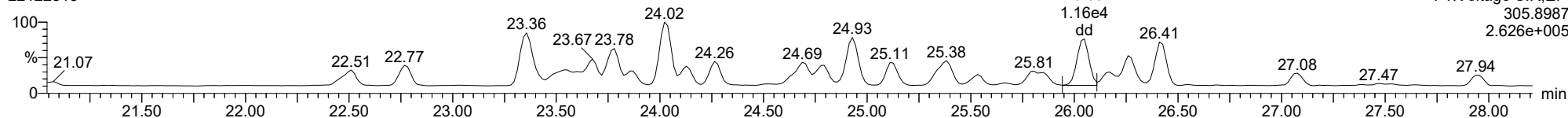
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22122818



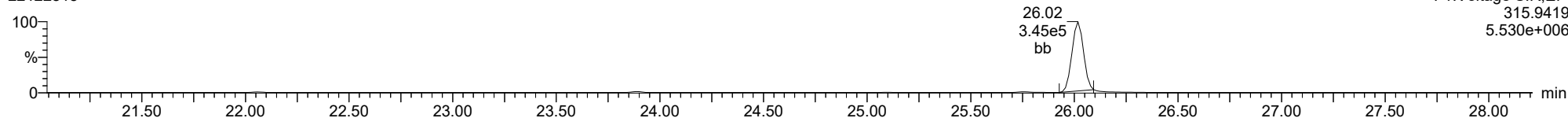
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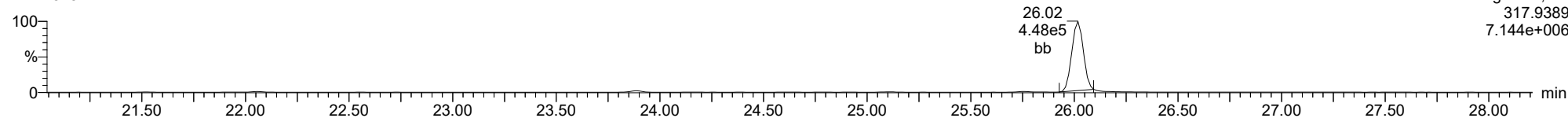
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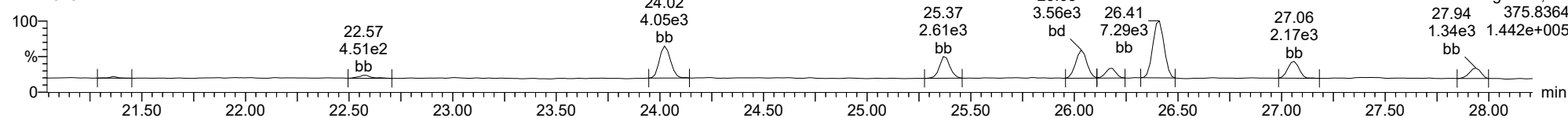
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22122818



**FUNCTION1 HXCDPE**

22122818

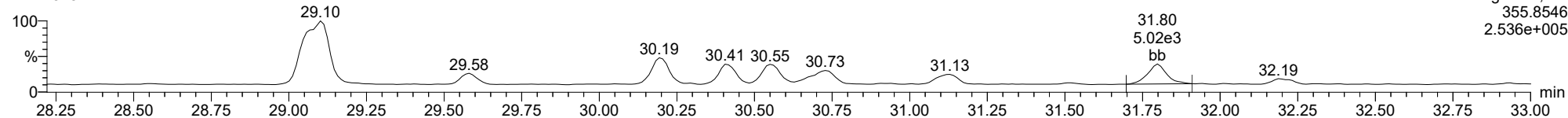




ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

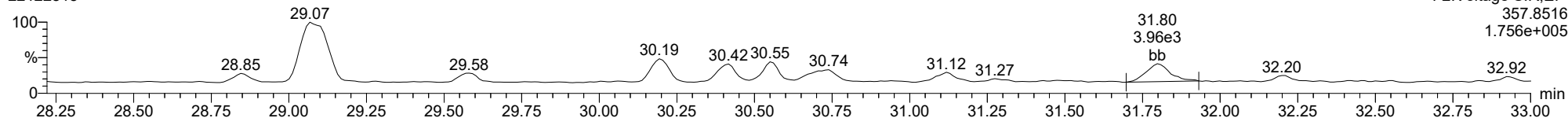
**12378-PeCDD**

22122818



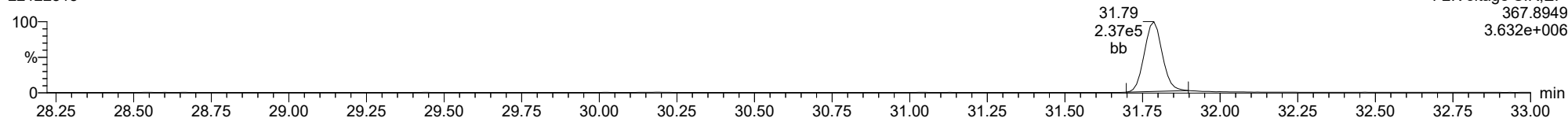
**12378-PeCDD**

22122818



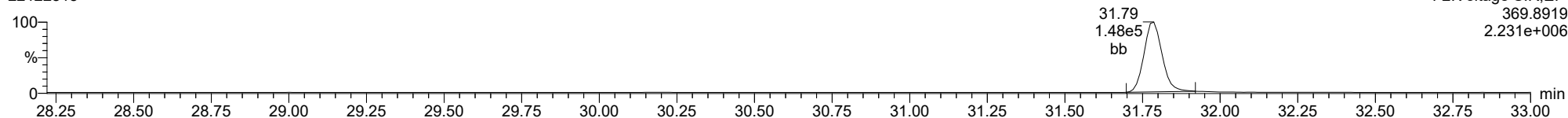
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22122818



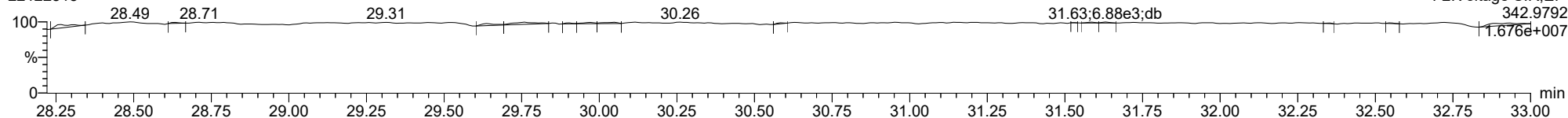
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22122818



**FUNCTION2 PFK**

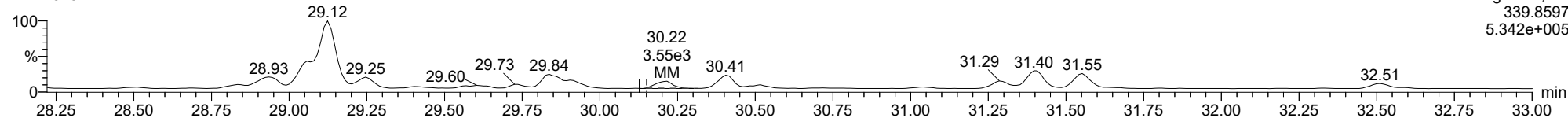
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ID: **BLK0419-DUP1**, Name: **22122818**, Date: **29-Dec-2022**, Time: **00:53:19**, Conditions: **AUTOSPEC01**, User: **pk**

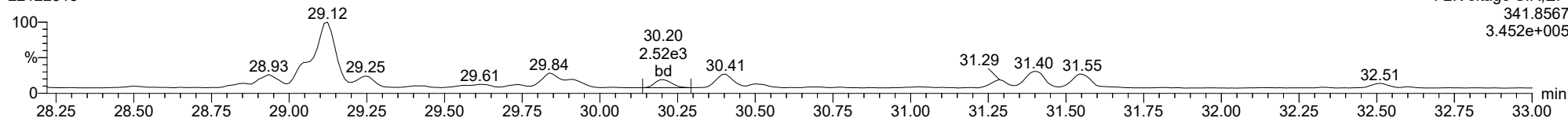
**12378-PeCDF**

22122818



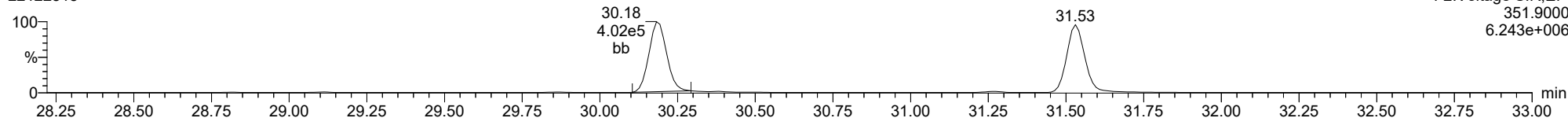
**12378-PeCDF**

22122818



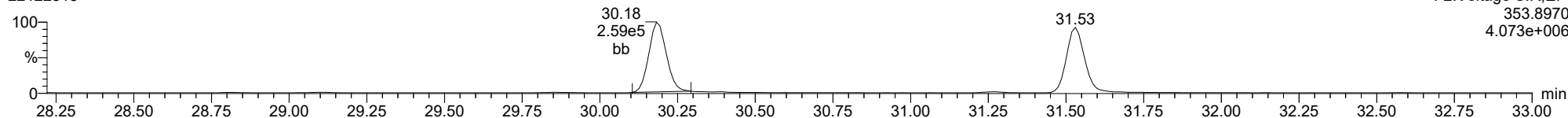
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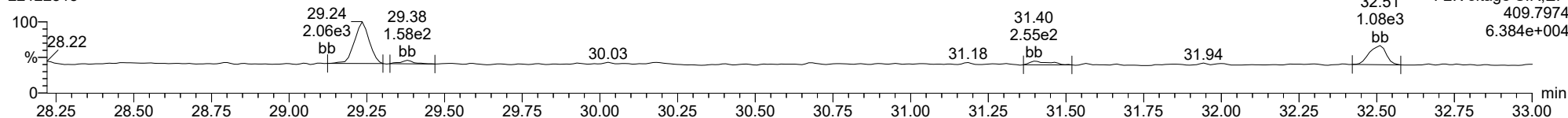
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**FUNCTION2 HPCDPE**

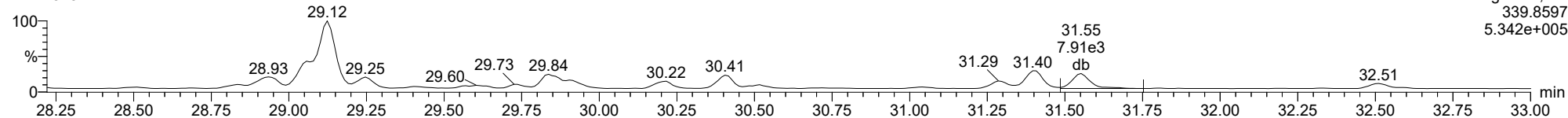
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

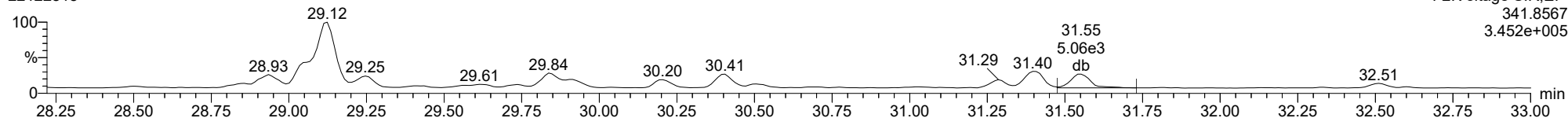
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22122818



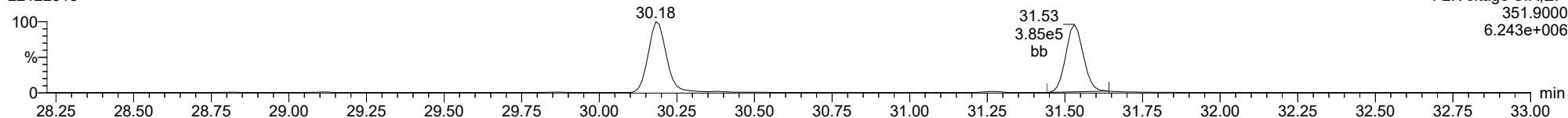
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22122818



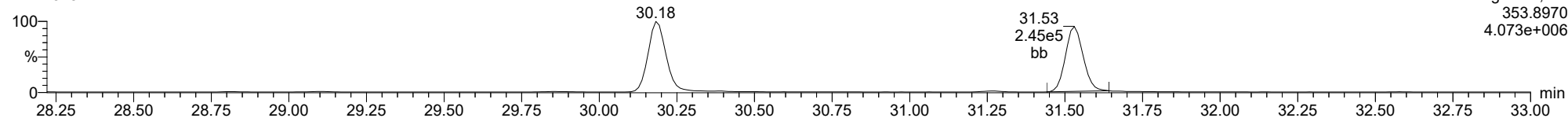
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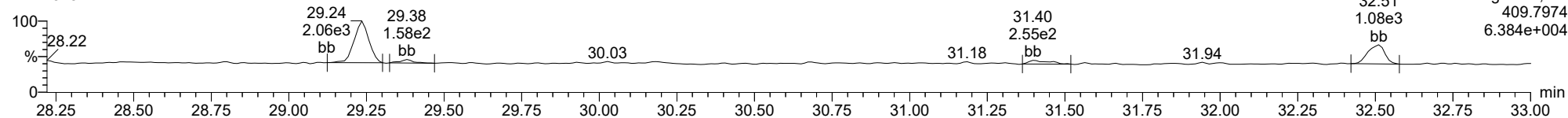
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**FUNCTION2 HPCDPE**

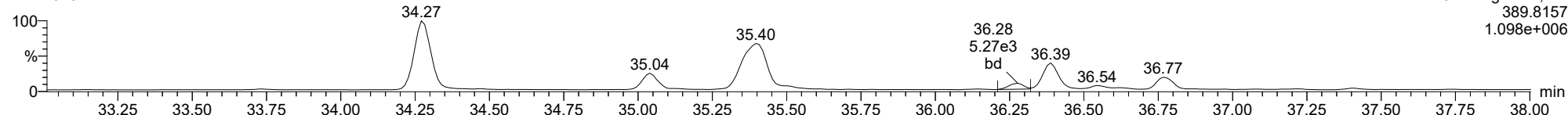
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

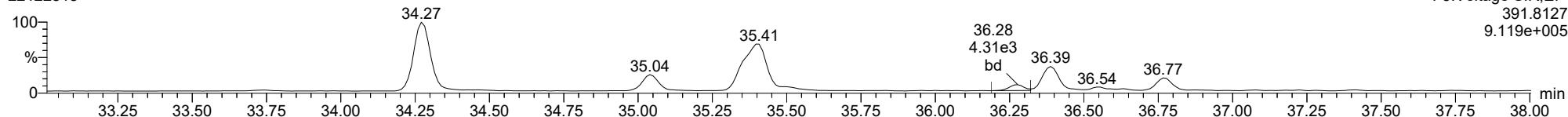
123478-HxCDD

22122818



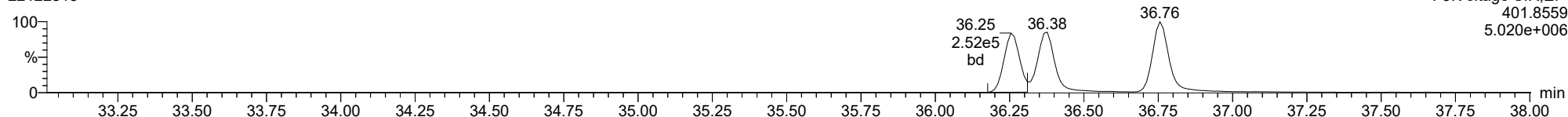
123478-HxCDD

22122818



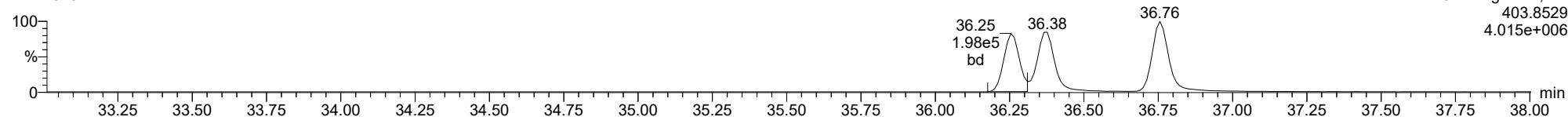
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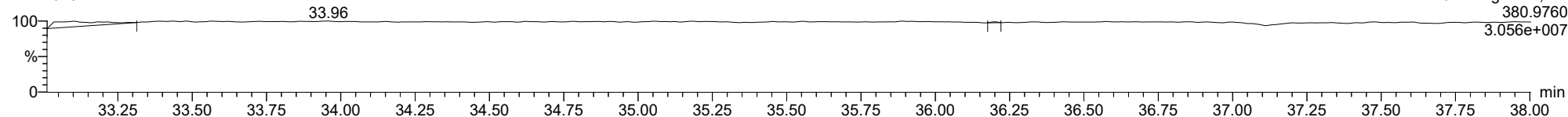
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FUNCTION3 PFK

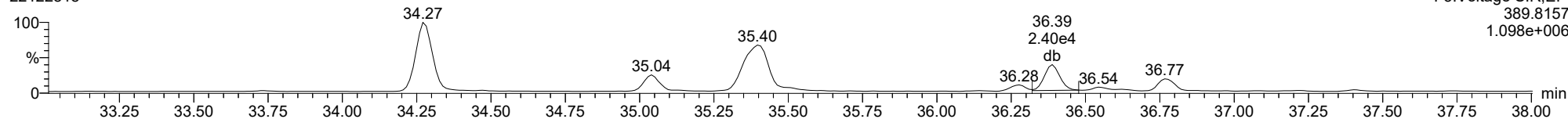
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

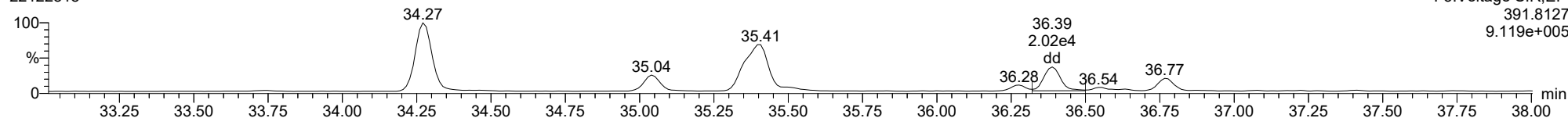
123678-HxCDD

22122818



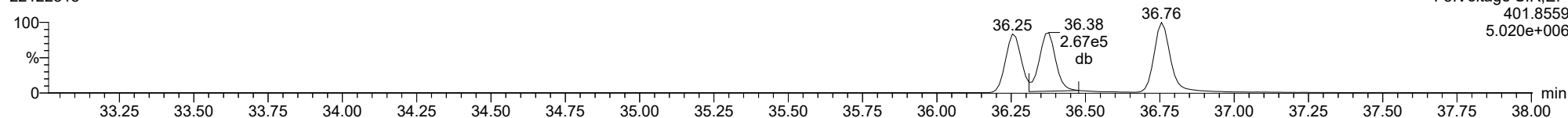
123678-HxCDD

22122818



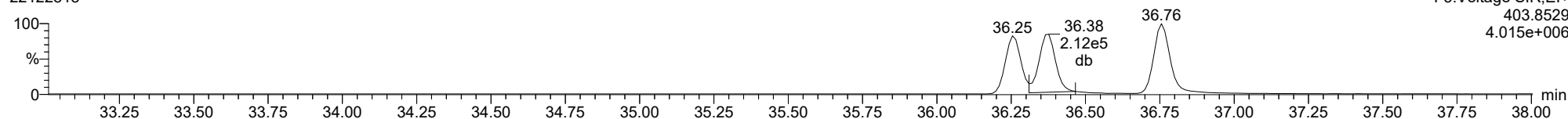
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22122818



13C-123678-HxCDD

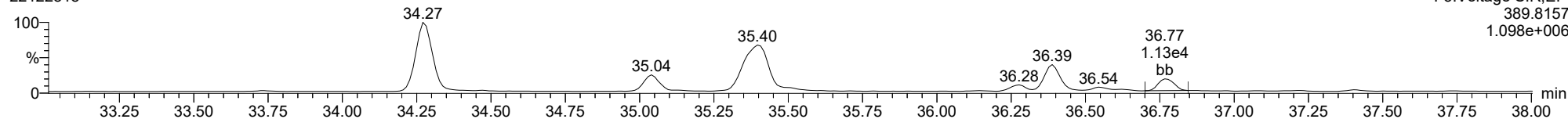
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

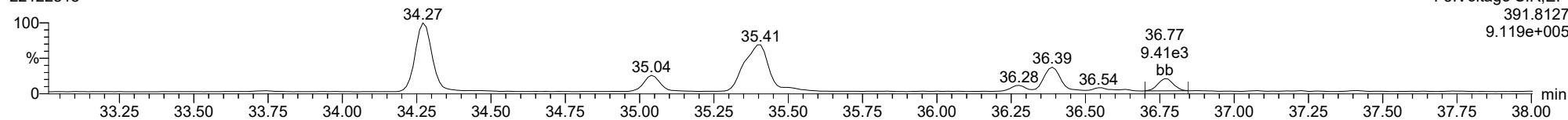
**123789-HxCDD**

22122818



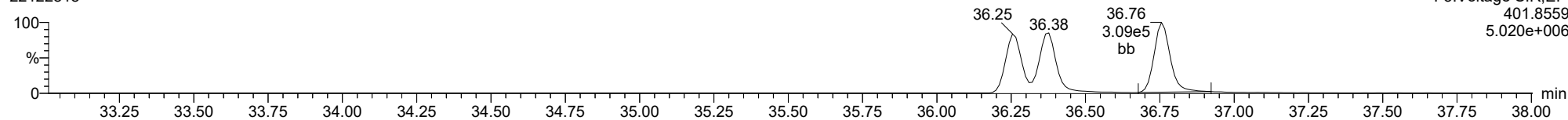
**123789-HxCDD**

22122818



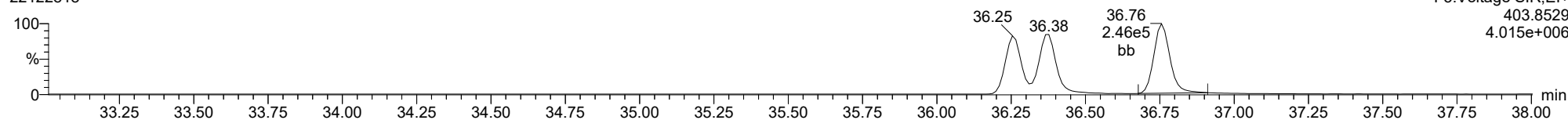
**13C-123789-HxCDD**

22122818



**13C-123789-HxCDD**

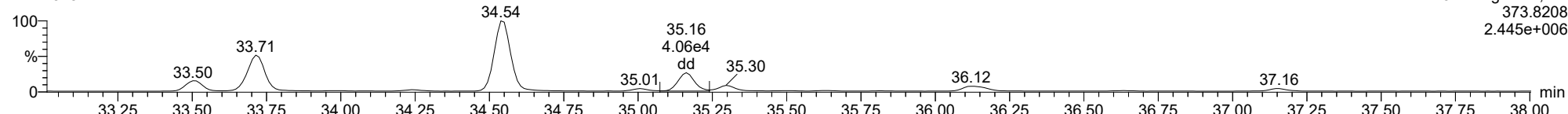
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

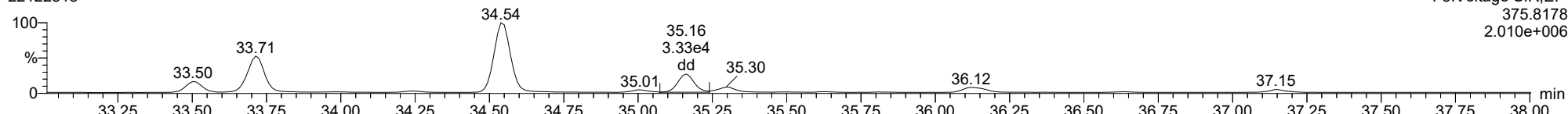
123478-HxCDF

22122818



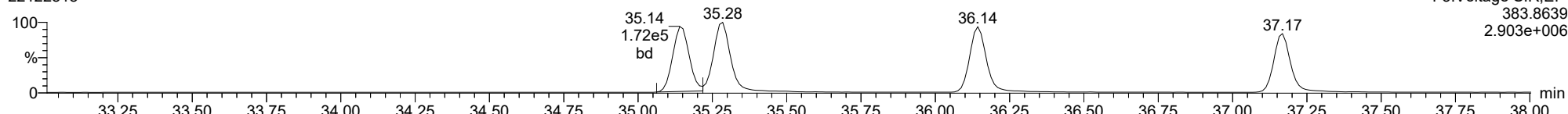
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22122818



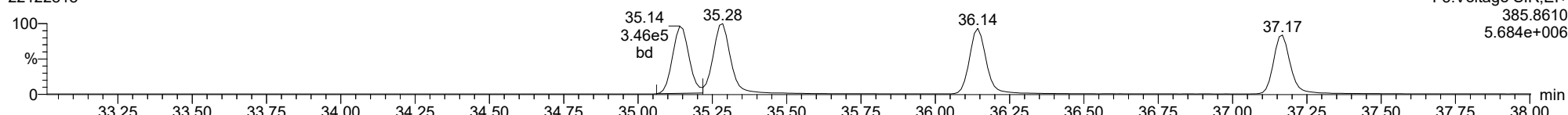
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22122818



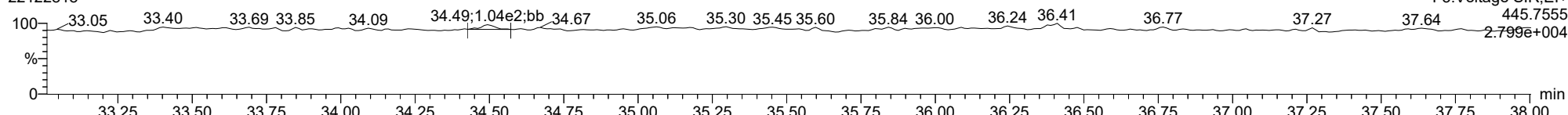
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22122818



FUNCTION3 OCDPE

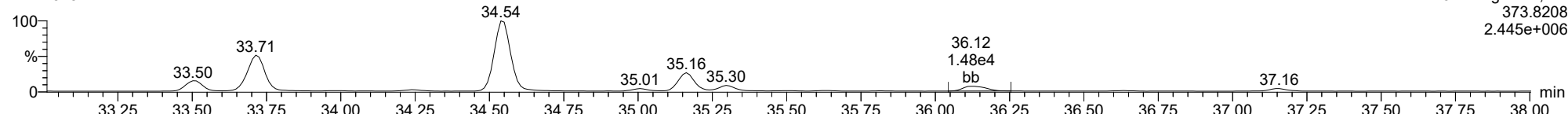
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

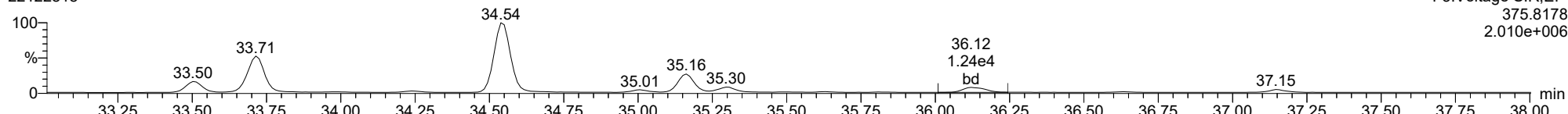
**234678-HxCDF**

22122818



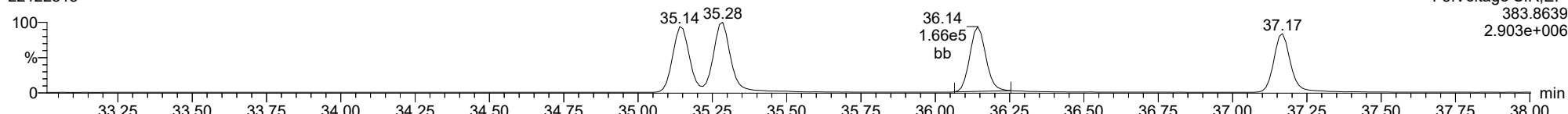
**234678-HxCDF**

22122818



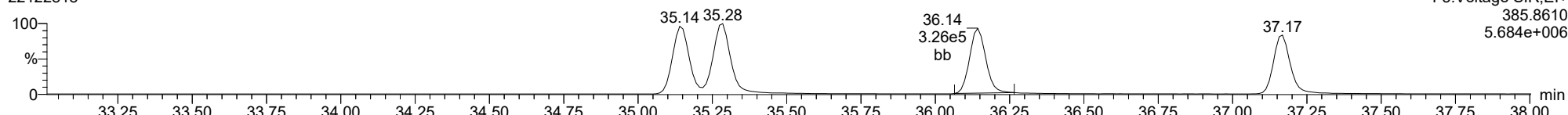
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22122818



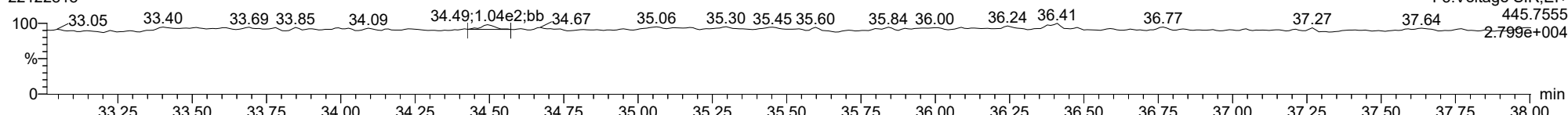
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22122818



**FUNCTION3 OCDPE**

22122818

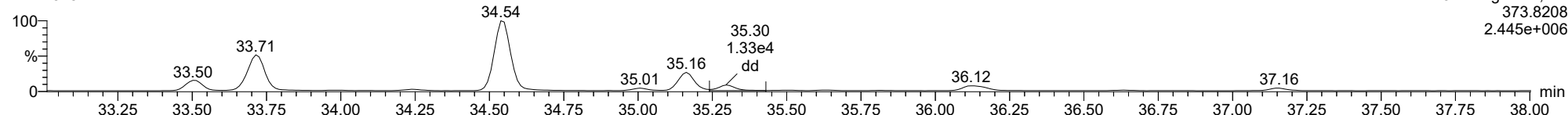




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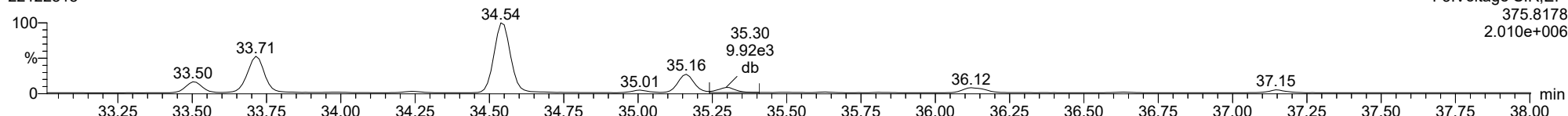
123678-HxCDF

22122818



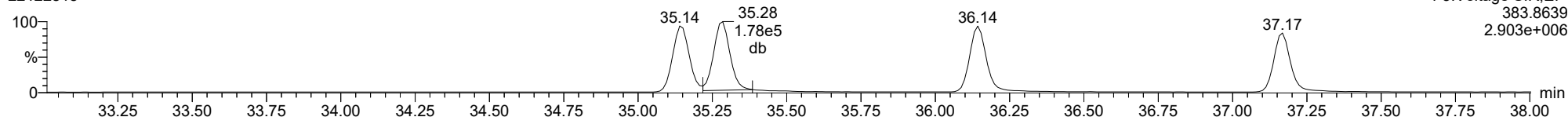
123678-HxCDF

22122818



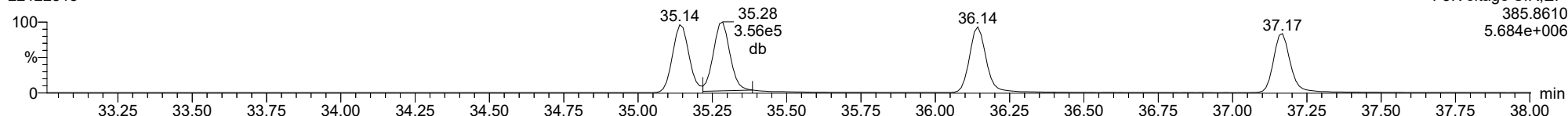
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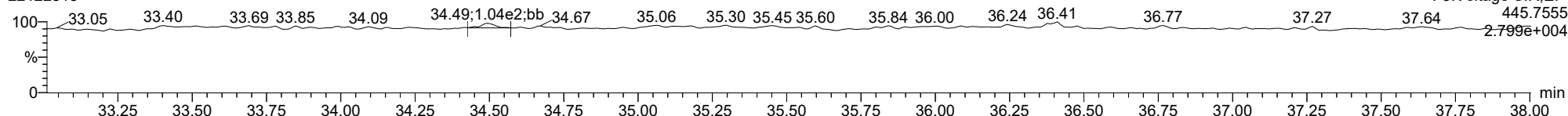
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FUNCTION3 OCDPE

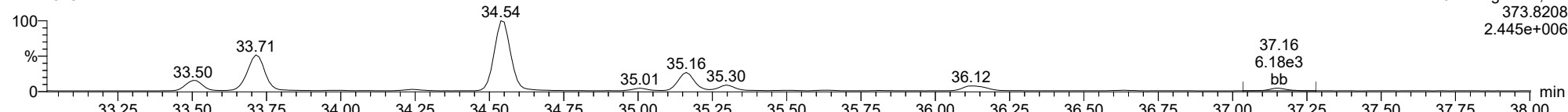
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

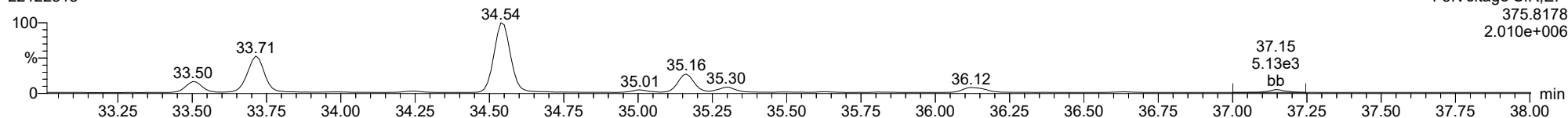
**123789-HxCDF**

22122818



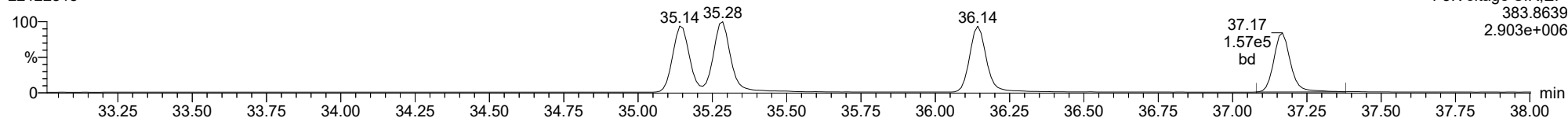
**123789-HxCDF**

22122818



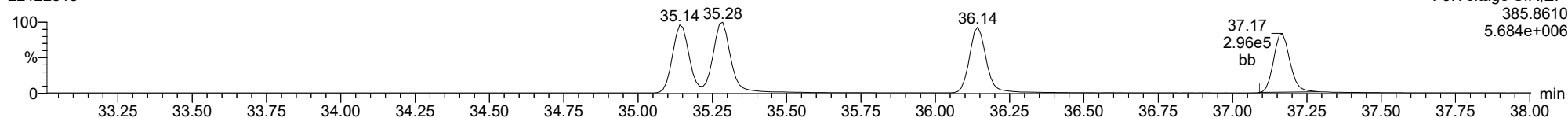
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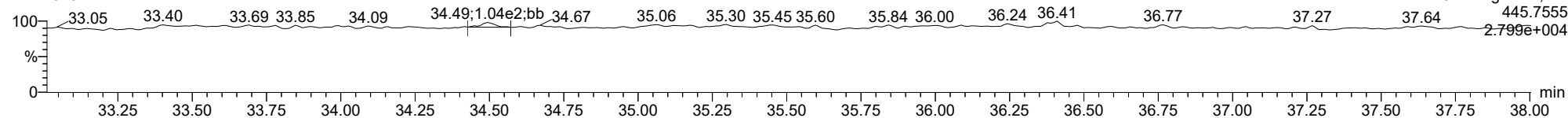
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**FUNCTION3 OCDPE**

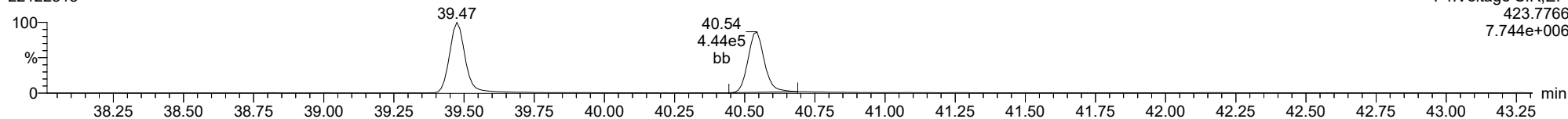
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

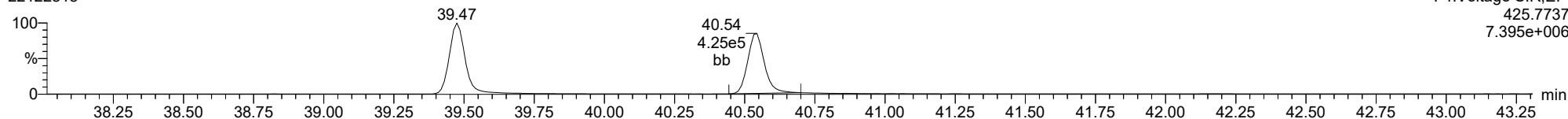
**1234678-HpCDD**

22122818



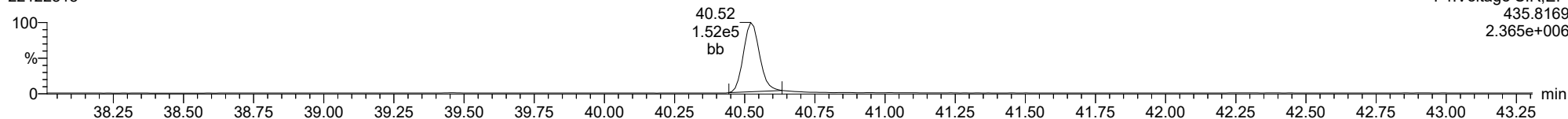
**1234678-HpCDD**

22122818



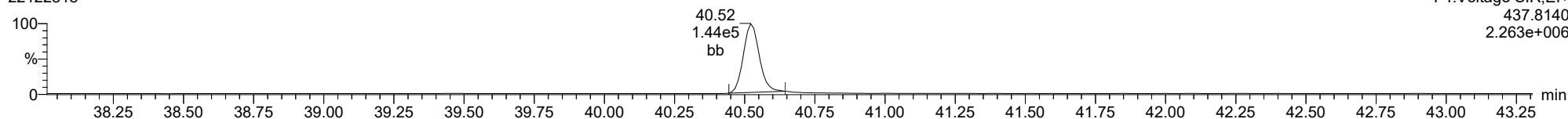
**13C-1234678-HpCDD**

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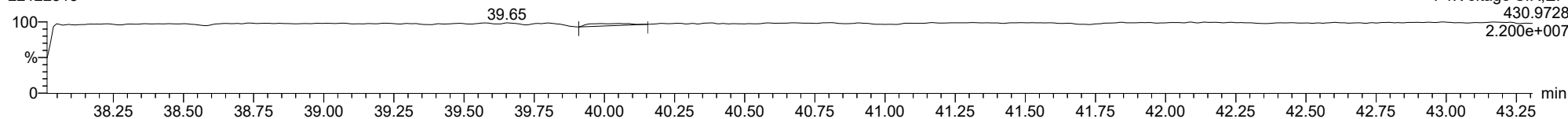
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22122818



**FUNCTION4 PFK**

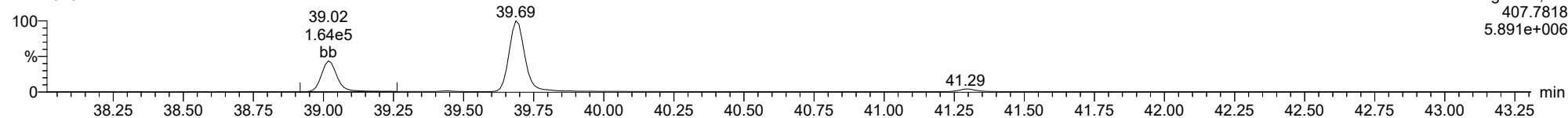
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

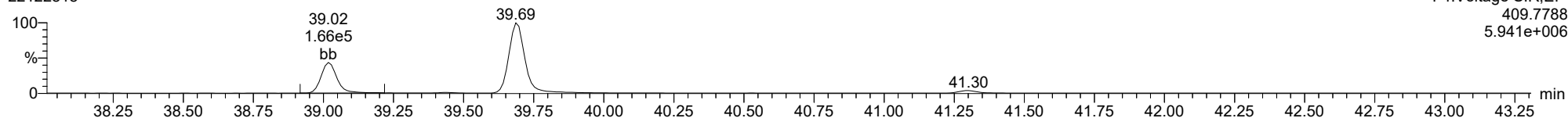
1234678-HpCDF

22122818



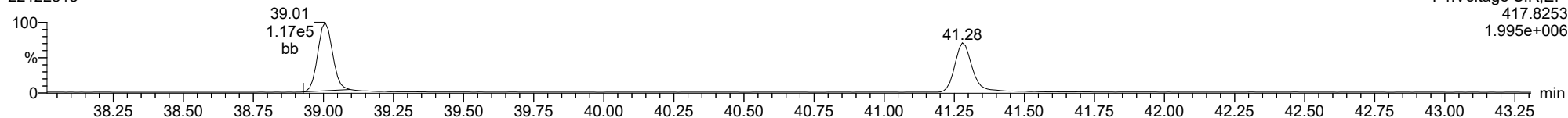
1234678-HpCDF

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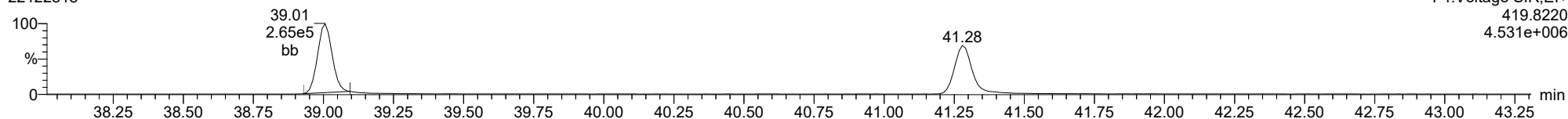
13C-1234678-HpCDF

22122818



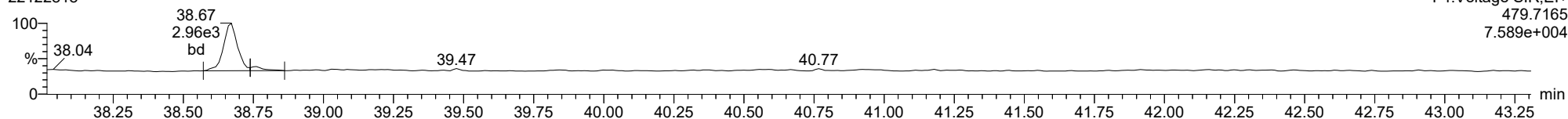
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22122818



FUNCTION4 NCDPE

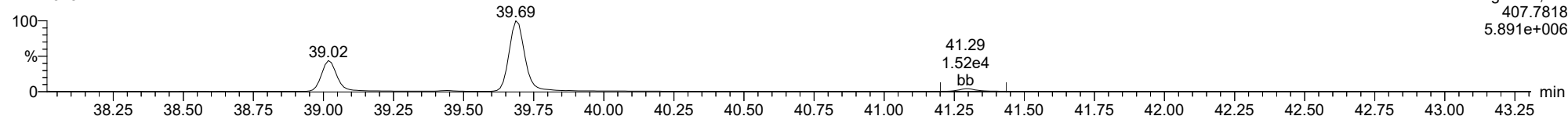
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ID: **BLK0419-DUP1**, Name: **22122818**, Date: **29-Dec-2022**, Time: **00:53:19**, Conditions: **AUTOSPEC01**, User: **pk**

**1234789-HpCDF**

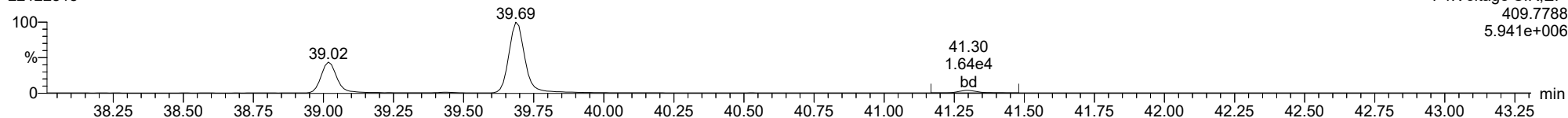
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F4:Voltage SIR,EI+  
407.7818  
5.891e+006

**1234789-HpCDF**

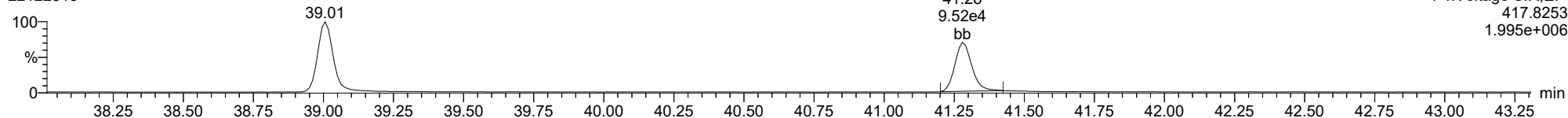
22122818



F4:Voltage SIR,EI+  
409.7788  
5.941e+006

**13C-1234789-HpCDF**

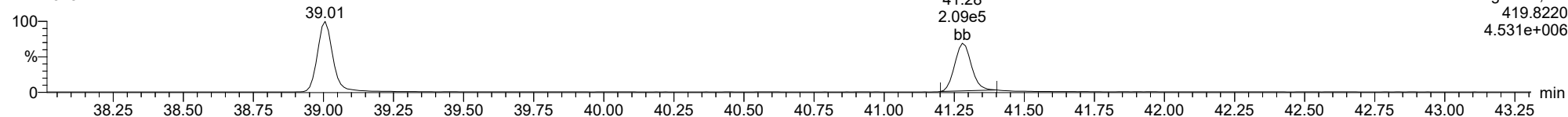
22122818



F4:Voltage SIR,EI+  
417.8253  
1.995e+006

**13C-1234789-HpCDF**

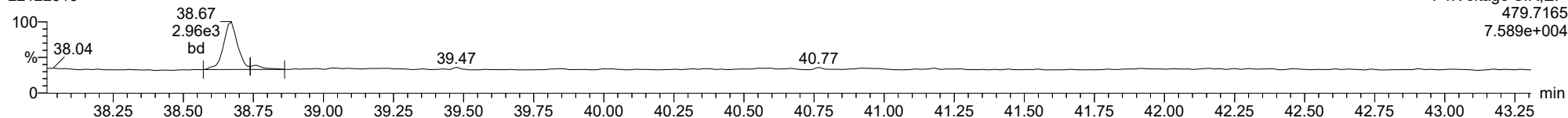
22122818



F4:Voltage SIR,EI+  
419.8220  
4.531e+006

**FUNCTION4 NCDPE**

22122818

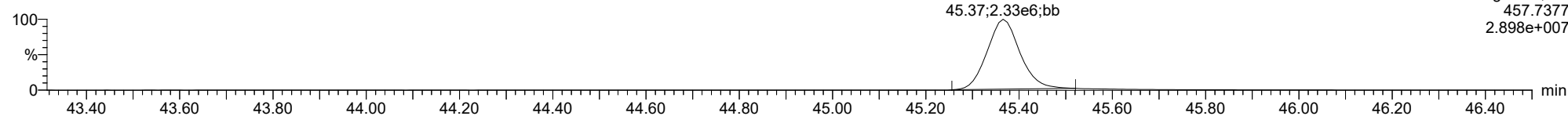


F4:Voltage SIR,EI+  
479.7165  
7.589e+004

ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

**OCDD**

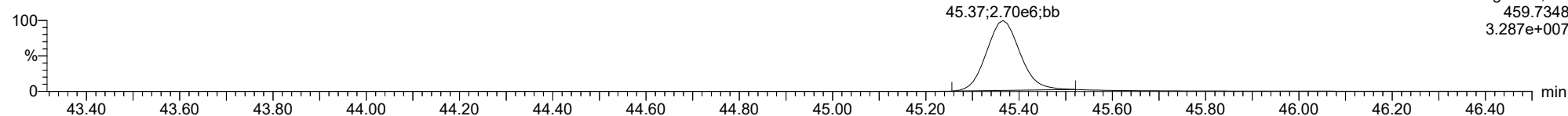
22122818



F5:Voltage SIR,EI+  
457.7377  
2.898e+007

**OCDD**

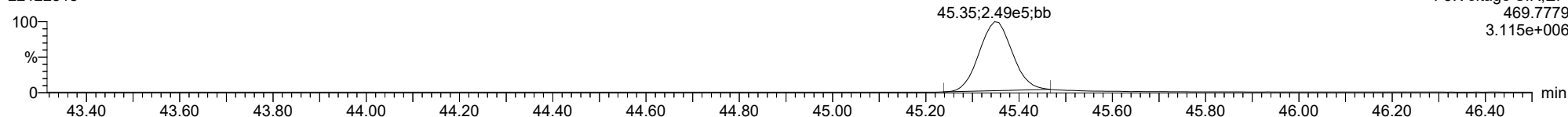
22122818



F5:Voltage SIR,EI+  
459.7348  
3.287e+007

**13C-OCDD**

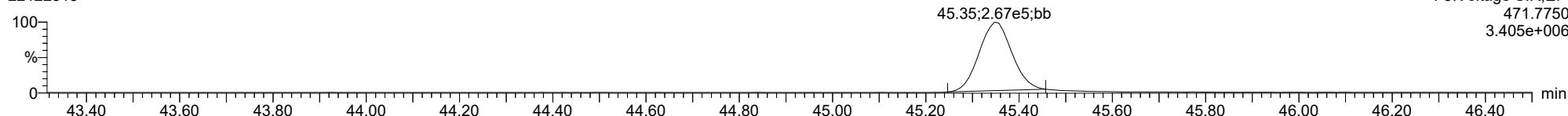
22122818



F5:Voltage SIR,EI+  
469.7779  
3.115e+006

**13C-OCDD**

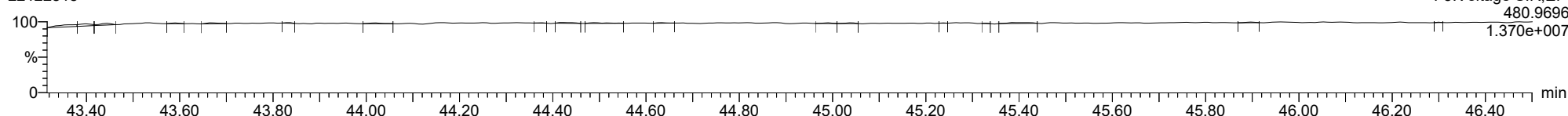
22122818



F5:Voltage SIR,EI+  
471.7750  
3.405e+006

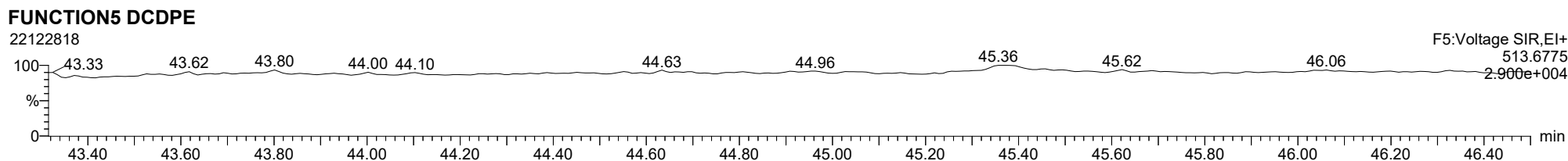
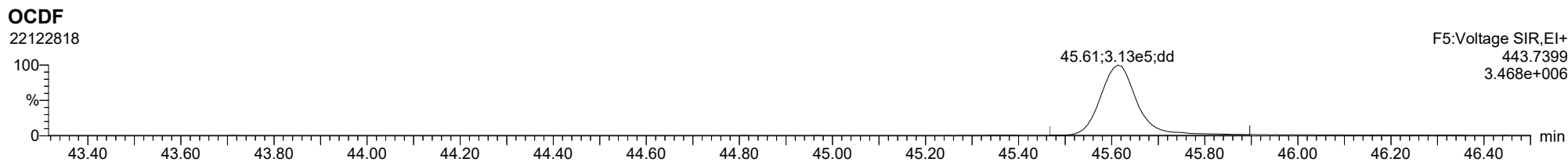
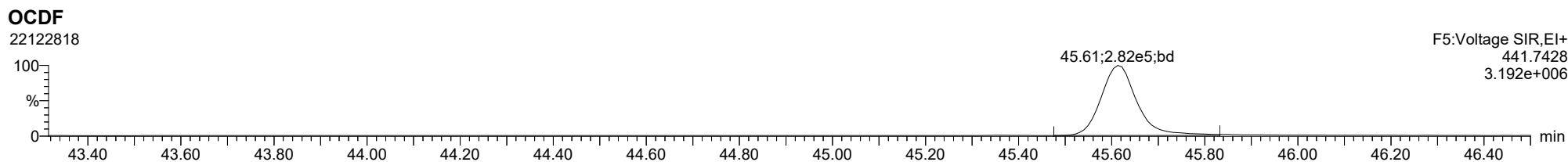
**FUNCTION5 PFK**

22122818



F5:Voltage SIR,EI+  
480.9696  
1.370e+007

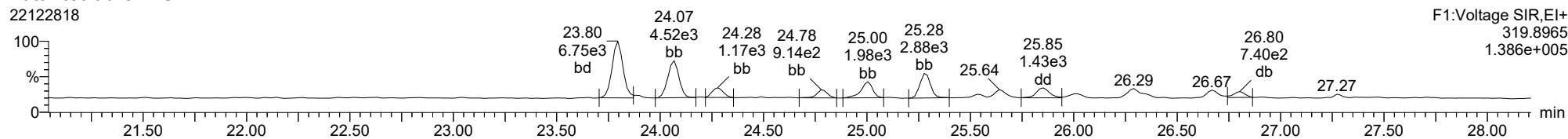
ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk



ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

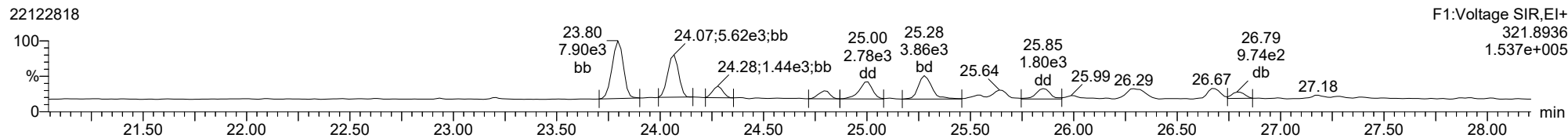
**Total-tetradoxins**

22122818



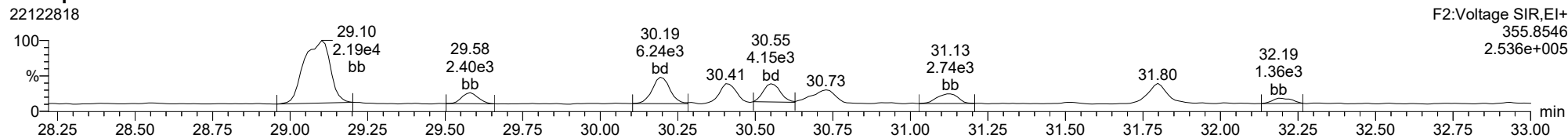
**Total-tetradoxins**

22122818



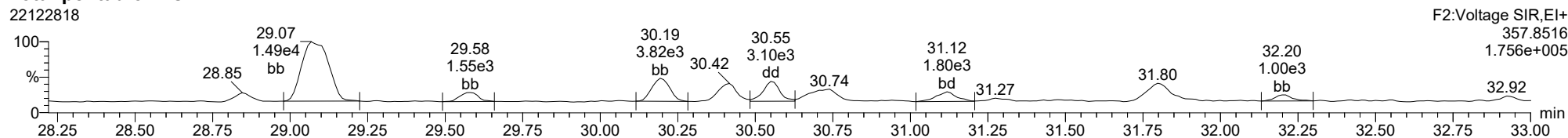
**Total-pentadoxins**

22122818



**Total-pentadoxins**

22122818

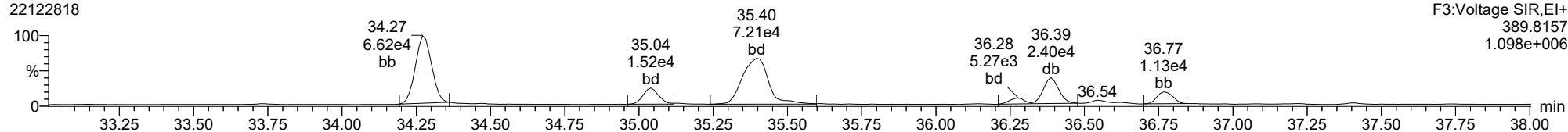




ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

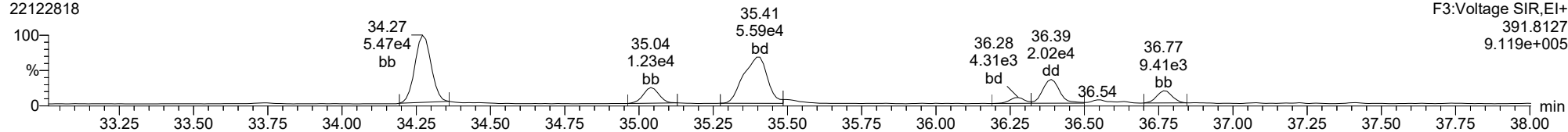
### Total-hexadioxins

22122818



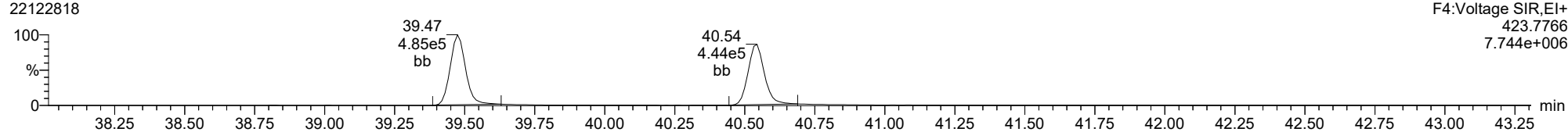
### Total-hexadioxins

22122818



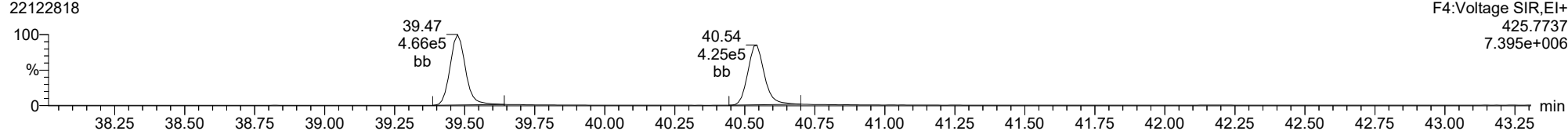
### Total-heptadioxins

22122818



### Total-heptadioxins

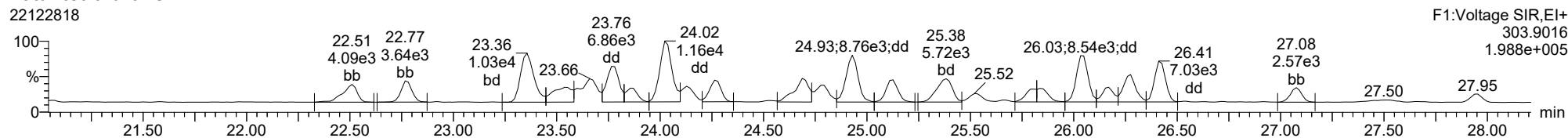
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ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

**Total-tetrafurans**

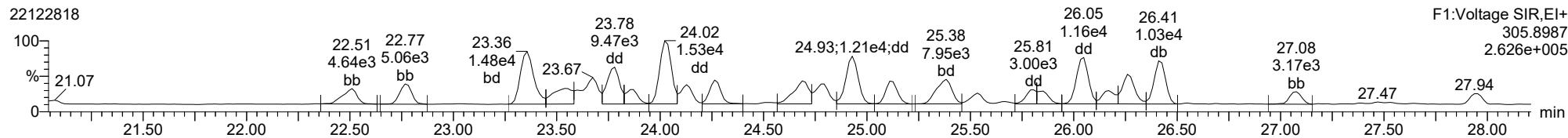
22122818



F1:Voltage SIR,EI+  
303.9016  
1.988e+005

**Total-tetrafurans**

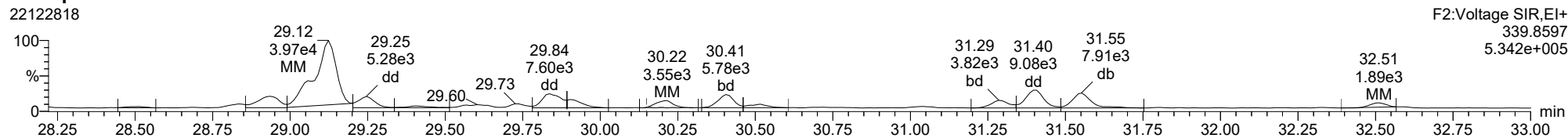
22122818



F1:Voltage SIR,EI+  
305.8987  
2.626e+005

**Total-pentafurans**

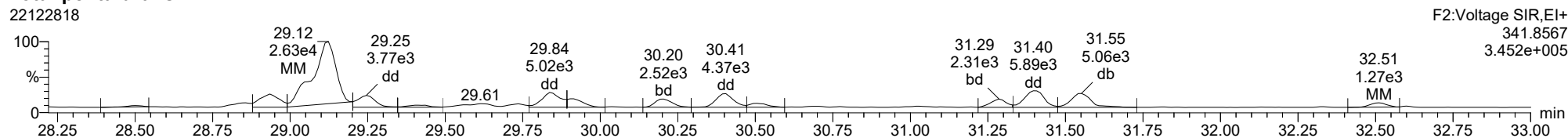
22122818



F2:Voltage SIR,EI+  
339.8597  
5.342e+005

**Total-pentafurans**

22122818

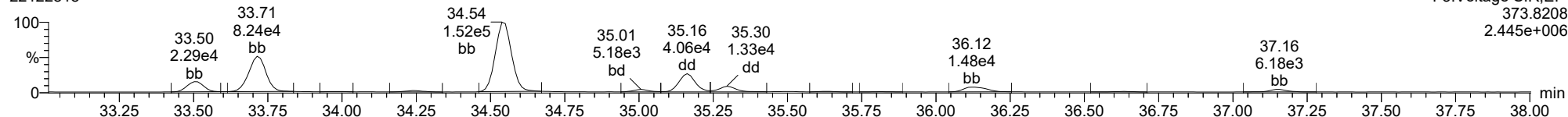


F2:Voltage SIR,EI+  
341.8567  
3.452e+005

ID: BLK0419-DUP1, Name: 22122818, Date: 29-Dec-2022, Time: 00:53:19, Conditions: AUTOSPEC01, User: pk

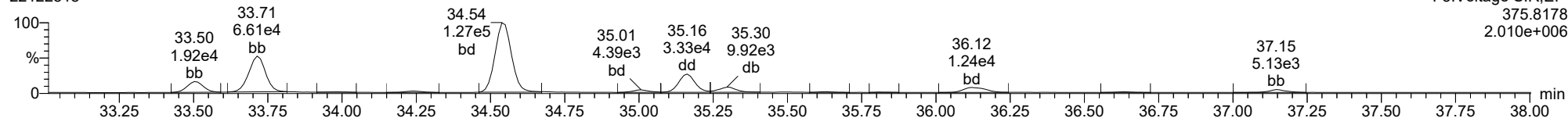
**Total-hexafurans**

22122818



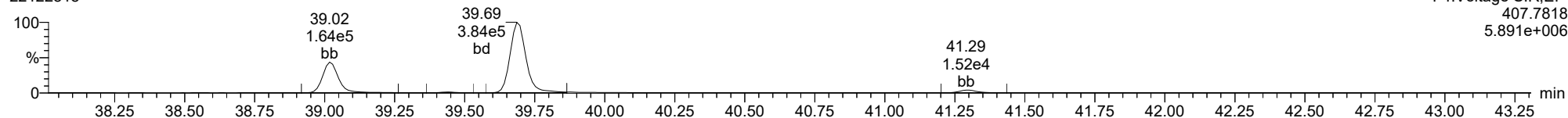
**Total-hexafurans**

22122818



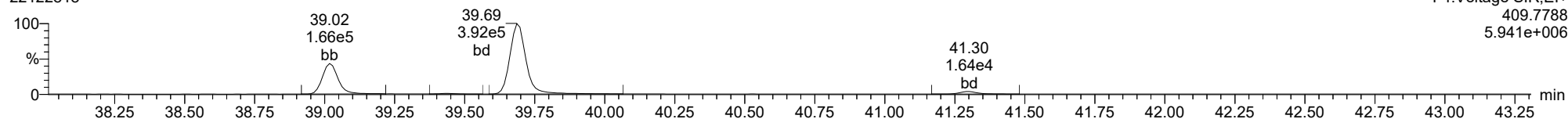
**Total-heptafurans**

22122818



**Total-heptafurans**

22122818





**STANDARD REFERENCE MATERIAL RECOVERY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0419-SRM1

Batch: BKL0419

Initial/Final: 10.04 g / 20 uL

Preparation: EPA 1613

Analyzed: 12/28/2022 23:14

Standard ID: K011477

Expires: 06/11/2023

Standard Lot#: PSRM0168

Description: Puget Sound reference-SRM

ANALYTE	TRUE (ng/kg wet)	FOUND (ng/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
2,3,7,8-TCDF	1.1100	1.02	0.129	0.996	X	91.8	50 - 150
2,3,7,8-TCDD	1.0500	0.952	0.149	0.996	J	90.7	50 - 150
1,2,3,7,8-PeCDF	1.2300	1.15	0.239	0.996		93.3	50 - 150
2,3,4,7,8-PeCDF	1.0700	0.869	0.219	0.996	J	81.2	50 - 150
1,2,3,7,8-PeCDD	1.0800	1.22	0.241	0.996		113	50 - 150
1,2,3,4,7,8-HxCDF	3.0200	2.89	0.279	0.996		95.7	50 - 150
1,2,3,6,7,8-HxCDF	1.0900	0.976	0.199	0.996	J, B	89.6	50 - 150
2,3,4,6,7,8-HxCDF	1.8300	1.77	0.169	0.996		96.9	50 - 150
1,2,3,7,8,9-HxCDF	0.51100	0.612	0.189	0.996	EMPC, J	120	50 - 150
1,2,3,4,7,8-HxCDD	1.5900	1.51	0.219	0.996		94.9	50 - 150
1,2,3,6,7,8-HxCDD	3.8800	4.38	0.207	0.996		113	50 - 150
1,2,3,7,8,9-HxCDD	3.0400	2.96	0.230	0.996		97.2	50 - 150
1,2,3,4,6,7,8-HpCDF	18.700	19.3	0.209	0.996	B	103	50 - 150
1,2,3,4,7,8,9-HpCDF	1.6300	1.39	0.239	0.996		85.0	50 - 150
1,2,3,4,6,7,8-HpCDD	90.600	96.0	0.558	2.49	B	106	50 - 150
OCDF	58.400	50.9	1.10	2.49	B	87.2	50 - 150
OCDD	811.00	845	4.58	9.96	B	104	50 - 150

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:54:06 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
 Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.033	1.001	1.788e3	2.434e3	0.985	0.734	0.770	1151	1575	2.33e4	3.31e4	20.2	21.0	NO	dd	dd	0.512
12378-PeCDF	30.182	1.000	2.020e3	1.511e3	0.906	1.337	1.550	1578	1321	3.19e4	1.83e4	20.2	13.9	NO	db	bb	0.576
23478-PeCDF	31.530	1.000	1.678e3	1.188e3	1.008	1.412	1.550	1578	1321	2.24e4	1.78e4	14.2	13.5	NO	db	db	0.436
123478-HxCDF	35.140	1.000	4.523e3	3.325e3	1.045	1.360	1.240	716	1132	6.78e4	5.15e4	94.6	45.5	NO	bd	dd	1.451
234678-HxCDF	36.143	1.000	2.868e3	2.095e3	1.101	1.369	1.240	716	1132	3.30e4	2.58e4	46.1	22.8	NO	bb	bb	0.890
123678-HxCDF	35.285	1.000	1.579e3	1.161e3	1.019	1.360	1.240	716	1132	2.33e4	1.70e4	32.5	15.0	NO	db	db	0.490
123789-HxCDF	37.134	0.999	9.484e2	5.802e2	0.992	1.635	1.240	716	1132	1.20e4	9.44e3	16.8	8.3	YES	MM	MM	0.307
1234678-HpCDF	39.006	1.000	2.300e4	2.205e4	1.243	1.043	1.050	1027	964	3.45e5	3.40e5	336.3	353.0	NO	bd	bb	9.693
1234789-HpCDF	41.279	1.000	1.380e3	1.345e3	1.192	1.026	1.050	1027	964	2.11e4	2.30e4	20.6	23.9	NO	bb	bd	0.695
OCDF	45.595	1.006	3.907e4	4.524e4	1.303	0.863	0.890	703	889	4.28e5	5.06e5	609.4	569.1	NO	bd	bd	25.562
2378-TCDD	26.668	1.001	1.494e3	1.997e3	1.168	0.748	0.770	1008	810	2.31e4	2.84e4	23.0	35.1	NO	bd	bd	0.478
12378-PeCDD	31.787	1.000	1.671e3	1.081e3	1.152	1.546	1.550	1111	1586	2.10e4	1.47e4	18.9	9.3	NO	bb	bb	0.610
123478-HxCDD	36.265	1.001	1.877e3	1.385e3	0.934	1.355	1.240	1162	1310	3.16e4	2.42e4	27.2	18.4	NO	dd	bd	0.757
123678-HxCDD	36.377	1.000	5.393e3	4.324e3	0.950	1.247	1.240	1162	1310	8.27e4	6.28e4	71.2	48.0	NO	dd	dd	2.197
123789-HxCDD	36.756	1.011	3.161e3	2.841e3	0.873	1.113	1.240	1162	1310	5.14e4	4.81e4	44.2	36.7	NO	bb	bb	1.484
1234678-HpCDD	40.521	1.000	8.818e4	9.195e4	1.268	0.959	1.050	2636	2410	1.32e6	1.28e6	500.4	531.5	NO	bb	bd	48.189
OCDD	45.348	1.000	5.560e5	6.142e5	1.089	0.905	0.890	2705	2407	6.25e6	7.18e6	2311.2	2985.4	NO	bd	bb	424.371
13C-2378-TCDF	26.003	1.007	3.624e5	4.757e5	1.751	0.762	0.770	2525	1958	5.53e6	7.20e6	2189.0	3678.5	NO	bb	bb	81.828
13C-12378-PeCDF	30.171	1.168	4.131e5	2.637e5	1.442	1.567	1.550	2167	1590	6.18e6	4.02e6	2849.4	2530.6	NO	bb	bb	80.267
13C-23478-PeCDF	31.519	1.221	3.959e5	2.563e5	1.366	1.545	1.550	2167	1590	6.07e6	3.91e6	2802.6	2460.7	NO	bb	bb	81.654
13C-123478-HxCDF	35.129	0.956	1.728e5	3.445e5	1.095	0.502	0.510	2058	2074	2.76e6	5.49e6	1339.1	2648.8	NO	bd	bd	91.865
13C-123678-HxCDF	35.274	0.960	1.887e5	3.596e5	1.168	0.525	0.510	2058	2074	2.75e6	5.43e6	1338.4	2616.5	NO	db	db	91.270
13C-234678-HxCDF	36.132	0.983	1.708e5	3.356e5	1.023	0.509	0.510	2058	2074	2.60e6	5.20e6	1262.2	2505.2	NO	bb	bb	96.250
13C-123789-HxCDF	37.157	1.011	1.655e5	3.357e5	0.879	0.493	0.510	2058	2074	2.65e6	5.32e6	1287.0	2564.5	NO	bb	bb	110.881
13C-1234678-HpCDF	38.995	1.061	1.162e5	2.577e5	0.925	0.451	0.440	1625	2199	1.91e6	4.31e6	1174.1	1958.5	NO	bb	bb	78.533
13C-1234789-HpCDF	41.268	1.123	1.062e5	2.226e5	0.715	0.477	0.440	1625	2199	1.38e6	3.14e6	851.9	1430.3	NO	bd	bb	89.397
13C-1234-TCDD	25.821	0.000	2.557e5	3.291e5	1.000	0.777	0.770	1874	1298	3.85e6	5.08e6	2053.1	3917.7	NO	bb	bb	100.000
13C-2378-TCDD	26.653	1.032	2.726e5	3.530e5	1.081	0.772	0.770	1874	1298	3.90e6	5.07e6	2083.2	3906.0	NO	bb	bb	98.929
13C-12378-PeCDD	31.775	1.231	2.443e5	1.472e5	0.776	1.660	1.550	1203	848	3.62e6	2.13e6	3011.4	2517.7	NO	bb	bb	86.230
13C-123478-HxCDD	36.243	0.986	2.561e5	2.050e5	0.975	1.250	1.240	1606	1279	4.02e6	3.20e6	2503.5	2499.1	NO	bd	bd	91.940
13C-123678-HxCDD	36.366	0.990	2.540e5	2.115e5	1.067	1.201	1.240	1606	1279	4.09e6	3.31e6	2550.3	2591.8	NO	db	db	84.845
13C-1234678-HpCDD	40.510	1.102	1.513e5	1.434e5	0.582	1.055	1.050	1363	1448	2.28e6	2.10e6	1673.5	1447.0	NO	bb	bb	98.520
13C-OCDD	45.329	1.234	2.442e5	2.621e5	0.509	0.932	0.890	1501	1593	2.93e6	3.14e6	1951.1	1968.3	NO	bb	bb	193.536
13C-123789-HxCDD	36.744	0.000	2.837e5	2.308e5	1.000	1.229	1.240	1606	1279	4.56e6	3.68e6	2838.0	2881.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.668	1.033	2.684e5		1.120			1294		3.99e6		3085.5			bb		40.979

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:54:06 Pacific Standard Time

ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.495	0.865	5.528e2	6.527e2	1.300	0.847	0.770	1151	1575	7.89e3	7.90e3	6.9	5.0	NO	bb	bb	0.111
1289-TCDF					0.931		0.770	1151	1575								
13468-PECDF					1.308		1.550	921	1128								
12389-PECDF					0.860		1.550	1578	1321								
123468-HXCDF	33.491	0.953	4.026e3	3.327e3	1.156	1.210	1.240	716	1132	6.24e4	5.61e4	87.2	49.6	NO	bb	bb	1.229
1368-TCDD	23.780	0.892	1.238e3	1.640e3	1.151	0.755	0.770	1008	810	1.96e4	2.49e4	19.4	30.8	NO	bb	bb	0.400
1289-TCDD					0.950		0.770	1008	810								
12479-PECDD	29.057	0.914	1.635e3	2.085e3	2.164	0.784	1.550	1111	1586	3.28e4	2.19e4	29.6	13.8	YES	bd	bb	0.439
12389-PECDD	32.188	1.013	3.121e2	3.354e2	1.371	0.930	1.550	1111	1586	5.82e3	5.47e3	5.2	3.5	YES	bb	bb	0.121
124679-HXCDD	34.260	0.945	1.298e4	1.057e4	1.153	1.228	1.240	1162	1310	2.13e5	1.79e5	183.0	137.0	NO	bb	bb	4.432
1234679-HPCDD	39.463	0.974	1.426e5	1.402e5	1.473	1.017	1.050	2636	2410	2.14e6	2.07e6	810.5	857.7	NO	bd	bb	65.116
Total-tetrafurans			1.446e4		1.072			1151		1.96e5							3.805
Total-penta1			1.380e4					921		1.79e5							3.639
Total-pentafurans			6.096e3		0.924			1578		8.96e4							1.672
Total-hexafurans			4.407e4		1.063			716		6.55e5							14.301
Total-heptafurans			7.265e4		1.218			1027		1.09e6							33.000
Total-Furans			1.910e5		1.090			1151		2.65e6							82.207
Total-tetradoxins			4.742e3		1.090			1008		7.46e4							1.564
Total-pentadoxins			1.671e3		1.562			1111		2.10e4							0.610
Total-hexadoxins			4.334e4		0.978			1162		5.97e5							16.502
Total-heptadoxins			2.308e5		1.371			2636		3.46e6							113.305
Total-Dioxins			8.365e5		1.207			1008		1.04e7							556.353
Total-TEQ			1.028e6					1008		1.30e7							638.559
FUNCTION1 PFK			1.559e7					281153		1.16e8							
FUNCTION2 PFK			6.310e4					169116		1.52e6							0.000
FUNCTION3 PFK			7.988e5					271151		6.00e6							0.000
FUNCTION4 PFK			2.235e5					196136		6.10e6							
FUNCTION5 PFK			0.000e0					92596		0.00e0							
FUNCTION1 HXCD...			6.384e3					684		1.14e5							0.000
FUNCTION1 HPCD...			1.798e4					700		2.92e5							0.000
FUNCTION2 HPCD...			7.417e2					1140		1.25e4							0.000
FUNCTION3 OCDPE			2.235e2					594		3.12e3							0.000
FUNCTION4 NCDPE			9.621e3					657		1.56e5							0.000
FUNCTION5 DCDPE			1.636e2					825		2.95e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:54:06 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.34	2.514e2	3.520e2	1.072	0.71	0.77	4.2	YES	NO	db	dd	0.067
2	Total-tetrafurans	23.83	4.888e2	6.329e2	1.072	0.77	0.77	7.8	YES	NO	db	dd	0.125
3	Total-tetrafurans	23.66	1.648e3	1.905e3	1.072	0.86	0.77	19.4	YES	NO	dd	dd	0.395
4	Total-tetrafurans	23.34	2.283e3	2.747e3	1.072	0.83	0.77	28.0	YES	NO	bd	bd	0.560
5	Total-tetrafurans	22.77	5.137e2	7.435e2	1.072	0.69	0.77	6.7	YES	NO	db	db	0.140
6	Total-tetrafurans	22.68	2.285e2	3.445e2	1.072	0.66	0.77	4.4	YES	NO	bd	bd	0.064
7	1368-TCDF	22.49	5.528e2	6.527e2	1.300	0.85	0.77	6.9	YES	NO	bb	bb	0.111
8	Total-tetrafurans	26.26	1.205e3	1.751e3	1.072	0.69	0.77	16.5	YES	NO	dd	dd	0.329
9	2378-TCDF	26.03	1.788e3	2.434e3	0.985	0.73	0.77	20.2	YES	NO	dd	dd	0.512
10	Total-tetrafurans	25.11	1.852e3	2.724e3	1.072	0.68	0.77	23.2	YES	NO	bb	db	0.509
11	Total-tetrafurans	24.76	3.648e3	5.277e3	1.072	0.69	0.77	32.8	YES	NO	MM	MM	0.993

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.45	1.380e4	8.783e3		1.57	1.55	194.3	YES	NO	bb	bd	3.639

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.47	9.231e2	5.755e2	0.924	1.60	1.55	8.7	YES	NO	bb	bb	0.244
2	23478-PeCDF	31.53	1.678e3	1.188e3	1.008	1.41	1.55	14.2	YES	NO	db	db	0.436
3	Total-pentafurans	31.39	9.424e2	6.889e2	0.924	1.37	1.55	9.0	YES	NO	dd	dd	0.266
4	Total-pentafurans	31.27	5.330e2	3.898e2	0.924	1.37	1.55	4.7	YES	NO	bd	bd	0.150
5	12378-PeCDF	30.18	2.020e3	1.511e3	0.906	1.34	1.55	20.2	YES	NO	db	bb	0.576

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:54:06 Pacific Standard Time

**ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk****HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	36.14	2.868e3	2.095e3	1.101	1.37	1.24	46.1	YES	NO	bb	bb	0.890
2	Total-hexafurans	35.61	2.050e2	1.905e2	1.063	1.08	1.24	4.5	YES	NO	bb	bb	0.072
3	123678-HxCDF	35.28	1.579e3	1.161e3	1.019	1.36	1.24	32.5	YES	NO	db	db	0.490
4	123478-HxCDF	35.14	4.523e3	3.325e3	1.045	1.36	1.24	94.6	YES	NO	bd	dd	1.451
5	Total-hexafurans	34.98	5.547e2	4.283e2	1.063	1.30	1.24	13.0	YES	NO	bb	bd	0.178
6	Total-hexafurans	34.53	1.683e4	1.378e4	1.063	1.22	1.24	367.5	YES	NO	bb	bb	5.555
7	Total-hexafurans	33.70	1.349e4	1.095e4	1.063	1.23	1.24	269.6	YES	NO	bb	bd	4.436
8	123468-HXCDF	33.49	4.026e3	3.327e3	1.156	1.21	1.24	87.2	YES	NO	bb	bb	1.229

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.28	1.380e3	1.345e3	1.192	1.03	1.05	20.6	YES	NO	bb	bd	0.695
2	Total-heptafurans	39.94	1.244e2	1.248e2	1.218	1.00	1.05	3.5	YES	NO	db	db	0.058
3	Total-heptafurans	39.67	4.779e4	4.804e4	1.218	0.99	1.05	690.4	YES	NO	bd	bd	22.400
4	Total-heptafurans	39.41	3.523e2	3.020e2	1.218	1.17	1.05	6.9	YES	NO	bd	bb	0.153
5	1234678-HpCDF	39.01	2.300e4	2.205e4	1.243	1.04	1.05	336.3	YES	NO	bd	bb	9.693



## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

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ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.34	2.514e2	3.520e2	1.072	0.71	0.77	4.2	YES	NO	db	dd	0.067
2	Total-tetrafurans	23.83	4.888e2	6.329e2	1.072	0.77	0.77	7.8	YES	NO	db	dd	0.125
3	Total-tetrafurans	23.66	1.648e3	1.905e3	1.072	0.86	0.77	19.4	YES	NO	dd	dd	0.395
4	Total-tetrafurans	23.34	2.283e3	2.747e3	1.072	0.83	0.77	28.0	YES	NO	bd	bd	0.560
5	Total-tetrafurans	22.77	5.137e2	7.435e2	1.072	0.69	0.77	6.7	YES	NO	db	db	0.140
6	Total-tetrafurans	22.68	2.285e2	3.445e2	1.072	0.66	0.77	4.4	YES	NO	bd	bd	0.064
7	1368-TCDF	22.49	5.528e2	6.527e2	1.300	0.85	0.77	6.9	YES	NO	bb	bb	0.111
8	Total-Furans	21.63	2.561e2	3.452e2	1.090	0.74	0.77	3.3	YES	NO	bb	bb	0.066
9	Total-Furans	21.41	6.068e2	8.648e2	1.090	0.70	0.77	8.3	YES	NO	bb	db	0.161
10	Total-tetrafurans	26.26	1.205e3	1.751e3	1.072	0.69	0.77	16.5	YES	NO	dd	dd	0.329
11	2378-TCDF	26.03	1.788e3	2.434e3	0.985	0.73	0.77	20.2	YES	NO	dd	dd	0.512
12	Total-tetrafurans	25.11	1.852e3	2.724e3	1.072	0.68	0.77	23.2	YES	NO	bb	db	0.509
13	Total-pentafurans	28.47	9.231e2	5.755e2	0.924	1.60	1.55	8.7	YES	NO	bb	bb	0.244
14	23478-PeCDF	31.53	1.678e3	1.188e3	1.008	1.41	1.55	14.2	YES	NO	db	db	0.436
15	Total-pentafurans	31.39	9.424e2	6.889e2	0.924	1.37	1.55	9.0	YES	NO	dd	dd	0.266
16	Total-pentafurans	31.27	5.330e2	3.898e2	0.924	1.37	1.55	4.7	YES	NO	bd	bd	0.150
17	12378-PeCDF	30.18	2.020e3	1.511e3	0.906	1.34	1.55	20.2	YES	NO	db	bb	0.576
18	234678-HxCDF	36.14	2.868e3	2.095e3	1.101	1.37	1.24	46.1	YES	NO	bb	bb	0.890
19	Total-hexafurans	35.61	2.050e2	1.905e2	1.063	1.08	1.24	4.5	YES	NO	bb	bb	0.072
20	123678-HxCDF	35.28	1.579e3	1.161e3	1.019	1.36	1.24	32.5	YES	NO	db	db	0.490
21	123478-HxCDF	35.14	4.523e3	3.325e3	1.045	1.36	1.24	94.6	YES	NO	bd	dd	1.451
22	Total-hexafurans	34.98	5.547e2	4.283e2	1.063	1.30	1.24	13.0	YES	NO	bb	bd	0.178
23	Total-hexafurans	34.53	1.683e4	1.378e4	1.063	1.22	1.24	367.5	YES	NO	bb	bb	5.555
24	Total-hexafurans	33.70	1.349e4	1.095e4	1.063	1.23	1.24	269.6	YES	NO	bb	bd	4.436
25	123468-HXCDF	33.49	4.026e3	3.327e3	1.156	1.21	1.24	87.2	YES	NO	bb	bb	1.229
26	1234789-HpCDF	41.28	1.380e3	1.345e3	1.192	1.03	1.05	20.6	YES	NO	bb	bd	0.695
27	Total-heptafurans	39.94	1.244e2	1.248e2	1.218	1.00	1.05	3.5	YES	NO	db	db	0.058
28	Total-heptafurans	39.67	4.779e4	4.804e4	1.218	0.99	1.05	690.4	YES	NO	bd	bd	22.400
29	Total-heptafurans	39.41	3.523e2	3.020e2	1.218	1.17	1.05	6.9	YES	NO	bd	bb	0.153
30	1234678-HpCDF	39.01	2.300e4	2.205e4	1.243	1.04	1.05	336.3	YES	NO	bd	bb	9.693
31	OCDF	45.59	3.907e4	4.524e4	1.303	0.86	0.89	609.4	YES	NO	bd	bd	25.562
32	Total-penta1	27.45	1.380e4	8.783e3	1.57	1.57	1.55	194.3	YES	NO	bb	bd	3.639
33	Total-tetrafurans	24.76	3.648e3	5.277e3	1.072	0.69	0.77	32.8	YES	NO	MM	MM	0.993

ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradiioxins	26.79	2.929e2	3.432e2	1.090	0.85	0.77	3.7	YES	NO	db	db	0.093
2	2378-TCDD	26.67	1.494e3	1.997e3	1.168	0.75	0.77	23.0	YES	NO	bd	bd	0.478
3	Total-tetradiioxins	26.31	4.521e2	5.737e2	1.090	0.79	0.77	6.8	YES	NO	bb	bd	0.151
4	Total-tetradiioxins	26.02	1.933e2	2.670e2	1.090	0.72	0.77	4.6	YES	NO	db	db	0.068
5	Total-tetradiioxins	25.28	8.249e2	1.197e3	1.090	0.69	0.77	12.9	YES	NO	bb	db	0.297
6	Total-tetradiioxins	24.26	2.460e2	2.882e2	1.090	0.85	0.77	3.6	YES	NO	bb	bb	0.078
7	1368-TCDD	23.78	1.238e3	1.640e3	1.151	0.75	0.77	19.4	YES	NO	bb	bb	0.400

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.79	1.671e3	1.081e3	1.152	1.55	1.55	18.9	YES	NO	bb	bb	0.610

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadiioxins	35.03	3.184e3	2.259e3	0.978	1.41	1.24	42.0	YES	NO	bd	bb	1.202
2	124679-HxCDD	34.26	1.298e4	1.057e4	1.153	1.23	1.24	183.0	YES	NO	bb	bb	4.432
3	123789-HxCDD	36.76	3.161e3	2.841e3	0.873	1.11	1.24	44.2	YES	NO	bb	bb	1.484
4	Total-hexadiioxins	36.54	1.048e3	9.312e2	0.978	1.13	1.24	12.4	YES	NO	dd	dd	0.437
5	123678-HxCDD	36.38	5.393e3	4.324e3	0.950	1.25	1.24	71.2	YES	NO	dd	dd	2.197
6	123478-HxCDD	36.27	1.877e3	1.385e3	0.934	1.35	1.24	27.2	YES	NO	dd	bd	0.757
7	Total-hexadiioxins	35.40	1.570e4	1.144e4	0.978	1.37	1.24	133.7	YES	NO	bd	bd	5.993

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.46	1.426e5	1.402e5	1.473	1.02	1.05	810.5	YES	NO	bd	bb	65.116
2	1234678-HpCDD	40.52	8.818e4	9.195e4	1.268	0.96	1.05	500.4	YES	NO	bb	bd	48.189

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk****Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	26.79	2.929e2	3.432e2	1.090	0.85	0.77	3.7	YES	NO	db	db	0.093
2	2378-TCDD	26.67	1.494e3	1.997e3	1.168	0.75	0.77	23.0	YES	NO	bd	bd	0.478
3	Total-tetradoxins	26.31	4.521e2	5.737e2	1.090	0.79	0.77	6.8	YES	NO	bb	bd	0.151
4	Total-tetradoxins	26.02	1.933e2	2.670e2	1.090	0.72	0.77	4.6	YES	NO	db	db	0.068
5	Total-tetradoxins	25.28	8.249e2	1.197e3	1.090	0.69	0.77	12.9	YES	NO	bb	db	0.297
6	Total-tetradoxins	24.26	2.460e2	2.882e2	1.090	0.85	0.77	3.6	YES	NO	bb	bb	0.078
7	1368-TCDD	23.78	1.238e3	1.640e3	1.151	0.75	0.77	19.4	YES	NO	bb	bb	0.400
8	12378-PeCDD	31.79	1.671e3	1.081e3	1.152	1.55	1.55	18.9	YES	NO	bb	bb	0.610
9	Total-hexadoxins	35.03	3.184e3	2.259e3	0.978	1.41	1.24	42.0	YES	NO	bd	bb	1.202
10	124679-HxCDD	34.26	1.298e4	1.057e4	1.153	1.23	1.24	183.0	YES	NO	bb	bb	4.432
11	123789-HxCDD	36.76	3.161e3	2.841e3	0.873	1.11	1.24	44.2	YES	NO	bb	bb	1.484
12	Total-hexadoxins	36.54	1.048e3	9.312e2	0.978	1.13	1.24	12.4	YES	NO	dd	dd	0.437
13	123678-HxCDD	36.38	5.393e3	4.324e3	0.950	1.25	1.24	71.2	YES	NO	dd	dd	2.197
14	123478-HxCDD	36.27	1.877e3	1.385e3	0.934	1.35	1.24	27.2	YES	NO	dd	bd	0.757
15	Total-hexadoxins	35.40	1.570e4	1.144e4	0.978	1.37	1.24	133.7	YES	NO	bd	bd	5.993
16	1234679-HPCDD	39.46	1.426e5	1.402e5	1.473	1.02	1.05	810.5	YES	NO	bd	bb	65.116
17	1234678-HpCDD	40.52	8.818e4	9.195e4	1.268	0.96	1.05	500.4	YES	NO	bb	bd	48.189
18	OCDD	45.35	5.560e5	6.142e5	1.089	0.91	0.89	2311.2	YES	NO	bd	bb	424.371

## Quantify Totals Report MassLynx V4.1 SCN909

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ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.34	2.514e2	3.520e2	1.072	0.71	0.77	4.2	YES	NO	db	dd	0.067
2	Total-tetrafurans	23.83	4.888e2	6.329e2	1.072	0.77	0.77	7.8	YES	NO	db	dd	0.125
3	Total-tetrafurans	23.66	1.648e3	1.905e3	1.072	0.86	0.77	19.4	YES	NO	dd	dd	0.395
4	Total-tetrafurans	23.34	2.283e3	2.747e3	1.072	0.83	0.77	28.0	YES	NO	bd	bd	0.560
5	Total-tetrafurans	22.77	5.137e2	7.435e2	1.072	0.69	0.77	6.7	YES	NO	db	db	0.140
6	Total-tetrafurans	22.68	2.285e2	3.445e2	1.072	0.66	0.77	4.4	YES	NO	bd	bd	0.064
7	1368-TCDF	22.49	5.528e2	6.527e2	1.300	0.85	0.77	6.9	YES	NO	bb	bb	0.111
8	Total-Furans	21.63	2.561e2	3.452e2	1.090	0.74	0.77	3.3	YES	NO	bb	bb	0.066
9	Total-Furans	21.41	6.068e2	8.648e2	1.090	0.70	0.77	8.3	YES	NO	bb	db	0.161
10	Total-tetrafurans	26.26	1.205e3	1.751e3	1.072	0.69	0.77	16.5	YES	NO	dd	dd	0.329
11	2378-TCDF	26.03	1.788e3	2.434e3	0.985	0.73	0.77	20.2	YES	NO	dd	dd	0.512
12	Total-tetrafurans	25.11	1.852e3	2.724e3	1.072	0.68	0.77	23.2	YES	NO	bb	db	0.509
13	Total-pentafurans	28.47	9.231e2	5.755e2	0.924	1.60	1.55	8.7	YES	NO	bb	bb	0.244
14	23478-PeCDF	31.53	1.678e3	1.188e3	1.008	1.41	1.55	14.2	YES	NO	db	db	0.436
15	Total-pentafurans	31.39	9.424e2	6.889e2	0.924	1.37	1.55	9.0	YES	NO	dd	dd	0.266
16	Total-pentafurans	31.27	5.330e2	3.898e2	0.924	1.37	1.55	4.7	YES	NO	bd	bd	0.150
17	12378-PeCDF	30.18	2.020e3	1.511e3	0.906	1.34	1.55	20.2	YES	NO	db	bb	0.576
18	234678-HxCDF	36.14	2.868e3	2.095e3	1.101	1.37	1.24	46.1	YES	NO	bb	bb	0.890
19	Total-hexafurans	35.61	2.050e2	1.905e2	1.063	1.08	1.24	4.5	YES	NO	bb	bb	0.072
20	123678-HxCDF	35.28	1.579e3	1.161e3	1.019	1.36	1.24	32.5	YES	NO	db	db	0.490
21	123478-HxCDF	35.14	4.523e3	3.325e3	1.045	1.36	1.24	94.6	YES	NO	bd	dd	1.451
22	Total-hexafurans	34.98	5.547e2	4.283e2	1.063	1.30	1.24	13.0	YES	NO	bb	bd	0.178
23	Total-hexafurans	34.53	1.683e4	1.378e4	1.063	1.22	1.24	367.5	YES	NO	bb	bb	5.555
24	Total-hexafurans	33.70	1.349e4	1.095e4	1.063	1.23	1.24	269.6	YES	NO	bb	bd	4.436
25	123468-HXCDF	33.49	4.026e3	3.327e3	1.156	1.21	1.24	87.2	YES	NO	bb	bb	1.229
26	1234789-HpCDF	41.28	1.380e3	1.345e3	1.192	1.03	1.05	20.6	YES	NO	bb	bd	0.695
27	Total-heptafurans	39.94	1.244e2	1.248e2	1.218	1.00	1.05	3.5	YES	NO	db	db	0.058
28	Total-heptafurans	39.67	4.779e4	4.804e4	1.218	0.99	1.05	690.4	YES	NO	bd	bd	22.400
29	Total-heptafurans	39.41	3.523e2	3.020e2	1.218	1.17	1.05	6.9	YES	NO	bd	bb	0.153
30	1234678-HpCDF	39.01	2.300e4	2.205e4	1.243	1.04	1.05	336.3	YES	NO	bd	bb	9.693
31	OCDF	45.59	3.907e4	4.524e4	1.303	0.86	0.89	609.4	YES	NO	bd	bd	25.562
32	Total-penta1	27.45	1.380e4	8.783e3		1.57	1.55	194.3	YES	NO	bb	bd	3.639
33	Total-tetrafurans	24.76	3.648e3	5.277e3	1.072	0.69	0.77	32.8	YES	NO	MM	MM	0.993
34	Total-tetradiioxins	26.79	2.929e2	3.432e2	1.090	0.85	0.77	3.7	YES	NO	db	db	0.093
35	2378-TCDD	26.67	1.494e3	1.997e3	1.168	0.75	0.77	23.0	YES	NO	bd	bd	0.478
36	Total-tetradiioxins	26.31	4.521e2	5.737e2	1.090	0.79	0.77	6.8	YES	NO	bb	bd	0.151
37	Total-tetradiioxins	26.02	1.933e2	2.670e2	1.090	0.72	0.77	4.6	YES	NO	db	db	0.068

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:54:06 Pacific Standard Time

**ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk****TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-tetradiioxins	25.28	8.249e2	1.197e3	1.090	0.69	0.77	12.9	YES	NO	bb	db	0.297
39	Total-tetradiioxins	24.26	2.460e2	2.882e2	1.090	0.85	0.77	3.6	YES	NO	bb	bb	0.078
40	1368-TCDD	23.78	1.238e3	1.640e3	1.151	0.75	0.77	19.4	YES	NO	bb	bb	0.400
41	12378-PeCDD	31.79	1.671e3	1.081e3	1.152	1.55	1.55	18.9	YES	NO	bb	bb	0.610
42	Total-hexadiioxins	35.03	3.184e3	2.259e3	0.978	1.41	1.24	42.0	YES	NO	bd	bb	1.202
43	124679-HxCDD	34.26	1.298e4	1.057e4	1.153	1.23	1.24	183.0	YES	NO	bb	bb	4.432
44	123789-HxCDD	36.76	3.161e3	2.841e3	0.873	1.11	1.24	44.2	YES	NO	bb	bb	1.484
45	Total-hexadiioxins	36.54	1.048e3	9.312e2	0.978	1.13	1.24	12.4	YES	NO	dd	dd	0.437
46	123678-HxCDD	36.38	5.393e3	4.324e3	0.950	1.25	1.24	71.2	YES	NO	dd	dd	2.197
47	123478-HxCDD	36.27	1.877e3	1.385e3	0.934	1.35	1.24	27.2	YES	NO	dd	bd	0.757
48	Total-hexadiioxins	35.40	1.570e4	1.144e4	0.978	1.37	1.24	133.7	YES	NO	bd	bd	5.993
49	1234679-HPCDD	39.46	1.426e5	1.402e5	1.473	1.02	1.05	810.5	YES	NO	bd	bb	65.116
50	1234678-HpCDD	40.52	8.818e4	9.195e4	1.268	0.96	1.05	500.4	YES	NO	bb	bd	48.189
51	OCDD	45.35	5.560e5	6.142e5	1.089	0.91	0.89	2311.2	YES	NO	bd	bb	424.371

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**ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.00	1.877e5					15.1	YES		dd		
2	FUNCTION1 PFK	21.84	6.632e5					16.4	YES		dd		
3	FUNCTION1 PFK	21.78	2.533e5					15.2	YES		dd		
4	FUNCTION1 PFK	21.71	3.178e5					15.5	YES		dd		
5	FUNCTION1 PFK	21.65	3.561e5					15.5	YES		bd		
6	FUNCTION1 PFK	21.45	9.205e5					15.2	YES		db		
7	FUNCTION1 PFK	21.29	2.715e5					11.9	YES		dd		
8	FUNCTION1 PFK	21.12	3.175e5					11.4	YES		bd		
9	FUNCTION1 PFK	24.51	2.818e5					2.0	NO		db		
10	FUNCTION1 PFK	24.22	1.230e5					6.0	YES		dd		
11	FUNCTION1 PFK	24.11	5.431e5					8.9	YES		dd		
12	FUNCTION1 PFK	23.93	2.853e5					11.7	YES		dd		
13	FUNCTION1 PFK	23.83	2.675e5					12.3	YES		bd		
14	FUNCTION1 PFK	23.67	3.112e5					13.3	YES		db		
15	FUNCTION1 PFK	23.61	2.145e5					13.0	YES		dd		
16	FUNCTION1 PFK	23.55	3.293e5					13.4	YES		dd		
17	FUNCTION1 PFK	23.49	1.521e5					12.4	YES		dd		
18	FUNCTION1 PFK	23.40	3.804e5					13.5	YES		dd		
19	FUNCTION1 PFK	23.11	9.953e5					14.3	YES		dd		
20	FUNCTION1 PFK	22.77	1.565e6					14.7	YES		dd		
21	FUNCTION1 PFK	22.49	1.280e6					14.4	YES		dd		
22	FUNCTION1 PFK	22.24	3.868e5					14.7	YES		dd		
23	FUNCTION1 PFK	22.16	3.005e5					14.5	YES		dd		
24	FUNCTION1 PFK	22.04	4.441e5					15.6	YES		dd		
25	FUNCTION1 PFK	27.15	2.526e4					2.0	NO		bd		
26	FUNCTION1 PFK	27.00	2.608e4					1.4	NO		db		
27	FUNCTION1 PFK	26.89	3.643e4					1.9	NO		dd		
28	FUNCTION1 PFK	26.82	2.760e3					0.6	NO		bd		
29	FUNCTION1 PFK	26.76	2.933e3					0.7	NO		bb		
30	FUNCTION1 PFK	26.56	2.903e4					2.0	NO		db		
31	FUNCTION1 PFK	26.43	9.923e4					4.5	YES		dd		
32	FUNCTION1 PFK	26.41	5.341e4					4.2	YES		bd		
33	FUNCTION1 PFK	25.97	6.674e5					4.6	YES		db		
34	FUNCTION1 PFK	25.73	4.086e4					2.5	NO		bd		
35	FUNCTION1 PFK	25.44	6.761e3					0.8	NO		bb		
36	FUNCTION1 PFK	25.29	1.386e4					1.3	NO		db		
37	FUNCTION1 PFK	25.23	8.922e3					0.9	NO		dd		

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	25.19	5.475e3					0.7	NO		dd		
39	FUNCTION1 PFK	25.13	1.975e4					1.3	NO		bd		
40	FUNCTION1 PFK	24.69	2.402e4					1.4	NO		bb		
41	FUNCTION1 PFK	28.12	5.973e5					8.5	YES		bb		
42	FUNCTION1 PFK	27.83	1.302e6					22.8	YES		db		
43	FUNCTION1 PFK	27.67	4.165e5					17.9	YES		dd		
44	FUNCTION1 PFK	27.56	6.843e5					14.9	YES		dd		
45	FUNCTION1 PFK	27.32	3.831e5					8.3	YES		dd		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.63	2.708e4					4.1	YES		bb		0.000
2	FUNCTION2 PFK	28.25	3.602e4					4.9	YES		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.00	1.670e5					5.2	YES		bb		0.000
2	FUNCTION3 PFK	36.30	2.309e5					4.6	YES		bb		0.000
3	FUNCTION3 PFK	36.04	1.812e5					4.4	YES		bb		0.000
4	FUNCTION3 PFK	35.50	1.216e5					1.8	NO		bb		0.000
5	FUNCTION3 PFK	33.03	9.815e4					6.0	YES		bb		0.000

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**ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk****PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.11	4.075e3					0.6	NO		bb		
2	FUNCTION4 PFK	39.93	1.079e4					1.2	NO		bb		
3	FUNCTION4 PFK	39.74	8.650e3					1.4	NO		db		
4	FUNCTION4 PFK	39.70	5.292e3					1.0	NO		bd		
5	FUNCTION4 PFK	39.63	4.126e3					0.9	NO		db		
6	FUNCTION4 PFK	39.60	4.037e3					0.7	NO		bd		
7	FUNCTION4 PFK	39.49	3.467e3					0.4	NO		bb		
8	FUNCTION4 PFK	39.23	9.513e3					1.2	NO		bb		
9	FUNCTION4 PFK	39.17	1.063e3					0.5	NO		bb		
10	FUNCTION4 PFK	39.13	7.928e3					1.1	NO		bb		
11	FUNCTION4 PFK	38.75	4.002e3					0.8	NO		db		
12	FUNCTION4 PFK	38.69	1.327e4					1.1	NO		dd		
13	FUNCTION4 PFK	38.60	9.130e3					1.2	NO		bd		
14	FUNCTION4 PFK	38.50	1.096e3					0.5	NO		bb		
15	FUNCTION4 PFK	38.40	5.753e3					1.3	NO		bb		
16	FUNCTION4 PFK	38.26	1.064e3					0.5	NO		db		
17	FUNCTION4 PFK	38.23	1.304e4					1.5	NO		bd		
18	FUNCTION4 PFK	43.24	7.142e3					1.1	NO		bb		
19	FUNCTION4 PFK	42.98	9.594e3					1.3	NO		bb		
20	FUNCTION4 PFK	42.65	8.090e3					1.3	NO		db		
21	FUNCTION4 PFK	42.59	4.683e3					1.1	NO		dd		
22	FUNCTION4 PFK	42.56	2.966e4					1.6	NO		bd		
23	FUNCTION4 PFK	42.13	9.716e2					0.4	NO		bb		
24	FUNCTION4 PFK	42.08	9.081e2					0.4	NO		bb		
25	FUNCTION4 PFK	41.89	3.384e3					0.8	NO		bb		
26	FUNCTION4 PFK	41.38	8.300e3					1.1	NO		bb		
27	FUNCTION4 PFK	41.31	2.639e3					0.7	NO		bb		
28	FUNCTION4 PFK	41.19	5.901e3					0.9	NO		db		
29	FUNCTION4 PFK	41.13	1.246e4					1.4	NO		bd		
30	FUNCTION4 PFK	40.87	2.462e3					0.5	NO		bb		
31	FUNCTION4 PFK	40.50	9.971e2					0.5	NO		bb		
32	FUNCTION4 PFK	40.37	1.694e4					1.8	NO		bb		
33	FUNCTION4 PFK	40.18	3.059e3					0.3	NO		bb		



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ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.06	3.164e2					8.4	YES		bd		0.000
2	FUNCTION1 HXCD...	26.94	7.195e1					2.0	NO		bb		0.000
3	FUNCTION1 HXCD...	26.65	9.884e1					3.2	YES		db		0.000
4	FUNCTION1 HXCD...	26.56	1.487e2					4.7	YES		bd		0.000
5	FUNCTION1 HXCD...	26.40	6.282e2					17.8	YES		bb		0.000
6	FUNCTION1 HXCD...	26.18	3.237e3					83.3	YES		db		0.000
7	FUNCTION1 HXCD...	26.00	2.328e2					4.9	YES		bd		0.000
8	FUNCTION1 HXCD...	25.61	1.468e2					3.7	YES		bb		0.000
9	FUNCTION1 HXCD...	25.37	2.500e2					8.1	YES		bb		0.000
10	FUNCTION1 HXCD...	25.17	7.118e1					3.0	NO		bb		0.000
11	FUNCTION1 HXCD...	24.02	4.242e2					8.5	YES		bb		0.000
12	FUNCTION1 HXCD...	22.56	2.653e2					7.1	YES		db		0.000
13	FUNCTION1 HXCD...	22.48	8.390e1					2.5	NO		dd		0.000
14	FUNCTION1 HXCD...	22.39	1.386e2					3.0	NO		bd		0.000
15	FUNCTION1 HXCD...	27.92	1.069e2					3.1	YES		db		0.000
16	FUNCTION1 HXCD...	27.85	8.868e1					2.2	NO		bd		0.000
17	FUNCTION1 HXCD...	27.15	7.400e1					1.6	NO		db		0.000

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**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	24.01	1.557e2					3.6	YES		bb		0.000
2	FUNCTION1 HPCD...	23.61	1.139e3					24.0	YES		db		0.000
3	FUNCTION1 HPCD...	23.54	7.275e2					15.6	YES		dd		0.000
4	FUNCTION1 HPCD...	23.31	3.043e2					4.8	YES		bd		0.000
5	FUNCTION1 HPCD...	22.81	7.444e1					3.3	YES		bb		0.000
6	FUNCTION1 HPCD...	22.68	2.048e2					6.1	YES		bb		0.000
7	FUNCTION1 HPCD...	22.53	8.785e1					3.5	YES		db		0.000
8	FUNCTION1 HPCD...	22.46	2.426e2					3.4	YES		dd		0.000
9	FUNCTION1 HPCD...	22.30	9.970e3					237.2	YES		bd		0.000
10	FUNCTION1 HPCD...	22.06	1.193e2					3.5	YES		bb		0.000
11	FUNCTION1 HPCD...	21.35	1.598e2					2.9	NO		db		0.000
12	FUNCTION1 HPCD...	21.15	4.207e3					96.1	YES		bd		0.000
13	FUNCTION1 HPCD...	27.86	7.741e1					2.3	NO		bb		0.000
14	FUNCTION1 HPCD...	27.62	1.904e2					2.1	NO		bb		0.000
15	FUNCTION1 HPCD...	27.20	1.081e2					2.3	NO		bb		0.000
16	FUNCTION1 HPCD...	26.96	1.034e2					2.8	NO		bb		0.000
17	FUNCTION1 HPCD...	26.49	1.126e2					3.8	YES		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.43	7.674e1					1.6	NO		bb		0.000
2	FUNCTION2 HPCD...	30.16	2.881e2					4.1	YES		bb		0.000
3	FUNCTION2 HPCD...	29.86	7.612e1					1.4	NO		bb		0.000
4	FUNCTION2 HPCD...	29.24	2.010e2					2.6	NO		bb		0.000
5	FUNCTION2 HPCD...	28.69	9.980e1					1.3	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.22	1.141e2					2.7	NO		bb		0.000
2	FUNCTION3 OCDPE	34.28	1.094e2					2.5	NO		bb		0.000

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**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.66	9.387e3					229.8	YES		bb		0.000
2	FUNCTION4 NCDPE	40.89	1.332e2					4.2	YES		bb		0.000
3	FUNCTION4 NCDPE	38.97	1.007e2					3.2	YES		bb		0.000

**ETHERS6**

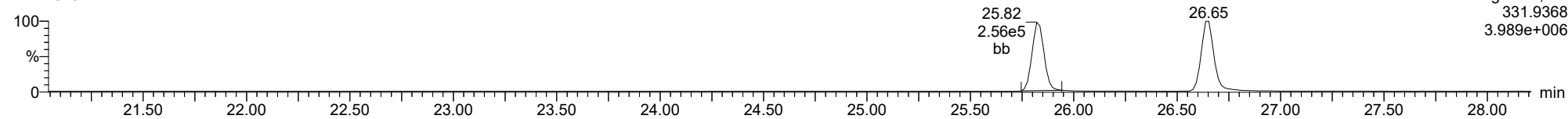
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1	FUNCTION5 DCDPE	45.59	8.833e1					2.4	NO		bb		0.000
2	FUNCTION5 DCDPE	45.33	7.526e1					1.2	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

**13C-1234-TCDD**

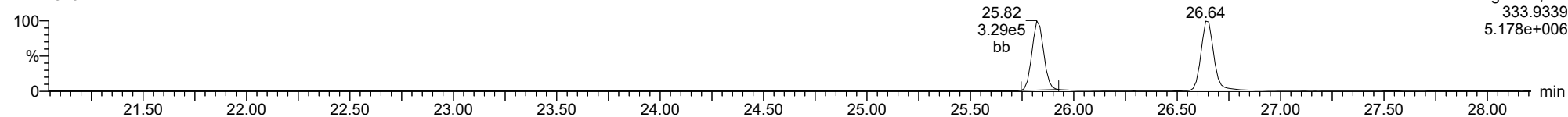
22122816



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3.989e+006

**13C-1234-TCDD**

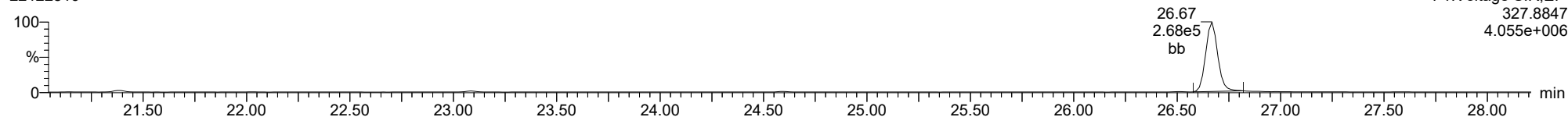
22122816



F1:Voltage SIR,El+  
333.9339  
5.178e+006

**37CL-2378-TCDD**

22122816

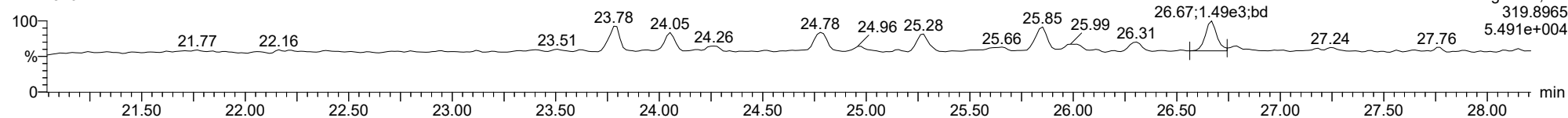


F1:Voltage SIR,El+  
327.8847  
4.055e+006

ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

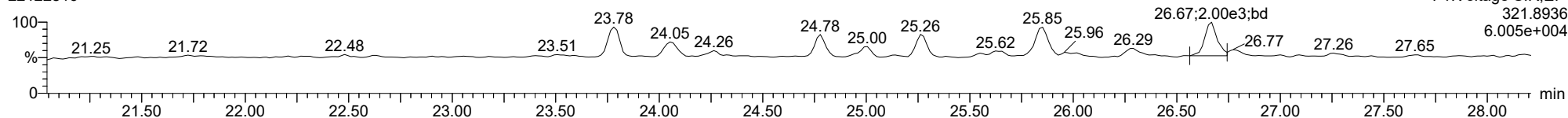
**2378-TCDD**

22122816



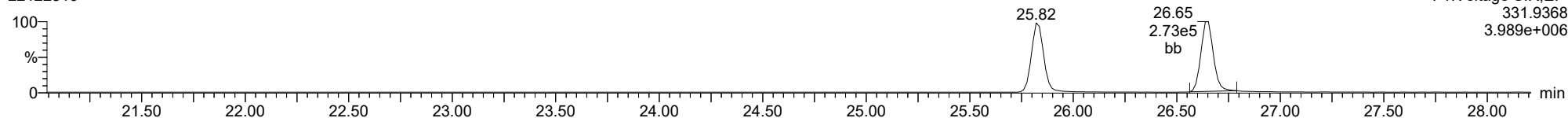
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22122816



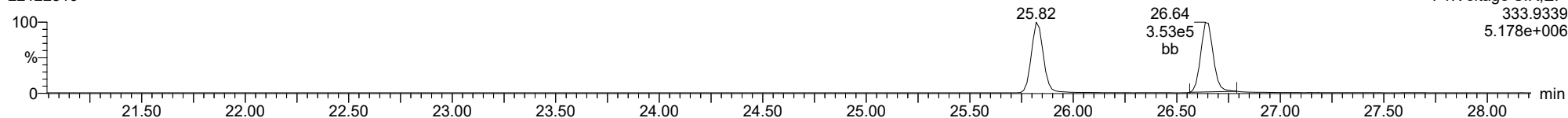
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22122816



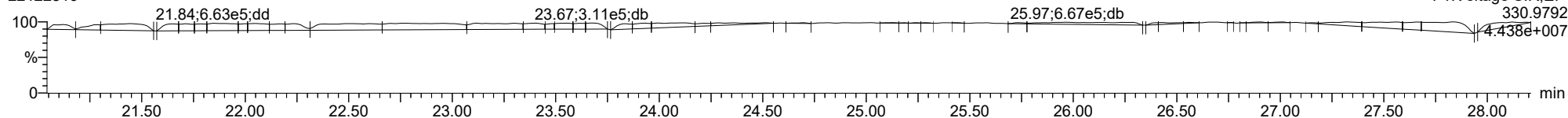
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22122816



**FUNCTION1 PFK**

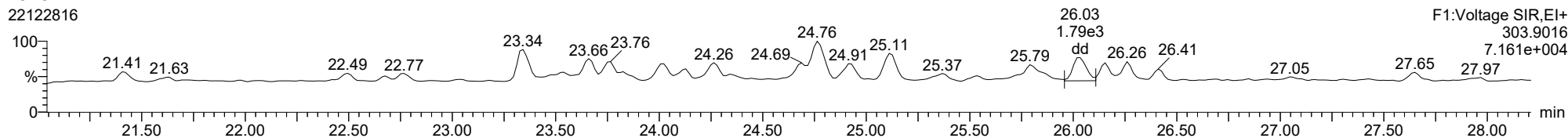
22122816



ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

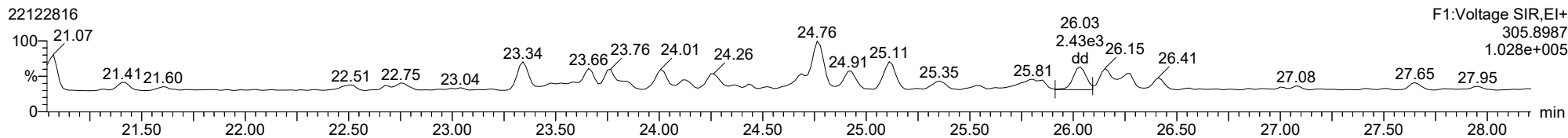
2378-TCDF

22122816



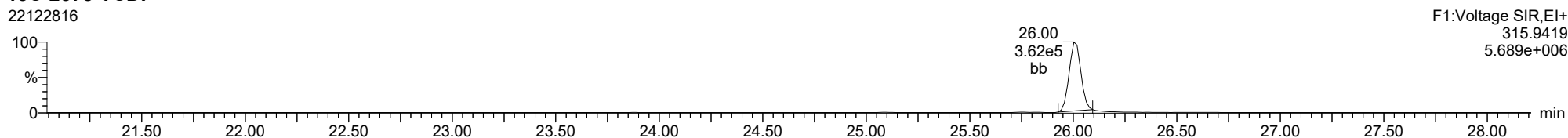
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22122816



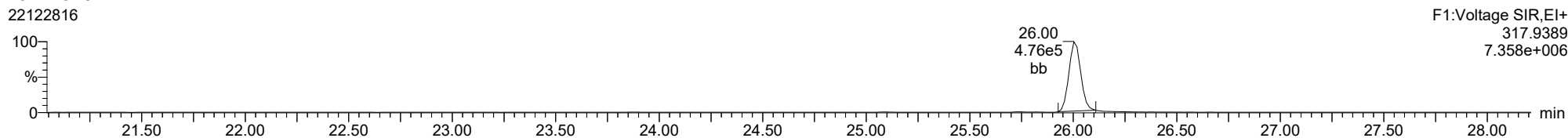
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22122816



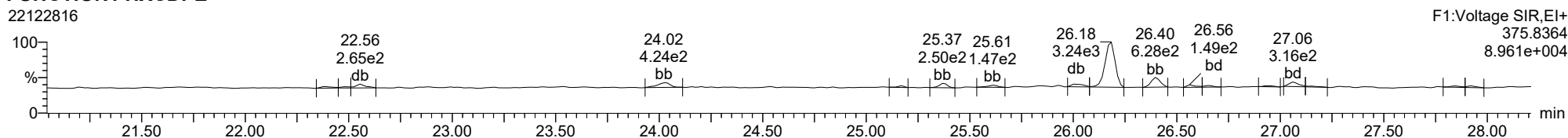
13C-2378-TCDF

22122816



FUNCTION1 HXCDPE

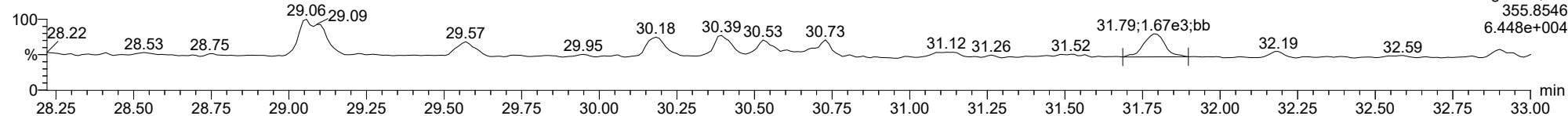
22122816



ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

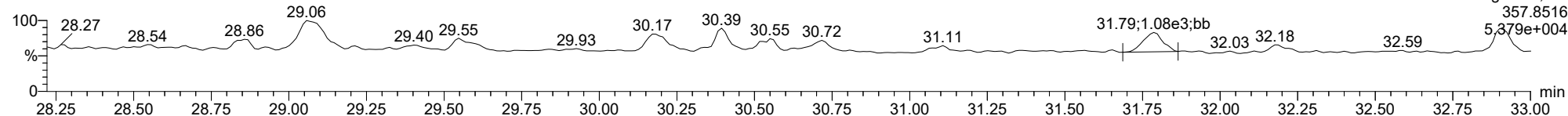
**12378-PeCDD**

22122816



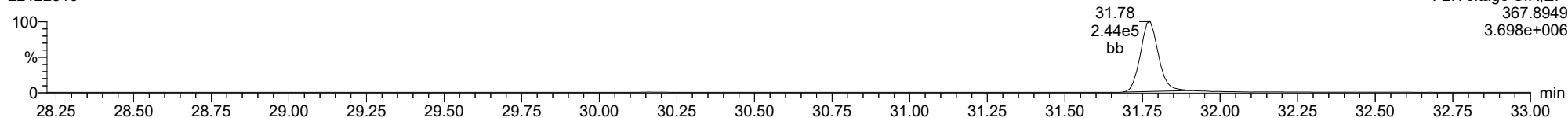
**12378-PeCDD**

22122816



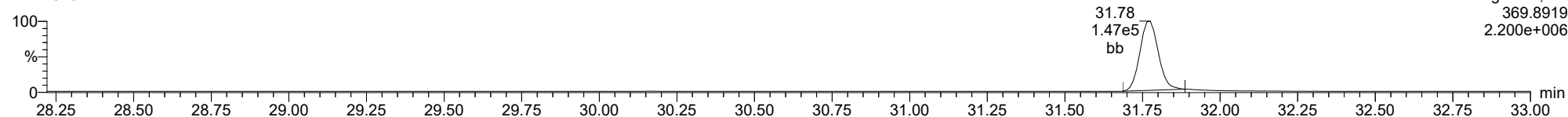
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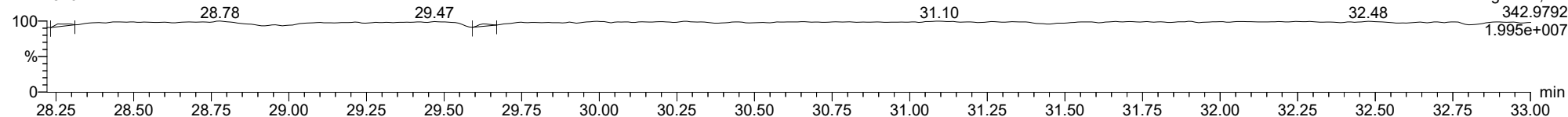
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22122816



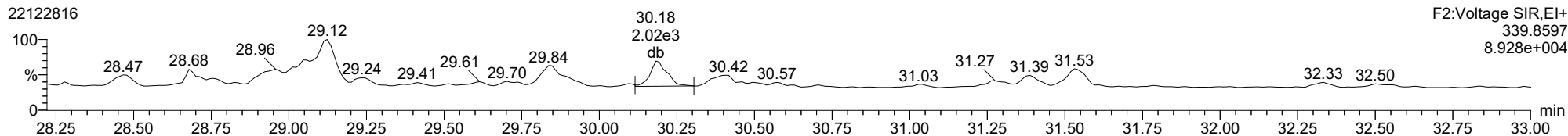
**FUNCTION2 PFK**

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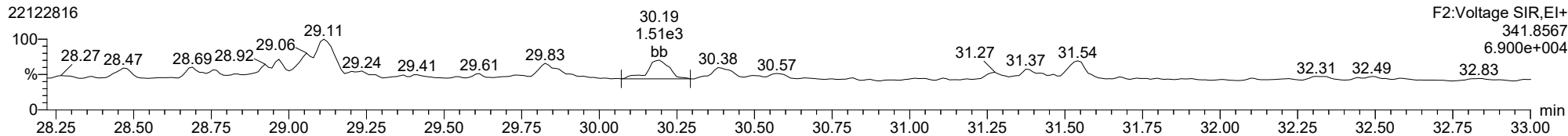


ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

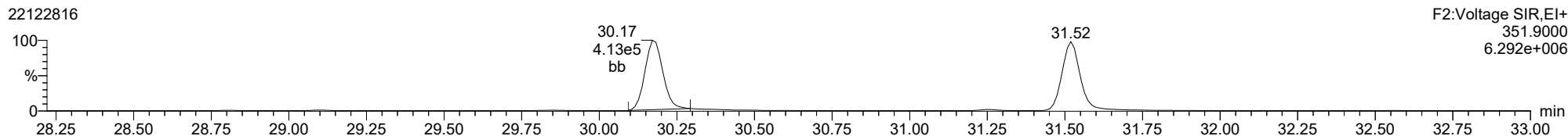
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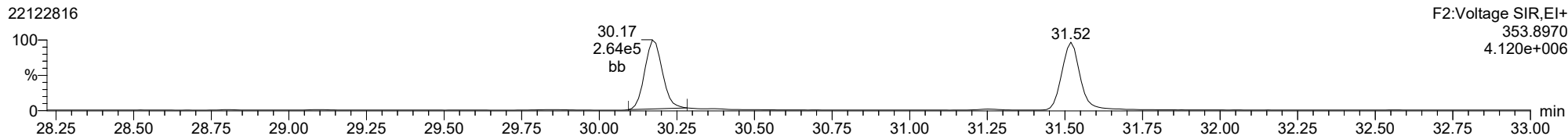
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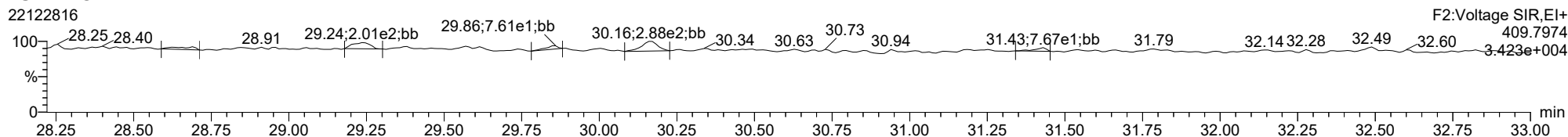
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13C-12378-PeCDF



FUNCTION2 HPCDPE

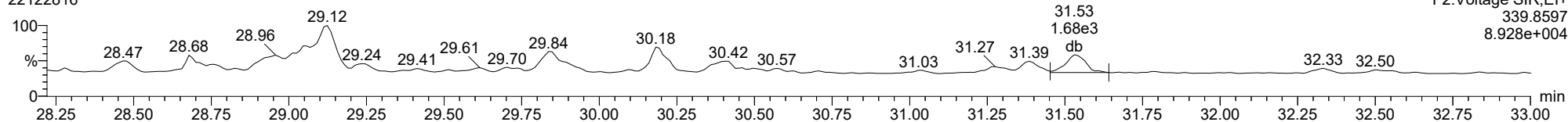




ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

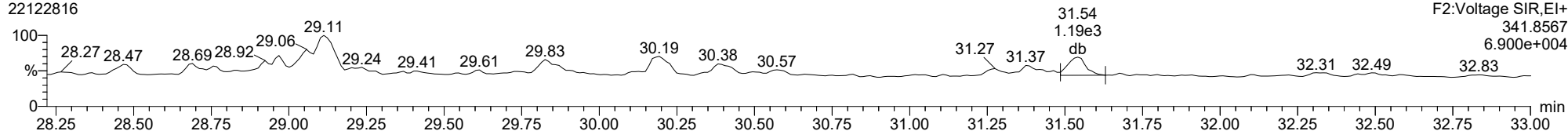
**23478-PeCDF**

22122816



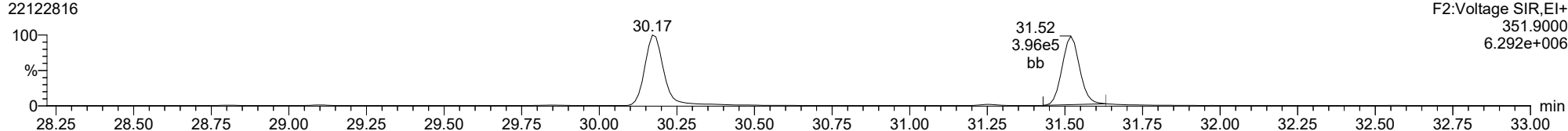
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22122816



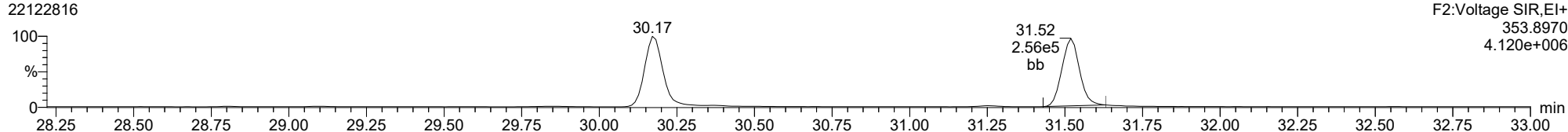
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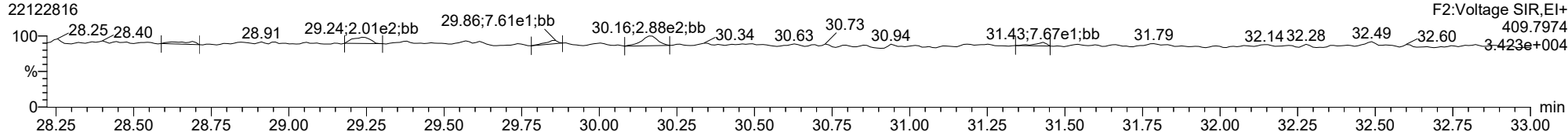
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22122816



**FUNCTION2 HPCDPE**

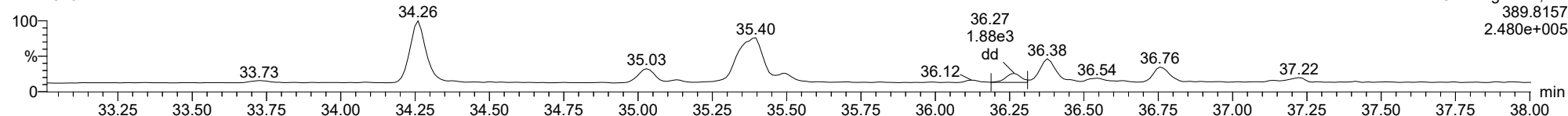
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ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

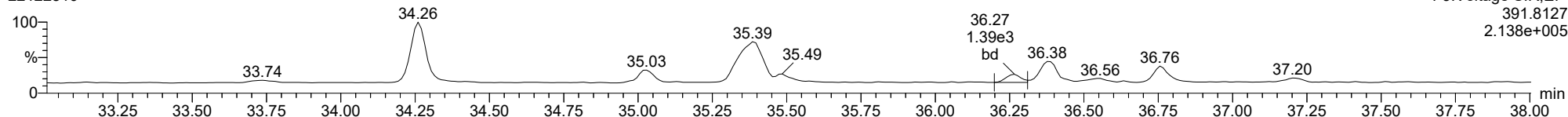
123478-HxCDD

22122816



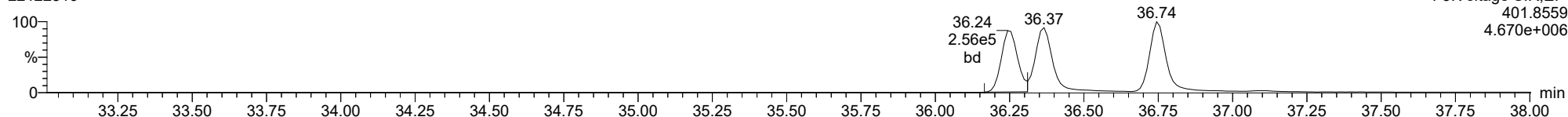
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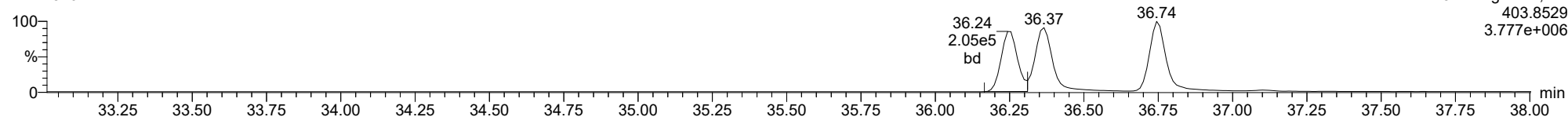
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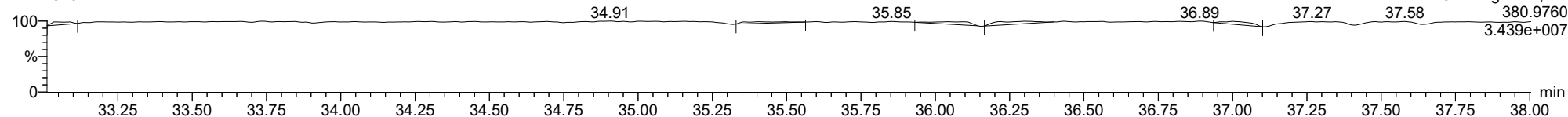
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22122816



FUNCTION3 PFK

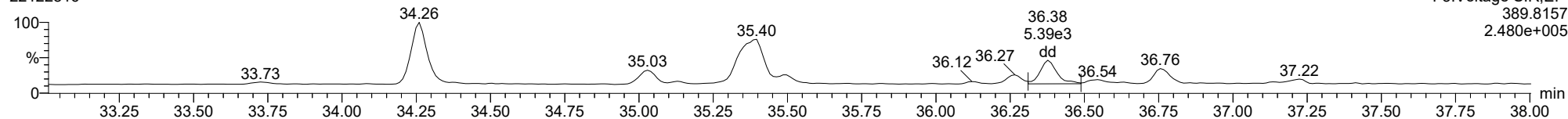
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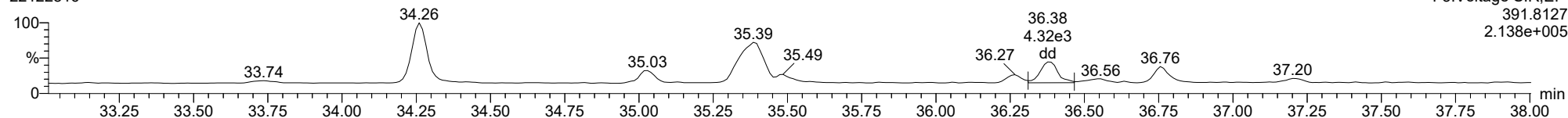
**123678-HxCDD**

22122816



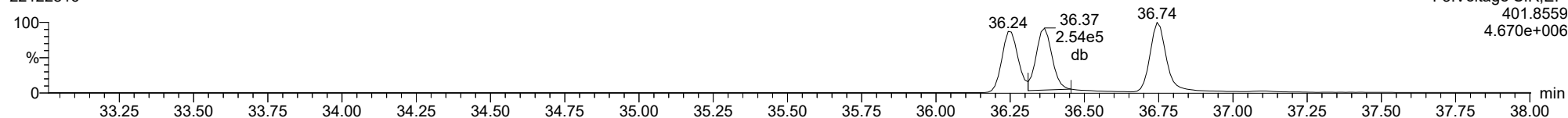
**123678-HxCDD**

22122816



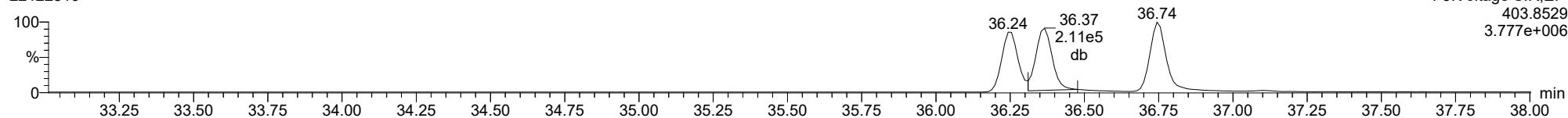
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22122816



**13C-123678-HxCDD**

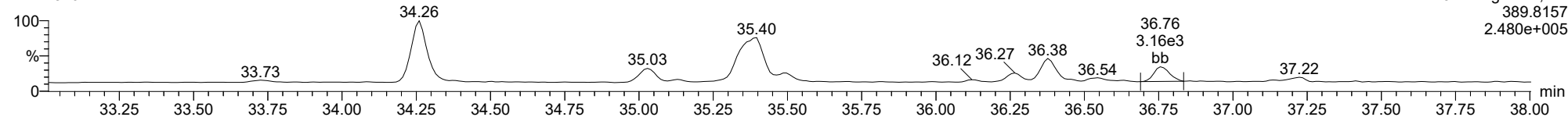
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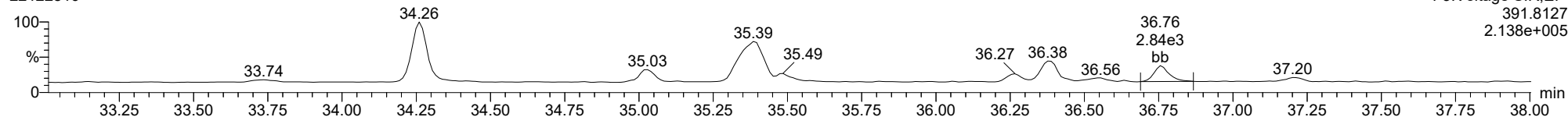
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22122816



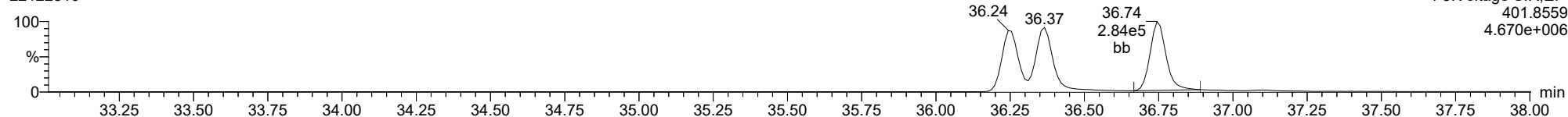
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22122816



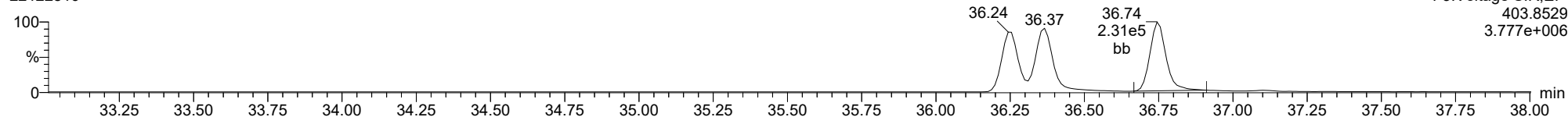
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22122816



**13C-123789-HxCDD**

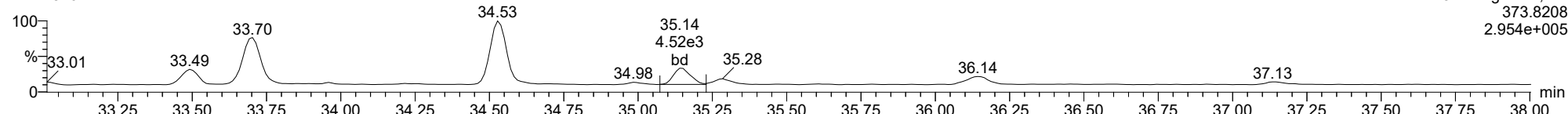
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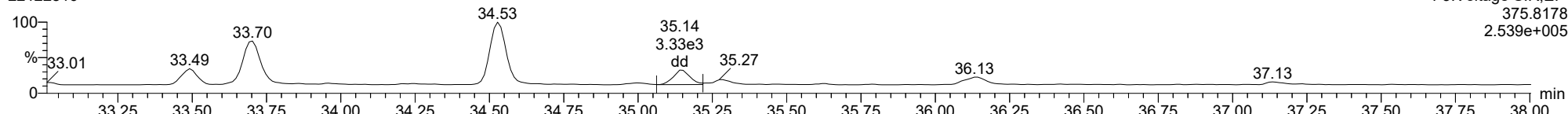
123478-HxCDF

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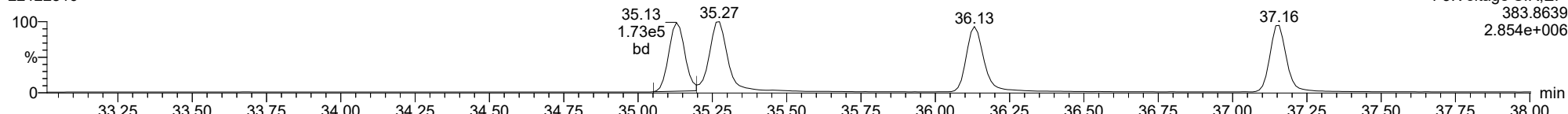
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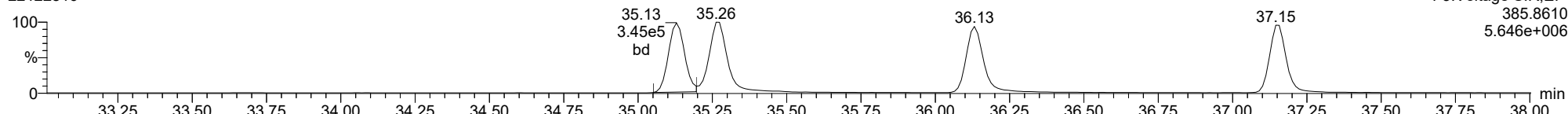
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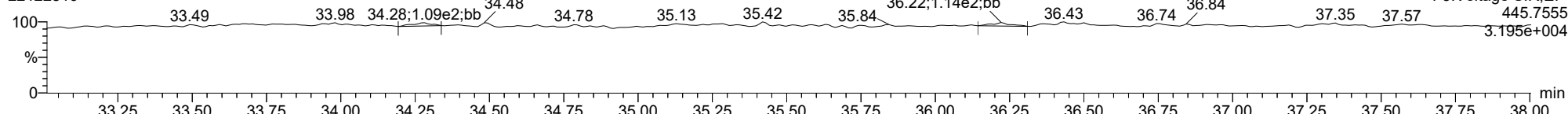
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22122816



FUNCTION3 OCDPE

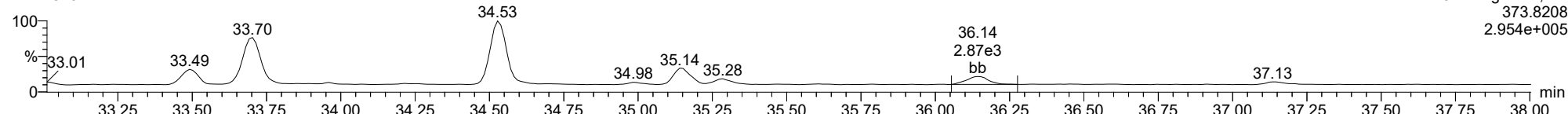
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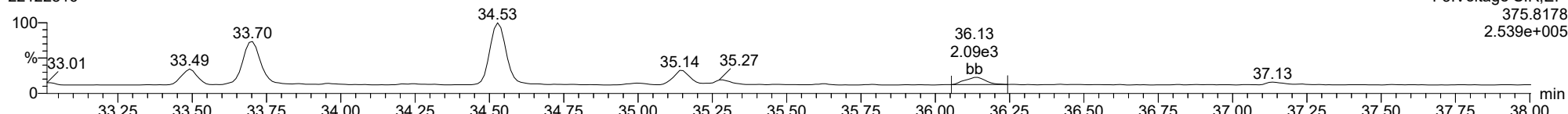
234678-HxCDF

22122816



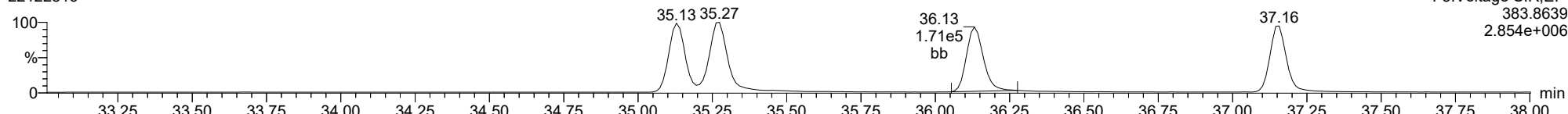
234678-HxCDF

22122816



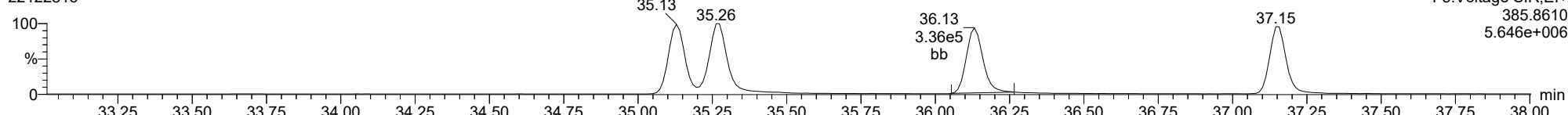
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22122816



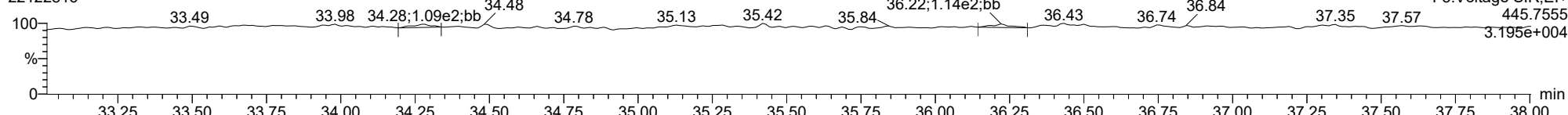
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FUNCTION3 OCDPE

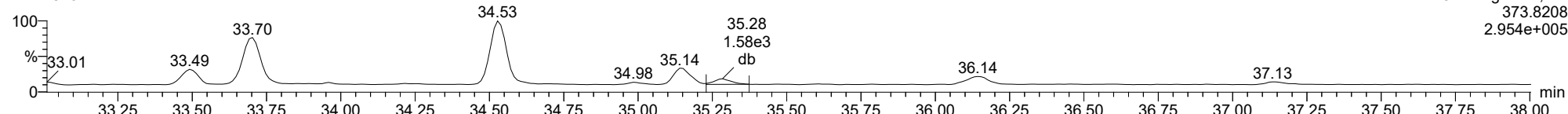
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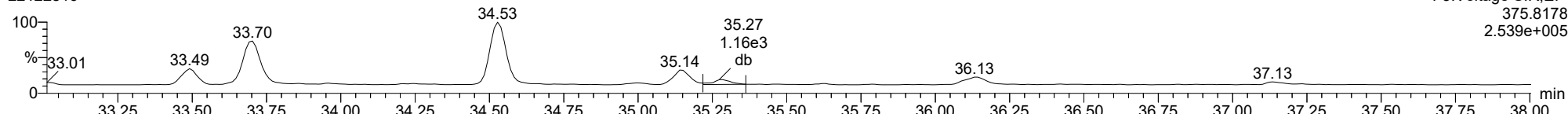
123678-HxCDF

22122816



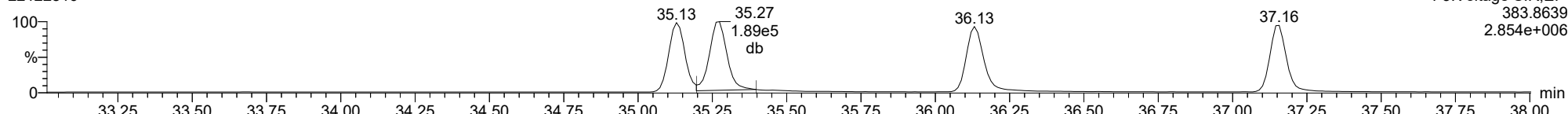
123678-HxCDF

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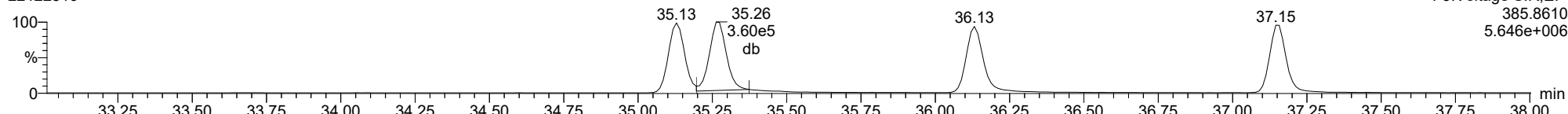
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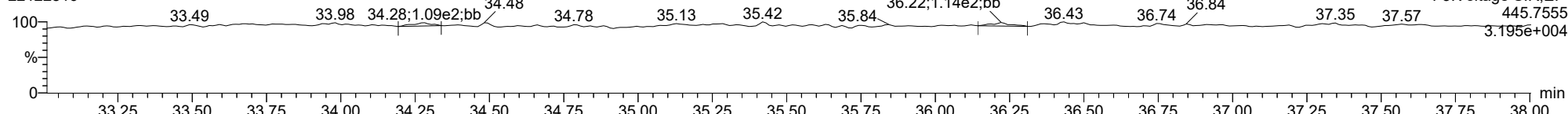
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FUNCTION3 OCDPE

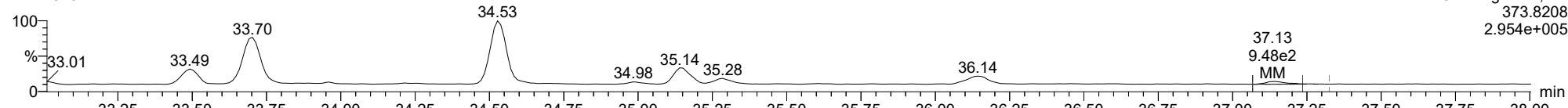
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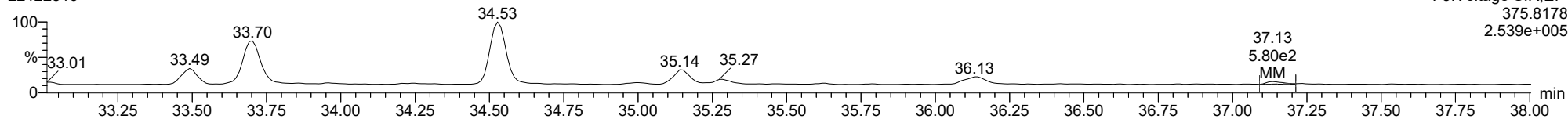
123789-HxCDF

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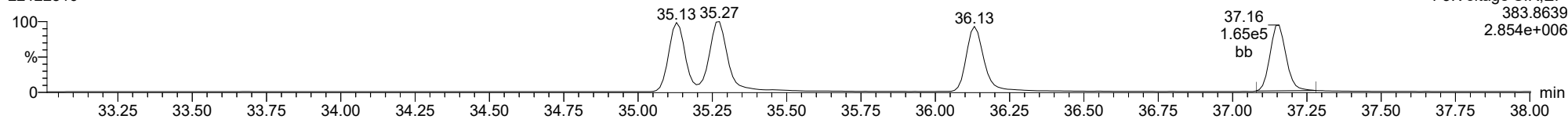
123789-HxCDF

22122816



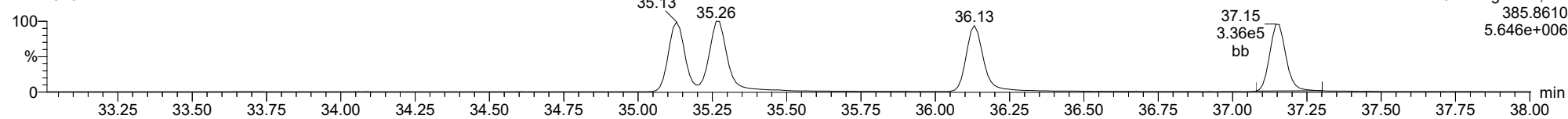
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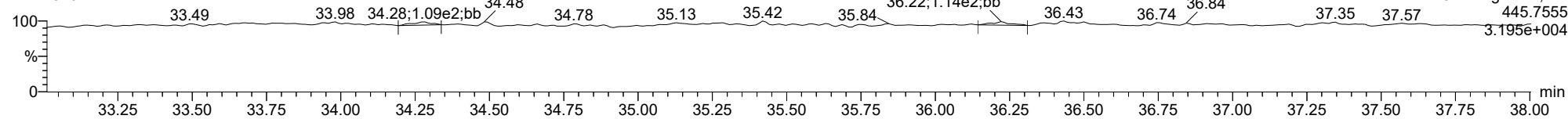
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FUNCTION3 OCDPE

22122816

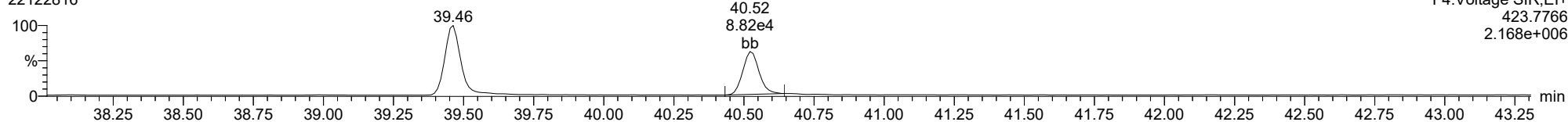




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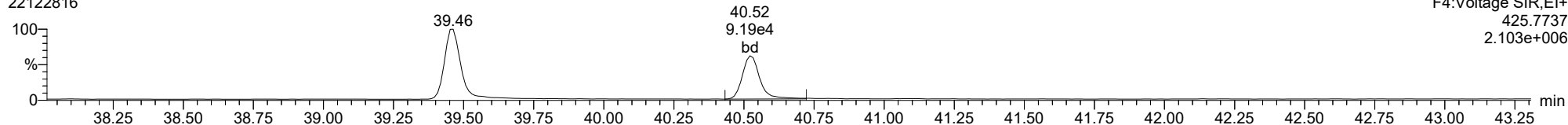
**1234678-HpCDD**

22122816



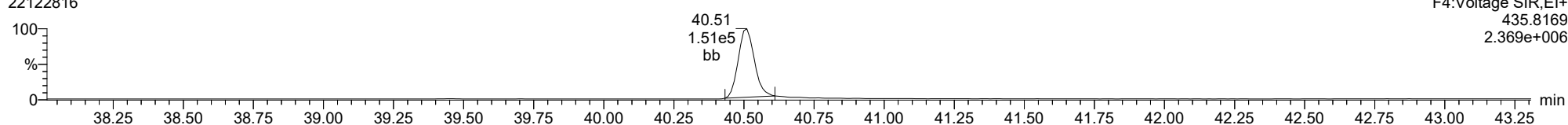
**1234678-HpCDD**

22122816



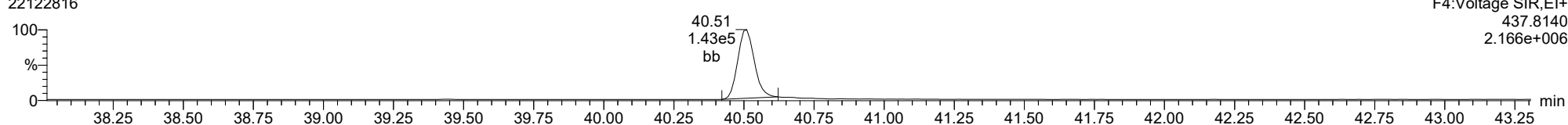
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22122816



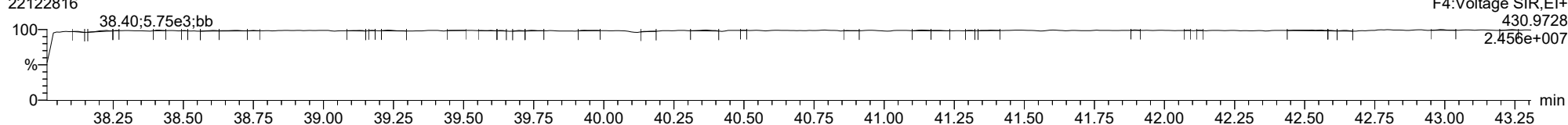
**13C-1234678-HpCDD**

22122816



**FUNCTION4 PFK**

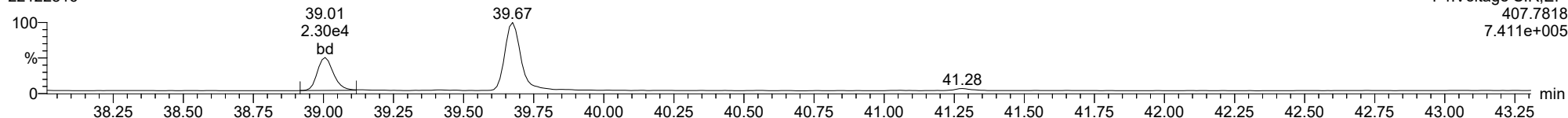
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ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

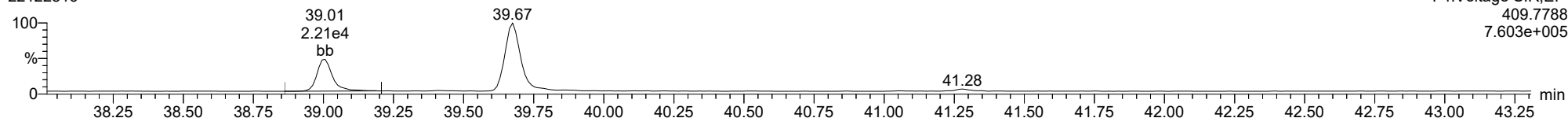
1234678-HpCDF

22122816



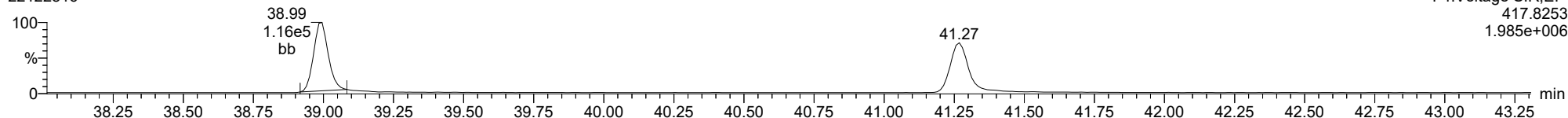
1234678-HpCDF

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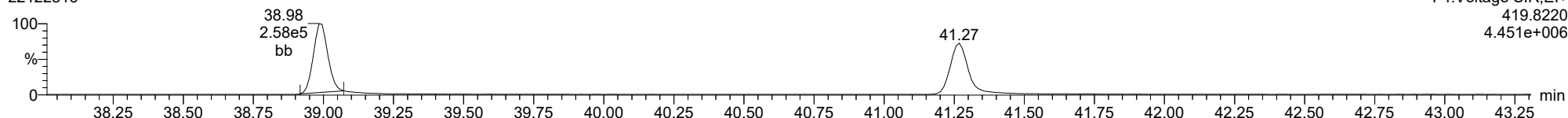
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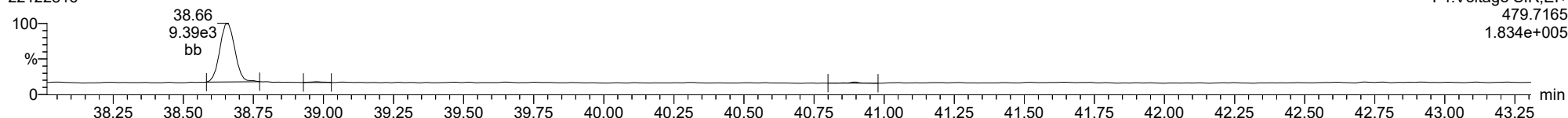
13C-1234678-HpCDF

22122816



FUNCTION4 NCDPE

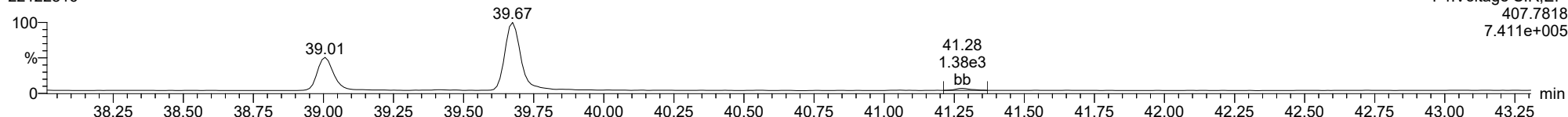
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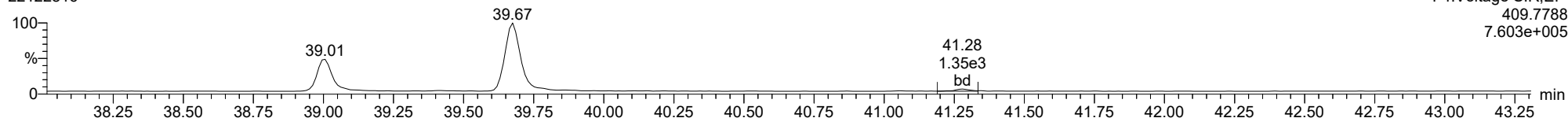
**1234789-HpCDF**

22122816



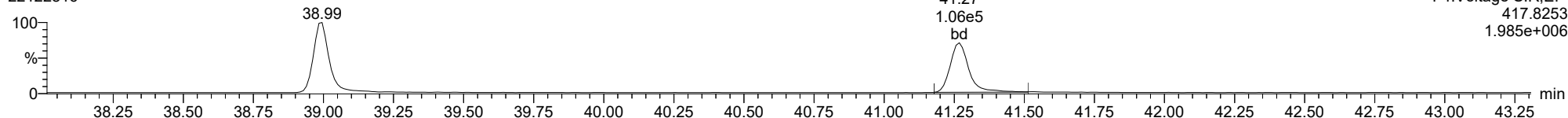
**1234789-HpCDF**

22122816



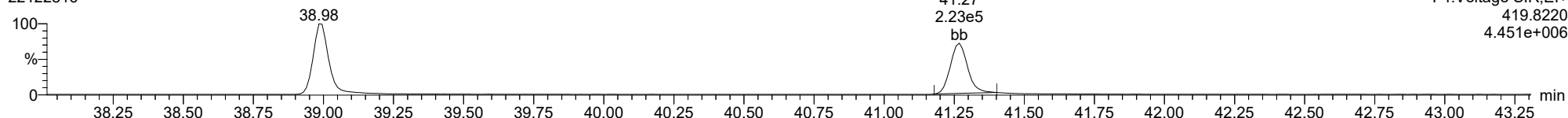
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22122816



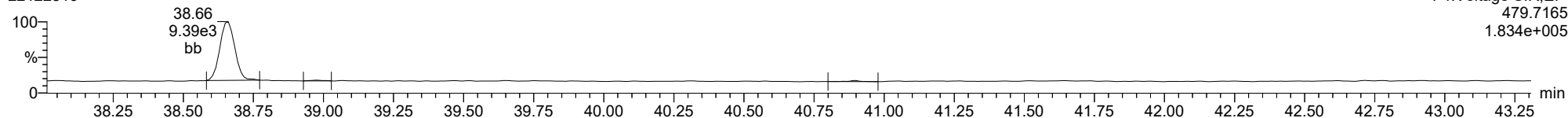
**13C-1234789-HpCDF**

22122816



**FUNCTION4 NCDPE**

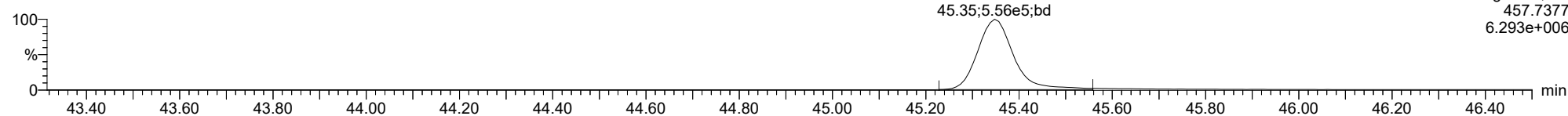
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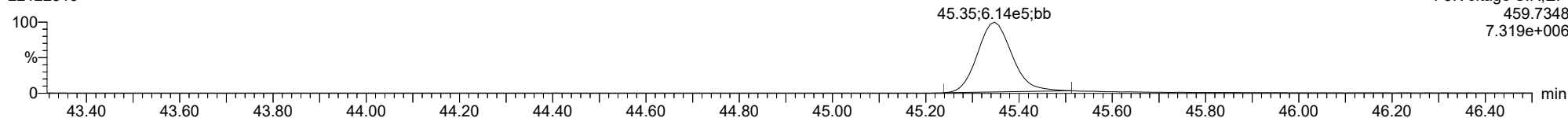
**OCDD**

22122816



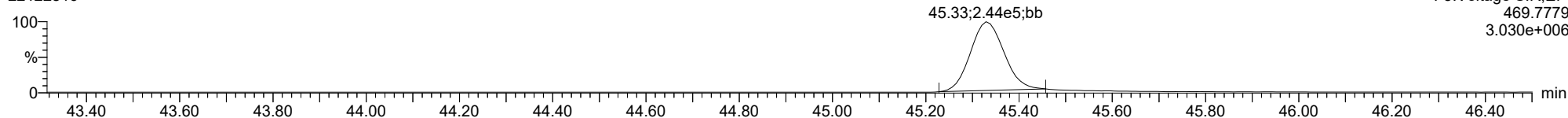
**OCDD**

22122816



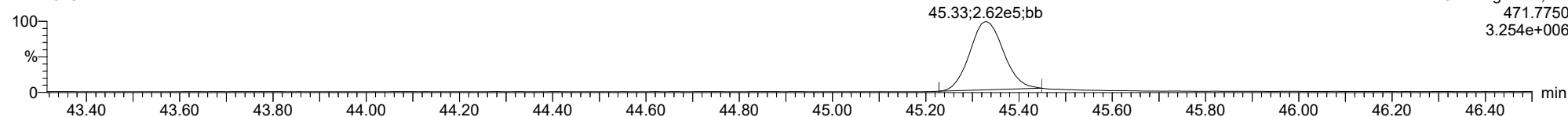
**13C-OCDD**

22122816



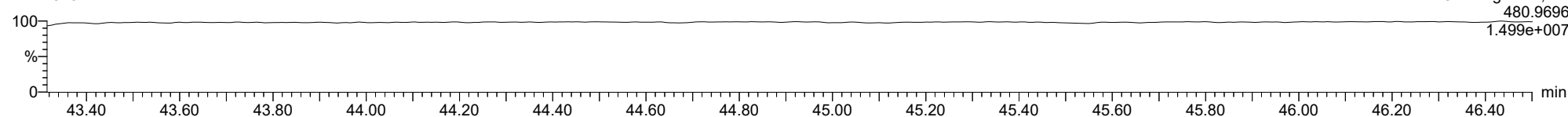
**13C-OCDD**

22122816

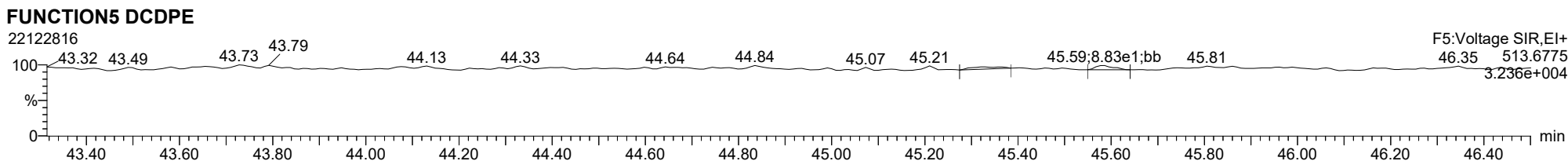
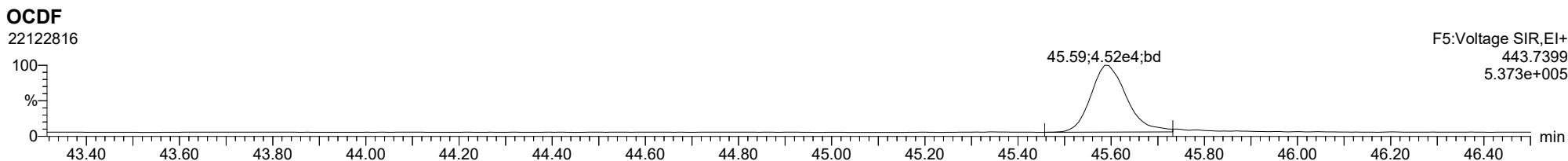
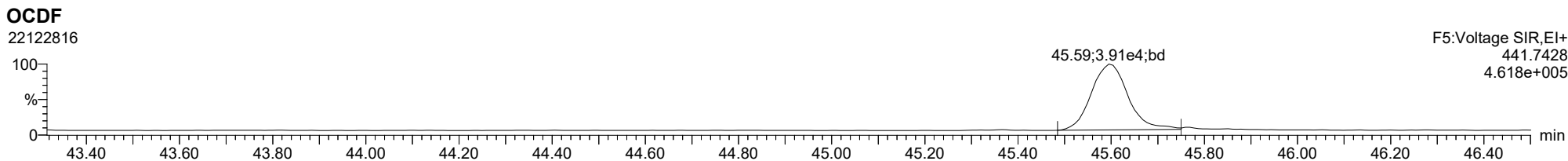


**FUNCTION5 PFK**

22122816



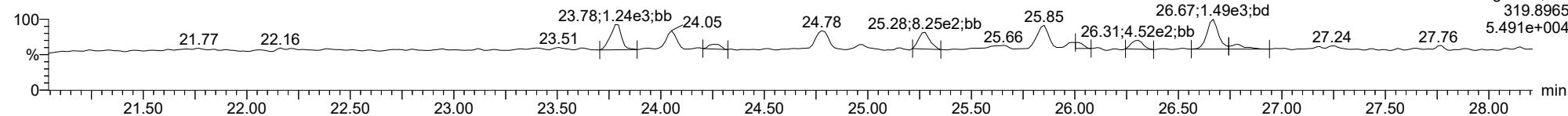
ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk



ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

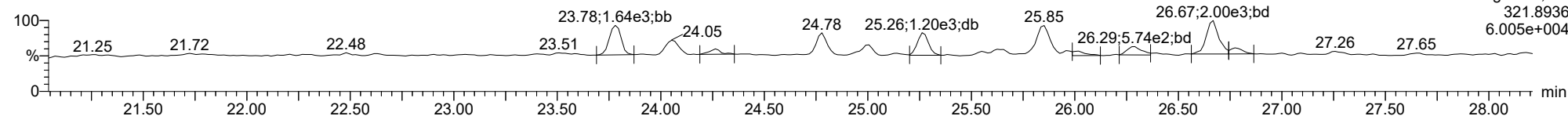
**Total-tetradioxins**

22122816



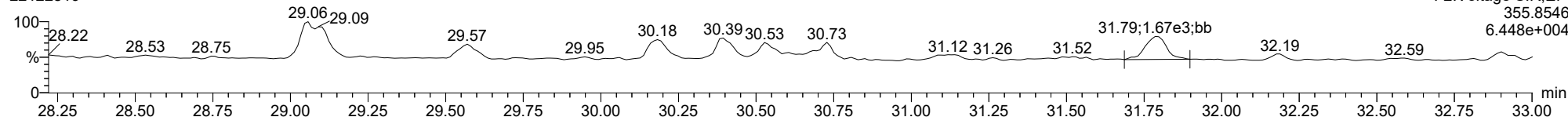
**Total-tetradioxins**

22122816



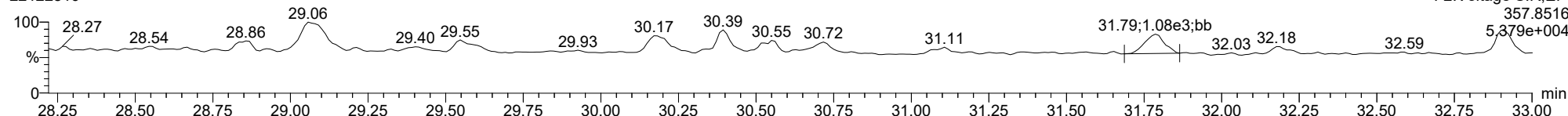
**Total-pentadioxins**

22122816



**Total-pentadioxins**

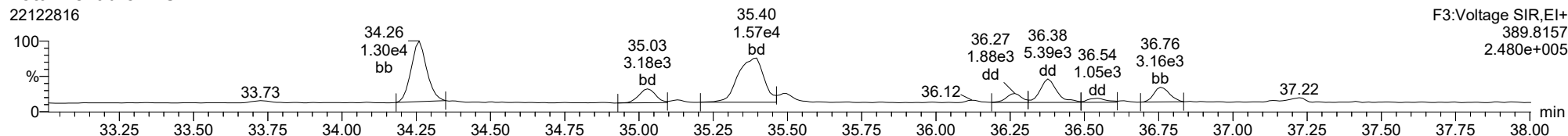
22122816



ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

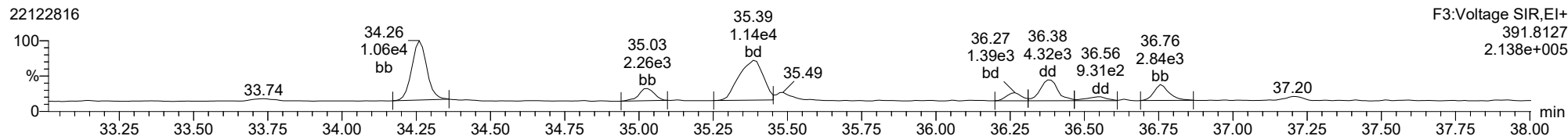
**Total-hexadioxins**

22122816



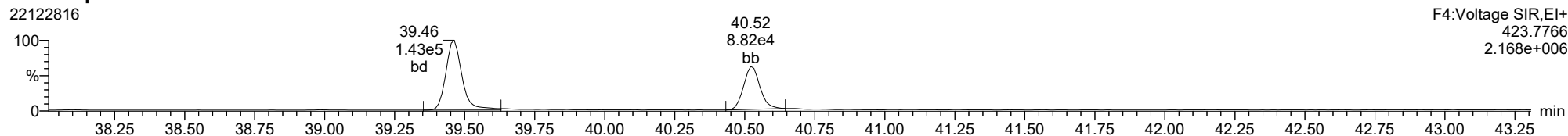
**Total-hexadioxins**

22122816



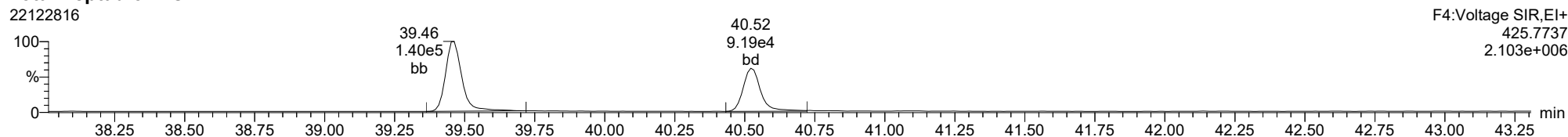
**Total-heptadioxins**

22122816



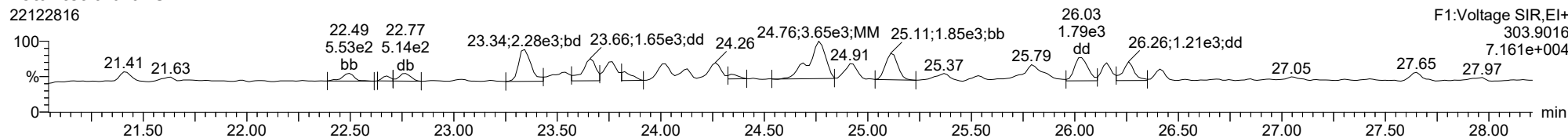
**Total-heptadioxins**

22122816

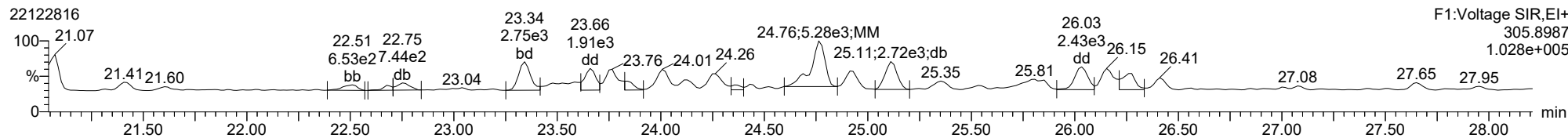


ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

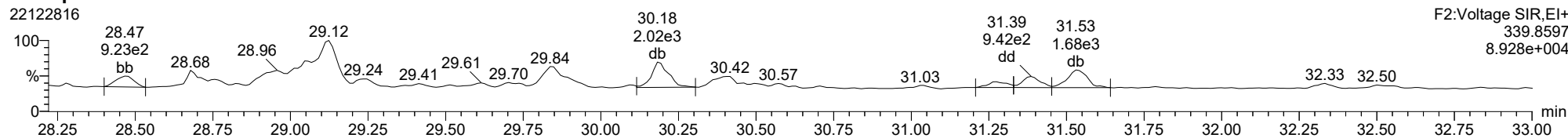
**Total-tetrafurans**



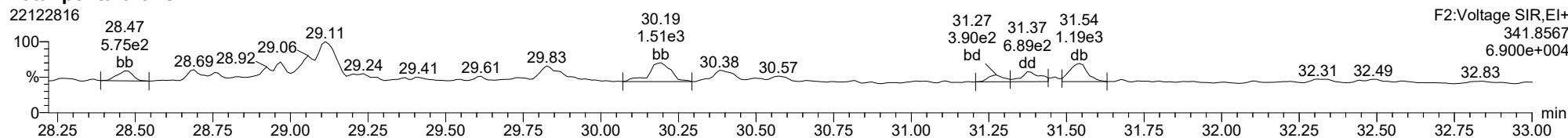
**Total-tetrafurans**



**Total-pentafurans**



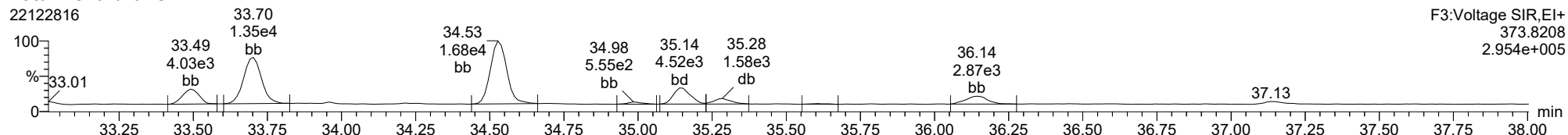
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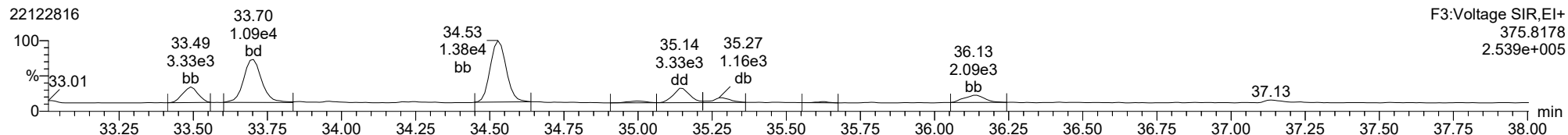


ID: BLK0419-SRM1, Name: 22122816, Date: 28-Dec-2022, Time: 23:14:22, Conditions: AUTOSPEC01, User: pk

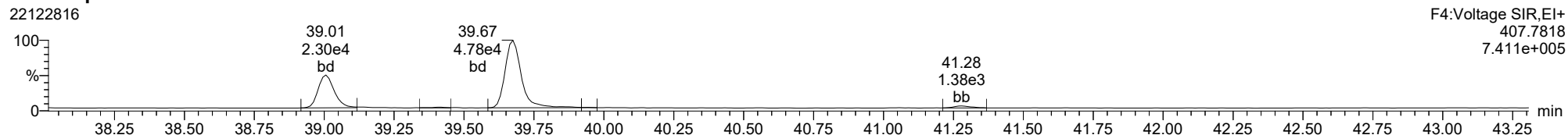
**Total-hexafluorans**



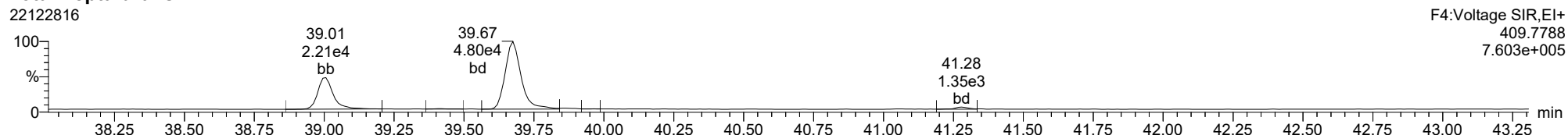
**Total-hexafluorans**



**Total-heptafluorans**



**Total-heptafluorans**





**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FC00062

Instrument: AUTOSPEC01

Calibration Date: 03/23/2022

Column (1): RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,3,7,8-TCDF			0.5	0.9637162	2	1.015644	10	0.9916337	40	0.9658294	200	0.986679
2,3,7,8-TCDD			0.5	1.255829	2	1.147744	10	1.07924	40	1.169757	200	1.186909
1,2,3,7,8-PeCDF	0.5	0.90743	2.5	0.9203157	10	0.8762971	50	0.9009024	200	0.9094881	1000	0.9192127
2,3,4,7,8-PeCDF	0.5	1.102915	2.5	1.00137	10	0.9832538	50	0.9606277	200	0.9875864	1000	1.009531
1,2,3,7,8-PeCDD	0.5	1.139582	2.5	1.139669	10	1.154561	50	1.164195	200	1.148213	1000	1.164707
1,2,3,4,7,8-HxCDF	0.5	1.101943	2.5	1.021312	10	1.034285	50	1.034282	200	1.036387	1000	1.044057
1,2,3,6,7,8-HxCDF	0.5	0.9378779	2.5	1.067899	10	1.025739	50	1.022493	200	1.036363	1000	1.026378
2,3,4,6,7,8-HxCDF	0.5	1.243336	2.5	1.098523	10	1.05323	50	1.063357	200	1.04721	1000	1.099998
1,2,3,7,8,9-HxCDF	0.5	1.144213	2.5	0.9266741	10	0.9535663	50	0.9862844	200	0.9697081	1000	0.9730174
1,2,3,4,7,8-HxCDD	0.5	0.9468227	2.5	0.9204612	10	0.9335842	50	0.9307683	200	0.9299661	1000	0.9420909
1,2,3,6,7,8-HxCDD	0.5	0.9668344	2.5	0.8371198	10	0.9827417	50	1.001829	200	0.9489363	1000	0.964721
1,2,3,7,8,9-HxCDD	0.5	0.9185552	2.5	0.8005933	10	0.8937062	50	0.8557187	200	0.8705659	1000	0.9021031
1,2,3,4,6,7,8-HpCDF	0.5	1.355939	2.5	1.185939	10	1.229098	50	1.190595	200	1.247265	1000	1.250453
1,2,3,4,7,8,9-HpCDF	0.5	1.245596	2.5	1.064446	10	1.189338	50	1.272289	200	1.187504	1000	1.193357
1,2,3,4,6,7,8-HpCDD	0.5	1.392898	2.5	1.298817	10	1.186511	50	1.209671	200	1.283217	1000	1.237548
OCDF	1	1.343362	5	1.313106	20	1.286028	100	1.221583	400	1.31391	2000	1.339322
OCDD			5	1.164481	20	1.084482	100	1.074982	400	1.05666	2000	1.065749
13C12-2,3,7,8-TCDF	100	1.739509	100	1.665883	100	1.725032	100	1.709088	100	1.806949	100	1.861871
13C12-2,3,7,8-TCDD	100	1.046454	100	1.031986	100	1.058097	100	1.129263	100	1.076662	100	1.145971
13C12-1,2,3,7,8-PeCDF	100	1.411277	100	1.327848	100	1.394647	100	1.387483	100	1.469082	100	1.660222
13C12-2,3,4,7,8-PeCDF	100	1.295623	100	1.259189	100	1.325419	100	1.330355	100	1.403424	100	1.580567
13C12-1,2,3,7,8-PeCDD	100	0.7461825	100	0.719498	100	0.7490906	100	0.7483488	100	0.7979726	100	0.8971815
13C12-1,2,3,4,7,8-HxCDF	100	1.100716	100	1.08919	100	1.092494	100	1.123218	100	1.104458	100	1.058628
13C12-1,2,3,6,7,8-HxCDF	100	1.173245	100	1.15071	100	1.165367	100	1.207758	100	1.178363	100	1.130592
13C12-2,3,4,6,7,8-HxCDF	100	1.008641	100	1.000944	100	1.017807	100	1.035996	100	1.06712	100	1.006736
13C12-1,2,3,7,8,9-HxCDF	100	0.8465629	100	0.8609997	100	0.8742316	100	0.8777903	100	0.9145932	100	0.8983098
13C12-1,2,3,4,7,8-HxCDD	100	0.9843949	100	0.9844106	100	0.9544472	100	0.980243	100	0.9919277	100	0.9541087
13C12-1,2,3,6,7,8-HxCDD	100	1.079961	100	1.110466	100	1.087945	100	1.054972	100	1.059159	100	1.006567



**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FC00062	Instrument:	AUTOSPEC01
Calibration Date:	03/23/2022	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
13C12-1,2,3,4,6,7,8-HpCDF	100	0.8848214	100	0.9021607	100	0.9602943	100	0.9452988	100	0.9320491	100	0.9282932
13C12-1,2,3,4,7,8,9-HpCDF	100	0.6638638	100	0.6979426	100	0.7089863	100	0.6920329	100	0.7647477	100	0.7617052
13C12-1,2,3,4,6,7,8-HpCDD	100	0.5718604	100	0.566726	100	0.5787793	100	0.5903204	100	0.5866903	100	0.5953127
13C12-OCDD	200	0.4953552	200	0.4548763	200	0.4868895	200	0.5134434	200	0.5322678	200	0.568517
37C14-2,3,7,8-TCDD	0.1	1.140006	0.5	1.172762	2	1.07291	10	1.09879	40	1.073551	200	1.1626
13C12-1,2,3,4-TCDD	100	1	100	1	100	1	100	1	100	1	100	1
13C12-1,2,3,7,8,9-HxCDD	100	1	100	1	100	1	100	1	100	1	100	1



**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FC00062	Instrument:	AUTOSPEC01
Calibration Date:	03/23/2022	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2,3,7,8-TCDF	0.9847005	2.2			RSD ()	
2,3,7,8-TCDD	1.167896	5.5			RSD ()	
1,2,3,7,8-PeCDF	0.9056077	1.8			RSD ()	
2,3,4,7,8-PeCDF	1.007547	4.9			RSD ()	
1,2,3,7,8-PeCDD	1.151821	1.0			RSD ()	
1,2,3,4,7,8-HxCDF	1.045378	2.7			RSD ()	
1,2,3,6,7,8-HxCDF	1.019458	4.2			RSD ()	
2,3,4,6,7,8-HxCDF	1.100942	6.7			RSD ()	
1,2,3,7,8,9-HxCDF	0.9922439	7.8			RSD ()	
1,2,3,4,7,8-HxCDD	0.9339489	1.0			RSD ()	
1,2,3,6,7,8-HxCDD	0.9503637	6.1			RSD ()	
1,2,3,7,8,9-HxCDD	0.8735404	4.8			RSD ()	
1,2,3,4,6,7,8-HpCDF	1.243215	5.0			RSD ()	
1,2,3,4,7,8,9-HpCDF	1.192088	6.0			RSD ()	
1,2,3,4,6,7,8-HpCDD	1.26811	5.9			RSD ()	
OCDF	1.302885	3.4			RSD ()	
OCDD	1.089271	4.0			RSD ()	
13C12-2,3,7,8-TCDF	1.751389	4.1			RSD ()	
13C12-2,3,7,8-TCDD	1.081405	4.3			RSD ()	
13C12-1,2,3,7,8-PeCDF	1.44176	8.1			RSD ()	
13C12-2,3,4,7,8-PeCDF	1.365763	8.5			RSD ()	
13C12-1,2,3,7,8-PeCDD	0.776379	8.3			RSD ()	
13C12-1,2,3,4,7,8-HxCDF	1.094784	2.0			RSD ()	
13C12-1,2,3,6,7,8-HxCDF	1.167672	2.2			RSD ()	
13C12-2,3,4,6,7,8-HxCDF	1.022874	2.4			RSD ()	
13C12-1,2,3,7,8,9-HxCDF	0.8787479	2.8			RSD ()	
13C12-1,2,3,4,7,8-HxCDD	0.974922	1.7			RSD ()	
13C12-1,2,3,6,7,8-HxCDD	1.066512	3.3			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDF	0.9254863	3.0			RSD ()	
13C12-1,2,3,4,7,8,9-HpCDF	0.7148797	5.6			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDD	0.5816149	1.9			RSD ()	



**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FC00062	Instrument:	AUTOSPEC01
Calibration Date:	03/23/2022	Column (1):	RTX-Dioxin2

<b>COMPOUND</b>	<b>Mean RRF</b>	<b>RRF RSD</b>	<b>Linear COD</b>	<b>Quad COD</b>	<b>Limit Type &amp; Limit</b>	<b>Q</b>
13C12-OCDD	0.5085582	7.7			RSD ()	
37C14-2,3,7,8-TCDD	1.120103	4.0			RSD ()	
13C12-1,2,3,4-TCDD	1	0.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDD	1	0.0			RSD ()	



ANALYSIS SEQUENCE

SKC0306

Instrument: AUTOSPEC01      Element Column ID: K2341  
Calibration ID: FC00062      Tune File: FEB1622\_1-5  
EM Voltage: 360      Resolution check times : 09:28, 18:26

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKC0306-ICV1	CS3H1	QC		1	J001522		03/23/2022 09:30	22032302	PK	
SKC0306-RES1	ISCH1	QC		2	J012679		03/23/2022 10:49	22032303	PK	
SKC0306-CAL1	CSLCH	QC		3	I005460		03/23/2022 11:36	22032304	PK	
SKC0306-CAL2	CS1CH	QC		4	I005456		03/23/2022 12:45	22032305	PK	
SKC0306-CAL3	CS2CH	QC		5	I005457		03/23/2022 13:37	22032306	PK	
SKC0306-CAL4	CS3CH	QC		6	J001522		03/23/2022 14:24	22032307	PK	
SKC0306-CAL5	CS4CH	QC		7	I005458		03/23/2022 15:11	22032308	PK	
SKC0306-CAL6	CS5CH	QC		8	I005459		03/23/2022 15:59	22032309	PK	
SKC0306-SCV1	ICVCH	QC		9	G001361		03/23/2022 16:46	22032310	PK	
SKC0306-CCV1	CS3H2	QC		10	J001522		03/23/2022 17:34	22032311	PK	
SKC0306-RES2	ISCH2	QC		11	J012679		03/23/2022 18:26	22032312	PK	

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
Printed: Thursday, March 24, 2022 09:16:19 Pacific Daylight Time

3/24/22 pk

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Pre modification peak	Sample:22032304, Compound:OF, RT:43.997	1
Peak modified	Sample:22032304, Compound:OF, RT:43.997	1
Peak deleted	Sample:22032304, Compound:OD, RT:43.759	1
Peak deleted	Sample:22032304, Compound:TD, RT:25.442	1
Peak deleted	Sample:22032304, Compound:TF, RT:24.792	1
Pre modification peak	Sample:22032304, Compound:HF, RT:35.996	1
Peak modified	Sample:22032304, Compound:HF, RT:35.996	1
Pre modification peak	Sample:22032304, Compound:HD, RT:35.216	1
Peak modified	Sample:22032304, Compound:HD, RT:35.216	1
Pre modification peak	Sample:22032304, Compound:HF, RT:33.913	1
Peak modified	Sample:22032304, Compound:HF, RT:33.913	1
Pre modification peak	Sample:22032304, Compound:HF, RT:34.949	1
Peak modified	Sample:22032304, Compound:HF, RT:34.949	1
Pre modification peak	Sample:22032304, Compound:HPF, RT:39.996	1
Peak modified	Sample:22032304, Compound:HPF, RT:39.996	1
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\220323ICIH.qld'	
Peak deleted	Sample:22032309, Compound:PP, RT:26.138	6
Peak deleted	Sample:22032306, Compound:PF, RT:31.306	3
Peak deleted	Sample:22032308, Compound:PF, RT:31.272	5
Peak deleted	Sample:22032309, Compound:PF, RT:31.272	6
Peak deleted	Sample:22032309, Compound:PF, RT:31.139	6
Peak deleted	Sample:22032309, Compound:HF, RT:32.197	6
Peak deleted	Sample:22032308, Compound:HPD, RT:38.336	5
Peak deleted	Sample:22032309, Compound:HPD, RT:38.326	6
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\220323ICIH.qld'	

Dataset: T:\Autospec\Processed Data Batch\220323IHOP.qld  
 Last Altered: Thursday, March 24, 2022 09:20:33 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:21:29 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29

Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14

ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	24.822	1.001	4.062e4	5.260e4	0.985	0.772	0.770	828	1892	5.81e5	7.69e5	701.0	406.5	NO	bb	bb	9.962
12378-PeCDF	28.944	1.001	2.146e5	1.380e5	0.906	1.555	1.550	1825	1559	3.26e6	2.11e6	1786.6	1355.7	NO	bb	bb	49.481
23478-PeCDF	30.281	1.001	2.228e5	1.440e5	1.008	1.547	1.550	1825	1559	3.39e6	2.21e6	1858.8	1419.5	NO	bb	bb	49.169
123478-HxCDF	33.935	1.001	1.622e5	1.355e5	1.045	1.197	1.240	1895	2067	2.53e6	2.08e6	1335.5	1006.0	NO	bd	bd	49.928
234678-HxCDF	34.971	1.001	1.548e5	1.293e5	1.101	1.197	1.240	1895	2067	2.37e6	1.93e6	1249.7	933.6	NO	bb	bb	48.629
123678-HxCDF	34.079	1.001	1.790e5	1.460e5	1.019	1.226	1.240	1895	2067	2.57e6	2.10e6	1357.5	1018.5	NO	dd	dd	53.728
123789-HxCDF	36.007	1.000	1.296e5	1.050e5	0.992	1.235	1.240	1895	2067	1.98e6	1.61e6	1046.2	778.9	NO	bb	bb	47.438
1234678-HpCDF	37.901	1.001	1.535e5	1.485e5	1.243	1.033	1.050	1832	2685	2.47e6	2.33e6	1350.5	868.5	NO	bb	bb	49.437
1234789-HpCDF	40.029	1.000	1.275e5	1.213e5	1.192	1.051	1.050	1832	2685	1.84e6	1.81e6	1002.3	675.9	NO	bb	bb	54.126
OCDF	44.005	1.005	1.774e5	1.868e5	1.303	0.949	0.890	2399	2078	2.06e6	2.21e6	856.8	1065.4	NO	bd	bb	94.538
2378-TCDD	25.457	1.001	3.090e4	3.795e4	1.168	0.814	0.770	1828	1288	4.80e5	5.89e5	262.4	457.3	NO	bb	bb	9.276
12378-PeCDD	30.537	1.000	1.516e5	9.858e4	1.152	1.538	1.550	2079	1615	2.24e6	1.45e6	1076.4	899.6	NO	bb	bd	49.387
123478-HxCDD	35.104	1.001	1.367e5	1.127e5	0.934	1.212	1.240	2204	1742	2.09e6	1.72e6	948.4	988.1	NO	bd	bd	50.896
123678-HxCDD	35.216	1.000	1.499e5	1.233e5	0.950	1.215	1.240	2204	1742	2.26e6	1.86e6	1023.2	1067.1	NO	dd	dd	50.286
123789-HxCDD	35.606	1.011	1.321e5	1.099e5	0.873	1.202	1.240	2204	1742	2.06e6	1.66e6	933.7	954.7	NO	bb	bb	50.584
1234678-HpCDD	39.338	1.000	1.035e5	9.963e4	1.268	1.039	1.050	1730	2031	1.60e6	1.53e6	923.5	751.6	NO	bb	bd	47.174
OCDD	43.785	1.000	1.425e5	1.591e5	1.089	0.896	0.890	1249	2183	1.73e6	1.93e6	1385.8	885.7	NO	bb	bb	93.665
13C-2378-TCDF	24.792	1.007	4.206e5	5.297e5	1.751	0.794	0.770	4117	2778	6.28e6	7.91e6	1525.6	2848.3	NO	bb	bb	95.784
13C-12378-PeCDF	28.921	1.174	4.790e5	3.079e5	1.442	1.556	1.550	2588	1976	7.26e6	4.65e6	2805.2	2352.9	NO	bb	bb	96.343
13C-23478-PeCDF	30.258	1.229	4.523e5	2.881e5	1.366	1.570	1.550	2588	1976	6.74e6	4.34e6	2602.6	2197.8	NO	bb	bb	95.698
13C-123478-HxCDF	33.912	0.953	1.915e5	3.789e5	1.095	0.505	0.510	2156	2330	2.92e6	5.79e6	1355.6	2483.5	NO	bd	bd	93.063
13C-123678-HxCDF	34.057	0.957	1.966e5	3.968e5	1.168	0.495	0.510	2156	2330	3.07e6	6.08e6	1421.4	2609.2	NO	db	db	90.774
13C-234678-HxCDF	34.948	0.982	1.777e5	3.529e5	1.023	0.503	0.510	2156	2330	2.76e6	5.54e6	1281.1	2378.0	NO	bb	bb	92.652
13C-123789-HxCDF	35.996	1.011	1.665e5	3.319e5	0.879	0.502	0.510	2156	2330	2.55e6	4.92e6	1184.0	2110.3	NO	bb	bd	101.316
13C-1234678-HpCDF	37.879	1.064	1.534e5	3.380e5	0.925	0.454	0.440	1697	2610	2.40e6	5.37e6	1414.5	2057.1	NO	bb	bb	94.841
13C-1234789-HpCDF	40.018	1.124	1.194e5	2.663e5	0.715	0.448	0.440	1697	2610	1.78e6	3.94e6	1050.7	1507.9	NO	bb	bb	96.356
13C-1234-TCDD	24.626	0.000	2.484e5	3.181e5	1.000	0.781	0.770	3188	1634	3.80e6	4.97e6	1192.6	3044.0	NO	bb	bb	100.000
13C-2378-TCDD	25.442	1.033	2.751e5	3.605e5	1.081	0.763	0.770	3188	1634	4.08e6	5.39e6	1279.3	3297.0	NO	bb	bb	103.744
13C-12378-PeCDD	30.525	1.240	2.707e5	1.691e5	0.776	1.601	1.550	1353	1491	4.08e6	2.54e6	3012.1	1705.0	NO	bb	bb	100.015
13C-123478-HxCDD	35.082	0.986	2.970e5	2.276e5	0.975	1.305	1.240	2016	2018	4.71e6	3.62e6	2338.4	1794.9	NO	bd	bd	96.122
13C-123678-HxCDD	35.205	0.989	3.165e5	2.551e5	1.067	1.241	1.240	2016	2018	4.84e6	3.91e6	2400.9	1939.6	NO	db	db	95.736
13C-1234678-HpCDD	39.327	1.105	1.717e5	1.678e5	0.582	1.023	1.050	1277	1726	2.66e6	2.56e6	2085.7	1481.3	NO	bb	bb	104.270
13C-OCDD	43.776	1.230	2.826e5	3.087e5	0.509	0.915	0.890	2024	1376	3.26e6	3.58e6	1612.9	2599.7	NO	bb	bb	207.685
13C-123789-HxCDD	35.595	0.000	3.112e5	2.487e5	1.000	1.251	1.240	2016	2018	4.73e6	3.79e6	2344.9	1879.3	NO	bb	bb	100.000
37CL-2378-TCDD	25.457	1.034	6.082e4		1.120			1772		9.04e5		510.2			bd		9.586



Dataset: T:\Autospec\Processed Data Batch\220323IHOP.qld  
 Last Altered: Thursday, March 24, 2022 09:20:33 Pacific Daylight Time  
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**ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.345	0.861	5.033e4	6.808e4	1.300	0.739	0.770	828	1892	7.93e5	1.07e6	957.8	567.2	NO	bb	bb	9.583
1289-TCDF	26.289	1.060	3.775e4	5.013e4	0.931	0.753	0.770	828	1892	5.67e5	7.47e5	684.6	394.7	NO	db	db	9.929
13468-PECDF	26.168	0.905	2.979e5	2.018e5	1.308	1.476	1.550	816	1168	4.43e6	2.97e6	5428.7	2539.5	NO	bb	bb	48.534
12389-PECDF	31.305	1.082	2.048e5	1.404e5	0.860	1.459	1.550	1825	1559	3.10e6	2.03e6	1699.1	1301.2	NO	bb	bd	50.995
123468-HXCDF	32.230	0.950	1.769e5	1.434e5	1.156	1.234	1.240	1895	2067	2.64e6	2.13e6	1394.7	1032.8	NO	bb	bb	48.573
1368-TCDD	22.615	0.889	3.330e4	3.953e4	1.151	0.842	0.770	1828	1288	5.13e5	6.23e5	280.6	483.3	NO	bb	bb	9.958
1289-TCDD	26.047	1.024	2.756e4	3.570e4	0.950	0.772	0.770	1828	1288	4.13e5	5.07e5	226.0	393.5	NO	bb	bb	10.479
12479-PECDD	27.830	0.912	2.916e5	1.779e5	2.164	1.640	1.550	2079	1615	2.80e6	1.73e6	1347.1	1071.2	NO	bb	bb	49.315
12389-PECDD	30.927	1.013	1.872e5	1.127e5	1.371	1.661	1.550	2079	1615	2.77e6	1.68e6	1331.8	1040.1	NO	bd	bb	49.731
124679-HXCDD	33.032	0.942	1.586e5	1.290e5	1.153	1.230	1.240	2204	1742	2.31e6	1.88e6	1048.9	1079.1	NO	bb	bb	47.560
1234679-HPCDD	38.347	0.975	1.261e5	1.139e5	1.473	1.107	1.050	1730	2031	2.00e6	1.84e6	1158.5	904.7	NO	bd	bb	47.986
Total-tetrafurans			1.287e5		1.072			828		1.94e6							29.474
Total-penta1			2.979e5					816		4.43e6							48.534
Total-pentafurans			6.804e5		0.924			1825		1.03e7							158.461
Total-hexafurans			8.026e5		1.063			1895		1.21e7							248.297
Total-heptafurans			2.810e5		1.218			1832		4.31e6							103.563
Total-Furans			2.368e6		1.090			828		3.52e7							682.869
Total-tetradoxins			1.560e5		1.090			1828		2.16e6							50.448
Total-pentadoxins			6.305e5		1.562			2079		7.81e6							148.433
Total-hexadoxins			5.773e5		0.978			2204		8.72e6							199.326
Total-heptadoxins			2.296e5		1.371			1730		3.60e6							95.160
Total-Dioxins			1.736e6		1.207			1828		2.40e7							587.032
Total-TEQ			4.104e6					1828		5.92e7							1269.901
FUNCTION1 PFK			1.042e6					969586		1.80e7							
FUNCTION2 PFK			6.105e5					797899		5.49e6							0.000
FUNCTION3 PFK			1.744e6					907385		3.94e7							0.000
FUNCTION4 PFK			6.096e5					520591		1.69e7							
FUNCTION5 PFK			2.708e5					294293		9.91e6							
FUNCTION1 HXCDPE			5.292e2					904		8.71e3							0.000
FUNCTION1 HPCDPE			1.829e3					935		3.23e4							0.000
FUNCTION2 HPCDPE			1.290e3					790		2.26e4							0.000
FUNCTION3 OCDPE			3.724e2					624		5.01e3							0.000
FUNCTION4 NCDPE			1.556e2					870		3.84e3							0.000
FUNCTION5 DCDPE			7.672e1					680		9.39e2							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323IHOP.qld  
 Last Altered: Thursday, March 24, 2022 09:20:33 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:21:29 Pacific Daylight Time

**Method:** T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29

**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14

**ID:** CS3H1, **Name:** 22032302, **Date:** 23-Mar-2022, **Time:** 09:30:37, **Conditions:** AUTOSPEC01, **User:** pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.29	3.775e4	5.013e4	0.931	0.75	0.77	684.6	YES	NO	db	db	9.929
2	2378-TCDF	24.82	4.062e4	5.260e4	0.985	0.77	0.77	701.0	YES	NO	bb	bb	9.962
3	1368-TCDF	21.34	5.033e4	6.808e4	1.300	0.74	0.77	957.8	YES	NO	bb	bb	9.583

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.17	2.979e5	2.018e5	1.308	1.48	1.55	5428.7	YES	NO	bb	bb	48.534

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	31.31	2.048e5	1.404e5	0.860	1.46	1.55	1699.1	YES	NO	bb	bd	50.995
2	23478-PeCDF	30.28	2.228e5	1.440e5	1.008	1.55	1.55	1858.8	YES	NO	bb	bb	49.169
3	12378-PeCDF	28.94	2.146e5	1.380e5	0.906	1.55	1.55	1786.6	YES	NO	bb	bb	49.481
4	Total-pentafurans	27.81	3.818e4	2.405e4	0.924	1.59	1.55	314.0	YES	NO	bb	bb	8.816

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HxCDF	32.23	1.769e5	1.434e5	1.156	1.23	1.24	1394.7	YES	NO	bb	bb	48.573
2	123789-HxCDF	36.01	1.296e5	1.050e5	0.992	1.23	1.24	1046.2	YES	NO	bb	bb	47.438
3	234678-HxCDF	34.97	1.548e5	1.293e5	1.101	1.20	1.24	1249.7	YES	NO	bb	bb	48.629
4	123678-HxCDF	34.08	1.790e5	1.460e5	1.019	1.23	1.24	1357.5	YES	NO	dd	dd	53.728
5	123478-HxCDF	33.93	1.622e5	1.355e5	1.045	1.20	1.24	1335.5	YES	NO	bd	bd	49.928

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.03	1.275e5	1.213e5	1.192	1.05	1.05	1002.3	YES	NO	bb	bb	54.126
2	1234678-HpCDF	37.90	1.535e5	1.485e5	1.243	1.03	1.05	1350.5	YES	NO	bb	bb	49.437

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323IHOP.qld  
 Last Altered: Thursday, March 24, 2022 09:20:33 Pacific Daylight Time  
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**ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.29	3.775e4	5.013e4	0.931	0.75	0.77	684.6	YES	NO	db	db	9.929
2	2378-TCDF	24.82	4.062e4	5.260e4	0.985	0.77	0.77	701.0	YES	NO	bb	bb	9.962
3	1368-TCDF	21.34	5.033e4	6.808e4	1.300	0.74	0.77	957.8	YES	NO	bb	bb	9.583
4	12389-PECDF	31.31	2.048e5	1.404e5	0.860	1.46	1.55	1699.1	YES	NO	bb	bd	50.995
5	23478-PeCDF	30.28	2.228e5	1.440e5	1.008	1.55	1.55	1858.8	YES	NO	bb	bb	49.169
6	12378-PeCDF	28.94	2.146e5	1.380e5	0.906	1.55	1.55	1786.6	YES	NO	bb	bb	49.481
7	Total-pentafurans	27.81	3.818e4	2.405e4	0.924	1.59	1.55	314.0	YES	NO	bb	bb	8.816
8	123468-HXCDF	32.23	1.769e5	1.434e5	1.156	1.23	1.24	1394.7	YES	NO	bb	bb	48.573
9	123789-HxCDF	36.01	1.296e5	1.050e5	0.992	1.23	1.24	1046.2	YES	NO	bb	bb	47.438
10	234678-HxCDF	34.97	1.548e5	1.293e5	1.101	1.20	1.24	1249.7	YES	NO	bb	bb	48.629
11	123678-HxCDF	34.08	1.790e5	1.460e5	1.019	1.23	1.24	1357.5	YES	NO	dd	dd	53.728
12	123478-HxCDF	33.93	1.622e5	1.355e5	1.045	1.20	1.24	1335.5	YES	NO	bd	bd	49.928
13	1234789-HpCDF	40.03	1.275e5	1.213e5	1.192	1.05	1.05	1002.3	YES	NO	bb	bb	54.126
14	1234678-HpCDF	37.90	1.535e5	1.485e5	1.243	1.03	1.05	1350.5	YES	NO	bb	bb	49.437
15	OCDF	44.01	1.774e5	1.868e5	1.303	0.95	0.89	856.8	YES	NO	bd	bb	94.538
16	13468-PECDF	26.17	2.979e5	2.018e5	1.308	1.48	1.55	5428.7	YES	NO	bb	bb	48.534

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.05	2.756e4	3.570e4	0.950	0.77	0.77	226.0	YES	NO	bb	bb	10.479
2	2378-TCDD	25.46	3.090e4	3.795e4	1.168	0.81	0.77	262.4	YES	NO	bb	bb	9.276
3	Total-tetradioxins	25.12	4.775e4	6.015e4	1.090	0.79	0.77	278.8	YES	NO	bb	bb	15.582
4	Total-tetradioxins	24.66	1.649e4	1.920e4	1.090	0.86	0.77	136.2	YES	NO	bd	bb	5.153
5	1368-TCDD	22.61	3.330e4	3.953e4	1.151	0.84	0.77	280.6	YES	NO	bb	bb	9.958

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	30.93	1.872e5	1.127e5	1.371	1.66	1.55	1331.8	YES	NO	bd	bb	49.731
2	12378-PeCDD	30.54	1.516e5	9.858e4	1.152	1.54	1.55	1076.4	YES	NO	bb	bd	49.387
3	12479-PECDD	27.83	2.916e5	1.779e5	2.164	1.64	1.55	1347.1	YES	NO	bb	bb	49.315

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ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

#### HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	35.61	1.321e5	1.099e5	0.873	1.20	1.24	933.7	YES	NO	bb	bb	50.584
2	123678-HxCDD	35.22	1.499e5	1.233e5	0.950	1.22	1.24	1023.2	YES	NO	dd	dd	50.286
3	123478-HxCDD	35.10	1.367e5	1.127e5	0.934	1.21	1.24	948.4	YES	NO	bd	bd	50.896
4	124679-HxCDD	33.03	1.586e5	1.290e5	1.153	1.23	1.24	1048.9	YES	NO	bb	bb	47.560

#### HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.34	1.035e5	9.963e4	1.268	1.04	1.05	923.5	YES	NO	bb	bd	47.174
2	1234679-HPCDD	38.35	1.261e5	1.139e5	1.473	1.11	1.05	1158.5	YES	NO	bd	bb	47.986

#### Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.05	2.756e4	3.570e4	0.950	0.77	0.77	226.0	YES	NO	bb	bb	10.479
2	2378-TCDD	25.46	3.090e4	3.795e4	1.168	0.81	0.77	262.4	YES	NO	bb	bb	9.276
3	Total-tetradiioxins	25.12	4.775e4	6.015e4	1.090	0.79	0.77	278.8	YES	NO	bb	bb	15.582
4	Total-tetradiioxins	24.66	1.649e4	1.920e4	1.090	0.86	0.77	136.2	YES	NO	bd	bb	5.153
5	1368-TCDD	22.61	3.330e4	3.953e4	1.151	0.84	0.77	280.6	YES	NO	bb	bb	9.958
6	12389-PECDD	30.93	1.872e5	1.127e5	1.371	1.66	1.55	1331.8	YES	NO	bd	bb	49.731
7	12378-PeCDD	30.54	1.516e5	9.858e4	1.152	1.54	1.55	1076.4	YES	NO	bb	bd	49.387
8	12479-PECDD	27.83	2.916e5	1.779e5	2.164	1.64	1.55	1347.1	YES	NO	bb	bb	49.315
9	123789-HxCDD	35.61	1.321e5	1.099e5	0.873	1.20	1.24	933.7	YES	NO	bb	bb	50.584
10	123678-HxCDD	35.22	1.499e5	1.233e5	0.950	1.22	1.24	1023.2	YES	NO	dd	dd	50.286
11	123478-HxCDD	35.10	1.367e5	1.127e5	0.934	1.21	1.24	948.4	YES	NO	bd	bd	50.896
12	124679-HxCDD	33.03	1.586e5	1.290e5	1.153	1.23	1.24	1048.9	YES	NO	bb	bb	47.560
13	OCDD	43.79	1.425e5	1.591e5	1.089	0.90	0.89	1385.8	YES	NO	bb	bb	93.665
14	1234678-HpCDD	39.34	1.035e5	9.963e4	1.268	1.04	1.05	923.5	YES	NO	bb	bd	47.174
15	1234679-HPCDD	38.35	1.261e5	1.139e5	1.473	1.11	1.05	1158.5	YES	NO	bd	bb	47.986

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323IHOP.qld  
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**ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk**

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.29	3.775e4	5.013e4	0.931	0.75	0.77	684.6	YES	NO	db	db	9.929
2	2378-TCDF	24.82	4.062e4	5.260e4	0.985	0.77	0.77	701.0	YES	NO	bb	bb	9.962
3	1368-TCDF	21.34	5.033e4	6.808e4	1.300	0.74	0.77	957.8	YES	NO	bb	bb	9.583
4	12389-PECDF	31.31	2.048e5	1.404e5	0.860	1.46	1.55	1699.1	YES	NO	bb	bd	50.995
5	23478-PeCDF	30.28	2.228e5	1.440e5	1.008	1.55	1.55	1858.8	YES	NO	bb	bb	49.169
6	12378-PeCDF	28.94	2.146e5	1.380e5	0.906	1.55	1.55	1786.6	YES	NO	bb	bb	49.481
7	Total-pentafurans	27.81	3.818e4	2.405e4	0.924	1.59	1.55	314.0	YES	NO	bb	bb	8.816
8	123468-HxCDF	32.23	1.769e5	1.434e5	1.156	1.23	1.24	1394.7	YES	NO	bb	bb	48.573
9	123789-HxCDF	36.01	1.296e5	1.050e5	0.992	1.23	1.24	1046.2	YES	NO	bb	bb	47.438
10	234678-HxCDF	34.97	1.548e5	1.293e5	1.101	1.20	1.24	1249.7	YES	NO	bb	bb	48.629
11	123678-HxCDF	34.08	1.790e5	1.460e5	1.019	1.23	1.24	1357.5	YES	NO	dd	dd	53.728
12	123478-HxCDF	33.93	1.622e5	1.355e5	1.045	1.20	1.24	1335.5	YES	NO	bd	bd	49.928
13	1234789-HpCDF	40.03	1.275e5	1.213e5	1.192	1.05	1.05	1002.3	YES	NO	bb	bb	54.126
14	1234678-HpCDF	37.90	1.535e5	1.485e5	1.243	1.03	1.05	1350.5	YES	NO	bb	bb	49.437
15	OCDF	44.01	1.774e5	1.868e5	1.303	0.95	0.89	856.8	YES	NO	bd	bb	94.538
16	13468-PECDF	26.17	2.979e5	2.018e5	1.308	1.48	1.55	5428.7	YES	NO	bb	bb	48.534
17	1289-TCDD	26.05	2.756e4	3.570e4	0.950	0.77	0.77	226.0	YES	NO	bb	bb	10.479
18	2378-TCDD	25.46	3.090e4	3.795e4	1.168	0.81	0.77	262.4	YES	NO	bb	bb	9.276
19	Total-tetradiioxins	25.12	4.775e4	6.015e4	1.090	0.79	0.77	278.8	YES	NO	bb	bb	15.582
20	Total-tetradiioxins	24.66	1.649e4	1.920e4	1.090	0.86	0.77	136.2	YES	NO	bd	bb	5.153
21	1368-TCDD	22.61	3.330e4	3.953e4	1.151	0.84	0.77	280.6	YES	NO	bb	bb	9.958
22	12389-PECDD	30.93	1.872e5	1.127e5	1.371	1.66	1.55	1331.8	YES	NO	bd	bb	49.731
23	12378-PeCDD	30.54	1.516e5	9.858e4	1.152	1.54	1.55	1076.4	YES	NO	bb	bd	49.387
24	12479-PECDD	27.83	2.916e5	1.779e5	2.164	1.64	1.55	1347.1	YES	NO	bb	bb	49.315
25	123789-HxCDD	35.61	1.321e5	1.099e5	0.873	1.20	1.24	933.7	YES	NO	bb	bb	50.584
26	123678-HxCDD	35.22	1.499e5	1.233e5	0.950	1.22	1.24	1023.2	YES	NO	dd	dd	50.286
27	123478-HxCDD	35.10	1.367e5	1.127e5	0.934	1.21	1.24	948.4	YES	NO	bd	bd	50.896
28	124679-HXCDD	33.03	1.586e5	1.290e5	1.153	1.23	1.24	1048.9	YES	NO	bb	bb	47.560
29	OCDD	43.79	1.425e5	1.591e5	1.089	0.90	0.89	1385.8	YES	NO	bb	bb	93.665
30	1234678-HpCDD	39.34	1.035e5	9.963e4	1.268	1.04	1.05	923.5	YES	NO	bb	bd	47.174
31	1234679-HPCDD	38.35	1.261e5	1.139e5	1.473	1.11	1.05	1158.5	YES	NO	bd	bb	47.986

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	20.88	1.297e5					1.5	NO		bb		
2	FUNCTION1 PFK	20.63	7.716e4					1.7	NO		bb		
3	FUNCTION1 PFK	26.85	2.597e4					0.8	NO		bb		
4	FUNCTION1 PFK	26.65	6.157e3					0.4	NO		bb		
5	FUNCTION1 PFK	26.08	5.750e4					1.0	NO		bb		
6	FUNCTION1 PFK	25.59	5.948e4					1.0	NO		bb		
7	FUNCTION1 PFK	25.03	9.629e4					1.6	NO		bb		
8	FUNCTION1 PFK	24.90	5.239e4					1.5	NO		bb		
9	FUNCTION1 PFK	24.49	1.912e4					0.7	NO		db		
10	FUNCTION1 PFK	24.43	4.388e4					1.2	NO		bd		
11	FUNCTION1 PFK	23.99	3.727e4					0.9	NO		bb		
12	FUNCTION1 PFK	23.19	7.917e3					0.5	NO		bb		
13	FUNCTION1 PFK	22.84	2.325e4					0.7	NO		bb		
14	FUNCTION1 PFK	22.71	6.460e4					1.5	NO		bb		
15	FUNCTION1 PFK	22.37	3.635e4					0.8	NO		bb		
16	FUNCTION1 PFK	21.60	2.953e4					1.1	NO		db		
17	FUNCTION1 PFK	21.42	2.754e5					1.7	NO		bd		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.79	1.839e4					1.2	NO		bb		0.000
2	FUNCTION2 PFK	28.45	6.040e4					1.9	NO		bb		0.000
3	FUNCTION2 PFK	28.41	4.723e4					1.9	NO		bb		0.000
4	FUNCTION2 PFK	27.29	4.845e5					1.9	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.18	9.103e4					1.4	NO		bb		0.000
2	FUNCTION3 PFK	32.93	2.105e4					0.7	NO		bb		0.000
3	FUNCTION3 PFK	32.81	1.117e4					0.5	NO		bb		0.000
4	FUNCTION3 PFK	32.60	6.036e4					1.2	NO		db		0.000
5	FUNCTION3 PFK	32.56	2.876e4					1.0	NO		bd		0.000
6	FUNCTION3 PFK	32.51	4.949e4					1.2	NO		bb		0.000
7	FUNCTION3 PFK	32.34	2.112e4					0.9	NO		bb		0.000
8	FUNCTION3 PFK	32.29	1.724e4					0.8	NO		bb		0.000
9	FUNCTION3 PFK	32.06	4.248e3					0.3	NO		db		0.000
10	FUNCTION3 PFK	32.03	9.386e3					0.5	NO		bd		0.000
11	FUNCTION3 PFK	31.91	3.947e4					1.5	NO		bb		0.000
12	FUNCTION3 PFK	35.32	1.072e5					3.0	YES		dd		0.000
13	FUNCTION3 PFK	35.22	2.630e5					3.7	YES		bd		0.000
14	FUNCTION3 PFK	34.85	3.160e4					0.9	NO		bb		0.000
15	FUNCTION3 PFK	34.73	8.225e4					1.2	NO		bb		0.000
16	FUNCTION3 PFK	34.66	4.013e4					1.1	NO		db		0.000
17	FUNCTION3 PFK	34.59	1.673e4					0.7	NO		bd		0.000
18	FUNCTION3 PFK	34.54	1.884e4					0.9	NO		bb		0.000
19	FUNCTION3 PFK	34.47	5.323e4					1.1	NO		db		0.000
20	FUNCTION3 PFK	34.40	3.162e4					1.0	NO		bd		0.000
21	FUNCTION3 PFK	34.18	2.432e4					0.9	NO		bb		0.000
22	FUNCTION3 PFK	34.05	9.863e3					0.5	NO		bb		0.000
23	FUNCTION3 PFK	33.93	2.862e3					0.3	NO		bb		0.000
24	FUNCTION3 PFK	33.83	5.451e4					1.2	NO		bb		0.000
25	FUNCTION3 PFK	33.61	1.323e4					0.6	NO		bb		0.000
26	FUNCTION3 PFK	33.54	1.562e4					0.4	NO		bb		0.000
27	FUNCTION3 PFK	33.31	1.450e4					0.6	NO		bb		0.000
28	FUNCTION3 PFK	36.82	7.126e4					1.0	NO		bb		0.000
29	FUNCTION3 PFK	36.66	3.048e4					0.7	NO		bb		0.000
30	FUNCTION3 PFK	36.55	2.191e4					0.8	NO		bb		0.000
31	FUNCTION3 PFK	36.49	8.640e3					0.6	NO		bb		0.000
32	FUNCTION3 PFK	36.36	1.031e4					0.5	NO		bb		0.000
33	FUNCTION3 PFK	36.22	4.783e4					1.0	NO		bb		0.000
34	FUNCTION3 PFK	36.06	2.190e3					0.2	NO		bb		0.000
35	FUNCTION3 PFK	36.01	2.337e4					0.8	NO		bb		0.000
36	FUNCTION3 PFK	35.87	2.203e4					1.0	NO		bb		0.000
37	FUNCTION3 PFK	35.81	8.288e3					0.4	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	35.56	4.530e3					0.4	NO		bb		0.000
39	FUNCTION3 PFK	35.52	1.118e5					2.3	NO		db		0.000
40	FUNCTION3 PFK	35.42	1.358e5					2.8	NO		dd		0.000
41	FUNCTION3 PFK	35.36	1.125e5					2.7	NO		dd		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	37.02	5.876e4					2.7	NO		bd		
2	FUNCTION4 PFK	39.82	3.749e3					0.6	NO		bb		
3	FUNCTION4 PFK	39.72	1.551e4					1.0	NO		bb		
4	FUNCTION4 PFK	39.66	3.789e4					1.5	NO		db		
5	FUNCTION4 PFK	39.62	1.732e4					1.5	NO		bd		
6	FUNCTION4 PFK	39.43	1.379e4					1.2	NO		bb		
7	FUNCTION4 PFK	39.15	4.213e4					2.0	NO		bb		
8	FUNCTION4 PFK	39.10	4.553e3					0.7	NO		db		
9	FUNCTION4 PFK	39.06	1.653e4					1.1	NO		bd		
10	FUNCTION4 PFK	38.93	2.052e3					0.4	NO		bb		
11	FUNCTION4 PFK	38.41	2.578e4					0.7	NO		bb		
12	FUNCTION4 PFK	38.28	5.493e4					1.9	NO		bb		
13	FUNCTION4 PFK	38.06	3.748e4					1.7	NO		bb		
14	FUNCTION4 PFK	37.80	2.116e3					0.4	NO		bb		
15	FUNCTION4 PFK	37.39	1.914e4					1.5	NO		bb		
16	FUNCTION4 PFK	37.24	4.180e3					0.7	NO		bb		
17	FUNCTION4 PFK	37.08	1.582e4					1.0	NO		db		
18	FUNCTION4 PFK	41.97	1.636e4					1.3	NO		bb		
19	FUNCTION4 PFK	41.73	2.397e4					1.6	NO		db		
20	FUNCTION4 PFK	41.69	2.065e4					1.3	NO		dd		
21	FUNCTION4 PFK	41.61	6.188e4					2.1	NO		dd		
22	FUNCTION4 PFK	41.54	2.084e4					1.3	NO		dd		
23	FUNCTION4 PFK	41.45	4.126e4					1.4	NO		bd		
24	FUNCTION4 PFK	41.21	5.846e3					0.6	NO		bb		
25	FUNCTION4 PFK	40.81	2.193e4					1.0	NO		bb		
26	FUNCTION4 PFK	40.42	2.510e4					1.0	NO		bb		



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.60	1.850e3					0.7	NO		bb		
2	FUNCTION5 PFK	42.56	6.576e3					1.0	NO		bb		
3	FUNCTION5 PFK	42.50	4.349e3					0.8	NO		bb		
4	FUNCTION5 PFK	42.38	7.156e3					0.7	NO		bb		
5	FUNCTION5 PFK	42.08	1.504e3					0.6	NO		bb		
6	FUNCTION5 PFK	42.04	7.755e3					1.2	NO		bb		
7	FUNCTION5 PFK	43.97	9.818e3					1.2	NO		db		
8	FUNCTION5 PFK	43.93	4.654e3					0.7	NO		dd		
9	FUNCTION5 PFK	43.90	4.142e3					0.7	NO		dd		
10	FUNCTION5 PFK	43.87	5.873e3					0.7	NO		bd		
11	FUNCTION5 PFK	43.77	1.140e3					0.4	NO		bb		
12	FUNCTION5 PFK	43.68	1.027e3					0.4	NO		bb		
13	FUNCTION5 PFK	43.64	9.665e3					1.3	NO		bb		
14	FUNCTION5 PFK	43.52	1.415e3					0.0	NO		bb		
15	FUNCTION5 PFK	43.17	7.842e3					1.1	NO		bb		
16	FUNCTION5 PFK	43.14	1.573e3					0.6	NO		bb		
17	FUNCTION5 PFK	43.07	3.666e3					0.8	NO		bb		
18	FUNCTION5 PFK	43.03	5.806e3					1.2	NO		bb		
19	FUNCTION5 PFK	42.95	1.521e4					1.5	NO		db		
20	FUNCTION5 PFK	42.91	2.602e4					2.1	NO		bd		
21	FUNCTION5 PFK	42.73	4.020e3					0.6	NO		bb		
22	FUNCTION5 PFK	42.69	2.106e3					0.4	NO		bb		
23	FUNCTION5 PFK	44.94	1.023e4					1.3	NO		bb		
24	FUNCTION5 PFK	44.87	8.478e3					1.2	NO		bb		
25	FUNCTION5 PFK	44.65	6.004e3					1.0	NO		db		
26	FUNCTION5 PFK	44.61	3.598e3					0.6	NO		bd		
27	FUNCTION5 PFK	44.54	9.773e2					0.3	NO		db		
28	FUNCTION5 PFK	44.51	6.906e3					0.9	NO		bd		
29	FUNCTION5 PFK	44.45	9.503e3					1.4	NO		db		
30	FUNCTION5 PFK	44.42	2.133e4					1.9	NO		bd		
31	FUNCTION5 PFK	44.29	2.472e4					1.5	NO		bb		
32	FUNCTION5 PFK	44.16	3.548e3					0.5	NO		db		
33	FUNCTION5 PFK	44.13	5.506e3					1.0	NO		bd		
34	FUNCTION5 PFK	44.09	1.926e4					1.5	NO		db		
35	FUNCTION5 PFK	44.02	1.757e4					1.9	NO		bd		

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCDPE	24.17	1.271e2					2.1	NO		bd		0.000
2	FUNCTION1 HXCDPE	21.47	1.049e2					1.8	NO		bb		0.000
3	FUNCTION1 HXCDPE	26.71	8.565e1					1.8	NO		bb		0.000
4	FUNCTION1 HXCDPE	25.20	1.380e2					1.9	NO		bb		0.000
5	FUNCTION1 HXCDPE	24.25	7.356e1					2.1	NO		db		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCDPE	24.84	1.102e2					1.9	NO		bd		0.000
2	FUNCTION1 HPCDPE	24.63	8.174e1					1.3	NO		bb		0.000
3	FUNCTION1 HPCDPE	23.82	7.904e1					1.6	NO		bb		0.000
4	FUNCTION1 HPCDPE	22.93	8.776e1					3.3	YES		bb		0.000
5	FUNCTION1 HPCDPE	22.27	1.138e2					3.0	YES		bb		0.000
6	FUNCTION1 HPCDPE	21.65	7.629e1					2.1	NO		bb		0.000
7	FUNCTION1 HPCDPE	21.30	7.868e1					1.3	NO		db		0.000
8	FUNCTION1 HPCDPE	21.13	1.640e2					2.7	NO		bd		0.000
9	FUNCTION1 HPCDPE	20.86	9.842e1					1.5	NO		db		0.000
10	FUNCTION1 HPCDPE	20.77	7.124e1					1.5	NO		dd		0.000
11	FUNCTION1 HPCDPE	20.71	1.359e2					2.3	NO		dd		0.000
12	FUNCTION1 HPCDPE	20.59	1.970e2					3.1	YES		bd		0.000
13	FUNCTION1 HPCDPE	26.89	8.267e1					1.2	NO		bb		0.000
14	FUNCTION1 HPCDPE	26.14	7.847e1					1.6	NO		db		0.000
15	FUNCTION1 HPCDPE	26.06	8.460e1					1.5	NO		bd		0.000
16	FUNCTION1 HPCDPE	25.87	1.154e2					1.8	NO		bb		0.000
17	FUNCTION1 HPCDPE	25.18	8.964e1					1.4	NO		bb		0.000
18	FUNCTION1 HPCDPE	24.96	8.445e1					1.4	NO		db		0.000

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**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	31.63	1.047e2					2.7	NO		bb		0.000
2	FUNCTION2 HPCDPE	31.08	7.150e1					1.9	NO		bb		0.000
3	FUNCTION2 HPCDPE	30.96	2.255e2					3.6	YES		bb		0.000
4	FUNCTION2 HPCDPE	30.51	8.000e1					2.3	NO		bb		0.000
5	FUNCTION2 HPCDPE	30.19	3.092e2					6.0	YES		bb		0.000
6	FUNCTION2 HPCDPE	29.82	1.328e2					3.6	YES		db		0.000
7	FUNCTION2 HPCDPE	29.69	2.145e2					2.7	NO		bd		0.000
8	FUNCTION2 HPCDPE	29.11	7.887e1					2.2	NO		bb		0.000
9	FUNCTION2 HPCDPE	28.23	7.290e1					3.5	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.58	1.827e2					4.3	YES		bb		0.000
2	FUNCTION3 OCDPE	35.22	1.897e2					3.7	YES		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.07	7.394e1					1.4	NO		bb		0.000
2	FUNCTION4 NCDPE	37.83	8.161e1					3.0	NO		bb		0.000

**ETHERS6**

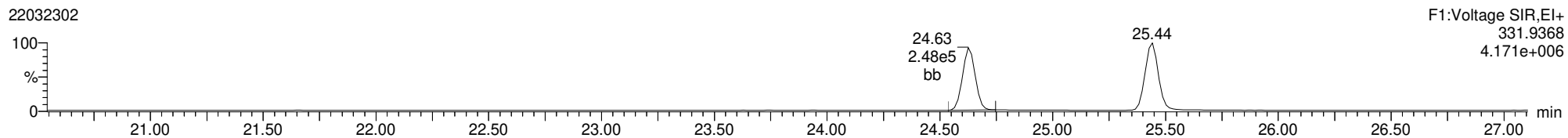
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.34	7.672e1					1.4	NO		bb		0.000

**Method:** T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14

**ID:** CS3H1, **Name:** 22032302, **Date:** 23-Mar-2022, **Time:** 09:30:37, **Conditions:** AUTOSPEC01, **User:** pk

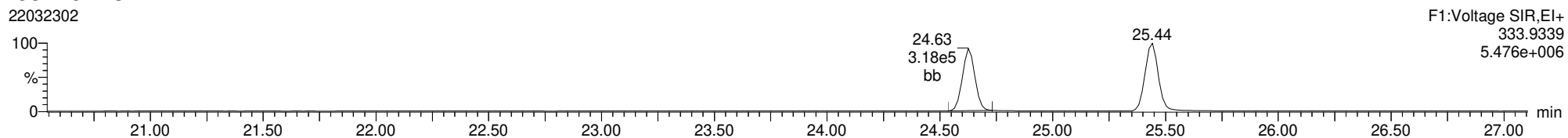
**13C-1234-TCDD**

22032302



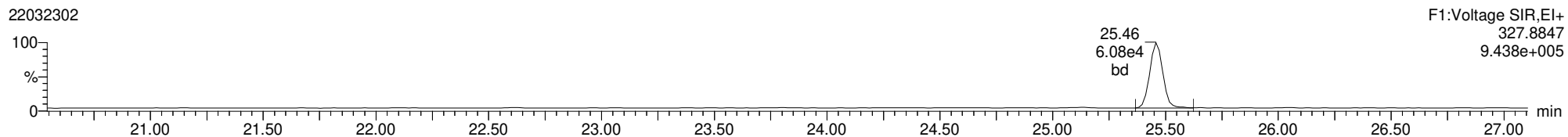
**13C-1234-TCDD**

22032302



**37CL-2378-TCDD**

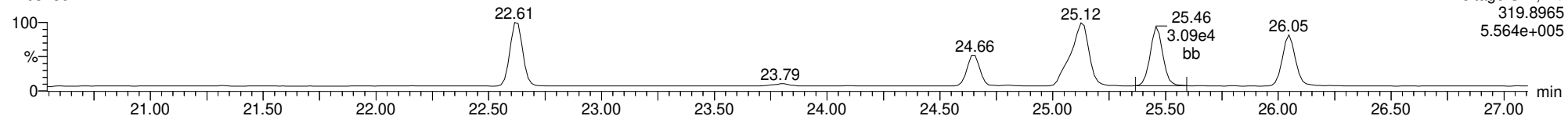
22032302



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**2378-TCDD**

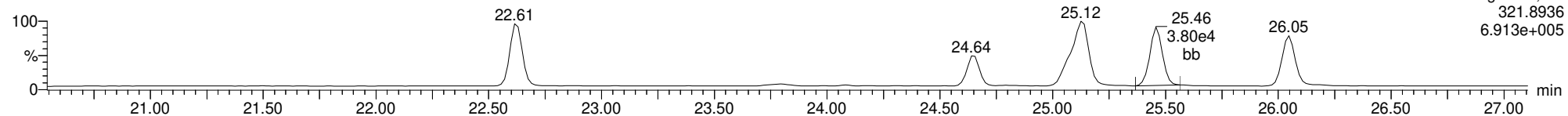
22032302



F1:Voltage SIR,El+  
319.8965  
5.564e+005

**2378-TCDD**

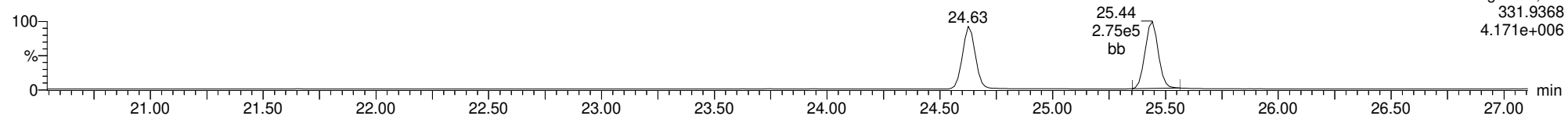
22032302



F1:Voltage SIR,El+  
321.8936  
6.913e+005

**13C-2378-TCDD**

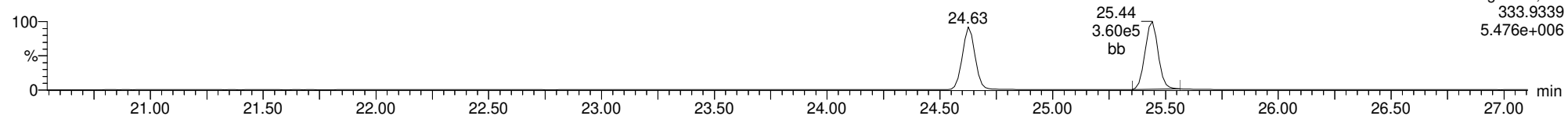
22032302



F1:Voltage SIR,El+  
331.9368  
4.171e+006

**13C-2378-TCDD**

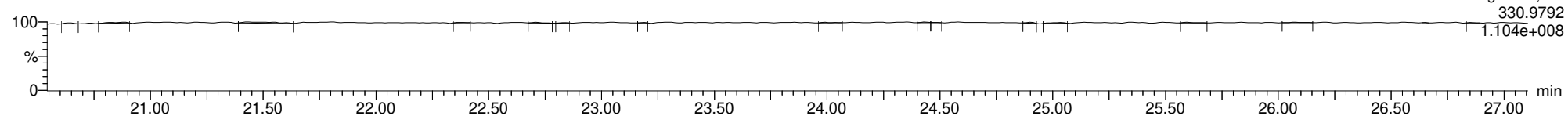
22032302



F1:Voltage SIR,El+  
333.9339  
5.476e+006

**FUNCTION1 PFK**

22032302

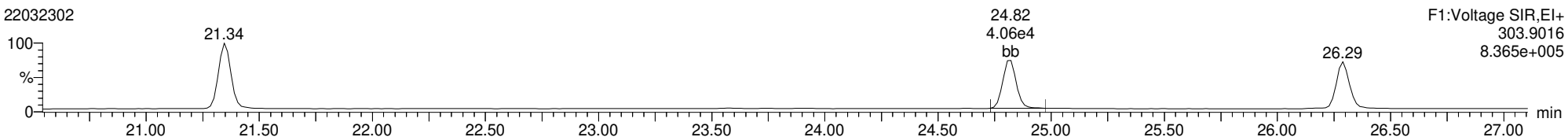


F1:Voltage SIR,El+  
330.9792  
1.104e+008

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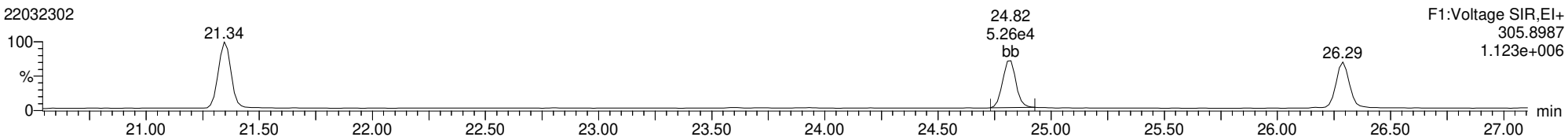
2378-TCDF

22032302



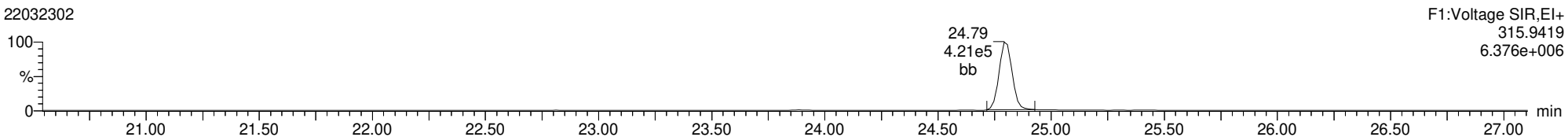
2378-TCDF

22032302



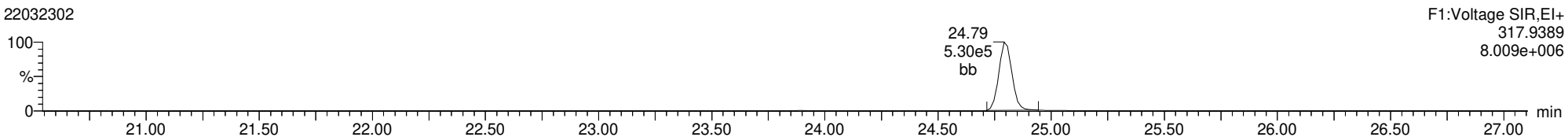
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22032302



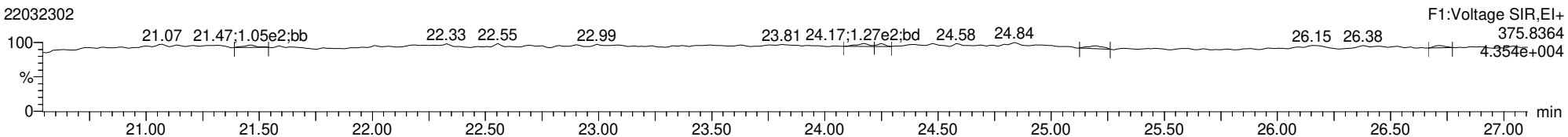
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22032302



FUNCTION1 HXCDPE

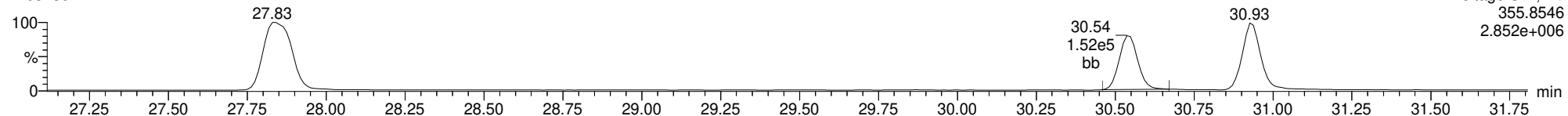
22032302



ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

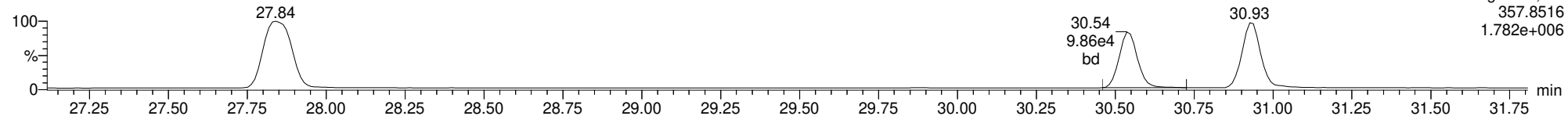
22032302



F2:Voltage SIR,El+  
355.8546  
2.852e+006

12378-PeCDD

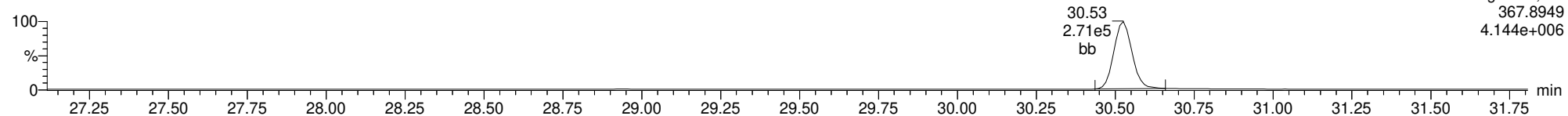
22032302



F2:Voltage SIR,El+  
357.8516  
1.782e+006

13C-12378-PeCDD

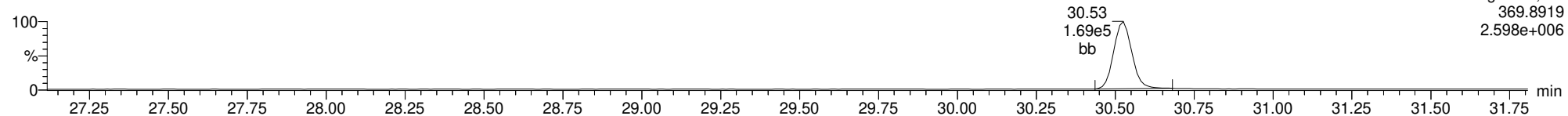
22032302



F2:Voltage SIR,El+  
367.8949  
4.144e+006

13C-12378-PeCDD

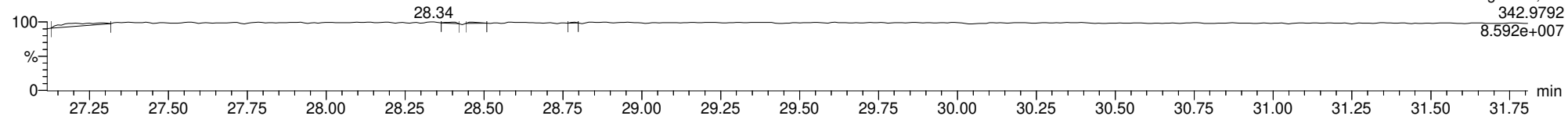
22032302



F2:Voltage SIR,El+  
369.8919  
2.598e+006

FUNCTION2 PFK

22032302

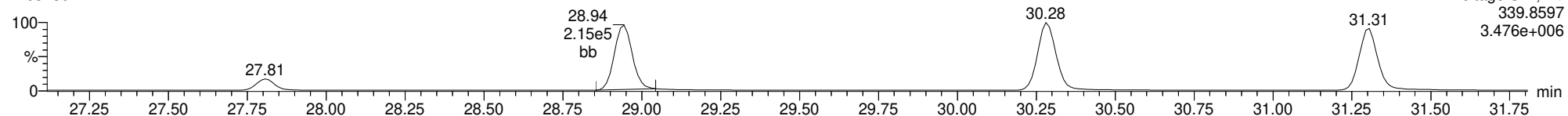


F2:Voltage SIR,El+  
342.9792  
8.592e+007

ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

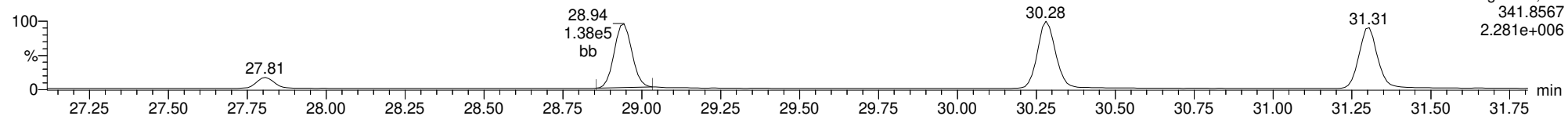
12378-PeCDF

22032302



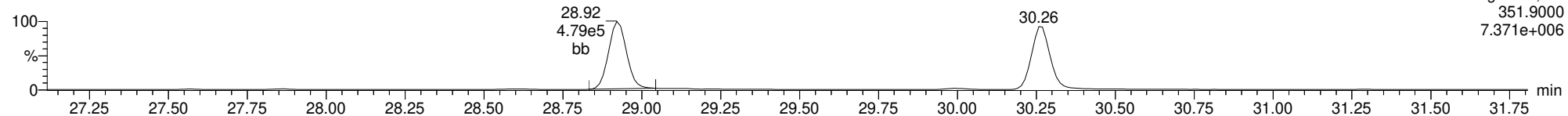
12378-PeCDF

22032302



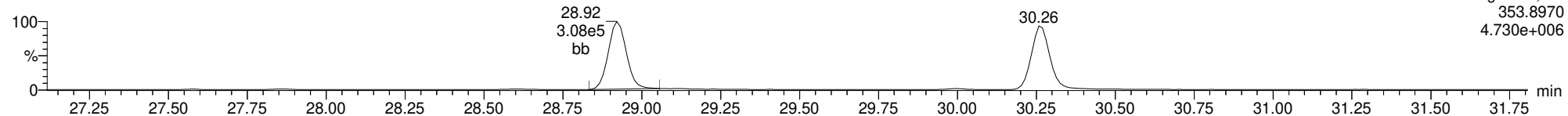
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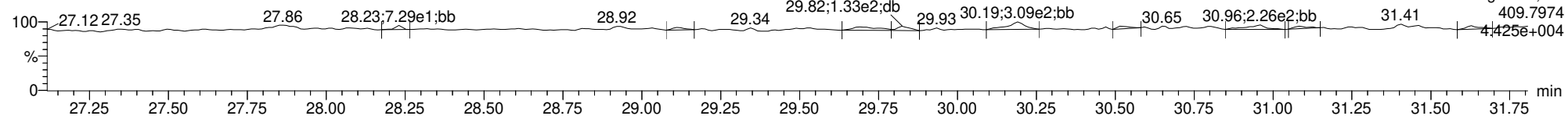
13C-12378-PeCDF

22032302



FUNCTION2 HPCDPE

22032302

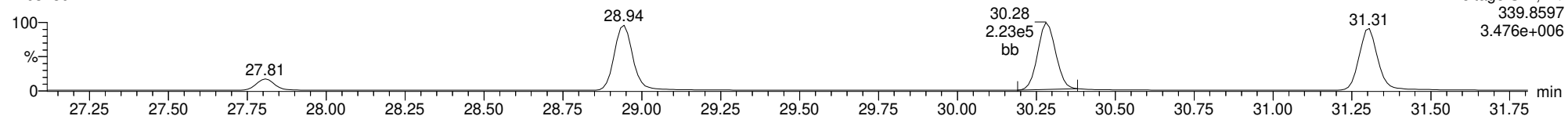




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23478-PeCDF

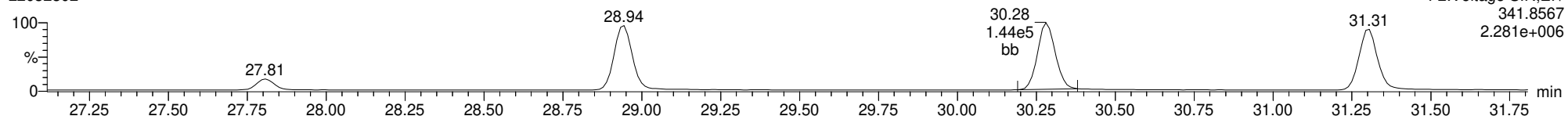
22032302



F2:Voltage SIR,EI+  
339.8597  
3.476e+006

23478-PeCDF

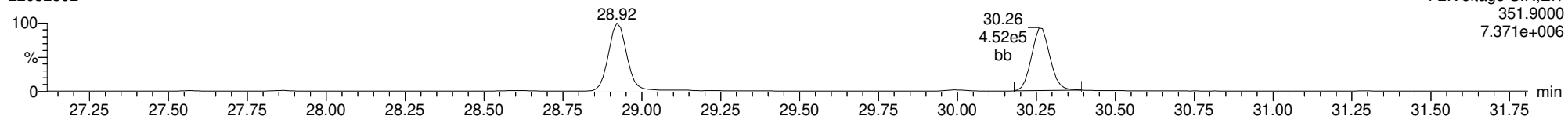
22032302



F2:Voltage SIR,EI+  
341.8567  
2.281e+006

13C-23478-PeCDF

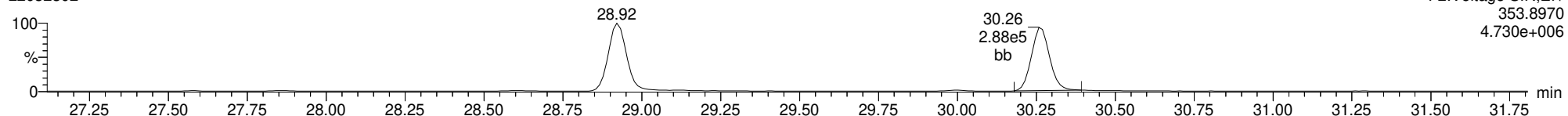
22032302



F2:Voltage SIR,EI+  
351.9000  
7.371e+006

13C-23478-PeCDF

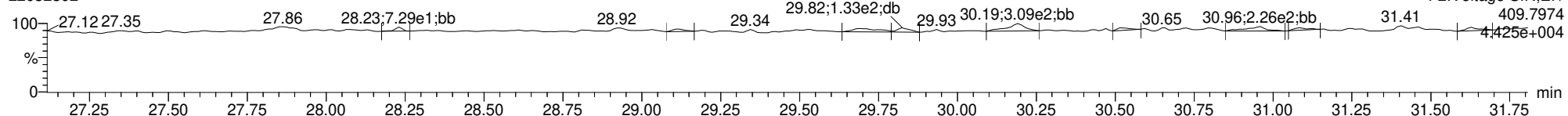
22032302



F2:Voltage SIR,EI+  
353.8970  
4.730e+006

FUNCTION2 HPCDPE

22032302

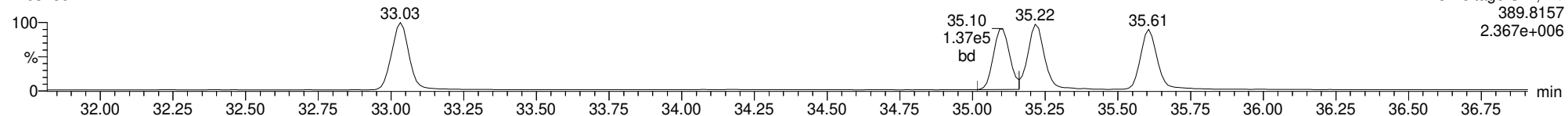


F2:Voltage SIR,EI+  
409.7974  
4.425e+004

ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

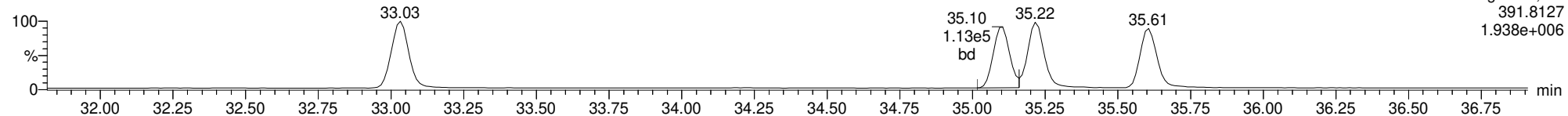
**123478-HxCDD**

22032302



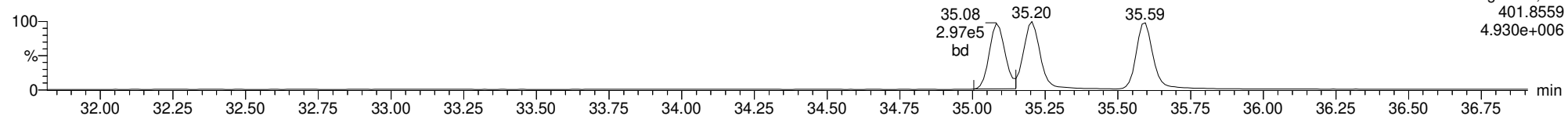
**123478-HxCDD**

22032302



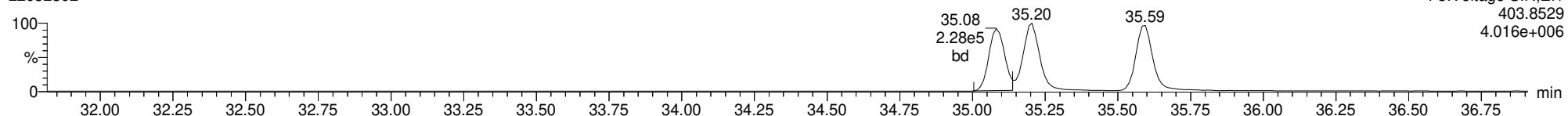
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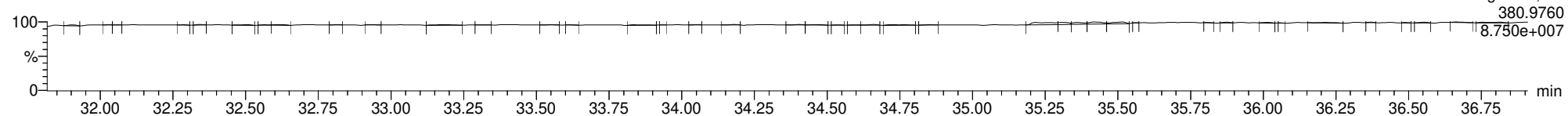
**13C-123478-HxCDD**

22032302



**FUNCTION3 PFK**

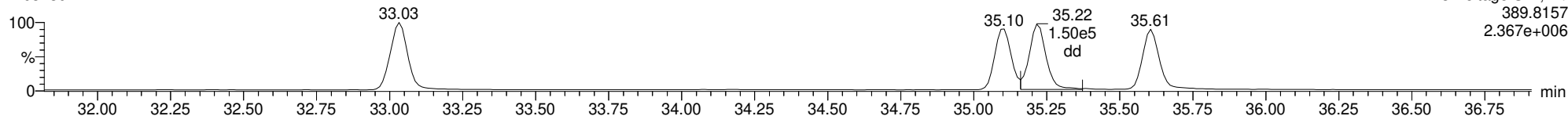
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ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

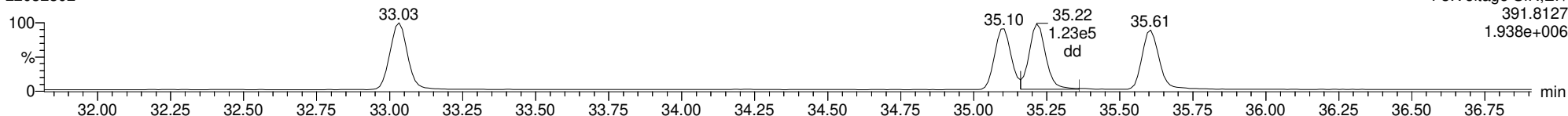
**123678-HxCDD**

22032302



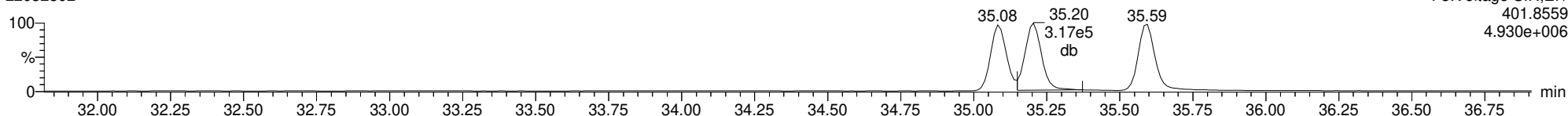
**123678-HxCDD**

22032302



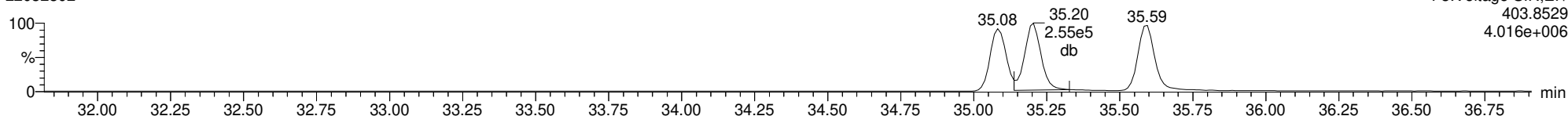
**13C-123678-HxCDD**

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**13C-123678-HxCDD**

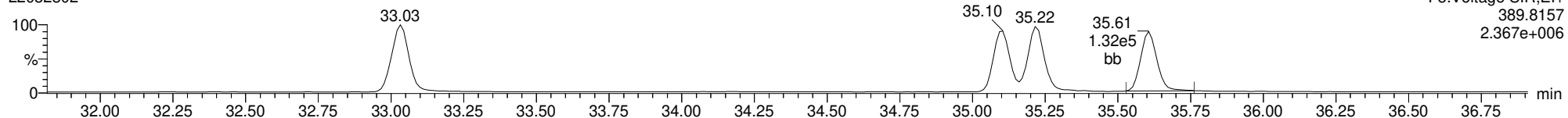
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ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

**123789-HxCDD**

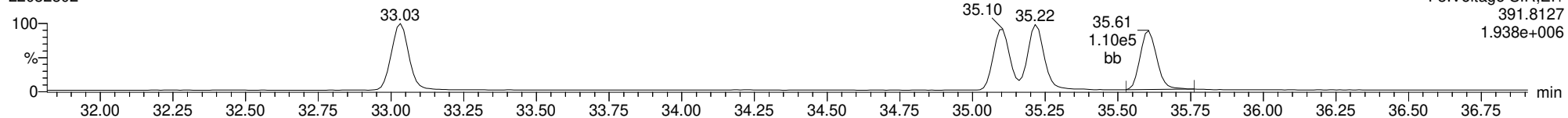
22032302



F3:Voltage SIR,El+  
389.8157  
2.367e+006

**123789-HxCDD**

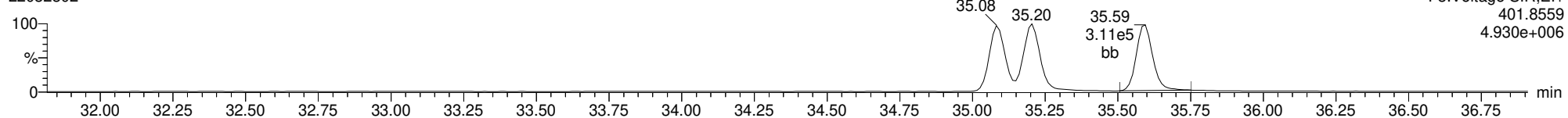
22032302



F3:Voltage SIR,El+  
391.8127  
1.938e+006

**13C-123789-HxCDD**

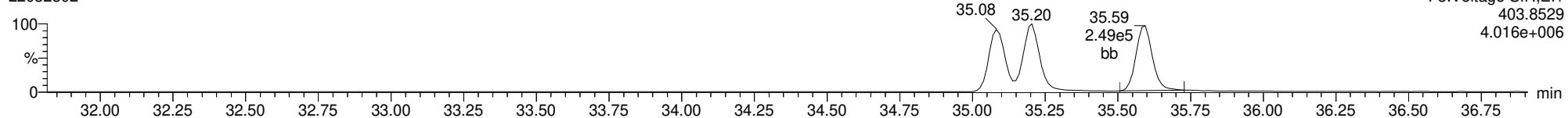
22032302



F3:Voltage SIR,El+  
401.8559  
4.930e+006

**13C-123789-HxCDD**

22032302

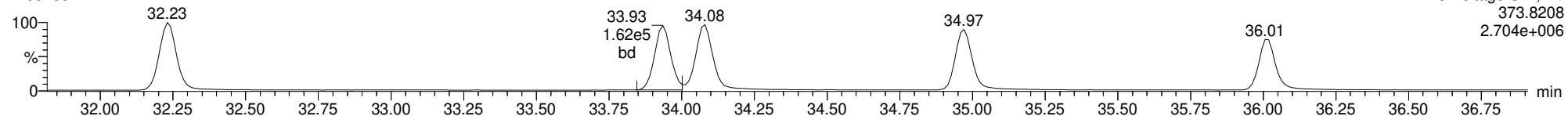


F3:Voltage SIR,El+  
403.8529  
4.016e+006

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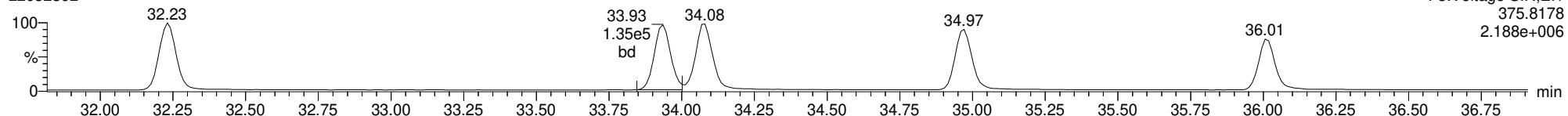
**123478-HxCDF**

22032302



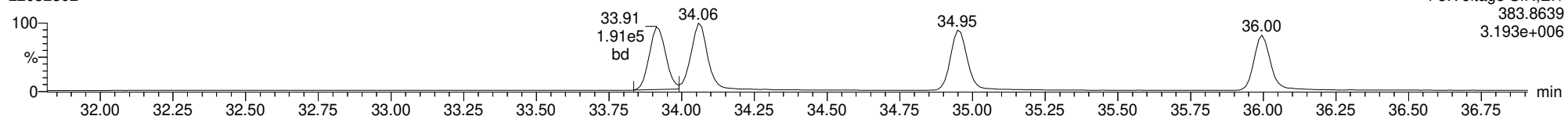
**123478-HxCDF**

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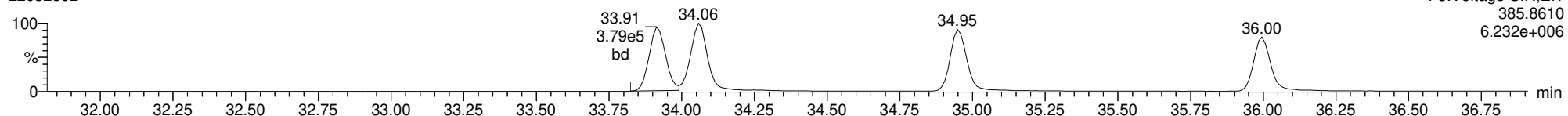
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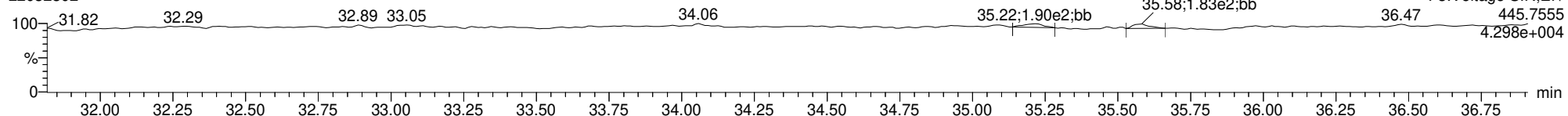
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22032302



**FUNCTION3 OCDPE**

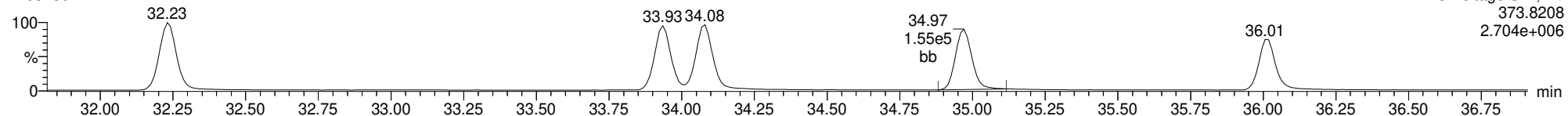
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ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

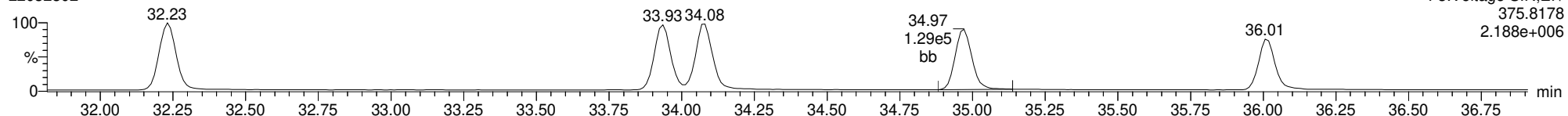
234678-HxCDF

22032302



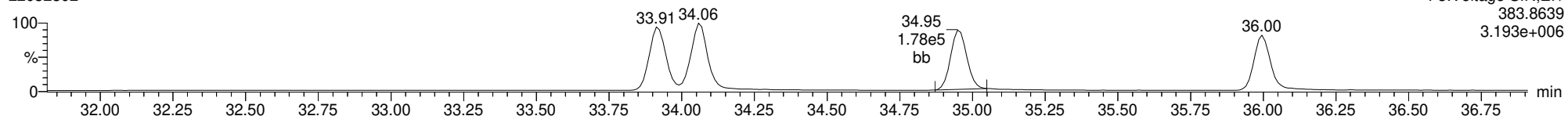
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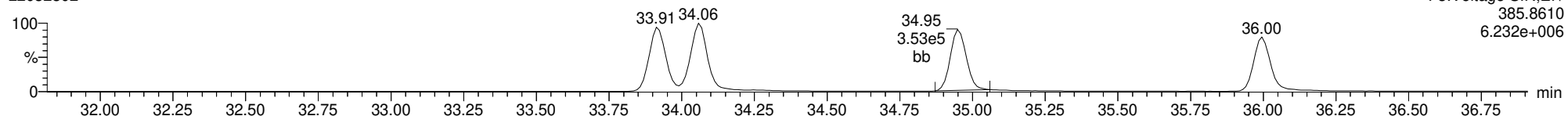
13C-234678-HxCDF

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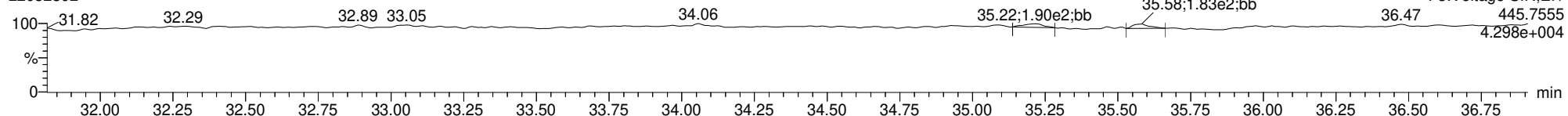
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22032302



FUNCTION3 OCDPE

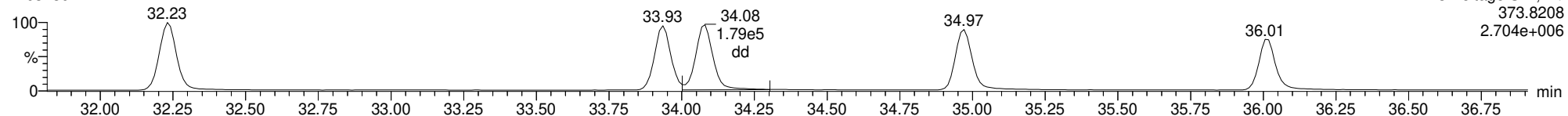
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ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

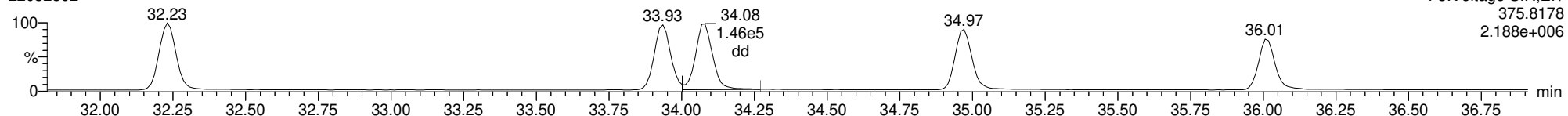
**123678-HxCDF**

22032302



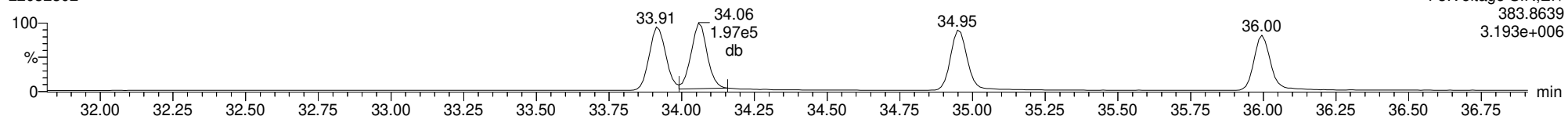
**123678-HxCDF**

22032302



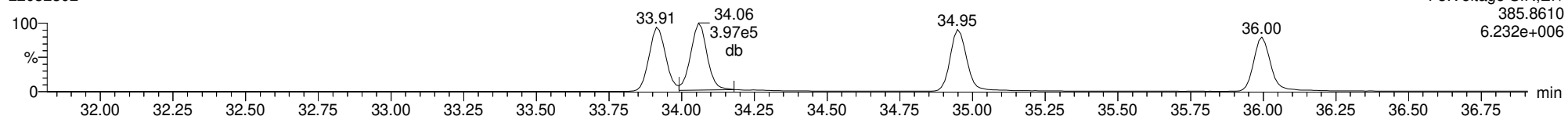
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22032302



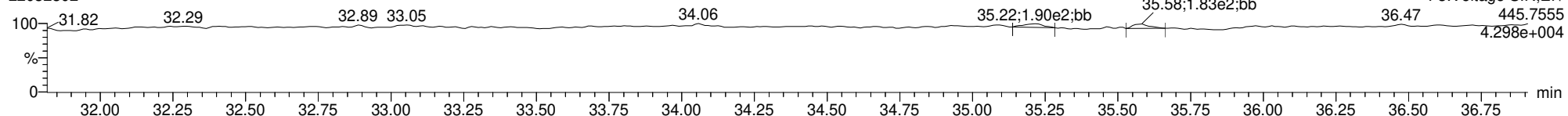
**13C-123678-HxCDF**

22032302



**FUNCTION3 OCDPE**

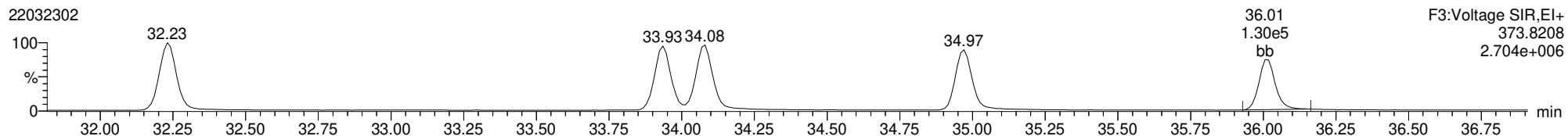
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123789-HxCDF

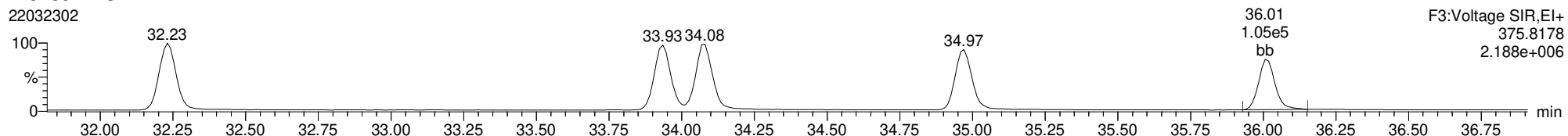
22032302



F3:Voltage SIR,El+  
373.8208  
2.704e+006

123789-HxCDF

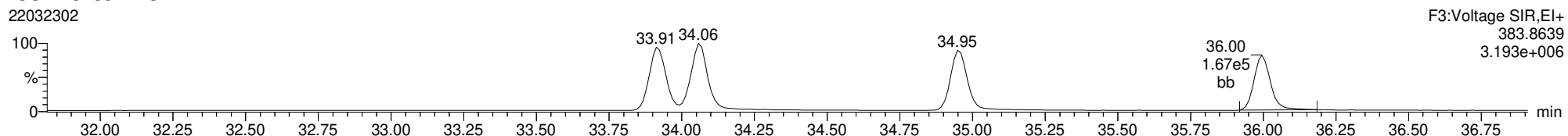
22032302



F3:Voltage SIR,El+  
375.8178  
2.188e+006

13C-123789-HxCDF

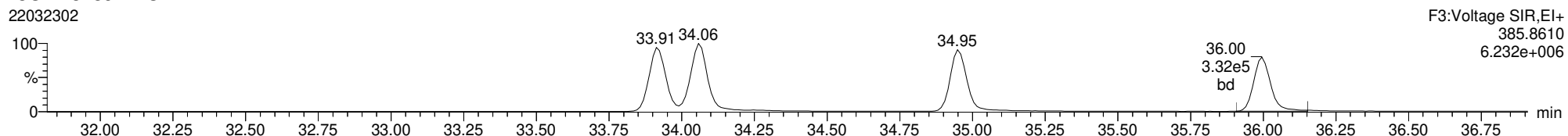
22032302



F3:Voltage SIR,El+  
383.8639  
3.193e+006

13C-123789-HxCDF

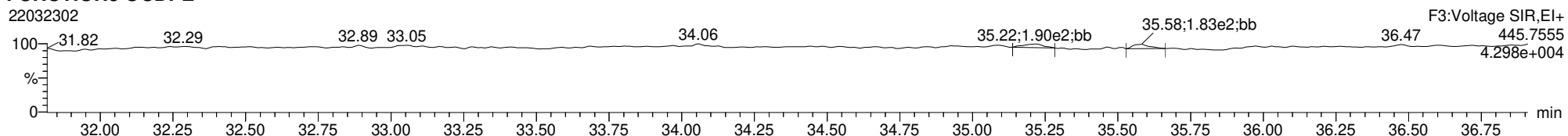
22032302



F3:Voltage SIR,El+  
385.8610  
6.232e+006

FUNCTION3 OCDPE

22032302



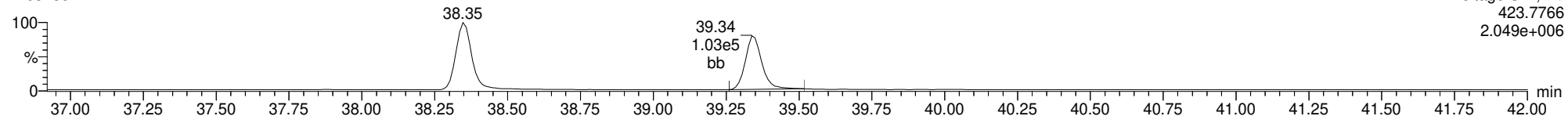
F3:Voltage SIR,El+  
445.7555  
4.298e+004



ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

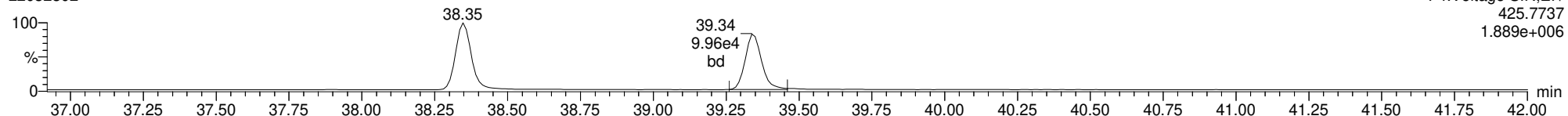
1234678-HpCDD

22032302



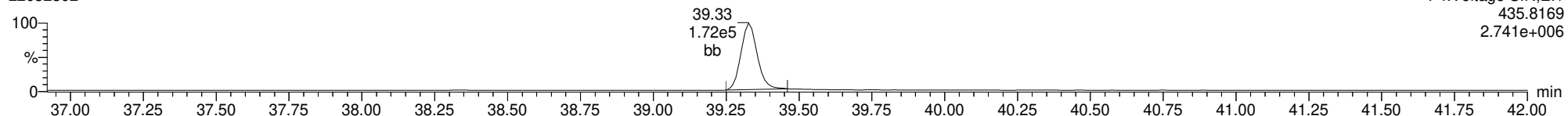
1234678-HpCDD

22032302



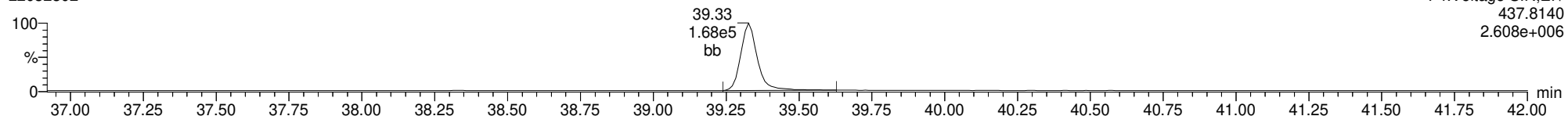
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22032302



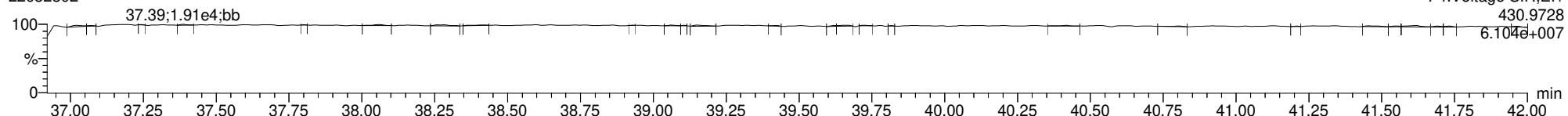
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22032302



FUNCTION4 PFK

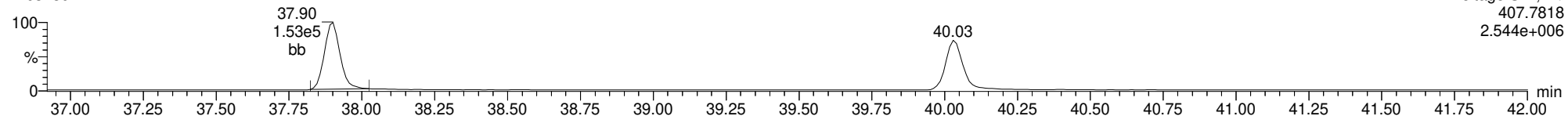
22032302



ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

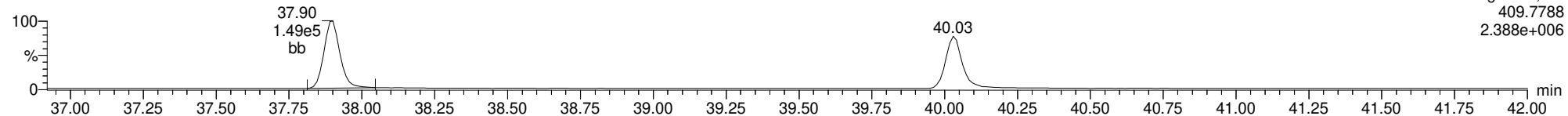
1234678-HpCDF

22032302



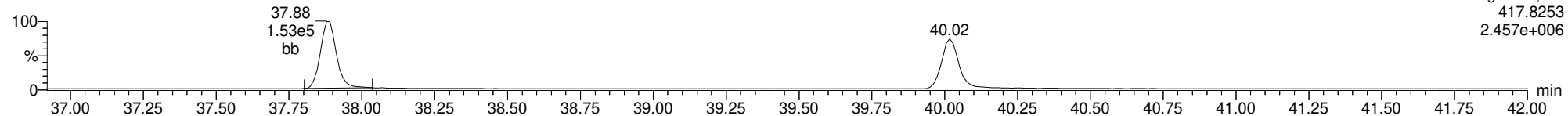
1234678-HpCDF

22032302



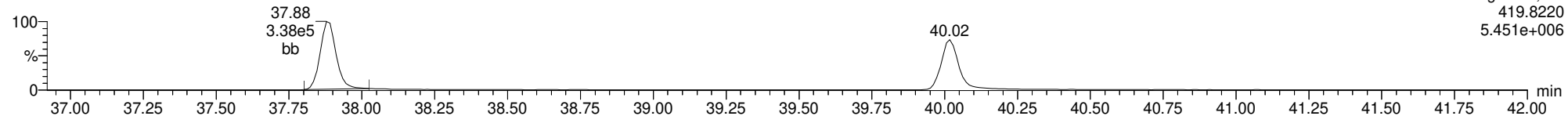
13C-1234678-HpCDF

22032302



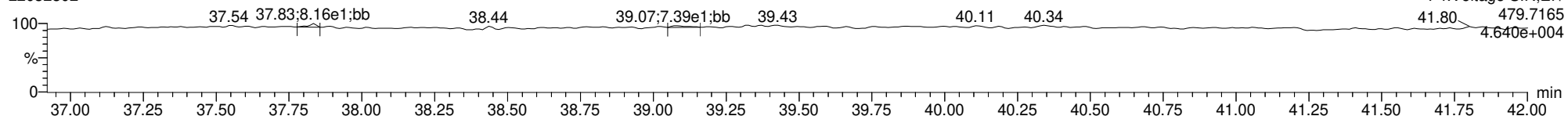
13C-1234678-HpCDF

22032302



FUNCTION4 NCDPE

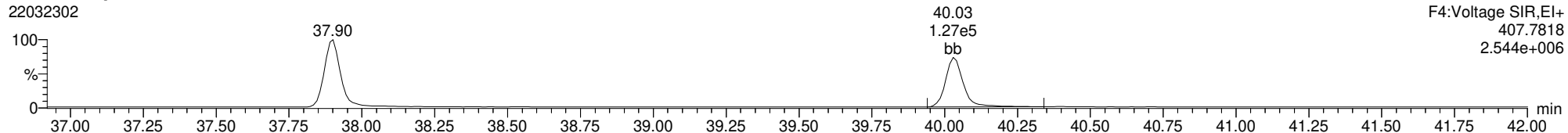
22032302



ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

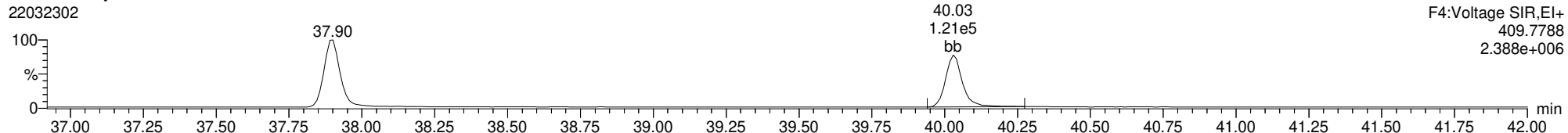
22032302



F4:Voltage SIR,El+  
407.7818  
2.544e+006

1234789-HpCDF

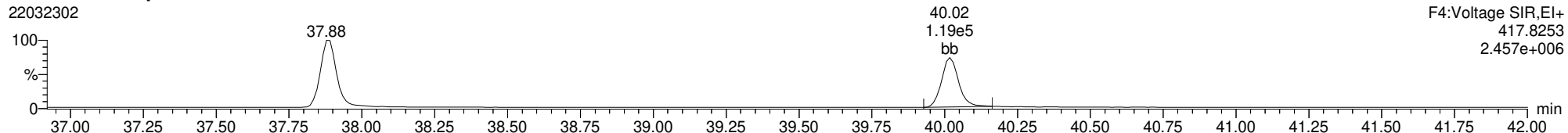
22032302



F4:Voltage SIR,El+  
409.7788  
2.388e+006

13C-1234789-HpCDF

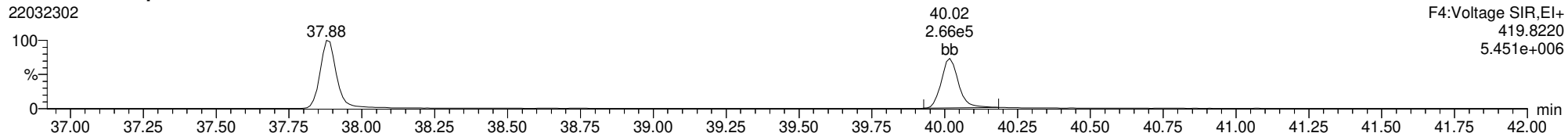
22032302



F4:Voltage SIR,El+  
417.8253  
2.457e+006

13C-1234789-HpCDF

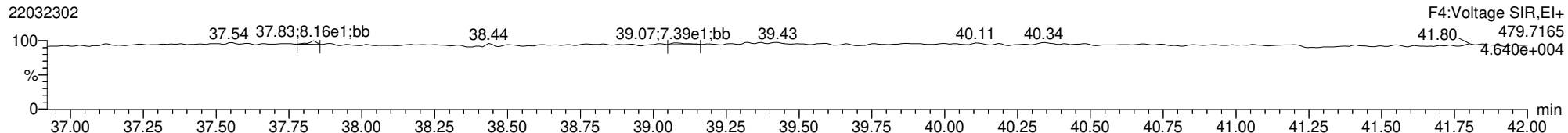
22032302



F4:Voltage SIR,El+  
419.8220  
5.451e+006

FUNCTION4 NCDPE

22032302

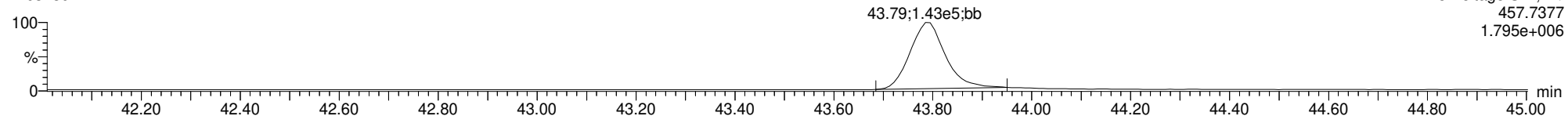


F4:Voltage SIR,El+  
479.7165  
4.640e+004

ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

**OCDD**

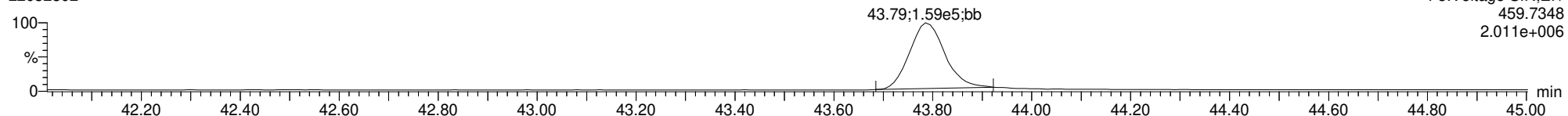
22032302



F5:Voltage SIR,El+  
457.7377  
1.795e+006

**OCDD**

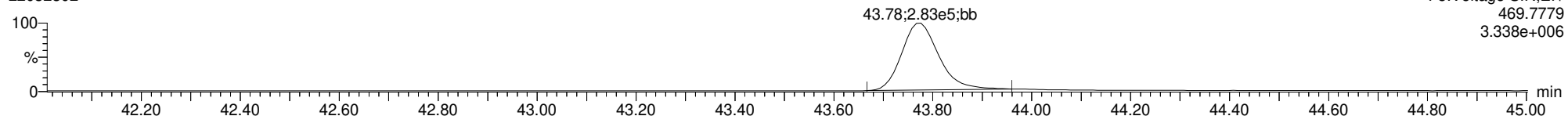
22032302



F5:Voltage SIR,El+  
459.7348  
2.011e+006

**13C-OCDD**

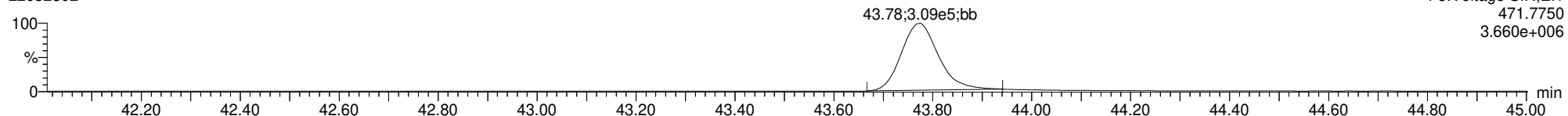
22032302



F5:Voltage SIR,El+  
469.7779  
3.338e+006

**13C-OCDD**

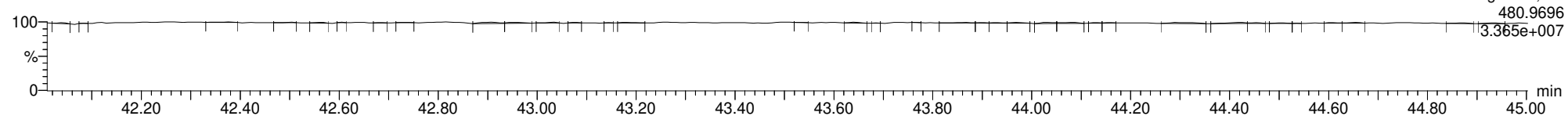
22032302



F5:Voltage SIR,El+  
471.7750  
3.660e+006

**FUNCTION5 PFK**

22032302

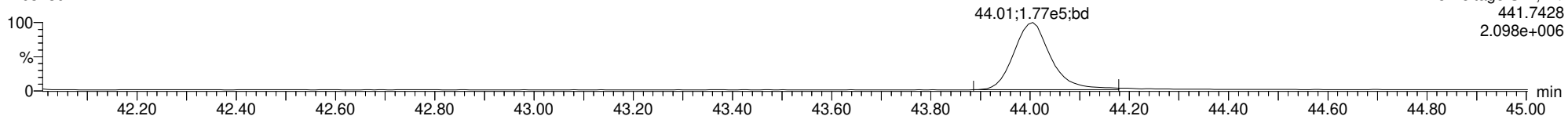


F5:Voltage SIR,El+  
480.9696  
3.365e+007

ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

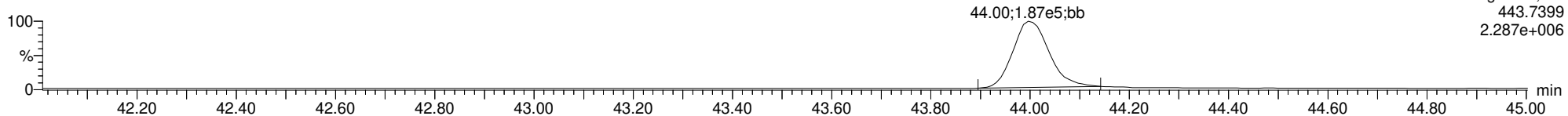
**OCDF**

22032302



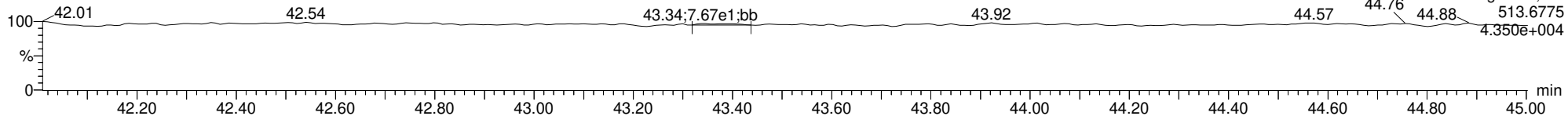
**OCDF**

22032302



**FUNCTION5 DCDPE**

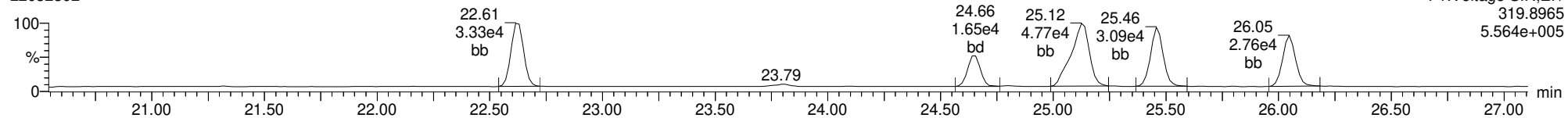
22032302



ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

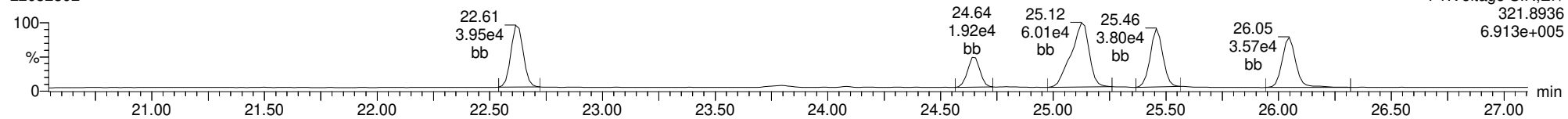
**Total-tetradoxins**

22032302



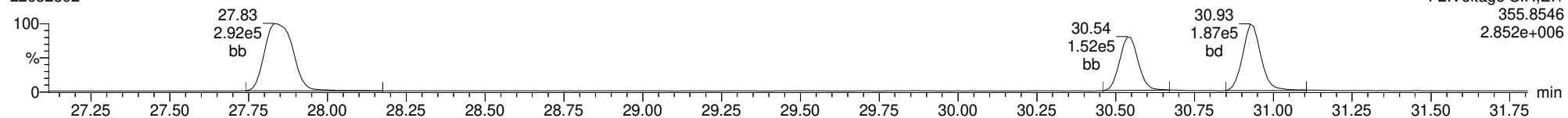
**Total-tetradoxins**

22032302



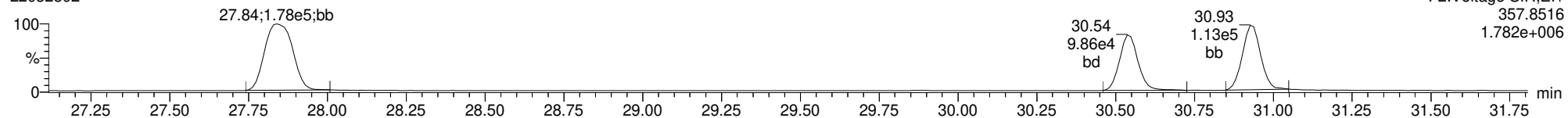
**Total-pentadoxins**

22032302



**Total-pentadoxins**

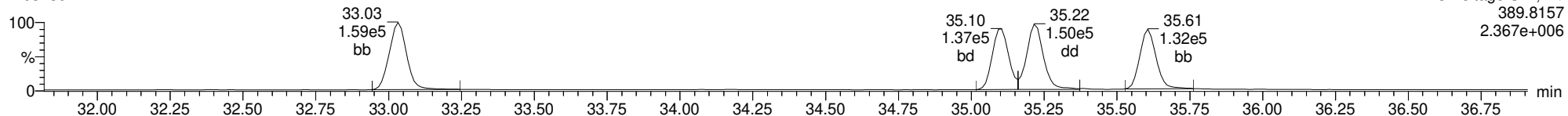
22032302



ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

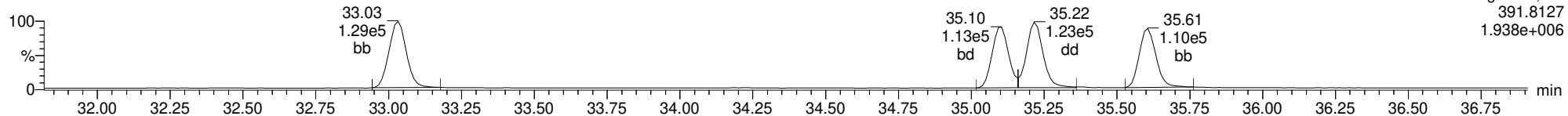
**Total-hexadioxins**

22032302



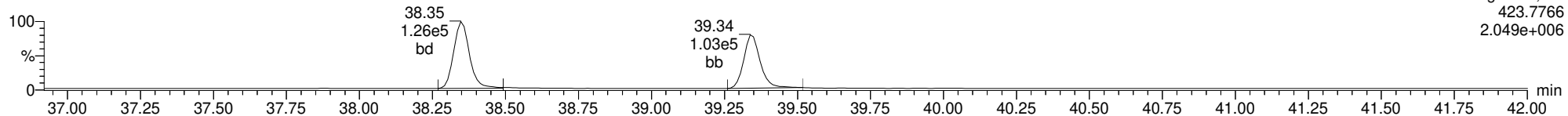
**Total-hexadioxins**

22032302



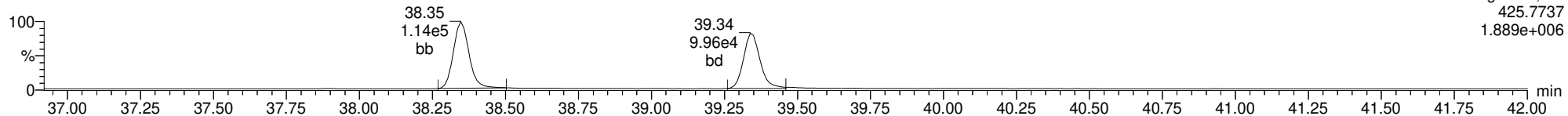
**Total-heptadioxins**

22032302



**Total-heptadioxins**

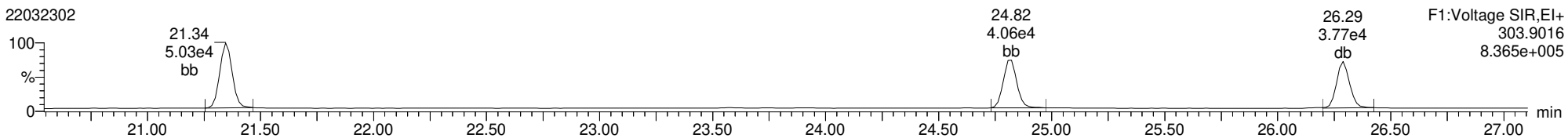
22032302



ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

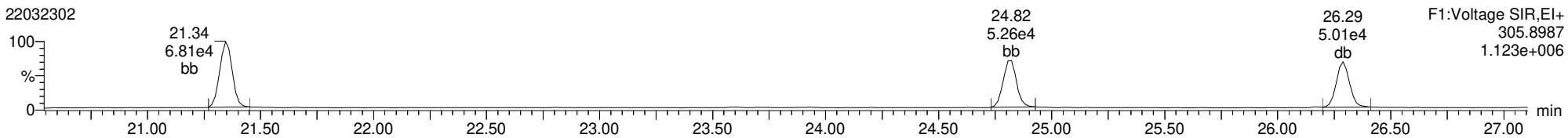
**Total-tetrafurans**

22032302



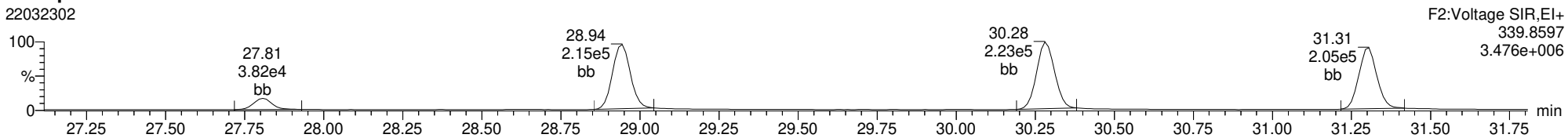
**Total-tetrafurans**

22032302



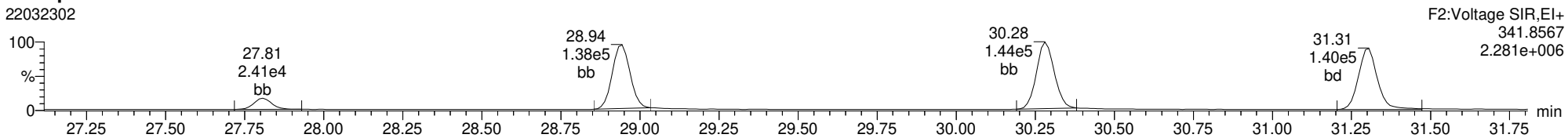
**Total-pentafurans**

22032302



**Total-pentafurans**

22032302

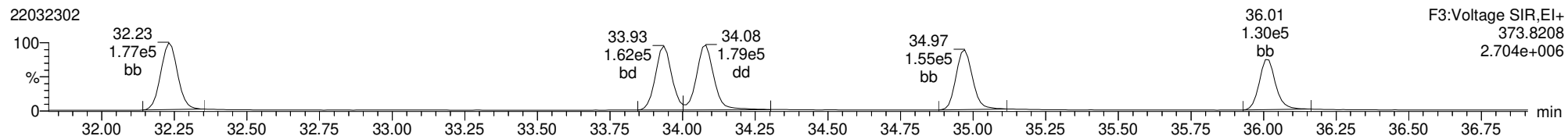




ID: CS3H1, Name: 22032302, Date: 23-Mar-2022, Time: 09:30:37, Conditions: AUTOSPEC01, User: pk

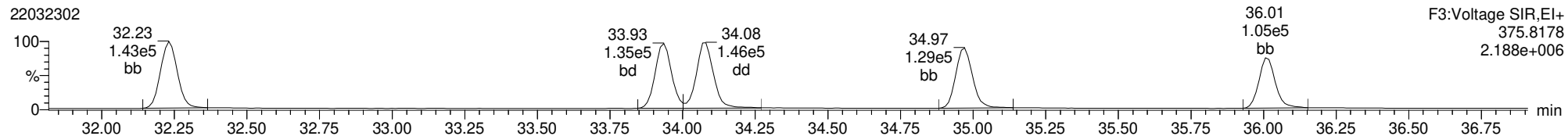
**Total-hexafurans**

22032302



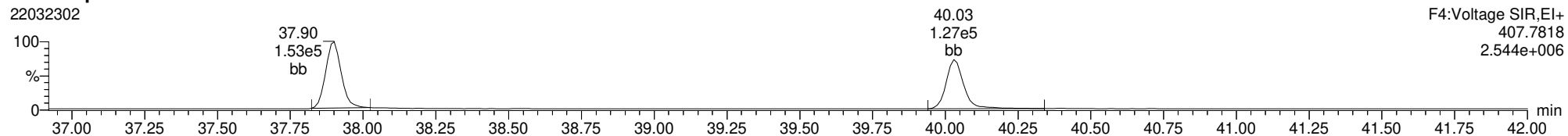
**Total-hexafurans**

22032302



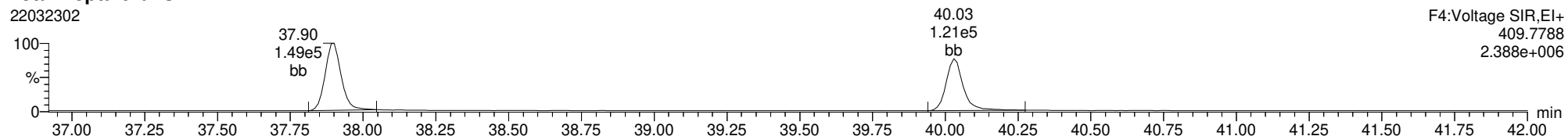
**Total-heptafurans**

22032302

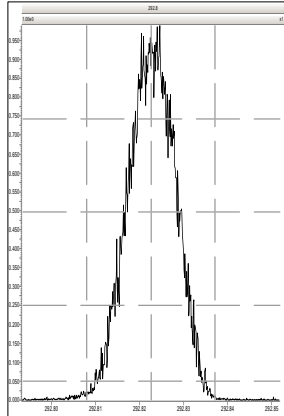


**Total-heptafurans**

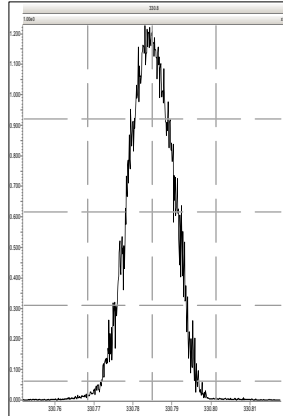
22032302



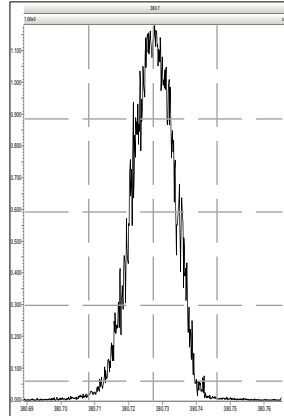
M 292.9824 R 12437



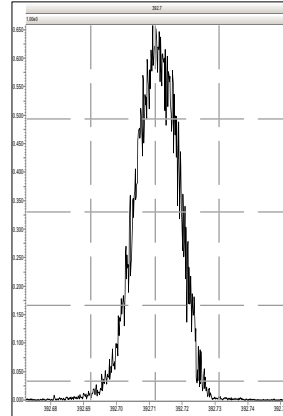
M 330.9792 R 13892



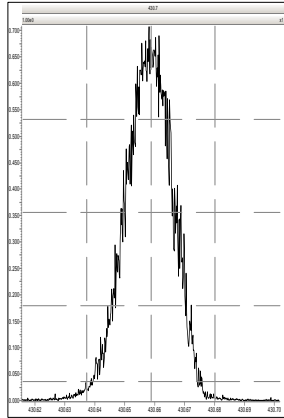
M 380.9760 R 14247



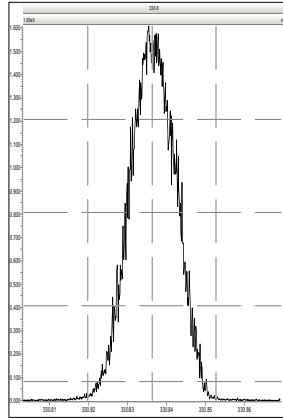
M 392.9760 R 13927



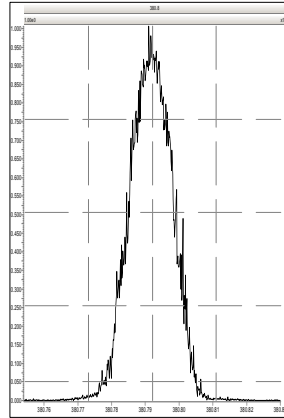
M 430.9728 R 12255



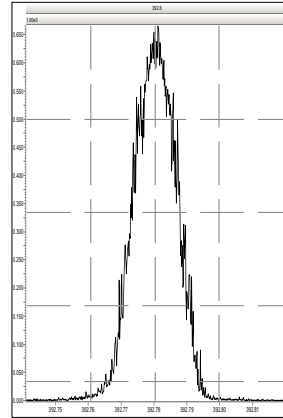
M 330.9792 R 12825



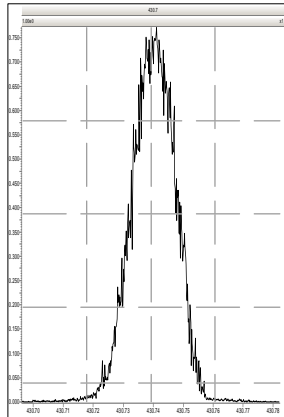
M 380.9760 R 14208



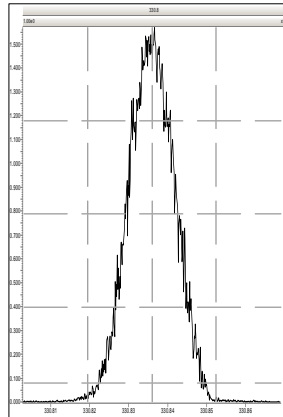
M 392.9760 R 14458



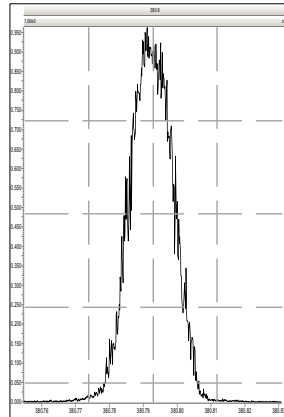
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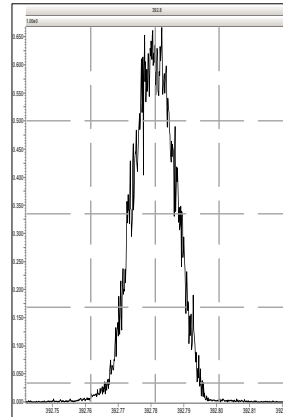
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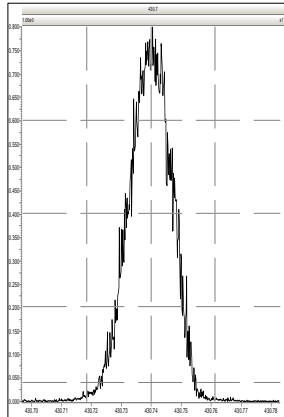
M 380.9760 R 14008



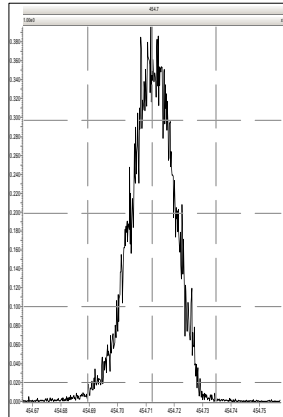
M 392.9760 R 14454



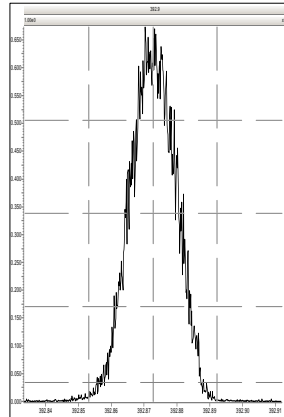
M 430.9728 R 13889



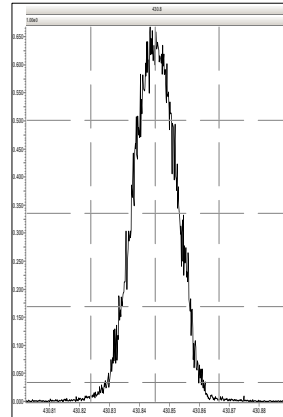
M 454.9728 R 13333



M 392.9760 R 13061

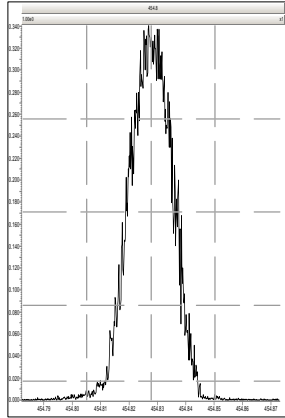


M 430.9728 R 14085

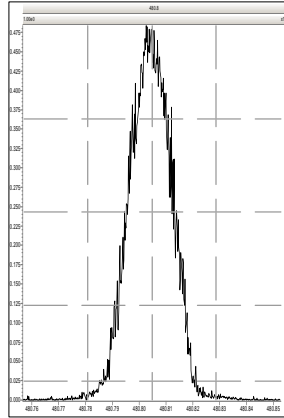


Printed: Wednesday, March 23, 2022 09:28:25 Pacific Daylight Time

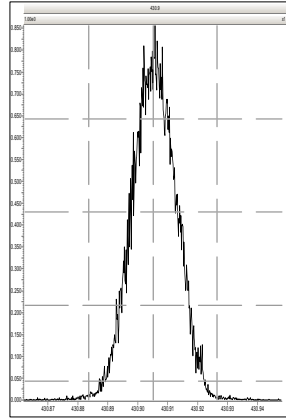
M 454.9728 R 14205



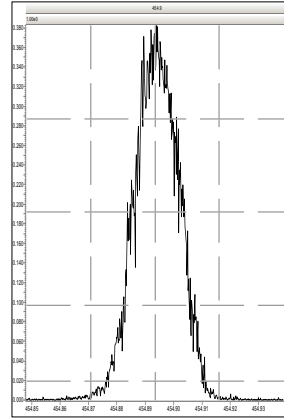
M 480.9696 R 14492



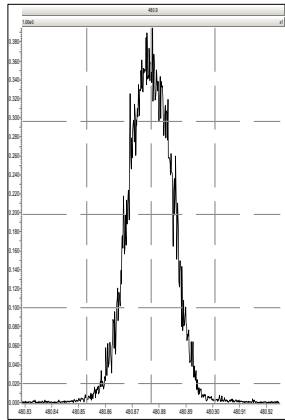
M 430.9728 R 12820



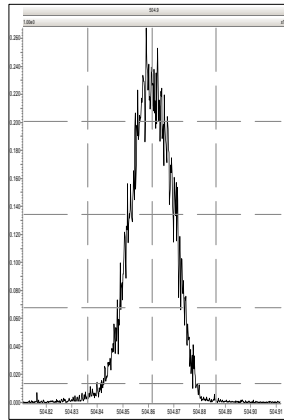
M 454.9728 R 13519



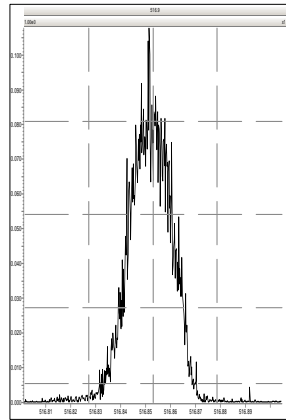
M 480.9696 R 13888



M 504.9696 R 14493



M 516.9697 R 13968

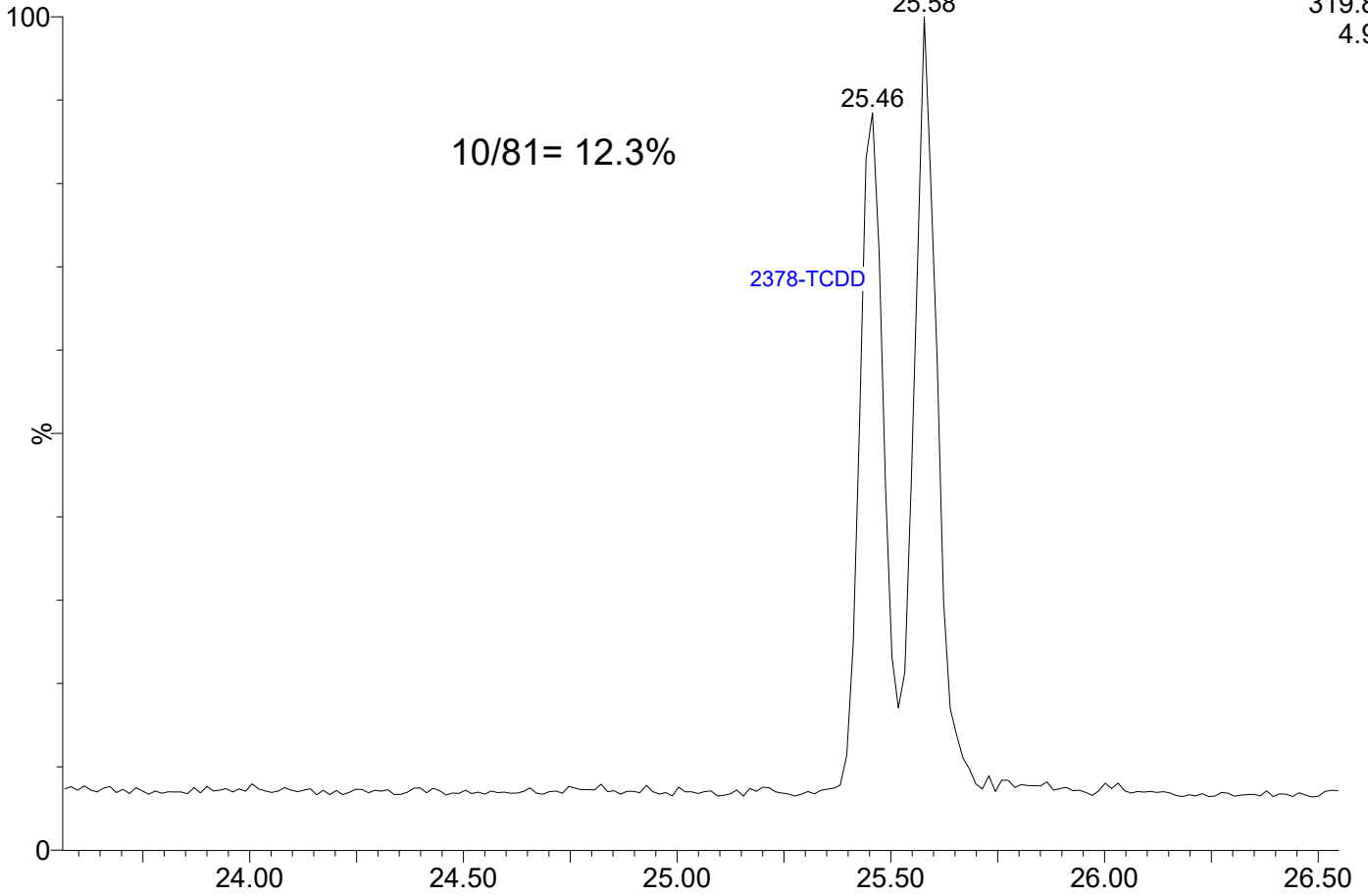


22032303

1: Voltage SIR 15 Channels EI+

319.8965

4.95e5

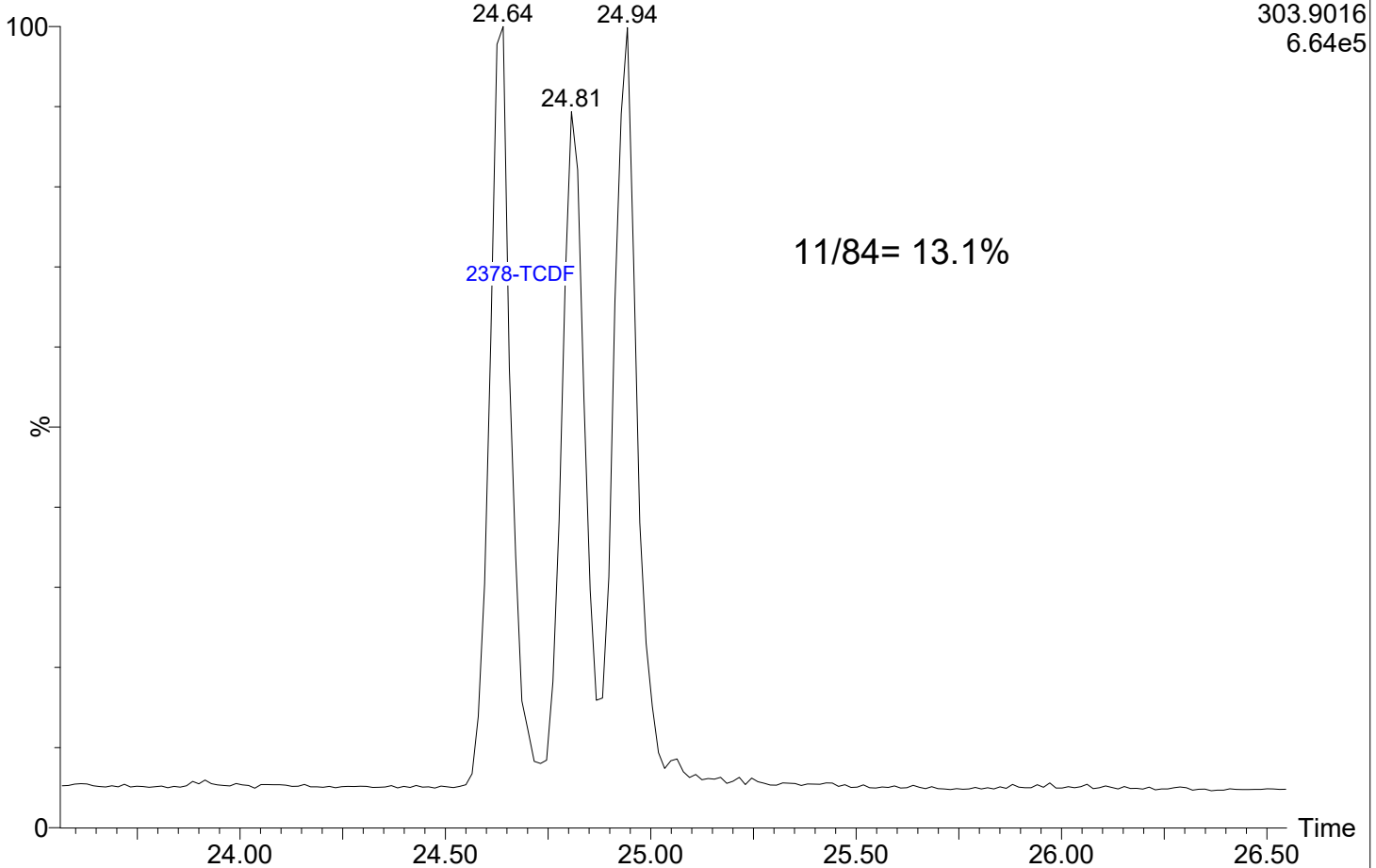


22032303

1: Voltage SIR 15 Channels EI+

303.9016

6.64e5



Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:36 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
 Calibration: 24 Mar 2022 08:56:14

ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.985		0.770	844	1557								
12378-PeCDF	28.910	1.000	2.182e3	1.444e3	0.906	1.511	1.550	1062	953	3.51e4	2.06e4	33.1	21.6	NO	bb	bb	0.501
23478-PeCDF	30.247	1.000	2.309e3	1.736e3	1.008	1.330	1.550	1062	953	3.32e4	2.20e4	31.3	23.0	NO	bb	bb	0.547
123478-HxCDF	33.913	1.000	1.569e3	1.370e3	1.045	1.145	1.240	750	578	2.10e4	2.19e4	28.0	37.9	NO	MM	bd	0.527
234678-HxCDF	34.949	1.000	1.725e3	1.313e3	1.101	1.314	1.240	750	578	2.43e4	1.52e4	32.3	26.2	NO	bb	MM	0.565
123678-HxCDF	34.058	1.001	1.396e3	1.269e3	1.019	1.100	1.240	750	578	2.13e4	1.92e4	28.4	33.2	NO	db	db	0.460
123789-HxCDF	35.996	1.001	1.356e3	9.904e2	0.992	1.370	1.240	750	578	2.01e4	1.37e4	26.7	23.7	NO	bb	MM	0.577
1234678-HpCDF	37.890	1.001	1.462e3	1.445e3	1.243	1.012	1.050	632	536	2.22e4	2.51e4	35.0	46.9	NO	bb	bb	0.545
1234789-HpCDF	39.996	1.000	1.043e3	9.609e2	1.192	1.085	1.050	632	536	1.42e4	1.60e4	22.5	29.9	NO	MM	bb	0.522
OCDF	43.988	1.005	1.623e3	1.602e3	1.303	1.013	0.890	765	953	2.11e4	1.80e4	27.6	18.9	NO	bd	MM	1.031
2378-TCDD					1.168		0.770	1660	845								
12378-PeCDD	30.515	1.000	1.443e3	9.646e2	1.152	1.496	1.550	911	888	2.03e4	1.34e4	22.3	15.1	NO	bb	db	0.495
123478-HxCDD	35.083	1.000	1.217e3	1.041e3	0.934	1.169	1.240	999	961	2.19e4	1.80e4	21.9	18.7	NO	dd	bd	0.507
123678-HxCDD	35.216	1.001	1.306e3	1.224e3	0.950	1.067	1.240	999	961	1.91e4	1.63e4	19.2	17.0	NO	MM	db	0.509
123789-HxCDD	35.584	1.011	1.306e3	9.907e2	0.873	1.319	1.240	999	961	2.34e4	1.35e4	23.4	14.0	NO	bb	bb	0.526
1234678-HpCDD	39.317	1.000	9.634e2	9.665e2	1.268	0.997	1.050	861	634	1.69e4	1.32e4	19.7	20.8	NO	bb	bb	0.549
OCDD					1.089		0.890	691	811								
13C-2378-TCDF	24.762	1.007	4.369e5	5.480e5	1.751	0.797	0.770	4091	2317	6.38e6	8.02e6	1558.4	3463.4	NO	bb	bb	99.322
13C-12378-PeCDF	28.899	1.175	4.866e5	3.124e5	1.442	1.558	1.550	2384	1995	7.07e6	4.53e6	2965.7	2269.0	NO	bd	bd	97.886
13C-23478-PeCDF	30.236	1.229	4.441e5	2.895e5	1.366	1.534	1.550	2384	1995	6.47e6	4.24e6	2713.9	2125.9	NO	bb	bb	94.864
13C-123478-HxCDF	33.902	0.953	1.790e5	3.543e5	1.095	0.505	0.510	2343	2487	2.66e6	5.17e6	1137.5	2078.4	NO	bd	bd	100.542
13C-123678-HxCDF	34.035	0.957	1.880e5	3.805e5	1.168	0.494	0.510	2343	2487	2.73e6	5.49e6	1164.1	2207.4	NO	db	db	100.477
13C-234678-HxCDF	34.938	0.982	1.646e5	3.242e5	1.023	0.508	0.510	2343	2487	2.52e6	4.86e6	1074.0	1955.6	NO	bb	bb	98.609
13C-123789-HxCDF	35.974	1.011	1.372e5	2.730e5	0.879	0.502	0.510	2343	2487	1.99e6	3.98e6	850.4	1600.6	NO	bb	bb	96.337
13C-1234678-HpCDF	37.868	1.064	1.321e5	2.967e5	0.925	0.445	0.440	2076	2765	1.95e6	4.46e6	938.2	1613.1	NO	bb	bb	95.606
13C-1234789-HpCDF	39.996	1.124	9.943e4	2.222e5	0.715	0.447	0.440	2076	2765	1.34e6	3.03e6	647.5	1094.2	NO	bb	bb	92.864
13C-1234-TCDD	24.596	0.000	2.463e5	3.199e5	1.000	0.770	0.770	2077	1903	3.78e6	4.85e6	1820.4	2546.0	NO	bb	bb	100.000
13C-2378-TCDD	25.412	1.033	2.559e5	3.366e5	1.081	0.760	0.770	2077	1903	3.72e6	4.89e6	1792.0	2570.8	NO	bb	bb	96.768
13C-12378-PeCDD	30.503	1.240	2.605e5	1.620e5	0.776	1.609	1.550	996	1659	3.82e6	2.33e6	3832.2	1402.6	NO	bb	bb	96.111
13C-123478-HxCDD	35.072	0.986	2.630e5	2.140e5	0.975	1.229	1.240	2094	1376	3.99e6	3.22e6	1906.9	2337.0	NO	bd	bd	100.972
13C-123678-HxCDD	35.183	0.989	2.851e5	2.382e5	1.067	1.197	1.240	2094	1376	4.17e6	3.41e6	1993.5	2481.0	NO	db	dd	101.261
13C-1234678-HpCDD	39.317	1.105	1.432e5	1.339e5	0.582	1.069	1.050	1554	1546	2.09e6	1.96e6	1344.4	1270.2	NO	bb	bb	98.323
13C-OCDD	43.759	1.230	2.284e5	2.517e5	0.509	0.907	0.890	1776	1877	2.31e6	2.51e6	1299.2	1337.5	NO	bd	bd	194.808
13C-123789-HxCDD	35.573	0.000	2.648e5	2.197e5	1.000	1.206	1.240	2094	1376	3.84e6	3.14e6	1834.8	2282.4	NO	bb	bb	100.000
37CL-2378-TCDD	25.427	1.034	6.455e2		1.120			1586		1.19e4		7.5			bb		0.102

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.300		0.770	844	1557								
1289-TCDF					0.931		0.770	844	1557								
13468-PECDF					1.308		1.550	722	1131								
12389-PECDF					0.860		1.550	1062	953								
123468-HXCDF					1.156		1.240	750	578								
1368-TCDD					1.151		0.770	1660	845								
1289-TCDD					0.950		0.770	1660	845								
12479-PECDD					2.164		1.550	911	888								
12389-PECDD					1.371		1.550	911	888								
124679-HXCDD					1.153		1.240	999	961								
1234679-HPCDD					1.473		1.050	861	634								
Total-tetrafurans			0.000e0		1.072			844		0.00e0							
Total-penta1			0.000e0					722		0.00e0							
Total-penta-furans			4.491e3		0.924			1062		6.83e4							1.048
Total-hexa-furans			6.047e3		1.063			750		8.66e4							2.128
Total-hepta-furans			2.504e3		1.218			632		3.64e4							1.068
Total-Furans			1.483e4		1.090			844		2.15e5							5.308
Total-tetradiioxins			0.000e0		1.090			1660		0.00e0							
Total-pentadiioxins			1.443e3		1.562			911		2.03e4							0.495
Total-hexadiioxins			3.829e3		0.978			999		6.45e4							1.542
Total-heptadiioxins			9.634e2		1.371			861		1.69e4							0.549
Total-Dioxins			6.235e3		1.207			1660		1.02e5							2.585
Total-TEQ			2.106e4					1660		3.16e5							7.894
FUNCTION1 PFK			1.914e6					774486		3.80e7							
FUNCTION2 PFK			8.463e5					590912		2.38e7							0.000
FUNCTION3 PFK			4.938e5					601001		1.60e7							0.000
FUNCTION4 PFK			6.989e5					394737		2.31e6							
FUNCTION5 PFK			3.003e5					240990		8.95e6							
FUNCTION1 HXCDPE			1.292e3					675		1.43e4							0.000
FUNCTION1 HPCDPE			1.990e3					764		2.62e4							0.000
FUNCTION2 HPCDPE			7.039e2					871		1.22e4							0.000
FUNCTION3 OCDPE			6.468e2					579		1.27e4							0.000
FUNCTION4 NCDPE			2.629e2					739		5.45e3							0.000
FUNCTION5 DCDPE			0.000e0					562		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
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**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**

**Calibration: 24 Mar 2022 08:56:14**

**ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	30.25	2.309e3	1.736e3	1.008	1.33	1.55	31.3	YES	NO	bb	bb	0.547
2	12378-PeCDF	28.91	2.182e3	1.444e3	0.906	1.51	1.55	33.1	YES	NO	bb	bb	0.501

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.00	1.356e3	9.904e2	0.992	1.37	1.24	26.7	YES	NO	bb	MM	0.577
2	234678-HxCDF	34.95	1.725e3	1.313e3	1.101	1.31	1.24	32.3	YES	NO	bb	MM	0.565
3	123678-HxCDF	34.06	1.396e3	1.269e3	1.019	1.10	1.24	28.4	YES	NO	db	db	0.460
4	123478-HxCDF	33.91	1.569e3	1.370e3	1.045	1.14	1.24	28.0	YES	NO	MM	bd	0.527

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.00	1.043e3	9.609e2	1.192	1.09	1.05	22.5	YES	NO	MM	bb	0.522
2	1234678-HpCDF	37.89	1.462e3	1.445e3	1.243	1.01	1.05	35.0	YES	NO	bb	bb	0.545

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	20.83	1.606e2	1.902e2	1.090	0.84	0.77	2.7	NO	NO	bb	dd	0.033
2	123789-HxCDF	36.00	1.356e3	9.904e2	0.992	1.37	1.24	26.7	YES	NO	bb	MM	0.577
3	234678-HxCDF	34.95	1.725e3	1.313e3	1.101	1.31	1.24	32.3	YES	NO	bb	MM	0.565
4	123678-HxCDF	34.06	1.396e3	1.269e3	1.019	1.10	1.24	28.4	YES	NO	db	db	0.460
5	123478-HxCDF	33.91	1.569e3	1.370e3	1.045	1.14	1.24	28.0	YES	NO	MM	bd	0.527
6	23478-PeCDF	30.25	2.309e3	1.736e3	1.008	1.33	1.55	31.3	YES	NO	bb	bb	0.547
7	12378-PeCDF	28.91	2.182e3	1.444e3	0.906	1.51	1.55	33.1	YES	NO	bb	bb	0.501
8	1234789-HpCDF	40.00	1.043e3	9.609e2	1.192	1.09	1.05	22.5	YES	NO	MM	bb	0.522
9	1234678-HpCDF	37.89	1.462e3	1.445e3	1.243	1.01	1.05	35.0	YES	NO	bb	bb	0.545
10	OCDF	43.99	1.623e3	1.602e3	1.303	1.01	0.89	27.6	YES	NO	bd	MM	1.031

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	30.51	1.443e3	9.646e2	1.152	1.50	1.55	22.3	YES	NO	bb	db	0.495

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	35.58	1.306e3	9.907e2	0.873	1.32	1.24	23.4	YES	NO	bb	bb	0.526
2	123678-HxCDD	35.22	1.306e3	1.224e3	0.950	1.07	1.24	19.2	YES	NO	MM	db	0.509
3	123478-HxCDD	35.08	1.217e3	1.041e3	0.934	1.17	1.24	21.9	YES	NO	dd	bd	0.507

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.32	9.634e2	9.665e2	1.268	1.00	1.05	19.7	YES	NO	bb	bb	0.549



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	35.58	1.306e3	9.907e2	0.873	1.32	1.24	23.4	YES	NO	bb	bb	0.526
2	123678-HxCDD	35.22	1.306e3	1.224e3	0.950	1.07	1.24	19.2	YES	NO	MM	db	0.509
3	123478-HxCDD	35.08	1.217e3	1.041e3	0.934	1.17	1.24	21.9	YES	NO	dd	bd	0.507
4	12378-PeCDD	30.51	1.443e3	9.646e2	1.152	1.50	1.55	22.3	YES	NO	bb	db	0.495
5	1234678-HpCDD	39.32	9.634e2	9.665e2	1.268	1.00	1.05	19.7	YES	NO	bb	bb	0.549

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	20.83	1.606e2	1.902e2	1.090	0.84	0.77	2.7	NO	NO	bb	dd	0.033
2	123789-HxCDF	36.00	1.356e3	9.904e2	0.992	1.37	1.24	26.7	YES	NO	bb	MM	0.577
3	234678-HxCDF	34.95	1.725e3	1.313e3	1.101	1.31	1.24	32.3	YES	NO	bb	MM	0.565
4	123678-HxCDF	34.06	1.396e3	1.269e3	1.019	1.10	1.24	28.4	YES	NO	db	db	0.460
5	123478-HxCDF	33.91	1.569e3	1.370e3	1.045	1.14	1.24	28.0	YES	NO	MM	bd	0.527
6	23478-PeCDF	30.25	2.309e3	1.736e3	1.008	1.33	1.55	31.3	YES	NO	bb	bb	0.547
7	12378-PeCDF	28.91	2.182e3	1.444e3	0.906	1.51	1.55	33.1	YES	NO	bb	bb	0.501
8	1234789-HpCDF	40.00	1.043e3	9.609e2	1.192	1.09	1.05	22.5	YES	NO	MM	bb	0.522
9	1234678-HpCDF	37.89	1.462e3	1.445e3	1.243	1.01	1.05	35.0	YES	NO	bb	bb	0.545
10	OCDF	43.99	1.623e3	1.602e3	1.303	1.01	0.89	27.6	YES	NO	bd	MM	1.031
11	123789-HxCDD	35.58	1.306e3	9.907e2	0.873	1.32	1.24	23.4	YES	NO	bb	bb	0.526
12	123678-HxCDD	35.22	1.306e3	1.224e3	0.950	1.07	1.24	19.2	YES	NO	MM	db	0.509
13	123478-HxCDD	35.08	1.217e3	1.041e3	0.934	1.17	1.24	21.9	YES	NO	dd	bd	0.507
14	12378-PeCDD	30.51	1.443e3	9.646e2	1.152	1.50	1.55	22.3	YES	NO	bb	db	0.495
15	1234678-HpCDD	39.32	9.634e2	9.665e2	1.268	1.00	1.05	19.7	YES	NO	bb	bb	0.549

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.01	7.235e4					1.0	NO		bb		
2	FUNCTION1 PFK	21.80	1.525e4					0.7	NO		bb		
3	FUNCTION1 PFK	21.72	1.429e4					0.6	NO		db		
4	FUNCTION1 PFK	21.66	1.729e4					0.8	NO		bd		
5	FUNCTION1 PFK	21.47	1.956e4					0.7	NO		bb		
6	FUNCTION1 PFK	21.12	3.299e4					1.2	NO		bb		
7	FUNCTION1 PFK	20.95	4.406e3					0.4	NO		bb		
8	FUNCTION1 PFK	20.89	4.247e4					1.6	NO		bb		
9	FUNCTION1 PFK	20.82	1.671e4					0.8	NO		bb		
10	FUNCTION1 PFK	20.75	5.001e4					2.0	NO		bb		
11	FUNCTION1 PFK	20.68	6.806e4					2.1	NO		db		
12	FUNCTION1 PFK	20.62	1.302e4					0.8	NO		bd		
13	FUNCTION1 PFK	24.81	3.919e4					1.2	NO		bb		
14	FUNCTION1 PFK	24.70	1.233e4					0.6	NO		bb		
15	FUNCTION1 PFK	24.64	5.530e3					0.5	NO		bb		
16	FUNCTION1 PFK	23.96	4.217e4					1.0	NO		bb		
17	FUNCTION1 PFK	23.88	2.971e4					1.1	NO		bb		
18	FUNCTION1 PFK	23.75	3.986e3					0.3	NO		bb		
19	FUNCTION1 PFK	23.54	6.363e4					1.2	NO		bb		
20	FUNCTION1 PFK	23.42	3.040e4					1.2	NO		bb		
21	FUNCTION1 PFK	23.25	2.427e4					0.9	NO		db		
22	FUNCTION1 PFK	23.16	3.651e4					1.0	NO		bd		
23	FUNCTION1 PFK	22.98	3.973e4					1.2	NO		db		
24	FUNCTION1 PFK	22.92	4.886e4					1.5	NO		bd		
25	FUNCTION1 PFK	22.77	1.695e5					1.8	NO		db		
26	FUNCTION1 PFK	22.65	7.487e4					2.0	NO		bd		
27	FUNCTION1 PFK	22.51	5.703e4					0.9	NO		bb		
28	FUNCTION1 PFK	22.43	1.031e4					0.5	NO		bb		
29	FUNCTION1 PFK	26.91	5.849e3					0.4	NO		db		
30	FUNCTION1 PFK	26.85	5.101e4					1.4	NO		dd		
31	FUNCTION1 PFK	26.74	1.311e5					2.4	NO		bd		
32	FUNCTION1 PFK	26.26	5.353e4					1.2	NO		bb		
33	FUNCTION1 PFK	26.14	6.768e4					1.3	NO		db		
34	FUNCTION1 PFK	26.05	8.927e4					1.5	NO		dd		
35	FUNCTION1 PFK	25.93	3.222e4					1.0	NO		bd		
36	FUNCTION1 PFK	25.85	3.011e4					1.2	NO		bb		
37	FUNCTION1 PFK	25.73	5.601e4					1.2	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	25.44	7.176e4					1.6	NO		bb		
39	FUNCTION1 PFK	25.37	3.686e4					1.4	NO		bb		
40	FUNCTION1 PFK	25.23	5.547e4					1.5	NO		db		
41	FUNCTION1 PFK	25.17	8.963e4					1.5	NO		bd		
42	FUNCTION1 PFK	24.91	8.916e4					1.8	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	27.15	1.764e5					5.9	YES		bd		0.000
2	FUNCTION2 PFK	29.95	2.397e4					1.4	NO		db		0.000
3	FUNCTION2 PFK	29.90	4.098e4					1.8	NO		bd		0.000
4	FUNCTION2 PFK	29.62	3.409e4					1.6	NO		bb		0.000
5	FUNCTION2 PFK	29.58	3.036e3					0.5	NO		bb		0.000
6	FUNCTION2 PFK	29.48	2.135e4					1.6	NO		bb		0.000
7	FUNCTION2 PFK	29.27	1.441e4					0.8	NO		bb		0.000
8	FUNCTION2 PFK	28.92	2.232e4					1.6	NO		bb		0.000
9	FUNCTION2 PFK	28.72	7.550e3					0.7	NO		bb		0.000
10	FUNCTION2 PFK	28.59	4.226e3					0.6	NO		bb		0.000
11	FUNCTION2 PFK	28.35	3.772e4					1.6	NO		bb		0.000
12	FUNCTION2 PFK	27.99	3.066e3					0.5	NO		bb		0.000
13	FUNCTION2 PFK	27.75	2.876e3					0.4	NO		bb		0.000
14	FUNCTION2 PFK	27.70	1.632e4					1.1	NO		bb		0.000
15	FUNCTION2 PFK	27.33	6.188e4					2.4	NO		bb		0.000
16	FUNCTION2 PFK	27.27	4.167e4					3.4	YES		db		0.000
17	FUNCTION2 PFK	27.23	1.866e5					5.9	YES		dd		0.000
18	FUNCTION2 PFK	31.66	3.910e3					0.6	NO		bb		0.000
19	FUNCTION2 PFK	31.12	1.365e4					0.7	NO		bb		0.000
20	FUNCTION2 PFK	31.07	4.605e3					0.5	NO		bb		0.000
21	FUNCTION2 PFK	30.97	9.982e3					0.7	NO		bb		0.000
22	FUNCTION2 PFK	30.86	3.169e3					0.5	NO		bb		0.000
23	FUNCTION2 PFK	30.82	1.216e4					1.1	NO		bb		0.000
24	FUNCTION2 PFK	30.77	5.387e4					1.7	NO		db		0.000
25	FUNCTION2 PFK	30.67	3.604e4					1.8	NO		bd		0.000
26	FUNCTION2 PFK	30.28	1.039e4					0.9	NO		bb		0.000

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\220323\CIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:36 Pacific Daylight Time

ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

## PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	32.40	2.796e3					0.4	NO		bb		0.000
2	FUNCTION3 PFK	32.29	2.890e4					0.9	NO		bb		0.000
3	FUNCTION3 PFK	32.22	9.759e3					0.6	NO		bb		0.000
4	FUNCTION3 PFK	32.17	9.546e3					0.7	NO		bb		0.000
5	FUNCTION3 PFK	31.93	1.781e4					1.1	NO		bb		0.000
6	FUNCTION3 PFK	31.87	6.951e3					1.0	NO		bb		0.000
7	FUNCTION3 PFK	34.84	3.612e4					1.4	NO		bb		0.000
8	FUNCTION3 PFK	34.63	2.779e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	34.41	2.567e4					1.6	NO		bb		0.000
10	FUNCTION3 PFK	34.36	1.546e4					1.4	NO		bb		0.000
11	FUNCTION3 PFK	34.24	2.362e4					1.3	NO		bb		0.000
12	FUNCTION3 PFK	34.05	8.164e3					0.6	NO		bb		0.000
13	FUNCTION3 PFK	33.96	5.843e3					0.6	NO		bb		0.000
14	FUNCTION3 PFK	33.82	2.330e4					0.8	NO		bb		0.000
15	FUNCTION3 PFK	33.71	5.523e4					1.5	NO		bb		0.000
16	FUNCTION3 PFK	33.53	3.852e3					0.6	NO		bb		0.000
17	FUNCTION3 PFK	33.13	2.304e4					1.1	NO		bb		0.000
18	FUNCTION3 PFK	32.99	8.830e3					0.7	NO		bb		0.000
19	FUNCTION3 PFK	32.71	4.138e4					1.3	NO		bb		0.000
20	FUNCTION3 PFK	32.60	8.423e3					0.6	NO		bb		0.000
21	FUNCTION3 PFK	32.51	2.883e4					1.0	NO		bb		0.000
22	FUNCTION3 PFK	32.46	1.051e4					0.9	NO		bb		0.000
23	FUNCTION3 PFK	36.91	6.428e3					0.0	NO		bb		0.000
24	FUNCTION3 PFK	36.80	1.131e4					1.0	NO		bb		0.000
25	FUNCTION3 PFK	36.19	7.082e3					0.6	NO		bb		0.000
26	FUNCTION3 PFK	36.12	1.376e4					0.9	NO		bb		0.000
27	FUNCTION3 PFK	36.02	3.306e3					0.5	NO		bb		0.000
28	FUNCTION3 PFK	35.83	9.675e3					0.6	NO		bb		0.000
29	FUNCTION3 PFK	35.76	5.584e3					0.6	NO		bb		0.000
30	FUNCTION3 PFK	35.36	6.650e3					0.6	NO		bb		0.000
31	FUNCTION3 PFK	34.90	8.131e3					0.8	NO		bb		0.000

## PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	37.08	6.989e5					5.8	YES		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:36 Pacific Daylight Time

**ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk**

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.21	3.562e4					2.5	NO		dd		
2	FUNCTION5 PFK	42.13	8.144e3					1.9	NO		bd		
3	FUNCTION5 PFK	42.09	2.669e3					1.1	NO		db		
4	FUNCTION5 PFK	42.07	7.251e3					1.5	NO		bd		
5	FUNCTION5 PFK	43.81	1.183e3					0.5	NO		bd		
6	FUNCTION5 PFK	43.77	6.418e3					1.0	NO		bb		
7	FUNCTION5 PFK	43.54	1.472e4					2.0	NO		bb		
8	FUNCTION5 PFK	43.46	2.770e3					0.7	NO		bb		
9	FUNCTION5 PFK	43.41	7.215e3					0.9	NO		db		
10	FUNCTION5 PFK	43.35	5.692e3					1.1	NO		dd		
11	FUNCTION5 PFK	43.29	6.109e3					1.0	NO		bd		
12	FUNCTION5 PFK	43.05	1.121e4					1.2	NO		bb		
13	FUNCTION5 PFK	42.99	4.112e3					1.1	NO		bb		
14	FUNCTION5 PFK	42.93	1.915e3					0.9	NO		bb		
15	FUNCTION5 PFK	42.81	7.014e3					1.2	NO		bb		
16	FUNCTION5 PFK	42.71	2.379e3					0.7	NO		bb		
17	FUNCTION5 PFK	42.61	3.589e4					1.9	NO		bb		
18	FUNCTION5 PFK	42.40	1.659e4					2.7	NO		db		
19	FUNCTION5 PFK	42.37	1.165e4					2.5	NO		dd		
20	FUNCTION5 PFK	42.29	5.354e4					2.7	NO		dd		
21	FUNCTION5 PFK	44.96	2.702e3					0.6	NO		bb		
22	FUNCTION5 PFK	44.54	8.814e3					1.4	NO		db		
23	FUNCTION5 PFK	44.49	4.535e3					0.9	NO		bd		
24	FUNCTION5 PFK	44.30	1.003e4					1.3	NO		db		
25	FUNCTION5 PFK	44.26	4.208e3					0.9	NO		bd		
26	FUNCTION5 PFK	44.07	3.394e3					0.6	NO		bb		
27	FUNCTION5 PFK	43.94	6.102e3					0.9	NO		db		
28	FUNCTION5 PFK	43.89	1.841e4					1.5	NO		dd		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323\CIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:36 Pacific Daylight Time

**ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk**

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCDPE	25.96	1.322e2					2.8	NO		bd		0.000
2	FUNCTION1 HXCDPE	25.81	3.997e2					3.3	YES		bb		0.000
3	FUNCTION1 HXCDPE	23.20	8.955e1					1.4	NO		bb		0.000
4	FUNCTION1 HXCDPE	22.92	1.033e2					2.3	NO		bb		0.000
5	FUNCTION1 HXCDPE	22.31	9.712e1					4.5	YES		bb		0.000
6	FUNCTION1 HXCDPE	20.82	1.275e2					1.4	NO		db		0.000
7	FUNCTION1 HXCDPE	20.68	8.884e1					2.1	NO		bd		0.000
8	FUNCTION1 HXCDPE	26.58	1.701e2					2.1	NO		bb		0.000
9	FUNCTION1 HXCDPE	26.21	8.403e1					1.4	NO		db		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCDPE	25.23	1.220e2					1.8	NO		bd		0.000
2	FUNCTION1 HPCDPE	25.09	7.453e1					1.7	NO		bb		0.000
3	FUNCTION1 HPCDPE	24.29	7.818e1					1.8	NO		bb		0.000
4	FUNCTION1 HPCDPE	23.13	1.677e2					2.7	NO		bb		0.000
5	FUNCTION1 HPCDPE	22.60	9.393e1					2.6	NO		bb		0.000
6	FUNCTION1 HPCDPE	22.49	1.011e2					1.3	NO		bb		0.000
7	FUNCTION1 HPCDPE	22.24	8.940e1					1.8	NO		bb		0.000
8	FUNCTION1 HPCDPE	21.65	1.281e2					1.7	NO		db		0.000
9	FUNCTION1 HPCDPE	21.51	8.689e1					1.8	NO		bd		0.000
10	FUNCTION1 HPCDPE	21.36	8.277e1					1.6	NO		bb		0.000
11	FUNCTION1 HPCDPE	20.88	7.084e1					1.9	NO		db		0.000
12	FUNCTION1 HPCDPE	20.74	3.465e2					4.3	YES		dd		0.000
13	FUNCTION1 HPCDPE	20.62	1.503e2					2.3	NO		bd		0.000
14	FUNCTION1 HPCDPE	26.58	9.449e1					2.1	NO		db		0.000
15	FUNCTION1 HPCDPE	26.52	1.346e2					2.9	NO		bd		0.000
16	FUNCTION1 HPCDPE	25.46	1.686e2					2.0	NO		db		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:36 Pacific Daylight Time

**ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk**

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	30.51	9.981e1					2.0	NO		bb		0.000
2	FUNCTION2 HPCDPE	29.70	9.173e1					1.8	NO		bb		0.000
3	FUNCTION2 HPCDPE	29.58	7.477e1					2.1	NO		db		0.000
4	FUNCTION2 HPCDPE	29.47	1.154e2					2.3	NO		dd		0.000
5	FUNCTION2 HPCDPE	29.36	9.932e1					1.8	NO		bd		0.000
6	FUNCTION2 HPCDPE	28.33	1.296e2					2.6	NO		bb		0.000
7	FUNCTION2 HPCDPE	27.92	9.328e1					1.4	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.46	1.074e2					3.5	YES		bd		0.000
2	FUNCTION3 OCDPE	35.57	2.099e2					4.8	YES		bb		0.000
3	FUNCTION3 OCDPE	34.95	7.259e1					2.3	NO		bb		0.000
4	FUNCTION3 OCDPE	33.14	7.731e1					6.0	YES		bb		0.000
5	FUNCTION3 OCDPE	36.68	8.361e1					2.9	NO		db		0.000
6	FUNCTION3 OCDPE	36.59	9.606e1					2.6	NO		dd		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.09	1.076e2					2.2	NO		db		0.000
2	FUNCTION4 NCDPE	37.99	1.553e2					5.1	YES		bd		0.000

**ETHERS6**

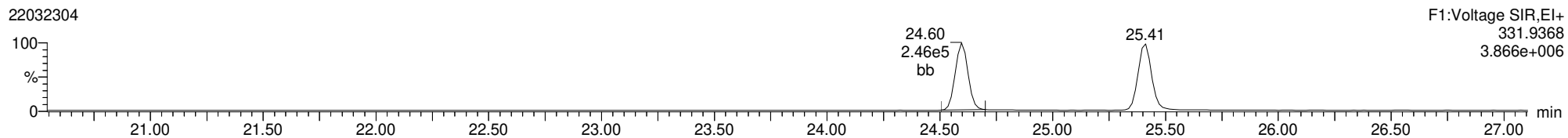
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1													

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
Calibration: 24 Mar 2022 08:56:14

ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

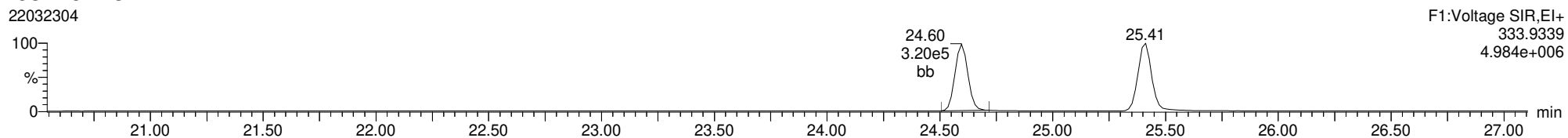
13C-1234-TCDD

22032304



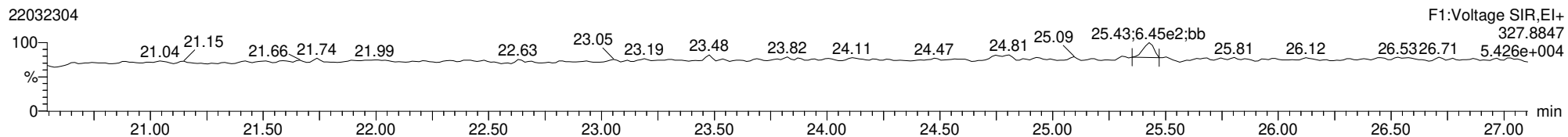
13C-1234-TCDD

22032304



37CL-2378-TCDD

22032304

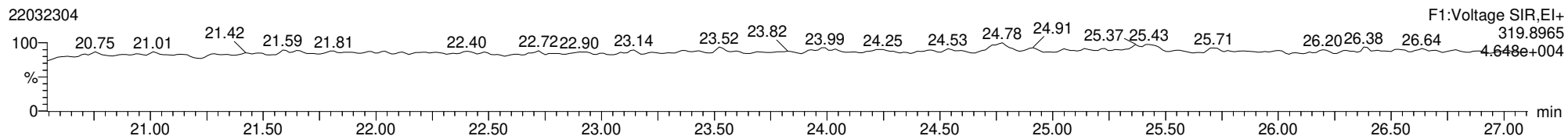




ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

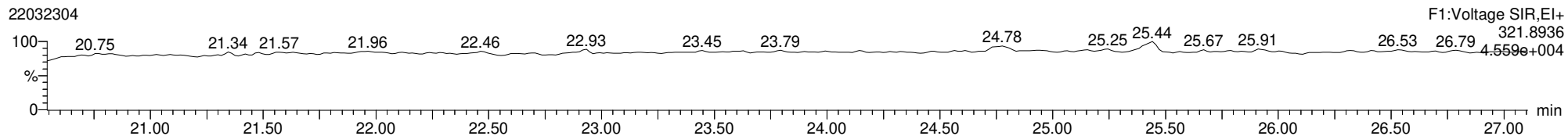
**2378-TCDD**

22032304



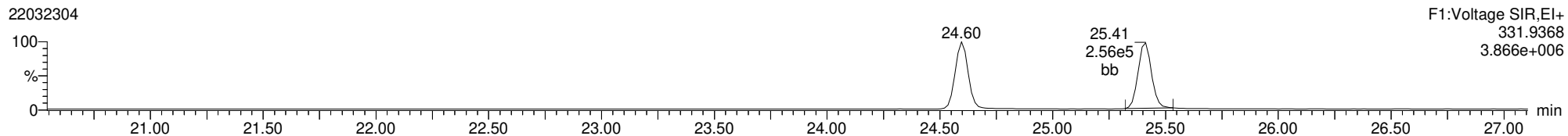
**2378-TCDD**

22032304



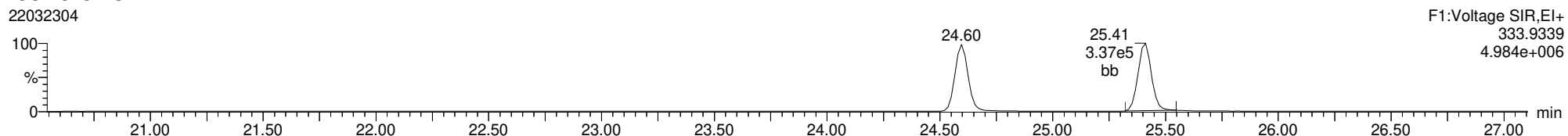
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22032304



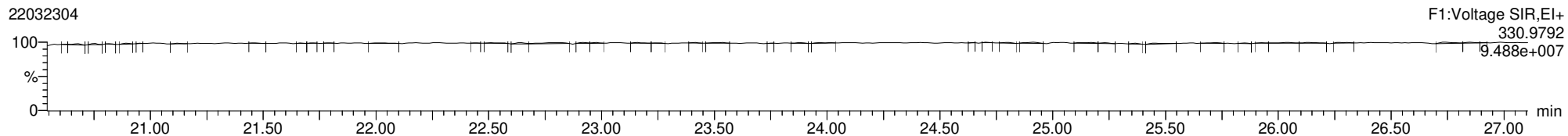
**13C-2378-TCDD**

22032304



**FUNCTION1 PFK**

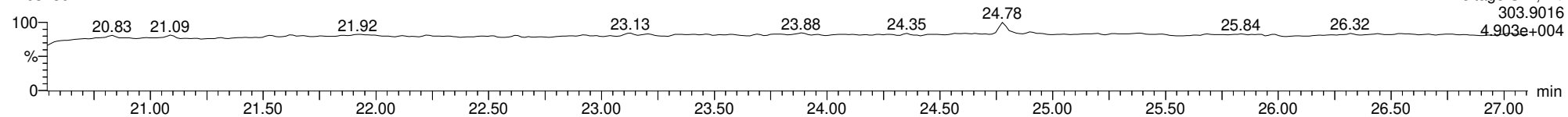
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

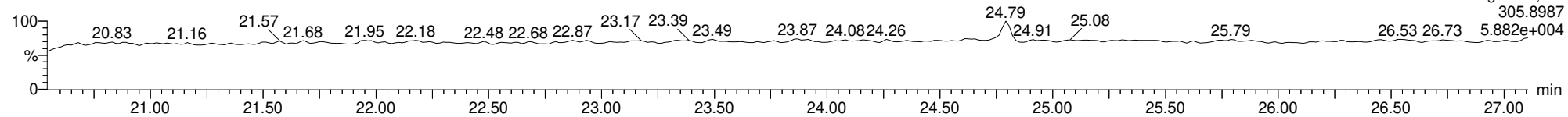
2378-TCDF

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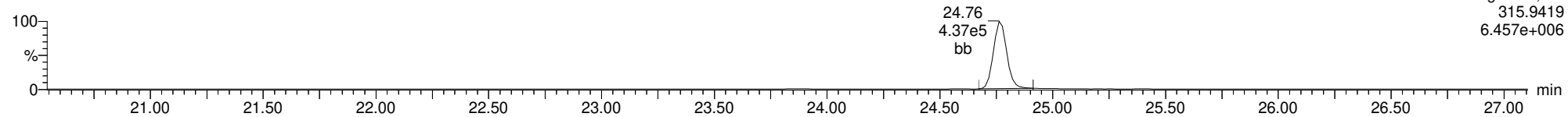
2378-TCDF

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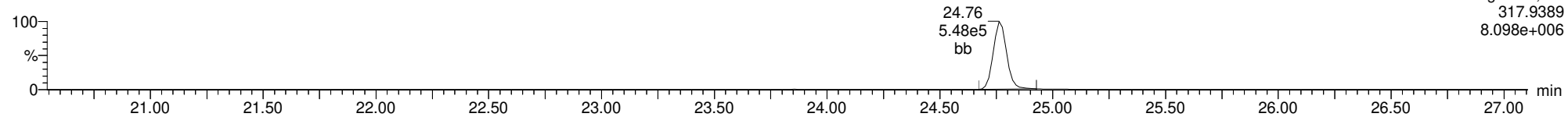
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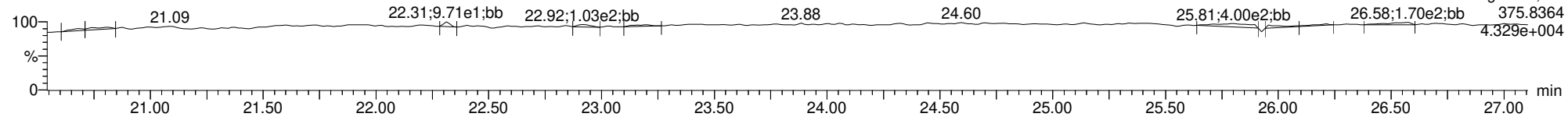
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22032304



FUNCTION1 HXCDPE

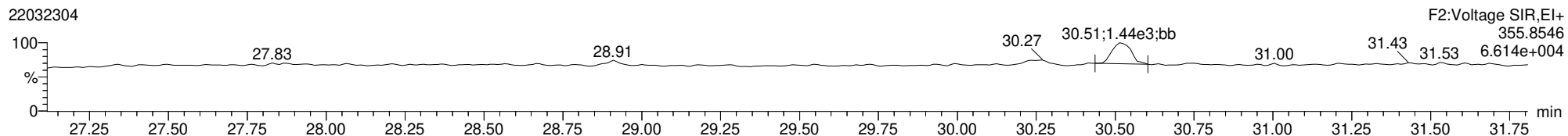
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

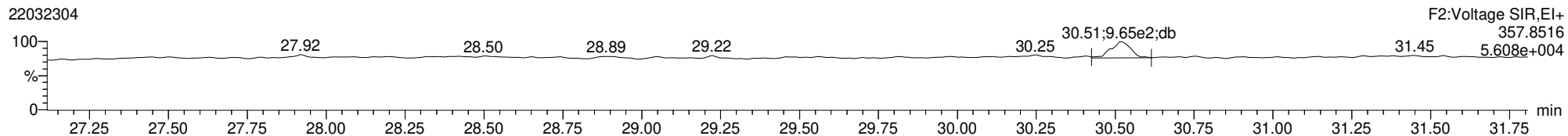
12378-PeCDD

22032304



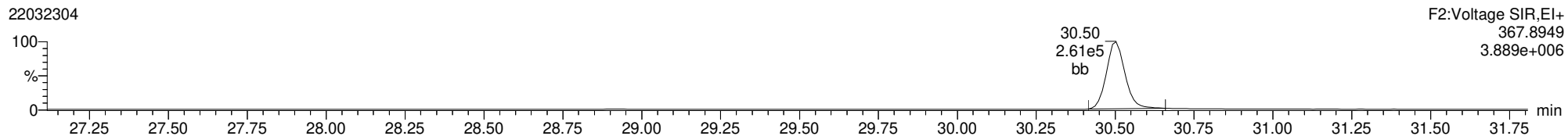
12378-PeCDD

22032304



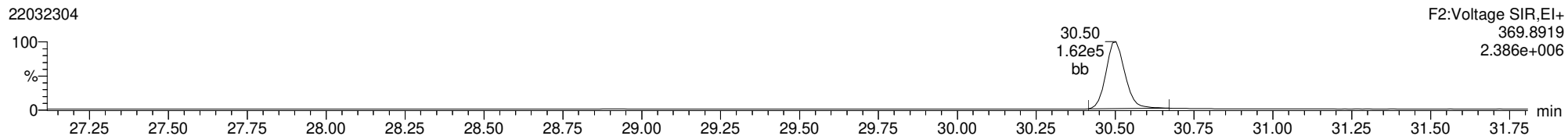
13C-12378-PeCDD

22032304



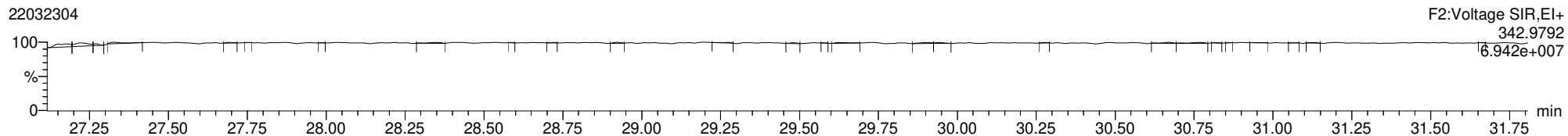
13C-12378-PeCDD

22032304



FUNCTION2 PFK

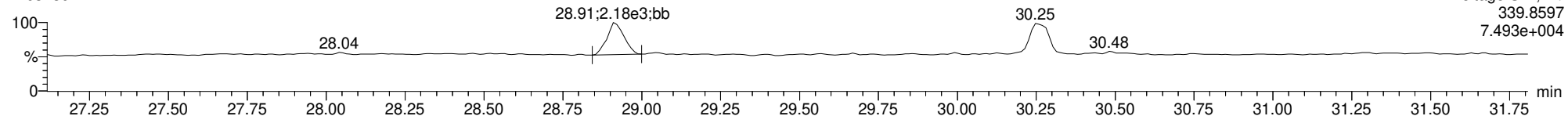
22032304



ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

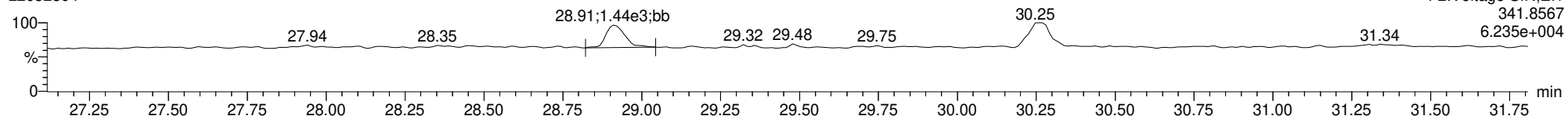
12378-PeCDF

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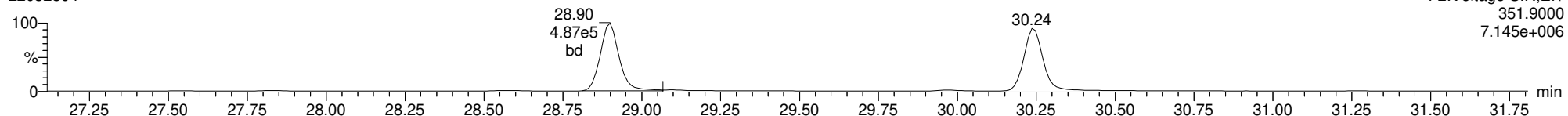
12378-PeCDF

22032304



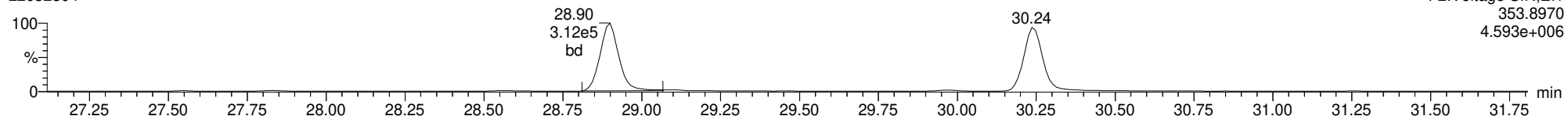
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22032304



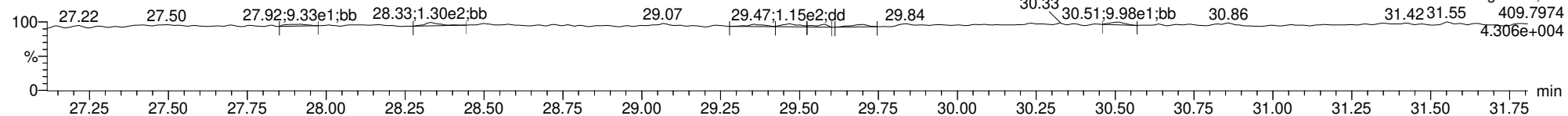
13C-12378-PeCDF

22032304



FUNCTION2 HPCDPE

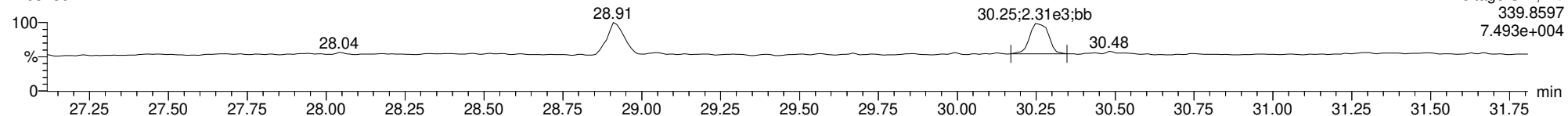
22032304



ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

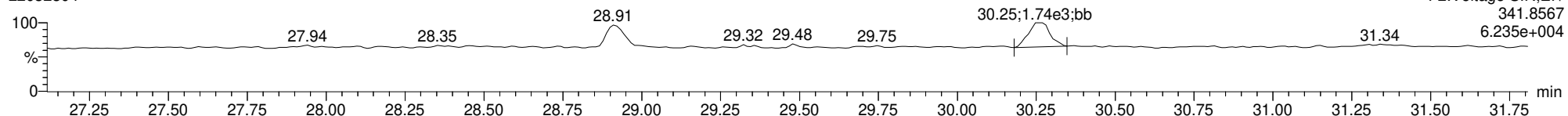
**23478-PeCDF**

22032304



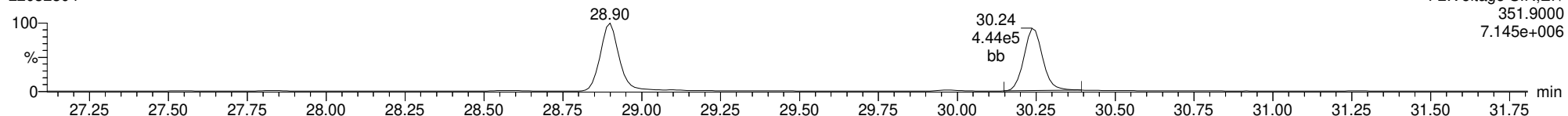
**23478-PeCDF**

22032304



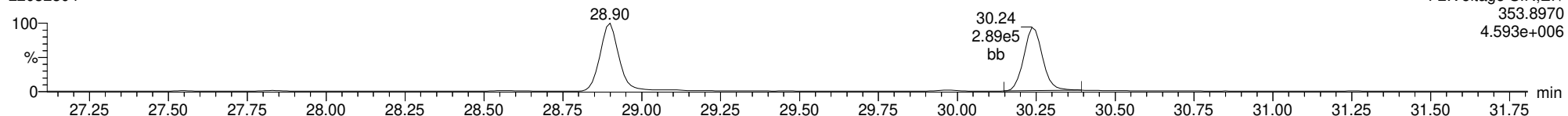
**13C-23478-PeCDF**

22032304



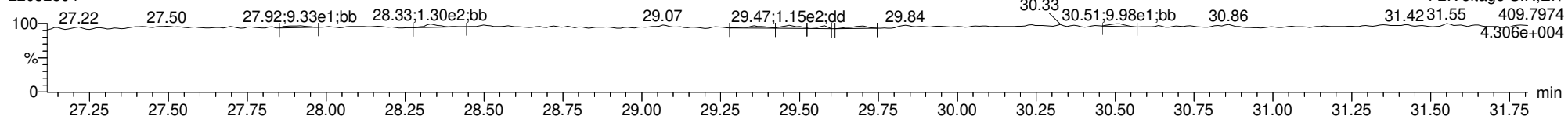
**13C-23478-PeCDF**

22032304



**FUNCTION2 HPCDPE**

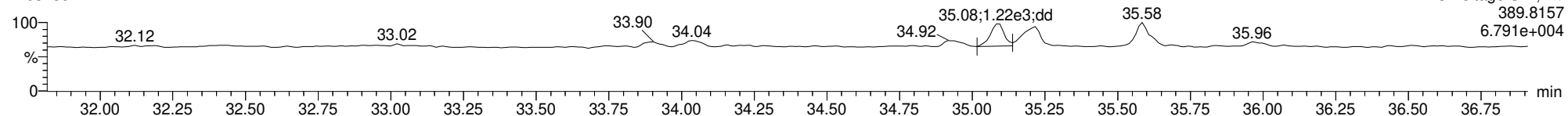
22032304



ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

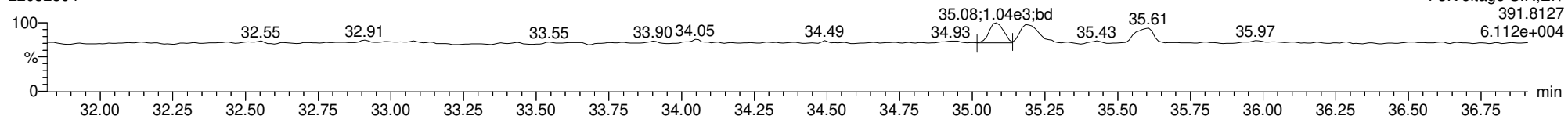
**123478-HxCDD**

22032304



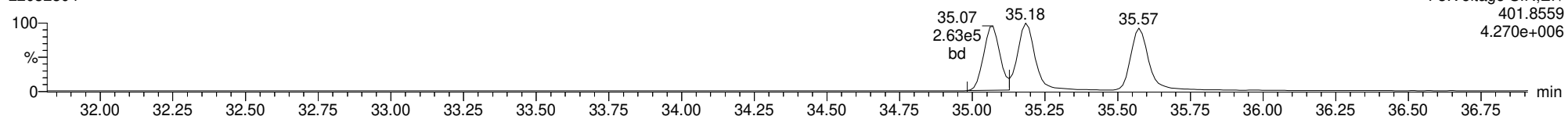
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22032304



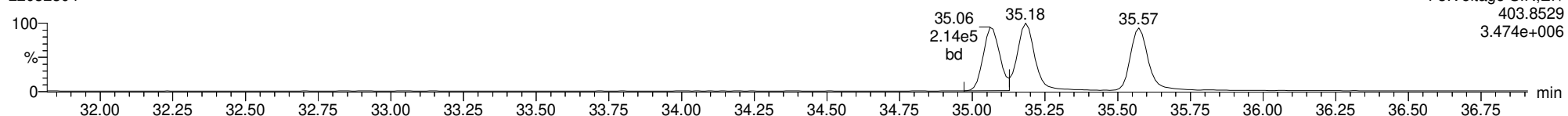
**13C-123478-HxCDD**

22032304



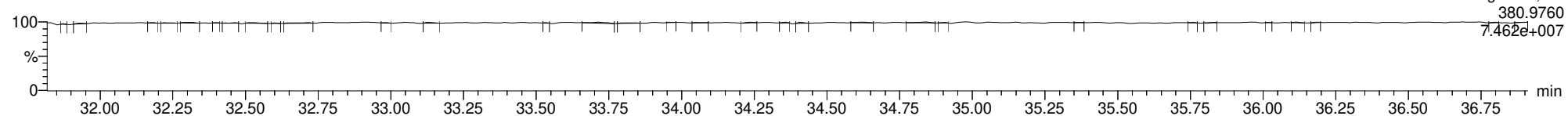
**13C-123478-HxCDD**

22032304



**FUNCTION3 PFK**

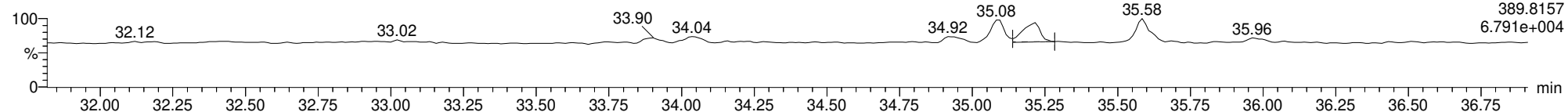
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

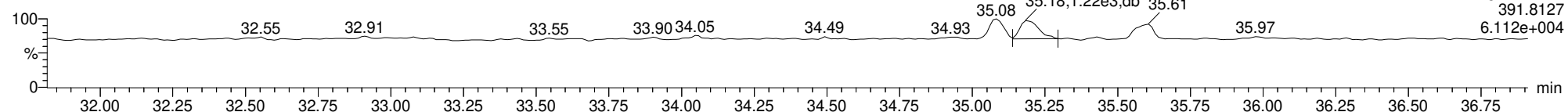
**123678-HxCDD**

22032304



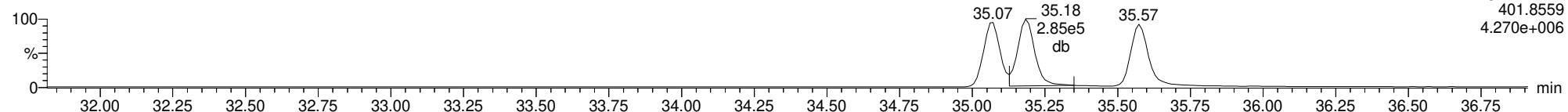
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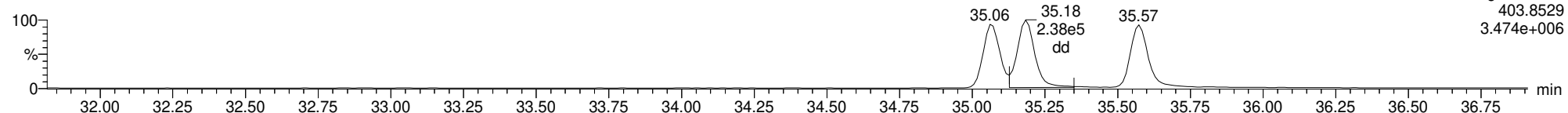
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22032304



**13C-123678-HxCDD**

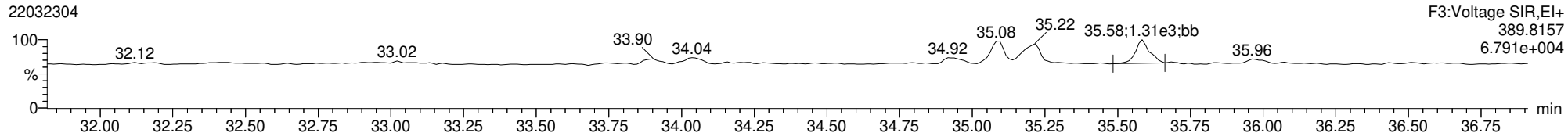
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

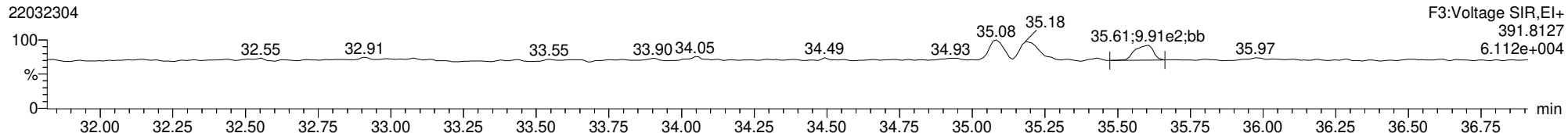
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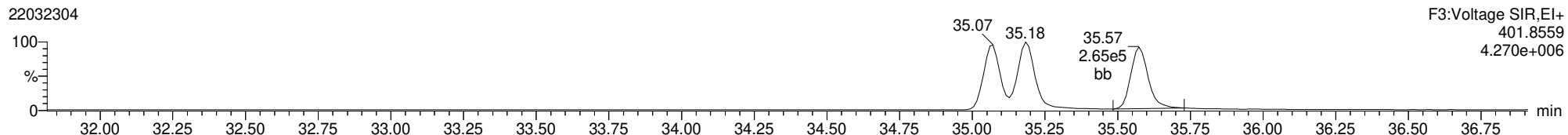
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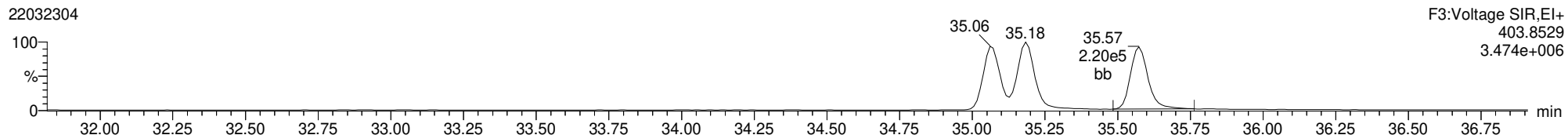
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13C-123789-HxCDD

22032304

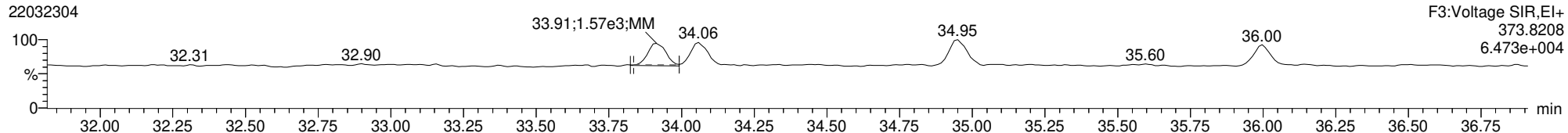




ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

123478-HxCDF

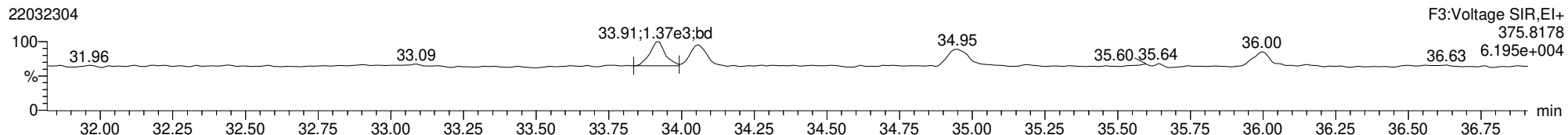
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F3:Voltage SIR,El+  
373.8208  
6.473e+004

123478-HxCDF

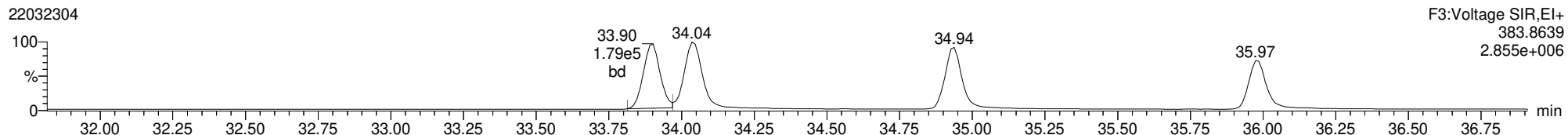
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F3:Voltage SIR,El+  
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6.195e+004

13C-123478-HxCDF

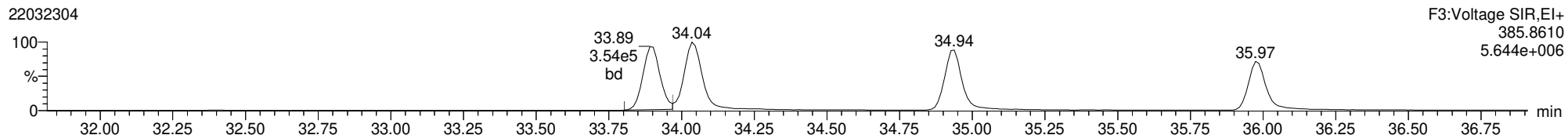
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F3:Voltage SIR,El+  
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2.855e+006

13C-123478-HxCDF

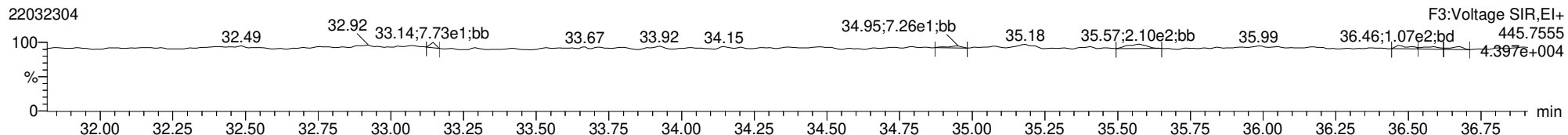
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F3:Voltage SIR,El+  
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5.644e+006

FUNCTION3 OCDPE

22032304

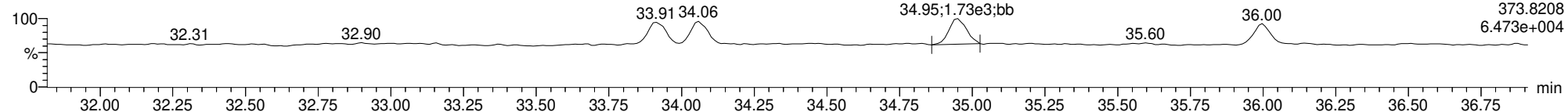


F3:Voltage SIR,El+  
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

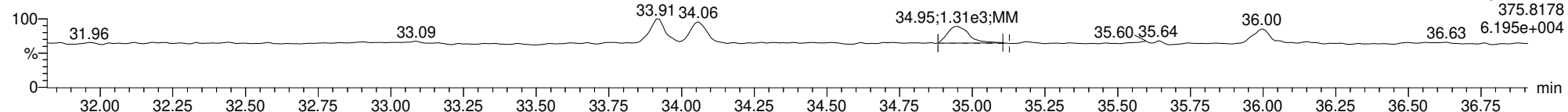
234678-HxCDF

22032304



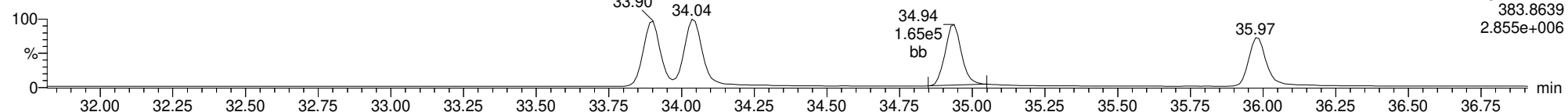
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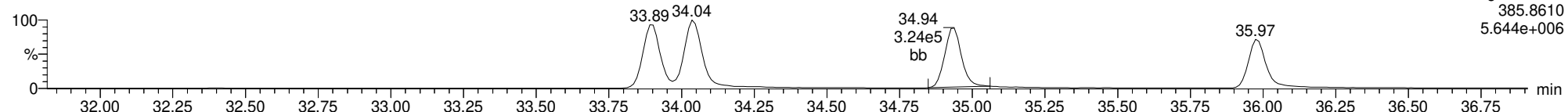
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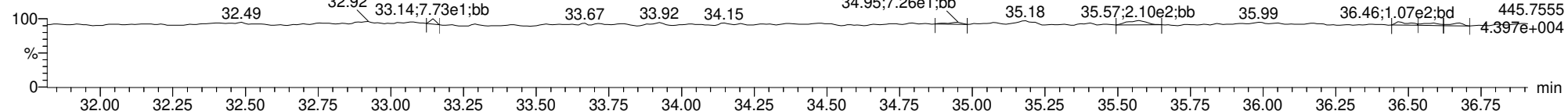
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FUNCTION3 OCDPE

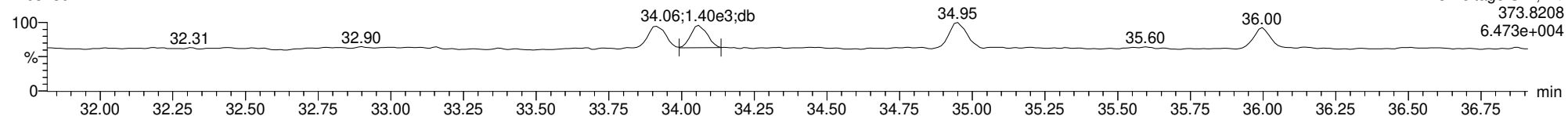
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

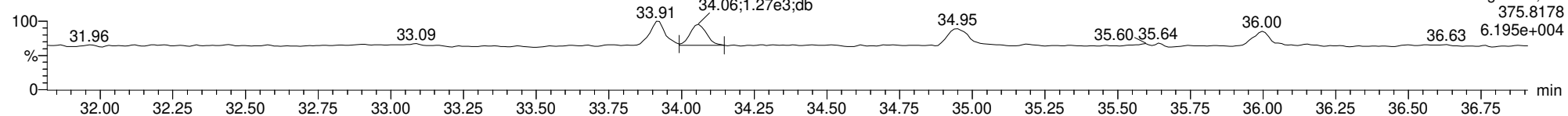
123678-HxCDF

22032304



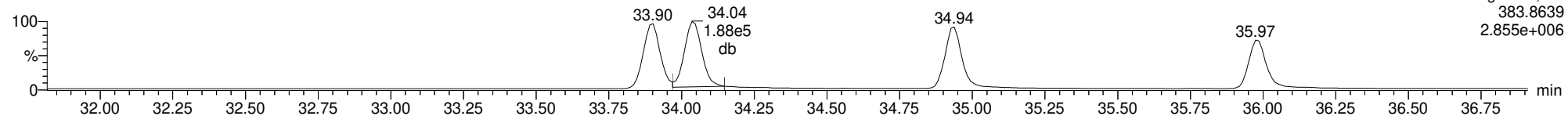
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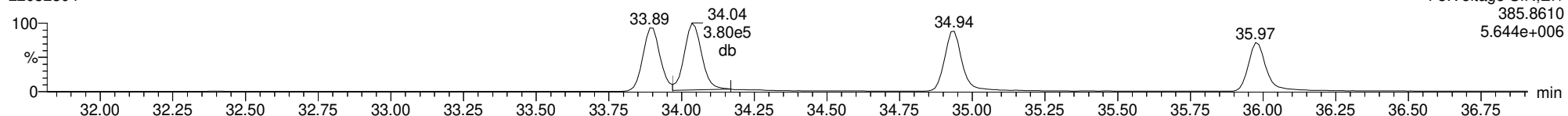
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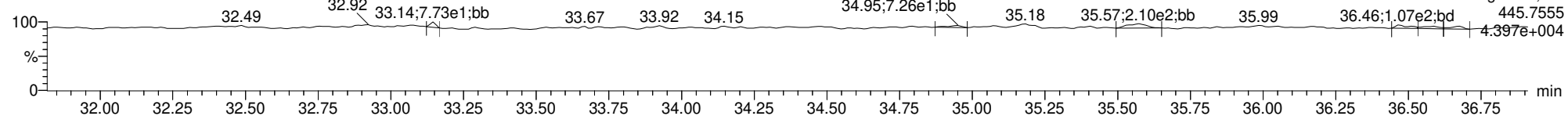
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22032304



FUNCTION3 OCDPE

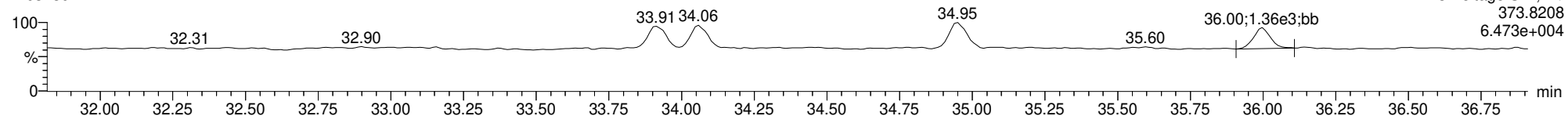
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

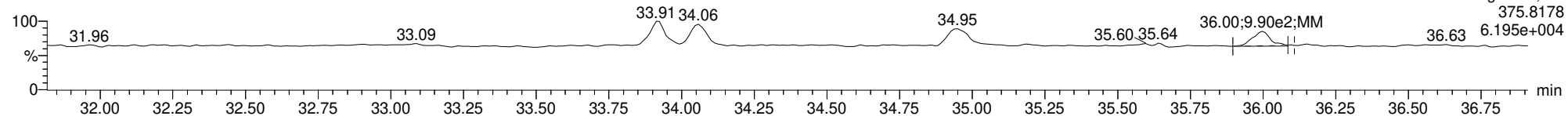
123789-HxCDF

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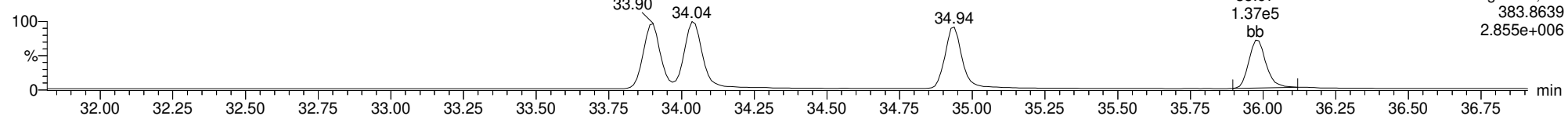
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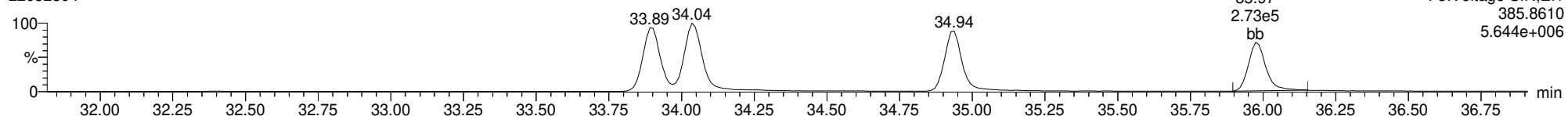
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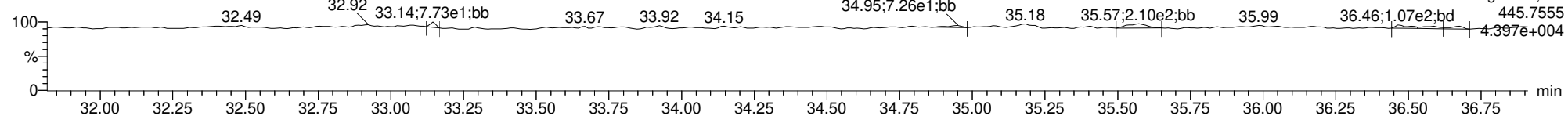
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FUNCTION3 OCDPE

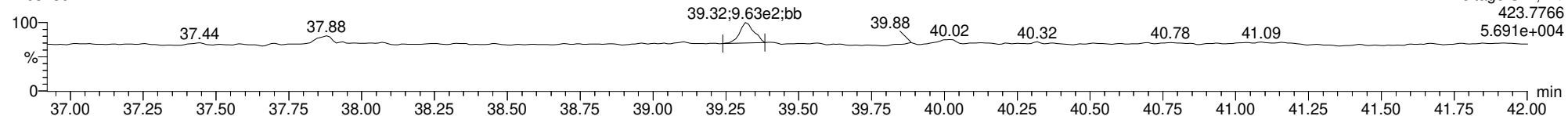
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

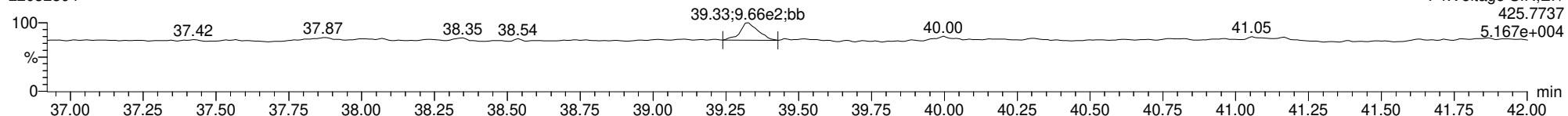
1234678-HpCDD

22032304



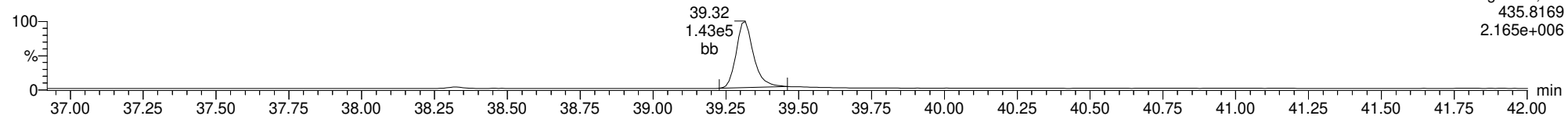
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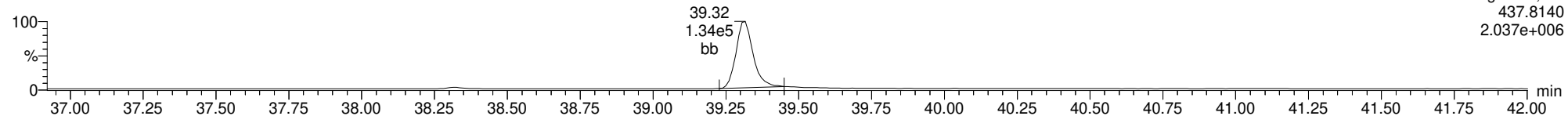
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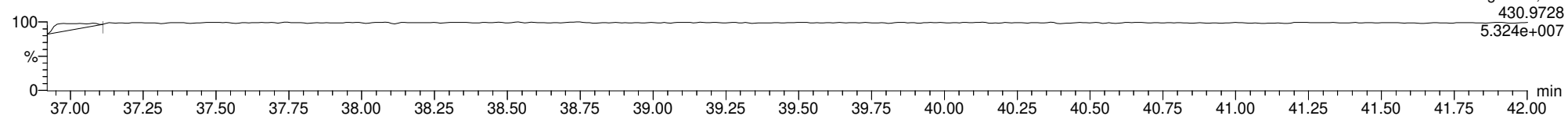
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FUNCTION4 PFK

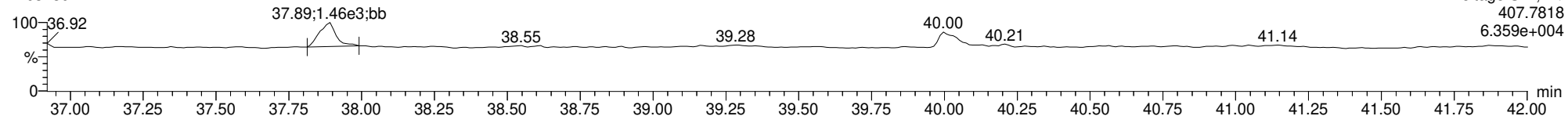
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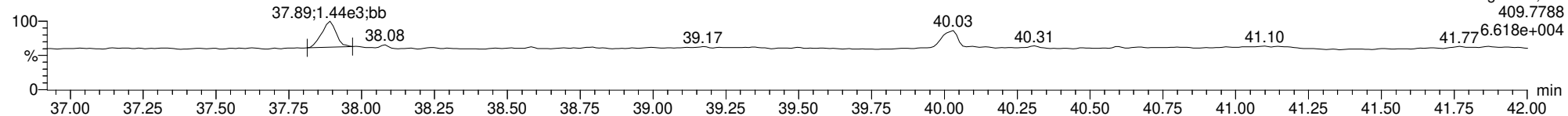
1234678-HpCDF

22032304



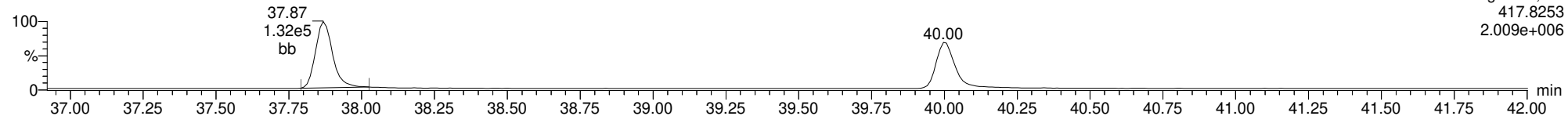
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22032304



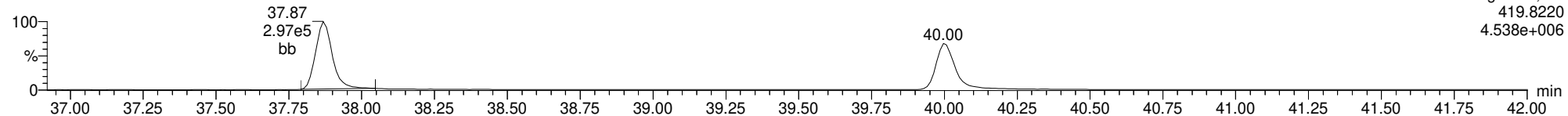
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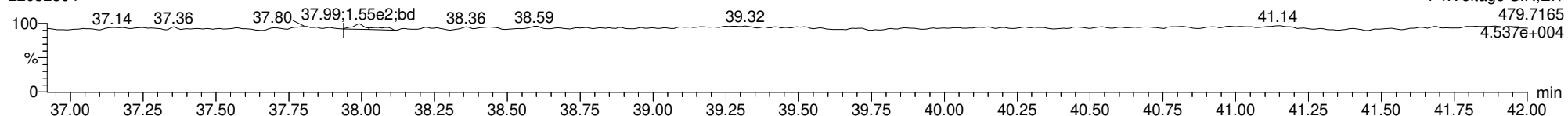
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22032304



FUNCTION4 NCDPE

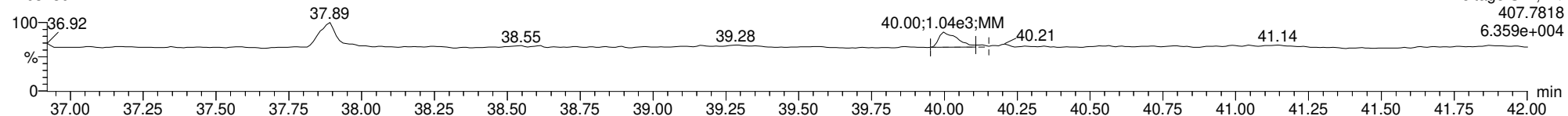
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

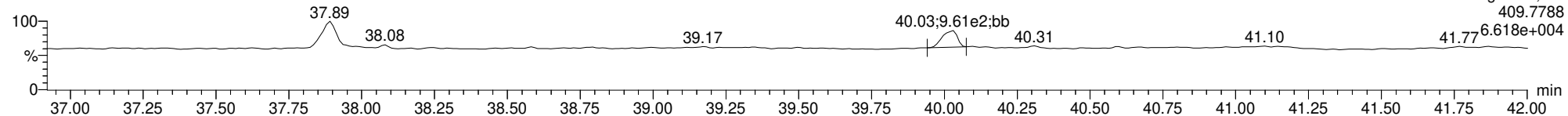
1234789-HpCDF

22032304



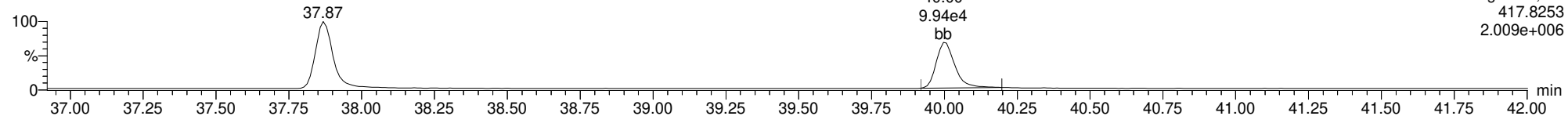
1234789-HpCDF

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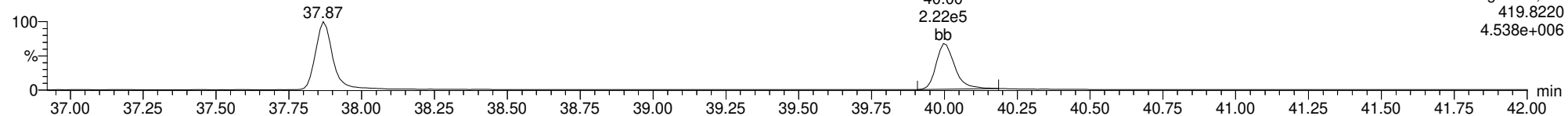
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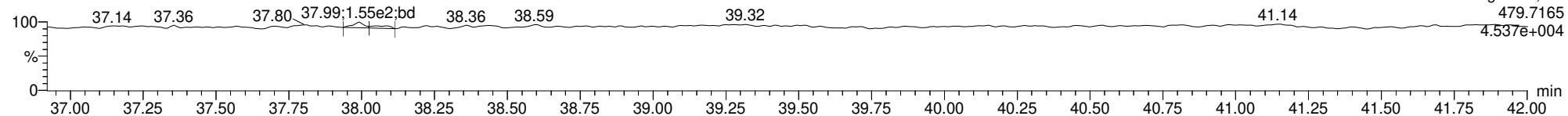
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22032304



FUNCTION4 NCDPE

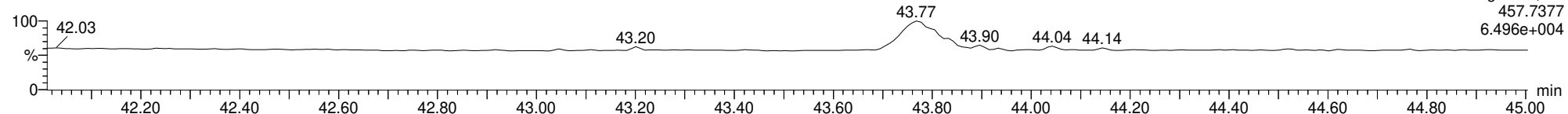
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

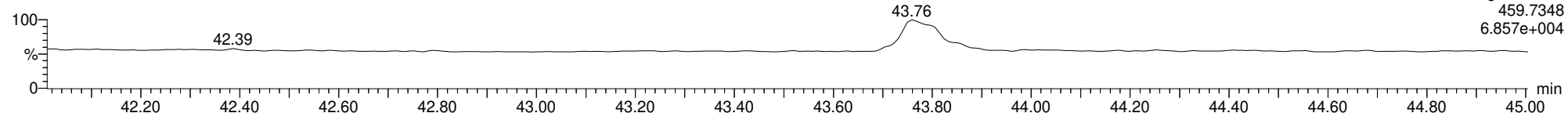
**OCDD**

22032304



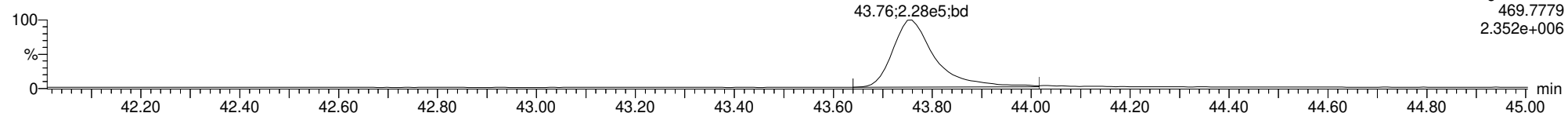
**OCDD**

22032304



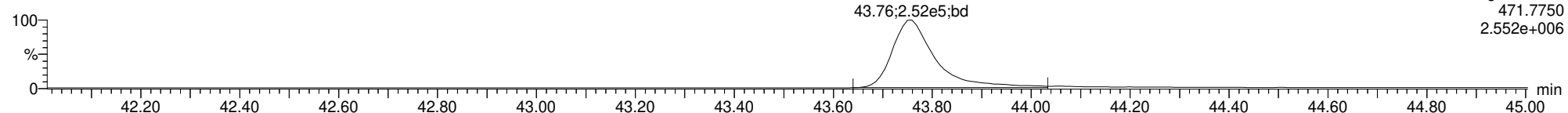
**13C-OCDD**

22032304



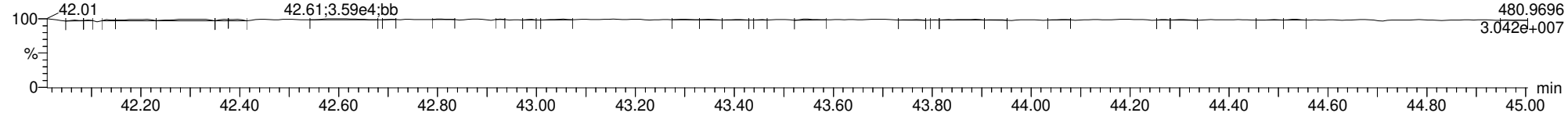
**13C-OCDD**

22032304



**FUNCTION5 PFK**

22032304

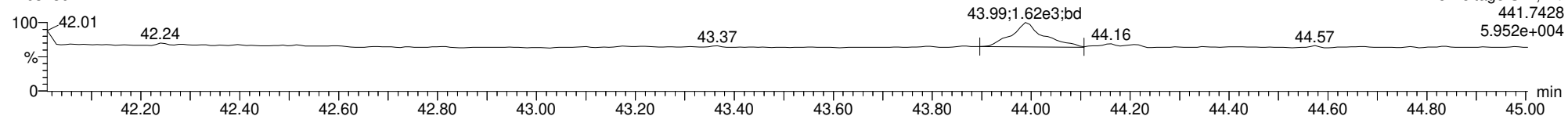




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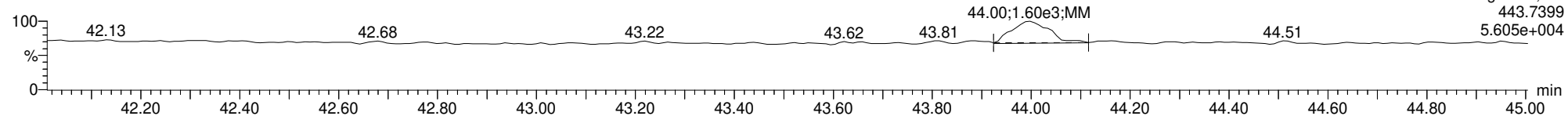
**OCDF**

22032304



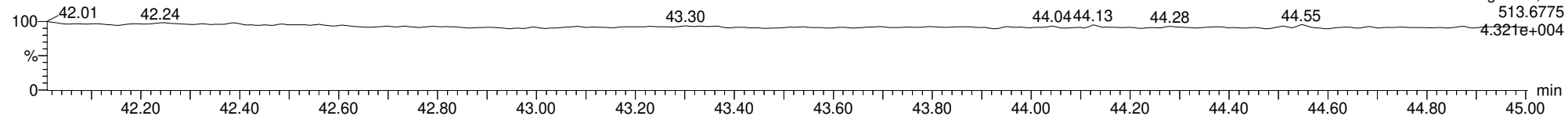
**OCDF**

22032304



**FUNCTION5 DCDPE**

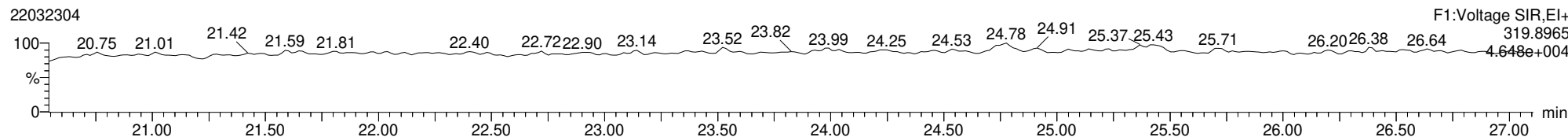
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ID: CSLCH, Name: 22032304, Date: 23-Mar-2022, Time: 11:36:29, Conditions: AUTOSPEC01, User: pk

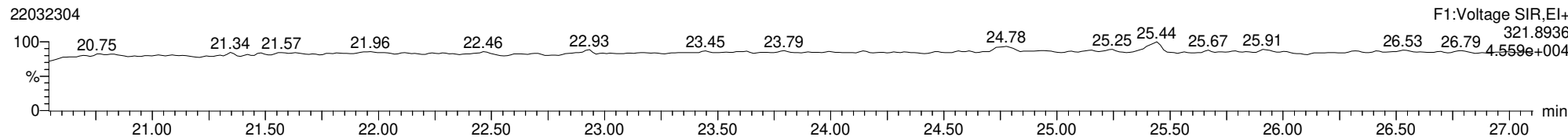
**Total-tetradoxins**

22032304



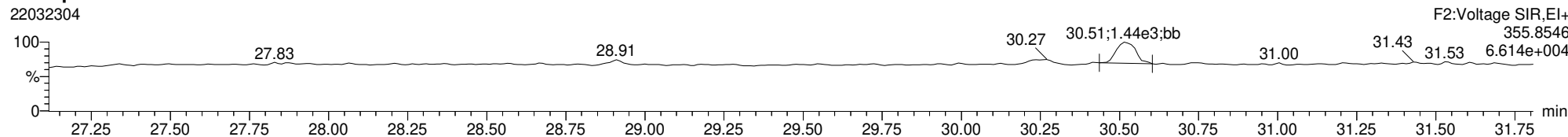
**Total-tetradoxins**

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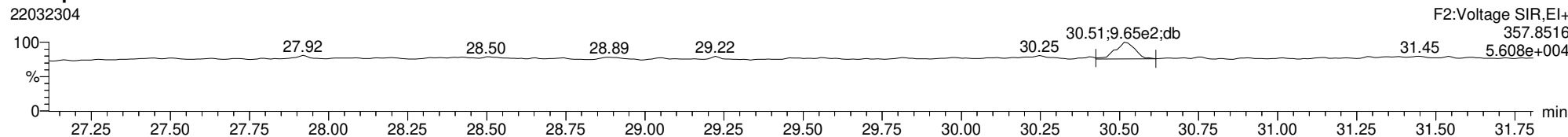
**Total-pentadoxins**

22032304



**Total-pentadoxins**

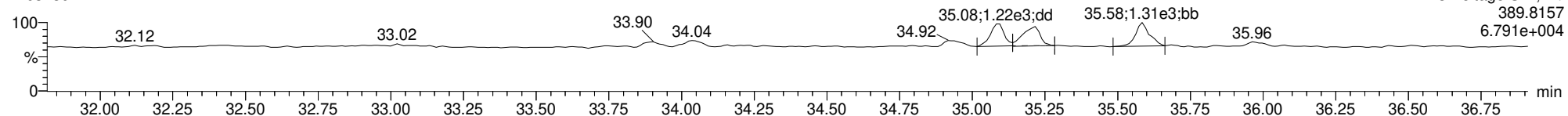
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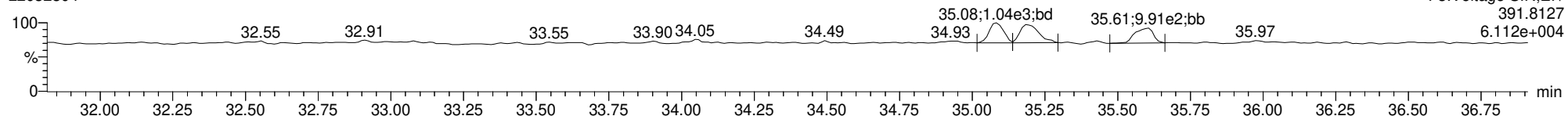
**Total-hexadioxins**

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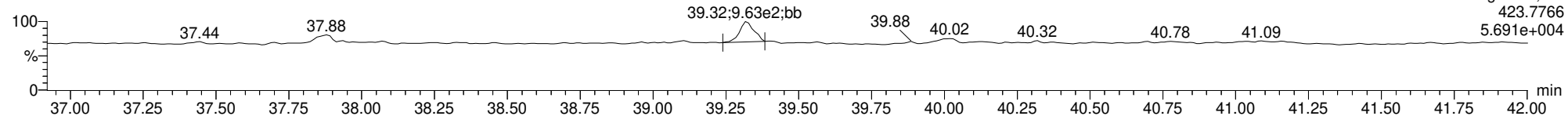
**Total-hexadioxins**

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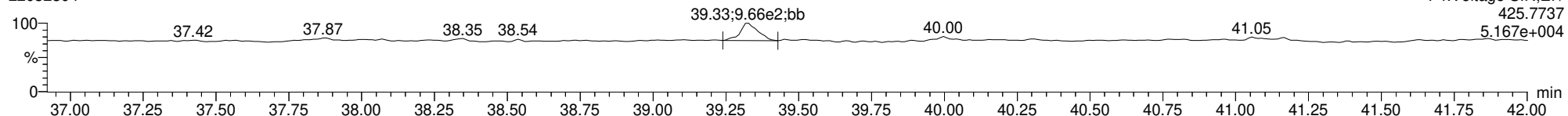
**Total-heptadioxins**

22032304



**Total-heptadioxins**

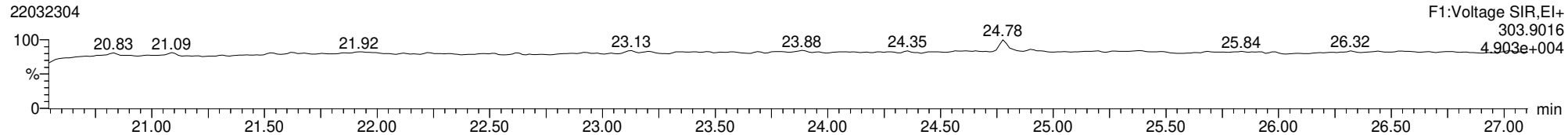
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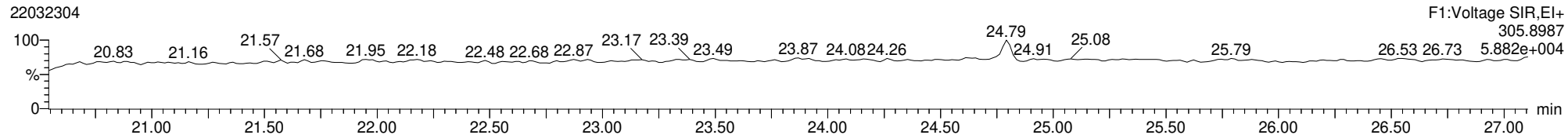
**Total-tetrafurans**

22032304



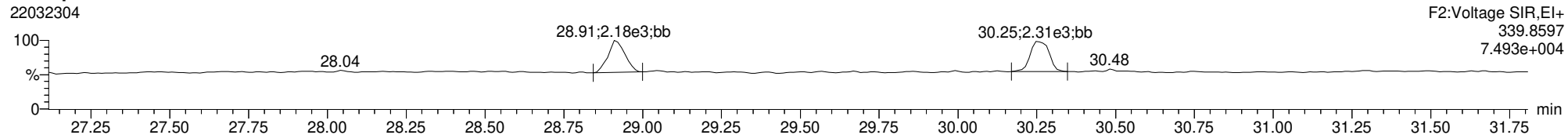
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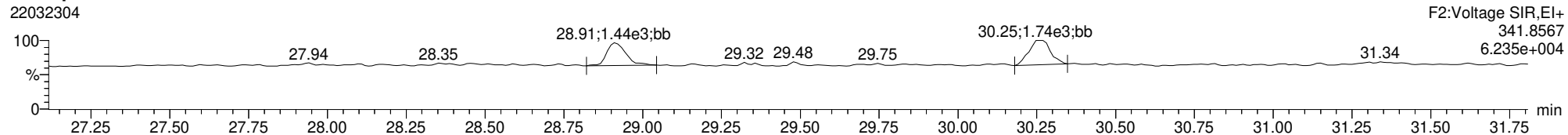
**Total-pentafurans**

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**Total-pentafurans**

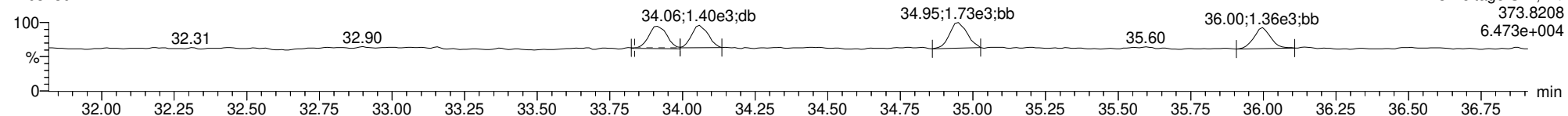
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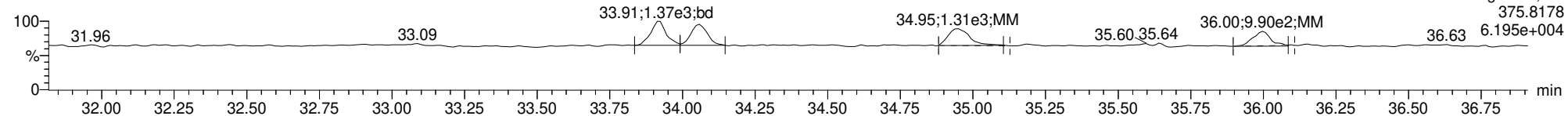
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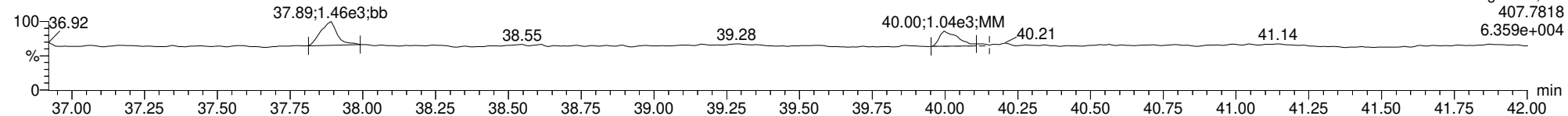
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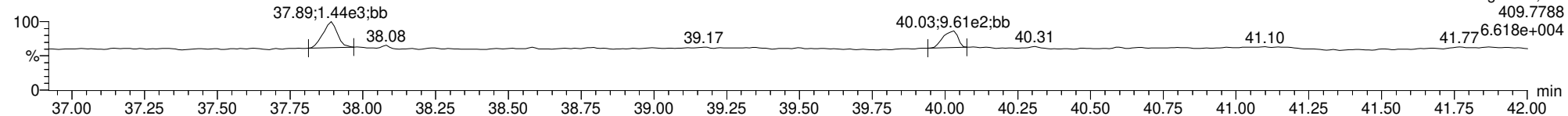
**Total-heptafurans**

22032304



**Total-heptafurans**

22032304



Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:40 Pacific Daylight Time

**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**  
**Calibration: 24 Mar 2022 08:56:14**

**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	24.822	1.001	1.687e3	2.499e3	0.985	0.675	0.770	768	1886	2.59e4	3.21e4	33.7	17.0	NO	bb	bb	0.489
12378-PeCDF	28.944	1.001	9.676e3	6.258e3	0.906	1.546	1.550	866	1317	1.46e5	9.93e4	169.1	75.4	NO	bd	bb	2.541
23478-PeCDF	30.292	1.001	9.844e3	6.597e3	1.008	1.492	1.550	866	1317	1.45e5	1.01e5	167.3	77.0	NO	bb	bd	2.485
123478-HxCDF	33.935	1.000	6.378e3	5.550e3	1.045	1.149	1.240	1003	734	9.45e4	7.62e4	94.2	103.7	NO	bd	bd	2.442
234678-HxCDF	34.971	1.000	6.361e3	5.429e3	1.101	1.172	1.240	1003	734	9.60e4	8.38e4	95.7	114.1	NO	bd	bb	2.495
123678-HxCDF	34.079	1.001	7.666e3	5.511e3	1.019	1.391	1.240	1003	734	1.04e5	7.56e4	104.0	103.0	NO	dd	db	2.619
123789-HxCDF	36.018	1.001	4.527e3	4.029e3	0.992	1.124	1.240	1003	734	7.12e4	6.20e4	71.0	84.5	NO	bb	bb	2.335
1234678-HpCDF	37.901	1.000	5.907e3	5.565e3	1.243	1.061	1.050	1045	1022	8.93e4	8.91e4	85.5	87.1	NO	bb	bb	2.385
1234789-HpCDF	40.040	1.001	4.065e3	3.902e3	1.192	1.042	1.050	1045	1022	5.32e4	5.66e4	50.9	55.4	NO	bd	bb	2.232
OCDF	43.996	1.005	6.276e3	6.533e3	1.303	0.961	0.890	1335	947	6.63e4	7.15e4	49.7	75.5	NO	bb	bb	5.039
2378-TCDD	25.457	1.001	1.467e3	1.912e3	1.168	0.767	0.770	1500	884	2.17e4	2.50e4	14.5	28.3	NO	bb	bb	0.538
12378-PeCDD	30.548	1.001	6.612e3	4.080e3	1.152	1.621	1.550	1014	645	9.78e4	5.60e4	96.4	86.8	NO	bb	bd	2.474
123478-HxCDD	35.104	1.001	5.413e3	4.302e3	0.934	1.258	1.240	797	756	8.81e4	6.83e4	110.6	90.3	NO	dd	bd	2.464
123678-HxCDD	35.216	1.000	5.208e3	4.759e3	0.950	1.094	1.240	797	756	7.71e4	6.62e4	96.8	87.5	NO	db	db	2.202
123789-HxCDD	35.606	1.011	4.946e3	4.046e3	0.873	1.222	1.240	797	756	7.34e4	6.23e4	92.1	82.4	NO	bd	bb	2.292
1234678-HpCDD	39.338	1.000	3.988e3	3.905e3	1.268	1.021	1.050	975	612	5.02e4	5.39e4	51.5	88.1	NO	bd	bb	2.561
OCDD	43.795	1.000	5.337e3	6.022e3	1.089	0.886	0.890	939	844	5.92e4	6.28e4	63.1	74.5	NO	bd	bb	5.345
13C-2378-TCDF	24.792	1.007	3.837e5	4.852e5	1.751	0.791	0.770	3251	2641	5.39e6	6.87e6	1658.7	2601.0	NO	bb	bb	95.118
13C-12378-PeCDF	28.921	1.174	4.199e5	2.726e5	1.442	1.540	1.550	2802	2238	6.08e6	3.89e6	2171.4	1738.0	NO	bb	bb	92.099
13C-23478-PeCDF	30.269	1.229	3.996e5	2.572e5	1.366	1.554	1.550	2802	2238	5.77e6	3.70e6	2059.3	1651.0	NO	bb	bb	92.197
13C-123478-HxCDF	33.924	0.953	1.581e5	3.091e5	1.095	0.511	0.510	1801	2868	2.31e6	4.57e6	1281.4	1592.3	NO	bd	bd	99.489
13C-123678-HxCDF	34.057	0.957	1.664e5	3.271e5	1.168	0.509	0.510	1801	2868	2.34e6	4.62e6	1301.8	1610.9	NO	db	db	98.547
13C-234678-HxCDF	34.959	0.982	1.444e5	2.849e5	1.023	0.507	0.510	1801	2868	2.16e6	4.33e6	1201.8	1508.7	NO	bb	bb	97.856
13C-123789-HxCDF	35.996	1.011	1.246e5	2.447e5	0.879	0.509	0.510	1801	2868	1.81e6	3.55e6	1006.0	1236.6	NO	bb	bb	97.980
13C-1234678-HpCDF	37.890	1.064	1.231e5	2.638e5	0.925	0.467	0.440	1671	2459	1.76e6	3.88e6	1052.3	1576.3	NO	bd	bb	97.480
13C-1234789-HpCDF	40.018	1.124	9.127e4	2.081e5	0.715	0.439	0.440	1671	2459	1.21e6	2.66e6	724.9	1082.2	NO	bd	bd	97.631
13C-1234-TCDD	24.626	0.000	2.283e5	2.933e5	1.000	0.778	0.770	2224	1752	3.37e6	4.43e6	1513.7	2526.6	NO	bb	bb	100.000
13C-2378-TCDD	25.442	1.033	2.345e5	3.038e5	1.081	0.772	0.770	2224	1752	3.39e6	4.36e6	1524.4	2487.8	NO	bb	bb	95.430
13C-12378-PeCDD	30.525	1.240	2.314e5	1.439e5	0.776	1.608	1.550	1745	1284	3.39e6	2.12e6	1940.8	1648.1	NO	bb	bb	92.674
13C-123478-HxCDD	35.082	0.986	2.359e5	1.863e5	0.975	1.266	1.240	1626	1714	3.55e6	2.81e6	2184.2	1639.7	NO	bd	bd	100.973
13C-123678-HxCDD	35.205	0.989	2.638e5	2.125e5	1.067	1.242	1.240	1626	1714	3.79e6	3.06e6	2329.5	1787.3	NO	db	db	104.121
13C-1234678-HpCDD	39.327	1.105	1.240e5	1.191e5	0.582	1.041	1.050	1483	1881	1.75e6	1.67e6	1178.0	889.6	NO	bb	bb	97.440
13C-OCDD	43.777	1.230	1.847e5	2.055e5	0.509	0.899	0.890	1986	2053	1.91e6	2.12e6	963.7	1033.9	NO	bb	bb	178.889
13C-123789-HxCDD	35.595	0.000	2.357e5	1.932e5	1.000	1.220	1.240	1626	1714	3.53e6	2.88e6	2172.9	1680.9	NO	bb	bb	100.000
37CL-2378-TCDD	25.457	1.034	3.058e3		1.120			1483		4.46e4		30.1			bb		0.524

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
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**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.300		0.770	768	1886								
1289-TCDF					0.931		0.770	768	1886								
13468-PECDF					1.308		1.550	665	922								
12389-PECDF					0.860		1.550	866	1317								
123468-HXCDF					1.156		1.240	1003	734								
1368-TCDD					1.151		0.770	1500	884								
1289-TCDD					0.950		0.770	1500	884								
12479-PECDD					2.164		1.550	1014	645								
12389-PECDD					1.371		1.550	1014	645								
124679-HXCDD					1.153		1.240	797	756								
1234679-HPCDD					1.473		1.050	975	612								
Total-tetrafurans			1.687e3		1.072			768		2.59e4							0.489
Total-penta1			0.000e0					665		0.00e0							
Total-pentafurans			1.952e4		0.924			866		2.91e5							5.025
Total-hexafurans			2.493e4		1.063			1003		3.66e5							9.891
Total-heptafurans			9.971e3		1.218			1045		1.43e5							4.617
Total-Furans			6.239e4		1.090			768		8.92e5							25.062
Total-tetradoxins			1.467e3		1.090			1500		2.17e4							0.538
Total-pentadoxins			6.612e3		1.562			1014		9.78e4							2.474
Total-hexadoxins			1.557e4		0.978			797		2.39e5							6.958
Total-heptadoxins			3.988e3		1.371			975		5.02e4							2.561
Total-Dioxins			3.297e4		1.207			1500		4.68e5							17.875
Total-TEQ			9.536e4					1500		1.36e6							42.937
FUNCTION1 PFK			2.733e5					583970		5.99e6							
FUNCTION2 PFK			7.453e5					625891		2.07e7							0.000
FUNCTION3 PFK			8.531e5					535920		2.64e7							0.000
FUNCTION4 PFK			1.937e5					456358		3.38e6							
FUNCTION5 PFK			8.174e4					223125		2.49e6							
FUNCTION1 HXCDPE			5.835e2					823		1.07e4							0.000
FUNCTION1 HPCDPE			8.113e2					963		1.55e4							0.000
FUNCTION2 HPCDPE			9.678e2					908		1.46e4							0.000
FUNCTION3 OCDPE			2.580e2					607		4.81e3							0.000
FUNCTION4 NCDPE			9.742e1					934		2.36e3							0.000
FUNCTION5 DCDPE			8.334e1					601		2.51e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
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**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**

**Calibration: 24 Mar 2022 08:56:14**

**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.82	1.687e3	2.499e3	0.985	0.68	0.77	33.7	YES	NO	bb	bb	0.489

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	28.94	9.676e3	6.258e3	0.906	1.55	1.55	169.1	YES	NO	bd	bb	2.541
2	23478-PeCDF	30.29	9.844e3	6.597e3	1.008	1.49	1.55	167.3	YES	NO	bb	bd	2.485

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	34.08	7.666e3	5.511e3	1.019	1.39	1.24	104.0	YES	NO	dd	db	2.619
2	123478-HxCDF	33.93	6.378e3	5.550e3	1.045	1.15	1.24	94.2	YES	NO	bd	bd	2.442
3	123789-HxCDF	36.02	4.527e3	4.029e3	0.992	1.12	1.24	71.0	YES	NO	bb	bb	2.335
4	234678-HxCDF	34.97	6.361e3	5.429e3	1.101	1.17	1.24	95.7	YES	NO	bd	bb	2.495

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.04	4.065e3	3.902e3	1.192	1.04	1.05	50.9	YES	NO	bd	bb	2.232
2	1234678-HpCDF	37.90	5.907e3	5.565e3	1.243	1.06	1.05	85.5	YES	NO	bb	bb	2.385



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.82	1.687e3	2.499e3	0.985	0.68	0.77	33.7	YES	NO	bb	bb	0.489
2	12378-PeCDF	28.94	9.676e3	6.258e3	0.906	1.55	1.55	169.1	YES	NO	bd	bb	2.541
3	123678-HxCDF	34.08	7.666e3	5.511e3	1.019	1.39	1.24	104.0	YES	NO	dd	db	2.619
4	123478-HxCDF	33.93	6.378e3	5.550e3	1.045	1.15	1.24	94.2	YES	NO	bd	bd	2.442
5	23478-PeCDF	30.29	9.844e3	6.597e3	1.008	1.49	1.55	167.3	YES	NO	bb	bd	2.485
6	123789-HxCDF	36.02	4.527e3	4.029e3	0.992	1.12	1.24	71.0	YES	NO	bb	bb	2.335
7	234678-HxCDF	34.97	6.361e3	5.429e3	1.101	1.17	1.24	95.7	YES	NO	bd	bb	2.495
8	1234789-HpCDF	40.04	4.065e3	3.902e3	1.192	1.04	1.05	50.9	YES	NO	bd	bb	2.232
9	1234678-HpCDF	37.90	5.907e3	5.565e3	1.243	1.06	1.05	85.5	YES	NO	bb	bb	2.385
10	OCDF	44.00	6.276e3	6.533e3	1.303	0.96	0.89	49.7	YES	NO	bb	bb	5.039

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	25.46	1.467e3	1.912e3	1.168	0.77	0.77	14.5	YES	NO	bb	bb	0.538

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	30.55	6.612e3	4.080e3	1.152	1.62	1.55	96.4	YES	NO	bb	bd	2.474

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	35.22	5.208e3	4.759e3	0.950	1.09	1.24	96.8	YES	NO	db	db	2.202
2	123478-HxCDD	35.10	5.413e3	4.302e3	0.934	1.26	1.24	110.6	YES	NO	dd	bd	2.464
3	123789-HxCDD	35.61	4.946e3	4.046e3	0.873	1.22	1.24	92.1	YES	NO	bd	bb	2.292

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.34	3.988e3	3.905e3	1.268	1.02	1.05	51.5	YES	NO	bd	bb	2.561

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

## Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	25.46	1.467e3	1.912e3	1.168	0.77	0.77	14.5	YES	NO	bb	bb	0.538
2	123678-HxCDD	35.22	5.208e3	4.759e3	0.950	1.09	1.24	96.8	YES	NO	db	db	2.202
3	123478-HxCDD	35.10	5.413e3	4.302e3	0.934	1.26	1.24	110.6	YES	NO	dd	bd	2.464
4	12378-PeCDD	30.55	6.612e3	4.080e3	1.152	1.62	1.55	96.4	YES	NO	bb	bd	2.474
5	123789-HxCDD	35.61	4.946e3	4.046e3	0.873	1.22	1.24	92.1	YES	NO	bd	bb	2.292
6	OCDD	43.79	5.337e3	6.022e3	1.089	0.89	0.89	63.1	YES	NO	bd	bb	5.345
7	1234678-HpCDD	39.34	3.988e3	3.905e3	1.268	1.02	1.05	51.5	YES	NO	bd	bb	2.561

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.82	1.687e3	2.499e3	0.985	0.68	0.77	33.7	YES	NO	bb	bb	0.489
2	12378-PeCDF	28.94	9.676e3	6.258e3	0.906	1.55	1.55	169.1	YES	NO	bd	bb	2.541
3	123678-HxCDF	34.08	7.666e3	5.511e3	1.019	1.39	1.24	104.0	YES	NO	dd	db	2.619
4	123478-HxCDF	33.93	6.378e3	5.550e3	1.045	1.15	1.24	94.2	YES	NO	bd	bd	2.442
5	23478-PeCDF	30.29	9.844e3	6.597e3	1.008	1.49	1.55	167.3	YES	NO	bb	bd	2.485
6	123789-HxCDF	36.02	4.527e3	4.029e3	0.992	1.12	1.24	71.0	YES	NO	bb	bb	2.335
7	234678-HxCDF	34.97	6.361e3	5.429e3	1.101	1.17	1.24	95.7	YES	NO	bd	bb	2.495
8	1234789-HpCDF	40.04	4.065e3	3.902e3	1.192	1.04	1.05	50.9	YES	NO	bd	bb	2.232
9	1234678-HpCDF	37.90	5.907e3	5.565e3	1.243	1.06	1.05	85.5	YES	NO	bb	bb	2.385
10	OCDF	44.00	6.276e3	6.533e3	1.303	0.96	0.89	49.7	YES	NO	bb	bb	5.039
11	2378-TCDD	25.46	1.467e3	1.912e3	1.168	0.77	0.77	14.5	YES	NO	bb	bb	0.538
12	123678-HxCDD	35.22	5.208e3	4.759e3	0.950	1.09	1.24	96.8	YES	NO	db	db	2.202
13	123478-HxCDD	35.10	5.413e3	4.302e3	0.934	1.26	1.24	110.6	YES	NO	dd	bd	2.464
14	12378-PeCDD	30.55	6.612e3	4.080e3	1.152	1.62	1.55	96.4	YES	NO	bb	bd	2.474
15	123789-HxCDD	35.61	4.946e3	4.046e3	0.873	1.22	1.24	92.1	YES	NO	bd	bb	2.292
16	OCDD	43.79	5.337e3	6.022e3	1.089	0.89	0.89	63.1	YES	NO	bd	bb	5.345
17	1234678-HpCDD	39.34	3.988e3	3.905e3	1.268	1.02	1.05	51.5	YES	NO	bd	bb	2.561

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.18	3.095e4					1.6	NO		bb		
2	FUNCTION1 PFK	20.85	8.435e4					2.6	NO		db		
3	FUNCTION1 PFK	20.77	4.661e4					2.0	NO		bd		
4	FUNCTION1 PFK	20.71	2.777e4					1.9	NO		bb		
5	FUNCTION1 PFK	23.88	8.361e4					2.1	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.39	2.794e4					1.3	NO		db		0.000
2	FUNCTION2 PFK	29.34	3.637e4					2.1	NO		bd		0.000
3	FUNCTION2 PFK	29.18	1.546e4					1.0	NO		bb		0.000
4	FUNCTION2 PFK	28.94	1.277e4					0.9	NO		bb		0.000
5	FUNCTION2 PFK	28.75	8.087e3					0.7	NO		bb		0.000
6	FUNCTION2 PFK	28.30	1.226e4					0.6	NO		bb		0.000
7	FUNCTION2 PFK	28.01	2.340e4					0.8	NO		bb		0.000
8	FUNCTION2 PFK	27.76	8.339e3					0.5	NO		bb		0.000
9	FUNCTION2 PFK	27.72	1.287e4					1.1	NO		bb		0.000
10	FUNCTION2 PFK	27.51	1.495e4					0.9	NO		db		0.000
11	FUNCTION2 PFK	27.46	2.750e4					1.4	NO		dd		0.000
12	FUNCTION2 PFK	27.37	8.967e4					2.6	NO		dd		0.000
13	FUNCTION2 PFK	27.34	2.363e4					1.5	NO		bd		0.000
14	FUNCTION2 PFK	27.21	1.456e5					2.8	NO		bb		0.000
15	FUNCTION2 PFK	31.74	3.039e4					1.1	NO		bd		0.000
16	FUNCTION2 PFK	31.56	3.179e4					1.2	NO		bb		0.000
17	FUNCTION2 PFK	31.20	2.941e4					1.1	NO		db		0.000
18	FUNCTION2 PFK	31.14	1.004e4					0.7	NO		bd		0.000
19	FUNCTION2 PFK	30.96	8.485e3					0.8	NO		bb		0.000
20	FUNCTION2 PFK	30.86	3.107e4					1.4	NO		bb		0.000
21	FUNCTION2 PFK	30.82	5.783e3					0.5	NO		bb		0.000
22	FUNCTION2 PFK	30.53	3.229e4					1.0	NO		bb		0.000
23	FUNCTION2 PFK	30.48	1.211e4					0.8	NO		bb		0.000
24	FUNCTION2 PFK	30.35	8.143e3					0.7	NO		db		0.000
25	FUNCTION2 PFK	30.30	1.881e4					1.3	NO		bd		0.000
26	FUNCTION2 PFK	30.20	6.790e3					0.6	NO		bb		0.000
27	FUNCTION2 PFK	30.06	1.453e4					0.9	NO		bb		0.000
28	FUNCTION2 PFK	29.85	3.502e3					0.5	NO		bb		0.000
29	FUNCTION2 PFK	29.62	2.355e4					0.9	NO		bb		0.000
30	FUNCTION2 PFK	29.53	1.057e4					0.7	NO		bb		0.000
31	FUNCTION2 PFK	31.77	9.218e3					0.7	NO		db		0.000

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:40 Pacific Daylight Time

ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

## PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	32.89	1.721e4					1.2	NO		db		0.000
2	FUNCTION3 PFK	32.84	1.207e4					0.9	NO		bd		0.000
3	FUNCTION3 PFK	32.71	8.362e3					0.7	NO		bb		0.000
4	FUNCTION3 PFK	32.62	4.082e4					1.6	NO		bb		0.000
5	FUNCTION3 PFK	32.48	2.703e4					1.6	NO		bb		0.000
6	FUNCTION3 PFK	32.42	2.996e3					0.5	NO		bb		0.000
7	FUNCTION3 PFK	32.38	4.564e3					0.8	NO		bb		0.000
8	FUNCTION3 PFK	32.32	1.328e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	32.20	7.683e3					0.6	NO		bb		0.000
10	FUNCTION3 PFK	32.13	1.915e4					1.4	NO		db		0.000
11	FUNCTION3 PFK	32.03	4.900e4					1.7	NO		bd		0.000
12	FUNCTION3 PFK	31.95	1.807e4					1.2	NO		bb		0.000
13	FUNCTION3 PFK	31.90	4.096e3					0.7	NO		bb		0.000
14	FUNCTION3 PFK	31.85	3.452e3					0.6	NO		bb		0.000
15	FUNCTION3 PFK	34.36	1.507e4					1.1	NO		bb		0.000
16	FUNCTION3 PFK	34.28	2.753e4					1.4	NO		db		0.000
17	FUNCTION3 PFK	34.24	2.564e4					1.3	NO		bd		0.000
18	FUNCTION3 PFK	34.11	1.448e4					0.7	NO		db		0.000
19	FUNCTION3 PFK	34.02	2.928e4					1.4	NO		dd		0.000
20	FUNCTION3 PFK	33.99	1.038e4					0.9	NO		bd		0.000
21	FUNCTION3 PFK	33.89	5.682e4					1.7	NO		db		0.000
22	FUNCTION3 PFK	33.80	4.423e4					1.8	NO		dd		0.000
23	FUNCTION3 PFK	33.73	1.011e4					0.7	NO		dd		0.000
24	FUNCTION3 PFK	33.69	3.903e4					1.2	NO		bd		0.000
25	FUNCTION3 PFK	33.58	1.250e4					0.9	NO		db		0.000
26	FUNCTION3 PFK	33.53	1.988e4					1.3	NO		bd		0.000
27	FUNCTION3 PFK	33.48	5.850e3					0.6	NO		bb		0.000
28	FUNCTION3 PFK	33.24	2.200e3					0.4	NO		bb		0.000
29	FUNCTION3 PFK	33.02	1.080e4					0.8	NO		db		0.000
30	FUNCTION3 PFK	32.95	3.377e4					1.3	NO		bd		0.000
31	FUNCTION3 PFK	35.86	1.252e4					1.1	NO		db		0.000
32	FUNCTION3 PFK	35.84	1.031e4					0.7	NO		bd		0.000
33	FUNCTION3 PFK	35.76	3.541e4					1.8	NO		db		0.000
34	FUNCTION3 PFK	35.72	3.575e4					1.8	NO		bd		0.000
35	FUNCTION3 PFK	35.52	2.580e3					0.4	NO		bb		0.000
36	FUNCTION3 PFK	35.44	1.169e4					0.9	NO		bb		0.000
37	FUNCTION3 PFK	35.34	2.201e4					0.9	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323\CIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:40 Pacific Daylight Time

**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	35.29	1.895e3					0.3	NO		bb		0.000
39	FUNCTION3 PFK	35.17	1.747e4					1.0	NO		bb		0.000
40	FUNCTION3 PFK	35.07	1.810e3					0.3	NO		bb		0.000
41	FUNCTION3 PFK	35.03	3.506e4					1.5	NO		bb		0.000
42	FUNCTION3 PFK	34.92	8.054e3					0.7	NO		bb		0.000
43	FUNCTION3 PFK	34.81	3.781e3					0.4	NO		bb		0.000
44	FUNCTION3 PFK	34.78	7.494e3					0.5	NO		bb		0.000
45	FUNCTION3 PFK	34.60	1.419e4					0.8	NO		db		0.000
46	FUNCTION3 PFK	34.57	1.027e4					0.9	NO		bd		0.000
47	FUNCTION3 PFK	36.64	6.044e3					0.5	NO		bb		0.000
48	FUNCTION3 PFK	36.59	2.644e3					0.4	NO		bb		0.000
49	FUNCTION3 PFK	36.44	2.239e3					0.4	NO		bb		0.000
50	FUNCTION3 PFK	36.40	3.134e3					0.5	NO		bb		0.000
51	FUNCTION3 PFK	36.35	2.597e3					0.4	NO		bb		0.000
52	FUNCTION3 PFK	36.29	2.075e4					1.0	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.73	2.243e3					0.4	NO		bb		
2	FUNCTION4 PFK	40.69	4.164e3					0.8	NO		bb		
3	FUNCTION4 PFK	40.64	5.125e3					0.7	NO		bb		
4	FUNCTION4 PFK	38.20	1.738e4					0.9	NO		bb		
5	FUNCTION4 PFK	37.11	1.356e4					1.2	NO		db		
6	FUNCTION4 PFK	37.00	1.512e5					3.4	YES		bd		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:40 Pacific Daylight Time

**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.69	8.536e3					1.2	NO		bb		
2	FUNCTION5 PFK	42.07	3.519e4					3.1	YES		bb		
3	FUNCTION5 PFK	44.56	9.858e2					0.5	NO		bb		
4	FUNCTION5 PFK	44.23	1.477e3					0.7	NO		bb		
5	FUNCTION5 PFK	44.09	2.395e3					0.8	NO		bb		
6	FUNCTION5 PFK	43.79	3.610e3					1.0	NO		bb		
7	FUNCTION5 PFK	42.91	1.765e4					1.7	NO		bb		
8	FUNCTION5 PFK	42.79	6.640e3					1.1	NO		bb		
9	FUNCTION5 PFK	42.74	5.258e3					1.1	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCDPE	27.00	1.070e2					2.1	NO		bb		0.000
2	FUNCTION1 HXCDPE	23.92	7.951e1					1.8	NO		bb		0.000
3	FUNCTION1 HXCDPE	23.28	9.784e1					1.3	NO		bb		0.000
4	FUNCTION1 HXCDPE	22.75	1.073e2					1.5	NO		bb		0.000
5	FUNCTION1 HXCDPE	21.89	1.919e2					6.3	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCDPE	21.60	7.580e1					1.2	NO		db		0.000
2	FUNCTION1 HPCDPE	21.53	8.996e1					2.0	NO		bd		0.000
3	FUNCTION1 HPCDPE	26.65	1.341e2					2.5	NO		bb		0.000
4	FUNCTION1 HPCDPE	24.84	1.365e2					3.3	YES		bb		0.000
5	FUNCTION1 HPCDPE	24.64	1.199e2					1.9	NO		db		0.000
6	FUNCTION1 HPCDPE	24.55	8.170e1					1.7	NO		bd		0.000
7	FUNCTION1 HPCDPE	23.90	8.480e1					1.5	NO		bb		0.000
8	FUNCTION1 HPCDPE	23.48	8.848e1					2.0	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:40 Pacific Daylight Time

**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	30.67	7.744e1					1.5	NO		db		0.000
2	FUNCTION2 HPCDPE	30.54	1.351e2					2.4	NO		bd		0.000
3	FUNCTION2 HPCDPE	30.01	1.295e2					2.0	NO		db		0.000
4	FUNCTION2 HPCDPE	29.93	7.533e1					2.0	NO		bd		0.000
5	FUNCTION2 HPCDPE	28.97	1.076e2					1.9	NO		bb		0.000
6	FUNCTION2 HPCDPE	28.25	1.234e2					2.6	NO		db		0.000
7	FUNCTION2 HPCDPE	28.16	7.164e1					1.8	NO		bd		0.000
8	FUNCTION2 HPCDPE	27.31	2.478e2					1.9	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.20	1.676e2					4.4	YES		db		0.000
2	FUNCTION3 OCDPE	35.10	9.041e1					3.5	YES		bd		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.13	9.742e1					2.5	NO		bb		0.000

**ETHERS6**

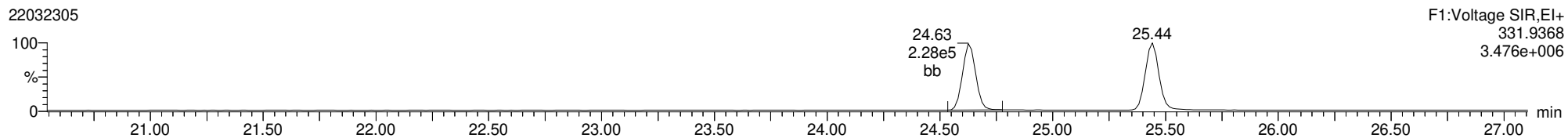
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	42.90	8.334e1					4.2	YES		bb		0.000

**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**  
**Calibration: 24 Mar 2022 08:56:14**

**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

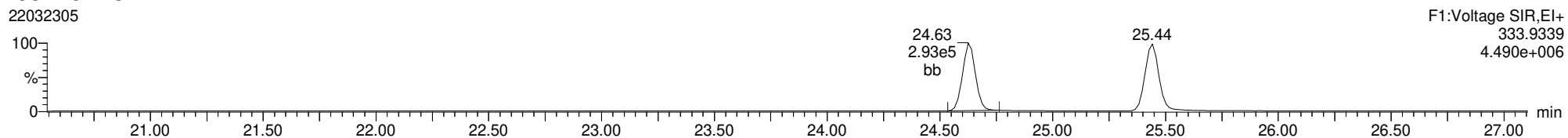
**13C-1234-TCDD**

22032305



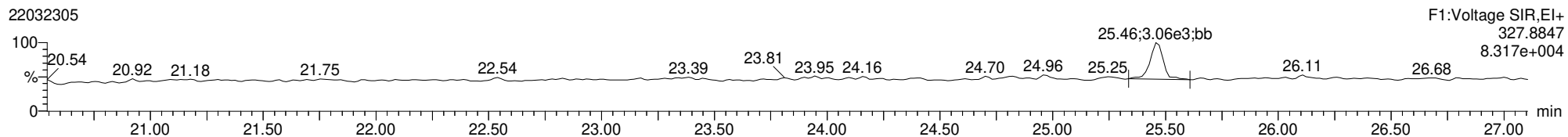
**13C-1234-TCDD**

22032305



**37CL-2378-TCDD**

22032305

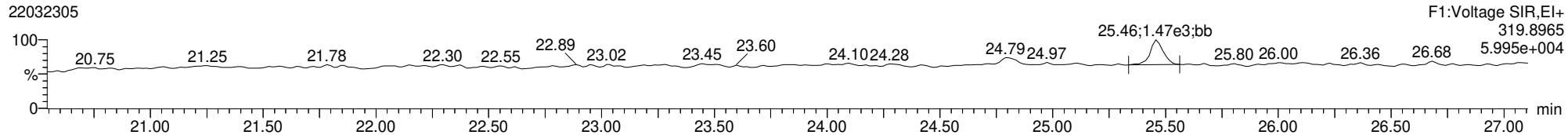




ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

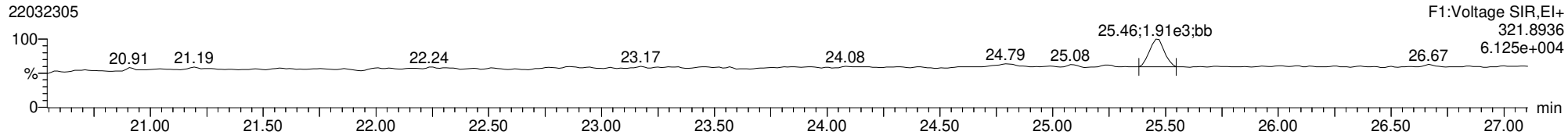
**2378-TCDD**

22032305



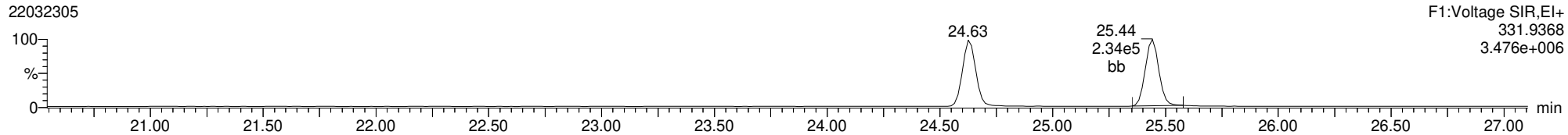
**2378-TCDD**

22032305



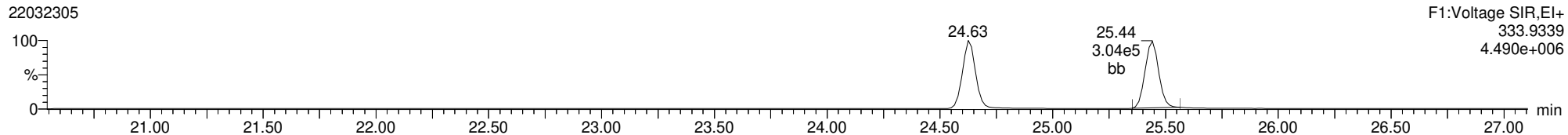
**13C-2378-TCDD**

22032305



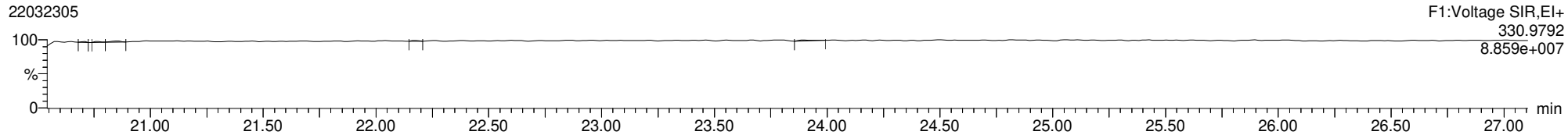
**13C-2378-TCDD**

22032305



**FUNCTION1 PFK**

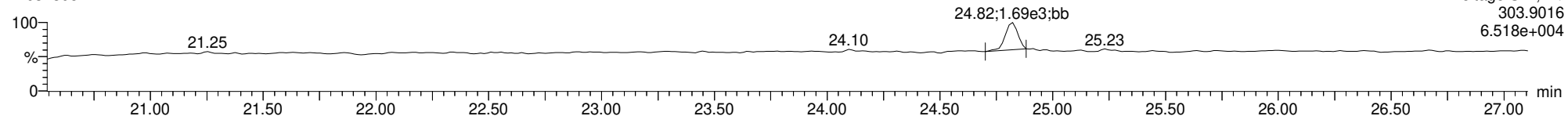
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ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

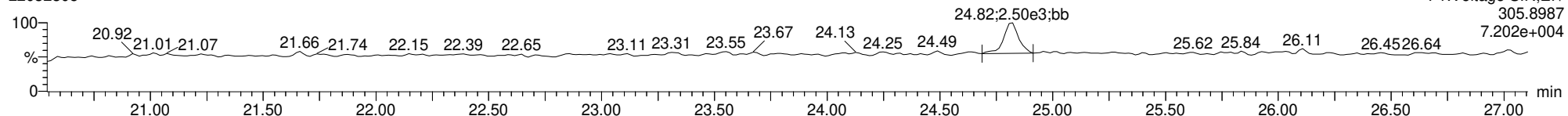
2378-TCDF

22032305



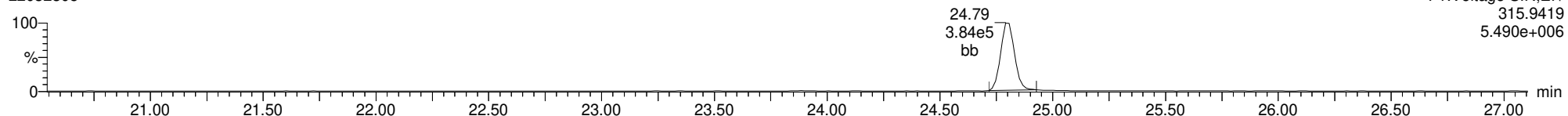
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22032305



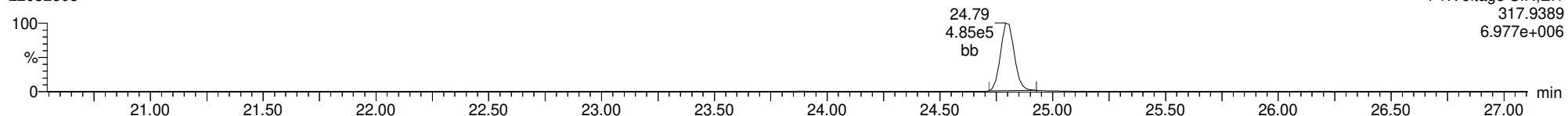
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22032305



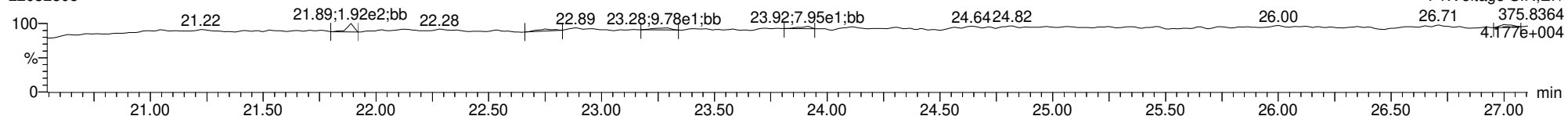
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22032305



FUNCTION1 HXCDPE

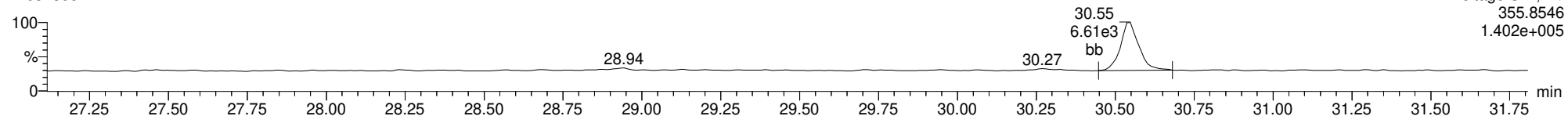
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ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

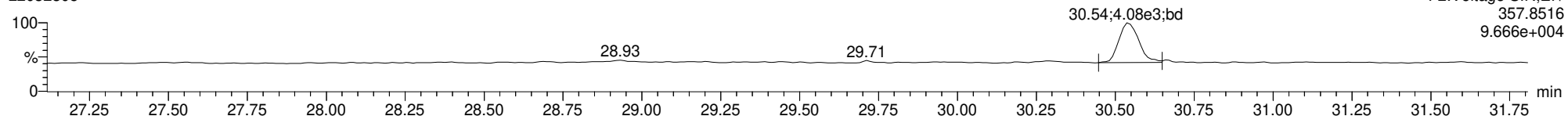
22032305



F2:Voltage SIR,El+  
355.8546  
1.402e+005

**12378-PeCDD**

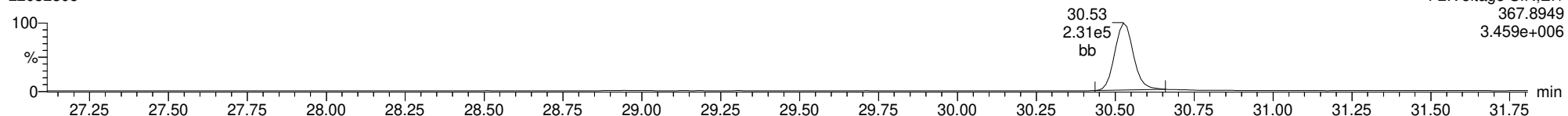
22032305



F2:Voltage SIR,El+  
357.8516  
9.666e+004

**13C-12378-PeCDD**

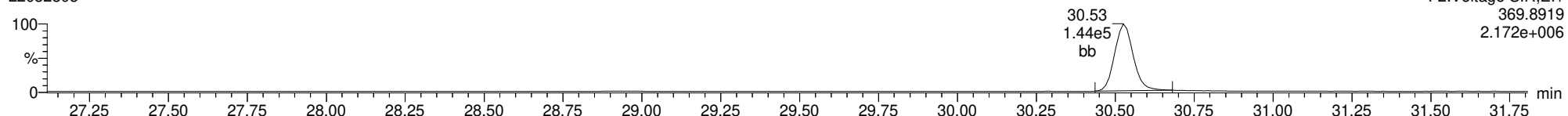
22032305



F2:Voltage SIR,El+  
367.8949  
3.459e+006

**13C-12378-PeCDD**

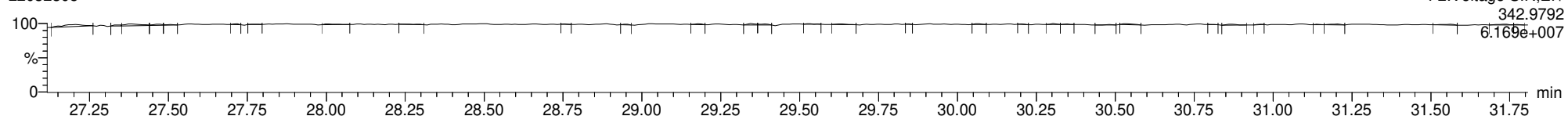
22032305



F2:Voltage SIR,El+  
369.8919  
2.172e+006

**FUNCTION2 PFK**

22032305

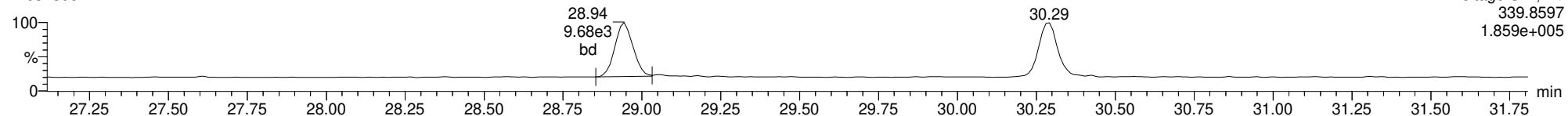


F2:Voltage SIR,El+  
342.9792  
6.169e+007

ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

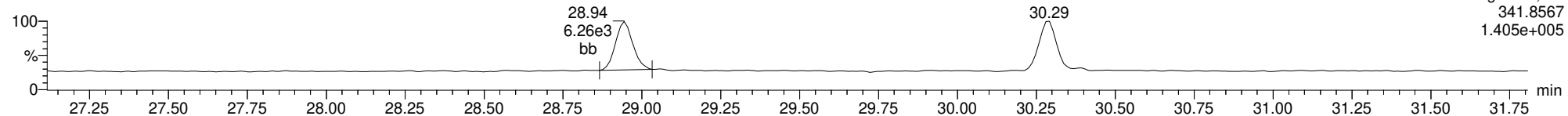
12378-PeCDF

22032305



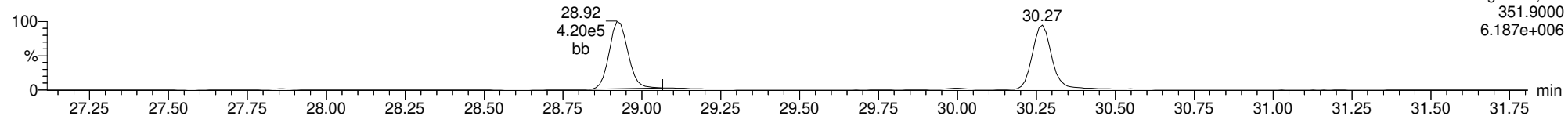
12378-PeCDF

22032305



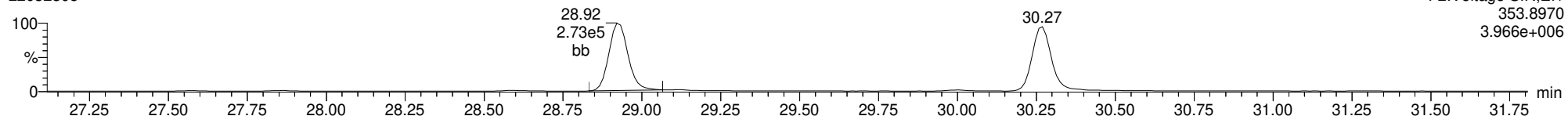
13C-12378-PeCDF

22032305



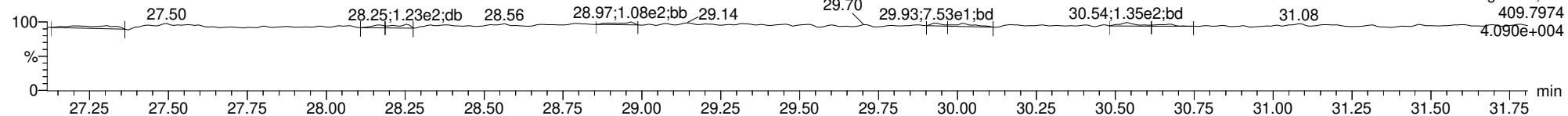
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22032305



FUNCTION2 HPCDPE

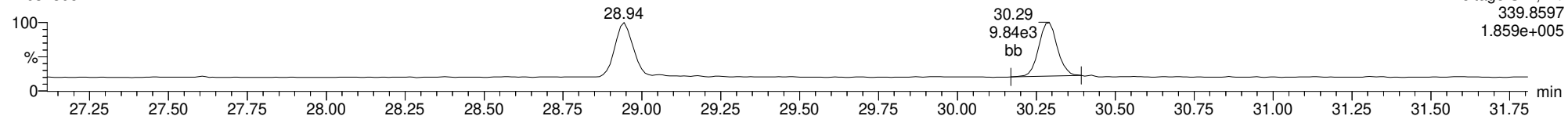
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ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

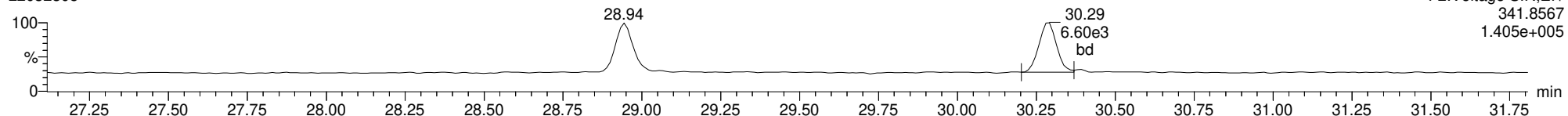
**23478-PeCDF**

22032305



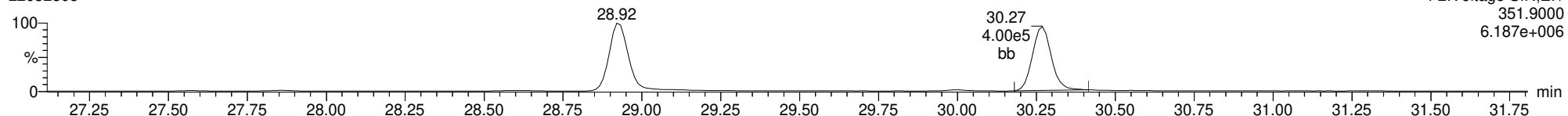
**23478-PeCDF**

22032305



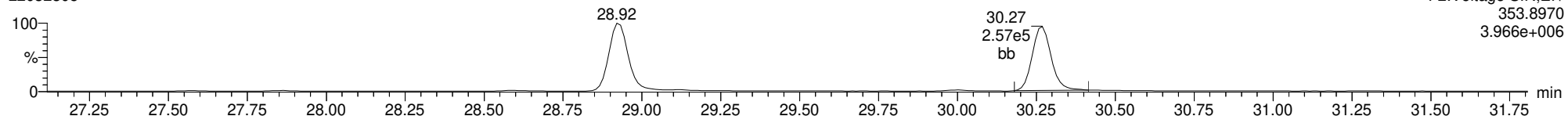
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22032305



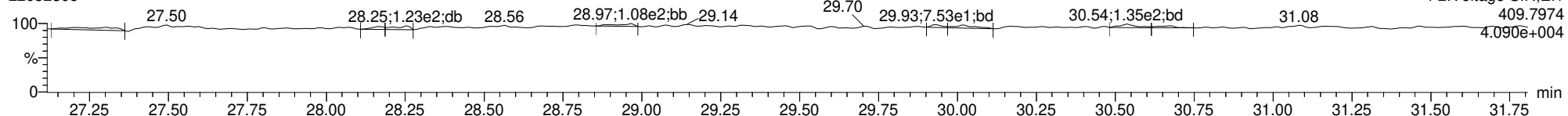
**13C-23478-PeCDF**

22032305



**FUNCTION2 HPCDPE**

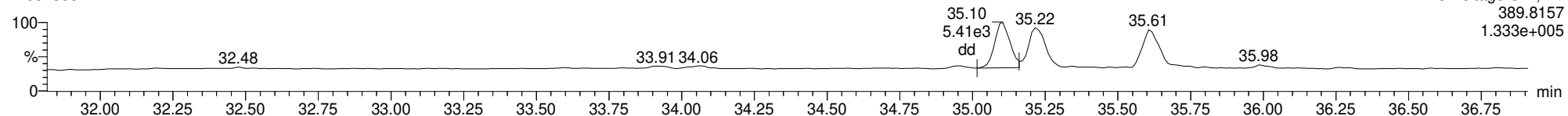
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ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

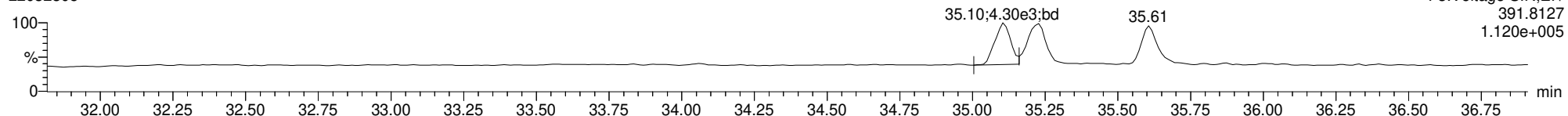
123478-HxCDD

22032305



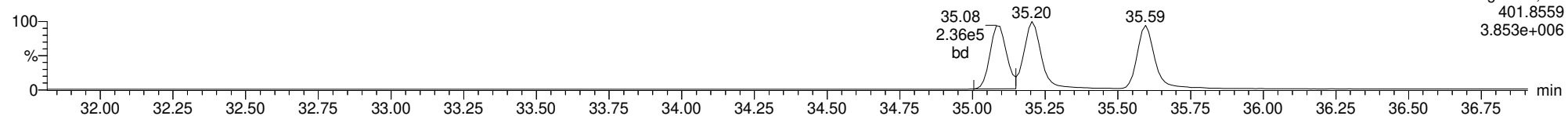
123478-HxCDD

22032305



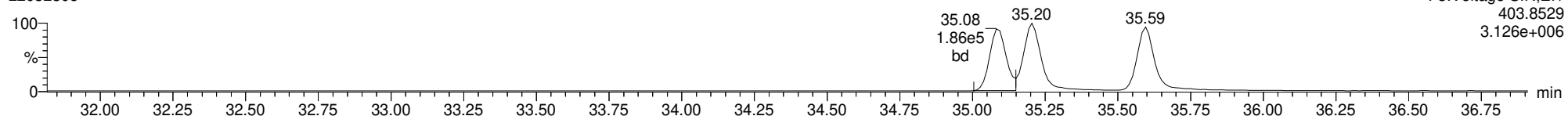
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22032305



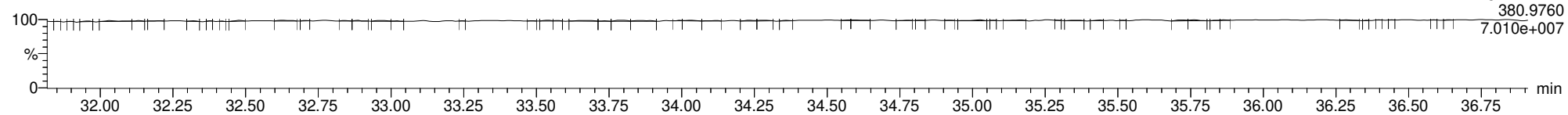
13C-123478-HxCDD

22032305



FUNCTION3 PFK

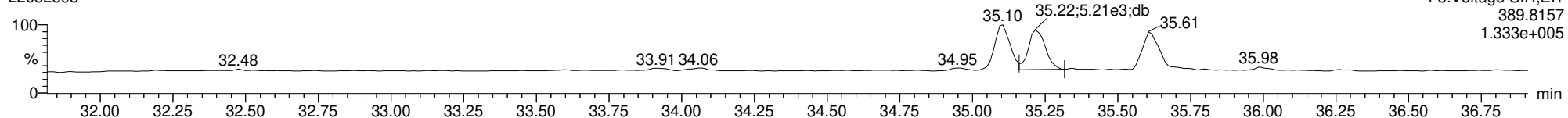
22032305



ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

123678-HxCDD

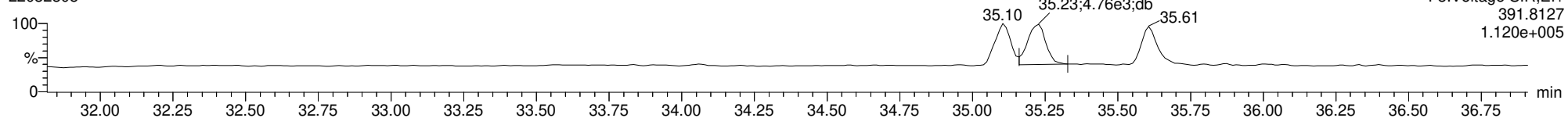
22032305



F3:Voltage SIR,EI+  
389.8157  
1.333e+005

123678-HxCDD

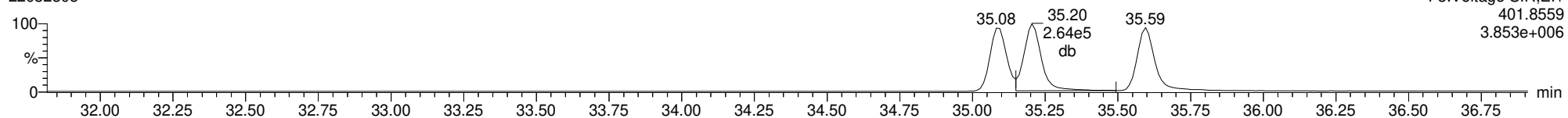
22032305



F3:Voltage SIR,EI+  
391.8127  
1.120e+005

13C-123678-HxCDD

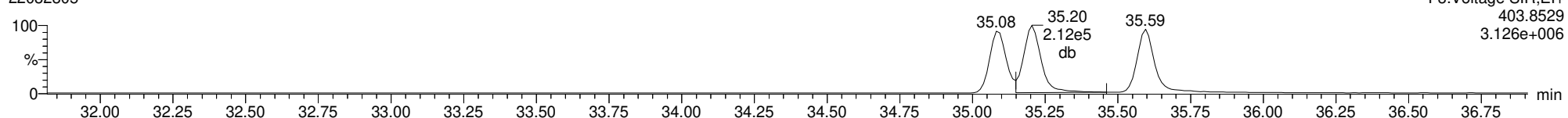
22032305



F3:Voltage SIR,EI+  
401.8559  
3.853e+006

13C-123678-HxCDD

22032305

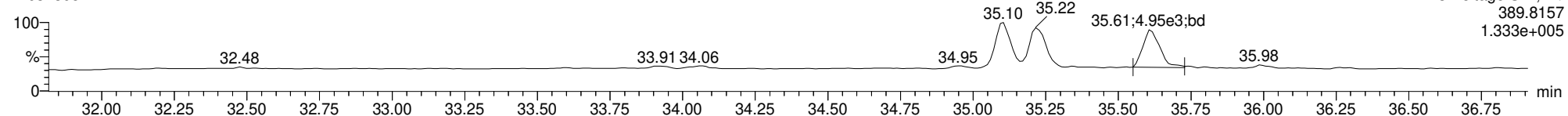


F3:Voltage SIR,EI+  
403.8529  
3.126e+006

ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

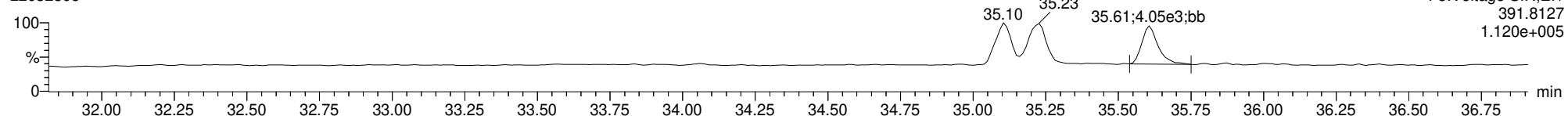
123789-HxCDD

22032305



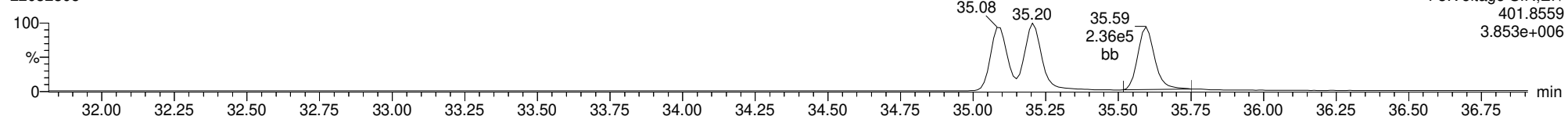
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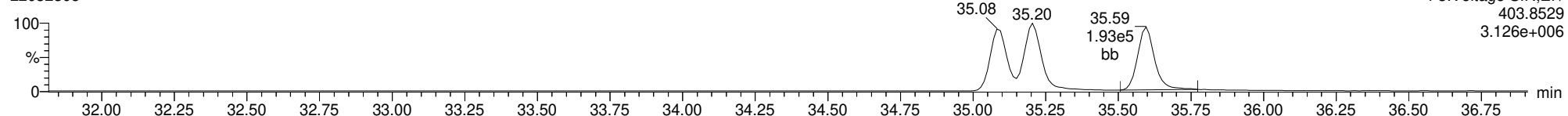
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22032305



13C-123789-HxCDD

22032305

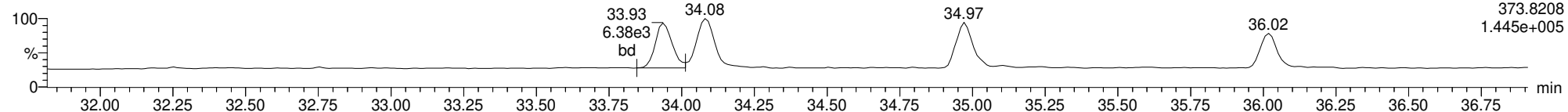




ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

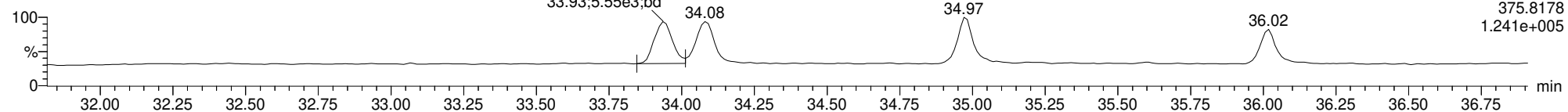
123478-HxCDF

22032305



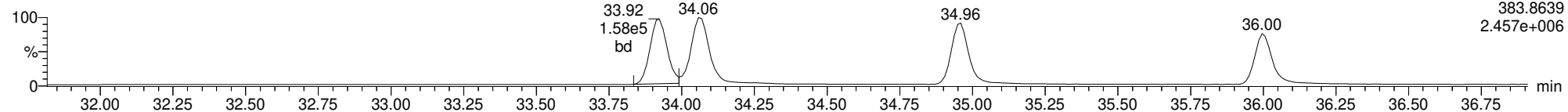
123478-HxCDF

22032305



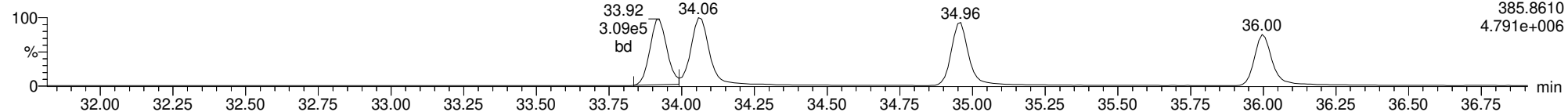
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22032305



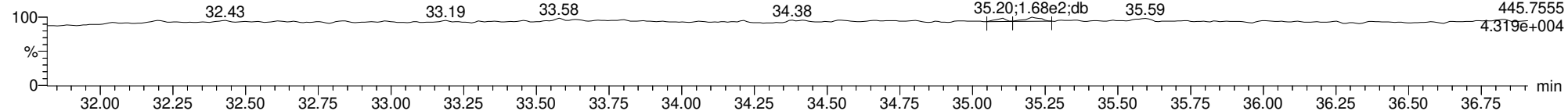
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22032305



FUNCTION3 OCPDE

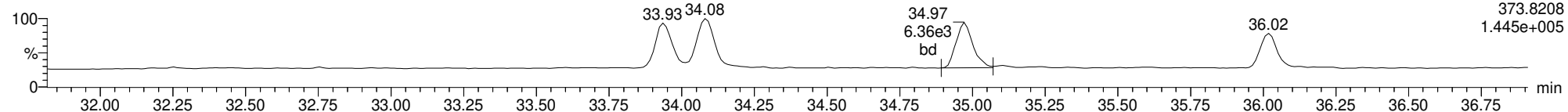
22032305



ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

234678-HxCDF

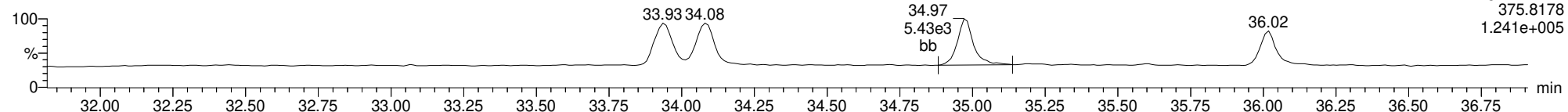
22032305



F3:Voltage SIR,El+  
373.8208  
1.445e+005

234678-HxCDF

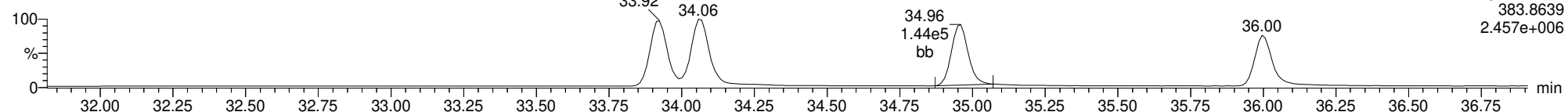
22032305



F3:Voltage SIR,El+  
375.8178  
1.241e+005

13C-234678-HxCDF

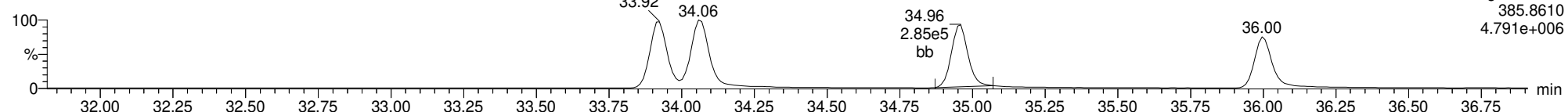
22032305



F3:Voltage SIR,El+  
383.8639  
2.457e+006

13C-234678-HxCDF

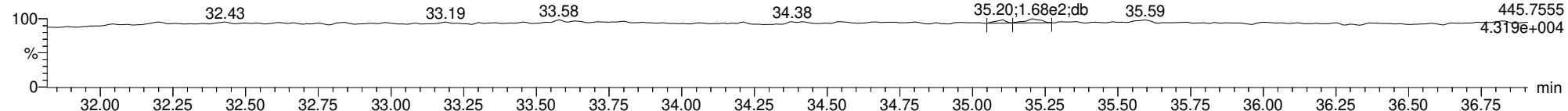
22032305



F3:Voltage SIR,El+  
385.8610  
4.791e+006

FUNCTION3 OCDPE

22032305

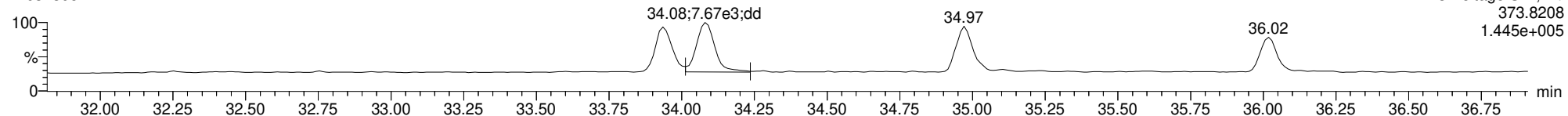


F3:Voltage SIR,El+  
445.7555  
4.319e+004

ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

123678-HxCDF

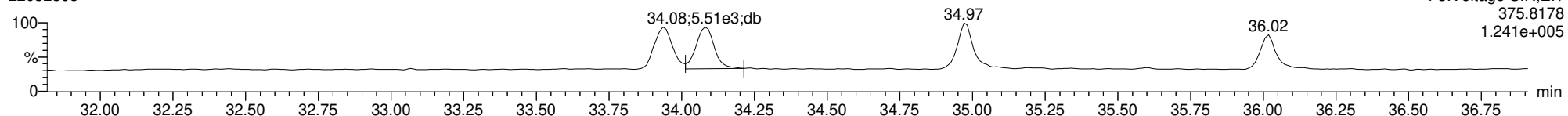
22032305



F3:Voltage SIR,El+  
373.8208  
1.445e+005

123678-HxCDF

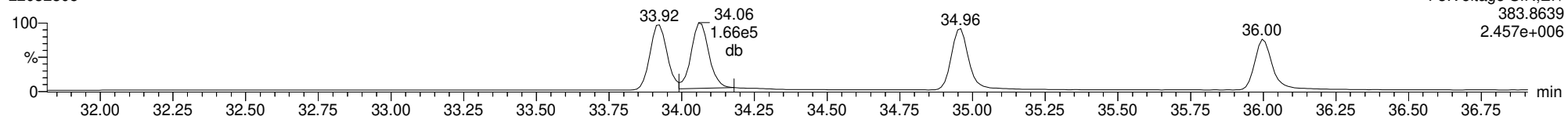
22032305



F3:Voltage SIR,El+  
375.8178  
1.241e+005

13C-123678-HxCDF

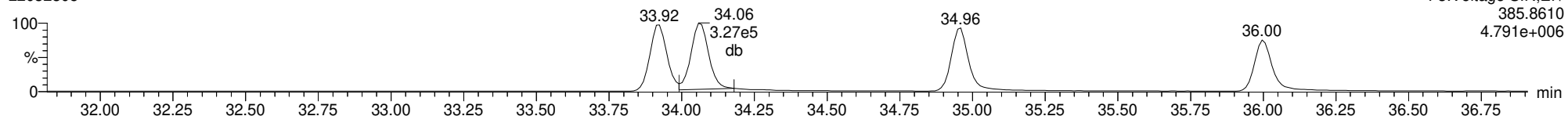
22032305



F3:Voltage SIR,El+  
383.8639  
2.457e+006

13C-123678-HxCDF

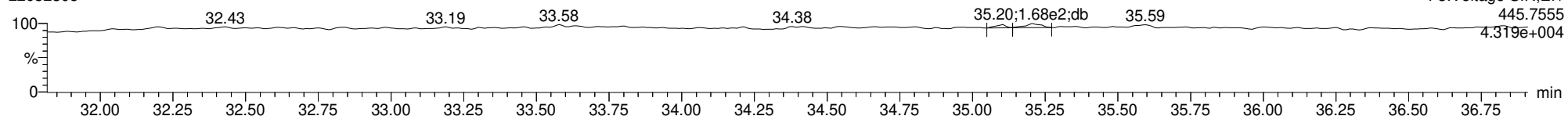
22032305



F3:Voltage SIR,El+  
385.8610  
4.791e+006

FUNCTION3 OCPDE

22032305

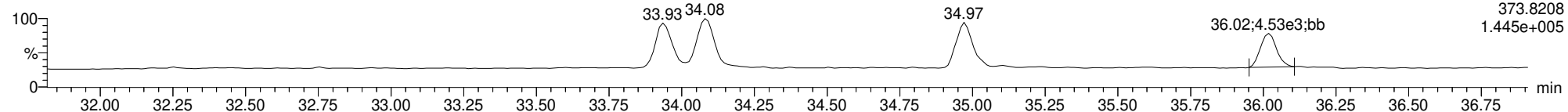


F3:Voltage SIR,El+  
445.7555  
4.319e+004

ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

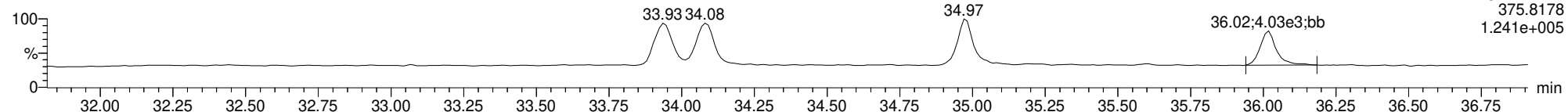
123789-HxCDF

22032305



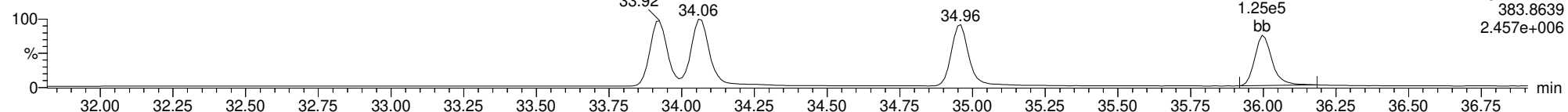
123789-HxCDF

22032305



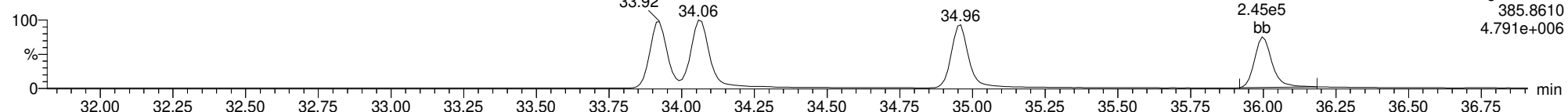
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22032305



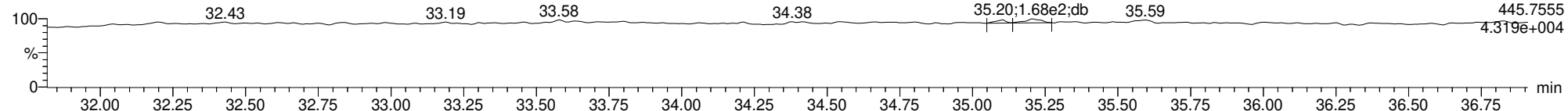
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22032305



FUNCTION3 OGDPE

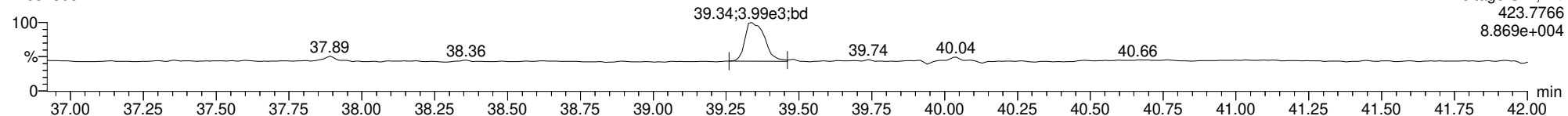
22032305



ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

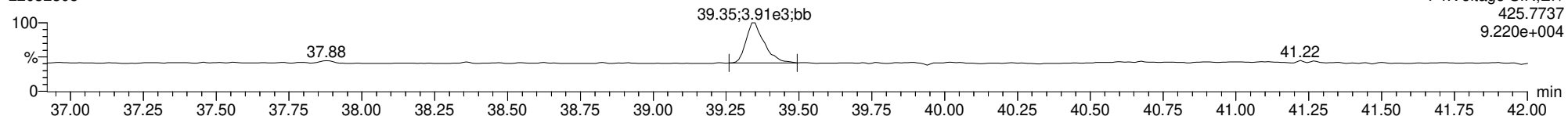
1234678-HpCDD

22032305



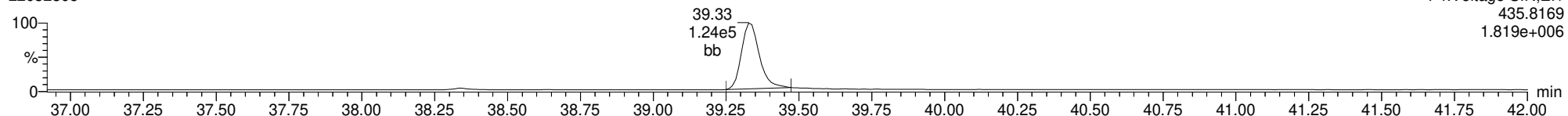
1234678-HpCDD

22032305



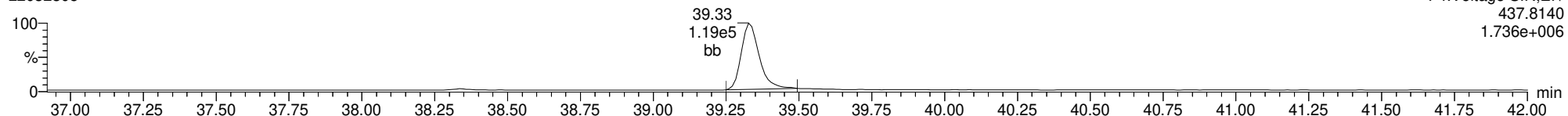
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22032305



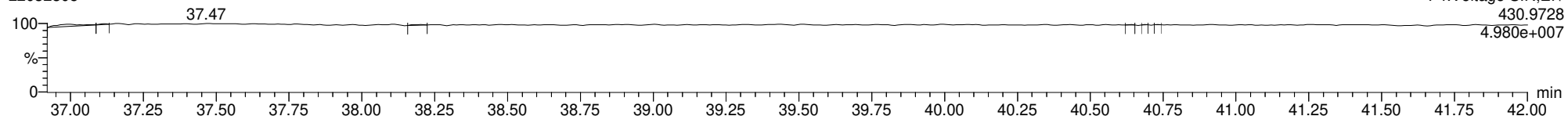
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22032305



FUNCTION4 PFK

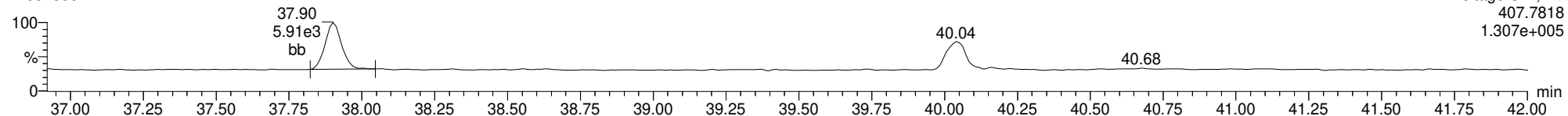
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ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

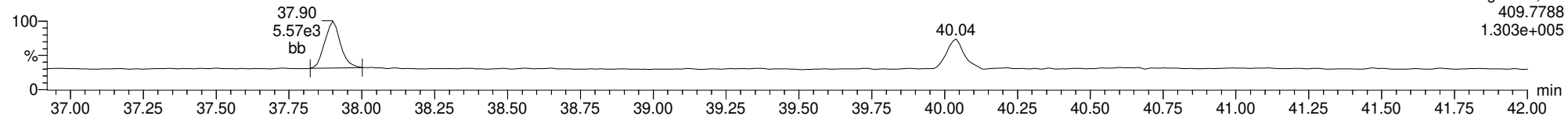
1234678-HpCDF

22032305



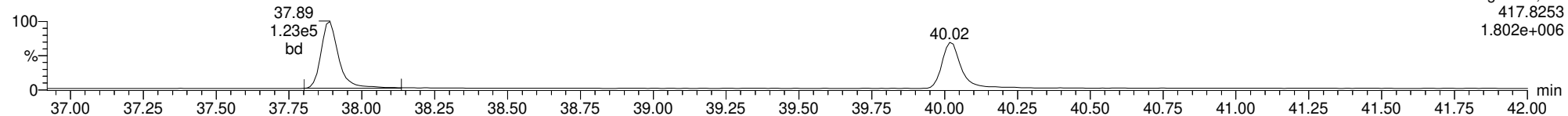
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22032305



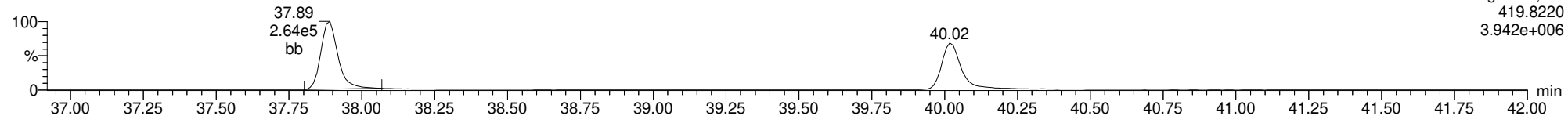
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22032305



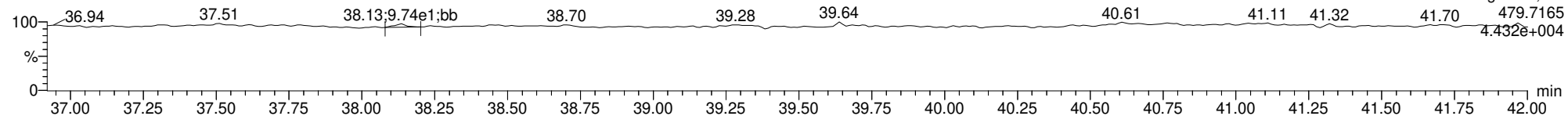
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FUNCTION4 NCDPE

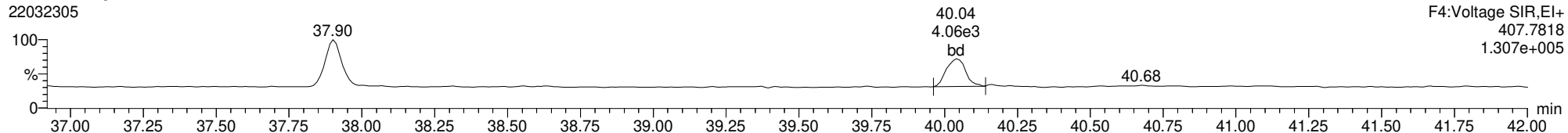
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ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

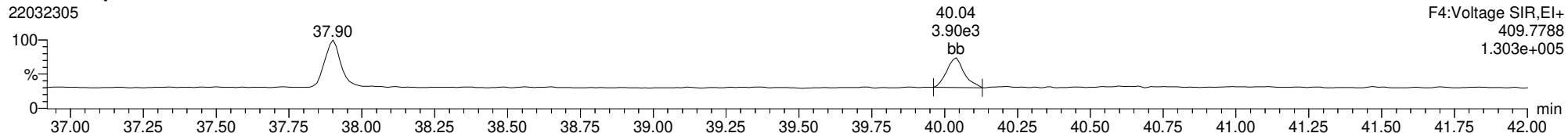
22032305



F4:Voltage SIR,El+  
407.7818  
1.307e+005

1234789-HpCDF

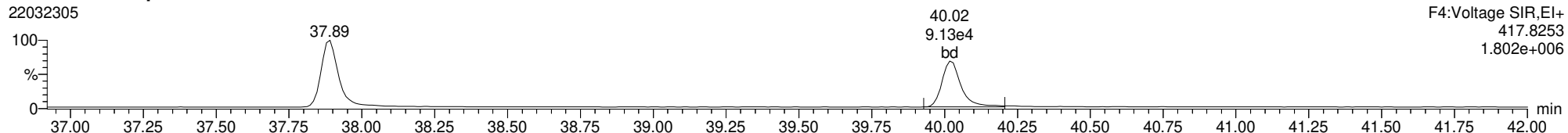
22032305



F4:Voltage SIR,El+  
409.7788  
1.303e+005

13C-1234789-HpCDF

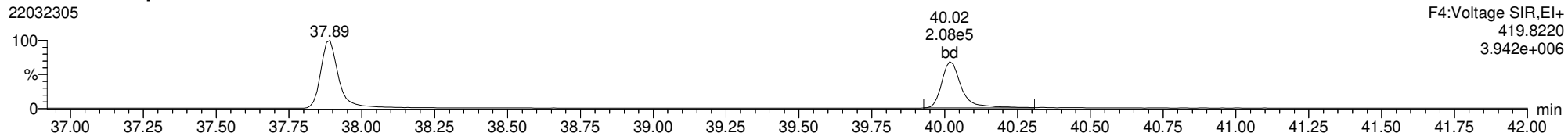
22032305



F4:Voltage SIR,El+  
417.8253  
1.802e+006

13C-1234789-HpCDF

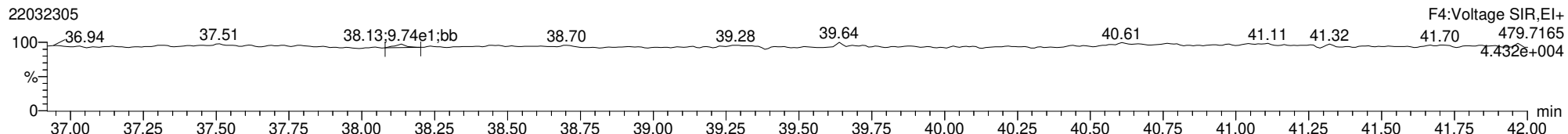
22032305



F4:Voltage SIR,El+  
419.8220  
3.942e+006

FUNCTION4 NCDPE

22032305

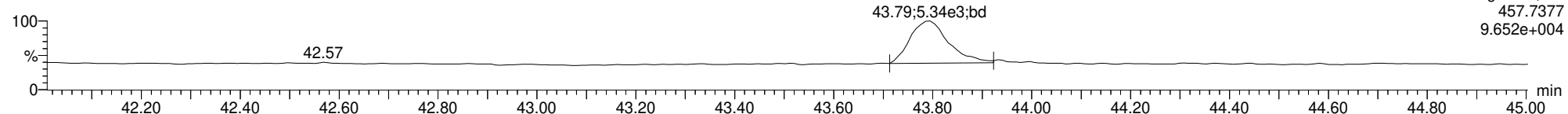


F4:Voltage SIR,El+  
479.7165  
4.432e+004

ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

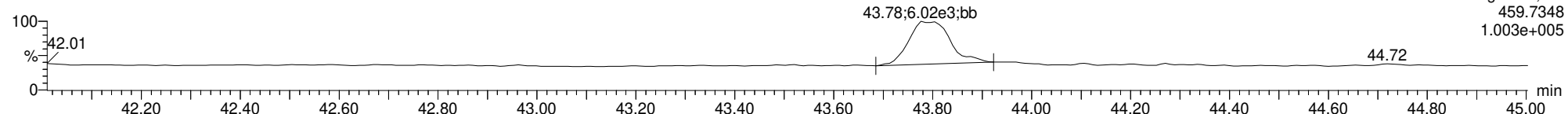
**OCDD**

22032305



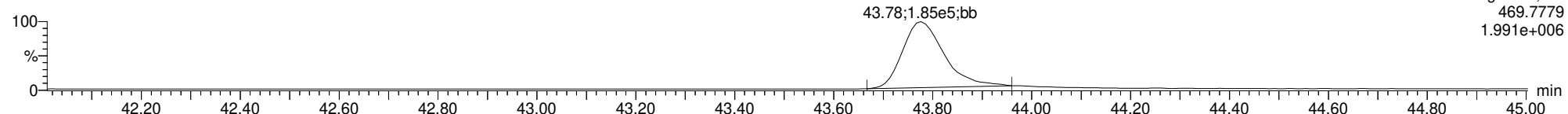
**OCDD**

22032305



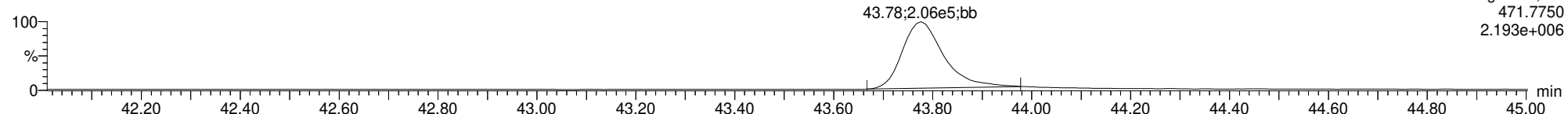
**13C-OCDD**

22032305



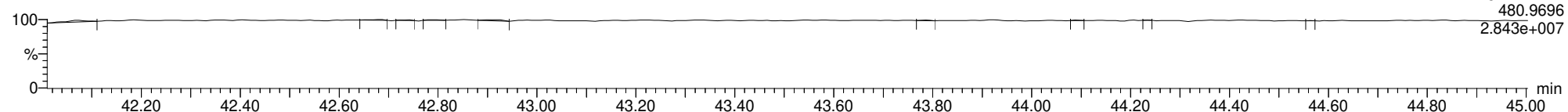
**13C-OCDD**

22032305



**FUNCTION5 PFK**

22032305

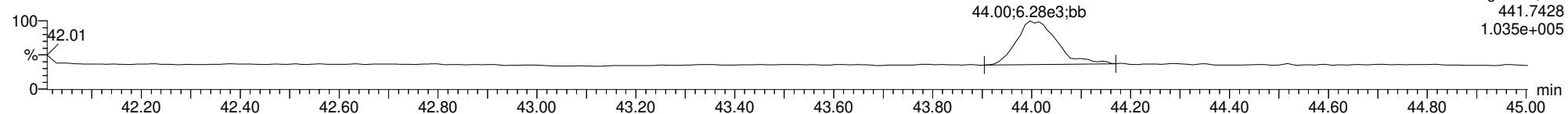




**ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk**

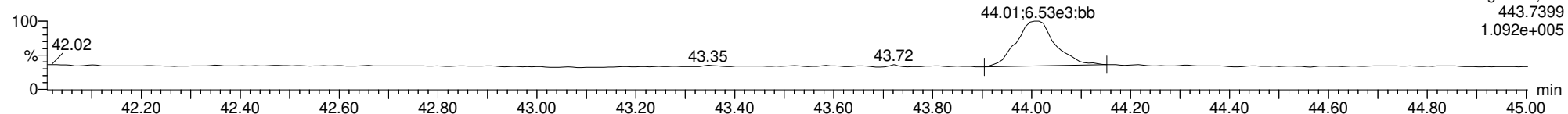
**OCDF**

22032305



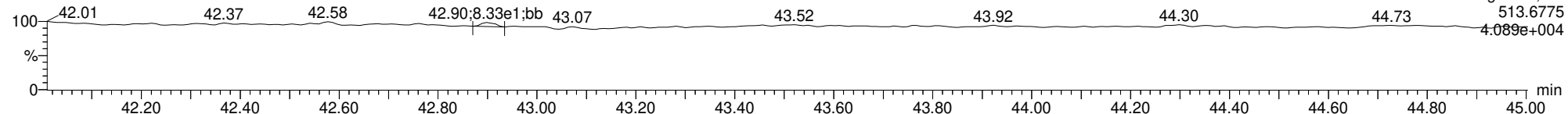
**OCDF**

22032305



**FUNCTION5 DCDPE**

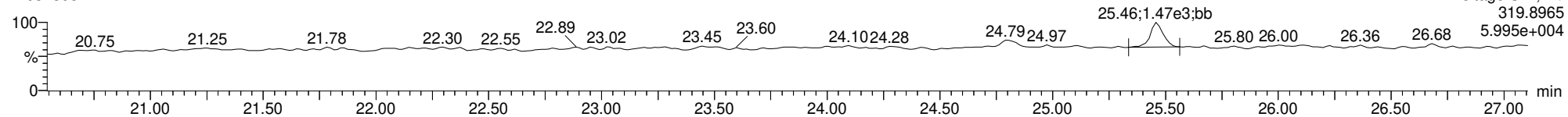
22032305



ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

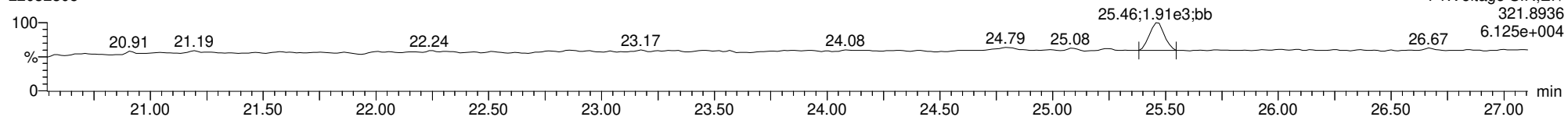
**Total-tetradoxins**

22032305



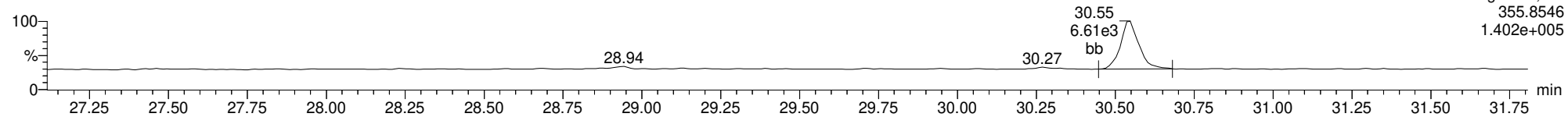
**Total-tetradoxins**

22032305



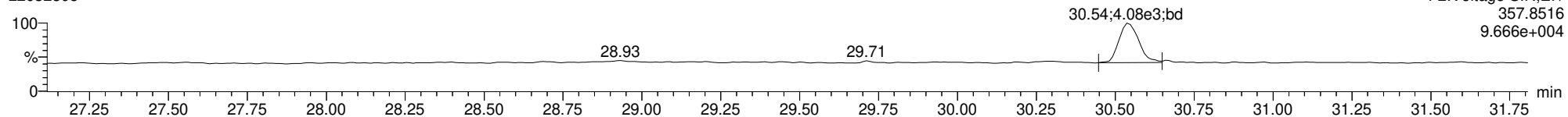
**Total-pentadoxins**

22032305



**Total-pentadoxins**

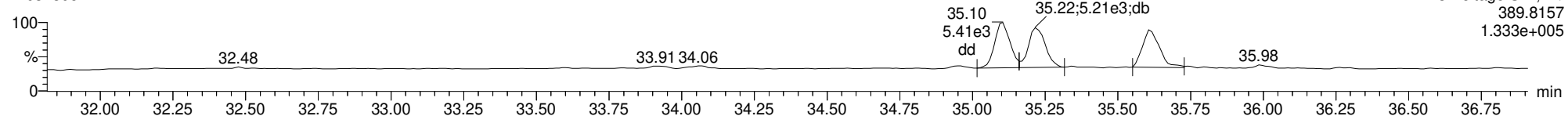
22032305



ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

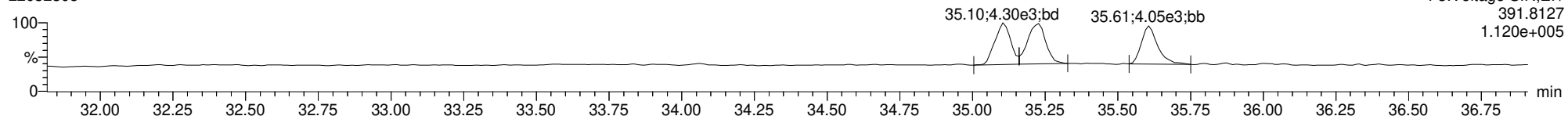
**Total-hexadioxins**

22032305



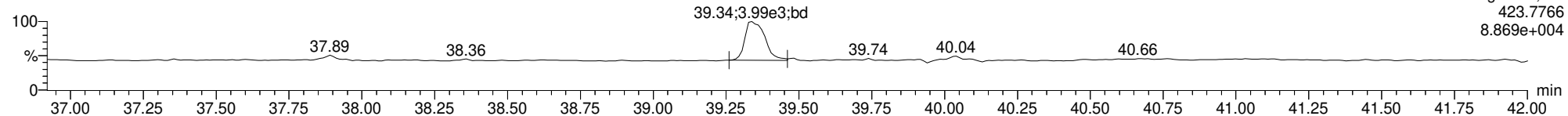
**Total-hexadioxins**

22032305



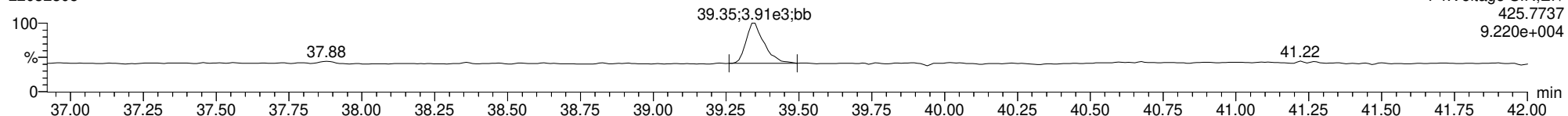
**Total-heptadioxins**

22032305



**Total-heptadioxins**

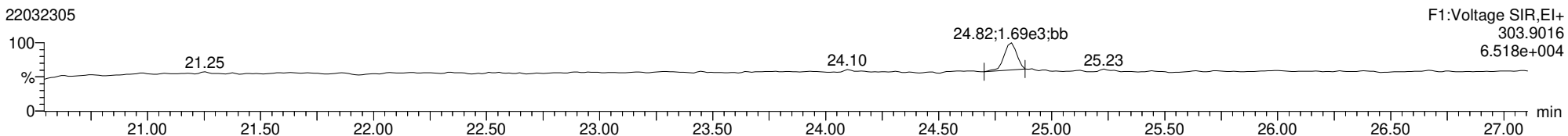
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ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

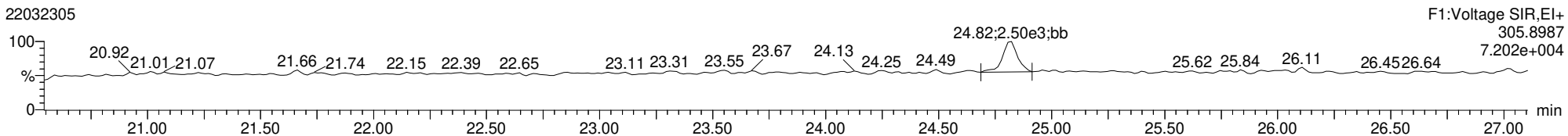
**Total-tetrafurans**

22032305



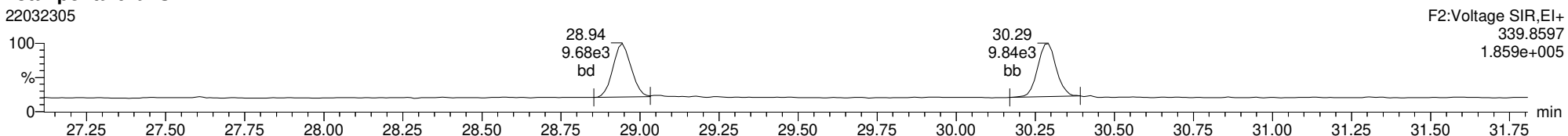
**Total-tetrafurans**

22032305



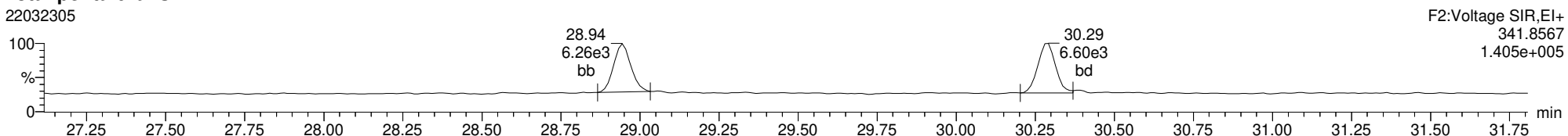
**Total-pentafurans**

22032305



**Total-pentafurans**

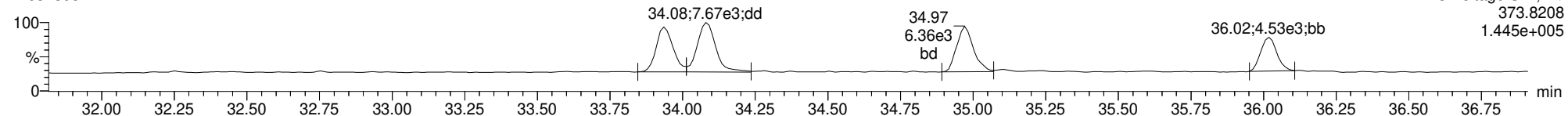
22032305



ID: CS1CH, Name: 22032305, Date: 23-Mar-2022, Time: 12:45:27, Conditions: AUTOSPEC01, User: pk

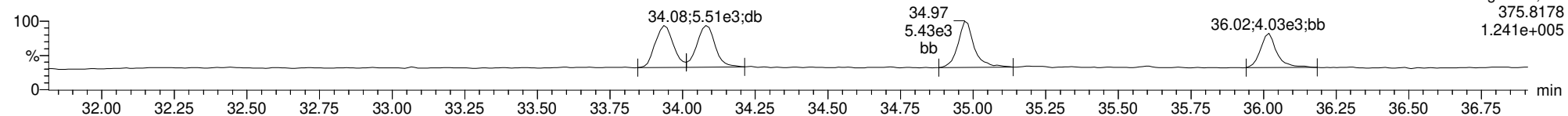
**Total-hexafurans**

22032305



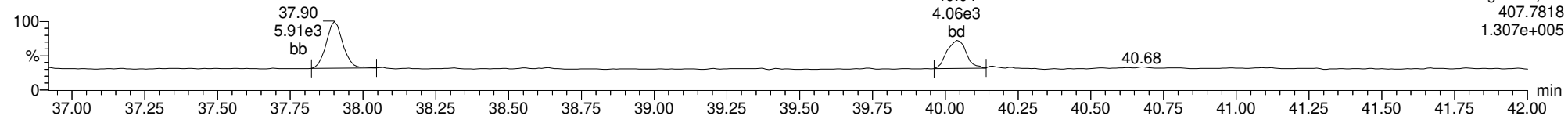
**Total-hexafurans**

22032305



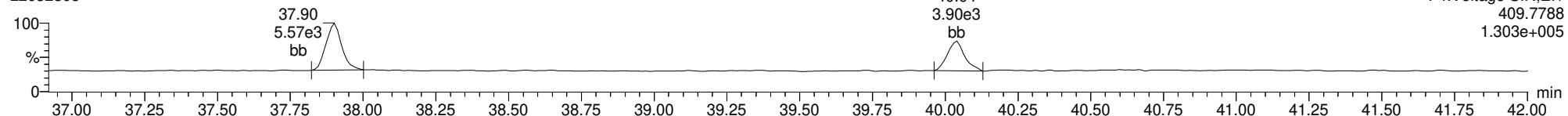
**Total-heptafurans**

22032305



**Total-heptafurans**

22032305



Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:43 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
 Calibration: 24 Mar 2022 08:56:14

ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	24.792	1.001	9.570e3	1.085e4	0.985	0.882	0.770	705	1681	1.49e5	1.60e5	211.4	95.3	NO	bd	bb	2.063
12378-PeCDF	28.921	1.001	4.277e4	2.844e4	0.906	1.504	1.550	1479	1219	6.46e5	3.95e5	436.8	324.1	NO	bb	bb	9.676
23478-PeCDF	30.258	1.000	4.656e4	2.937e4	1.008	1.586	1.550	1479	1219	6.84e5	4.29e5	462.2	351.7	NO	bb	bb	9.759
123478-HxCDF	33.913	1.000	3.243e4	2.658e4	1.045	1.220	1.240	1509	1099	4.82e5	3.90e5	319.5	354.8	NO	bd	bd	9.894
234678-HxCDF	34.960	1.001	3.077e4	2.521e4	1.101	1.220	1.240	1509	1099	4.44e5	3.79e5	294.4	345.2	NO	bb	bd	9.567
123678-HxCDF	34.058	1.000	3.368e4	2.875e4	1.019	1.171	1.240	1509	1099	4.73e5	3.90e5	313.5	355.3	NO	db	dd	10.062
123789-HxCDF	35.996	1.000	2.360e4	1.994e4	0.992	1.184	1.240	1509	1099	3.33e5	2.81e5	220.7	255.8	NO	bb	bd	9.610
1234678-HpCDF	37.879	1.000	3.139e4	3.026e4	1.243	1.037	1.050	1279	1246	4.72e5	4.24e5	369.3	340.3	NO	bd	bd	9.886
1234789-HpCDF	40.018	1.000	2.231e4	2.173e4	1.192	1.027	1.050	1279	1246	3.06e5	3.04e5	239.5	244.1	NO	bd	bd	9.977
OCDF	43.987	1.005	3.021e4	3.520e4	1.303	0.858	0.890	1397	1168	3.27e5	3.61e5	234.0	308.9	NO	bb	bd	19.741
2378-TCDD	25.442	1.001	6.239e3	7.913e3	1.168	0.788	0.770	1479	949	9.14e4	1.11e5	61.8	116.7	NO	bb	bd	1.965
12378-PeCDD	30.526	1.001	3.094e4	1.946e4	1.152	1.590	1.550	949	783	4.64e5	2.83e5	489.4	361.9	NO	bd	bb	10.024
123478-HxCDD	35.083	1.000	2.619e4	2.035e4	0.934	1.287	1.240	847	1063	4.17e5	3.17e5	492.4	297.8	NO	bd	bd	9.996
123678-HxCDD	35.205	1.001	3.162e4	2.422e4	0.950	1.306	1.240	847	1063	4.44e5	3.36e5	524.0	316.4	NO	db	db	10.341
123789-HxCDD	35.595	1.012	2.627e4	2.139e4	0.873	1.228	1.240	847	1063	3.84e5	3.11e5	453.4	292.5	NO	bd	bd	10.236
1234678-HpCDD	39.327	1.000	1.817e4	1.769e4	1.268	1.027	1.050	827	995	2.66e5	2.60e5	321.8	261.7	NO	bd	bb	9.357
OCDD	43.768	1.000	2.433e4	3.082e4	1.089	0.789	0.890	1633	1103	2.80e5	3.28e5	171.3	297.6	NO	bb	bd	19.912
13C-2378-TCDF	24.777	1.007	4.453e5	5.598e5	1.751	0.795	0.770	3169	2193	6.73e6	8.40e6	2122.3	3832.4	NO	bb	bb	98.495
13C-12378-PeCDF	28.899	1.174	4.939e5	3.187e5	1.442	1.550	1.550	2319	2313	7.22e6	4.55e6	3112.8	1968.0	NO	bb	bb	96.732
13C-23478-PeCDF	30.247	1.229	4.696e5	3.026e5	1.366	1.552	1.550	2319	2313	6.85e6	4.41e6	2952.5	1905.7	NO	bb	bb	97.046
13C-123478-HxCDF	33.902	0.953	1.933e5	3.773e5	1.095	0.512	0.510	2418	2391	2.95e6	5.68e6	1221.6	2374.7	NO	bd	bd	99.791
13C-123678-HxCDF	34.047	0.957	2.085e5	4.001e5	1.168	0.521	0.510	2418	2391	2.93e6	5.64e6	1210.5	2360.8	NO	db	db	99.803
13C-234678-HxCDF	34.938	0.982	1.807e5	3.508e5	1.023	0.515	0.510	2418	2391	2.70e6	5.27e6	1115.3	2205.9	NO	bb	bb	99.505
13C-123789-HxCDF	35.985	1.012	1.534e5	3.032e5	0.879	0.506	0.510	2418	2391	2.18e6	4.26e6	899.9	1782.3	NO	bb	bb	99.486
13C-1234678-HpCDF	37.868	1.064	1.541e5	3.474e5	0.925	0.444	0.440	2006	2332	2.16e6	4.87e6	1076.4	2087.9	NO	bd	bd	103.761
13C-1234789-HpCDF	40.007	1.125	1.119e5	2.583e5	0.715	0.433	0.440	2006	2332	1.53e6	3.43e6	760.4	1471.4	NO	bb	bb	99.176
13C-1234-TCDD	24.611	0.000	2.513e5	3.313e5	1.000	0.759	0.770	2555	1385	3.83e6	4.95e6	1499.6	3572.3	NO	bb	bb	100.000
13C-2378-TCDD	25.412	1.033	2.690e5	3.475e5	1.081	0.774	0.770	2555	1385	3.86e6	5.01e6	1510.0	3619.9	NO	bb	bb	97.845
13C-12378-PeCDD	30.503	1.239	2.717e5	1.648e5	0.776	1.648	1.550	1148	954	4.02e6	2.44e6	3504.5	2561.5	NO	bb	bb	96.485
13C-123478-HxCDD	35.071	0.986	2.769e5	2.216e5	0.975	1.249	1.240	1635	1728	4.26e6	3.39e6	2605.6	1960.5	NO	bd	bd	97.900
13C-123678-HxCDD	35.183	0.989	3.093e5	2.589e5	1.067	1.195	1.240	1635	1728	4.38e6	3.57e6	2678.1	2067.1	NO	db	db	102.010
13C-1234678-HpCDD	39.316	1.105	1.595e5	1.428e5	0.582	1.117	1.050	1449	1538	2.23e6	2.06e6	1542.3	1342.0	NO	bd	bb	99.512
13C-OCDD	43.758	1.230	2.455e5	2.631e5	0.509	0.933	0.890	2132	2715	2.53e6	2.79e6	1184.8	1027.0	NO	bd	bb	191.478
13C-123789-HxCDD	35.573	0.000	2.842e5	2.381e5	1.000	1.194	1.240	1635	1728	4.08e6	3.34e6	2497.9	1931.0	NO	bb	bd	100.000
37CL-2378-TCDD	25.442	1.034	1.250e4		1.120			1822		1.89e5		103.9			bd		1.916

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**ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.300		0.770	705	1681								
1289-TCDF					0.931		0.770	705	1681								
13468-PECDF					1.308		1.550	597	842								
12389-PECDF					0.860		1.550	1479	1219								
123468-HXCDF					1.156		1.240	1509	1099								
1368-TCDD					1.151		0.770	1479	949								
1289-TCDD					0.950		0.770	1479	949								
12479-PECDD					2.164		1.550	949	783								
12389-PECDD					1.371		1.550	949	783								
124679-HXCDD					1.153		1.240	847	1063								
1234679-HPCDD					1.473		1.050	827	995								
Total-tetrafurans			9.570e3		1.072			705		1.49e5							2.063
Total-penta1			0.000e0					597		0.00e0							
Total-pentafurans			8.933e4		0.924			1479		1.33e6							19.435
Total-hexafurans			1.205e5		1.063			1509		1.73e6							39.132
Total-heptafurans			5.382e4		1.218			1279		7.82e5							19.908
Total-Furans			3.034e5		1.090			705		4.32e6							100.279
Total-tetradoxins			6.239e3		1.090			1479		9.14e4							1.965
Total-pentadoxins			3.094e4		1.562			949		4.64e5							10.024
Total-hexadoxins			8.408e4		0.978			847		1.25e6							30.573
Total-heptadoxins			1.817e4		1.371			827		2.66e5							9.357
Total-Dioxins			1.638e5		1.207			1479		2.35e6							71.831
Total-TEQ			4.672e5					1479		6.67e6							172.110
FUNCTION1 PFK			4.975e5					621932		1.13e7							
FUNCTION2 PFK			1.358e6					723737		3.08e7							0.000
FUNCTION3 PFK			4.133e5					424429		1.14e7							0.000
FUNCTION4 PFK			4.378e5					356544		1.21e7							
FUNCTION5 PFK			5.962e4					209062		2.50e6							
FUNCTION1 HXCDPE			0.000e0					552		0.00e0							
FUNCTION1 HPCDPE			0.000e0					787		0.00e0							
FUNCTION2 HPCDPE			1.348e2					797		2.76e3							0.000
FUNCTION3 OCDPE			4.761e2					637		8.93e3							0.000
FUNCTION4 NCDPE			2.926e2					735		4.50e3							0.000
FUNCTION5 DCDPE			2.720e2					646		6.38e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
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**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**

**Calibration: 24 Mar 2022 08:56:14**

**ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.79	9.570e3	1.085e4	0.985	0.88	0.77	211.4	YES	NO	bd	bb	2.063

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	30.26	4.656e4	2.937e4	1.008	1.59	1.55	462.2	YES	NO	bb	bb	9.759
2	12378-PeCDF	28.92	4.277e4	2.844e4	0.906	1.50	1.55	436.8	YES	NO	bb	bb	9.676

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	34.96	3.077e4	2.521e4	1.101	1.22	1.24	294.4	YES	NO	bb	bd	9.567
2	123678-HxCDF	34.06	3.368e4	2.875e4	1.019	1.17	1.24	313.5	YES	NO	db	dd	10.062
3	123478-HxCDF	33.91	3.243e4	2.658e4	1.045	1.22	1.24	319.5	YES	NO	bd	bd	9.894
4	123789-HxCDF	36.00	2.360e4	1.994e4	0.992	1.18	1.24	220.7	YES	NO	bb	bd	9.610

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	40.36	1.224e2	1.119e2	1.218	1.09	1.05	2.9	NO	NO	bb	bb	0.044
2	1234789-HpCDF	40.02	2.231e4	2.173e4	1.192	1.03	1.05	239.5	YES	NO	bd	bd	9.977
3	1234678-HpCDF	37.88	3.139e4	3.026e4	1.243	1.04	1.05	369.3	YES	NO	bd	bd	9.886



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.79	9.570e3	1.085e4	0.985	0.88	0.77	211.4	YES	NO	bd	bb	2.063
2	234678-HxCDF	34.96	3.077e4	2.521e4	1.101	1.22	1.24	294.4	YES	NO	bb	bd	9.567
3	123678-HxCDF	34.06	3.368e4	2.875e4	1.019	1.17	1.24	313.5	YES	NO	db	dd	10.062
4	123478-HxCDF	33.91	3.243e4	2.658e4	1.045	1.22	1.24	319.5	YES	NO	bd	bd	9.894
5	23478-PeCDF	30.26	4.656e4	2.937e4	1.008	1.59	1.55	462.2	YES	NO	bb	bb	9.759
6	12378-PeCDF	28.92	4.277e4	2.844e4	0.906	1.50	1.55	436.8	YES	NO	bb	bb	9.676
7	123789-HxCDF	36.00	2.360e4	1.994e4	0.992	1.18	1.24	220.7	YES	NO	bb	bd	9.610
8	Total-heptafurans	40.36	1.224e2	1.119e2	1.218	1.09	1.05	2.9	NO	NO	bb	bb	0.044
9	1234789-HpCDF	40.02	2.231e4	2.173e4	1.192	1.03	1.05	239.5	YES	NO	bd	bd	9.977
10	1234678-HpCDF	37.88	3.139e4	3.026e4	1.243	1.04	1.05	369.3	YES	NO	bd	bd	9.886
11	OCDF	43.99	3.021e4	3.520e4	1.303	0.86	0.89	234.0	YES	NO	bb	bd	19.741

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	25.44	6.239e3	7.913e3	1.168	0.79	0.77	61.8	YES	NO	bb	bd	1.965

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	30.53	3.094e4	1.946e4	1.152	1.59	1.55	489.4	YES	NO	bd	bb	10.024

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	35.21	3.162e4	2.422e4	0.950	1.31	1.24	524.0	YES	NO	db	db	10.341
2	123478-HxCDD	35.08	2.619e4	2.035e4	0.934	1.29	1.24	492.4	YES	NO	bd	bd	9.996
3	123789-HxCDD	35.60	2.627e4	2.139e4	0.873	1.23	1.24	453.4	YES	NO	bd	bd	10.236

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.33	1.817e4	1.769e4	1.268	1.03	1.05	321.8	YES	NO	bd	bb	9.357

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	25.44	6.239e3	7.913e3	1.168	0.79	0.77	61.8	YES	NO	bb	bd	1.965
2	123678-HxCDD	35.21	3.162e4	2.422e4	0.950	1.31	1.24	524.0	YES	NO	db	db	10.341
3	123478-HxCDD	35.08	2.619e4	2.035e4	0.934	1.29	1.24	492.4	YES	NO	bd	bd	9.996
4	12378-PeCDD	30.53	3.094e4	1.946e4	1.152	1.59	1.55	489.4	YES	NO	bd	bb	10.024
5	123789-HxCDD	35.60	2.627e4	2.139e4	0.873	1.23	1.24	453.4	YES	NO	bd	bd	10.236
6	OCDD	43.77	2.433e4	3.082e4	1.089	0.79	0.89	171.3	YES	NO	bb	bd	19.912
7	1234678-HpCDD	39.33	1.817e4	1.769e4	1.268	1.03	1.05	321.8	YES	NO	bd	bb	9.357

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.79	9.570e3	1.085e4	0.985	0.88	0.77	211.4	YES	NO	bd	bb	2.063
2	234678-HxCDF	34.96	3.077e4	2.521e4	1.101	1.22	1.24	294.4	YES	NO	bb	bd	9.567
3	123678-HxCDF	34.06	3.368e4	2.875e4	1.019	1.17	1.24	313.5	YES	NO	db	dd	10.062
4	123478-HxCDF	33.91	3.243e4	2.658e4	1.045	1.22	1.24	319.5	YES	NO	bd	bd	9.894
5	23478-PeCDF	30.26	4.656e4	2.937e4	1.008	1.59	1.55	462.2	YES	NO	bb	bb	9.759
6	12378-PeCDF	28.92	4.277e4	2.844e4	0.906	1.50	1.55	436.8	YES	NO	bb	bb	9.676
7	123789-HxCDF	36.00	2.360e4	1.994e4	0.992	1.18	1.24	220.7	YES	NO	bb	bd	9.610
8	Total-heptafurans	40.36	1.224e2	1.119e2	1.218	1.09	1.05	2.9	NO	NO	bb	bb	0.044
9	1234789-HpCDF	40.02	2.231e4	2.173e4	1.192	1.03	1.05	239.5	YES	NO	bd	bd	9.977
10	1234678-HpCDF	37.88	3.139e4	3.026e4	1.243	1.04	1.05	369.3	YES	NO	bd	bd	9.886
11	OCDF	43.99	3.021e4	3.520e4	1.303	0.86	0.89	234.0	YES	NO	bb	bd	19.741
12	2378-TCDD	25.44	6.239e3	7.913e3	1.168	0.79	0.77	61.8	YES	NO	bb	bd	1.965
13	123678-HxCDD	35.21	3.162e4	2.422e4	0.950	1.31	1.24	524.0	YES	NO	db	db	10.341
14	123478-HxCDD	35.08	2.619e4	2.035e4	0.934	1.29	1.24	492.4	YES	NO	bd	bd	9.996
15	12378-PeCDD	30.53	3.094e4	1.946e4	1.152	1.59	1.55	489.4	YES	NO	bd	bb	10.024
16	123789-HxCDD	35.60	2.627e4	2.139e4	0.873	1.23	1.24	453.4	YES	NO	bd	bd	10.236
17	OCDD	43.77	2.433e4	3.082e4	1.089	0.79	0.89	171.3	YES	NO	bb	bd	19.912
18	1234678-HpCDD	39.33	1.817e4	1.769e4	1.268	1.03	1.05	321.8	YES	NO	bd	bb	9.357

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
Printed: Thursday, March 24, 2022 09:18:43 Pacific Daylight Time

**ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk**

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.05	1.256e4					0.6	NO		bb		
2	FUNCTION1 PFK	23.16	5.018e4					1.9	NO		bb		
3	FUNCTION1 PFK	23.07	1.447e4					0.7	NO		bb		
4	FUNCTION1 PFK	22.36	2.010e4					0.9	NO		bb		
5	FUNCTION1 PFK	22.06	3.480e4					0.8	NO		bb		
6	FUNCTION1 PFK	20.97	2.377e4					1.2	NO		bb		
7	FUNCTION1 PFK	20.83	2.429e4					1.2	NO		bb		
8	FUNCTION1 PFK	20.75	2.113e4					1.1	NO		bb		
9	FUNCTION1 PFK	20.65	3.984e3					0.4	NO		bb		
10	FUNCTION1 PFK	26.73	4.720e3					0.5	NO		db		
11	FUNCTION1 PFK	26.59	5.671e4					1.4	NO		bd		
12	FUNCTION1 PFK	26.35	6.356e4					1.5	NO		bb		
13	FUNCTION1 PFK	26.26	5.153e4					1.6	NO		db		
14	FUNCTION1 PFK	26.18	3.198e4					1.2	NO		dd		
15	FUNCTION1 PFK	26.12	4.106e4					1.8	NO		bd		
16	FUNCTION1 PFK	24.73	4.263e4					1.4	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk**

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.04	2.236e4					0.9	NO		bb		0.000
2	FUNCTION2 PFK	27.87	2.489e3					0.3	NO		bb		0.000
3	FUNCTION2 PFK	27.70	2.055e4					0.6	NO		bb		0.000
4	FUNCTION2 PFK	27.41	5.546e4					2.4	NO		db		0.000
5	FUNCTION2 PFK	27.34	1.943e5					3.8	YES		dd		0.000
6	FUNCTION2 PFK	27.25	3.401e5					6.2	YES		dd		0.000
7	FUNCTION2 PFK	27.18	2.263e5					7.6	YES		dd		0.000
8	FUNCTION2 PFK	27.15	2.039e5					8.4	YES		bd		0.000
9	FUNCTION2 PFK	31.46	1.569e4					0.9	NO		bd		0.000
10	FUNCTION2 PFK	31.32	7.036e3					0.5	NO		bb		0.000
11	FUNCTION2 PFK	30.93	2.507e3					0.3	NO		bb		0.000
12	FUNCTION2 PFK	30.88	2.941e3					0.4	NO		bb		0.000
13	FUNCTION2 PFK	30.44	2.331e3					0.3	NO		bb		0.000
14	FUNCTION2 PFK	30.33	1.038e4					0.5	NO		bb		0.000
15	FUNCTION2 PFK	30.18	6.669e4					1.3	NO		bb		0.000
16	FUNCTION2 PFK	29.67	1.567e4					0.8	NO		bb		0.000
17	FUNCTION2 PFK	29.57	2.703e3					0.3	NO		bb		0.000
18	FUNCTION2 PFK	29.33	3.054e4					1.0	NO		bb		0.000
19	FUNCTION2 PFK	29.22	5.908e4					1.3	NO		db		0.000
20	FUNCTION2 PFK	29.16	1.056e4					0.6	NO		bd		0.000
21	FUNCTION2 PFK	29.10	1.061e4					0.7	NO		bb		0.000
22	FUNCTION2 PFK	28.72	7.810e3					0.6	NO		bb		0.000
23	FUNCTION2 PFK	28.51	2.899e3					0.4	NO		bb		0.000
24	FUNCTION2 PFK	28.29	1.086e4					0.6	NO		bb		0.000
25	FUNCTION2 PFK	31.71	1.661e4					0.7	NO		bb		0.000
26	FUNCTION2 PFK	31.60	6.434e3					0.5	NO		bb		0.000
27	FUNCTION2 PFK	31.55	1.140e4					0.6	NO		db		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:43 Pacific Daylight Time

**ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk**

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.59	3.243e3					0.7	NO		bb		0.000
2	FUNCTION3 PFK	33.56	2.691e3					0.6	NO		bb		0.000
3	FUNCTION3 PFK	33.27	1.779e4					1.1	NO		bb		0.000
4	FUNCTION3 PFK	33.20	2.306e3					0.5	NO		bb		0.000
5	FUNCTION3 PFK	33.08	2.553e3					0.5	NO		bb		0.000
6	FUNCTION3 PFK	33.03	9.134e3					0.9	NO		bb		0.000
7	FUNCTION3 PFK	32.64	2.175e3					0.5	NO		bb		0.000
8	FUNCTION3 PFK	32.58	2.041e4					1.4	NO		bb		0.000
9	FUNCTION3 PFK	32.36	5.672e3					0.7	NO		bb		0.000
10	FUNCTION3 PFK	32.23	1.372e4					1.3	NO		bb		0.000
11	FUNCTION3 PFK	32.09	4.618e4					2.3	NO		bb		0.000
12	FUNCTION3 PFK	31.86	6.548e4					3.1	YES		bb		0.000
13	FUNCTION3 PFK	36.84	6.560e3					0.6	NO		bb		0.000
14	FUNCTION3 PFK	36.61	2.237e3					0.5	NO		bb		0.000
15	FUNCTION3 PFK	36.43	6.575e4					2.1	NO		bb		0.000
16	FUNCTION3 PFK	36.31	9.077e3					0.8	NO		bb		0.000
17	FUNCTION3 PFK	35.82	1.976e4					1.2	NO		bb		0.000
18	FUNCTION3 PFK	35.75	5.533e3					0.6	NO		bb		0.000
19	FUNCTION3 PFK	35.52	3.027e4					2.0	NO		bb		0.000
20	FUNCTION3 PFK	35.46	1.017e4					1.2	NO		db		0.000
21	FUNCTION3 PFK	35.36	5.572e4					2.0	NO		bd		0.000
22	FUNCTION3 PFK	35.22	6.543e3					0.8	NO		bb		0.000
23	FUNCTION3 PFK	34.79	2.499e3					0.5	NO		bb		0.000
24	FUNCTION3 PFK	33.83	7.812e3					1.0	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
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**ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk**

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	37.07	3.752e4					2.5	NO		bd		
2	FUNCTION4 PFK	37.00	3.576e4					3.6	YES		db		
3	FUNCTION4 PFK	36.95	4.983e4					3.5	YES		bd		
4	FUNCTION4 PFK	40.49	1.400e4					1.3	NO		bb		
5	FUNCTION4 PFK	40.31	3.026e3					0.8	NO		bb		
6	FUNCTION4 PFK	40.25	9.757e3					0.8	NO		bb		
7	FUNCTION4 PFK	39.95	8.799e3					1.0	NO		bb		
8	FUNCTION4 PFK	39.91	5.574e3					0.9	NO		db		
9	FUNCTION4 PFK	39.87	1.623e4					1.4	NO		bd		
10	FUNCTION4 PFK	39.73	1.283e4					1.4	NO		bb		
11	FUNCTION4 PFK	39.13	4.763e3					0.7	NO		bb		
12	FUNCTION4 PFK	38.84	2.941e3					0.7	NO		bb		
13	FUNCTION4 PFK	38.79	4.969e3					0.7	NO		bb		
14	FUNCTION4 PFK	38.69	7.283e3					0.5	NO		bb		
15	FUNCTION4 PFK	37.95	1.631e4					1.4	NO		bb		
16	FUNCTION4 PFK	37.77	4.013e3					0.6	NO		bb		
17	FUNCTION4 PFK	37.63	4.728e3					0.7	NO		bb		
18	FUNCTION4 PFK	37.30	9.131e3					1.2	NO		bb		
19	FUNCTION4 PFK	37.24	9.197e4					2.3	NO		db		
20	FUNCTION4 PFK	41.52	2.643e4					1.4	NO		bb		
21	FUNCTION4 PFK	41.44	1.604e4					1.2	NO		db		
22	FUNCTION4 PFK	41.40	1.665e4					1.2	NO		bd		
23	FUNCTION4 PFK	41.24	7.285e3					0.8	NO		db		
24	FUNCTION4 PFK	41.21	1.296e4					1.3	NO		bd		
25	FUNCTION4 PFK	40.88	7.159e3					0.9	NO		bb		
26	FUNCTION4 PFK	40.83	1.184e4					1.2	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.99	2.428e3					0.7	NO		bb		
2	FUNCTION5 PFK	42.94	3.461e3					0.9	NO		bb		
3	FUNCTION5 PFK	42.88	1.492e4					1.1	NO		bb		
4	FUNCTION5 PFK	42.78	3.738e3					1.0	NO		db		
5	FUNCTION5 PFK	42.74	3.621e3					0.9	NO		bd		
6	FUNCTION5 PFK	42.72	3.007e3					1.0	NO		bb		
7	FUNCTION5 PFK	42.46	5.481e3					1.4	NO		bb		
8	FUNCTION5 PFK	42.42	1.189e3					0.6	NO		bb		
9	FUNCTION5 PFK	44.40	6.533e3					1.4	NO		bb		
10	FUNCTION5 PFK	43.79	5.464e3					0.9	NO		bb		
11	FUNCTION5 PFK	43.72	5.767e3					0.8	NO		bb		
12	FUNCTION5 PFK	43.51	3.156e3					0.8	NO		bb		
13	FUNCTION5 PFK	43.39	8.565e2					0.4	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	30.51	1.348e2					3.5	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.21	1.473e2					3.5	YES		db		0.000
2	FUNCTION3 OCDPE	35.06	7.831e1					2.3	NO		bd		0.000
3	FUNCTION3 OCDPE	32.77	7.226e1					4.2	YES		bb		0.000
4	FUNCTION3 OCDPE	32.46	8.828e1					1.7	NO		bb		0.000
5	FUNCTION3 OCDPE	32.17	9.000e1					2.4	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk**

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.60	9.978e1					1.8	NO		db		0.000
2	FUNCTION4 NCDPE	40.45	1.209e2					2.0	NO		bd		0.000
3	FUNCTION4 NCDPE	39.19	7.189e1					2.3	NO		bb		0.000

**ETHERS6**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.56	9.946e1					3.2	YES		bb		0.000
2	FUNCTION5 DCDPE	42.93	9.132e1					3.5	YES		bb		0.000
3	FUNCTION5 DCDPE	42.18	8.126e1					3.2	YES		bb		0.000

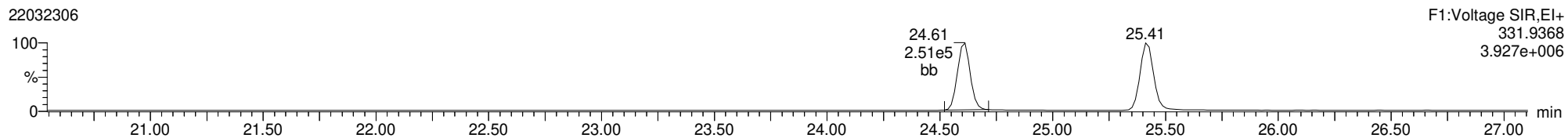


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ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

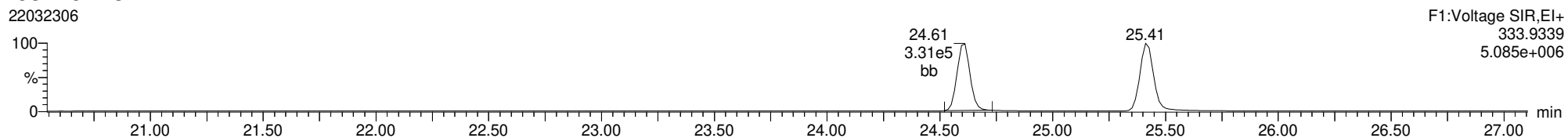
**13C-1234-TCDD**

22032306



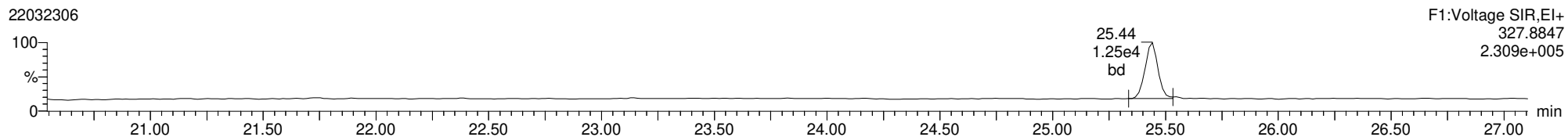
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22032306



**37CL-2378-TCDD**

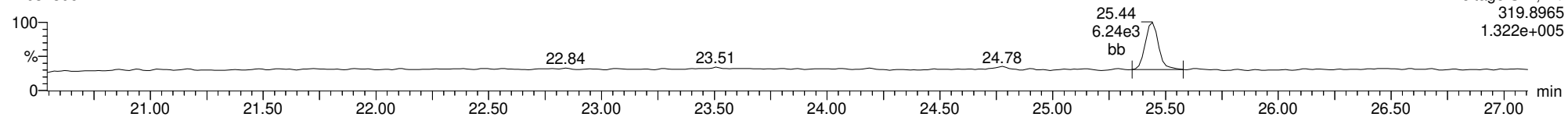
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ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

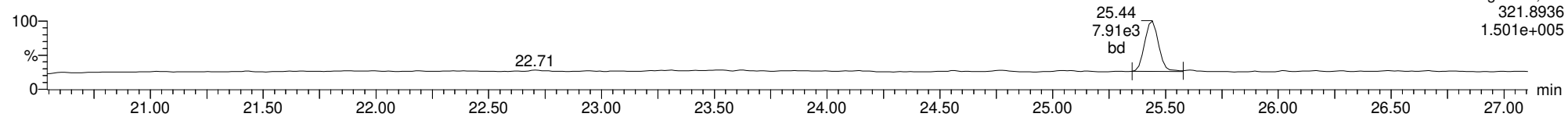
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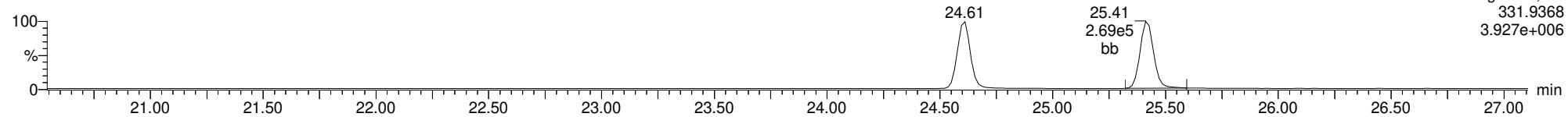
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22032306



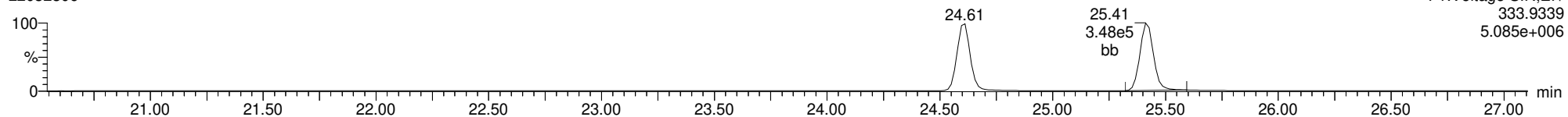
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22032306



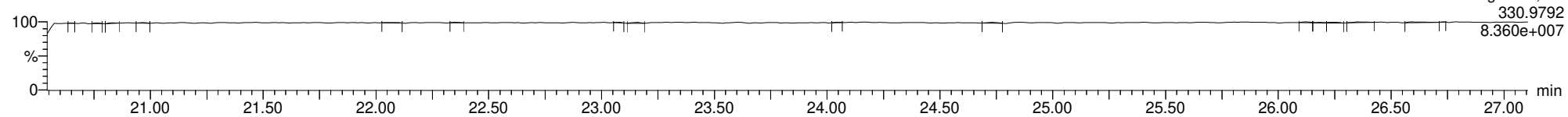
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22032306



**FUNCTION1 PFK**

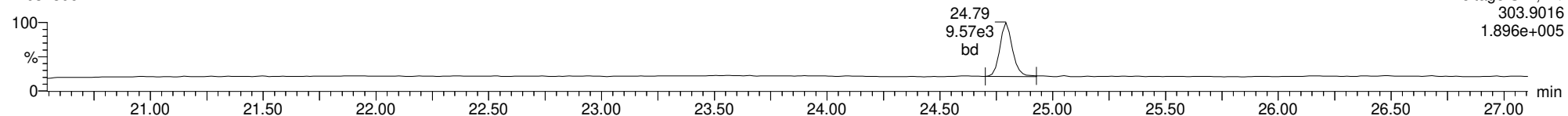
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ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

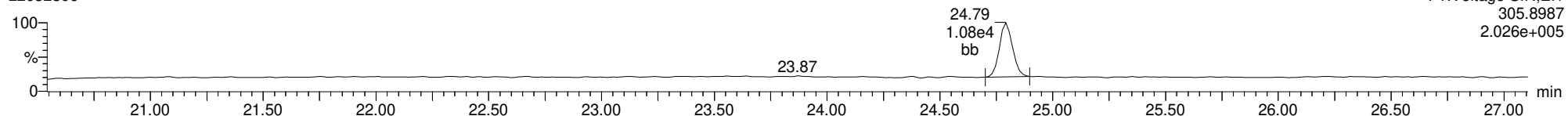
2378-TCDF

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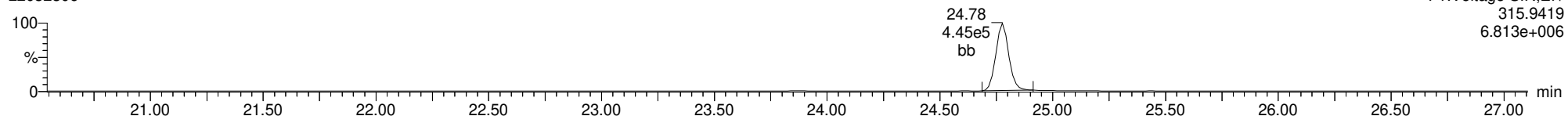
2378-TCDF

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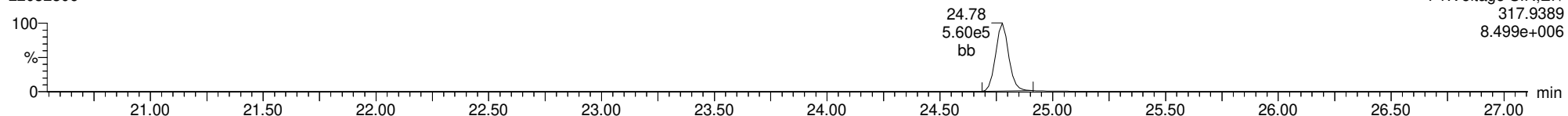
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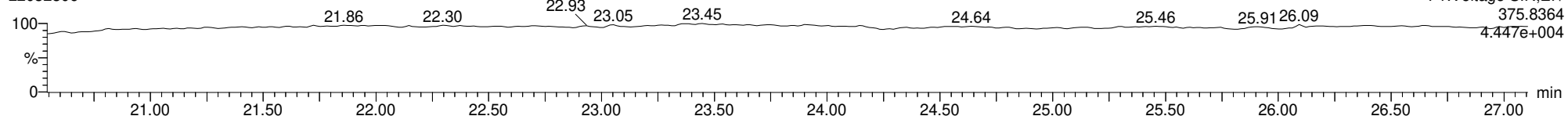
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22032306



FUNCTION1 HXCDPE

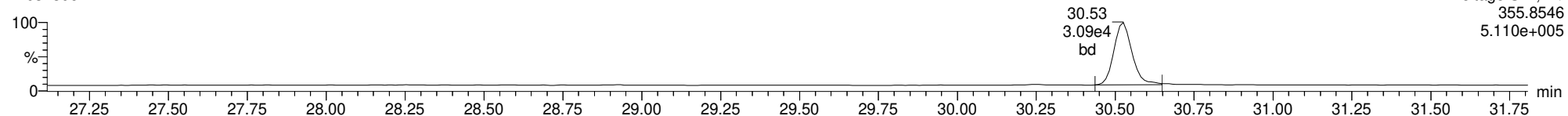
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ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

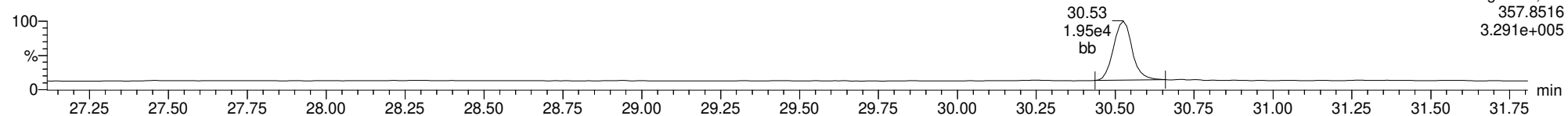
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22032306



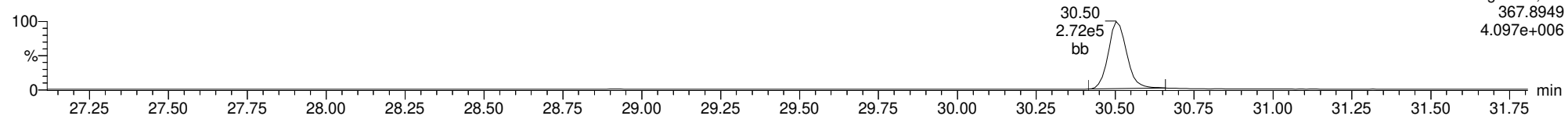
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22032306



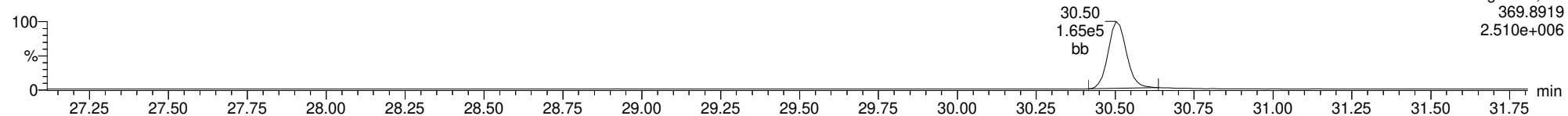
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22032306



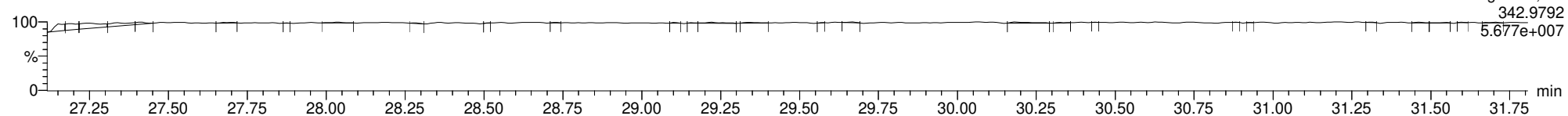
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22032306



FUNCTION2 PFK

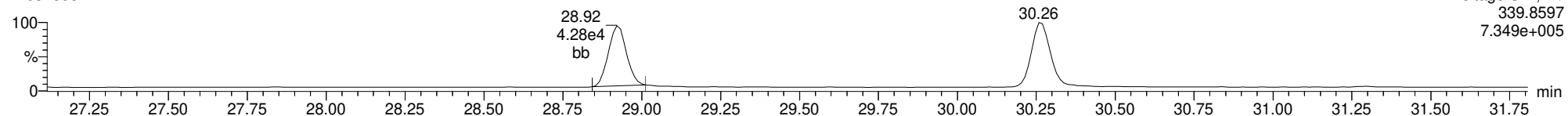
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

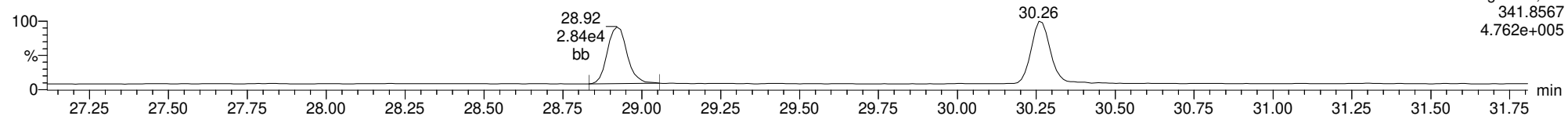
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22032306



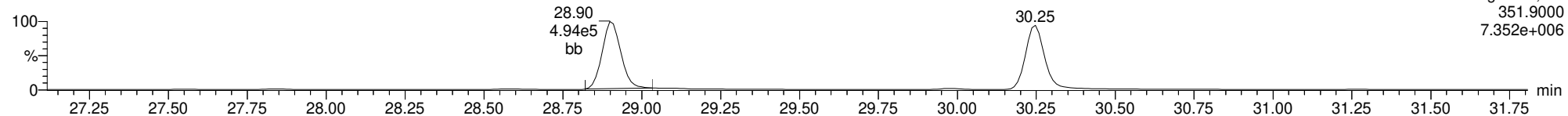
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22032306



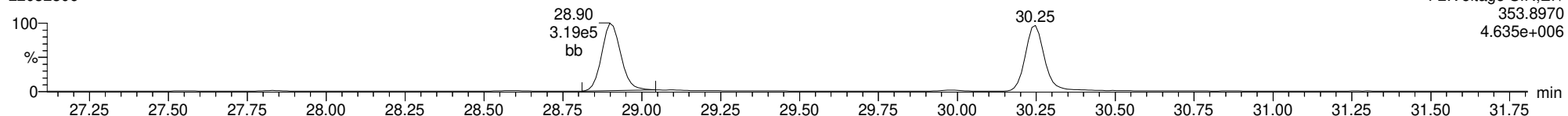
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22032306



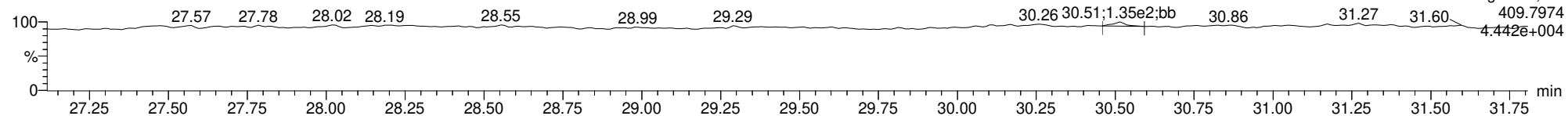
13C-12378-PeCDF

22032306



FUNCTION2 HPCDPE

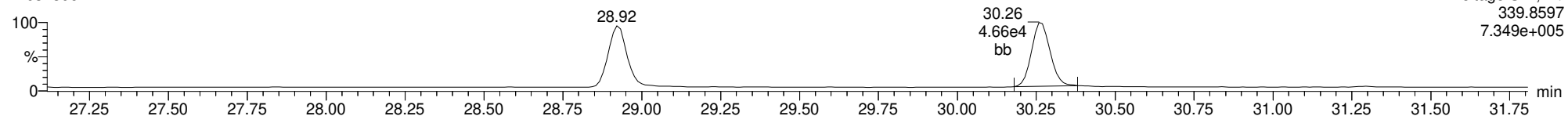
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

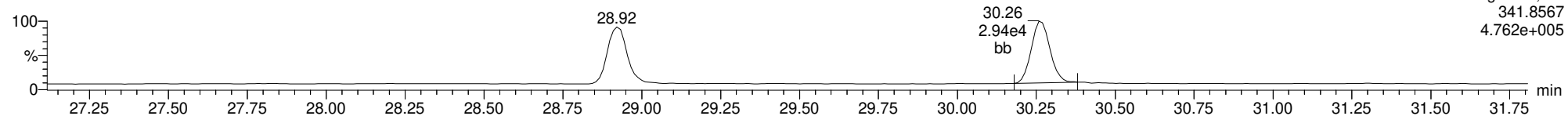
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7.349e+005

**23478-PeCDF**

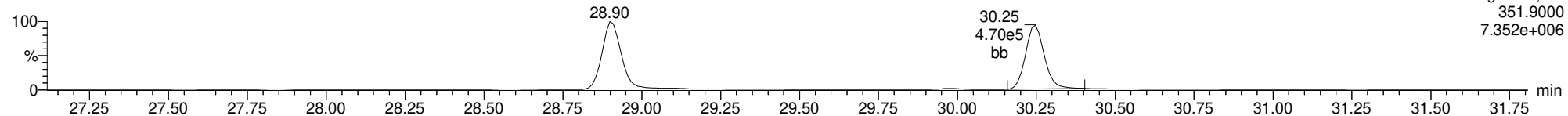
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F2:Voltage SIR,El+  
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4.762e+005

**13C-23478-PeCDF**

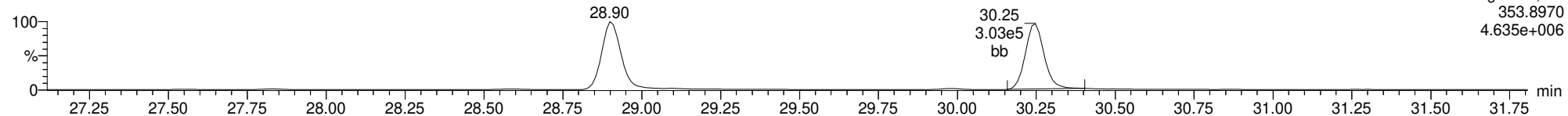
22032306



F2:Voltage SIR,El+  
351.9000  
7.352e+006

**13C-23478-PeCDF**

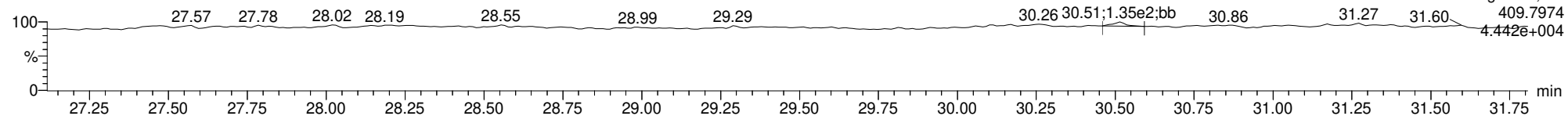
22032306



F2:Voltage SIR,El+  
353.8970  
4.635e+006

**FUNCTION2 HPCDPE**

22032306

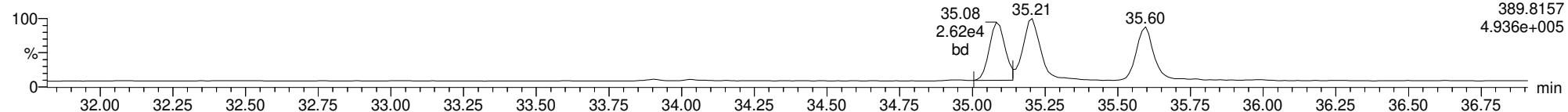


F2:Voltage SIR,El+  
409.7974  
4.442e+004

ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

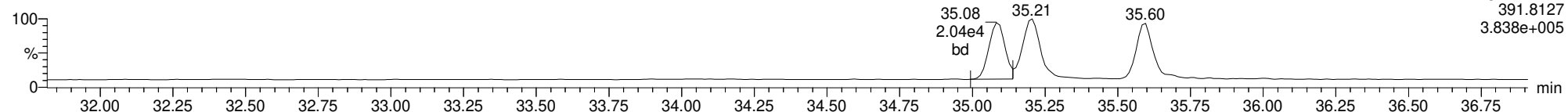
**123478-HxCDD**

22032306



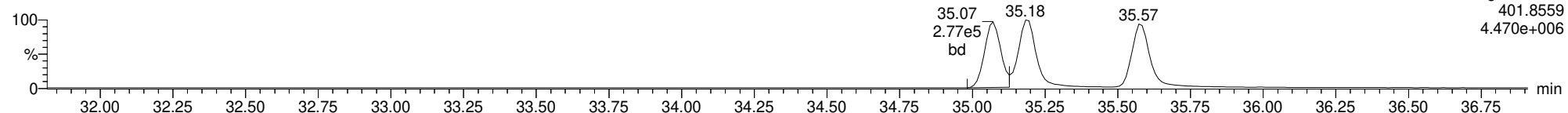
**123478-HxCDD**

22032306



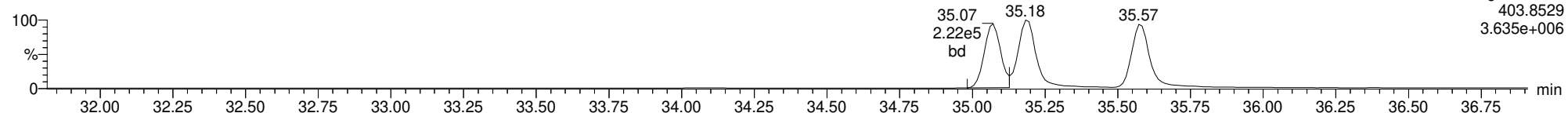
**13C-123478-HxCDD**

22032306



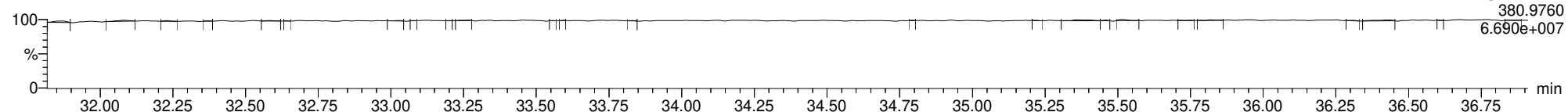
**13C-123478-HxCDD**

22032306



**FUNCTION3 PFK**

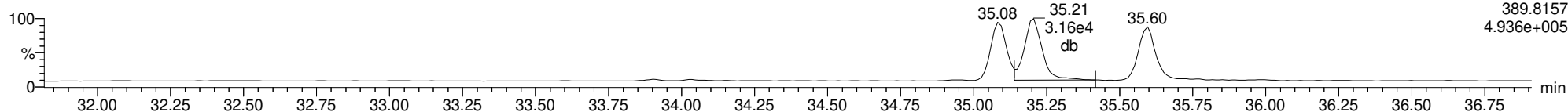
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

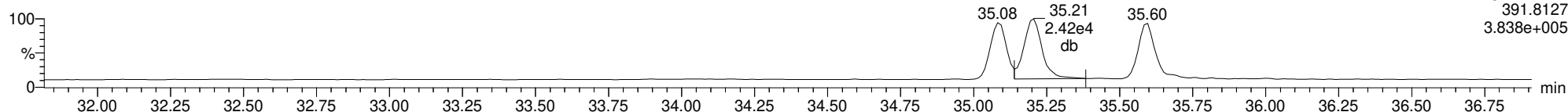
123678-HxCDD

22032306



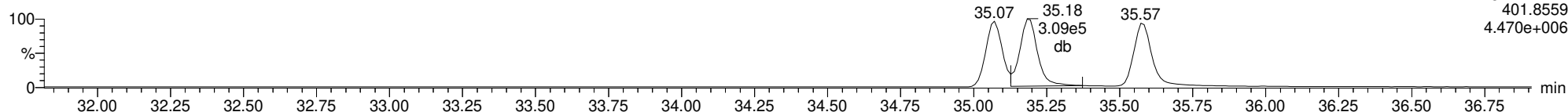
123678-HxCDD

22032306



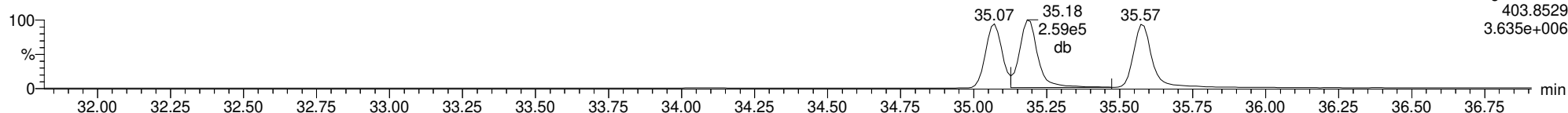
13C-123678-HxCDD

22032306



13C-123678-HxCDD

22032306

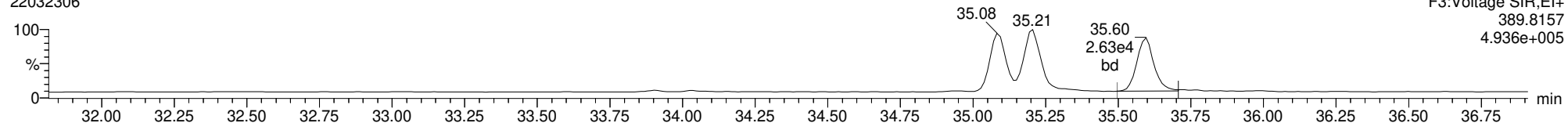




ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

123789-HxCDD

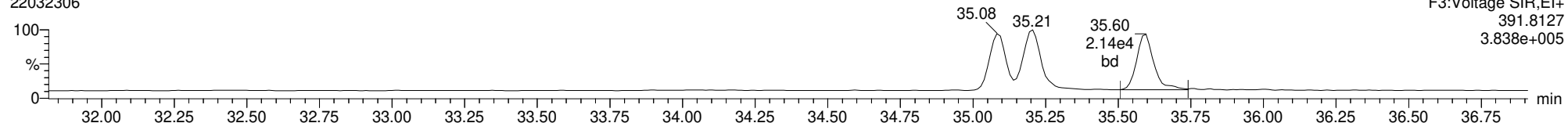
22032306



F3:Voltage SIR,El+  
389.8157  
4.936e+005

123789-HxCDD

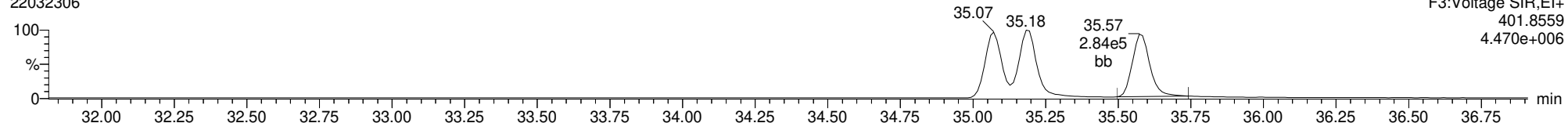
22032306



F3:Voltage SIR,El+  
391.8127  
3.838e+005

13C-123789-HxCDD

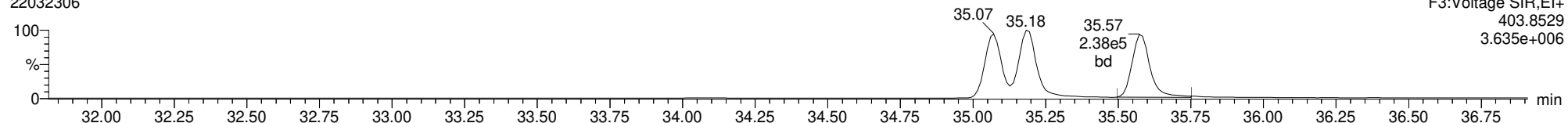
22032306



F3:Voltage SIR,El+  
401.8559  
4.470e+006

13C-123789-HxCDD

22032306

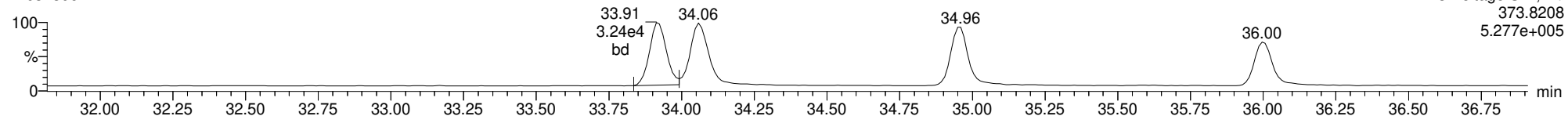


F3:Voltage SIR,El+  
403.8529  
3.635e+006

ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

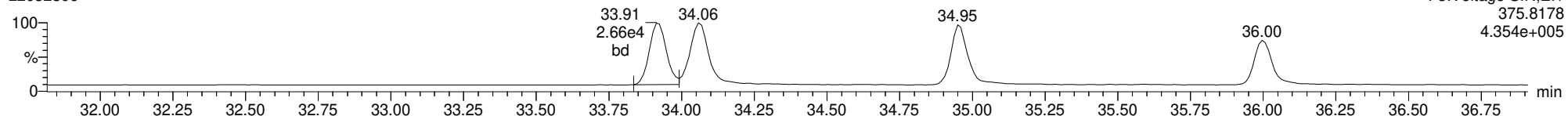
**123478-HxCDF**

22032306



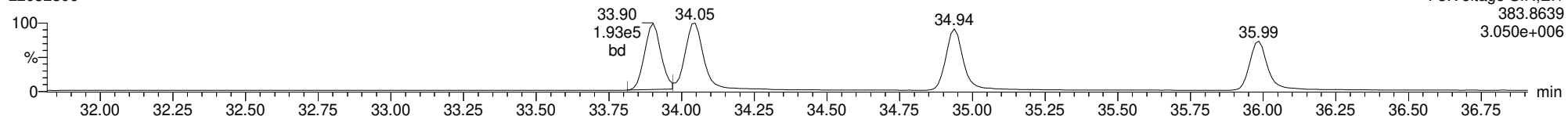
**123478-HxCDF**

22032306



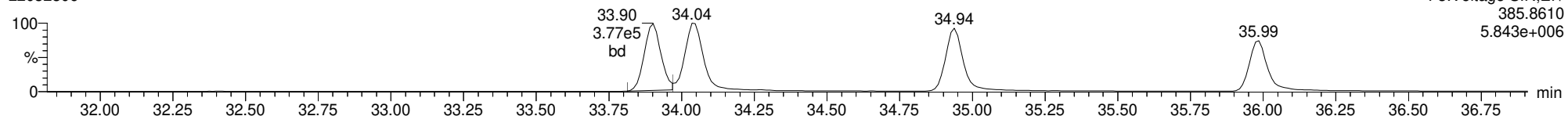
**13C-123478-HxCDF**

22032306



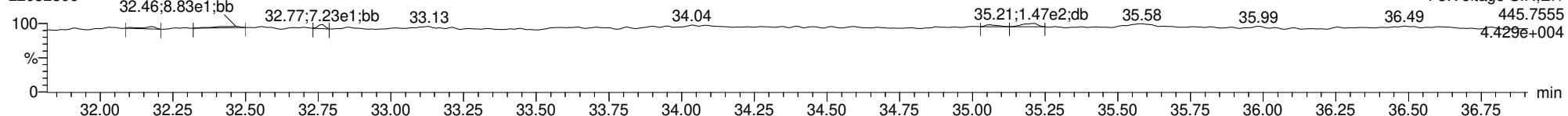
**13C-123478-HxCDF**

22032306



**FUNCTION3 OGDPE**

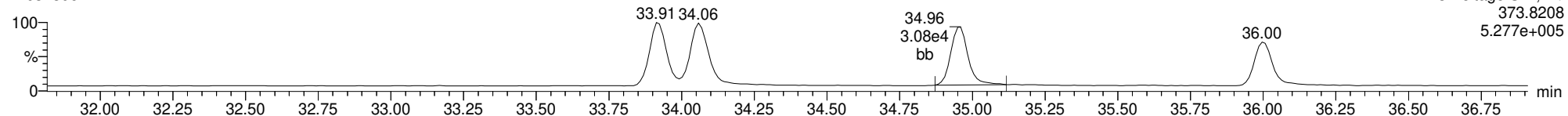
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

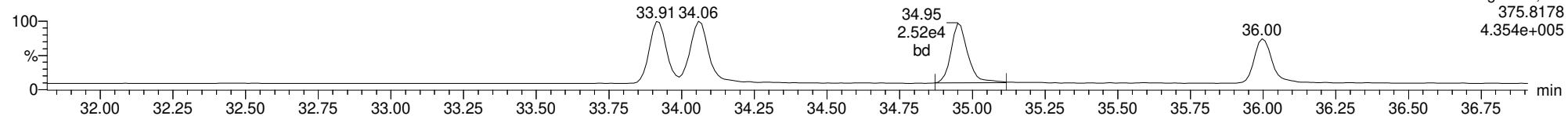
**234678-HxCDF**

22032306



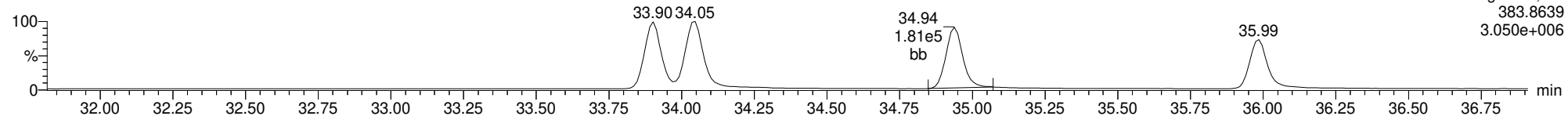
**234678-HxCDF**

22032306



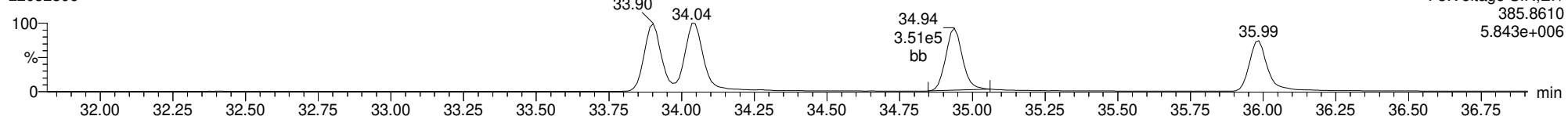
**13C-234678-HxCDF**

22032306



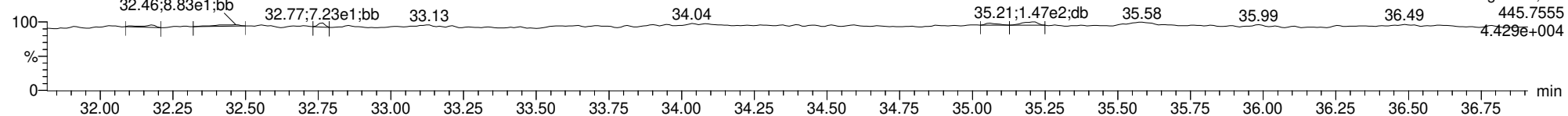
**13C-234678-HxCDF**

22032306



**FUNCTION3 OGDPE**

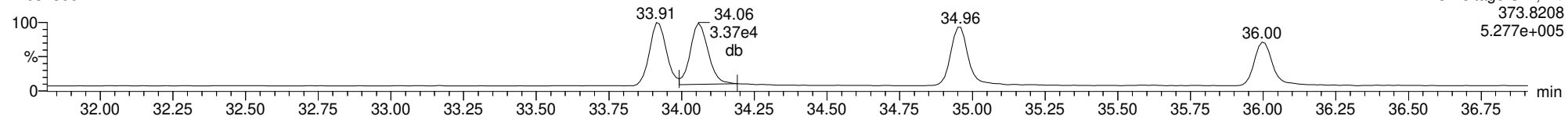
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

**123678-HxCDF**

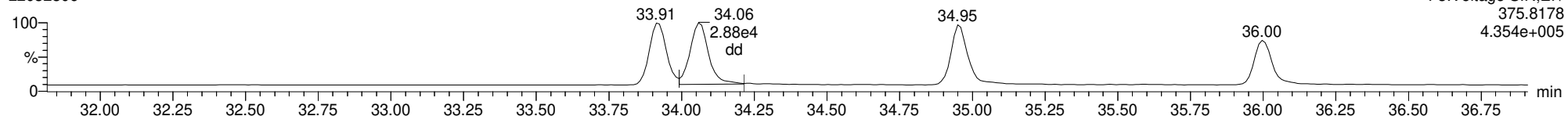
22032306



F3:Voltage SIR,El+  
373.8208  
5.277e+005

**123678-HxCDF**

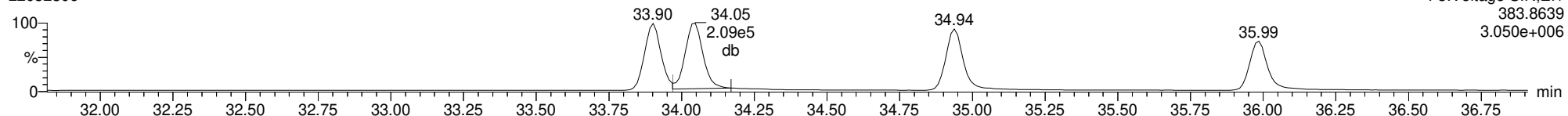
22032306



F3:Voltage SIR,El+  
375.8178  
4.354e+005

**13C-123678-HxCDF**

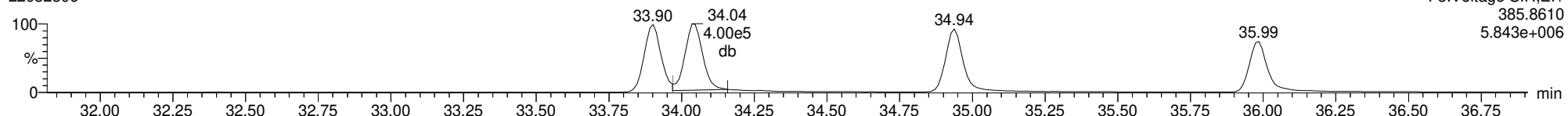
22032306



F3:Voltage SIR,El+  
383.8639  
3.050e+006

**13C-123678-HxCDF**

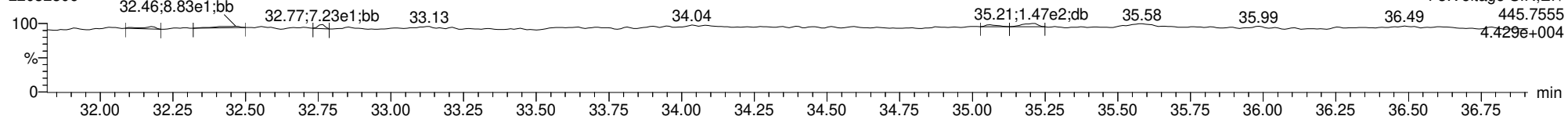
22032306



F3:Voltage SIR,El+  
385.8610  
5.843e+006

**FUNCTION3 OGDPE**

22032306

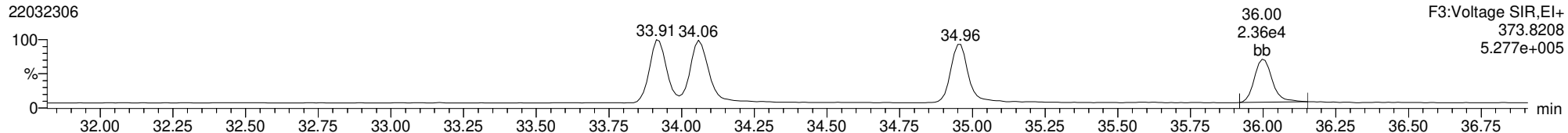


F3:Voltage SIR,El+  
445.7555  
4.429e+004

ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

**123789-HxCDF**

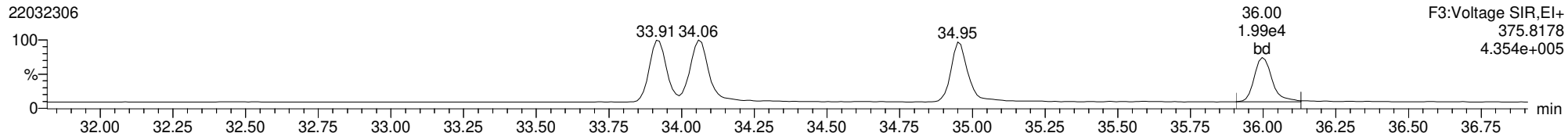
22032306



F3:Voltage SIR,El+  
373.8208  
5.277e+005

**123789-HxCDF**

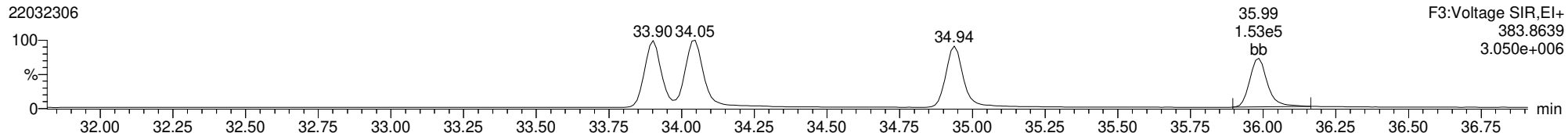
22032306



F3:Voltage SIR,El+  
375.8178  
4.354e+005

**13C-123789-HxCDF**

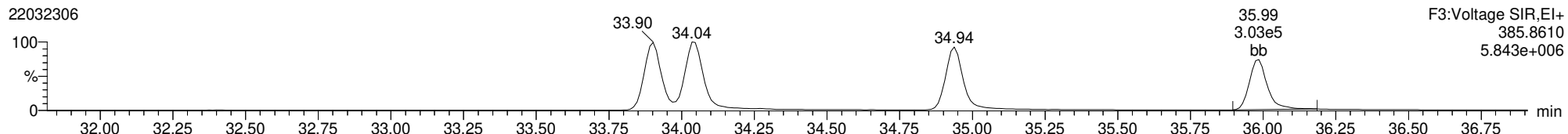
22032306



F3:Voltage SIR,El+  
383.8639  
3.050e+006

**13C-123789-HxCDF**

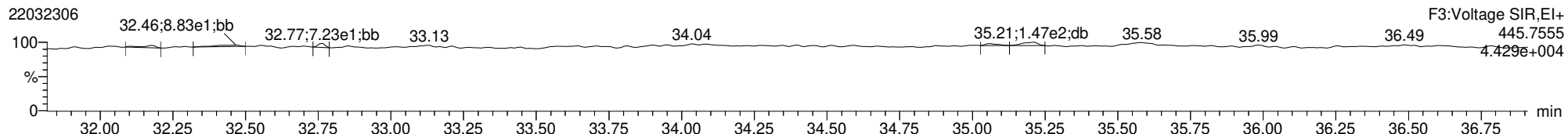
22032306



F3:Voltage SIR,El+  
385.8610  
5.843e+006

**FUNCTION3 OGDPE**

22032306

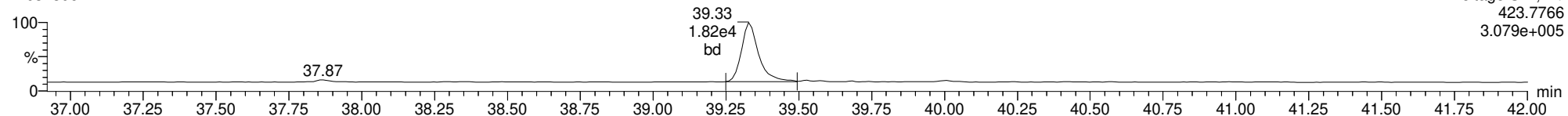


F3:Voltage SIR,El+  
445.7555  
4.429e+004

ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

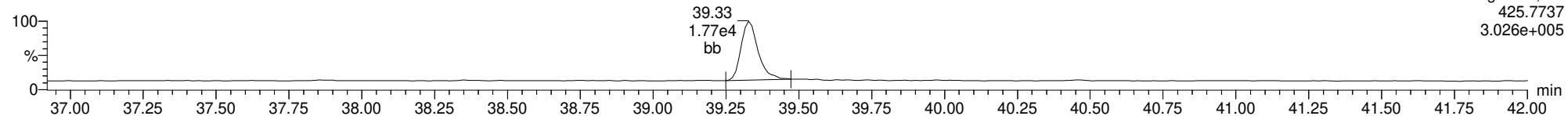
1234678-HpCDD

22032306



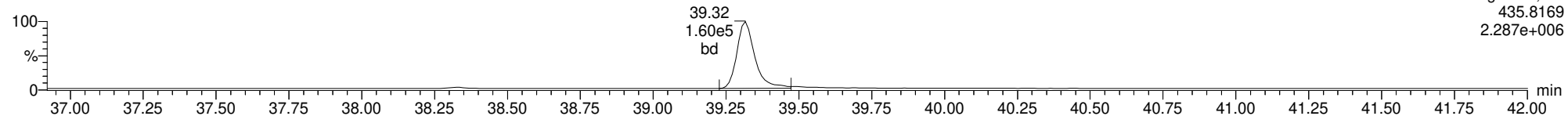
1234678-HpCDD

22032306



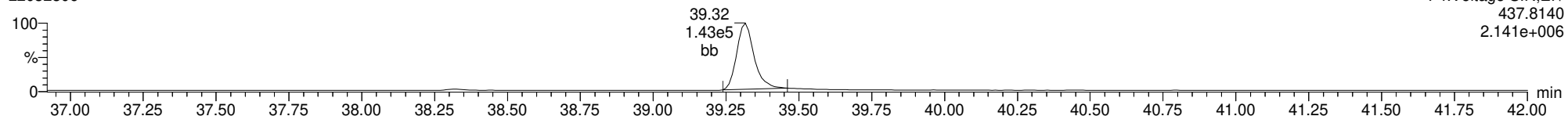
13C-1234678-HpCDD

22032306



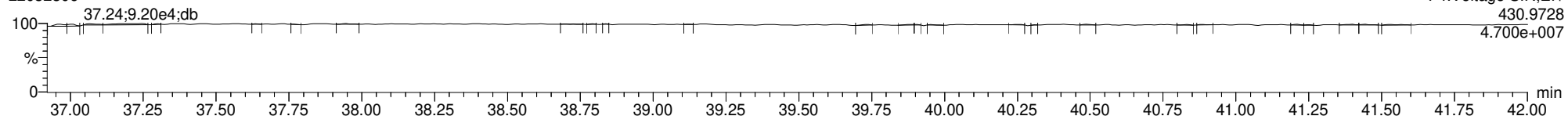
13C-1234678-HpCDD

22032306



FUNCTION4 PFK

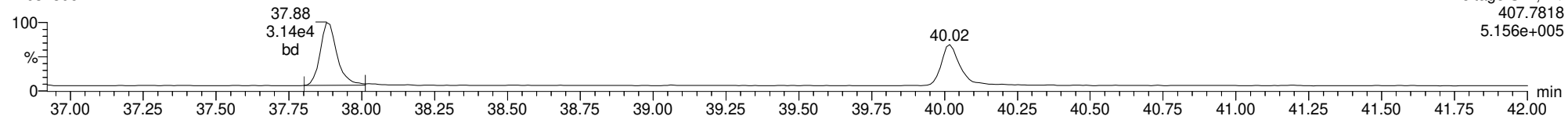
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

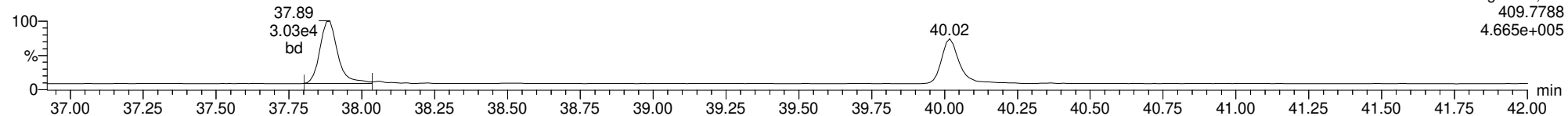
1234678-HpCDF

22032306



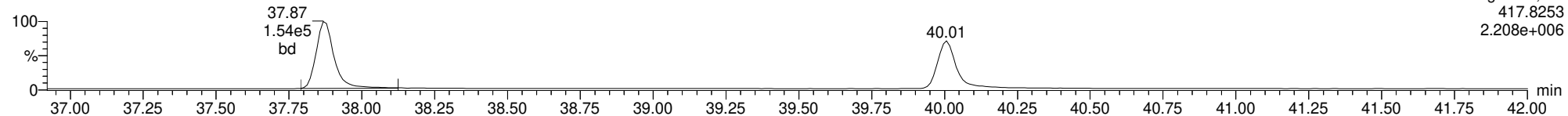
1234678-HpCDF

22032306



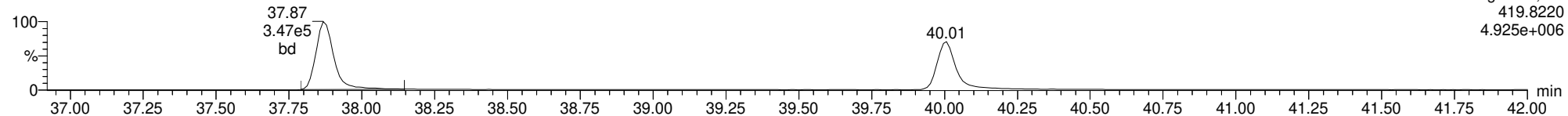
13C-1234678-HpCDF

22032306



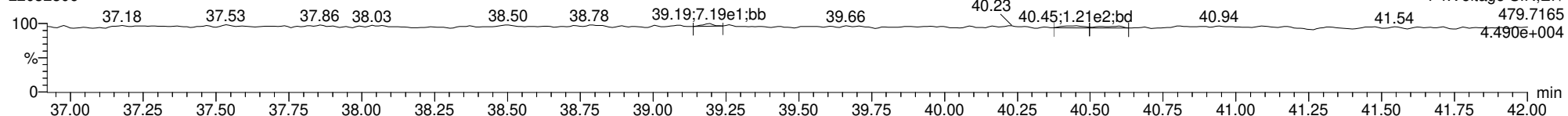
13C-1234678-HpCDF

22032306



FUNCTION4 NCDPE

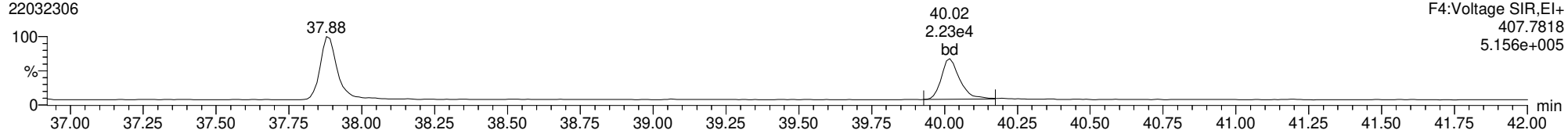
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

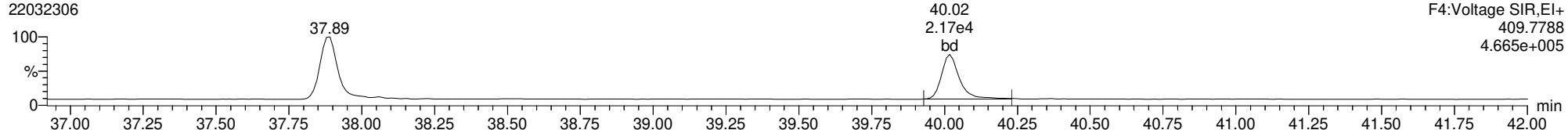
22032306



F4:Voltage SIR,El+  
407.7818  
5.156e+005

1234789-HpCDF

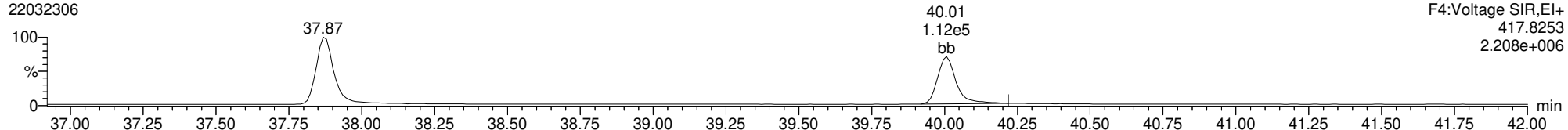
22032306



F4:Voltage SIR,El+  
409.7788  
4.665e+005

13C-1234789-HpCDF

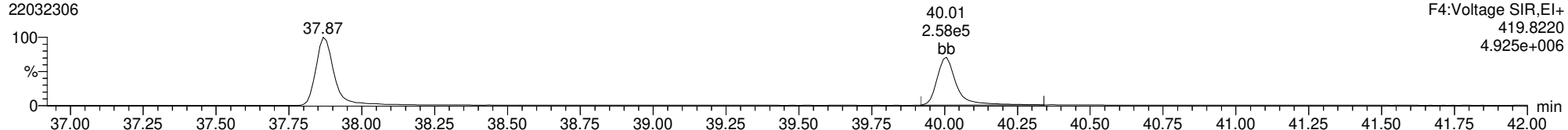
22032306



F4:Voltage SIR,El+  
417.8253  
2.208e+006

13C-1234789-HpCDF

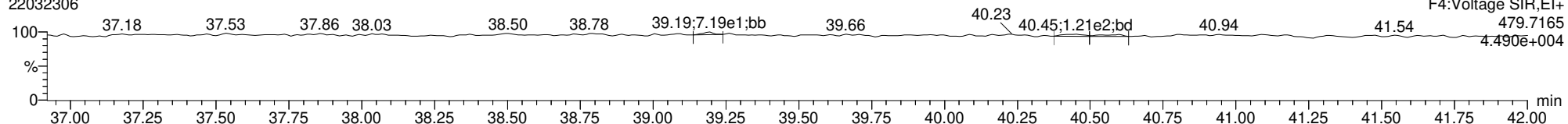
22032306



F4:Voltage SIR,El+  
419.8220  
4.925e+006

FUNCTION4 NCDPE

22032306



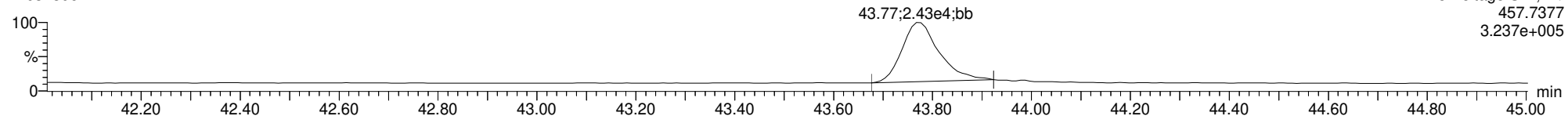
F4:Voltage SIR,El+  
479.7165  
4.490e+004



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

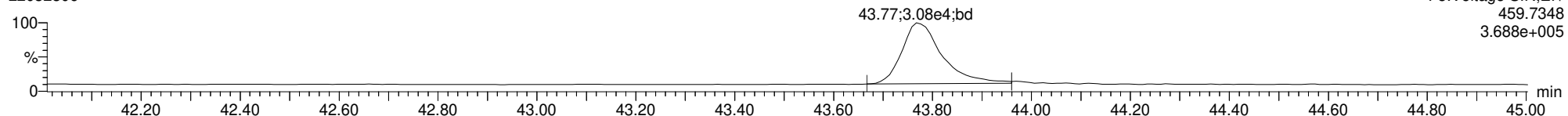
**OCDD**

22032306



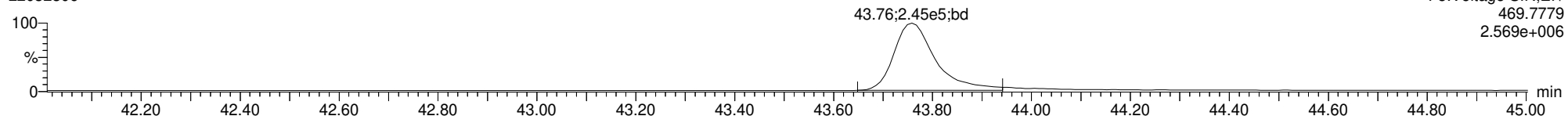
**OCDD**

22032306



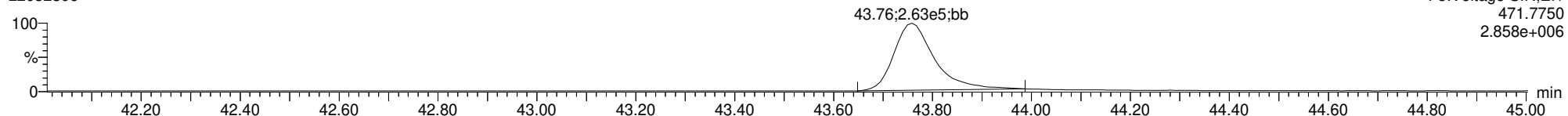
**13C-OCDD**

22032306



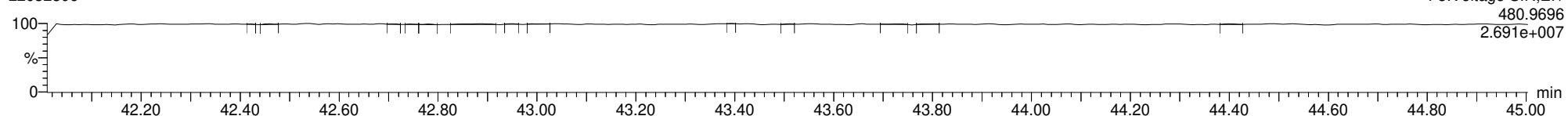
**13C-OCDD**

22032306



**FUNCTION5 PFK**

22032306

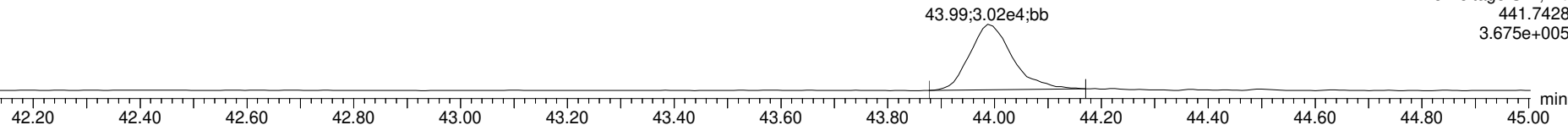


ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

**OCDF**

22032306

100  
%  
0

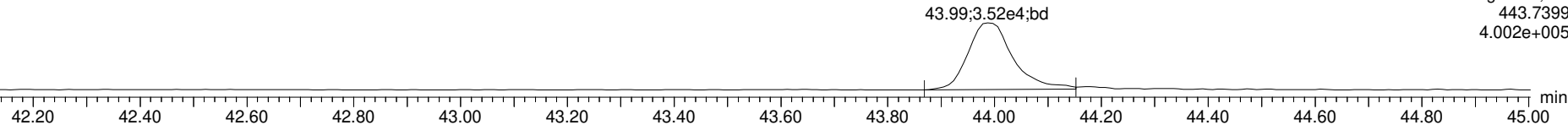


F5:Voltage SIR,El+  
441.7428  
3.675e+005

**OCDF**

22032306

100  
%  
0

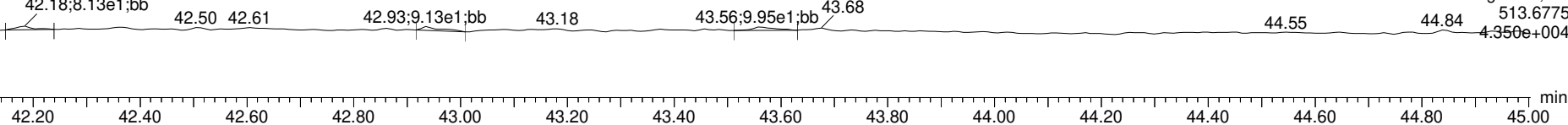


F5:Voltage SIR,El+  
443.7399  
4.002e+005

**FUNCTION5 DCDPE**

22032306

100  
%  
0

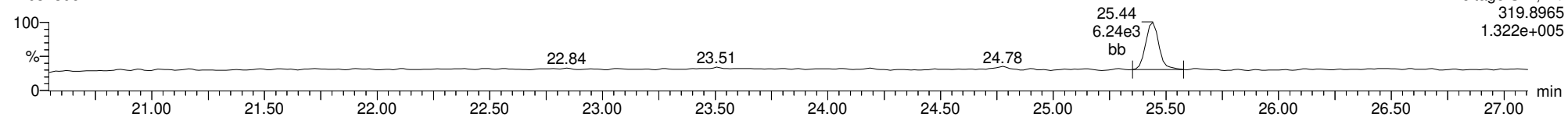


F5:Voltage SIR,El+  
513.6775  
4.350e+004

ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

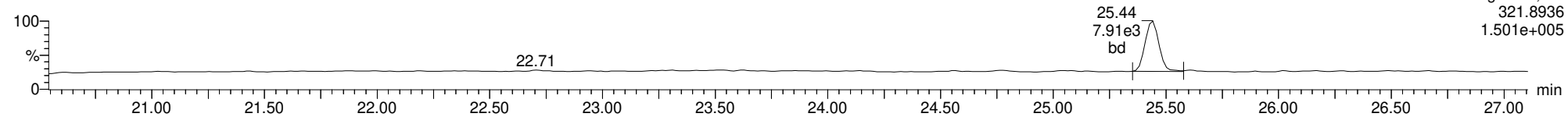
**Total-tetradoxins**

22032306



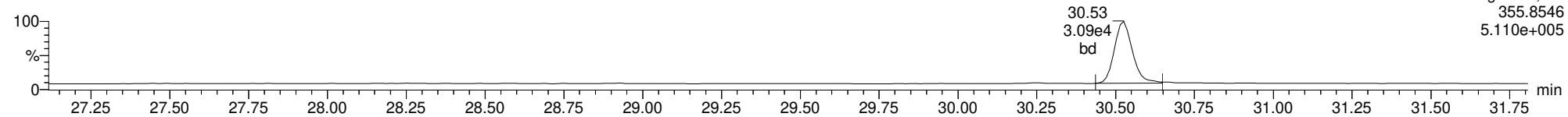
**Total-tetradoxins**

22032306



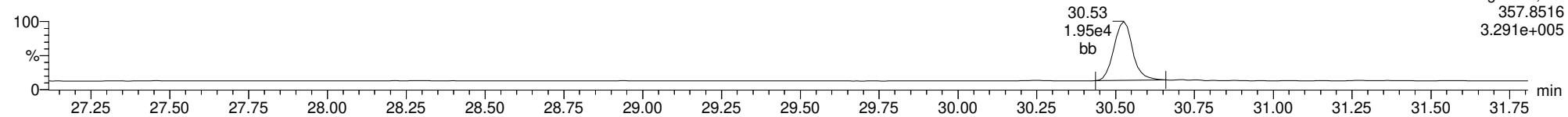
**Total-pentadoxins**

22032306



**Total-pentadoxins**

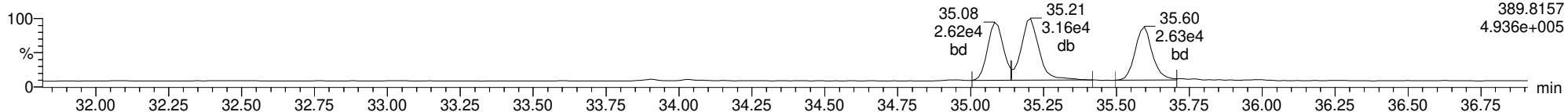
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

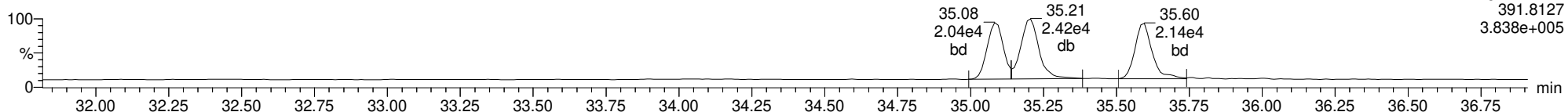
**Total-hexadioxins**

22032306



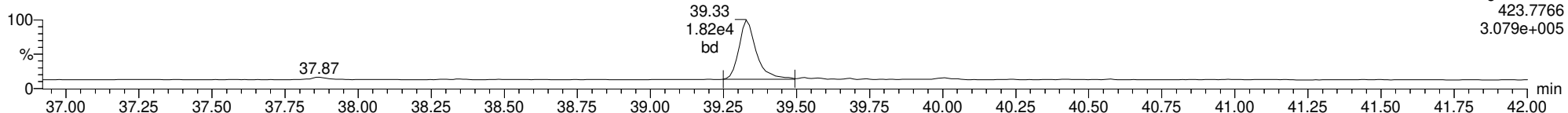
**Total-hexadioxins**

22032306



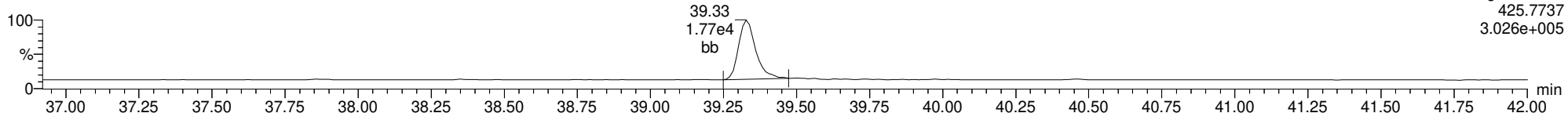
**Total-heptadioxins**

22032306



**Total-heptadioxins**

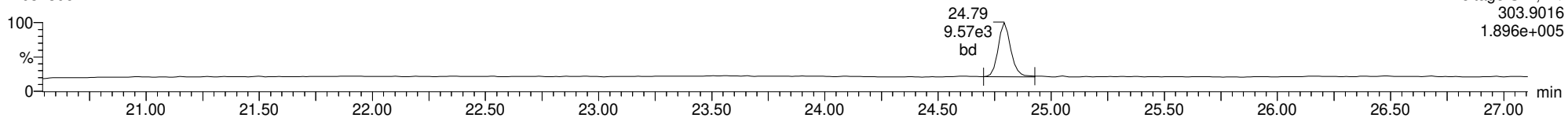
22032306



ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

**Total-tetrafurans**

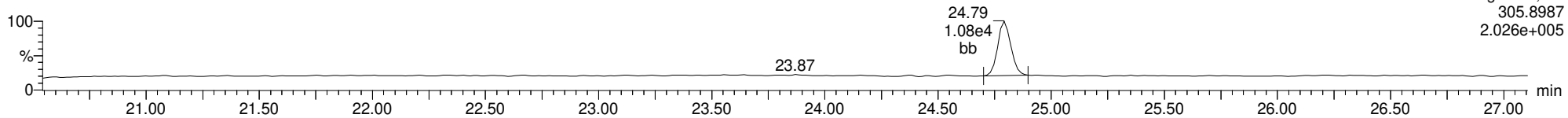
22032306



F1:Voltage SIR,El+  
303.9016  
1.896e+005

**Total-tetrafurans**

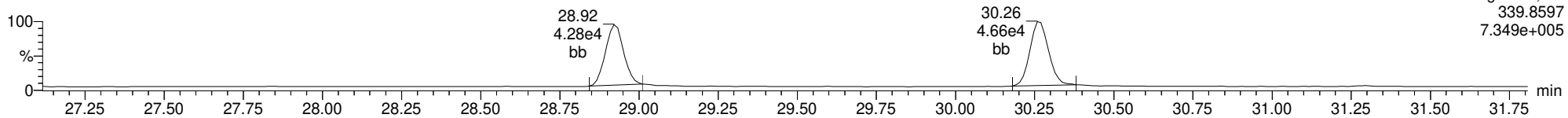
22032306



F1:Voltage SIR,El+  
305.8987  
2.026e+005

**Total-pentafurans**

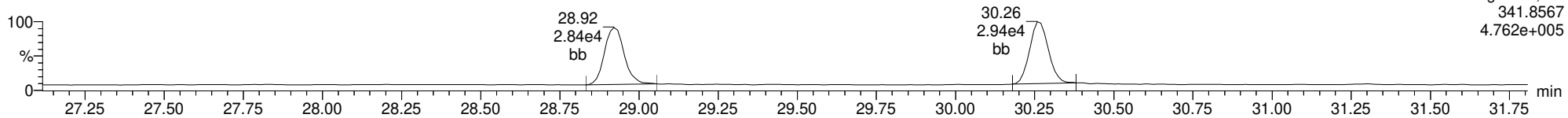
22032306



F2:Voltage SIR,El+  
339.8597  
7.349e+005

**Total-pentafurans**

22032306

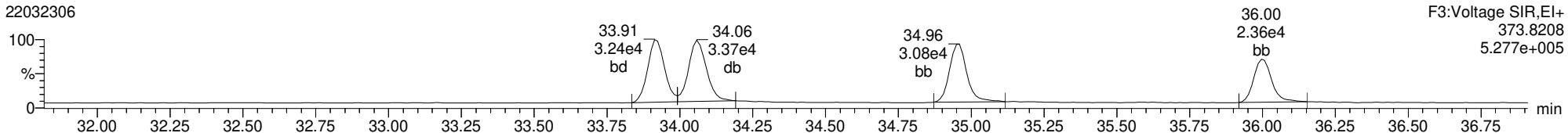


F2:Voltage SIR,El+  
341.8567  
4.762e+005

ID: CS2CH, Name: 22032306, Date: 23-Mar-2022, Time: 13:37:14, Conditions: AUTOSPEC01, User: pk

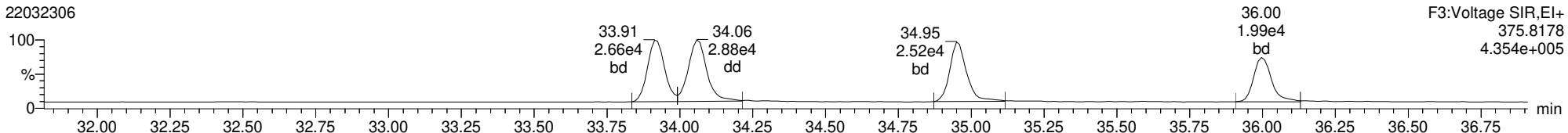
**Total-hexafurans**

22032306



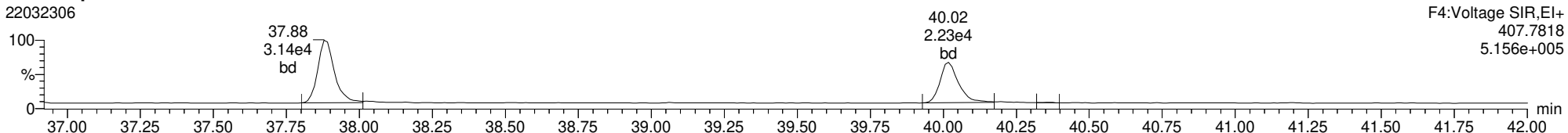
**Total-hexafurans**

22032306



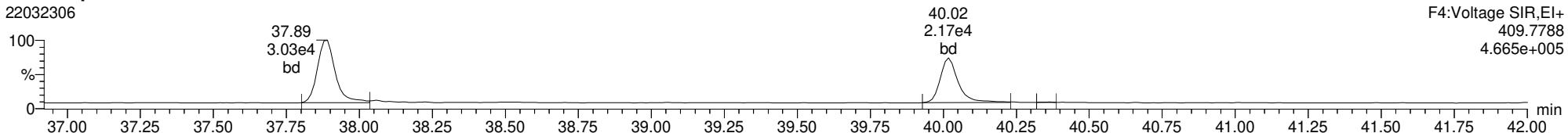
**Total-heptafurans**

22032306



**Total-heptafurans**

22032306



Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:47 Pacific Daylight Time

**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**  
**Calibration: 24 Mar 2022 08:56:14**

**ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	24.792	1.001	4.014e4	5.363e4	0.985	0.748	0.770	938	1534	5.82e5	7.65e5	620.5	498.6	NO	bb	bd	10.070
12378-PeCDF	28.910	1.000	2.099e5	1.359e5	0.906	1.545	1.550	2330	1913	3.03e6	1.97e6	1302.4	1028.7	NO	bb	bb	49.740
23478-PeCDF	30.258	1.001	2.131e5	1.404e5	1.008	1.518	1.550	2330	1913	3.14e6	2.06e6	1347.9	1077.4	NO	bb	bb	47.672
123478-HxCDF	33.913	1.001	1.503e5	1.231e5	1.045	1.221	1.240	2375	1636	2.21e6	1.82e6	929.6	1111.4	NO	bd	bd	49.469
234678-HxCDF	34.949	1.000	1.425e5	1.167e5	1.101	1.221	1.240	2375	1636	2.10e6	1.71e6	883.0	1044.1	NO	bb	bb	48.293
123678-HxCDF	34.058	1.001	1.598e5	1.308e5	1.019	1.222	1.240	2375	1636	2.26e6	1.81e6	949.9	1105.0	NO	db	db	50.149
123789-HxCDF	35.996	1.001	1.101e5	9.359e4	0.992	1.177	1.240	2375	1636	1.59e6	1.30e6	668.5	794.2	NO	bb	bd	49.700
1234678-HpCDF	37.879	1.000	1.334e5	1.314e5	1.243	1.015	1.050	1962	2111	2.07e6	2.02e6	1053.3	955.2	NO	bb	bb	47.884
1234789-HpCDF	40.019	1.000	1.049e5	1.023e5	1.192	1.025	1.050	1962	2111	1.40e6	1.39e6	714.8	659.4	NO	bd	bb	53.364
OCDF	43.988	1.005	1.456e5	1.496e5	1.303	0.973	0.890	2368	2536	1.54e6	1.67e6	651.1	660.1	NO	bd	bb	93.760
2378-TCDD	25.427	1.001	2.989e4	3.755e4	1.168	0.796	0.770	1967	1322	4.34e5	5.65e5	220.6	427.4	NO	bb	bb	9.241
12378-PeCDD	30.515	1.000	1.487e5	9.233e4	1.152	1.611	1.550	1827	1600	2.13e6	1.34e6	1168.3	834.9	NO	bb	bb	50.537
123478-HxCDD	35.083	1.001	1.169e5	9.779e4	0.934	1.195	1.240	2322	2225	1.82e6	1.51e6	783.1	679.2	NO	bd	bd	49.830
123678-HxCDD	35.194	1.000	1.357e5	1.130e5	0.950	1.201	1.240	2322	2225	1.84e6	1.55e6	791.0	696.5	NO	db	dd	52.708
123789-HxCDD	35.584	1.011	1.102e5	9.468e4	0.873	1.164	1.240	2322	2225	1.64e6	1.39e6	708.3	623.1	NO	bb	bd	49.004
1234678-HpCDD	39.328	1.000	8.796e4	8.006e4	1.268	1.099	1.050	1542	2020	1.24e6	1.15e6	800.8	568.7	NO	bd	bb	47.696
OCDD	43.768	1.000	1.212e5	1.386e5	1.089	0.874	0.890	1644	1275	1.23e6	1.44e6	750.0	1128.7	NO	bb	bd	98.688
13C-2378-TCDF	24.762	1.007	4.223e5	5.234e5	1.751	0.807	0.770	3348	2034	6.09e6	7.68e6	1817.5	3777.8	NO	bb	bb	97.585
13C-12378-PeCDF	28.899	1.175	4.624e5	3.054e5	1.442	1.514	1.550	3240	2823	6.68e6	4.23e6	2063.1	1499.3	NO	bb	bd	96.235
13C-23478-PeCDF	30.236	1.229	4.529e5	2.832e5	1.366	1.599	1.550	3240	2823	6.52e6	4.17e6	2013.6	1478.3	NO	bd	bb	97.407
13C-123478-HxCDF	33.891	0.953	1.786e5	3.500e5	1.095	0.510	0.510	1530	2898	2.62e6	5.12e6	1712.7	1767.3	NO	bd	bd	102.597
13C-123678-HxCDF	34.036	0.957	1.934e5	3.750e5	1.168	0.516	0.510	1530	2898	2.78e6	5.47e6	1815.7	1888.0	NO	db	db	103.433
13C-234678-HxCDF	34.938	0.982	1.740e5	3.135e5	1.023	0.555	0.510	1530	2898	2.40e6	4.67e6	1571.8	1613.3	NO	bd	bb	101.283
13C-123789-HxCDF	35.974	1.011	1.403e5	2.728e5	0.879	0.514	0.510	1530	2898	2.05e6	3.95e6	1340.7	1364.0	NO	bb	bb	99.891
13C-1234678-HpCDF	37.868	1.064	1.352e5	3.097e5	0.925	0.437	0.440	1998	2621	1.98e6	4.58e6	993.3	1746.2	NO	bb	bd	102.141
13C-1234789-HpCDF	40.007	1.125	1.045e5	2.212e5	0.715	0.472	0.440	1998	2621	1.39e6	3.06e6	695.4	1168.1	NO	bd	bb	96.804
13C-1234-TCDD	24.596	0.000	2.421e5	3.112e5	1.000	0.778	0.770	2467	1560	3.63e6	4.75e6	1472.1	3046.8	NO	bb	bb	100.000
13C-2378-TCDD	25.412	1.033	2.716e5	3.533e5	1.081	0.769	0.770	2467	1560	3.92e6	5.10e6	1588.6	3266.7	NO	bb	bb	104.426
13C-12378-PeCDD	30.504	1.240	2.545e5	1.596e5	0.776	1.594	1.550	1159	1118	3.64e6	2.30e6	3139.8	2055.2	NO	bb	bb	96.390
13C-123478-HxCDD	35.061	0.986	2.560e5	2.053e5	0.975	1.247	1.240	2131	1907	3.86e6	3.08e6	1809.2	1614.3	NO	bd	bd	100.546
13C-123678-HxCDD	35.183	0.989	2.745e5	2.219e5	1.067	1.237	1.240	2131	1907	4.12e6	3.22e6	1933.4	1687.3	NO	db	db	98.918
13C-1234678-HpCDD	39.317	1.105	1.486e5	1.292e5	0.582	1.150	1.050	1257	1490	1.97e6	1.83e6	1569.1	1226.6	NO	bb	bb	101.497
13C-OCDD	43.759	1.230	2.394e5	2.438e5	0.509	0.982	0.890	2156	2029	2.37e6	2.58e6	1101.6	1273.2	NO	bd	bb	201.921
13C-123789-HxCDD	35.573	0.000	2.596e5	2.110e5	1.000	1.230	1.240	2131	1907	3.84e6	3.06e6	1800.0	1607.5	NO	bb	bb	100.000
37CL-2378-TCDD	25.427	1.034	6.080e4		1.120			1728		8.88e5		514.0			bb		9.810

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
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**ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.315	0.861	5.345e4	6.951e4	1.300	0.769	0.770	938	1534	7.84e5	1.04e6	835.4	679.7	NO	bb	bb	10.000
1289-TCDF	26.259	1.061	3.628e4	5.179e4	0.931	0.701	0.770	938	1534	5.41e5	7.31e5	576.4	476.9	NO	bb	db	10.000
13468-PECDF	26.138	0.904	3.032e5	1.991e5	1.308	1.522	1.550	620	1028	4.38e6	2.86e6	7069.8	2781.2	NO	bb	bb	50.000
12389-PECDF	31.272	1.082	1.969e5	1.333e5	0.860	1.477	1.550	2330	1913	2.77e6	1.82e6	1187.6	953.6	NO	bb	bd	50.000
123468-HXCDF	32.208	0.950	1.669e5	1.387e5	1.156	1.203	1.240	2375	1636	2.44e6	2.00e6	1027.1	1225.2	NO	bb	bb	50.000
1368-TCDD	22.584	0.889	3.187e4	4.004e4	1.151	0.796	0.770	1967	1322	4.85e5	6.23e5	246.4	471.1	NO	bb	bb	10.000
1289-TCDD	26.017	1.024	2.654e4	3.282e4	0.950	0.808	0.770	1967	1322	3.95e5	4.69e5	200.8	355.1	NO	bb	bb	10.000
12479-PECDD	27.808	0.912	2.742e5	1.739e5	2.164	1.576	1.550	1827	1600	2.58e6	1.63e6	1412.5	1019.4	NO	bb	bb	50.000
12389-PECDD	30.905	1.013	1.735e5	1.103e5	1.371	1.572	1.550	1827	1600	2.41e6	1.53e6	1318.4	955.3	NO	bd	bd	50.000
124679-HXCDD	33.011	0.942	1.454e5	1.204e5	1.153	1.207	1.240	2322	2225	2.08e6	1.70e6	897.1	764.8	NO	bb	bd	50.000
1234679-HPCDD	38.336	0.975	1.048e5	9.985e4	1.473	1.050	1.050	1542	2020	1.54e6	1.46e6	996.9	720.9	NO	bd	bd	50.000
Total-tetrafurans			1.299e5		1.072			938		1.91e6							30.070
Total-penta1			3.032e5					620		4.38e6							50.000
Total-pentafurans			6.568e5		0.924			2330		9.49e6							156.098
Total-hexafurans			7.296e5		1.063			2375		1.06e7							247.611
Total-heptafurans			2.383e5		1.218			1962		3.47e6							101.248
Total-Furans			2.203e6		1.090			938		3.14e7							678.787
Total-tetradoxins			1.526e5		1.090			1967		2.07e6							50.467
Total-pentadoxins			5.963e5		1.562			1827		7.12e6							150.537
Total-hexadoxins			5.082e5		0.978			2322		7.38e6							201.541
Total-heptadoxins			1.928e5		1.371			1542		2.77e6							97.696
Total-Dioxins			1.571e6		1.207			1967		2.06e7							598.930
Total-TEQ			3.774e6					1967		5.20e7							1277.717
FUNCTION1 PFK			1.202e6					517378		2.27e7							
FUNCTION2 PFK			7.301e5					520470		1.70e7							0.000
FUNCTION3 PFK			7.266e5					464722		2.18e7							0.000
FUNCTION4 PFK			3.457e5					351927		9.58e6							
FUNCTION5 PFK			1.022e5					179470		3.92e6							
FUNCTION1 HXCDPE			1.820e3					765		2.43e4							0.000
FUNCTION1 HPCDPE			6.407e2					774		1.05e4							0.000
FUNCTION2 HPCDPE			7.984e2					944		1.56e4							0.000
FUNCTION3 OCDPE			5.355e2					730		9.11e3							0.000
FUNCTION4 NCDPE			6.403e2					828		1.32e4							0.000
FUNCTION5 DCDPE			0.000e0					763		0.00e0							



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:47 Pacific Daylight Time

**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**

**Calibration: 24 Mar 2022 08:56:14**

**ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.26	3.628e4	5.179e4	0.931	0.70	0.77	576.4	YES	NO	bb	db	10.000
2	2378-TCDF	24.79	4.014e4	5.363e4	0.985	0.75	0.77	620.5	YES	NO	bb	bd	10.070
3	1368-TCDF	21.31	5.345e4	6.951e4	1.300	0.77	0.77	835.4	YES	NO	bb	bb	10.000

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.14	3.032e5	1.991e5	1.308	1.52	1.55	7069.8	YES	NO	bb	bb	50.000

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	31.27	1.969e5	1.333e5	0.860	1.48	1.55	1187.6	YES	NO	bb	bd	50.000
2	23478-PeCDF	30.26	2.131e5	1.404e5	1.008	1.52	1.55	1347.9	YES	NO	bb	bb	47.672
3	12378-PeCDF	28.91	2.099e5	1.359e5	0.906	1.54	1.55	1302.4	YES	NO	bb	bb	49.740
4	Total-pentafurans	27.77	3.679e4	2.359e4	0.924	1.56	1.55	236.2	YES	NO	bb	bb	8.687

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HxCDF	32.21	1.669e5	1.387e5	1.156	1.20	1.24	1027.1	YES	NO	bb	bb	50.000
2	123789-HxCDF	36.00	1.101e5	9.359e4	0.992	1.18	1.24	668.5	YES	NO	bb	bd	49.700
3	234678-HxCDF	34.95	1.425e5	1.167e5	1.101	1.22	1.24	883.0	YES	NO	bb	bb	48.293
4	123678-HxCDF	34.06	1.598e5	1.308e5	1.019	1.22	1.24	949.9	YES	NO	db	db	50.149
5	123478-HxCDF	33.91	1.503e5	1.231e5	1.045	1.22	1.24	929.6	YES	NO	bd	bd	49.469

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.02	1.049e5	1.023e5	1.192	1.03	1.05	714.8	YES	NO	bd	bb	53.364
2	1234678-HpCDF	37.88	1.334e5	1.314e5	1.243	1.02	1.05	1053.3	YES	NO	bb	bb	47.884

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323\CIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:47 Pacific Daylight Time

**ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.26	3.628e4	5.179e4	0.931	0.70	0.77	576.4	YES	NO	bb	db	10.000
2	2378-TCDF	24.79	4.014e4	5.363e4	0.985	0.75	0.77	620.5	YES	NO	bb	bd	10.070
3	1368-TCDF	21.31	5.345e4	6.951e4	1.300	0.77	0.77	835.4	YES	NO	bb	bb	10.000
4	12389-PECDF	31.27	1.969e5	1.333e5	0.860	1.48	1.55	1187.6	YES	NO	bb	bd	50.000
5	23478-PeCDF	30.26	2.131e5	1.404e5	1.008	1.52	1.55	1347.9	YES	NO	bb	bb	47.672
6	12378-PeCDF	28.91	2.099e5	1.359e5	0.906	1.54	1.55	1302.4	YES	NO	bb	bb	49.740
7	Total-pentafurans	27.77	3.679e4	2.359e4	0.924	1.56	1.55	236.2	YES	NO	bb	bb	8.687
8	123468-HxCDF	32.21	1.669e5	1.387e5	1.156	1.20	1.24	1027.1	YES	NO	bb	bb	50.000
9	123789-HxCDF	36.00	1.101e5	9.359e4	0.992	1.18	1.24	668.5	YES	NO	bb	bd	49.700
10	234678-HxCDF	34.95	1.425e5	1.167e5	1.101	1.22	1.24	883.0	YES	NO	bb	bb	48.293
11	123678-HxCDF	34.06	1.598e5	1.308e5	1.019	1.22	1.24	949.9	YES	NO	db	db	50.149
12	123478-HxCDF	33.91	1.503e5	1.231e5	1.045	1.22	1.24	929.6	YES	NO	bd	bd	49.469
13	1234789-HpCDF	40.02	1.049e5	1.023e5	1.192	1.03	1.05	714.8	YES	NO	bd	bb	53.364
14	1234678-HpCDF	37.88	1.334e5	1.314e5	1.243	1.02	1.05	1053.3	YES	NO	bb	bb	47.884
15	OCDF	43.99	1.456e5	1.496e5	1.303	0.97	0.89	651.1	YES	NO	bd	bb	93.760
16	13468-PECDF	26.14	3.032e5	1.991e5	1.308	1.52	1.55	7069.8	YES	NO	bb	bb	50.000

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.02	2.654e4	3.282e4	0.950	0.81	0.77	200.8	YES	NO	bb	bb	10.000
2	2378-TCDD	25.43	2.989e4	3.755e4	1.168	0.80	0.77	220.6	YES	NO	bb	bb	9.241
3	Total-tetradoxins	25.09	4.830e4	5.971e4	1.090	0.81	0.77	266.4	YES	NO	bb	bb	15.866
4	Total-tetradoxins	24.76	4.754e2	5.427e2	1.090	0.88	0.77	4.0	YES	NO	db	db	0.150
5	Total-tetradoxins	24.61	1.554e4	1.993e4	1.090	0.78	0.77	115.2	YES	NO	bd	bd	5.211
6	1368-TCDD	22.58	3.187e4	4.004e4	1.151	0.80	0.77	246.4	YES	NO	bb	bb	10.000

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	27.81	2.742e5	1.739e5	2.164	1.58	1.55	1412.5	YES	NO	bb	bb	50.000
2	12389-PECDD	30.90	1.735e5	1.103e5	1.371	1.57	1.55	1318.4	YES	NO	bd	bd	50.000
3	12378-PeCDD	30.51	1.487e5	9.233e4	1.152	1.61	1.55	1168.3	YES	NO	bb	bb	50.537

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	33.01	1.454e5	1.204e5	1.153	1.21	1.24	897.1	YES	NO	bb	bd	50.000
2	123789-HxCDD	35.58	1.102e5	9.468e4	0.873	1.16	1.24	708.3	YES	NO	bb	bd	49.004
3	123678-HxCDD	35.19	1.357e5	1.130e5	0.950	1.20	1.24	791.0	YES	NO	db	dd	52.708
4	123478-HxCDD	35.08	1.169e5	9.779e4	0.934	1.20	1.24	783.1	YES	NO	bd	bd	49.830

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.33	8.796e4	8.006e4	1.268	1.10	1.05	800.8	YES	NO	bd	bb	47.696
2	1234679-HPCDD	38.34	1.048e5	9.985e4	1.473	1.05	1.05	996.9	YES	NO	bd	bd	50.000

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.02	2.654e4	3.282e4	0.950	0.81	0.77	200.8	YES	NO	bb	bb	10.000
2	2378-TCDD	25.43	2.989e4	3.755e4	1.168	0.80	0.77	220.6	YES	NO	bb	bb	9.241
3	Total-tetradiioxins	25.09	4.830e4	5.971e4	1.090	0.81	0.77	266.4	YES	NO	bb	bb	15.866
4	Total-tetradiioxins	24.76	4.754e2	5.427e2	1.090	0.88	0.77	4.0	YES	NO	db	db	0.150
5	Total-tetradiioxins	24.61	1.554e4	1.993e4	1.090	0.78	0.77	115.2	YES	NO	bd	bd	5.211
6	1368-TCDD	22.58	3.187e4	4.004e4	1.151	0.80	0.77	246.4	YES	NO	bb	bb	10.000
7	12479-PECDD	27.81	2.742e5	1.739e5	2.164	1.58	1.55	1412.5	YES	NO	bb	bb	50.000
8	12389-PECDD	30.90	1.735e5	1.103e5	1.371	1.57	1.55	1318.4	YES	NO	bd	bd	50.000
9	12378-PeCDD	30.51	1.487e5	9.233e4	1.152	1.61	1.55	1168.3	YES	NO	bb	bb	50.537
10	124679-HxCDD	33.01	1.454e5	1.204e5	1.153	1.21	1.24	897.1	YES	NO	bb	bd	50.000
11	123789-HxCDD	35.58	1.102e5	9.468e4	0.873	1.16	1.24	708.3	YES	NO	bb	bd	49.004
12	123678-HxCDD	35.19	1.357e5	1.130e5	0.950	1.20	1.24	791.0	YES	NO	db	dd	52.708
13	123478-HxCDD	35.08	1.169e5	9.779e4	0.934	1.20	1.24	783.1	YES	NO	bd	bd	49.830
14	1234678-HpCDD	39.33	8.796e4	8.006e4	1.268	1.10	1.05	800.8	YES	NO	bd	bb	47.696
15	1234679-HPCDD	38.34	1.048e5	9.985e4	1.473	1.05	1.05	996.9	YES	NO	bd	bd	50.000
16	OCDD	43.77	1.212e5	1.386e5	1.089	0.87	0.89	750.0	YES	NO	bb	bd	98.688

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.26	3.628e4	5.179e4	0.931	0.70	0.77	576.4	YES	NO	bb	db	10.000
2	2378-TCDF	24.79	4.014e4	5.363e4	0.985	0.75	0.77	620.5	YES	NO	bb	bd	10.070
3	1368-TCDF	21.31	5.345e4	6.951e4	1.300	0.77	0.77	835.4	YES	NO	bb	bb	10.000
4	12389-PECDF	31.27	1.969e5	1.333e5	0.860	1.48	1.55	1187.6	YES	NO	bb	bd	50.000
5	23478-PeCDF	30.26	2.131e5	1.404e5	1.008	1.52	1.55	1347.9	YES	NO	bb	bb	47.672
6	12378-PeCDF	28.91	2.099e5	1.359e5	0.906	1.54	1.55	1302.4	YES	NO	bb	bb	49.740
7	Total-pentafurans	27.77	3.679e4	2.359e4	0.924	1.56	1.55	236.2	YES	NO	bb	bb	8.687
8	123468-HxCDF	32.21	1.669e5	1.387e5	1.156	1.20	1.24	1027.1	YES	NO	bb	bb	50.000
9	123789-HxCDF	36.00	1.101e5	9.359e4	0.992	1.18	1.24	668.5	YES	NO	bb	bd	49.700
10	234678-HxCDF	34.95	1.425e5	1.167e5	1.101	1.22	1.24	883.0	YES	NO	bb	bb	48.293
11	123678-HxCDF	34.06	1.598e5	1.308e5	1.019	1.22	1.24	949.9	YES	NO	db	db	50.149
12	123478-HxCDF	33.91	1.503e5	1.231e5	1.045	1.22	1.24	929.6	YES	NO	bd	bd	49.469
13	1234789-HpCDF	40.02	1.049e5	1.023e5	1.192	1.03	1.05	714.8	YES	NO	bd	bb	53.364
14	1234678-HpCDF	37.88	1.334e5	1.314e5	1.243	1.02	1.05	1053.3	YES	NO	bb	bb	47.884
15	OCDF	43.99	1.456e5	1.496e5	1.303	0.97	0.89	651.1	YES	NO	bd	bb	93.760
16	13468-PECDF	26.14	3.032e5	1.991e5	1.308	1.52	1.55	7069.8	YES	NO	bb	bb	50.000
17	1289-TCDD	26.02	2.654e4	3.282e4	0.950	0.81	0.77	200.8	YES	NO	bb	bb	10.000
18	2378-TCDD	25.43	2.989e4	3.755e4	1.168	0.80	0.77	220.6	YES	NO	bb	bb	9.241
19	Total-tetradoxins	25.09	4.830e4	5.971e4	1.090	0.81	0.77	266.4	YES	NO	bb	bb	15.866
20	Total-tetradoxins	24.76	4.754e2	5.427e2	1.090	0.88	0.77	4.0	YES	NO	db	db	0.150
21	Total-tetradoxins	24.61	1.554e4	1.993e4	1.090	0.78	0.77	115.2	YES	NO	bd	bd	5.211
22	1368-TCDD	22.58	3.187e4	4.004e4	1.151	0.80	0.77	246.4	YES	NO	bb	bb	10.000
23	12479-PECDD	27.81	2.742e5	1.739e5	2.164	1.58	1.55	1412.5	YES	NO	bb	bb	50.000
24	12389-PECDD	30.90	1.735e5	1.103e5	1.371	1.57	1.55	1318.4	YES	NO	bd	bd	50.000
25	12378-PeCDD	30.51	1.487e5	9.233e4	1.152	1.61	1.55	1168.3	YES	NO	bb	bb	50.537
26	124679-HxCDD	33.01	1.454e5	1.204e5	1.153	1.21	1.24	897.1	YES	NO	bb	bd	50.000
27	123789-HxCDD	35.58	1.102e5	9.468e4	0.873	1.16	1.24	708.3	YES	NO	bb	bd	49.004
28	123678-HxCDD	35.19	1.357e5	1.130e5	0.950	1.20	1.24	791.0	YES	NO	db	dd	52.708
29	123478-HxCDD	35.08	1.169e5	9.779e4	0.934	1.20	1.24	783.1	YES	NO	bd	bd	49.830
30	1234678-HpCDD	39.33	8.796e4	8.006e4	1.268	1.10	1.05	800.8	YES	NO	bd	bb	47.696
31	1234679-HPCDD	38.34	1.048e5	9.985e4	1.473	1.05	1.05	996.9	YES	NO	bd	bd	50.000
32	OCDD	43.77	1.212e5	1.386e5	1.089	0.87	0.89	750.0	YES	NO	bb	bd	98.688

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.11	3.112e4					1.1	NO		bb		
2	FUNCTION1 PFK	22.92	2.169e4					1.4	NO		bb		
3	FUNCTION1 PFK	22.72	4.068e4					1.6	NO		bb		
4	FUNCTION1 PFK	22.36	2.316e4					0.7	NO		bb		
5	FUNCTION1 PFK	22.22	2.681e4					0.9	NO		bb		
6	FUNCTION1 PFK	21.65	6.930e3					0.6	NO		bb		
7	FUNCTION1 PFK	21.41	2.916e4					1.9	NO		db		
8	FUNCTION1 PFK	21.36	5.124e4					2.2	NO		dd		
9	FUNCTION1 PFK	21.30	4.276e4					1.7	NO		dd		
10	FUNCTION1 PFK	21.24	4.302e4					2.2	NO		dd		
11	FUNCTION1 PFK	21.19	1.030e5					2.6	NO		dd		
12	FUNCTION1 PFK	21.07	1.298e5					2.8	NO		dd		
13	FUNCTION1 PFK	20.98	6.587e4					2.8	NO		dd		
14	FUNCTION1 PFK	20.86	1.531e5					2.9	NO		bd		
15	FUNCTION1 PFK	20.75	3.529e4					1.4	NO		db		
16	FUNCTION1 PFK	20.71	1.153e4					1.1	NO		bd		
17	FUNCTION1 PFK	26.62	1.149e4					0.7	NO		db		
18	FUNCTION1 PFK	26.58	1.623e4					1.0	NO		bd		
19	FUNCTION1 PFK	26.50	5.698e3					0.5	NO		bb		
20	FUNCTION1 PFK	26.03	1.603e4					1.2	NO		bb		
21	FUNCTION1 PFK	25.97	5.279e4					2.0	NO		db		
22	FUNCTION1 PFK	25.90	5.413e4					2.1	NO		dd		
23	FUNCTION1 PFK	25.77	1.145e5					2.8	NO		bd		
24	FUNCTION1 PFK	25.31	9.286e3					0.7	NO		bb		
25	FUNCTION1 PFK	25.23	1.689e4					1.1	NO		bb		
26	FUNCTION1 PFK	25.17	2.145e4					0.6	NO		bb		
27	FUNCTION1 PFK	24.38	3.716e4					1.5	NO		bb		
28	FUNCTION1 PFK	24.31	2.360e4					1.3	NO		bb		
29	FUNCTION1 PFK	23.33	7.848e3					0.5	NO		bb		

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**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	27.21	1.694e5					4.8	YES		db		0.000
2	FUNCTION2 PFK	27.15	1.300e5					5.9	YES		bd		0.000
3	FUNCTION2 PFK	30.87	7.096e3					0.7	NO		bb		0.000
4	FUNCTION2 PFK	30.68	2.810e4					1.7	NO		bb		0.000
5	FUNCTION2 PFK	30.61	2.851e4					1.3	NO		db		0.000
6	FUNCTION2 PFK	30.57	4.348e4					1.8	NO		dd		0.000
7	FUNCTION2 PFK	30.50	3.134e4					1.8	NO		dd		0.000
8	FUNCTION2 PFK	30.46	2.814e4					1.9	NO		bd		0.000
9	FUNCTION2 PFK	30.37	4.071e4					1.2	NO		bb		0.000
10	FUNCTION2 PFK	30.11	3.076e3					0.5	NO		bb		0.000
11	FUNCTION2 PFK	29.82	7.474e3					0.8	NO		bb		0.000
12	FUNCTION2 PFK	29.11	2.304e4					1.5	NO		bb		0.000
13	FUNCTION2 PFK	29.07	2.690e3					0.5	NO		bb		0.000
14	FUNCTION2 PFK	28.60	2.738e3					0.5	NO		bb		0.000
15	FUNCTION2 PFK	28.30	1.287e4					1.2	NO		bb		0.000
16	FUNCTION2 PFK	27.76	4.191e4					1.5	NO		bb		0.000
17	FUNCTION2 PFK	27.57	3.057e4					1.5	NO		db		0.000
18	FUNCTION2 PFK	27.46	5.553e4					1.9	NO		bd		0.000
19	FUNCTION2 PFK	31.57	2.892e3					0.5	NO		bb		0.000
20	FUNCTION2 PFK	31.38	4.055e4					1.1	NO		bb		0.000

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.04	1.544e4					1.0	NO		bb		0.000
2	FUNCTION3 PFK	32.71	7.374e3					0.7	NO		db		0.000
3	FUNCTION3 PFK	32.65	1.824e4					1.2	NO		bd		0.000
4	FUNCTION3 PFK	32.49	4.004e3					0.5	NO		bb		0.000
5	FUNCTION3 PFK	32.44	5.289e3					0.5	NO		bb		0.000
6	FUNCTION3 PFK	32.39	5.179e3					0.6	NO		db		0.000
7	FUNCTION3 PFK	32.34	1.273e4					1.1	NO		bd		0.000
8	FUNCTION3 PFK	32.29	1.795e3					0.3	NO		bb		0.000
9	FUNCTION3 PFK	32.21	2.509e4					1.3	NO		db		0.000
10	FUNCTION3 PFK	32.15	4.179e4					1.4	NO		dd		0.000
11	FUNCTION3 PFK	32.03	3.606e4					1.7	NO		dd		0.000
12	FUNCTION3 PFK	32.00	1.428e4					0.8	NO		bd		0.000
13	FUNCTION3 PFK	31.90	4.299e3					0.8	NO		bb		0.000
14	FUNCTION3 PFK	34.82	3.720e3					0.5	NO		bb		0.000
15	FUNCTION3 PFK	34.76	2.123e4					1.3	NO		bb		0.000
16	FUNCTION3 PFK	34.68	1.288e4					0.9	NO		bb		0.000
17	FUNCTION3 PFK	34.61	1.307e4					1.1	NO		bb		0.000
18	FUNCTION3 PFK	34.55	1.153e4					1.1	NO		bb		0.000
19	FUNCTION3 PFK	34.49	7.318e3					0.7	NO		bb		0.000
20	FUNCTION3 PFK	34.29	2.772e4					1.7	NO		db		0.000
21	FUNCTION3 PFK	34.25	1.264e4					1.2	NO		bd		0.000
22	FUNCTION3 PFK	34.20	2.694e3					0.4	NO		db		0.000
23	FUNCTION3 PFK	34.17	1.139e4					0.7	NO		bd		0.000
24	FUNCTION3 PFK	34.04	2.361e3					0.5	NO		bb		0.000
25	FUNCTION3 PFK	33.99	1.853e3					0.4	NO		bb		0.000
26	FUNCTION3 PFK	33.96	4.650e3					0.6	NO		bb		0.000
27	FUNCTION3 PFK	33.82	2.052e3					0.4	NO		bb		0.000
28	FUNCTION3 PFK	33.68	5.463e3					0.5	NO		bb		0.000
29	FUNCTION3 PFK	33.36	3.812e3					0.3	NO		bb		0.000
30	FUNCTION3 PFK	36.49	5.728e4					1.9	NO		dd		0.000
31	FUNCTION3 PFK	36.38	9.040e3					1.0	NO		bd		0.000
32	FUNCTION3 PFK	36.30	3.057e4					1.6	NO		db		0.000
33	FUNCTION3 PFK	36.26	6.745e3					0.7	NO		bd		0.000
34	FUNCTION3 PFK	36.15	2.751e4					1.5	NO		db		0.000
35	FUNCTION3 PFK	36.11	2.240e4					1.4	NO		dd		0.000
36	FUNCTION3 PFK	36.04	1.285e4					1.2	NO		dd		0.000
37	FUNCTION3 PFK	36.01	2.195e4					1.5	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	35.88	6.947e3					0.5	NO		bb		0.000
39	FUNCTION3 PFK	35.82	3.488e3					0.4	NO		bb		0.000
40	FUNCTION3 PFK	35.70	1.376e4					0.8	NO		bb		0.000
41	FUNCTION3 PFK	35.42	1.464e4					0.9	NO		bb		0.000
42	FUNCTION3 PFK	35.37	3.885e3					0.5	NO		db		0.000
43	FUNCTION3 PFK	35.33	2.092e4					1.0	NO		bd		0.000
44	FUNCTION3 PFK	35.23	1.950e4					1.4	NO		bb		0.000
45	FUNCTION3 PFK	34.88	2.034e4					0.8	NO		bb		0.000
46	FUNCTION3 PFK	36.85	2.175e4					1.3	NO		bb		0.000
47	FUNCTION3 PFK	36.66	6.003e3					0.7	NO		bb		0.000
48	FUNCTION3 PFK	36.61	3.093e4					1.6	NO		db		0.000
49	FUNCTION3 PFK	36.56	4.014e4					2.1	NO		dd		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.55	9.444e3					0.7	NO		db		
2	FUNCTION4 PFK	38.46	6.344e3					0.7	NO		bd		
3	FUNCTION4 PFK	38.29	1.506e4					1.3	NO		bb		
4	FUNCTION4 PFK	38.22	1.743e4					2.2	NO		bb		
5	FUNCTION4 PFK	37.96	2.765e4					1.5	NO		db		
6	FUNCTION4 PFK	37.88	2.147e4					1.6	NO		bd		
7	FUNCTION4 PFK	37.57	1.670e3					0.4	NO		bb		
8	FUNCTION4 PFK	37.17	8.105e3					0.9	NO		db		
9	FUNCTION4 PFK	37.13	3.743e4					1.4	NO		dd		
10	FUNCTION4 PFK	37.02	4.034e4					3.0	YES		bd		
11	FUNCTION4 PFK	36.95	9.024e3					1.2	NO		bb		
12	FUNCTION4 PFK	41.85	3.760e3					0.6	NO		bb		
13	FUNCTION4 PFK	41.37	1.614e3					0.4	NO		bb		
14	FUNCTION4 PFK	41.32	7.443e3					1.0	NO		bb		
15	FUNCTION4 PFK	41.22	2.614e3					0.4	NO		bb		
16	FUNCTION4 PFK	41.05	2.144e4					1.3	NO		bb		
17	FUNCTION4 PFK	40.84	4.481e4					1.6	NO		bb		
18	FUNCTION4 PFK	40.63	1.096e4					1.1	NO		bb		
19	FUNCTION4 PFK	40.49	4.877e3					0.5	NO		bb		
20	FUNCTION4 PFK	40.35	1.357e3					0.3	NO		bb		
21	FUNCTION4 PFK	39.84	9.850e3					0.6	NO		bb		
22	FUNCTION4 PFK	39.60	1.241e4					1.1	NO		bb		
23	FUNCTION4 PFK	38.97	1.593e4					1.4	NO		bb		
24	FUNCTION4 PFK	38.89	9.305e3					1.1	NO		bb		
25	FUNCTION4 PFK	38.59	5.332e3					0.8	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:47 Pacific Daylight Time

**ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk**

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.19	9.568e3					1.7	NO		bd		
2	FUNCTION5 PFK	44.96	3.366e3					0.8	NO		bb		
3	FUNCTION5 PFK	44.71	5.499e3					1.2	NO		db		
4	FUNCTION5 PFK	44.66	1.070e4					1.7	NO		dd		
5	FUNCTION5 PFK	44.63	1.016e3					0.6	NO		bd		
6	FUNCTION5 PFK	44.34	2.164e3					0.9	NO		bb		
7	FUNCTION5 PFK	44.09	2.666e3					0.8	NO		bb		
8	FUNCTION5 PFK	43.80	4.776e3					1.3	NO		bb		
9	FUNCTION5 PFK	43.50	1.491e4					2.2	NO		bb		
10	FUNCTION5 PFK	43.40	5.592e3					1.6	NO		bb		
11	FUNCTION5 PFK	43.04	1.636e4					2.3	NO		bb		
12	FUNCTION5 PFK	42.77	7.607e3					2.1	NO		bb		
13	FUNCTION5 PFK	42.73	4.771e3					1.3	NO		bb		
14	FUNCTION5 PFK	42.64	1.458e3					0.6	NO		bb		
15	FUNCTION5 PFK	42.59	6.617e3					1.5	NO		bb		
16	FUNCTION5 PFK	42.24	5.118e3					1.3	NO		db		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCDPE	26.49	1.193e2					2.7	NO		db		0.000
2	FUNCTION1 HXCDPE	26.41	9.762e1					2.1	NO		dd		0.000
3	FUNCTION1 HXCDPE	26.26	9.247e1					1.7	NO		bd		0.000
4	FUNCTION1 HXCDPE	25.61	2.077e2					2.3	NO		db		0.000
5	FUNCTION1 HXCDPE	25.46	1.046e2					2.3	NO		dd		0.000
6	FUNCTION1 HXCDPE	25.38	1.136e2					2.0	NO		bd		0.000
7	FUNCTION1 HXCDPE	24.63	2.690e2					3.8	YES		db		0.000
8	FUNCTION1 HXCDPE	24.55	1.329e2					2.4	NO		bd		0.000
9	FUNCTION1 HXCDPE	23.99	1.079e2					1.9	NO		bb		0.000
10	FUNCTION1 HXCDPE	23.55	7.477e1					2.2	NO		bb		0.000
11	FUNCTION1 HXCDPE	23.34	1.298e2					2.8	NO		bb		0.000
12	FUNCTION1 HXCDPE	21.21	1.477e2					2.0	NO		db		0.000
13	FUNCTION1 HXCDPE	21.12	1.163e2					2.1	NO		bd		0.000
14	FUNCTION1 HXCDPE	20.65	1.066e2					1.3	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:47 Pacific Daylight Time

**ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk**

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCDPE	21.89	8.553e1					1.8	NO		bb		0.000
2	FUNCTION1 HPCDPE	26.53	7.967e1					2.7	NO		bb		0.000
3	FUNCTION1 HPCDPE	25.40	1.321e2					2.3	NO		bb		0.000
4	FUNCTION1 HPCDPE	24.63	1.014e2					2.9	NO		bb		0.000
5	FUNCTION1 HPCDPE	24.40	1.144e2					2.3	NO		bb		0.000
6	FUNCTION1 HPCDPE	22.40	1.275e2					1.6	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	30.50	1.386e2					2.1	NO		bb		0.000
2	FUNCTION2 HPCDPE	30.29	9.592e1					2.0	NO		db		0.000
3	FUNCTION2 HPCDPE	30.17	1.883e2					5.2	YES		bd		0.000
4	FUNCTION2 HPCDPE	29.38	1.102e2					1.7	NO		bb		0.000
5	FUNCTION2 HPCDPE	28.07	7.067e1					1.4	NO		bb		0.000
6	FUNCTION2 HPCDPE	27.80	9.516e1					1.6	NO		bb		0.000
7	FUNCTION2 HPCDPE	27.15	9.953e1					2.4	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.05	1.830e2					4.9	YES		bd		0.000
2	FUNCTION3 OCDPE	33.00	7.382e1					2.2	NO		bb		0.000
3	FUNCTION3 OCDPE	35.28	7.761e1					2.3	NO		db		0.000
4	FUNCTION3 OCDPE	35.16	2.011e2					3.1	YES		dd		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.46	1.034e2					2.1	NO		bb		0.000
2	FUNCTION4 NCDPE	40.05	8.556e1					2.5	NO		db		0.000
3	FUNCTION4 NCDPE	39.99	1.309e2					3.1	YES		dd		0.000
4	FUNCTION4 NCDPE	39.91	8.760e1					3.0	NO		bd		0.000
5	FUNCTION4 NCDPE	37.51	7.319e1					1.5	NO		bb		0.000
6	FUNCTION4 NCDPE	37.24	7.746e1					1.9	NO		db		0.000
7	FUNCTION4 NCDPE	37.19	8.207e1					1.9	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
Printed: Thursday, March 24, 2022 09:18:47 Pacific Daylight Time

**ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk**

**ETHERS6**

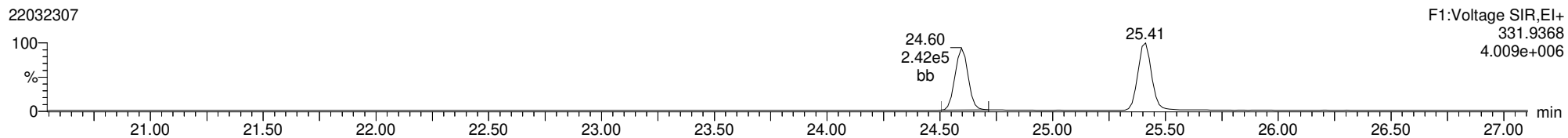
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
Calibration: 24 Mar 2022 08:56:14

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

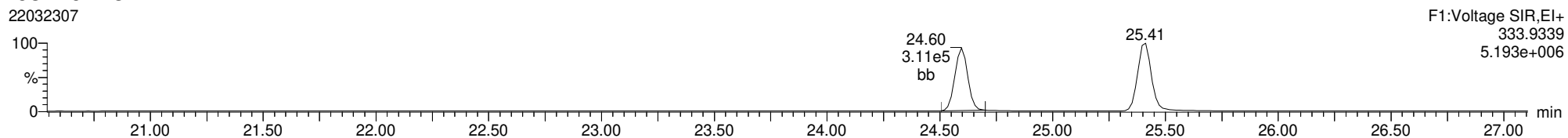
**13C-1234-TCDD**

22032307



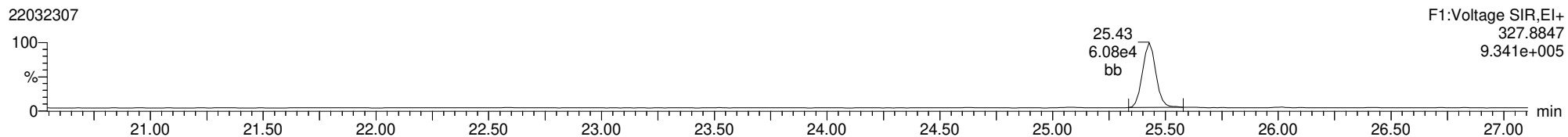
**13C-1234-TCDD**

22032307



**37CL-2378-TCDD**

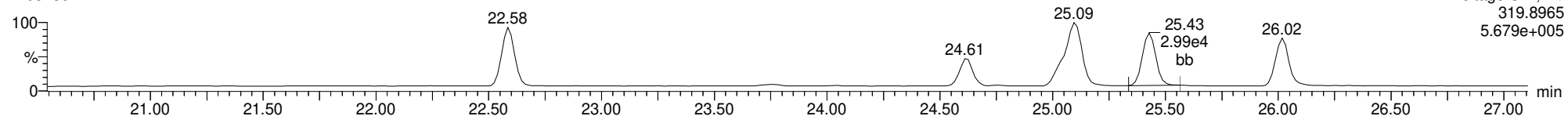
22032307



ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

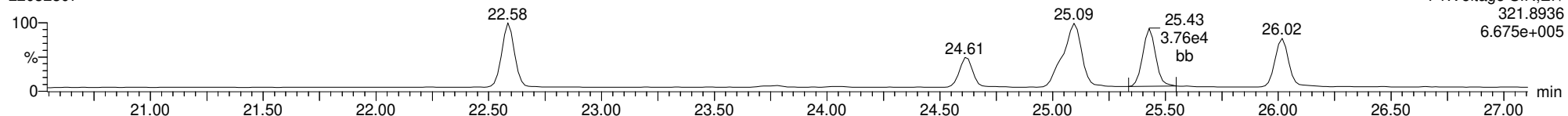
**2378-TCDD**

22032307



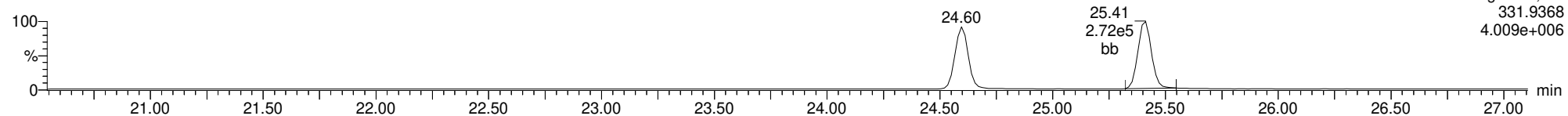
**2378-TCDD**

22032307



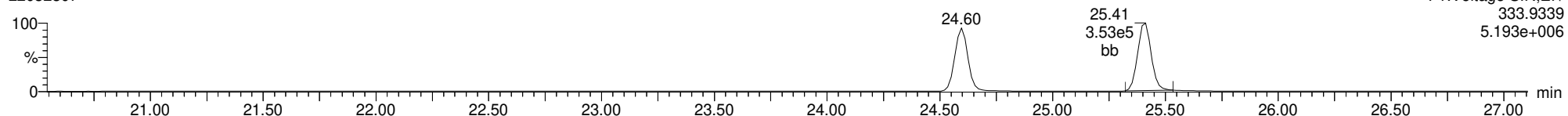
**13C-2378-TCDD**

22032307



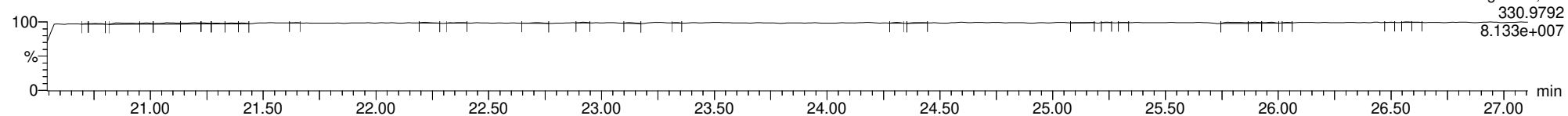
**13C-2378-TCDD**

22032307



**FUNCTION1 PFK**

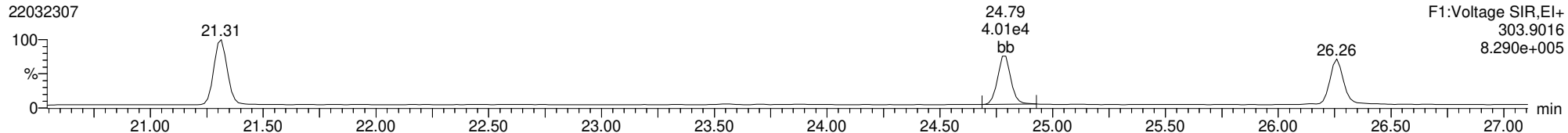
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ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

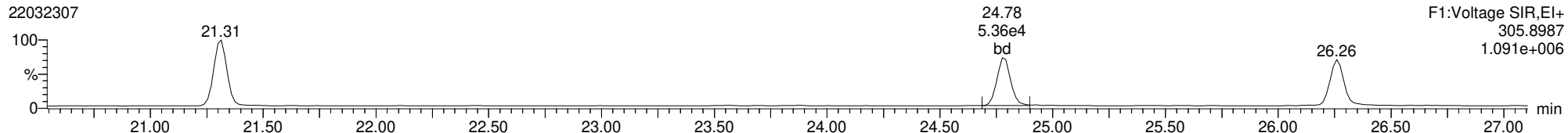
**2378-TCDF**

22032307



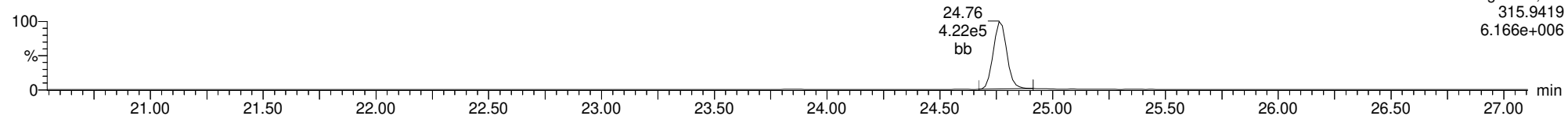
**2378-TCDF**

22032307



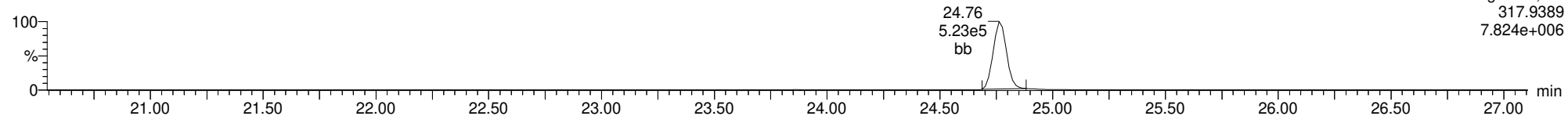
**13C-2378-TCDF**

22032307



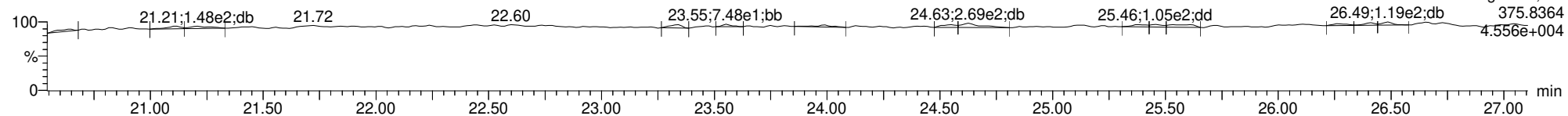
**13C-2378-TCDF**

22032307



**FUNCTION1 HXCDPE**

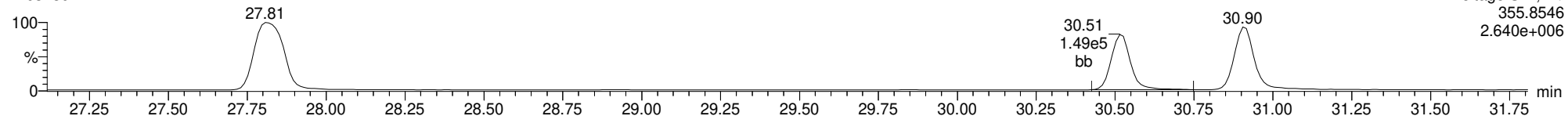
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ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

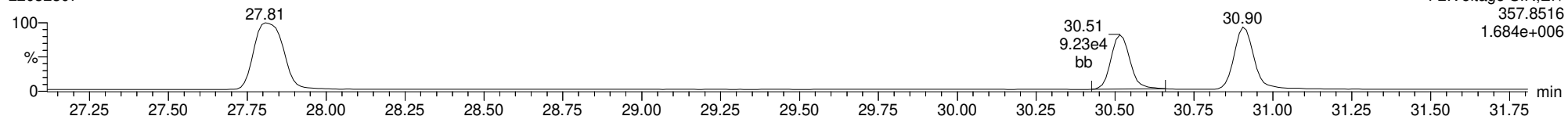
12378-PeCDD

22032307



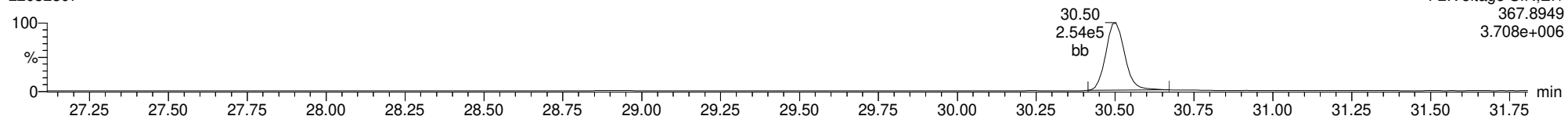
12378-PeCDD

22032307



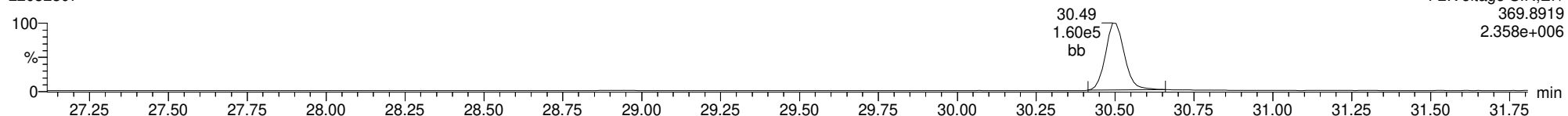
13C-12378-PeCDD

22032307



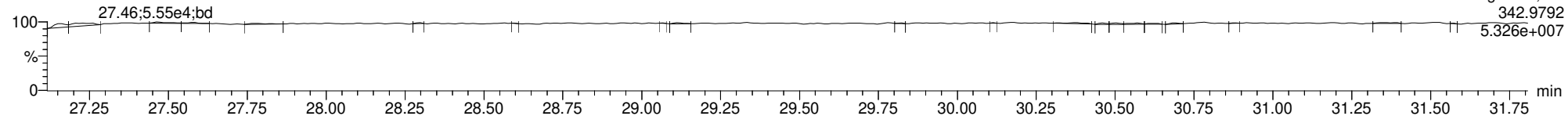
13C-12378-PeCDD

22032307



FUNCTION2 PFK

22032307

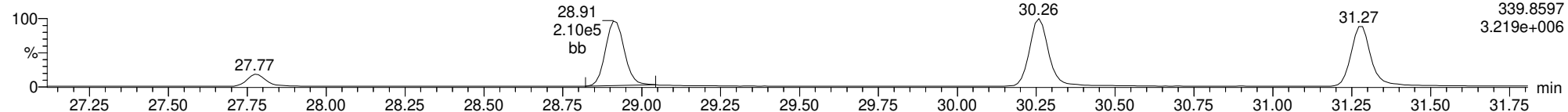




ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

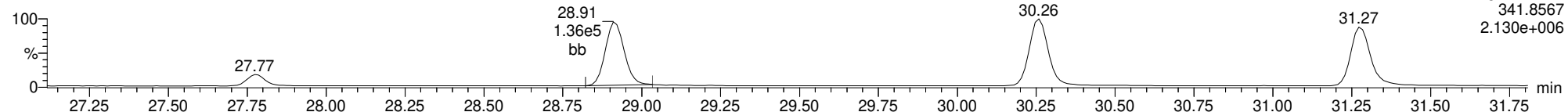
12378-PeCDF

22032307



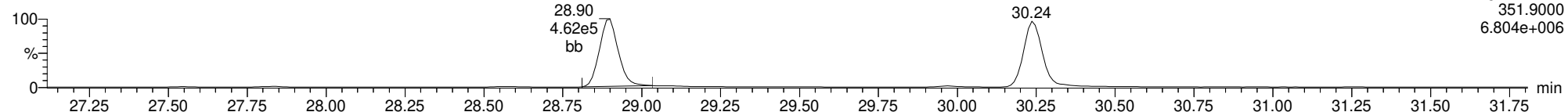
12378-PeCDF

22032307



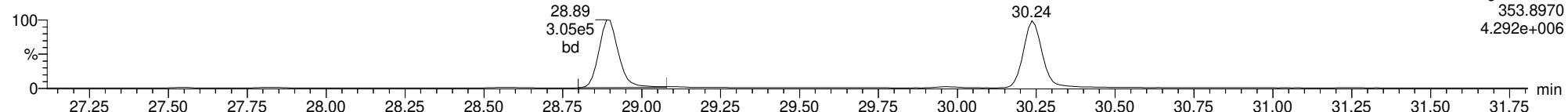
13C-12378-PeCDF

22032307



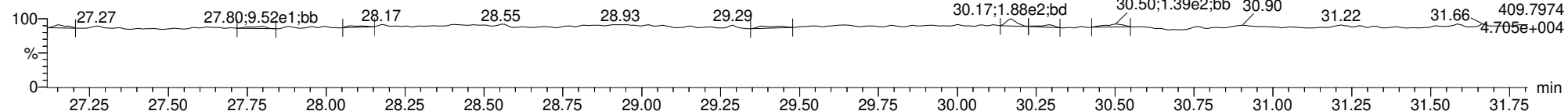
13C-12378-PeCDF

22032307



FUNCTION2 HPCDPE

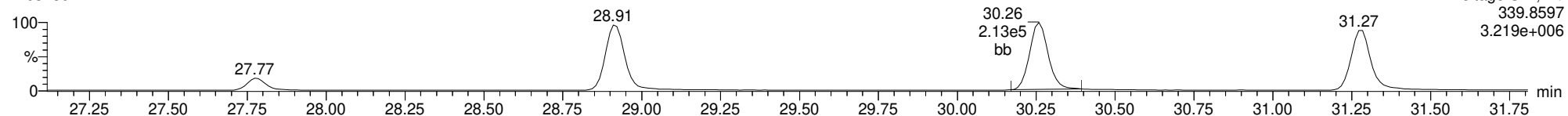
22032307



ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

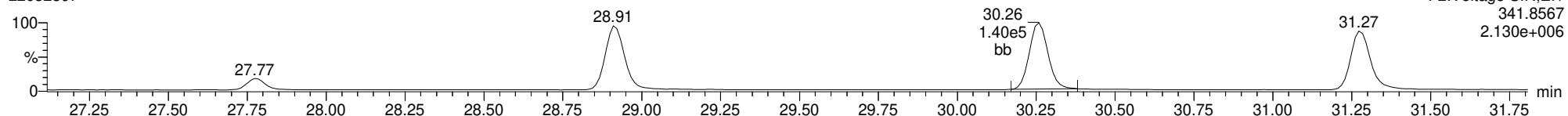
22032307



F2:Voltage SIR,El+  
339.8597  
3.219e+006

**23478-PeCDF**

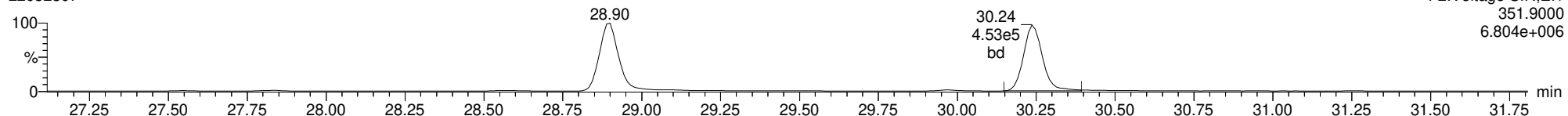
22032307



F2:Voltage SIR,El+  
341.8567  
2.130e+006

**13C-23478-PeCDF**

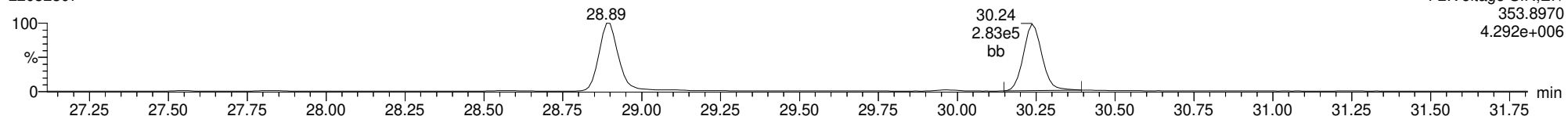
22032307



F2:Voltage SIR,El+  
351.9000  
6.804e+006

**13C-23478-PeCDF**

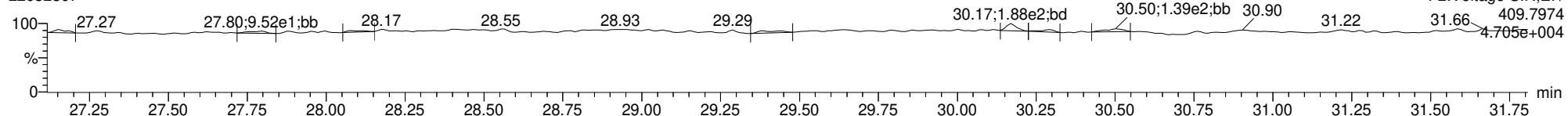
22032307



F2:Voltage SIR,El+  
353.8970  
4.292e+006

**FUNCTION2 HPCDPE**

22032307

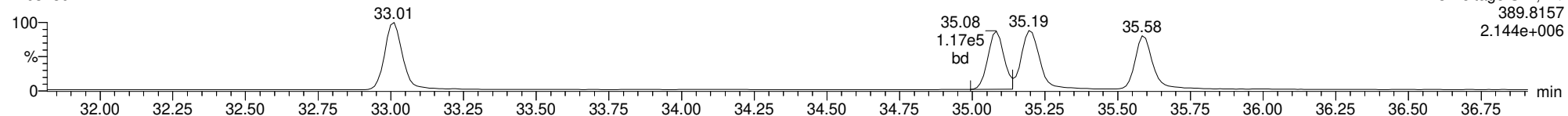


F2:Voltage SIR,El+  
409.7974  
4.705e+004

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

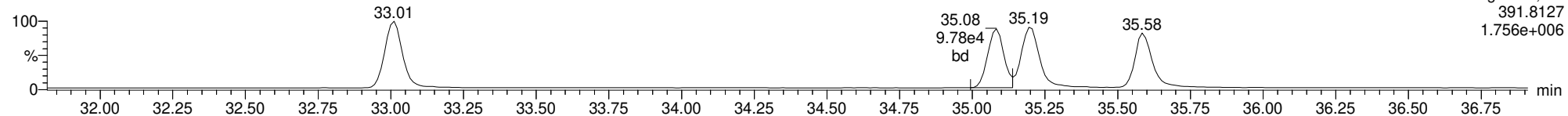
123478-HxCDD

22032307



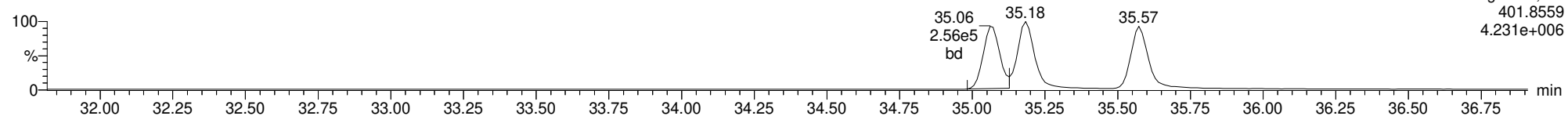
123478-HxCDD

22032307



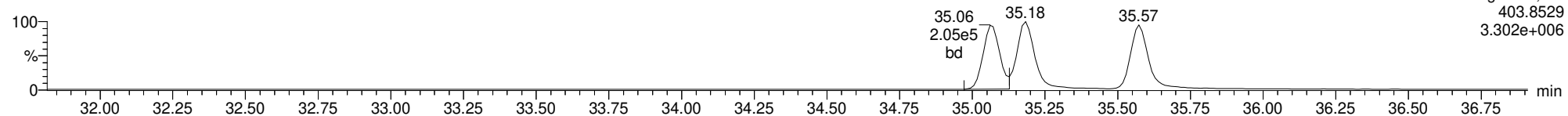
13C-123478-HxCDD

22032307



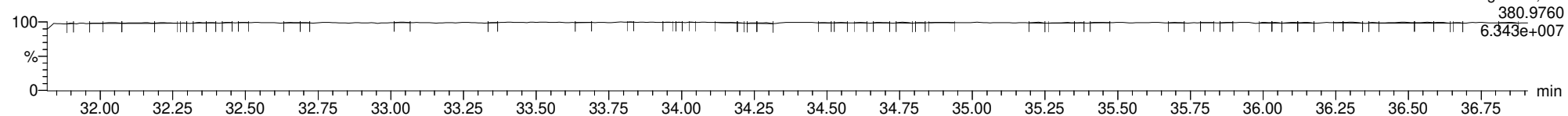
13C-123478-HxCDD

22032307



FUNCTION3 PFK

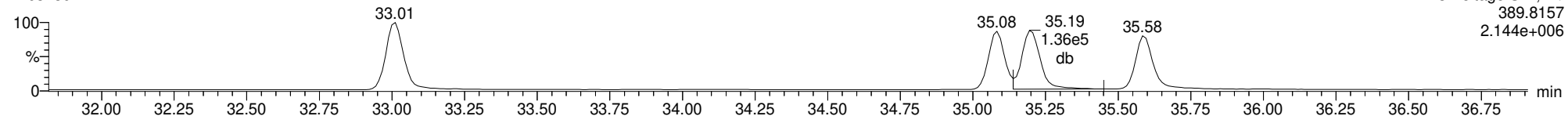
22032307



ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

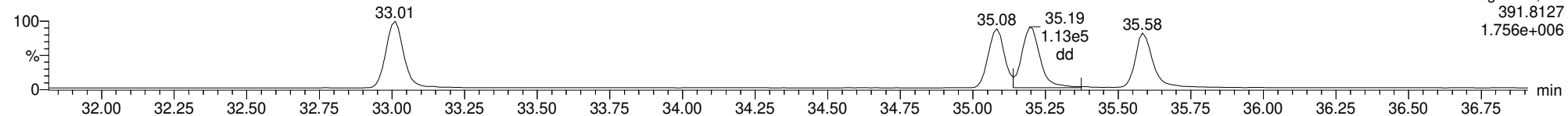
22032307



F3:Voltage SIR,EI+  
389.8157  
2.144e+006

**123678-HxCDD**

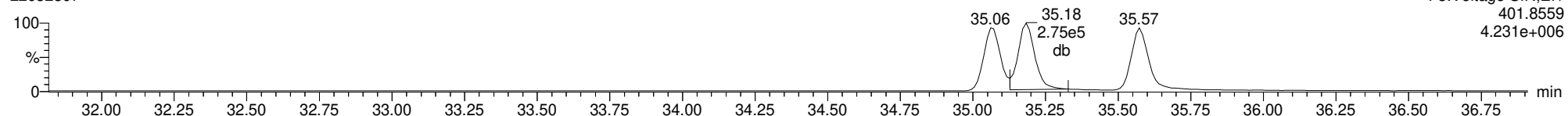
22032307



F3:Voltage SIR,EI+  
391.8127  
1.756e+006

**13C-123678-HxCDD**

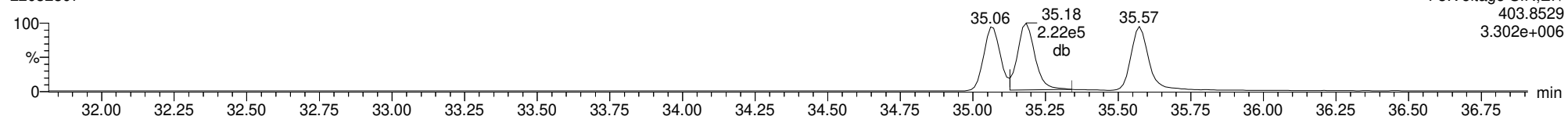
22032307



F3:Voltage SIR,EI+  
401.8559  
4.231e+006

**13C-123678-HxCDD**

22032307

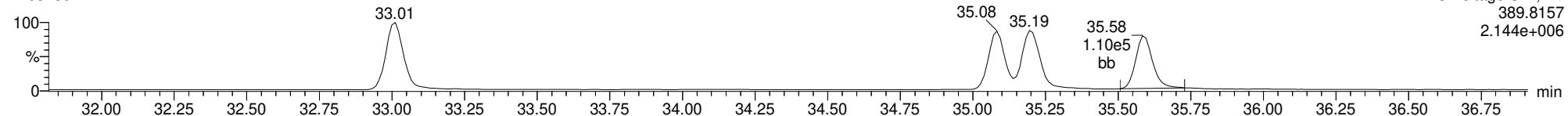


F3:Voltage SIR,EI+  
403.8529  
3.302e+006

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

**123789-HxCDD**

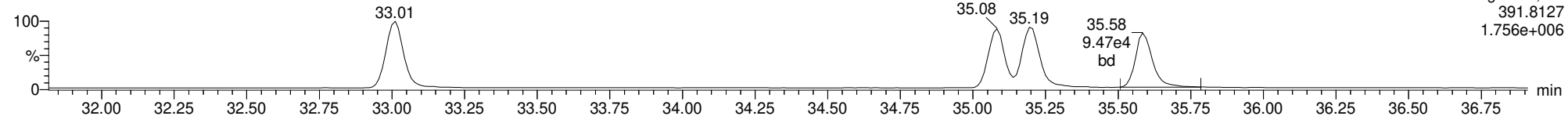
22032307



F3:Voltage SIR,El+  
389.8157  
2.144e+006

**123789-HxCDD**

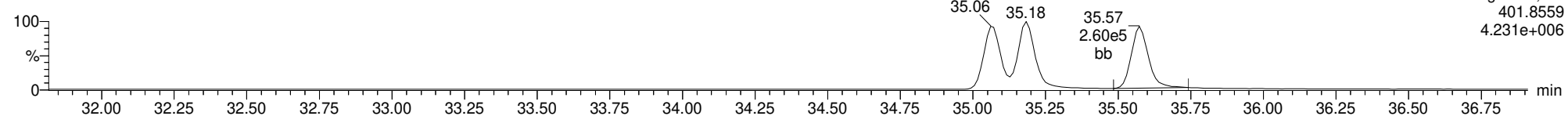
22032307



F3:Voltage SIR,El+  
391.8127  
1.756e+006

**13C-123789-HxCDD**

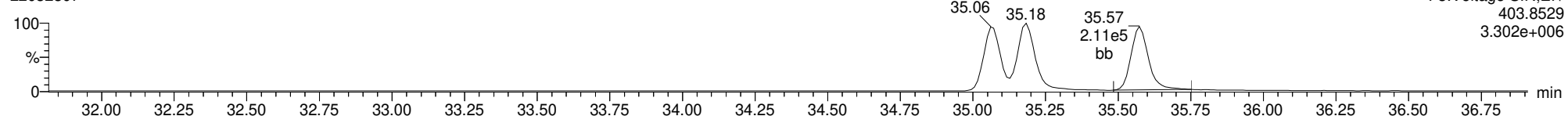
22032307



F3:Voltage SIR,El+  
401.8559  
4.231e+006

**13C-123789-HxCDD**

22032307

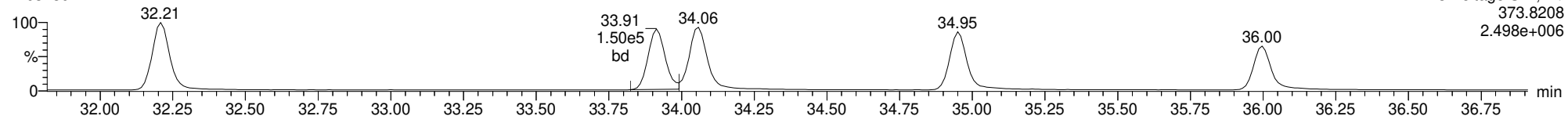


F3:Voltage SIR,El+  
403.8529  
3.302e+006

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

123478-HxCDF

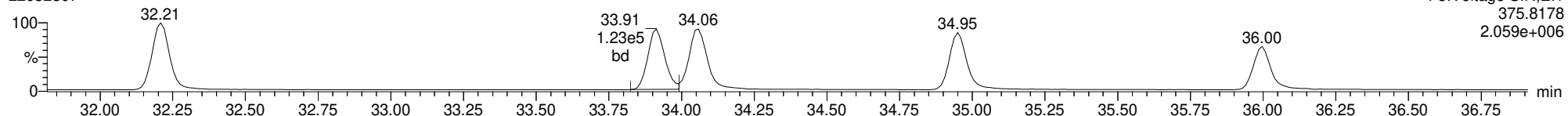
22032307



F3:Voltage SIR,El+  
373.8208  
2.498e+006

123478-HxCDF

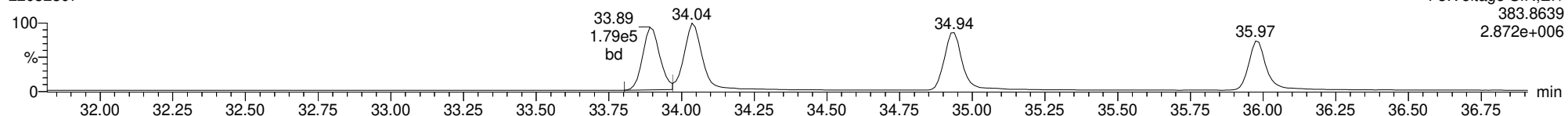
22032307



F3:Voltage SIR,El+  
375.8178  
2.059e+006

13C-123478-HxCDF

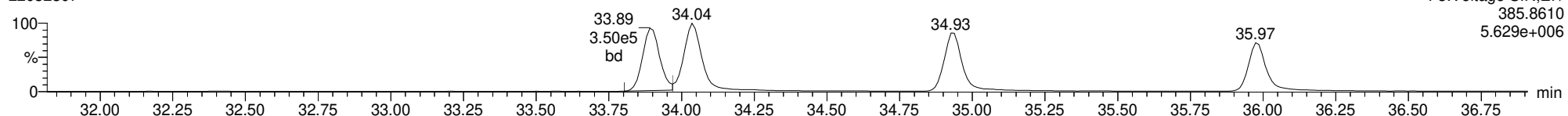
22032307



F3:Voltage SIR,El+  
383.8639  
2.872e+006

13C-123478-HxCDF

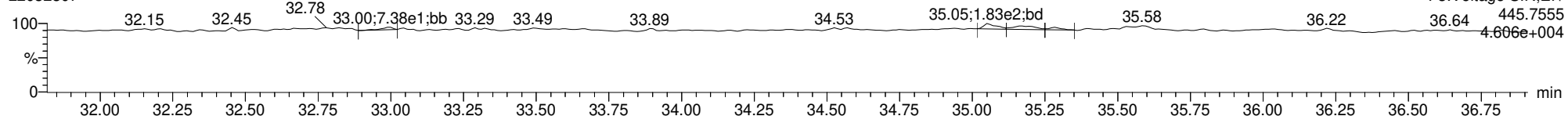
22032307



F3:Voltage SIR,El+  
385.8610  
5.629e+006

FUNCTION3 OGDPE

22032307

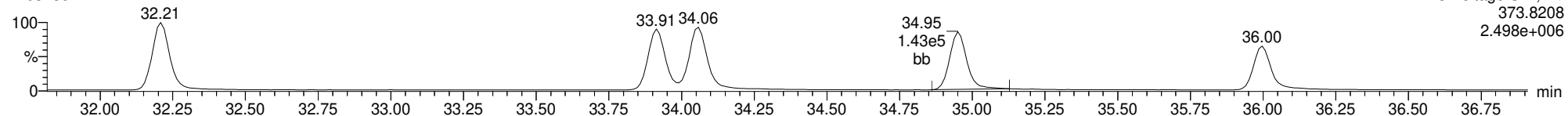


F3:Voltage SIR,El+  
36.64 445.7555  
4.606e+004

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

234678-HxCDF

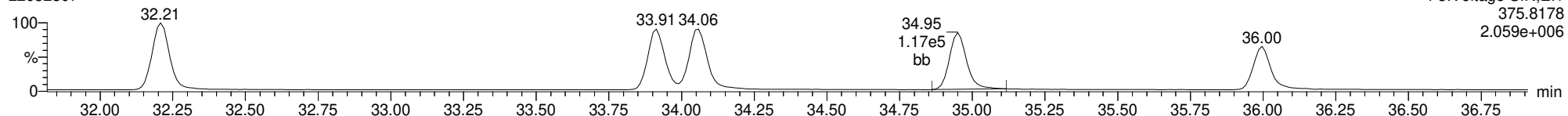
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F3:Voltage SIR,El+  
373.8208  
2.498e+006

234678-HxCDF

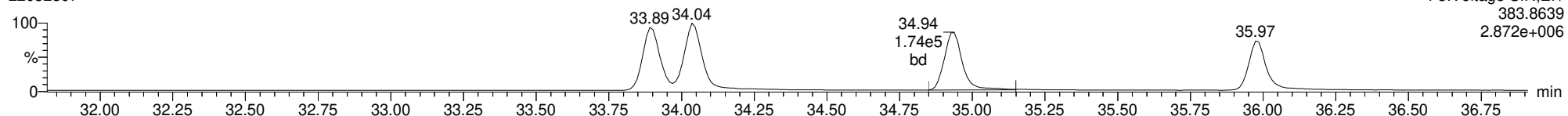
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F3:Voltage SIR,El+  
375.8178  
2.059e+006

13C-234678-HxCDF

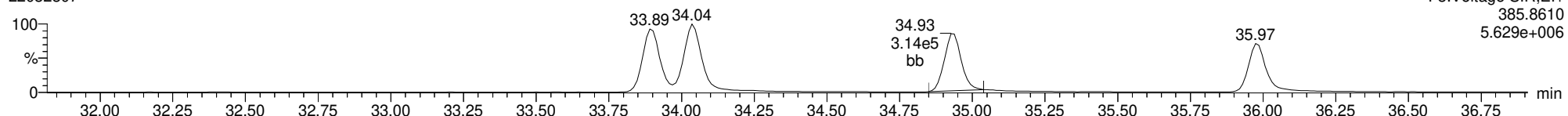
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F3:Voltage SIR,El+  
383.8639  
2.872e+006

13C-234678-HxCDF

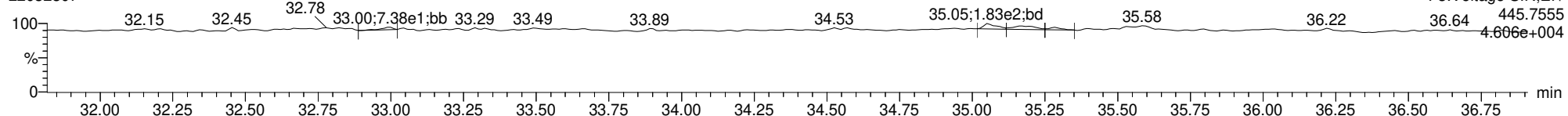
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F3:Voltage SIR,El+  
385.8610  
5.629e+006

FUNCTION3 OGDPE

22032307

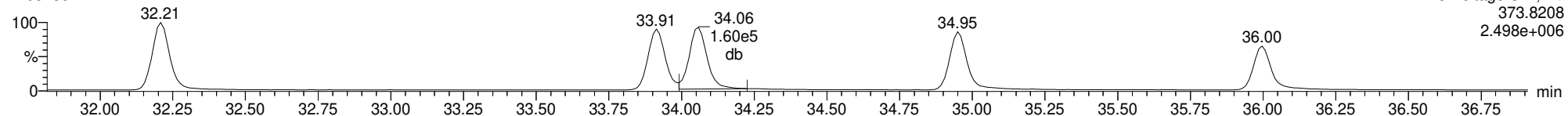


F3:Voltage SIR,El+  
445.7555  
4.606e+004

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

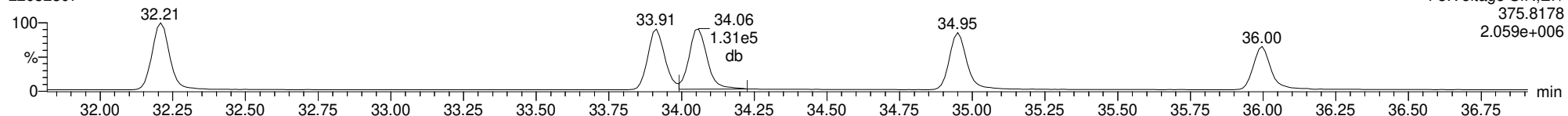
123678-HxCDF

22032307



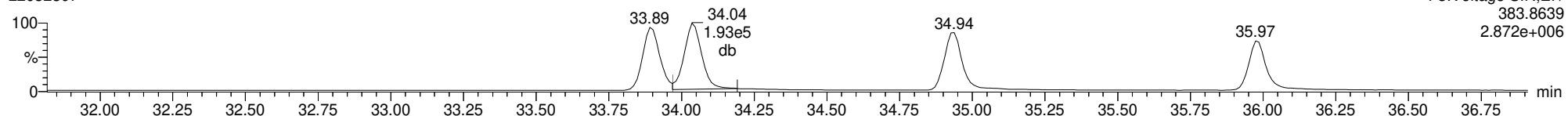
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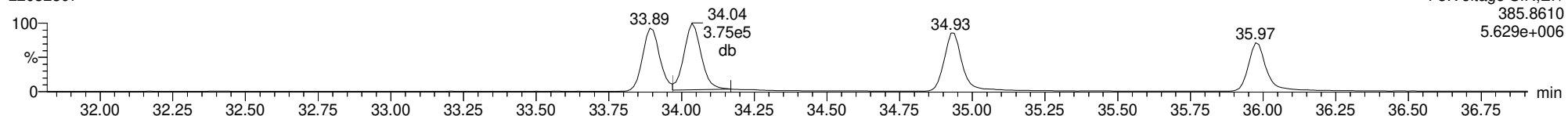
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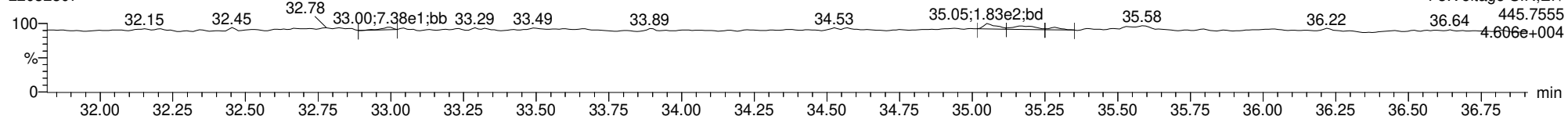
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22032307



FUNCTION3 OCDPE

22032307

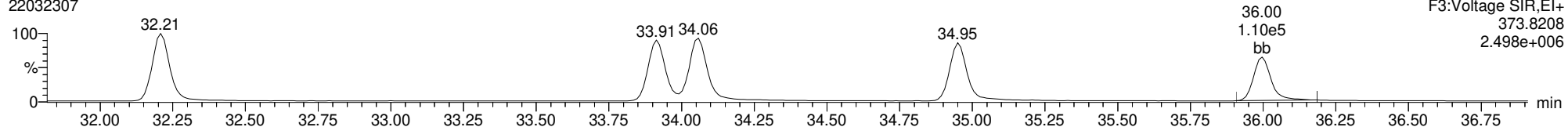




ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

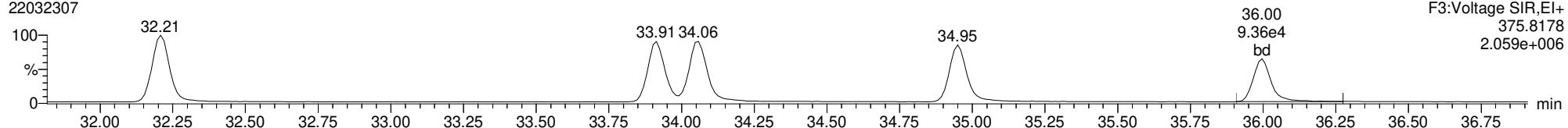
123789-HxCDF

22032307



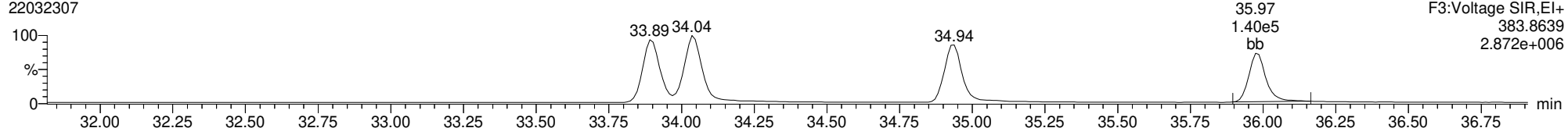
123789-HxCDF

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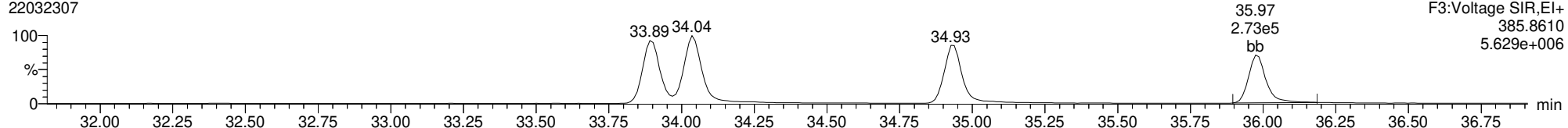
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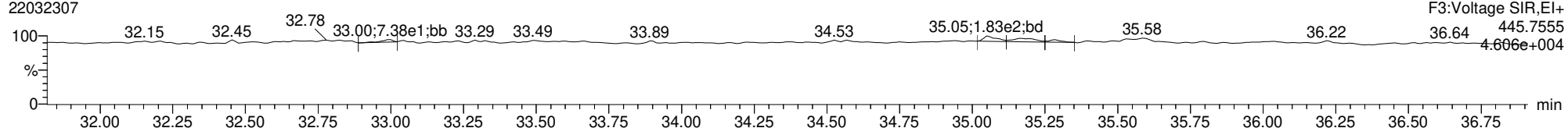
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22032307



FUNCTION3 OCDPE

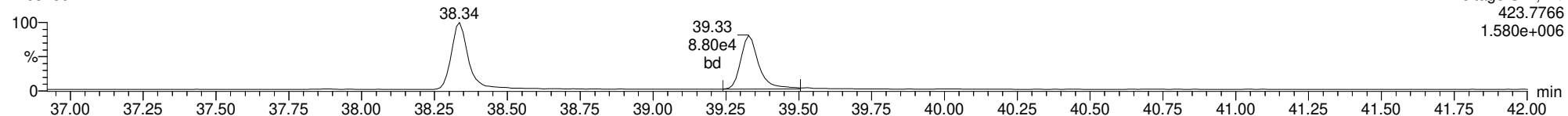
22032307



ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

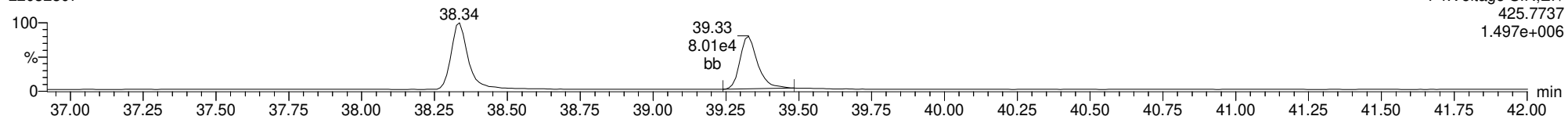
22032307



F4:Voltage SIR,El+  
423.7766  
1.580e+006

1234678-HpCDD

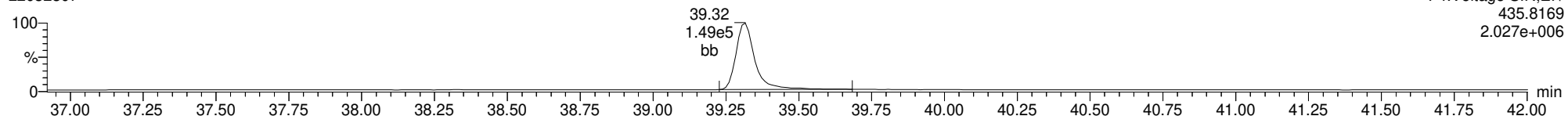
22032307



F4:Voltage SIR,El+  
425.7737  
1.497e+006

13C-1234678-HpCDD

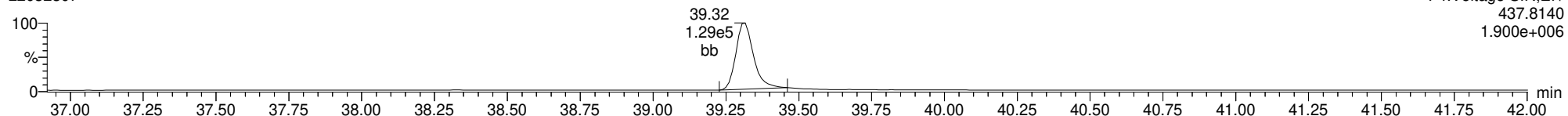
22032307



F4:Voltage SIR,El+  
435.8169  
2.027e+006

13C-1234678-HpCDD

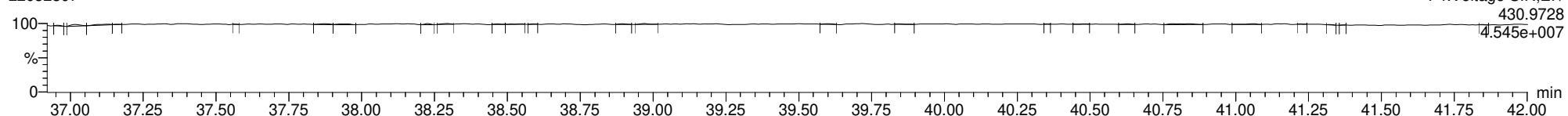
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F4:Voltage SIR,El+  
437.8140  
1.900e+006

FUNCTION4 PFK

22032307

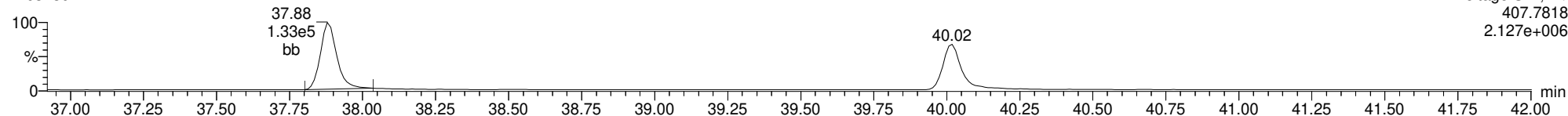


F4:Voltage SIR,El+  
430.9728  
4.545e+007

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

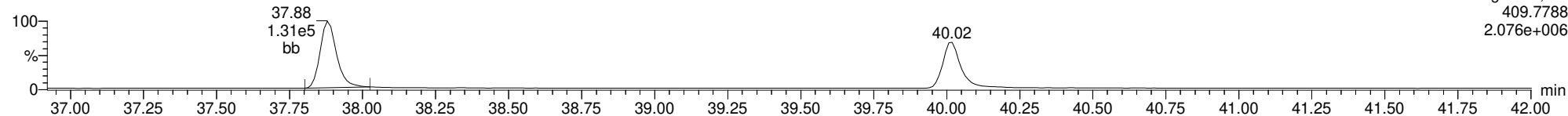
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22032307



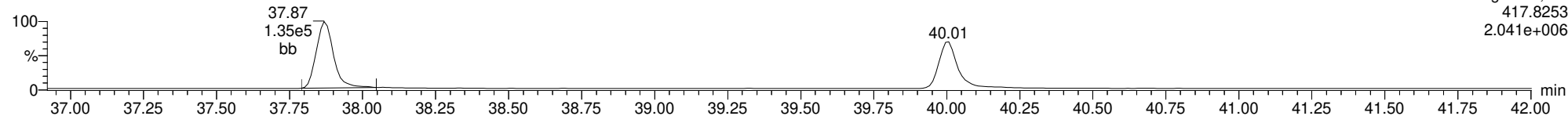
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22032307



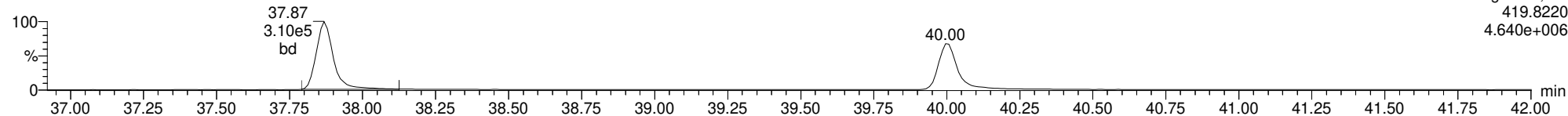
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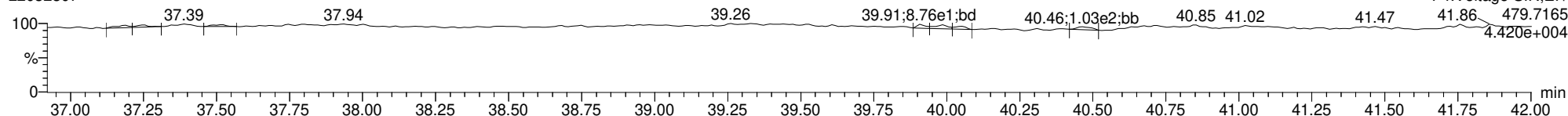
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22032307



FUNCTION4 NCDPE

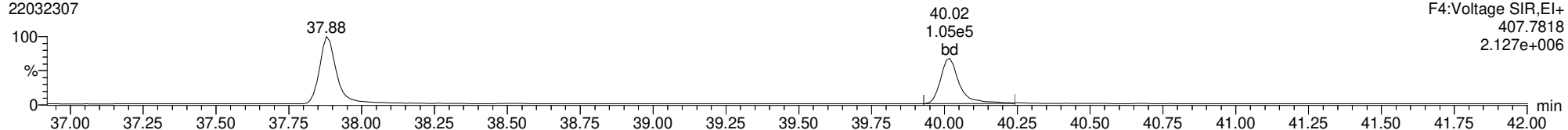
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ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

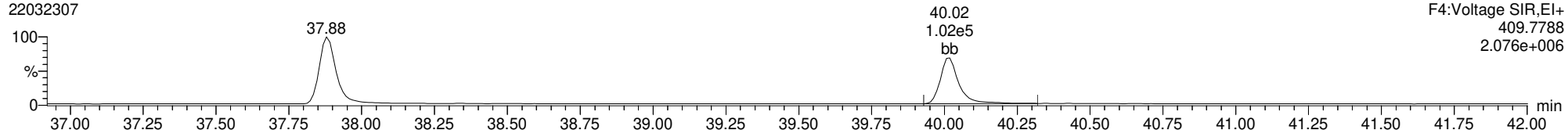
1234789-HpCDF

22032307



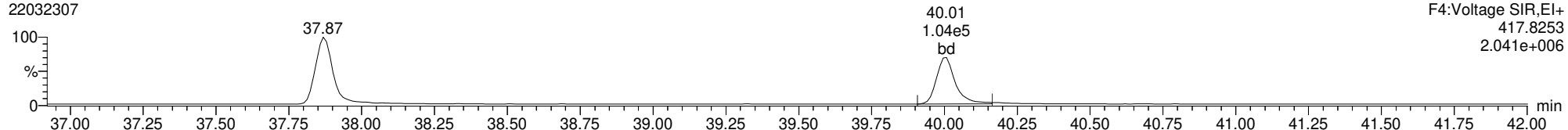
1234789-HpCDF

22032307



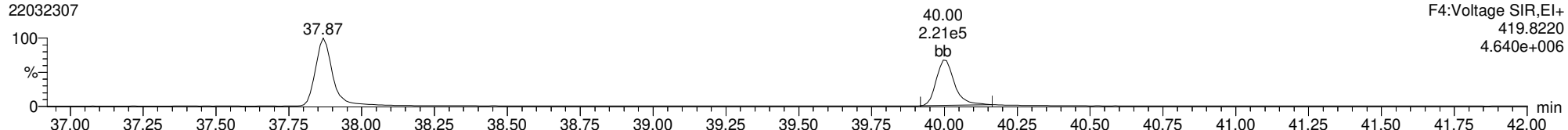
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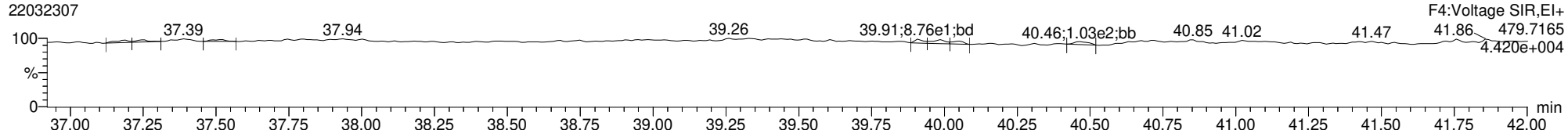
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22032307



FUNCTION4 NCDPE

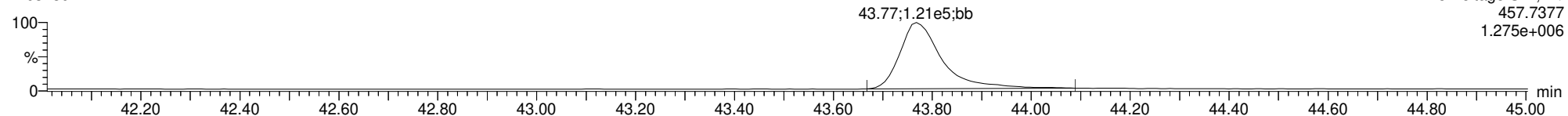
22032307



ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

**OCDD**

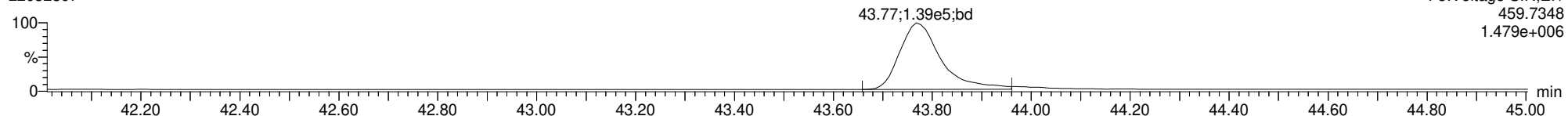
22032307



F5:Voltage SIR,El+  
457.7377  
1.275e+006

**OCDD**

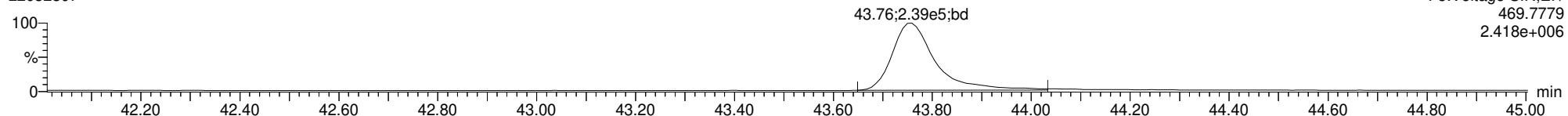
22032307



F5:Voltage SIR,El+  
459.7348  
1.479e+006

**13C-OCDD**

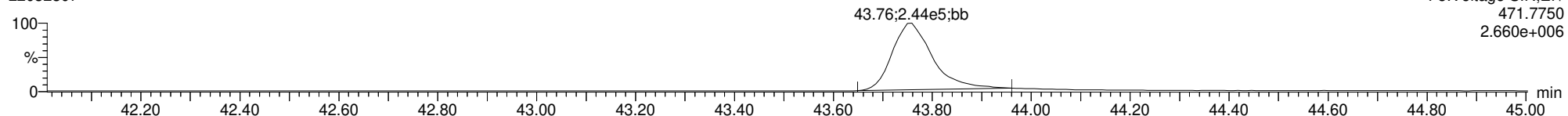
22032307



F5:Voltage SIR,El+  
469.7779  
2.418e+006

**13C-OCDD**

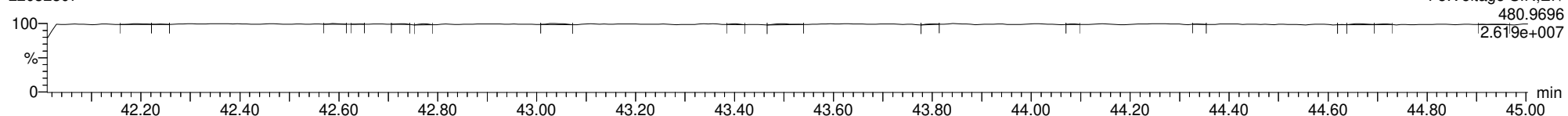
22032307



F5:Voltage SIR,El+  
471.7750  
2.660e+006

**FUNCTION5 PFK**

22032307

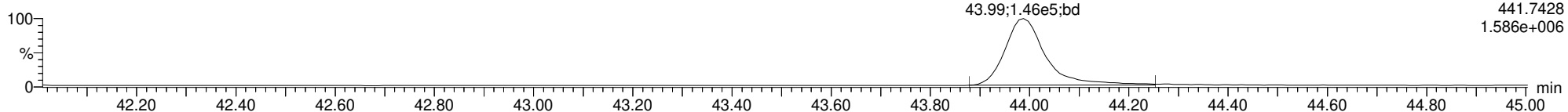


F5:Voltage SIR,El+  
480.9696  
2.619e+007

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

**OCDF**

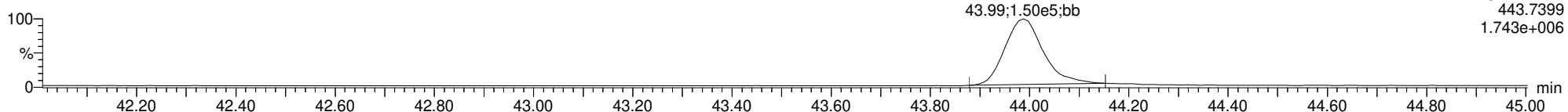
22032307



F5:Voltage SIR,El+  
441.7428  
1.586e+006

**OCDF**

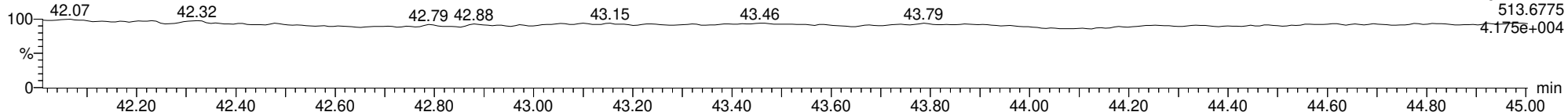
22032307



F5:Voltage SIR,El+  
443.7399  
1.743e+006

**FUNCTION5 DCDPE**

22032307

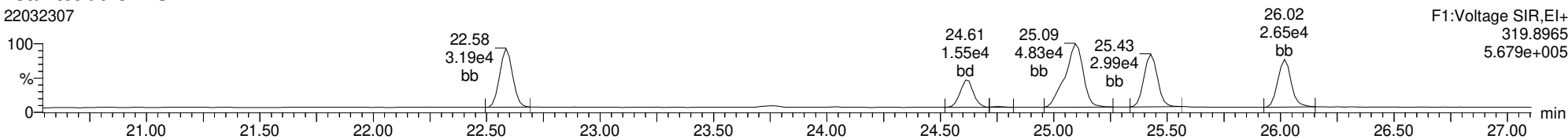


F5:Voltage SIR,El+  
513.6775  
4.175e+004

ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

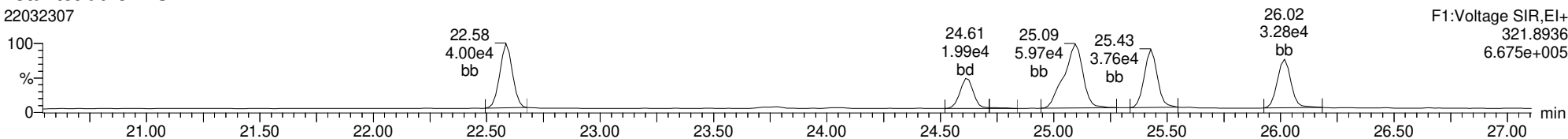
**Total-tetradoxins**

22032307



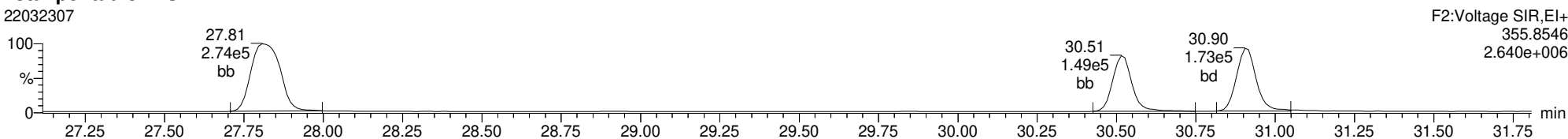
**Total-tetradoxins**

22032307



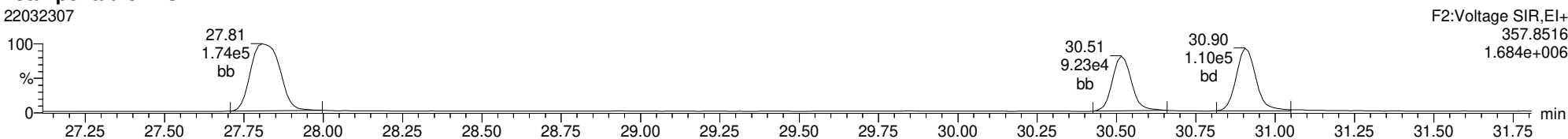
**Total-pentadoxins**

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**Total-pentadoxins**

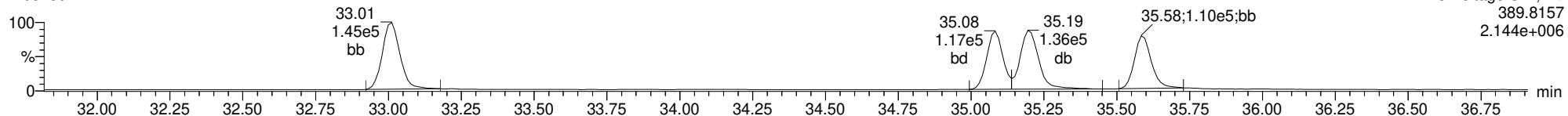
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ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

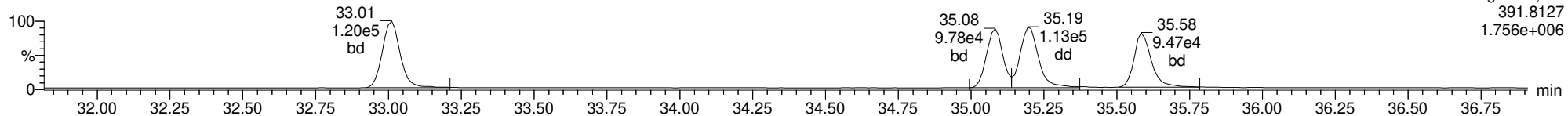
**Total-hexadioxins**

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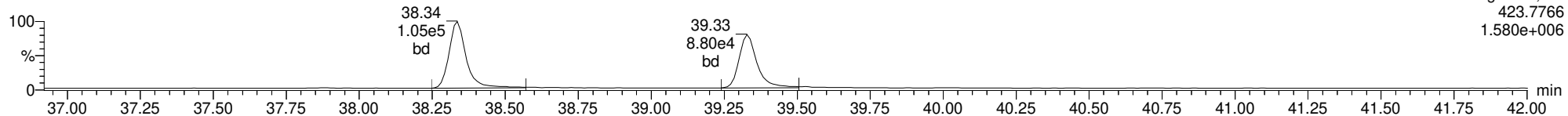
**Total-hexadioxins**

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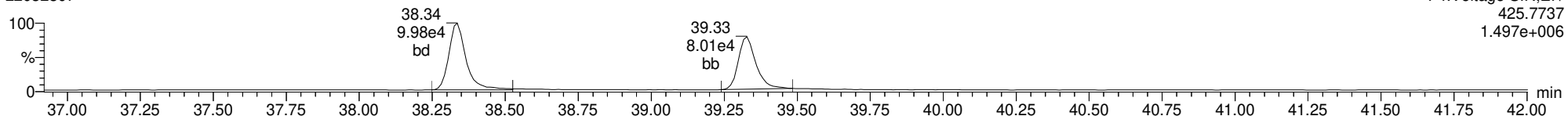
**Total-heptadioxins**

22032307



**Total-heptadioxins**

22032307

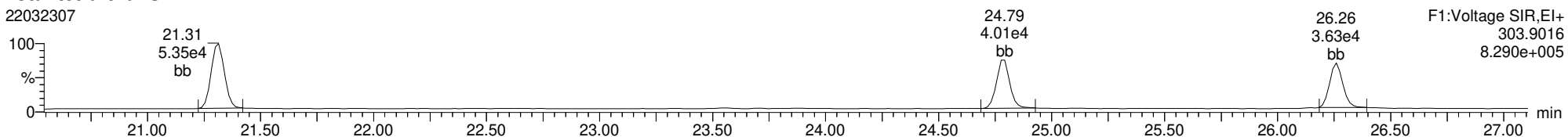




ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

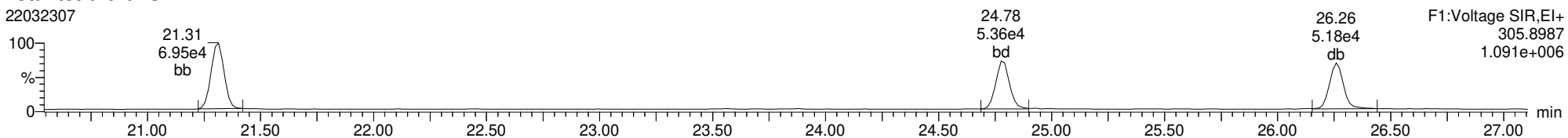
**Total-tetrafurans**

22032307



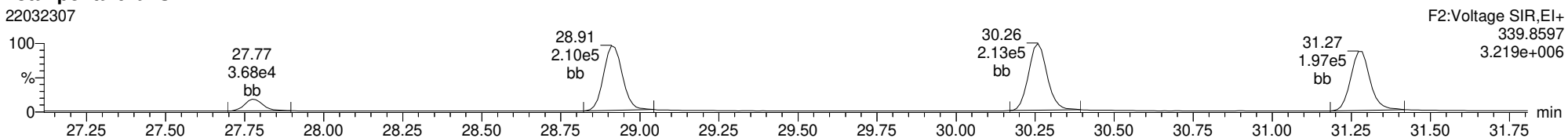
**Total-tetrafurans**

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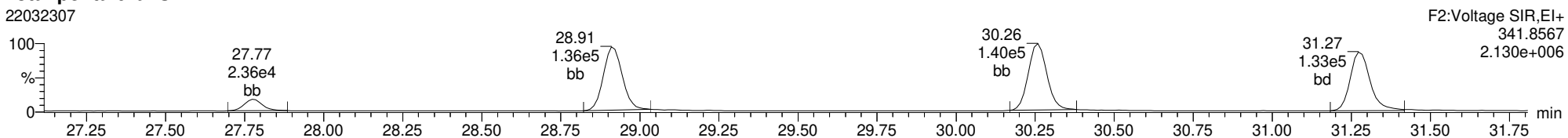
**Total-pentafurans**

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**Total-pentafurans**

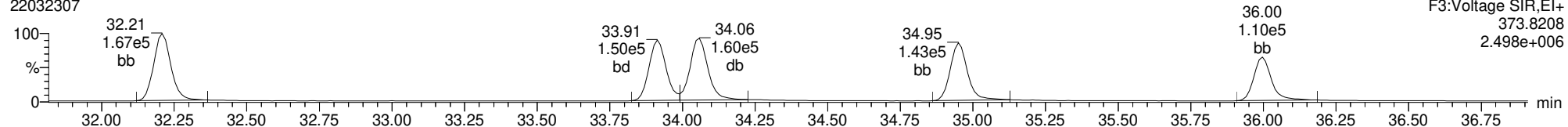
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ID: CS3CH, Name: 22032307, Date: 23-Mar-2022, Time: 14:24:05, Conditions: AUTOSPEC01, User: pk

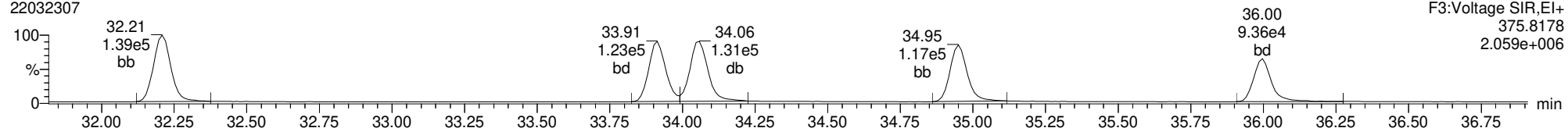
**Total-hexafurans**

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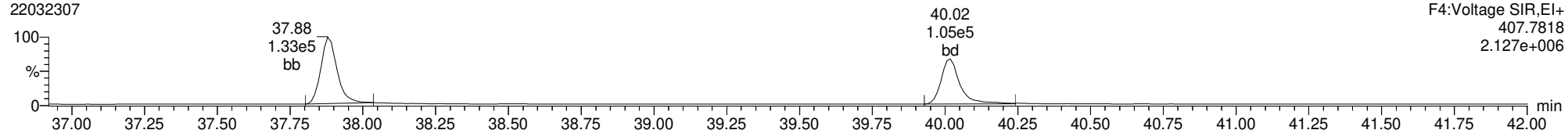
**Total-hexafurans**

22032307



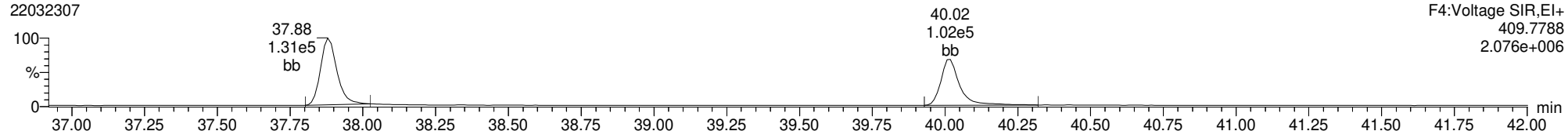
**Total-heptafurans**

22032307



**Total-heptafurans**

22032307



Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:55 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
 Calibration: 24 Mar 2022 08:56:14

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	24.777	1.001	2.301e5	3.000e5	0.985	0.767	0.770	1397	2070	3.30e6	4.40e6	2361.9	2127.1	NO	bb	bb	39.233
12378-PeCDF	28.910	1.001	1.225e6	8.039e5	0.906	1.524	1.550	3458	2900	1.88e7	1.23e7	5437.7	4239.2	NO	bb	bb	200.857
23478-PeCDF	30.259	1.001	1.272e6	8.329e5	1.008	1.527	1.550	3458	2900	1.94e7	1.26e7	5600.5	4344.5	NO	bb	bb	196.038
123478-HxCDF	33.913	1.001	9.130e5	7.440e5	1.045	1.227	1.240	4506	2582	1.40e7	1.13e7	3107.0	4376.4	NO	bd	bd	198.280
234678-HxCDF	34.949	1.001	8.938e5	7.239e5	1.101	1.235	1.240	4506	2582	1.35e7	1.09e7	2991.4	4204.7	NO	bb	bb	190.239
123678-HxCDF	34.058	1.001	9.749e5	7.930e5	1.019	1.229	1.240	4506	2582	1.40e7	1.15e7	3102.9	4450.1	NO	db	db	203.316
123789-HxCDF	35.985	1.000	6.967e5	5.872e5	0.992	1.186	1.240	4506	2582	1.02e7	8.31e6	2256.1	3219.8	NO	bb	bd	195.458
1234678-HpCDF	37.879	1.000	8.521e5	8.308e5	1.243	1.026	1.050	2976	3566	1.34e7	1.31e7	4492.1	3664.9	NO	bb	bb	200.652
1234789-HpCDF	40.018	1.001	6.758e5	6.388e5	1.192	1.058	1.050	2976	3566	9.27e6	9.14e6	3114.2	2562.3	NO	bd	bb	199.231
OCDF	43.979	1.005	9.641e5	1.061e6	1.303	0.909	0.890	3451	2761	1.15e7	1.27e7	3340.2	4583.4	NO	bb	bb	403.385
2378-TCDD	25.427	1.001	1.730e5	2.095e5	1.168	0.826	0.770	1756	1308	2.54e6	3.16e6	1445.7	2411.4	NO	bd	bb	40.064
12378-PeCDD	30.515	1.000	8.583e5	5.332e5	1.152	1.610	1.550	1885	1332	1.31e7	8.13e6	6944.8	6107.1	NO	bb	bb	199.373
123478-HxCDD	35.083	1.001	7.286e5	6.068e5	0.934	1.201	1.240	2036	2798	1.12e7	9.37e6	5498.2	3348.3	NO	bd	bd	199.147
123678-HxCDD	35.194	1.000	7.855e5	6.694e5	0.950	1.173	1.240	2036	2798	1.19e7	9.76e6	5824.1	3489.8	NO	db	db	199.700
123789-HxCDD	35.584	1.011	7.078e5	5.809e5	0.873	1.219	1.240	2036	2798	1.10e7	9.00e6	5398.1	3216.4	NO	bb	bb	198.831
1234678-HpCDD	39.327	1.001	5.765e5	5.133e5	1.268	1.123	1.050	2500	2279	8.26e6	7.74e6	3303.7	3394.6	NO	bd	bb	202.383
OCDD	43.768	1.000	7.659e5	8.625e5	1.089	0.888	0.890	3485	2089	9.07e6	1.03e7	2604.3	4952.0	NO	bb	bb	388.025
13C-2378-TCDF	24.762	1.007	6.088e5	7.633e5	1.751	0.798	0.770	3356	2059	9.08e6	1.14e7	2706.2	5547.6	NO	bb	bb	103.172
13C-12378-PeCDF	28.888	1.174	6.795e5	4.360e5	1.442	1.558	1.550	2485	1951	1.01e7	6.61e6	4080.5	3388.9	NO	bb	bb	101.895
13C-23478-PeCDF	30.236	1.229	6.526e5	4.131e5	1.366	1.580	1.550	2485	1951	9.84e6	6.29e6	3961.8	3224.1	NO	bb	bb	102.757
13C-123478-HxCDF	33.891	0.953	2.664e5	5.330e5	1.095	0.500	0.510	2246	3548	4.08e6	8.06e6	1815.5	2271.0	NO	bd	bd	100.884
13C-123678-HxCDF	34.035	0.957	2.844e5	5.685e5	1.168	0.500	0.510	2246	3548	4.21e6	8.36e6	1875.9	2355.0	NO	db	db	100.916
13C-234678-HxCDF	34.927	0.982	2.452e5	5.272e5	1.023	0.465	0.510	2246	3548	3.88e6	7.74e6	1726.2	2181.9	NO	bb	bd	104.326
13C-123789-HxCDF	35.974	1.011	2.161e5	4.459e5	0.879	0.484	0.510	2246	3548	3.27e6	6.39e6	1456.8	1799.9	NO	bb	bd	104.079
13C-1234678-HpCDF	37.868	1.064	2.101e5	4.645e5	0.925	0.452	0.440	1956	2536	3.23e6	7.23e6	1649.4	2849.5	NO	bb	bb	100.709
13C-1234789-HpCDF	39.996	1.124	1.656e5	3.879e5	0.715	0.427	0.440	1956	2536	2.37e6	5.33e6	1209.7	2101.6	NO	bb	bd	106.976
13C-1234-TCDD	24.596	0.000	3.312e5	4.282e5	1.000	0.774	0.770	2035	1581	5.18e6	6.70e6	2542.6	4234.7	NO	bb	bb	100.000
13C-2378-TCDD	25.412	1.033	3.588e5	4.588e5	1.081	0.782	0.770	2035	1581	5.16e6	6.60e6	2536.4	4174.8	NO	bb	bb	99.561
13C-12378-PeCDD	30.504	1.240	3.726e5	2.334e5	0.776	1.597	1.550	1388	1257	5.32e6	3.35e6	3833.1	2665.4	NO	bb	bb	102.781
13C-123478-HxCDD	35.060	0.986	4.020e5	3.159e5	0.975	1.273	1.240	1598	1773	6.27e6	4.92e6	3926.3	2777.5	NO	bd	bd	101.744
13C-123678-HxCDD	35.183	0.989	4.344e5	3.322e5	1.067	1.308	1.240	1598	1773	6.45e6	5.14e6	4036.3	2897.3	NO	db	db	99.311
13C-1234678-HpCDD	39.305	1.105	2.209e5	2.038e5	0.582	1.084	1.050	1420	1367	3.35e6	3.10e6	2356.0	2266.2	NO	bb	bb	100.873
13C-OCDD	43.750	1.230	3.826e5	3.879e5	0.509	0.986	0.890	1947	1847	4.30e6	4.66e6	2210.5	2523.4	NO	bd	bb	209.324
13C-123789-HxCDD	35.573	0.000	4.047e5	3.191e5	1.000	1.268	1.240	1598	1773	6.08e6	4.95e6	3805.2	2794.8	NO	bb	bb	100.000
37CL-2378-TCDD	25.427	1.034	3.261e5		1.120			1788		4.90e6		2741.5			bb		38.338

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
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ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.300		0.770	1397	2070								
1289-TCDF					0.931		0.770	1397	2070								
13468-PECDF					1.308		1.550	801	790								
12389-PECDF					0.860		1.550	3458	2900								
123468-HXCDF					1.156		1.240	4506	2582								
1368-TCDD					1.151		0.770	1756	1308								
1289-TCDD					0.950		0.770	1756	1308								
12479-PECDD					2.164		1.550	1885	1332								
12389-PECDD					1.371		1.550	1885	1332								
124679-HXCDD					1.153		1.240	2036	2798								
1234679-HPCDD					1.473		1.050	2500	2279								
Total-tetrafurans			2.335e5		1.072			1397		3.35e6							39.783
Total-penta1			1.476e2					801		1.91e3							0.024
Total-pentafurans			2.497e6		0.924			3458		3.82e7							396.895
Total-hexafurans			3.479e6		1.063			4506		5.16e7							787.489
Total-heptafurans			1.528e6		1.218			2976		2.26e7							399.882
Total-Furans			8.702e6		1.090			1397		1.27e8							2027.458
Total-tetradoxins			1.730e5		1.090			1756		2.54e6							40.064
Total-pentadoxins			8.603e5		1.562			1885		1.31e7							199.716
Total-hexadoxins			2.224e6		0.978			2036		3.41e7							598.116
Total-heptadoxins			5.765e5		1.371			2500		8.26e6							202.383
Total-Dioxins			4.599e6		1.207			1756		6.71e7							1428.302
Total-TEQ			1.330e7					1756		1.94e8							3455.760
FUNCTION1 PFK			6.359e5					773325		3.19e6							
FUNCTION2 PFK			4.510e5					514931		1.35e7							0.000
FUNCTION3 PFK			1.160e6					415856		1.78e7							0.000
FUNCTION4 PFK			1.876e5					337311		6.19e6							
FUNCTION5 PFK			3.060e6					217955		3.99e7							
FUNCTION1 HXCDPE			8.966e2					819		1.34e4							0.000
FUNCTION1 HPCDPE			6.167e2					927		1.08e4							0.000
FUNCTION2 HPCDPE			1.380e3					837		2.17e4							0.000
FUNCTION3 OCDPE			7.532e2					985		1.31e4							0.000
FUNCTION4 NCDPE			8.188e2					1001		1.59e4							0.000
FUNCTION5 DCDPE			1.866e2					705		2.09e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:55 Pacific Daylight Time

**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**

**Calibration: 24 Mar 2022 08:56:14**

**ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.78	2.301e5	3.000e5	0.985	0.77	0.77	2361.9	YES	NO	bb	bb	39.233
2	Total-tetrafurans	23.89	1.546e3	2.027e3	1.072	0.76	0.77	17.0	YES	NO	bb	bb	0.243
3	Total-tetrafurans	23.55	1.869e3	2.645e3	1.072	0.71	0.77	21.1	YES	NO	bd	bb	0.307

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	26.97	1.476e2	9.835e1		1.50	1.55	2.4	NO	NO	bb	bb	0.024

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	30.26	1.272e6	8.329e5	1.008	1.53	1.55	5600.5	YES	NO	bb	bb	196.038
2	12378-PeCDF	28.91	1.225e6	8.039e5	0.906	1.52	1.55	5437.7	YES	NO	bb	bb	200.857

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	34.95	8.938e5	7.239e5	1.101	1.23	1.24	2991.4	YES	NO	bb	bb	190.239
2	123678-HxCDF	34.06	9.749e5	7.930e5	1.019	1.23	1.24	3102.9	YES	NO	db	db	203.316
3	123478-HxCDF	33.91	9.130e5	7.440e5	1.045	1.23	1.24	3107.0	YES	NO	bd	bd	198.280
4	Total-hexafurans	33.76	8.606e2	7.473e2	1.063	1.15	1.24	3.2	YES	NO	bb	bb	0.196
5	123789-HxCDF	35.99	6.967e5	5.872e5	0.992	1.19	1.24	2256.1	YES	NO	bb	bd	195.458

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	37.88	8.521e5	8.308e5	1.243	1.03	1.05	4492.1	YES	NO	bb	bb	200.652
2	1234789-HpCDF	40.02	6.758e5	6.388e5	1.192	1.06	1.05	3114.2	YES	NO	bd	bb	199.231

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323\CIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:55 Pacific Daylight Time

**ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.78	2.301e5	3.000e5	0.985	0.77	0.77	2361.9	YES	NO	bb	bb	39.233
2	Total-tetrafurans	23.89	1.546e3	2.027e3	1.072	0.76	0.77	17.0	YES	NO	bb	bb	0.243
3	Total-tetrafurans	23.55	1.869e3	2.645e3	1.072	0.71	0.77	21.1	YES	NO	bd	bb	0.307
4	23478-PeCDF	30.26	1.272e6	8.329e5	1.008	1.53	1.55	5600.5	YES	NO	bb	bb	196.038
5	12378-PeCDF	28.91	1.225e6	8.039e5	0.906	1.52	1.55	5437.7	YES	NO	bb	bb	200.857
6	234678-HxCDF	34.95	8.938e5	7.239e5	1.101	1.23	1.24	2991.4	YES	NO	bb	bb	190.239
7	123678-HxCDF	34.06	9.749e5	7.930e5	1.019	1.23	1.24	3102.9	YES	NO	db	db	203.316
8	123478-HxCDF	33.91	9.130e5	7.440e5	1.045	1.23	1.24	3107.0	YES	NO	bd	bd	198.280
9	Total-hexafurans	33.76	8.606e2	7.473e2	1.063	1.15	1.24	3.2	YES	NO	bb	bb	0.196
10	123789-HxCDF	35.99	6.967e5	5.872e5	0.992	1.19	1.24	2256.1	YES	NO	bb	bd	195.458
11	1234678-HpCDF	37.88	8.521e5	8.308e5	1.243	1.03	1.05	4492.1	YES	NO	bb	bb	200.652
12	1234789-HpCDF	40.02	6.758e5	6.388e5	1.192	1.06	1.05	3114.2	YES	NO	bd	bb	199.231
13	OCDF	43.98	9.641e5	1.061e6	1.303	0.91	0.89	3340.2	YES	NO	bb	bb	403.385
14	Total-penta1	26.97	1.476e2	9.835e1		1.50	1.55	2.4	NO	NO	bb	bb	0.024

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	25.43	1.730e5	2.095e5	1.168	0.83	0.77	1445.7	YES	NO	bd	bb	40.064

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	30.51	8.583e5	5.332e5	1.152	1.61	1.55	6944.8	YES	NO	bb	bb	199.373
2	Total-pentadioxins	29.84	1.112e3	6.742e2	1.562	1.65	1.55	8.1	YES	NO	bb	bb	0.189
3	Total-pentadioxins	28.92	9.281e2	5.263e2	1.562	1.76	1.55	6.3	YES	NO	bb	bb	0.154

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	35.99	1.794e3	1.385e3	0.978	1.29	1.24	18.4	YES	NO	dd	bb	0.438
2	123789-HxCDD	35.58	7.078e5	5.809e5	0.873	1.22	1.24	5398.1	YES	NO	bb	bb	198.831
3	123678-HxCDD	35.19	7.855e5	6.694e5	0.950	1.17	1.24	5824.1	YES	NO	db	db	199.700
4	123478-HxCDD	35.08	7.286e5	6.068e5	0.934	1.20	1.24	5498.2	YES	NO	bd	bd	199.147

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
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**ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk**

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.33	5.765e5	5.133e5	1.268	1.12	1.05	3303.7	YES	NO	bd	bb	202.383

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	25.43	1.730e5	2.095e5	1.168	0.83	0.77	1445.7	YES	NO	bd	bb	40.064
2	12378-PeCDD	30.51	8.583e5	5.332e5	1.152	1.61	1.55	6944.8	YES	NO	bb	bb	199.373
3	Total-pentadioxins	29.84	1.112e3	6.742e2	1.562	1.65	1.55	8.1	YES	NO	bb	bb	0.189
4	Total-pentadioxins	28.92	9.281e2	5.263e2	1.562	1.76	1.55	6.3	YES	NO	bb	bb	0.154
5	Total-hexadioxins	35.99	1.794e3	1.385e3	0.978	1.29	1.24	18.4	YES	NO	dd	bb	0.438
6	123789-HxCDD	35.58	7.078e5	5.809e5	0.873	1.22	1.24	5398.1	YES	NO	bb	bb	198.831
7	123678-HxCDD	35.19	7.855e5	6.694e5	0.950	1.17	1.24	5824.1	YES	NO	db	db	199.700
8	123478-HxCDD	35.08	7.286e5	6.068e5	0.934	1.20	1.24	5498.2	YES	NO	bd	bd	199.147
9	1234678-HpCDD	39.33	5.765e5	5.133e5	1.268	1.12	1.05	3303.7	YES	NO	bd	bb	202.383
10	OCDD	43.77	7.659e5	8.625e5	1.089	0.89	0.89	2604.3	YES	NO	bb	bb	388.025

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk**

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.78	2.301e5	3.000e5	0.985	0.77	0.77	2361.9	YES	NO	bb	bb	39.233
2	Total-tetrafurans	23.89	1.546e3	2.027e3	1.072	0.76	0.77	17.0	YES	NO	bb	bb	0.243
3	Total-tetrafurans	23.55	1.869e3	2.645e3	1.072	0.71	0.77	21.1	YES	NO	bd	bb	0.307
4	23478-PeCDF	30.26	1.272e6	8.329e5	1.008	1.53	1.55	5600.5	YES	NO	bb	bb	196.038
5	12378-PeCDF	28.91	1.225e6	8.039e5	0.906	1.52	1.55	5437.7	YES	NO	bb	bb	200.857
6	234678-HxCDF	34.95	8.938e5	7.239e5	1.101	1.23	1.24	2991.4	YES	NO	bb	bb	190.239
7	123678-HxCDF	34.06	9.749e5	7.930e5	1.019	1.23	1.24	3102.9	YES	NO	db	db	203.316
8	123478-HxCDF	33.91	9.130e5	7.440e5	1.045	1.23	1.24	3107.0	YES	NO	bd	bd	198.280
9	Total-hexafurans	33.76	8.606e2	7.473e2	1.063	1.15	1.24	3.2	YES	NO	bb	bb	0.196
10	123789-HxCDF	35.99	6.967e5	5.872e5	0.992	1.19	1.24	2256.1	YES	NO	bb	bd	195.458
11	1234678-HpCDF	37.88	8.521e5	8.308e5	1.243	1.03	1.05	4492.1	YES	NO	bb	bb	200.652
12	1234789-HpCDF	40.02	6.758e5	6.388e5	1.192	1.06	1.05	3114.2	YES	NO	bd	bb	199.231
13	OCDF	43.98	9.641e5	1.061e6	1.303	0.91	0.89	3340.2	YES	NO	bb	bb	403.385
14	Total-penta1	26.97	1.476e2	9.835e1		1.50	1.55	2.4	NO	NO	bb	bb	0.024
15	2378-TCDD	25.43	1.730e5	2.095e5	1.168	0.83	0.77	1445.7	YES	NO	bd	bb	40.064
16	12378-PeCDD	30.51	8.583e5	5.332e5	1.152	1.61	1.55	6944.8	YES	NO	bb	bb	199.373
17	Total-pentadioxins	29.84	1.112e3	6.742e2	1.562	1.65	1.55	8.1	YES	NO	bb	bb	0.189
18	Total-pentadioxins	28.92	9.281e2	5.263e2	1.562	1.76	1.55	6.3	YES	NO	bb	bb	0.154
19	Total-hexadioxins	35.99	1.794e3	1.385e3	0.978	1.29	1.24	18.4	YES	NO	dd	bb	0.438
20	123789-HxCDD	35.58	7.078e5	5.809e5	0.873	1.22	1.24	5398.1	YES	NO	bb	bb	198.831
21	123678-HxCDD	35.19	7.855e5	6.694e5	0.950	1.17	1.24	5824.1	YES	NO	db	db	199.700
22	123478-HxCDD	35.08	7.286e5	6.068e5	0.934	1.20	1.24	5498.2	YES	NO	bd	bd	199.147
23	1234678-HpCDD	39.33	5.765e5	5.133e5	1.268	1.12	1.05	3303.7	YES	NO	bd	bb	202.383
24	OCDD	43.77	7.659e5	8.625e5	1.089	0.89	0.89	2604.3	YES	NO	bb	bb	388.025

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.16	5.436e5					1.4	NO		bb		
2	FUNCTION1 PFK	20.66	9.230e4					2.7	NO		bb		



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:55 Pacific Daylight Time

**ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk**

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	27.34	2.396e4					1.5	NO		bd		0.000
2	FUNCTION2 PFK	27.19	1.027e5					4.0	YES		db		0.000
3	FUNCTION2 PFK	27.15	1.159e5					6.2	YES		bd		0.000
4	FUNCTION2 PFK	31.44	3.172e3					0.6	NO		bb		0.000
5	FUNCTION2 PFK	30.98	2.761e3					0.5	NO		bb		0.000
6	FUNCTION2 PFK	30.58	1.462e4					1.2	NO		bb		0.000
7	FUNCTION2 PFK	30.36	2.283e4					1.6	NO		bb		0.000
8	FUNCTION2 PFK	30.24	3.143e3					0.5	NO		bb		0.000
9	FUNCTION2 PFK	30.07	1.892e4					1.0	NO		db		0.000
10	FUNCTION2 PFK	30.00	1.151e4					0.9	NO		bd		0.000
11	FUNCTION2 PFK	29.58	2.925e4					1.5	NO		bb		0.000
12	FUNCTION2 PFK	28.78	1.347e4					1.0	NO		bb		0.000
13	FUNCTION2 PFK	28.62	2.755e4					1.4	NO		bb		0.000
14	FUNCTION2 PFK	28.53	2.367e3					0.4	NO		bb		0.000
15	FUNCTION2 PFK	28.49	5.733e3					0.7	NO		bb		0.000
16	FUNCTION2 PFK	28.10	6.079e3					0.6	NO		bb		0.000
17	FUNCTION2 PFK	27.47	1.980e4					1.2	NO		db		0.000
18	FUNCTION2 PFK	27.40	2.715e4					1.4	NO		dd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk**

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.12	1.770e3					0.4	NO		bb		0.000
2	FUNCTION3 PFK	35.07	2.330e3					0.4	NO		db		0.000
3	FUNCTION3 PFK	35.04	1.095e4					1.0	NO		bd		0.000
4	FUNCTION3 PFK	34.64	2.163e4					1.1	NO		bb		0.000
5	FUNCTION3 PFK	34.54	1.226e4					1.3	NO		bb		0.000
6	FUNCTION3 PFK	34.10	1.329e4					1.1	NO		bb		0.000
7	FUNCTION3 PFK	33.80	1.701e3					0.4	NO		bb		0.000
8	FUNCTION3 PFK	33.76	1.551e3					0.3	NO		bb		0.000
9	FUNCTION3 PFK	33.70	5.403e3					0.6	NO		bb		0.000
10	FUNCTION3 PFK	33.66	5.166e3					0.7	NO		bb		0.000
11	FUNCTION3 PFK	33.01	2.586e4					1.4	NO		bb		0.000
12	FUNCTION3 PFK	32.85	2.179e4					1.5	NO		bb		0.000
13	FUNCTION3 PFK	32.41	1.042e4					1.1	NO		db		0.000
14	FUNCTION3 PFK	32.39	1.435e4					1.5	NO		bd		0.000
15	FUNCTION3 PFK	32.05	2.739e5					3.8	YES		db		0.000
16	FUNCTION3 PFK	31.86	5.570e5					13.4	YES		bd		0.000
17	FUNCTION3 PFK	36.83	1.780e3					0.4	NO		bb		0.000
18	FUNCTION3 PFK	36.75	4.878e4					1.8	NO		bb		0.000
19	FUNCTION3 PFK	36.48	7.317e3					0.6	NO		bb		0.000
20	FUNCTION3 PFK	36.26	1.532e4					0.9	NO		db		0.000
21	FUNCTION3 PFK	36.20	1.492e4					1.0	NO		bd		0.000
22	FUNCTION3 PFK	35.92	1.065e4					0.7	NO		bb		0.000
23	FUNCTION3 PFK	35.68	1.250e4					1.1	NO		bb		0.000
24	FUNCTION3 PFK	35.64	1.713e3					0.4	NO		bb		0.000
25	FUNCTION3 PFK	35.36	1.834e4					1.5	NO		db		0.000
26	FUNCTION3 PFK	35.33	1.110e4					1.0	NO		bd		0.000
27	FUNCTION3 PFK	35.27	3.094e4					2.3	NO		db		0.000
28	FUNCTION3 PFK	35.22	5.824e3					0.6	NO		bd		0.000
29	FUNCTION3 PFK	35.18	1.586e3					0.3	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	37.14	5.321e4					1.9	NO		bb		
2	FUNCTION4 PFK	36.95	2.427e4					2.5	NO		bb		
3	FUNCTION4 PFK	41.88	1.216e4					1.2	NO		bb		
4	FUNCTION4 PFK	41.81	1.847e3					0.5	NO		bb		
5	FUNCTION4 PFK	41.57	1.567e4					1.3	NO		bb		
6	FUNCTION4 PFK	41.18	5.005e3					0.8	NO		bb		
7	FUNCTION4 PFK	40.68	1.449e4					0.8	NO		bb		
8	FUNCTION4 PFK	40.12	1.835e3					0.5	NO		bb		
9	FUNCTION4 PFK	39.95	8.322e3					1.0	NO		bb		
10	FUNCTION4 PFK	39.23	1.645e3					0.4	NO		bb		
11	FUNCTION4 PFK	39.18	1.696e3					0.5	NO		bb		
12	FUNCTION4 PFK	38.99	2.086e3					0.6	NO		bb		
13	FUNCTION4 PFK	38.87	1.312e4					1.3	NO		db		
14	FUNCTION4 PFK	38.84	4.596e3					1.0	NO		bd		
15	FUNCTION4 PFK	38.31	1.583e3					0.4	NO		bb		
16	FUNCTION4 PFK	38.08	4.704e3					0.7	NO		bb		
17	FUNCTION4 PFK	37.43	7.976e3					1.3	NO		bb		
18	FUNCTION4 PFK	37.36	1.341e4					1.7	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk**

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.50	7.849e2					0.4	NO		bb		
2	FUNCTION5 PFK	43.47	6.599e2					0.3	NO		bb		
3	FUNCTION5 PFK	43.29	1.082e3					0.5	NO		bb		
4	FUNCTION5 PFK	43.26	9.920e3					1.8	NO		bb		
5	FUNCTION5 PFK	43.14	2.175e3					0.7	NO		bb		
6	FUNCTION5 PFK	42.86	1.123e5					5.3	YES		db		
7	FUNCTION5 PFK	42.78	1.377e5					7.7	YES		dd		
8	FUNCTION5 PFK	42.72	1.381e5					9.3	YES		dd		
9	FUNCTION5 PFK	42.58	2.792e5					12.6	YES		dd		
10	FUNCTION5 PFK	42.46	3.863e5					15.5	YES		dd		
11	FUNCTION5 PFK	42.33	5.223e5					18.9	YES		dd		
12	FUNCTION5 PFK	42.28	1.147e5					19.5	YES		dd		
13	FUNCTION5 PFK	42.19	5.425e5					22.1	YES		dd		
14	FUNCTION5 PFK	42.13	1.286e5					21.9	YES		dd		
15	FUNCTION5 PFK	42.07	5.103e5					24.7	YES		bd		
16	FUNCTION5 PFK	44.78	2.360e4					2.0	NO		db		
17	FUNCTION5 PFK	44.64	4.277e4					2.3	NO		bd		
18	FUNCTION5 PFK	44.55	3.315e3					0.6	NO		bb		
19	FUNCTION5 PFK	44.45	2.755e3					0.9	NO		bb		
20	FUNCTION5 PFK	44.42	1.096e4					1.7	NO		bb		
21	FUNCTION5 PFK	44.22	7.068e3					1.4	NO		bb		
22	FUNCTION5 PFK	44.17	3.268e3					0.8	NO		bb		
23	FUNCTION5 PFK	44.04	1.868e4					1.6	NO		db		
24	FUNCTION5 PFK	43.99	1.071e4					1.5	NO		bd		
25	FUNCTION5 PFK	43.93	5.190e3					1.1	NO		db		
26	FUNCTION5 PFK	43.91	6.844e3					1.2	NO		bd		
27	FUNCTION5 PFK	43.78	1.651e4					1.8	NO		db		
28	FUNCTION5 PFK	43.75	4.308e3					1.2	NO		bd		
29	FUNCTION5 PFK	43.63	2.697e3					0.8	NO		bb		
30	FUNCTION5 PFK	43.59	5.207e3					1.2	NO		db		
31	FUNCTION5 PFK	43.54	3.953e3					0.7	NO		bd		
32	FUNCTION5 PFK	44.89	5.098e3					1.0	NO		bb		

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCDPE	26.67	1.556e2					1.7	NO		bb		0.000
2	FUNCTION1 HXCDPE	26.18	8.082e1					1.3	NO		bb		0.000
3	FUNCTION1 HXCDPE	25.43	9.420e1					2.3	NO		bb		0.000
4	FUNCTION1 HXCDPE	24.97	7.200e1					1.3	NO		bb		0.000
5	FUNCTION1 HXCDPE	23.26	1.302e2					1.8	NO		db		0.000
6	FUNCTION1 HXCDPE	23.13	9.355e1					2.5	NO		bd		0.000
7	FUNCTION1 HXCDPE	22.65	8.188e1					1.7	NO		bb		0.000
8	FUNCTION1 HXCDPE	22.19	1.161e2					2.1	NO		bb		0.000
9	FUNCTION1 HXCDPE	21.12	7.226e1					1.7	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCDPE	24.75	1.748e2					4.3	YES		bb		0.000
2	FUNCTION1 HPCDPE	23.75	9.230e1					1.1	NO		bb		0.000
3	FUNCTION1 HPCDPE	23.43	1.078e2					2.6	NO		bb		0.000
4	FUNCTION1 HPCDPE	21.13	1.489e2					2.2	NO		bb		0.000
5	FUNCTION1 HPCDPE	26.46	9.293e1					1.5	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	30.16	1.380e3					26.0	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.39	7.997e1					1.3	NO		bb		0.000
2	FUNCTION3 OCDPE	35.19	2.044e2					3.0	YES		bb		0.000
3	FUNCTION3 OCDPE	34.04	1.323e2					2.2	NO		bb		0.000
4	FUNCTION3 OCDPE	33.92	1.418e2					2.2	NO		bb		0.000
5	FUNCTION3 OCDPE	33.60	8.635e1					2.7	NO		bb		0.000
6	FUNCTION3 OCDPE	32.13	1.084e2					1.8	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
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**ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk**

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.04	7.709e1					1.4	NO		bb		0.000
2	FUNCTION4 NCDPE	39.52	8.588e1					1.3	NO		bb		0.000
3	FUNCTION4 NCDPE	38.40	7.067e1					1.6	NO		bb		0.000
4	FUNCTION4 NCDPE	37.86	1.629e2					2.5	NO		db		0.000
5	FUNCTION4 NCDPE	37.79	1.174e2					1.8	NO		bd		0.000
6	FUNCTION4 NCDPE	41.49	1.035e2					2.3	NO		db		0.000
7	FUNCTION4 NCDPE	41.41	1.261e2					2.0	NO		bd		0.000
8	FUNCTION4 NCDPE	40.27	7.538e1					3.0	YES		bb		0.000

**ETHERS6**

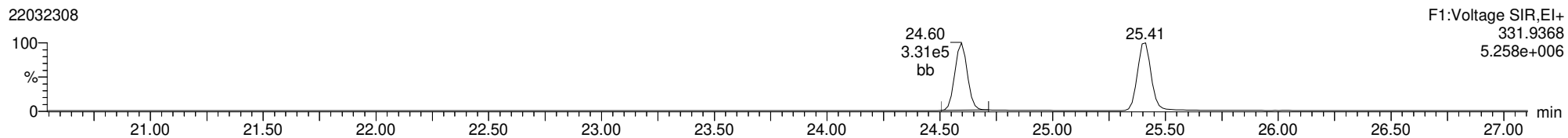
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.45	1.866e2					3.0	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
Calibration: 24 Mar 2022 08:56:14

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

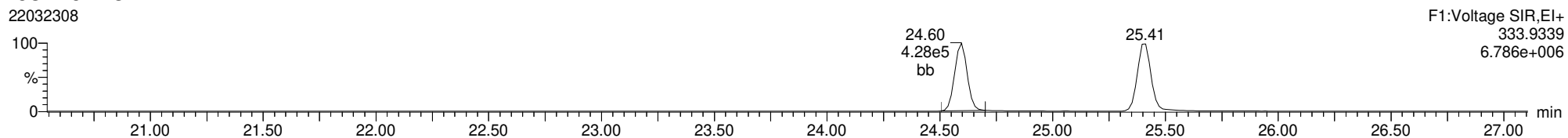
**13C-1234-TCDD**

22032308



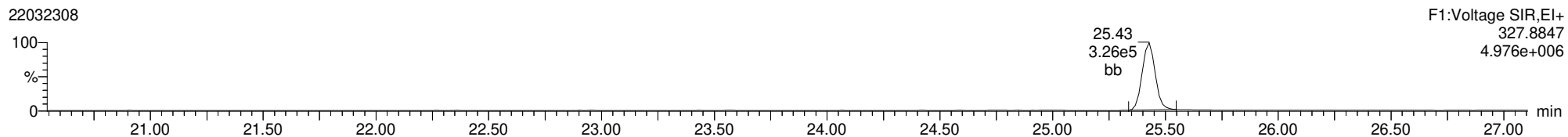
**13C-1234-TCDD**

22032308



**37CL-2378-TCDD**

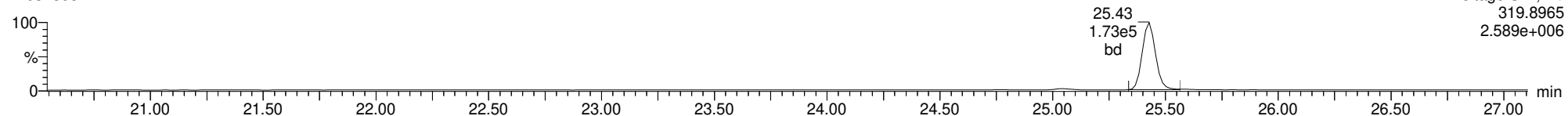
22032308



ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

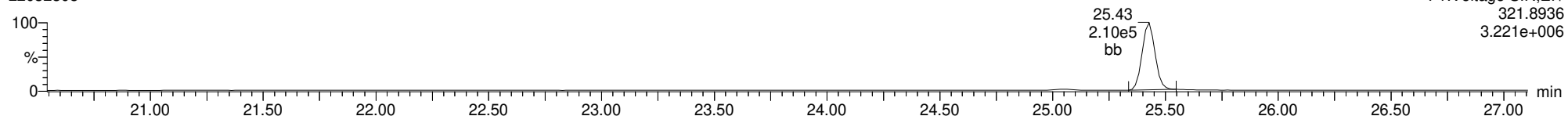
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F1:Voltage SIR,El+  
319.8965  
2.589e+006

**2378-TCDD**

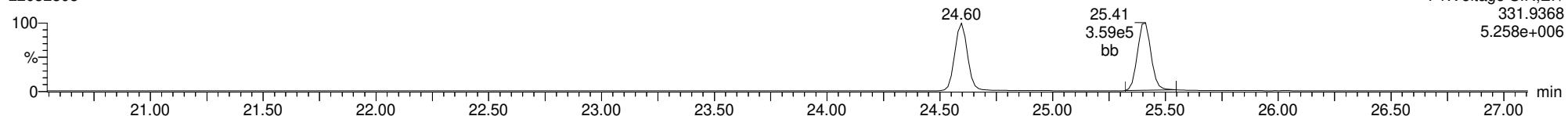
22032308



F1:Voltage SIR,El+  
321.8936  
3.221e+006

**13C-2378-TCDD**

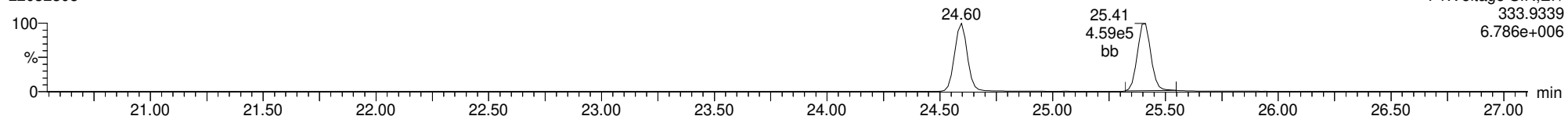
22032308



F1:Voltage SIR,El+  
331.9368  
5.258e+006

**13C-2378-TCDD**

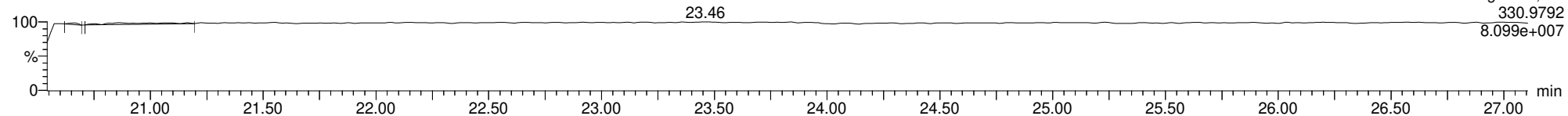
22032308



F1:Voltage SIR,El+  
333.9339  
6.786e+006

**FUNCTION1 PFK**

22032308



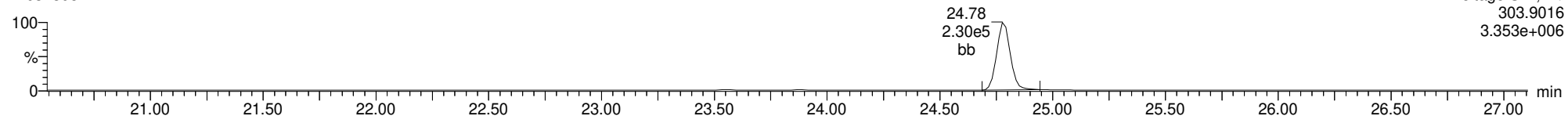
F1:Voltage SIR,El+  
330.9792  
8.099e+007



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**2378-TCDF**

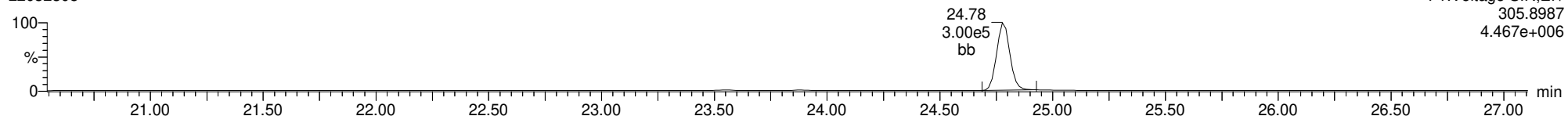
22032308



F1:Voltage SIR,El+  
303.9016  
3.353e+006

**2378-TCDF**

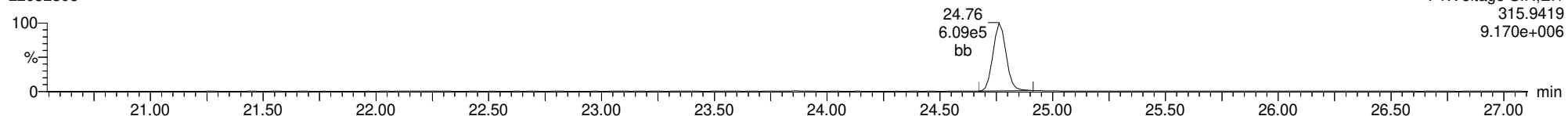
22032308



F1:Voltage SIR,El+  
305.8987  
4.467e+006

**13C-2378-TCDF**

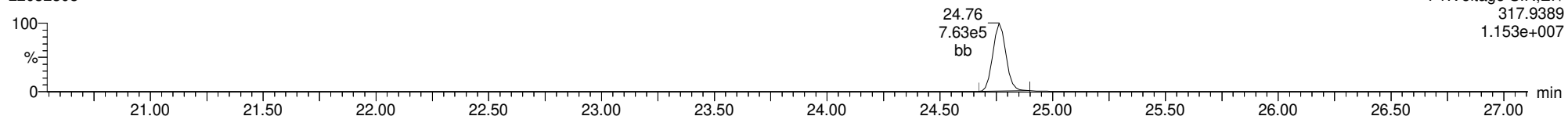
22032308



F1:Voltage SIR,El+  
315.9419  
9.170e+006

**13C-2378-TCDF**

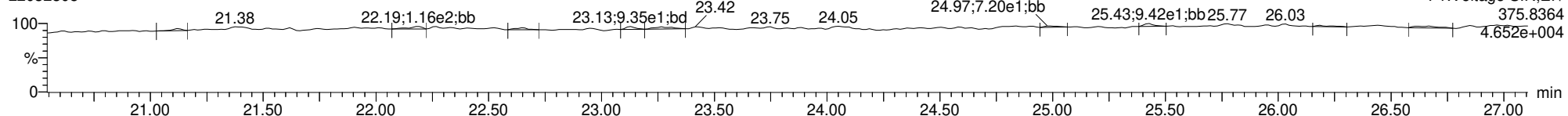
22032308



F1:Voltage SIR,El+  
317.9389  
1.153e+007

**FUNCTION1 HXCDPE**

22032308

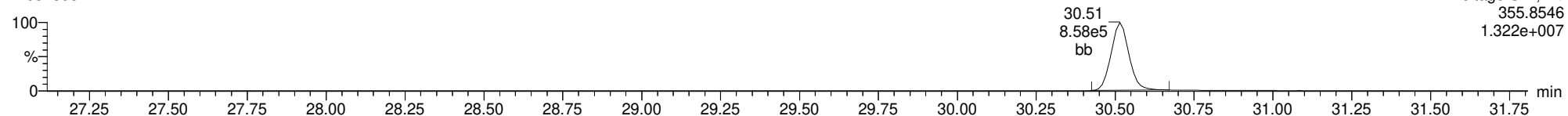


F1:Voltage SIR,El+  
375.8364  
4.652e+004

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

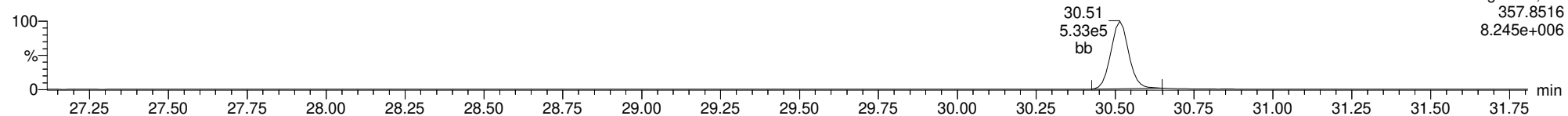
**12378-PeCDD**

22032308



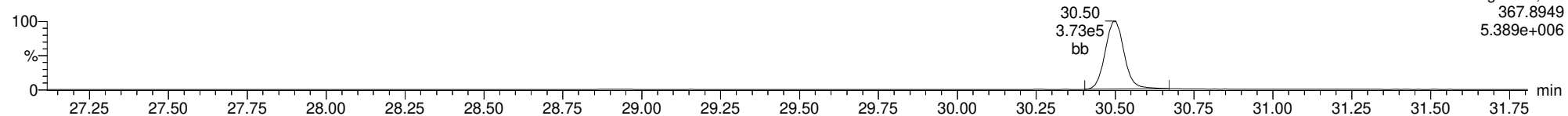
**12378-PeCDD**

22032308



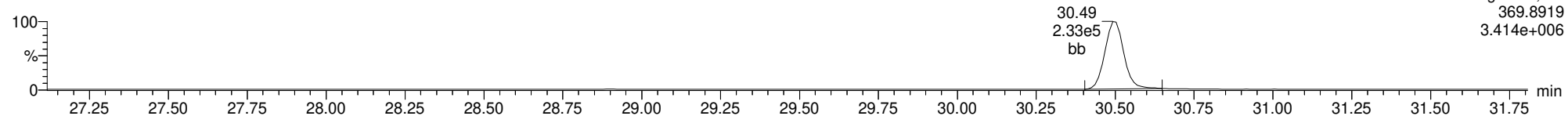
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22032308



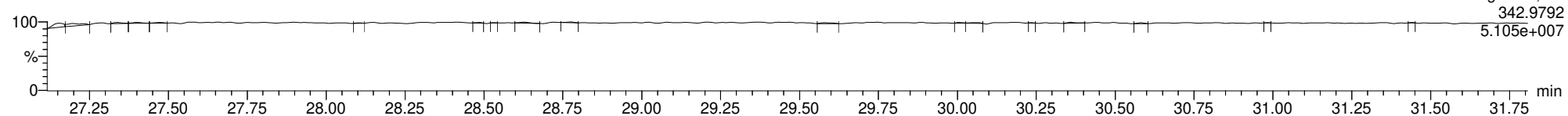
**13C-12378-PeCDD**

22032308



**FUNCTION2 PFK**

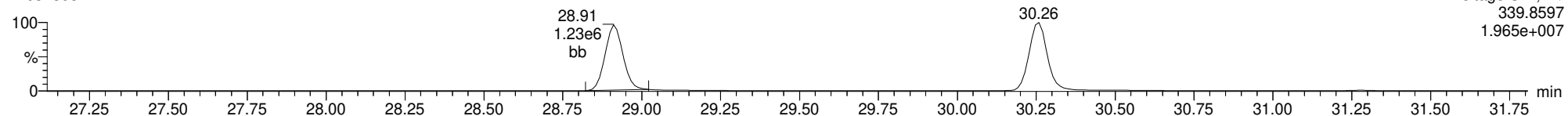
22032308



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12378-PeCDF

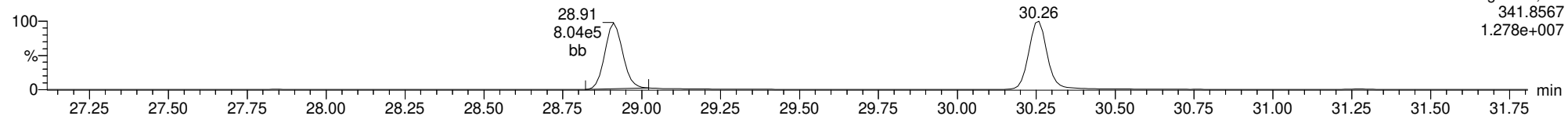
22032308



F2:Voltage SIR,El+  
339.8597  
1.965e+007

12378-PeCDF

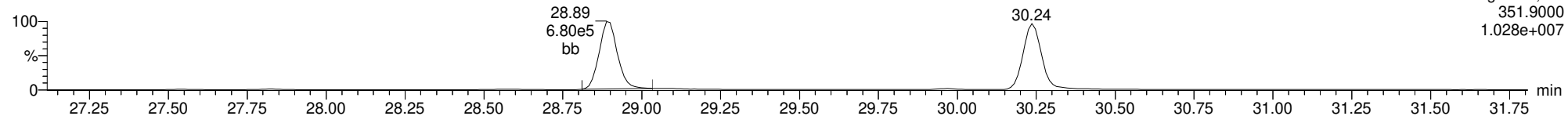
22032308



F2:Voltage SIR,El+  
341.8567  
1.278e+007

13C-12378-PeCDF

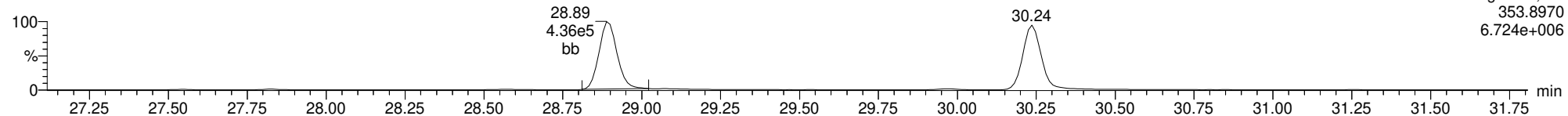
22032308



F2:Voltage SIR,El+  
351.9000  
1.028e+007

13C-12378-PeCDF

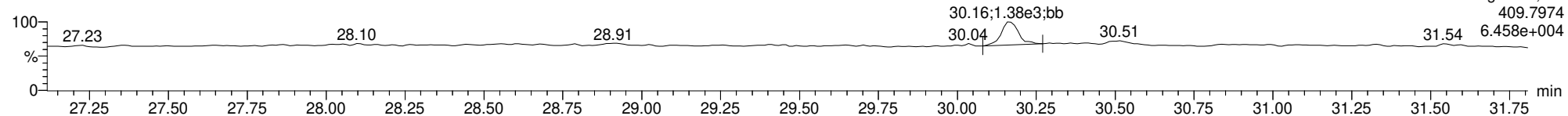
22032308



F2:Voltage SIR,El+  
353.8970  
6.724e+006

FUNCTION2 HPCDPE

22032308

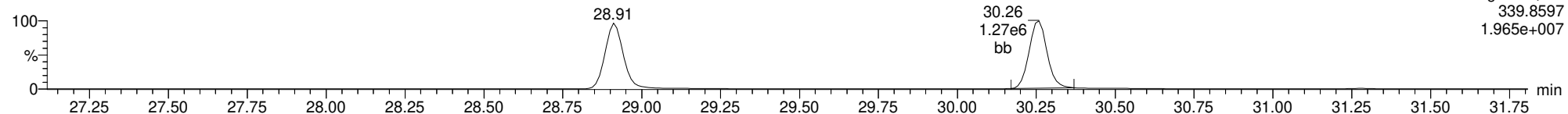


F2:Voltage SIR,El+  
409.7974  
6.458e+004

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

23478-PeCDF

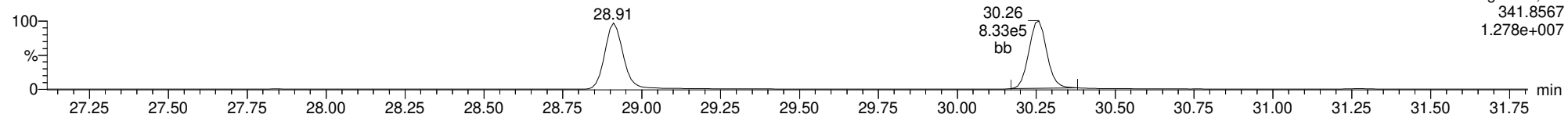
22032308



F2:Voltage SIR,El+  
339.8597  
1.965e+007

23478-PeCDF

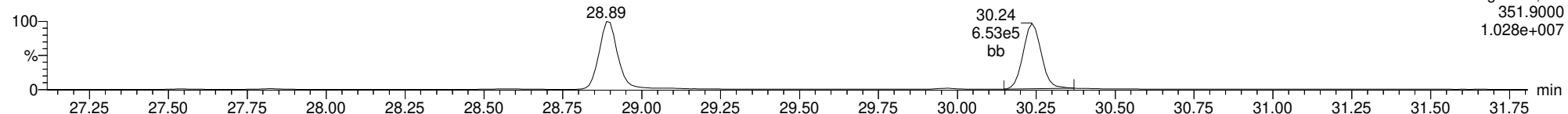
22032308



F2:Voltage SIR,El+  
341.8567  
1.278e+007

13C-23478-PeCDF

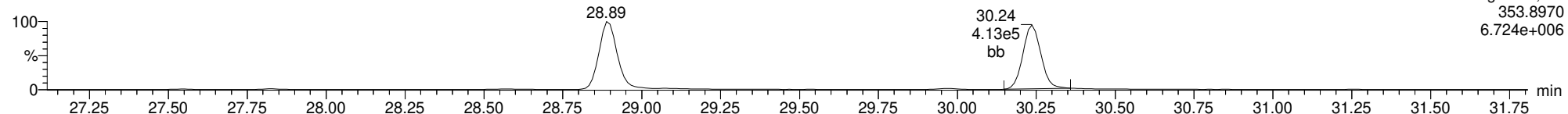
22032308



F2:Voltage SIR,El+  
351.9000  
1.028e+007

13C-23478-PeCDF

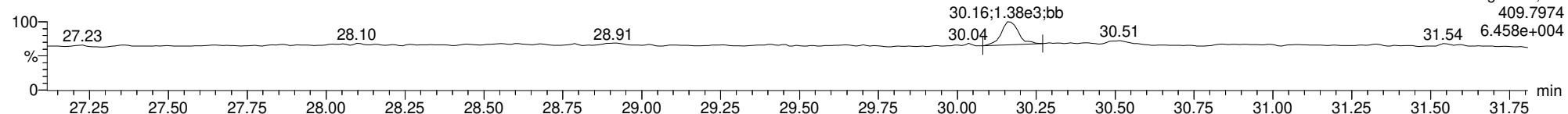
22032308



F2:Voltage SIR,El+  
353.8970  
6.724e+006

FUNCTION2 HPCDPE

22032308

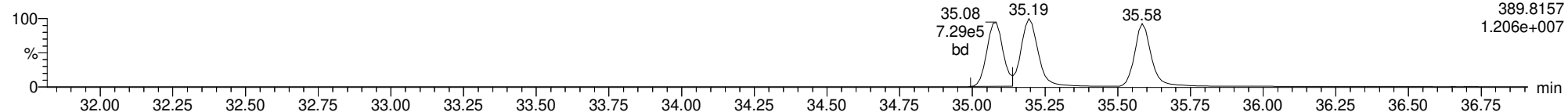


F2:Voltage SIR,El+  
409.7974  
6.458e+004

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

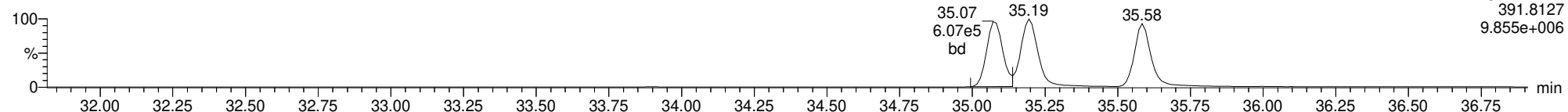
**123478-HxCDD**

22032308



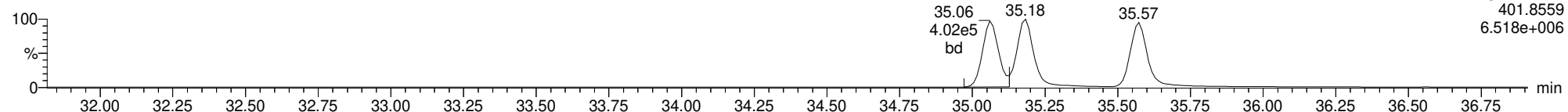
**123478-HxCDD**

22032308



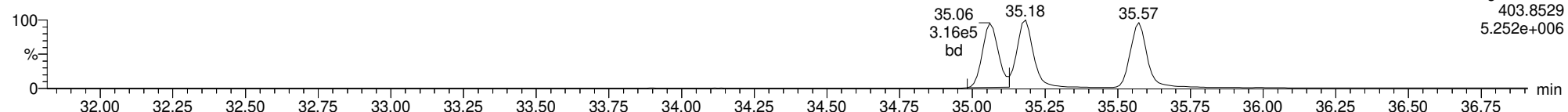
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22032308



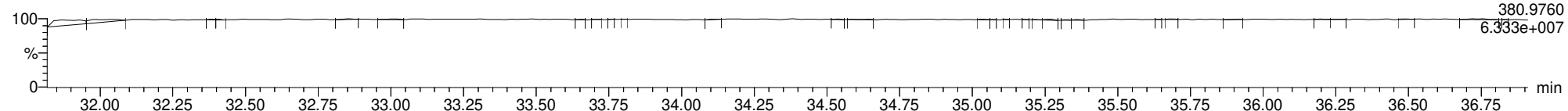
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22032308



**FUNCTION3 PFK**

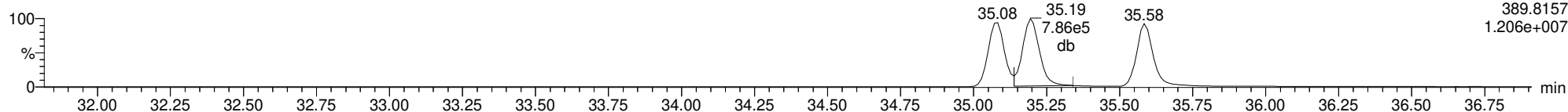
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ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

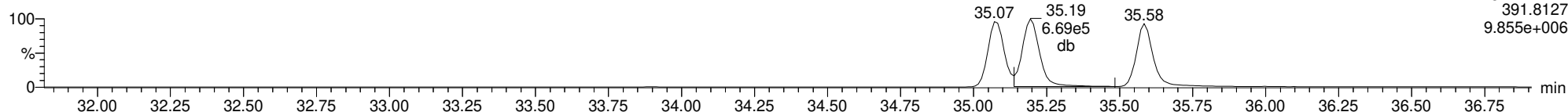
123678-HxCDD

22032308



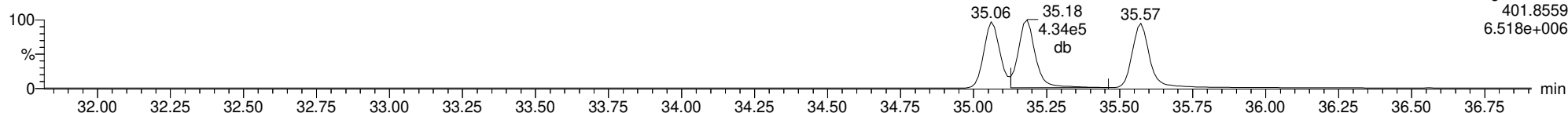
123678-HxCDD

22032308



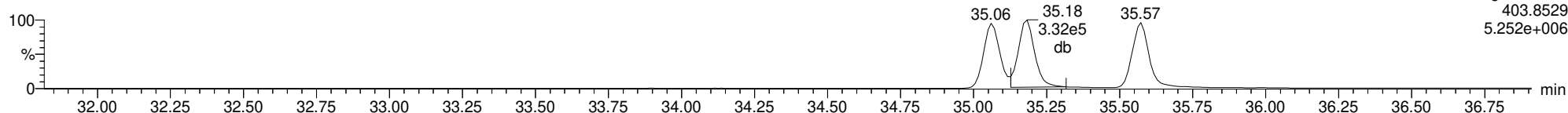
13C-123678-HxCDD

22032308



13C-123678-HxCDD

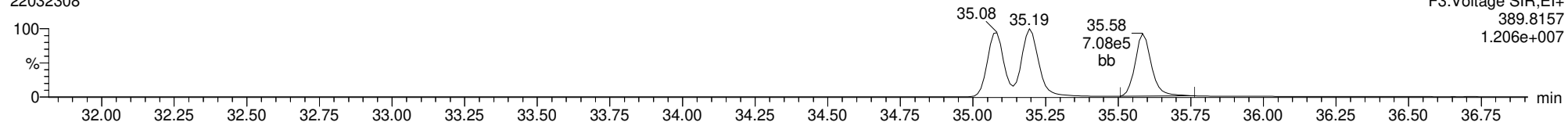
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ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

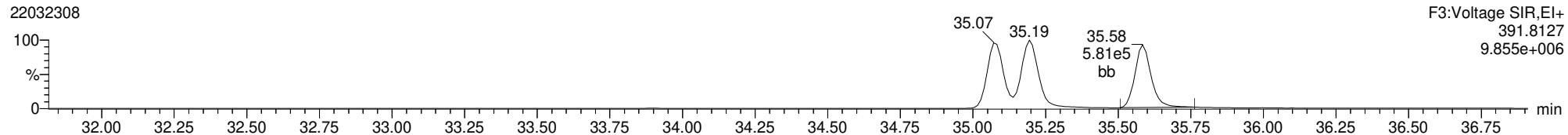
**123789-HxCDD**

22032308



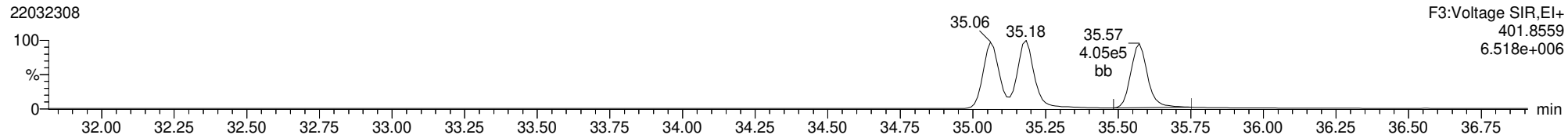
**123789-HxCDD**

22032308



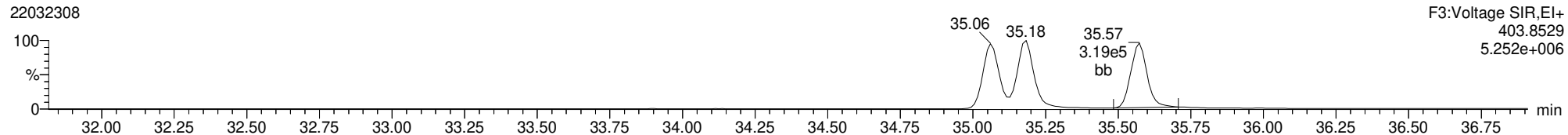
**13C-123789-HxCDD**

22032308



**13C-123789-HxCDD**

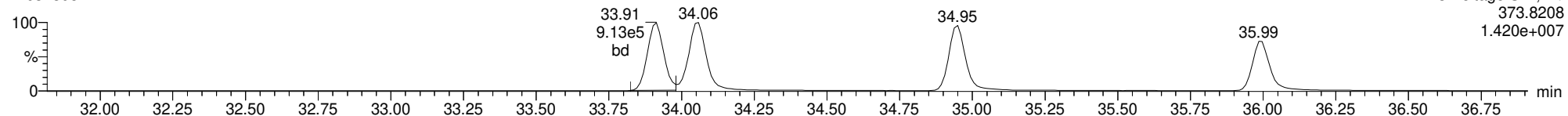
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ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

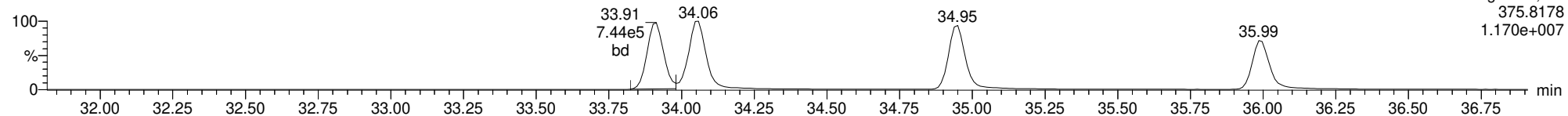
123478-HxCDF

22032308



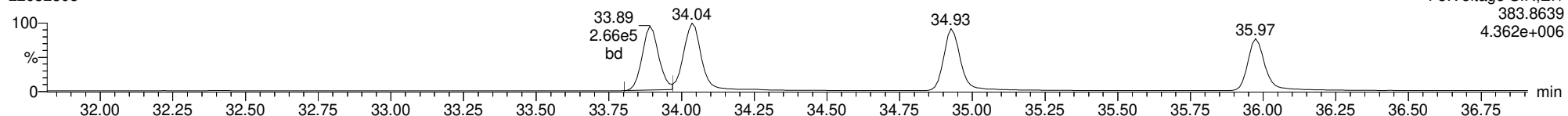
123478-HxCDF

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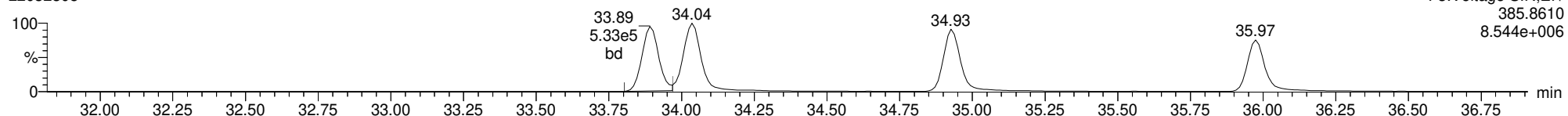
13C-123478-HxCDF

22032308



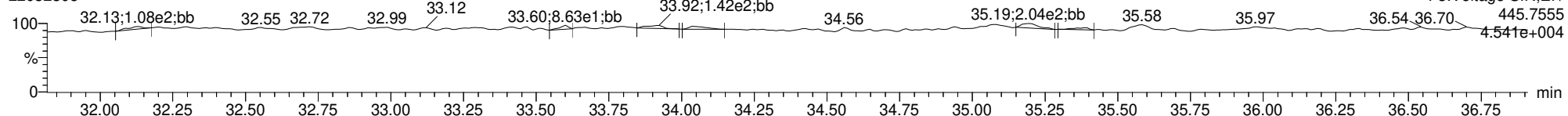
13C-123478-HxCDF

22032308



FUNCTION3 OGDPE

22032308

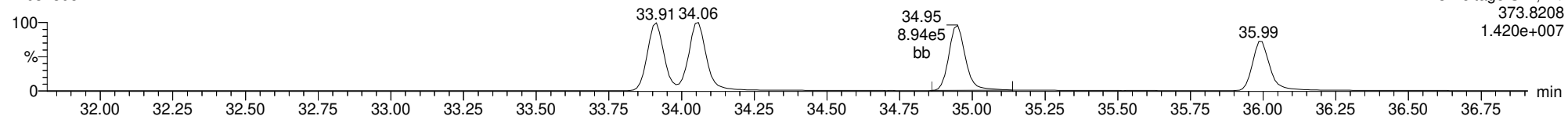




ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

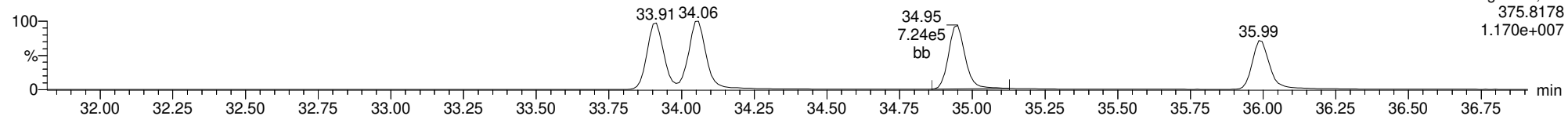
234678-HxCDF

22032308



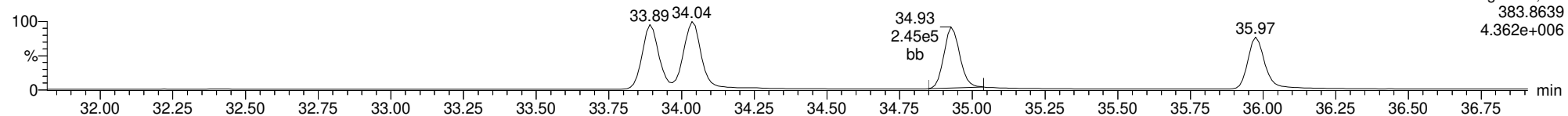
234678-HxCDF

22032308



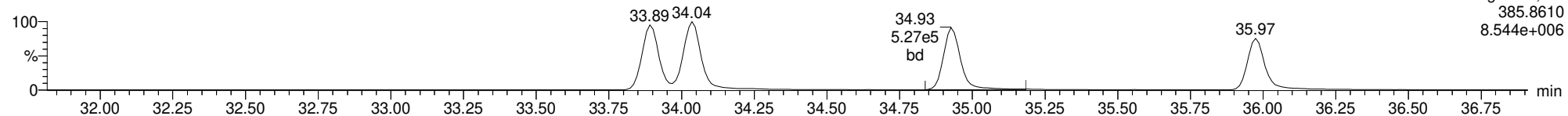
13C-234678-HxCDF

22032308



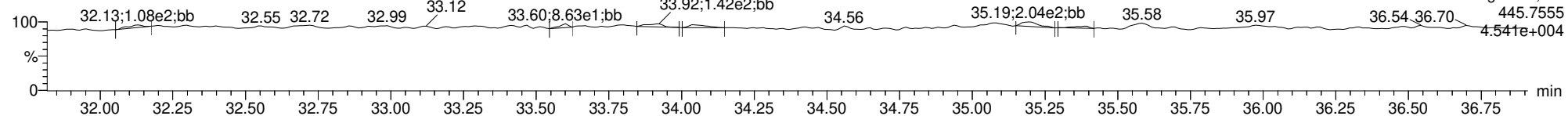
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22032308



FUNCTION3 OCPDE

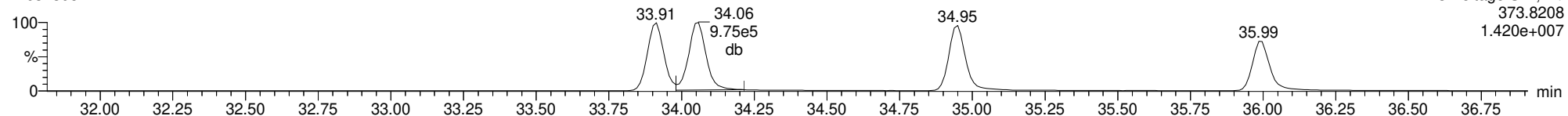
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ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

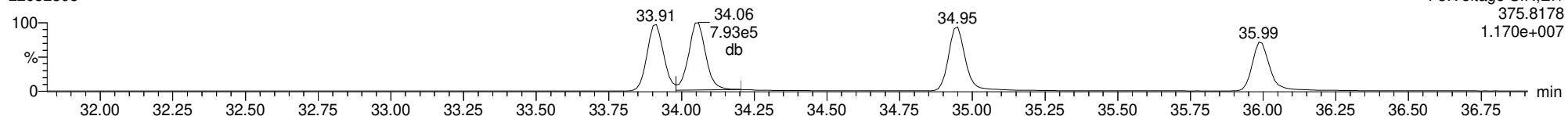
123678-HxCDF

22032308



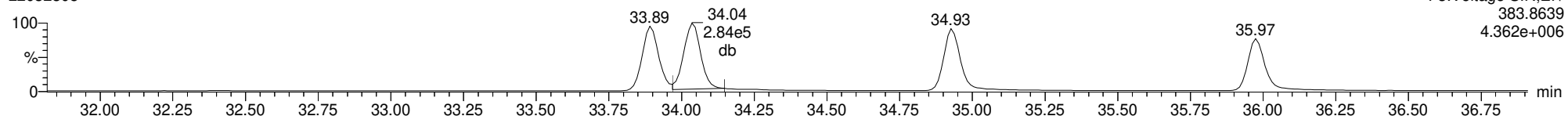
123678-HxCDF

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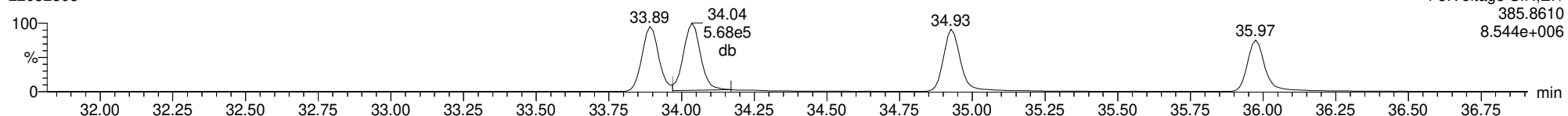
13C-123678-HxCDF

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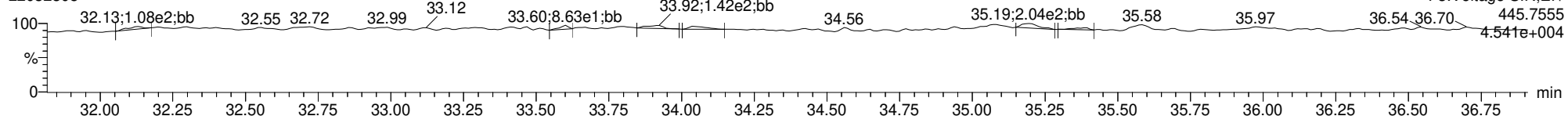
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22032308



FUNCTION3 OGDPE

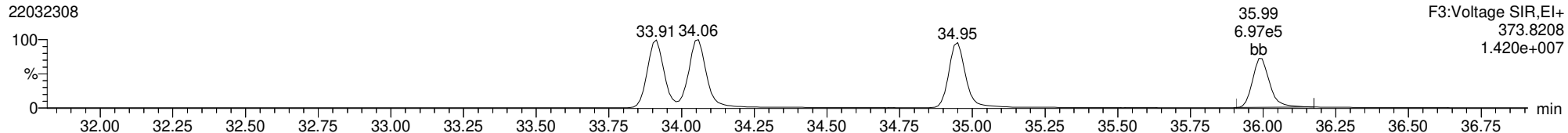
22032308



ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

123789-HxCDF

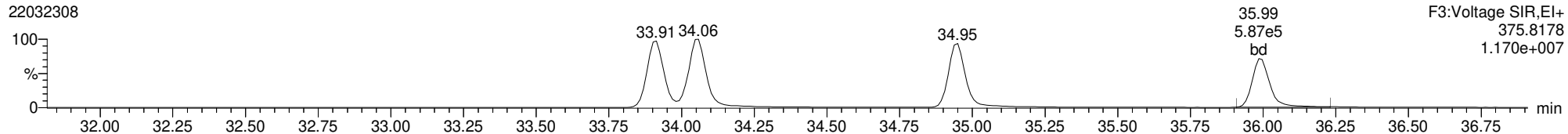
22032308



F3:Voltage SIR,El+  
373.8208  
1.420e+007

123789-HxCDF

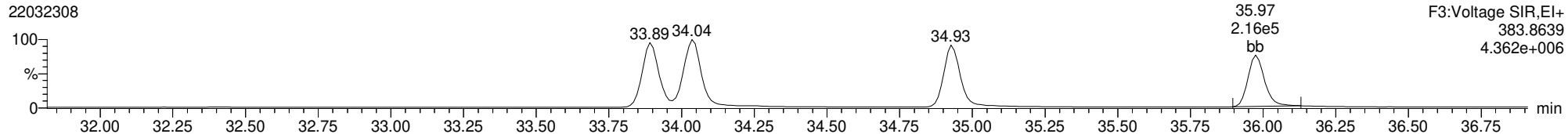
22032308



F3:Voltage SIR,El+  
375.8178  
1.170e+007

13C-123789-HxCDF

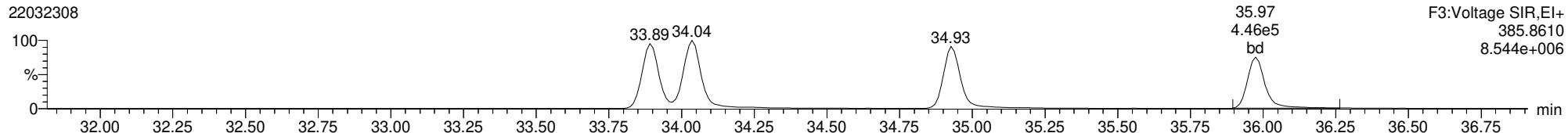
22032308



F3:Voltage SIR,El+  
383.8639  
4.362e+006

13C-123789-HxCDF

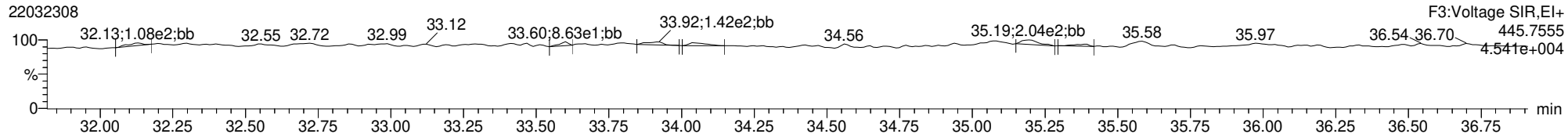
22032308



F3:Voltage SIR,El+  
385.8610  
8.544e+006

FUNCTION3 OGDPE

22032308

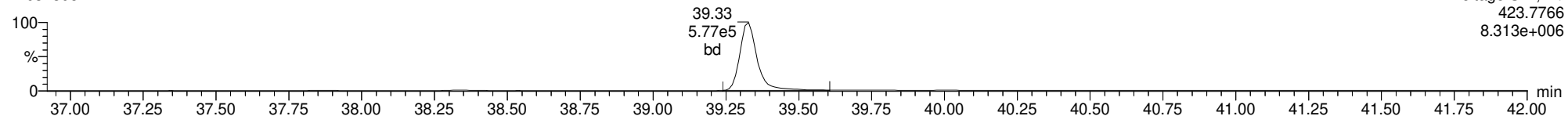


F3:Voltage SIR,El+  
445.7555  
4.541e+004

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

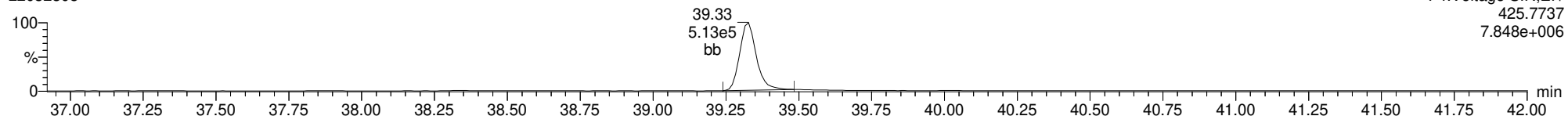
1234678-HpCDD

22032308



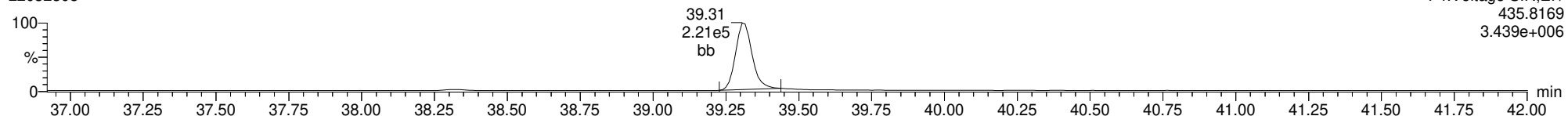
1234678-HpCDD

22032308



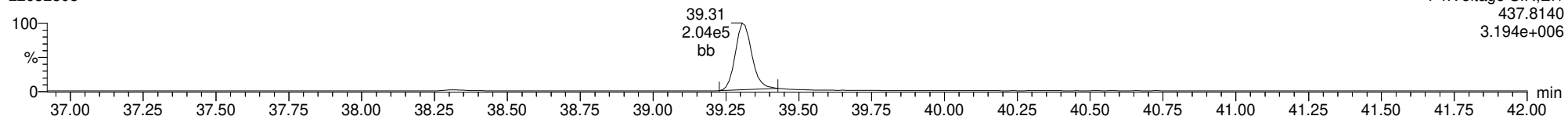
13C-1234678-HpCDD

22032308



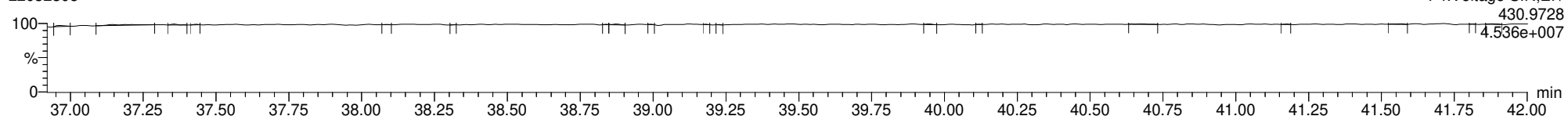
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22032308



FUNCTION4 PFK

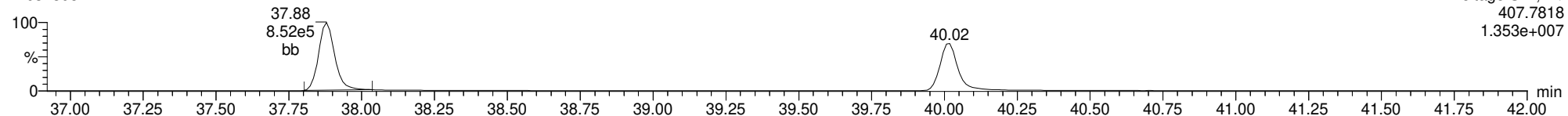
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ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

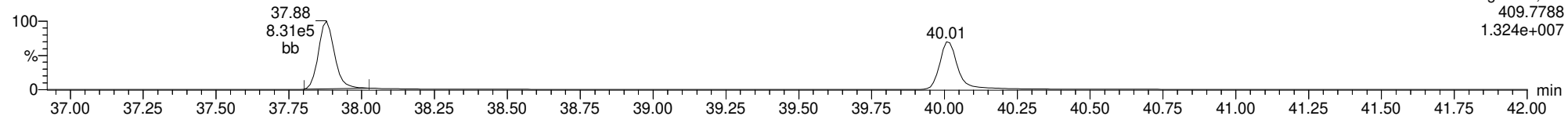
22032308



F4:Voltage SIR,El+  
407.7818  
1.353e+007

1234678-HpCDF

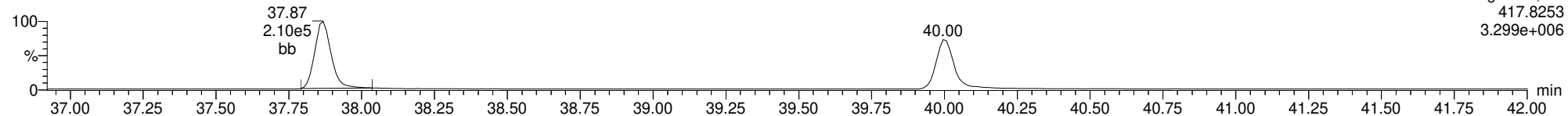
22032308



F4:Voltage SIR,El+  
409.7788  
1.324e+007

13C-1234678-HpCDF

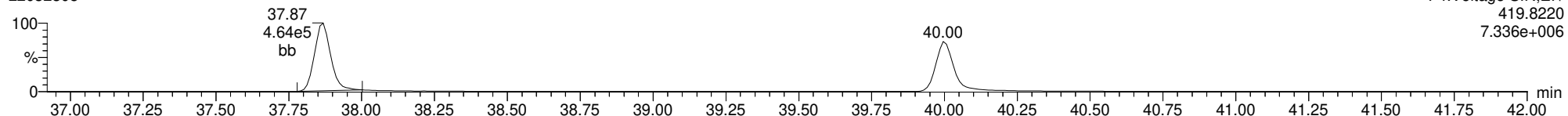
22032308



F4:Voltage SIR,El+  
417.8253  
3.299e+006

13C-1234678-HpCDF

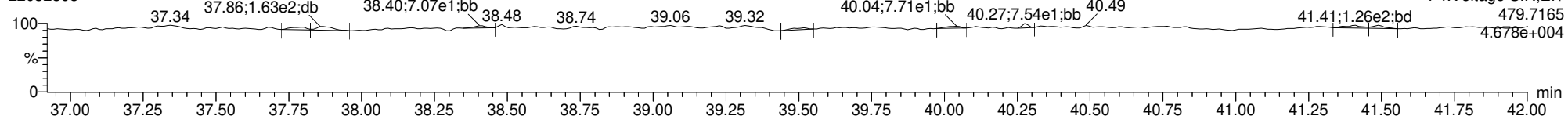
22032308



F4:Voltage SIR,El+  
419.8220  
7.336e+006

FUNCTION4 NCDPE

22032308

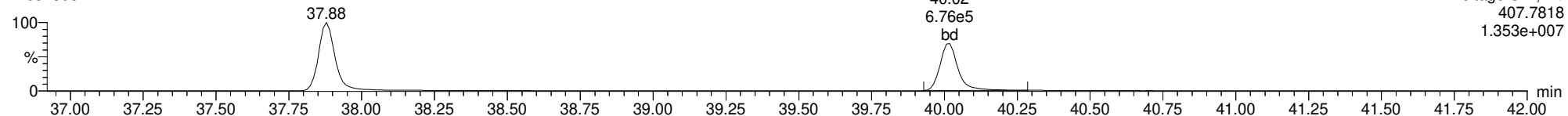


F4:Voltage SIR,El+  
479.7165  
4.678e+004

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

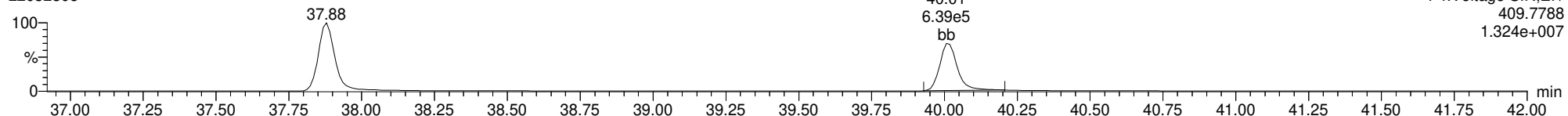
22032308



F4:Voltage SIR,El+  
407.7818  
1.353e+007

1234789-HpCDF

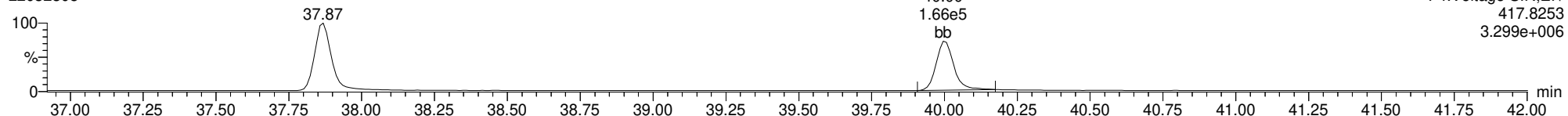
22032308



F4:Voltage SIR,El+  
409.7788  
1.324e+007

13C-1234789-HpCDF

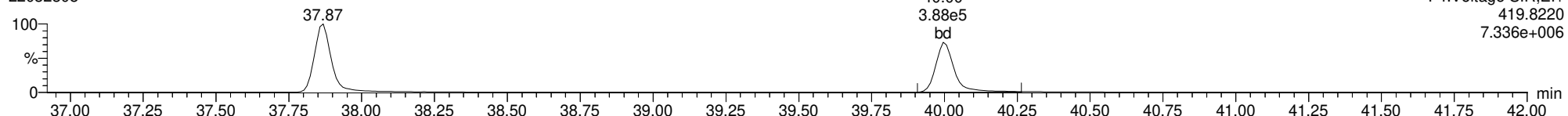
22032308



F4:Voltage SIR,El+  
417.8253  
3.299e+006

13C-1234789-HpCDF

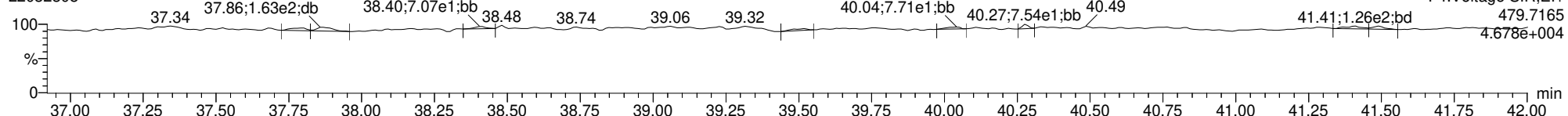
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F4:Voltage SIR,El+  
419.8220  
7.336e+006

FUNCTION4 NCDPE

22032308

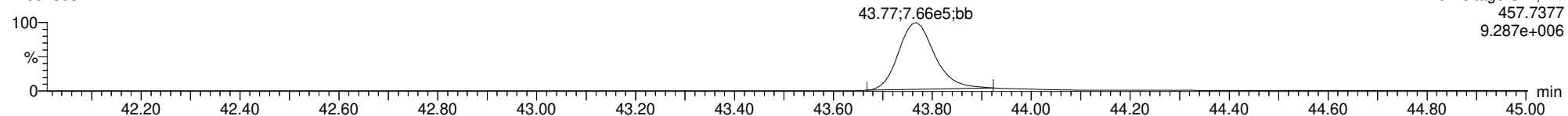


F4:Voltage SIR,El+  
479.7165  
4.678e+004

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

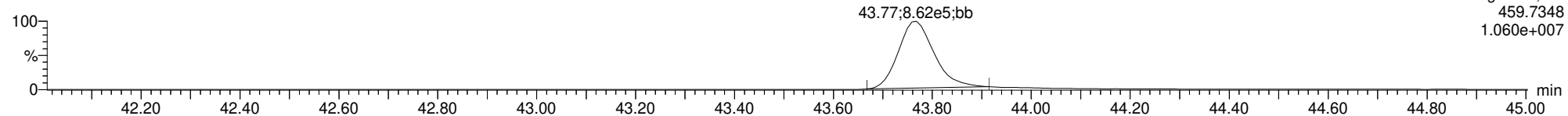
**OCDD**

22032308



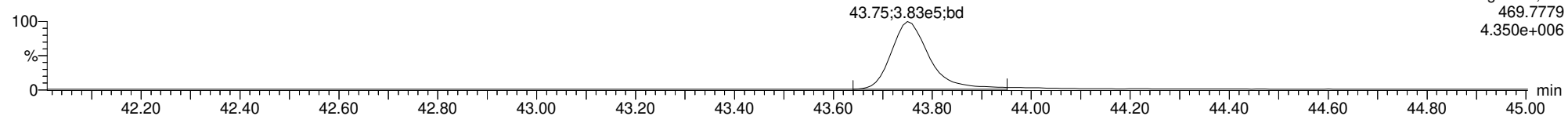
**OCDD**

22032308



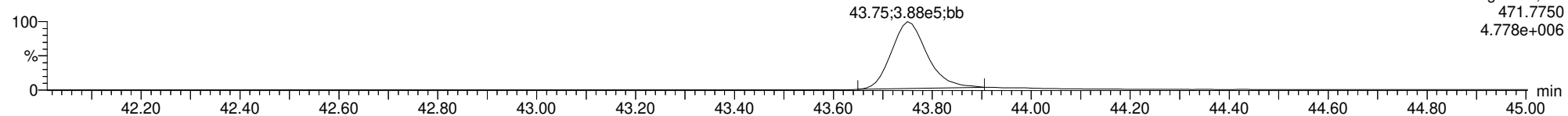
**13C-OCDD**

22032308



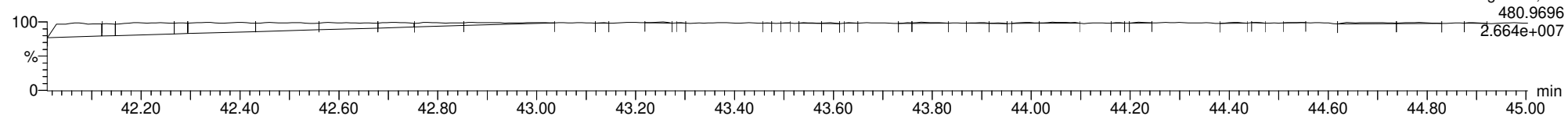
**13C-OCDD**

22032308



**FUNCTION5 PFK**

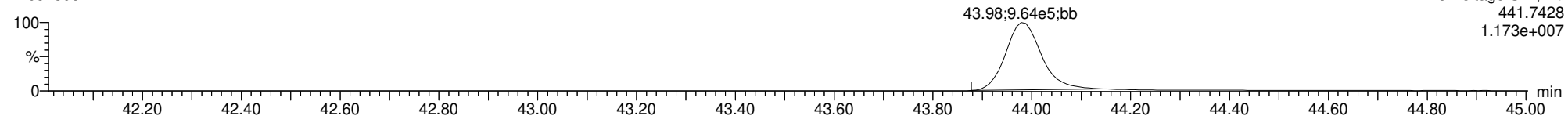
22032308



ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

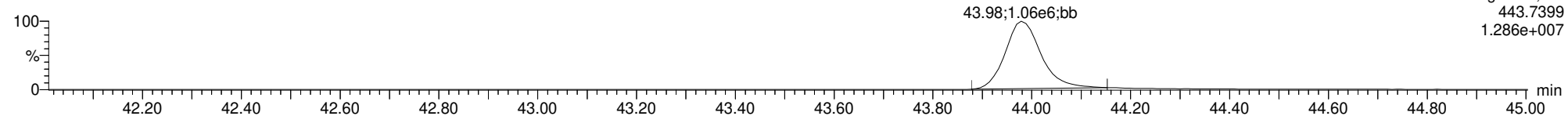
**OCDF**

22032308



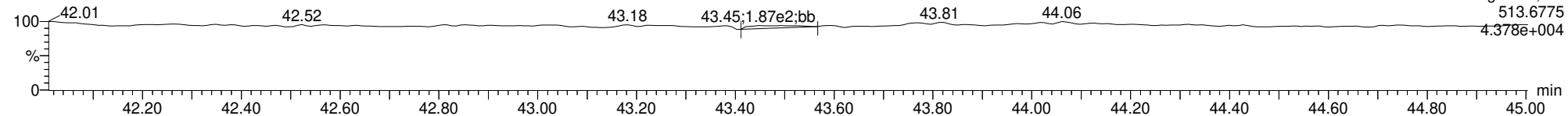
**OCDF**

22032308



**FUNCTION5 DCDPE**

22032308

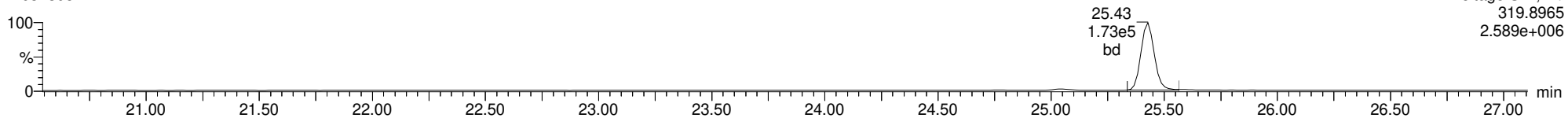




ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

**Total-tetradoxins**

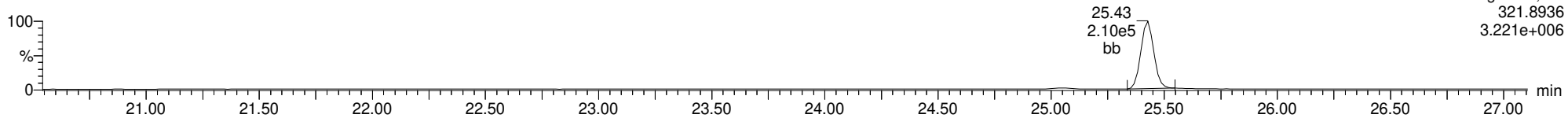
22032308



F1:Voltage SIR,El+  
319.8965  
2.589e+006

**Total-tetradoxins**

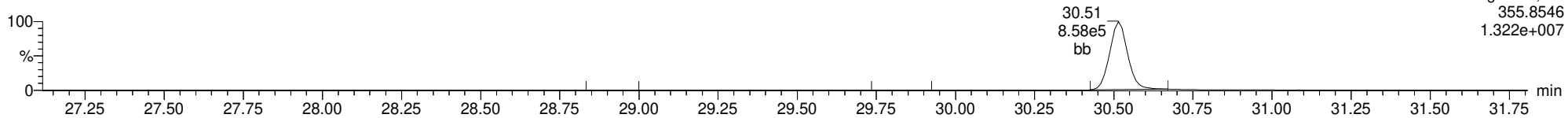
22032308



F1:Voltage SIR,El+  
321.8936  
3.221e+006

**Total-pentadoxins**

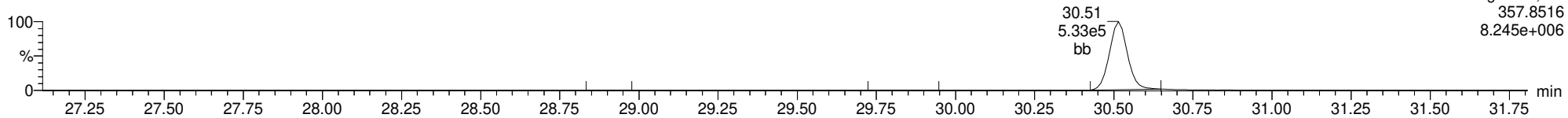
22032308



F2:Voltage SIR,El+  
355.8546  
1.322e+007

**Total-pentadoxins**

22032308

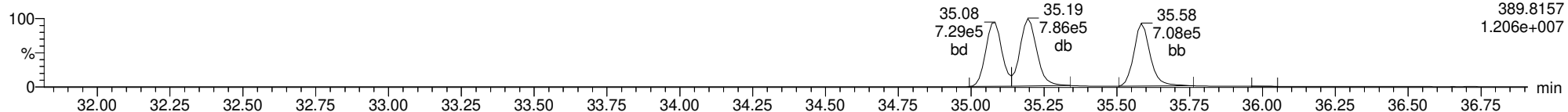


F2:Voltage SIR,El+  
357.8516  
8.245e+006

ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

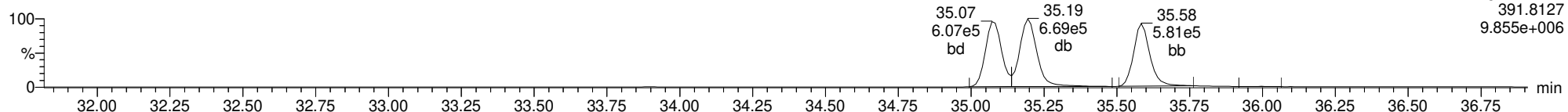
**Total-hexadioxins**

22032308



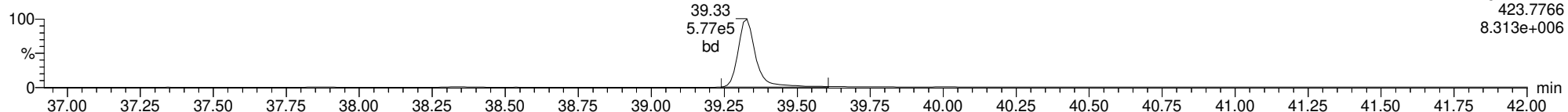
**Total-hexadioxins**

22032308



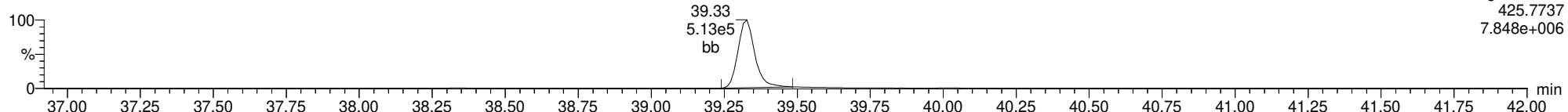
**Total-heptadioxins**

22032308



**Total-heptadioxins**

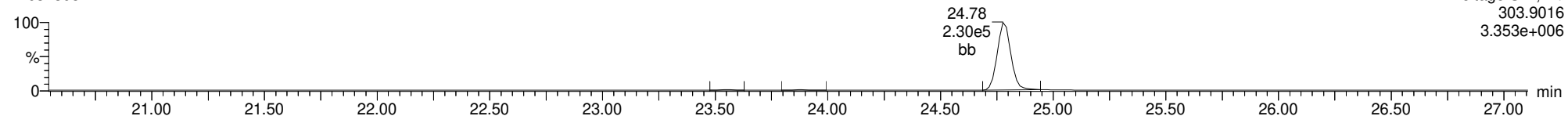
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ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

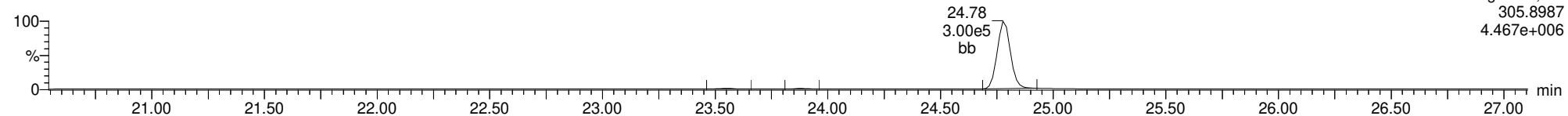
**Total-tetrafurans**

22032308



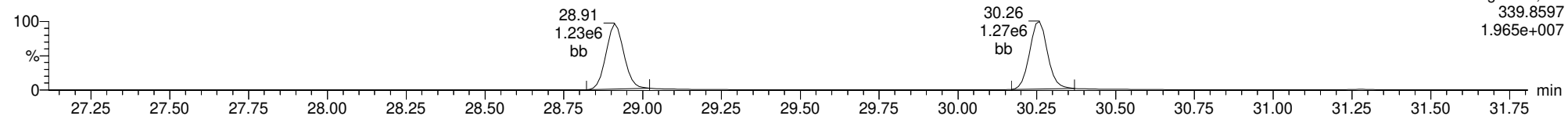
**Total-tetrafurans**

22032308



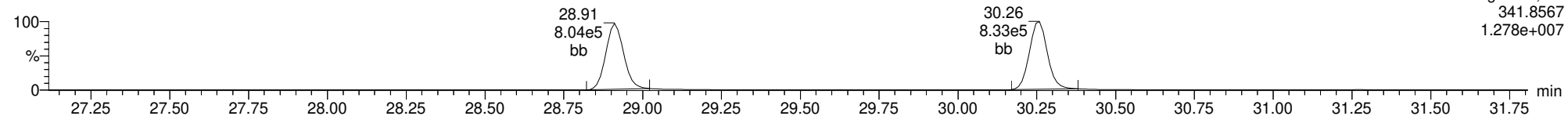
**Total-pentafurans**

22032308



**Total-pentafurans**

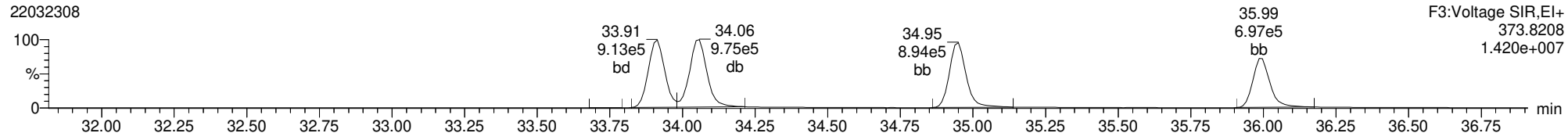
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ID: CS4CH, Name: 22032308, Date: 23-Mar-2022, Time: 15:11:40, Conditions: AUTOSPEC01, User: pk

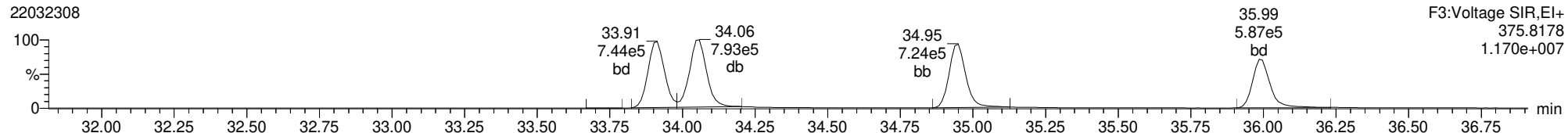
**Total-hexafurans**

22032308



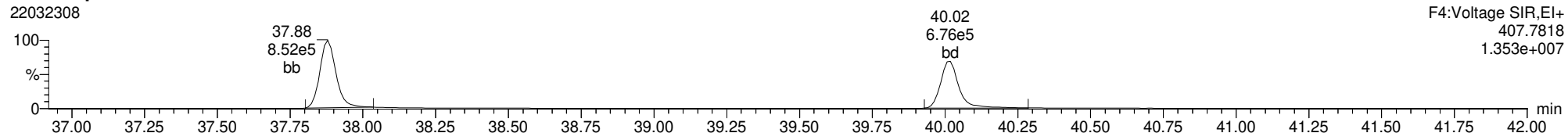
**Total-hexafurans**

22032308



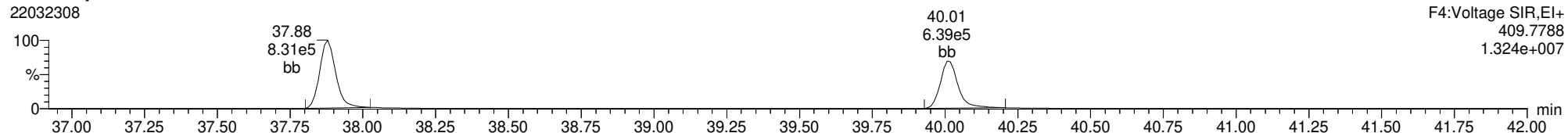
**Total-heptafurans**

22032308



**Total-heptafurans**

22032308



Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:58 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
 Calibration: 24 Mar 2022 08:56:14

ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	24.777	1.001	1.675e6	2.225e6	0.985	0.753	0.770	1842	2273	2.56e7	3.40e7	13905.3	14968.7	NO	bb	bb	200.402
12378-PeCDF	28.910	1.001	9.839e6	6.360e6	0.906	1.547	1.550	8610	3706	1.52e8	9.75e7	17600.9	26314.7	NO	bb	bb	1015.023
23478-PeCDF	30.248	1.000	1.026e7	6.682e6	1.008	1.535	1.550	8610	3706	1.61e8	1.05e8	18649.9	28208.2	NO	bb	bb	1001.969
123478-HxCDF	33.902	1.000	7.355e6	6.013e6	1.045	1.223	1.240	5328	4637	1.14e8	9.31e7	21408.6	20078.4	NO	bd	bd	998.736
234678-HxCDF	34.938	1.000	7.380e6	6.014e6	1.101	1.227	1.240	5328	4637	1.15e8	9.48e7	21666.9	20452.4	NO	bd	bd	999.142
123678-HxCDF	34.047	1.000	7.727e6	6.307e6	1.019	1.225	1.240	5328	4637	1.20e8	9.83e7	22493.9	21189.6	NO	db	db	1006.787
123789-HxCDF	35.986	1.000	5.840e6	4.732e6	0.992	1.234	1.240	5328	4637	9.31e7	7.59e7	17478.3	16362.2	NO	bb	bb	980.623
1234678-HpCDF	37.868	1.000	7.089e6	6.950e6	1.243	1.020	1.050	7429	6384	1.16e8	1.14e8	15679.6	17894.2	NO	bb	bb	1005.823
1234789-HpCDF	40.008	1.000	5.575e6	5.419e6	1.192	1.029	1.050	7429	6384	8.49e7	8.24e7	11424.2	12914.9	NO	bb	bb	1001.064
OCDF	43.979	1.005	8.754e6	9.664e6	1.303	0.906	0.890	3762	5523	1.12e8	1.24e8	29895.1	22442.1	NO	bb	bb	2055.932
2378-TCDD	25.427	1.001	1.298e6	1.589e6	1.168	0.817	0.770	1728	1580	1.97e7	2.41e7	11391.3	15260.3	NO	bb	bb	203.256
12378-PeCDD	30.515	1.001	6.811e6	4.281e6	1.152	1.591	1.550	3156	3579	1.05e8	6.62e7	33411.8	18497.9	NO	bb	bb	1011.187
123478-HxCDD	35.072	1.000	5.985e6	4.886e6	0.934	1.225	1.240	4731	1970	1.00e8	8.17e7	21195.1	41490.7	NO	bd	bd	1008.718
123678-HxCDD	35.194	1.000	6.498e6	5.247e6	0.950	1.239	1.240	4731	1970	1.03e8	8.40e7	21815.3	42645.8	NO	db	db	1015.108
123789-HxCDD	35.584	1.011	5.867e6	4.829e6	0.873	1.215	1.240	4731	1970	9.54e7	7.84e7	20163.8	39807.7	NO	bb	bb	1033.202
1234678-HpCDD	39.317	1.000	4.611e6	4.299e6	1.268	1.073	1.050	4668	4052	7.50e7	6.99e7	16058.5	17258.5	NO	bb	bb	975.899
OCDD	43.759	1.000	6.866e6	7.791e6	1.089	0.881	0.890	5009	5029	8.96e7	1.03e8	17888.4	20392.8	NO	bb	bb	1956.812
13C-2378-TCDF	24.762	1.007	8.709e5	1.105e6	1.751	0.788	0.770	3749	2399	1.34e7	1.67e7	3570.1	6980.9	NO	bb	bb	106.308
13C-12378-PeCDF	28.888	1.174	1.073e6	6.895e5	1.442	1.556	1.550	2391	2571	1.64e7	1.05e7	6869.2	4078.6	NO	bb	bb	115.152
13C-23478-PeCDF	30.236	1.229	1.021e6	6.565e5	1.366	1.555	1.550	2391	2571	1.55e7	9.90e6	6491.8	3850.2	NO	bb	bb	115.728
13C-123478-HxCDF	33.891	0.953	4.317e5	8.487e5	1.095	0.509	0.510	2834	3625	6.70e6	1.32e7	2364.7	3628.7	NO	bd	bd	96.697
13C-123678-HxCDF	34.036	0.957	4.680e5	8.994e5	1.168	0.520	0.510	2834	3625	7.04e6	1.35e7	2482.5	3734.5	NO	db	db	96.824
13C-234678-HxCDF	34.927	0.982	4.257e5	7.919e5	1.023	0.538	0.510	2834	3625	6.67e6	1.27e7	2354.6	3502.7	NO	bd	bb	98.422
13C-123789-HxCDF	35.974	1.011	3.677e5	7.188e5	0.879	0.512	0.510	2834	3625	5.78e6	1.13e7	2038.0	3108.3	NO	bb	bb	102.226
13C-1234678-HpCDF	37.857	1.064	3.488e5	7.740e5	0.925	0.451	0.440	1883	2760	5.77e6	1.27e7	3063.6	4607.0	NO	bb	bb	100.303
13C-1234789-HpCDF	39.996	1.124	2.875e5	6.338e5	0.715	0.454	0.440	1883	2760	4.14e6	9.20e6	2200.9	3334.6	NO	bd	bd	106.550
13C-1234-TCDD	24.596	0.000	4.623e5	5.992e5	1.000	0.771	0.770	1705	1361	6.88e6	8.92e6	4032.6	6555.0	NO	bb	bb	100.000
13C-2378-TCDD	25.397	1.033	5.249e5	6.915e5	1.081	0.759	0.770	1705	1361	8.02e6	1.05e7	4705.3	7715.0	NO	bb	bb	105.970
13C-12378-PeCDD	30.493	1.240	5.866e5	3.658e5	0.776	1.604	1.550	1447	1244	9.06e6	5.66e6	6259.4	4552.7	NO	bb	bb	115.560
13C-123478-HxCDD	35.061	0.986	6.417e5	5.122e5	0.975	1.253	1.240	3791	1776	1.05e7	8.40e6	2763.5	4728.9	NO	bd	bd	97.865
13C-123678-HxCDD	35.183	0.989	6.761e5	5.413e5	1.067	1.249	1.240	3791	1776	1.05e7	8.40e6	2759.8	4727.6	NO	db	db	94.379
13C-1234678-HpCDD	39.306	1.105	3.705e5	3.495e5	0.582	1.060	1.050	1778	1311	6.09e6	5.69e6	3425.6	4341.2	NO	bb	bb	102.355
13C-OCDD	43.750	1.230	6.426e5	7.326e5	0.509	0.877	0.890	3954	3416	8.25e6	8.96e6	2087.7	2624.2	NO	bb	bd	223.580
13C-123789-HxCDD	35.573	0.000	6.590e5	5.505e5	1.000	1.197	1.240	3791	1776	1.04e7	8.45e6	2732.9	4758.4	NO	bb	bd	100.000
37CL-2378-TCDD	25.427	1.034	2.468e6		1.120			1906		3.72e7		19503.9			bb		207.588

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:58 Pacific Daylight Time

**ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.300		0.770	1842	2273								
1289-TCDF					0.931		0.770	1842	2273								
13468-PECDF					1.308		1.550	649	867								
12389-PECDF					0.860		1.550	8610	3706								
123468-HXCDF					1.156		1.240	5328	4637								
1368-TCDD					1.151		0.770	1728	1580								
1289-TCDD					0.950		0.770	1728	1580								
12479-PECDD					2.164		1.550	3156	3579								
12389-PECDD					1.371		1.550	3156	3579								
124679-HXCDD					1.153		1.240	4731	1970								
1234679-HPCDD					1.473		1.050	4668	4052								
Total-tetrafurans			1.702e6		1.072			1842		2.60e7						203.375	
Total-penta1			0.000e0					649		0.00e0							
Total-pentafurans			2.016e7		0.924			8610		3.13e8						2024.412	
Total-hexafurans			2.836e7		1.063			5328		4.43e8						3992.895	
Total-heptafurans			1.268e7		1.218			7429		2.02e8						2009.660	
Total-Furans			7.166e7		1.090			1842		1.10e9						10286.274	
Total-tetradoxins			1.327e6		1.090			1728		2.00e7						208.217	
Total-pentadoxins			6.819e6		1.562			3156		1.06e8						1012.053	
Total-hexadoxins			1.837e7		0.978			4731		2.99e8						3060.688	
Total-heptadoxins			4.611e6		1.371			4668		7.50e7						975.899	
Total-Dioxins			3.799e7		1.207			1728		5.89e8						7213.669	
Total-TEQ			1.097e8					1728		1.69e9						17499.944	
FUNCTION1 PFK			6.927e5					647624		1.49e7							
FUNCTION2 PFK			5.970e5					524700		8.35e6							0.000
FUNCTION3 PFK			5.465e5					470586		1.54e7							0.000
FUNCTION4 PFK			2.431e5					351678		6.69e6							
FUNCTION5 PFK			1.688e6					208593		1.46e7							
FUNCTION1 HXCDPE			1.807e3					711		2.91e4							0.000
FUNCTION1 HPCDPE			1.136e3					736		1.54e4							0.000
FUNCTION2 HPCDPE			1.194e4					1609		1.82e5							0.000
FUNCTION3 OCDPE			5.028e3					783		6.26e4							0.000
FUNCTION4 NCDPE			1.660e3					755		1.90e4							0.000
FUNCTION5 DCDPE			3.675e3					671		3.01e4							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323\CIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:58 Pacific Daylight Time

**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**

**Calibration: 24 Mar 2022 08:56:14**

**ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.78	1.675e6	2.225e6	0.985	0.75	0.77	13905.3	YES	NO	bb	bb	200.402
2	Total-tetrafurans	23.87	1.128e4	1.383e4	1.072	0.82	0.77	96.0	YES	NO	bb	bb	1.185
3	Total-tetrafurans	23.69	9.939e2	1.434e3	1.072	0.69	0.77	8.2	YES	NO	db	db	0.115
4	Total-tetrafurans	23.55	1.525e4	2.020e4	1.072	0.76	0.77	124.7	YES	NO	bd	bd	1.673

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	28.91	9.839e6	6.360e6	0.906	1.55	1.55	17600.9	YES	NO	bb	bb	1015.0...
2	Total-pentafurans	28.63	6.716e3	4.773e3	0.924	1.41	1.55	12.0	YES	NO	db	dd	0.723
3	Total-pentafurans	28.55	4.904e3	3.134e3	0.924	1.56	1.55	9.4	YES	NO	bd	bd	0.506
4	Total-pentafurans	27.84	3.112e4	2.093e4	0.924	1.49	1.55	45.1	YES	NO	bb	bb	3.273
5	Total-pentafurans	30.51	1.583e4	1.107e4	0.924	1.43	1.55	31.1	YES	NO	bb	bb	1.692
6	23478-PeCDF	30.25	1.026e7	6.682e6	1.008	1.53	1.55	18649.9	YES	NO	bb	bb	1001.9...
7	Total-pentafurans	29.98	1.111e4	7.377e3	0.924	1.51	1.55	18.0	YES	NO	db	bb	1.163
8	Total-pentafurans	29.78	6.078e2	4.252e2	0.924	1.43	1.55	1.6	NO	NO	bb	bb	0.065

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	33.90	7.355e6	6.013e6	1.045	1.22	1.24	21408.6	YES	NO	bd	bd	998.736
2	Total-hexafurans	33.74	6.643e3	6.095e3	1.063	1.09	1.24	22.2	YES	NO	bb	bb	0.968
3	Total-hexafurans	32.41	5.378e3	4.334e3	1.063	1.24	1.24	14.0	YES	NO	db	bb	0.738
4	123789-HxCDF	35.99	5.840e6	4.732e6	0.992	1.23	1.24	17478.3	YES	NO	bb	bb	980.623
5	Total-hexafurans	35.19	4.480e4	3.284e4	1.063	1.36	1.24	99.7	YES	NO	dd	dd	5.900
6	234678-HxCDF	34.94	7.380e6	6.014e6	1.101	1.23	1.24	21666.9	YES	NO	bd	bd	999.142
7	123678-HxCDF	34.05	7.727e6	6.307e6	1.019	1.23	1.24	22493.9	YES	NO	db	db	1006.7...

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323\CIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:58 Pacific Daylight Time

**ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk**

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.01	5.575e6	5.419e6	1.192	1.03	1.05	11424.2	YES	NO	bb	bb	1001.0...
2	Total-heptafurans	39.32	6.863e3	6.319e3	1.218	1.09	1.05	11.1	YES	NO	bd	bb	1.059
3	Total-heptafurans	38.51	1.134e4	9.996e3	1.218	1.13	1.05	23.8	YES	NO	bb	bb	1.714
4	1234678-HpCDF	37.87	7.089e6	6.950e6	1.243	1.02	1.05	15679.6	YES	NO	bb	bb	1005.8...

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.78	1.675e6	2.225e6	0.985	0.75	0.77	13905.3	YES	NO	bb	bb	200.402
2	Total-tetrafurans	23.87	1.128e4	1.383e4	1.072	0.82	0.77	96.0	YES	NO	bb	bb	1.185
3	Total-tetrafurans	23.69	9.939e2	1.434e3	1.072	0.69	0.77	8.2	YES	NO	db	db	0.115
4	Total-tetrafurans	23.55	1.525e4	2.020e4	1.072	0.76	0.77	124.7	YES	NO	bd	bd	1.673
5	12378-PeCDF	28.91	9.839e6	6.360e6	0.906	1.55	1.55	17600.9	YES	NO	bb	bb	1015.0...
6	Total-pentafurans	28.63	6.716e3	4.773e3	0.924	1.41	1.55	12.0	YES	NO	db	dd	0.723
7	Total-pentafurans	28.55	4.904e3	3.134e3	0.924	1.56	1.55	9.4	YES	NO	bd	bd	0.506
8	Total-pentafurans	27.84	3.112e4	2.093e4	0.924	1.49	1.55	45.1	YES	NO	bb	bb	3.273
9	Total-pentafurans	30.51	1.583e4	1.107e4	0.924	1.43	1.55	31.1	YES	NO	bb	bb	1.692
10	23478-PeCDF	30.25	1.026e7	6.682e6	1.008	1.53	1.55	18649.9	YES	NO	bb	bb	1001.9...
11	Total-pentafurans	29.98	1.111e4	7.377e3	0.924	1.51	1.55	18.0	YES	NO	db	bb	1.163
12	Total-pentafurans	29.78	6.078e2	4.252e2	0.924	1.43	1.55	1.6	NO	NO	bb	bb	0.065
13	123478-HxCDF	33.90	7.355e6	6.013e6	1.045	1.22	1.24	21408.6	YES	NO	bd	bd	998.736
14	Total-hexafurans	33.74	6.643e3	6.095e3	1.063	1.09	1.24	22.2	YES	NO	bb	bb	0.968
15	Total-hexafurans	32.41	5.378e3	4.334e3	1.063	1.24	1.24	14.0	YES	NO	db	bb	0.738
16	123789-HxCDF	35.99	5.840e6	4.732e6	0.992	1.23	1.24	17478.3	YES	NO	bb	bb	980.623
17	Total-hexafurans	35.19	4.480e4	3.284e4	1.063	1.36	1.24	99.7	YES	NO	dd	dd	5.900
18	234678-HxCDF	34.94	7.380e6	6.014e6	1.101	1.23	1.24	21666.9	YES	NO	bd	bd	999.142
19	123678-HxCDF	34.05	7.727e6	6.307e6	1.019	1.23	1.24	22493.9	YES	NO	db	db	1006.7...
20	1234789-HpCDF	40.01	5.575e6	5.419e6	1.192	1.03	1.05	11424.2	YES	NO	bb	bb	1001.0...
21	Total-heptafurans	39.32	6.863e3	6.319e3	1.218	1.09	1.05	11.1	YES	NO	bd	bb	1.059
22	Total-heptafurans	38.51	1.134e4	9.996e3	1.218	1.13	1.05	23.8	YES	NO	bb	bb	1.714
23	1234678-HpCDF	37.87	7.089e6	6.950e6	1.243	1.02	1.05	15679.6	YES	NO	bb	bb	1005.8...
24	OCDF	43.98	8.754e6	9.664e6	1.303	0.91	0.89	29895.1	YES	NO	bb	bb	2055.9...



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TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	25.43	1.298e6	1.589e6	1.168	0.82	0.77	11391.3	YES	NO	bb	bb	203.256
2	Total-tetradoxins	25.03	2.758e4	3.541e4	1.090	0.78	0.77	198.1	YES	NO	bb	bb	4.753
3	Total-tetradoxins	24.31	1.092e3	1.662e3	1.090	0.66	0.77	12.1	YES	NO	bb	bb	0.208

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	30.51	6.811e6	4.281e6	1.152	1.59	1.55	33411.8	YES	NO	bb	bb	1011.1...
2	Total-pentadoxins	29.85	7.653e3	4.961e3	1.562	1.54	1.55	35.3	YES	NO	bb	bb	0.848
3	Total-pentadoxins	31.13	1.684e2	9.927e1	1.562	1.70	1.55	2.3	NO	NO	bd	bd	0.018

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadoxins	34.05	3.340e3	2.881e3	0.978	1.16	1.24	7.1	YES	NO	db	dd	0.537
2	Total-hexadoxins	35.97	1.899e4	1.721e4	0.978	1.10	1.24	52.0	YES	NO	bb	bb	3.123
3	123789-HxCDD	35.58	5.867e6	4.829e6	0.873	1.21	1.24	20163.8	YES	NO	bb	bb	1033.2...
4	123678-HxCDD	35.19	6.498e6	5.247e6	0.950	1.24	1.24	21815.3	YES	NO	db	db	1015.1...
5	123478-HxCDD	35.07	5.985e6	4.886e6	0.934	1.22	1.24	21195.1	YES	NO	bd	bd	1008.7...

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.32	4.611e6	4.299e6	1.268	1.07	1.05	16058.5	YES	NO	bb	bb	975.899

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	25.43	1.298e6	1.589e6	1.168	0.82	0.77	11391.3	YES	NO	bb	bb	203.256
2	Total-tetradiioxins	25.03	2.758e4	3.541e4	1.090	0.78	0.77	198.1	YES	NO	bb	bb	4.753
3	Total-tetradiioxins	24.31	1.092e3	1.662e3	1.090	0.66	0.77	12.1	YES	NO	bb	bb	0.208
4	12378-PeCDD	30.51	6.811e6	4.281e6	1.152	1.59	1.55	33411.8	YES	NO	bb	bb	1011.1...
5	Total-pentadiioxins	29.85	7.653e3	4.961e3	1.562	1.54	1.55	35.3	YES	NO	bb	bb	0.848
6	Total-pentadiioxins	31.13	1.684e2	9.927e1	1.562	1.70	1.55	2.3	NO	NO	bd	bd	0.018
7	Total-hexadiioxins	34.05	3.340e3	2.881e3	0.978	1.16	1.24	7.1	YES	NO	db	dd	0.537
8	Total-hexadiioxins	35.97	1.899e4	1.721e4	0.978	1.10	1.24	52.0	YES	NO	bb	bb	3.123
9	123789-HxCDD	35.58	5.867e6	4.829e6	0.873	1.21	1.24	20163.8	YES	NO	bb	bb	1033.2...
10	123678-HxCDD	35.19	6.498e6	5.247e6	0.950	1.24	1.24	21815.3	YES	NO	db	db	1015.1...
11	123478-HxCDD	35.07	5.985e6	4.886e6	0.934	1.22	1.24	21195.1	YES	NO	bd	bd	1008.7...
12	1234678-HpCDD	39.32	4.611e6	4.299e6	1.268	1.07	1.05	16058.5	YES	NO	bb	bb	975.899
13	OCDD	43.76	6.866e6	7.791e6	1.089	0.88	0.89	17888.4	YES	NO	bb	bb	1956.8...

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	24.78	1.675e6	2.225e6	0.985	0.75	0.77	13905.3	YES	NO	bb	bb	200.402
2	Total-tetrafurans	23.87	1.128e4	1.383e4	1.072	0.82	0.77	96.0	YES	NO	bb	bb	1.185
3	Total-tetrafurans	23.69	9.939e2	1.434e3	1.072	0.69	0.77	8.2	YES	NO	db	db	0.115
4	Total-tetrafurans	23.55	1.525e4	2.020e4	1.072	0.76	0.77	124.7	YES	NO	bd	bd	1.673
5	12378-PeCDF	28.91	9.839e6	6.360e6	0.906	1.55	1.55	17600.9	YES	NO	bb	bb	1015.0...
6	Total-pentafurans	28.63	6.716e3	4.773e3	0.924	1.41	1.55	12.0	YES	NO	db	dd	0.723
7	Total-pentafurans	28.55	4.904e3	3.134e3	0.924	1.56	1.55	9.4	YES	NO	bd	bd	0.506
8	Total-pentafurans	27.84	3.112e4	2.093e4	0.924	1.49	1.55	45.1	YES	NO	bb	bb	3.273
9	Total-pentafurans	30.51	1.583e4	1.107e4	0.924	1.43	1.55	31.1	YES	NO	bb	bb	1.692
10	23478-PeCDF	30.25	1.026e7	6.682e6	1.008	1.53	1.55	18649.9	YES	NO	bb	bb	1001.9...
11	Total-pentafurans	29.98	1.111e4	7.377e3	0.924	1.51	1.55	18.0	YES	NO	db	bb	1.163
12	Total-pentafurans	29.78	6.078e2	4.252e2	0.924	1.43	1.55	1.6	NO	NO	bb	bb	0.065
13	123478-HxCDF	33.90	7.355e6	6.013e6	1.045	1.22	1.24	21408.6	YES	NO	bd	bd	998.736
14	Total-hexafurans	33.74	6.643e3	6.095e3	1.063	1.09	1.24	22.2	YES	NO	bb	bb	0.968
15	Total-hexafurans	32.41	5.378e3	4.334e3	1.063	1.24	1.24	14.0	YES	NO	db	bb	0.738
16	123789-HxCDF	35.99	5.840e6	4.732e6	0.992	1.23	1.24	17478.3	YES	NO	bb	bb	980.623
17	Total-hexafurans	35.19	4.480e4	3.284e4	1.063	1.36	1.24	99.7	YES	NO	dd	dd	5.900
18	234678-HxCDF	34.94	7.380e6	6.014e6	1.101	1.23	1.24	21666.9	YES	NO	bd	bd	999.142
19	123678-HxCDF	34.05	7.727e6	6.307e6	1.019	1.23	1.24	22493.9	YES	NO	db	db	1006.7...
20	1234789-HpCDF	40.01	5.575e6	5.419e6	1.192	1.03	1.05	11424.2	YES	NO	bb	bb	1001.0...
21	Total-heptafurans	39.32	6.863e3	6.319e3	1.218	1.09	1.05	11.1	YES	NO	bd	bb	1.059
22	Total-heptafurans	38.51	1.134e4	9.996e3	1.218	1.13	1.05	23.8	YES	NO	bb	bb	1.714
23	1234678-HpCDF	37.87	7.089e6	6.950e6	1.243	1.02	1.05	15679.6	YES	NO	bb	bb	1005.8...
24	OCDF	43.98	8.754e6	9.664e6	1.303	0.91	0.89	29895.1	YES	NO	bb	bb	2055.9...
25	2378-TCDD	25.43	1.298e6	1.589e6	1.168	0.82	0.77	11391.3	YES	NO	bb	bb	203.256
26	Total-tetradioxins	25.03	2.758e4	3.541e4	1.090	0.78	0.77	198.1	YES	NO	bb	bb	4.753
27	Total-tetradioxins	24.31	1.092e3	1.662e3	1.090	0.66	0.77	12.1	YES	NO	bb	bb	0.208
28	12378-PeCDD	30.51	6.811e6	4.281e6	1.152	1.59	1.55	33411.8	YES	NO	bb	bb	1011.1...
29	Total-pentadioxins	29.85	7.653e3	4.961e3	1.562	1.54	1.55	35.3	YES	NO	bb	bb	0.848
30	Total-pentadioxins	31.13	1.684e2	9.927e1	1.562	1.70	1.55	2.3	NO	NO	bd	bd	0.018
31	Total-hexadioxins	34.05	3.340e3	2.881e3	0.978	1.16	1.24	7.1	YES	NO	db	dd	0.537
32	Total-hexadioxins	35.97	1.899e4	1.721e4	0.978	1.10	1.24	52.0	YES	NO	bb	bb	3.123
33	123789-HxCDD	35.58	5.867e6	4.829e6	0.873	1.21	1.24	20163.8	YES	NO	bb	bb	1033.2...
34	123678-HxCDD	35.19	6.498e6	5.247e6	0.950	1.24	1.24	21815.3	YES	NO	db	db	1015.1...
35	123478-HxCDD	35.07	5.985e6	4.886e6	0.934	1.22	1.24	21195.1	YES	NO	bd	bd	1008.7...
36	1234678-HpCDD	39.32	4.611e6	4.299e6	1.268	1.07	1.05	16058.5	YES	NO	bb	bb	975.899
37	OCDD	43.76	6.866e6	7.791e6	1.089	0.88	0.89	17888.4	YES	NO	bb	bb	1956.8...

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.73	2.027e4					0.8	NO		bd		
2	FUNCTION1 PFK	23.46	3.714e4					1.5	NO		bb		
3	FUNCTION1 PFK	23.08	4.252e3					0.4	NO		bb		
4	FUNCTION1 PFK	23.02	4.649e4					1.2	NO		bb		
5	FUNCTION1 PFK	22.25	5.225e3					0.5	NO		bb		
6	FUNCTION1 PFK	22.19	2.808e4					1.3	NO		bb		
7	FUNCTION1 PFK	21.84	4.523e3					0.5	NO		bb		
8	FUNCTION1 PFK	21.47	3.516e4					1.2	NO		bb		
9	FUNCTION1 PFK	20.89	6.973e4					1.5	NO		bb		
10	FUNCTION1 PFK	20.71	1.103e5					2.1	NO		db		
11	FUNCTION1 PFK	20.63	4.571e4					2.1	NO		bd		
12	FUNCTION1 PFK	26.44	4.086e3					0.4	NO		bb		
13	FUNCTION1 PFK	26.11	2.488e4					1.2	NO		bb		
14	FUNCTION1 PFK	26.03	3.096e4					1.4	NO		bb		
15	FUNCTION1 PFK	25.93	2.253e4					1.0	NO		bb		
16	FUNCTION1 PFK	25.85	9.633e4					2.0	NO		bb		
17	FUNCTION1 PFK	25.71	6.126e4					1.8	NO		bb		
18	FUNCTION1 PFK	24.73	3.322e4					1.0	NO		bb		
19	FUNCTION1 PFK	24.46	4.786e3					0.5	NO		bb		
20	FUNCTION1 PFK	23.79	7.737e3					0.6	NO		db		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.09	9.985e3					0.8	NO		bb		0.000
2	FUNCTION2 PFK	29.36	1.420e4					1.2	NO		bb		0.000
3	FUNCTION2 PFK	28.01	9.198e3					0.9	NO		bb		0.000
4	FUNCTION2 PFK	27.61	2.003e4					1.1	NO		bb		0.000
5	FUNCTION2 PFK	27.34	2.013e5					1.1	NO		db		0.000
6	FUNCTION2 PFK	27.19	3.016e5					7.3	YES		bd		0.000
7	FUNCTION2 PFK	31.74	2.674e3					0.5	NO		bb		0.000
8	FUNCTION2 PFK	30.84	9.179e3					0.9	NO		bb		0.000
9	FUNCTION2 PFK	30.73	2.718e3					0.5	NO		bb		0.000
10	FUNCTION2 PFK	30.19	2.315e4					1.3	NO		bb		0.000
11	FUNCTION2 PFK	30.13	3.017e3					0.5	NO		bb		0.000

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.00	5.991e3					0.7	NO		bb		0.000
2	FUNCTION3 PFK	32.73	6.760e3					0.8	NO		bb		0.000
3	FUNCTION3 PFK	32.53	3.234e4					1.8	NO		bb		0.000
4	FUNCTION3 PFK	32.38	2.100e4					1.2	NO		bb		0.000
5	FUNCTION3 PFK	32.21	6.853e4					2.0	NO		db		0.000
6	FUNCTION3 PFK	32.15	2.218e4					1.6	NO		dd		0.000
7	FUNCTION3 PFK	32.10	3.504e4					2.0	NO		dd		0.000
8	FUNCTION3 PFK	32.05	3.411e4					1.6	NO		bd		0.000
9	FUNCTION3 PFK	31.99	5.213e3					1.0	NO		bb		0.000
10	FUNCTION3 PFK	31.95	2.293e3					0.4	NO		bb		0.000
11	FUNCTION3 PFK	35.84	1.836e4					1.3	NO		bb		0.000
12	FUNCTION3 PFK	35.48	1.906e4					1.5	NO		bb		0.000
13	FUNCTION3 PFK	35.26	2.691e4					1.7	NO		bb		0.000
14	FUNCTION3 PFK	35.16	1.935e4					1.4	NO		db		0.000
15	FUNCTION3 PFK	35.13	4.468e4					2.2	NO		dd		0.000
16	FUNCTION3 PFK	35.02	5.739e4					1.5	NO		bd		0.000
17	FUNCTION3 PFK	34.39	3.018e4					1.0	NO		bb		0.000
18	FUNCTION3 PFK	34.26	7.640e3					0.8	NO		bb		0.000
19	FUNCTION3 PFK	34.21	2.792e3					0.5	NO		bb		0.000
20	FUNCTION3 PFK	34.09	1.101e4					1.0	NO		bb		0.000
21	FUNCTION3 PFK	34.04	2.296e3					0.4	NO		bb		0.000
22	FUNCTION3 PFK	33.62	8.800e3					0.9	NO		bb		0.000
23	FUNCTION3 PFK	33.58	3.851e3					0.7	NO		bb		0.000
24	FUNCTION3 PFK	33.29	9.725e3					1.0	NO		bb		0.000
25	FUNCTION3 PFK	33.18	1.439e4					1.2	NO		bb		0.000
26	FUNCTION3 PFK	33.06	1.955e4					1.4	NO		bb		0.000
27	FUNCTION3 PFK	36.80	1.706e4					1.1	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.48	3.049e4					1.8	NO		bb		
2	FUNCTION4 PFK	41.09	1.380e4					1.5	NO		bb		
3	FUNCTION4 PFK	40.71	5.795e3					0.8	NO		bb		
4	FUNCTION4 PFK	40.46	1.728e4					1.5	NO		bb		
5	FUNCTION4 PFK	40.19	6.817e3					1.0	NO		bb		
6	FUNCTION4 PFK	39.60	1.116e4					1.3	NO		bb		
7	FUNCTION4 PFK	39.07	1.567e4					1.5	NO		bb		
8	FUNCTION4 PFK	38.82	1.314e4					1.5	NO		bb		
9	FUNCTION4 PFK	38.73	2.876e4					1.4	NO		bb		
10	FUNCTION4 PFK	38.40	1.058e4					1.2	NO		bb		
11	FUNCTION4 PFK	38.31	1.957e3					0.5	NO		bb		
12	FUNCTION4 PFK	37.18	6.922e4					2.3	NO		bb		
13	FUNCTION4 PFK	37.10	3.909e3					1.0	NO		bb		
14	FUNCTION4 PFK	37.06	1.453e4					1.7	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.42	3.467e3					0.9	NO		bb		
2	FUNCTION5 PFK	44.34	9.390e2					0.5	NO		bb		
3	FUNCTION5 PFK	44.04	1.094e3					0.6	NO		bb		
4	FUNCTION5 PFK	43.86	1.429e4					2.2	NO		bb		
5	FUNCTION5 PFK	43.65	1.096e4					2.0	NO		bb		
6	FUNCTION5 PFK	43.59	4.452e3					1.2	NO		db		
7	FUNCTION5 PFK	43.55	1.066e4					1.8	NO		bd		
8	FUNCTION5 PFK	43.48	8.442e3					0.8	NO		bb		
9	FUNCTION5 PFK	42.72	5.901e3					1.5	NO		db		
10	FUNCTION5 PFK	42.55	1.526e5					7.2	YES		dd		
11	FUNCTION5 PFK	42.32	9.676e5					13.5	YES		dd		
12	FUNCTION5 PFK	42.13	1.014e5					18.2	YES		dd		
13	FUNCTION5 PFK	42.09	4.057e5					19.6	YES		bd		

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCDPE	20.62	7.541e1					1.8	NO		bd		0.000
2	FUNCTION1 HXCDPE	26.12	9.244e1					3.4	YES		bb		0.000
3	FUNCTION1 HXCDPE	25.43	2.970e2					5.0	YES		bb		0.000
4	FUNCTION1 HXCDPE	25.19	9.583e1					3.1	YES		bb		0.000
5	FUNCTION1 HXCDPE	25.02	8.202e1					2.2	NO		bb		0.000
6	FUNCTION1 HXCDPE	24.58	1.188e2					2.8	NO		bb		0.000
7	FUNCTION1 HXCDPE	23.96	1.405e2					3.3	YES		db		0.000
8	FUNCTION1 HXCDPE	23.82	1.271e2					1.7	NO		bd		0.000
9	FUNCTION1 HXCDPE	22.63	9.695e1					1.9	NO		bb		0.000
10	FUNCTION1 HXCDPE	22.12	1.521e2					3.6	YES		bb		0.000
11	FUNCTION1 HXCDPE	21.90	7.092e1					2.6	NO		bb		0.000
12	FUNCTION1 HXCDPE	21.12	8.426e1					1.8	NO		db		0.000
13	FUNCTION1 HXCDPE	20.94	8.044e1					2.0	NO		dd		0.000
14	FUNCTION1 HXCDPE	20.82	2.132e2					2.7	NO		dd		0.000
15	FUNCTION1 HXCDPE	20.71	8.013e1					3.0	YES		dd		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCDPE	21.36	9.225e1					1.6	NO		bb		0.000
2	FUNCTION1 HPCDPE	26.88	7.657e1					2.1	NO		bb		0.000
3	FUNCTION1 HPCDPE	26.30	1.403e2					3.0	NO		bb		0.000
4	FUNCTION1 HPCDPE	25.56	1.011e2					1.7	NO		db		0.000
5	FUNCTION1 HPCDPE	25.43	2.817e2					4.4	YES		bd		0.000
6	FUNCTION1 HPCDPE	24.78	2.097e2					2.9	NO		bb		0.000
7	FUNCTION1 HPCDPE	24.61	7.354e1					2.1	NO		bb		0.000
8	FUNCTION1 HPCDPE	24.38	8.188e1					1.6	NO		bb		0.000
9	FUNCTION1 HPCDPE	24.22	7.880e1					1.5	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	31.55	2.828e2					3.6	YES		bb		0.000
2	FUNCTION2 HPCDPE	30.51	8.846e2					6.8	YES		bb		0.000
3	FUNCTION2 HPCDPE	30.26	7.050e2					6.2	YES		db		0.000
4	FUNCTION2 HPCDPE	30.16	1.006e4					96.7	YES		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICIH.qld  
 Last Altered: Thursday, March 24, 2022 08:56:14 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:18:58 Pacific Daylight Time

**ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk**

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	33.92	5.925e2					8.2	YES		bd		0.000
2	FUNCTION3 OCDPE	31.91	7.903e1					2.0	NO		bb		0.000
3	FUNCTION3 OCDPE	36.00	3.065e2					5.8	YES		bb		0.000
4	FUNCTION3 OCDPE	35.58	8.567e2					13.0	YES		bb		0.000
5	FUNCTION3 OCDPE	35.19	9.233e2					14.2	YES		db		0.000
6	FUNCTION3 OCDPE	35.07	8.814e2					14.2	YES		dd		0.000
7	FUNCTION3 OCDPE	34.96	4.077e2					7.2	YES		bd		0.000
8	FUNCTION3 OCDPE	34.51	1.019e2					3.0	NO		db		0.000
9	FUNCTION3 OCDPE	34.40	1.350e2					3.1	YES		bd		0.000
10	FUNCTION3 OCDPE	34.06	7.437e2					9.4	YES		db		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.01	2.149e2					5.3	YES		bb		0.000
2	FUNCTION4 NCDPE	39.33	6.317e2					9.3	YES		bb		0.000
3	FUNCTION4 NCDPE	37.88	8.130e2					10.5	YES		bb		0.000

**ETHERS6**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.00	1.867e3					20.0	YES		db		0.000
2	FUNCTION5 DCDPE	43.78	1.736e3					21.4	YES		bd		0.000
3	FUNCTION5 DCDPE	42.98	7.203e1					3.4	YES		bb		0.000

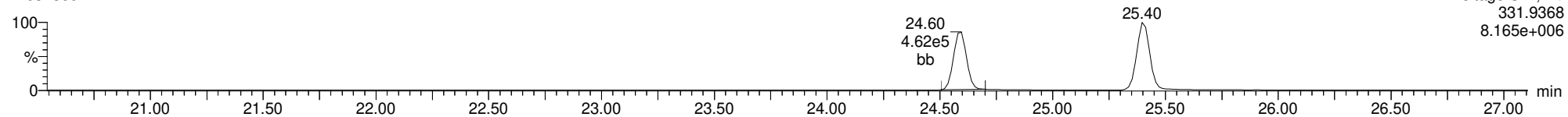


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ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

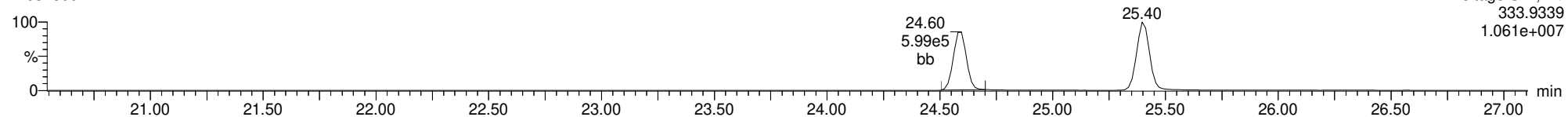
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22032309



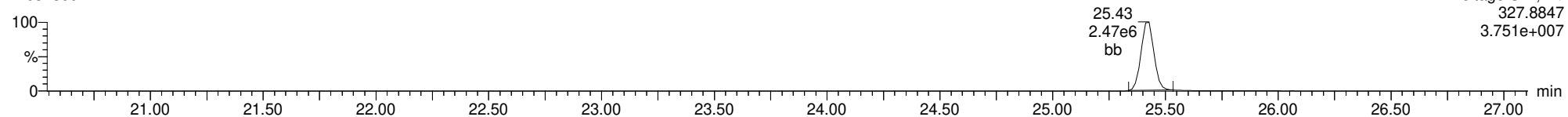
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22032309



**37CL-2378-TCDD**

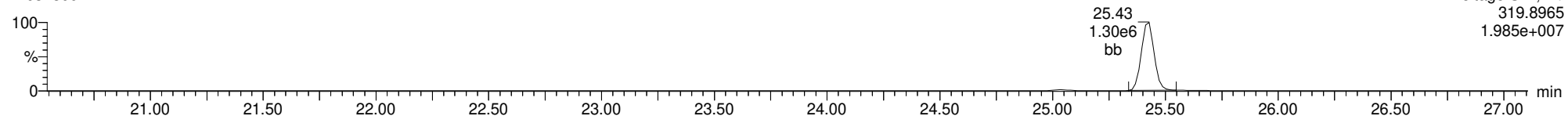
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ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

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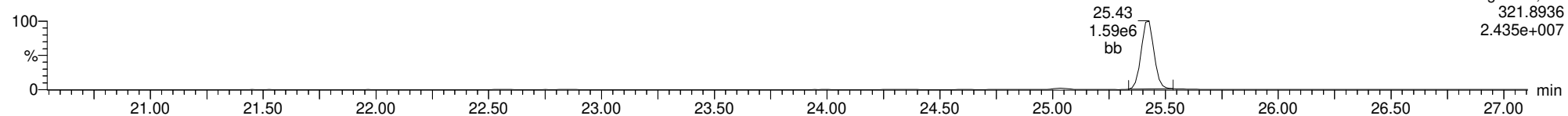
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F1:Voltage SIR,El+  
319.8965  
1.985e+007

**2378-TCDD**

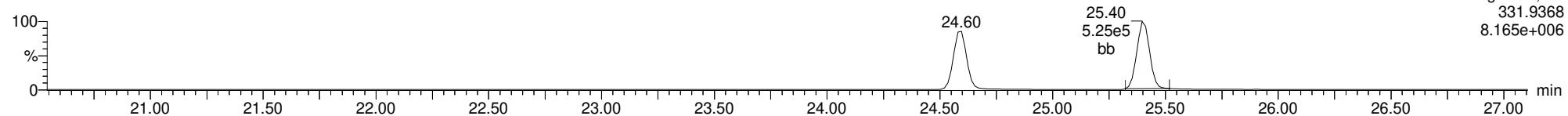
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F1:Voltage SIR,El+  
321.8936  
2.435e+007

**13C-2378-TCDD**

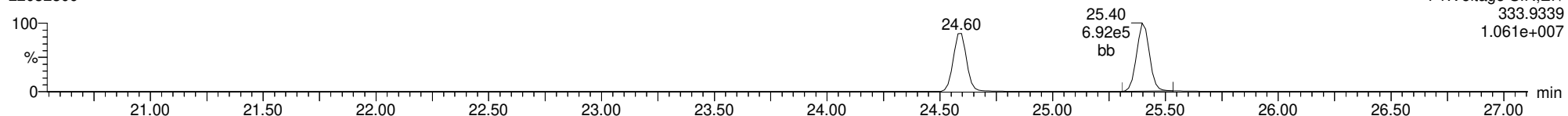
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F1:Voltage SIR,El+  
331.9368  
8.165e+006

**13C-2378-TCDD**

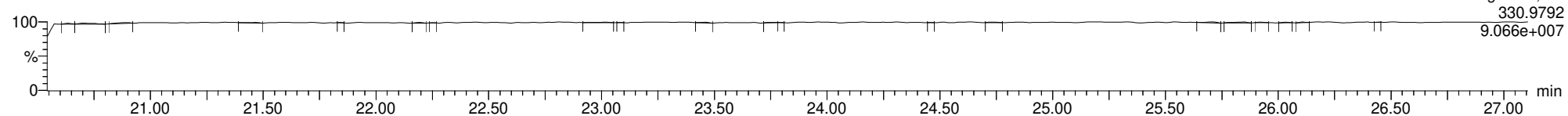
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F1:Voltage SIR,El+  
333.9339  
1.061e+007

**FUNCTION1 PFK**

22032309

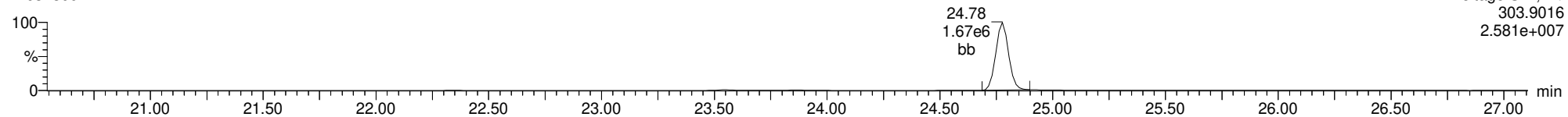


F1:Voltage SIR,El+  
330.9792  
9.066e+007

ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

2378-TCDF

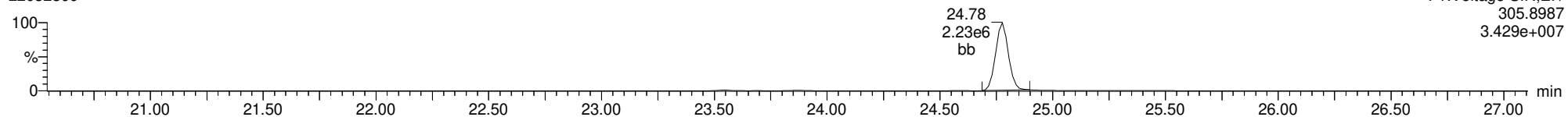
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F1:Voltage SIR,El+  
303.9016  
2.581e+007

2378-TCDF

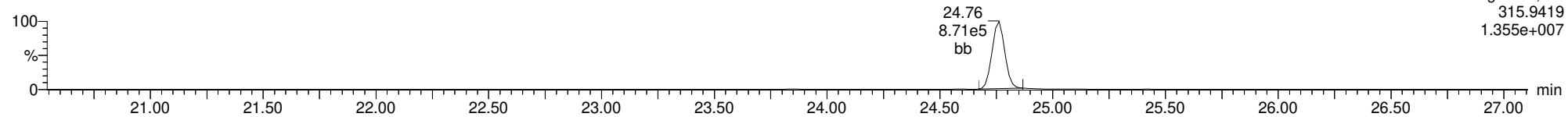
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F1:Voltage SIR,El+  
305.8987  
3.429e+007

13C-2378-TCDF

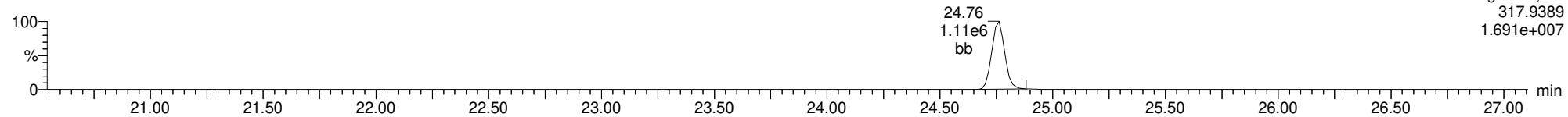
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F1:Voltage SIR,El+  
315.9419  
1.355e+007

13C-2378-TCDF

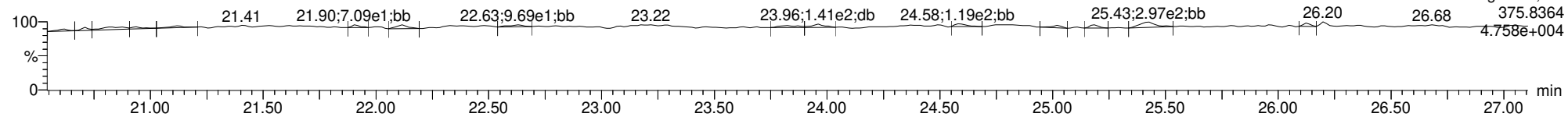
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F1:Voltage SIR,El+  
317.9389  
1.691e+007

FUNCTION1 HXCDPE

22032309

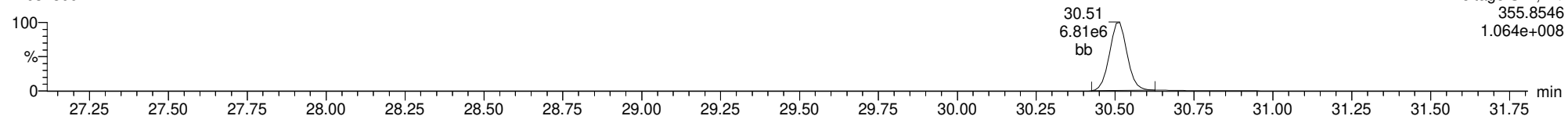


F1:Voltage SIR,El+  
375.8364  
4.758e+004

ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

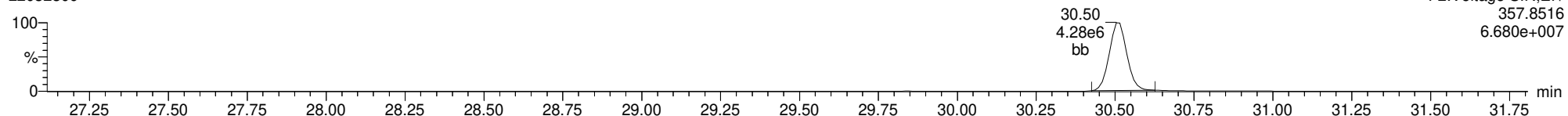
12378-PeCDD

22032309



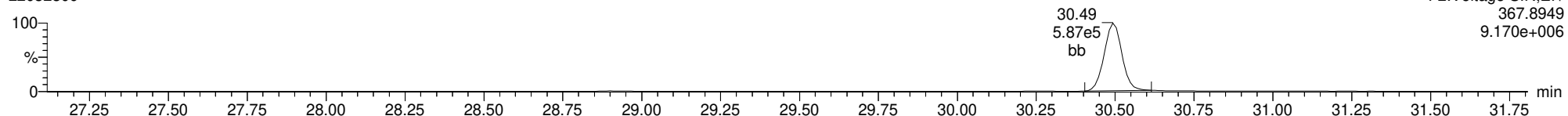
12378-PeCDD

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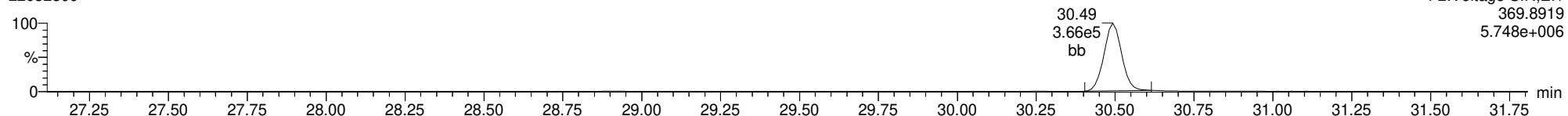
13C-12378-PeCDD

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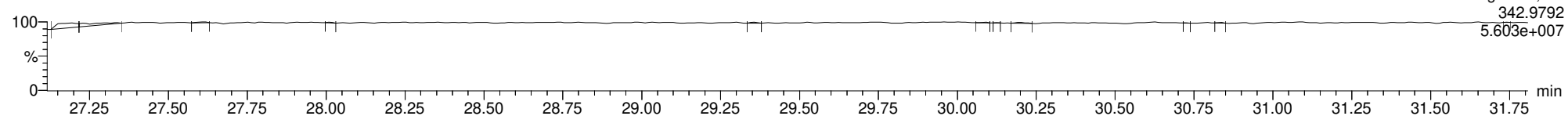
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FUNCTION2 PFK

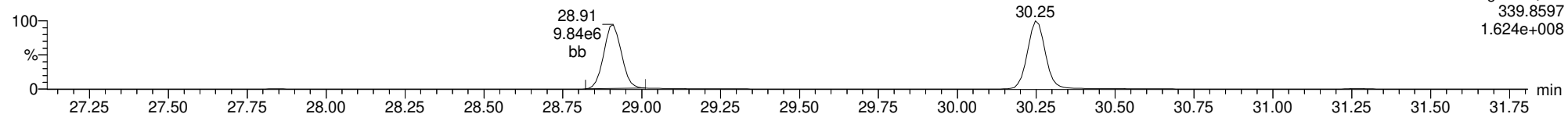
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12378-PeCDF

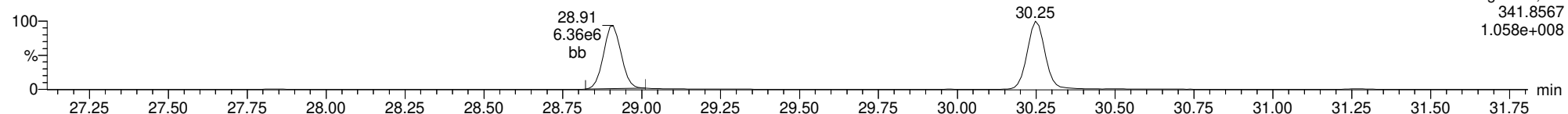
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F2:Voltage SIR,El+  
339.8597  
1.624e+008

12378-PeCDF

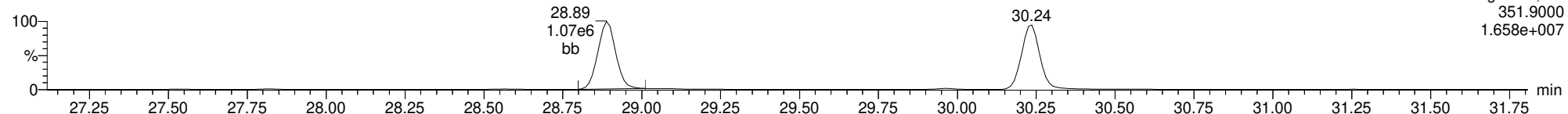
22032309



F2:Voltage SIR,El+  
341.8567  
1.058e+008

13C-12378-PeCDF

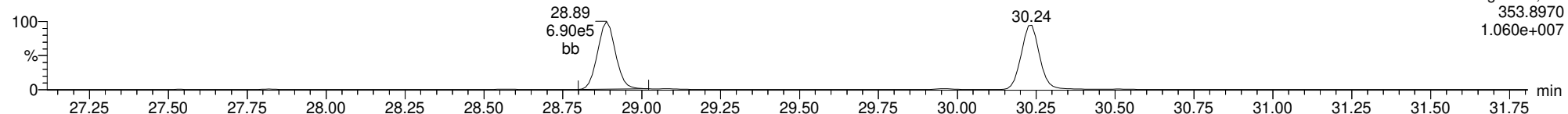
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F2:Voltage SIR,El+  
351.9000  
1.658e+007

13C-12378-PeCDF

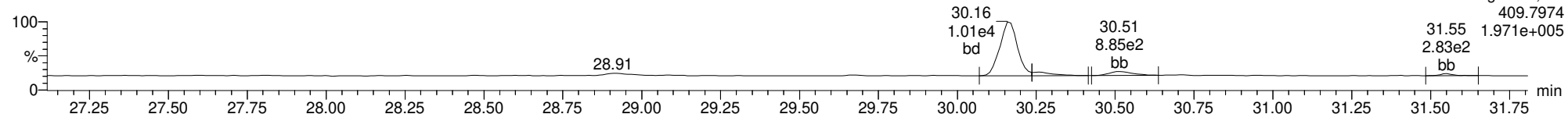
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F2:Voltage SIR,El+  
353.8970  
1.060e+007

FUNCTION2 HPCDPE

22032309

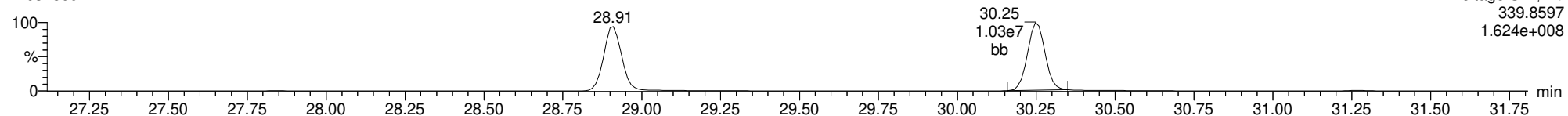


F2:Voltage SIR,El+  
409.7974  
1.971e+005  
2.83e2

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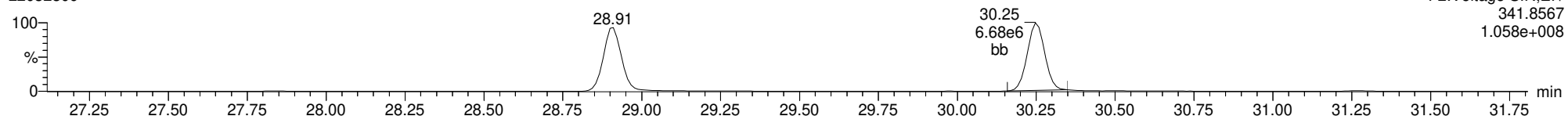
23478-PeCDF

22032309



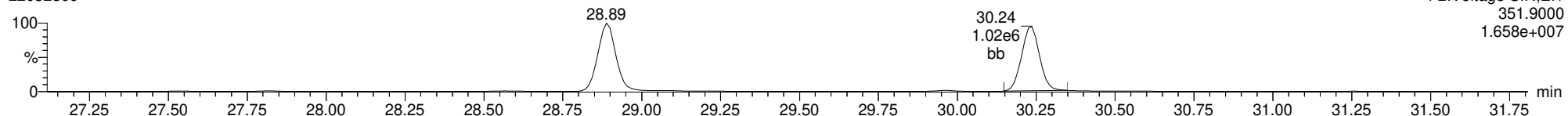
23478-PeCDF

22032309



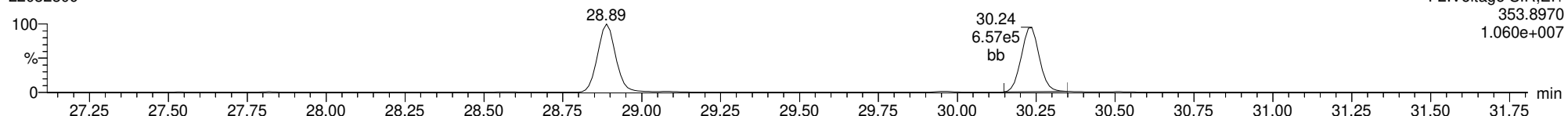
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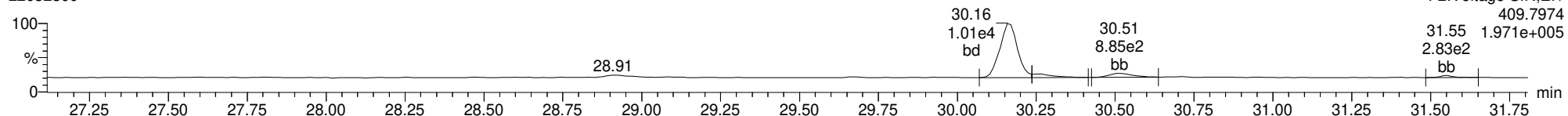
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FUNCTION2 HPCDPE

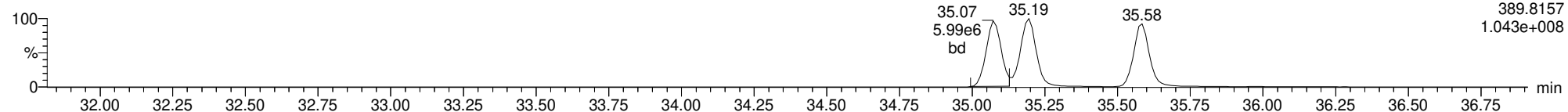
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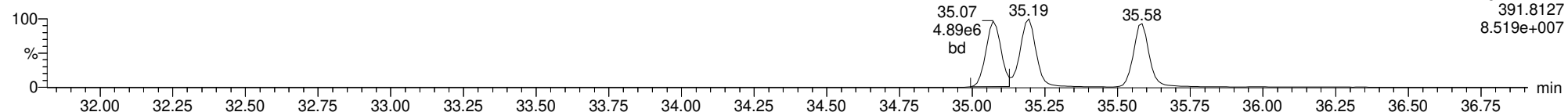
123478-HxCDD

22032309



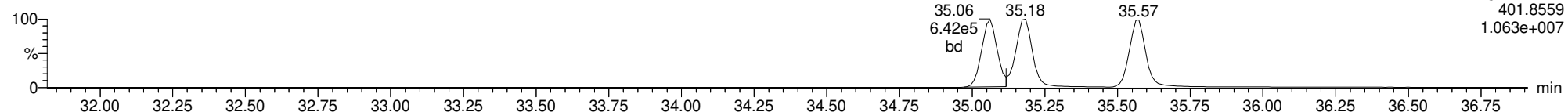
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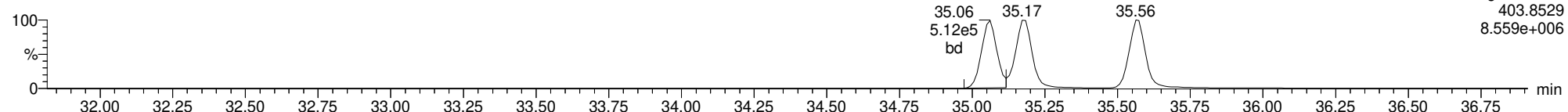
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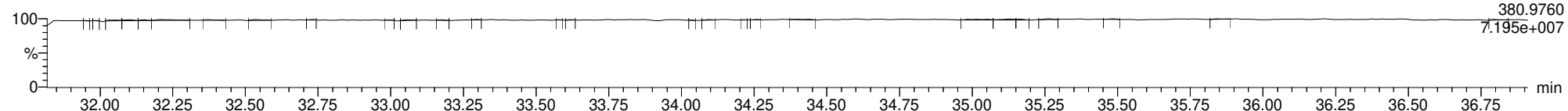
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22032309



FUNCTION3 PFK

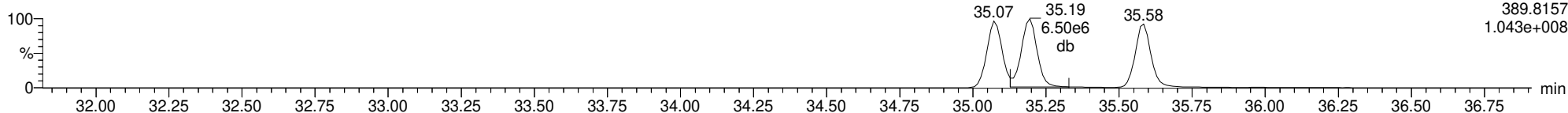
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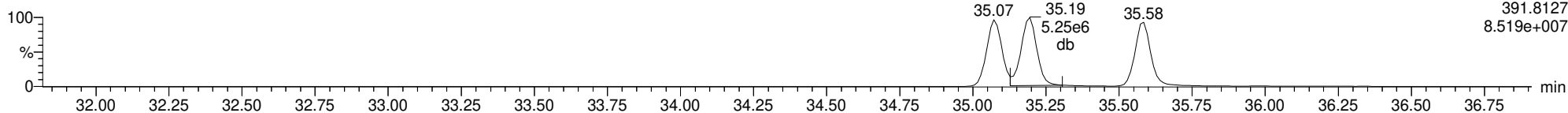
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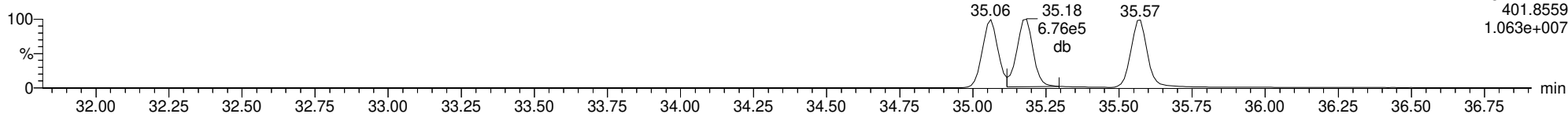
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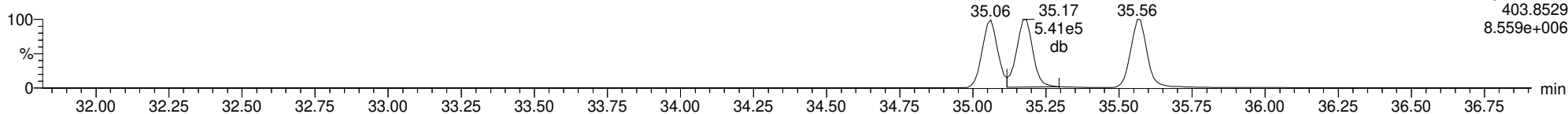
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**13C-123678-HxCDD**

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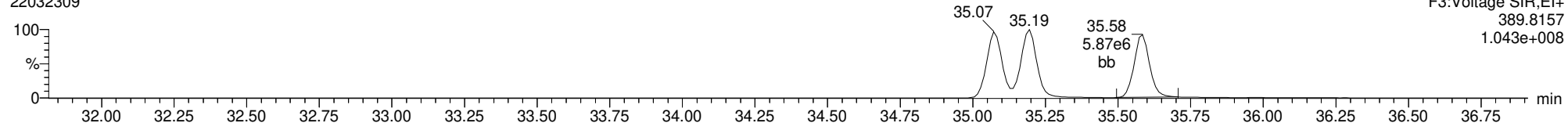




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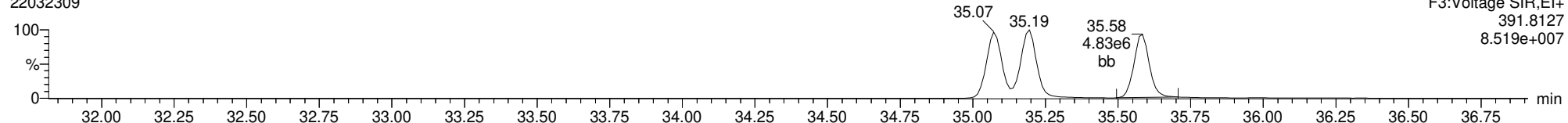
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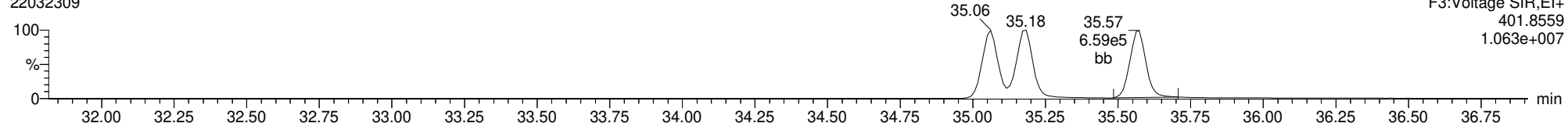
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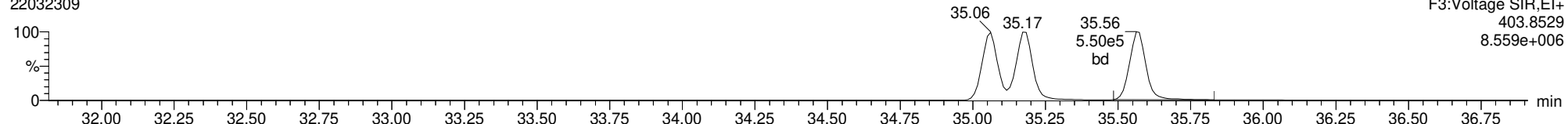
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22032309



**13C-123789-HxCDD**

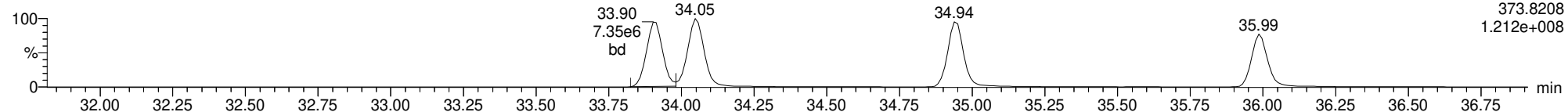
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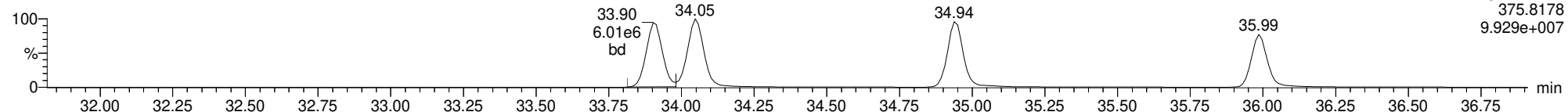
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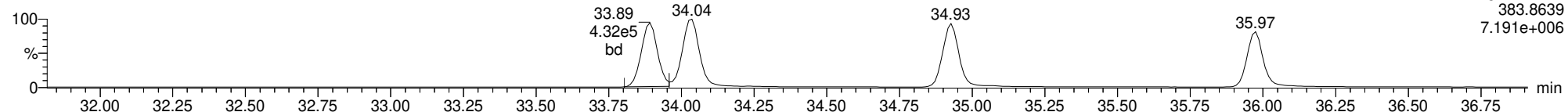
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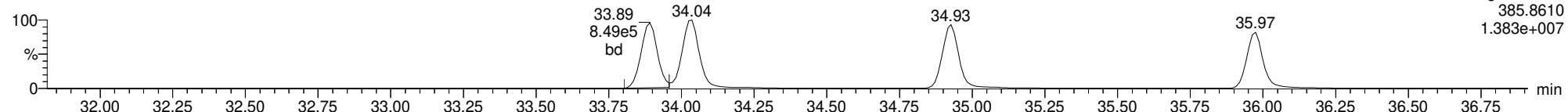
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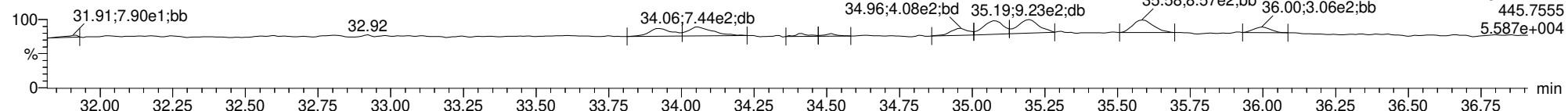
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22032309



FUNCTION3 OCDPE

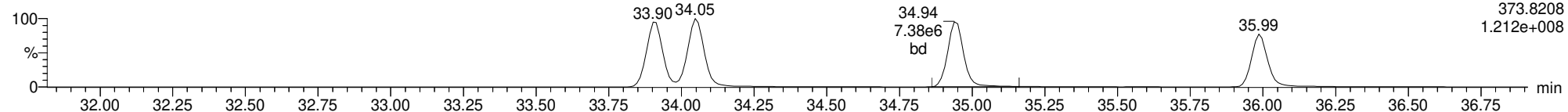
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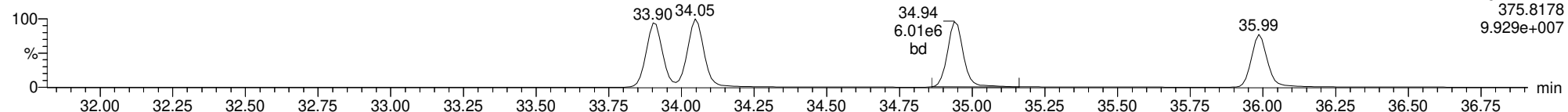
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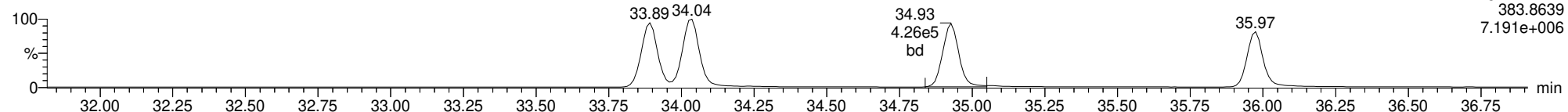
**234678-HxCDF**

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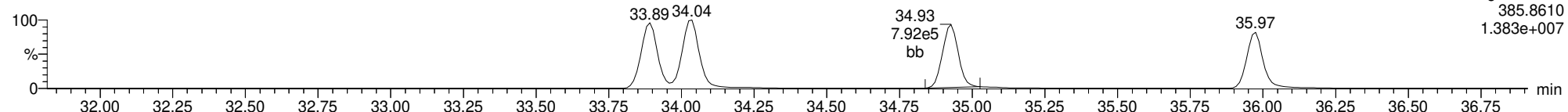
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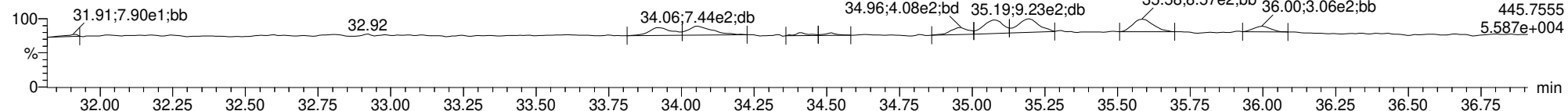
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**FUNCTION3 OCDPE**

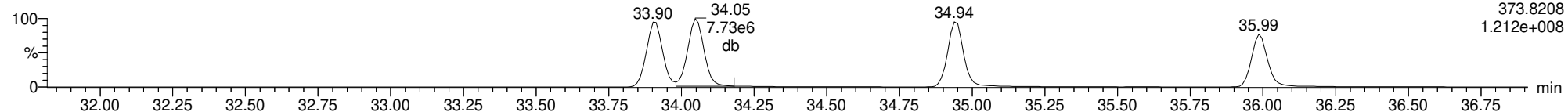
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ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

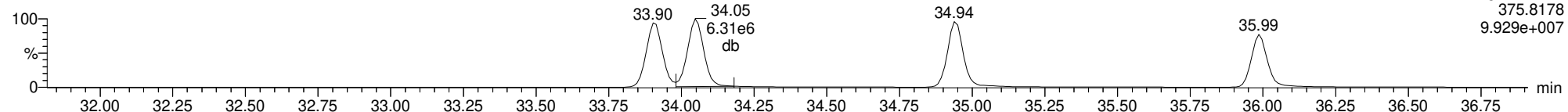
123678-HxCDF

22032309



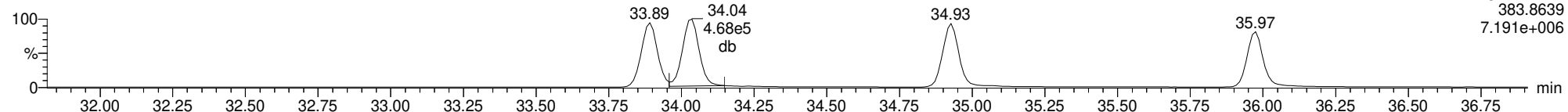
123678-HxCDF

22032309



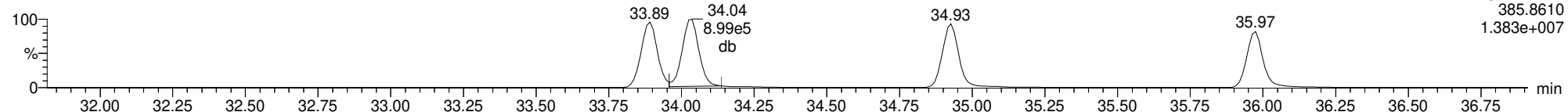
13C-123678-HxCDF

22032309



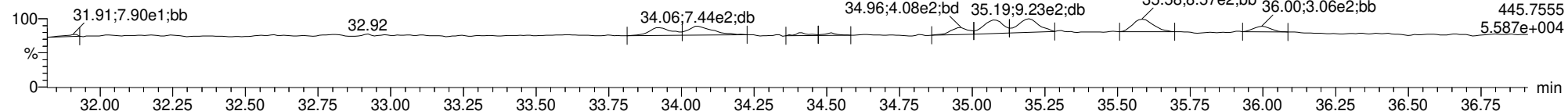
13C-123678-HxCDF

22032309



FUNCTION3 OCDPE

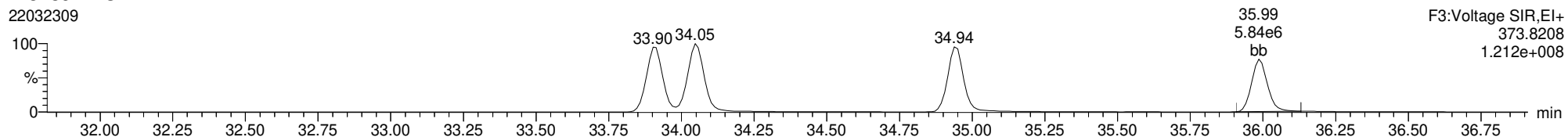
22032309



ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

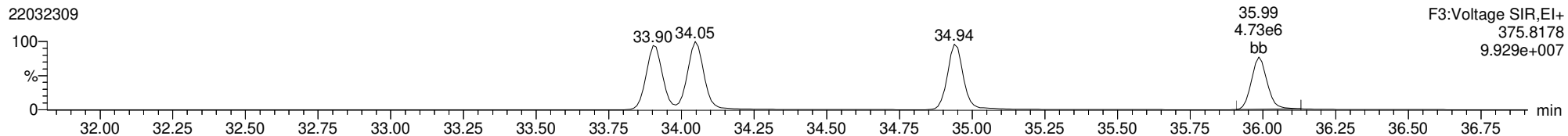
123789-HxCDF

22032309



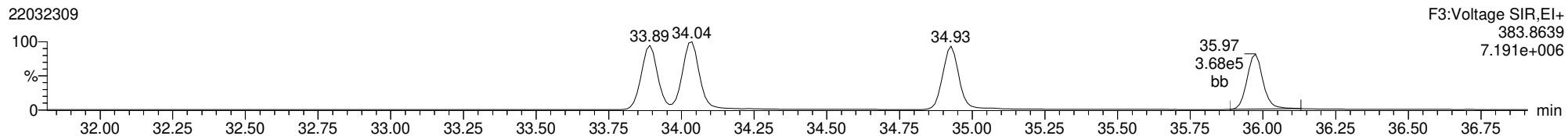
123789-HxCDF

22032309



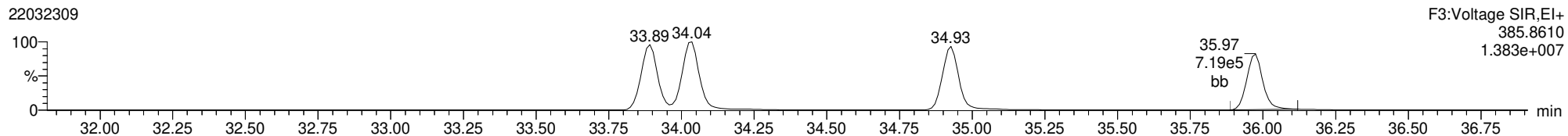
13C-123789-HxCDF

22032309



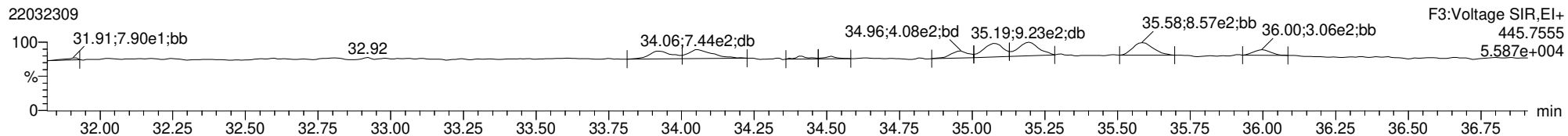
13C-123789-HxCDF

22032309



FUNCTION3 OCDPE

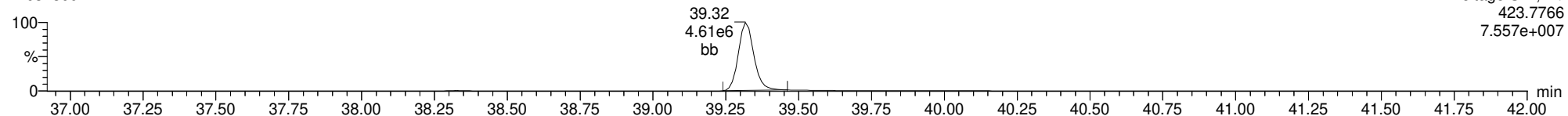
22032309



ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

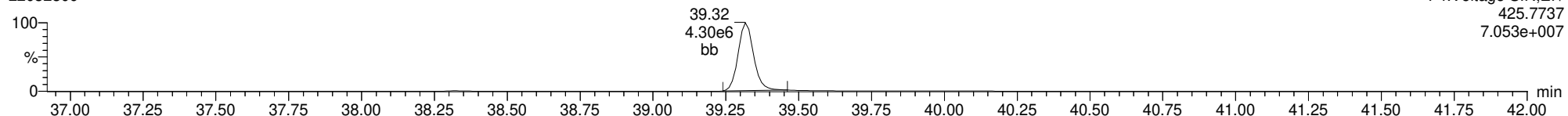
22032309



F4:Voltage SIR,El+  
423.7766  
7.557e+007

1234678-HpCDD

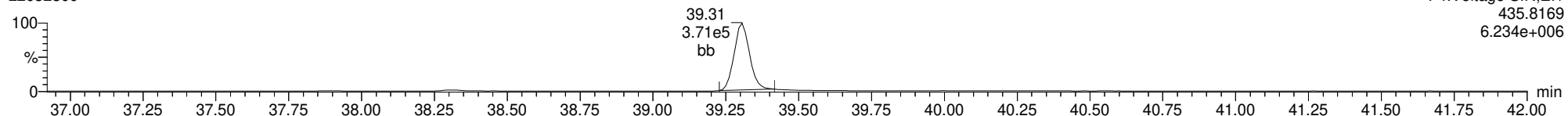
22032309



F4:Voltage SIR,El+  
425.7737  
7.053e+007

13C-1234678-HpCDD

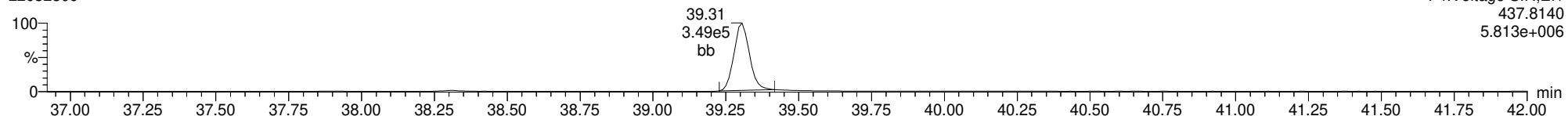
22032309



F4:Voltage SIR,El+  
435.8169  
6.234e+006

13C-1234678-HpCDD

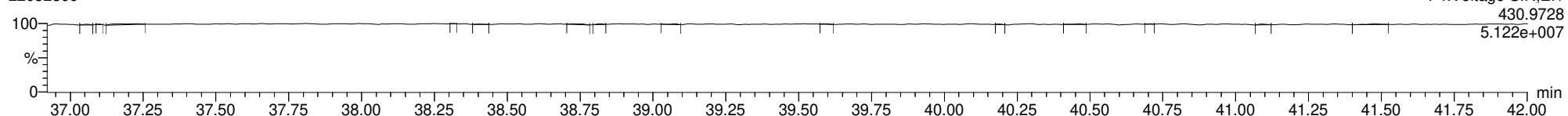
22032309



F4:Voltage SIR,El+  
437.8140  
5.813e+006

FUNCTION4 PFK

22032309

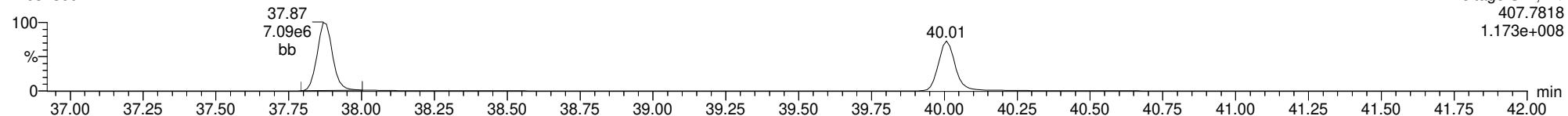


F4:Voltage SIR,El+  
430.9728  
5.122e+007

ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

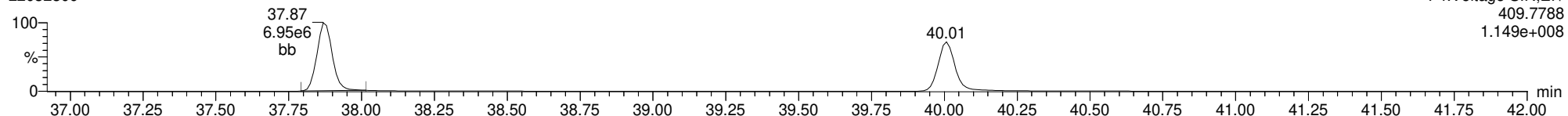
22032309



F4:Voltage SIR,El+  
407.7818  
1.173e+008

1234678-HpCDF

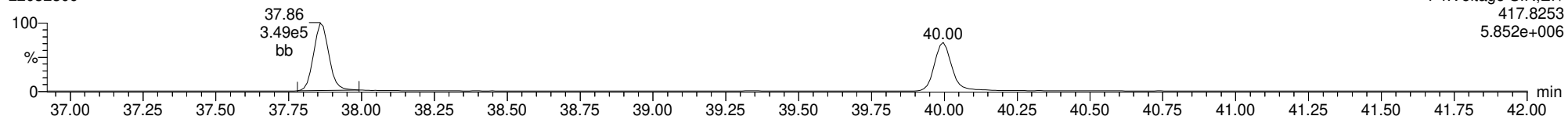
22032309



F4:Voltage SIR,El+  
409.7788  
1.149e+008

13C-1234678-HpCDF

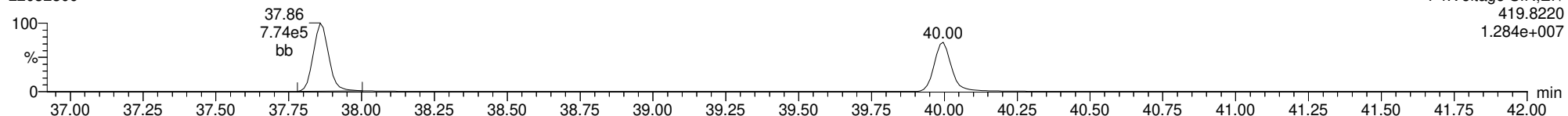
22032309



F4:Voltage SIR,El+  
417.8253  
5.852e+006

13C-1234678-HpCDF

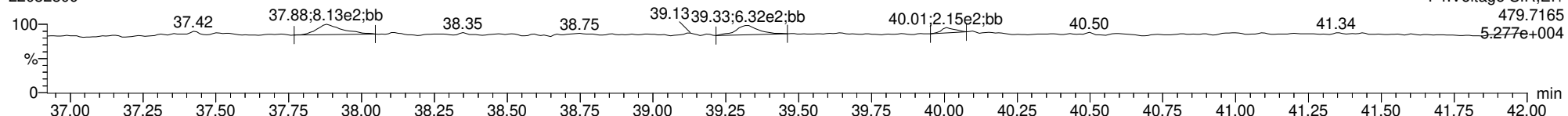
22032309



F4:Voltage SIR,El+  
419.8220  
1.284e+007

FUNCTION4 NCDPE

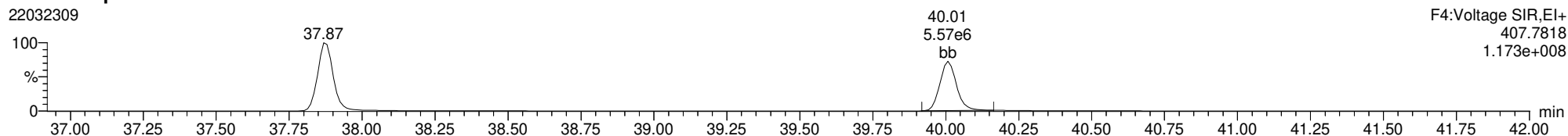
22032309



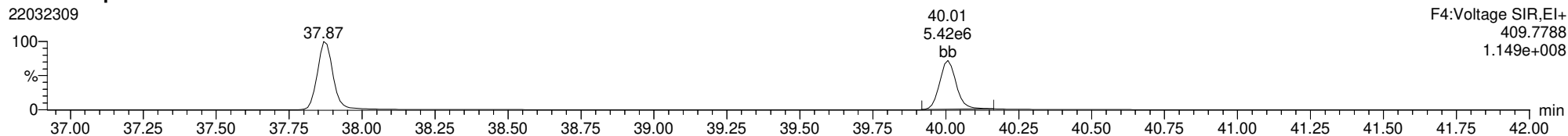
F4:Voltage SIR,El+  
479.7165  
5.277e+004

ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

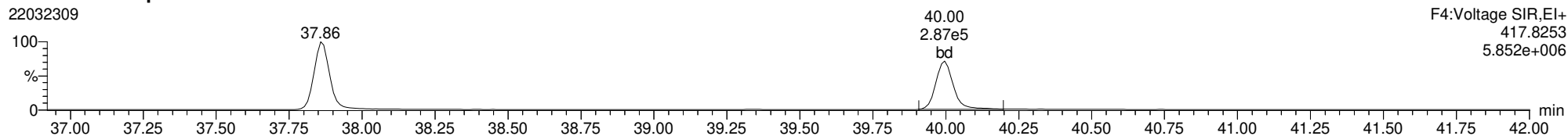
1234789-HpCDF



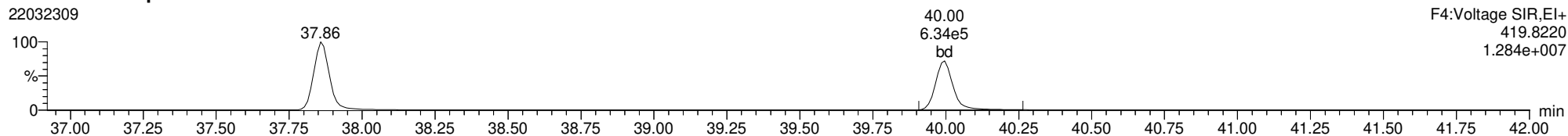
1234789-HpCDF



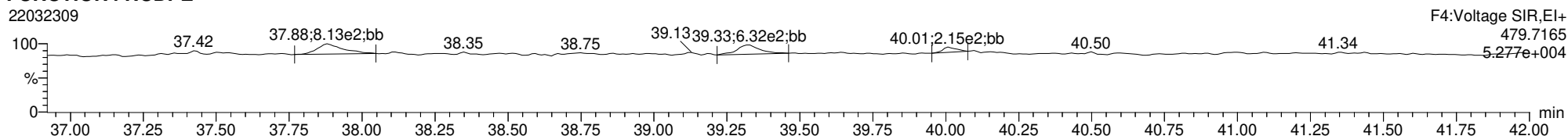
13C-1234789-HpCDF



13C-1234789-HpCDF



FUNCTION4 NCDPE

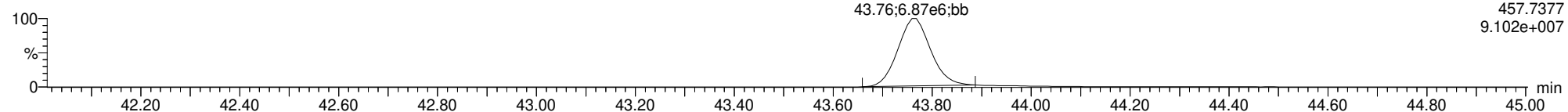




ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

**OCDD**

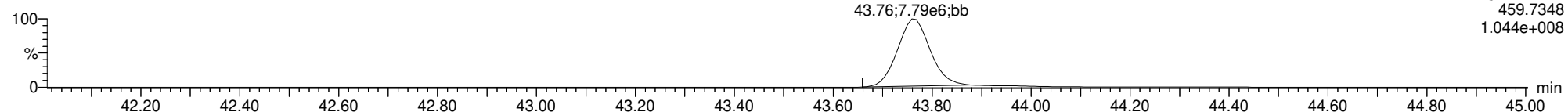
22032309



F5:Voltage SIR,El+  
457.7377  
9.102e+007

**OCDD**

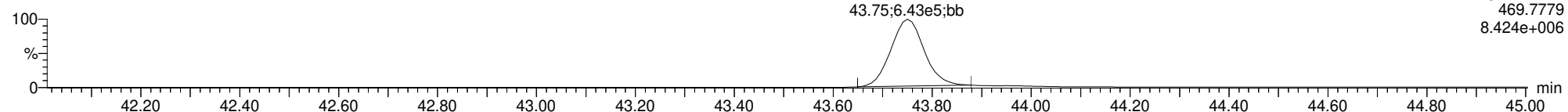
22032309



F5:Voltage SIR,El+  
459.7348  
1.044e+008

**13C-OCDD**

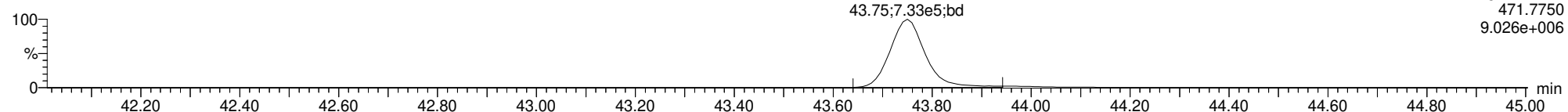
22032309



F5:Voltage SIR,El+  
469.7779  
8.424e+006

**13C-OCDD**

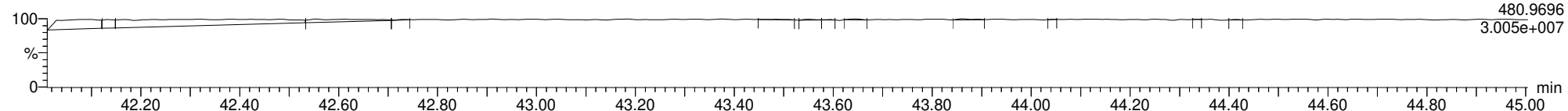
22032309



F5:Voltage SIR,El+  
471.7750  
9.026e+006

**FUNCTION5 PFK**

22032309

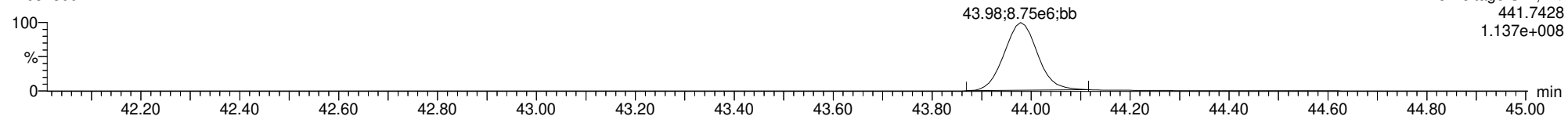


F5:Voltage SIR,El+  
480.9696  
3.005e+007

ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

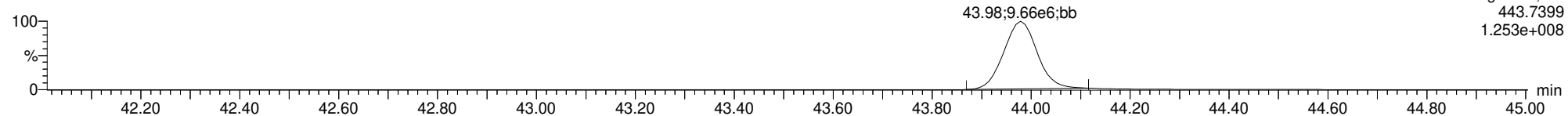
**OCDF**

22032309



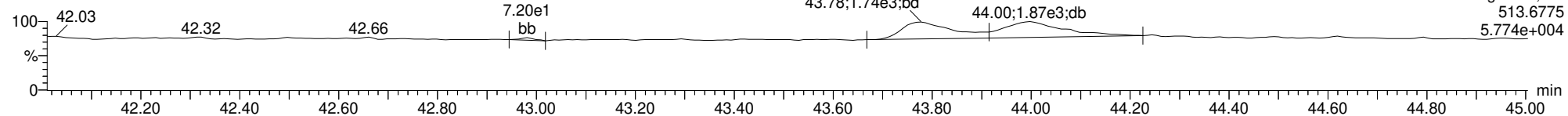
**OCDF**

22032309



**FUNCTION5 DCDPE**

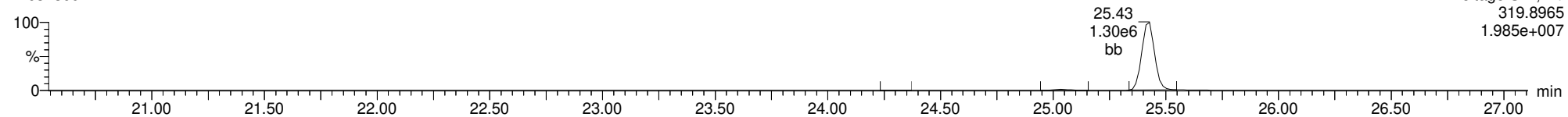
22032309



ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

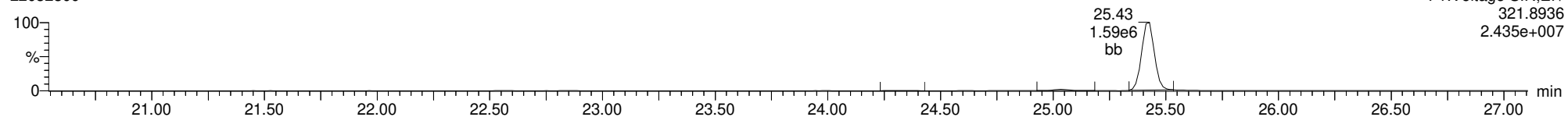
**Total-tetradoxins**

22032309



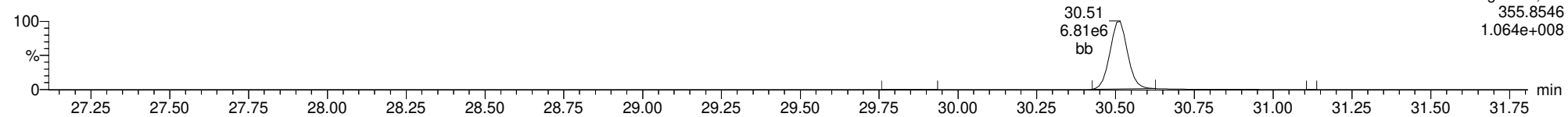
**Total-tetradoxins**

22032309



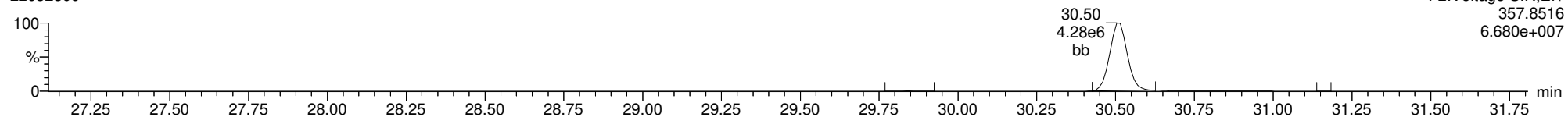
**Total-pentadoxins**

22032309



**Total-pentadoxins**

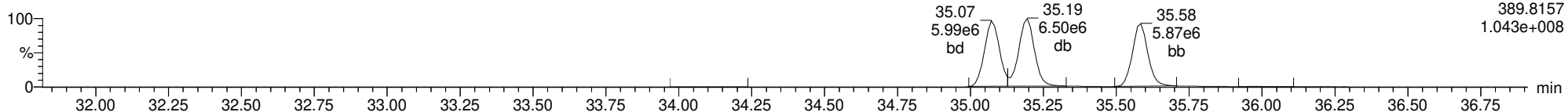
22032309



ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

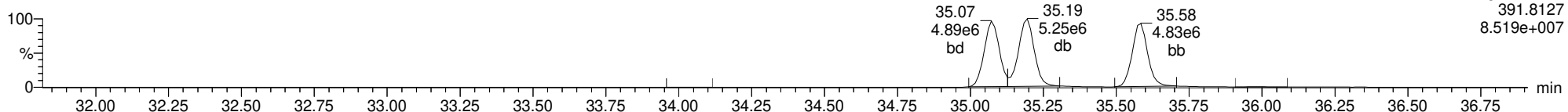
**Total-hexadioxins**

22032309



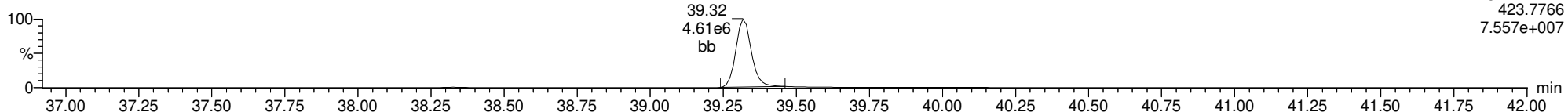
**Total-hexadioxins**

22032309



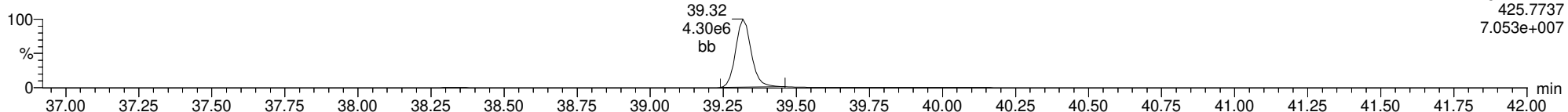
**Total-heptadioxins**

22032309



**Total-heptadioxins**

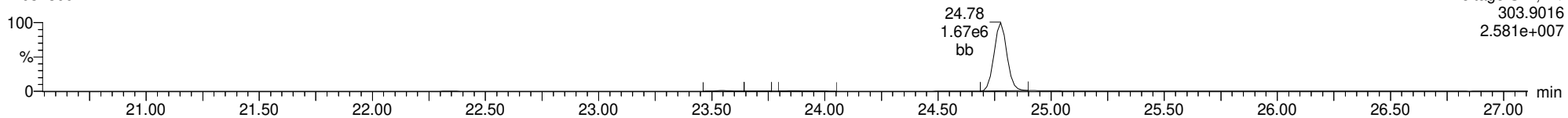
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ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

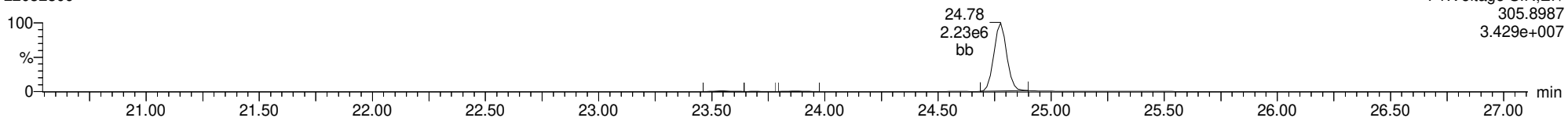
**Total-tetrafurans**

22032309



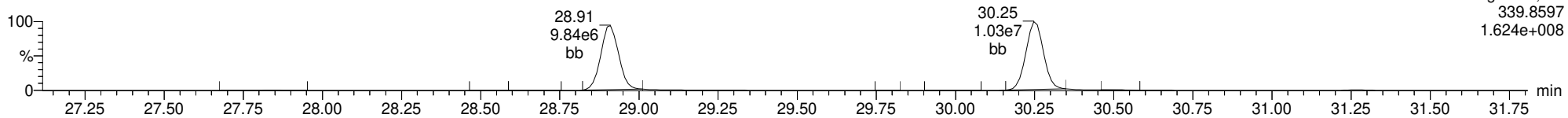
**Total-tetrafurans**

22032309



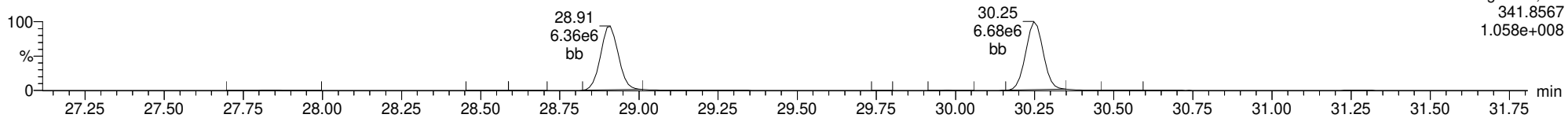
**Total-pentafurans**

22032309



**Total-pentafurans**

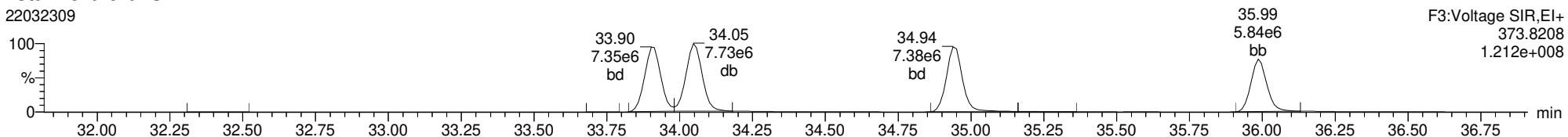
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ID: CS5CH, Name: 22032309, Date: 23-Mar-2022, Time: 15:59:12, Conditions: AUTOSPEC01, User: pk

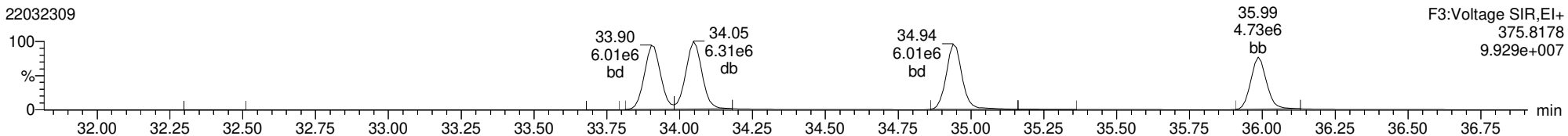
**Total-hexafurans**

22032309



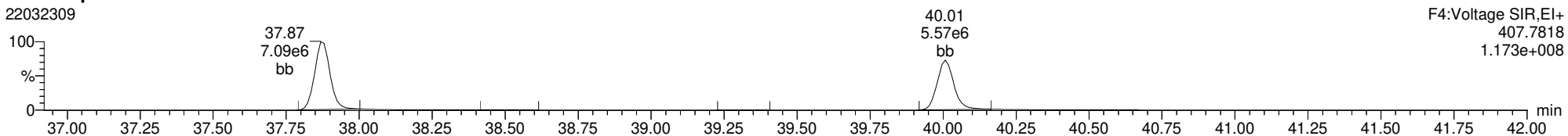
**Total-hexafurans**

22032309



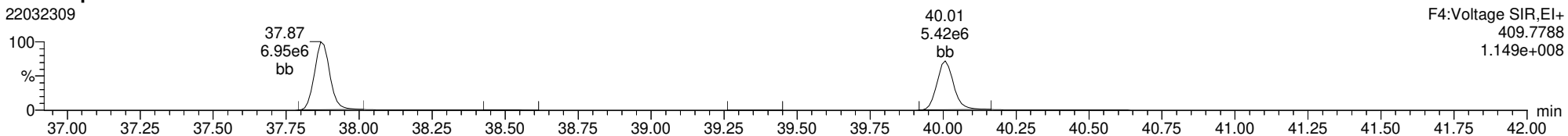
**Total-heptafurans**

22032309



**Total-heptafurans**

22032309



Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
 Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:34:06 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
 Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14

ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	24.777	1.001	7.638e4	1.005e5	0.985	0.760	0.770	1384	1706	1.12e6	1.51e6	812.6	886.2	NO	bb	bb	10.582
12378-PeCDF	28.910	1.001	4.158e5	2.728e5	0.906	1.524	1.550	4436	3132	6.20e6	4.09e6	1398.1	1307.5	NO	bb	bb	53.149
23478-PeCDF	30.247	1.000	4.147e5	2.681e5	1.008	1.547	1.550	4436	3132	6.19e6	4.02e6	1395.7	1284.8	NO	bb	bb	48.625
123478-HxCDF	33.902	1.000	2.867e5	2.345e5	1.045	1.223	1.240	2515	2889	4.28e6	3.52e6	1701.5	1217.6	NO	bd	bd	53.359
234678-HxCDF	34.949	1.001	2.693e5	2.202e5	1.101	1.223	1.240	2515	2889	3.98e6	3.26e6	1582.0	1129.4	NO	bb	bb	53.667
123678-HxCDF	34.057	1.001	3.111e5	2.669e5	1.019	1.165	1.240	2515	2889	4.40e6	3.55e6	1751.3	1230.0	NO	db	db	54.492
123789-HxCDF	35.985	1.000	2.187e5	1.791e5	0.992	1.221	1.240	2515	2889	3.13e6	2.57e6	1245.9	888.6	NO	bb	bb	54.685
1234678-HpCDF	37.879	1.000	2.905e5	2.740e5	1.243	1.060	1.050	1848	3300	4.34e6	4.26e6	2348.2	1290.3	NO	bb	bb	56.325
1234789-HpCDF	40.007	1.000	2.145e5	1.934e5	1.192	1.109	1.050	1848	3300	2.84e6	2.69e6	1535.0	815.6	NO	bd	bb	59.518
OCDF	43.978	1.005	2.633e5	2.991e5	1.303	0.880	0.890	1819	2779	3.05e6	3.42e6	1677.5	1230.7	NO	bb	bb	108.347
2378-TCDD	25.427	1.001	5.025e4	6.495e4	1.168	0.774	0.770	1932	1117	7.40e5	9.58e5	383.1	857.0	NO	bb	bb	11.682
12378-PeCDD	30.514	1.001	2.798e5	1.785e5	1.152	1.567	1.550	1575	1905	4.12e6	2.60e6	2615.2	1364.5	NO	bb	bb	55.060
123478-HxCDD	35.071	1.000	2.397e5	1.925e5	0.934	1.245	1.240	2018	2498	3.71e6	2.99e6	1839.1	1196.4	NO	bd	bd	57.238
123678-HxCDD	35.194	1.000	2.539e5	2.003e5	0.950	1.268	1.240	2018	2498	3.65e6	2.98e6	1807.9	1193.3	NO	db	db	52.200
123789-HxCDD	35.584	1.011	2.211e5	1.747e5	0.873	1.265	1.240	2018	2498	3.15e6	2.60e6	1562.2	1041.1	NO	bd	bb	52.585
1234678-HpCDD	39.327	1.001	1.639e5	1.611e5	1.268	1.018	1.050	2607	2022	2.41e6	2.26e6	922.9	1117.5	NO	bb	bd	54.973
OCDD	43.768	1.000	2.253e5	2.550e5	1.089	0.884	0.890	2457	3777	2.42e6	2.77e6	986.9	733.4	NO	bd	bd	110.689
13C-2378-TCDF	24.762	1.007	7.493e5	9.485e5	1.751	0.790	0.770	3280	1928	1.15e7	1.44e7	3496.8	7474.1	NO	bb	bb	101.842
13C-12378-PeCDF	28.888	1.175	8.702e5	5.605e5	1.442	1.553	1.550	2817	3308	1.29e7	8.27e6	4570.0	2499.9	NO	bb	bb	104.245
13C-23478-PeCDF	30.236	1.229	8.397e5	5.540e5	1.366	1.516	1.550	2817	3308	1.24e7	7.95e6	4384.6	2404.1	NO	bb	bd	107.197
13C-123478-HxCDF	33.890	0.953	3.199e5	6.145e5	1.095	0.521	0.510	2995	2479	4.86e6	9.44e6	1622.7	3808.4	NO	bd	bd	118.176
13C-123678-HxCDF	34.035	0.957	3.465e5	6.940e5	1.168	0.499	0.510	2995	2479	4.99e6	9.78e6	1667.5	3946.1	NO	db	db	123.378
13C-234678-HxCDF	34.926	0.982	2.804e5	5.481e5	1.023	0.512	0.510	2995	2479	4.30e6	8.50e6	1434.7	3430.5	NO	bb	bb	112.149
13C-123789-HxCDF	35.974	1.012	2.459e5	4.872e5	0.879	0.505	0.510	2995	2479	3.60e6	7.00e6	1202.2	2823.0	NO	bb	bb	115.517
13C-1234678-HpCDF	37.868	1.065	2.415e5	5.647e5	0.925	0.428	0.440	1913	5933	3.62e6	8.18e6	1892.5	1378.5	NO	bb	bd	120.612
13C-1234789-HpCDF	39.996	1.125	1.722e5	4.026e5	0.715	0.428	0.440	1913	5933	2.39e6	5.35e6	1247.7	901.6	NO	bb	bd	111.340
13C-1234-TCDD	24.595	0.000	4.169e5	5.350e5	1.000	0.779	0.770	2604	1290	6.38e6	8.17e6	2449.5	6333.8	NO	bb	bb	100.000
13C-2378-TCDD	25.397	1.033	3.700e5	4.743e5	1.081	0.780	0.770	2604	1290	5.43e6	6.92e6	2084.0	5367.9	NO	bb	bb	82.017
13C-12378-PeCDD	30.492	1.240	4.458e5	2.769e5	0.776	1.610	1.550	2124	1448	6.60e6	4.09e6	3108.1	2825.2	NO	bb	bb	97.781
13C-123478-HxCDD	35.060	0.986	4.494e5	3.590e5	0.975	1.252	1.240	2681	2375	7.25e6	5.74e6	2704.9	2417.0	NO	bd	bd	114.818
13C-123678-HxCDD	35.183	0.989	5.056e5	4.101e5	1.067	1.233	1.240	2681	2375	7.23e6	5.76e6	2696.6	2425.3	NO	db	db	118.882
13C-1234678-HpCDD	39.305	1.105	2.396e5	2.265e5	0.582	1.058	1.050	2399	1372	3.60e6	3.40e6	1499.5	2478.9	NO	bb	bb	110.980
13C-OCDD	43.749	1.230	3.661e5	4.307e5	0.509	0.850	0.890	2652	2102	4.04e6	4.52e6	1524.3	2149.8	NO	bb	bd	216.922
13C-123789-HxCDD	35.562	0.000	3.976e5	3.246e5	1.000	1.225	1.240	2681	2375	5.86e6	4.79e6	2185.6	2015.2	NO	bb	bb	100.000
37CL-2378-TCDD	25.427	1.034	1.123e5		1.120			1690		1.65e6		975.2			bb		10.534

Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
 Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
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ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.299	0.860	9.003e4	1.186e5	1.300	0.759	0.770	1384	1706	1.37e6	1.85e6	991.3	1081.8	NO	bd	bb	9.449
1289-TCDF	26.258	1.060	4.755e4	6.547e4	0.931	0.726	0.770	1384	1706	6.93e5	8.93e5	500.6	523.4	NO	db	dd	7.147
13468-PECDF	26.122	0.904	4.499e5	3.022e5	1.308	1.488	1.550	1005	1135	6.58e6	4.49e6	6543.1	3952.6	NO	bb	bb	40.177
12389-PECDF	31.272	1.083	3.151e5	2.041e5	0.860	1.544	1.550	4436	3132	4.63e6	2.98e6	1044.0	952.2	NO	bb	bb	42.184
123468-HXCDF	32.208	0.950	3.460e5	2.666e5	1.156	1.298	1.240	2515	2889	4.87e6	3.85e6	1937.4	1333.2	NO	bb	bb	56.693
1368-TCDD	22.584	0.889	5.672e4	7.080e4	1.151	0.801	0.770	1932	1117	9.02e5	1.11e6	467.1	995.0	NO	bb	bb	13.125
1289-TCDD	26.017	1.024	4.776e4	5.953e4	0.950	0.802	0.770	1932	1117	6.83e5	8.48e5	353.5	759.0	NO	bb	bb	13.377
12479-PECDD	27.807	0.912	4.147e5	2.607e5	2.164	1.590	1.550	1575	1905	3.99e6	2.52e6	2534.7	1323.0	NO	bb	bb	43.184
12389-PECDD	30.904	1.014	2.691e5	1.716e5	1.371	1.568	1.550	1575	1905	3.92e6	2.47e6	2490.7	1298.2	NO	bb	bb	44.488
124679-HXCDD	32.999	0.941	2.948e5	2.401e5	1.153	1.228	1.240	2018	2498	4.23e6	3.50e6	2093.3	1401.9	NO	bb	bb	57.411
1234679-HPCDD	38.325	0.975	1.901e5	1.735e5	1.473	1.095	1.050	2607	2022	2.85e6	2.71e6	1094.1	1338.1	NO	bd	bb	52.934
Total-tetrafurans			2.213e5		1.072			1384		3.29e6							28.081
Total-penta1			4.499e5					1005		6.58e6							40.177
Total-pentafurans			1.210e6		0.924			4436		1.80e7							152.175
Total-hexafurans			1.432e6		1.063			2515		2.07e7							272.897
Total-heptafurans			5.058e5		1.218			1848		7.20e6							116.039
Total-Furans			4.082e6		1.090			1384		5.88e7							717.715
Total-tetradoxins			2.697e5		1.090			1932		3.51e6							66.138
Total-pentadoxins			9.635e5		1.562			1575		1.20e7							142.732
Total-hexadoxins			1.009e6		0.978			2018		1.47e7							219.434
Total-heptadoxins			3.540e5		1.371			2607		5.26e6							107.907
Total-Dioxins			2.822e6		1.207			1932		3.80e7							646.899
Total-TEQ			6.904e6					1932		9.68e7							1364.614
FUNCTION1 PFK			0.000e0					542755		0.00e0							
FUNCTION2 PFK			1.117e6					496131		2.60e7							0.000
FUNCTION3 PFK			8.933e5					346824		2.06e7							0.000
FUNCTION4 PFK			0.000e0					339318		0.00e0							
FUNCTION5 PFK			2.504e5					180413		7.70e6							
FUNCTION1 HXCDPE			4.881e2					603		7.67e3							0.000
FUNCTION1 HPCDPE			1.635e3					875		2.77e4							0.000
FUNCTION2 HPCDPE			6.683e2					736		1.38e4							0.000
FUNCTION3 OCDPE			8.484e2					614		1.07e4							0.000
FUNCTION4 NCDPE			7.034e1					771		1.56e3							0.000
FUNCTION5 DCDPE			0.000e0					646		0.00e0							



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Method:** T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29

**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14

**ID:** ICVCH, **Name:** 22032310, **Date:** 23-Mar-2022, **Time:** 16:46:49, **Conditions:** AUTOSPEC01, **User:** pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.26	4.755e4	6.547e4	0.931	0.73	0.77	500.6	YES	NO	db	dd	7.147
2	2378-TCDF	24.78	7.638e4	1.005e5	0.985	0.76	0.77	812.6	YES	NO	bb	bb	10.582
3	Total-tetrafurans	23.87	5.890e3	7.322e3	1.072	0.80	0.77	60.3	YES	NO	db	bb	0.726
4	Total-tetrafurans	23.70	5.626e2	6.983e2	1.072	0.81	0.77	6.4	YES	NO	dd	db	0.069
5	Total-tetrafurans	23.54	8.487e2	1.116e3	1.072	0.76	0.77	9.9	YES	NO	bd	bd	0.108
6	1368-TCDF	21.30	9.003e4	1.186e5	1.300	0.76	0.77	991.3	YES	NO	bd	bb	9.449

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.12	4.499e5	3.022e5	1.308	1.49	1.55	6543.1	YES	NO	bb	bb	40.177

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	31.27	3.151e5	2.041e5	0.860	1.54	1.55	1044.0	YES	NO	bb	bb	42.184
2	23478-PeCDF	30.25	4.147e5	2.681e5	1.008	1.55	1.55	1395.7	YES	NO	bb	bb	48.625
3	Total-pentafurans	29.11	6.628e3	4.411e3	0.924	1.50	1.55	26.2	YES	NO	bb	bb	0.846
4	12378-PeCDF	28.91	4.158e5	2.728e5	0.906	1.52	1.55	1398.1	YES	NO	bb	bb	53.149
5	Total-pentafurans	27.77	5.778e4	3.847e4	0.924	1.50	1.55	194.6	YES	NO	bb	bb	7.372

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	33.90	2.867e5	2.345e5	1.045	1.22	1.24	1701.5	YES	NO	bd	bd	53.359
2	123468-HxCDF	32.21	3.460e5	2.666e5	1.156	1.30	1.24	1937.4	YES	NO	bb	bb	56.693
3	123789-HxCDF	35.98	2.187e5	1.791e5	0.992	1.22	1.24	1245.9	YES	NO	bb	bb	54.685
4	234678-HxCDF	34.95	2.693e5	2.202e5	1.101	1.22	1.24	1582.0	YES	NO	bb	bb	53.667
5	123678-HxCDF	34.06	3.111e5	2.669e5	1.019	1.17	1.24	1751.3	YES	NO	db	db	54.492

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.01	2.145e5	1.934e5	1.192	1.11	1.05	1535.0	YES	NO	bd	bb	59.518
2	Total-heptafurans	38.54	2.704e2	2.805e2	1.218	0.96	1.05	4.8	NO	NO	db	db	0.066
3	Total-heptafurans	38.50	2.702e2	2.545e2	1.218	1.06	1.05	4.9	NO	NO	bd	dd	0.062
4	Total-heptafurans	38.30	2.771e2	2.848e2	1.218	0.97	1.05	5.4	NO	NO	bd	db	0.067
5	1234678-HpCDF	37.88	2.905e5	2.740e5	1.243	1.06	1.05	2348.2	YES	NO	bb	bb	56.325

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.26	4.755e4	6.547e4	0.931	0.73	0.77	500.6	YES	NO	db	dd	7.147
2	2378-TCDF	24.78	7.638e4	1.005e5	0.985	0.76	0.77	812.6	YES	NO	bb	bb	10.582
3	Total-tetrafurans	23.87	5.890e3	7.322e3	1.072	0.80	0.77	60.3	YES	NO	db	bb	0.726
4	Total-tetrafurans	23.70	5.626e2	6.983e2	1.072	0.81	0.77	6.4	YES	NO	dd	db	0.069
5	Total-tetrafurans	23.54	8.487e2	1.116e3	1.072	0.76	0.77	9.9	YES	NO	bd	bd	0.108
6	1368-TCDF	21.30	9.003e4	1.186e5	1.300	0.76	0.77	991.3	YES	NO	bd	bb	9.449
7	12389-PECDF	31.27	3.151e5	2.041e5	0.860	1.54	1.55	1044.0	YES	NO	bb	bb	42.184
8	23478-PeCDF	30.25	4.147e5	2.681e5	1.008	1.55	1.55	1395.7	YES	NO	bb	bb	48.625
9	Total-pentafurans	29.11	6.628e3	4.411e3	0.924	1.50	1.55	26.2	YES	NO	bb	bb	0.846
10	12378-PeCDF	28.91	4.158e5	2.728e5	0.906	1.52	1.55	1398.1	YES	NO	bb	bb	53.149
11	Total-pentafurans	27.77	5.778e4	3.847e4	0.924	1.50	1.55	194.6	YES	NO	bb	bb	7.372
12	123478-HxCDF	33.90	2.867e5	2.345e5	1.045	1.22	1.24	1701.5	YES	NO	bd	bd	53.359
13	123468-HXCDF	32.21	3.460e5	2.666e5	1.156	1.30	1.24	1937.4	YES	NO	bb	bb	56.693
14	123789-HxCDF	35.98	2.187e5	1.791e5	0.992	1.22	1.24	1245.9	YES	NO	bb	bb	54.685
15	234678-HxCDF	34.95	2.693e5	2.202e5	1.101	1.22	1.24	1582.0	YES	NO	bb	bb	53.667
16	123678-HxCDF	34.06	3.111e5	2.669e5	1.019	1.17	1.24	1751.3	YES	NO	db	db	54.492
17	1234789-HpCDF	40.01	2.145e5	1.934e5	1.192	1.11	1.05	1535.0	YES	NO	bd	bb	59.518
18	Total-heptafurans	38.54	2.704e2	2.805e2	1.218	0.96	1.05	4.8	NO	NO	db	db	0.066
19	Total-heptafurans	38.50	2.702e2	2.545e2	1.218	1.06	1.05	4.9	NO	NO	bd	dd	0.062
20	Total-heptafurans	38.30	2.771e2	2.848e2	1.218	0.97	1.05	5.4	NO	NO	bd	db	0.067
21	1234678-HpCDF	37.88	2.905e5	2.740e5	1.243	1.06	1.05	2348.2	YES	NO	bb	bb	56.325
22	OCDF	43.98	2.633e5	2.991e5	1.303	0.88	0.89	1677.5	YES	NO	bb	bb	108.347
23	13468-PECDF	26.12	4.499e5	3.022e5	1.308	1.49	1.55	6543.1	YES	NO	bb	bb	40.177

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.02	4.776e4	5.953e4	0.950	0.80	0.77	353.5	YES	NO	bb	bb	13.377
2	2378-TCDD	25.43	5.025e4	6.495e4	1.168	0.77	0.77	383.1	YES	NO	bb	bb	11.682
3	Total-tetradiioxins	25.09	8.929e4	1.104e5	1.090	0.81	0.77	406.4	YES	NO	bb	bb	21.707
4	Total-tetradiioxins	24.61	2.565e4	3.181e4	1.090	0.81	0.77	204.8	YES	NO	bd	bd	6.247
5	1368-TCDD	22.58	5.672e4	7.080e4	1.151	0.80	0.77	467.1	YES	NO	bb	bb	13.125

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	30.90	2.691e5	1.716e5	1.371	1.57	1.55	2490.7	YES	NO	bb	bb	44.488
2	12378-PeCDD	30.51	2.798e5	1.785e5	1.152	1.57	1.55	2615.2	YES	NO	bb	bb	55.060
3	12479-PECDD	27.81	4.147e5	2.607e5	2.164	1.59	1.55	2534.7	YES	NO	bb	bb	43.184

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	35.58	2.211e5	1.747e5	0.873	1.27	1.24	1562.2	YES	NO	bd	bb	52.585
2	123678-HxCDD	35.19	2.539e5	2.003e5	0.950	1.27	1.24	1807.9	YES	NO	db	db	52.200
3	123478-HxCDD	35.07	2.397e5	1.925e5	0.934	1.24	1.24	1839.1	YES	NO	bd	bd	57.238
4	124679-HxCDD	33.00	2.948e5	2.401e5	1.153	1.23	1.24	2093.3	YES	NO	bb	bb	57.411

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.33	1.639e5	1.611e5	1.268	1.02	1.05	922.9	YES	NO	bb	bd	54.973
2	1234679-HPCDD	38.32	1.901e5	1.735e5	1.473	1.10	1.05	1094.1	YES	NO	bd	bb	52.934

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.02	4.776e4	5.953e4	0.950	0.80	0.77	353.5	YES	NO	bb	bb	13.377
2	2378-TCDD	25.43	5.025e4	6.495e4	1.168	0.77	0.77	383.1	YES	NO	bb	bb	11.682
3	Total-tetradoxins	25.09	8.929e4	1.104e5	1.090	0.81	0.77	406.4	YES	NO	bb	bb	21.707
4	Total-tetradoxins	24.61	2.565e4	3.181e4	1.090	0.81	0.77	204.8	YES	NO	bd	bd	6.247
5	1368-TCDD	22.58	5.672e4	7.080e4	1.151	0.80	0.77	467.1	YES	NO	bb	bb	13.125
6	12389-PECCD	30.90	2.691e5	1.716e5	1.371	1.57	1.55	2490.7	YES	NO	bb	bb	44.488
7	12378-PeCDD	30.51	2.798e5	1.785e5	1.152	1.57	1.55	2615.2	YES	NO	bb	bb	55.060
8	12479-PECCD	27.81	4.147e5	2.607e5	2.164	1.59	1.55	2534.7	YES	NO	bb	bb	43.184
9	123789-HxCDD	35.58	2.211e5	1.747e5	0.873	1.27	1.24	1562.2	YES	NO	bd	bb	52.585
10	123678-HxCDD	35.19	2.539e5	2.003e5	0.950	1.27	1.24	1807.9	YES	NO	db	db	52.200
11	123478-HxCDD	35.07	2.397e5	1.925e5	0.934	1.24	1.24	1839.1	YES	NO	bd	bd	57.238
12	124679-HXCDD	33.00	2.948e5	2.401e5	1.153	1.23	1.24	2093.3	YES	NO	bb	bb	57.411
13	1234678-HpCDD	39.33	1.639e5	1.611e5	1.268	1.02	1.05	922.9	YES	NO	bb	bd	54.973
14	1234679-HPCDD	38.32	1.901e5	1.735e5	1.473	1.10	1.05	1094.1	YES	NO	bd	bb	52.934
15	OCDD	43.77	2.253e5	2.550e5	1.089	0.88	0.89	986.9	YES	NO	bd	bd	110.689

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.26	4.755e4	6.547e4	0.931	0.73	0.77	500.6	YES	NO	db	dd	7.147
2	2378-TCDF	24.78	7.638e4	1.005e5	0.985	0.76	0.77	812.6	YES	NO	bb	bb	10.582
3	Total-tetrafurans	23.87	5.890e3	7.322e3	1.072	0.80	0.77	60.3	YES	NO	db	bb	0.726
4	Total-tetrafurans	23.70	5.626e2	6.983e2	1.072	0.81	0.77	6.4	YES	NO	dd	db	0.069
5	Total-tetrafurans	23.54	8.487e2	1.116e3	1.072	0.76	0.77	9.9	YES	NO	bd	bd	0.108
6	1368-TCDF	21.30	9.003e4	1.186e5	1.300	0.76	0.77	991.3	YES	NO	bd	bb	9.449
7	12389-PECDF	31.27	3.151e5	2.041e5	0.860	1.54	1.55	1044.0	YES	NO	bb	bb	42.184
8	23478-PeCDF	30.25	4.147e5	2.681e5	1.008	1.55	1.55	1395.7	YES	NO	bb	bb	48.625
9	Total-pentafurans	29.11	6.628e3	4.411e3	0.924	1.50	1.55	26.2	YES	NO	bb	bb	0.846
10	12378-PeCDF	28.91	4.158e5	2.728e5	0.906	1.52	1.55	1398.1	YES	NO	bb	bb	53.149
11	Total-pentafurans	27.77	5.778e4	3.847e4	0.924	1.50	1.55	194.6	YES	NO	bb	bb	7.372
12	123478-HxCDF	33.90	2.867e5	2.345e5	1.045	1.22	1.24	1701.5	YES	NO	bd	bd	53.359
13	123468-HXCDF	32.21	3.460e5	2.666e5	1.156	1.30	1.24	1937.4	YES	NO	bb	bb	56.693
14	123789-HxCDF	35.98	2.187e5	1.791e5	0.992	1.22	1.24	1245.9	YES	NO	bb	bb	54.685
15	234678-HxCDF	34.95	2.693e5	2.202e5	1.101	1.22	1.24	1582.0	YES	NO	bb	bb	53.667
16	123678-HxCDF	34.06	3.111e5	2.669e5	1.019	1.17	1.24	1751.3	YES	NO	db	db	54.492
17	1234789-HpCDF	40.01	2.145e5	1.934e5	1.192	1.11	1.05	1535.0	YES	NO	bd	bb	59.518
18	Total-heptafurans	38.54	2.704e2	2.805e2	1.218	0.96	1.05	4.8	NO	NO	db	db	0.066
19	Total-heptafurans	38.50	2.702e2	2.545e2	1.218	1.06	1.05	4.9	NO	NO	bd	dd	0.062
20	Total-heptafurans	38.30	2.771e2	2.848e2	1.218	0.97	1.05	5.4	NO	NO	bd	db	0.067
21	1234678-HpCDF	37.88	2.905e5	2.740e5	1.243	1.06	1.05	2348.2	YES	NO	bb	bb	56.325
22	OCDF	43.98	2.633e5	2.991e5	1.303	0.88	0.89	1677.5	YES	NO	bb	bb	108.347
23	13468-PECDF	26.12	4.499e5	3.022e5	1.308	1.49	1.55	6543.1	YES	NO	bb	bb	40.177
24	1289-TCDD	26.02	4.776e4	5.953e4	0.950	0.80	0.77	353.5	YES	NO	bb	bb	13.377
25	2378-TCDD	25.43	5.025e4	6.495e4	1.168	0.77	0.77	383.1	YES	NO	bb	bb	11.682
26	Total-tetradioxins	25.09	8.929e4	1.104e5	1.090	0.81	0.77	406.4	YES	NO	bb	bb	21.707
27	Total-tetradioxins	24.61	2.565e4	3.181e4	1.090	0.81	0.77	204.8	YES	NO	bd	bd	6.247
28	1368-TCDD	22.58	5.672e4	7.080e4	1.151	0.80	0.77	467.1	YES	NO	bb	bb	13.125
29	12389-PECDD	30.90	2.691e5	1.716e5	1.371	1.57	1.55	2490.7	YES	NO	bb	bb	44.488
30	12378-PeCDD	30.51	2.798e5	1.785e5	1.152	1.57	1.55	2615.2	YES	NO	bb	bb	55.060
31	12479-PECDD	27.81	4.147e5	2.607e5	2.164	1.59	1.55	2534.7	YES	NO	bb	bb	43.184
32	123789-HxCDD	35.58	2.211e5	1.747e5	0.873	1.27	1.24	1562.2	YES	NO	bd	bb	52.585
33	123678-HxCDD	35.19	2.539e5	2.003e5	0.950	1.27	1.24	1807.9	YES	NO	db	db	52.200
34	123478-HxCDD	35.07	2.397e5	1.925e5	0.934	1.24	1.24	1839.1	YES	NO	bd	bd	57.238
35	124679-HXCDD	33.00	2.948e5	2.401e5	1.153	1.23	1.24	2093.3	YES	NO	bb	bb	57.411
36	1234678-HpCDD	39.33	1.639e5	1.611e5	1.268	1.02	1.05	922.9	YES	NO	bb	bd	54.973
37	1234679-HPCDD	38.32	1.901e5	1.735e5	1.473	1.10	1.05	1094.1	YES	NO	bd	bb	52.934

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
Printed: Thursday, March 24, 2022 09:34:06 Pacific Daylight Time

**ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk**

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	OCDD	43.77	2.253e5	2.550e5	1.089	0.88	0.89	986.9	YES	NO	bd	bd	110.689

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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 Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
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**ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk**

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	27.29	1.111e5					5.9	YES		dd		0.000
2	FUNCTION2 PFK	27.24	1.614e5					6.6	YES		dd		0.000
3	FUNCTION2 PFK	27.19	1.499e5					7.5	YES		dd		0.000
4	FUNCTION2 PFK	27.15	1.159e5					7.4	YES		bd		0.000
5	FUNCTION2 PFK	29.58	7.295e3					0.7	NO		db		0.000
6	FUNCTION2 PFK	29.51	1.102e4					0.7	NO		bd		0.000
7	FUNCTION2 PFK	29.34	5.268e3					0.6	NO		bb		0.000
8	FUNCTION2 PFK	29.16	2.272e3					0.4	NO		bb		0.000
9	FUNCTION2 PFK	29.00	3.771e3					0.7	NO		bb		0.000
10	FUNCTION2 PFK	28.91	3.833e4					1.9	NO		bb		0.000
11	FUNCTION2 PFK	28.78	5.716e3					0.5	NO		bb		0.000
12	FUNCTION2 PFK	28.55	2.614e3					0.5	NO		bb		0.000
13	FUNCTION2 PFK	28.32	1.848e4					1.3	NO		db		0.000
14	FUNCTION2 PFK	28.28	1.980e4					1.3	NO		dd		0.000
15	FUNCTION2 PFK	28.23	3.011e4					1.2	NO		bd		0.000
16	FUNCTION2 PFK	28.13	1.191e4					1.0	NO		bb		0.000
17	FUNCTION2 PFK	28.03	2.790e3					0.5	NO		bb		0.000
18	FUNCTION2 PFK	27.86	2.304e3					0.4	NO		db		0.000
19	FUNCTION2 PFK	27.83	4.055e3					0.6	NO		bd		0.000
20	FUNCTION2 PFK	27.41	2.464e5					3.8	YES		db		0.000
21	FUNCTION2 PFK	31.62	1.513e4					0.9	NO		bb		0.000
22	FUNCTION2 PFK	31.29	1.298e4					0.9	NO		bb		0.000
23	FUNCTION2 PFK	31.08	9.175e3					0.9	NO		bb		0.000
24	FUNCTION2 PFK	30.96	2.536e3					0.5	NO		bb		0.000
25	FUNCTION2 PFK	30.84	6.034e3					0.7	NO		bb		0.000
26	FUNCTION2 PFK	30.64	1.769e4					1.5	NO		bb		0.000
27	FUNCTION2 PFK	30.47	8.402e4					2.0	NO		bb		0.000
28	FUNCTION2 PFK	30.23	7.047e3					0.7	NO		bb		0.000
29	FUNCTION2 PFK	30.09	1.182e4					0.8	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk**

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	32.39	1.463e4					0.9	NO		bb		0.000
2	FUNCTION3 PFK	32.27	7.071e3					0.7	NO		bb		0.000
3	FUNCTION3 PFK	32.16	2.099e4					1.6	NO		bb		0.000
4	FUNCTION3 PFK	32.06	5.918e4					2.2	NO		db		0.000
5	FUNCTION3 PFK	31.96	1.869e4					1.8	NO		bd		0.000
6	FUNCTION3 PFK	31.90	3.569e4					3.1	YES		bb		0.000
7	FUNCTION3 PFK	34.76	2.898e4					2.1	NO		bd		0.000
8	FUNCTION3 PFK	34.57	1.581e4					1.5	NO		db		0.000
9	FUNCTION3 PFK	34.53	2.780e4					2.2	NO		dd		0.000
10	FUNCTION3 PFK	34.48	2.966e4					2.5	NO		dd		0.000
11	FUNCTION3 PFK	34.41	4.370e4					2.5	NO		bd		0.000
12	FUNCTION3 PFK	34.35	6.383e4					3.5	YES		db		0.000
13	FUNCTION3 PFK	34.26	9.764e3					1.1	NO		bd		0.000
14	FUNCTION3 PFK	33.97	2.454e4					1.6	NO		bb		0.000
15	FUNCTION3 PFK	33.76	1.210e4					1.4	NO		bb		0.000
16	FUNCTION3 PFK	33.53	7.391e4					2.7	NO		bb		0.000
17	FUNCTION3 PFK	33.32	1.422e4					1.2	NO		db		0.000
18	FUNCTION3 PFK	33.22	3.694e4					1.9	NO		bd		0.000
19	FUNCTION3 PFK	32.91	2.330e3					0.6	NO		bb		0.000
20	FUNCTION3 PFK	32.63	2.050e4					0.8	NO		bb		0.000
21	FUNCTION3 PFK	32.52	1.364e4					0.9	NO		db		0.000
22	FUNCTION3 PFK	32.49	1.549e4					1.6	NO		bd		0.000
23	FUNCTION3 PFK	36.80	1.678e4					1.4	NO		bb		0.000
24	FUNCTION3 PFK	36.66	1.625e4					1.5	NO		bb		0.000
25	FUNCTION3 PFK	36.25	1.379e4					1.1	NO		bb		0.000
26	FUNCTION3 PFK	36.17	3.890e4					2.0	NO		db		0.000
27	FUNCTION3 PFK	36.11	1.661e4					1.5	NO		bd		0.000
28	FUNCTION3 PFK	35.95	7.787e3					0.9	NO		bb		0.000
29	FUNCTION3 PFK	35.78	9.494e3					0.6	NO		bb		0.000
30	FUNCTION3 PFK	35.71	1.037e4					1.3	NO		bb		0.000
31	FUNCTION3 PFK	35.51	4.102e3					0.7	NO		bb		0.000
32	FUNCTION3 PFK	35.47	3.332e3					0.5	NO		bb		0.000
33	FUNCTION3 PFK	35.18	2.125e4					1.8	NO		bb		0.000
34	FUNCTION3 PFK	34.90	8.091e4					3.7	YES		db		0.000
35	FUNCTION3 PFK	34.81	6.423e4					3.6	YES		dd		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**  
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**ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk**

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
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**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.09	1.914e4					2.8	NO		bd		
2	FUNCTION5 PFK	43.73	2.053e3					0.7	NO		bb		
3	FUNCTION5 PFK	43.59	8.786e3					2.2	NO		bb		
4	FUNCTION5 PFK	43.48	2.084e3					0.5	NO		bb		
5	FUNCTION5 PFK	43.41	3.185e3					0.9	NO		bb		
6	FUNCTION5 PFK	43.32	2.281e3					0.8	NO		bb		
7	FUNCTION5 PFK	43.13	8.001e3					1.4	NO		bb		
8	FUNCTION5 PFK	43.02	3.983e3					0.8	NO		bb		
9	FUNCTION5 PFK	42.83	1.890e3					0.5	NO		bb		
10	FUNCTION5 PFK	42.68	4.386e3					1.0	NO		bb		
11	FUNCTION5 PFK	42.62	7.508e2					0.5	NO		bb		
12	FUNCTION5 PFK	42.59	5.561e3					1.4	NO		db		
13	FUNCTION5 PFK	42.55	9.317e3					1.1	NO		bd		
14	FUNCTION5 PFK	42.49	2.309e3					1.0	NO		bb		
15	FUNCTION5 PFK	42.39	5.288e3					1.3	NO		bb		
16	FUNCTION5 PFK	42.35	3.153e3					0.8	NO		bb		
17	FUNCTION5 PFK	42.23	2.262e4					1.2	NO		db		
18	FUNCTION5 PFK	44.86	3.904e3					1.0	NO		bb		
19	FUNCTION5 PFK	44.79	1.432e4					1.6	NO		db		
20	FUNCTION5 PFK	44.74	8.840e3					1.3	NO		bd		
21	FUNCTION5 PFK	44.65	2.402e3					0.8	NO		bb		
22	FUNCTION5 PFK	44.60	7.790e3					1.6	NO		db		
23	FUNCTION5 PFK	44.56	4.557e3					1.1	NO		bd		
24	FUNCTION5 PFK	44.45	5.587e3					1.1	NO		bb		
25	FUNCTION5 PFK	44.35	2.197e3					0.7	NO		bb		
26	FUNCTION5 PFK	44.27	6.837e2					0.4	NO		bb		
27	FUNCTION5 PFK	44.14	6.257e3					1.2	NO		bb		
28	FUNCTION5 PFK	44.11	1.334e4					3.0	YES		db		
29	FUNCTION5 PFK	44.05	2.580e4					2.8	NO		bd		
30	FUNCTION5 PFK	44.00	1.294e4					1.4	NO		db		
31	FUNCTION5 PFK	43.92	7.670e3					1.5	NO		dd		
32	FUNCTION5 PFK	43.85	2.295e4					2.3	NO		bd		
33	FUNCTION5 PFK	43.78	6.365e3					1.7	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCDPE	26.71	7.007e1					1.9	NO		bb		0.000
2	FUNCTION1 HXCDPE	24.78	1.283e2					3.4	YES		bb		0.000
3	FUNCTION1 HXCDPE	24.60	1.226e2					3.0	YES		bb		0.000
4	FUNCTION1 HXCDPE	22.30	8.949e1					2.2	NO		bb		0.000
5	FUNCTION1 HXCDPE	21.33	7.764e1					2.2	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCDPE	24.60	9.950e1					2.3	NO		db		0.000
2	FUNCTION1 HPCDPE	24.53	1.184e2					2.3	NO		bd		0.000
3	FUNCTION1 HPCDPE	24.31	1.077e2					2.6	NO		bb		0.000
4	FUNCTION1 HPCDPE	24.17	7.148e1					1.1	NO		bb		0.000
5	FUNCTION1 HPCDPE	23.79	1.204e2					2.7	NO		bb		0.000
6	FUNCTION1 HPCDPE	23.43	1.670e2					4.3	YES		bb		0.000
7	FUNCTION1 HPCDPE	22.39	1.507e2					3.2	YES		bb		0.000
8	FUNCTION1 HPCDPE	21.90	9.486e1					3.1	YES		bb		0.000
9	FUNCTION1 HPCDPE	21.31	1.257e2					1.2	NO		bb		0.000
10	FUNCTION1 HPCDPE	26.50	2.603e2					3.1	YES		bb		0.000
11	FUNCTION1 HPCDPE	26.15	1.066e2					1.8	NO		bb		0.000
12	FUNCTION1 HPCDPE	25.46	1.317e2					1.6	NO		bb		0.000
13	FUNCTION1 HPCDPE	25.26	8.038e1					2.3	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	30.89	8.306e1					3.9	YES		bb		0.000
2	FUNCTION2 HPCDPE	30.19	5.046e2					12.7	YES		bb		0.000
3	FUNCTION2 HPCDPE	29.76	8.059e1					2.1	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
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**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.58	4.031e2					6.0	YES		bb		0.000
2	FUNCTION3 OCDPE	35.08	1.113e2					3.5	YES		bb		0.000
3	FUNCTION3 OCDPE	33.00	1.330e2					3.0	YES		bb		0.000
4	FUNCTION3 OCDPE	32.71	7.149e1					2.1	NO		bb		0.000
5	FUNCTION3 OCDPE	32.07	1.296e2					2.8	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.03	7.034e1					2.0	NO		bb		0.000

**ETHERS6**

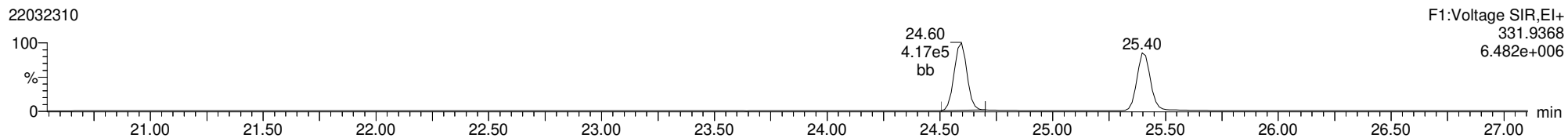
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1													

**Method:** T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14

**ID:** ICVCH, **Name:** 22032310, **Date:** 23-Mar-2022, **Time:** 16:46:49, **Conditions:** AUTOSPEC01, **User:** pk

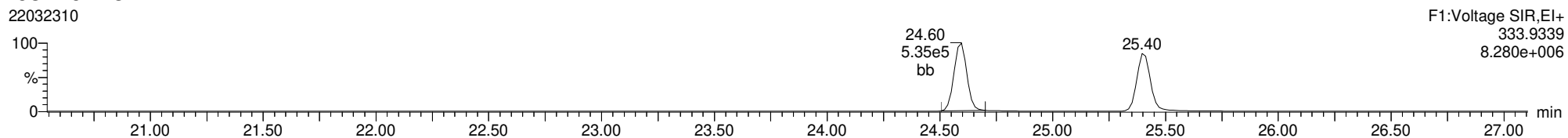
**13C-1234-TCDD**

22032310



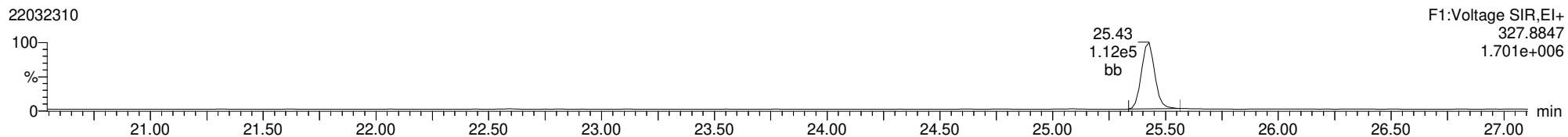
**13C-1234-TCDD**

22032310



**37CL-2378-TCDD**

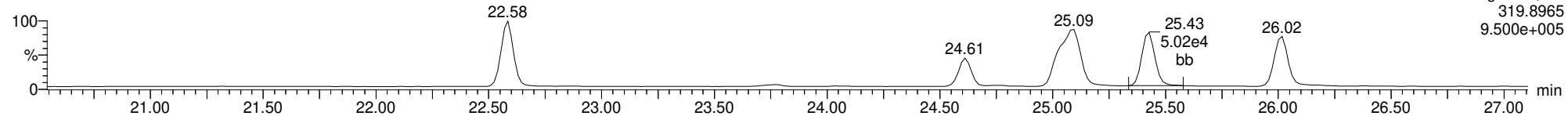
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

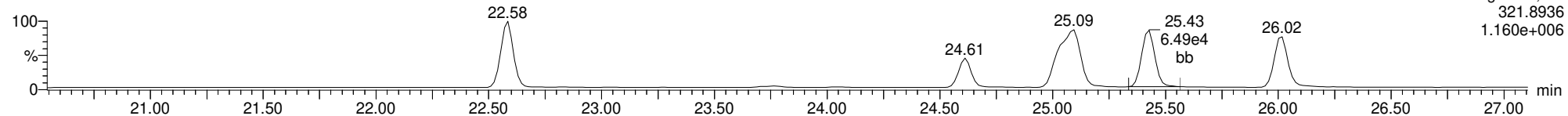
22032310



F1:Voltage SIR,El+  
319.8965  
9.500e+005

**2378-TCDD**

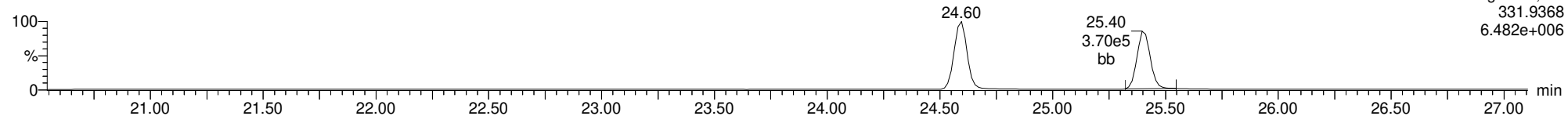
22032310



F1:Voltage SIR,El+  
321.8936  
1.160e+006

**13C-2378-TCDD**

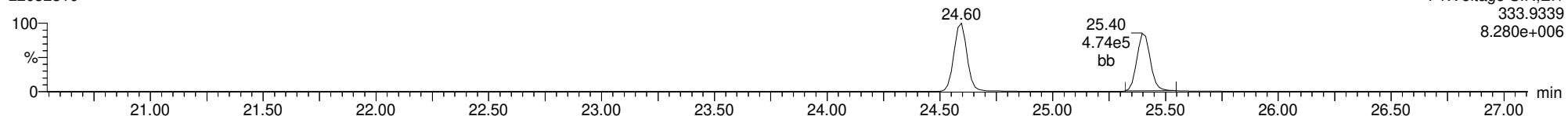
22032310



F1:Voltage SIR,El+  
331.9368  
6.482e+006

**13C-2378-TCDD**

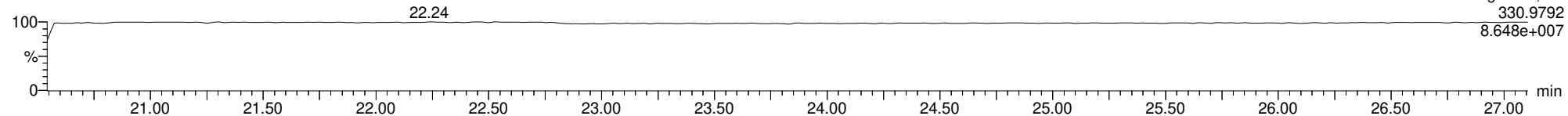
22032310



F1:Voltage SIR,El+  
333.9339  
8.280e+006

**FUNCTION1 PFK**

22032310

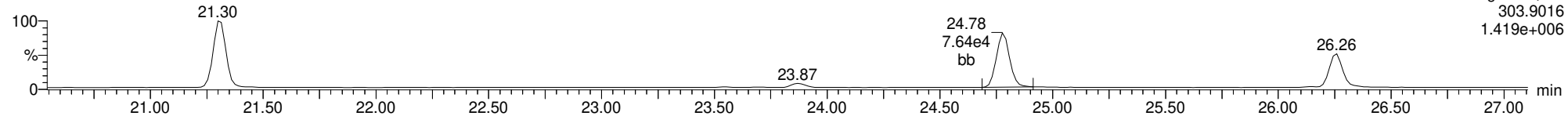


F1:Voltage SIR,El+  
330.9792  
8.648e+007

**ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk**

**2378-TCDF**

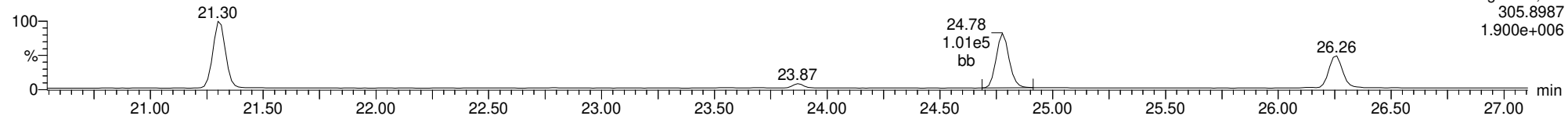
22032310



F1:Voltage SIR,El+  
303.9016  
1.419e+006

**2378-TCDF**

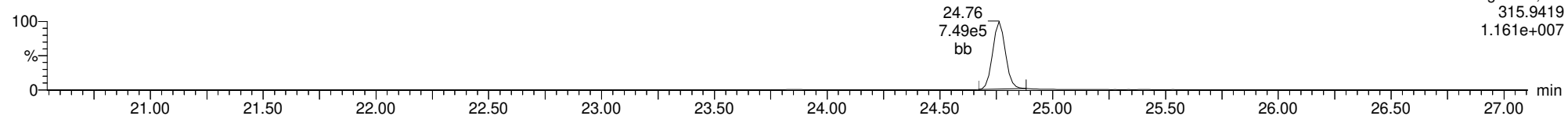
22032310



F1:Voltage SIR,El+  
305.8987  
1.900e+006

**13C-2378-TCDF**

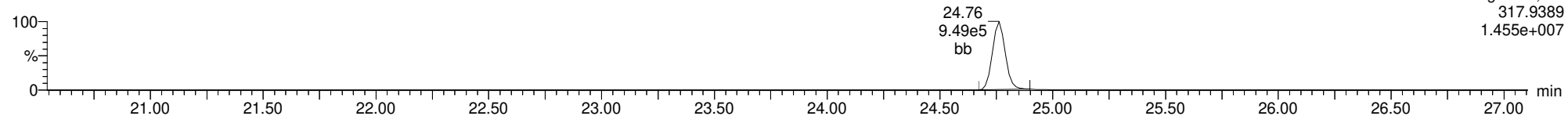
22032310



F1:Voltage SIR,El+  
315.9419  
1.161e+007

**13C-2378-TCDF**

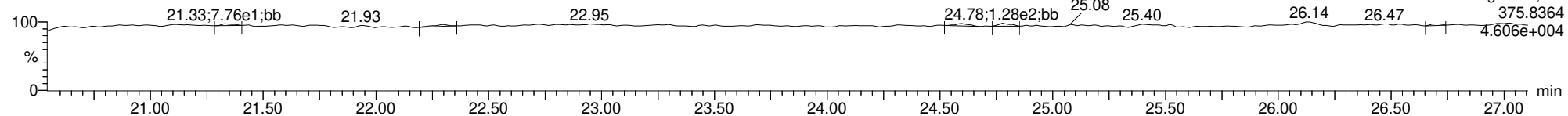
22032310



F1:Voltage SIR,El+  
317.9389  
1.455e+007

**FUNCTION1 HXCDPE**

22032310

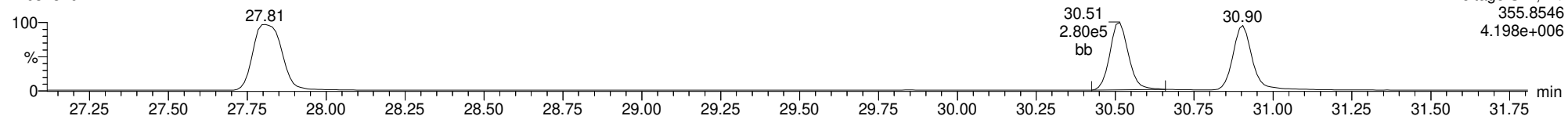


F1:Voltage SIR,El+  
375.8364  
4.606e+004

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**12378-PeCDD**

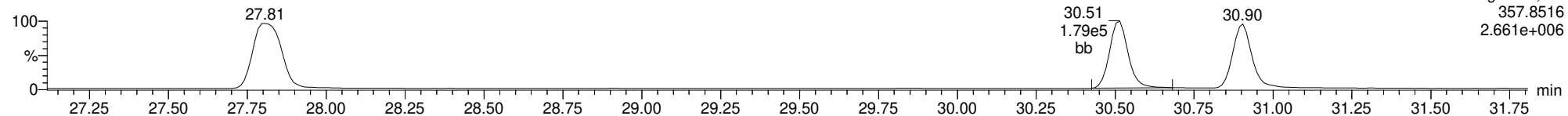
22032310



F2:Voltage SIR,El+  
355.8546  
4.198e+006

**12378-PeCDD**

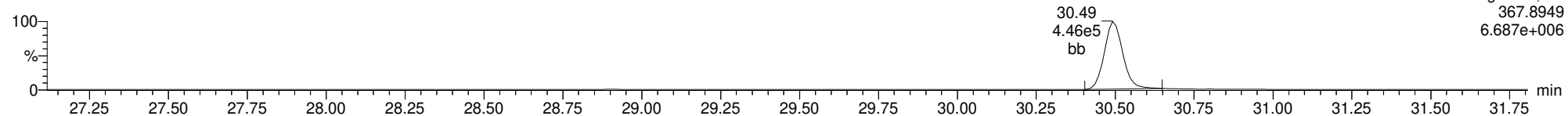
22032310



F2:Voltage SIR,El+  
357.8516  
2.661e+006

**13C-12378-PeCDD**

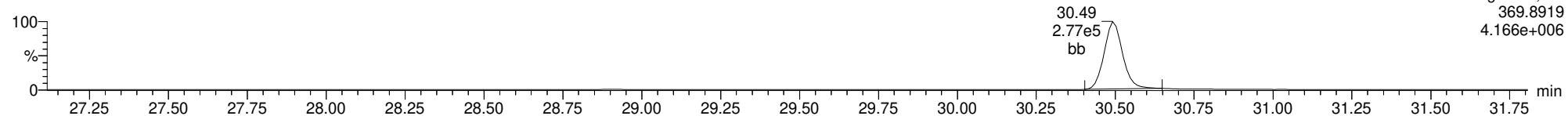
22032310



F2:Voltage SIR,El+  
367.8949  
6.687e+006

**13C-12378-PeCDD**

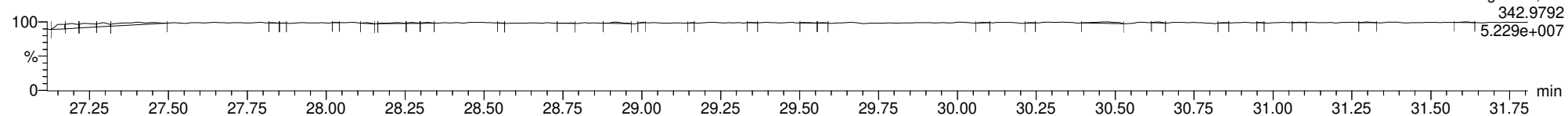
22032310



F2:Voltage SIR,El+  
369.8919  
4.166e+006

**FUNCTION2 PFK**

22032310



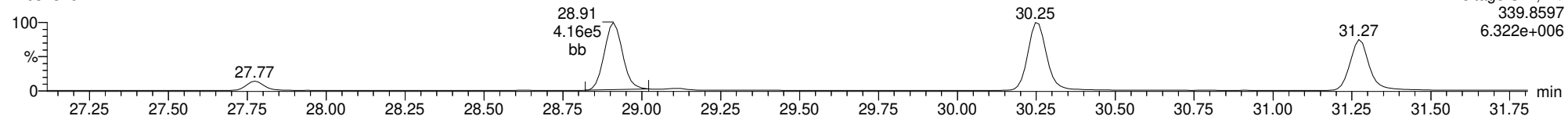
F2:Voltage SIR,El+  
342.9792  
5.229e+007



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

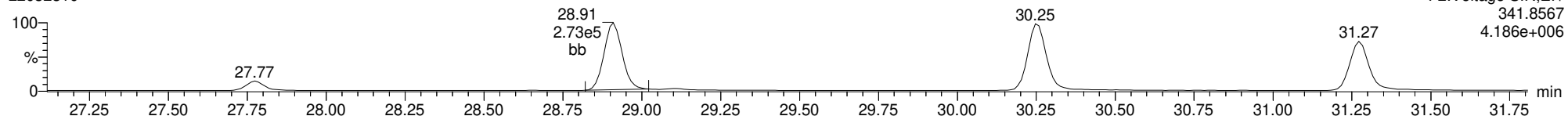
12378-PeCDF

22032310



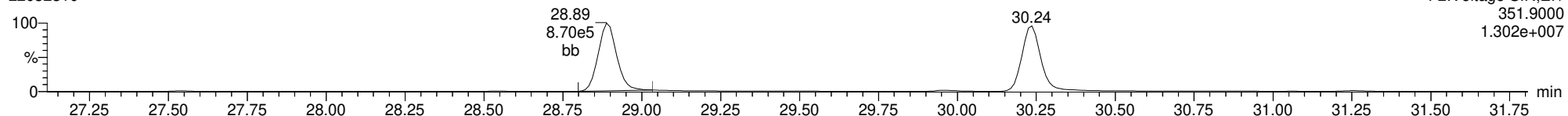
12378-PeCDF

22032310



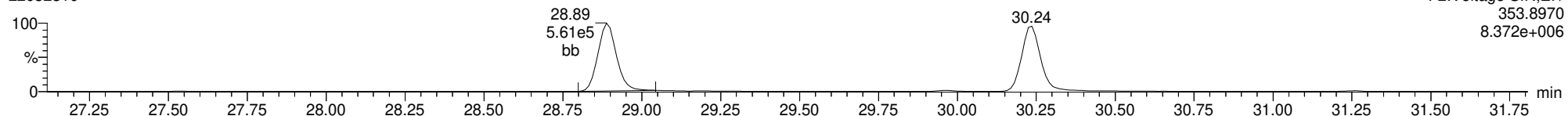
13C-12378-PeCDF

22032310



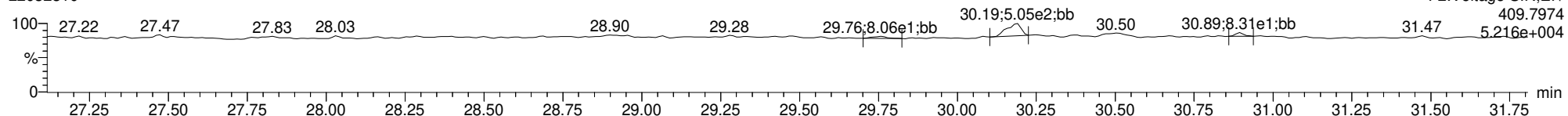
13C-12378-PeCDF

22032310



FUNCTION2 HPCDPE

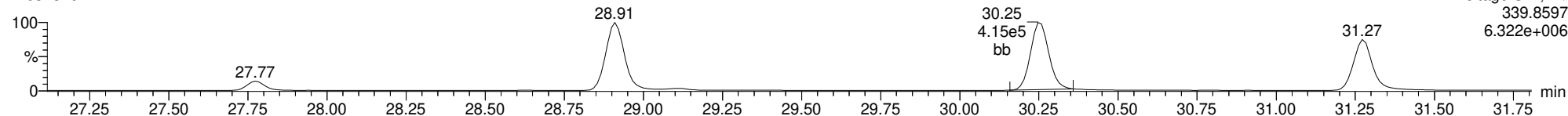
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

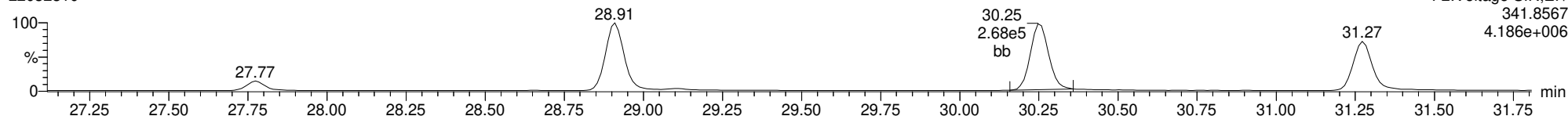
**23478-PeCDF**

22032310



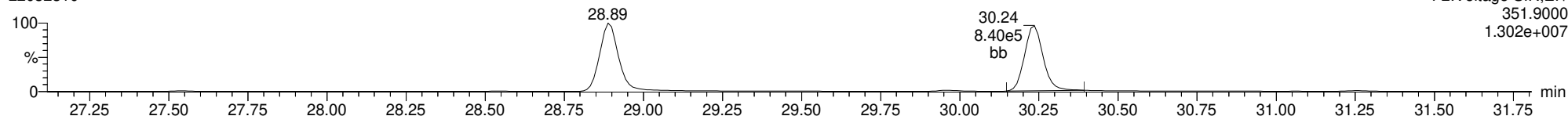
**23478-PeCDF**

22032310



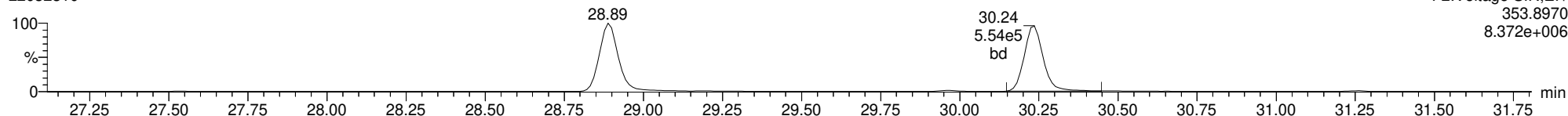
**13C-23478-PeCDF**

22032310



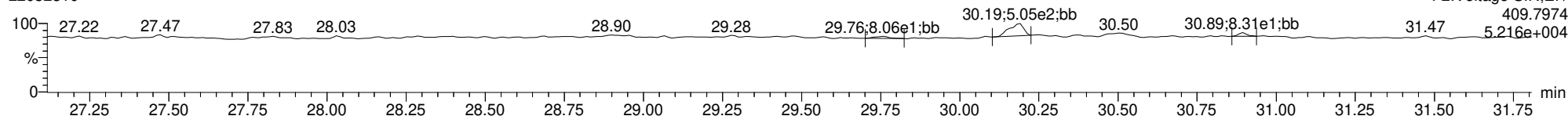
**13C-23478-PeCDF**

22032310



**FUNCTION2 HPCDPE**

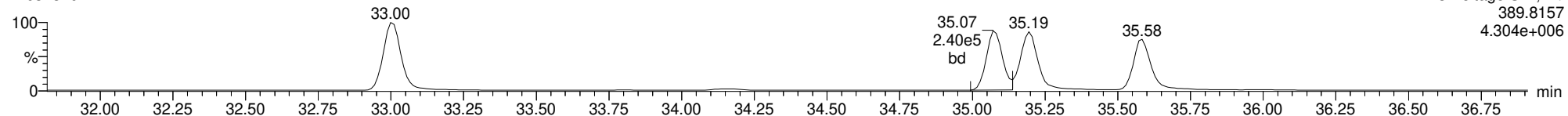
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

**123478-HxCDD**

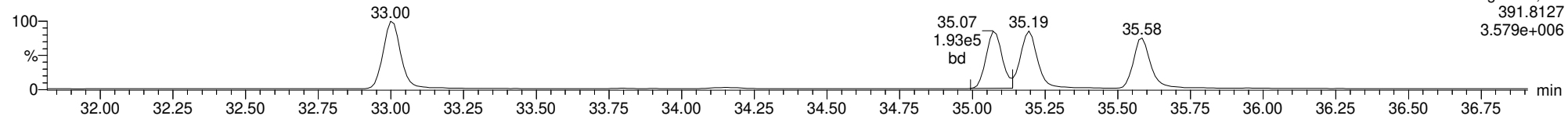
22032310



F3:Voltage SIR,El+  
389.8157  
4.304e+006

**123478-HxCDD**

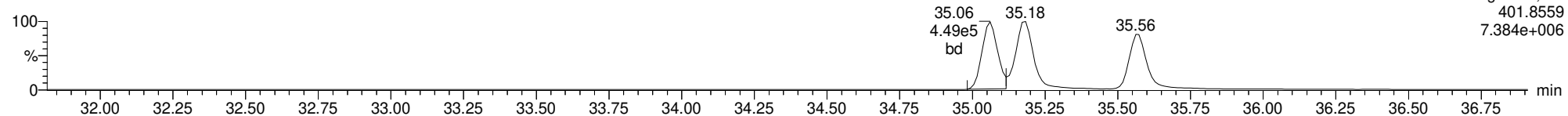
22032310



F3:Voltage SIR,El+  
391.8127  
3.579e+006

**13C-123478-HxCDD**

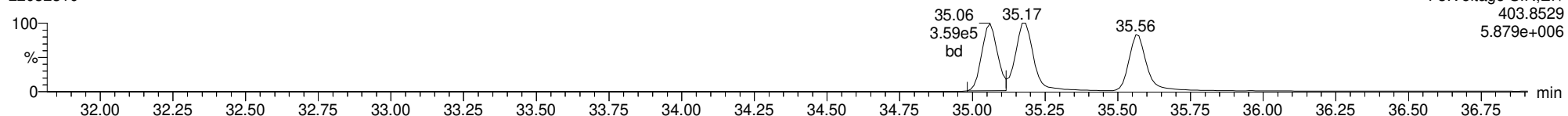
22032310



F3:Voltage SIR,El+  
401.8559  
7.384e+006

**13C-123478-HxCDD**

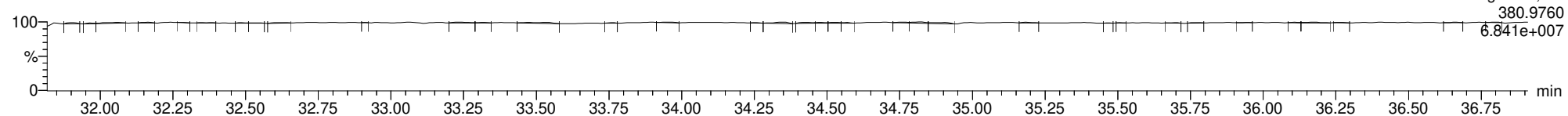
22032310



F3:Voltage SIR,El+  
403.8529  
5.879e+006

**FUNCTION3 PFK**

22032310

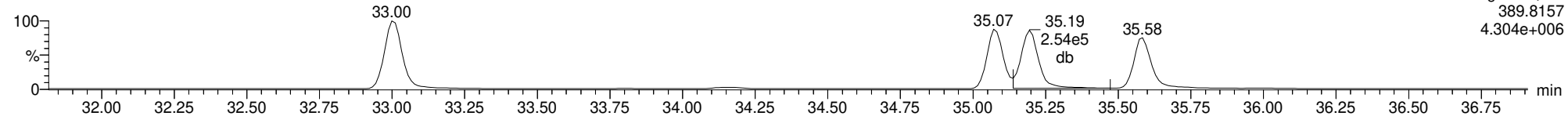


F3:Voltage SIR,El+  
380.9760  
6.841e+007

ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

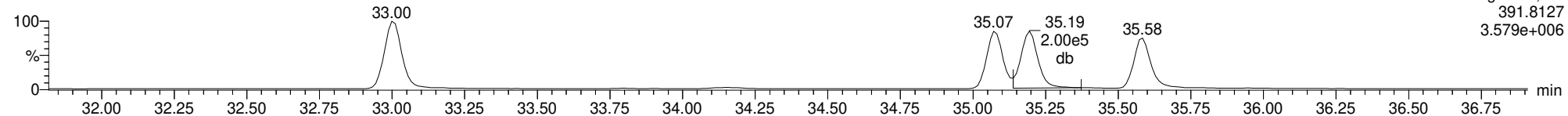
22032310



F3:Voltage SIR,El+  
389.8157  
4.304e+006

**123678-HxCDD**

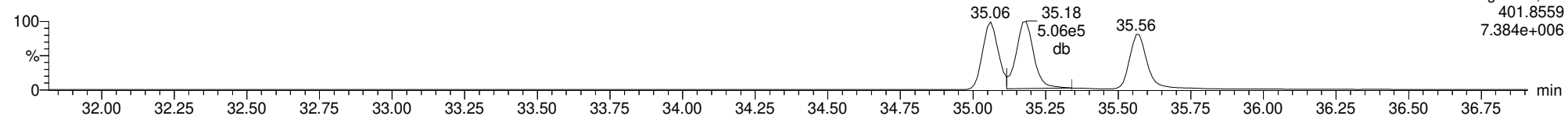
22032310



F3:Voltage SIR,El+  
391.8127  
3.579e+006

**13C-123678-HxCDD**

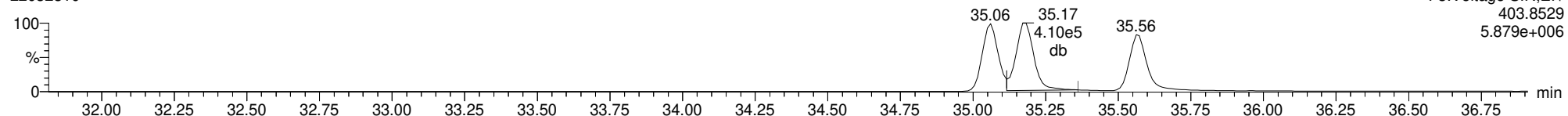
22032310



F3:Voltage SIR,El+  
401.8559  
7.384e+006

**13C-123678-HxCDD**

22032310

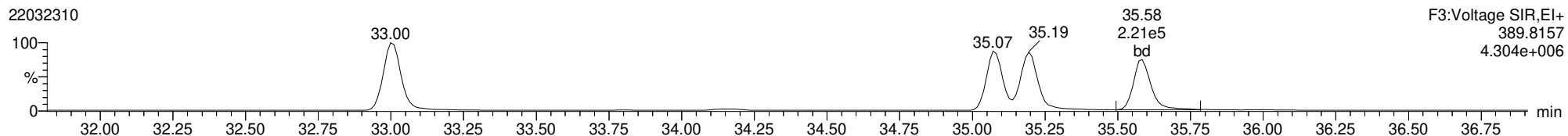


F3:Voltage SIR,El+  
403.8529  
5.879e+006

ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

**123789-HxCDD**

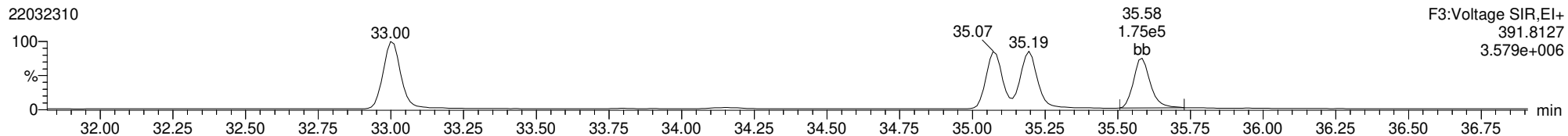
22032310



F3:Voltage SIR,El+  
389.8157  
4.304e+006

**123789-HxCDD**

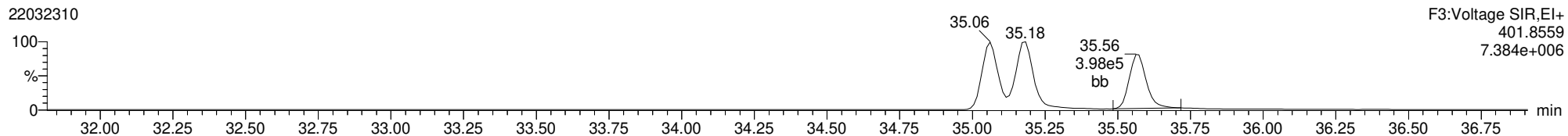
22032310



F3:Voltage SIR,El+  
391.8127  
3.579e+006

**13C-123789-HxCDD**

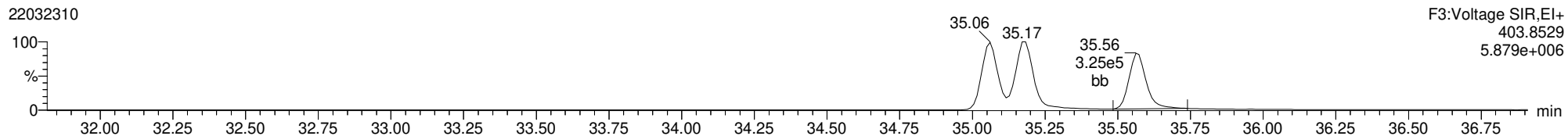
22032310



F3:Voltage SIR,El+  
401.8559  
7.384e+006

**13C-123789-HxCDD**

22032310

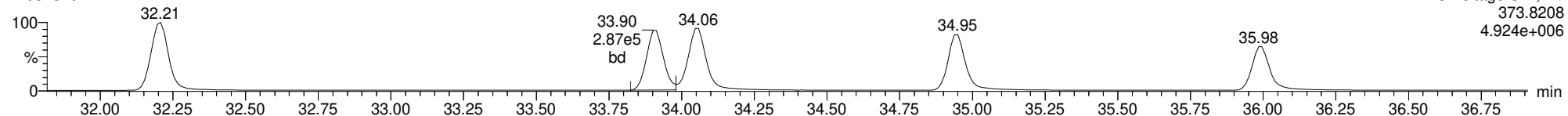


F3:Voltage SIR,El+  
403.8529  
5.879e+006

ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

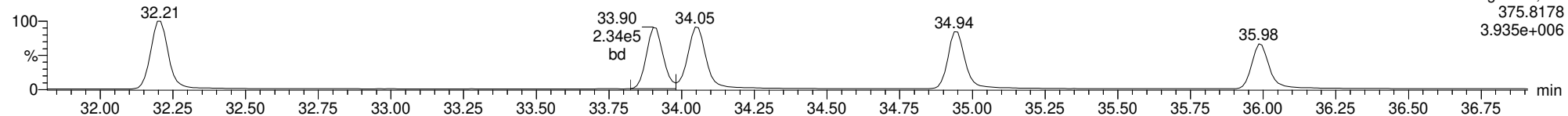
123478-HxCDF

22032310



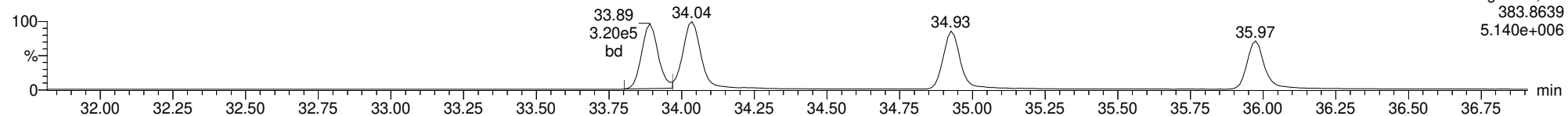
123478-HxCDF

22032310



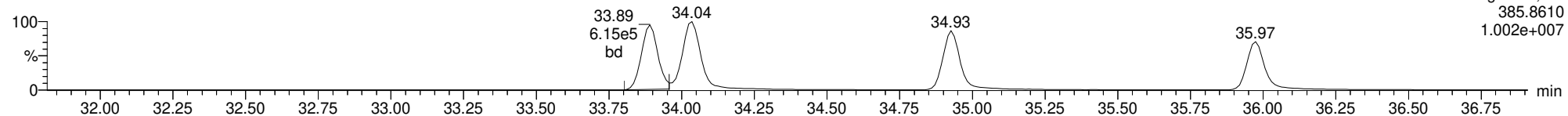
13C-123478-HxCDF

22032310



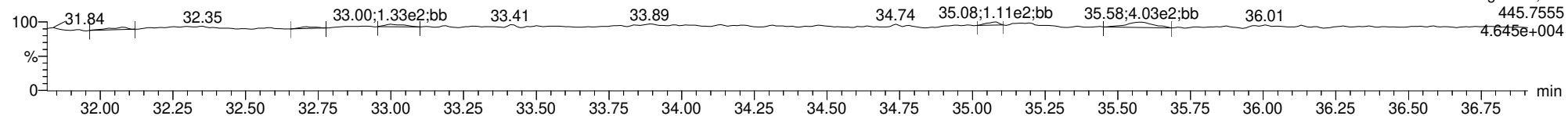
13C-123478-HxCDF

22032310



FUNCTION3 OCDPE

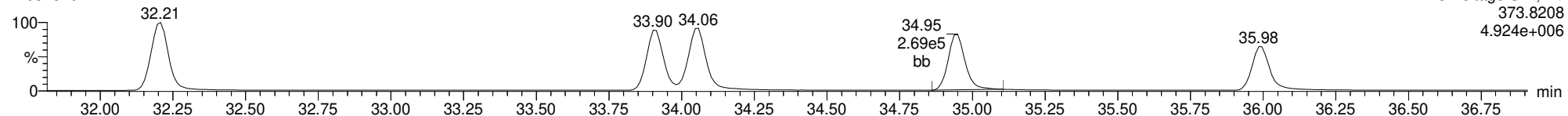
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

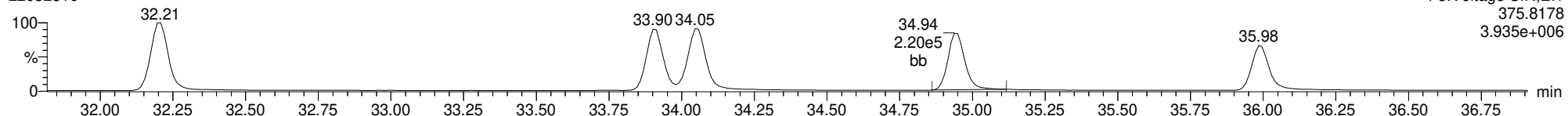
234678-HxCDF

22032310



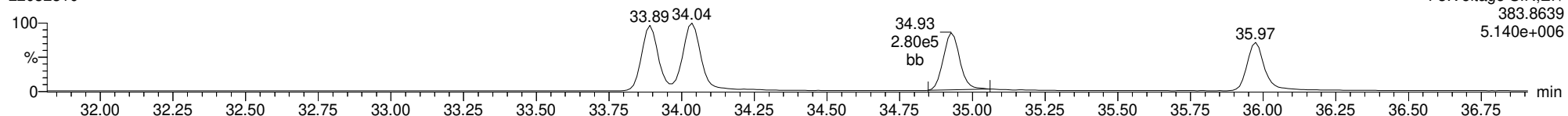
234678-HxCDF

22032310



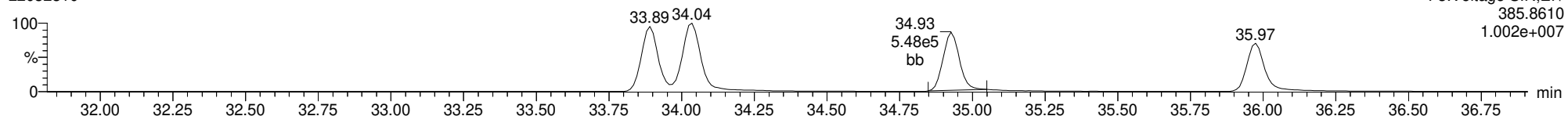
13C-234678-HxCDF

22032310



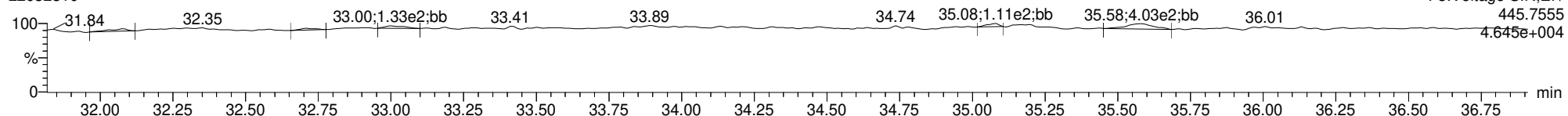
13C-234678-HxCDF

22032310



FUNCTION3 OCDPE

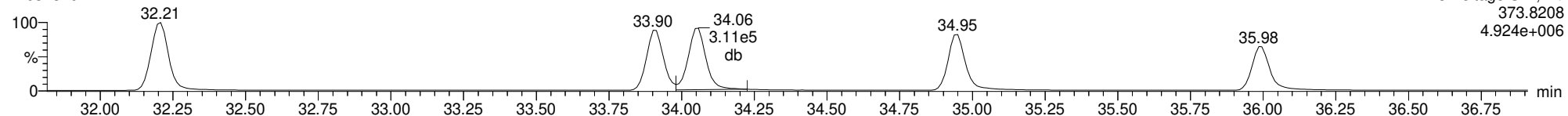
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

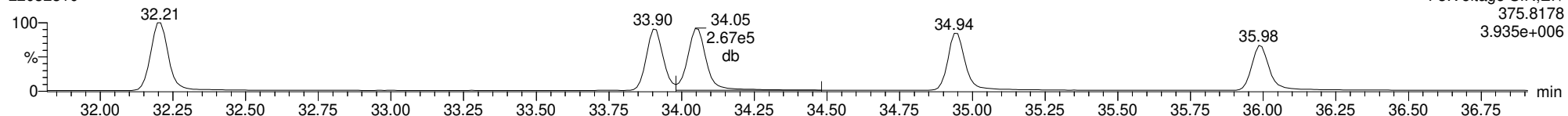
123678-HxCDF

22032310



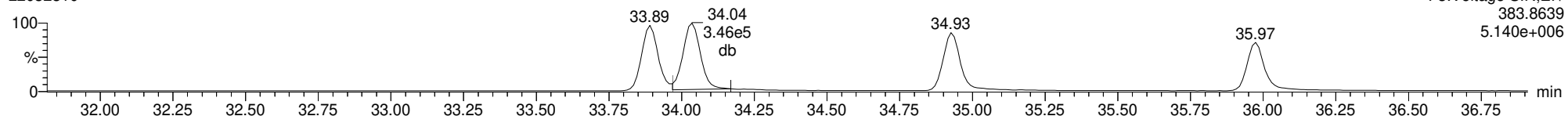
123678-HxCDF

22032310



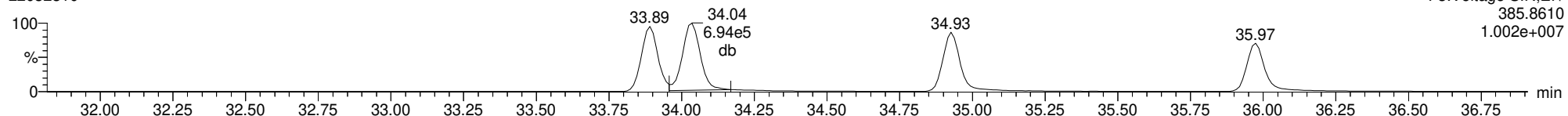
13C-123678-HxCDF

22032310



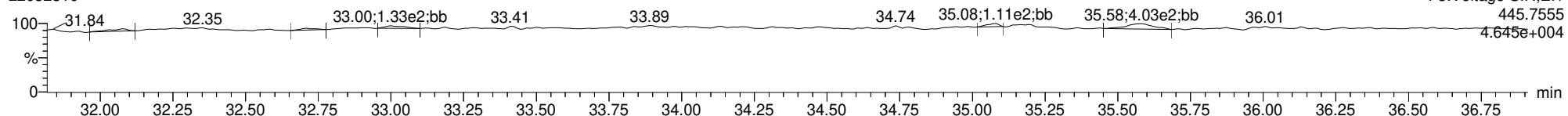
13C-123678-HxCDF

22032310



FUNCTION3 OCDPE

22032310

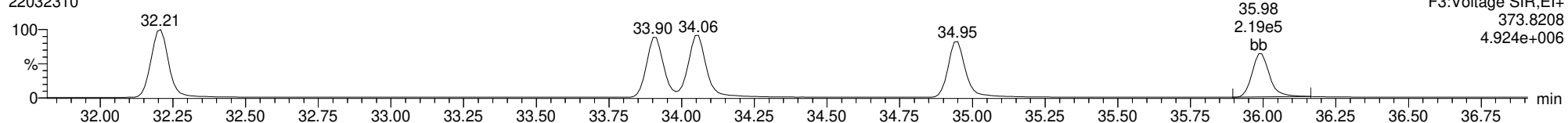




ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

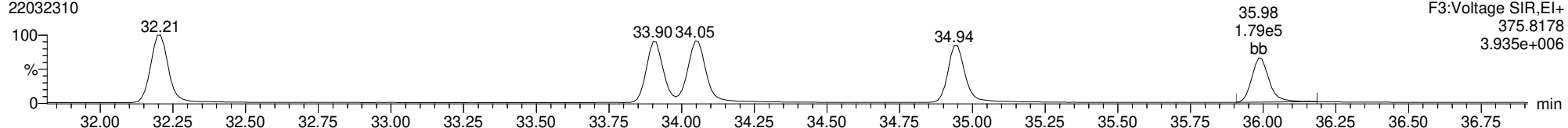
123789-HxCDF

22032310



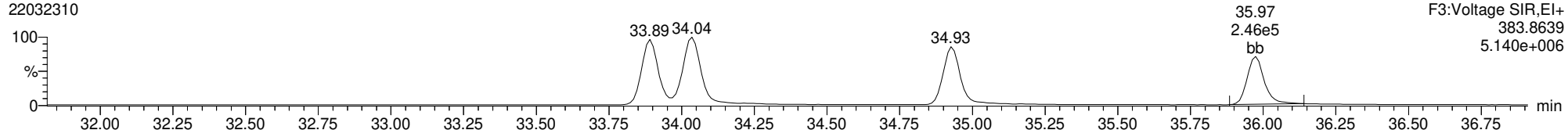
123789-HxCDF

22032310



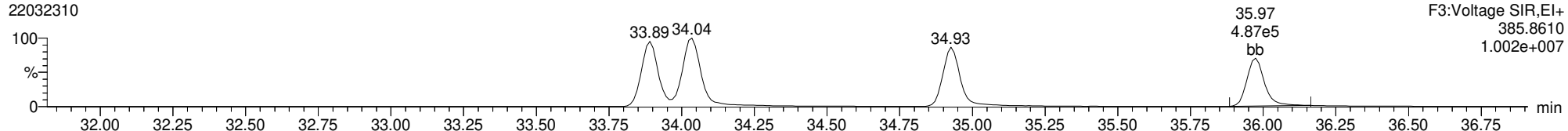
13C-123789-HxCDF

22032310



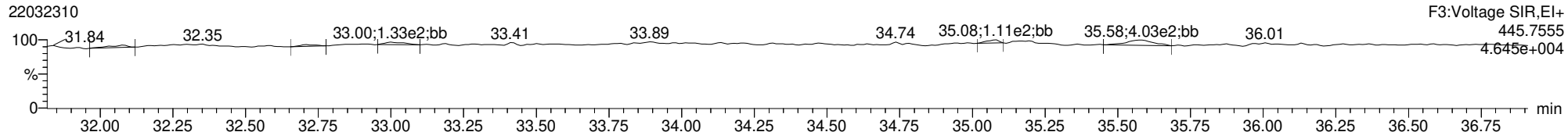
13C-123789-HxCDF

22032310



FUNCTION3 OCDPE

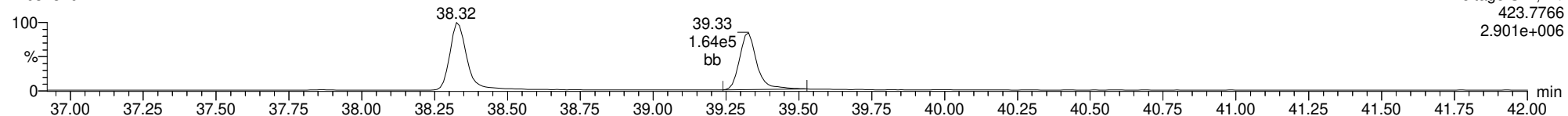
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

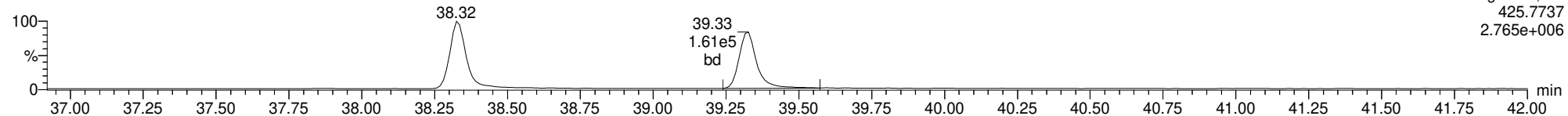
1234678-HpCDD

22032310



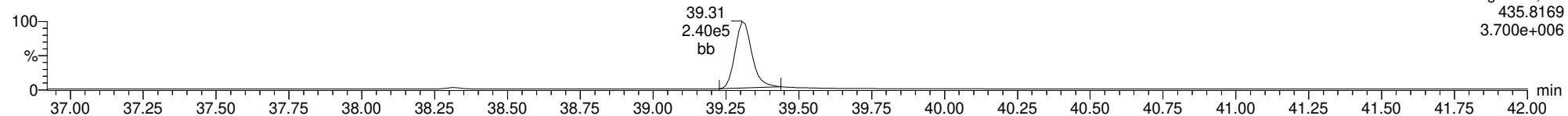
1234678-HpCDD

22032310



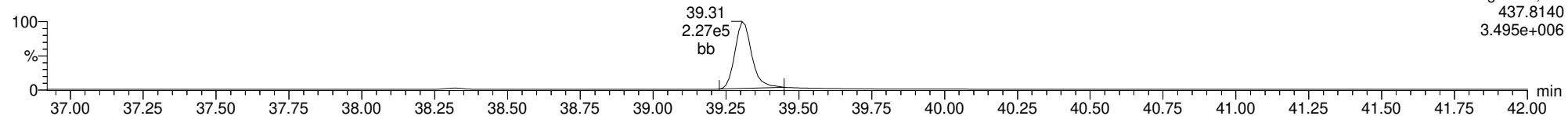
13C-1234678-HpCDD

22032310



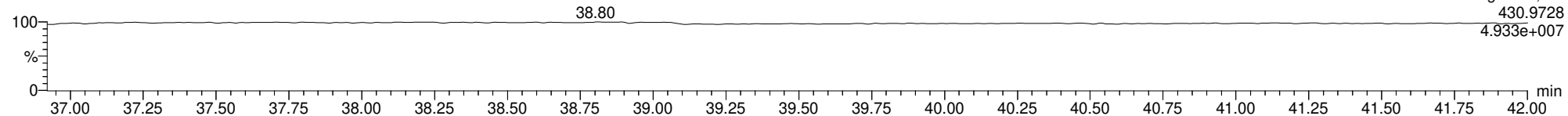
13C-1234678-HpCDD

22032310



FUNCTION4 PFK

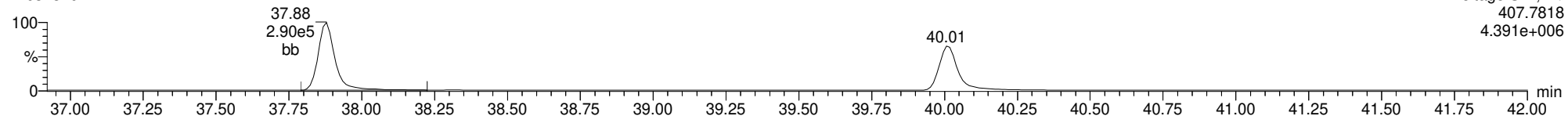
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

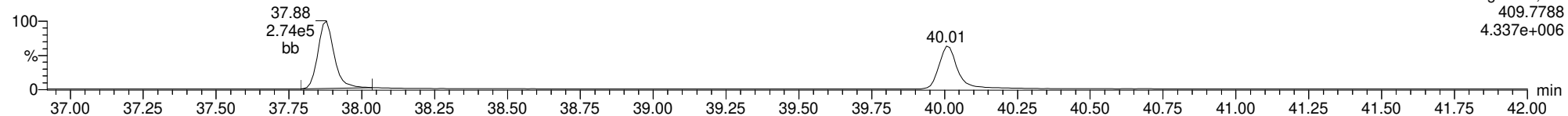
22032310



F4:Voltage SIR,El+  
407.7818  
4.391e+006

1234678-HpCDF

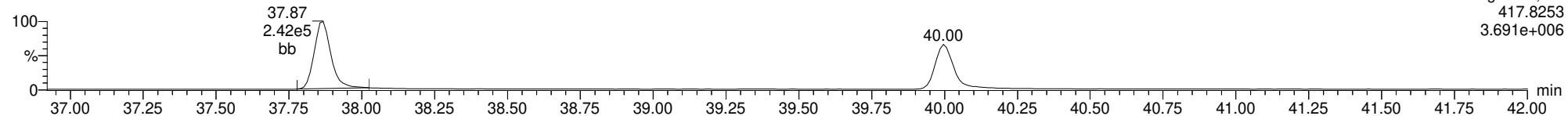
22032310



F4:Voltage SIR,El+  
409.7788  
4.337e+006

13C-1234678-HpCDF

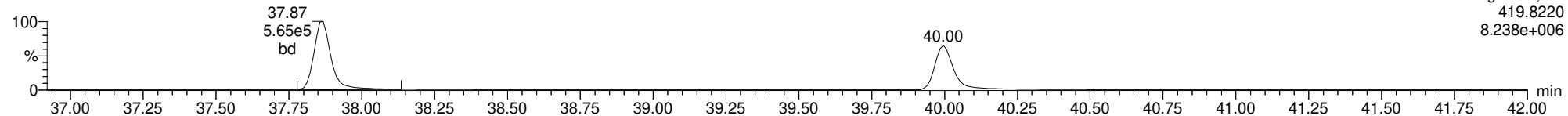
22032310



F4:Voltage SIR,El+  
417.8253  
3.691e+006

13C-1234678-HpCDF

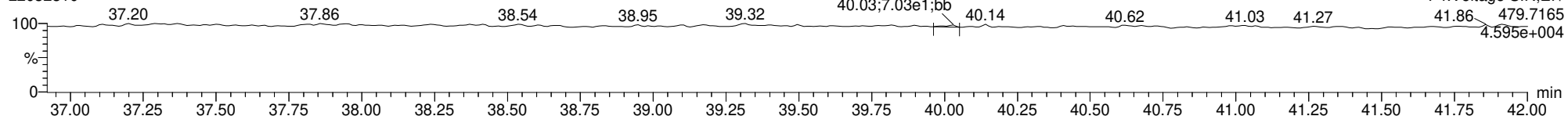
22032310



F4:Voltage SIR,El+  
419.8220  
8.238e+006

FUNCTION4 NCDPE

22032310

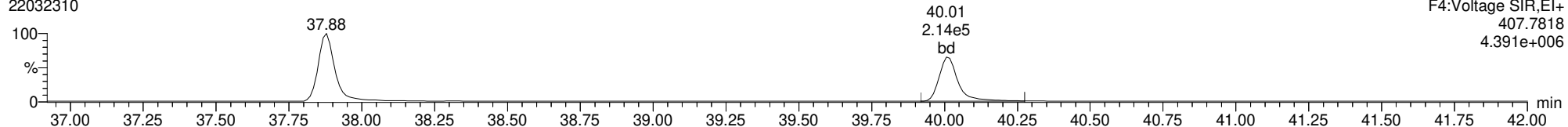


F4:Voltage SIR,El+  
418.6 479.7165  
4.595e+004

ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

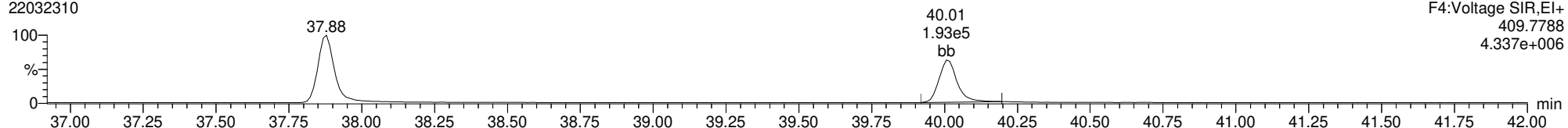
1234789-HpCDF

22032310



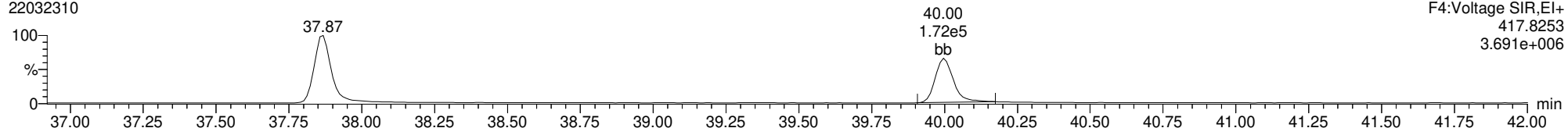
1234789-HpCDF

22032310



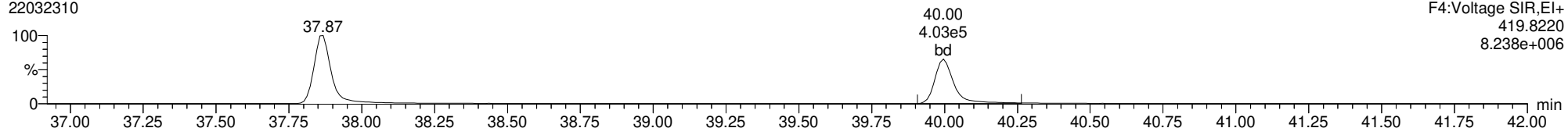
13C-1234789-HpCDF

22032310



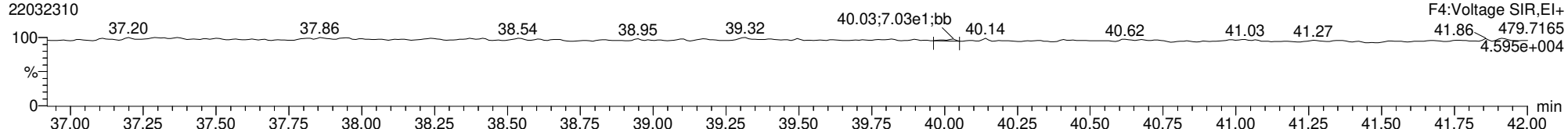
13C-1234789-HpCDF

22032310



FUNCTION4 NCDPE

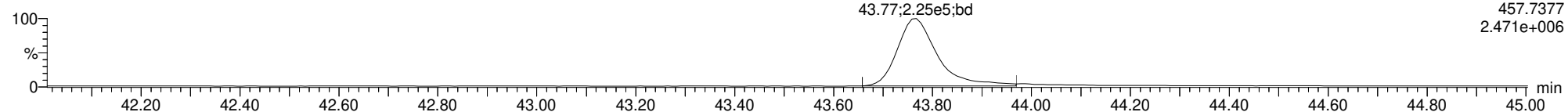
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

**OCDD**

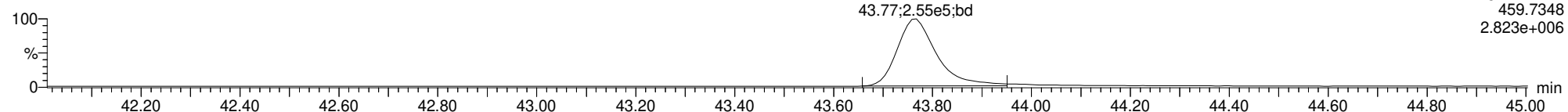
22032310



F5:Voltage SIR,El+  
457.7377  
2.471e+006

**OCDD**

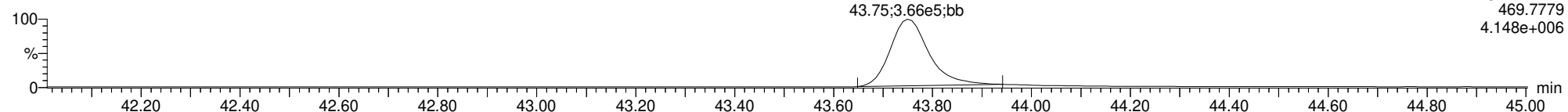
22032310



F5:Voltage SIR,El+  
459.7348  
2.823e+006

**13C-OCDD**

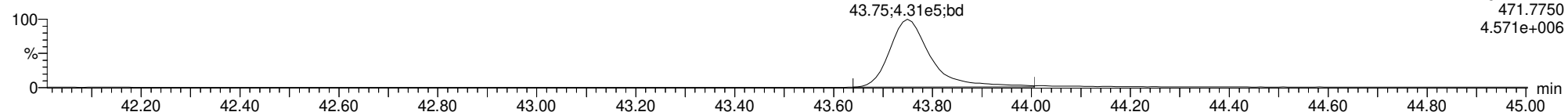
22032310



F5:Voltage SIR,El+  
469.7779  
4.148e+006

**13C-OCDD**

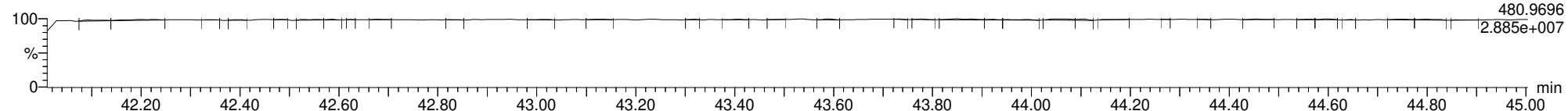
22032310



F5:Voltage SIR,El+  
471.7750  
4.571e+006

**FUNCTION5 PFK**

22032310

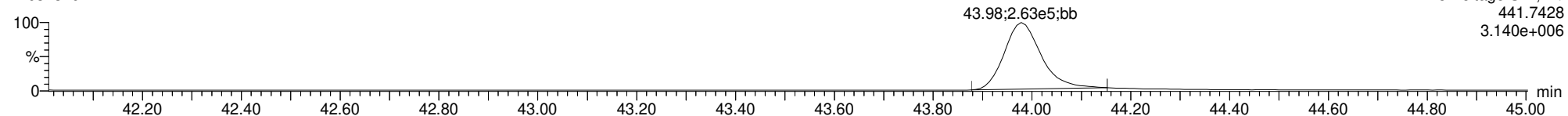


F5:Voltage SIR,El+  
480.9696  
2.885e+007

**ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk**

**OCDF**

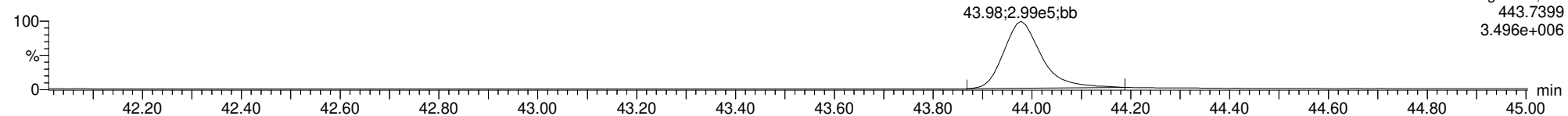
22032310



F5:Voltage SIR,El+  
441.7428  
3.140e+006

**OCDF**

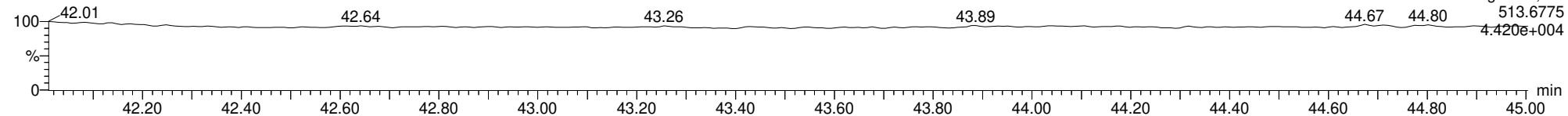
22032310



F5:Voltage SIR,El+  
443.7399  
3.496e+006

**FUNCTION5 DCDPE**

22032310

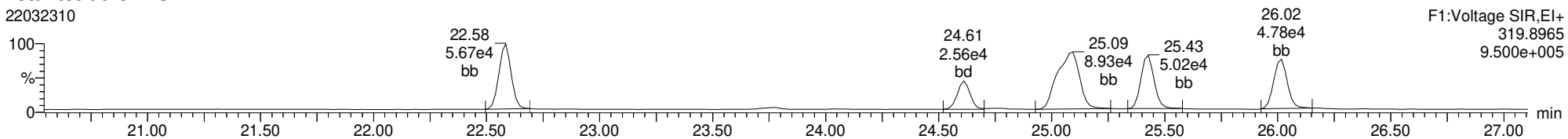


F5:Voltage SIR,El+  
513.6775  
4.420e+004

ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

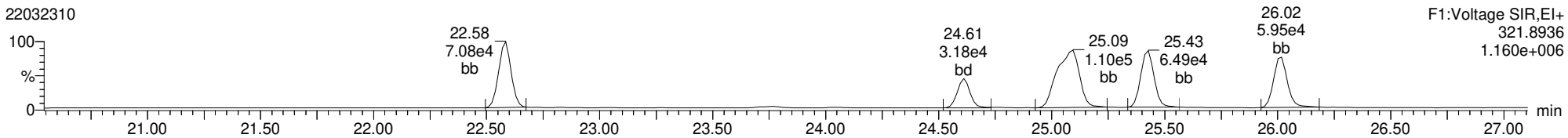
**Total-tetradoxins**

22032310



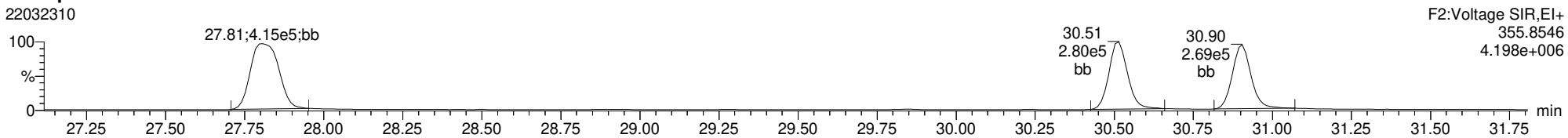
**Total-tetradoxins**

22032310



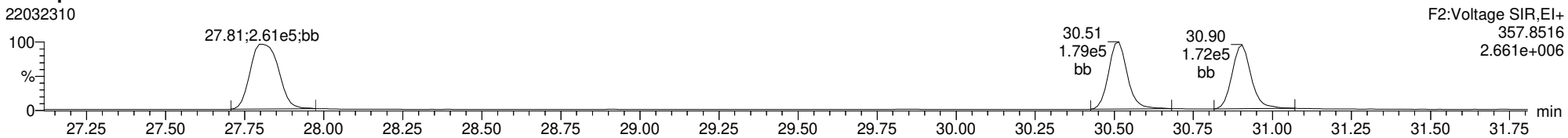
**Total-pentadoxins**

22032310



**Total-pentadoxins**

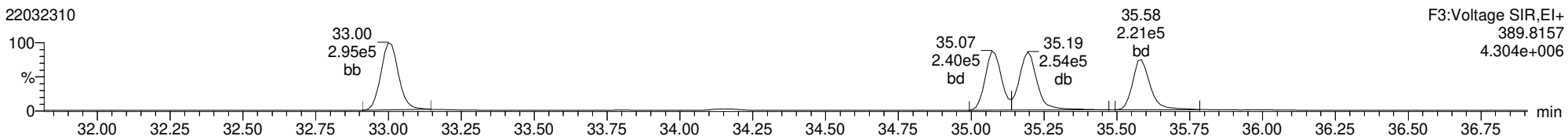
22032310



ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

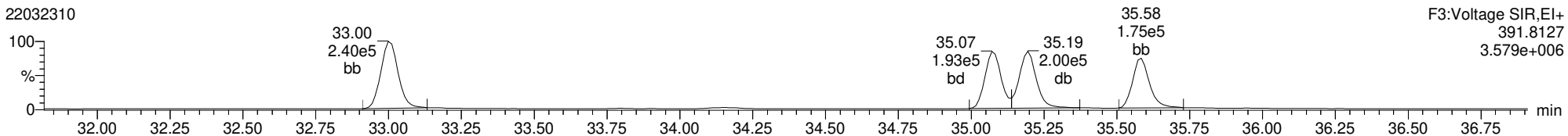
**Total-hexadioxins**

22032310



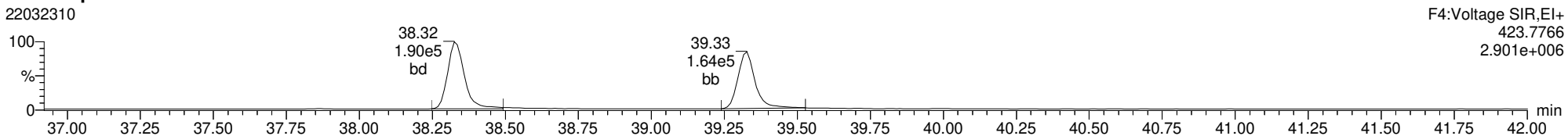
**Total-hexadioxins**

22032310



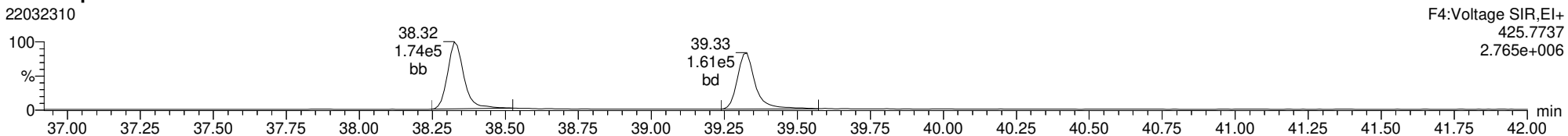
**Total-heptadioxins**

22032310



**Total-heptadioxins**

22032310

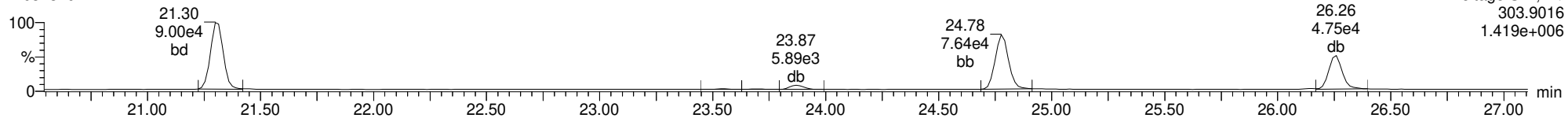




ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

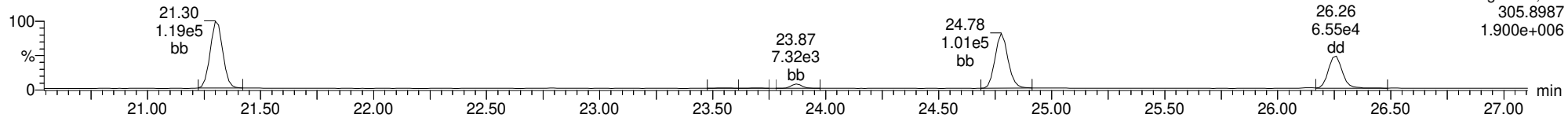
**Total-tetrafurans**

22032310



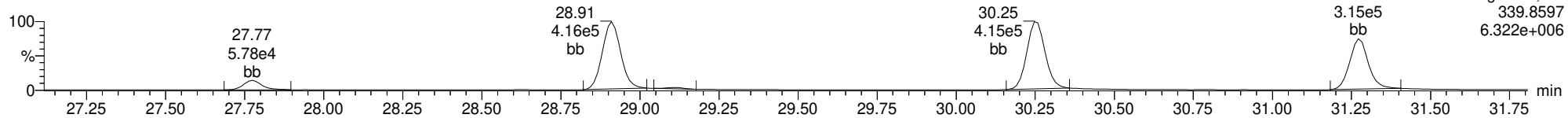
**Total-tetrafurans**

22032310



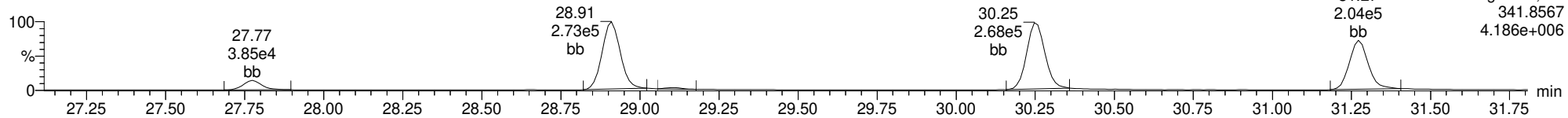
**Total-pentafurans**

22032310



**Total-pentafurans**

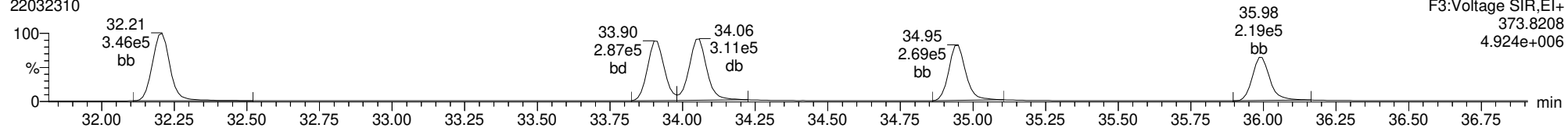
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ID: ICVCH, Name: 22032310, Date: 23-Mar-2022, Time: 16:46:49, Conditions: AUTOSPEC01, User: pk

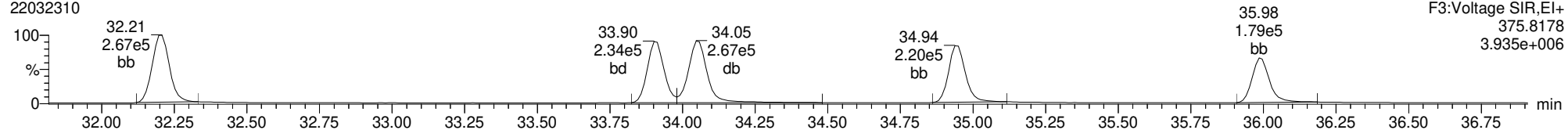
**Total-hexafurans**

22032310



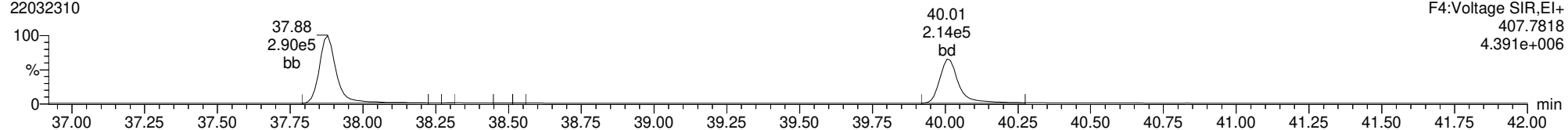
**Total-hexafurans**

22032310



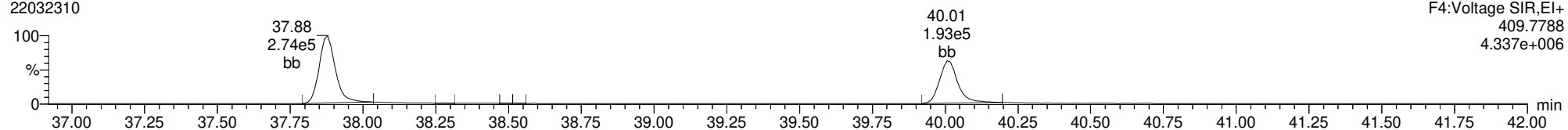
**Total-heptafurans**

22032310



**Total-heptafurans**

22032310



Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
 Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:32:55 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29

Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	24.777	1.001	5.261e4	6.937e4	0.985	0.758	0.770	1825	1550	7.51e5	1.00e6	411.6	647.3	NO	bb	bb	10.176
12378-PeCDF	28.899	1.001	2.759e5	1.787e5	0.906	1.544	1.550	3150	2712	4.07e6	2.67e6	1291.5	984.0	NO	bb	bb	50.324
23478-PeCDF	30.236	1.000	2.753e5	1.835e5	1.008	1.500	1.550	3150	2712	4.11e6	2.75e6	1306.3	1013.0	NO	bb	bb	48.542
123478-HxCDF	33.891	1.000	1.927e5	1.579e5	1.045	1.220	1.240	2625	2493	2.79e6	2.29e6	1062.3	919.0	NO	bd	bd	49.703
234678-HxCDF	34.938	1.001	1.896e5	1.477e5	1.101	1.283	1.240	2625	2493	2.68e6	2.18e6	1020.8	874.1	NO	bd	bb	47.455
123678-HxCDF	34.036	1.000	2.151e5	1.734e5	1.019	1.240	1.240	2625	2493	2.86e6	2.33e6	1089.9	935.1	NO	dd	dd	53.338
123789-HxCDF	35.974	1.000	1.485e5	1.222e5	0.992	1.215	1.240	2625	2493	2.08e6	1.67e6	792.5	670.2	NO	bb	bd	50.857
1234678-HpCDF	37.869	1.000	1.901e5	1.765e5	1.243	1.077	1.050	2368	2219	2.71e6	2.62e6	1144.8	1181.3	NO	bd	bb	50.501
1234789-HpCDF	39.997	1.000	1.445e5	1.418e5	1.192	1.019	1.050	2368	2219	1.88e6	1.79e6	793.4	807.2	NO	bd	bb	55.350
OCDF	43.970	1.005	2.043e5	2.084e5	1.303	0.981	0.890	2081	2259	2.06e6	2.24e6	990.2	992.4	NO	bd	bb	100.555
2378-TCDD	25.412	1.001	3.885e4	4.762e4	1.168	0.816	0.770	1624	1547	5.76e5	7.30e5	354.4	472.0	NO	bb	bb	9.528
12378-PeCDD	30.504	1.001	1.830e5	1.207e5	1.152	1.516	1.550	2479	2007	2.66e6	1.72e6	1074.7	855.1	NO	bb	bb	51.015
123478-HxCDD	35.061	1.000	1.511e5	1.231e5	0.934	1.228	1.240	1940	2106	2.36e6	1.90e6	1214.4	903.9	NO	bd	bd	51.711
123678-HxCDD	35.183	1.000	1.645e5	1.370e5	0.950	1.200	1.240	1940	2106	2.42e6	1.96e6	1247.3	930.5	NO	db	dd	49.437
123789-HxCDD	35.574	1.011	1.467e5	1.235e5	0.873	1.188	1.240	1940	2106	2.15e6	1.79e6	1109.3	847.9	NO	bb	bd	51.186
1234678-HpCDD	39.306	1.000	1.163e5	1.099e5	1.268	1.058	1.050	1870	2698	1.59e6	1.49e6	850.2	552.2	NO	bd	bd	50.549
OCDD	43.750	1.000	1.608e5	1.727e5	1.089	0.931	0.890	3966	2489	1.65e6	1.83e6	416.8	735.4	NO	bd	bb	97.184
13C-2378-TCDF	24.747	1.007	5.427e5	6.746e5	1.751	0.804	0.770	3736	2203	7.88e6	9.93e6	2109.1	4508.4	NO	bb	bb	100.560
13C-12378-PeCDF	28.877	1.175	6.168e5	3.807e5	1.442	1.620	1.550	2269	3501	8.64e6	5.50e6	3808.9	1570.3	NO	bd	bb	100.106
13C-23478-PeCDF	30.225	1.230	5.698e5	3.681e5	1.366	1.548	1.550	2269	3501	8.43e6	5.36e6	3715.9	1530.3	NO	bb	bb	99.358
13C-123478-HxCDF	33.880	0.953	2.271e5	4.477e5	1.095	0.507	0.510	1735	4066	3.34e6	6.60e6	1927.3	1623.1	NO	bd	bd	105.719
13C-123678-HxCDF	34.025	0.957	2.428e5	4.717e5	1.168	0.515	0.510	1735	4066	3.41e6	6.49e6	1965.1	1596.1	NO	db	db	104.947
13C-234678-HxCDF	34.916	0.982	2.124e5	4.333e5	1.023	0.490	0.510	1735	4066	3.20e6	6.25e6	1846.3	1538.4	NO	bb	bd	108.261
13C-123789-HxCDF	35.963	1.011	1.784e5	3.581e5	0.879	0.498	0.510	1735	4066	2.61e6	5.06e6	1503.9	1244.3	NO	bb	bb	104.704
13C-1234678-HpCDF	37.857	1.065	1.717e5	4.122e5	0.925	0.417	0.440	2084	3892	2.53e6	5.81e6	1214.7	1491.8	NO	bb	bd	108.211
13C-1234789-HpCDF	39.986	1.124	1.328e5	3.011e5	0.715	0.441	0.440	2084	3892	1.81e6	4.05e6	869.3	1040.5	NO	bb	bb	104.104
13C-1234-TCDD	24.580	0.000	3.025e5	3.887e5	1.000	0.778	0.770	2344	1447	4.59e6	5.93e6	1958.1	4096.4	NO	bb	bb	100.000
13C-2378-TCDD	25.397	1.033	3.357e5	4.413e5	1.081	0.761	0.770	2344	1447	4.91e6	6.46e6	2096.4	4463.9	NO	bb	bb	103.956
13C-12378-PeCDD	30.482	1.240	3.156e5	2.013e5	0.776	1.568	1.550	1440	1211	4.59e6	2.87e6	3188.9	2373.2	NO	bb	bd	96.337
13C-123478-HxCDD	35.050	0.986	3.159e5	2.517e5	0.975	1.255	1.240	1752	2043	4.99e6	3.94e6	2848.9	1929.3	NO	bd	bd	99.853
13C-123678-HxCDD	35.172	0.989	3.538e5	2.879e5	1.067	1.229	1.240	1752	2043	5.04e6	4.07e6	2877.9	1992.2	NO	db	db	103.185
13C-1234678-HpCDD	39.295	1.105	1.836e5	1.691e5	0.582	1.086	1.050	1641	1382	2.58e6	2.47e6	1572.6	1786.2	NO	bb	bb	104.032
13C-OCDD	43.741	1.230	2.968e5	3.332e5	0.509	0.891	0.890	2031	2089	3.12e6	3.40e6	1538.0	1627.1	NO	bb	bd	212.462
13C-123789-HxCDD	35.562	0.000	3.263e5	2.568e5	1.000	1.270	1.240	1752	2043	4.71e6	3.74e6	2688.8	1831.4	NO	bb	bb	100.000
37CL-2378-TCDD	25.412	1.034	7.442e4		1.120			1899		1.11e6		586.5			bb		9.613

Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
 Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:32:55 Pacific Daylight Time

**ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.299	0.861	6.610e4	9.018e4	1.300	0.733	0.770	1825	1550	1.00e6	1.36e6	549.6	874.1	NO	bb	bb	9.874
1289-TCDF	26.244	1.060	4.913e4	6.428e4	0.931	0.764	0.770	1825	1550	7.19e5	9.35e5	394.0	603.2	NO	bb	db	10.004
13468-PECDF	26.123	0.905	3.774e5	2.530e5	1.308	1.492	1.550	1121	1038	5.42e6	3.61e6	4833.7	3481.2	NO	bb	bb	48.296
12389-PECDF	31.261	1.083	2.561e5	1.679e5	0.860	1.526	1.550	3150	2712	3.68e6	2.38e6	1169.7	878.6	NO	bb	bb	49.397
123468-HXCDF	32.197	0.950	2.124e5	1.716e5	1.156	1.238	1.240	2625	2493	3.04e6	2.45e6	1157.6	981.2	NO	bb	bb	49.205
1368-TCDD	22.569	0.889	4.008e4	4.974e4	1.151	0.806	0.770	1624	1547	6.08e5	7.56e5	374.1	488.9	NO	bb	bb	10.045
1289-TCDD	26.002	1.024	3.445e4	4.183e4	0.950	0.824	0.770	1624	1547	4.87e5	6.02e5	299.9	388.9	NO	bd	bb	10.336
12479-PECDD	27.796	0.912	3.486e5	2.166e5	2.164	1.609	1.550	2479	2007	3.30e6	2.05e6	1331.6	1020.0	NO	bb	bb	50.511
12389-PECDD	30.894	1.014	2.185e5	1.392e5	1.371	1.569	1.550	2479	2007	3.04e6	1.90e6	1227.3	944.4	NO	bd	bd	50.482
124679-HXCDD	32.988	0.941	1.849e5	1.474e5	1.153	1.255	1.240	1940	2106	2.59e6	2.05e6	1336.7	974.1	NO	bd	bb	50.785
1234679-HPCDD	38.314	0.975	1.400e5	1.280e5	1.473	1.094	1.050	1870	2698	1.94e6	1.76e6	1035.1	653.4	NO	bd	bd	51.555
Total-tetrafurans			1.678e5		1.072			1825		2.47e6							30.053
Total-penta1			3.774e5					1121		5.42e6							48.296
Total-pentafurans			8.546e5		0.924			3150		1.26e7							156.940
Total-hexafurans			9.583e5		1.063			2625		1.35e7							250.558
Total-heptafurans			3.346e5		1.218			2368		4.59e6							105.851
Total-Furans			2.897e6		1.090			1825		4.06e7							692.254
Total-tetradiioxins			1.922e5		1.090			1624		2.60e6							50.555
Total-pentadiioxins			7.514e5		1.562			2479		9.03e6							152.287
Total-hexadiioxins			6.471e5		0.978			1940		9.52e6							203.119
Total-heptadiioxins			2.563e5		1.371			1870		3.53e6							102.104
Total-Dioxins			2.008e6		1.207			1624		2.63e7							605.248
Total-TEQ			4.905e6					1624		6.69e7							1297.501
FUNCTION1 PFK			1.527e5					492769		2.07e6							
FUNCTION2 PFK			4.956e5					456301		3.32e6							0.000
FUNCTION3 PFK			5.649e5					372519		1.39e7							0.000
FUNCTION4 PFK			4.254e5					266376		1.24e7							
FUNCTION5 PFK			6.758e4					194436		2.87e6							
FUNCTION1 HXCDPE			1.120e3					613		1.45e4							0.000
FUNCTION1 HPCDPE			7.738e2					730		1.43e4							0.000
FUNCTION2 HPCDPE			3.212e2					775		6.14e3							0.000
FUNCTION3 OCDPE			9.529e2					700		1.50e4							0.000
FUNCTION4 NCDPE			5.453e2					727		1.08e4							0.000
FUNCTION5 DCDPE			0.000e0					657		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
 Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:32:55 Pacific Daylight Time

**Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29**

**Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14**

**ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.24	4.913e4	6.428e4	0.931	0.76	0.77	394.0	YES	NO	bb	db	10.004
2	2378-TCDF	24.78	5.261e4	6.937e4	0.985	0.76	0.77	411.6	YES	NO	bb	bb	10.176
3	1368-TCDF	21.30	6.610e4	9.018e4	1.300	0.73	0.77	549.6	YES	NO	bb	bb	9.874

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.12	3.774e5	2.530e5	1.308	1.49	1.55	4833.7	YES	NO	bb	bb	48.296

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	30.24	2.753e5	1.835e5	1.008	1.50	1.55	1306.3	YES	NO	bb	bb	48.542
2	12378-PeCDF	28.90	2.759e5	1.787e5	0.906	1.54	1.55	1291.5	YES	NO	bb	bb	50.324
3	Total-pentafurans	27.76	4.731e4	3.031e4	0.924	1.56	1.55	225.4	YES	NO	bb	bb	8.677
4	12389-PECDF	31.26	2.561e5	1.679e5	0.860	1.53	1.55	1169.7	YES	NO	bb	bb	49.397

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	35.97	1.485e5	1.222e5	0.992	1.21	1.24	792.5	YES	NO	bb	bd	50.857
2	234678-HxCDF	34.94	1.896e5	1.477e5	1.101	1.28	1.24	1020.8	YES	NO	bd	bb	47.455
3	123678-HxCDF	34.04	2.151e5	1.734e5	1.019	1.24	1.24	1089.9	YES	NO	dd	dd	53.338
4	123478-HxCDF	33.89	1.927e5	1.579e5	1.045	1.22	1.24	1062.3	YES	NO	bd	bd	49.703
5	123468-HXCDF	32.20	2.124e5	1.716e5	1.156	1.24	1.24	1157.6	YES	NO	bb	bb	49.205

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	37.87	1.901e5	1.765e5	1.243	1.08	1.05	1144.8	YES	NO	bd	bb	50.501
2	1234789-HpCDF	40.00	1.445e5	1.418e5	1.192	1.02	1.05	793.4	YES	NO	bd	bb	55.350

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.24	4.913e4	6.428e4	0.931	0.76	0.77	394.0	YES	NO	bb	db	10.004
2	2378-TCDF	24.78	5.261e4	6.937e4	0.985	0.76	0.77	411.6	YES	NO	bb	bb	10.176
3	1368-TCDF	21.30	6.610e4	9.018e4	1.300	0.73	0.77	549.6	YES	NO	bb	bb	9.874
4	23478-PeCDF	30.24	2.753e5	1.835e5	1.008	1.50	1.55	1306.3	YES	NO	bb	bb	48.542
5	12378-PeCDF	28.90	2.759e5	1.787e5	0.906	1.54	1.55	1291.5	YES	NO	bb	bb	50.324
6	Total-pentafurans	27.76	4.731e4	3.031e4	0.924	1.56	1.55	225.4	YES	NO	bb	bb	8.677
7	12389-PECDF	31.26	2.561e5	1.679e5	0.860	1.53	1.55	1169.7	YES	NO	bb	bb	49.397
8	123789-HxCDF	35.97	1.485e5	1.222e5	0.992	1.21	1.24	792.5	YES	NO	bb	bd	50.857
9	234678-HxCDF	34.94	1.896e5	1.477e5	1.101	1.28	1.24	1020.8	YES	NO	bd	bb	47.455
10	123678-HxCDF	34.04	2.151e5	1.734e5	1.019	1.24	1.24	1089.9	YES	NO	dd	dd	53.338
11	123478-HxCDF	33.89	1.927e5	1.579e5	1.045	1.22	1.24	1062.3	YES	NO	bd	bd	49.703
12	123468-HXCDF	32.20	2.124e5	1.716e5	1.156	1.24	1.24	1157.6	YES	NO	bb	bb	49.205
13	1234678-HpCDF	37.87	1.901e5	1.765e5	1.243	1.08	1.05	1144.8	YES	NO	bd	bb	50.501
14	1234789-HpCDF	40.00	1.445e5	1.418e5	1.192	1.02	1.05	793.4	YES	NO	bd	bb	55.350
15	OCDF	43.97	2.043e5	2.084e5	1.303	0.98	0.89	990.2	YES	NO	bd	bb	100.555
16	13468-PECDF	26.12	3.774e5	2.530e5	1.308	1.49	1.55	4833.7	YES	NO	bb	bb	48.296

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	22.57	4.008e4	4.974e4	1.151	0.81	0.77	374.1	YES	NO	bb	bb	10.045
2	1289-TCDD	26.00	3.445e4	4.183e4	0.950	0.82	0.77	299.9	YES	NO	bd	bb	10.336
3	2378-TCDD	25.41	3.885e4	4.762e4	1.168	0.82	0.77	354.4	YES	NO	bb	bb	9.528
4	Total-tetradioxins	25.08	5.902e4	7.288e4	1.090	0.81	0.77	397.4	YES	NO	bb	bb	15.579
5	Total-tetradioxins	24.60	1.975e4	2.314e4	1.090	0.85	0.77	174.3	YES	NO	bd	bb	5.066

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	30.89	2.185e5	1.392e5	1.371	1.57	1.55	1227.3	YES	NO	bd	bd	50.482
2	12378-PeCDD	30.50	1.830e5	1.207e5	1.152	1.52	1.55	1074.7	YES	NO	bb	bb	51.015
3	12479-PECDD	27.80	3.486e5	2.166e5	2.164	1.61	1.55	1331.6	YES	NO	bb	bb	50.511
4	Total-pentadioxins	31.12	1.339e3	9.029e2	1.562	1.48	1.55	10.6	YES	NO	dd	db	0.278

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#### HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDD	35.06	1.511e5	1.231e5	0.934	1.23	1.24	1214.4	YES	NO	bd	bd	51.711
2	124679-HxCDD	32.99	1.849e5	1.474e5	1.153	1.25	1.24	1336.7	YES	NO	bd	bb	50.785
3	123789-HxCDD	35.57	1.467e5	1.235e5	0.873	1.19	1.24	1109.3	YES	NO	bb	bd	51.186
4	123678-HxCDD	35.18	1.645e5	1.370e5	0.950	1.20	1.24	1247.3	YES	NO	db	dd	49.437

#### HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.31	1.163e5	1.099e5	1.268	1.06	1.05	850.2	YES	NO	bd	bd	50.549
2	1234679-HPCDD	38.31	1.400e5	1.280e5	1.473	1.09	1.05	1035.1	YES	NO	bd	bd	51.555

#### Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	22.57	4.008e4	4.974e4	1.151	0.81	0.77	374.1	YES	NO	bb	bb	10.045
2	1289-TCDD	26.00	3.445e4	4.183e4	0.950	0.82	0.77	299.9	YES	NO	bd	bb	10.336
3	2378-TCDD	25.41	3.885e4	4.762e4	1.168	0.82	0.77	354.4	YES	NO	bb	bb	9.528
4	Total-tetradiioxins	25.08	5.902e4	7.288e4	1.090	0.81	0.77	397.4	YES	NO	bb	bb	15.579
5	Total-tetradiioxins	24.60	1.975e4	2.314e4	1.090	0.85	0.77	174.3	YES	NO	bd	bb	5.066
6	12389-PECDD	30.89	2.185e5	1.392e5	1.371	1.57	1.55	1227.3	YES	NO	bd	bd	50.482
7	12378-PeCDD	30.50	1.830e5	1.207e5	1.152	1.52	1.55	1074.7	YES	NO	bb	bb	51.015
8	12479-PECDD	27.80	3.486e5	2.166e5	2.164	1.61	1.55	1331.6	YES	NO	bb	bb	50.511
9	123478-HxCDD	35.06	1.511e5	1.231e5	0.934	1.23	1.24	1214.4	YES	NO	bd	bd	51.711
10	124679-HxCDD	32.99	1.849e5	1.474e5	1.153	1.25	1.24	1336.7	YES	NO	bd	bb	50.785
11	Total-pentadiioxins	31.12	1.339e3	9.029e2	1.562	1.48	1.55	10.6	YES	NO	dd	db	0.278
12	123789-HxCDD	35.57	1.467e5	1.235e5	0.873	1.19	1.24	1109.3	YES	NO	bb	bd	51.186
13	123678-HxCDD	35.18	1.645e5	1.370e5	0.950	1.20	1.24	1247.3	YES	NO	db	dd	49.437
14	1234678-HpCDD	39.31	1.163e5	1.099e5	1.268	1.06	1.05	850.2	YES	NO	bd	bd	50.549
15	1234679-HPCDD	38.31	1.400e5	1.280e5	1.473	1.09	1.05	1035.1	YES	NO	bd	bd	51.555
16	OCDD	43.75	1.608e5	1.727e5	1.089	0.93	0.89	416.8	YES	NO	bd	bb	97.184

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk**

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.24	4.913e4	6.428e4	0.931	0.76	0.77	394.0	YES	NO	bb	db	10.004
2	2378-TCDF	24.78	5.261e4	6.937e4	0.985	0.76	0.77	411.6	YES	NO	bb	bb	10.176
3	1368-TCDF	21.30	6.610e4	9.018e4	1.300	0.73	0.77	549.6	YES	NO	bb	bb	9.874
4	23478-PeCDF	30.24	2.753e5	1.835e5	1.008	1.50	1.55	1306.3	YES	NO	bb	bb	48.542
5	12378-PeCDF	28.90	2.759e5	1.787e5	0.906	1.54	1.55	1291.5	YES	NO	bb	bb	50.324
6	Total-pentafurans	27.76	4.731e4	3.031e4	0.924	1.56	1.55	225.4	YES	NO	bb	bb	8.677
7	12389-PECDF	31.26	2.561e5	1.679e5	0.860	1.53	1.55	1169.7	YES	NO	bb	bb	49.397
8	123789-HxCDF	35.97	1.485e5	1.222e5	0.992	1.21	1.24	792.5	YES	NO	bb	bd	50.857
9	234678-HxCDF	34.94	1.896e5	1.477e5	1.101	1.28	1.24	1020.8	YES	NO	bd	bb	47.455
10	123678-HxCDF	34.04	2.151e5	1.734e5	1.019	1.24	1.24	1089.9	YES	NO	dd	dd	53.338
11	123478-HxCDF	33.89	1.927e5	1.579e5	1.045	1.22	1.24	1062.3	YES	NO	bd	bd	49.703
12	123468-HXCDF	32.20	2.124e5	1.716e5	1.156	1.24	1.24	1157.6	YES	NO	bb	bb	49.205
13	1234678-HpCDF	37.87	1.901e5	1.765e5	1.243	1.08	1.05	1144.8	YES	NO	bd	bb	50.501
14	1234789-HpCDF	40.00	1.445e5	1.418e5	1.192	1.02	1.05	793.4	YES	NO	bd	bb	55.350
15	OCDF	43.97	2.043e5	2.084e5	1.303	0.98	0.89	990.2	YES	NO	bd	bb	100.555
16	13468-PECDF	26.12	3.774e5	2.530e5	1.308	1.49	1.55	4833.7	YES	NO	bb	bb	48.296
17	1368-TCDD	22.57	4.008e4	4.974e4	1.151	0.81	0.77	374.1	YES	NO	bb	bb	10.045
18	1289-TCDD	26.00	3.445e4	4.183e4	0.950	0.82	0.77	299.9	YES	NO	bd	bb	10.336
19	2378-TCDD	25.41	3.885e4	4.762e4	1.168	0.82	0.77	354.4	YES	NO	bb	bb	9.528
20	Total-tetradiioxins	25.08	5.902e4	7.288e4	1.090	0.81	0.77	397.4	YES	NO	bb	bb	15.579
21	Total-tetradiioxins	24.60	1.975e4	2.314e4	1.090	0.85	0.77	174.3	YES	NO	bd	bb	5.066
22	12389-PECDD	30.89	2.185e5	1.392e5	1.371	1.57	1.55	1227.3	YES	NO	bd	bd	50.482
23	12378-PeCDD	30.50	1.830e5	1.207e5	1.152	1.52	1.55	1074.7	YES	NO	bb	bb	51.015
24	12479-PECDD	27.80	3.486e5	2.166e5	2.164	1.61	1.55	1331.6	YES	NO	bb	bb	50.511
25	123478-HxCDD	35.06	1.511e5	1.231e5	0.934	1.23	1.24	1214.4	YES	NO	bd	bd	51.711
26	124679-HXCDD	32.99	1.849e5	1.474e5	1.153	1.25	1.24	1336.7	YES	NO	bd	bb	50.785
27	Total-pentadiioxins	31.12	1.339e3	9.029e2	1.562	1.48	1.55	10.6	YES	NO	dd	db	0.278
28	123789-HxCDD	35.57	1.467e5	1.235e5	0.873	1.19	1.24	1109.3	YES	NO	bb	bd	51.186
29	123678-HxCDD	35.18	1.645e5	1.370e5	0.950	1.20	1.24	1247.3	YES	NO	db	dd	49.437
30	1234678-HpCDD	39.31	1.163e5	1.099e5	1.268	1.06	1.05	850.2	YES	NO	bd	bd	50.549
31	1234679-HPCDD	38.31	1.400e5	1.280e5	1.473	1.09	1.05	1035.1	YES	NO	bd	bd	51.555
32	OCDD	43.75	1.608e5	1.727e5	1.089	0.93	0.89	416.8	YES	NO	bd	bb	97.184



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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	20.82	4.052e4					1.9	NO		bb		
2	FUNCTION1 PFK	20.74	1.121e5					2.3	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	27.23	4.956e5					7.3	YES		bb		0.000

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.89	3.517e3					0.6	NO		bb		0.000
2	FUNCTION3 PFK	33.60	2.488e4					1.6	NO		bb		0.000
3	FUNCTION3 PFK	33.31	6.165e4					2.0	NO		db		0.000
4	FUNCTION3 PFK	33.22	2.150e4					1.8	NO		bd		0.000
5	FUNCTION3 PFK	32.98	5.181e3					0.7	NO		bb		0.000
6	FUNCTION3 PFK	32.92	1.590e4					1.7	NO		bb		0.000
7	FUNCTION3 PFK	32.65	2.374e4					1.7	NO		db		0.000
8	FUNCTION3 PFK	32.60	1.746e4					1.8	NO		dd		0.000
9	FUNCTION3 PFK	32.55	3.776e4					2.3	NO		dd		0.000
10	FUNCTION3 PFK	32.43	6.769e4					2.1	NO		bd		0.000
11	FUNCTION3 PFK	32.36	2.181e4					1.8	NO		bb		0.000
12	FUNCTION3 PFK	32.04	2.058e4					1.5	NO		bb		0.000
13	FUNCTION3 PFK	31.97	1.826e4					1.6	NO		bb		0.000
14	FUNCTION3 PFK	31.90	4.929e3					0.7	NO		bb		0.000
15	FUNCTION3 PFK	36.83	8.116e3					1.0	NO		bb		0.000
16	FUNCTION3 PFK	36.33	5.796e3					0.9	NO		bb		0.000
17	FUNCTION3 PFK	36.09	1.074e4					0.7	NO		bb		0.000
18	FUNCTION3 PFK	35.81	1.941e3					0.5	NO		bb		0.000
19	FUNCTION3 PFK	35.76	6.952e3					1.0	NO		bb		0.000
20	FUNCTION3 PFK	35.25	2.310e4					1.3	NO		db		0.000
21	FUNCTION3 PFK	35.13	6.639e4					2.0	NO		bd		0.000
22	FUNCTION3 PFK	34.67	3.922e3					0.6	NO		bb		0.000
23	FUNCTION3 PFK	34.63	1.978e4					1.9	NO		db		0.000
24	FUNCTION3 PFK	34.59	4.034e4					1.6	NO		bd		0.000
25	FUNCTION3 PFK	34.46	1.514e3					0.4	NO		bb		0.000
26	FUNCTION3 PFK	34.38	5.715e3					0.9	NO		bb		0.000
27	FUNCTION3 PFK	34.34	2.369e3					0.6	NO		bb		0.000
28	FUNCTION3 PFK	34.25	8.358e3					0.6	NO		bb		0.000
29	FUNCTION3 PFK	34.18	4.129e3					0.8	NO		bb		0.000
30	FUNCTION3 PFK	33.95	1.086e4					1.1	NO		bb		0.000

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 Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:32:55 Pacific Daylight Time

**ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk**

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.77	8.878e3					1.2	NO		db		
2	FUNCTION4 PFK	39.73	1.757e4					1.7	NO		bd		
3	FUNCTION4 PFK	39.35	2.438e4					1.6	NO		bb		
4	FUNCTION4 PFK	39.18	1.508e4					1.6	NO		bb		
5	FUNCTION4 PFK	38.36	2.872e4					1.9	NO		db		
6	FUNCTION4 PFK	38.27	1.005e4					1.3	NO		bd		
7	FUNCTION4 PFK	38.09	6.901e3					1.0	NO		bb		
8	FUNCTION4 PFK	38.02	2.483e4					2.4	NO		db		
9	FUNCTION4 PFK	37.95	3.987e4					2.4	NO		bd		
10	FUNCTION4 PFK	37.87	4.642e3					1.1	NO		bb		
11	FUNCTION4 PFK	37.29	4.615e3					0.8	NO		bb		
12	FUNCTION4 PFK	37.10	1.054e4					1.1	NO		bb		
13	FUNCTION4 PFK	37.03	2.268e4					3.8	YES		db		
14	FUNCTION4 PFK	37.00	5.119e4					5.4	YES		dd		
15	FUNCTION4 PFK	36.97	2.439e4					3.5	YES		bd		
16	FUNCTION4 PFK	41.87	3.381e3					0.7	NO		bb		
17	FUNCTION4 PFK	41.81	1.776e4					1.4	NO		bb		
18	FUNCTION4 PFK	41.71	2.158e3					0.5	NO		bb		
19	FUNCTION4 PFK	41.66	1.988e3					0.7	NO		bb		
20	FUNCTION4 PFK	41.61	4.998e3					0.9	NO		bb		
21	FUNCTION4 PFK	41.56	9.504e3					1.6	NO		db		
22	FUNCTION4 PFK	41.52	1.008e4					1.5	NO		bd		
23	FUNCTION4 PFK	41.46	2.099e4					2.0	NO		bb		
24	FUNCTION4 PFK	41.03	7.814e3					1.1	NO		bb		
25	FUNCTION4 PFK	40.45	8.859e3					1.4	NO		bb		
26	FUNCTION4 PFK	40.25	2.986e4					1.9	NO		bb		
27	FUNCTION4 PFK	40.07	9.708e3					1.2	NO		bb		
28	FUNCTION4 PFK	39.93	3.932e3					0.7	NO		bb		

Dataset: T:\Autospec\Processed Data Batch\220323ICVIH.qld  
 Last Altered: Thursday, March 24, 2022 09:32:10 Pacific Daylight Time  
 Printed: Thursday, March 24, 2022 09:32:55 Pacific Daylight Time

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

### PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.58	3.914e3					1.1	NO		bb		
2	FUNCTION5 PFK	42.14	1.159e3					0.7	NO		bb		
3	FUNCTION5 PFK	44.95	3.189e3					0.9	NO		bb		
4	FUNCTION5 PFK	44.23	3.504e3					1.1	NO		bb		
5	FUNCTION5 PFK	44.14	7.000e3					0.8	NO		bb		
6	FUNCTION5 PFK	43.94	4.460e3					1.1	NO		db		
7	FUNCTION5 PFK	43.89	1.217e4					1.7	NO		bd		
8	FUNCTION5 PFK	43.63	5.511e3					1.3	NO		bb		
9	FUNCTION5 PFK	43.27	6.645e3					1.4	NO		bb		
10	FUNCTION5 PFK	42.76	1.055e3					0.6	NO		bb		
11	FUNCTION5 PFK	42.73	1.360e4					2.6	NO		db		
12	FUNCTION5 PFK	42.67	5.377e3					1.3	NO		bd		

### ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCDPE	24.13	7.066e1					3.8	YES		bb		0.000
2	FUNCTION1 HXCDPE	22.12	9.358e1					2.8	NO		bb		0.000
3	FUNCTION1 HXCDPE	21.33	7.032e1					1.8	NO		bb		0.000
4	FUNCTION1 HXCDPE	21.09	1.038e2					3.1	YES		db		0.000
5	FUNCTION1 HXCDPE	21.00	2.833e2					1.6	NO		bd		0.000
6	FUNCTION1 HXCDPE	26.71	9.583e1					2.9	NO		bb		0.000
7	FUNCTION1 HXCDPE	26.11	1.827e2					3.4	YES		bb		0.000
8	FUNCTION1 HXCDPE	25.70	9.404e1					1.1	NO		bb		0.000
9	FUNCTION1 HXCDPE	25.37	1.254e2					3.1	YES		bb		0.000

### ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCDPE	26.33	1.227e2					4.2	YES		bb		0.000
2	FUNCTION1 HPCDPE	24.85	8.564e1					3.2	YES		db		0.000
3	FUNCTION1 HPCDPE	24.81	1.650e2					4.3	YES		bd		0.000
4	FUNCTION1 HPCDPE	24.55	1.050e2					1.5	NO		bb		0.000
5	FUNCTION1 HPCDPE	24.43	9.706e1					2.0	NO		bb		0.000
6	FUNCTION1 HPCDPE	23.93	1.168e2					1.3	NO		bb		0.000
7	FUNCTION1 HPCDPE	23.57	8.153e1					3.2	YES		bb		0.000

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**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCDPE	30.16	2.169e2					5.2	YES		bb		0.000
2	FUNCTION2 HPCDPE	28.16	1.043e2					2.7	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.21	1.241e2					2.5	NO		bb		0.000
2	FUNCTION3 OCDPE	35.94	7.801e1					2.0	NO		bb		0.000
3	FUNCTION3 OCDPE	35.18	1.764e2					3.3	YES		db		0.000
4	FUNCTION3 OCDPE	35.06	2.108e2					3.6	YES		bd		0.000
5	FUNCTION3 OCDPE	34.44	9.618e1					1.6	NO		bb		0.000
6	FUNCTION3 OCDPE	34.01	1.109e2					2.1	NO		db		0.000
7	FUNCTION3 OCDPE	33.94	7.250e1					1.8	NO		bd		0.000
8	FUNCTION3 OCDPE	33.13	8.389e1					4.6	YES		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.27	8.593e1					2.4	NO		bb		0.000
2	FUNCTION4 NCDPE	40.62	8.665e1					2.4	NO		db		0.000
3	FUNCTION4 NCDPE	40.56	9.468e1					2.4	NO		bd		0.000
4	FUNCTION4 NCDPE	39.33	1.950e2					4.6	YES		bb		0.000
5	FUNCTION4 NCDPE	37.81	8.300e1					3.0	NO		bb		0.000

**ETHERS6**

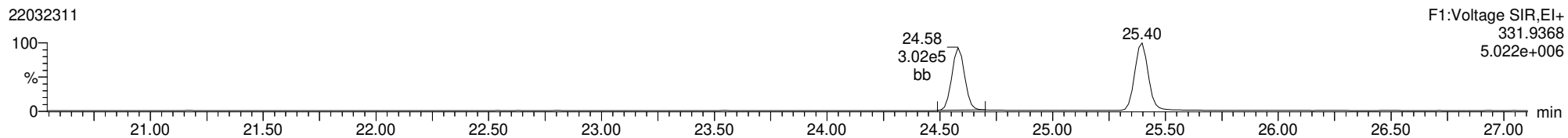
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1													

Method: T:\Autospec\Methods\Dioxin220321.mdb 24 Mar 2022 08:41:29  
Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 08:56:14

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

**13C-1234-TCDD**

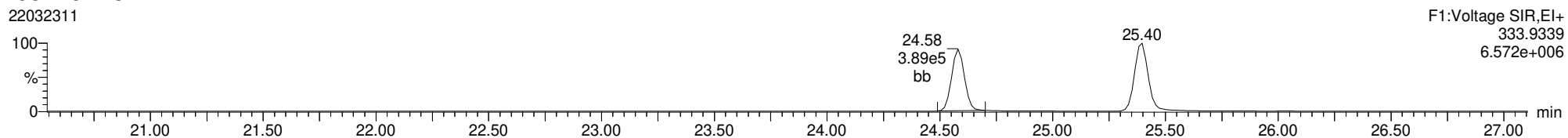
22032311



F1:Voltage SIR,El+  
331.9368  
5.022e+006

**13C-1234-TCDD**

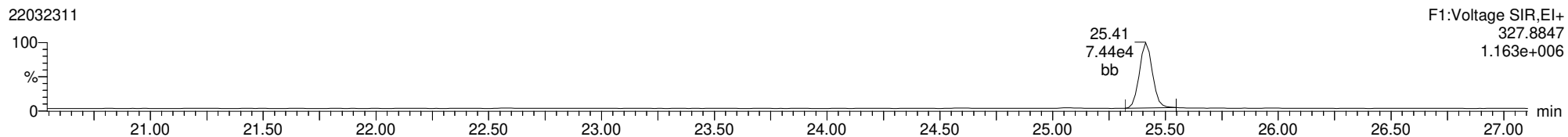
22032311



F1:Voltage SIR,El+  
333.9339  
6.572e+006

**37CL-2378-TCDD**

22032311

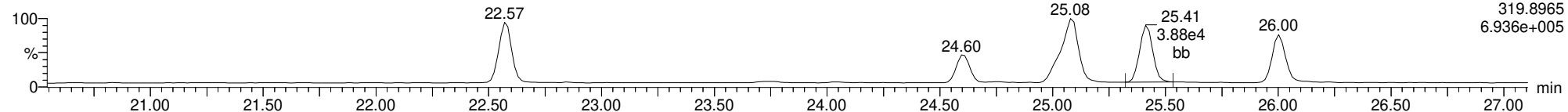


F1:Voltage SIR,El+  
327.8847  
1.163e+006

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

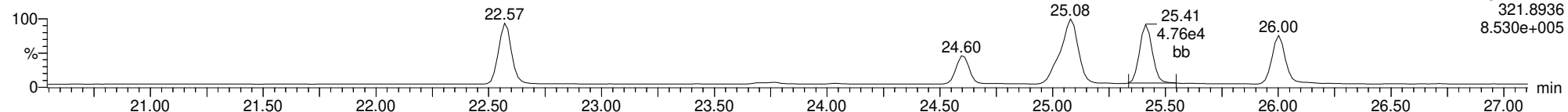
**2378-TCDD**

22032311



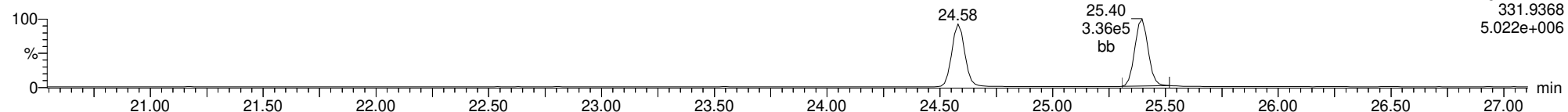
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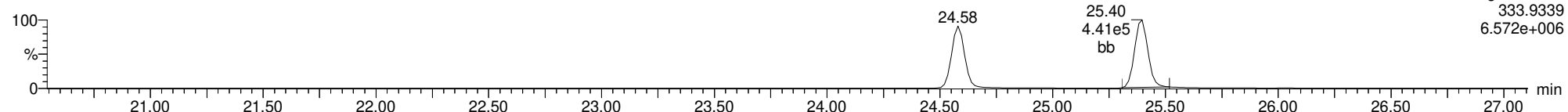
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22032311



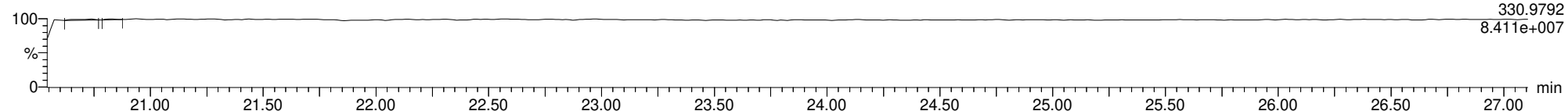
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22032311



**FUNCTION1 PFK**

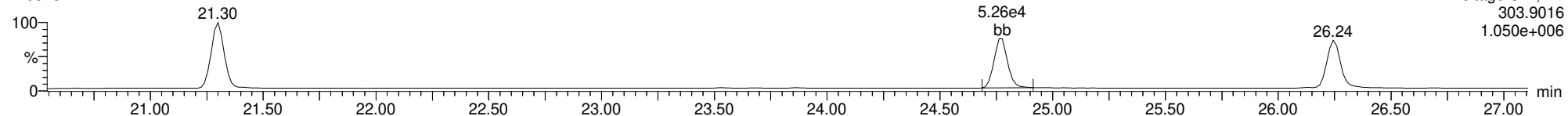
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ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

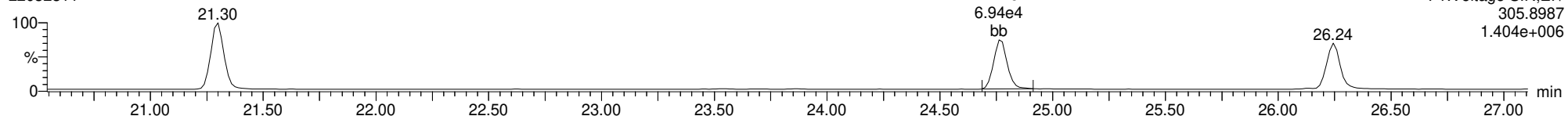
**2378-TCDF**

22032311



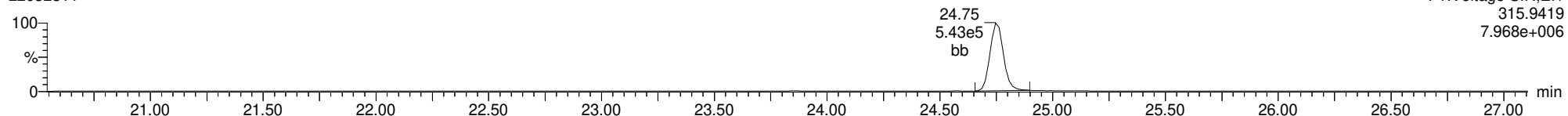
**2378-TCDF**

22032311



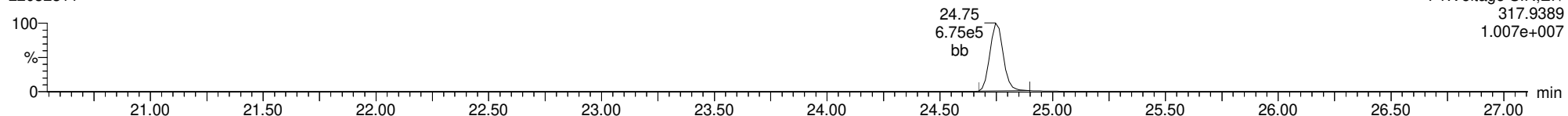
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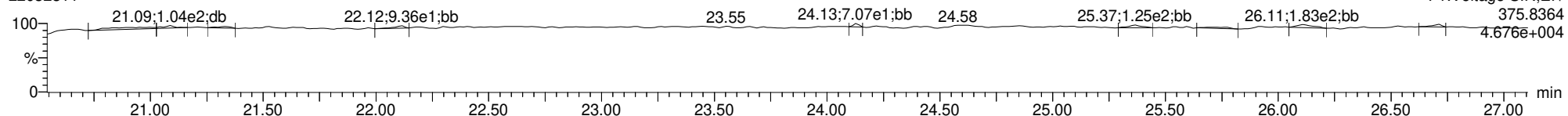
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22032311



**FUNCTION1 HXCDPE**

22032311

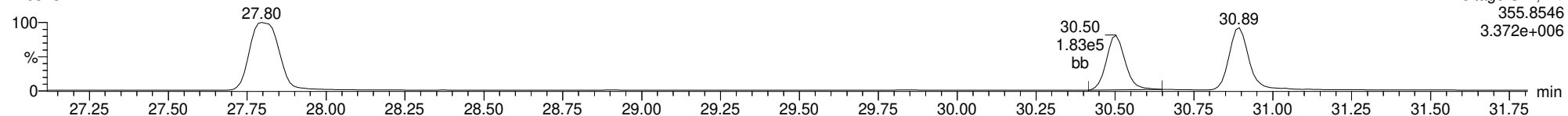




ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

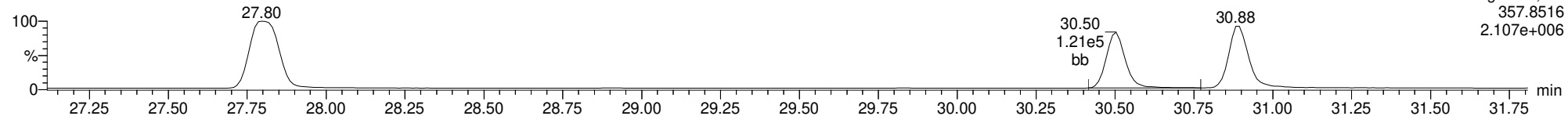
**12378-PeCDD**

22032311



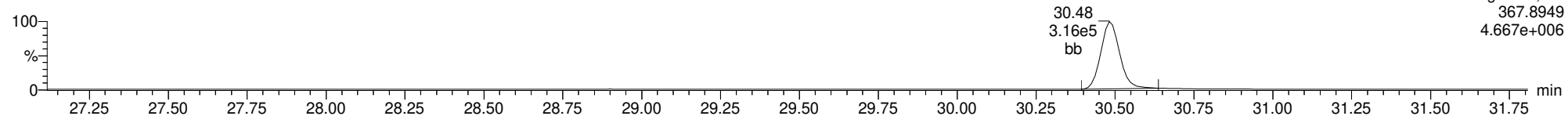
**12378-PeCDD**

22032311



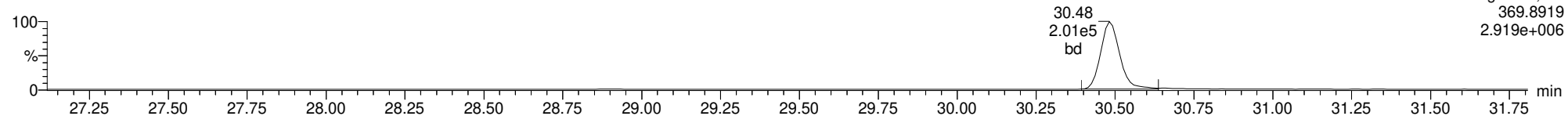
**13C-12378-PeCDD**

22032311



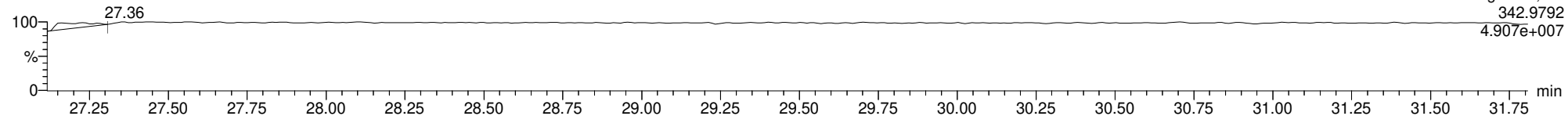
**13C-12378-PeCDD**

22032311



**FUNCTION2 PFK**

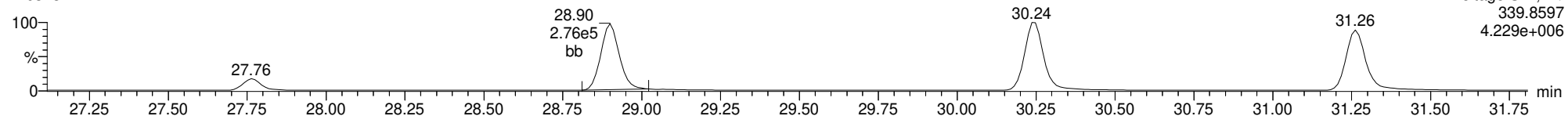
22032311



ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

12378-PeCDF

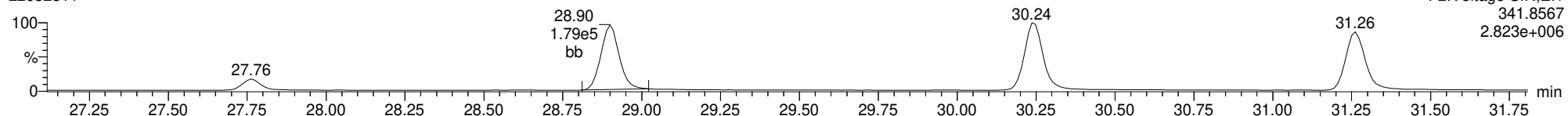
22032311



F2:Voltage SIR,El+  
339.8597  
4.229e+006

12378-PeCDF

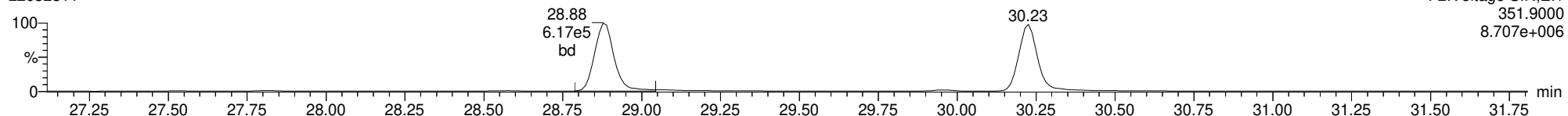
22032311



F2:Voltage SIR,El+  
341.8567  
2.823e+006

13C-12378-PeCDF

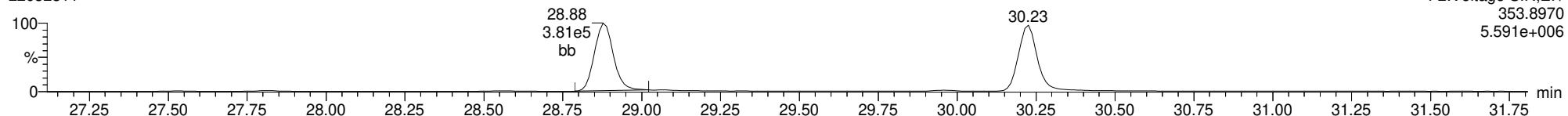
22032311



F2:Voltage SIR,El+  
351.9000  
8.707e+006

13C-12378-PeCDF

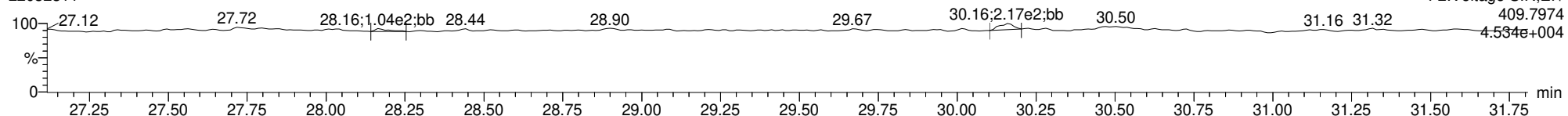
22032311



F2:Voltage SIR,El+  
353.8970  
5.591e+006

FUNCTION2 HPCDPE

22032311

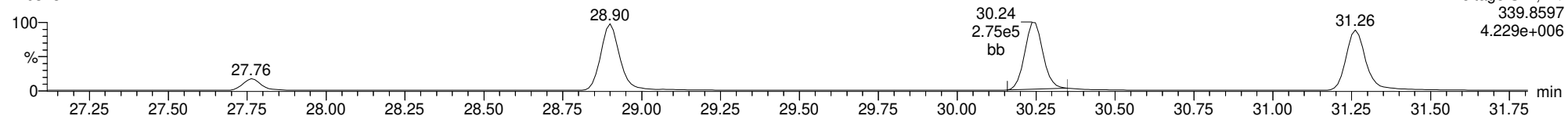


F2:Voltage SIR,El+  
409.7974  
4.534e+004

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

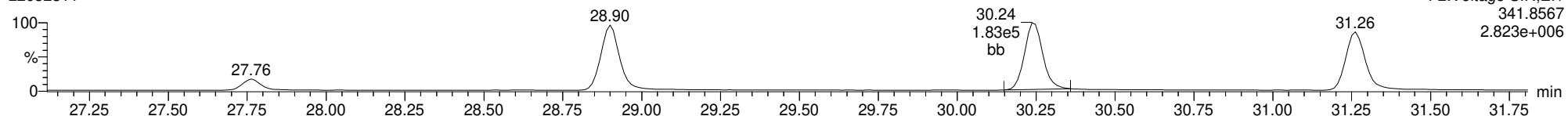
**23478-PeCDF**

22032311



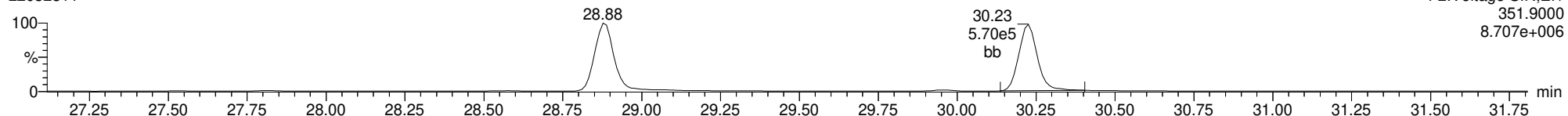
**23478-PeCDF**

22032311



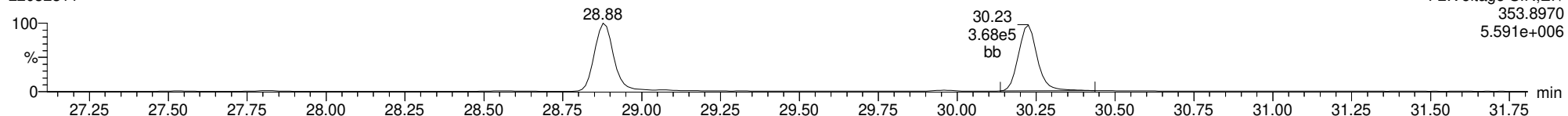
**13C-23478-PeCDF**

22032311



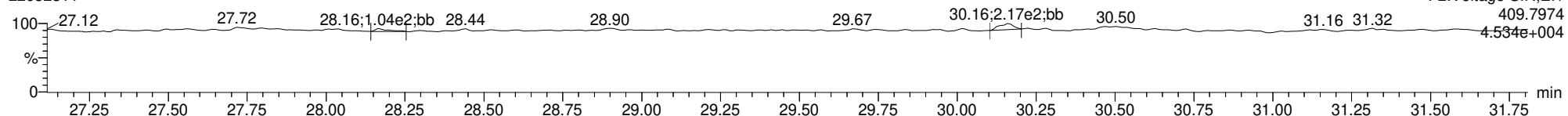
**13C-23478-PeCDF**

22032311



**FUNCTION2 HPCDPE**

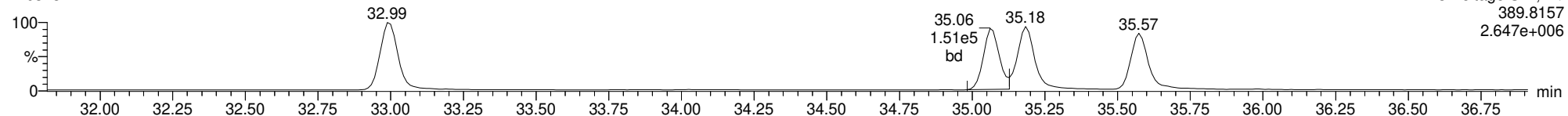
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ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

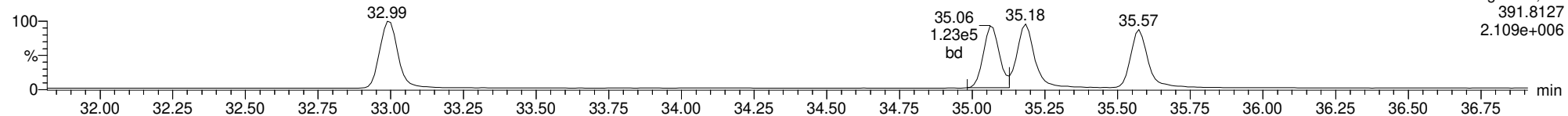
22032311



F3:Voltage SIR,El+  
389.8157  
2.647e+006

123478-HxCDD

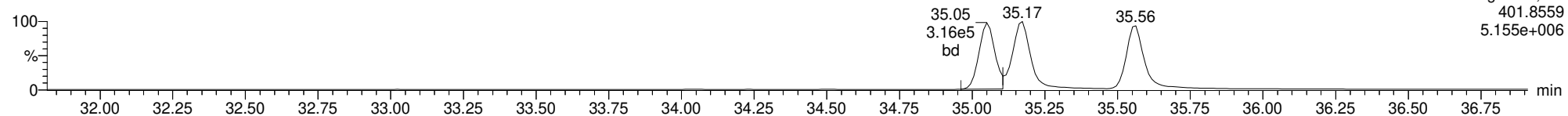
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F3:Voltage SIR,El+  
391.8127  
2.109e+006

13C-123478-HxCDD

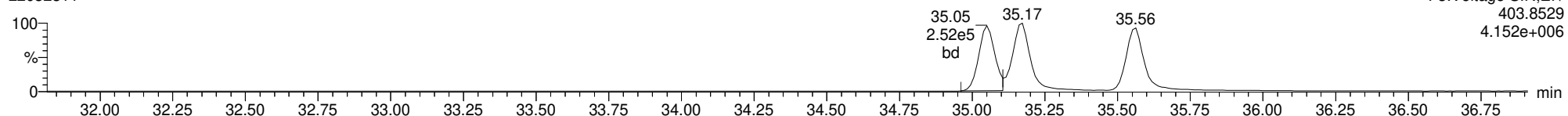
22032311



F3:Voltage SIR,El+  
401.8559  
5.155e+006

13C-123478-HxCDD

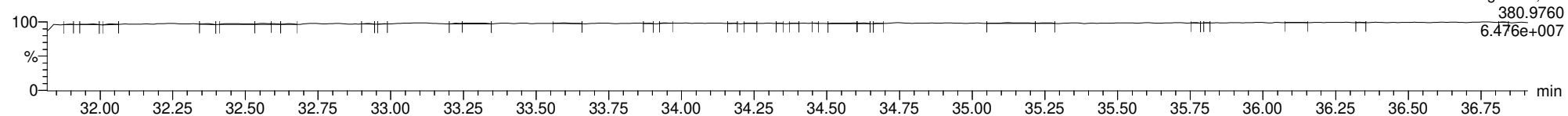
22032311



F3:Voltage SIR,El+  
403.8529  
4.152e+006

FUNCTION3 PFK

22032311

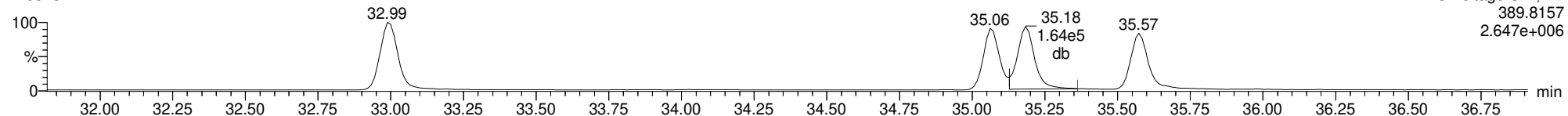


F3:Voltage SIR,El+  
380.9760  
6.476e+007

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

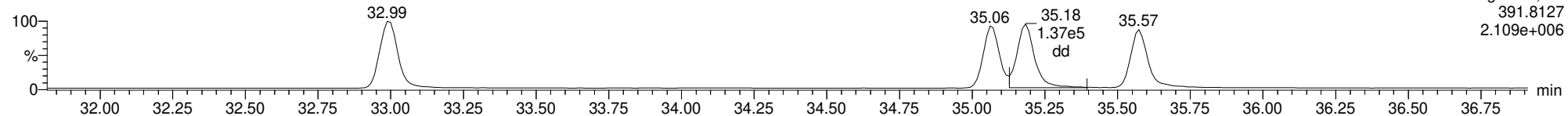
**123678-HxCDD**

22032311



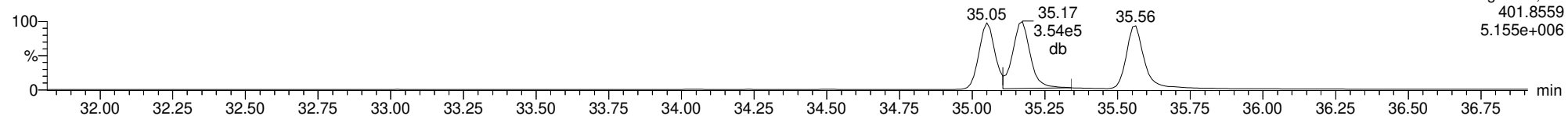
**123678-HxCDD**

22032311



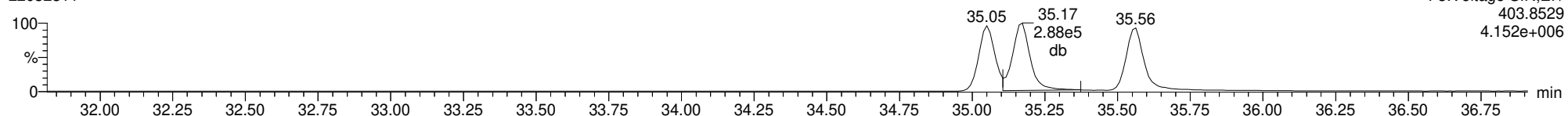
**13C-123678-HxCDD**

22032311



**13C-123678-HxCDD**

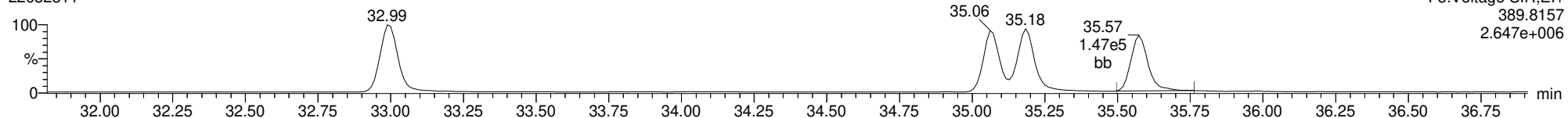
22032311



ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

**123789-HxCDD**

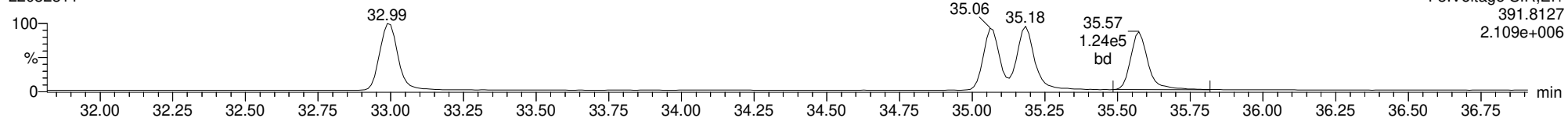
22032311



F3:Voltage SIR,El+  
389.8157  
2.647e+006

**123789-HxCDD**

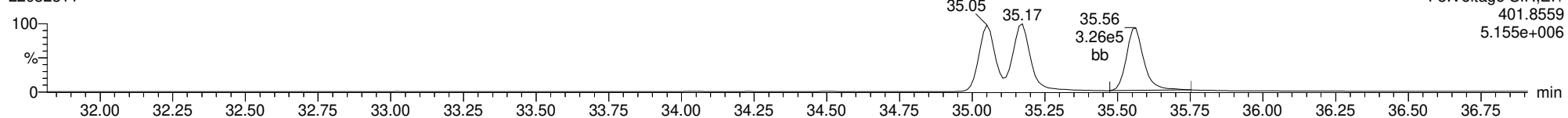
22032311



F3:Voltage SIR,El+  
391.8127  
2.109e+006

**13C-123789-HxCDD**

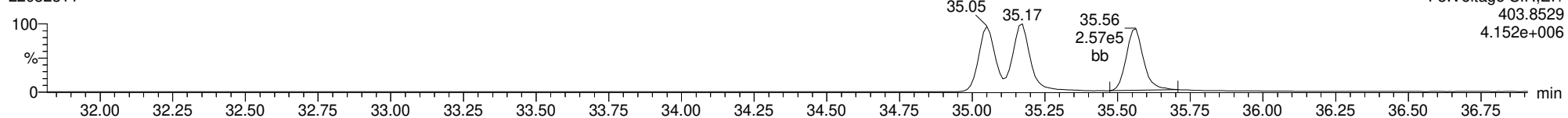
22032311



F3:Voltage SIR,El+  
401.8559  
5.155e+006

**13C-123789-HxCDD**

22032311

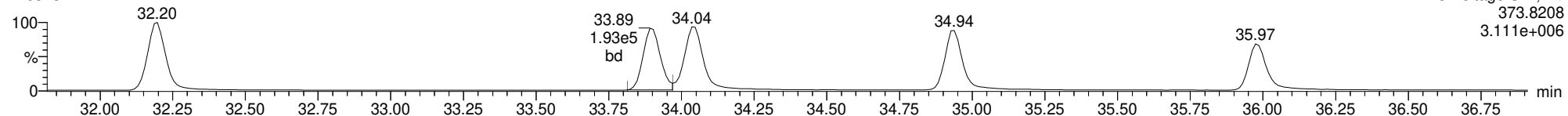


F3:Voltage SIR,El+  
403.8529  
4.152e+006

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

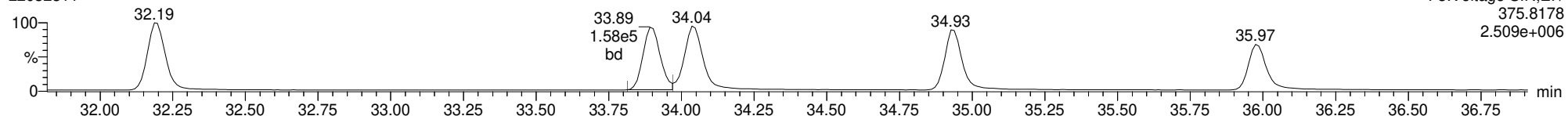
123478-HxCDF

22032311



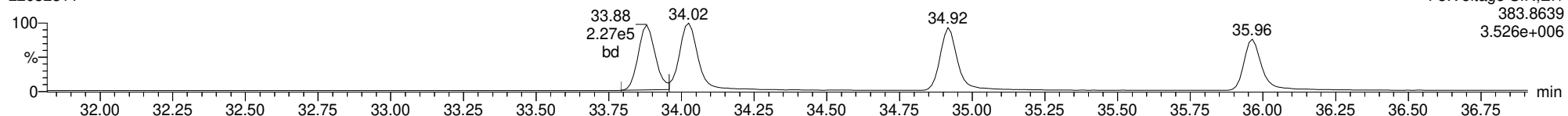
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22032311



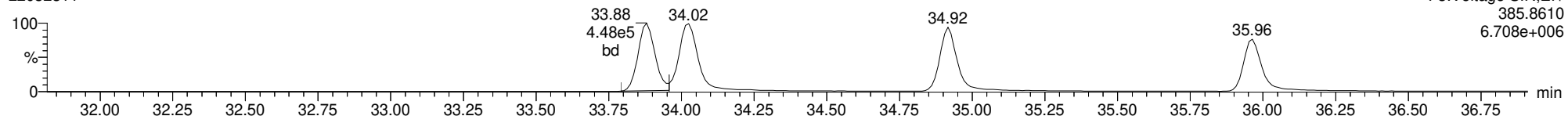
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22032311



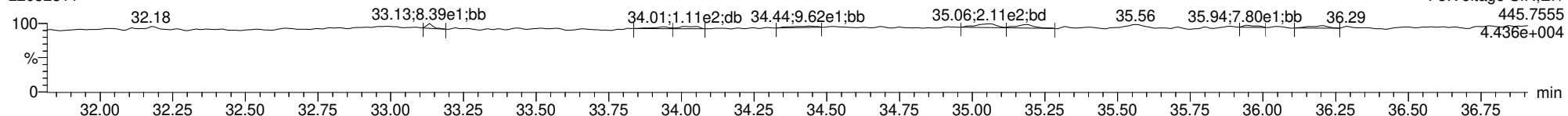
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22032311



FUNCTION3 OCDPE

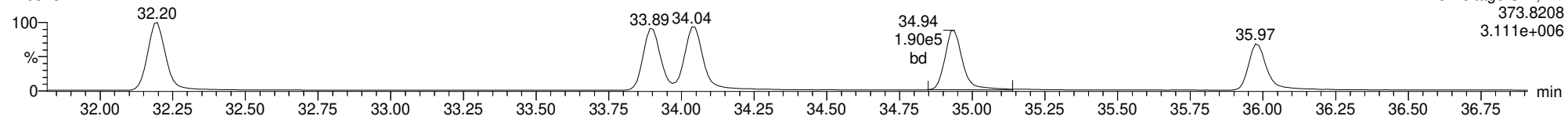
22032311



ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

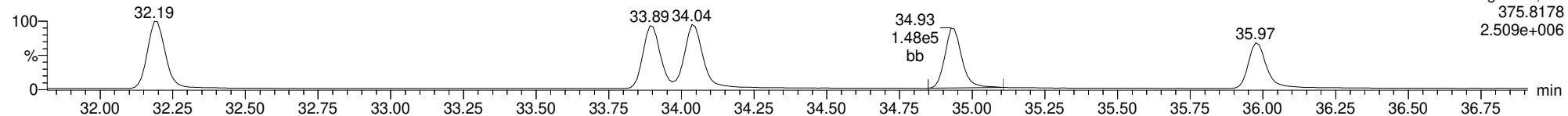
234678-HxCDF

22032311



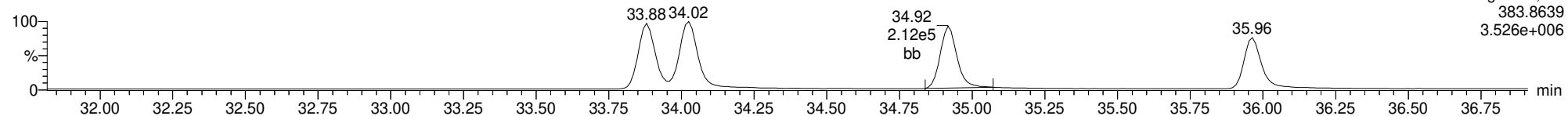
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22032311



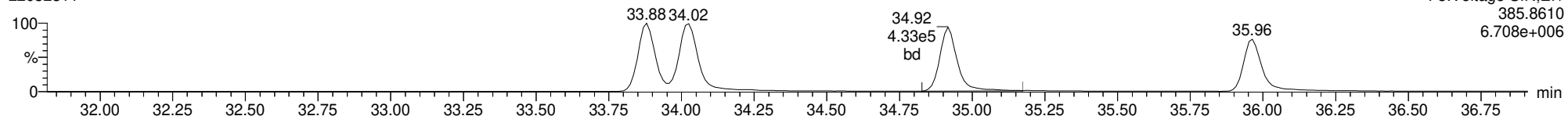
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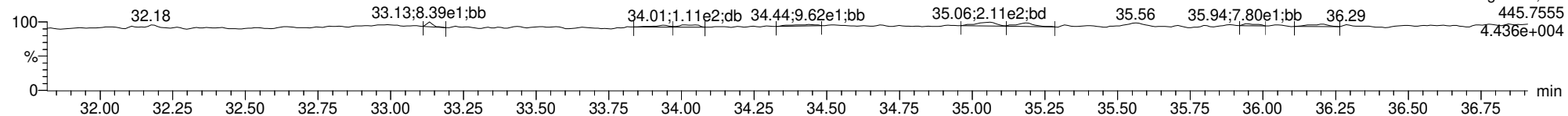
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22032311



FUNCTION3 OCDPE

22032311

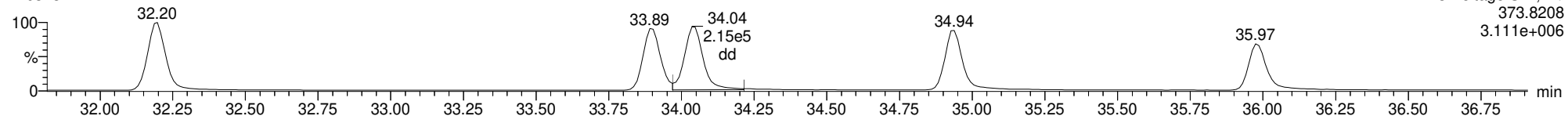




ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

123678-HxCDF

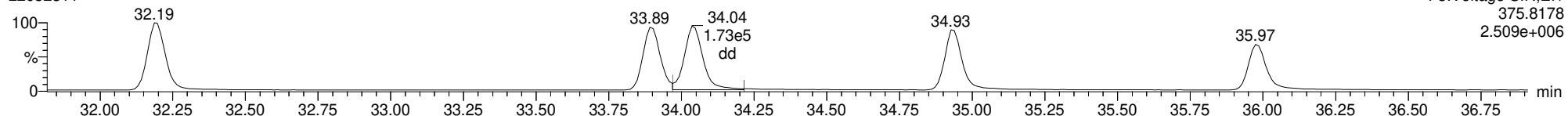
22032311



F3:Voltage SIR,El+  
373.8208  
3.111e+006

123678-HxCDF

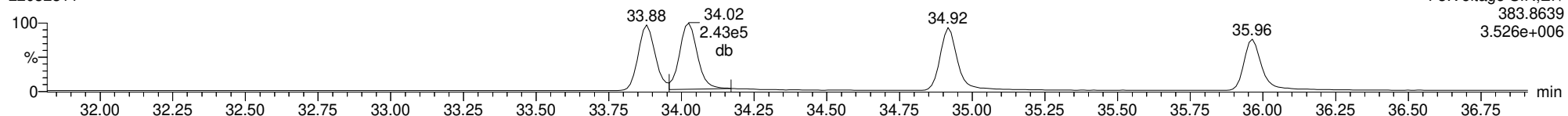
22032311



F3:Voltage SIR,El+  
375.8178  
2.509e+006

13C-123678-HxCDF

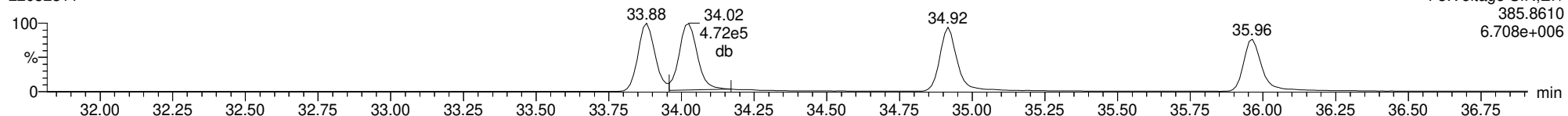
22032311



F3:Voltage SIR,El+  
383.8639  
3.526e+006

13C-123678-HxCDF

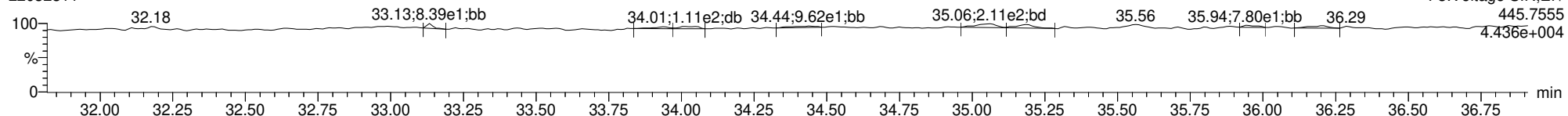
22032311



F3:Voltage SIR,El+  
385.8610  
6.708e+006

FUNCTION3 OCDPE

22032311

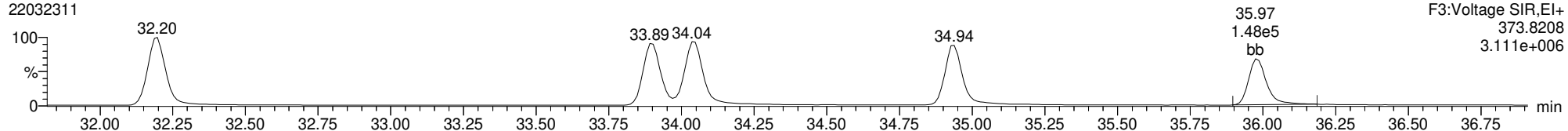


F3:Voltage SIR,El+  
445.7555  
4.436e+004

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

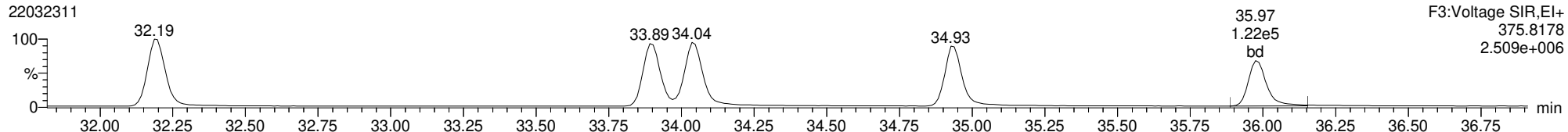
123789-HxCDF

22032311



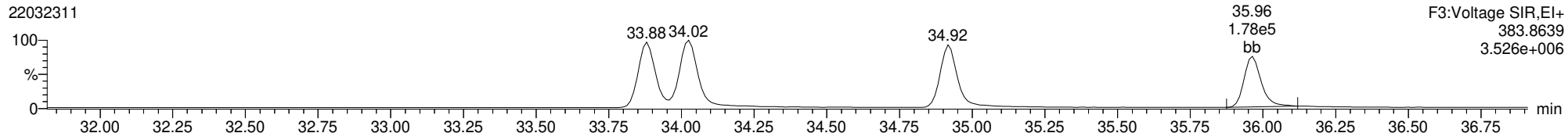
123789-HxCDF

22032311



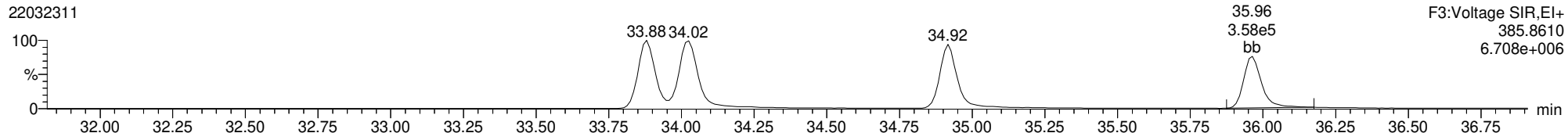
13C-123789-HxCDF

22032311



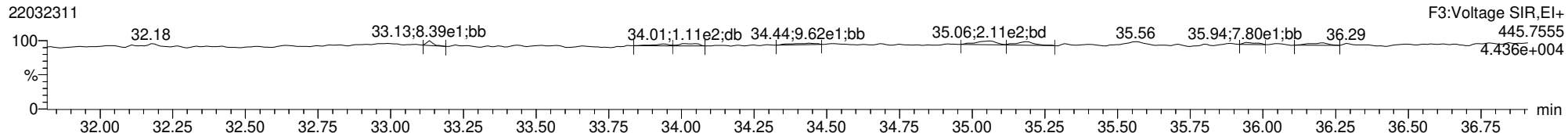
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22032311



FUNCTION3 OCDPE

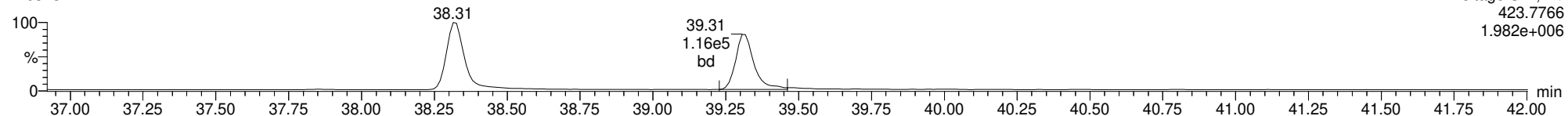
22032311



ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

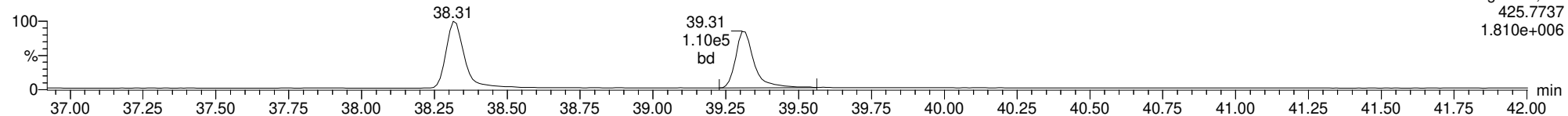
1234678-HpCDD

22032311



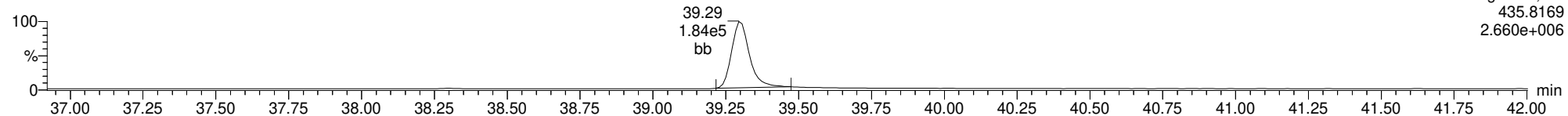
1234678-HpCDD

22032311



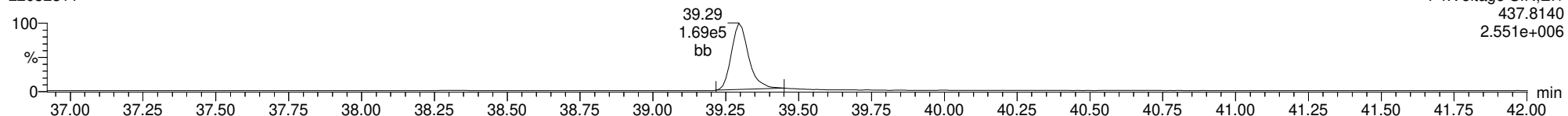
13C-1234678-HpCDD

22032311



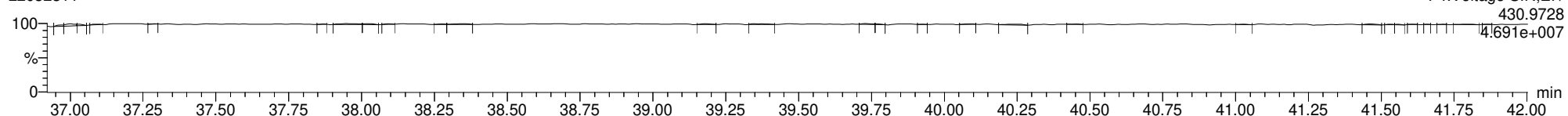
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22032311



FUNCTION4 PFK

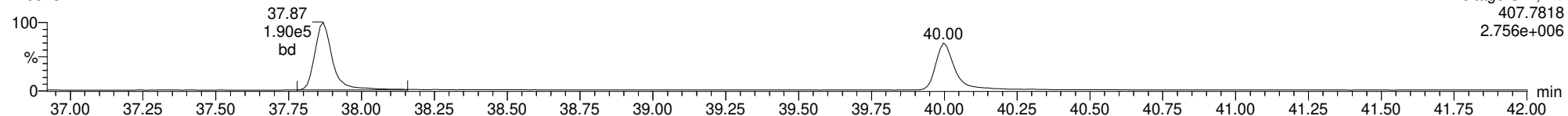
22032311



ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

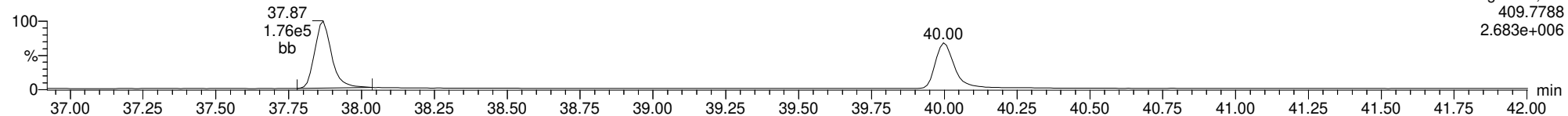
1234678-HpCDF

22032311



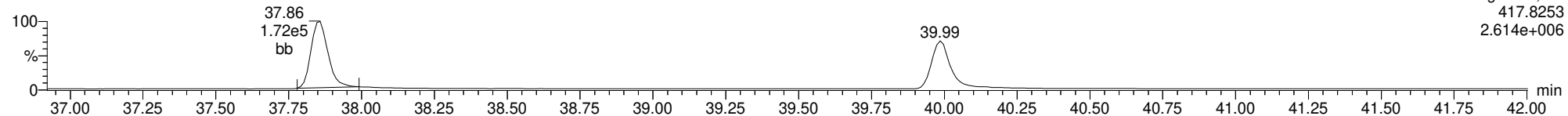
1234678-HpCDF

22032311



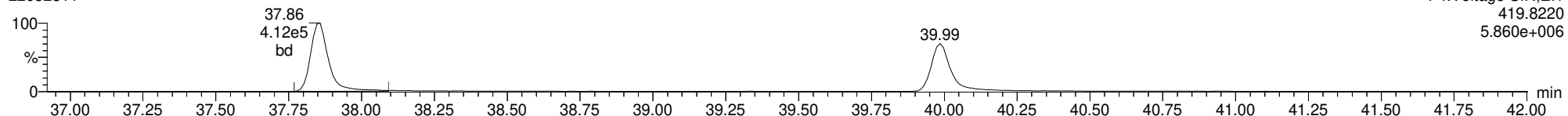
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22032311



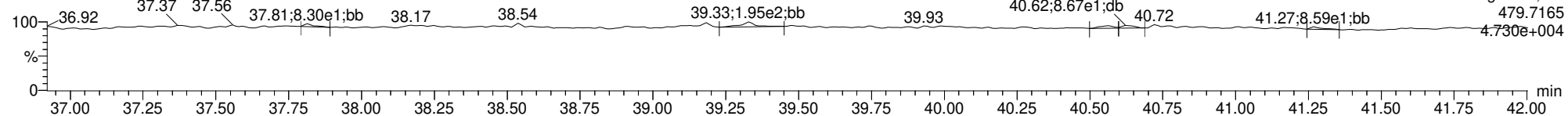
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22032311



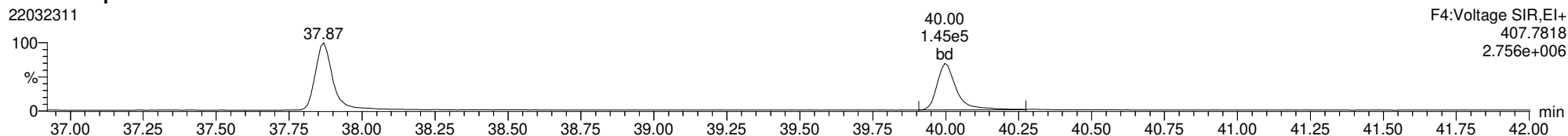
FUNCTION4 NCDPE

22032311

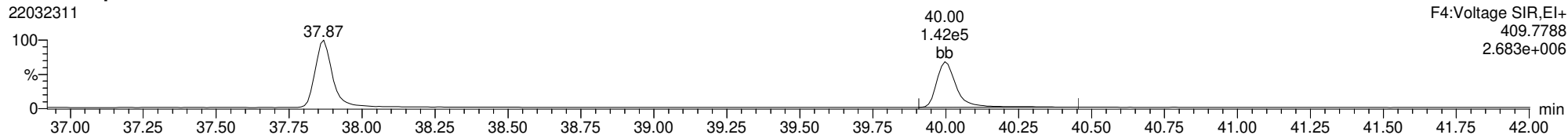


ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

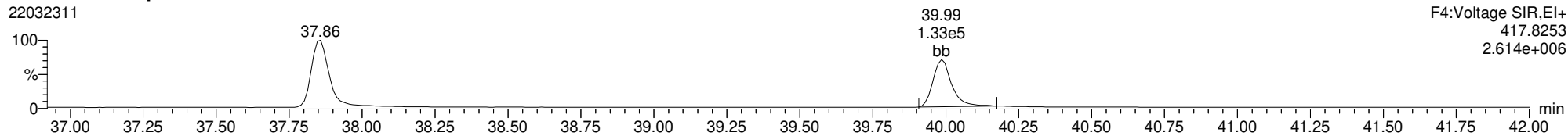
1234789-HpCDF



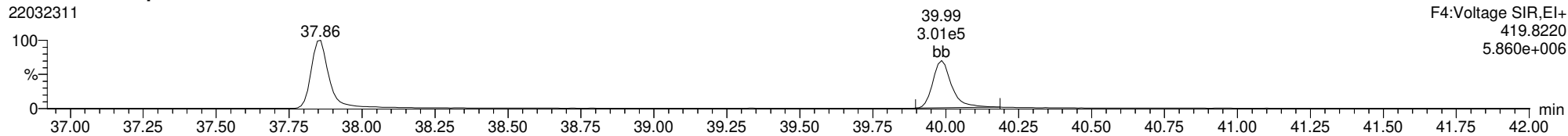
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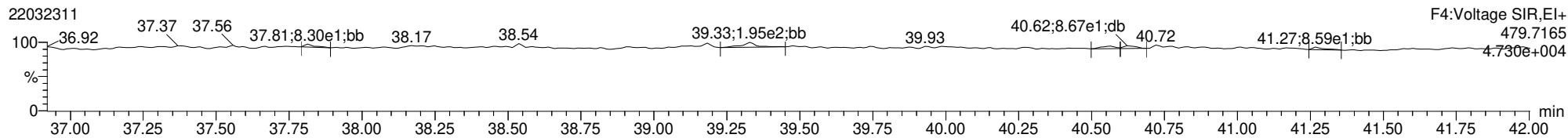
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13C-1234789-HpCDF



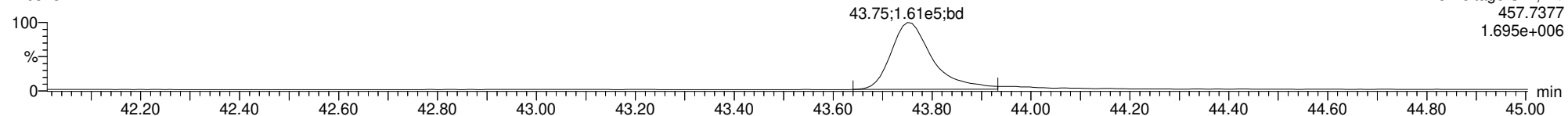
FUNCTION4 NCDPE



ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

**OCDD**

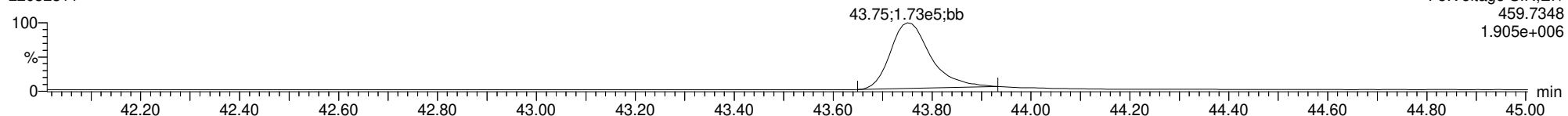
22032311



F5:Voltage SIR,El+  
457.7377  
1.695e+006

**OCDD**

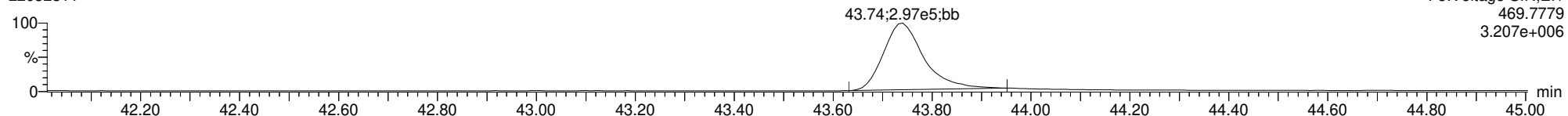
22032311



F5:Voltage SIR,El+  
459.7348  
1.905e+006

**13C-OCDD**

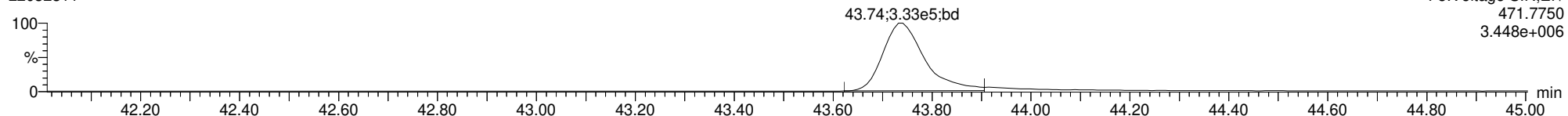
22032311



F5:Voltage SIR,El+  
469.7779  
3.207e+006

**13C-OCDD**

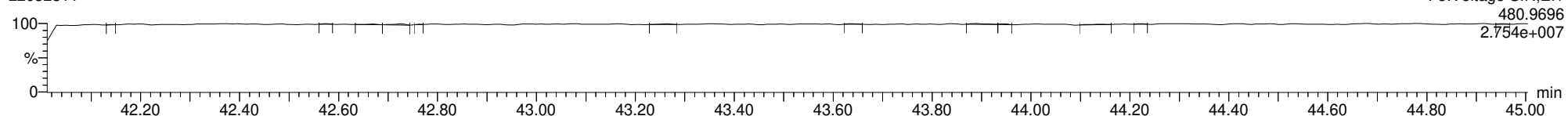
22032311



F5:Voltage SIR,El+  
471.7750  
3.448e+006

**FUNCTION5 PFK**

22032311

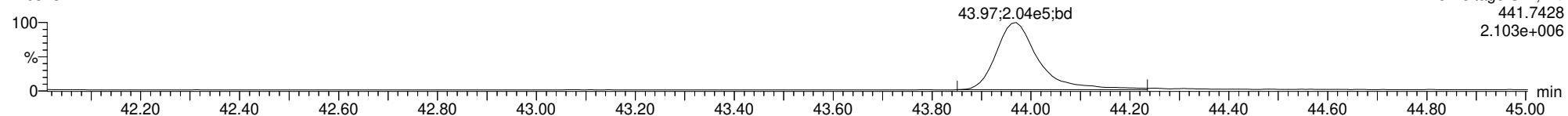


F5:Voltage SIR,El+  
480.9696  
2.754e+007

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

**OCDF**

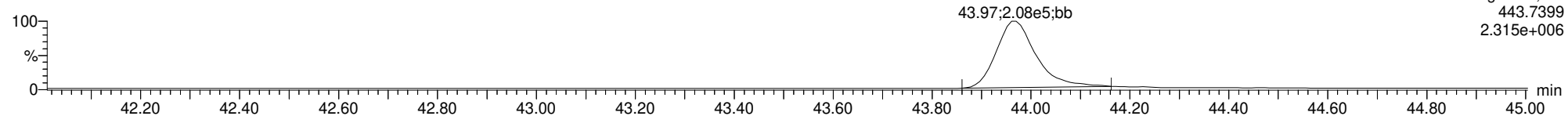
22032311



F5:Voltage SIR,EI+  
441.7428  
2.103e+006

**OCDF**

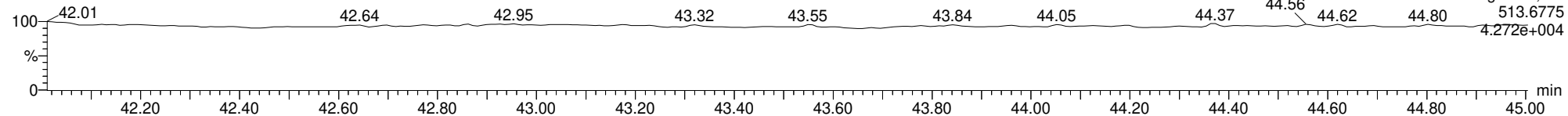
22032311



F5:Voltage SIR,EI+  
443.7399  
2.315e+006

**FUNCTION5 DCDPE**

22032311

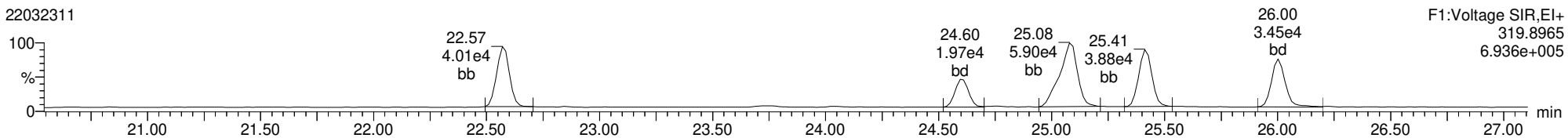


F5:Voltage SIR,EI+  
513.6775  
4.272e+004

ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

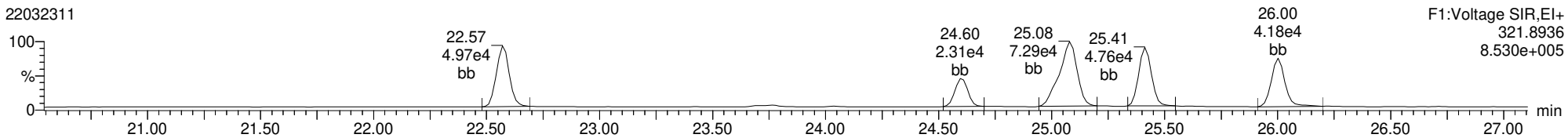
**Total-tetradoxins**

22032311



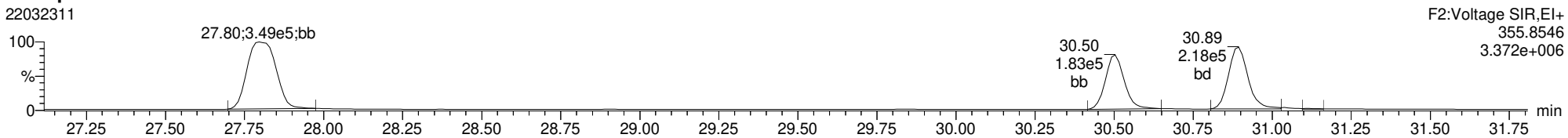
**Total-tetradoxins**

22032311



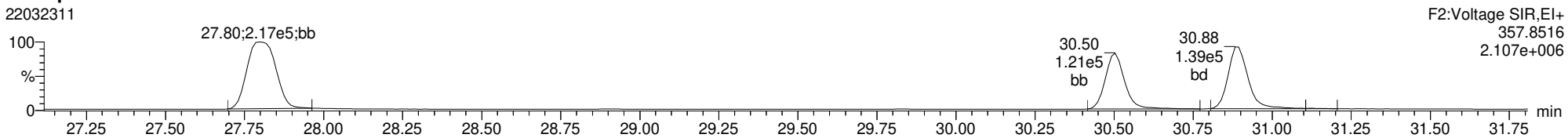
**Total-pentadoxins**

22032311



**Total-pentadoxins**

22032311

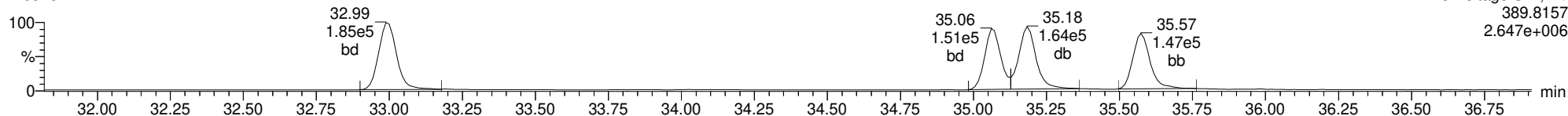




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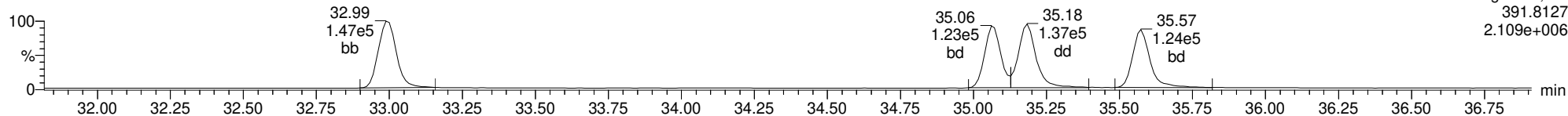
**Total-hexadioxins**

22032311



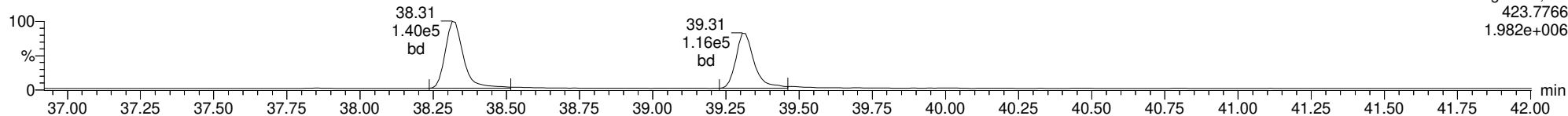
**Total-hexadioxins**

22032311



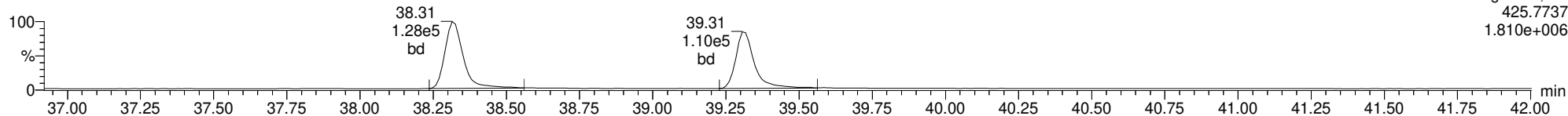
**Total-heptadioxins**

22032311



**Total-heptadioxins**

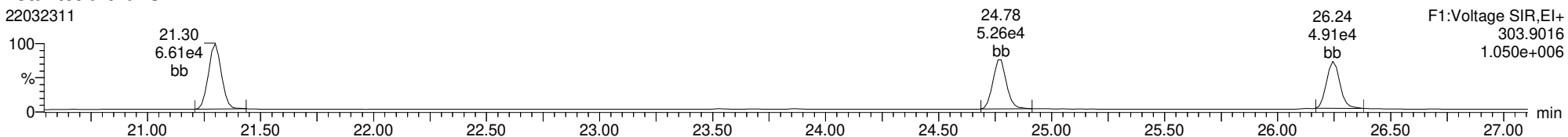
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ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

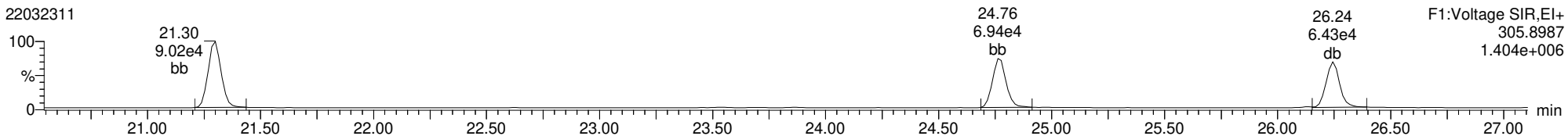
**Total-tetrafurans**

22032311



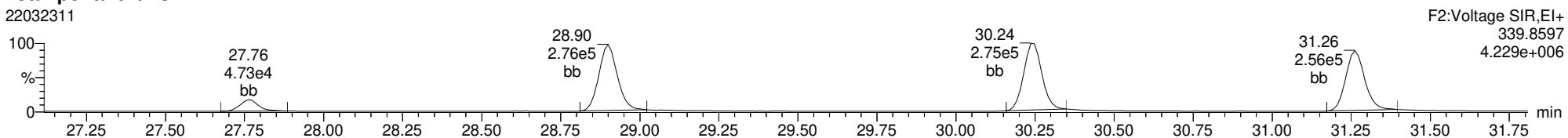
**Total-tetrafurans**

22032311



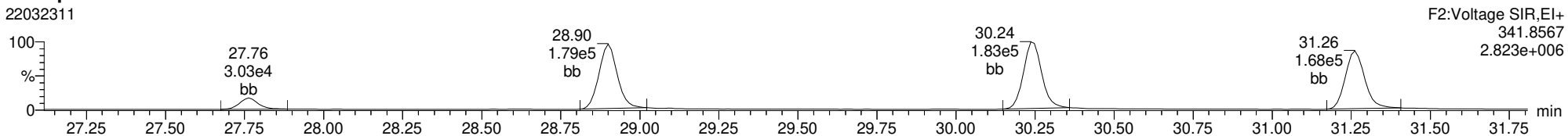
**Total-pentafurans**

22032311



**Total-pentafurans**

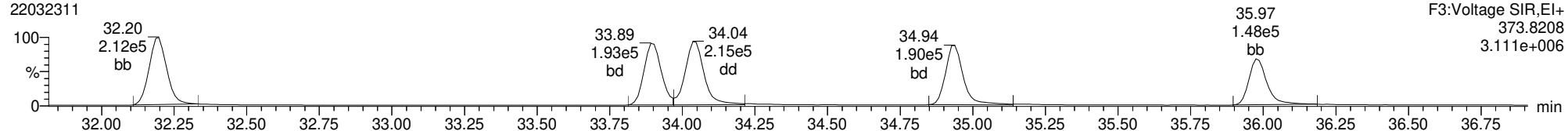
22032311



ID: CS3H2, Name: 22032311, Date: 23-Mar-2022, Time: 17:34:21, Conditions: AUTOSPEC01, User: pk

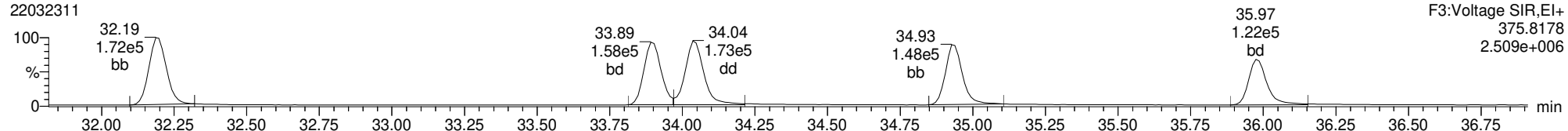
**Total-hexafurans**

22032311



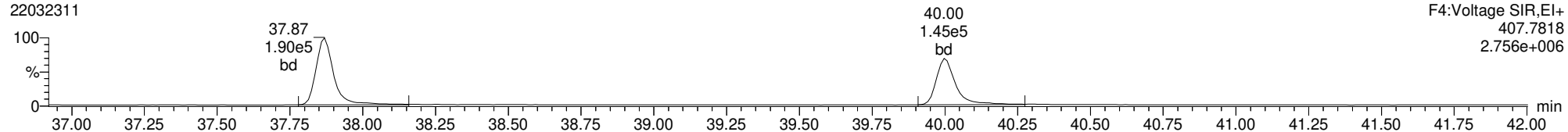
**Total-hexafurans**

22032311



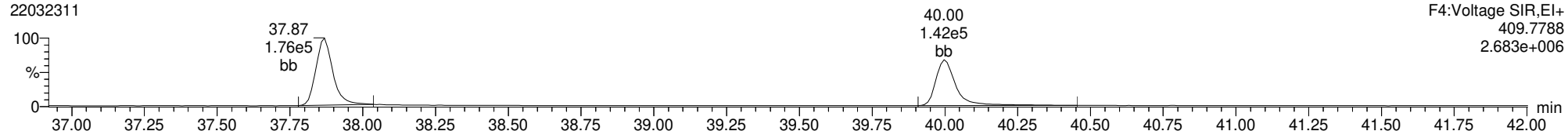
**Total-heptafurans**

22032311

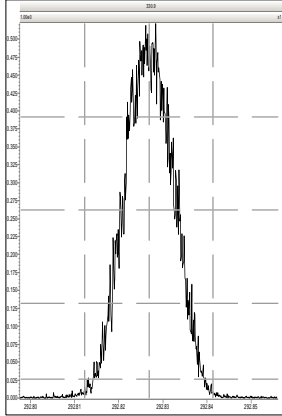


**Total-heptafurans**

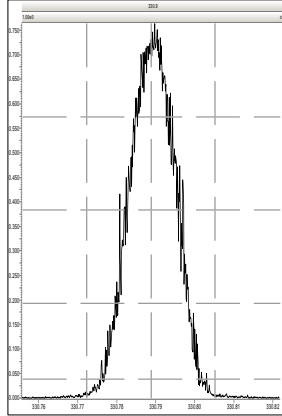
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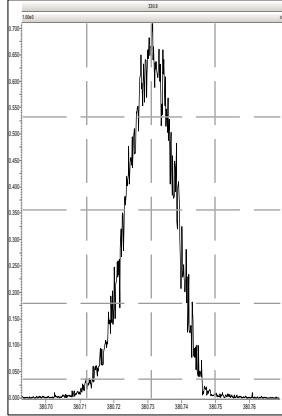
M 292.9824 R 11857



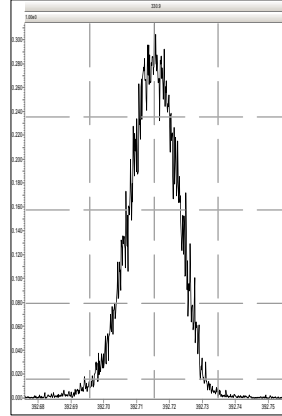
M 330.9792 R 13736



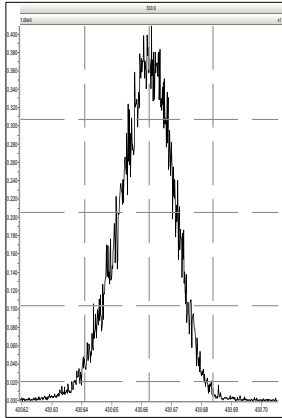
M 380.9760 R 12201



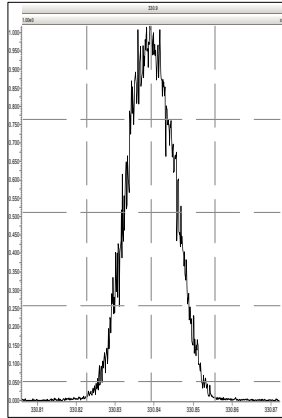
M 392.9760 R 11682



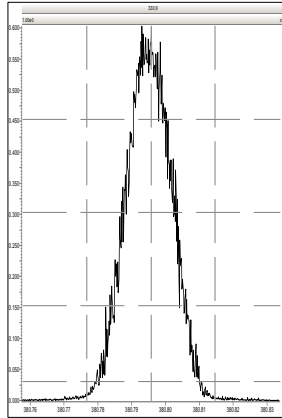
M 430.9728 R 10332



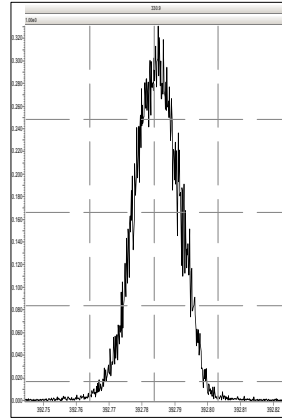
M 330.9792 R 13091



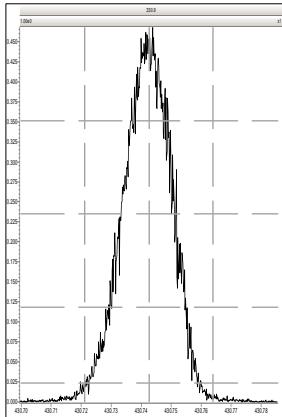
M 380.9760 R 13058



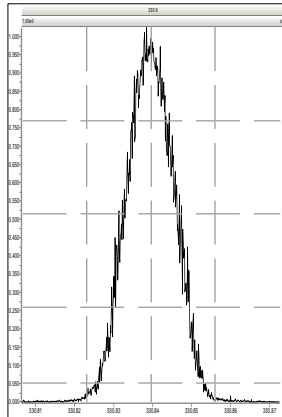
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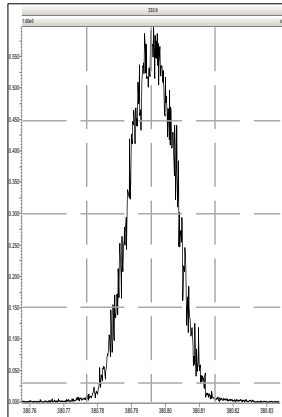
M 430.9728 R 11793



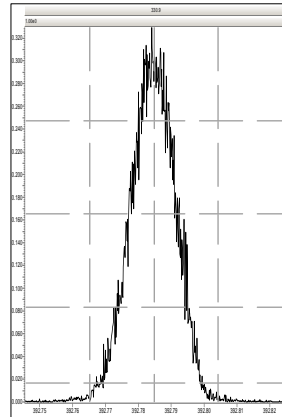
M 330.9792 R 12284



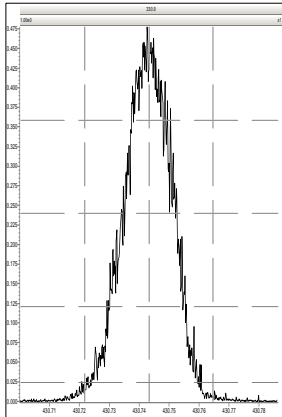
M 380.9760 R 12760



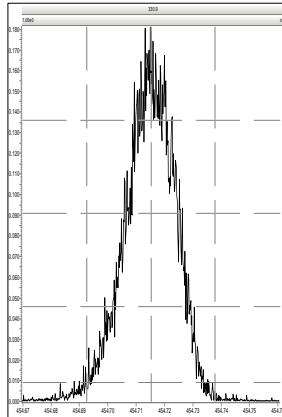
M 392.9760 R 13157



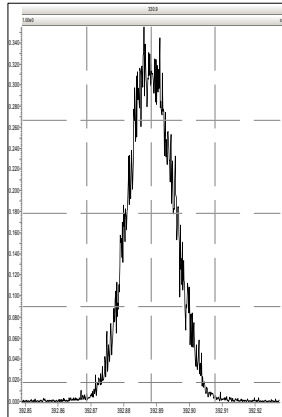
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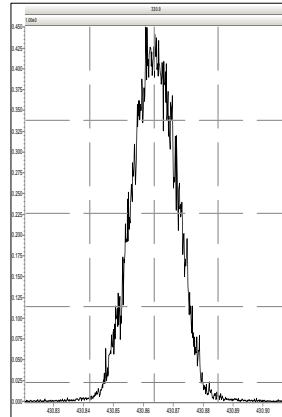
M 454.9728 R 11576



M 392.9760 R 12048

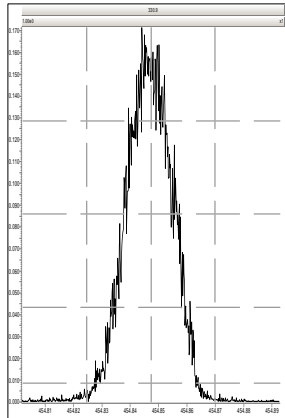


M 430.9728 R 13240

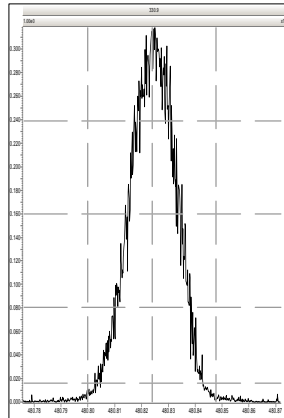


Printed: Wednesday, March 23, 2022 18:26:44 Pacific Daylight Time

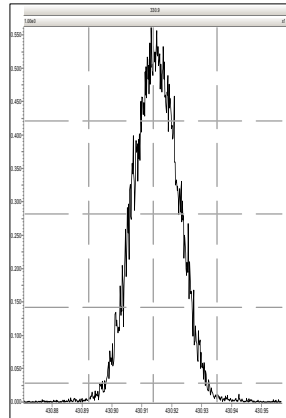
M 454.9728 R 13055



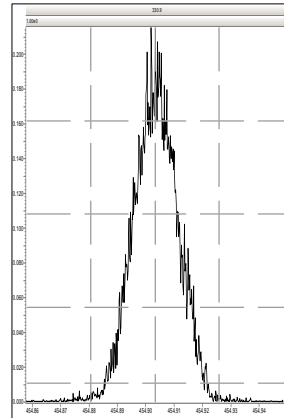
M 480.9696 R 12562



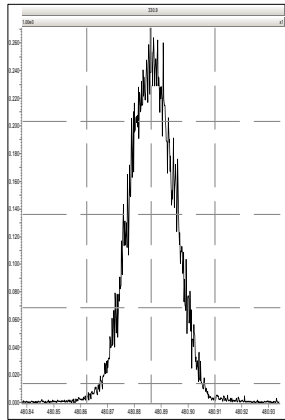
M 430.9728 R 12953



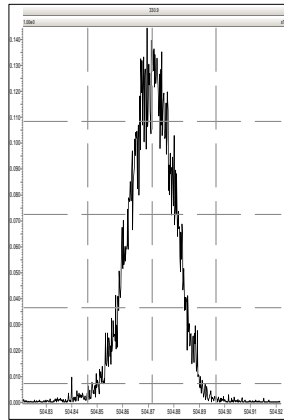
M 454.9728 R 13228



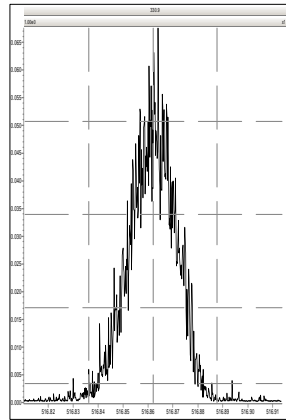
M 480.9696 R 13311



M 504.9696 R 13056



M 516.9697 R 12789

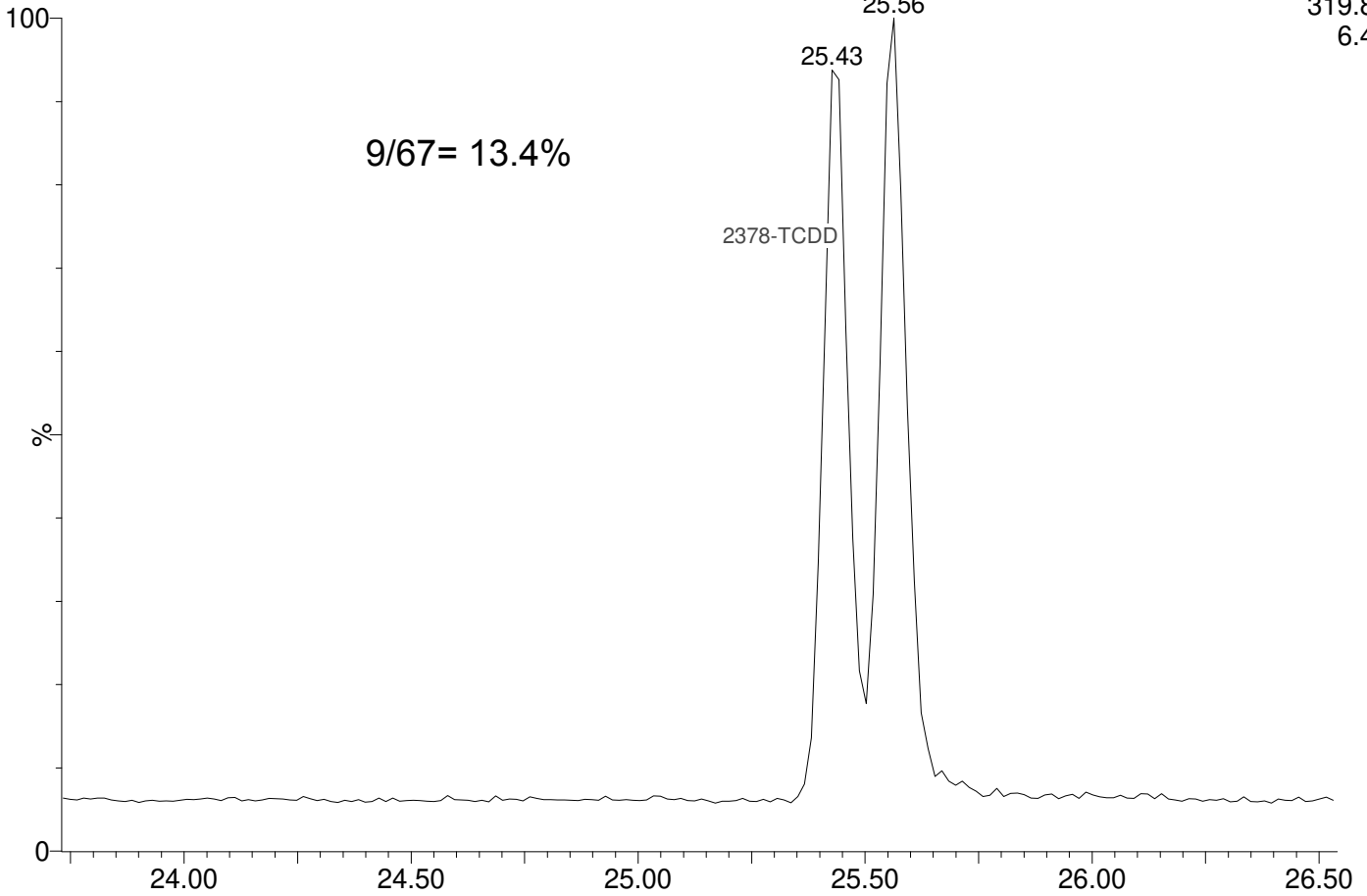


22032312

1: Voltage SIR 15 Channels EI+

319.8965

6.46e5

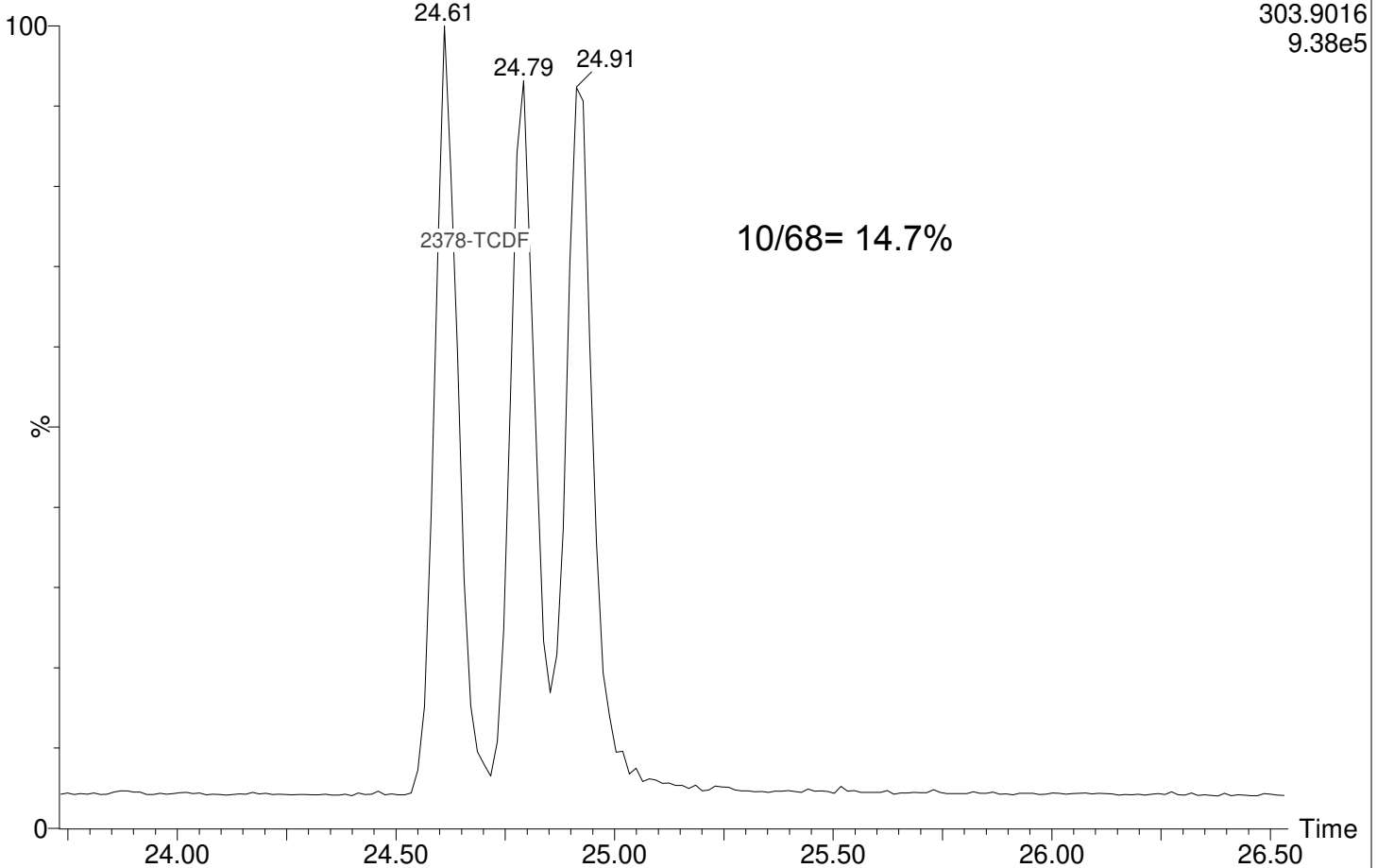


22032312

1: Voltage SIR 15 Channels EI+

303.9016

9.38e5





**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GB00010	Instrument:	AUTOSPEC01
Calibration Date:	02/01/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,3,7,8-TCDF			0.5	0.877532	2	0.8642547	10	0.9061172	40	0.8618622	200	0.870536
2,3,7,8-TCDD			0.5	1.33035	2	1.248621	10	1.137397	40	1.237049	200	1.228383
1,2,3,7,8-PeCDF	0.5	0.8845981	2.5	0.8294231	10	0.8519399	50	0.8286668	200	0.8328816	1000	0.8404146
2,3,4,7,8-PeCDF	0.5	0.9010853	2.5	0.8749834	10	0.9503804	50	0.9063511	200	0.9081631	1000	0.9261047
1,2,3,7,8-PeCDD	0.5	1.076975	2.5	1.101718	10	1.081557	50	1.083093	200	1.079692	1000	1.097073
1,2,3,4,7,8-HxCDF	0.5	1.197722	2.5	1.179021	10	1.141778	50	1.167137	200	1.188102	1000	1.216357
1,2,3,6,7,8-HxCDF	0.5	1.253033	2.5	1.219645	10	1.232591	50	1.230384	200	1.272527	1000	1.280106
2,3,4,6,7,8-HxCDF	0.5	1.220454	2.5	1.190231	10	1.230824	50	1.241416	200	1.24972	1000	1.240458
1,2,3,7,8,9-HxCDF	0.5	1.289076	2.5	1.125812	10	1.1524	50	1.182788	200	1.184457	1000	1.18469
1,2,3,4,7,8-HxCDD	0.5	0.980203	2.5	0.9572147	10	0.9836815	50	0.9739271	200	1.007401	1000	1.019376
1,2,3,6,7,8-HxCDD	0.5	1.134416	2.5	1.030295	10	0.9857061	50	1.001378	200	0.9828882	1000	0.9896475
1,2,3,7,8,9-HxCDD	0.5	1.002595	2.5	0.9852727	10	0.9574018	50	0.9845218	200	0.9780696	1000	1.005007
1,2,3,4,6,7,8-HpCDF	0.5	1.324418	2.5	1.241402	10	1.191769	50	1.137863	200	1.167606	1000	1.161655
1,2,3,4,7,8,9-HpCDF	0.5	1.241104	2.5	1.123881	10	1.176079	50	1.125517	200	1.167259	1000	1.157988
1,2,3,4,6,7,8-HpCDD	0.5	1.539399	2.5	1.221931	10	1.205401	50	1.160679	200	1.191041	1000	1.196962
OCDF	1	1.504532	5	1.206799	20	1.118843	100	1.047747	400	1.115678	2000	1.123986
OCDD			5	1.311834	20	1.098771	100	1.020503	400	1.035617	2000	1.04661
13C12-2,3,7,8-TCDF	100	1.794277	100	1.759625	100	1.739873	100	1.673566	100	1.790703	100	1.850313
13C12-2,3,7,8-TCDD	100	1.096674	100	1.073836	100	1.076512	100	1.133427	100	1.068055	100	1.169179
13C12-1,2,3,7,8-PeCDF	100	1.498324	100	1.483018	100	1.508724	100	1.460163	100	1.478051	100	1.734472
13C12-2,3,4,7,8-PeCDF	100	1.43808	100	1.438214	100	1.422382	100	1.41533	100	1.419969	100	1.663731
13C12-1,2,3,7,8-PeCDD	100	0.8950759	100	0.9011154	100	0.8899914	100	0.8624621	100	0.887379	100	1.048887
13C12-1,2,3,4,7,8-HxCDF	100	1.054544	100	1.077759	100	1.075116	100	1.061315	100	1.049772	100	1.003461
13C12-1,2,3,6,7,8-HxCDF	100	1.068197	100	1.101907	100	1.090557	100	1.088609	100	1.088766	100	1.041682
13C12-2,3,4,6,7,8-HxCDF	100	0.9969267	100	1.031453	100	1.020521	100	1.007653	100	1.020588	100	1.008816
13C12-1,2,3,7,8,9-HxCDF	100	0.9015813	100	0.9303539	100	0.9398705	100	0.9240461	100	0.9405347	100	0.9312132
13C12-1,2,3,4,7,8-HxCDD	100	0.9319648	100	0.9598064	100	0.9330427	100	0.9375516	100	0.9212584	100	0.9139779
13C12-1,2,3,6,7,8-HxCDD	100	0.9536719	100	0.9762285	100	0.9776812	100	0.9576787	100	0.9642386	100	0.9582641



**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GB00010	Instrument:	AUTOSPEC01
Calibration Date:	02/01/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
13C12-1,2,3,4,6,7,8-HpCDF	100	1.009495	100	1.017629	100	1.046802	100	1.034238	100	1.053933	100	1.054435
13C12-1,2,3,4,7,8,9-HpCDF	100	0.8702856	100	0.8813287	100	0.9193412	100	0.9336903	100	0.9100344	100	0.9149429
13C12-1,2,3,4,6,7,8-HpCDD	100	0.7540434	100	0.7706109	100	0.7896711	100	0.7862201	100	0.7996856	100	0.7916329
13C12-OCDD	200	0.7447514	200	0.7401513	200	0.7909367	200	0.7980945	200	0.8130205	200	0.8424516
37C14-2,3,7,8-TCDD	0.1	1.457715	0.5	1.244154	2	1.209026	10	1.112721	40	1.137195	200	1.239891
13C12-1,2,3,4-TCDD	100	1	100	1	100	1	100	1	100	1	100	1
13C12-1,2,3,7,8,9-HxCDD	100	1	100	1	100	1	100	1	100	1	100	1





**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GB00010	Instrument:	AUTOSPEC01
Calibration Date:	02/01/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2,3,7,8-TCDF	0.8760604	2.0			RSD ()	
2,3,7,8-TCDD	1.23636	5.6			RSD ()	
1,2,3,7,8-PeCDF	0.844654	2.5			RSD ()	
2,3,4,7,8-PeCDF	0.911178	2.8			RSD ()	
1,2,3,7,8-PeCDD	1.086685	0.9			RSD ()	
1,2,3,4,7,8-HxCDF	1.181686	2.2			RSD ()	
1,2,3,6,7,8-HxCDF	1.248048	2.0			RSD ()	
2,3,4,6,7,8-HxCDF	1.22885	1.7			RSD ()	
1,2,3,7,8,9-HxCDF	1.186537	4.7			RSD ()	
1,2,3,4,7,8-HxCDD	0.9869672	2.3			RSD ()	
1,2,3,6,7,8-HxCDD	1.020722	5.7			RSD ()	
1,2,3,7,8,9-HxCDD	0.985478	1.8			RSD ()	
1,2,3,4,6,7,8-HpCDF	1.204119	5.7			RSD ()	
1,2,3,4,7,8,9-HpCDF	1.165305	3.7			RSD ()	
1,2,3,4,6,7,8-HpCDD	1.252569	11.3			RSD ()	
OCDF	1.186264	13.8			RSD ()	
OCDD	1.102667	10.9			RSD ()	
13C12-2,3,7,8-TCDF	1.768059	3.4			RSD ()	
13C12-2,3,7,8-TCDD	1.102947	3.7			RSD ()	
13C12-1,2,3,7,8-PeCDF	1.527125	6.7			RSD ()	
13C12-2,3,4,7,8-PeCDF	1.466284	6.6			RSD ()	
13C12-1,2,3,7,8-PeCDD	0.9141518	7.4			RSD ()	
13C12-1,2,3,4,7,8-HxCDF	1.053661	2.6			RSD ()	
13C12-1,2,3,6,7,8-HxCDF	1.079953	2.0			RSD ()	
13C12-2,3,4,6,7,8-HxCDF	1.014326	1.2			RSD ()	
13C12-1,2,3,7,8,9-HxCDF	0.9279333	1.5			RSD ()	
13C12-1,2,3,4,7,8-HxCDD	0.9329336	1.7			RSD ()	
13C12-1,2,3,6,7,8-HxCDD	0.9646272	1.1			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDF	1.036089	1.8			RSD ()	
13C12-1,2,3,4,7,8,9-HpCDF	0.9049372	2.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDD	0.7819773	2.1			RSD ()	



**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GB00010	Instrument:	AUTOSPEC01
Calibration Date:	02/01/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
13C12-OCDD	0.7882343	5.0			RSD ()	
37C14-2,3,7,8-TCDD	1.23345	9.9			RSD ()	
13C12-1,2,3,4-TCDD	1	0.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDD	1	0.0			RSD ()	



ANALYSIS SEQUENCE

SLB0026

Instrument: AUTOSPEC01      HRGCMS Column ID: K11292  
Calibration ID: GB00010      Tune File: JAN3023  
EM Voltage: 350      Resolution check times : 11:48, 22:06

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLB0026-ICV1	CS3R1	QC		1	K009821		02/01/2023 10:37	23020102	PK	
SLB0026-RES1	ISCR1	QC		2	K003933		02/01/2023 13:02	23020103	PK	
SLB0026-CAL1	CSLCR	QC		3	I005460		02/01/2023 14:39	23020104	PK	
SLB0026-CAL2	CS1CR	QC		4	I005456		02/01/2023 15:28	23020105	PK	
SLB0026-CAL3	CS2CR	QC		5	I005457		02/01/2023 17:07	23020106	PK	
SLB0026-CAL4	CS3CR	QC		6	K009821		02/01/2023 17:56	23020107	PK	
SLB0026-CAL5	CS4CR	QC		7	I005458		02/01/2023 18:45	23020108	PK	
SLB0026-CAL6	CS5CR	QC		8	I005459		02/01/2023 19:34	23020109	PK	
SLB0026-SCV1	ICVCR	QC		9	H008219		02/01/2023 20:23	23020110	PK	
SLB0026-CCV1	CS3R2	QC		10	K009821		02/01/2023 21:12	23020111	PK	
SLB0026-RES2	ISCR2	QC		11	K003933		02/01/2023 22:06	23020112	PK	

Dataset: T:\Autospec\Processed Data Batch\230201ICIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:36:13 Pacific Standard Time

2/3/23 pk

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23020104, Compound:TF, RT:25.882	1
Peak deleted	Sample:23020104, Compound:TD, RT:26.532	1
Peak deleted	Sample:23020104, Compound:OD, RT:45.120	1
Peak deleted	Sample:23020109, Compound:TF, RT:27.273	6
Peak deleted	Sample:23020109, Compound:TF, RT:27.379	6
Peak deleted	Sample:23020108, Compound:PP, RT:27.107	5
Peak deleted	Sample:23020106, Compound:PF, RT:32.432	3
Peak deleted	Sample:23020108, Compound:HF, RT:33.335	5
Peak deleted	Sample:23020109, Compound:HF, RT:33.335	6
Peak deleted	Sample:23020108, Compound:TD, RT:27.122	5
Peak deleted	Sample:23020108, Compound:TD, RT:27.061	5
Peak deleted	Sample:23020109, Compound:TD, RT:27.107	6
Peak deleted	Sample:23020109, Compound:TD, RT:27.167	6
Peak deleted	Sample:23020104, Compound:HPD, RT:39.318	1
Peak deleted	Sample:23020105, Compound:HPD, RT:39.318	2
Peak deleted	Sample:23020106, Compound:HPD, RT:39.329	3
Peak deleted	Sample:23020108, Compound:HPD, RT:39.296	5
Peak deleted	Sample:23020109, Compound:HPD, RT:39.307	6
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230201ICIH.qld'	

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40**

**ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	1.633e4	2.121e4	0.876	0.770	0.770	844	1016	2.38e5	3.19e5	282.5	314.0	NO	bb	bb	8.996
12378-PeCDF	30.050	1.001	1.109e5	7.631e4	0.845	1.453	1.550	1249	1693	1.63e6	1.11e6	1307.7	657.1	NO	bb	bd	45.474
23478-PeCDF	31.387	1.001	1.159e5	7.903e4	0.911	1.467	1.550	1249	1693	1.77e6	1.19e6	1420.2	702.0	NO	bd	bd	46.006
123478-HxCDF	34.997	1.000	1.295e5	1.045e5	1.182	1.240	1.240	1714	1368	2.02e6	1.66e6	1181.4	1216.7	NO	bd	bd	43.803
234678-HxCDF	35.988	1.000	1.343e5	1.093e5	1.229	1.229	1.240	1714	1368	2.03e6	1.64e6	1185.6	1198.5	NO	bd	bb	45.575
123678-HxCDF	35.131	1.000	1.458e5	1.151e5	1.248	1.266	1.240	1714	1368	2.05e6	1.65e6	1195.7	1205.2	NO	db	dd	44.655
123789-HxCDF	37.025	1.001	1.158e5	9.218e4	1.187	1.257	1.240	1714	1368	1.74e6	1.39e6	1013.6	1013.7	NO	bb	bb	44.499
1234678-HpCDF	38.852	1.000	1.090e5	1.104e5	1.204	0.988	1.050	1381	2036	1.81e6	1.80e6	1312.8	883.5	NO	bb	bd	45.091
1234789-HpCDF	41.113	1.001	9.861e4	9.166e4	1.165	1.076	1.050	1381	2036	1.37e6	1.36e6	990.9	669.9	NO	bd	bb	47.733
OCDF	45.368	1.006	1.600e5	1.827e5	1.186	0.875	0.890	1512	1583	1.89e6	2.17e6	1249.6	1369.4	NO	bd	bd	86.348
2378-TCDD	26.532	1.001	1.602e4	2.106e4	1.236	0.761	0.770	1110	975	2.31e5	3.09e5	207.8	317.0	NO	bb	bd	7.999
12378-PeCDD	31.643	1.001	9.866e4	5.958e4	1.087	1.656	1.550	1646	1001	1.48e6	9.13e5	896.9	912.1	NO	bd	bb	49.739
123478-HxCDD	36.111	1.000	1.092e5	8.877e4	0.987	1.230	1.240	1547	1532	1.85e6	1.48e6	1198.0	965.8	NO	bd	bd	44.758
123678-HxCDD	36.234	1.001	1.208e5	9.232e4	1.021	1.308	1.240	1547	1532	1.90e6	1.47e6	1225.9	960.4	NO	db	db	43.840
123789-HxCDD	36.612	1.011	1.096e5	9.138e4	0.985	1.199	1.240	1547	1532	1.82e6	1.52e6	1178.1	989.3	NO	bb	bb	44.134
1234678-HpCDD	40.367	1.001	9.142e4	8.634e4	1.253	1.059	1.050	1287	1635	1.36e6	1.30e6	1055.7	793.5	NO	bd	bb	44.175
OCDD	45.130	1.000	1.558e5	1.797e5	1.103	0.867	0.890	1087	1881	1.97e6	2.25e6	1808.2	1195.6	NO	bb	bb	90.946
13C-2378-TCDF	25.867	1.006	2.092e5	2.671e5	1.768	0.783	0.770	1473	1226	3.13e6	4.02e6	2126.4	3281.6	NO	bb	bb	81.841
13C-12378-PeCDF	30.028	1.168	2.959e5	1.916e5	1.527	1.544	1.550	2999	2197	4.50e6	2.95e6	1498.8	1341.1	NO	bb	bb	96.965
13C-23478-PeCDF	31.365	1.220	2.816e5	1.834e5	1.466	1.535	1.550	2999	2197	4.34e6	2.84e6	1446.0	1290.5	NO	bb	bb	96.345
13C-123478-HxCDF	34.986	0.956	1.509e5	3.011e5	1.054	0.501	0.510	1539	2587	2.37e6	4.78e6	1539.0	1847.3	NO	bd	bd	88.697
13C-123678-HxCDF	35.119	0.960	1.595e5	3.087e5	1.080	0.517	0.510	1539	2587	2.51e6	4.86e6	1632.0	1878.9	NO	db	db	89.641
13C-234678-HxCDF	35.977	0.983	1.463e5	2.887e5	1.014	0.507	0.510	1539	2587	2.39e6	4.73e6	1553.6	1829.5	NO	bb	bb	88.660
13C-123789-HxCDF	37.002	1.011	1.315e5	2.625e5	0.928	0.501	0.510	1539	2587	2.16e6	4.40e6	1402.9	1699.3	NO	bb	bb	87.781
13C-1234678-HpCDF	38.841	1.062	1.240e5	2.800e5	1.036	0.443	0.440	1596	2193	2.11e6	4.68e6	1322.3	2133.9	NO	bb	bb	80.624
13C-1234789-HpCDF	41.091	1.123	1.084e5	2.336e5	0.905	0.464	0.440	1596	2193	1.58e6	3.44e6	991.3	1568.5	NO	bb	bb	78.158
13C-1234-TCDD	25.700	0.000	1.445e5	1.847e5	1.000	0.782	0.770	1667	873	2.18e6	2.81e6	1307.2	3212.9	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	1.635e5	2.114e5	1.103	0.774	0.770	1667	873	2.52e6	3.27e6	1513.3	3746.2	NO	bb	bb	103.258
13C-12378-PeCDD	31.621	1.230	1.783e5	1.145e5	0.914	1.557	1.550	940	1014	2.71e6	1.73e6	2879.6	1709.2	NO	bb	bb	97.286
13C-123478-HxCDD	36.100	0.987	2.492e5	1.989e5	0.933	1.253	1.240	1846	1567	4.13e6	3.30e6	2236.6	2103.6	NO	bd	bd	99.308
13C-123678-HxCDD	36.211	0.990	2.631e5	2.131e5	0.965	1.234	1.240	1846	1567	4.22e6	3.43e6	2285.9	2187.7	NO	db	db	102.074
13C-1234678-HpCDD	40.345	1.103	1.659e5	1.554e5	0.782	1.067	1.050	1641	1171	2.51e6	2.40e6	1529.6	2051.4	NO	bb	bb	84.947
13C-OCDD	45.111	1.233	3.174e5	3.517e5	0.788	0.903	0.890	3114	1814	4.07e6	4.46e6	1307.4	2459.0	NO	bb	bb	175.516
13C-123789-HxCDD	36.590	0.000	2.678e5	2.158e5	1.000	1.241	1.240	1846	1567	4.30e6	3.43e6	2331.6	2186.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	3.482e4		1.233			850		5.25e5		617.9			bb		8.577

Dataset: T:\Autospec\Processed Data Batch\230201IHOP.qld  
 Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time  
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ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	1.928e4	2.641e4	1.064	0.730	0.770	844	1016	3.12e5	4.35e5	369.4	427.9	NO	bb	bb	9.011
1289-TCDF	27.394	1.059	1.506e4	2.111e4	0.858	0.713	0.770	844	1016	2.15e5	3.01e5	254.4	296.4	NO	db	dd	8.854
13468-PECDF	27.243	0.907	1.732e5	1.184e5	1.013	1.464	1.550	906	933	2.67e6	1.81e6	2951.1	1944.9	NO	bb	bb	59.051
12389-PECDF	32.423	1.080	1.096e5	7.394e4	0.844	1.482	1.550	1249	1693	1.63e6	1.06e6	1301.6	627.3	NO	bb	bd	44.621
123468-HXCDF	33.337	0.953	1.333e5	1.071e5	1.197	1.245	1.240	1714	1368	1.94e6	1.63e6	1132.0	1192.1	NO	bb	bd	44.431
1368-TCDD	23.674	0.893	1.559e4	1.973e4	1.084	0.790	0.770	1110	975	2.48e5	3.06e5	223.8	314.1	NO	bb	bb	8.690
1289-TCDD	27.137	1.023	1.343e4	1.711e4	0.975	0.785	0.770	1110	975	2.02e5	2.57e5	181.6	263.1	NO	bb	bd	8.354
12479-PECDD	28.925	0.915	1.617e5	1.030e5	1.837	1.569	1.550	1646	1001	1.58e6	1.01e6	962.4	1010.4	NO	bb	bb	49.217
12389-PECDD	32.033	1.013	1.065e5	6.755e4	1.252	1.576	1.550	1646	1001	1.60e6	1.04e6	973.2	1039.9	NO	bb	bb	47.467
124679-HXCDD	34.117	0.945	1.151e5	9.437e4	1.033	1.219	1.240	1547	1532	1.82e6	1.49e6	1174.2	973.0	NO	bb	bb	45.255
1234679-HPCDD	39.309	0.974	9.857e4	9.267e4	1.286	1.064	1.050	1287	1635	1.62e6	1.55e6	1257.2	945.5	NO	bb	bb	46.288
Total-tetrafurans			5.067e4		0.933			844		7.65e5							26.861
Total-penta1			1.732e5					906		2.67e6							59.051
Total-pentafurans			3.556e5		0.866			1249		5.33e6							143.542
Total-hexafurans			6.587e5		1.208			1714		9.78e6							222.964
Total-heptafurans			2.076e5		1.185			1381		3.18e6							92.824
Total-Furans			1.606e6		1.067			844		2.36e7							631.589
Total-tetradioxins			7.564e4		1.099			1110		1.04e6							41.916
Total-pentadioxins			3.670e5		1.392			1646		4.67e6							146.491
Total-hexadioxins			4.546e5		1.007			1547		7.39e6							177.988
Total-heptadioxins			1.900e5		1.269			1287		2.98e6							90.463
Total-Dioxins			1.243e6		1.165			1110		1.80e7							547.804
Total-TEQ			2.849e6					1110		4.17e7							1179.393
FUNCTION1 PFK			6.977e5					215892		1.30e7							
FUNCTION2 PFK			7.329e6					149595		7.20e7							0.000
FUNCTION3 PFK			1.409e7					224809		7.00e7							0.000
FUNCTION4 PFK			7.505e3					156562		3.03e5							
FUNCTION5 PFK			1.269e4					142532		5.28e5							
FUNCTION1 HXCD...			3.884e2					838		8.06e3							0.000
FUNCTION1 HPCD...			3.094e2					854		6.24e3							0.000
FUNCTION2 HPCD...			4.137e2					755		7.38e3							0.000
FUNCTION3 OCDPE			2.422e2					659		4.44e3							0.000
FUNCTION4 NCDPE			2.399e2					738		4.58e3							0.000
FUNCTION5 DCDPE			0.000e0					686		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IHOP.qld  
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Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33

Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	1.506e4	2.111e4	0.858	0.71	0.77	254.4	YES	NO	db	dd	8.854
2	2378-TCDF	25.90	1.633e4	2.121e4	0.876	0.77	0.77	282.5	YES	NO	bb	bb	8.996
3	1368-TCDF	22.39	1.928e4	2.641e4	1.064	0.73	0.77	369.4	YES	NO	bb	bb	9.011

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	1.732e5	1.184e5	1.013	1.46	1.55	2951.1	YES	NO	bb	bb	59.051

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.42	1.096e5	7.394e4	0.844	1.48	1.55	1301.6	YES	NO	bb	bd	44.621
2	23478-PeCDF	31.39	1.159e5	7.903e4	0.911	1.47	1.55	1420.2	YES	NO	bd	bd	46.006
3	12378-PeCDF	30.05	1.109e5	7.631e4	0.845	1.45	1.55	1307.7	YES	NO	bb	bd	45.474
4	Total-pentafurans	28.90	1.918e4	1.152e4	0.866	1.67	1.55	232.8	YES	NO	bb	bb	7.440

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.99	1.343e5	1.093e5	1.229	1.23	1.24	1185.6	YES	NO	bd	bb	45.575
2	123678-HxCDF	35.13	1.458e5	1.151e5	1.248	1.27	1.24	1195.7	YES	NO	db	dd	44.655
3	123478-HxCDF	35.00	1.295e5	1.045e5	1.182	1.24	1.24	1181.4	YES	NO	bd	bd	43.803
4	123468-HxCDF	33.34	1.333e5	1.071e5	1.197	1.24	1.24	1132.0	YES	NO	bb	bd	44.431
5	123789-HxCDF	37.02	1.158e5	9.218e4	1.187	1.26	1.24	1013.6	YES	NO	bb	bb	44.499

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	9.861e4	9.166e4	1.165	1.08	1.05	990.9	YES	NO	bd	bb	47.733
2	1234678-HpCDF	38.85	1.090e5	1.104e5	1.204	0.99	1.05	1312.8	YES	NO	bb	bd	45.091

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	1.506e4	2.111e4	0.858	0.71	0.77	254.4	YES	NO	db	dd	8.854
2	2378-TCDF	25.90	1.633e4	2.121e4	0.876	0.77	0.77	282.5	YES	NO	bb	bb	8.996
3	1368-TCDF	22.39	1.928e4	2.641e4	1.064	0.73	0.77	369.4	YES	NO	bb	bb	9.011
4	12389-PECDF	32.42	1.096e5	7.394e4	0.844	1.48	1.55	1301.6	YES	NO	bb	bd	44.621
5	23478-PeCDF	31.39	1.159e5	7.903e4	0.911	1.47	1.55	1420.2	YES	NO	bd	bd	46.006
6	12378-PeCDF	30.05	1.109e5	7.631e4	0.845	1.45	1.55	1307.7	YES	NO	bb	bd	45.474
7	Total-pentafurans	28.90	1.918e4	1.152e4	0.866	1.67	1.55	232.8	YES	NO	bb	bb	7.440
8	234678-HxCDF	35.99	1.343e5	1.093e5	1.229	1.23	1.24	1185.6	YES	NO	bd	bb	45.575
9	123678-HxCDF	35.13	1.458e5	1.151e5	1.248	1.27	1.24	1195.7	YES	NO	db	dd	44.655
10	123478-HxCDF	35.00	1.295e5	1.045e5	1.182	1.24	1.24	1181.4	YES	NO	bd	bd	43.803
11	123468-HxCDF	33.34	1.333e5	1.071e5	1.197	1.24	1.24	1132.0	YES	NO	bb	bd	44.431
12	123789-HxCDF	37.02	1.158e5	9.218e4	1.187	1.26	1.24	1013.6	YES	NO	bb	bb	44.499
13	1234789-HpCDF	41.11	9.861e4	9.166e4	1.165	1.08	1.05	990.9	YES	NO	bd	bb	47.733
14	1234678-HpCDF	38.85	1.090e5	1.104e5	1.204	0.99	1.05	1312.8	YES	NO	bb	bd	45.091
15	OCDF	45.37	1.600e5	1.827e5	1.186	0.88	0.89	1249.6	YES	NO	bd	bd	86.348
16	13468-PECDF	27.24	1.732e5	1.184e5	1.013	1.46	1.55	2951.1	YES	NO	bb	bb	59.051

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.67	1.559e4	1.973e4	1.084	0.79	0.77	223.8	YES	NO	bb	bb	8.690
2	1289-TCDD	27.14	1.343e4	1.711e4	0.975	0.79	0.77	181.6	YES	NO	bb	bd	8.354
3	2378-TCDD	26.53	1.602e4	2.106e4	1.236	0.76	0.77	207.8	YES	NO	bb	bd	7.999
4	Total-tetradoxins	26.21	2.312e4	2.981e4	1.099	0.78	0.77	216.6	YES	NO	bb	bb	12.852
5	Total-tetradoxins	25.73	7.468e3	9.090e3	1.099	0.82	0.77	105.7	YES	NO	bb	bb	4.020

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	1.065e5	6.755e4	1.252	1.58	1.55	973.2	YES	NO	bb	bb	47.467
2	Total-pentadoxins	31.87	1.652e2	1.080e2	1.392	1.53	1.55	3.2	YES	NO	db	bb	0.067
3	12378-PeCDD	31.64	9.866e4	5.958e4	1.087	1.66	1.55	896.9	YES	NO	bd	bb	49.739
4	12479-PECDD	28.92	1.617e5	1.030e5	1.837	1.57	1.55	962.4	YES	NO	bb	bb	49.217



Dataset: T:\Autospec\Processed Data Batch\230201HOP.qld

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## HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	1.096e5	9.138e4	0.985	1.20	1.24	1178.1	YES	NO	bb	bb	44.134
2	123678-HxCDD	36.23	1.208e5	9.232e4	1.021	1.31	1.24	1225.9	YES	NO	db	db	43.840
3	123478-HxCDD	36.11	1.092e5	8.877e4	0.987	1.23	1.24	1198.0	YES	NO	bd	bd	44.758
4	124679-HXCDD	34.12	1.151e5	9.437e4	1.033	1.22	1.24	1174.2	YES	NO	bb	bb	45.255

## HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	9.142e4	8.634e4	1.253	1.06	1.05	1055.7	YES	NO	bd	bb	44.175
2	1234679-HPCDD	39.31	9.857e4	9.267e4	1.286	1.06	1.05	1257.2	YES	NO	bb	bb	46.288

## Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.67	1.559e4	1.973e4	1.084	0.79	0.77	223.8	YES	NO	bb	bb	8.690
2	1289-TCDD	27.14	1.343e4	1.711e4	0.975	0.79	0.77	181.6	YES	NO	bb	bd	8.354
3	2378-TCDD	26.53	1.602e4	2.106e4	1.236	0.76	0.77	207.8	YES	NO	bb	bd	7.999
4	Total-tetradoxins	26.21	2.312e4	2.981e4	1.099	0.78	0.77	216.6	YES	NO	bb	bb	12.852
5	Total-tetradoxins	25.73	7.468e3	9.090e3	1.099	0.82	0.77	105.7	YES	NO	bb	bb	4.020
6	12389-PECDD	32.03	1.065e5	6.755e4	1.252	1.58	1.55	973.2	YES	NO	bb	bb	47.467
7	Total-pentadoxins	31.87	1.652e2	1.080e2	1.392	1.53	1.55	3.2	YES	NO	db	bb	0.067
8	12378-PeCDD	31.64	9.866e4	5.958e4	1.087	1.66	1.55	896.9	YES	NO	bd	bb	49.739
9	12479-PECDD	28.92	1.617e5	1.030e5	1.837	1.57	1.55	962.4	YES	NO	bb	bb	49.217
10	123789-HxCDD	36.61	1.096e5	9.138e4	0.985	1.20	1.24	1178.1	YES	NO	bb	bb	44.134
11	123678-HxCDD	36.23	1.208e5	9.232e4	1.021	1.31	1.24	1225.9	YES	NO	db	db	43.840
12	123478-HxCDD	36.11	1.092e5	8.877e4	0.987	1.23	1.24	1198.0	YES	NO	bd	bd	44.758
13	124679-HXCDD	34.12	1.151e5	9.437e4	1.033	1.22	1.24	1174.2	YES	NO	bb	bb	45.255
14	1234678-HpCDD	40.37	9.142e4	8.634e4	1.253	1.06	1.05	1055.7	YES	NO	bd	bb	44.175
15	1234679-HPCDD	39.31	9.857e4	9.267e4	1.286	1.06	1.05	1257.2	YES	NO	bb	bb	46.288
16	OCDD	45.13	1.558e5	1.797e5	1.103	0.87	0.89	1808.2	YES	NO	bb	bb	90.946

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.39	1.506e4	2.111e4	0.858	0.71	0.77	254.4	YES	NO	db	dd	8.854
2	2378-TCDF	25.90	1.633e4	2.121e4	0.876	0.77	0.77	282.5	YES	NO	bb	bb	8.996
3	1368-TCDF	22.39	1.928e4	2.641e4	1.064	0.73	0.77	369.4	YES	NO	bb	bb	9.011
4	12389-PECDF	32.42	1.096e5	7.394e4	0.844	1.48	1.55	1301.6	YES	NO	bb	bd	44.621
5	23478-PeCDF	31.39	1.159e5	7.903e4	0.911	1.47	1.55	1420.2	YES	NO	bd	bd	46.006
6	12378-PeCDF	30.05	1.109e5	7.631e4	0.845	1.45	1.55	1307.7	YES	NO	bb	bd	45.474
7	Total-pentafurans	28.90	1.918e4	1.152e4	0.866	1.67	1.55	232.8	YES	NO	bb	bb	7.440
8	234678-HxCDF	35.99	1.343e5	1.093e5	1.229	1.23	1.24	1185.6	YES	NO	bd	bb	45.575
9	123678-HxCDF	35.13	1.458e5	1.151e5	1.248	1.27	1.24	1195.7	YES	NO	db	dd	44.655
10	123478-HxCDF	35.00	1.295e5	1.045e5	1.182	1.24	1.24	1181.4	YES	NO	bd	bd	43.803
11	123468-HXCDF	33.34	1.333e5	1.071e5	1.197	1.24	1.24	1132.0	YES	NO	bb	bd	44.431
12	123789-HxCDF	37.02	1.158e5	9.218e4	1.187	1.26	1.24	1013.6	YES	NO	bb	bb	44.499
13	1234789-HpCDF	41.11	9.861e4	9.166e4	1.165	1.08	1.05	990.9	YES	NO	bd	bb	47.733
14	1234678-HpCDF	38.85	1.090e5	1.104e5	1.204	0.99	1.05	1312.8	YES	NO	bb	bd	45.091
15	OCDF	45.37	1.600e5	1.827e5	1.186	0.88	0.89	1249.6	YES	NO	bd	bd	86.348
16	13468-PECDF	27.24	1.732e5	1.184e5	1.013	1.46	1.55	2951.1	YES	NO	bb	bb	59.051
17	1368-TCDD	23.67	1.559e4	1.973e4	1.084	0.79	0.77	223.8	YES	NO	bb	bb	8.690
18	1289-TCDD	27.14	1.343e4	1.711e4	0.975	0.79	0.77	181.6	YES	NO	bb	bd	8.354
19	2378-TCDD	26.53	1.602e4	2.106e4	1.236	0.76	0.77	207.8	YES	NO	bb	bd	7.999
20	Total-tetradiioxins	26.21	2.312e4	2.981e4	1.099	0.78	0.77	216.6	YES	NO	bb	bb	12.852
21	Total-tetradiioxins	25.73	7.468e3	9.090e3	1.099	0.82	0.77	105.7	YES	NO	bb	bb	4.020
22	12389-PECDD	32.03	1.065e5	6.755e4	1.252	1.58	1.55	973.2	YES	NO	bb	bb	47.467
23	Total-pentadiioxins	31.87	1.652e2	1.080e2	1.392	1.53	1.55	3.2	YES	NO	db	bb	0.067
24	12378-PeCDD	31.64	9.866e4	5.958e4	1.087	1.66	1.55	896.9	YES	NO	bd	bb	49.739
25	12479-PECDD	28.92	1.617e5	1.030e5	1.837	1.57	1.55	962.4	YES	NO	bb	bb	49.217
26	123789-HxCDD	36.61	1.096e5	9.138e4	0.985	1.20	1.24	1178.1	YES	NO	bb	bb	44.134
27	123678-HxCDD	36.23	1.208e5	9.232e4	1.021	1.31	1.24	1225.9	YES	NO	db	db	43.840
28	123478-HxCDD	36.11	1.092e5	8.877e4	0.987	1.23	1.24	1198.0	YES	NO	bd	bd	44.758
29	124679-HXCDD	34.12	1.151e5	9.437e4	1.033	1.22	1.24	1174.2	YES	NO	bb	bb	45.255
30	1234678-HpCDD	40.37	9.142e4	8.634e4	1.253	1.06	1.05	1055.7	YES	NO	bd	bb	44.175
31	1234679-HPCDD	39.31	9.857e4	9.267e4	1.286	1.06	1.05	1257.2	YES	NO	bb	bb	46.288
32	OCDD	45.13	1.558e5	1.797e5	1.103	0.87	0.89	1808.2	YES	NO	bb	bb	90.946

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IHOP.qld  
 Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time  
 Printed: Friday, February 03, 2023 11:21:40 Pacific Standard Time

**ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk**

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.12	9.025e3					1.5	NO		bb		
2	FUNCTION1 PFK	23.39	1.564e4					1.7	NO		db		
3	FUNCTION1 PFK	23.33	1.699e4					1.8	NO		dd		
4	FUNCTION1 PFK	23.21	3.674e4					1.8	NO		dd		
5	FUNCTION1 PFK	23.15	1.668e4					1.7	NO		bd		
6	FUNCTION1 PFK	23.07	1.606e4					2.1	NO		bb		
7	FUNCTION1 PFK	22.69	6.506e3					1.1	NO		db		
8	FUNCTION1 PFK	22.57	5.324e4					2.0	NO		bd		
9	FUNCTION1 PFK	22.46	2.047e3					0.6	NO		bb		
10	FUNCTION1 PFK	22.18	2.854e4					1.8	NO		bb		
11	FUNCTION1 PFK	22.00	2.061e4					1.1	NO		bb		
12	FUNCTION1 PFK	21.88	1.276e3					0.4	NO		bb		
13	FUNCTION1 PFK	21.48	1.972e3					0.6	NO		bb		
14	FUNCTION1 PFK	21.36	4.333e4					3.4	YES		db		
15	FUNCTION1 PFK	21.33	3.930e4					3.3	YES		dd		
16	FUNCTION1 PFK	21.25	3.950e4					3.7	YES		dd		
17	FUNCTION1 PFK	21.22	1.839e4					1.7	NO		bd		
18	FUNCTION1 PFK	26.44	2.008e3					0.6	NO		bb		
19	FUNCTION1 PFK	26.37	1.096e4					1.2	NO		bb		
20	FUNCTION1 PFK	26.06	5.687e3					0.8	NO		bb		
21	FUNCTION1 PFK	25.85	4.606e4					2.0	NO		bb		
22	FUNCTION1 PFK	25.67	1.822e4					1.6	NO		db		
23	FUNCTION1 PFK	25.59	5.429e3					0.7	NO		bd		
24	FUNCTION1 PFK	25.41	3.678e3					0.7	NO		bb		
25	FUNCTION1 PFK	25.35	1.804e3					0.6	NO		bb		
26	FUNCTION1 PFK	24.69	1.276e4					1.4	NO		bb		
27	FUNCTION1 PFK	24.46	1.415e3					0.4	NO		bb		
28	FUNCTION1 PFK	24.23	1.486e4					1.4	NO		db		
29	FUNCTION1 PFK	24.16	3.220e4					2.1	NO		dd		
30	FUNCTION1 PFK	24.07	1.916e4					1.5	NO		bd		
31	FUNCTION1 PFK	23.86	1.041e4					1.2	NO		bb		
32	FUNCTION1 PFK	23.75	2.252e4					1.8	NO		bb		
33	FUNCTION1 PFK	23.46	2.488e3					0.5	NO		bb		
34	FUNCTION1 PFK	28.21	1.683e4					1.3	NO		bb		
35	FUNCTION1 PFK	28.13	1.846e4					1.2	NO		db		
36	FUNCTION1 PFK	27.97	3.589e4					1.9	NO		bd		
37	FUNCTION1 PFK	27.85	3.272e3					0.6	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IHOP.qld

Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time

Printed: Friday, February 03, 2023 11:21:40 Pacific Standard Time

**ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	27.55	1.459e3					0.4	NO		bb		
39	FUNCTION1 PFK	27.48	1.620e3					0.5	NO		bb		
40	FUNCTION1 PFK	27.36	8.182e3					1.0	NO		bb		
41	FUNCTION1 PFK	27.27	3.811e3					0.8	NO		db		
42	FUNCTION1 PFK	27.24	6.329e3					0.8	NO		bd		
43	FUNCTION1 PFK	27.03	6.469e3					1.1	NO		db		
44	FUNCTION1 PFK	26.99	1.869e4					1.7	NO		bd		
45	FUNCTION1 PFK	26.88	1.188e3					0.4	NO		bb		

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201IHOP.qld

Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time

Printed: Friday, February 03, 2023 11:21:40 Pacific Standard Time

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

## PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.61	1.089e6					38.3	YES		dd		0.000
2	FUNCTION2 PFK	28.42	5.461e5					42.0	YES		dd		0.000
3	FUNCTION2 PFK	28.36	4.208e5					43.0	YES		bd		0.000
4	FUNCTION2 PFK	30.22	3.292e4					7.2	YES		dd		0.000
5	FUNCTION2 PFK	30.16	1.231e5					8.8	YES		dd		0.000
6	FUNCTION2 PFK	30.05	1.117e5					10.9	YES		dd		0.000
7	FUNCTION2 PFK	29.99	9.120e4					11.4	YES		dd		0.000
8	FUNCTION2 PFK	29.94	2.092e5					12.7	YES		dd		0.000
9	FUNCTION2 PFK	29.76	2.907e5					15.9	YES		dd		0.000
10	FUNCTION2 PFK	29.69	1.383e5					17.3	YES		dd		0.000
11	FUNCTION2 PFK	29.58	3.090e5					19.5	YES		dd		0.000
12	FUNCTION2 PFK	29.52	2.750e5					21.8	YES		dd		0.000
13	FUNCTION2 PFK	29.39	4.070e5					23.3	YES		dd		0.000
14	FUNCTION2 PFK	29.28	4.078e5					25.5	YES		dd		0.000
15	FUNCTION2 PFK	29.18	3.023e5					27.3	YES		dd		0.000
16	FUNCTION2 PFK	29.14	2.357e5					29.1	YES		dd		0.000
17	FUNCTION2 PFK	28.99	6.311e5					30.4	YES		dd		0.000
18	FUNCTION2 PFK	28.92	2.637e5					32.6	YES		dd		0.000
19	FUNCTION2 PFK	28.71	1.202e6					36.5	YES		dd		0.000
20	FUNCTION2 PFK	32.81	9.753e3					1.3	NO		bb		0.000
21	FUNCTION2 PFK	32.42	4.488e3					1.0	NO		db		0.000
22	FUNCTION2 PFK	32.38	3.779e3					1.0	NO		bd		0.000
23	FUNCTION2 PFK	31.96	1.738e4					2.2	NO		bb		0.000
24	FUNCTION2 PFK	31.88	6.239e3					1.5	NO		db		0.000
25	FUNCTION2 PFK	31.82	6.444e3					1.4	NO		bd		0.000
26	FUNCTION2 PFK	31.71	6.215e3					1.3	NO		db		0.000
27	FUNCTION2 PFK	31.68	5.289e3					1.0	NO		bd		0.000
28	FUNCTION2 PFK	31.61	3.799e3					1.0	NO		bb		0.000
29	FUNCTION2 PFK	31.29	5.305e3					1.2	NO		bb		0.000
30	FUNCTION2 PFK	31.23	7.886e3					2.2	NO		bb		0.000
31	FUNCTION2 PFK	30.99	1.453e4					1.9	NO		bb		0.000
32	FUNCTION2 PFK	30.82	9.920e3					1.5	NO		bb		0.000
33	FUNCTION2 PFK	30.75	8.792e3					1.2	NO		bb		0.000
34	FUNCTION2 PFK	30.57	3.072e3					0.9	NO		bb		0.000
35	FUNCTION2 PFK	30.26	1.206e5					6.2	YES		db		0.000
36	FUNCTION2 PFK	32.91	8.369e3					1.2	NO		bb		0.000

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.94	1.363e3					0.5	NO		bb		0.000
2	FUNCTION3 PFK	36.89	2.597e3					0.7	NO		bb		0.000
3	FUNCTION3 PFK	36.63	5.216e4					2.1	NO		bb		0.000
4	FUNCTION3 PFK	35.98	3.727e4					3.2	YES		bb		0.000
5	FUNCTION3 PFK	35.89	8.881e3					1.2	NO		bb		0.000
6	FUNCTION3 PFK	35.60	1.234e3					0.5	NO		bb		0.000
7	FUNCTION3 PFK	34.97	3.658e3					1.5	NO		bb		0.000
8	FUNCTION3 PFK	34.76	1.198e4					1.2	NO		bb		0.000
9	FUNCTION3 PFK	34.41	7.167e5					12.6	YES		db		0.000
10	FUNCTION3 PFK	34.27	1.814e5					18.8	YES		dd		0.000
11	FUNCTION3 PFK	33.46	8.929e6					56.3	YES		dd		0.000
12	FUNCTION3 PFK	33.26	1.470e6					65.1	YES		dd		0.000
13	FUNCTION3 PFK	33.14	1.013e6					69.2	YES		dd		0.000
14	FUNCTION3 PFK	33.07	1.616e6					73.1	YES		bd		0.000
15	FUNCTION3 PFK	37.87	2.660e3					0.7	NO		bb		0.000
16	FUNCTION3 PFK	37.70	1.990e4					1.9	NO		bb		0.000
17	FUNCTION3 PFK	37.50	4.098e3					0.8	NO		bb		0.000
18	FUNCTION3 PFK	37.39	4.630e3					0.7	NO		bb		0.000
19	FUNCTION3 PFK	37.31	1.274e4					1.3	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.07	7.505e3					1.9	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.80	5.683e3					1.8	NO		bb		
2	FUNCTION5 PFK	43.45	7.005e3					1.9	NO		bb		

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	28.15	7.677e1					2.2	NO		bb		0.000
2	FUNCTION1 HXCD...	27.41	8.186e1					1.7	NO		bb		0.000
3	FUNCTION1 HXCD...	26.21	8.899e1					2.8	NO		bb		0.000
4	FUNCTION1 HXCD...	24.48	1.408e2					2.9	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	25.28	8.635e1					2.2	NO		bb		0.000
2	FUNCTION1 HPCD...	24.58	7.600e1					1.7	NO		bb		0.000
3	FUNCTION1 HPCD...	22.57	1.471e2					3.3	YES		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.97	1.041e2					2.4	NO		bb		0.000
2	FUNCTION2 HPCD...	31.62	1.168e2					2.5	NO		bb		0.000
3	FUNCTION2 HPCD...	31.26	1.928e2					4.9	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.10	7.435e1					2.4	NO		bb		0.000
2	FUNCTION3 OCDPE	35.85	7.444e1					2.1	NO		bb		0.000
3	FUNCTION3 OCDPE	35.30	9.337e1					2.3	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.04	7.794e1					1.9	NO		bb		0.000
2	FUNCTION4 NCDPE	41.07	7.754e1					1.8	NO		bb		0.000
3	FUNCTION4 NCDPE	39.75	8.441e1					2.5	NO		bb		0.000

**ETHERS6**

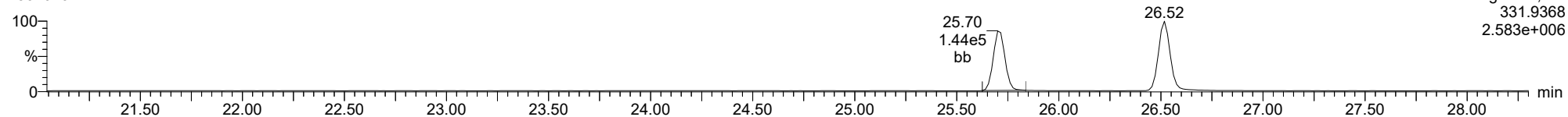
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1													

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
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ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

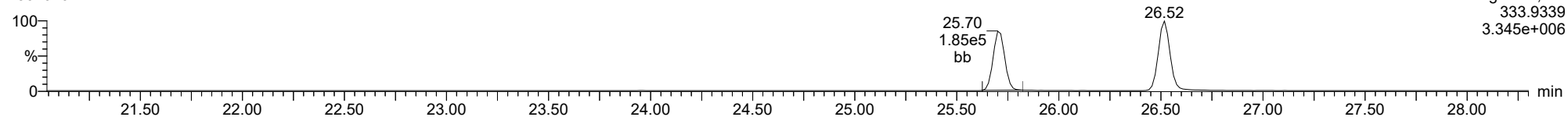
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23020102



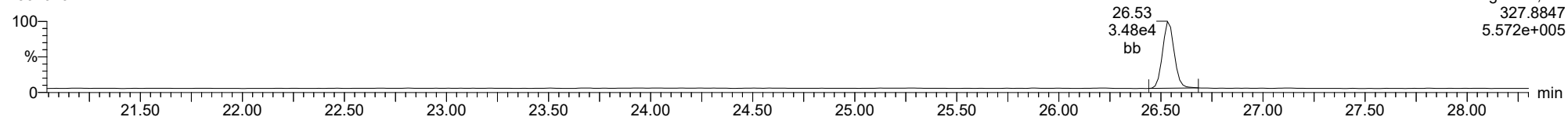
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23020102



**37CL-2378-TCDD**

23020102

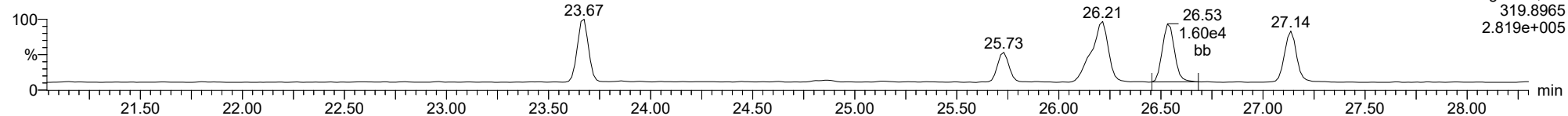




ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

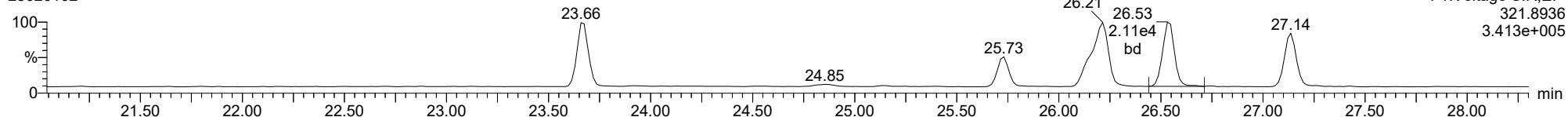
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F1:Voltage SIR,EI+  
319.8965  
2.819e+005

**2378-TCDD**

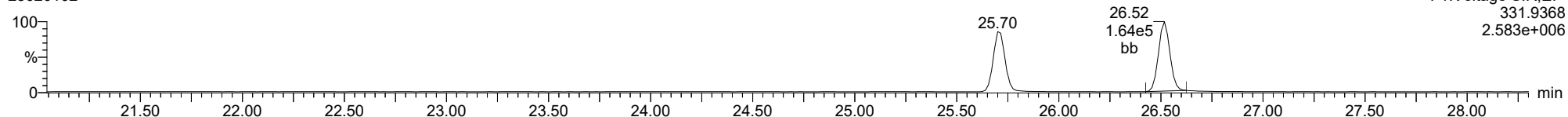
23020102



F1:Voltage SIR,EI+  
321.8936  
3.413e+005

**13C-2378-TCDD**

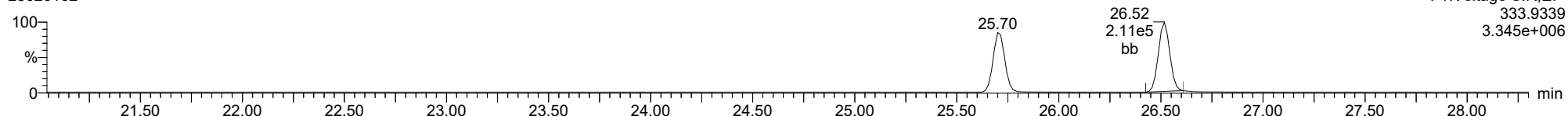
23020102



F1:Voltage SIR,EI+  
331.9368  
2.583e+006

**13C-2378-TCDD**

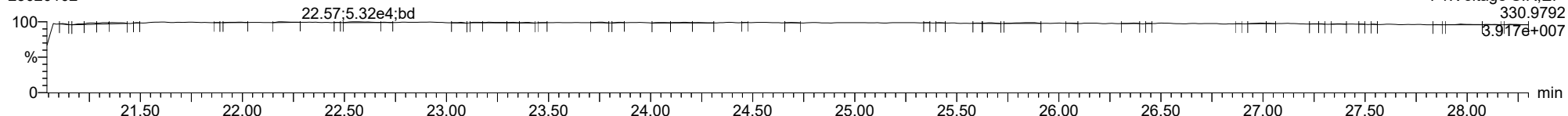
23020102



F1:Voltage SIR,EI+  
333.9339  
3.345e+006

**FUNCTION1 PFK**

23020102

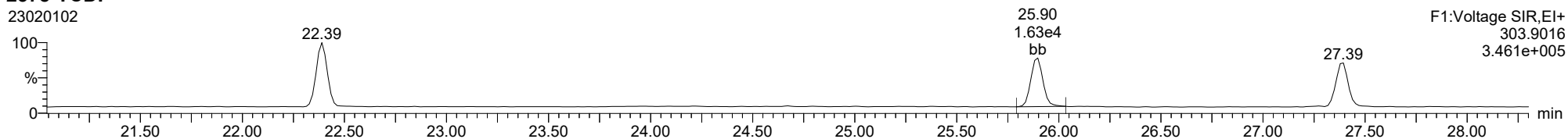


F1:Voltage SIR,EI+  
330.9792  
3.917e+007

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

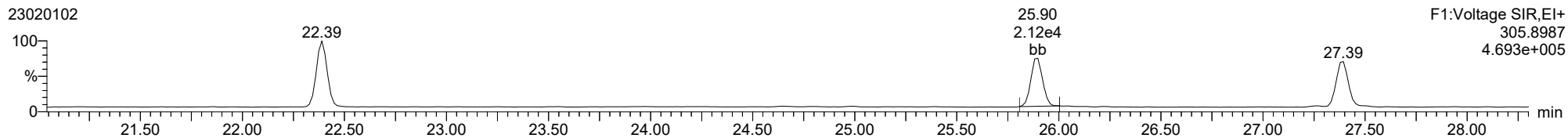
**2378-TCDF**

23020102



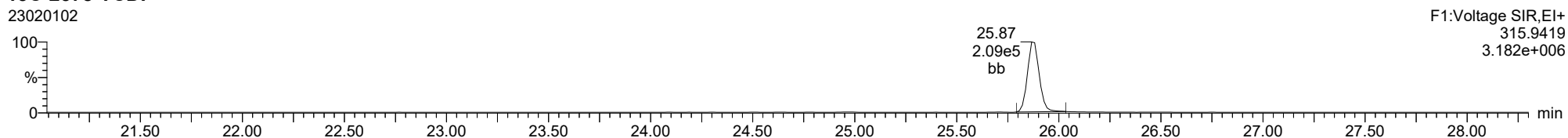
**2378-TCDF**

23020102



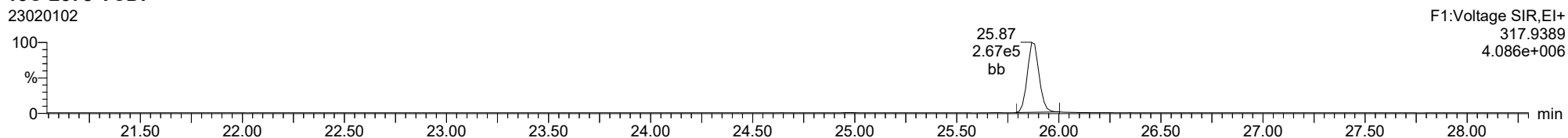
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23020102



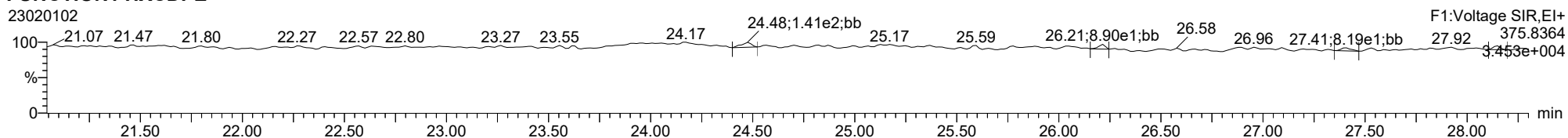
**13C-2378-TCDF**

23020102



**FUNCTION1 HXCDPE**

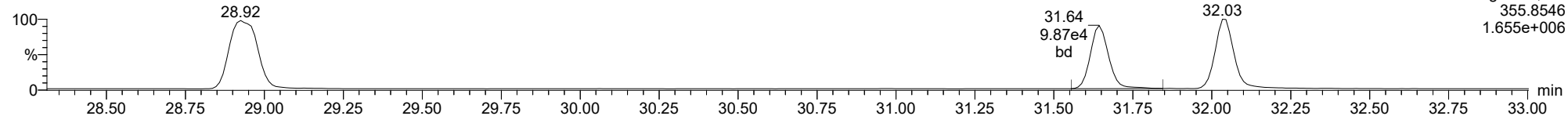
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

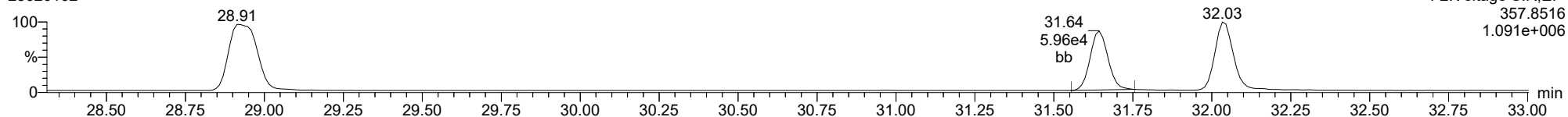
23020102



F2:Voltage SIR,El+  
355.8546  
1.655e+006

**12378-PeCDD**

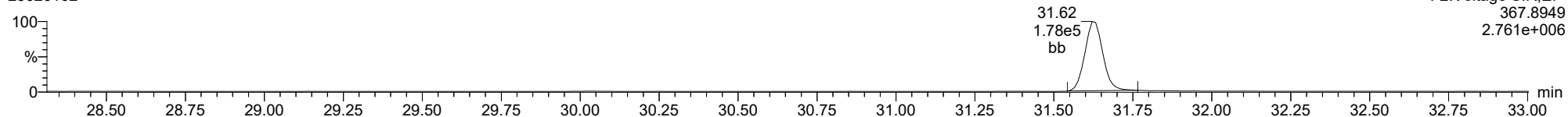
23020102



F2:Voltage SIR,El+  
357.8516  
1.091e+006

**13C-12378-PeCDD**

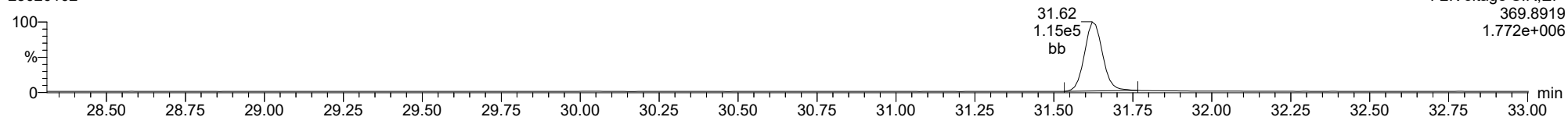
23020102



F2:Voltage SIR,El+  
367.8949  
2.761e+006

**13C-12378-PeCDD**

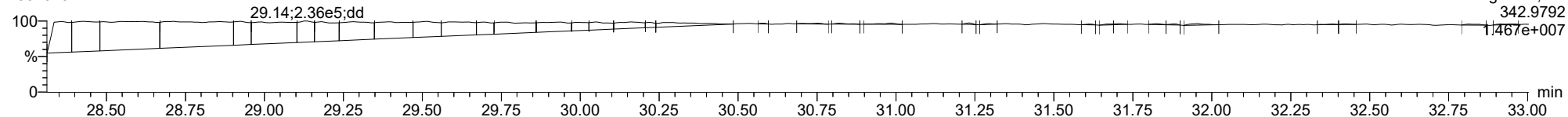
23020102



F2:Voltage SIR,El+  
369.8919  
1.772e+006

**FUNCTION2 PFK**

23020102

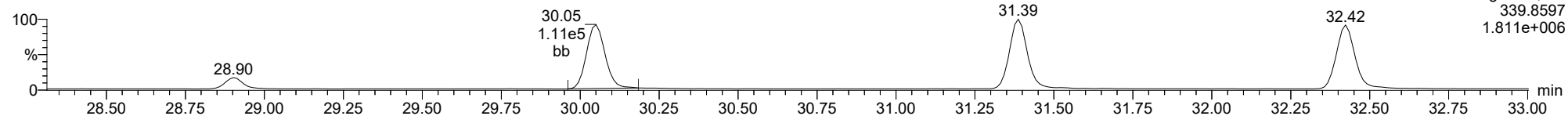


F2:Voltage SIR,El+  
342.9792  
1.467e+007

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

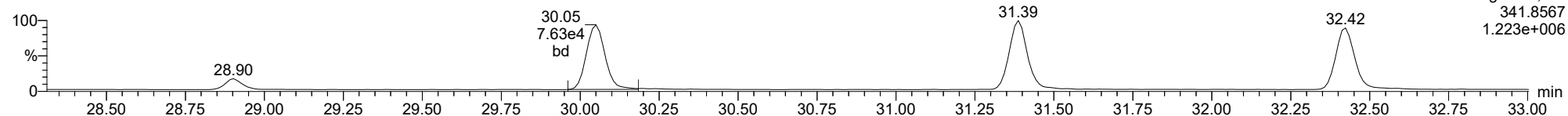
**12378-PeCDF**

23020102



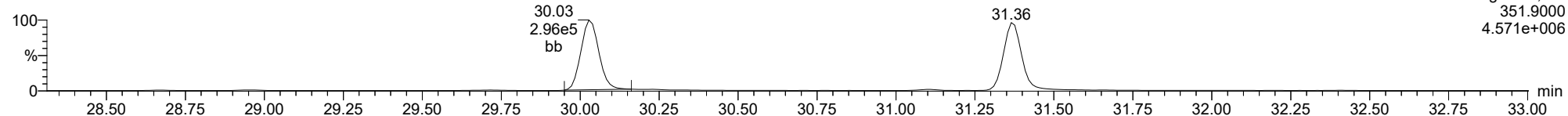
**12378-PeCDF**

23020102



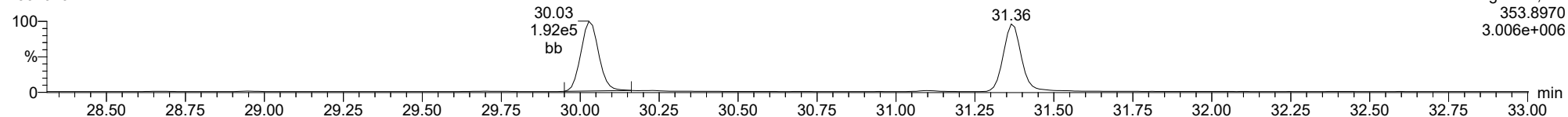
**13C-12378-PeCDF**

23020102



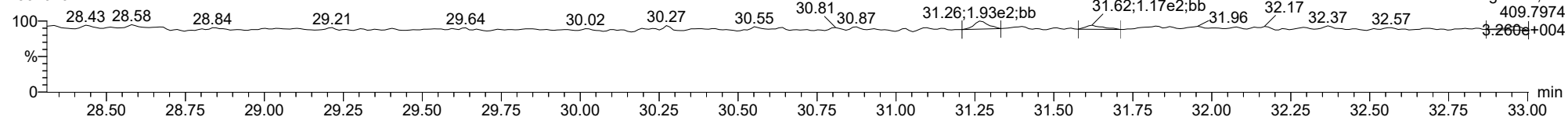
**13C-12378-PeCDF**

23020102



**FUNCTION2 HPCDPE**

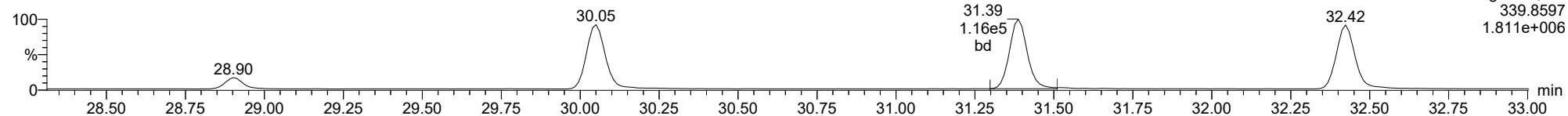
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

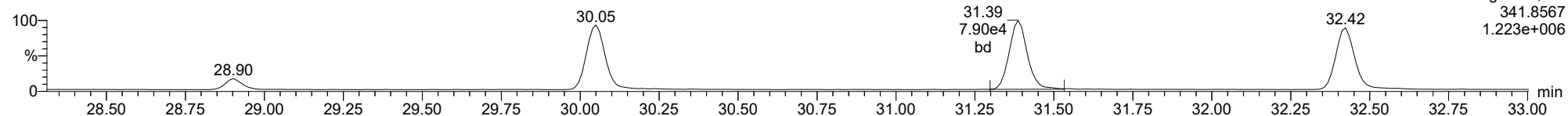
**23478-PeCDF**

23020102



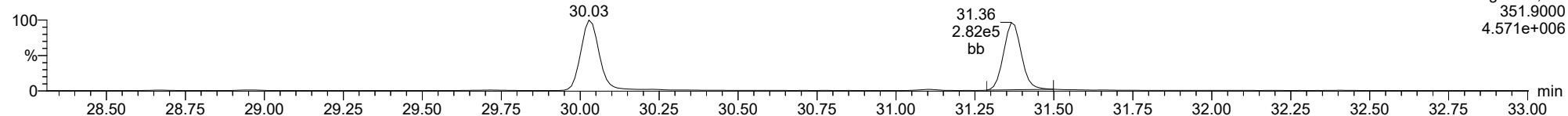
**23478-PeCDF**

23020102



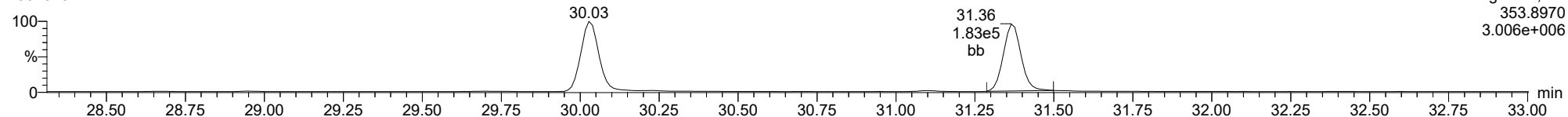
**13C-23478-PeCDF**

23020102



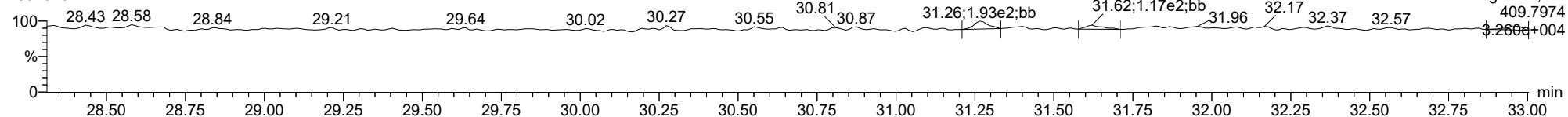
**13C-23478-PeCDF**

23020102



**FUNCTION2 HPCDPE**

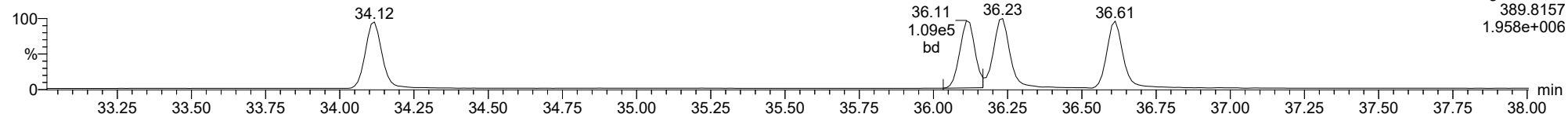
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**123478-HxCDD**

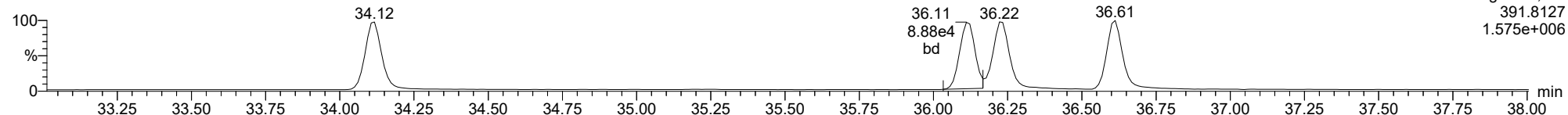
23020102



F3:Voltage SIR,El+  
389.8157  
1.958e+006

**123478-HxCDD**

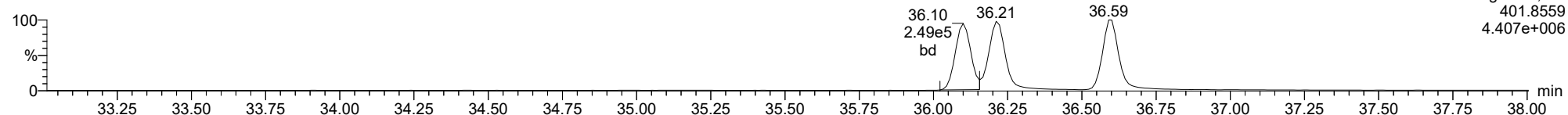
23020102



F3:Voltage SIR,El+  
391.8127  
1.575e+006

**13C-123478-HxCDD**

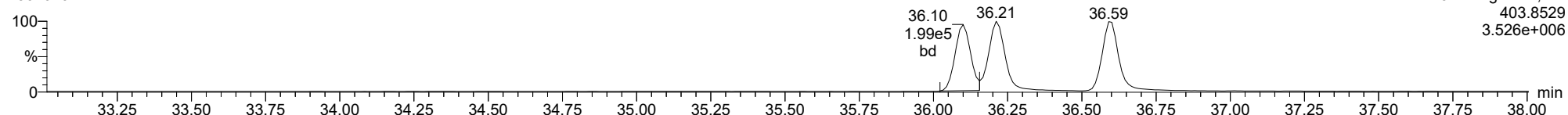
23020102



F3:Voltage SIR,El+  
401.8559  
4.407e+006

**13C-123478-HxCDD**

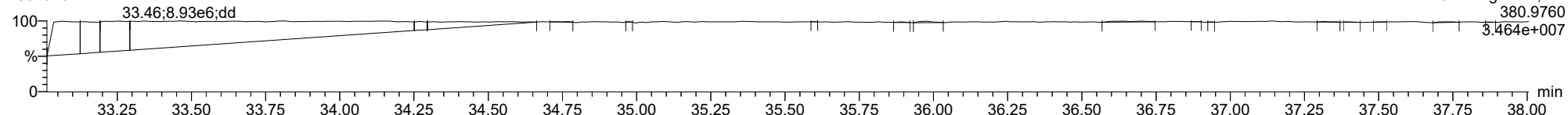
23020102



F3:Voltage SIR,El+  
403.8529  
3.526e+006

**FUNCTION3 PFK**

23020102

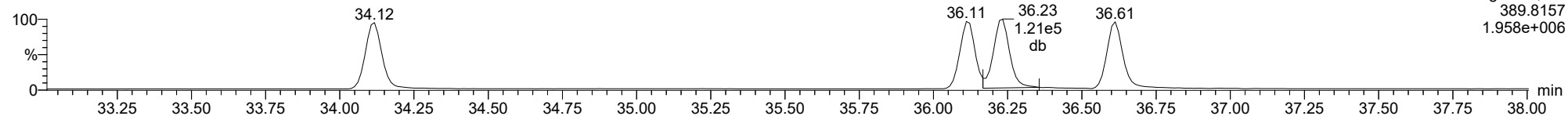


F3:Voltage SIR,El+  
380.9760  
8.93e+006

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

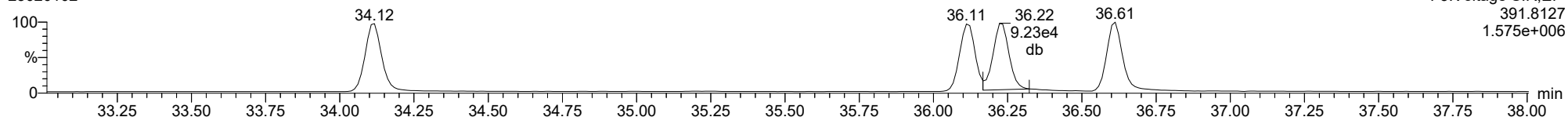
**123678-HxCDD**

23020102



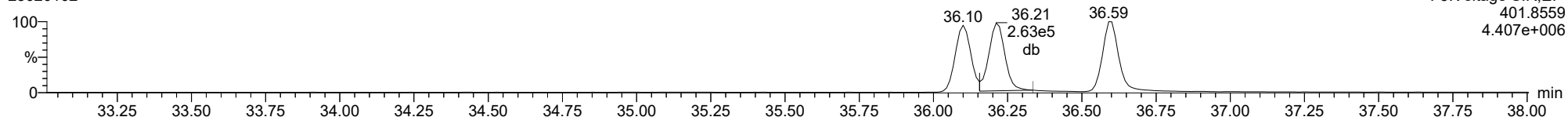
**123678-HxCDD**

23020102



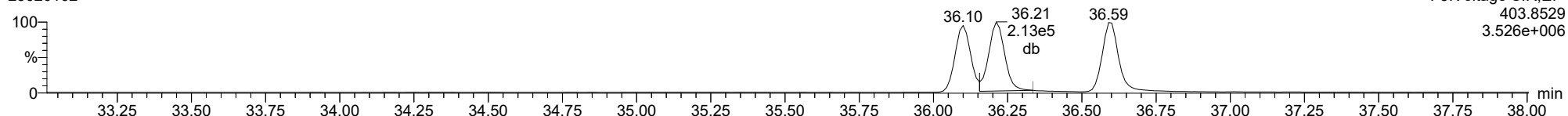
**13C-123678-HxCDD**

23020102



**13C-123678-HxCDD**

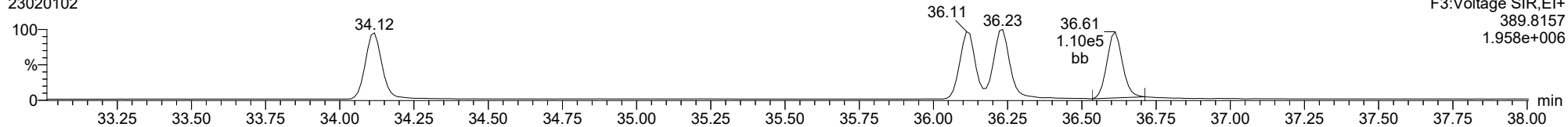
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

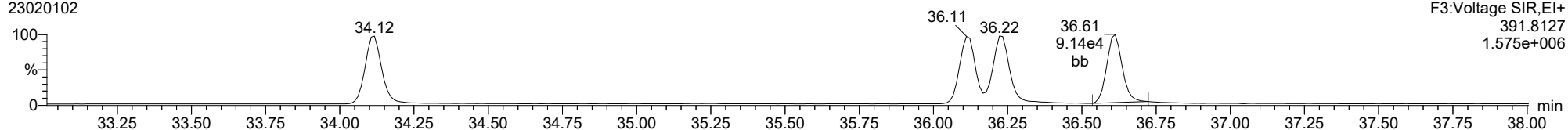
**123789-HxCDD**

23020102



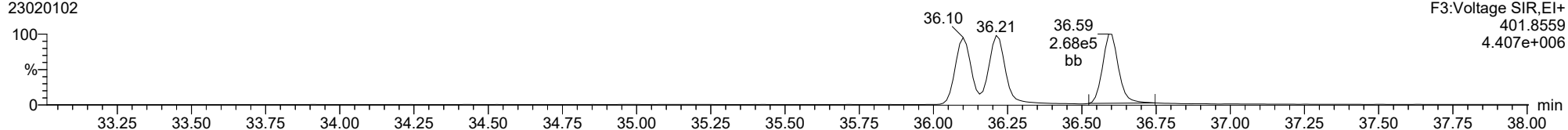
**123789-HxCDD**

23020102



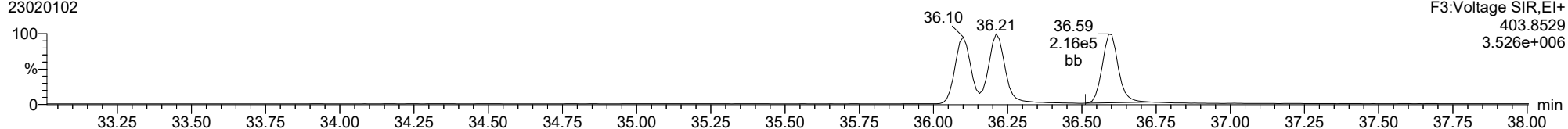
**13C-123789-HxCDD**

23020102



**13C-123789-HxCDD**

23020102

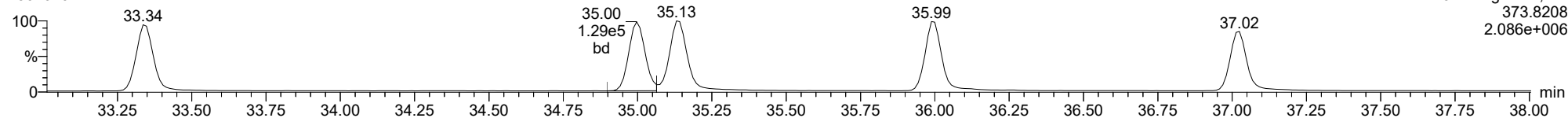




ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

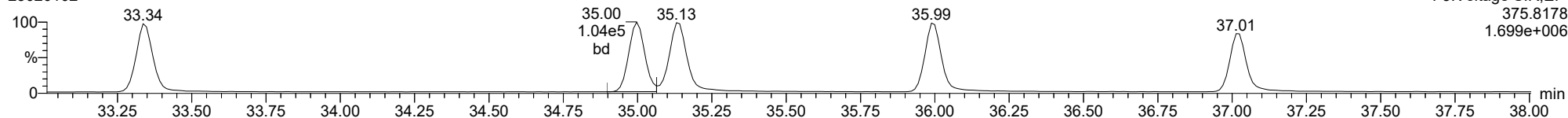
**123478-HxCDF**

23020102



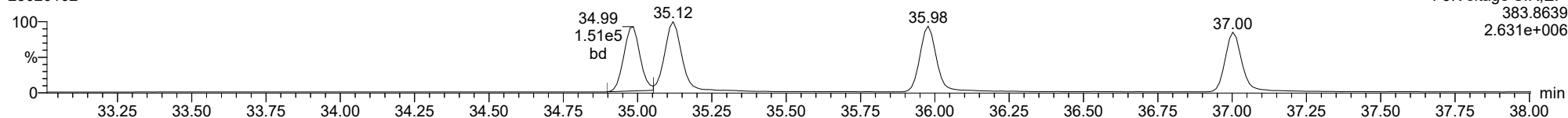
**123478-HxCDF**

23020102



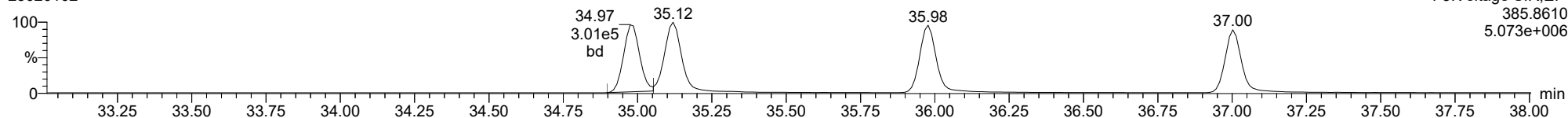
**13C-123478-HxCDF**

23020102



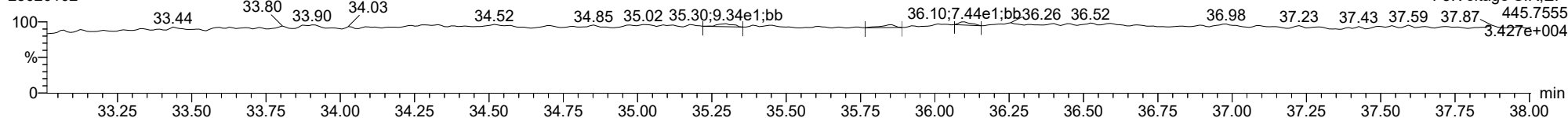
**13C-123478-HxCDF**

23020102



**FUNCTION3 OCDPE**

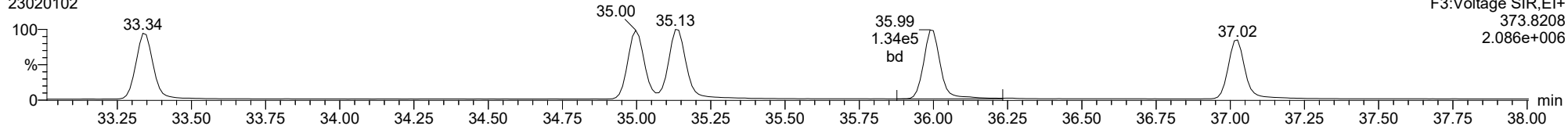
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**234678-HxCDF**

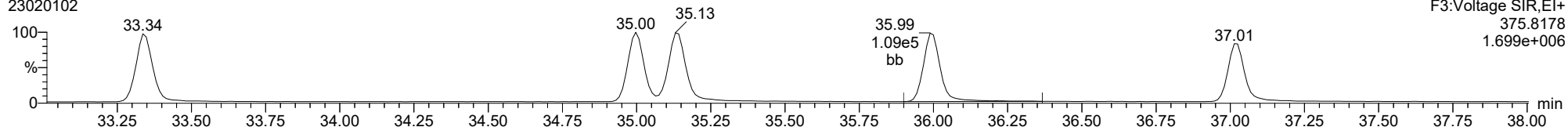
23020102



F3:Voltage SIR,El+  
373.8208  
2.086e+006

**234678-HxCDF**

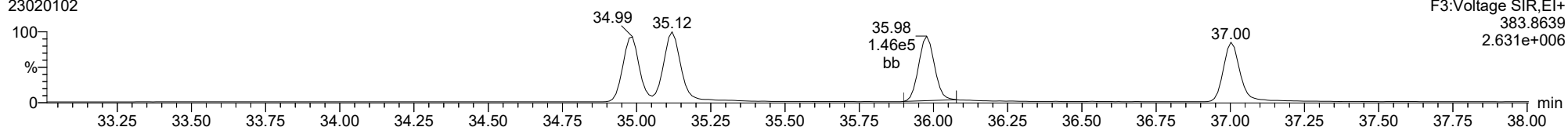
23020102



F3:Voltage SIR,El+  
375.8178  
1.699e+006

**13C-234678-HxCDF**

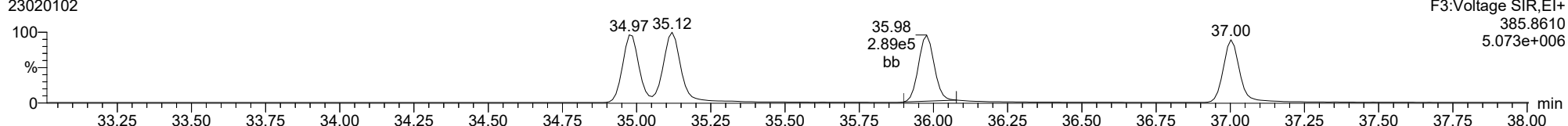
23020102



F3:Voltage SIR,El+  
383.8639  
2.631e+006

**13C-234678-HxCDF**

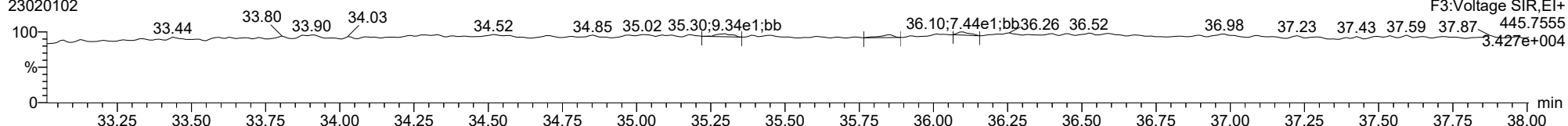
23020102



F3:Voltage SIR,El+  
385.8610  
5.073e+006

**FUNCTION3 OCDPE**

23020102

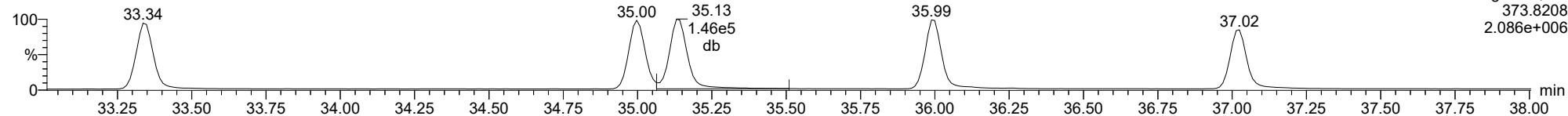


F3:Voltage SIR,El+  
445.7555  
3.427e+004

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

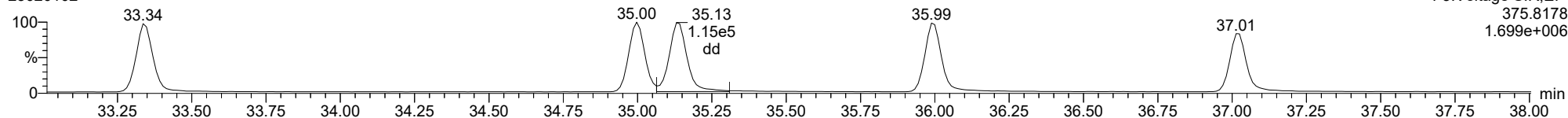
**123678-HxCDF**

23020102



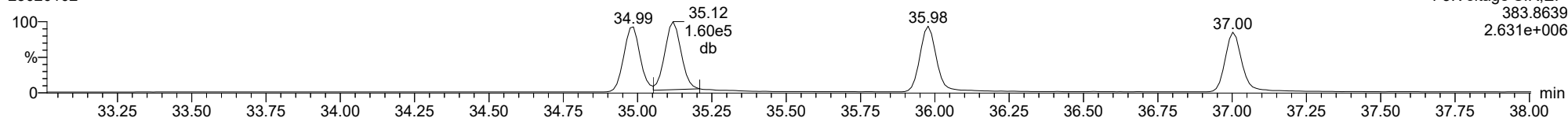
**123678-HxCDF**

23020102



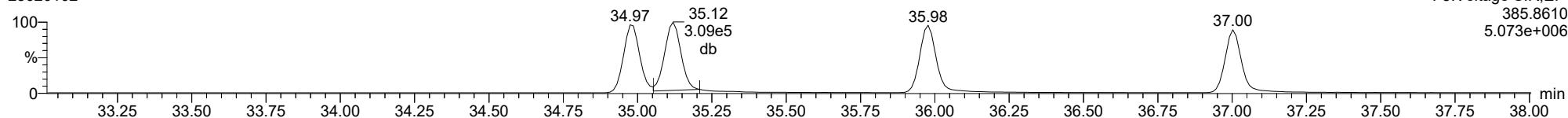
**13C-123678-HxCDF**

23020102



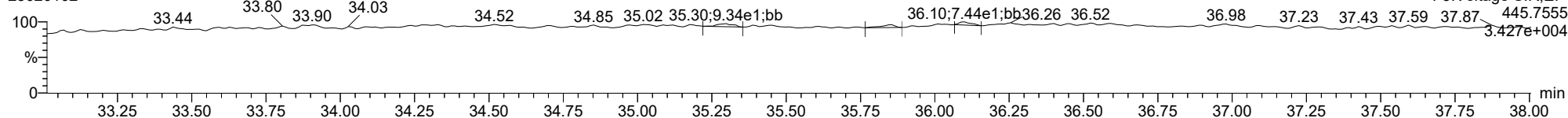
**13C-123678-HxCDF**

23020102



**FUNCTION3 OCDPE**

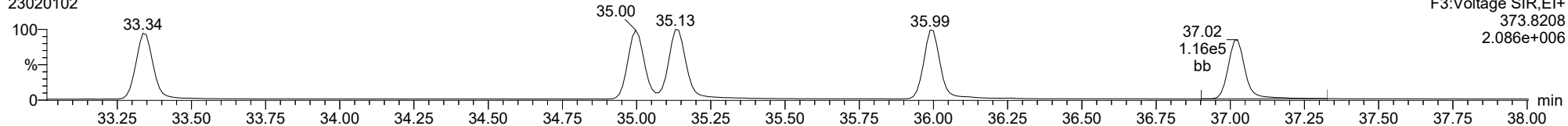
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

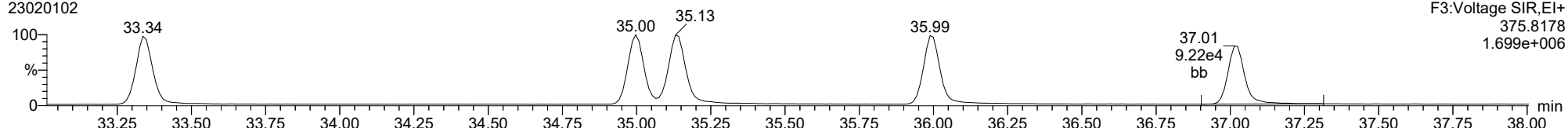
**123789-HxCDF**

23020102



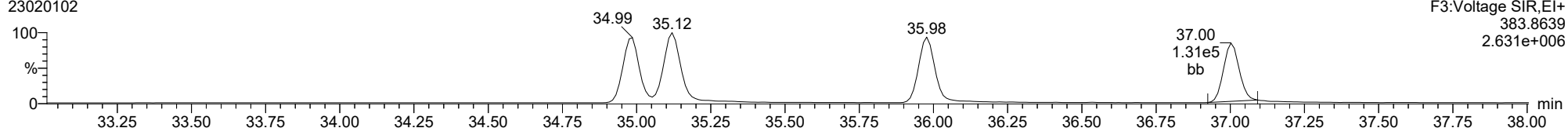
**123789-HxCDF**

23020102



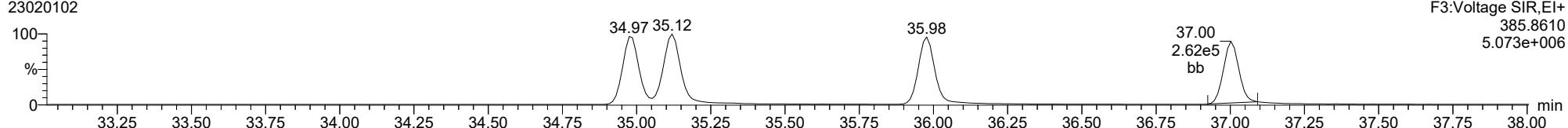
**13C-123789-HxCDF**

23020102



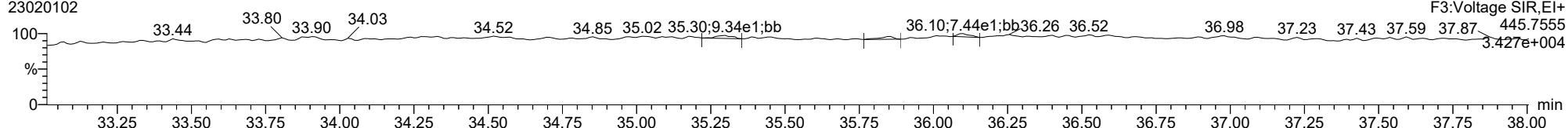
**13C-123789-HxCDF**

23020102



**FUNCTION3 OCDPE**

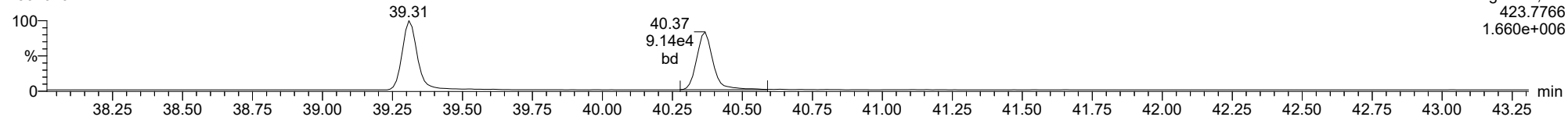
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

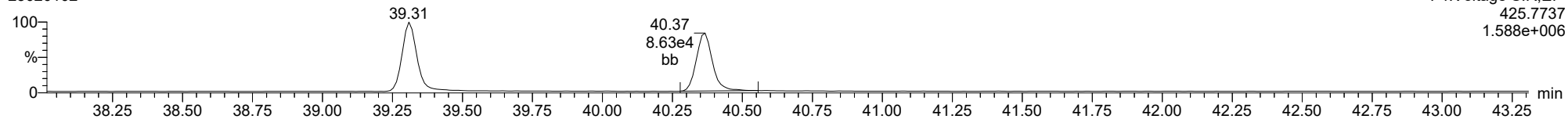
23020102



F4:Voltage SIR,El+  
425.7737  
1.660e+006

**1234678-HpCDD**

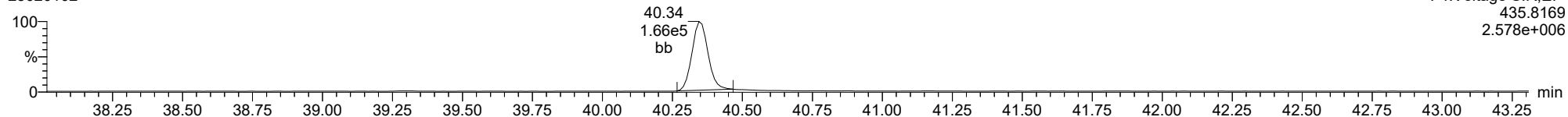
23020102



F4:Voltage SIR,El+  
425.7737  
1.588e+006

**13C-1234678-HpCDD**

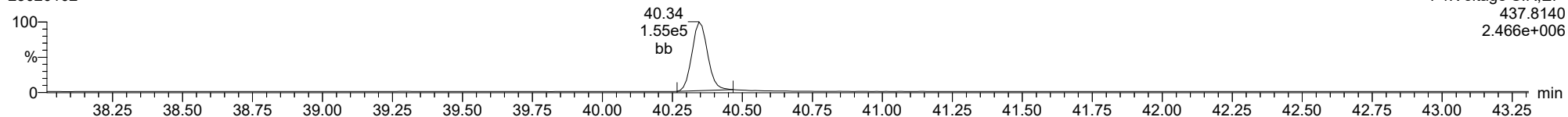
23020102



F4:Voltage SIR,El+  
435.8169  
2.578e+006

**13C-1234678-HpCDD**

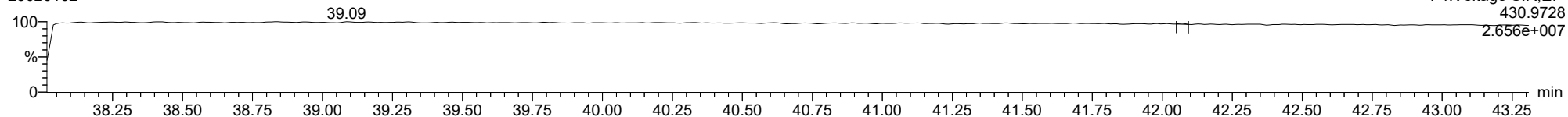
23020102



F4:Voltage SIR,El+  
437.8140  
2.466e+006

**FUNCTION4 PFK**

23020102

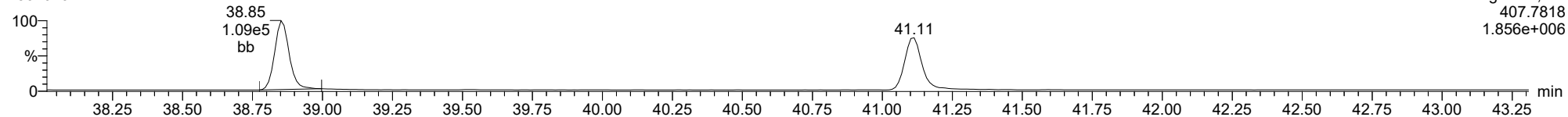


F4:Voltage SIR,El+  
430.9728  
2.656e+007

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDF**

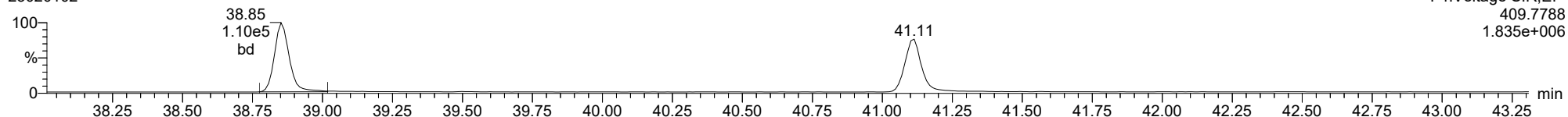
23020102



F4:Voltage SIR,El+  
407.7818  
1.856e+006

**1234678-HpCDF**

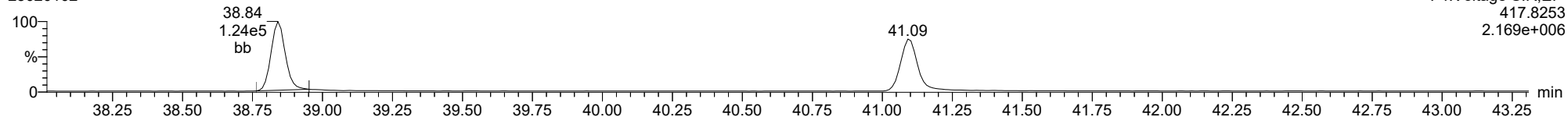
23020102



F4:Voltage SIR,El+  
409.7788  
1.835e+006

**13C-1234678-HpCDF**

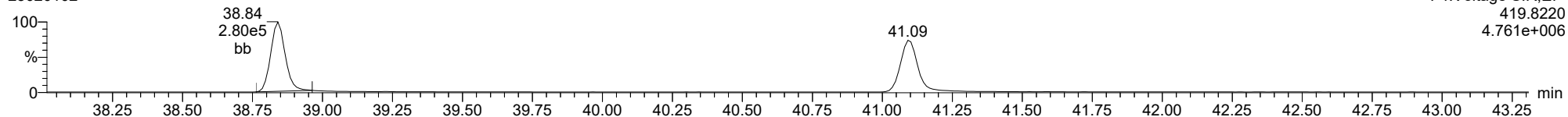
23020102



F4:Voltage SIR,El+  
417.8253  
2.169e+006

**13C-1234678-HpCDF**

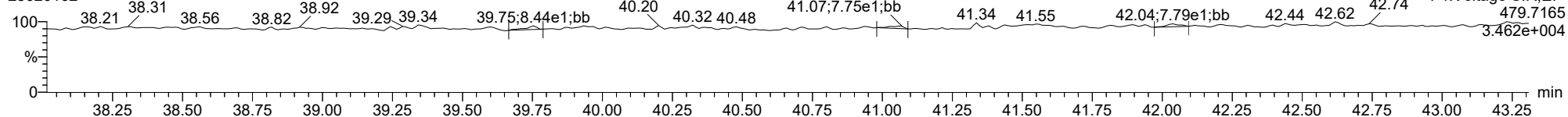
23020102



F4:Voltage SIR,El+  
419.8220  
4.761e+006

**FUNCTION4 NCDPE**

23020102

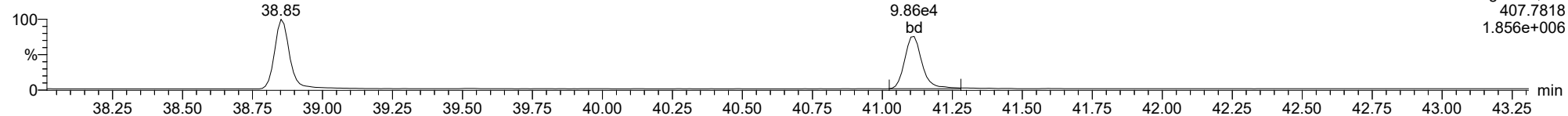


F4:Voltage SIR,El+  
479.7165  
3.462e+004

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

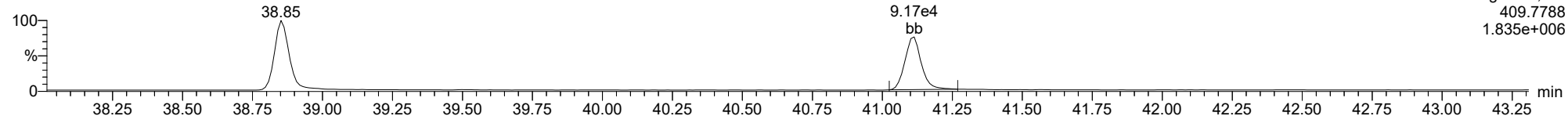
23020102



F4:Voltage SIR,EI+  
407.7818  
1.856e+006

1234789-HpCDF

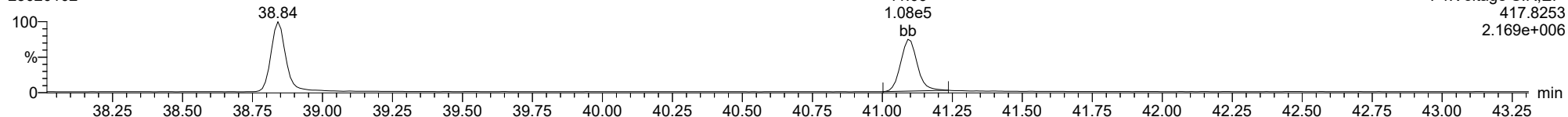
23020102



F4:Voltage SIR,EI+  
409.7788  
1.835e+006

13C-1234789-HpCDF

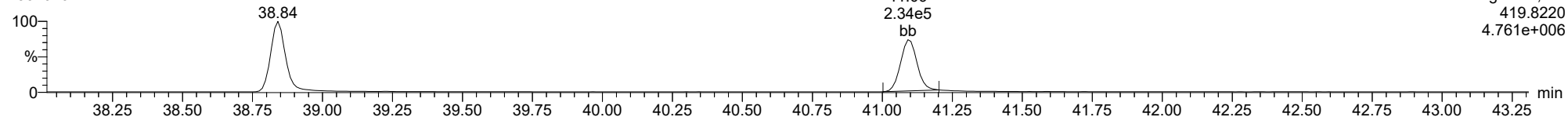
23020102



F4:Voltage SIR,EI+  
417.8253  
2.169e+006

13C-1234789-HpCDF

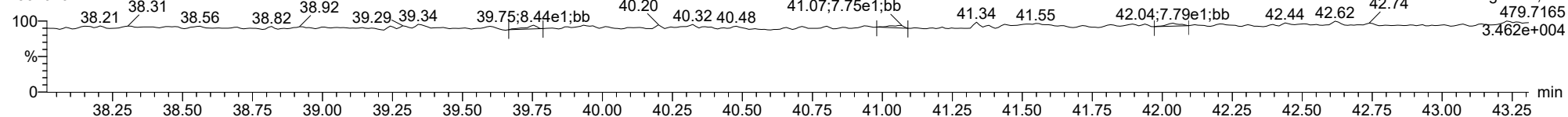
23020102



F4:Voltage SIR,EI+  
419.8220  
4.761e+006

FUNCTION4 NCDPE

23020102

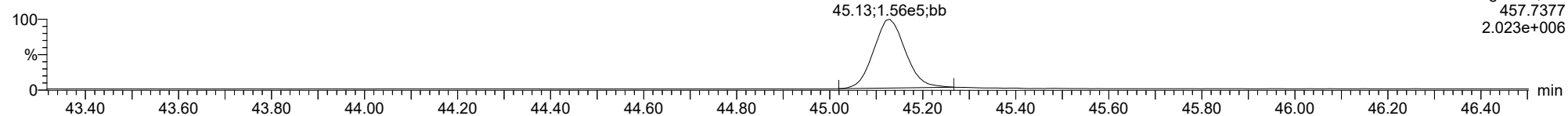


F4:Voltage SIR,EI+  
479.7165  
3.462e+004

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**OCDD**

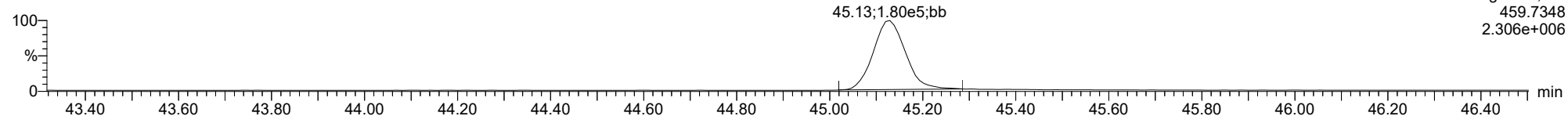
23020102



F5:Voltage SIR,El+  
457.7377  
2.023e+006

**OCDD**

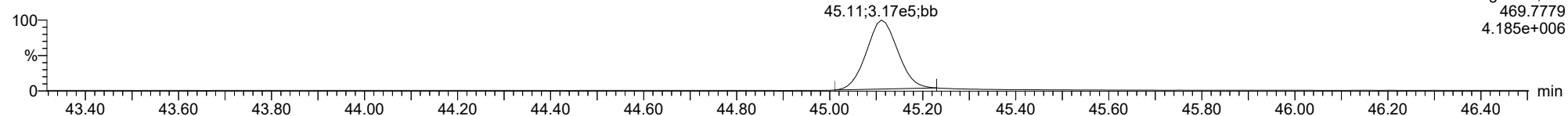
23020102



F5:Voltage SIR,El+  
459.7348  
2.306e+006

**13C-OCDD**

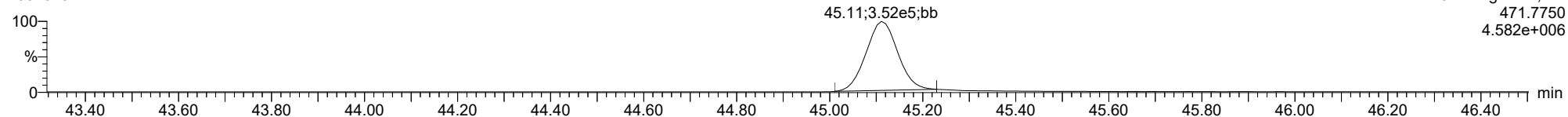
23020102



F5:Voltage SIR,El+  
469.7779  
4.185e+006

**13C-OCDD**

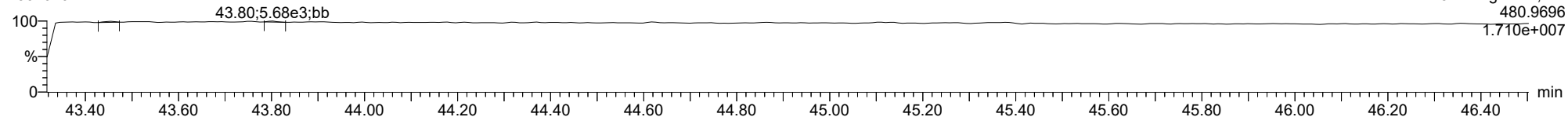
23020102



F5:Voltage SIR,El+  
471.7750  
4.582e+006

**FUNCTION5 PFK**

23020102



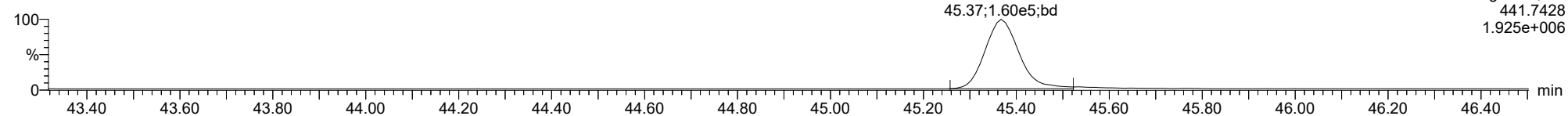
F5:Voltage SIR,El+  
480.9696  
1.710e+007



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

**OCDF**

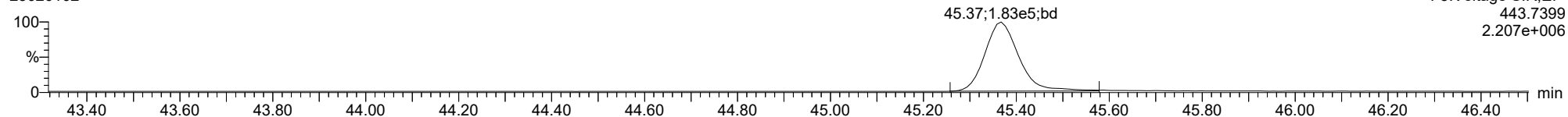
23020102



F5:Voltage SIR,EI+  
441.7428  
1.925e+006

**OCDF**

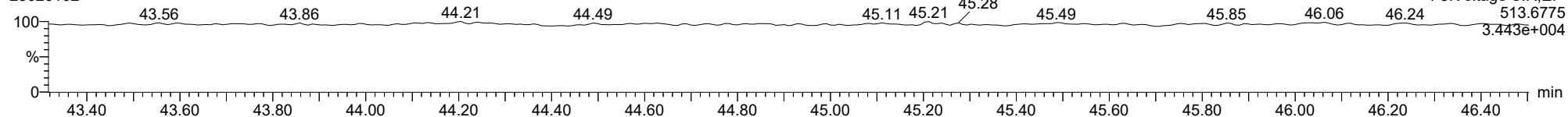
23020102



F5:Voltage SIR,EI+  
443.7399  
2.207e+006

**FUNCTION5 DCDPE**

23020102

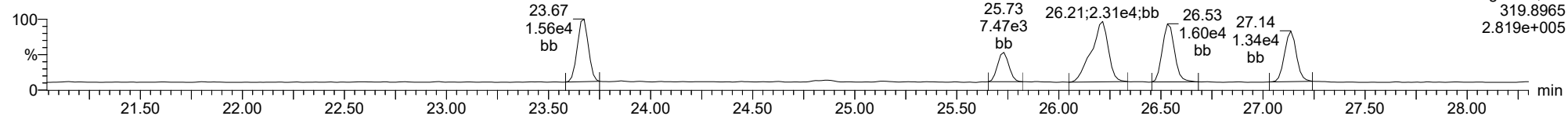


F5:Voltage SIR,EI+  
513.6775  
3.443e+004

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

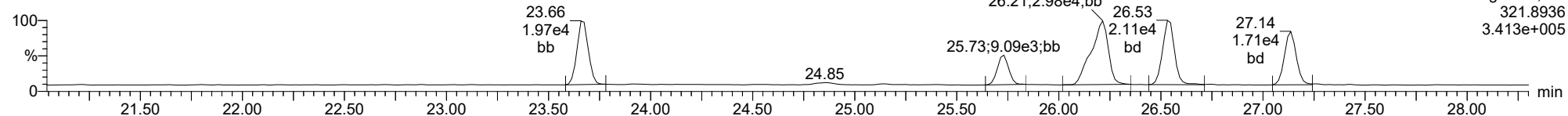
**Total-tetradoxins**

23020102



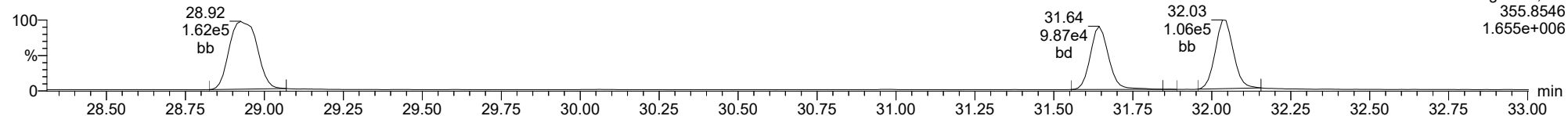
**Total-tetradoxins**

23020102



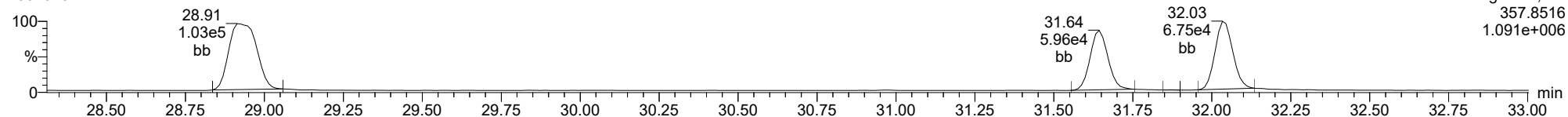
**Total-pentadoxins**

23020102



**Total-pentadoxins**

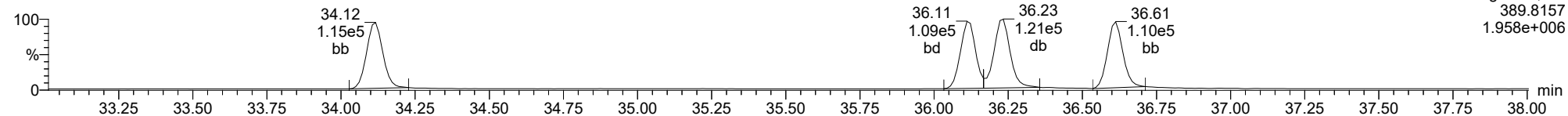
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

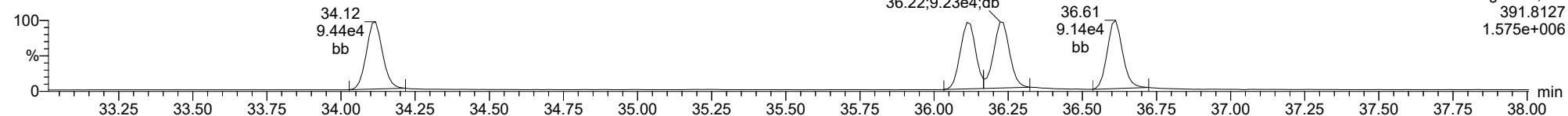
**Total-hexadioxins**

23020102



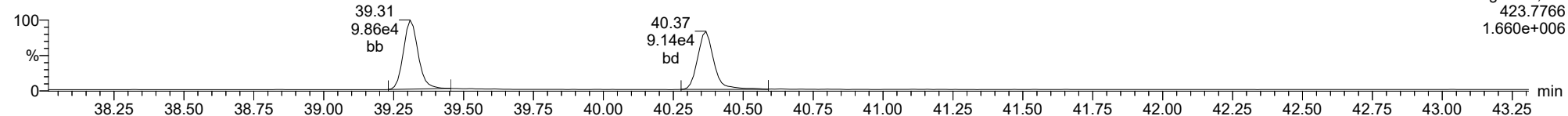
**Total-hexadioxins**

23020102



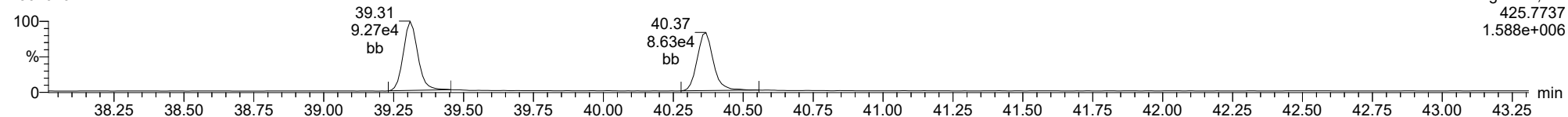
**Total-heptadioxins**

23020102



**Total-heptadioxins**

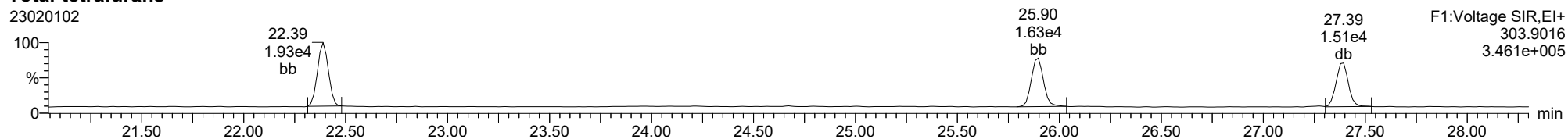
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

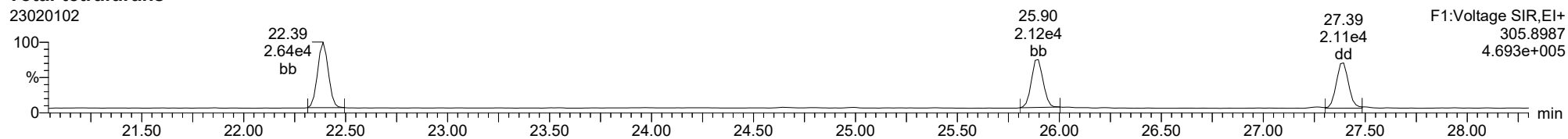
**Total-tetrafurans**

23020102



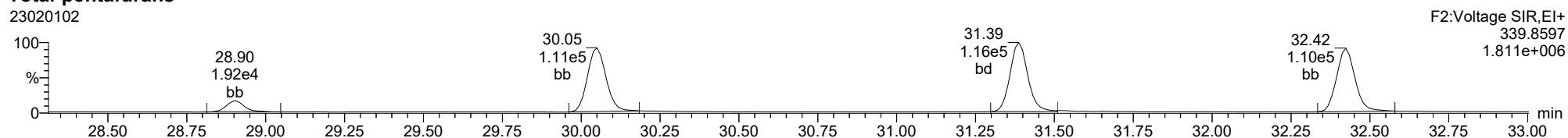
**Total-tetrafurans**

23020102



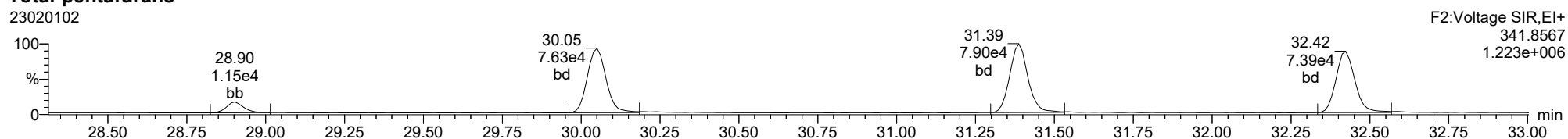
**Total-pentafurans**

23020102



**Total-pentafurans**

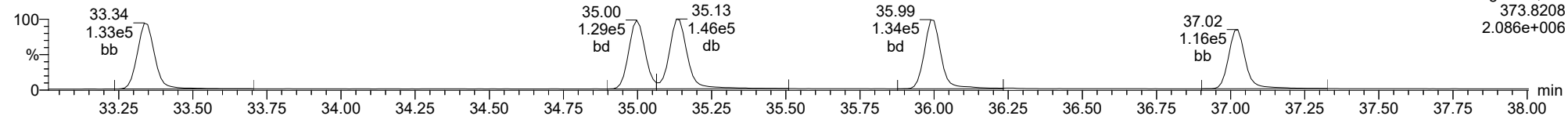
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

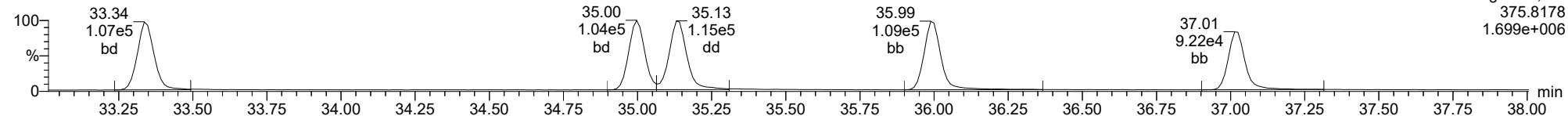
**Total-hexafurans**

23020102



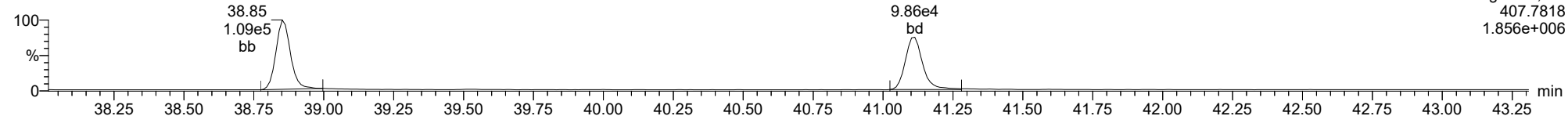
**Total-hexafurans**

23020102



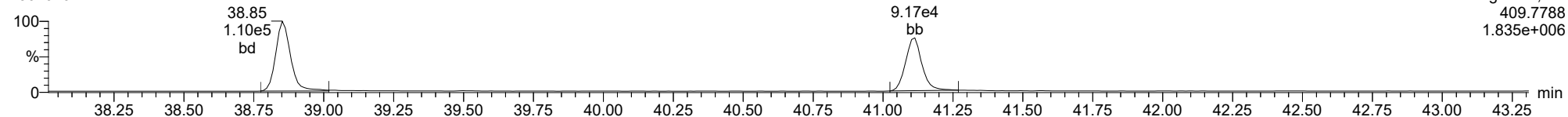
**Total-heptafurans**

23020102

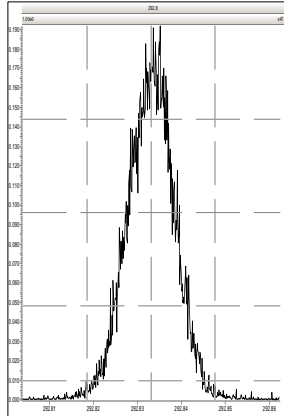


**Total-heptafurans**

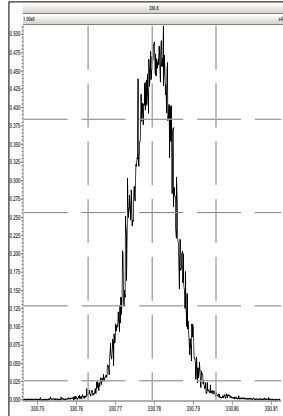
23020102



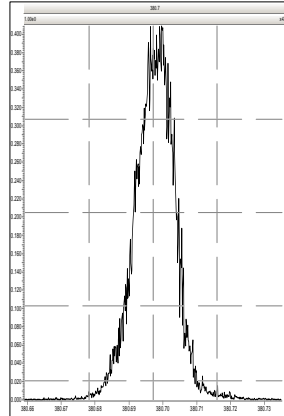
M 292.9824 R 11917



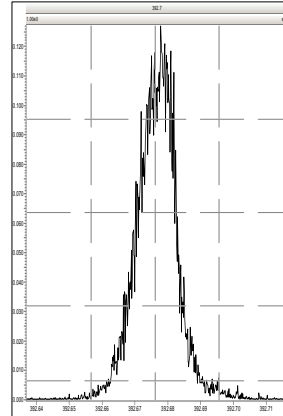
M 330.9792 R 13588



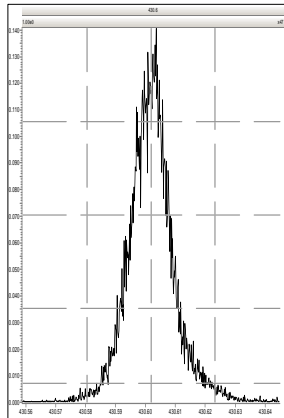
M 380.9760 R 14418



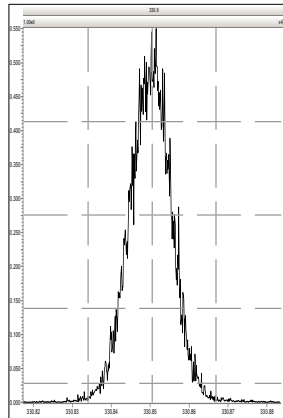
M 392.9760 R 14368



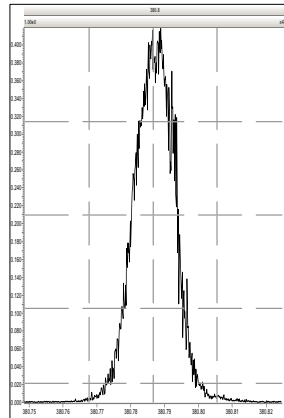
M 430.9728 R 12136



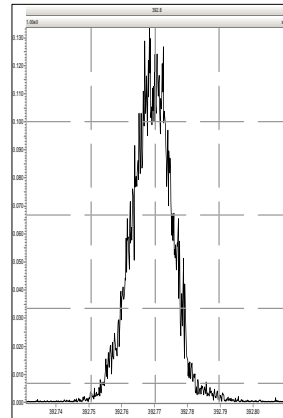
M 330.9792 R 13710



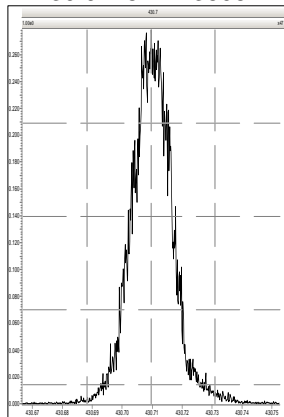
M 380.9760 R 14367



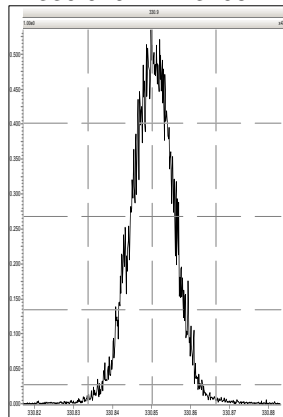
M 392.9760 R 14398



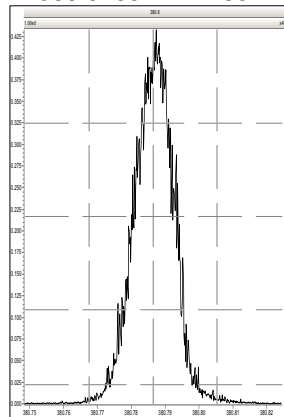
M 430.9728 R 13606



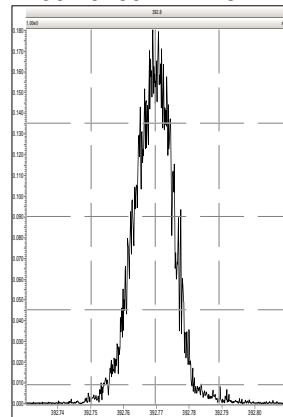
M 330.9792 R 13406



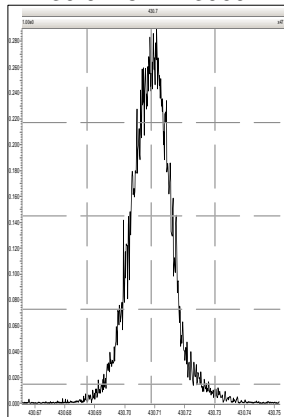
M 380.9760 R 14285



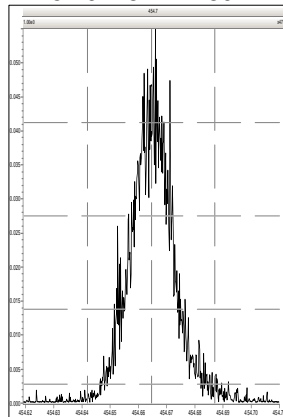
M 392.9760 R 14764



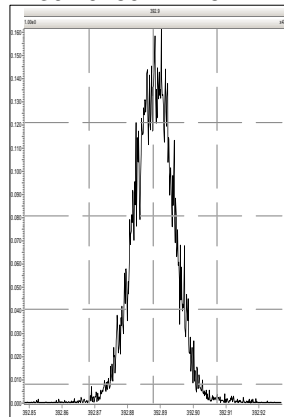
M 430.9728 R 13909



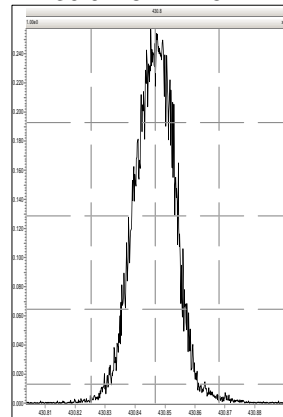
M 454.9728 R 12891



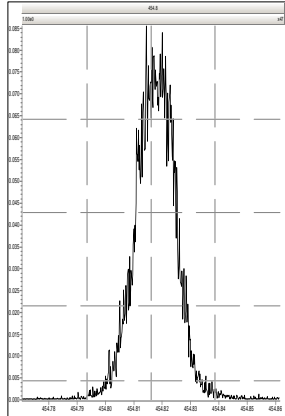
M 392.9760 R 14627



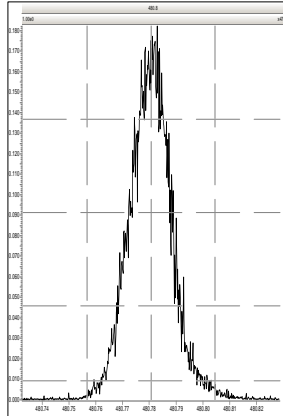
M 430.9728 R 14577



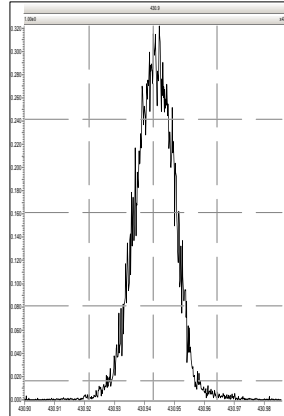
M 454.9728 R 14287



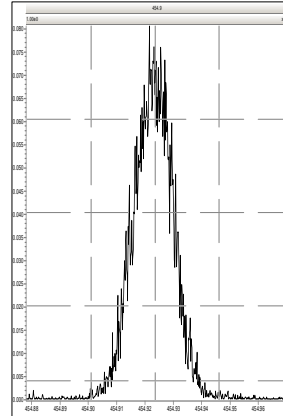
M 480.9696 R 13699



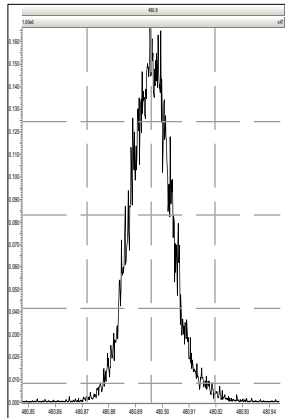
M 430.9728 R 15291



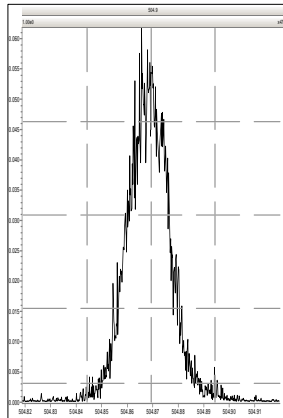
M 454.9728 R 15060



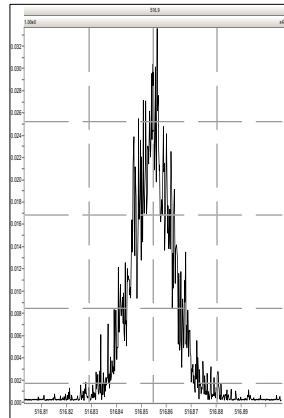
M 480.9696 R 13303



M 504.9696 R 14166



M 516.9697 R 14534

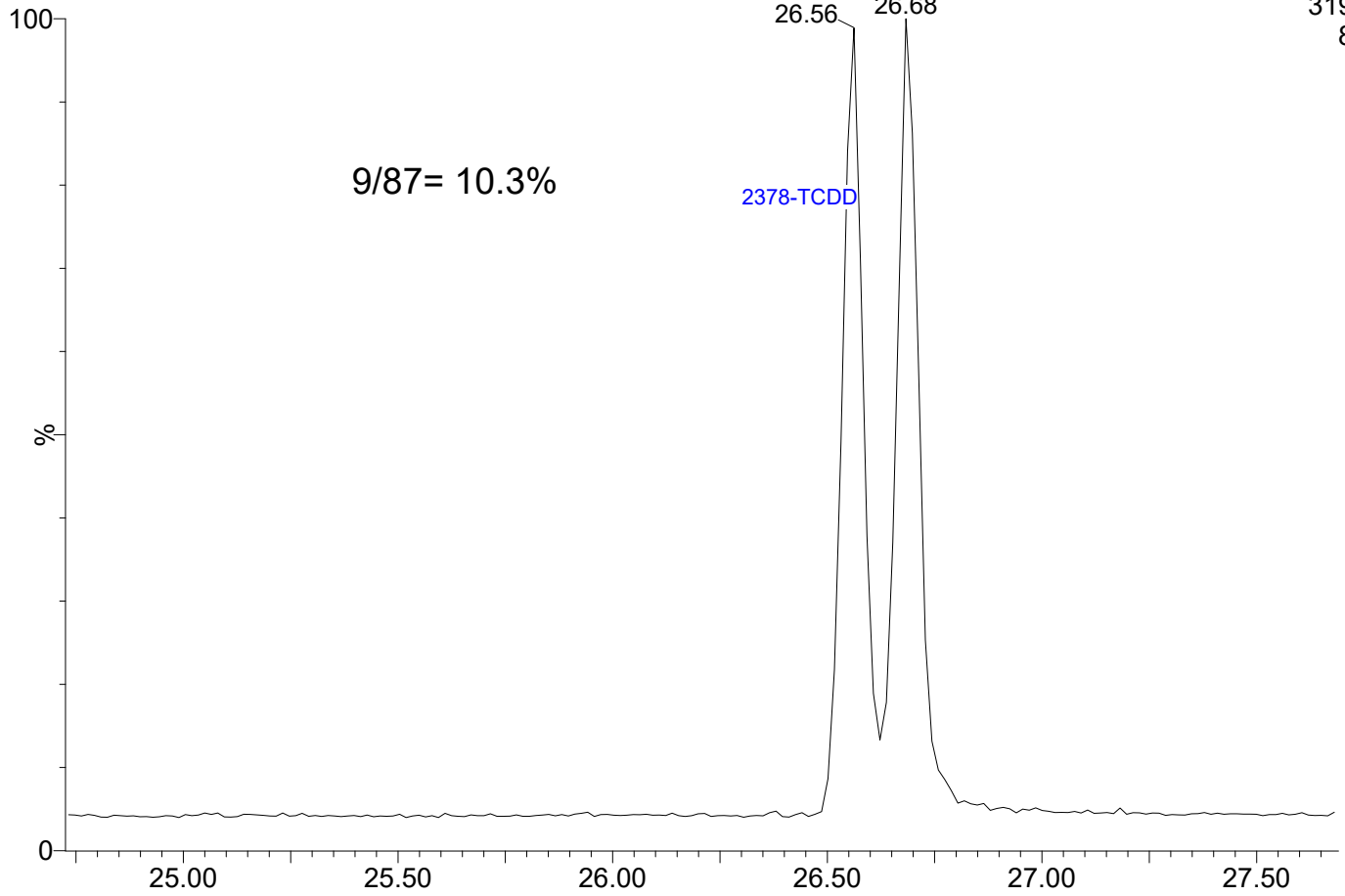


23020103

1: Voltage SIR 15 Channels EI+

319.8965

8.22e5

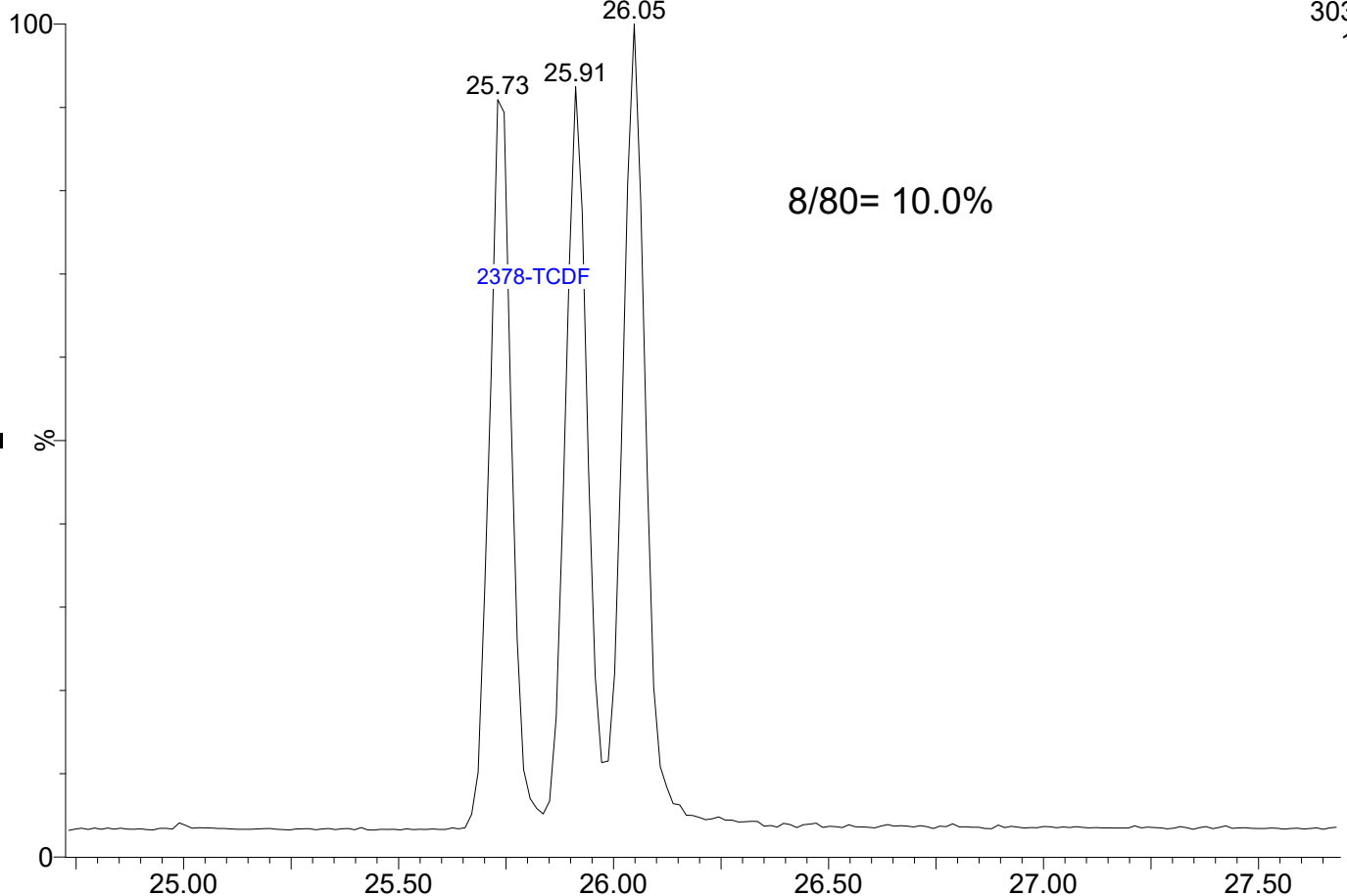


23020103

1: Voltage SIR 15 Channels EI+

303.9016

1.03e6





**Quantify Sample Summary Report**      **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: 03 Feb 2023 10:33:40**

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.876		0.770	1080	1324								
12378-PeCDF	30.038	1.000	4.271e3	3.157e3	0.845	1.353	1.550	952	1114	6.59e4	5.26e4	69.3	47.2	NO	bb	bd	0.524
23478-PeCDF	31.374	1.000	4.511e3	2.751e3	0.911	1.640	1.550	952	1114	6.73e4	4.18e4	70.7	37.5	NO	bb	bb	0.494
123478-HxCDF	34.995	1.001	4.104e3	3.031e3	1.182	1.354	1.240	1010	1011	5.83e4	4.33e4	57.7	42.8	NO	bd	bd	0.507
234678-HxCDF	35.987	1.000	3.766e3	3.106e3	1.229	1.212	1.240	1010	1011	5.67e4	5.22e4	56.2	51.6	NO	bb	bb	0.497
123678-HxCDF	35.129	1.000	4.222e3	3.339e3	1.248	1.264	1.240	1010	1011	6.34e4	4.53e4	62.8	44.8	NO	db	db	0.502
123789-HxCDF	37.012	1.000	3.644e3	2.921e3	1.187	1.248	1.240	1010	1011	5.58e4	4.74e4	55.3	46.9	NO	bb	bb	0.543
1234678-HpCDF	38.850	1.000	3.896e3	3.656e3	1.204	1.066	1.050	999	874	7.14e4	6.60e4	71.5	75.5	NO	bb	bb	0.550
1234789-HpCDF	41.101	1.000	3.001e3	3.100e3	1.165	0.968	1.050	999	874	4.75e4	4.72e4	47.6	54.0	NO	bb	bb	0.533
OCDF	45.376	1.006	5.786e3	6.873e3	1.186	0.842	0.890	933	1403	7.23e4	8.24e4	77.5	58.8	NO	bb	bd	1.268
2378-TCDD					1.236		0.770	1059	950								
12378-PeCDD	31.642	1.001	3.215e3	2.188e3	1.087	1.469	1.550	1079	785	5.52e4	3.24e4	51.2	41.3	NO	bd	bb	0.496
123478-HxCDD	36.109	1.000	2.827e3	2.333e3	0.987	1.212	1.240	1001	800	4.34e4	4.15e4	43.4	51.9	NO	dd	bd	0.497
123678-HxCDD	36.221	1.000	3.387e3	2.724e3	1.021	1.243	1.240	1001	800	5.33e4	4.23e4	53.3	52.9	NO	db	db	0.556
123789-HxCDD	36.611	1.011	2.961e3	2.378e3	0.985	1.245	1.240	1001	800	5.48e4	3.89e4	54.8	48.6	NO	bb	bb	0.509
1234678-HpCDD	40.354	1.000	3.173e3	3.384e3	1.253	0.938	1.050	1384	648	4.91e4	5.67e4	35.5	87.6	NO	bb	bb	0.614
OCDD					1.103		0.890	865	2890								
13C-2378-TCDF	25.867	1.007	8.880e5	1.123e6	1.768	0.791	0.770	2432	2065	1.34e7	1.70e7	5499.3	8229.7	NO	bb	bb	101.483
13C-12378-PeCDF	30.026	1.168	1.020e6	6.593e5	1.527	1.547	1.550	4351	2458	1.57e7	1.01e7	3618.6	4108.9	NO	bb	bb	98.114
13C-23478-PeCDF	31.363	1.220	9.713e5	6.405e5	1.466	1.516	1.550	4351	2458	1.47e7	9.63e6	3385.5	3917.5	NO	bb	bb	98.077
13C-123478-HxCDF	34.973	0.956	3.987e5	7.926e5	1.054	0.503	0.510	2002	3102	6.44e6	1.29e7	3217.2	4143.2	NO	bd	bd	100.084
13C-123678-HxCDF	35.118	0.960	4.078e5	7.990e5	1.080	0.510	0.510	2002	3102	6.70e6	1.31e7	3346.6	4215.9	NO	db	db	98.911
13C-234678-HxCDF	35.976	0.983	3.811e5	7.451e5	1.014	0.512	0.510	2002	3102	6.35e6	1.23e7	3171.4	3951.0	NO	bb	bb	98.285
13C-123789-HxCDF	37.001	1.011	3.510e5	6.676e5	0.928	0.526	0.510	2002	3102	5.85e6	1.13e7	2920.8	3645.7	NO	bb	bb	97.160
13C-1234678-HpCDF	38.839	1.061	3.505e5	7.899e5	1.036	0.444	0.440	2536	4120	5.96e6	1.33e7	2351.6	3236.3	NO	bb	bb	97.433
13C-1234789-HpCDF	41.090	1.123	3.059e5	6.773e5	0.905	0.452	0.440	2536	4120	4.61e6	1.03e7	1815.9	2503.7	NO	bb	bb	96.171
13C-1234-TCDD	25.700	0.000	4.959e5	6.249e5	1.000	0.794	0.770	2405	1251	7.82e6	9.77e6	3252.7	7808.7	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	5.458e5	6.834e5	1.103	0.799	0.770	2405	1251	8.30e6	1.04e7	3451.4	8324.3	NO	bb	bb	99.431
13C-12378-PeCDD	31.619	1.230	6.125e5	3.907e5	0.914	1.568	1.550	1178	1168	9.36e6	5.78e6	7947.4	4944.2	NO	bb	bd	97.913
13C-123478-HxCDD	36.098	0.987	5.901e5	4.628e5	0.933	1.275	1.240	2011	1749	9.65e6	7.66e6	4801.0	4381.0	NO	bd	bd	99.896
13C-123678-HxCDD	36.209	0.990	6.061e5	4.713e5	0.965	1.286	1.240	2011	1749	9.81e6	7.59e6	4881.2	4342.3	NO	db	db	98.864
13C-1234678-HpCDD	40.343	1.103	4.400e5	4.119e5	0.782	1.068	1.050	2377	2314	6.98e6	6.54e6	2937.2	2824.0	NO	bb	bb	96.428
13C-OCDD	45.102	1.233	8.036e5	8.792e5	0.788	0.914	0.890	2320	2081	1.01e7	1.12e7	4365.2	5363.3	NO	bb	bb	188.967
13C-123789-HxCDD	36.588	0.000	6.276e5	5.021e5	1.000	1.250	1.240	2011	1749	1.01e7	8.07e6	5029.1	4612.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.634e3		1.233			1257		2.25e4		17.9			bb		0.118

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	1080	1324								
1289-TCDF					0.858		0.770	1080	1324								
13468-PECDF					1.013		1.550	869	1005								
12389-PECDF					0.844		1.550	952	1114								
123468-HXCDF					1.197		1.240	1010	1011								
1368-TCDD					1.084		0.770	1059	950								
1289-TCDD					0.975		0.770	1059	950								
12479-PECDD					1.837		1.550	1079	785								
12389-PECDD					1.252		1.550	1079	785								
124679-HXCDD					1.033		1.240	1001	800								
1234679-HPCDD					1.286		1.050	1384	648								
Total-tetrafurans			0.000e0		0.933			1080		0.00e0							
Total-penta1			0.000e0					869		0.00e0							
Total-pentafurans			8.782e3		0.866			952		1.33e5							1.018
Total-hexafurans			1.574e4		1.208			1010		2.34e5							2.049
Total-heptafurans			6.897e3		1.185			999		1.19e5							1.082
Total-Furans			3.720e4		1.067			1080		5.59e5							5.417
Total-tetradoxins			0.000e0		1.099			1059		0.00e0							
Total-pentadoxins			3.215e3		1.392			1079		5.52e4							0.496
Total-hexadoxins			9.529e3		1.007			1001		1.58e5							1.624
Total-heptadoxins			3.173e3		1.269			1384		4.91e4							0.614
Total-Dioxins			1.601e4		1.165			1059		2.65e5							2.750
Total-TEQ			5.321e4					1059		8.24e5							8.168
FUNCTION1 PFK			3.664e5					577038		8.77e6							
FUNCTION2 PFK			5.803e5					248887		1.44e7							0.000
FUNCTION3 PFK			1.568e5					462057		5.36e6							0.000
FUNCTION4 PFK			0.000e0					300538		0.00e0							
FUNCTION5 PFK			6.700e4					200836		2.35e6							
FUNCTION1 HXCD...			8.333e2					859		1.29e4							0.000
FUNCTION1 HPCD...			1.557e3					919		1.93e4							0.000
FUNCTION2 HPCD...			7.646e2					998		1.65e4							0.000
FUNCTION3 OCDPE			1.789e3					773		2.75e4							0.000
FUNCTION4 NCDPE			1.690e2					924		5.87e3							0.000
FUNCTION5 DCDPE			8.847e1					800		2.49e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: 03 Feb 2023 10:33:40****ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.37	4.511e3	2.751e3	0.911	1.64	1.55	70.7	YES	NO	bb	bb	0.494
2	12378-PeCDF	30.04	4.271e3	3.157e3	0.845	1.35	1.55	69.3	YES	NO	bb	bd	0.524

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.01	3.644e3	2.921e3	1.187	1.25	1.24	55.3	YES	NO	bb	bb	0.543
2	234678-HxCDF	35.99	3.766e3	3.106e3	1.229	1.21	1.24	56.2	YES	NO	bb	bb	0.497
3	123678-HxCDF	35.13	4.222e3	3.339e3	1.248	1.26	1.24	62.8	YES	NO	db	db	0.502
4	123478-HxCDF	35.00	4.104e3	3.031e3	1.182	1.35	1.24	57.7	YES	NO	bd	bd	0.507

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	3.001e3	3.100e3	1.165	0.97	1.05	47.6	YES	NO	bb	bb	0.533
2	1234678-HpCDF	38.85	3.896e3	3.656e3	1.204	1.07	1.05	71.5	YES	NO	bb	bb	0.550

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.37	4.511e3	2.751e3	0.911	1.64	1.55	70.7	YES	NO	bb	bb	0.494
2	12378-PeCDF	30.04	4.271e3	3.157e3	0.845	1.35	1.55	69.3	YES	NO	bb	bd	0.524
3	123789-HxCDF	37.01	3.644e3	2.921e3	1.187	1.25	1.24	55.3	YES	NO	bb	bb	0.543
4	234678-HxCDF	35.99	3.766e3	3.106e3	1.229	1.21	1.24	56.2	YES	NO	bb	bb	0.497
5	123678-HxCDF	35.13	4.222e3	3.339e3	1.248	1.26	1.24	62.8	YES	NO	db	db	0.502
6	123478-HxCDF	35.00	4.104e3	3.031e3	1.182	1.35	1.24	57.7	YES	NO	bd	bd	0.507
7	1234789-HpCDF	41.10	3.001e3	3.100e3	1.165	0.97	1.05	47.6	YES	NO	bb	bb	0.533
8	1234678-HpCDF	38.85	3.896e3	3.656e3	1.204	1.07	1.05	71.5	YES	NO	bb	bb	0.550
9	OCDF	45.38	5.786e3	6.873e3	1.186	0.84	0.89	77.5	YES	NO	bb	bd	1.268

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.64	3.215e3	2.188e3	1.087	1.47	1.55	51.2	YES	NO	bd	bb	0.496

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	2.961e3	2.378e3	0.985	1.24	1.24	54.8	YES	NO	bb	bb	0.509
2	123678-HxCDD	36.22	3.387e3	2.724e3	1.021	1.24	1.24	53.3	YES	NO	db	db	0.556
3	123478-HxCDD	36.11	2.827e3	2.333e3	0.987	1.21	1.24	43.4	YES	NO	dd	bd	0.497
4	Total-hexadioxins	35.12	3.540e2	3.166e2	1.007	1.12	1.24	6.7	YES	NO	db	bb	0.063

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	3.173e3	3.384e3	1.253	0.94	1.05	35.5	YES	NO	bb	bb	0.614

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk**

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Dioxins	22.28	9.641e1	1.412e2	1.165	0.68	0.77	2.5	NO	NO	bd	bb	0.017
2	12378-PeCDD	31.64	3.215e3	2.188e3	1.087	1.47	1.55	51.2	YES	NO	bd	bb	0.496
3	123789-HxCDD	36.61	2.961e3	2.378e3	0.985	1.24	1.24	54.8	YES	NO	bb	bb	0.509
4	123678-HxCDD	36.22	3.387e3	2.724e3	1.021	1.24	1.24	53.3	YES	NO	db	db	0.556
5	123478-HxCDD	36.11	2.827e3	2.333e3	0.987	1.21	1.24	43.4	YES	NO	dd	bd	0.497
6	Total-hexadioxins	35.12	3.540e2	3.166e2	1.007	1.12	1.24	6.7	YES	NO	db	bb	0.063
7	1234678-HpCDD	40.35	3.173e3	3.384e3	1.253	0.94	1.05	35.5	YES	NO	bb	bb	0.614

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.37	4.511e3	2.751e3	0.911	1.64	1.55	70.7	YES	NO	bb	bb	0.494
2	12378-PeCDF	30.04	4.271e3	3.157e3	0.845	1.35	1.55	69.3	YES	NO	bb	bd	0.524
3	123789-HxCDF	37.01	3.644e3	2.921e3	1.187	1.25	1.24	55.3	YES	NO	bb	bb	0.543
4	234678-HxCDF	35.99	3.766e3	3.106e3	1.229	1.21	1.24	56.2	YES	NO	bb	bb	0.497
5	123678-HxCDF	35.13	4.222e3	3.339e3	1.248	1.26	1.24	62.8	YES	NO	db	db	0.502
6	123478-HxCDF	35.00	4.104e3	3.031e3	1.182	1.35	1.24	57.7	YES	NO	bd	bd	0.507
7	1234789-HpCDF	41.10	3.001e3	3.100e3	1.165	0.97	1.05	47.6	YES	NO	bb	bb	0.533
8	1234678-HpCDF	38.85	3.896e3	3.656e3	1.204	1.07	1.05	71.5	YES	NO	bb	bb	0.550
9	OCDF	45.38	5.786e3	6.873e3	1.186	0.84	0.89	77.5	YES	NO	bb	bd	1.268
10	Total-Dioxins	22.28	9.641e1	1.412e2	1.165	0.68	0.77	2.5	NO	NO	bd	bb	0.017
11	12378-PeCDD	31.64	3.215e3	2.188e3	1.087	1.47	1.55	51.2	YES	NO	bd	bb	0.496
12	123789-HxCDD	36.61	2.961e3	2.378e3	0.985	1.24	1.24	54.8	YES	NO	bb	bb	0.509
13	123678-HxCDD	36.22	3.387e3	2.724e3	1.021	1.24	1.24	53.3	YES	NO	db	db	0.556
14	123478-HxCDD	36.11	2.827e3	2.333e3	0.987	1.21	1.24	43.4	YES	NO	dd	bd	0.497
15	Total-hexadioxins	35.12	3.540e2	3.166e2	1.007	1.12	1.24	6.7	YES	NO	db	bb	0.063
16	1234678-HpCDD	40.35	3.173e3	3.384e3	1.253	0.94	1.05	35.5	YES	NO	bb	bb	0.614

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.58	8.439e4					1.7	NO		bb		
2	FUNCTION1 PFK	27.45	2.771e4					1.5	NO		bb		
3	FUNCTION1 PFK	27.17	2.484e4					1.4	NO		bb		
4	FUNCTION1 PFK	26.40	1.936e4					1.3	NO		bb		
5	FUNCTION1 PFK	26.11	4.980e4					1.6	NO		bb		
6	FUNCTION1 PFK	25.62	1.288e4					0.9	NO		bb		
7	FUNCTION1 PFK	23.40	2.240e4					0.8	NO		bb		
8	FUNCTION1 PFK	22.69	1.568e4					1.0	NO		bb		
9	FUNCTION1 PFK	22.18	2.261e4					1.3	NO		bb		
10	FUNCTION1 PFK	22.10	4.769e4					1.5	NO		bb		
11	FUNCTION1 PFK	21.98	1.078e4					0.8	NO		bb		
12	FUNCTION1 PFK	21.92	2.828e4					1.5	NO		bb		

**Quantify Totals Report MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk**

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.52	1.267e4					1.4	NO		dd		0.000
2	FUNCTION2 PFK	29.46	2.595e4					2.1	NO		bd		0.000
3	FUNCTION2 PFK	29.36	9.698e3					1.3	NO		db		0.000
4	FUNCTION2 PFK	29.26	3.530e4					1.9	NO		dd		0.000
5	FUNCTION2 PFK	29.20	3.010e4					2.1	NO		dd		0.000
6	FUNCTION2 PFK	29.12	1.008e4					1.1	NO		dd		0.000
7	FUNCTION2 PFK	29.07	1.252e4					1.4	NO		bd		0.000
8	FUNCTION2 PFK	29.00	5.699e3					0.9	NO		db		0.000
9	FUNCTION2 PFK	28.97	2.160e4					1.6	NO		dd		0.000
10	FUNCTION2 PFK	28.81	1.772e4					0.9	NO		bd		0.000
11	FUNCTION2 PFK	28.71	1.302e4					0.8	NO		bb		0.000
12	FUNCTION2 PFK	28.64	1.871e3					0.4	NO		bb		0.000
13	FUNCTION2 PFK	28.51	4.178e3					0.8	NO		bb		0.000
14	FUNCTION2 PFK	28.42	7.027e3					0.8	NO		bb		0.000
15	FUNCTION2 PFK	28.34	4.550e3					0.9	NO		bb		0.000
16	FUNCTION2 PFK	31.02	8.571e3					1.3	NO		dd		0.000
17	FUNCTION2 PFK	30.97	2.370e4					2.0	NO		dd		0.000
18	FUNCTION2 PFK	30.86	2.515e4					1.6	NO		dd		0.000
19	FUNCTION2 PFK	30.83	6.842e3					1.2	NO		bd		0.000
20	FUNCTION2 PFK	30.75	1.931e4					1.6	NO		bb		0.000
21	FUNCTION2 PFK	30.62	1.066e4					1.2	NO		db		0.000
22	FUNCTION2 PFK	30.58	5.541e3					1.0	NO		bd		0.000
23	FUNCTION2 PFK	30.53	9.069e3					1.2	NO		bb		0.000
24	FUNCTION2 PFK	30.44	1.277e4					1.2	NO		db		0.000
25	FUNCTION2 PFK	30.39	1.436e4					1.3	NO		bd		0.000
26	FUNCTION2 PFK	30.19	7.186e3					0.8	NO		bb		0.000
27	FUNCTION2 PFK	30.03	1.599e4					1.2	NO		bb		0.000
28	FUNCTION2 PFK	29.91	1.518e3					0.4	NO		bb		0.000
29	FUNCTION2 PFK	29.80	6.143e3					0.8	NO		bb		0.000
30	FUNCTION2 PFK	29.65	1.120e4					1.0	NO		db		0.000
31	FUNCTION2 PFK	29.56	1.510e4					1.6	NO		dd		0.000
32	FUNCTION2 PFK	32.43	5.171e3					1.0	NO		db		0.000
33	FUNCTION2 PFK	32.40	8.945e3					1.4	NO		bd		0.000
34	FUNCTION2 PFK	32.33	8.546e3					0.8	NO		db		0.000
35	FUNCTION2 PFK	32.28	1.923e3					0.6	NO		bd		0.000
36	FUNCTION2 PFK	32.23	9.966e3					1.3	NO		db		0.000
37	FUNCTION2 PFK	32.18	8.875e3					1.2	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk****PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.09	1.451e4					1.2	NO		db		0.000
39	FUNCTION2 PFK	32.04	5.136e3					0.8	NO		dd		0.000
40	FUNCTION2 PFK	32.01	7.259e3					1.1	NO		bd		0.000
41	FUNCTION2 PFK	31.94	6.720e3					0.8	NO		bb		0.000
42	FUNCTION2 PFK	31.74	5.803e3					0.8	NO		bb		0.000
43	FUNCTION2 PFK	31.61	6.954e3					1.2	NO		db		0.000
44	FUNCTION2 PFK	31.59	1.111e4					1.2	NO		bd		0.000
45	FUNCTION2 PFK	31.45	7.843e2					0.3	NO		bb		0.000
46	FUNCTION2 PFK	31.41	1.192e4					1.2	NO		bb		0.000
47	FUNCTION2 PFK	31.07	1.965e3					0.4	NO		db		0.000
48	FUNCTION2 PFK	32.80	6.019e3					1.1	NO		db		0.000
49	FUNCTION2 PFK	32.77	9.084e3					1.2	NO		bd		0.000
50	FUNCTION2 PFK	32.64	3.494e4					1.5	NO		db		0.000
51	FUNCTION2 PFK	32.60	5.286e3					0.9	NO		dd		0.000
52	FUNCTION2 PFK	32.53	4.308e3					0.5	NO		bd		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.14	4.336e3					0.7	NO		db		0.000
2	FUNCTION3 PFK	36.11	5.755e3					0.7	NO		bd		0.000
3	FUNCTION3 PFK	36.06	7.687e3					0.9	NO		bb		0.000
4	FUNCTION3 PFK	36.02	1.796e4					1.6	NO		bb		0.000
5	FUNCTION3 PFK	35.81	1.736e4					1.2	NO		bb		0.000
6	FUNCTION3 PFK	35.69	5.338e4					1.7	NO		bb		0.000
7	FUNCTION3 PFK	35.20	3.054e3					0.6	NO		bb		0.000
8	FUNCTION3 PFK	34.12	1.673e4					1.2	NO		bb		0.000
9	FUNCTION3 PFK	33.89	1.577e4					1.4	NO		bb		0.000
10	FUNCTION3 PFK	33.50	1.199e4					1.1	NO		bb		0.000
11	FUNCTION3 PFK	36.41	2.803e3					0.5	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.30	6.353e3					1.3	NO		bb		
2	FUNCTION5 PFK	45.94	1.054e4					1.7	NO		bb		
3	FUNCTION5 PFK	45.79	1.187e3					0.6	NO		bb		
4	FUNCTION5 PFK	45.60	4.997e3					1.0	NO		bb		
5	FUNCTION5 PFK	45.34	9.354e3					1.4	NO		db		
6	FUNCTION5 PFK	45.31	2.478e3					1.0	NO		bd		
7	FUNCTION5 PFK	45.26	5.509e3					1.0	NO		bb		
8	FUNCTION5 PFK	43.99	1.588e4					1.1	NO		bb		
9	FUNCTION5 PFK	43.56	6.413e3					1.4	NO		db		
10	FUNCTION5 PFK	43.53	4.291e3					1.1	NO		bd		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	22.28	8.501e1					1.7	NO		bb		0.000
2	FUNCTION1 HXCD...	21.98	1.104e2					2.3	NO		bb		0.000
3	FUNCTION1 HXCD...	26.53	2.072e2					2.6	NO		bb		0.000
4	FUNCTION1 HXCD...	26.29	8.524e1					1.7	NO		bb		0.000
5	FUNCTION1 HXCD...	25.91	1.063e2					2.1	NO		db		0.000
6	FUNCTION1 HXCD...	25.87	8.437e1					1.9	NO		bd		0.000
7	FUNCTION1 HXCD...	25.00	7.918e1					1.2	NO		bb		0.000
8	FUNCTION1 HXCD...	24.64	7.557e1					1.6	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk**

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.37	8.294e1					2.3	NO		dd		0.000
2	FUNCTION1 HPCD...	26.31	7.445e1					1.6	NO		bd		0.000
3	FUNCTION1 HPCD...	25.85	3.079e2					2.6	NO		db		0.000
4	FUNCTION1 HPCD...	25.72	1.912e2					2.1	NO		bd		0.000
5	FUNCTION1 HPCD...	25.35	9.102e1					2.4	NO		bb		0.000
6	FUNCTION1 HPCD...	24.26	7.312e1					0.4	NO		bb		0.000
7	FUNCTION1 HPCD...	23.34	2.139e2					1.8	NO		bb		0.000
8	FUNCTION1 HPCD...	22.66	8.267e1					0.8	NO		bb		0.000
9	FUNCTION1 HPCD...	21.38	7.618e1					1.4	NO		bb		0.000
10	FUNCTION1 HPCD...	27.98	9.946e1					3.1	YES		bb		0.000
11	FUNCTION1 HPCD...	26.99	8.404e1					1.1	NO		bb		0.000
12	FUNCTION1 HPCD...	26.52	1.802e2					1.5	NO		db		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.64	1.571e2					2.9	NO		bb		0.000
2	FUNCTION2 HPCD...	31.35	7.515e1					1.4	NO		bb		0.000
3	FUNCTION2 HPCD...	30.72	8.443e1					1.4	NO		bb		0.000
4	FUNCTION2 HPCD...	30.46	1.124e2					2.4	NO		bb		0.000
5	FUNCTION2 HPCD...	30.06	1.840e2					5.0	YES		bb		0.000
6	FUNCTION2 HPCD...	28.49	7.182e1					1.7	NO		bb		0.000
7	FUNCTION2 HPCD...	28.27	7.966e1					1.8	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.88	1.145e2					2.3	NO		bd		0.000
2	FUNCTION3 OCDPE	35.18	2.003e2					3.4	YES		bb		0.000
3	FUNCTION3 OCDPE	34.09	1.081e2					2.7	NO		db		0.000
4	FUNCTION3 OCDPE	34.04	7.302e1					3.0	YES		bd		0.000
5	FUNCTION3 OCDPE	37.75	1.221e2					3.1	YES		bb		0.000
6	FUNCTION3 OCDPE	36.64	1.574e2					3.5	YES		db		0.000
7	FUNCTION3 OCDPE	36.60	2.003e2					4.2	YES		bd		0.000
8	FUNCTION3 OCDPE	36.20	2.806e2					4.2	YES		db		0.000
9	FUNCTION3 OCDPE	36.12	3.227e2					5.3	YES		dd		0.000
10	FUNCTION3 OCDPE	35.99	2.101e2					3.8	YES		dd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

**ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk****ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.48	9.634e1					2.9	NO		bb		0.000
2	FUNCTION4 NCDPE	38.52	7.264e1					3.4	YES		bb		0.000

**ETHERS6**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.32	8.847e1					3.1	YES		bb		0.000

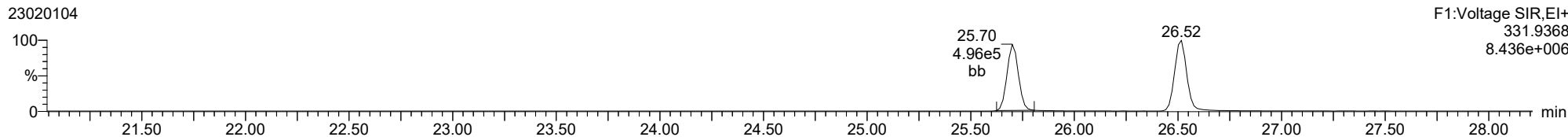
Quantify Sample Report      MassLynx MassLynx V4.1 SCN909  
Dataset:      T:\Autospec\Processed Data Batch\230201\CIH.qld  
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Printed:      Friday, February 03, 2023 10:36:56 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: 03 Feb 2023 10:33:40

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

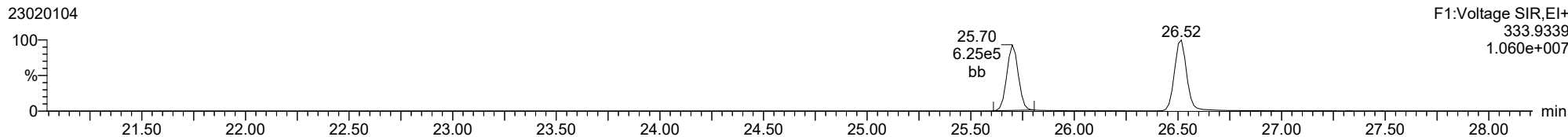
**13C-1234-TCDD**

23020104



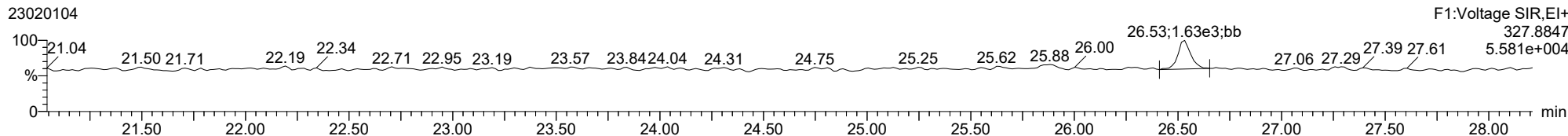
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23020104



**37CL-2378-TCDD**

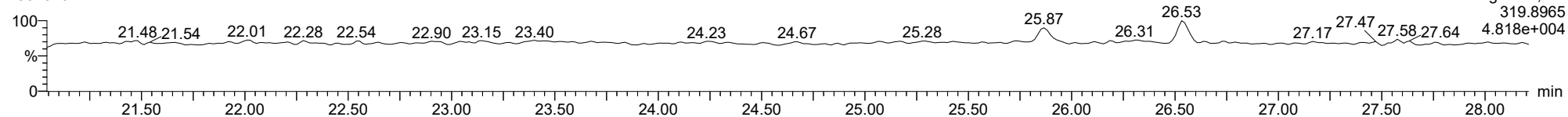
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

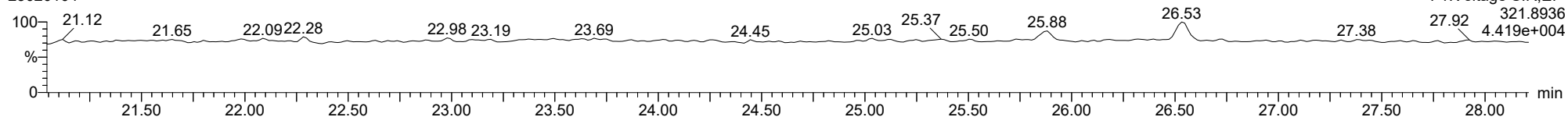
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23020104



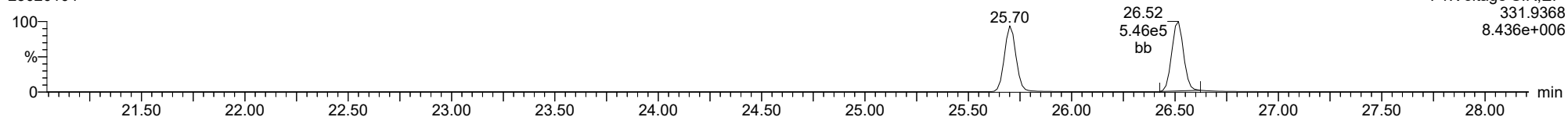
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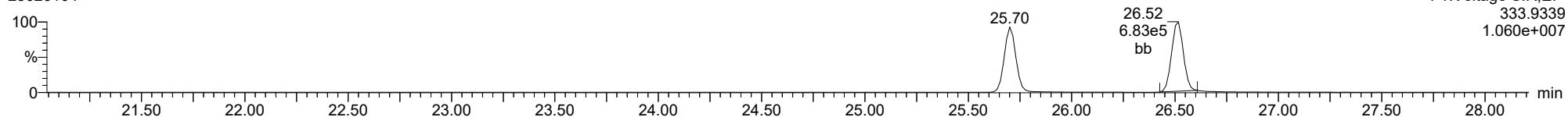
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23020104



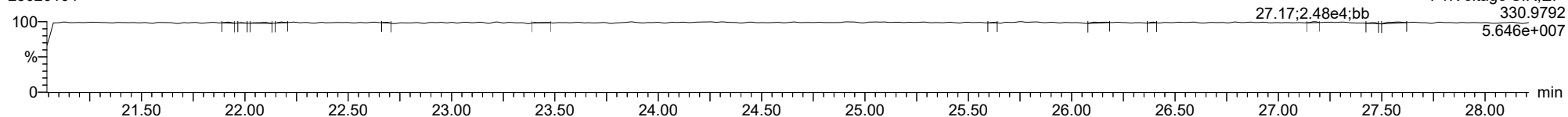
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23020104



**FUNCTION1 PFK**

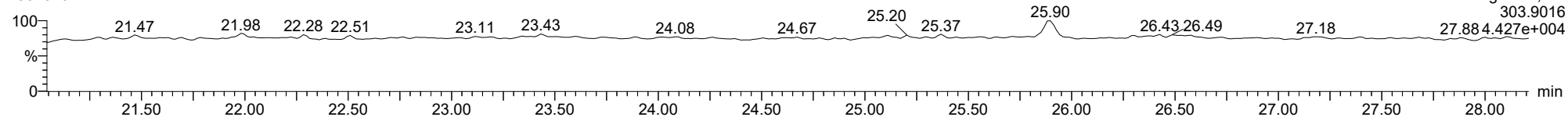
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

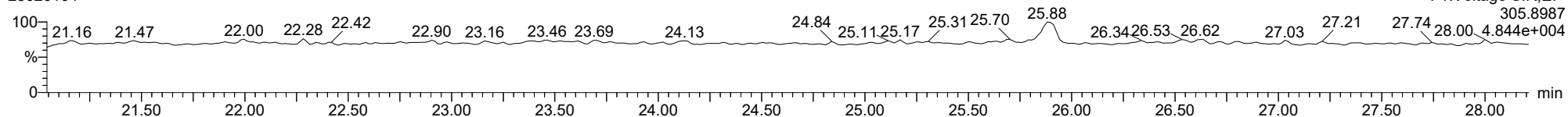
**2378-TCDF**

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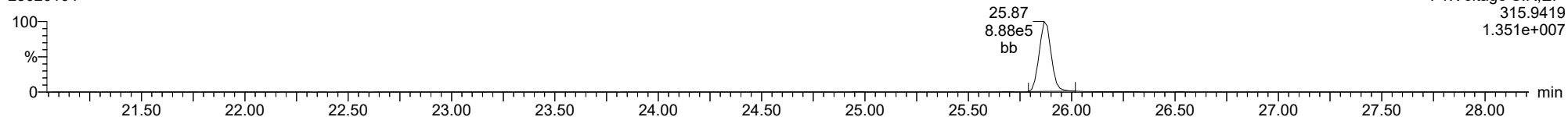
**2378-TCDF**

23020104



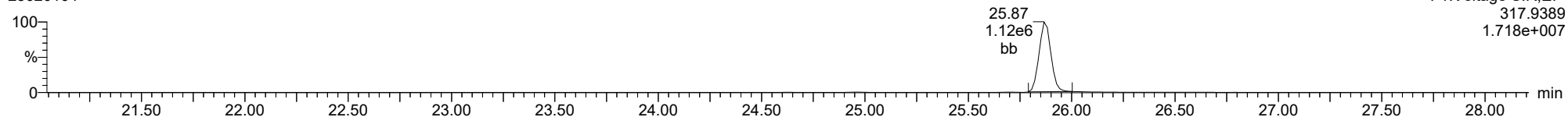
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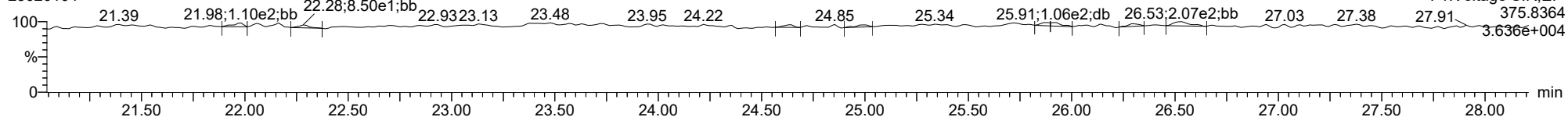
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23020104



**FUNCTION1 HXCDPE**

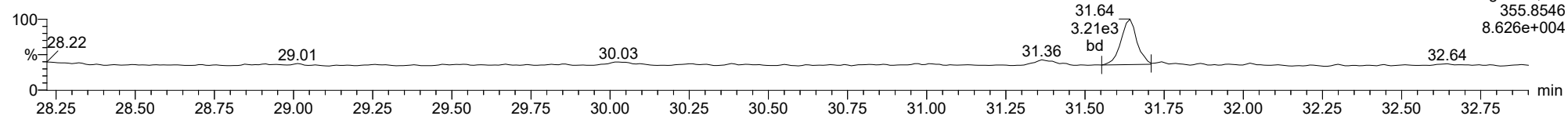
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

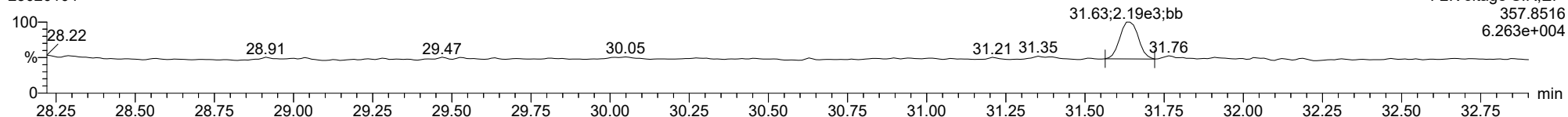
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23020104



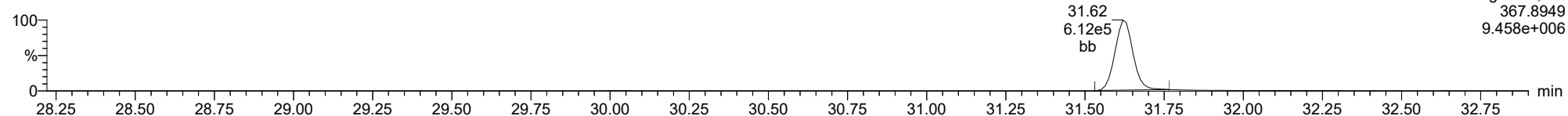
**12378-PeCDD**

23020104



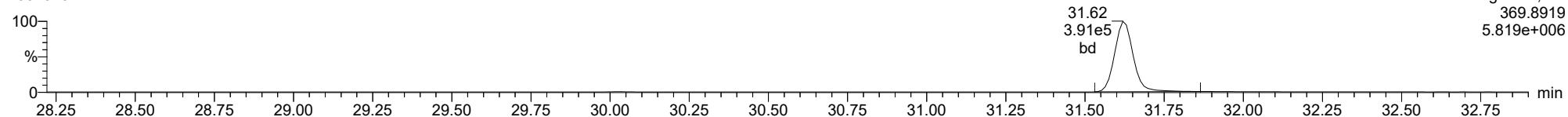
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23020104



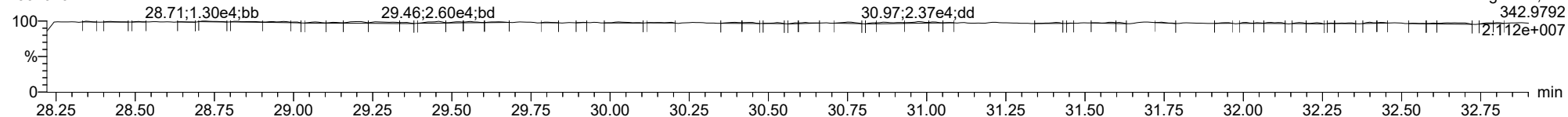
**13C-12378-PeCDD**

23020104



**FUNCTION2 PFK**

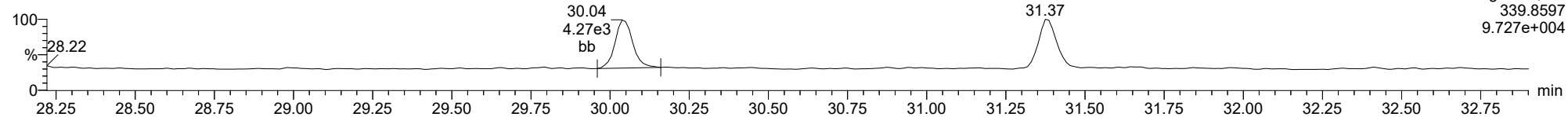
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

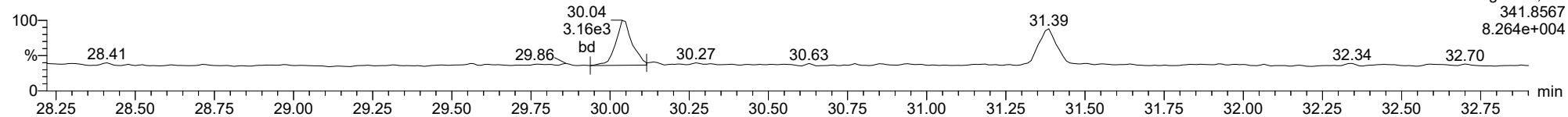
**12378-PeCDF**

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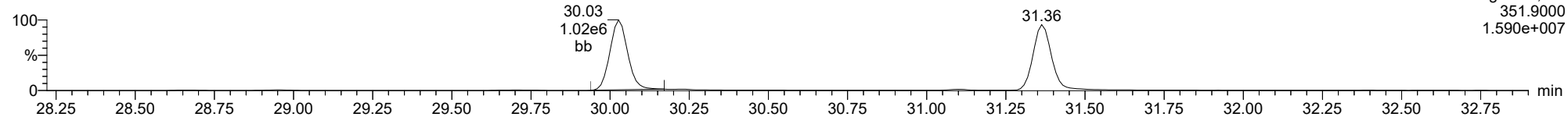
**12378-PeCDF**

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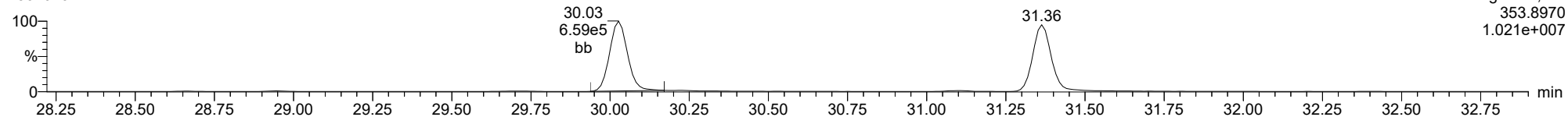
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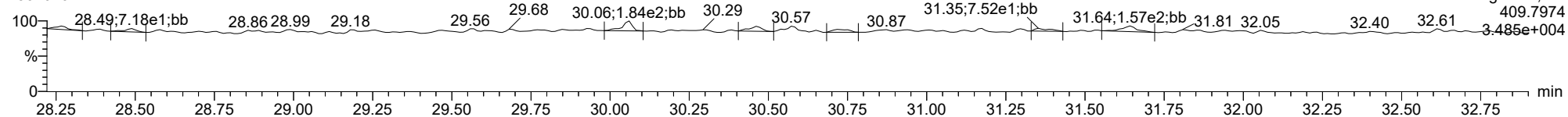
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23020104



**FUNCTION2 HPCDPE**

23020104

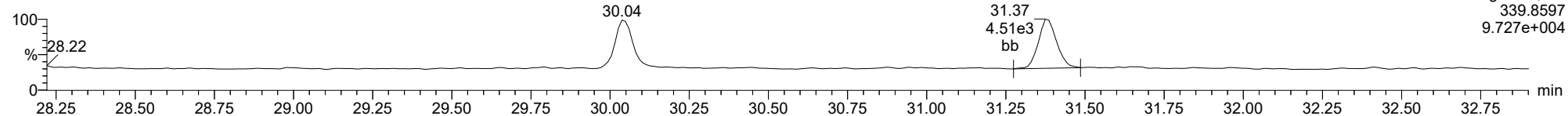




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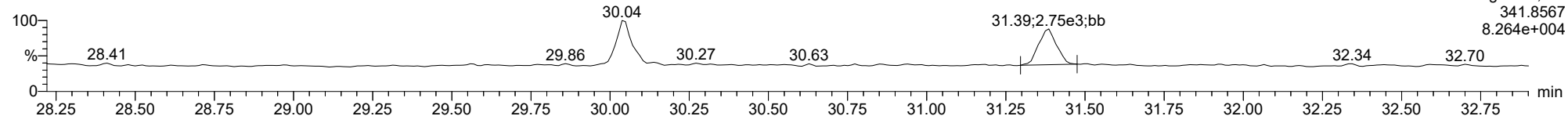
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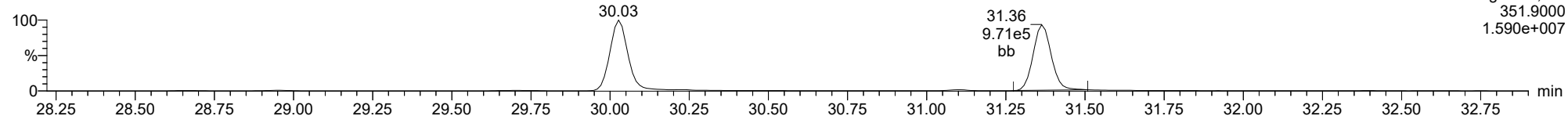
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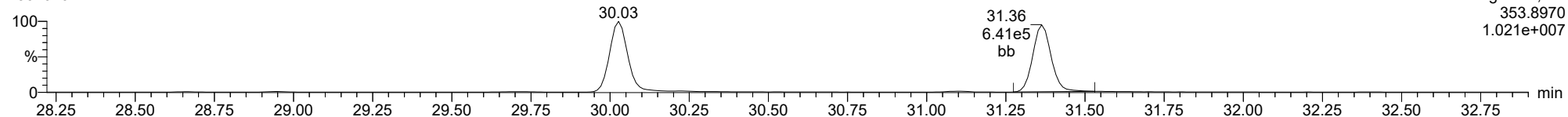
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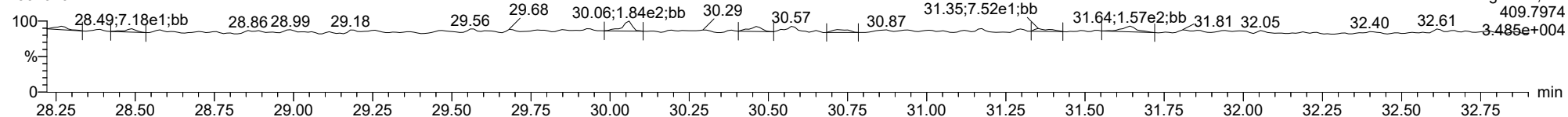
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**FUNCTION2 HPCDPE**

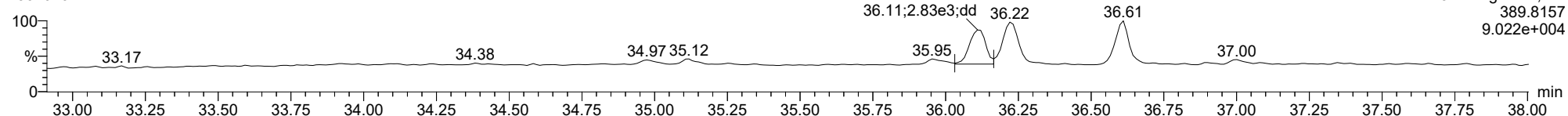
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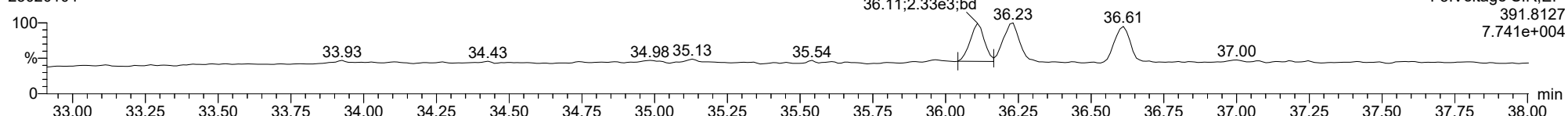
**123478-HxCDD**

23020104



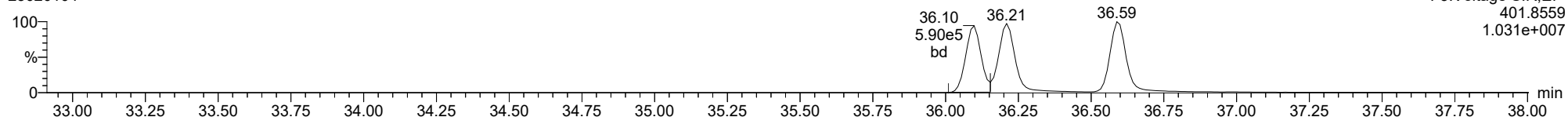
**123478-HxCDD**

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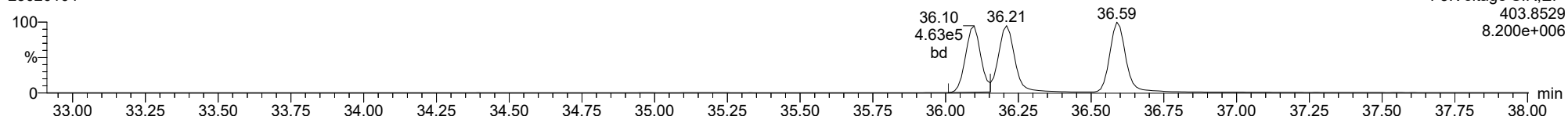
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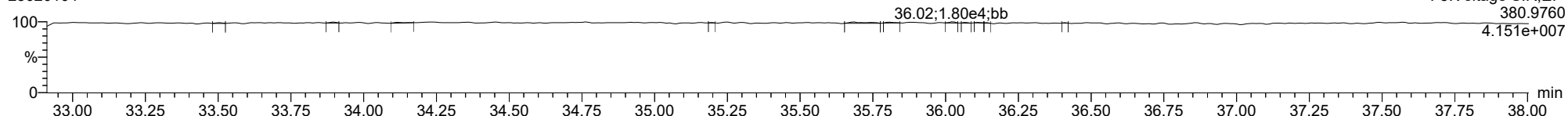
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23020104



**FUNCTION3 PFK**

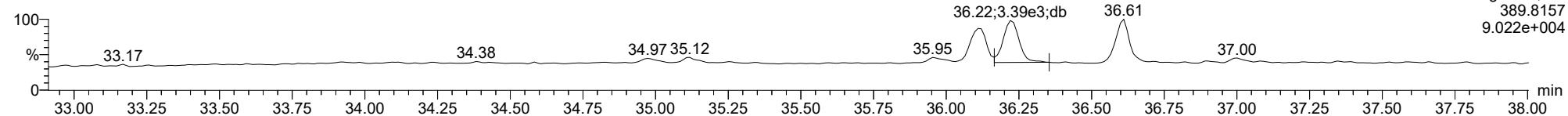
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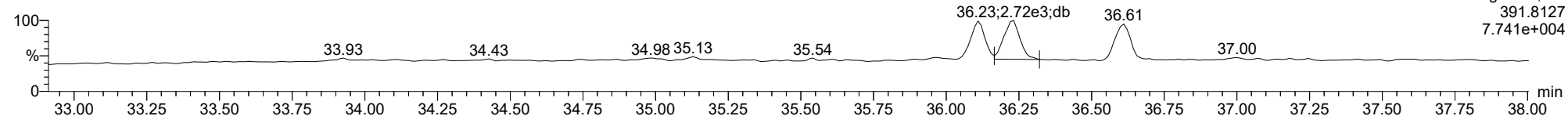
**123678-HxCDD**

23020104



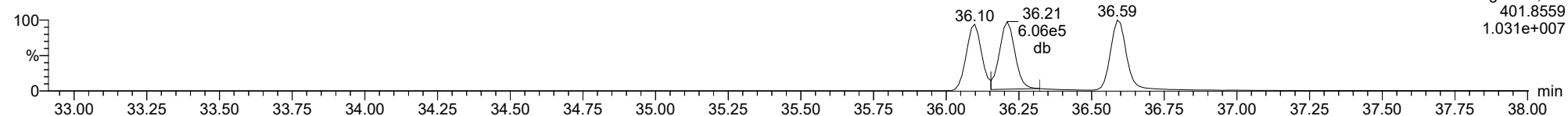
**123678-HxCDD**

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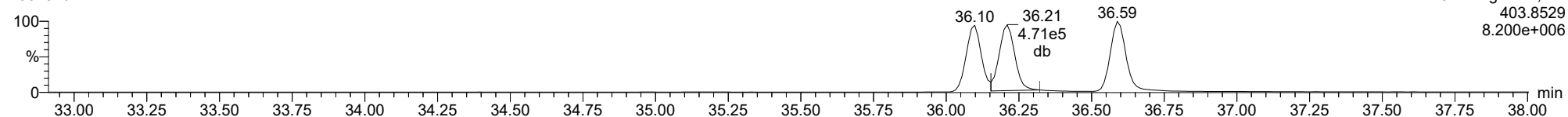
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**13C-123678-HxCDD**

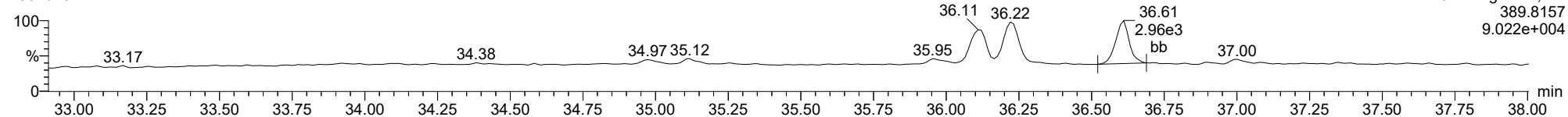
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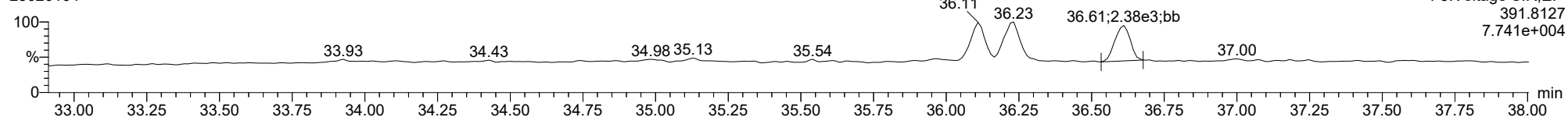
**123789-HxCDD**

23020104



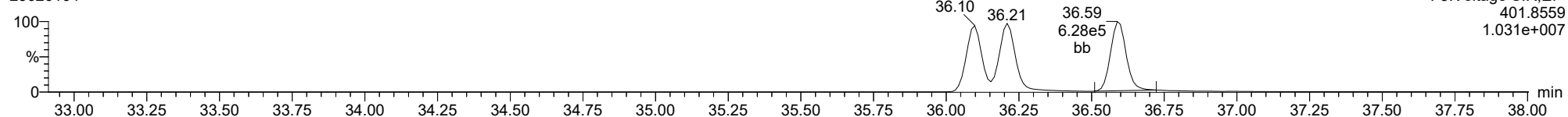
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23020104



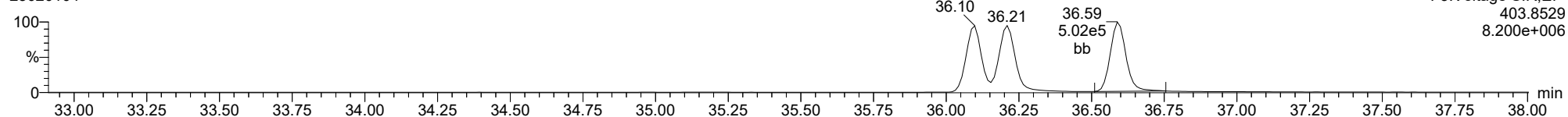
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23020104



**13C-123789-HxCDD**

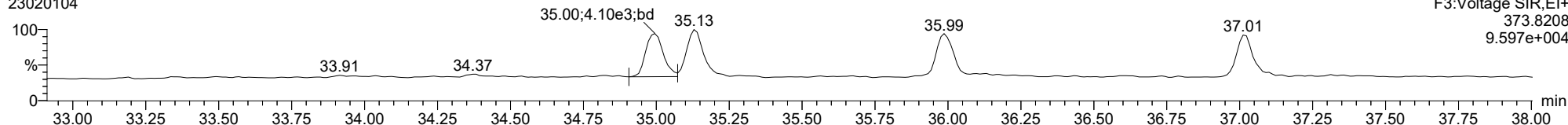
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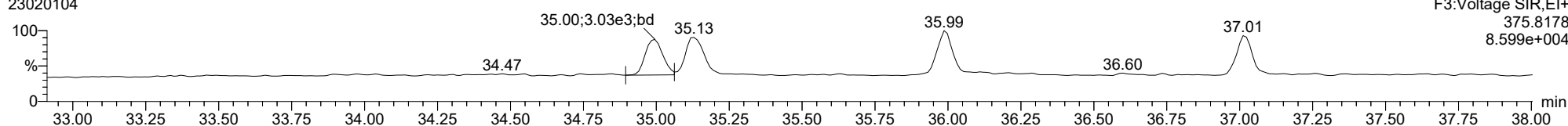
**123478-HxCDF**

23020104



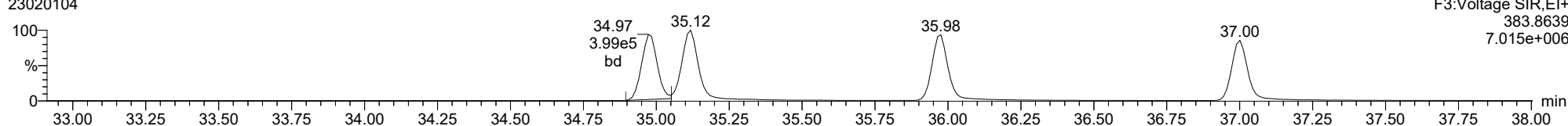
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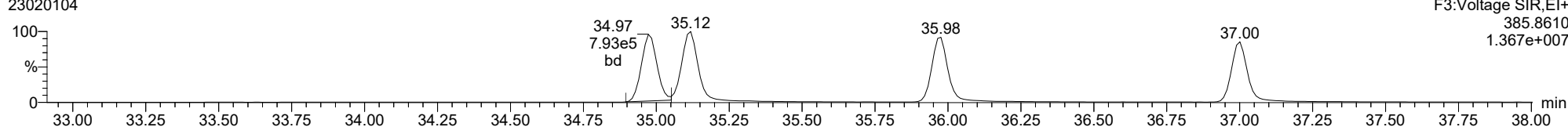
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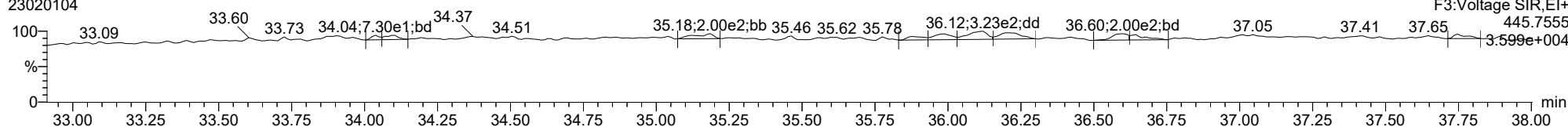
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23020104



**FUNCTION3 OCDPE**

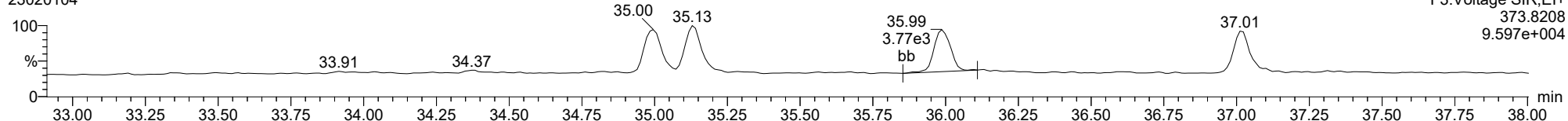
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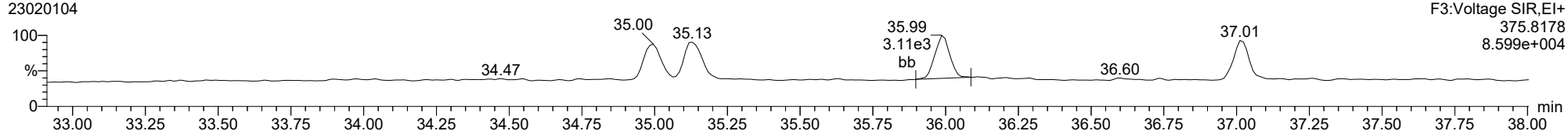
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23020104



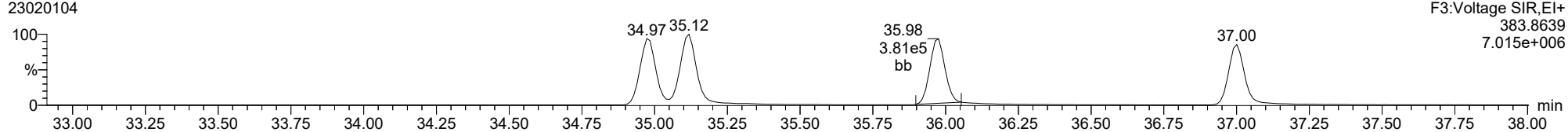
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23020104



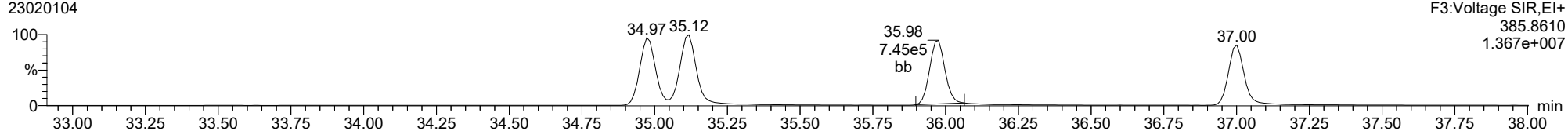
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23020104



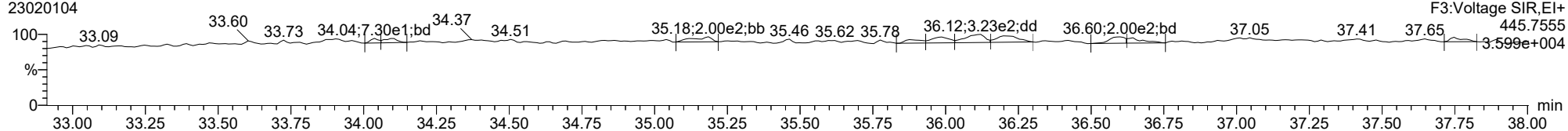
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**FUNCTION3 OCDPE**

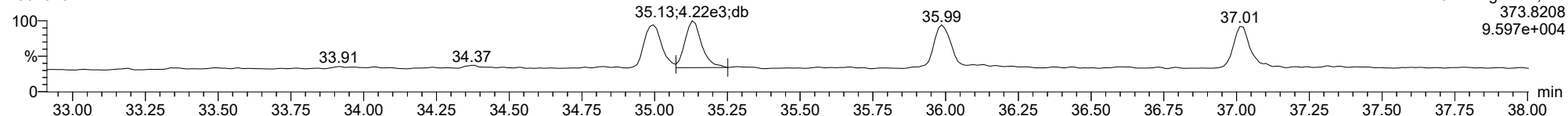
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

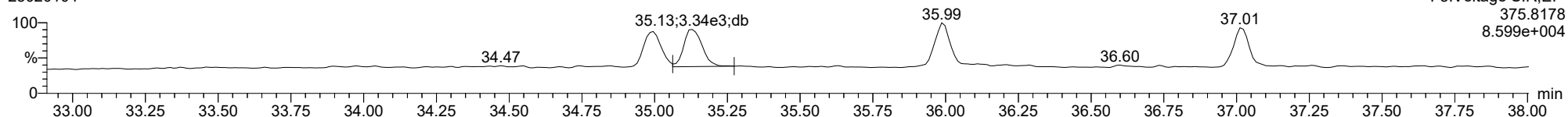
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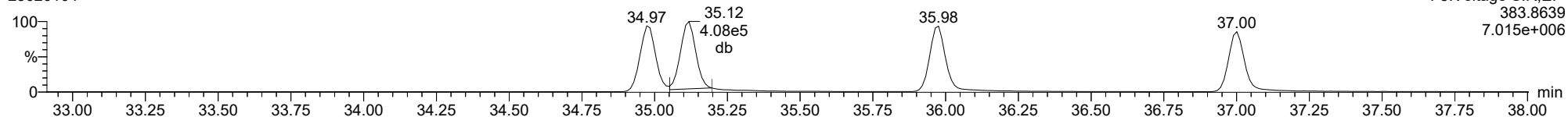
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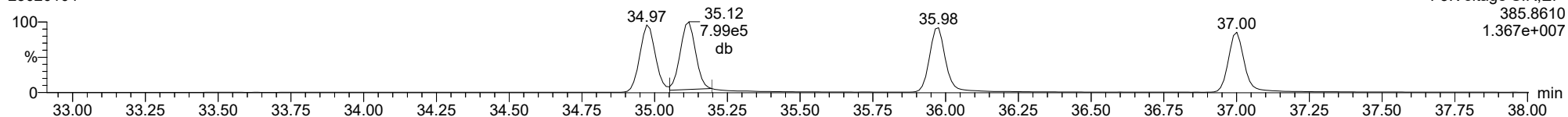
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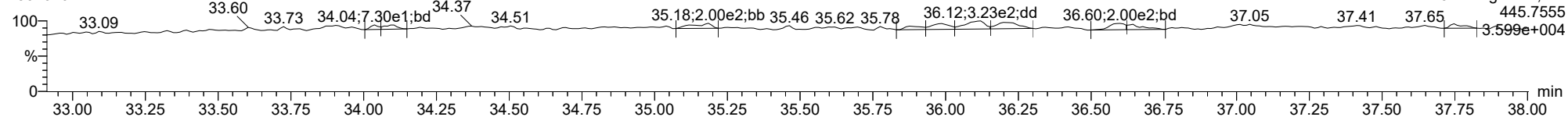
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**FUNCTION3 OCDPE**

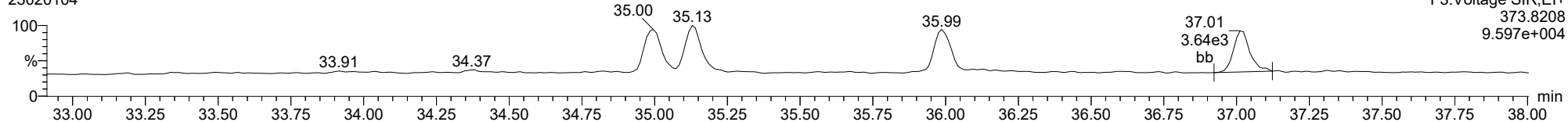
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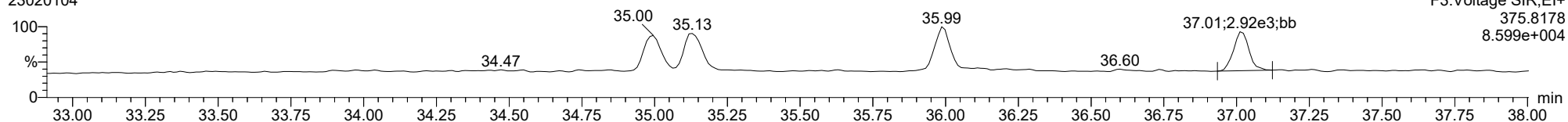
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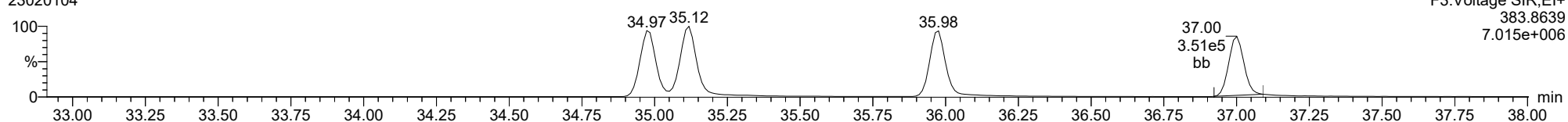
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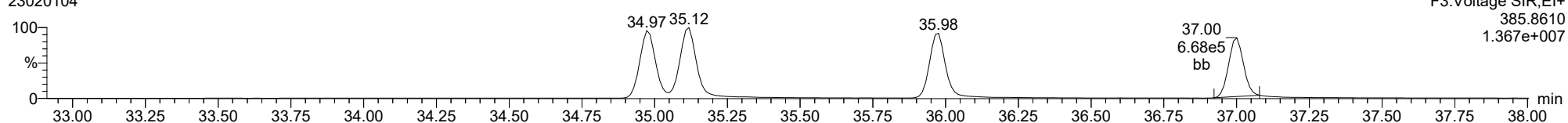
**13C-123789-HxCDF**

23020104



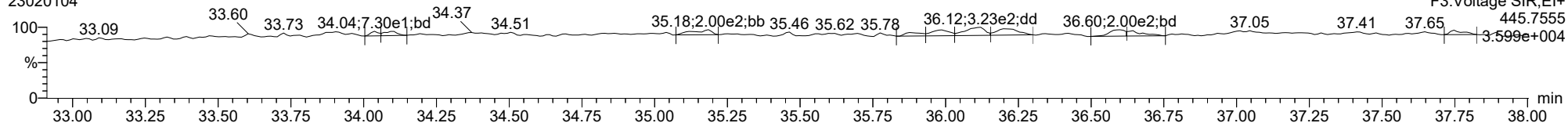
**13C-123789-HxCDF**

23020104



**FUNCTION3 OCDPE**

23020104

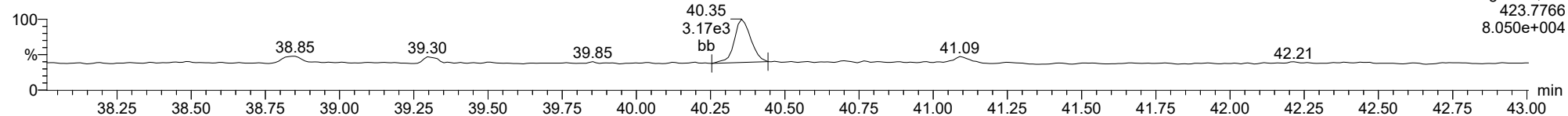




ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

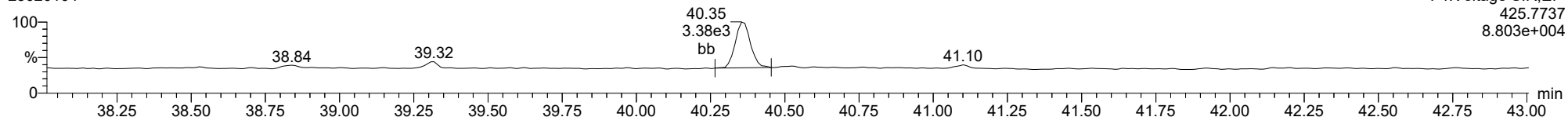
**1234678-HpCDD**

23020104



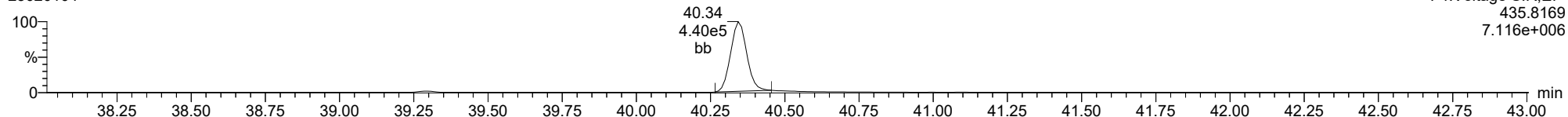
**1234678-HpCDD**

23020104



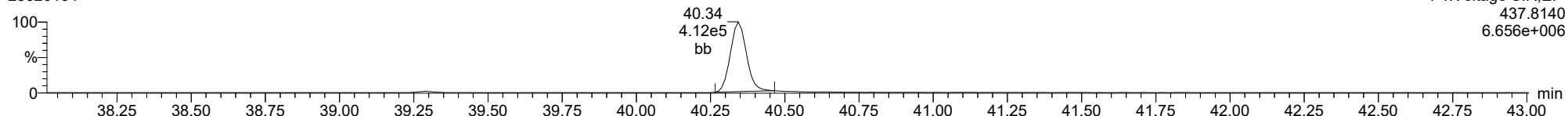
**13C-1234678-HpCDD**

23020104



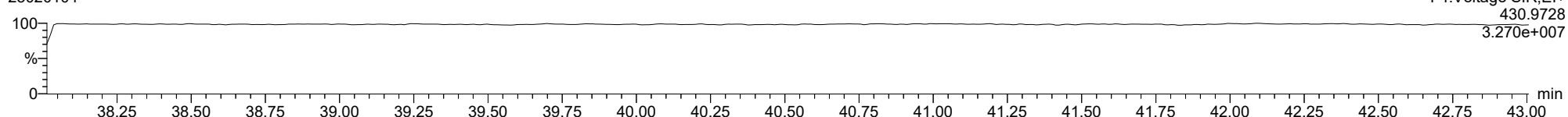
**13C-1234678-HpCDD**

23020104



**FUNCTION4 PFK**

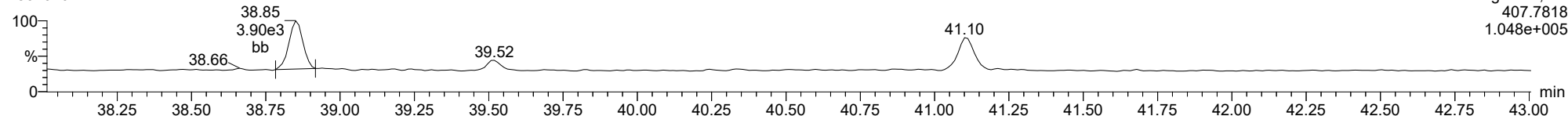
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

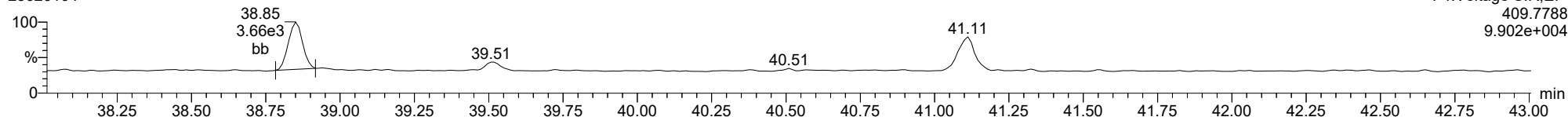
1234678-HpCDF

23020104



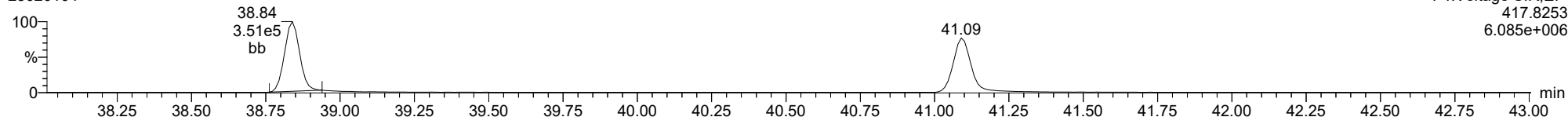
1234678-HpCDF

23020104



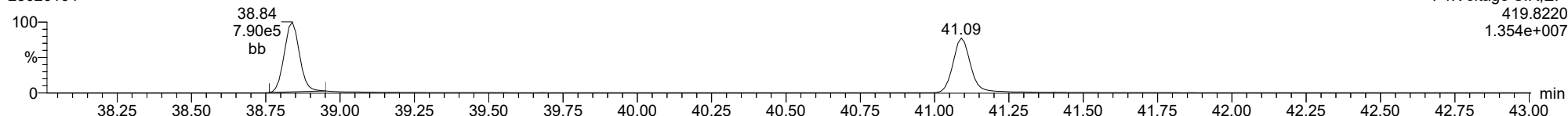
13C-1234678-HpCDF

23020104



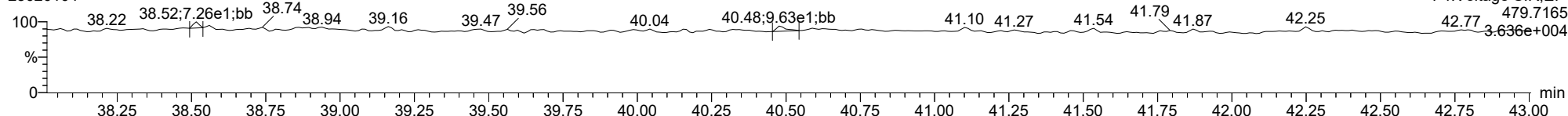
13C-1234678-HpCDF

23020104



FUNCTION4 NCDPE

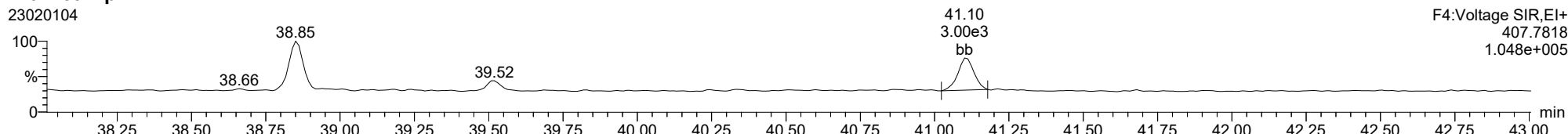
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

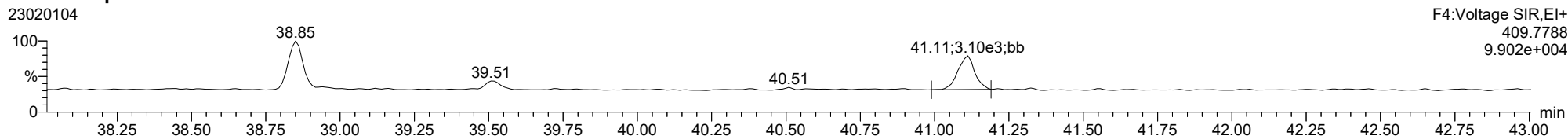
**1234789-HpCDF**

23020104



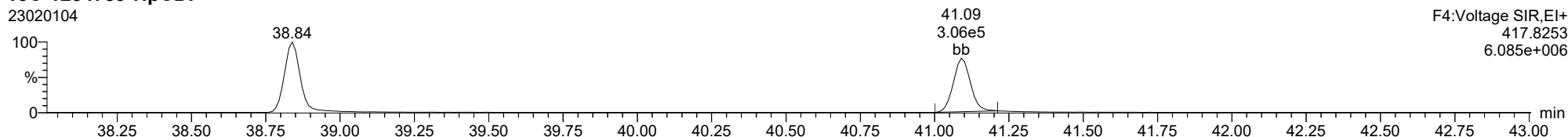
**1234789-HpCDF**

23020104



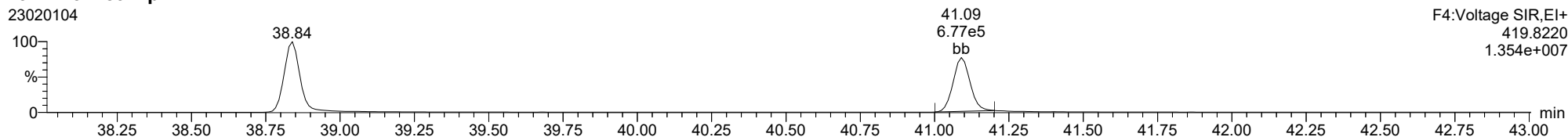
**13C-1234789-HpCDF**

23020104



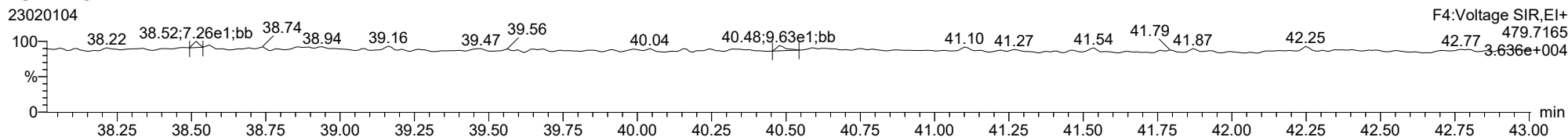
**13C-1234789-HpCDF**

23020104



**FUNCTION4 NCDPE**

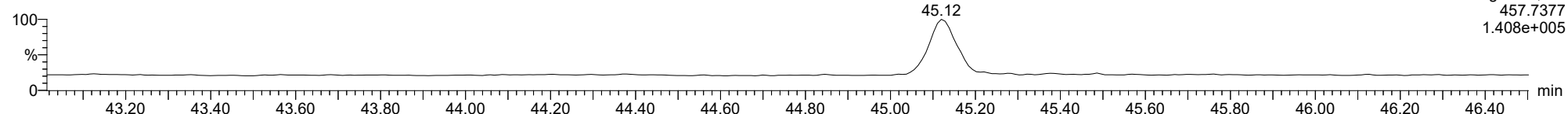
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

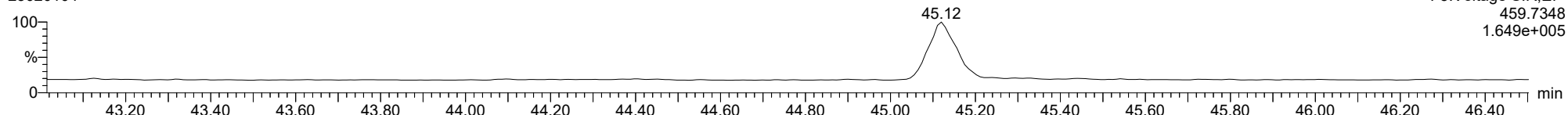
**OCDD**

23020104



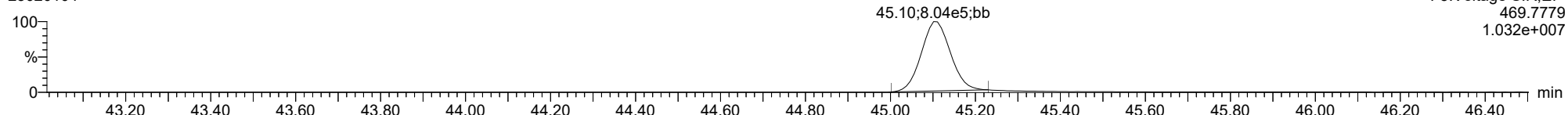
**OCDD**

23020104



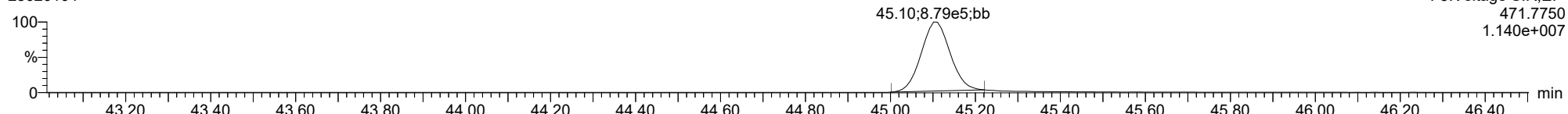
**13C-OCDD**

23020104



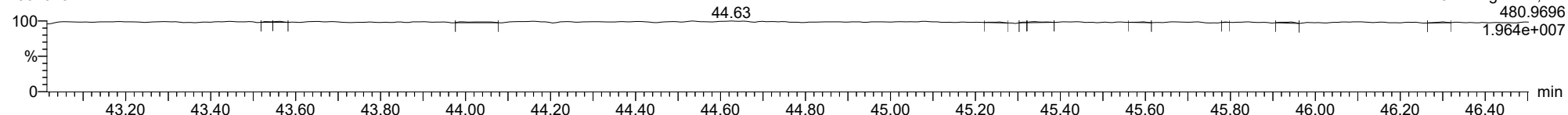
**13C-OCDD**

23020104

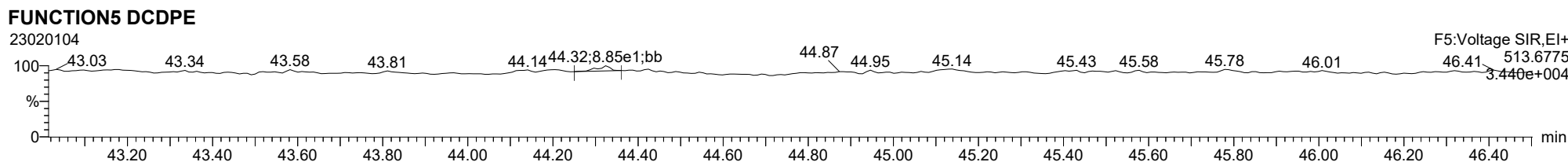
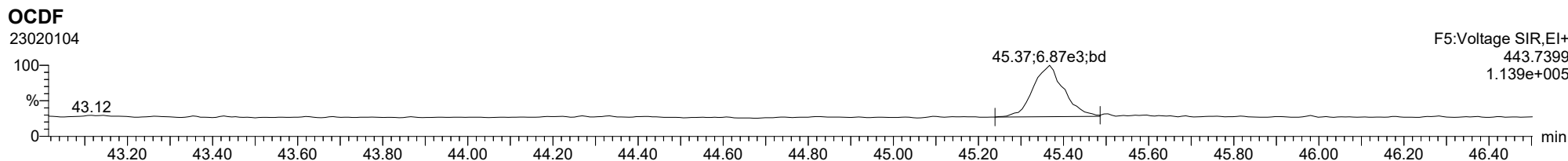
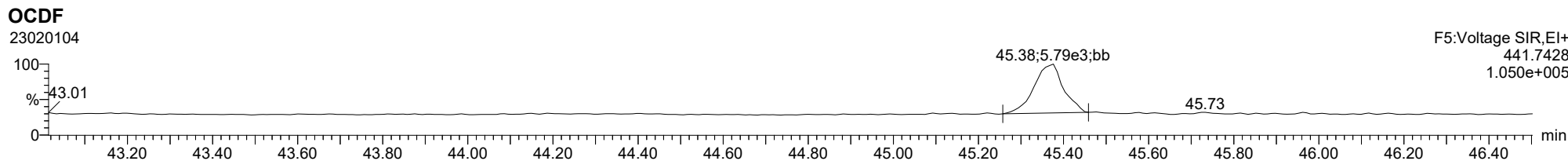


**FUNCTION5 PFK**

23020104



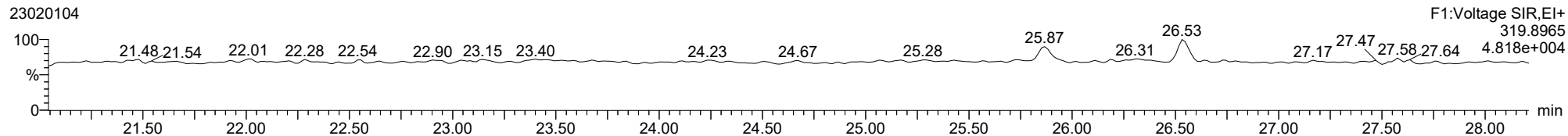
ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

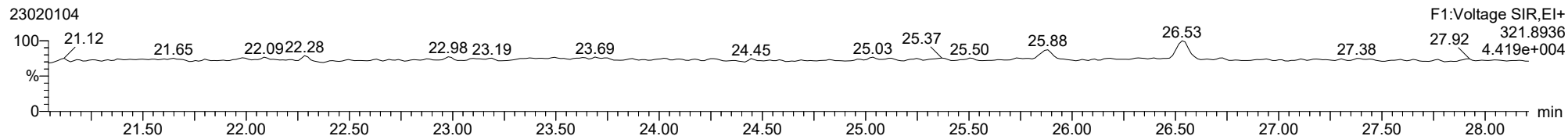
**Total-tetradoxins**

23020104



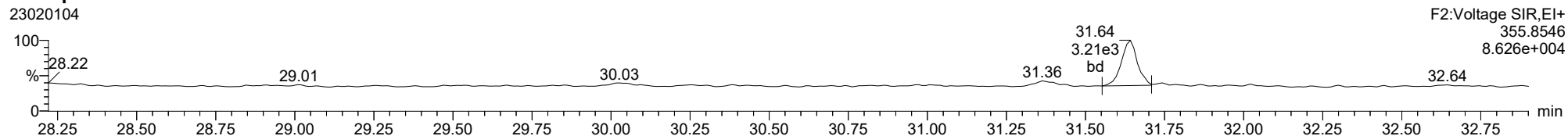
**Total-tetradoxins**

23020104



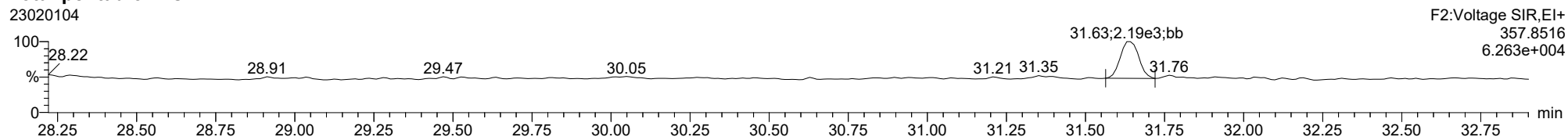
**Total-pentadoxins**

23020104



**Total-pentadoxins**

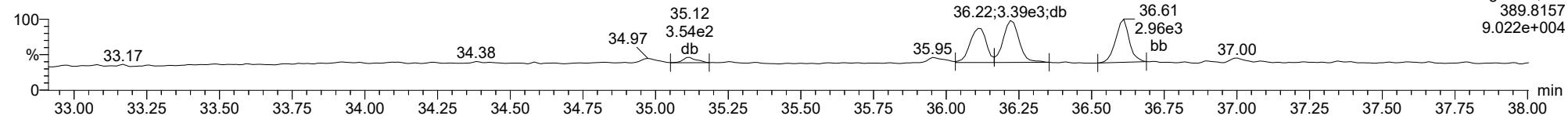
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

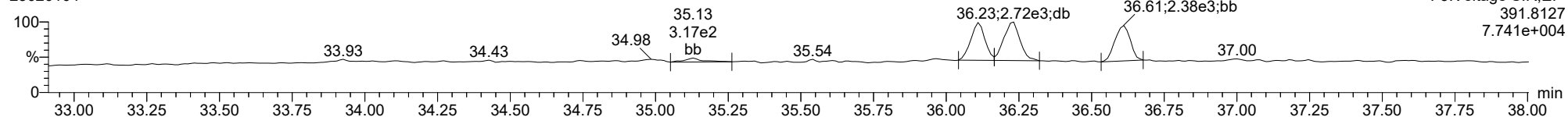
**Total-hexadioxins**

23020104



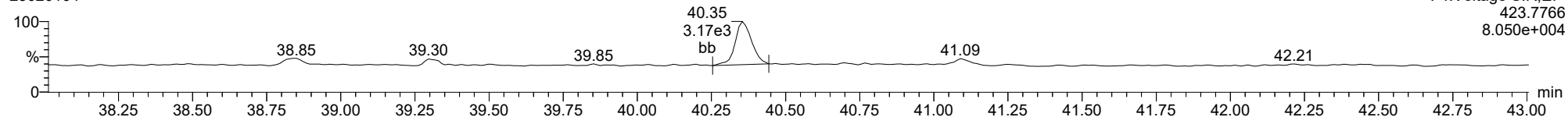
**Total-hexadioxins**

23020104



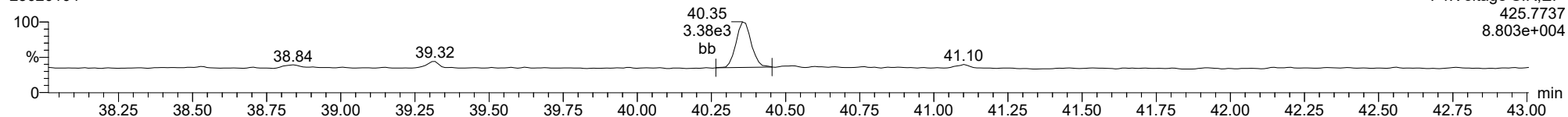
**Total-heptadioxins**

23020104



**Total-heptadioxins**

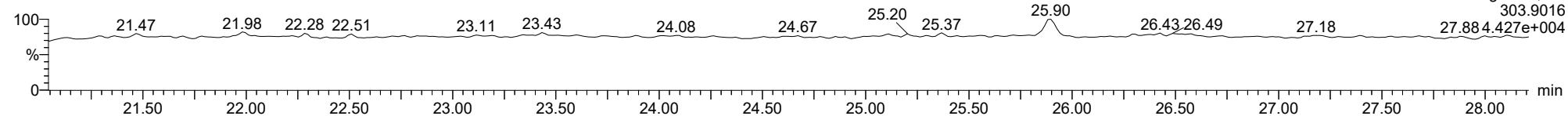
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

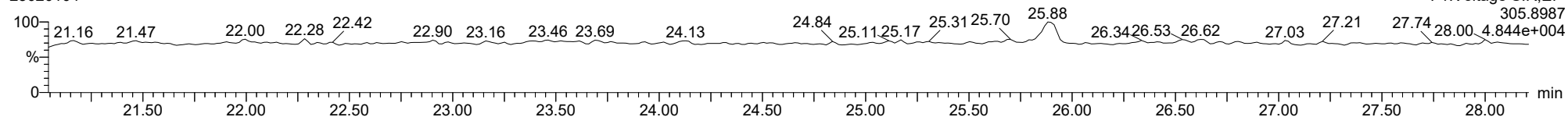
**Total-tetrafurans**

23020104



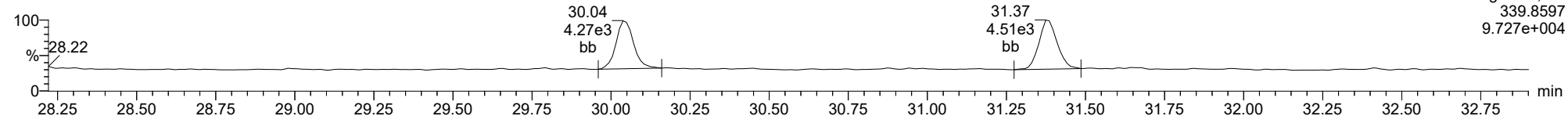
**Total-tetrafurans**

23020104



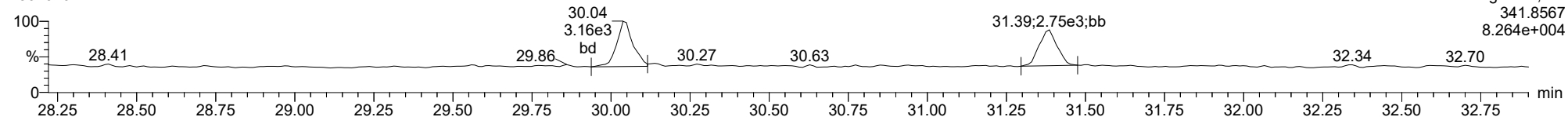
**Total-pentafurans**

23020104



**Total-pentafurans**

23020104

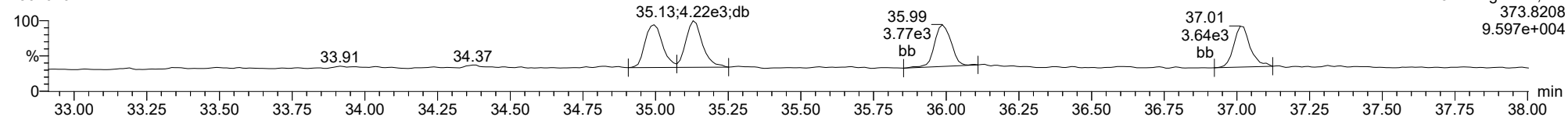




ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

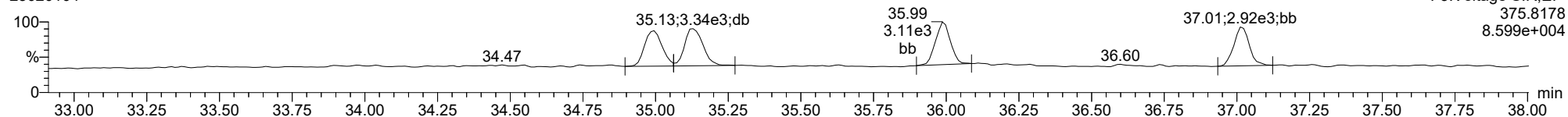
**Total-hexafurans**

23020104



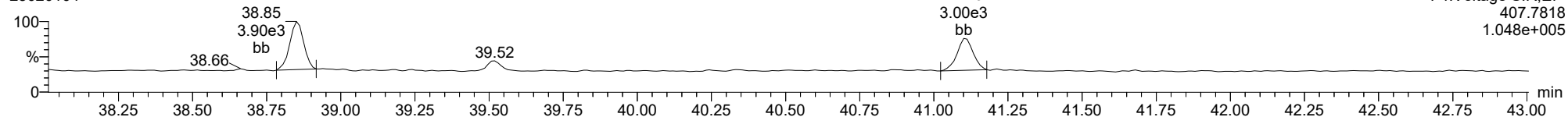
**Total-hexafurans**

23020104



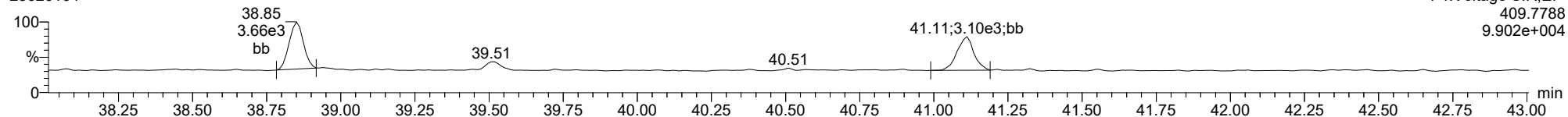
**Total-heptafurans**

23020104



**Total-heptafurans**

23020104



Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
 Calibration: 03 Feb 2023 10:33:40

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	3.165e3	3.812e3	0.876	0.830	0.770	851	1202	5.14e4	5.60e4	60.4	46.6	NO	db	bb	0.501
12378-PeCDF	30.048	1.000	1.657e4	1.122e4	0.845	1.477	1.550	1016	1248	2.51e5	1.73e5	247.1	138.5	NO	bb	bb	2.455
23478-PeCDF	31.385	1.000	1.669e4	1.174e4	0.911	1.422	1.550	1016	1248	2.63e5	1.81e5	259.2	145.3	NO	bb	bd	2.401
123478-HxCDF	35.006	1.001	1.544e4	1.249e4	1.182	1.236	1.240	890	1056	2.44e5	1.98e5	274.0	187.0	NO	bd	bd	2.494
234678-HxCDF	35.998	1.001	1.543e4	1.155e4	1.229	1.336	1.240	890	1056	2.60e5	1.91e5	292.0	180.6	NO	bd	bb	2.421
123678-HxCDF	35.140	1.001	1.636e4	1.318e4	1.248	1.241	1.240	890	1056	2.60e5	2.03e5	291.7	192.2	NO	dd	db	2.443
123789-HxCDF	37.023	1.000	1.293e4	1.008e4	1.187	1.282	1.240	890	1056	2.13e5	1.63e5	239.4	154.3	NO	bd	bb	2.372
1234678-HpCDF	38.861	1.000	1.439e4	1.337e4	1.204	1.077	1.050	1098	1117	2.42e5	2.23e5	220.8	199.9	NO	bb	bd	2.577
1234789-HpCDF	41.112	1.000	1.117e4	1.059e4	1.165	1.055	1.050	1098	1117	1.62e5	1.56e5	147.3	139.5	NO	bb	bb	2.411
OCDF	45.367	1.006	1.860e4	2.066e4	1.186	0.900	0.890	1237	861	2.12e5	2.52e5	171.2	292.2	NO	bb	bb	5.087
2378-TCDD	26.547	1.001	2.836e3	3.619e3	1.236	0.784	0.770	1261	742	4.26e4	5.78e4	33.8	77.9	NO	bb	bb	0.538
12378-PeCDD	31.642	1.000	1.354e4	8.892e3	1.087	1.522	1.550	1167	972	2.08e5	1.36e5	178.2	140.0	NO	bd	bd	2.535
123478-HxCDD	36.120	1.001	1.109e4	9.100e3	0.987	1.219	1.240	1079	803	1.88e5	1.54e5	174.2	191.5	NO	bd	bd	2.425
123678-HxCDD	36.232	1.000	1.193e4	1.017e4	1.021	1.173	1.240	1079	803	2.08e5	1.71e5	192.4	213.0	NO	db	dd	2.523
123789-HxCDD	36.611	1.011	1.141e4	9.550e3	0.985	1.195	1.240	1079	803	1.90e5	1.59e5	175.6	197.5	NO	bb	bd	2.499
1234678-HpCDD	40.365	1.000	1.047e4	1.022e4	1.253	1.025	1.050	924	912	1.67e5	1.57e5	180.8	172.2	NO	bb	bb	2.439
OCDD	45.129	1.000	2.025e4	2.243e4	1.103	0.903	0.890	770	1015	2.54e5	2.74e5	329.8	270.4	NO	bb	bb	5.948
13C-2378-TCDF	25.882	1.007	6.992e5	8.909e5	1.768	0.785	0.770	1890	1690	1.07e7	1.37e7	5679.3	8103.6	NO	bb	bb	99.523
13C-12378-PeCDF	30.037	1.168	8.127e5	5.274e5	1.527	1.541	1.550	2822	3217	1.25e7	8.12e6	4447.1	2523.6	NO	bb	bb	97.112
13C-23478-PeCDF	31.374	1.220	7.914e5	5.082e5	1.466	1.557	1.550	2822	3217	1.22e7	7.90e6	4335.0	2456.5	NO	bb	bb	98.086
13C-123478-HxCDF	34.984	0.956	3.203e5	6.270e5	1.054	0.511	0.510	2242	2569	5.23e6	1.03e7	2333.1	3994.8	NO	bd	bd	102.287
13C-123678-HxCDF	35.118	0.960	3.331e5	6.354e5	1.080	0.524	0.510	2242	2569	5.30e6	1.04e7	2362.3	4050.9	NO	db	db	102.033
13C-234678-HxCDF	35.975	0.983	3.012e5	6.055e5	1.014	0.497	0.510	2242	2569	5.04e6	1.01e7	2247.8	3935.5	NO	bb	bb	101.688
13C-123789-HxCDF	37.012	1.011	2.780e5	5.398e5	0.928	0.515	0.510	2242	2569	4.60e6	8.89e6	2053.4	3459.1	NO	bb	bb	100.261
13C-1234678-HpCDF	38.850	1.061	2.750e5	6.195e5	1.036	0.444	0.440	2698	3387	4.63e6	1.03e7	1714.9	3048.9	NO	bb	bb	98.218
13C-1234789-HpCDF	41.100	1.123	2.400e5	5.347e5	0.905	0.449	0.440	2698	3387	3.64e6	7.83e6	1350.8	2311.2	NO	bb	bb	97.391
13C-1234-TCDD	25.715	0.000	4.030e5	5.006e5	1.000	0.805	0.770	2070	1290	6.17e6	7.63e6	2981.3	5910.4	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.031	4.334e5	5.370e5	1.103	0.807	0.770	2070	1290	6.64e6	8.43e6	3208.6	6536.2	NO	bb	bb	97.361
13C-12378-PeCDD	31.630	1.230	5.002e5	3.141e5	0.914	1.593	1.550	1571	1429	7.70e6	4.72e6	4905.0	3303.0	NO	bb	bd	98.574
13C-123478-HxCDD	36.098	0.986	4.774e5	3.663e5	0.933	1.303	1.240	2711	2219	7.76e6	6.04e6	2862.5	2723.9	NO	bd	bd	102.880
13C-123678-HxCDD	36.221	0.990	4.780e5	3.801e5	0.965	1.258	1.240	2711	2219	7.94e6	6.30e6	2926.7	2837.8	NO	db	db	101.203
13C-1234678-HpCDD	40.354	1.103	3.494e5	3.280e5	0.782	1.065	1.050	1617	1571	5.50e6	5.16e6	3401.2	3284.5	NO	bb	bb	98.546
13C-OCDD	45.111	1.233	6.222e5	6.790e5	0.788	0.916	0.890	1719	2376	7.89e6	8.58e6	4588.0	3611.7	NO	bb	bb	187.800
13C-123789-HxCDD	36.599	0.000	4.932e5	3.858e5	1.000	1.278	1.240	2711	2219	8.15e6	6.30e6	3006.5	2840.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.547	1.032	5.621e3		1.233			1648		8.22e4		49.9			bb		0.504

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

**ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	851	1202								
1289-TCDF					0.858		0.770	851	1202								
13468-PECDF					1.013		1.550	923	968								
12389-PECDF					0.844		1.550	1016	1248								
123468-HXCDF					1.197		1.240	890	1056								
1368-TCDD					1.084		0.770	1261	742								
1289-TCDD					0.975		0.770	1261	742								
12479-PECDD					1.837		1.550	1167	972								
12389-PECDD					1.252		1.550	1167	972								
124679-HXCDD					1.033		1.240	1079	803								
1234679-HPCDD					1.286		1.050	924	912								
Total-tetrafurans			3.165e3		0.933			851		5.14e4							0.501
Total-penta1			0.000e0					923		0.00e0							
Total-pentafurans			3.326e4		0.866			1016		5.14e5							4.856
Total-hexafurans			6.015e4		1.208			890		9.76e5							9.731
Total-heptafurans			2.643e4		1.185			1098		4.18e5							5.166
Total-Furans			1.416e5		1.067			851		2.17e6							25.340
Total-tetradoxins			2.907e3		1.099			1261		4.45e4							0.554
Total-pentadoxins			1.372e4		1.392			1167		2.12e5							2.561
Total-hexadoxins			3.443e4		1.007			1079		5.85e5							7.448
Total-heptadoxins			1.047e4		1.269			924		1.67e5							2.439
Total-Dioxins			8.178e4		1.165			1261		1.26e6							18.950
Total-TEQ			2.234e5					1261		3.43e6							44.290
FUNCTION1 PFK			2.400e7					626106		1.90e8							
FUNCTION2 PFK			0.000e0					236572		0.00e0							
FUNCTION3 PFK			4.302e5					501624		1.34e7							0.000
FUNCTION4 PFK			4.347e5					324457		1.19e7							
FUNCTION5 PFK			8.590e4					209539		3.93e6							
FUNCTION1 HXCD...			1.828e3					784		2.65e4							0.000
FUNCTION1 HPCD...			8.634e2					852		1.29e4							0.000
FUNCTION2 HPCD...			2.922e2					978		5.26e3							0.000
FUNCTION3 OCDPE			8.271e2					835		1.40e4							0.000
FUNCTION4 NCDPE			1.900e2					822		4.03e3							0.000
FUNCTION5 DCDPE			0.000e0					732		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: 03 Feb 2023 10:33:40****ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	3.165e3	3.812e3	0.876	0.83	0.77	60.4	YES	NO	db	bb	0.501

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.39	1.669e4	1.174e4	0.911	1.42	1.55	259.2	YES	NO	bb	bd	2.401
2	12378-PeCDF	30.05	1.657e4	1.122e4	0.845	1.48	1.55	247.1	YES	NO	bb	bb	2.455

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.02	1.293e4	1.008e4	1.187	1.28	1.24	239.4	YES	NO	bd	bb	2.372
2	234678-HxCDF	36.00	1.543e4	1.155e4	1.229	1.34	1.24	292.0	YES	NO	bd	bb	2.421
3	123678-HxCDF	35.14	1.636e4	1.318e4	1.248	1.24	1.24	291.7	YES	NO	dd	db	2.443
4	123478-HxCDF	35.01	1.544e4	1.249e4	1.182	1.24	1.24	274.0	YES	NO	bd	bd	2.494

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	1.117e4	1.059e4	1.165	1.05	1.05	147.3	YES	NO	bb	bb	2.411
2	Total-heptafurans	39.52	8.567e2	9.013e2	1.185	0.95	1.05	12.7	YES	NO	bb	bb	0.178
3	1234678-HpCDF	38.86	1.439e4	1.337e4	1.204	1.08	1.05	220.8	YES	NO	bb	bd	2.577

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

**ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	3.165e3	3.812e3	0.876	0.83	0.77	60.4	YES	NO	db	bb	0.501
2	23478-PeCDF	31.39	1.669e4	1.174e4	0.911	1.42	1.55	259.2	YES	NO	bb	bd	2.401
3	12378-PeCDF	30.05	1.657e4	1.122e4	0.845	1.48	1.55	247.1	YES	NO	bb	bb	2.455
4	123789-HxCDF	37.02	1.293e4	1.008e4	1.187	1.28	1.24	239.4	YES	NO	bd	bb	2.372
5	234678-HxCDF	36.00	1.543e4	1.155e4	1.229	1.34	1.24	292.0	YES	NO	bd	bb	2.421
6	123678-HxCDF	35.14	1.636e4	1.318e4	1.248	1.24	1.24	291.7	YES	NO	dd	db	2.443
7	123478-HxCDF	35.01	1.544e4	1.249e4	1.182	1.24	1.24	274.0	YES	NO	bd	bd	2.494
8	1234789-HpCDF	41.11	1.117e4	1.059e4	1.165	1.05	1.05	147.3	YES	NO	bb	bb	2.411
9	Total-heptafurans	39.52	8.567e2	9.013e2	1.185	0.95	1.05	12.7	YES	NO	bb	bb	0.178
10	1234678-HpCDF	38.86	1.439e4	1.337e4	1.204	1.08	1.05	220.8	YES	NO	bb	bd	2.577
11	OCDF	45.37	1.860e4	2.066e4	1.186	0.90	0.89	171.2	YES	NO	bb	bb	5.087

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	24.26	7.113e1	9.739e1	1.099	0.73	0.77	1.5	NO	NO	bb	bb	0.016
2	2378-TCDD	26.55	2.836e3	3.619e3	1.236	0.78	0.77	33.8	YES	NO	bb	bb	0.538

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadoxins	31.80	1.875e2	1.127e2	1.392	1.66	1.55	3.4	YES	NO	db	db	0.026
2	12378-PeCDD	31.64	1.354e4	8.892e3	1.087	1.52	1.55	178.2	YES	NO	bd	bd	2.535

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	1.141e4	9.550e3	0.985	1.19	1.24	175.6	YES	NO	bb	bd	2.499
2	123678-HxCDD	36.23	1.193e4	1.017e4	1.021	1.17	1.24	192.4	YES	NO	db	dd	2.523
3	123478-HxCDD	36.12	1.109e4	9.100e3	0.987	1.22	1.24	174.2	YES	NO	bd	bd	2.425

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	1.047e4	1.022e4	1.253	1.02	1.05	180.8	YES	NO	bb	bb	2.439

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

**ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk**

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradiioxins	24.26	7.113e1	9.739e1	1.099	0.73	0.77	1.5	NO	NO	bb	bb	0.016
2	2378-TCDD	26.55	2.836e3	3.619e3	1.236	0.78	0.77	33.8	YES	NO	bb	bb	0.538
3	Total-pentadiioxins	31.80	1.875e2	1.127e2	1.392	1.66	1.55	3.4	YES	NO	db	db	0.026
4	12378-PeCDD	31.64	1.354e4	8.892e3	1.087	1.52	1.55	178.2	YES	NO	bd	bd	2.535
5	123789-HxCDD	36.61	1.141e4	9.550e3	0.985	1.19	1.24	175.6	YES	NO	bb	bd	2.499
6	123678-HxCDD	36.23	1.193e4	1.017e4	1.021	1.17	1.24	192.4	YES	NO	db	dd	2.523
7	123478-HxCDD	36.12	1.109e4	9.100e3	0.987	1.22	1.24	174.2	YES	NO	bd	bd	2.425
8	1234678-HpCDD	40.37	1.047e4	1.022e4	1.253	1.02	1.05	180.8	YES	NO	bb	bb	2.439
9	OCDD	45.13	2.025e4	2.243e4	1.103	0.90	0.89	329.8	YES	NO	bb	bb	5.948

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	3.165e3	3.812e3	0.876	0.83	0.77	60.4	YES	NO	db	bb	0.501
2	23478-PeCDF	31.39	1.669e4	1.174e4	0.911	1.42	1.55	259.2	YES	NO	bb	bd	2.401
3	12378-PeCDF	30.05	1.657e4	1.122e4	0.845	1.48	1.55	247.1	YES	NO	bb	bb	2.455
4	123789-HxCDF	37.02	1.293e4	1.008e4	1.187	1.28	1.24	239.4	YES	NO	bd	bb	2.372
5	234678-HxCDF	36.00	1.543e4	1.155e4	1.229	1.34	1.24	292.0	YES	NO	bd	bb	2.421
6	123678-HxCDF	35.14	1.636e4	1.318e4	1.248	1.24	1.24	291.7	YES	NO	dd	db	2.443
7	123478-HxCDF	35.01	1.544e4	1.249e4	1.182	1.24	1.24	274.0	YES	NO	bd	bd	2.494
8	1234789-HpCDF	41.11	1.117e4	1.059e4	1.165	1.05	1.05	147.3	YES	NO	bb	bb	2.411
9	Total-heptafurans	39.52	8.567e2	9.013e2	1.185	0.95	1.05	12.7	YES	NO	bb	bb	0.178
10	1234678-HpCDF	38.86	1.439e4	1.337e4	1.204	1.08	1.05	220.8	YES	NO	bb	bd	2.577
11	OCDF	45.37	1.860e4	2.066e4	1.186	0.90	0.89	171.2	YES	NO	bb	bb	5.087
12	Total-tetradiioxins	24.26	7.113e1	9.739e1	1.099	0.73	0.77	1.5	NO	NO	bb	bb	0.016
13	2378-TCDD	26.55	2.836e3	3.619e3	1.236	0.78	0.77	33.8	YES	NO	bb	bb	0.538
14	Total-pentadiioxins	31.80	1.875e2	1.127e2	1.392	1.66	1.55	3.4	YES	NO	db	db	0.026
15	12378-PeCDD	31.64	1.354e4	8.892e3	1.087	1.52	1.55	178.2	YES	NO	bd	bd	2.535
16	123789-HxCDD	36.61	1.141e4	9.550e3	0.985	1.19	1.24	175.6	YES	NO	bb	bd	2.499
17	123678-HxCDD	36.23	1.193e4	1.017e4	1.021	1.17	1.24	192.4	YES	NO	db	dd	2.523
18	123478-HxCDD	36.12	1.109e4	9.100e3	0.987	1.22	1.24	174.2	YES	NO	bd	bd	2.425
19	1234678-HpCDD	40.37	1.047e4	1.022e4	1.253	1.02	1.05	180.8	YES	NO	bb	bb	2.439
20	OCDD	45.13	2.025e4	2.243e4	1.103	0.90	0.89	329.8	YES	NO	bb	bb	5.948

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

**ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.24	1.348e6					15.3	YES		dd		
2	FUNCTION1 PFK	22.18	4.644e5					16.9	YES		dd		
3	FUNCTION1 PFK	22.16	1.313e6					16.6	YES		dd		
4	FUNCTION1 PFK	21.98	1.487e6					20.5	YES		dd		
5	FUNCTION1 PFK	21.88	1.450e6					22.1	YES		dd		
6	FUNCTION1 PFK	21.72	1.801e6					24.8	YES		dd		
7	FUNCTION1 PFK	21.60	1.955e6					26.8	YES		dd		
8	FUNCTION1 PFK	21.39	6.532e6					30.5	YES		dd		
9	FUNCTION1 PFK	21.12	3.552e6					35.4	YES		bd		
10	FUNCTION1 PFK	24.35	3.975e3					0.4	NO		bb		
11	FUNCTION1 PFK	24.08	2.445e4					0.9	NO		bb		
12	FUNCTION1 PFK	23.89	1.855e4					1.0	NO		bb		
13	FUNCTION1 PFK	23.81	2.526e4					1.3	NO		bb		
14	FUNCTION1 PFK	23.73	2.606e4					1.2	NO		db		
15	FUNCTION1 PFK	23.63	3.953e4					0.9	NO		bd		
16	FUNCTION1 PFK	23.40	1.725e4					0.8	NO		db		
17	FUNCTION1 PFK	23.36	2.281e4					0.8	NO		bd		
18	FUNCTION1 PFK	23.28	4.142e4					1.3	NO		bb		
19	FUNCTION1 PFK	23.08	3.989e4					1.2	NO		db		
20	FUNCTION1 PFK	23.01	5.719e4					2.6	NO		dd		
21	FUNCTION1 PFK	22.78	6.498e5					6.6	YES		dd		
22	FUNCTION1 PFK	22.62	7.070e5					9.1	YES		dd		
23	FUNCTION1 PFK	22.51	7.554e5					10.8	YES		dd		
24	FUNCTION1 PFK	22.43	4.428e5					12.6	YES		dd		
25	FUNCTION1 PFK	22.39	4.834e5					13.1	YES		dd		
26	FUNCTION1 PFK	26.44	1.834e4					0.9	NO		bb		
27	FUNCTION1 PFK	26.31	1.630e4					0.8	NO		db		
28	FUNCTION1 PFK	26.24	2.476e4					1.0	NO		bd		
29	FUNCTION1 PFK	26.17	2.817e4					1.0	NO		bb		
30	FUNCTION1 PFK	26.03	3.473e4					1.3	NO		db		
31	FUNCTION1 PFK	25.97	2.971e4					1.1	NO		dd		
32	FUNCTION1 PFK	25.90	2.965e4					1.4	NO		bd		
33	FUNCTION1 PFK	25.84	6.319e3					0.7	NO		bb		
34	FUNCTION1 PFK	25.76	2.805e4					1.0	NO		db		
35	FUNCTION1 PFK	25.69	1.550e4					0.7	NO		bd		
36	FUNCTION1 PFK	25.43	1.865e4					0.8	NO		bb		
37	FUNCTION1 PFK	25.29	2.496e4					1.2	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

**ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	25.16	1.218e4					0.7	NO		bb		
39	FUNCTION1 PFK	24.90	4.251e4					1.2	NO		bb		
40	FUNCTION1 PFK	24.82	9.911e3					0.6	NO		bb		
41	FUNCTION1 PFK	24.70	1.084e4					0.7	NO		bb		
42	FUNCTION1 PFK	28.13	1.191e4					0.5	NO		bb		
43	FUNCTION1 PFK	28.06	1.157e4					0.7	NO		bb		
44	FUNCTION1 PFK	27.94	2.880e4					1.2	NO		bb		
45	FUNCTION1 PFK	27.73	2.725e4					1.2	NO		db		
46	FUNCTION1 PFK	27.65	2.104e4					0.9	NO		bd		
47	FUNCTION1 PFK	27.53	9.466e3					0.5	NO		bb		
48	FUNCTION1 PFK	27.45	2.859e4					0.9	NO		db		
49	FUNCTION1 PFK	27.32	3.854e4					1.1	NO		bd		
50	FUNCTION1 PFK	27.18	2.011e4					0.9	NO		db		
51	FUNCTION1 PFK	27.11	5.101e4					1.6	NO		dd		
52	FUNCTION1 PFK	27.05	7.101e4					1.7	NO		dd		
53	FUNCTION1 PFK	26.97	2.738e4					1.1	NO		bd		
54	FUNCTION1 PFK	26.85	5.698e3					0.5	NO		bb		
55	FUNCTION1 PFK	26.79	9.173e3					0.6	NO		bb		
56	FUNCTION1 PFK	26.65	1.932e4					1.0	NO		bb		
57	FUNCTION1 PFK	26.50	1.249e4					0.8	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

**ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.28	1.720e4					1.2	NO		bb		0.000
2	FUNCTION3 PFK	35.17	3.494e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	35.02	1.498e4					0.7	NO		bb		0.000
4	FUNCTION3 PFK	34.97	2.068e4					1.6	NO		db		0.000
5	FUNCTION3 PFK	34.92	3.898e4					1.7	NO		bd		0.000
6	FUNCTION3 PFK	34.84	3.344e4					2.0	NO		db		0.000
7	FUNCTION3 PFK	34.79	4.044e4					2.0	NO		bd		0.000
8	FUNCTION3 PFK	34.56	1.848e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	34.43	3.131e3					0.6	NO		bb		0.000
10	FUNCTION3 PFK	33.97	1.059e4					1.1	NO		bb		0.000
11	FUNCTION3 PFK	33.91	7.198e3					0.6	NO		bb		0.000
12	FUNCTION3 PFK	33.77	2.029e4					1.1	NO		bb		0.000
13	FUNCTION3 PFK	33.51	2.578e4					1.1	NO		bb		0.000
14	FUNCTION3 PFK	33.23	2.194e3					0.4	NO		bb		0.000
15	FUNCTION3 PFK	37.66	2.055e4					1.5	NO		db		0.000
16	FUNCTION3 PFK	37.61	1.552e4					1.3	NO		bd		0.000
17	FUNCTION3 PFK	37.55	2.721e4					1.4	NO		bb		0.000
18	FUNCTION3 PFK	37.30	3.274e4					1.5	NO		bb		0.000
19	FUNCTION3 PFK	36.81	9.296e3					0.9	NO		bb		0.000
20	FUNCTION3 PFK	36.47	5.665e3					0.6	NO		bb		0.000
21	FUNCTION3 PFK	36.37	1.213e4					0.9	NO		bb		0.000
22	FUNCTION3 PFK	35.99	5.368e3					0.6	NO		bb		0.000
23	FUNCTION3 PFK	35.72	2.308e3					0.4	NO		bb		0.000
24	FUNCTION3 PFK	35.61	2.395e3					0.4	NO		bb		0.000
25	FUNCTION3 PFK	35.56	8.733e3					0.7	NO		bb		0.000

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

## PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.48	1.749e3					0.5	NO		bb		
2	FUNCTION4 PFK	38.35	9.022e3					0.9	NO		bb		
3	FUNCTION4 PFK	38.24	3.875e3					0.6	NO		bb		
4	FUNCTION4 PFK	38.13	2.737e4					1.8	NO		bb		
5	FUNCTION4 PFK	41.33	1.294e4					1.5	NO		bd		
6	FUNCTION4 PFK	41.23	4.010e4					1.6	NO		db		
7	FUNCTION4 PFK	41.09	3.801e4					1.9	NO		bd		
8	FUNCTION4 PFK	40.99	2.136e4					1.8	NO		bb		
9	FUNCTION4 PFK	40.59	8.289e3					0.7	NO		bb		
10	FUNCTION4 PFK	40.23	3.985e3					0.6	NO		bb		
11	FUNCTION4 PFK	39.88	1.184e3					0.3	NO		bb		
12	FUNCTION4 PFK	39.83	1.945e3					0.5	NO		bb		
13	FUNCTION4 PFK	39.52	8.163e3					1.0	NO		bb		
14	FUNCTION4 PFK	39.21	1.232e3					0.3	NO		bb		
15	FUNCTION4 PFK	39.07	1.853e4					1.3	NO		db		
16	FUNCTION4 PFK	38.94	5.337e4					2.0	NO		dd		
17	FUNCTION4 PFK	38.87	1.627e4					1.6	NO		dd		
18	FUNCTION4 PFK	38.84	1.863e4					1.8	NO		bd		
19	FUNCTION4 PFK	38.69	3.030e4					2.1	NO		bb		
20	FUNCTION4 PFK	38.54	2.688e3					0.5	NO		bb		
21	FUNCTION4 PFK	42.75	7.635e3					1.1	NO		bb		
22	FUNCTION4 PFK	42.65	3.824e3					0.5	NO		db		
23	FUNCTION4 PFK	42.62	3.380e3					0.6	NO		bd		
24	FUNCTION4 PFK	42.55	8.483e3					1.1	NO		bb		
25	FUNCTION4 PFK	42.45	5.962e3					0.8	NO		db		
26	FUNCTION4 PFK	42.40	5.418e3					0.7	NO		bd		
27	FUNCTION4 PFK	42.27	7.694e3					0.9	NO		bb		
28	FUNCTION4 PFK	42.10	9.463e3					1.2	NO		db		
29	FUNCTION4 PFK	42.05	1.039e4					1.1	NO		bd		
30	FUNCTION4 PFK	41.81	3.060e3					0.9	NO		bb		
31	FUNCTION4 PFK	41.77	4.237e3					0.7	NO		bb		
32	FUNCTION4 PFK	41.71	3.440e3					0.6	NO		bb		
33	FUNCTION4 PFK	41.67	1.592e3					0.4	NO		bb		
34	FUNCTION4 PFK	41.57	2.688e4					1.3	NO		bb		
35	FUNCTION4 PFK	41.37	1.425e4					1.5	NO		db		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.31	4.706e3					1.2	NO		bb		
2	FUNCTION5 PFK	46.25	4.425e3					1.1	NO		bb		
3	FUNCTION5 PFK	46.16	2.646e3					0.9	NO		bb		
4	FUNCTION5 PFK	46.03	5.117e3					1.5	NO		db		
5	FUNCTION5 PFK	46.01	6.487e3					1.4	NO		bd		
6	FUNCTION5 PFK	45.67	8.229e3					1.3	NO		bb		
7	FUNCTION5 PFK	45.46	1.002e3					0.5	NO		bb		
8	FUNCTION5 PFK	45.18	2.741e3					0.8	NO		db		
9	FUNCTION5 PFK	45.15	2.119e3					0.7	NO		bd		
10	FUNCTION5 PFK	44.83	3.811e3					1.2	NO		bb		
11	FUNCTION5 PFK	44.20	1.148e4					1.5	NO		bb		
12	FUNCTION5 PFK	44.06	5.518e3					1.3	NO		bb		
13	FUNCTION5 PFK	44.02	1.106e3					0.6	NO		bb		
14	FUNCTION5 PFK	43.71	1.195e4					1.8	NO		bb		
15	FUNCTION5 PFK	43.46	1.476e3					0.8	NO		bb		
16	FUNCTION5 PFK	43.39	1.169e4					1.4	NO		bb		
17	FUNCTION5 PFK	46.43	1.400e3					0.7	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.97	1.637e2					3.3	YES		bb		0.000
2	FUNCTION1 HXCD...	27.23	1.144e2					2.0	NO		bb		0.000
3	FUNCTION1 HXCD...	26.82	1.144e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	25.91	1.100e2					2.2	NO		bb		0.000
5	FUNCTION1 HXCD...	25.23	1.805e2					5.5	YES		bb		0.000
6	FUNCTION1 HXCD...	24.26	1.341e2					2.3	NO		bb		0.000
7	FUNCTION1 HXCD...	24.08	1.268e2					1.9	NO		bb		0.000
8	FUNCTION1 HXCD...	23.43	1.602e2					2.4	NO		bb		0.000
9	FUNCTION1 HXCD...	22.78	1.018e2					1.8	NO		bb		0.000
10	FUNCTION1 HXCD...	22.39	1.626e2					2.8	NO		bb		0.000
11	FUNCTION1 HXCD...	22.06	1.129e2					2.5	NO		bb		0.000
12	FUNCTION1 HXCD...	21.53	1.052e2					1.2	NO		db		0.000
13	FUNCTION1 HXCD...	21.36	9.992e1					1.3	NO		bd		0.000
14	FUNCTION1 HXCD...	21.16	1.410e2					2.5	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:09 Pacific Standard Time

**ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk****ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	28.16	7.208e1					2.1	NO		bb		0.000
2	FUNCTION1 HPCD...	27.42	1.038e2					2.0	NO		db		0.000
3	FUNCTION1 HPCD...	27.27	1.034e2					2.2	NO		bd		0.000
4	FUNCTION1 HPCD...	25.70	1.308e2					1.7	NO		bb		0.000
5	FUNCTION1 HPCD...	24.05	1.613e2					1.7	NO		bb		0.000
6	FUNCTION1 HPCD...	22.59	1.423e2					2.0	NO		bb		0.000
7	FUNCTION1 HPCD...	22.39	1.496e2					3.4	YES		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.14	1.080e2					1.8	NO		db		0.000
2	FUNCTION2 HPCD...	30.05	1.026e2					1.8	NO		bd		0.000
3	FUNCTION2 HPCD...	28.74	8.165e1					1.9	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.11	9.641e1					2.4	NO		db		0.000
2	FUNCTION3 OCDPE	36.03	1.029e2					1.5	NO		bd		0.000
3	FUNCTION3 OCDPE	34.77	8.096e1					1.2	NO		bb		0.000
4	FUNCTION3 OCDPE	37.01	1.018e2					2.8	NO		bb		0.000
5	FUNCTION3 OCDPE	36.73	1.470e2					3.1	YES		bb		0.000
6	FUNCTION3 OCDPE	36.60	1.766e2					3.1	YES		bb		0.000
7	FUNCTION3 OCDPE	36.22	1.214e2					2.7	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.34	9.946e1					2.4	NO		bb		0.000
2	FUNCTION4 NCDPE	39.96	9.057e1					2.5	NO		bb		0.000

**ETHERS6**

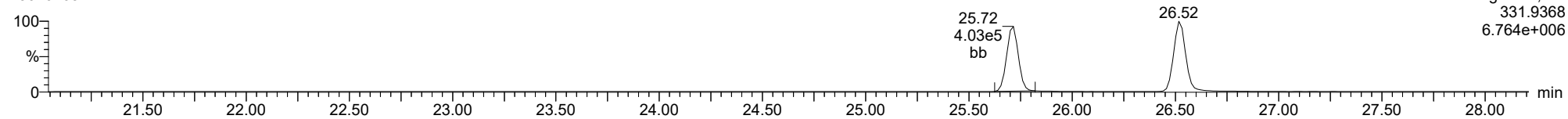
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Method: T:\Autospec\Methods\Dioxin230131H.mdb 03 Feb 2023 10:31:33**  
**Calibration: 03 Feb 2023 10:33:40**

**ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk**

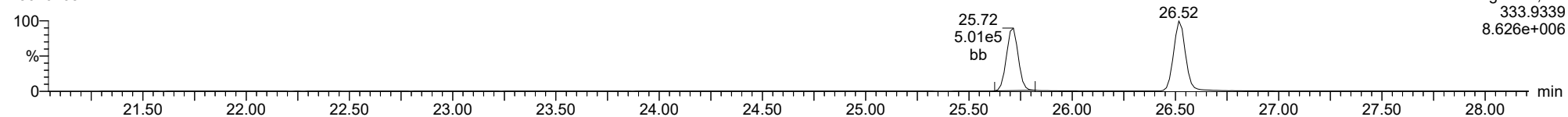
**13C-1234-TCDD**

23020105



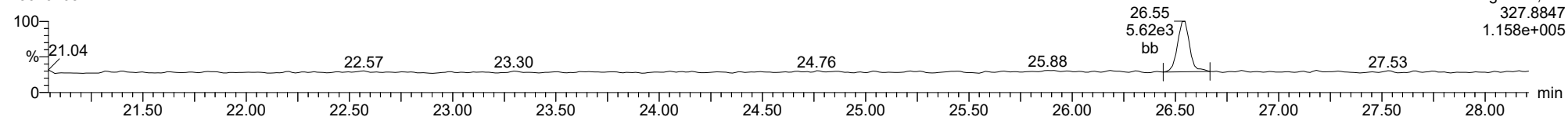
**13C-1234-TCDD**

23020105



**37CL-2378-TCDD**

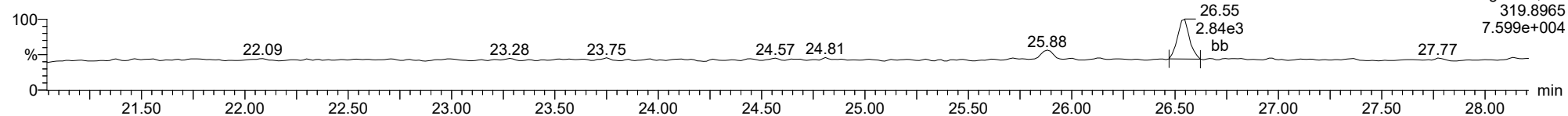
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

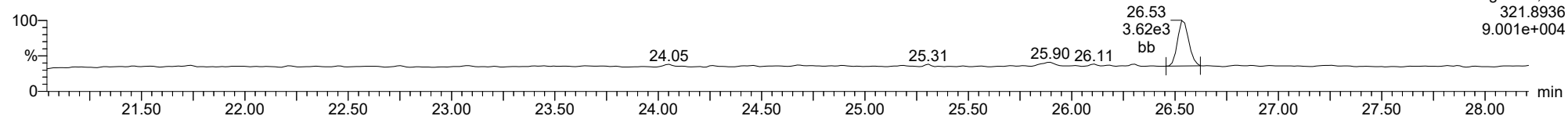
**2378-TCDD**

23020105



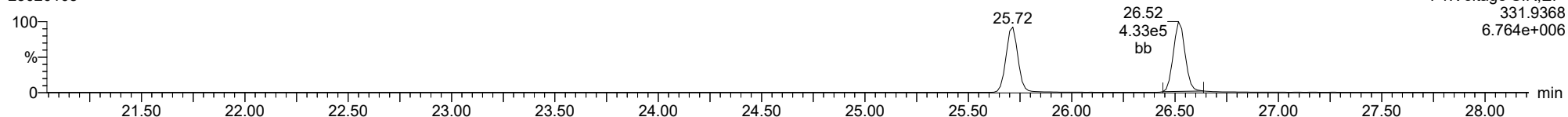
**2378-TCDD**

23020105



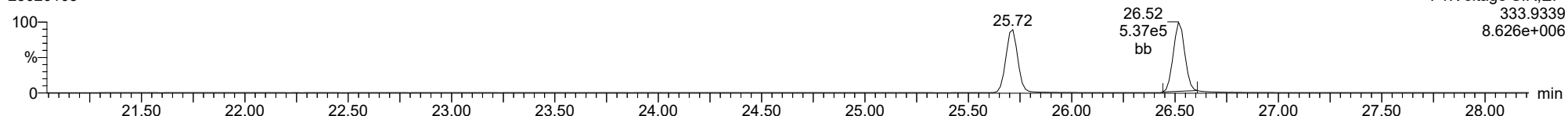
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23020105



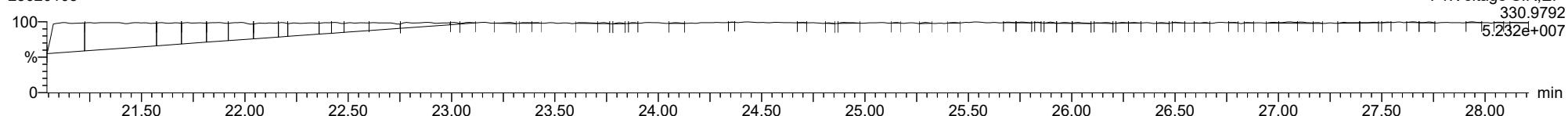
**13C-2378-TCDD**

23020105



**FUNCTION1 PFK**

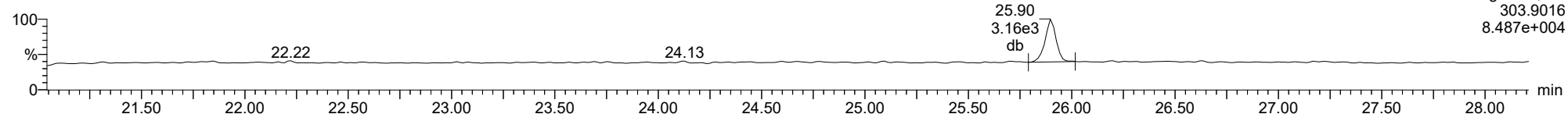
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

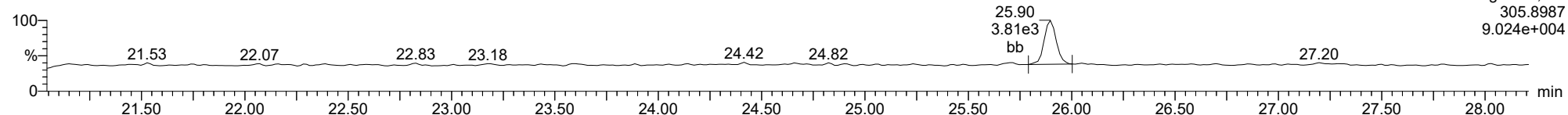
**2378-TCDF**

23020105



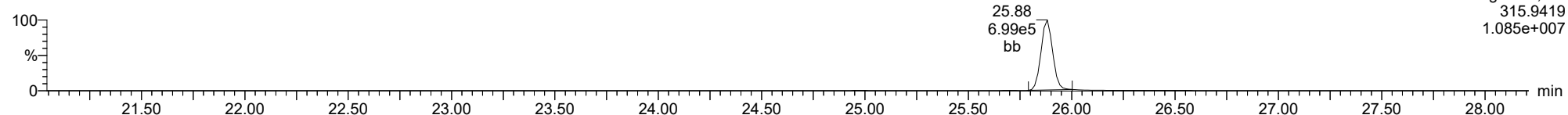
**2378-TCDF**

23020105



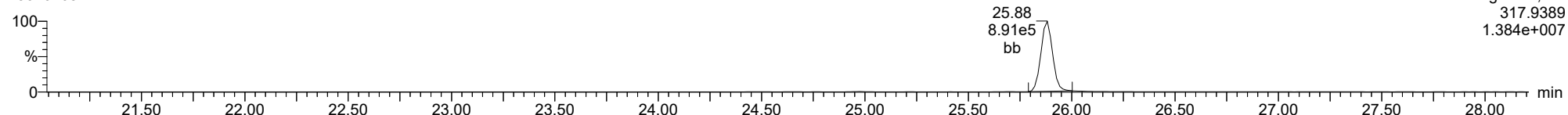
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23020105



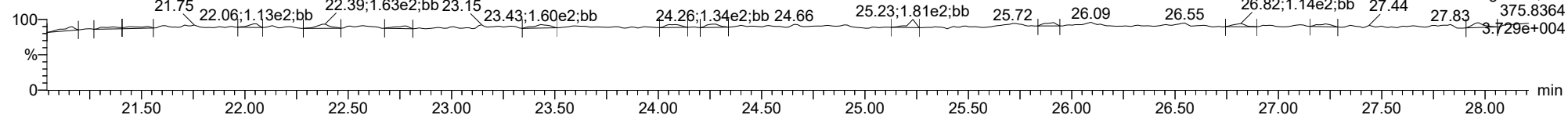
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23020105



**FUNCTION1 HXCDPE**

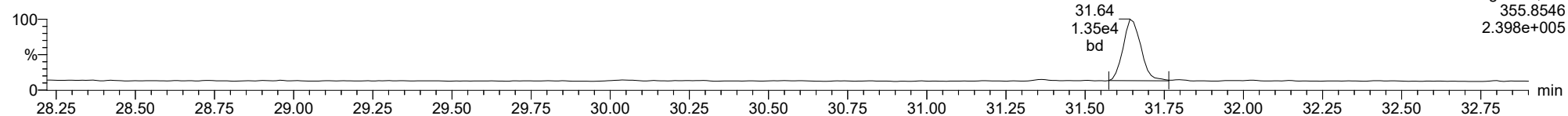
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

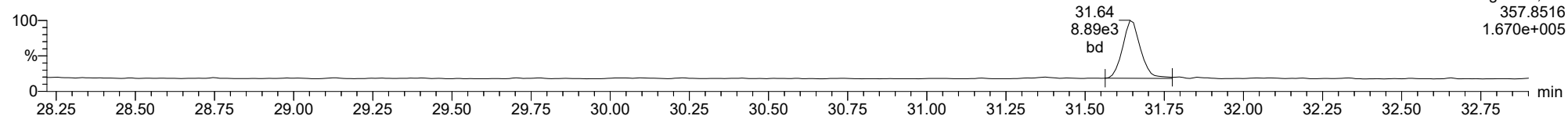
**12378-PeCDD**

23020105



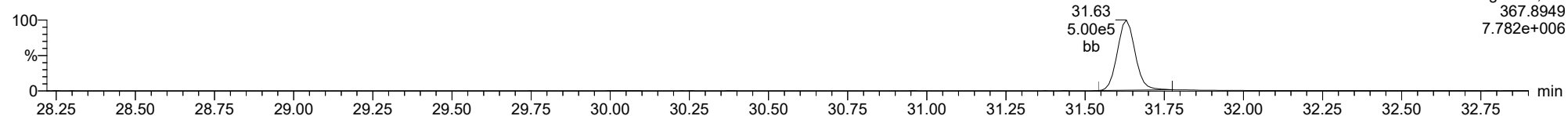
**12378-PeCDD**

23020105



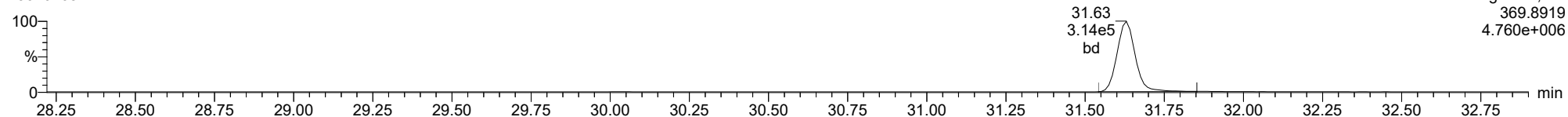
**13C-12378-PeCDD**

23020105



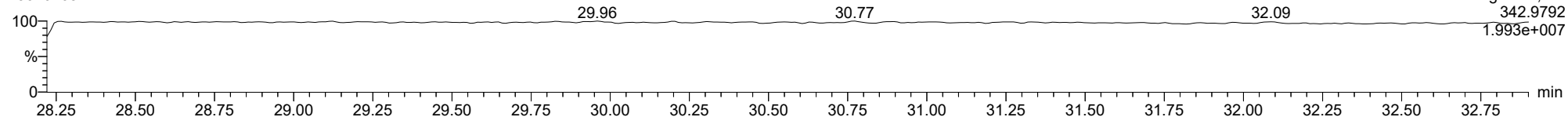
**13C-12378-PeCDD**

23020105



**FUNCTION2 PFK**

23020105

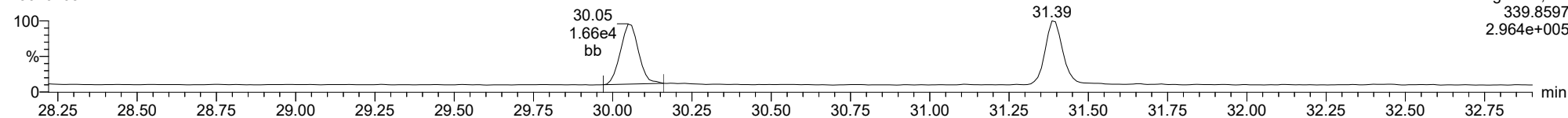




ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

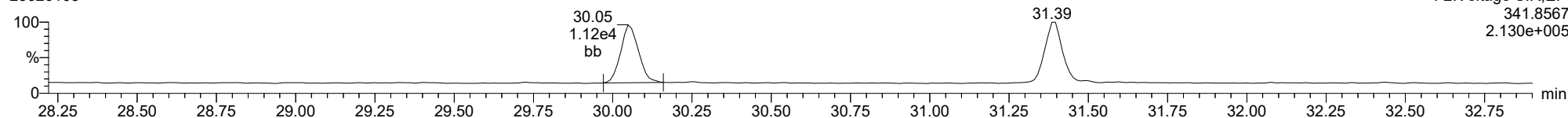
**12378-PeCDF**

23020105



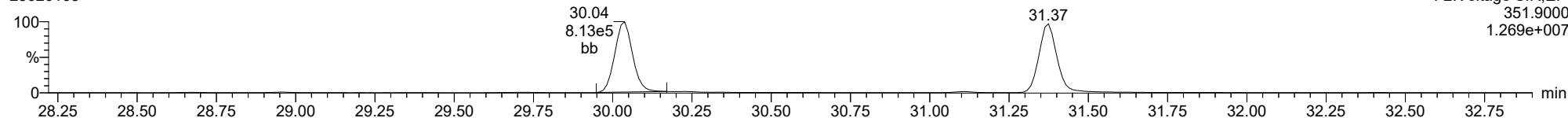
**12378-PeCDF**

23020105



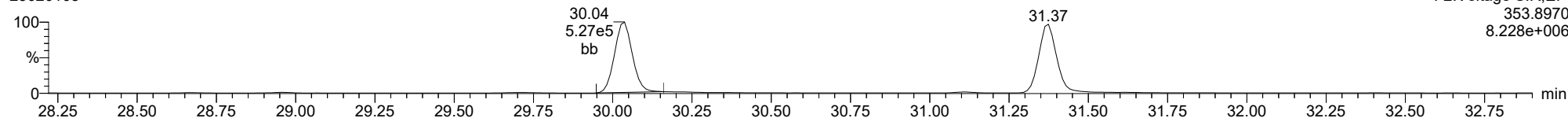
**13C-12378-PeCDF**

23020105



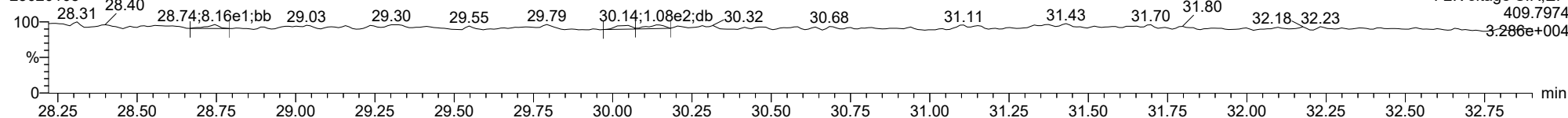
**13C-12378-PeCDF**

23020105



**FUNCTION2 HPCDPE**

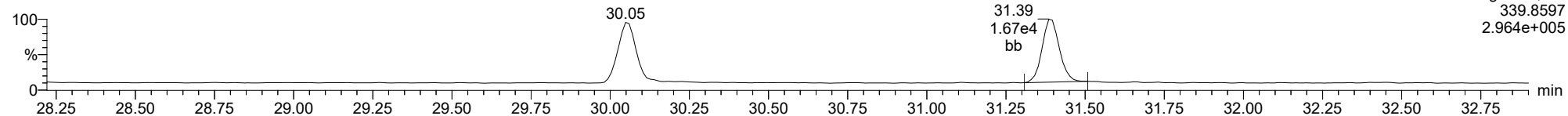
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

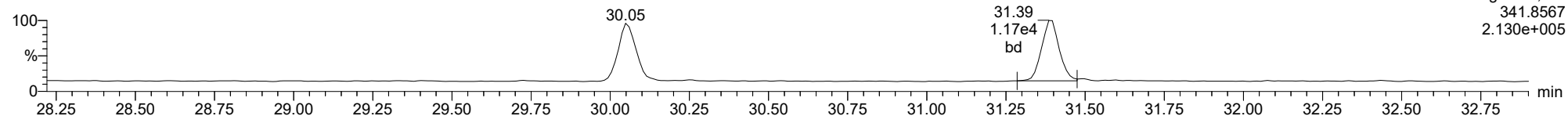
23020105



F2:Voltage SIR,EI+  
339.8597  
2.964e+005

**23478-PeCDF**

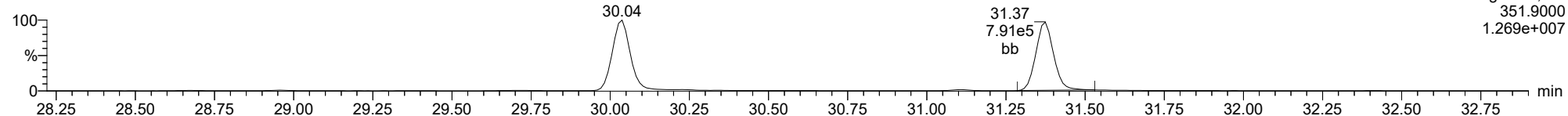
23020105



F2:Voltage SIR,EI+  
341.8567  
2.130e+005

**13C-23478-PeCDF**

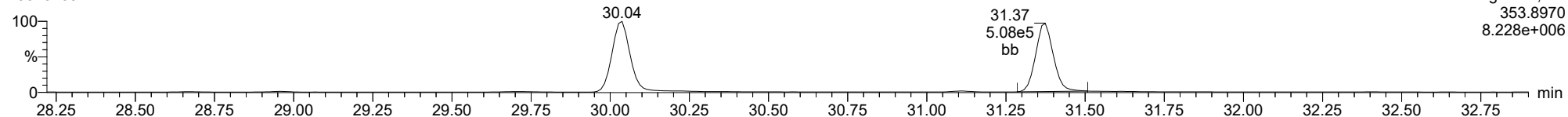
23020105



F2:Voltage SIR,EI+  
351.9000  
1.269e+007

**13C-23478-PeCDF**

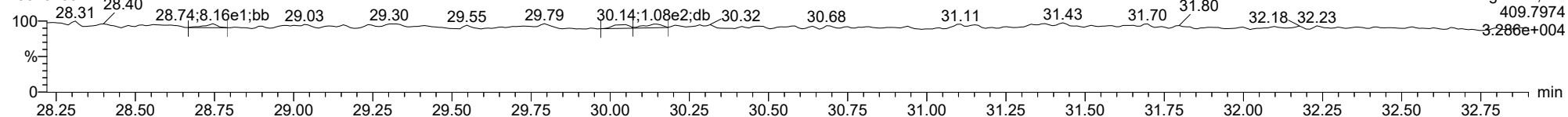
23020105



F2:Voltage SIR,EI+  
353.8970  
8.228e+006

**FUNCTION2 HPCDPE**

23020105

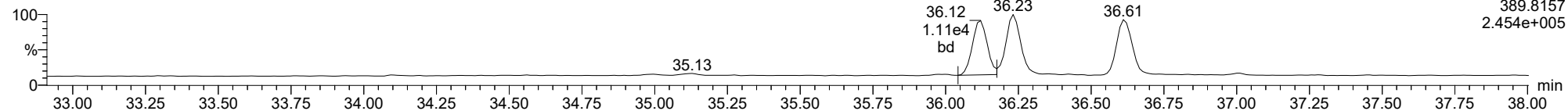


F2:Voltage SIR,EI+  
409.7974  
3.286e+004

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

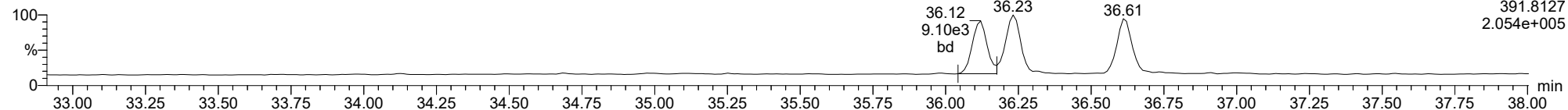
**123478-HxCDD**

23020105



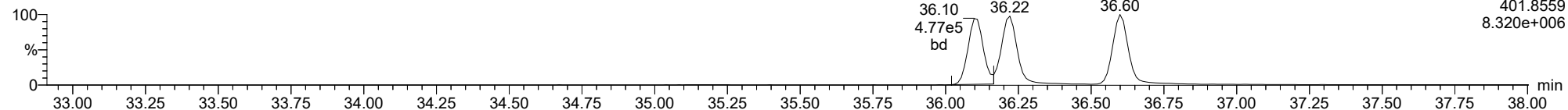
**123478-HxCDD**

23020105



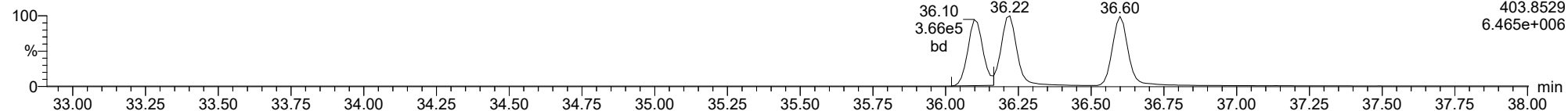
**13C-123478-HxCDD**

23020105



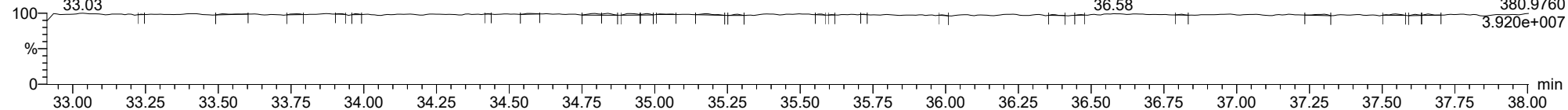
**13C-123478-HxCDD**

23020105



**FUNCTION3 PFK**

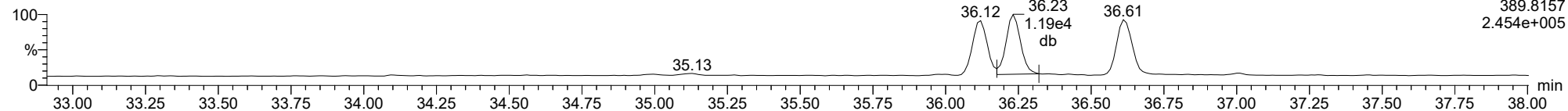
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

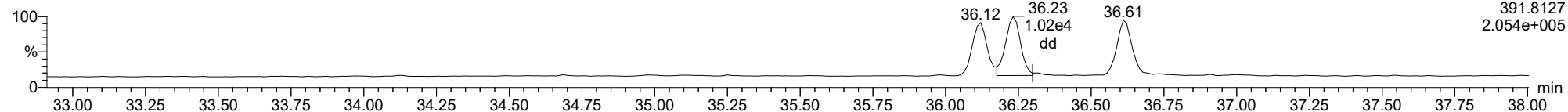
23020105



F3:Voltage SIR,EI+  
389.8157  
2.454e+005

**123678-HxCDD**

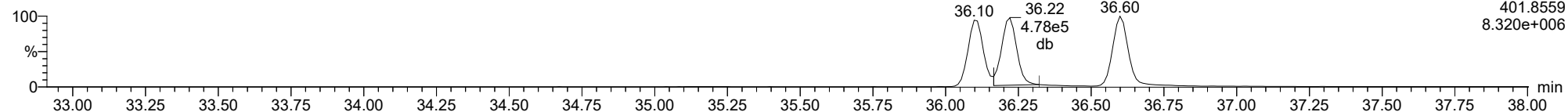
23020105



F3:Voltage SIR,EI+  
391.8127  
2.054e+005

**13C-123678-HxCDD**

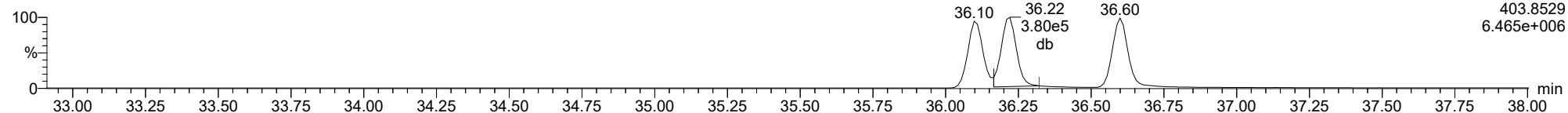
23020105



F3:Voltage SIR,EI+  
401.8559  
8.320e+006

**13C-123678-HxCDD**

23020105

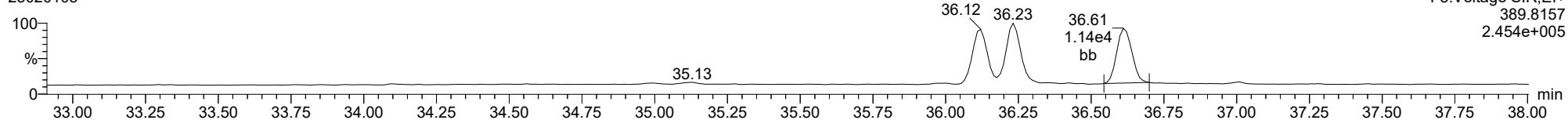


F3:Voltage SIR,EI+  
403.8529  
6.465e+006

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

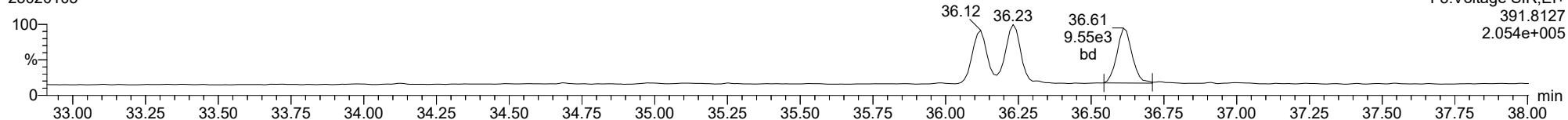
**123789-HxCDD**

23020105



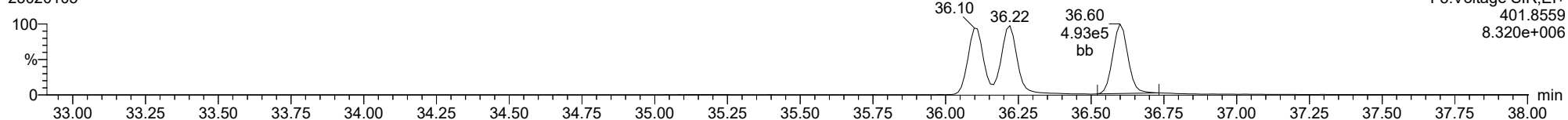
**123789-HxCDD**

23020105



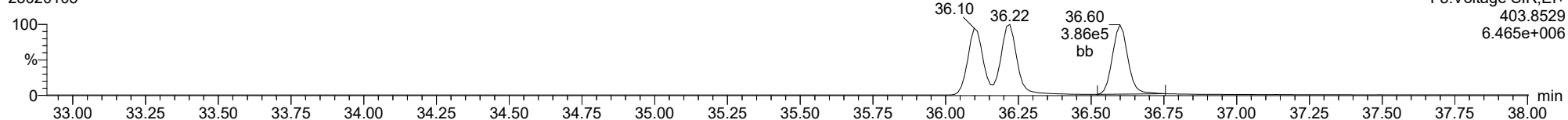
**13C-123789-HxCDD**

23020105



**13C-123789-HxCDD**

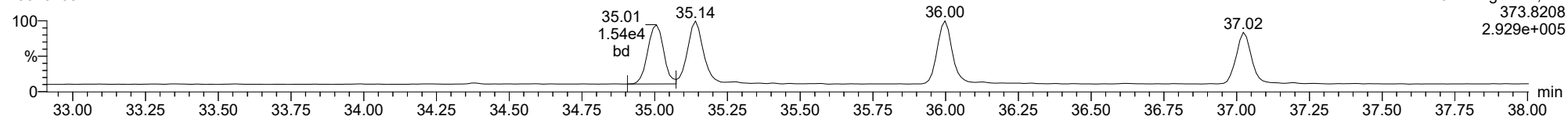
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

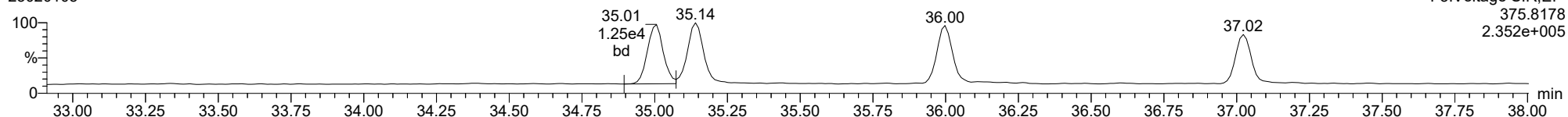
123478-HxCDF

23020105



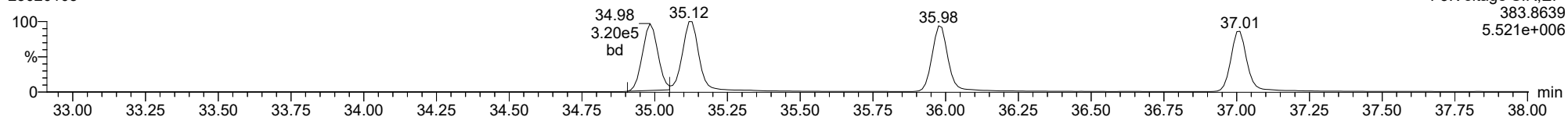
123478-HxCDF

23020105



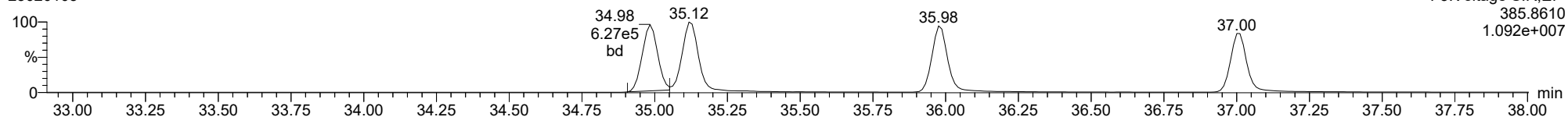
13C-123478-HxCDF

23020105



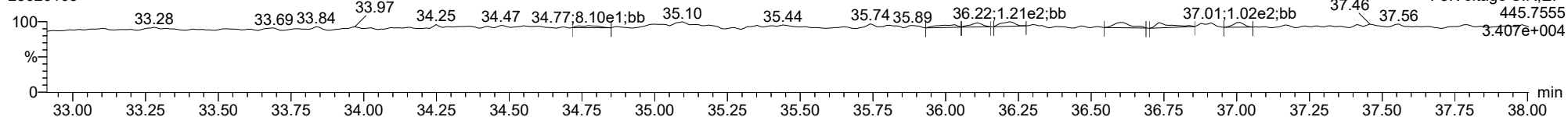
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23020105



FUNCTION3 OCDPE

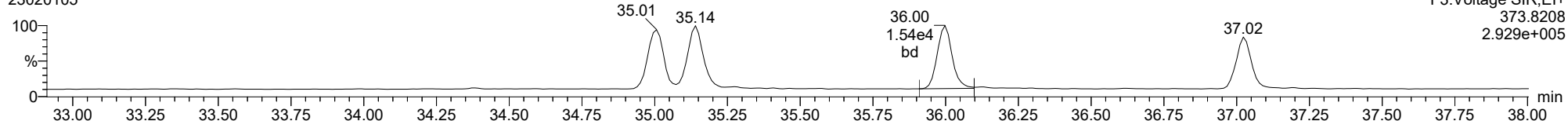
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

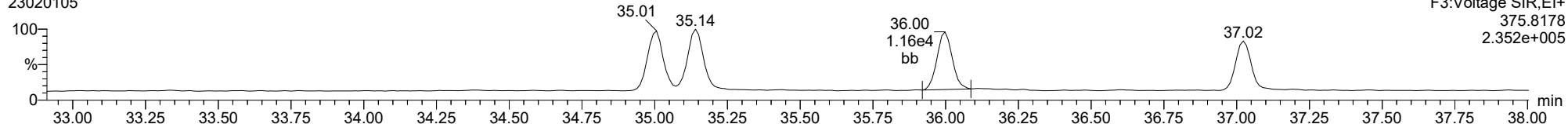
**234678-HxCDF**

23020105



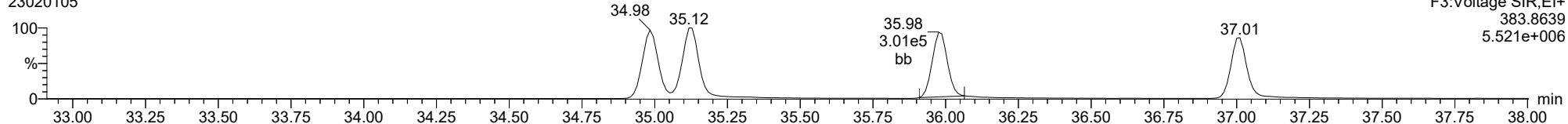
**234678-HxCDF**

23020105



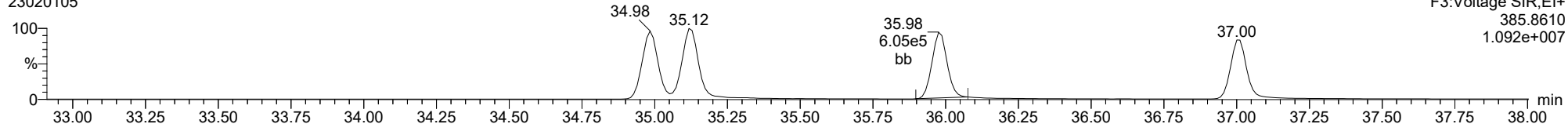
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23020105



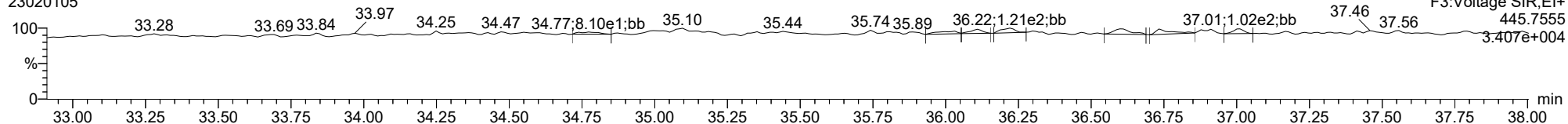
**13C-234678-HxCDF**

23020105



**FUNCTION3 OCDPE**

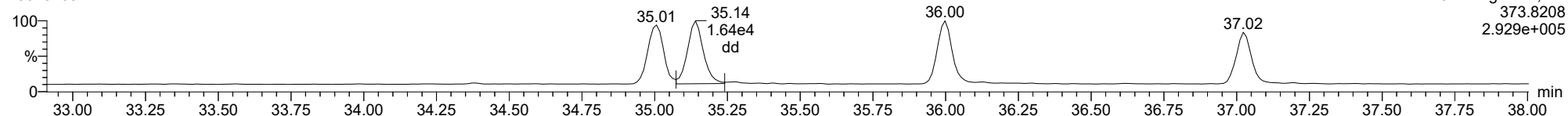
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

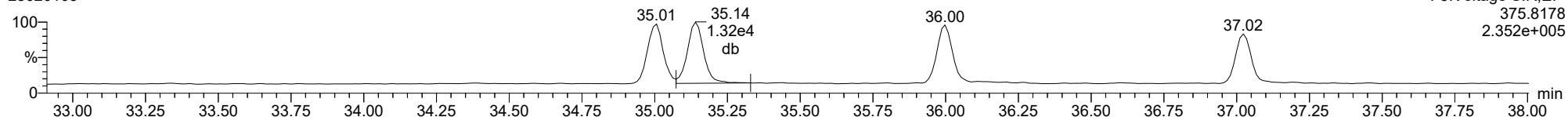
123678-HxCDF

23020105



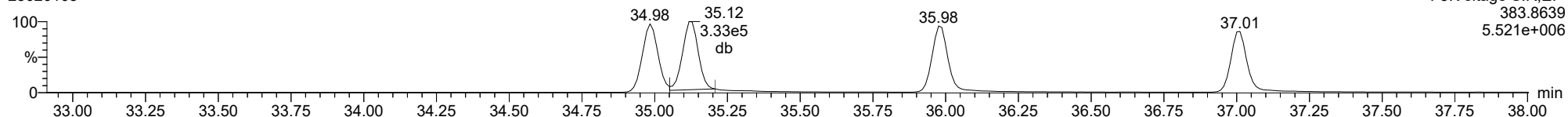
123678-HxCDF

23020105



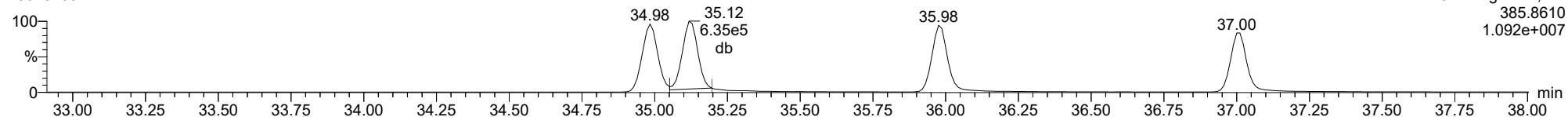
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23020105



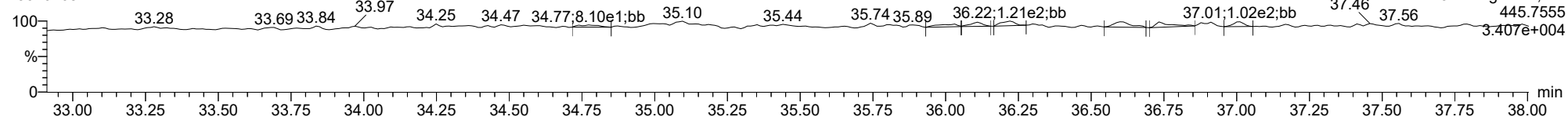
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23020105



FUNCTION3 OCDPE

23020105

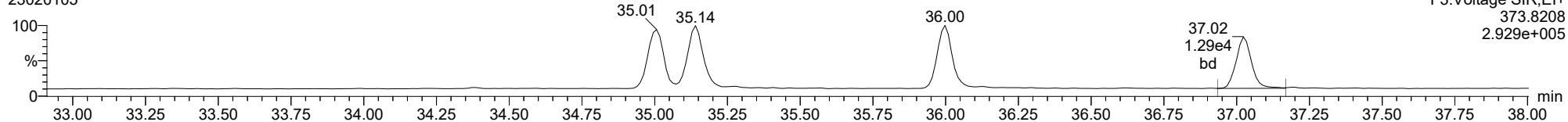




ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

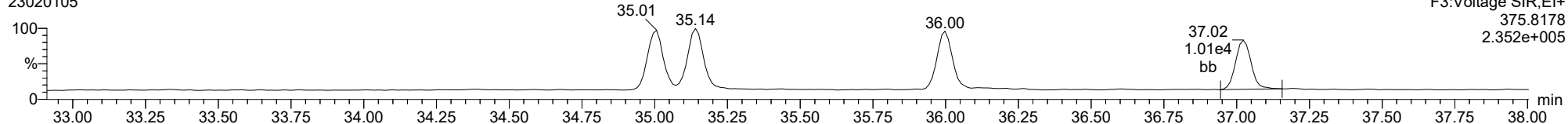
**123789-HxCDF**

23020105



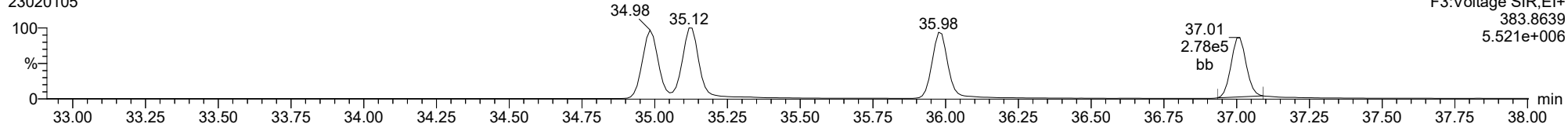
**123789-HxCDF**

23020105



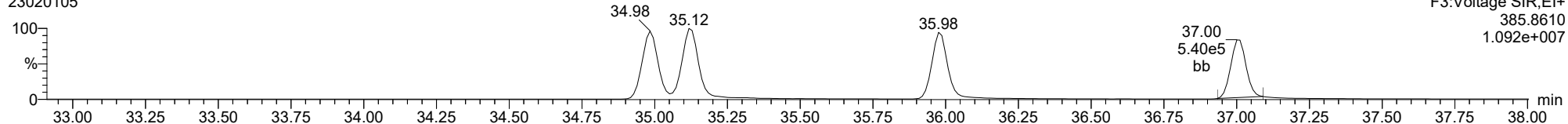
**13C-123789-HxCDF**

23020105



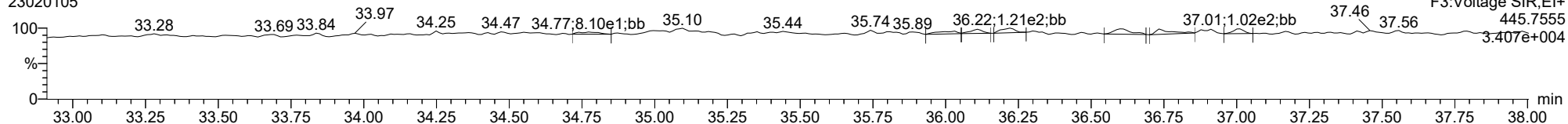
**13C-123789-HxCDF**

23020105



**FUNCTION3 OCDPE**

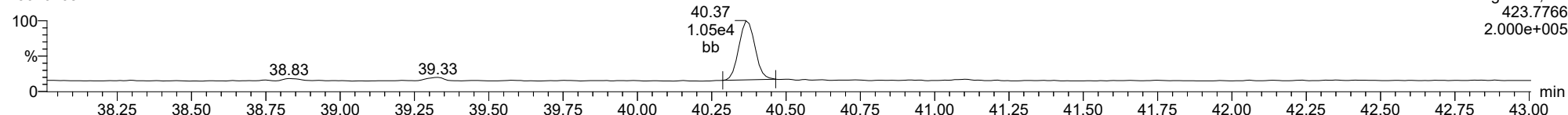
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

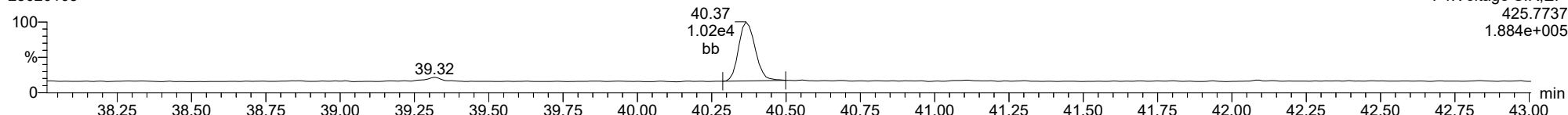
**1234678-HpCDD**

23020105



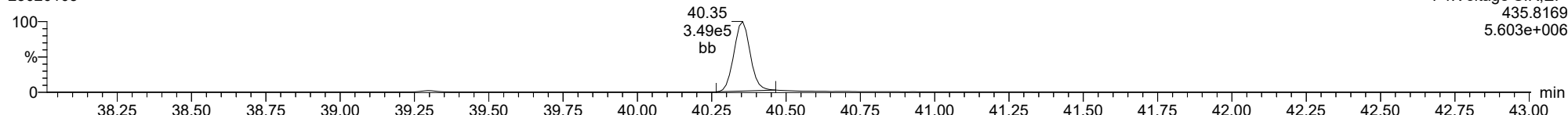
**1234678-HpCDD**

23020105



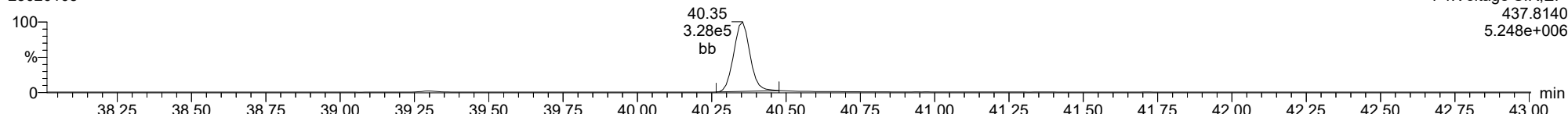
**13C-1234678-HpCDD**

23020105



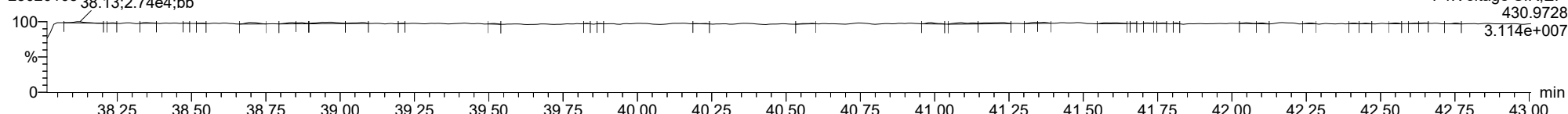
**13C-1234678-HpCDD**

23020105



**FUNCTION4 PFK**

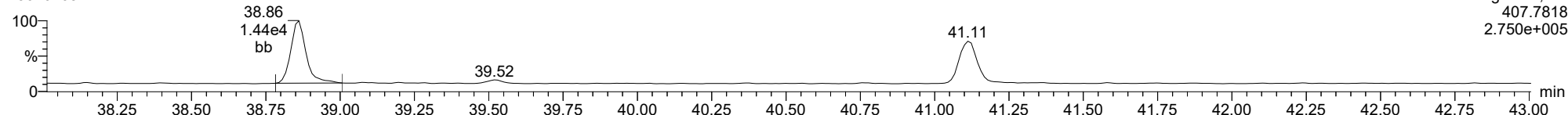
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

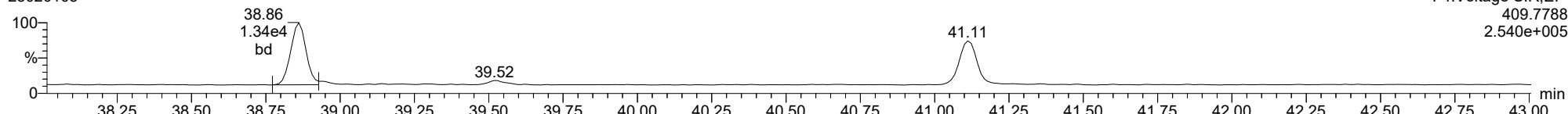
1234678-HpCDF

23020105



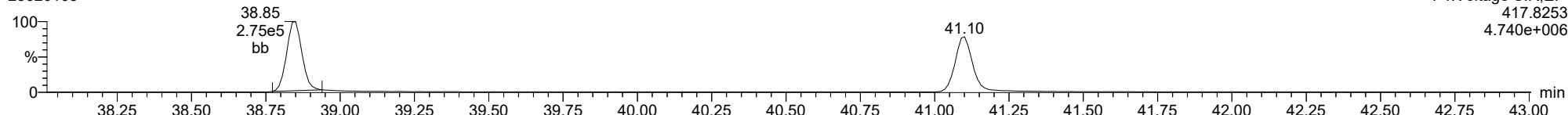
1234678-HpCDF

23020105



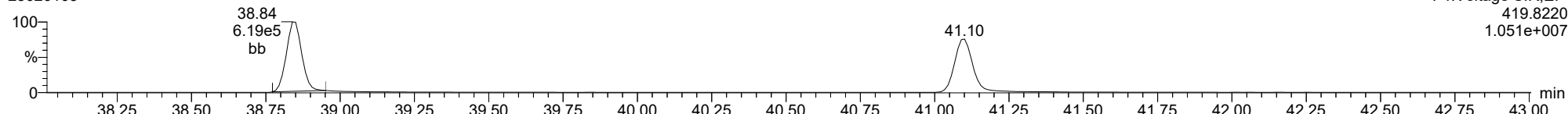
13C-1234678-HpCDF

23020105



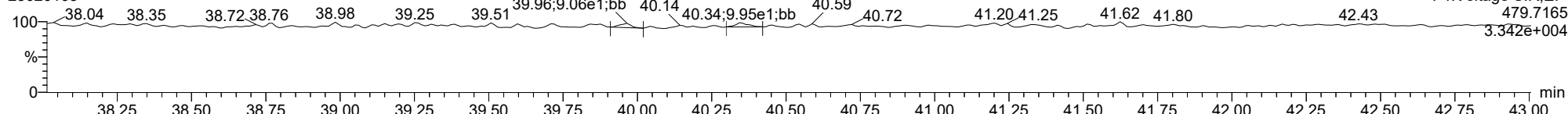
13C-1234678-HpCDF

23020105



FUNCTION4 NCDPE

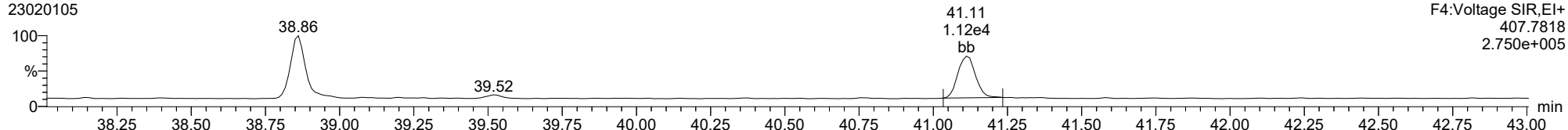
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

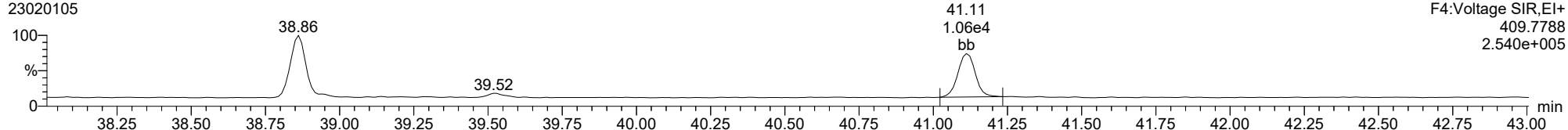
23020105



F4:Voltage SIR,EI+  
407.7818  
2.750e+005

1234789-HpCDF

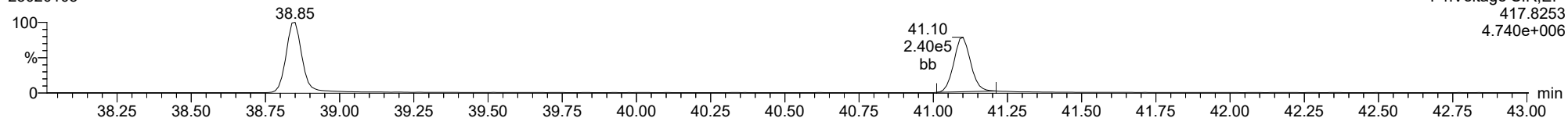
23020105



F4:Voltage SIR,EI+  
409.7788  
2.540e+005

13C-1234789-HpCDF

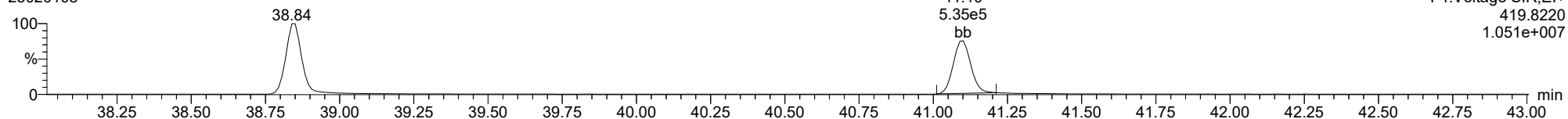
23020105



F4:Voltage SIR,EI+  
417.8253  
4.740e+006

13C-1234789-HpCDF

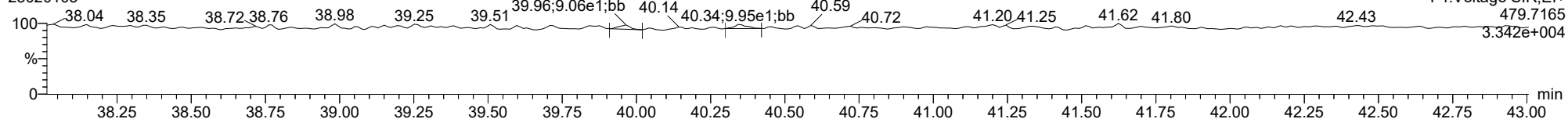
23020105



F4:Voltage SIR,EI+  
419.8220  
1.051e+007

FUNCTION4 NCDPE

23020105

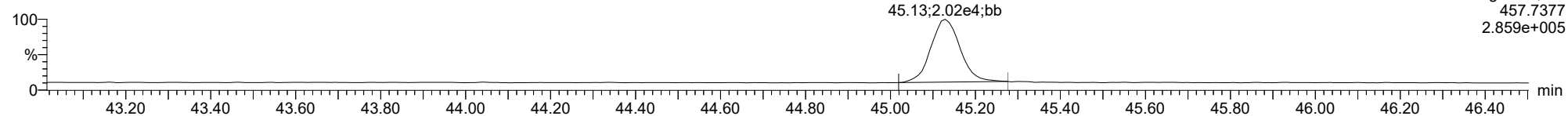


F4:Voltage SIR,EI+  
479.7165  
3.342e+004

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

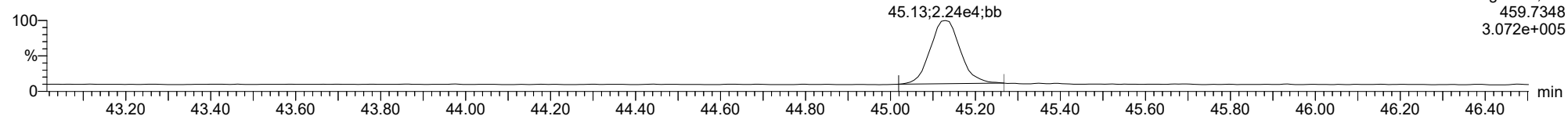
**OCDD**

23020105



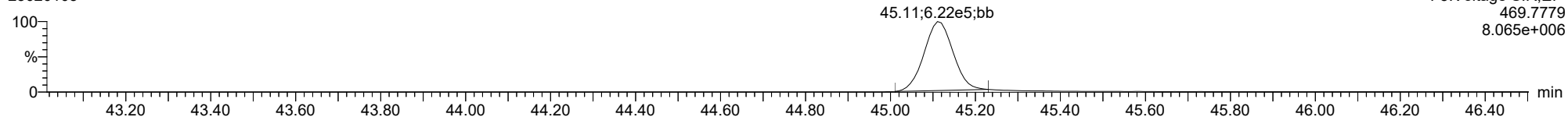
**OCDD**

23020105



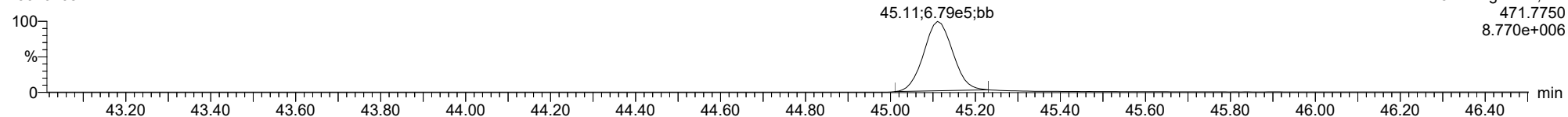
**13C-OCDD**

23020105



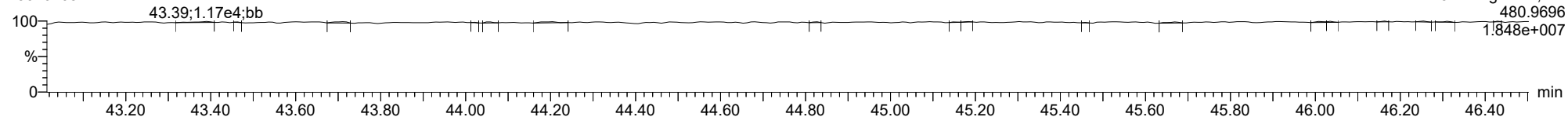
**13C-OCDD**

23020105



**FUNCTION5 PFK**

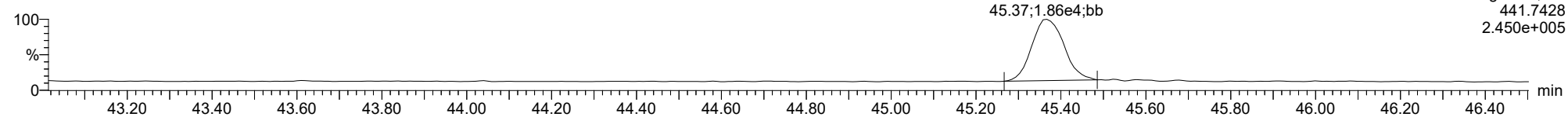
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

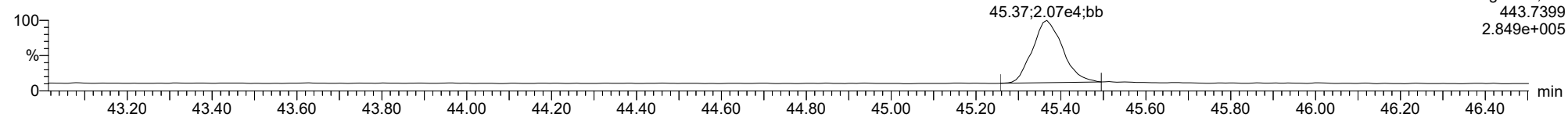
**OCDF**

23020105



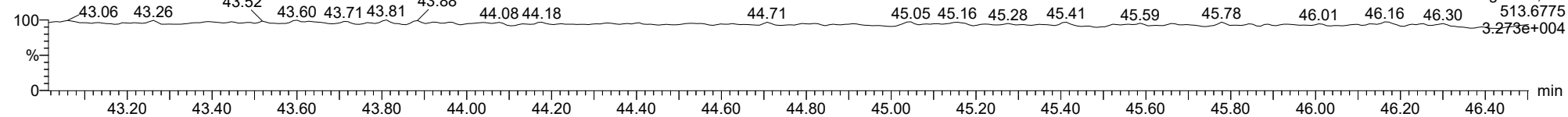
**OCDF**

23020105



**FUNCTION5 DCDPE**

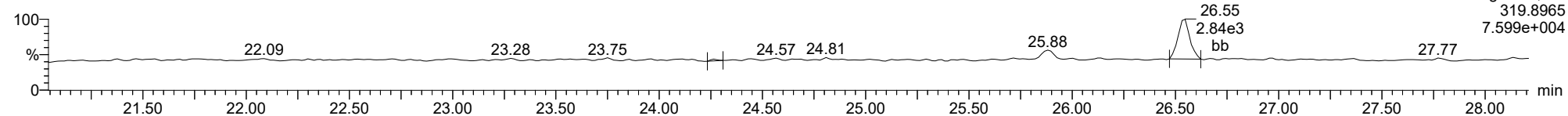
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

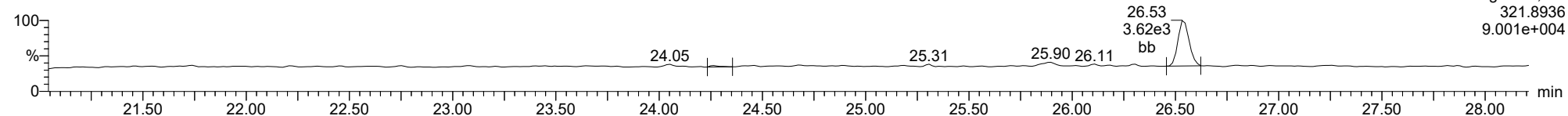
**Total-tetradoxins**

23020105



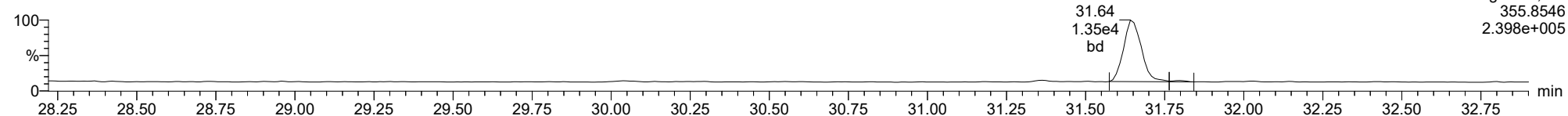
**Total-tetradoxins**

23020105



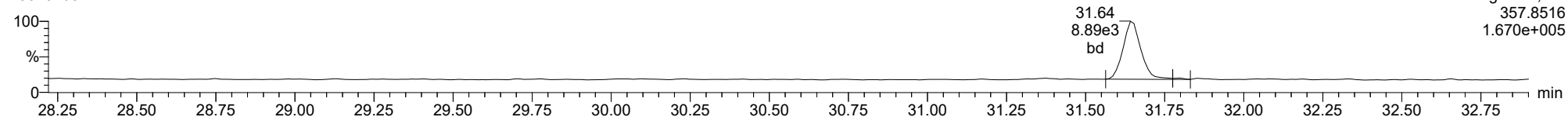
**Total-pentadoxins**

23020105



**Total-pentadoxins**

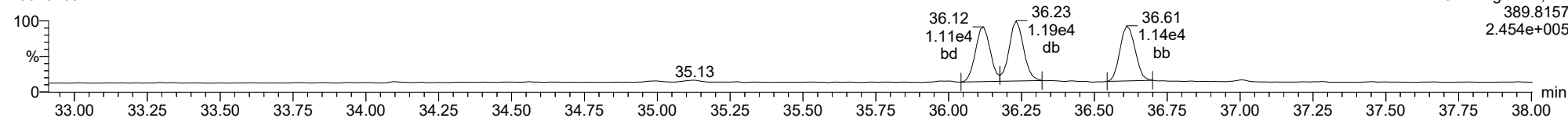
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

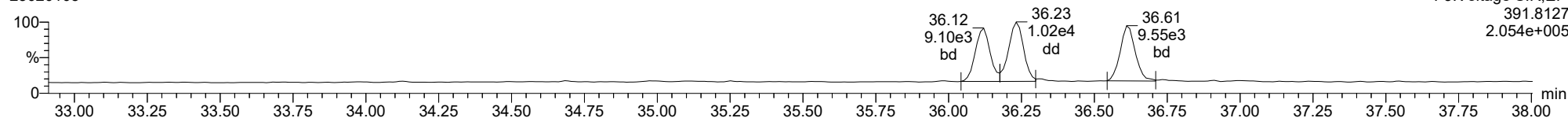
### Total-hexadioxins

23020105



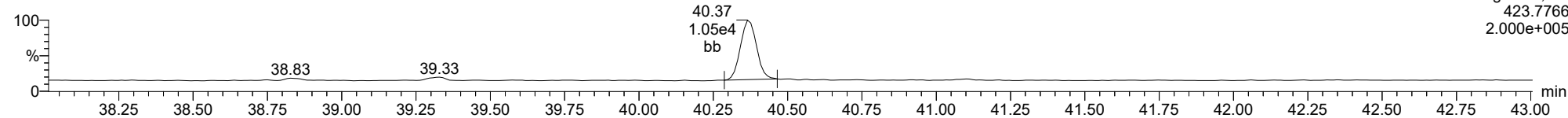
### Total-hexadioxins

23020105



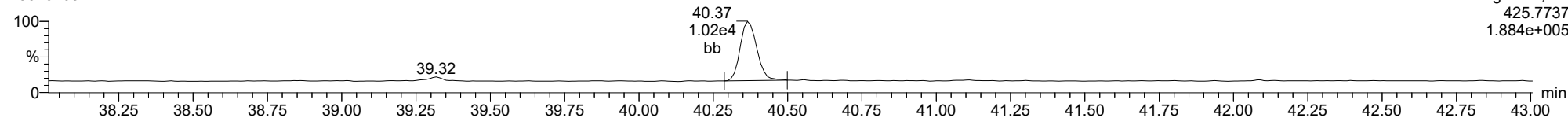
### Total-heptadioxins

23020105



### Total-heptadioxins

23020105

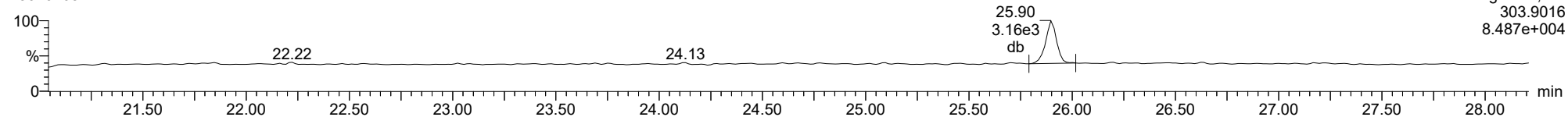




ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

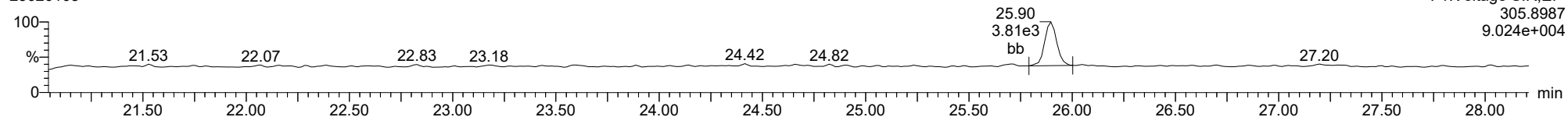
**Total-tetrafurans**

23020105



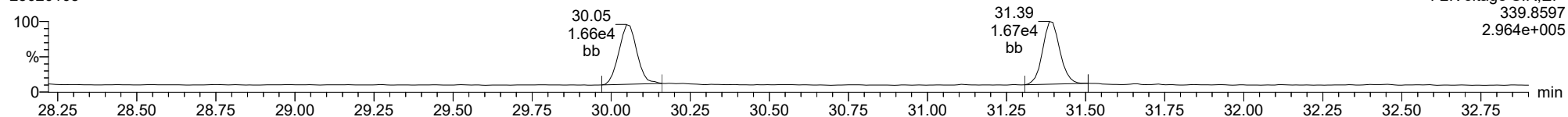
**Total-tetrafurans**

23020105



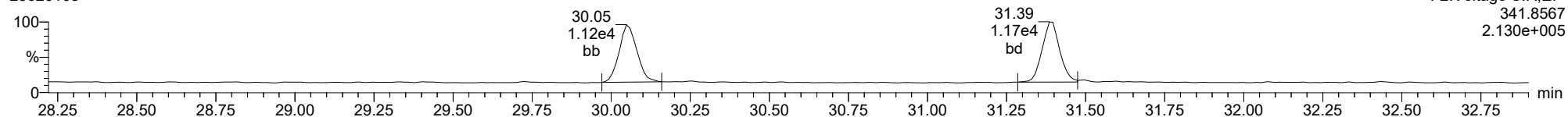
**Total-pentafurans**

23020105



**Total-pentafurans**

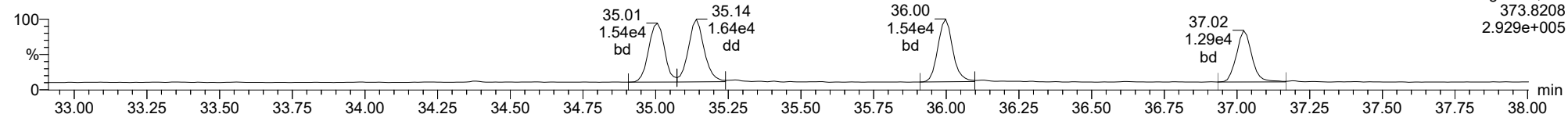
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

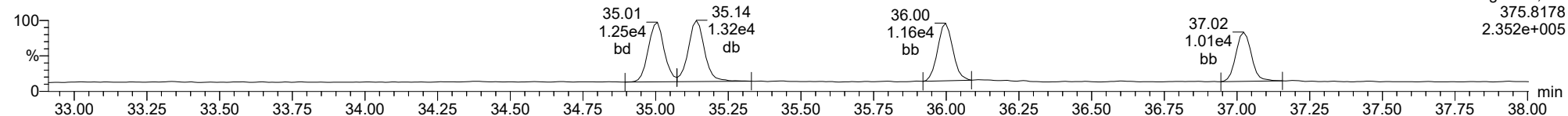
**Total-hexafurans**

23020105



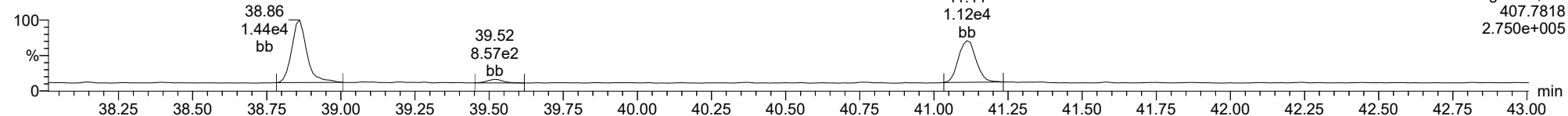
**Total-hexafurans**

23020105



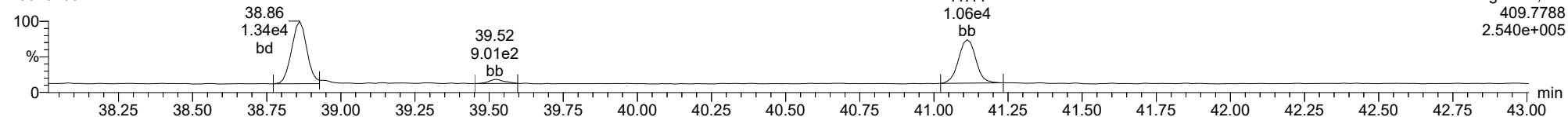
**Total-heptafurans**

23020105



**Total-heptafurans**

23020105



Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:25 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: 03 Feb 2023 10:33:40**

**ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	1.375e4	1.851e4	0.876	0.743	0.770	838	1562	2.10e5	2.76e5	250.5	176.4	NO	bb	bb	1.973
12378-PeCDF	30.059	1.001	8.384e4	5.404e4	0.845	1.551	1.550	1494	1842	1.30e6	8.45e5	870.6	458.6	NO	bd	bd	10.086
23478-PeCDF	31.396	1.001	8.811e4	5.691e4	0.911	1.548	1.550	1494	1842	1.31e6	8.58e5	880.0	466.0	NO	dd	bd	10.430
123478-HxCDF	35.006	1.001	7.445e4	5.785e4	1.182	1.287	1.240	1528	1565	1.21e6	9.52e5	791.3	608.7	NO	bd	bd	9.662
234678-HxCDF	35.998	1.000	7.554e4	5.984e4	1.229	1.262	1.240	1528	1565	1.18e6	9.11e5	774.2	582.4	NO	bd	bd	10.016
123678-HxCDF	35.140	1.000	8.156e4	6.332e4	1.248	1.288	1.240	1528	1565	1.23e6	9.70e5	801.6	619.6	NO	dd	dd	9.876
123789-HxCDF	37.023	1.000	6.616e4	5.058e4	1.187	1.308	1.240	1528	1565	1.05e6	8.18e5	687.4	522.6	NO	bd	bd	9.712
1234678-HpCDF	38.861	1.000	6.989e4	6.457e4	1.204	1.082	1.050	1538	1410	1.20e6	1.09e6	782.0	769.9	NO	bd	bb	9.897
1234789-HpCDF	41.111	1.000	5.916e4	5.737e4	1.165	1.031	1.050	1538	1410	8.45e5	8.21e5	549.5	582.6	NO	bd	bd	10.092
OCDF	45.376	1.006	9.214e4	9.862e4	1.186	0.934	0.890	1525	1454	1.11e6	1.20e6	727.4	823.3	NO	bd	bb	18.863
2378-TCDD	26.547	1.001	1.298e4	1.586e4	1.236	0.818	0.770	817	918	1.95e5	2.41e5	239.3	262.4	NO	bb	bb	2.020
12378-PeCDD	31.653	1.001	6.323e4	4.003e4	1.087	1.579	1.550	957	1113	9.67e5	6.22e5	1010.9	558.7	NO	bb	bb	9.953
123478-HxCDD	36.120	1.000	5.350e4	4.542e4	0.987	1.178	1.240	1419	1111	9.15e5	7.70e5	644.4	692.8	NO	bd	bd	9.967
123678-HxCDD	36.232	1.000	5.670e4	4.717e4	1.021	1.202	1.240	1419	1111	9.21e5	7.75e5	649.0	697.0	NO	db	db	9.657
123789-HxCDD	36.621	1.011	5.462e4	4.396e4	0.985	1.243	1.240	1419	1111	9.23e5	7.40e5	650.4	666.2	NO	bb	bb	9.715
1234678-HpCDD	40.376	1.001	5.329e4	4.930e4	1.253	1.081	1.050	939	1025	8.27e5	7.64e5	880.9	744.9	NO	bd	bb	9.623
OCDD	45.129	1.000	8.911e4	9.822e4	1.103	0.907	0.890	1078	1353	1.09e6	1.23e6	1009.3	912.1	NO	bd	bb	19.929
13C-2378-TCDF	25.882	1.007	8.175e5	1.049e6	1.768	0.779	0.770	2768	1604	1.28e7	1.62e7	4615.3	10118.2	NO	bb	bb	98.406
13C-12378-PeCDF	30.037	1.168	9.651e5	6.534e5	1.527	1.477	1.550	2685	2564	1.52e7	9.92e6	5664.2	3868.0	NO	bb	bd	98.795
13C-23478-PeCDF	31.374	1.220	9.289e5	5.970e5	1.466	1.556	1.550	2685	2564	1.42e7	9.15e6	5285.2	3567.7	NO	bb	bb	97.006
13C-123478-HxCDF	34.984	0.956	3.919e5	7.668e5	1.054	0.511	0.510	2280	2951	6.27e6	1.23e7	2748.9	4152.3	NO	bd	bd	102.036
13C-123678-HxCDF	35.129	0.960	3.972e5	7.782e5	1.080	0.510	0.510	2280	2951	6.52e6	1.27e7	2858.6	4308.7	NO	db	db	100.982
13C-234678-HxCDF	35.987	0.983	3.723e5	7.276e5	1.014	0.512	0.510	2280	2951	6.20e6	1.20e7	2719.4	4079.1	NO	bb	bb	100.611
13C-123789-HxCDF	37.012	1.011	3.411e5	6.719e5	0.928	0.508	0.510	2280	2951	5.87e6	1.14e7	2576.5	3878.0	NO	bb	bb	101.286
13C-1234678-HpCDF	38.850	1.061	3.519e5	7.764e5	1.036	0.453	0.440	2948	3056	6.15e6	1.36e7	2085.9	4456.3	NO	bb	bb	101.034
13C-1234789-HpCDF	41.100	1.123	3.071e5	6.837e5	0.905	0.449	0.440	2948	3056	4.66e6	1.03e7	1581.8	3383.9	NO	bb	bb	101.592
13C-1234-TCDD	25.715	0.000	4.761e5	5.966e5	1.000	0.798	0.770	1722	1260	7.44e6	9.39e6	4318.3	7453.5	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.031	5.086e5	6.462e5	1.103	0.787	0.770	1722	1260	7.59e6	9.61e6	4407.4	7623.5	NO	bb	bb	97.603
13C-12378-PeCDD	31.631	1.230	5.873e5	3.674e5	0.914	1.599	1.550	1804	1493	9.15e6	5.75e6	5075.5	3848.9	NO	bb	bb	97.357
13C-123478-HxCDD	36.109	0.987	5.695e5	4.361e5	0.933	1.306	1.240	2351	1925	9.66e6	7.35e6	4110.6	3818.4	NO	bd	bd	100.012
13C-123678-HxCDD	36.221	0.990	5.923e5	4.615e5	0.965	1.283	1.240	2351	1925	9.93e6	7.73e6	4224.3	4014.3	NO	db	db	101.353
13C-1234678-HpCDD	40.354	1.103	4.427e5	4.084e5	0.782	1.084	1.050	2415	1836	6.98e6	6.52e6	2888.8	3549.1	NO	bb	bb	100.984
13C-OCDD	45.110	1.232	8.153e5	8.896e5	0.788	0.916	0.890	2586	2058	1.02e7	1.13e7	3959.4	5482.6	NO	bb	bb	200.686
13C-123789-HxCDD	36.599	0.000	5.962e5	4.816e5	1.000	1.238	1.240	2351	1925	9.93e6	8.01e6	4225.3	4157.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.547	1.032	2.594e4		1.233			1770		3.86e5		217.9			bb		1.960

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:25 Pacific Standard Time

**ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	838	1562								
1289-TCDF					0.858		0.770	838	1562								
13468-PECDF					1.013		1.550	818	1180								
12389-PECDF					0.844		1.550	1494	1842								
123468-HXCDF					1.197		1.240	1528	1565								
1368-TCDD					1.084		0.770	817	918								
1289-TCDD					0.975		0.770	817	918								
12479-PECDD					1.837		1.550	957	1113								
12389-PECDD					1.252		1.550	957	1113								
124679-HXCDD					1.033		1.240	1419	1111								
1234679-HPCDD					1.286		1.050	939	1025								
Total-tetrafurans			1.375e4		0.933			838		2.10e5							1.973
Total-penta1			0.000e0					818		0.00e0							
Total-pentafurans			1.724e5		0.866			1494		2.63e6							20.570
Total-hexafurans			2.977e5		1.208			1528		4.67e6							39.267
Total-heptafurans			1.291e5		1.185			1538		2.05e6							19.990
Total-Furans			7.051e5		1.067			838		1.07e7							100.663
Total-tetradoxins			1.298e4		1.099			817		1.95e5							2.020
Total-pentadoxins			6.323e4		1.392			957		9.67e5							9.953
Total-hexadoxins			1.650e5		1.007			1419		2.76e6							29.363
Total-heptadoxins			5.329e4		1.269			939		8.27e5							9.623
Total-Dioxins			3.836e5		1.165			817		5.84e6							70.888
Total-TEQ			1.089e6					817		1.65e7							171.552
FUNCTION1 PFK			0.000e0					575758		0.00e0							
FUNCTION2 PFK			0.000e0					203146		0.00e0							
FUNCTION3 PFK			1.946e5					441294		6.25e6							0.000
FUNCTION4 PFK			6.766e5					326212		1.14e7							
FUNCTION5 PFK			7.829e4					177933		3.00e6							
FUNCTION1 HXCD...			6.944e2					716		1.19e4							0.000
FUNCTION1 HPCD...			4.187e2					801		7.47e3							0.000
FUNCTION2 HPCD...			7.244e2					1047		1.53e4							0.000
FUNCTION3 OCDPE			2.025e2					783		3.00e3							0.000
FUNCTION4 NCDPE			5.677e2					836		9.38e3							0.000
FUNCTION5 DCDPE			1.012e2					822		1.66e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:25 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: 03 Feb 2023 10:33:40****ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	1.375e4	1.851e4	0.876	0.74	0.77	250.5	YES	NO	bb	bb	1.973

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.40	8.811e4	5.691e4	0.911	1.55	1.55	880.0	YES	NO	dd	bd	10.430
2	Total-pentafurans	30.25	4.556e2	2.766e2	0.866	1.65	1.55	7.1	YES	NO	dd	db	0.054
3	12378-PeCDF	30.06	8.384e4	5.404e4	0.845	1.55	1.55	870.6	YES	NO	bd	bd	10.086

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	36.00	7.554e4	5.984e4	1.229	1.26	1.24	774.2	YES	NO	bd	bd	10.016
2	123678-HxCDF	35.14	8.156e4	6.332e4	1.248	1.29	1.24	801.6	YES	NO	dd	dd	9.876
3	123478-HxCDF	35.01	7.445e4	5.785e4	1.182	1.29	1.24	791.3	YES	NO	bd	bd	9.662
4	123789-HxCDF	37.02	6.616e4	5.058e4	1.187	1.31	1.24	687.4	YES	NO	bd	bd	9.712

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	5.916e4	5.737e4	1.165	1.03	1.05	549.5	YES	NO	bd	bd	10.092
2	1234678-HpCDF	38.86	6.989e4	6.457e4	1.204	1.08	1.05	782.0	YES	NO	bd	bb	9.897

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	1.375e4	1.851e4	0.876	0.74	0.77	250.5	YES	NO	bb	bb	1.973
2	23478-PeCDF	31.40	8.811e4	5.691e4	0.911	1.55	1.55	880.0	YES	NO	dd	bd	10.430
3	Total-pentafurans	30.25	4.556e2	2.766e2	0.866	1.65	1.55	7.1	YES	NO	dd	db	0.054
4	12378-PeCDF	30.06	8.384e4	5.404e4	0.845	1.55	1.55	870.6	YES	NO	bd	bd	10.086
5	234678-HxCDF	36.00	7.554e4	5.984e4	1.229	1.26	1.24	774.2	YES	NO	bd	bd	10.016
6	123678-HxCDF	35.14	8.156e4	6.332e4	1.248	1.29	1.24	801.6	YES	NO	dd	dd	9.876
7	123478-HxCDF	35.01	7.445e4	5.785e4	1.182	1.29	1.24	791.3	YES	NO	bd	bd	9.662
8	123789-HxCDF	37.02	6.616e4	5.058e4	1.187	1.31	1.24	687.4	YES	NO	bd	bd	9.712
9	1234789-HpCDF	41.11	5.916e4	5.737e4	1.165	1.03	1.05	549.5	YES	NO	bd	bd	10.092
10	1234678-HpCDF	38.86	6.989e4	6.457e4	1.204	1.08	1.05	782.0	YES	NO	bd	bb	9.897
11	OCDF	45.38	9.214e4	9.862e4	1.186	0.93	0.89	727.4	YES	NO	bd	bb	18.863

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.55	1.298e4	1.586e4	1.236	0.82	0.77	239.3	YES	NO	bb	bb	2.020

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.65	6.323e4	4.003e4	1.087	1.58	1.55	1010.9	YES	NO	bb	bb	9.953

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	36.88	1.448e2	1.055e2	1.007	1.37	1.24	2.8	NO	NO	bb	bb	0.024
2	123789-HxCDD	36.62	5.462e4	4.396e4	0.985	1.24	1.24	650.4	YES	NO	bb	bb	9.715
3	123678-HxCDD	36.23	5.670e4	4.717e4	1.021	1.20	1.24	649.0	YES	NO	db	db	9.657
4	123478-HxCDD	36.12	5.350e4	4.542e4	0.987	1.18	1.24	644.4	YES	NO	bd	bd	9.967

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.38	5.329e4	4.930e4	1.253	1.08	1.05	880.9	YES	NO	bd	bb	9.623

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
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**ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk**

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.65	6.323e4	4.003e4	1.087	1.58	1.55	1010.9	YES	NO	bb	bb	9.953
2	2378-TCDD	26.55	1.298e4	1.586e4	1.236	0.82	0.77	239.3	YES	NO	bb	bb	2.020
3	Total-hexadioxins	36.88	1.448e2	1.055e2	1.007	1.37	1.24	2.8	NO	NO	bb	bb	0.024
4	123789-HxCDD	36.62	5.462e4	4.396e4	0.985	1.24	1.24	650.4	YES	NO	bb	bb	9.715
5	123678-HxCDD	36.23	5.670e4	4.717e4	1.021	1.20	1.24	649.0	YES	NO	db	db	9.657
6	123478-HxCDD	36.12	5.350e4	4.542e4	0.987	1.18	1.24	644.4	YES	NO	bd	bd	9.967
7	1234678-HpCDD	40.38	5.329e4	4.930e4	1.253	1.08	1.05	880.9	YES	NO	bd	bb	9.623
8	OCDD	45.13	8.911e4	9.822e4	1.103	0.91	0.89	1009.3	YES	NO	bd	bb	19.929

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.90	1.375e4	1.851e4	0.876	0.74	0.77	250.5	YES	NO	bb	bb	1.973
2	23478-PeCDF	31.40	8.811e4	5.691e4	0.911	1.55	1.55	880.0	YES	NO	dd	bd	10.430
3	Total-pentafurans	30.25	4.556e2	2.766e2	0.866	1.65	1.55	7.1	YES	NO	dd	db	0.054
4	12378-PeCDF	30.06	8.384e4	5.404e4	0.845	1.55	1.55	870.6	YES	NO	bd	bd	10.086
5	234678-HxCDF	36.00	7.554e4	5.984e4	1.229	1.26	1.24	774.2	YES	NO	bd	bd	10.016
6	123678-HxCDF	35.14	8.156e4	6.332e4	1.248	1.29	1.24	801.6	YES	NO	dd	dd	9.876
7	123478-HxCDF	35.01	7.445e4	5.785e4	1.182	1.29	1.24	791.3	YES	NO	bd	bd	9.662
8	123789-HxCDF	37.02	6.616e4	5.058e4	1.187	1.31	1.24	687.4	YES	NO	bd	bd	9.712
9	1234789-HpCDF	41.11	5.916e4	5.737e4	1.165	1.03	1.05	549.5	YES	NO	bd	bd	10.092
10	1234678-HpCDF	38.86	6.989e4	6.457e4	1.204	1.08	1.05	782.0	YES	NO	bd	bb	9.897
11	OCDF	45.38	9.214e4	9.862e4	1.186	0.93	0.89	727.4	YES	NO	bd	bb	18.863
12	12378-PeCDD	31.65	6.323e4	4.003e4	1.087	1.58	1.55	1010.9	YES	NO	bb	bb	9.953
13	2378-TCDD	26.55	1.298e4	1.586e4	1.236	0.82	0.77	239.3	YES	NO	bb	bb	2.020
14	Total-hexadioxins	36.88	1.448e2	1.055e2	1.007	1.37	1.24	2.8	NO	NO	bb	bb	0.024
15	123789-HxCDD	36.62	5.462e4	4.396e4	0.985	1.24	1.24	650.4	YES	NO	bb	bb	9.715
16	123678-HxCDD	36.23	5.670e4	4.717e4	1.021	1.20	1.24	649.0	YES	NO	db	db	9.657
17	123478-HxCDD	36.12	5.350e4	4.542e4	0.987	1.18	1.24	644.4	YES	NO	bd	bd	9.967
18	1234678-HpCDD	40.38	5.329e4	4.930e4	1.253	1.08	1.05	880.9	YES	NO	bd	bb	9.623
19	OCDD	45.13	8.911e4	9.822e4	1.103	0.91	0.89	1009.3	YES	NO	bd	bb	19.929

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.84	3.684e4					1.4	NO		bb		0.000
2	FUNCTION3 PFK	37.56	3.248e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	37.40	1.502e4					1.5	NO		bb		0.000
4	FUNCTION3 PFK	36.84	6.471e3					0.8	NO		bb		0.000
5	FUNCTION3 PFK	36.52	9.443e3					0.9	NO		bb		0.000
6	FUNCTION3 PFK	36.37	4.140e3					0.7	NO		db		0.000
7	FUNCTION3 PFK	36.33	1.297e4					1.2	NO		bd		0.000
8	FUNCTION3 PFK	36.13	6.608e3					0.8	NO		bb		0.000
9	FUNCTION3 PFK	35.98	2.009e4					1.5	NO		bb		0.000
10	FUNCTION3 PFK	35.88	2.554e3					0.5	NO		bb		0.000
11	FUNCTION3 PFK	34.30	1.671e4					1.6	NO		bb		0.000
12	FUNCTION3 PFK	34.23	8.316e3					0.4	NO		bb		0.000
13	FUNCTION3 PFK	33.98	2.293e4					1.5	NO		bb		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.23	5.785e4					4.4	YES		dd		
2	FUNCTION4 PFK	38.15	1.010e5					5.4	YES		dd		
3	FUNCTION4 PFK	38.09	1.883e5					5.6	YES		bd		
4	FUNCTION4 PFK	42.87	1.204e4					1.0	NO		bb		
5	FUNCTION4 PFK	42.31	2.496e4					1.3	NO		bb		
6	FUNCTION4 PFK	41.49	1.586e4					1.0	NO		bb		
7	FUNCTION4 PFK	41.10	1.494e4					1.1	NO		bb		
8	FUNCTION4 PFK	40.87	1.555e4					1.4	NO		bb		
9	FUNCTION4 PFK	40.79	1.700e4					1.3	NO		bb		
10	FUNCTION4 PFK	40.65	5.082e3					0.8	NO		bb		
11	FUNCTION4 PFK	40.61	1.525e3					0.4	NO		bb		
12	FUNCTION4 PFK	40.14	1.620e4					1.6	NO		bb		
13	FUNCTION4 PFK	39.90	9.157e3					1.0	NO		bb		
14	FUNCTION4 PFK	39.83	9.091e3					1.1	NO		bb		
15	FUNCTION4 PFK	39.77	4.172e3					0.6	NO		bb		
16	FUNCTION4 PFK	39.63	1.903e3					0.5	NO		bb		
17	FUNCTION4 PFK	39.46	1.766e4					0.8	NO		bb		
18	FUNCTION4 PFK	38.45	3.531e4					1.7	NO		db		
19	FUNCTION4 PFK	38.27	1.290e5					3.8	YES		dd		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:25 Pacific Standard Time

ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.27	9.001e2					0.6	NO		bb		
2	FUNCTION5 PFK	46.15	5.202e3					1.0	NO		bb		
3	FUNCTION5 PFK	45.97	3.660e3					1.2	NO		bb		
4	FUNCTION5 PFK	45.51	1.153e4					2.2	NO		bb		
5	FUNCTION5 PFK	45.41	4.532e3					1.3	NO		db		
6	FUNCTION5 PFK	45.38	1.706e3					0.8	NO		bd		
7	FUNCTION5 PFK	45.15	2.865e3					1.0	NO		bb		
8	FUNCTION5 PFK	44.80	1.877e3					0.7	NO		bb		
9	FUNCTION5 PFK	44.65	3.851e3					1.1	NO		bb		
10	FUNCTION5 PFK	44.56	1.141e4					1.8	NO		bb		
11	FUNCTION5 PFK	44.31	2.169e4					1.9	NO		bb		
12	FUNCTION5 PFK	43.92	8.765e2					0.5	NO		bb		
13	FUNCTION5 PFK	43.88	8.623e2					0.5	NO		db		
14	FUNCTION5 PFK	43.86	1.005e3					0.6	NO		bd		
15	FUNCTION5 PFK	43.82	4.471e3					1.0	NO		bb		
16	FUNCTION5 PFK	46.36	1.842e3					0.7	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.26	9.013e1					2.4	NO		bb		0.000
2	FUNCTION1 HXCD...	26.52	1.374e2					3.3	YES		bb		0.000
3	FUNCTION1 HXCD...	26.35	1.141e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	25.31	7.923e1					2.3	NO		bb		0.000
5	FUNCTION1 HXCD...	24.07	1.307e2					3.2	YES		bb		0.000
6	FUNCTION1 HXCD...	22.72	1.428e2					3.3	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.58	7.978e1					2.2	NO		db		0.000
2	FUNCTION1 HPCD...	26.53	1.102e2					2.3	NO		bd		0.000
3	FUNCTION1 HPCD...	24.69	7.048e1					1.7	NO		bb		0.000
4	FUNCTION1 HPCD...	24.48	8.580e1					1.5	NO		bb		0.000
5	FUNCTION1 HPCD...	21.38	7.239e1					1.7	NO		bb		0.000

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:25 Pacific Standard Time

ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	28.37	7.170e1					2.5	NO		bb		0.000
2	FUNCTION2 HPCD...	31.76	2.583e2					2.7	NO		db		0.000
3	FUNCTION2 HPCD...	31.64	1.965e2					4.2	YES		bd		0.000
4	FUNCTION2 HPCD...	31.30	1.054e2					1.6	NO		bb		0.000
5	FUNCTION2 HPCD...	29.60	9.241e1					3.7	YES		bb		0.000

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.22	9.361e1					1.8	NO		bb		0.000
2	FUNCTION3 OCDPE	33.01	1.089e2					2.0	NO		bb		0.000

## ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.21	1.123e2					2.3	NO		db		0.000
2	FUNCTION4 NCDPE	41.16	1.047e2					2.3	NO		bd		0.000
3	FUNCTION4 NCDPE	41.00	7.125e1					1.9	NO		bb		0.000
4	FUNCTION4 NCDPE	38.88	9.103e1					1.9	NO		bb		0.000
5	FUNCTION4 NCDPE	38.50	1.884e2					2.9	NO		bb		0.000

## ETHERS6

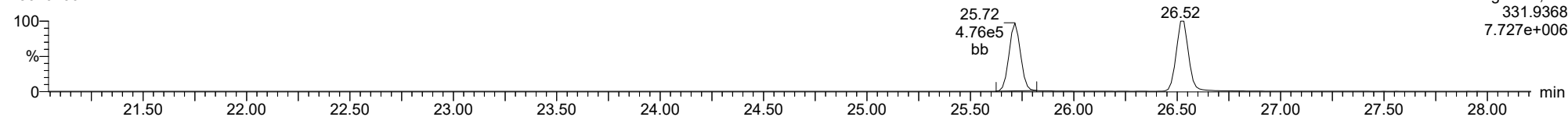
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.32	1.012e2					2.0	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: 03 Feb 2023 10:33:40

ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

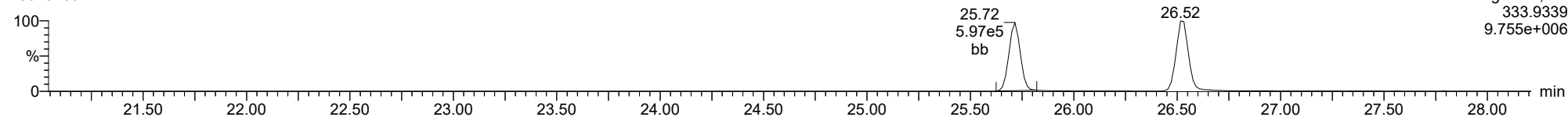
**13C-1234-TCDD**

23020106



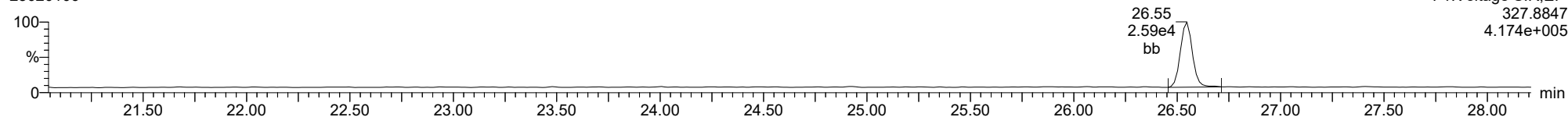
**13C-1234-TCDD**

23020106



**37CL-2378-TCDD**

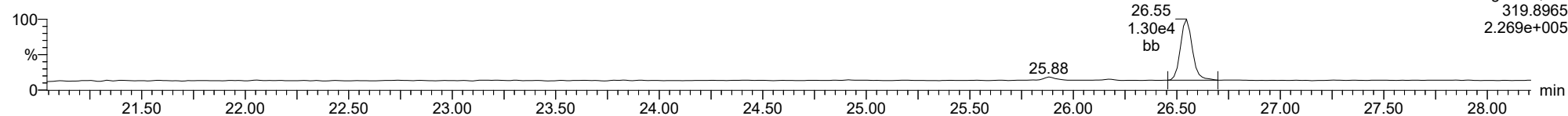
23020106



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

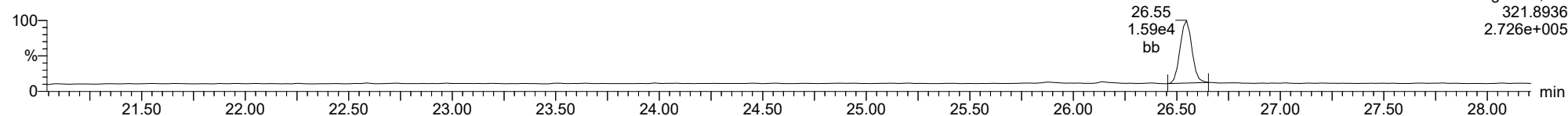
**2378-TCDD**

23020106



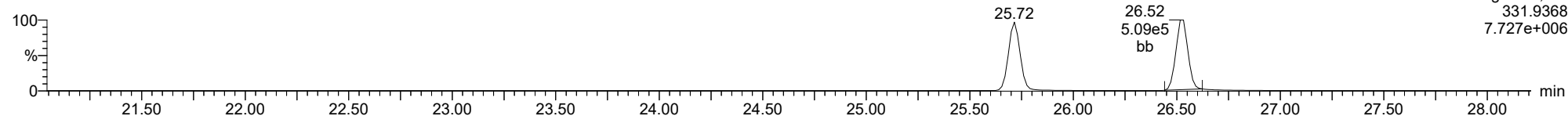
**2378-TCDD**

23020106



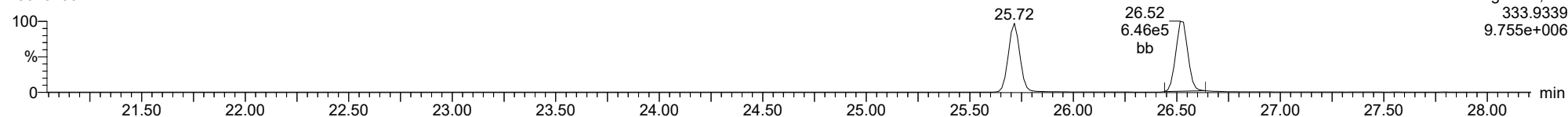
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23020106



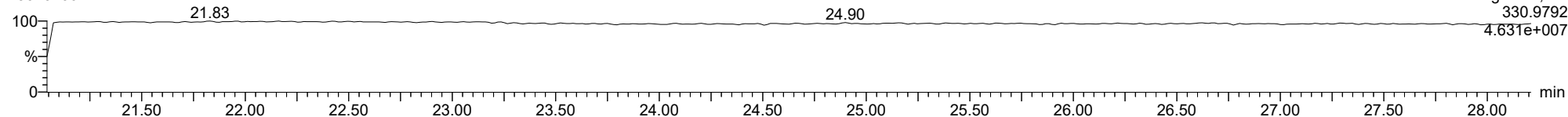
**13C-2378-TCDD**

23020106



**FUNCTION1 PFK**

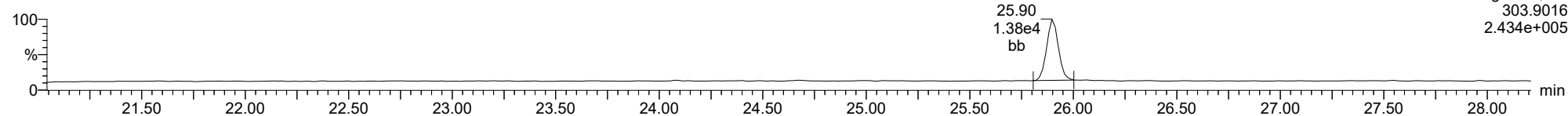
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

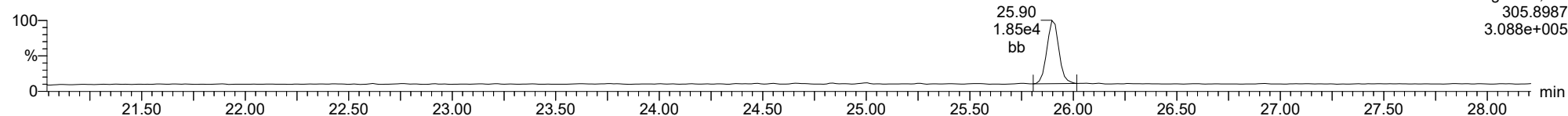
**2378-TCDF**

23020106



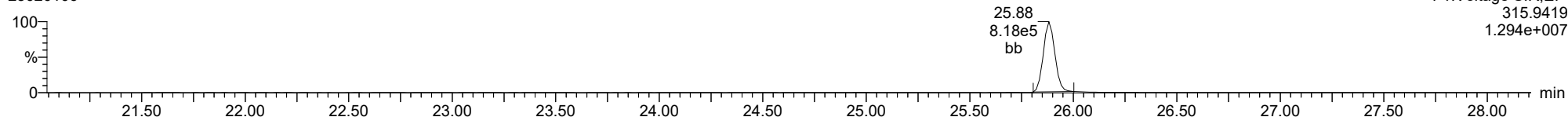
**2378-TCDF**

23020106



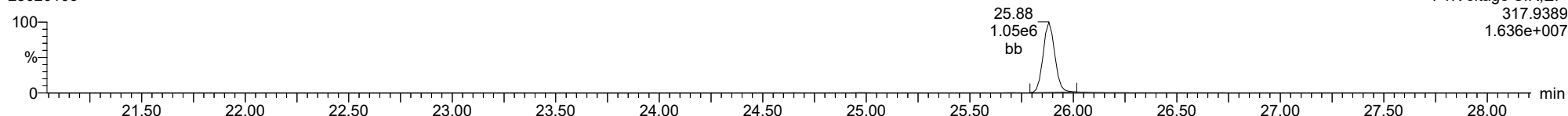
**13C-2378-TCDF**

23020106



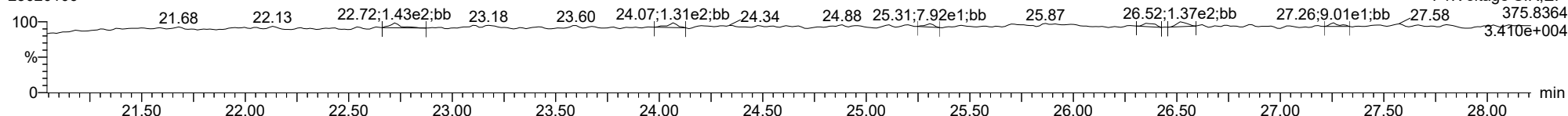
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23020106



**FUNCTION1 HXCDPE**

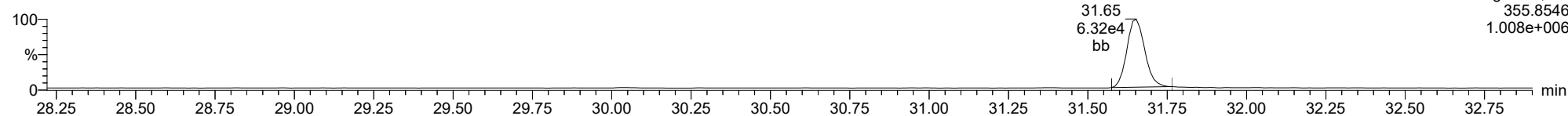
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

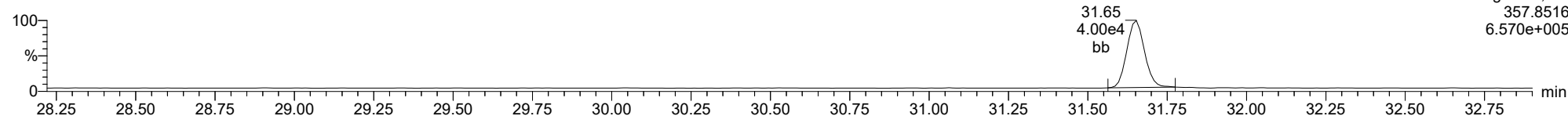
**12378-PeCDD**

23020106



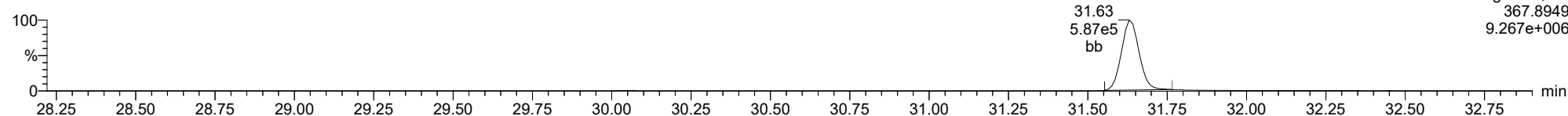
**12378-PeCDD**

23020106



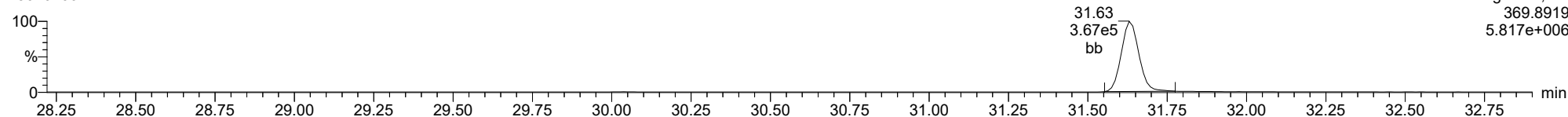
**13C-12378-PeCDD**

23020106



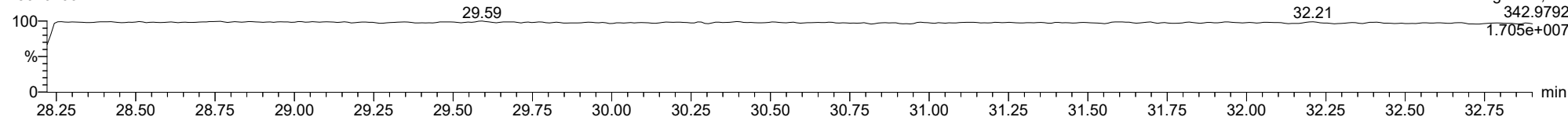
**13C-12378-PeCDD**

23020106



**FUNCTION2 PFK**

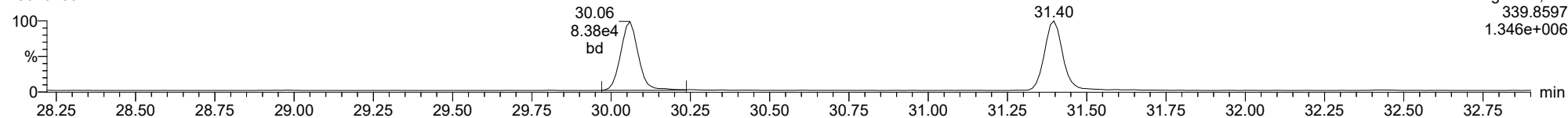
23020106



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

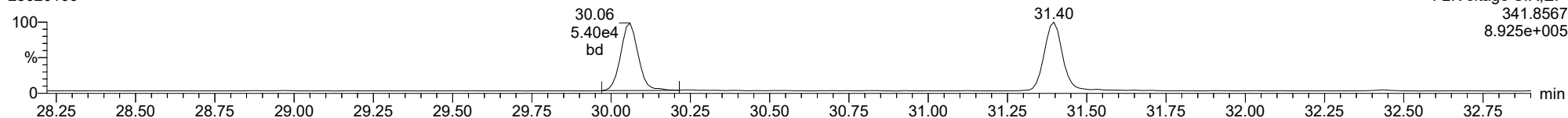
**12378-PeCDF**

23020106



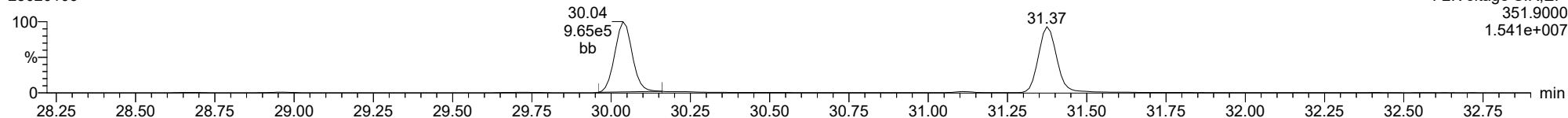
**12378-PeCDF**

23020106



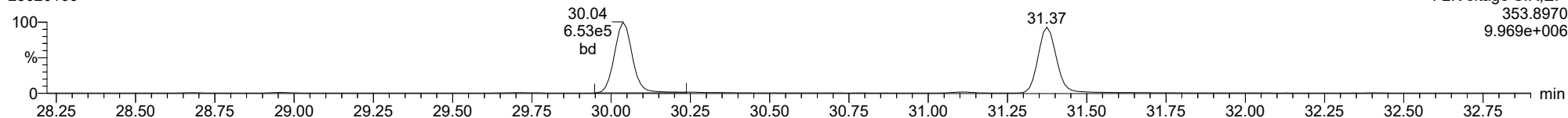
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23020106



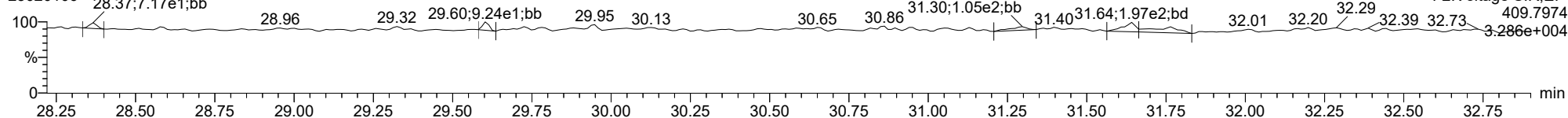
**13C-12378-PeCDF**

23020106



**FUNCTION2 HPCDPE**

23020106

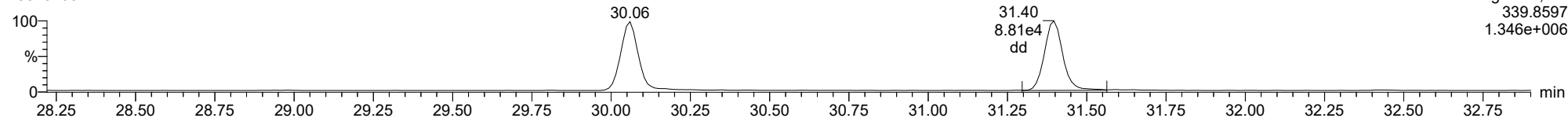




ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

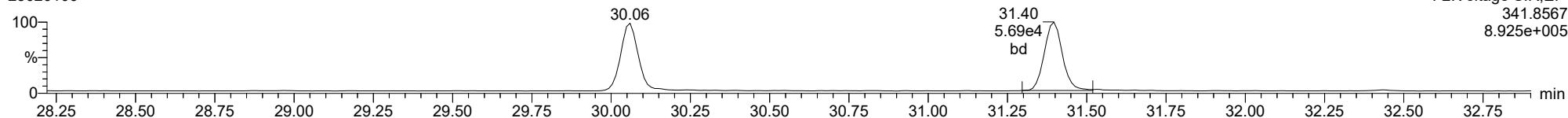
**23478-PeCDF**

23020106



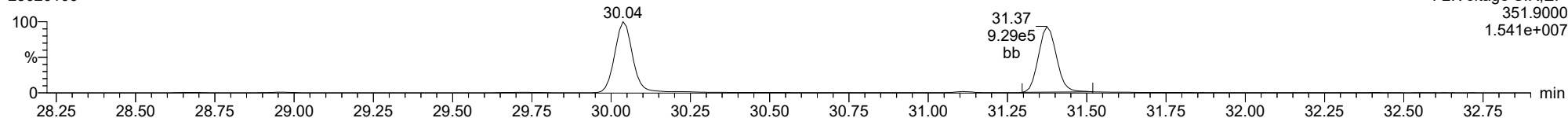
**23478-PeCDF**

23020106



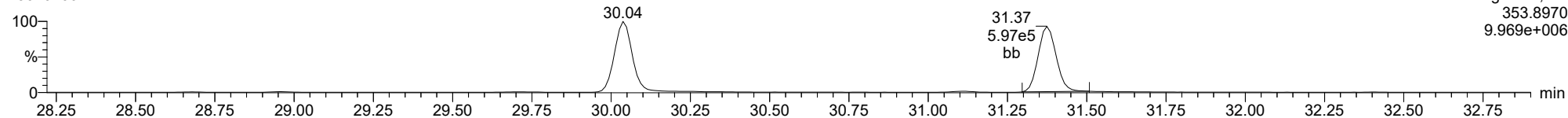
**13C-23478-PeCDF**

23020106



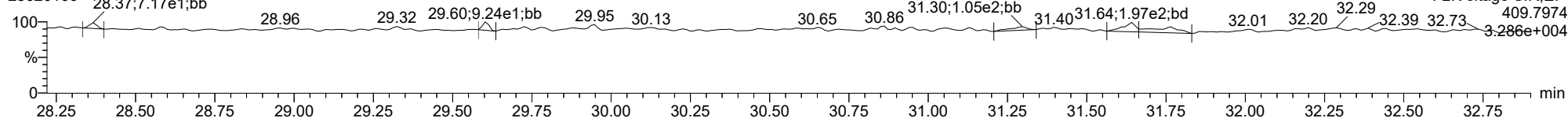
**13C-23478-PeCDF**

23020106



**FUNCTION2 HPCDPE**

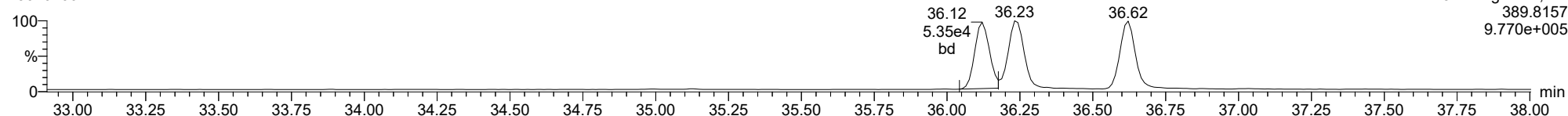
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

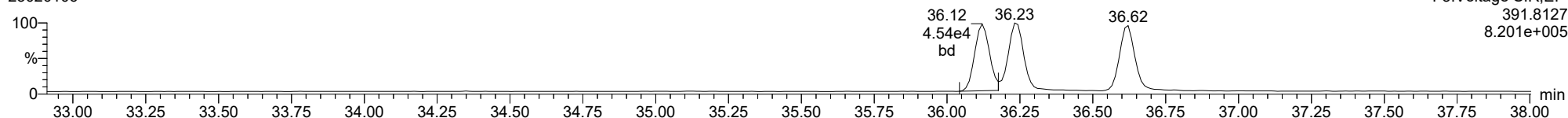
**123478-HxCDD**

23020106



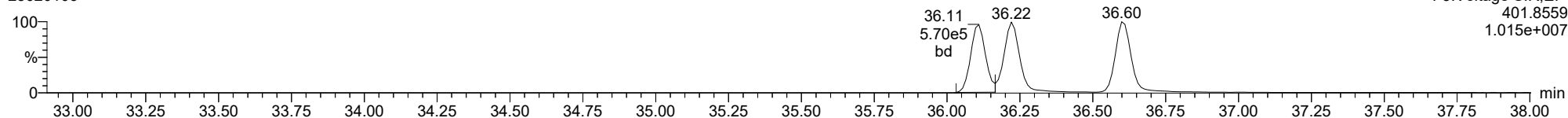
**123478-HxCDD**

23020106



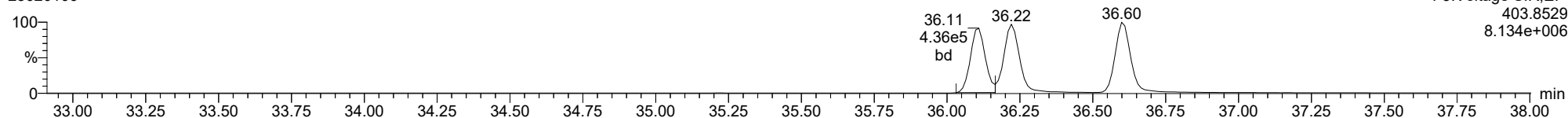
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23020106



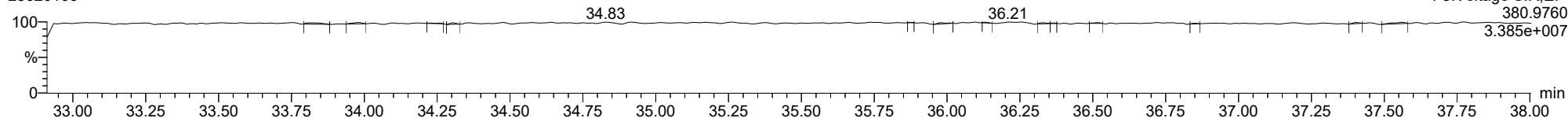
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23020106



**FUNCTION3 PFK**

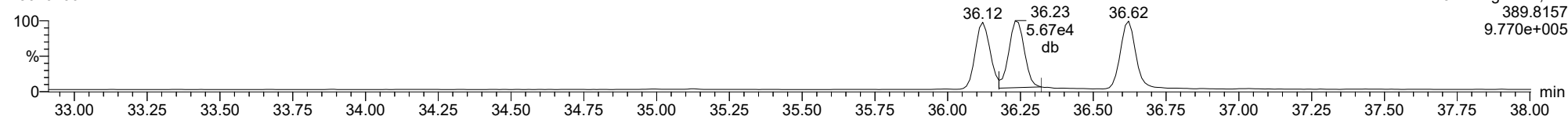
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

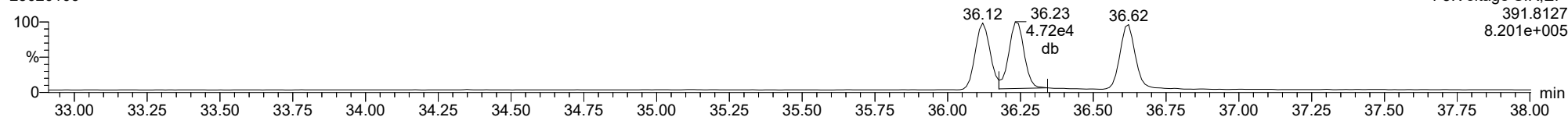
**123678-HxCDD**

23020106



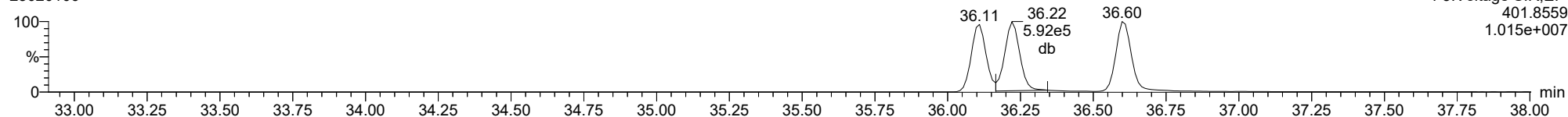
**123678-HxCDD**

23020106



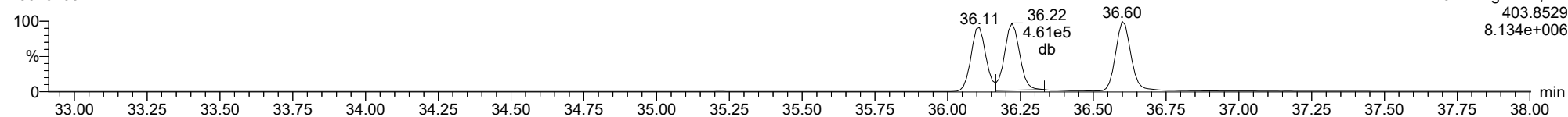
**13C-123678-HxCDD**

23020106



**13C-123678-HxCDD**

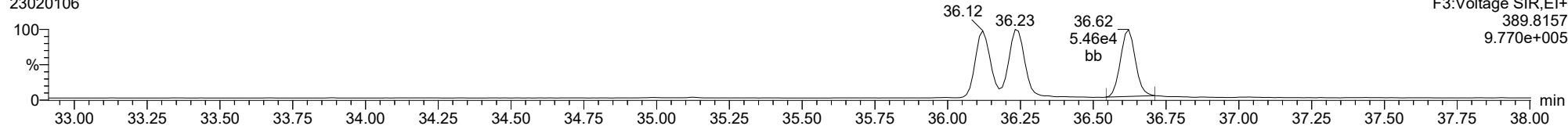
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

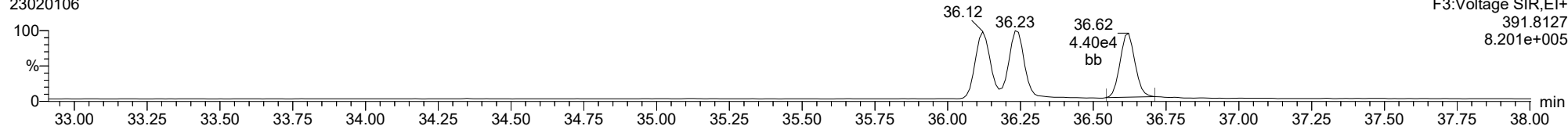
**123789-HxCDD**

23020106



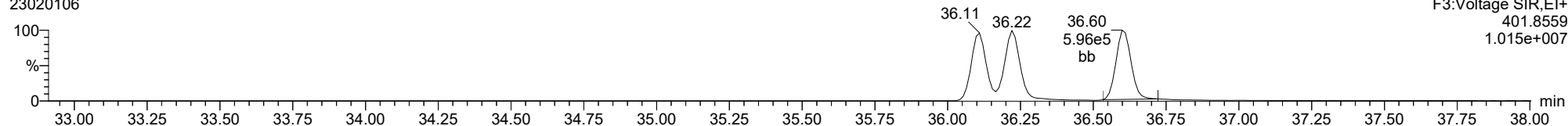
**123789-HxCDD**

23020106



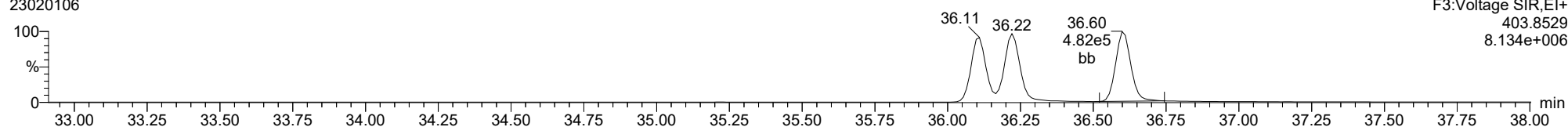
**13C-123789-HxCDD**

23020106



**13C-123789-HxCDD**

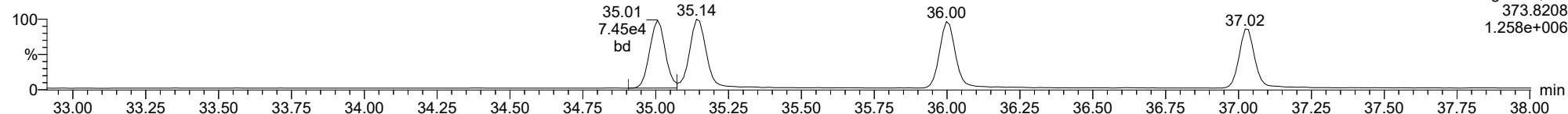
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

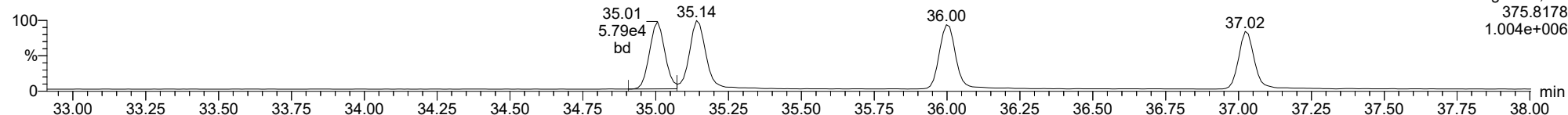
**123478-HxCDF**

23020106



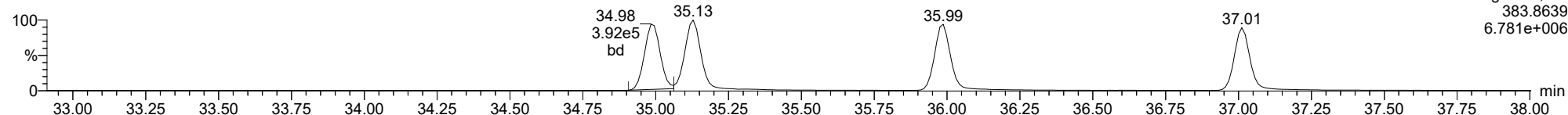
**123478-HxCDF**

23020106



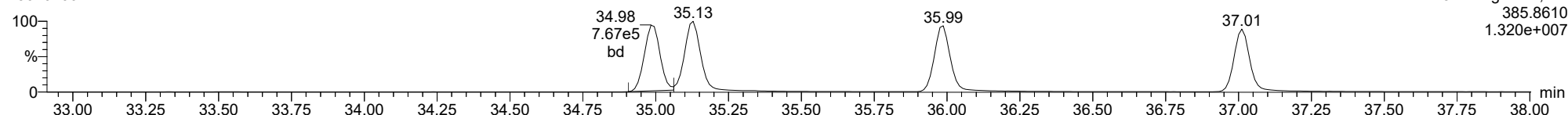
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23020106



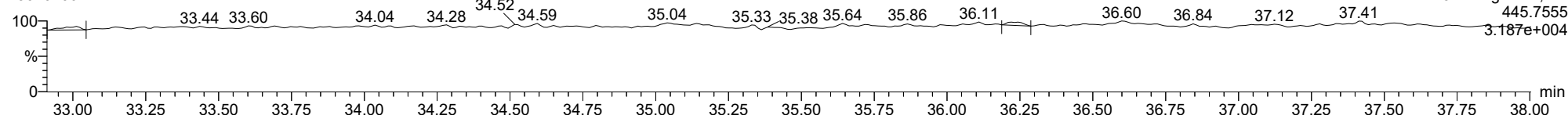
**13C-123478-HxCDF**

23020106



**FUNCTION3 OCDPE**

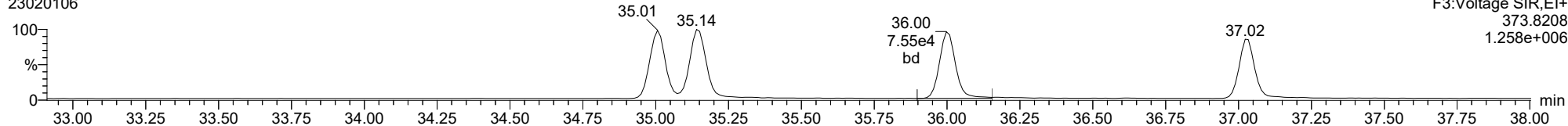
23020106



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

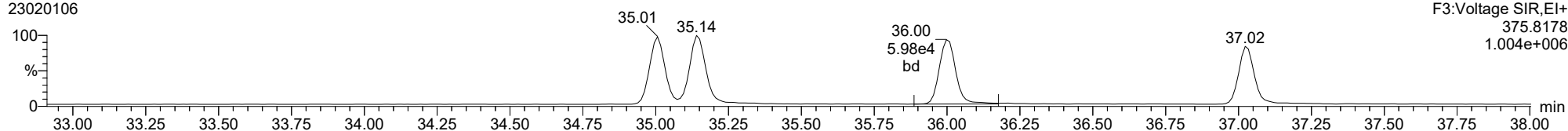
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23020106



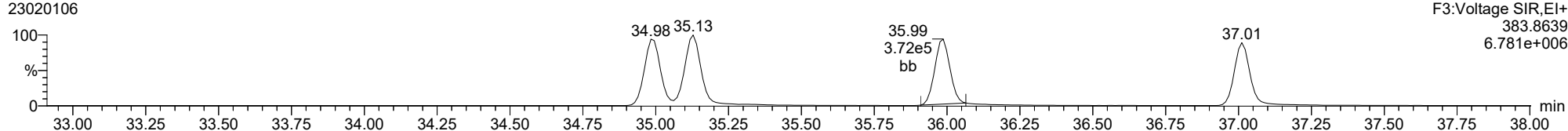
**234678-HxCDF**

23020106



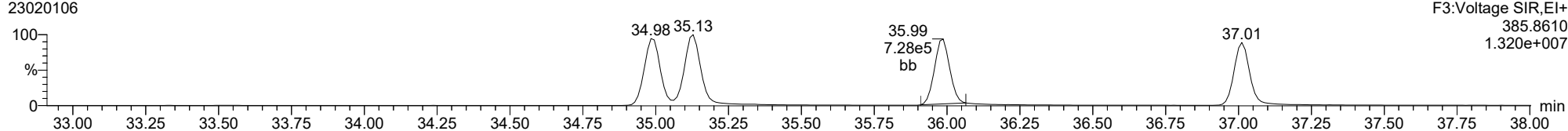
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23020106



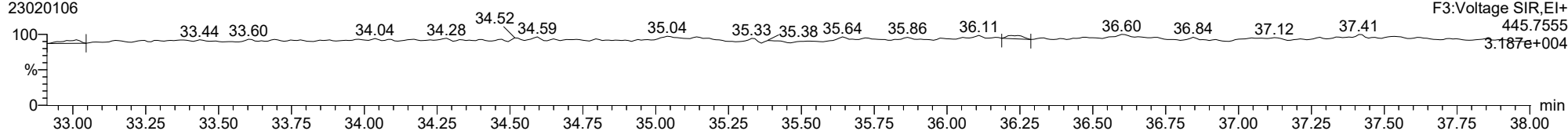
**13C-234678-HxCDF**

23020106



**FUNCTION3 OCDPE**

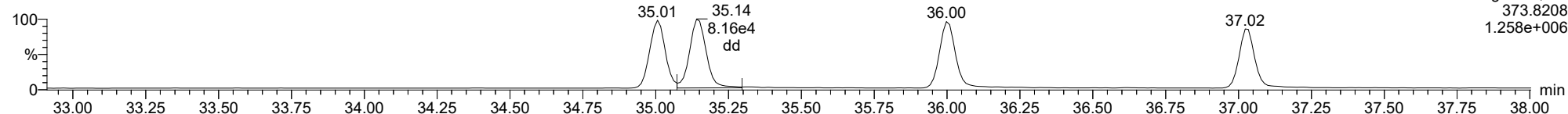
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

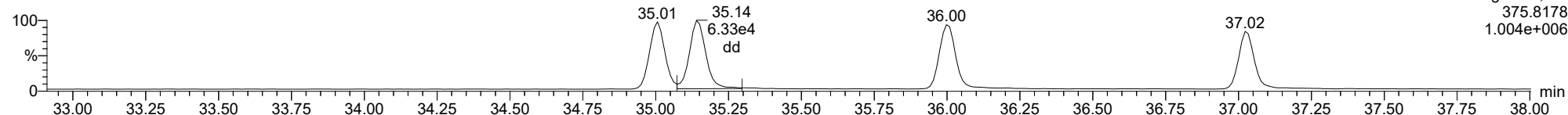
**123678-HxCDF**

23020106



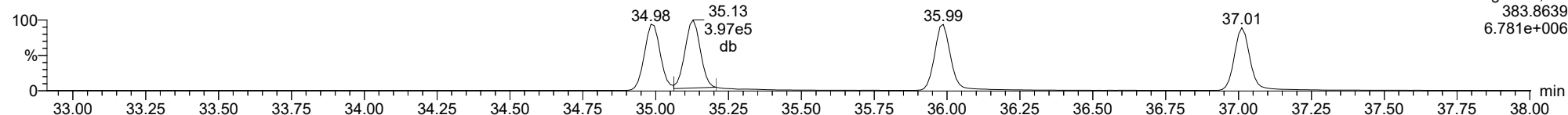
**123678-HxCDF**

23020106



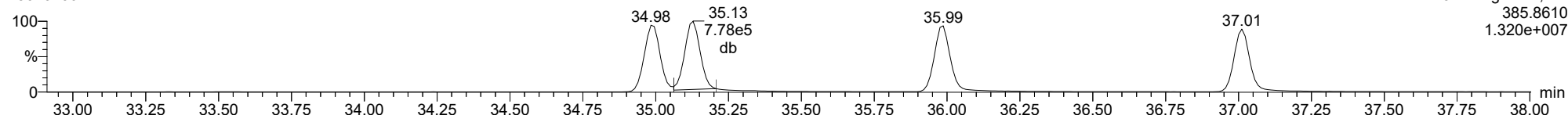
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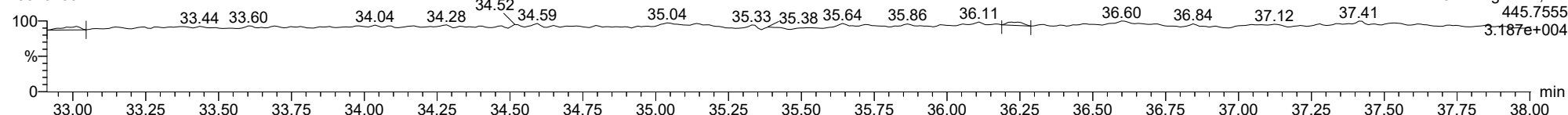
**13C-123678-HxCDF**

23020106



**FUNCTION3 OCDPE**

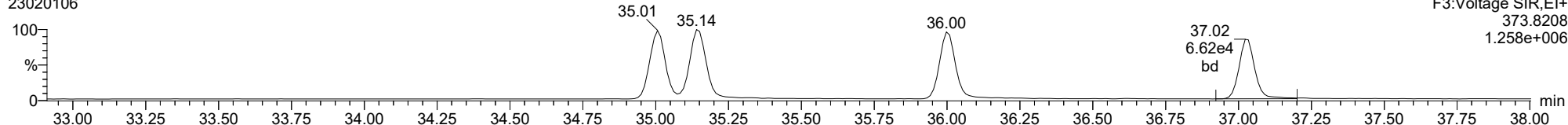
23020106



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

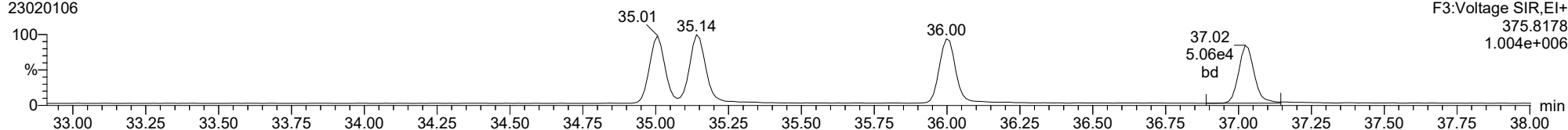
**123789-HxCDF**

23020106



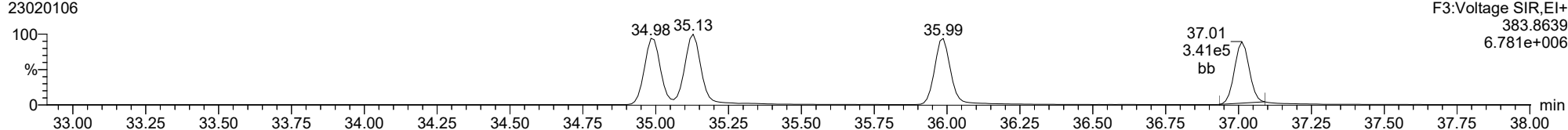
**123789-HxCDF**

23020106



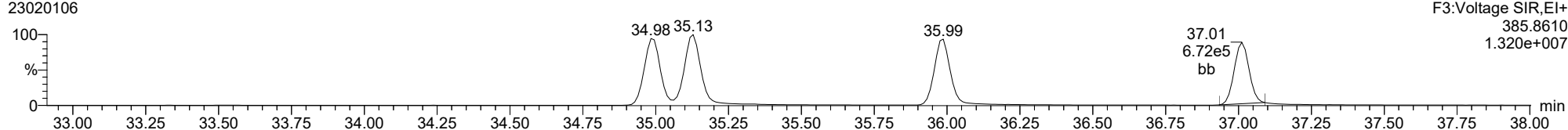
**13C-123789-HxCDF**

23020106



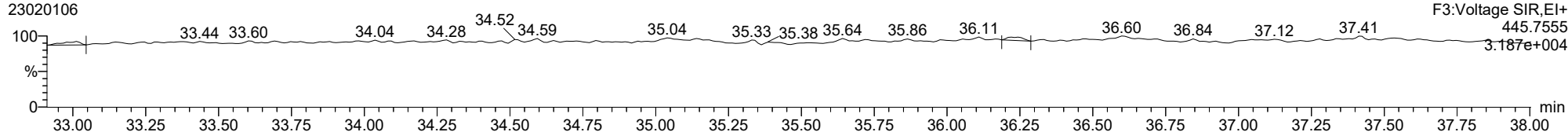
**13C-123789-HxCDF**

23020106



**FUNCTION3 OCDPE**

23020106

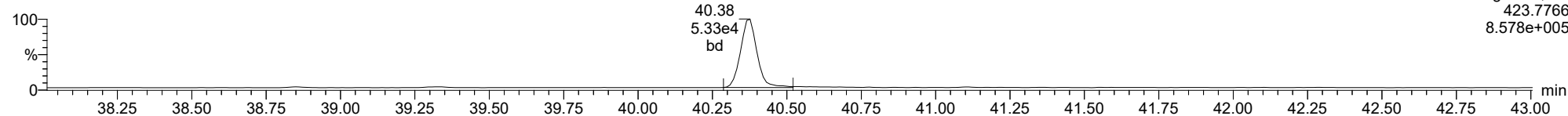




ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

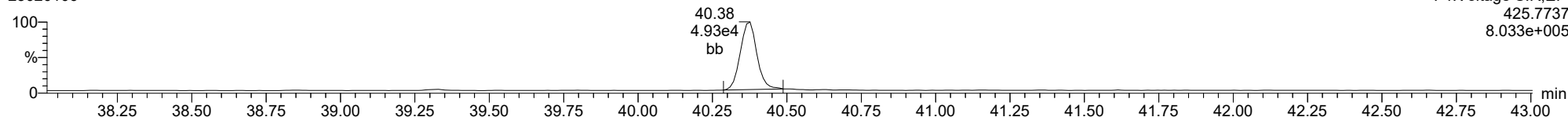
**1234678-HpCDD**

23020106



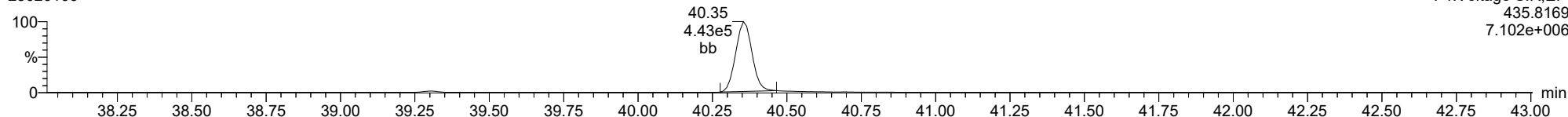
**1234678-HpCDD**

23020106



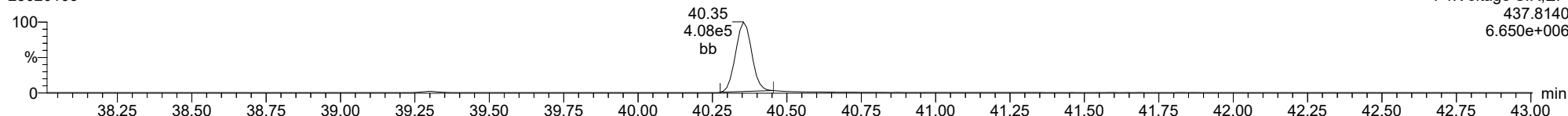
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23020106



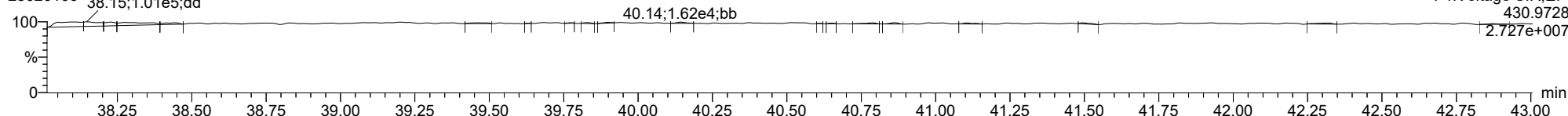
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23020106



**FUNCTION4 PFK**

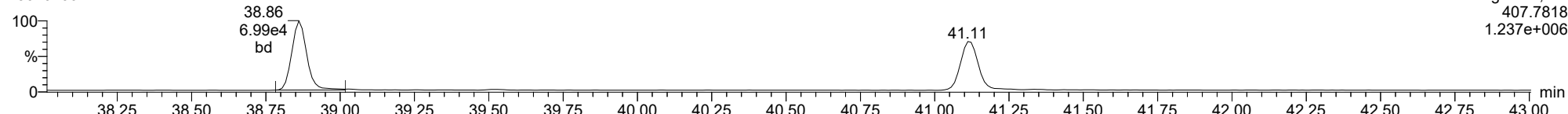
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

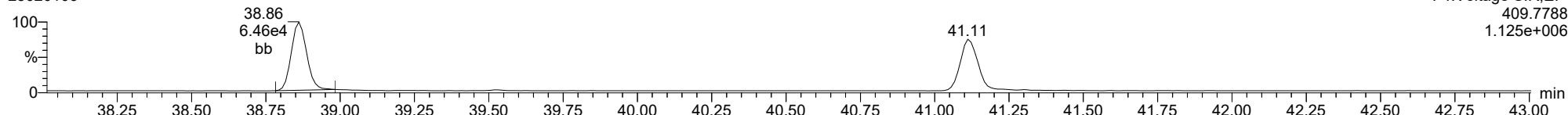
1234678-HpCDF

23020106



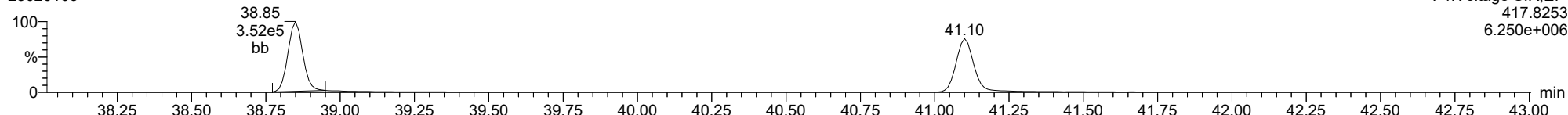
1234678-HpCDF

23020106



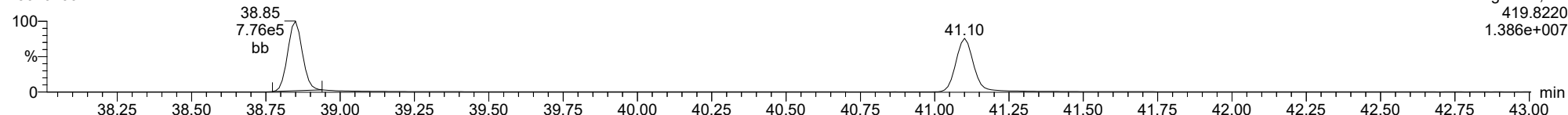
13C-1234678-HpCDF

23020106



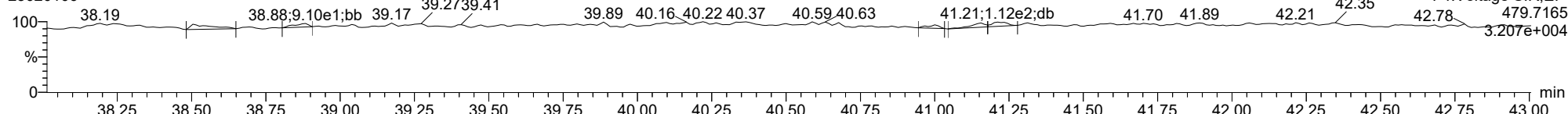
13C-1234678-HpCDF

23020106



FUNCTION4 NCDPE

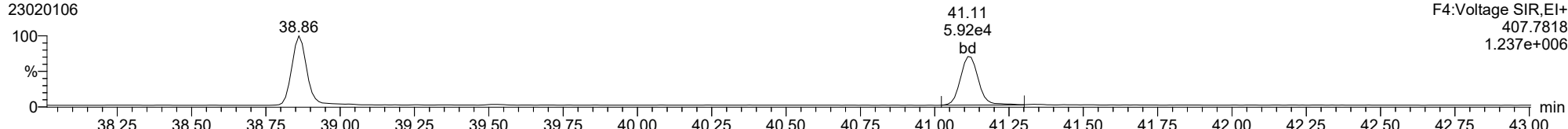
23020106



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

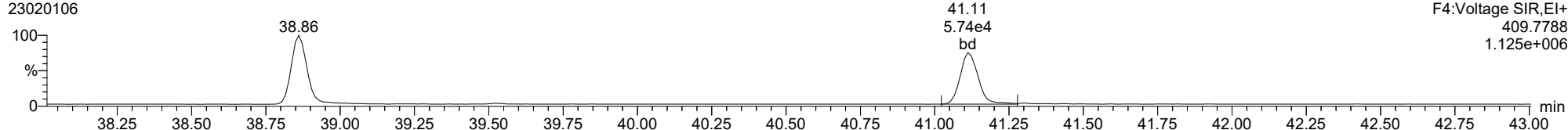
1234789-HpCDF

23020106



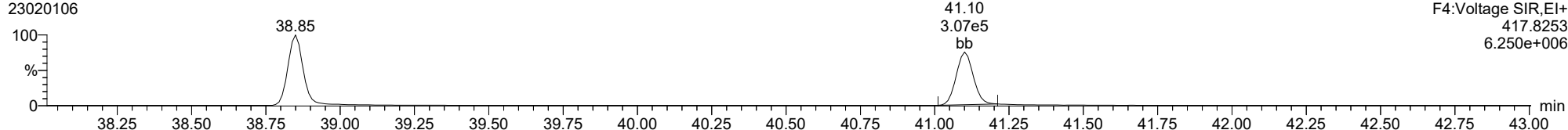
1234789-HpCDF

23020106



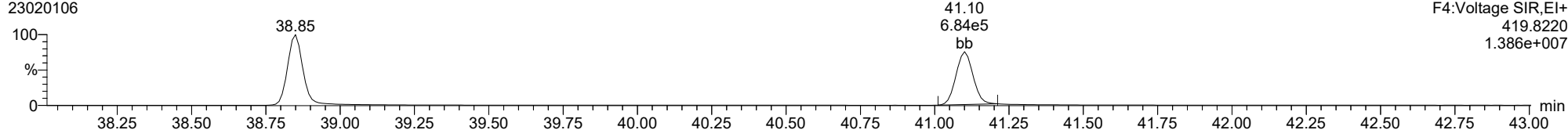
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23020106



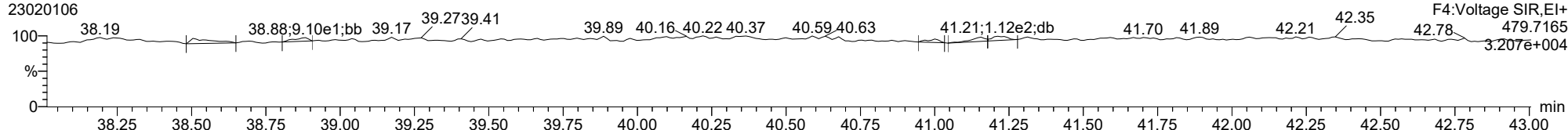
13C-1234789-HpCDF

23020106



FUNCTION4 NCDPE

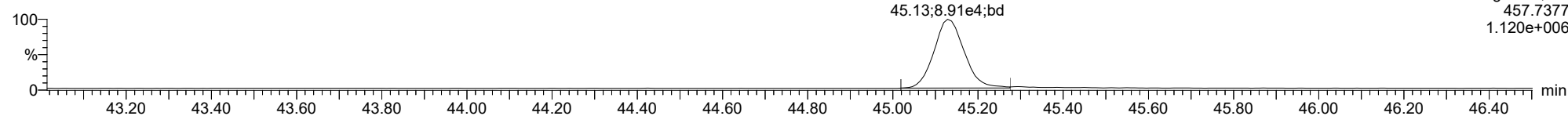
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

**OCDD**

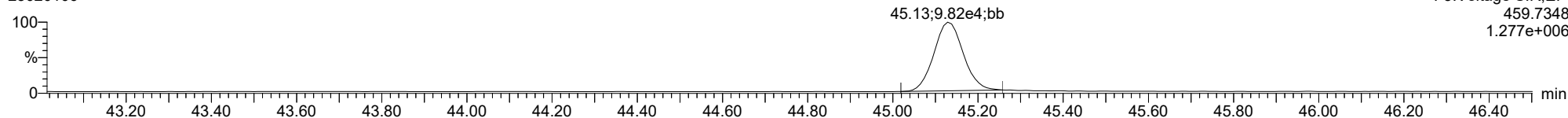
23020106



F5:Voltage SIR,El+  
459.7348  
1.120e+006

**OCDD**

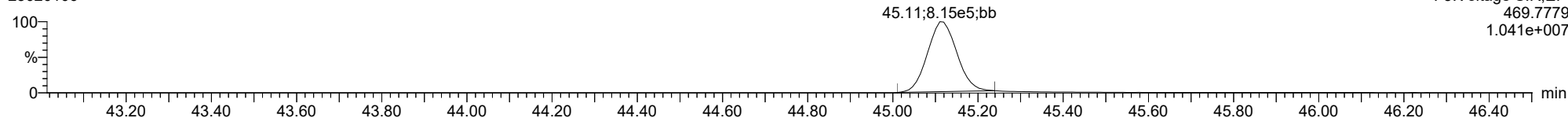
23020106



F5:Voltage SIR,El+  
459.7348  
1.277e+006

**13C-OCDD**

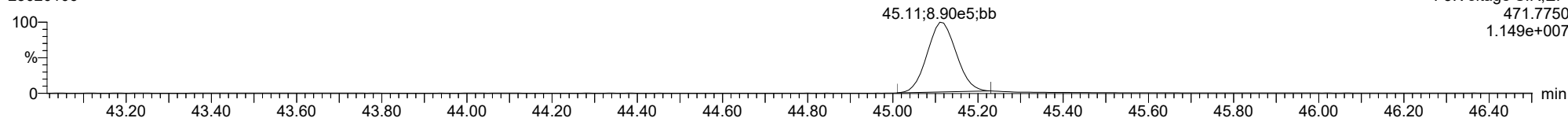
23020106



F5:Voltage SIR,El+  
469.7779  
1.041e+007

**13C-OCDD**

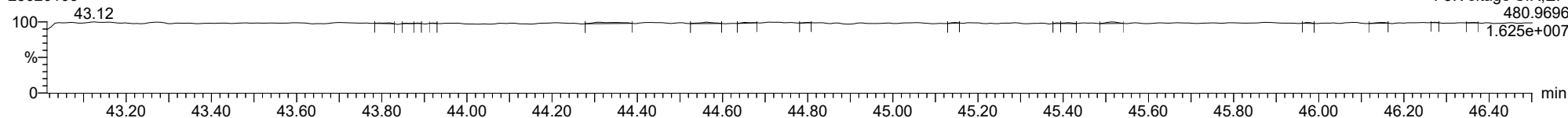
23020106



F5:Voltage SIR,El+  
471.7750  
1.149e+007

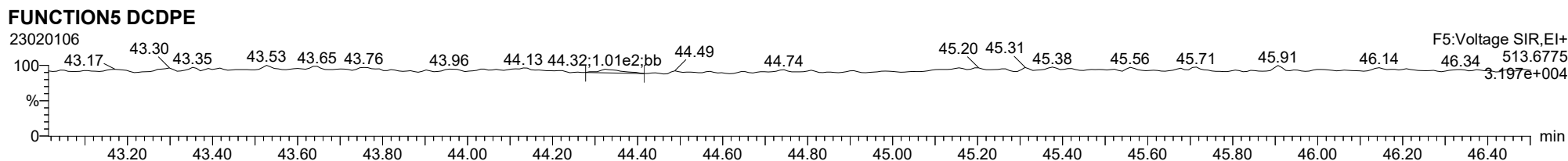
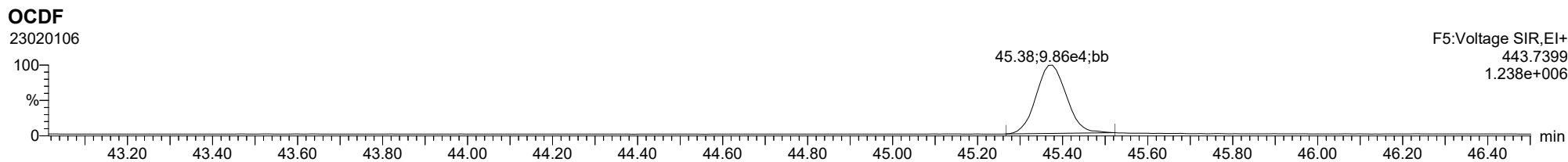
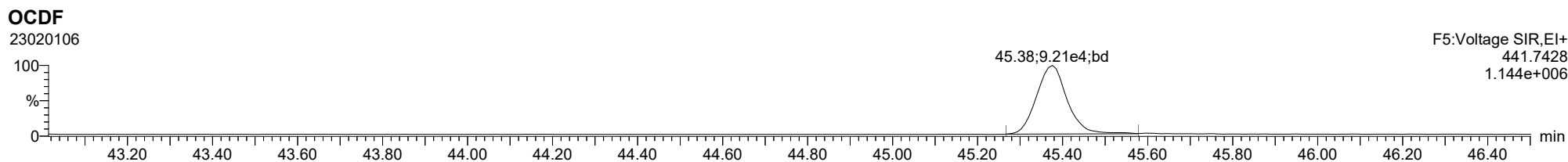
**FUNCTION5 PFK**

23020106



F5:Voltage SIR,El+  
480.9696  
1.625e+007

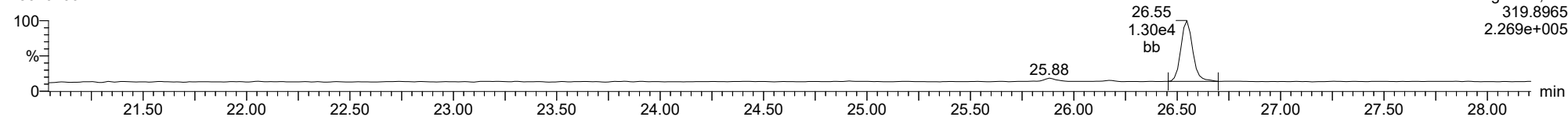
ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

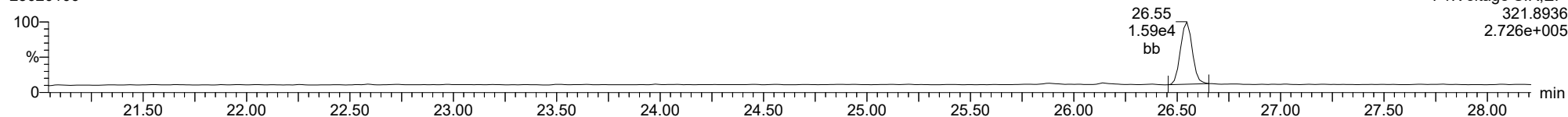
**Total-tetradoxins**

23020106



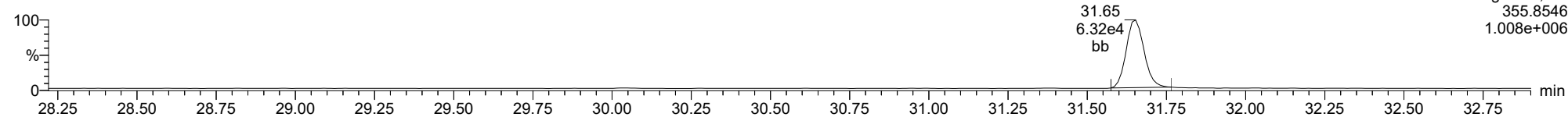
**Total-tetradoxins**

23020106



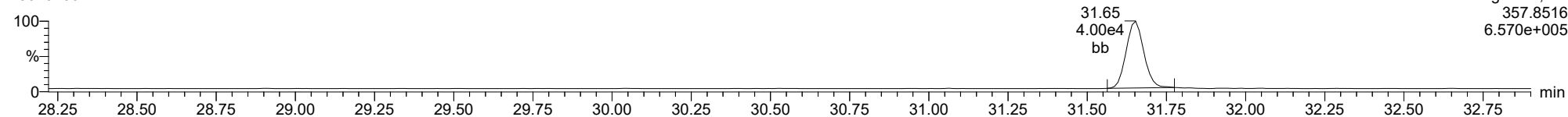
**Total-pentadoxins**

23020106



**Total-pentadoxins**

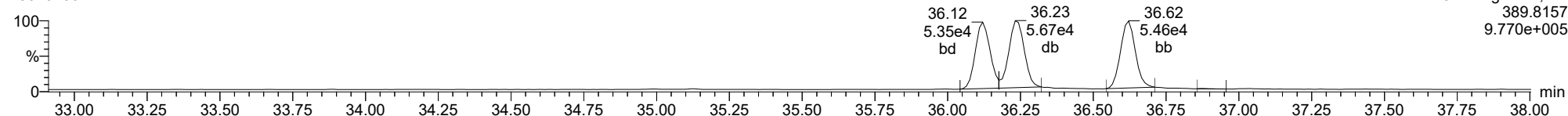
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

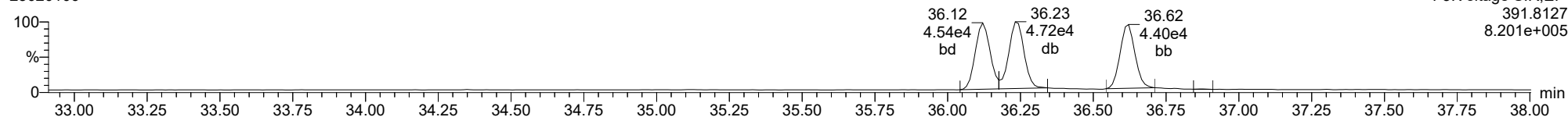
**Total-hexadioxins**

23020106



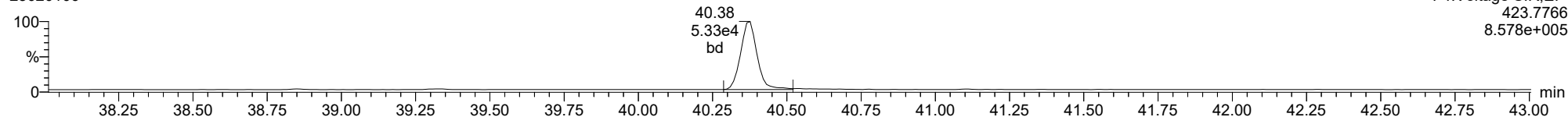
**Total-hexadioxins**

23020106



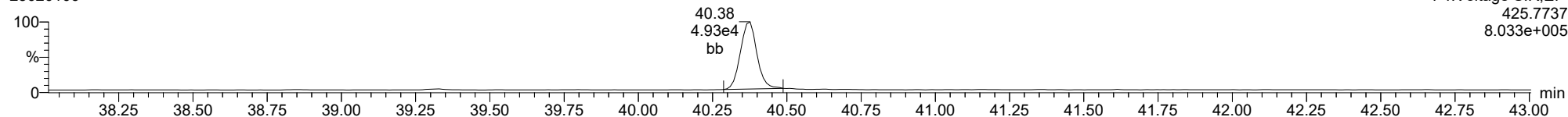
**Total-heptadioxins**

23020106



**Total-heptadioxins**

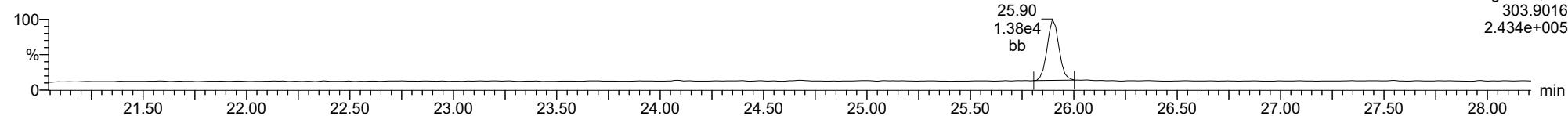
23020106



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

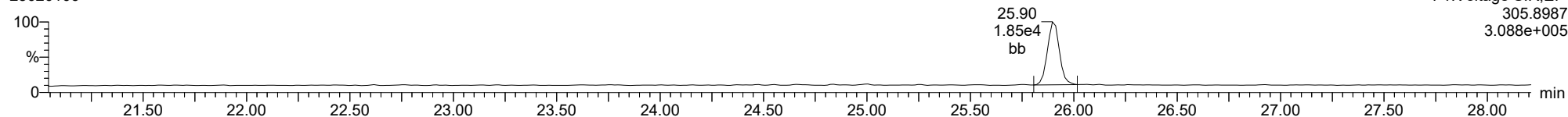
**Total-tetrafurans**

23020106



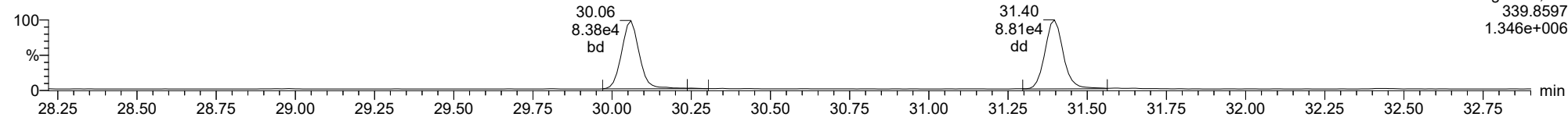
**Total-tetrafurans**

23020106



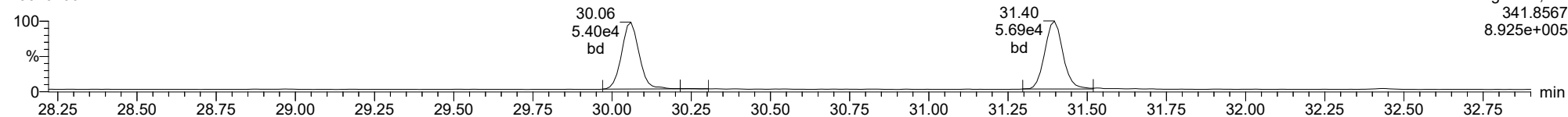
**Total-pentafurans**

23020106



**Total-pentafurans**

23020106

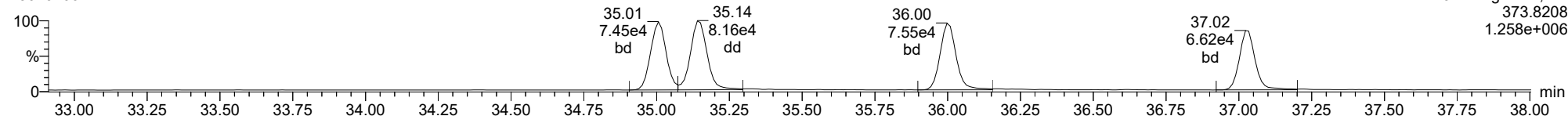




ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

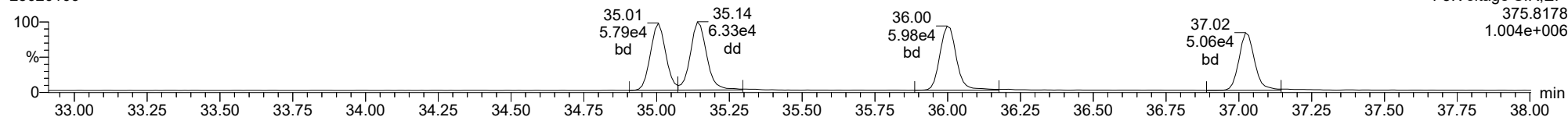
**Total-hexafurans**

23020106



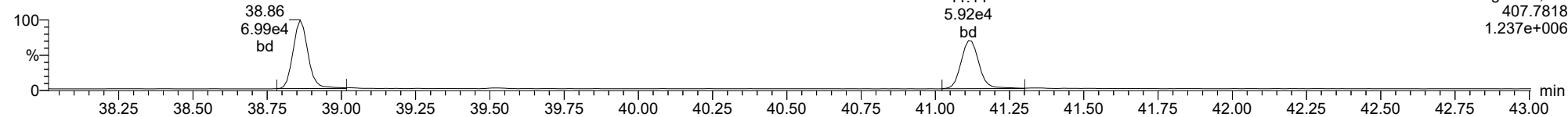
**Total-hexafurans**

23020106



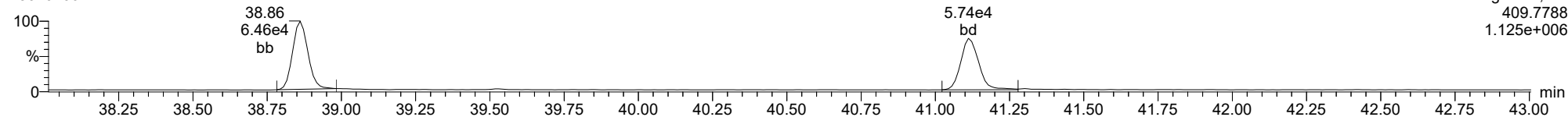
**Total-heptafurans**

23020106



**Total-heptafurans**

23020106



Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:38 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131H.mdb 03 Feb 2023 10:31:33  
 Calibration: 03 Feb 2023 10:33:40

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	6.453e4	8.749e4	0.876	0.738	0.770	1099	2026	9.86e5	1.33e6	897.2	656.5	NO	bb	bb	10.343
12378-PeCDF	30.048	1.001	3.683e5	2.382e5	0.845	1.546	1.550	3190	2595	5.70e6	3.69e6	1785.6	1421.3	NO	bb	bb	49.054
23478-PeCDF	31.385	1.001	3.878e5	2.552e5	0.911	1.520	1.550	3190	2595	5.98e6	3.95e6	1875.0	1521.7	NO	bb	bb	49.735
123478-HxCDF	34.995	1.001	3.439e5	2.707e5	1.182	1.271	1.240	3530	2719	5.57e6	4.47e6	1578.6	1645.2	NO	bd	bd	49.384
234678-HxCDF	35.987	1.000	3.473e5	2.734e5	1.229	1.270	1.240	3530	2719	5.49e6	4.36e6	1554.3	1603.8	NO	bd	bd	50.511
123678-HxCDF	35.129	1.000	3.705e5	2.941e5	1.248	1.260	1.240	3530	2719	5.50e6	4.37e6	1557.7	1606.9	NO	db	db	49.292
123789-HxCDF	37.012	1.000	3.044e5	2.379e5	1.187	1.279	1.240	3530	2719	4.78e6	3.76e6	1354.6	1383.4	NO	bb	bd	49.842
1234678-HpCDF	38.850	1.000	2.941e5	2.898e5	1.204	1.015	1.050	2499	2461	4.94e6	4.87e6	1976.6	1980.3	NO	bb	bb	47.249
1234789-HpCDF	41.100	1.000	2.575e5	2.639e5	1.165	0.976	1.050	2499	2461	3.86e6	3.76e6	1546.5	1528.6	NO	bb	bb	48.293
OCDF	45.357	1.006	3.904e5	4.394e5	1.186	0.889	0.890	2361	1464	4.77e6	5.34e6	2021.3	3646.6	NO	bb	bb	88.323
2378-TCDD	26.532	1.001	5.783e4	7.140e4	1.236	0.810	0.770	1261	1356	8.71e5	1.09e6	690.6	804.6	NO	bb	bb	9.200
12378-PeCDD	31.642	1.001	2.871e5	1.811e5	1.087	1.585	1.550	1935	1700	4.52e6	2.88e6	2335.1	1692.4	NO	bb	bb	49.835
123478-HxCDD	36.109	1.000	2.492e5	2.039e5	0.987	1.222	1.240	2775	1957	4.32e6	3.49e6	1555.2	1781.3	NO	bd	bd	49.339
123678-HxCDD	36.221	1.000	2.605e5	2.153e5	1.021	1.210	1.240	2775	1957	4.30e6	3.56e6	1550.9	1817.2	NO	db	db	49.052
123789-HxCDD	36.611	1.011	2.521e5	2.108e5	0.985	1.196	1.240	2775	1957	4.16e6	3.46e6	1500.2	1770.2	NO	bb	bb	49.951
1234678-HpCDD	40.354	1.000	2.309e5	2.219e5	1.253	1.041	1.050	2551	2394	3.57e6	3.40e6	1399.4	1422.4	NO	bb	bb	46.332
OCDD	45.119	1.000	3.877e5	4.205e5	1.103	0.922	0.890	2154	2574	4.65e6	5.24e6	2156.8	2035.9	NO	bd	bb	92.549
13C-2378-TCDF	25.867	1.007	7.414e5	9.363e5	1.768	0.792	0.770	2053	1619	1.15e7	1.43e7	5585.3	8856.7	NO	bb	bb	94.656
13C-12378-PeCDF	30.026	1.168	8.877e5	5.760e5	1.527	1.541	1.550	2967	1853	1.38e7	8.94e6	4662.3	4827.2	NO	bb	bb	95.615
13C-23478-PeCDF	31.363	1.220	8.562e5	5.626e5	1.466	1.522	1.550	2967	1853	1.33e7	8.64e6	4491.7	4663.8	NO	bb	bb	96.525
13C-123478-HxCDF	34.973	0.956	3.562e5	6.970e5	1.054	0.511	0.510	1992	2758	5.88e6	1.16e7	2952.0	4191.7	NO	bd	bd	100.726
13C-123678-HxCDF	35.118	0.960	3.647e5	7.156e5	1.080	0.510	0.510	1992	2758	5.88e6	1.14e7	2953.9	4143.1	NO	db	db	100.801
13C-234678-HxCDF	35.975	0.983	3.384e5	6.615e5	1.014	0.512	0.510	1992	2758	5.68e6	1.10e7	2849.9	4002.3	NO	bb	bb	99.342
13C-123789-HxCDF	37.000	1.011	3.154e5	6.016e5	0.928	0.524	0.510	1992	2758	5.40e6	1.05e7	2709.2	3801.7	NO	bb	bb	99.581
13C-1234678-HpCDF	38.839	1.061	3.227e5	7.036e5	1.036	0.459	0.440	2621	3052	5.41e6	1.21e7	2065.5	3959.7	NO	bb	bb	99.821
13C-1234789-HpCDF	41.089	1.123	2.972e5	6.294e5	0.905	0.472	0.440	2621	3052	4.32e6	9.59e6	1649.5	3143.4	NO	bd	bb	103.177
13C-1234-TCDD	25.700	0.000	4.469e5	5.555e5	1.000	0.804	0.770	2398	1542	7.04e6	8.78e6	2935.5	5692.9	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	4.991e5	6.371e5	1.103	0.783	0.770	2398	1542	7.48e6	9.58e6	3119.3	6212.6	NO	bb	bb	102.763
13C-12378-PeCDD	31.619	1.230	5.354e5	3.292e5	0.914	1.626	1.550	1302	1293	8.28e6	5.07e6	6359.2	3923.9	NO	bb	bb	94.346
13C-123478-HxCDD	36.098	0.987	5.251e5	4.053e5	0.933	1.296	1.240	1973	3288	8.80e6	6.71e6	4459.6	2041.7	NO	bd	bd	100.495
13C-123678-HxCDD	36.209	0.990	5.354e5	4.149e5	0.965	1.291	1.240	1973	3288	8.89e6	6.90e6	4507.2	2100.1	NO	db	db	99.280
13C-1234678-HpCDD	40.343	1.103	4.018e5	3.784e5	0.782	1.062	1.050	1997	2297	6.40e6	6.01e6	3207.1	2617.9	NO	bb	bb	100.543
13C-OCDD	45.101	1.233	7.578e5	8.262e5	0.788	0.917	0.890	2644	3522	9.52e6	1.02e7	3599.3	2906.4	NO	bb	bb	202.502
13C-123789-HxCDD	36.588	0.000	5.534e5	4.389e5	1.000	1.261	1.240	1973	3288	9.19e6	7.27e6	4657.5	2210.2	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.115e5		1.233			1579		1.70e6		1075.4			bb		9.021

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:38 Pacific Standard Time

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	7.831e4	1.003e5	1.064	0.781	0.770	1099	2026	1.24e6	1.58e6	1124.6	780.3	NO	bb	bb	10.000
1289-TCDF	27.378	1.058	6.314e4	8.075e4	0.858	0.782	0.770	1099	2026	9.07e5	1.18e6	825.1	582.8	NO	db	db	10.000
13468-PECDF	27.243	0.907	4.504e5	2.910e5	1.013	1.548	1.550	1001	928	7.08e6	4.58e6	7076.3	4935.5	NO	bb	bb	50.000
12389-PECDF	32.422	1.080	3.693e5	2.481e5	0.844	1.488	1.550	3190	2595	5.63e6	3.73e6	1765.9	1435.6	NO	bb	bb	50.000
123468-HXCDF	33.335	0.953	3.538e5	2.768e5	1.197	1.278	1.240	3530	2719	5.41e6	4.18e6	1531.9	1537.1	NO	bb	bd	50.000
1368-TCDD	23.659	0.892	5.365e4	6.956e4	1.084	0.771	0.770	1261	1356	8.58e5	1.11e6	680.3	820.3	NO	bb	bb	10.000
1289-TCDD	27.122	1.023	4.896e4	6.184e4	0.975	0.792	0.770	1261	1356	7.39e5	9.25e5	586.4	682.2	NO	bb	bb	10.000
12479-PECDD	28.912	0.914	4.860e5	3.082e5	1.837	1.577	1.550	1935	1700	4.68e6	2.92e6	2418.8	1714.3	NO	bb	bb	50.000
12389-PECDD	32.032	1.013	3.312e5	2.102e5	1.252	1.576	1.550	1935	1700	5.26e6	3.30e6	2720.3	1940.3	NO	bb	bb	50.000
124679-HXCDD	34.104	0.945	2.650e5	2.155e5	1.033	1.230	1.240	2775	1957	4.22e6	3.42e6	1521.7	1748.3	NO	bb	bb	50.000
1234679-HPCDD	39.307	0.974	2.579e5	2.438e5	1.286	1.058	1.050	2551	2394	4.26e6	3.98e6	1669.1	1662.1	NO	bb	bb	50.000
Total-tetrafurans			2.076e5		0.933			1099		3.16e6							30.586
Total-penta1			4.504e5					1001		7.08e6							50.000
Total-pentafurans			1.187e6		0.866			3190		1.83e7							156.881
Total-hexafurans			1.720e6		1.208			3530		2.67e7							249.030
Total-heptafurans			5.536e5		1.185			2499		8.83e6							95.864
Total-Furans			4.509e6		1.067			1099		6.89e7							670.685
Total-tetradoxins			2.732e5		1.099			1261		3.78e6							49.490
Total-pentadoxins			1.106e6		1.392			1935		1.45e7							150.052
Total-hexadoxins			1.027e6		1.007			2775		1.70e7							198.343
Total-heptadoxins			4.888e5		1.269			2551		7.83e6							96.332
Total-Dioxins			3.282e6		1.165			1261		4.77e7							586.766
Total-TEQ			7.791e6					1261		1.17e8							1257.451
FUNCTION1 PFK			2.071e7					567379		2.38e8							
FUNCTION2 PFK			0.000e0					180306		0.00e0							
FUNCTION3 PFK			2.786e4					420708		9.12e5							0.000
FUNCTION4 PFK			7.534e5					257681		1.24e7							
FUNCTION5 PFK			1.239e5					175535		5.02e6							
FUNCTION1 HXCD...			1.237e3					791		2.01e4							0.000
FUNCTION1 HPCD...			1.368e3					947		2.24e4							0.000
FUNCTION2 HPCD...			4.817e2					887		9.10e3							0.000
FUNCTION3 OCDPE			4.485e2					809		9.17e3							0.000
FUNCTION4 NCDPE			3.809e2					922		7.31e3							0.000
FUNCTION5 DCDPE			0.000e0					753		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
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**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**

**Calibration: 03 Feb 2023 10:33:40**

**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.314e4	8.075e4	0.858	0.78	0.77	825.1	YES	NO	db	db	10.000
2	Total-tetrafurans	27.24	1.177e3	1.490e3	0.933	0.79	0.77	17.2	YES	NO	bd	bd	0.170
3	2378-TCDF	25.88	6.453e4	8.749e4	0.876	0.74	0.77	897.2	YES	NO	bb	bb	10.343
4	Total-tetrafurans	24.81	4.913e2	6.353e2	0.933	0.77	0.77	7.1	YES	NO	dd	db	0.072
5	1368-TCDF	22.39	7.831e4	1.003e5	1.064	0.78	0.77	1124.6	YES	NO	bb	bb	10.000

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	4.504e5	2.910e5	1.013	1.55	1.55	7076.3	YES	NO	bb	bb	50.000

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.42	3.693e5	2.481e5	0.844	1.49	1.55	1765.9	YES	NO	bb	bb	50.000
2	23478-PeCDF	31.39	3.878e5	2.552e5	0.911	1.52	1.55	1875.0	YES	NO	bb	bb	49.735
3	12378-PeCDF	30.05	3.683e5	2.382e5	0.845	1.55	1.55	1785.6	YES	NO	bb	bb	49.054
4	Total-pentafurans	28.90	6.175e4	3.932e4	0.866	1.57	1.55	301.5	YES	NO	bb	bb	8.093

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.13	3.705e5	2.941e5	1.248	1.26	1.24	1557.7	YES	NO	db	db	49.292
2	123478-HxCDF	34.99	3.439e5	2.707e5	1.182	1.27	1.24	1578.6	YES	NO	bd	bd	49.384
3	123468-HxCDF	33.34	3.538e5	2.768e5	1.197	1.28	1.24	1531.9	YES	NO	bb	bd	50.000
4	123789-HxCDF	37.01	3.044e5	2.379e5	1.187	1.28	1.24	1354.6	YES	NO	bb	bd	49.842
5	234678-HxCDF	35.99	3.473e5	2.734e5	1.229	1.27	1.24	1554.3	YES	NO	bd	bd	50.511

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	2.575e5	2.639e5	1.165	0.98	1.05	1546.5	YES	NO	bb	bb	48.293
2	Total-heptafurans	39.51	1.970e3	1.765e3	1.185	1.12	1.05	11.2	YES	NO	bb	bb	0.323
3	1234678-HpCDF	38.85	2.941e5	2.898e5	1.204	1.01	1.05	1976.6	YES	NO	bb	bb	47.249

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.314e4	8.075e4	0.858	0.78	0.77	825.1	YES	NO	db	db	10.000
2	Total-tetrafurans	27.24	1.177e3	1.490e3	0.933	0.79	0.77	17.2	YES	NO	bd	bd	0.170
3	2378-TCDF	25.88	6.453e4	8.749e4	0.876	0.74	0.77	897.2	YES	NO	bb	bb	10.343
4	Total-tetrafurans	24.81	4.913e2	6.353e2	0.933	0.77	0.77	7.1	YES	NO	dd	db	0.072
5	1368-TCDF	22.39	7.831e4	1.003e5	1.064	0.78	0.77	1124.6	YES	NO	bb	bb	10.000
6	12389-PECDF	32.42	3.693e5	2.481e5	0.844	1.49	1.55	1765.9	YES	NO	bb	bb	50.000
7	23478-PeCDF	31.39	3.878e5	2.552e5	0.911	1.52	1.55	1875.0	YES	NO	bb	bb	49.735
8	12378-PeCDF	30.05	3.683e5	2.382e5	0.845	1.55	1.55	1785.6	YES	NO	bb	bb	49.054
9	Total-pentafurans	28.90	6.175e4	3.932e4	0.866	1.57	1.55	301.5	YES	NO	bb	bb	8.093
10	123678-HxCDF	35.13	3.705e5	2.941e5	1.248	1.26	1.24	1557.7	YES	NO	db	db	49.292
11	123478-HxCDF	34.99	3.439e5	2.707e5	1.182	1.27	1.24	1578.6	YES	NO	bd	bd	49.384
12	123468-HxCDF	33.34	3.538e5	2.768e5	1.197	1.28	1.24	1531.9	YES	NO	bb	bd	50.000
13	123789-HxCDF	37.01	3.044e5	2.379e5	1.187	1.28	1.24	1354.6	YES	NO	bb	bd	49.842
14	234678-HxCDF	35.99	3.473e5	2.734e5	1.229	1.27	1.24	1554.3	YES	NO	bd	bd	50.511
15	1234789-HpCDF	41.10	2.575e5	2.639e5	1.165	0.98	1.05	1546.5	YES	NO	bb	bb	48.293
16	Total-heptafurans	39.51	1.970e3	1.765e3	1.185	1.12	1.05	11.2	YES	NO	bb	bb	0.323
17	1234678-HpCDF	38.85	2.941e5	2.898e5	1.204	1.01	1.05	1976.6	YES	NO	bb	bb	47.249
18	OCDF	45.36	3.904e5	4.394e5	1.186	0.89	0.89	2021.3	YES	NO	bb	bb	88.323
19	13468-PECDF	27.24	4.504e5	2.910e5	1.013	1.55	1.55	7076.3	YES	NO	bb	bb	50.000

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	4.896e4	6.184e4	0.975	0.79	0.77	586.4	YES	NO	bb	bb	10.000
2	2378-TCDD	26.53	5.783e4	7.140e4	1.236	0.81	0.77	690.6	YES	NO	bb	bb	9.200
3	Total-tetradoxins	26.20	8.471e4	1.070e5	1.099	0.79	0.77	703.2	YES	NO	bb	bb	15.362
4	Total-tetradoxins	25.72	2.731e4	3.262e4	1.099	0.84	0.77	331.8	YES	NO	bd	bb	4.800
5	Total-tetradoxins	25.14	7.197e2	8.821e2	1.099	0.82	0.77	7.0	YES	NO	bb	bb	0.128
6	1368-TCDD	23.66	5.365e4	6.956e4	1.084	0.77	0.77	680.3	YES	NO	bb	bb	10.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk****PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	3.312e5	2.102e5	1.252	1.58	1.55	2720.3	YES	NO	bb	bb	50.000
2	12378-PeCDD	31.64	2.871e5	1.811e5	1.087	1.59	1.55	2335.1	YES	NO	bb	bb	49.835
3	Total-pentadioxins	30.97	1.319e3	9.625e2	1.392	1.37	1.55	9.7	YES	NO	bb	bb	0.190
4	Total-pentadioxins	29.24	2.122e2	1.231e2	1.392	1.72	1.55	2.9	NO	NO	bb	bb	0.028
5	12479-PECDD	28.91	4.860e5	3.082e5	1.837	1.58	1.55	2418.8	YES	NO	bb	bb	50.000

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	34.10	2.650e5	2.155e5	1.033	1.23	1.24	1521.7	YES	NO	bb	bb	50.000
2	123789-HxCDD	36.61	2.521e5	2.108e5	0.985	1.20	1.24	1500.2	YES	NO	bb	bb	49.951
3	123678-HxCDD	36.22	2.605e5	2.153e5	1.021	1.21	1.24	1550.9	YES	NO	db	db	49.052
4	123478-HxCDD	36.11	2.492e5	2.039e5	0.987	1.22	1.24	1555.2	YES	NO	bd	bd	49.339

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	2.309e5	2.219e5	1.253	1.04	1.05	1399.4	YES	NO	bb	bb	46.332
2	1234679-HPCDD	39.31	2.579e5	2.438e5	1.286	1.06	1.05	1669.1	YES	NO	bb	bb	50.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	4.896e4	6.184e4	0.975	0.79	0.77	586.4	YES	NO	bb	bb	10.000
2	2378-TCDD	26.53	5.783e4	7.140e4	1.236	0.81	0.77	690.6	YES	NO	bb	bb	9.200
3	Total-tetradoxins	26.20	8.471e4	1.070e5	1.099	0.79	0.77	703.2	YES	NO	bb	bb	15.362
4	Total-tetradoxins	25.72	2.731e4	3.262e4	1.099	0.84	0.77	331.8	YES	NO	bd	bb	4.800
5	Total-tetradoxins	25.14	7.197e2	8.821e2	1.099	0.82	0.77	7.0	YES	NO	bb	bb	0.128
6	1368-TCDD	23.66	5.365e4	6.956e4	1.084	0.77	0.77	680.3	YES	NO	bb	bb	10.000
7	12389-PECDD	32.03	3.312e5	2.102e5	1.252	1.58	1.55	2720.3	YES	NO	bb	bb	50.000
8	12378-PeCDD	31.64	2.871e5	1.811e5	1.087	1.59	1.55	2335.1	YES	NO	bb	bb	49.835
9	Total-pentadoxins	30.97	1.319e3	9.625e2	1.392	1.37	1.55	9.7	YES	NO	bb	bb	0.190
10	Total-pentadoxins	29.24	2.122e2	1.231e2	1.392	1.72	1.55	2.9	NO	NO	bb	bb	0.028
11	12479-PECDD	28.91	4.860e5	3.082e5	1.837	1.58	1.55	2418.8	YES	NO	bb	bb	50.000
12	124679-HxCDD	34.10	2.650e5	2.155e5	1.033	1.23	1.24	1521.7	YES	NO	bb	bb	50.000
13	123789-HxCDD	36.61	2.521e5	2.108e5	0.985	1.20	1.24	1500.2	YES	NO	bb	bb	49.951
14	123678-HxCDD	36.22	2.605e5	2.153e5	1.021	1.21	1.24	1550.9	YES	NO	db	db	49.052
15	123478-HxCDD	36.11	2.492e5	2.039e5	0.987	1.22	1.24	1555.2	YES	NO	bd	bd	49.339
16	1234678-HpCDD	40.35	2.309e5	2.219e5	1.253	1.04	1.05	1399.4	YES	NO	bb	bb	46.332
17	1234679-HPCDD	39.31	2.579e5	2.438e5	1.286	1.06	1.05	1669.1	YES	NO	bb	bb	50.000
18	OCDD	45.12	3.877e5	4.205e5	1.103	0.92	0.89	2156.8	YES	NO	bd	bb	92.549

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.314e4	8.075e4	0.858	0.78	0.77	825.1	YES	NO	db	db	10.000
2	Total-tetrafurans	27.24	1.177e3	1.490e3	0.933	0.79	0.77	17.2	YES	NO	bd	bd	0.170
3	2378-TCDF	25.88	6.453e4	8.749e4	0.876	0.74	0.77	897.2	YES	NO	bb	bb	10.343
4	Total-tetrafurans	24.81	4.913e2	6.353e2	0.933	0.77	0.77	7.1	YES	NO	dd	db	0.072
5	1368-TCDF	22.39	7.831e4	1.003e5	1.064	0.78	0.77	1124.6	YES	NO	bb	bb	10.000
6	12389-PECDF	32.42	3.693e5	2.481e5	0.844	1.49	1.55	1765.9	YES	NO	bb	bb	50.000
7	23478-PeCDF	31.39	3.878e5	2.552e5	0.911	1.52	1.55	1875.0	YES	NO	bb	bb	49.735
8	12378-PeCDF	30.05	3.683e5	2.382e5	0.845	1.55	1.55	1785.6	YES	NO	bb	bb	49.054
9	Total-pentafurans	28.90	6.175e4	3.932e4	0.866	1.57	1.55	301.5	YES	NO	bb	bb	8.093
10	123678-HxCDF	35.13	3.705e5	2.941e5	1.248	1.26	1.24	1557.7	YES	NO	db	db	49.292
11	123478-HxCDF	34.99	3.439e5	2.707e5	1.182	1.27	1.24	1578.6	YES	NO	bd	bd	49.384
12	123468-HxCDF	33.34	3.538e5	2.768e5	1.197	1.28	1.24	1531.9	YES	NO	bb	bd	50.000
13	123789-HxCDF	37.01	3.044e5	2.379e5	1.187	1.28	1.24	1354.6	YES	NO	bb	bd	49.842
14	234678-HxCDF	35.99	3.473e5	2.734e5	1.229	1.27	1.24	1554.3	YES	NO	bd	bd	50.511
15	1234789-HpCDF	41.10	2.575e5	2.639e5	1.165	0.98	1.05	1546.5	YES	NO	bb	bb	48.293
16	Total-heptafurans	39.51	1.970e3	1.765e3	1.185	1.12	1.05	11.2	YES	NO	bb	bb	0.323
17	1234678-HpCDF	38.85	2.941e5	2.898e5	1.204	1.01	1.05	1976.6	YES	NO	bb	bb	47.249
18	OCDF	45.36	3.904e5	4.394e5	1.186	0.89	0.89	2021.3	YES	NO	bb	bb	88.323
19	13468-PECDF	27.24	4.504e5	2.910e5	1.013	1.55	1.55	7076.3	YES	NO	bb	bb	50.000
20	1289-TCDD	27.12	4.896e4	6.184e4	0.975	0.79	0.77	586.4	YES	NO	bb	bb	10.000
21	2378-TCDD	26.53	5.783e4	7.140e4	1.236	0.81	0.77	690.6	YES	NO	bb	bb	9.200
22	Total-tetradioxins	26.20	8.471e4	1.070e5	1.099	0.79	0.77	703.2	YES	NO	bb	bb	15.362
23	Total-tetradioxins	25.72	2.731e4	3.262e4	1.099	0.84	0.77	331.8	YES	NO	bd	bb	4.800
24	Total-tetradioxins	25.14	7.197e2	8.821e2	1.099	0.82	0.77	7.0	YES	NO	bb	bb	0.128
25	1368-TCDD	23.66	5.365e4	6.956e4	1.084	0.77	0.77	680.3	YES	NO	bb	bb	10.000
26	12389-PECDD	32.03	3.312e5	2.102e5	1.252	1.58	1.55	2720.3	YES	NO	bb	bb	50.000
27	12378-PeCDD	31.64	2.871e5	1.811e5	1.087	1.59	1.55	2335.1	YES	NO	bb	bb	49.835
28	Total-pentadioxins	30.97	1.319e3	9.625e2	1.392	1.37	1.55	9.7	YES	NO	bb	bb	0.190
29	Total-pentadioxins	29.24	2.122e2	1.231e2	1.392	1.72	1.55	2.9	NO	NO	bb	bb	0.028
30	12479-PECDD	28.91	4.860e5	3.082e5	1.837	1.58	1.55	2418.8	YES	NO	bb	bb	50.000
31	124679-HXCDD	34.10	2.650e5	2.155e5	1.033	1.23	1.24	1521.7	YES	NO	bb	bb	50.000
32	123789-HxCDD	36.61	2.521e5	2.108e5	0.985	1.20	1.24	1500.2	YES	NO	bb	bb	49.951
33	123678-HxCDD	36.22	2.605e5	2.153e5	1.021	1.21	1.24	1550.9	YES	NO	db	db	49.052
34	123478-HxCDD	36.11	2.492e5	2.039e5	0.987	1.22	1.24	1555.2	YES	NO	bd	bd	49.339
35	1234678-HpCDD	40.35	2.309e5	2.219e5	1.253	1.04	1.05	1399.4	YES	NO	bb	bb	46.332
36	1234679-HPCDD	39.31	2.579e5	2.438e5	1.286	1.06	1.05	1669.1	YES	NO	bb	bb	50.000
37	OCDD	45.12	3.877e5	4.205e5	1.103	0.92	0.89	2156.8	YES	NO	bd	bb	92.549



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:38 Pacific Standard Time

**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.91	6.852e5					20.8	YES		dd		
2	FUNCTION1 PFK	21.84	1.096e6					22.0	YES		dd		
3	FUNCTION1 PFK	21.77	5.746e5					22.9	YES		dd		
4	FUNCTION1 PFK	21.71	1.001e6					23.9	YES		dd		
5	FUNCTION1 PFK	21.59	1.735e6					26.6	YES		dd		
6	FUNCTION1 PFK	21.47	1.869e6					28.4	YES		dd		
7	FUNCTION1 PFK	21.35	2.030e6					30.8	YES		dd		
8	FUNCTION1 PFK	21.25	1.366e6					32.7	YES		dd		
9	FUNCTION1 PFK	21.13	3.514e6					34.9	YES		bd		
10	FUNCTION1 PFK	23.42	1.745e4					0.9	NO		db		
11	FUNCTION1 PFK	23.36	2.629e4					1.1	NO		dd		
12	FUNCTION1 PFK	23.30	5.605e4					1.4	NO		bd		
13	FUNCTION1 PFK	23.16	2.732e4					0.9	NO		bb		
14	FUNCTION1 PFK	22.89	1.080e5					3.0	YES		db		
15	FUNCTION1 PFK	22.81	1.442e5					3.9	YES		dd		
16	FUNCTION1 PFK	22.75	1.516e5					4.8	YES		dd		
17	FUNCTION1 PFK	22.69	1.790e5					5.6	YES		dd		
18	FUNCTION1 PFK	22.56	6.347e5					8.4	YES		dd		
19	FUNCTION1 PFK	22.42	5.662e5					10.5	YES		dd		
20	FUNCTION1 PFK	22.36	4.892e5					12.2	YES		dd		
21	FUNCTION1 PFK	22.30	4.241e5					12.7	YES		dd		
22	FUNCTION1 PFK	22.18	1.005e6					15.7	YES		dd		
23	FUNCTION1 PFK	22.10	6.911e5					16.7	YES		dd		
24	FUNCTION1 PFK	22.04	6.019e5					18.1	YES		dd		
25	FUNCTION1 PFK	21.98	6.245e5					18.6	YES		dd		
26	FUNCTION1 PFK	25.17	1.799e4					0.9	NO		bb		
27	FUNCTION1 PFK	25.05	6.677e4					1.7	NO		bb		
28	FUNCTION1 PFK	24.97	5.669e3					0.4	NO		db		
29	FUNCTION1 PFK	24.93	2.665e4					1.1	NO		bd		
30	FUNCTION1 PFK	24.79	9.106e3					0.5	NO		bb		
31	FUNCTION1 PFK	24.70	2.803e4					1.0	NO		bb		
32	FUNCTION1 PFK	24.60	2.266e4					1.1	NO		bb		
33	FUNCTION1 PFK	24.51	2.481e3					0.3	NO		bb		
34	FUNCTION1 PFK	24.26	2.953e3					0.3	NO		bb		
35	FUNCTION1 PFK	24.07	3.464e4					0.9	NO		db		
36	FUNCTION1 PFK	23.95	2.818e4					0.8	NO		bd		
37	FUNCTION1 PFK	23.86	1.761e4					1.0	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	23.80	2.745e4					1.4	NO		db		
39	FUNCTION1 PFK	23.75	2.279e4					1.2	NO		bd		
40	FUNCTION1 PFK	23.57	1.177e3					0.1	NO		bb		
41	FUNCTION1 PFK	23.51	3.339e4					1.1	NO		bb		
42	FUNCTION1 PFK	26.92	1.624e4					0.8	NO		bd		
43	FUNCTION1 PFK	26.85	6.743e4					2.0	NO		db		
44	FUNCTION1 PFK	26.77	3.605e4					1.4	NO		dd		
45	FUNCTION1 PFK	26.71	5.041e4					1.7	NO		dd		
46	FUNCTION1 PFK	26.64	3.066e4					1.2	NO		dd		
47	FUNCTION1 PFK	26.58	3.222e4					1.5	NO		bd		
48	FUNCTION1 PFK	26.50	4.287e4					1.3	NO		bb		
49	FUNCTION1 PFK	26.32	9.896e3					0.6	NO		bb		
50	FUNCTION1 PFK	26.26	3.724e4					1.5	NO		bb		
51	FUNCTION1 PFK	26.18	3.323e3					0.4	NO		bb		
52	FUNCTION1 PFK	26.05	1.864e4					1.0	NO		bb		
53	FUNCTION1 PFK	25.91	1.114e4					0.6	NO		bb		
54	FUNCTION1 PFK	25.79	1.895e4					1.1	NO		db		
55	FUNCTION1 PFK	25.72	1.527e4					0.8	NO		bd		
56	FUNCTION1 PFK	25.56	6.069e4					1.2	NO		bb		
57	FUNCTION1 PFK	25.32	2.043e4					0.8	NO		bb		
58	FUNCTION1 PFK	28.10	6.905e3					0.5	NO		bb		
59	FUNCTION1 PFK	28.04	4.818e3					0.4	NO		bb		
60	FUNCTION1 PFK	27.71	1.514e4					0.8	NO		bb		
61	FUNCTION1 PFK	27.65	3.709e4					1.3	NO		db		
62	FUNCTION1 PFK	27.59	2.458e4					1.3	NO		dd		
63	FUNCTION1 PFK	27.53	4.906e4					1.8	NO		bd		
64	FUNCTION1 PFK	27.44	2.074e4					1.1	NO		db		
65	FUNCTION1 PFK	27.38	2.487e4					1.2	NO		dd		
66	FUNCTION1 PFK	27.24	6.345e4					1.2	NO		bd		
67	FUNCTION1 PFK	26.99	2.492e4					1.1	NO		db		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

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**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.79	2.481e4					1.5	NO		bb		0.000
2	FUNCTION3 PFK	33.58	3.048e3					0.6	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.11	2.881e5					5.9	YES		bd		
2	FUNCTION4 PFK	40.30	1.799e3					0.6	NO		bb		
3	FUNCTION4 PFK	40.24	8.794e3					0.9	NO		bb		
4	FUNCTION4 PFK	39.76	2.592e4					1.9	NO		bb		
5	FUNCTION4 PFK	39.53	1.727e3					0.6	NO		bb		
6	FUNCTION4 PFK	39.42	8.213e3					1.1	NO		db		
7	FUNCTION4 PFK	39.37	5.168e3					0.8	NO		bd		
8	FUNCTION4 PFK	39.28	3.722e4					2.1	NO		bb		
9	FUNCTION4 PFK	39.18	4.002e3					0.6	NO		bb		
10	FUNCTION4 PFK	39.14	3.342e3					0.8	NO		bb		
11	FUNCTION4 PFK	38.74	2.110e3					0.5	NO		bb		
12	FUNCTION4 PFK	38.66	1.735e4					1.0	NO		bb		
13	FUNCTION4 PFK	38.54	3.610e3					0.6	NO		db		
14	FUNCTION4 PFK	38.50	2.411e3					0.6	NO		bd		
15	FUNCTION4 PFK	38.43	2.873e4					2.5	NO		db		
16	FUNCTION4 PFK	38.38	2.222e4					2.3	NO		dd		
17	FUNCTION4 PFK	38.32	4.040e4					3.1	YES		dd		
18	FUNCTION4 PFK	42.54	1.660e3					0.6	NO		bb		
19	FUNCTION4 PFK	42.49	5.115e3					0.7	NO		db		
20	FUNCTION4 PFK	42.43	1.342e4					1.1	NO		dd		
21	FUNCTION4 PFK	42.39	8.107e3					1.2	NO		dd		
22	FUNCTION4 PFK	42.35	1.540e4					1.7	NO		bd		
23	FUNCTION4 PFK	42.28	2.692e4					2.0	NO		bb		
24	FUNCTION4 PFK	41.95	3.858e3					0.8	NO		bb		
25	FUNCTION4 PFK	41.80	3.979e4					2.0	NO		db		
26	FUNCTION4 PFK	41.65	1.699e4					1.5	NO		bd		
27	FUNCTION4 PFK	41.55	1.804e4					1.5	NO		db		
28	FUNCTION4 PFK	41.49	1.585e4					1.6	NO		dd		
29	FUNCTION4 PFK	41.42	1.775e4					1.4	NO		dd		
30	FUNCTION4 PFK	41.29	3.051e4					1.6	NO		bd		
31	FUNCTION4 PFK	41.07	3.910e3					0.8	NO		bb		
32	FUNCTION4 PFK	40.83	2.327e4					1.7	NO		bb		
33	FUNCTION4 PFK	40.44	5.321e3					0.8	NO		bb		
34	FUNCTION4 PFK	42.75	1.970e3					0.4	NO		bb		
35	FUNCTION4 PFK	42.66	4.393e3					0.6	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

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**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk****PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.93	2.684e3					0.8	NO		bb		
2	FUNCTION5 PFK	44.87	6.256e3					1.5	NO		bb		
3	FUNCTION5 PFK	44.78	1.077e4					1.6	NO		bb		
4	FUNCTION5 PFK	44.72	7.200e2					0.5	NO		bb		
5	FUNCTION5 PFK	44.65	1.235e3					0.8	NO		bb		
6	FUNCTION5 PFK	44.28	7.736e2					0.5	NO		bb		
7	FUNCTION5 PFK	44.24	1.418e3					0.7	NO		db		
8	FUNCTION5 PFK	44.21	4.442e3					1.2	NO		bd		
9	FUNCTION5 PFK	44.18	5.811e3					0.9	NO		bb		
10	FUNCTION5 PFK	43.82	5.499e3					1.3	NO		bb		
11	FUNCTION5 PFK	43.56	1.617e4					1.7	NO		bb		
12	FUNCTION5 PFK	43.36	1.625e3					0.7	NO		bb		
13	FUNCTION5 PFK	43.23	2.679e3					0.9	NO		bb		
14	FUNCTION5 PFK	46.45	4.419e3					1.2	NO		bb		
15	FUNCTION5 PFK	46.36	5.978e3					1.0	NO		bb		
16	FUNCTION5 PFK	46.26	2.259e3					0.8	NO		bb		
17	FUNCTION5 PFK	46.07	3.509e3					1.0	NO		bb		
18	FUNCTION5 PFK	45.84	4.173e3					1.3	NO		bb		
19	FUNCTION5 PFK	45.76	6.984e2					0.4	NO		bb		
20	FUNCTION5 PFK	45.72	1.077e3					0.7	NO		bb		
21	FUNCTION5 PFK	45.60	7.851e2					0.5	NO		bb		
22	FUNCTION5 PFK	45.54	4.517e3					1.2	NO		db		
23	FUNCTION5 PFK	45.49	1.078e4					1.5	NO		dd		
24	FUNCTION5 PFK	45.41	6.756e3					1.7	NO		dd		
25	FUNCTION5 PFK	45.38	1.279e4					2.2	NO		bd		
26	FUNCTION5 PFK	45.28	8.503e2					0.4	NO		bb		
27	FUNCTION5 PFK	45.04	4.420e3					1.2	NO		bb		
28	FUNCTION5 PFK	44.98	7.643e2					0.5	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
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**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk**

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.82	2.306e2					4.0	YES		db		0.000
2	FUNCTION1 HXCD...	27.74	8.055e1					1.8	NO		bd		0.000
3	FUNCTION1 HXCD...	27.59	1.178e2					2.5	NO		bb		0.000
4	FUNCTION1 HXCD...	27.21	1.030e2					1.7	NO		bb		0.000
5	FUNCTION1 HXCD...	27.02	8.155e1					1.5	NO		db		0.000
6	FUNCTION1 HXCD...	26.85	8.440e1					2.6	NO		bd		0.000
7	FUNCTION1 HXCD...	26.52	1.203e2					2.7	NO		bb		0.000
8	FUNCTION1 HXCD...	25.93	1.681e2					3.0	YES		bb		0.000
9	FUNCTION1 HXCD...	24.22	7.069e1					2.3	NO		bb		0.000
10	FUNCTION1 HXCD...	23.52	8.011e1					1.5	NO		bb		0.000
11	FUNCTION1 HXCD...	21.12	9.981e1					1.8	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	23.48	8.076e1					2.6	NO		bb		0.000
2	FUNCTION1 HPCD...	21.66	8.657e1					2.4	NO		bb		0.000
3	FUNCTION1 HPCD...	21.27	8.855e1					2.3	NO		db		0.000
4	FUNCTION1 HPCD...	21.16	2.367e2					2.7	NO		bd		0.000
5	FUNCTION1 HPCD...	27.79	1.270e2					2.7	NO		bb		0.000
6	FUNCTION1 HPCD...	26.52	1.210e2					2.0	NO		bb		0.000
7	FUNCTION1 HPCD...	25.97	9.169e1					1.5	NO		db		0.000
8	FUNCTION1 HPCD...	25.88	1.471e2					2.3	NO		dd		0.000
9	FUNCTION1 HPCD...	25.73	1.363e2					1.9	NO		bd		0.000
10	FUNCTION1 HPCD...	24.82	1.792e2					1.5	NO		db		0.000
11	FUNCTION1 HPCD...	24.63	7.297e1					1.7	NO		bd		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.64	8.233e1					2.0	NO		bb		0.000
2	FUNCTION2 HPCD...	31.26	3.994e2					8.3	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.42	1.052e2					1.7	NO		bb		0.000
2	FUNCTION3 OCDPE	36.19	9.953e1					2.2	NO		bb		0.000
3	FUNCTION3 OCDPE	34.50	7.262e1					2.2	NO		bb		0.000
4	FUNCTION3 OCDPE	33.58	9.379e1					1.9	NO		bb		0.000
5	FUNCTION3 OCDPE	33.20	7.737e1					3.3	YES		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.82	9.720e1					2.9	NO		bb		0.000
2	FUNCTION4 NCDPE	42.34	7.165e1					2.1	NO		bb		0.000
3	FUNCTION4 NCDPE	40.58	7.068e1					1.3	NO		bb		0.000
4	FUNCTION4 NCDPE	40.40	1.414e2					1.7	NO		bb		0.000

**ETHERS6**

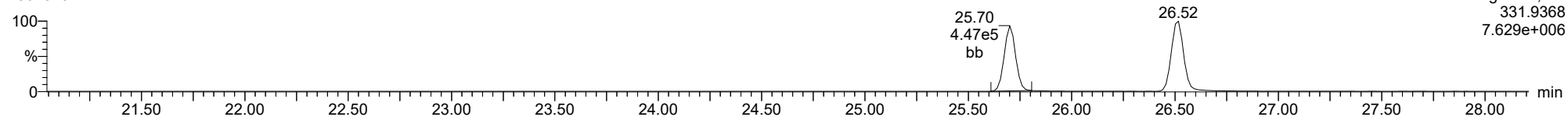
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1													

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: 03 Feb 2023 10:33:40**

**ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk**

**13C-1234-TCDD**

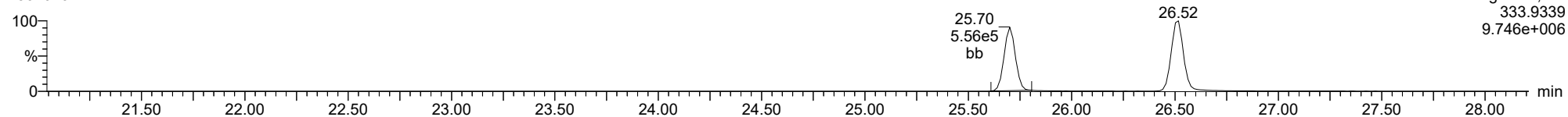
23020107



F1:Voltage SIR,EI+  
331.9368  
7.629e+006

**13C-1234-TCDD**

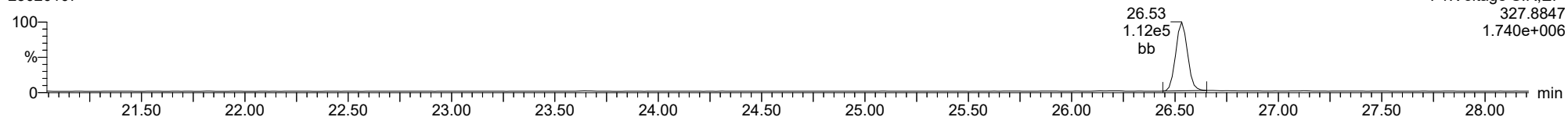
23020107



F1:Voltage SIR,EI+  
333.9339  
9.746e+006

**37CL-2378-TCDD**

23020107



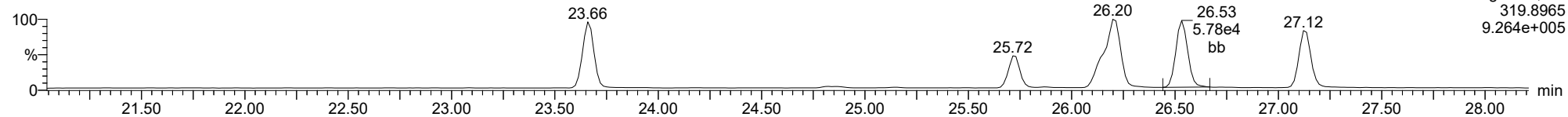
F1:Voltage SIR,EI+  
327.8847  
1.740e+006



ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

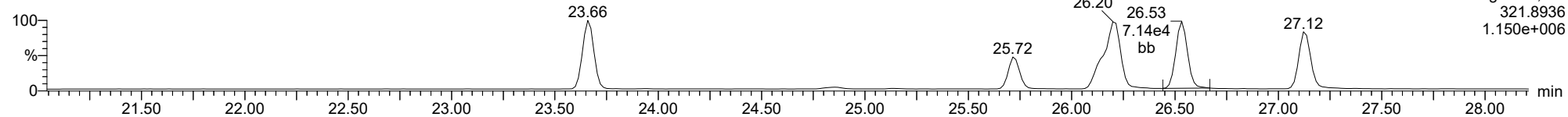
23020107



F1:Voltage SIR,EI+  
319.8965  
9.264e+005

**2378-TCDD**

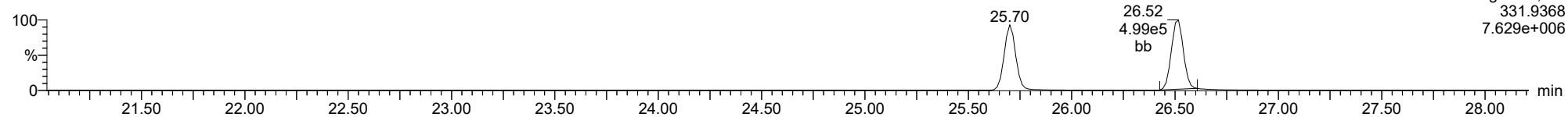
23020107



F1:Voltage SIR,EI+  
321.8936  
1.150e+006

**13C-2378-TCDD**

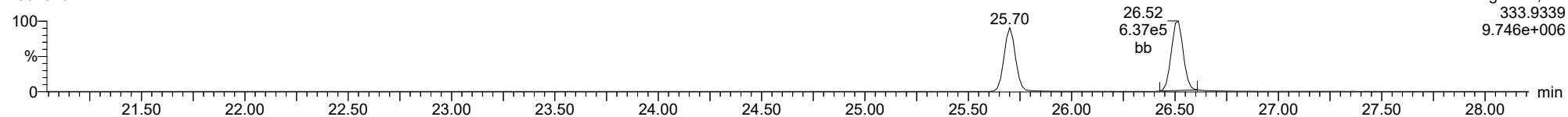
23020107



F1:Voltage SIR,EI+  
331.9368  
7.629e+006

**13C-2378-TCDD**

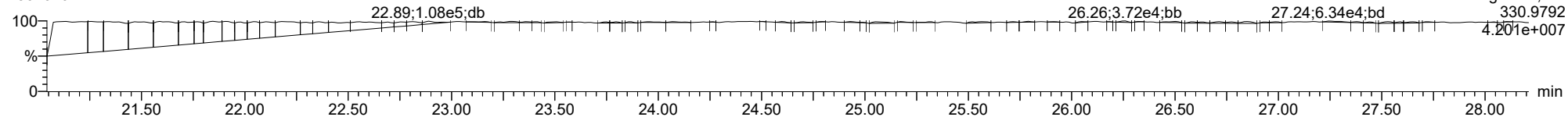
23020107



F1:Voltage SIR,EI+  
333.9339  
9.746e+006

**FUNCTION1 PFK**

23020107

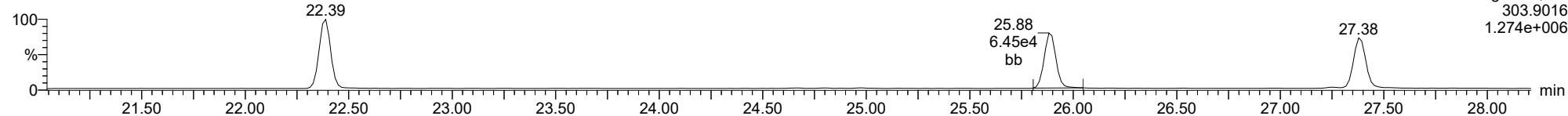


F1:Voltage SIR,EI+  
330.9792  
4.201e+007

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

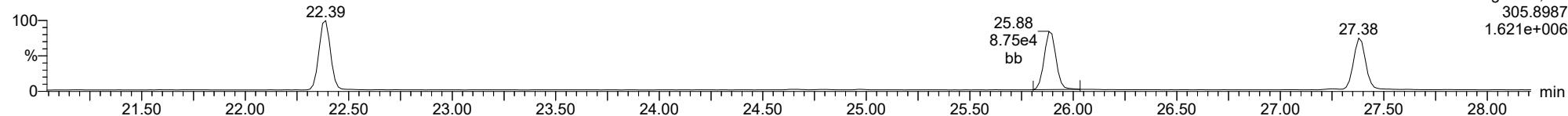
**2378-TCDF**

23020107



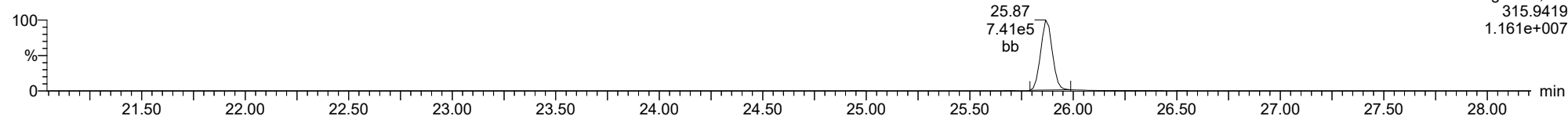
**2378-TCDF**

23020107



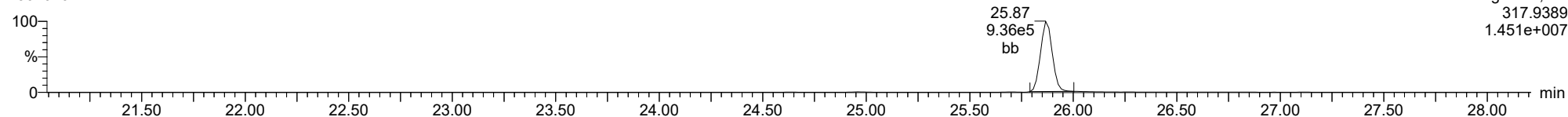
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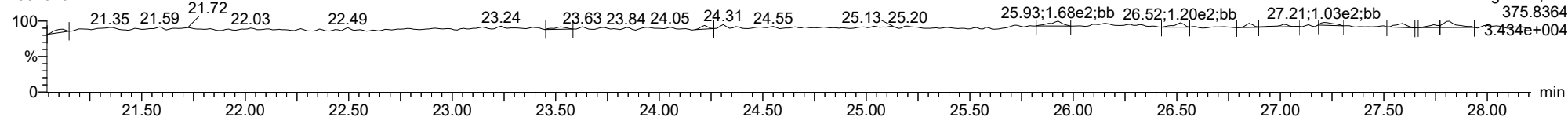
**13C-2378-TCDF**

23020107



**FUNCTION1 HXCDPE**

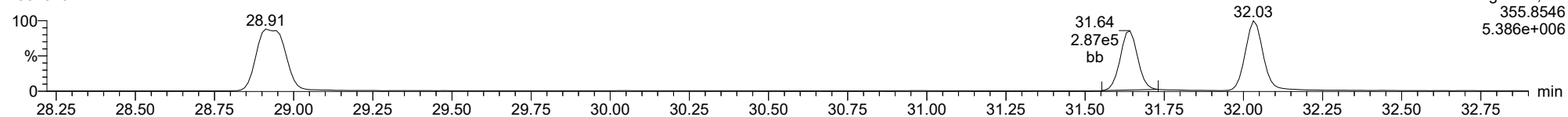
23020107



ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

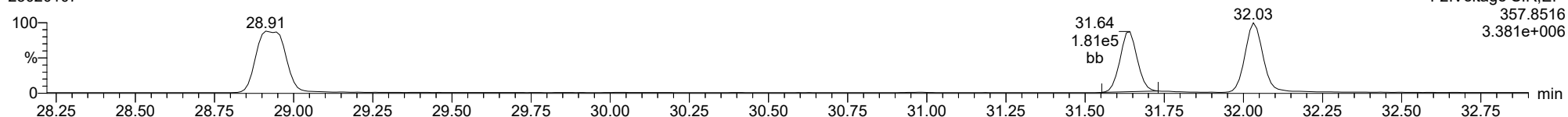
23020107



F2:Voltage SIR,EI+  
355.8546  
5.386e+006

**12378-PeCDD**

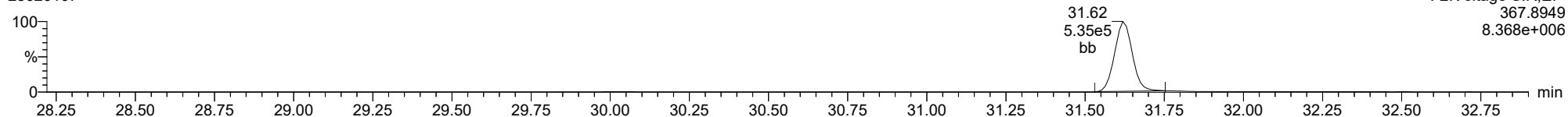
23020107



F2:Voltage SIR,EI+  
357.8516  
3.381e+006

**13C-12378-PeCDD**

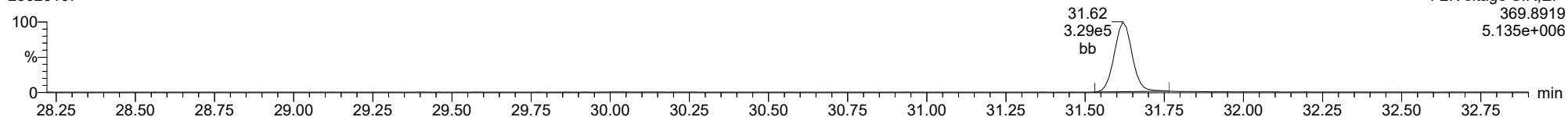
23020107



F2:Voltage SIR,EI+  
367.8949  
8.368e+006

**13C-12378-PeCDD**

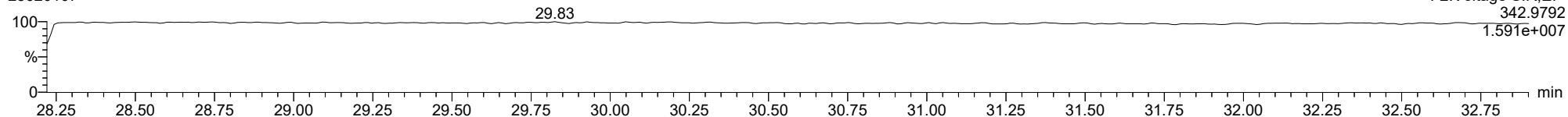
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F2:Voltage SIR,EI+  
369.8919  
5.135e+006

**FUNCTION2 PFK**

23020107

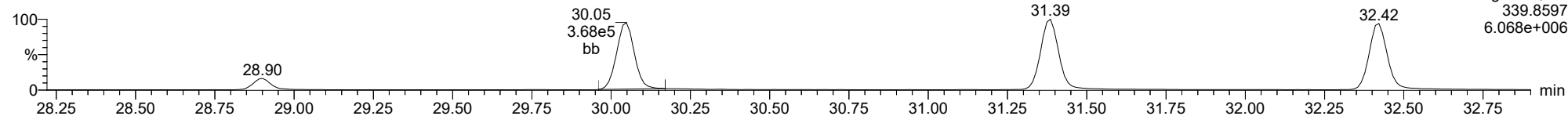


F2:Voltage SIR,EI+  
342.9792  
1.591e+007

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

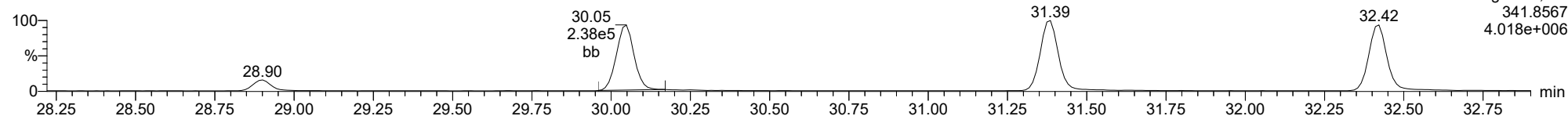
**12378-PeCDF**

23020107



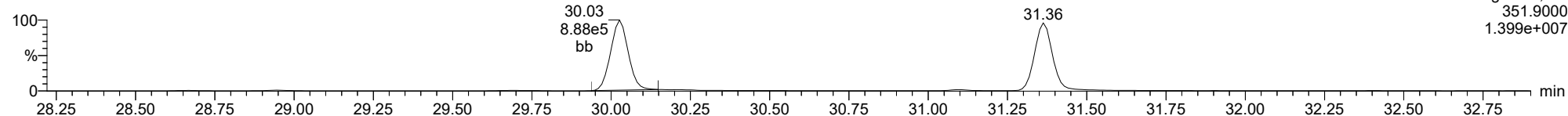
**12378-PeCDF**

23020107



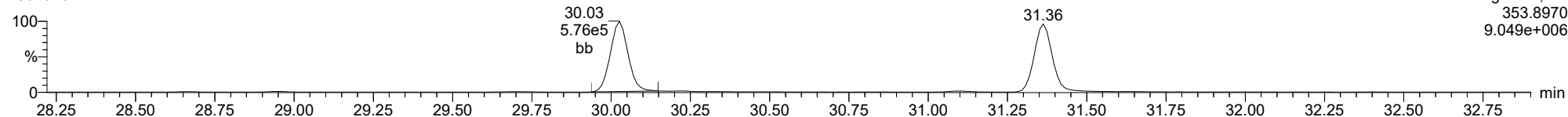
**13C-12378-PeCDF**

23020107



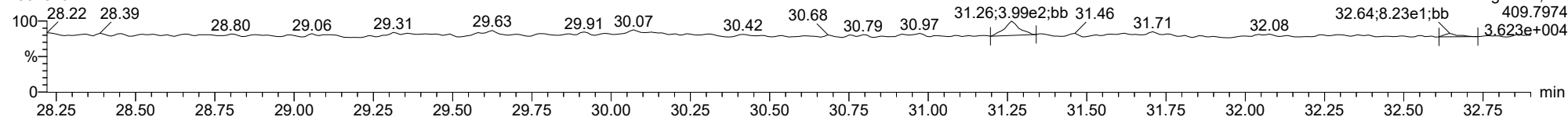
**13C-12378-PeCDF**

23020107



**FUNCTION2 HPCDPE**

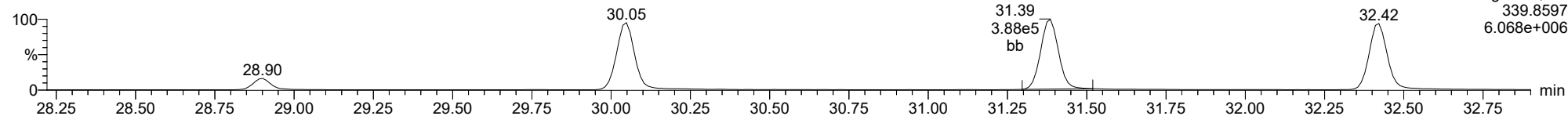
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

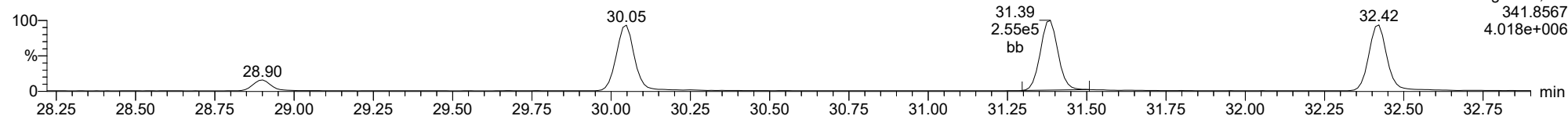
**23478-PeCDF**

23020107



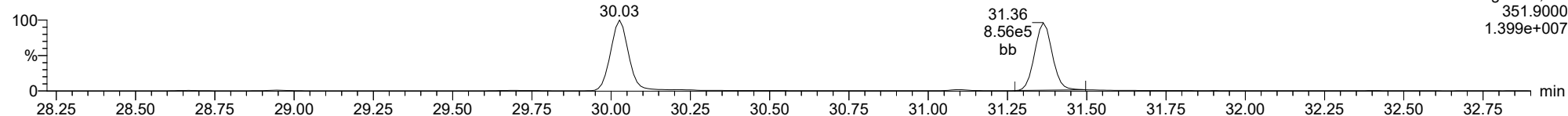
**23478-PeCDF**

23020107



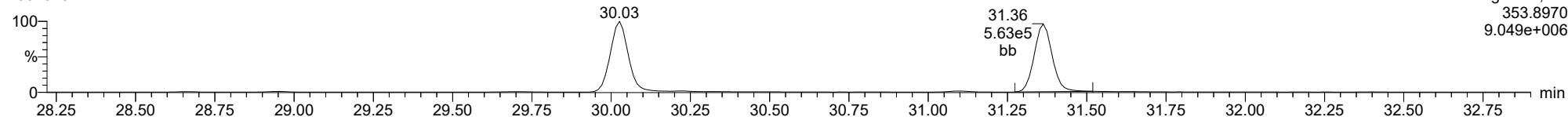
**13C-23478-PeCDF**

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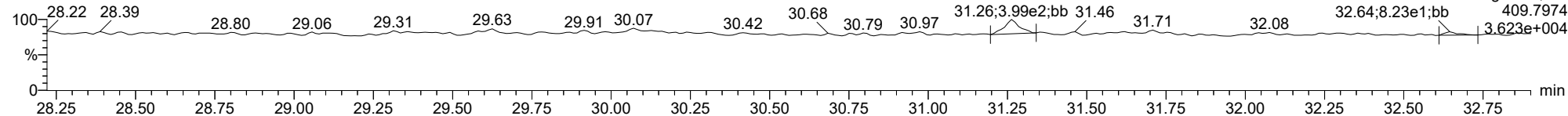
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**FUNCTION2 HPCDPE**

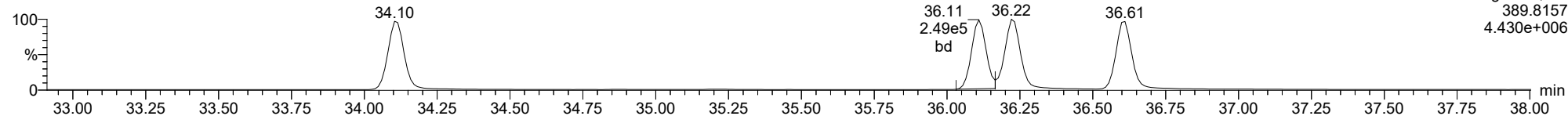
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

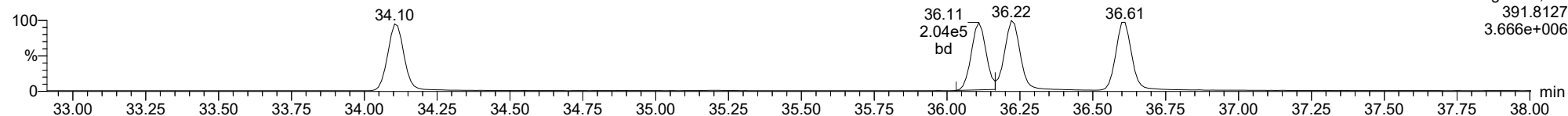
**123478-HxCDD**

23020107



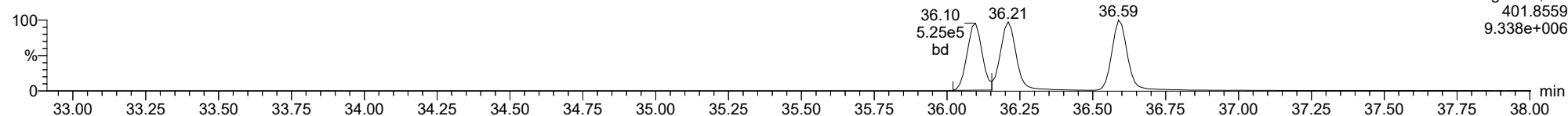
**123478-HxCDD**

23020107



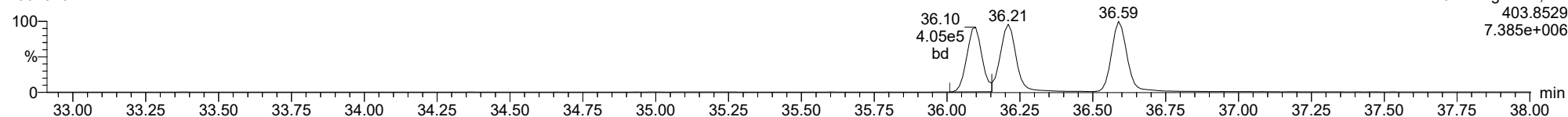
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23020107



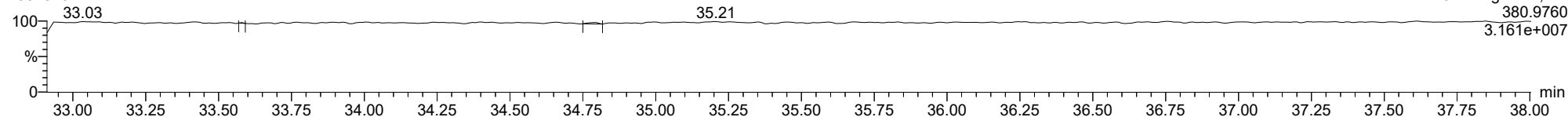
**13C-123478-HxCDD**

23020107



**FUNCTION3 PFK**

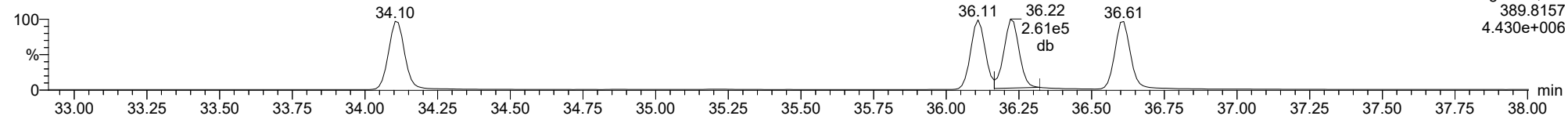
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

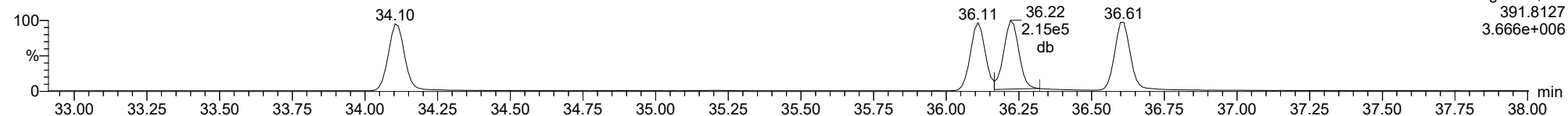
**123678-HxCDD**

23020107



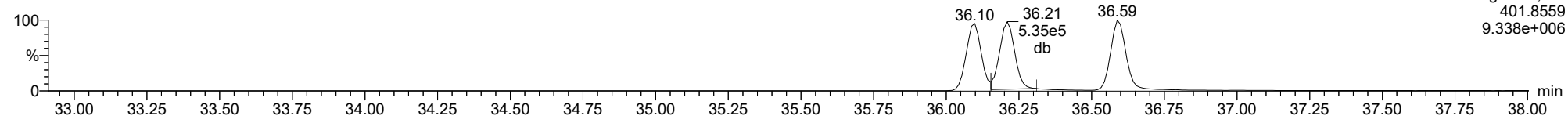
**123678-HxCDD**

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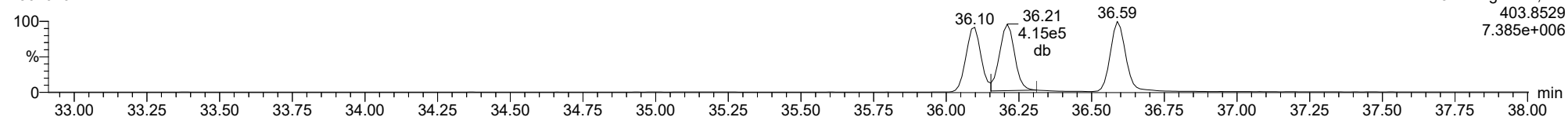
**13C-123678-HxCDD**

23020107



**13C-123678-HxCDD**

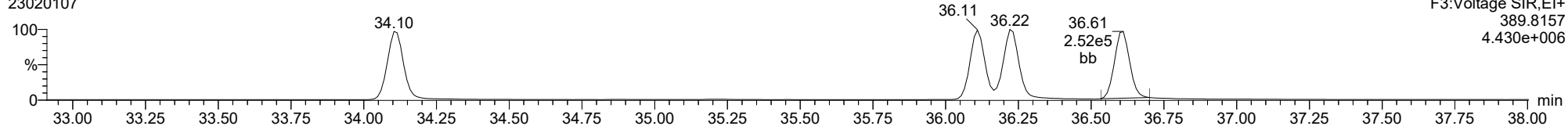
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

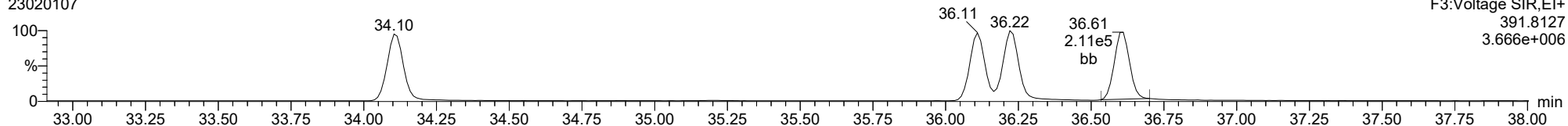
**123789-HxCDD**

23020107



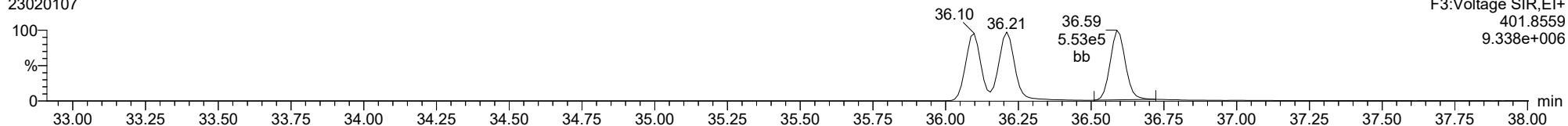
**123789-HxCDD**

23020107



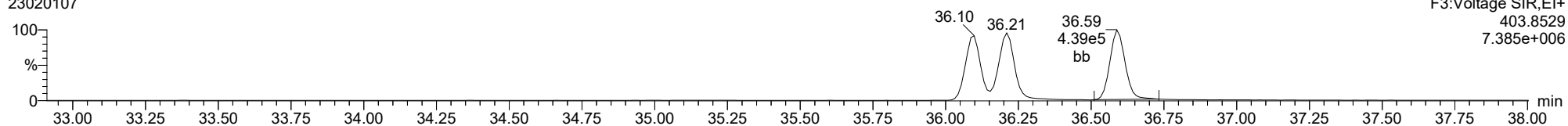
**13C-123789-HxCDD**

23020107



**13C-123789-HxCDD**

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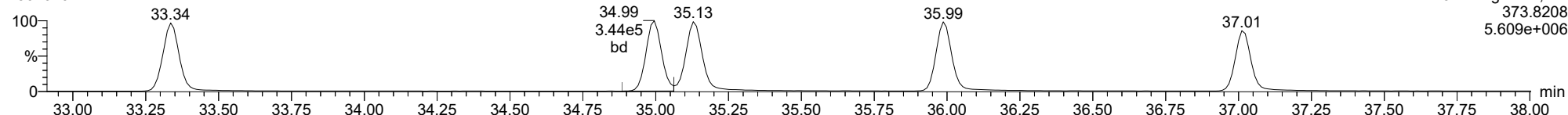




ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

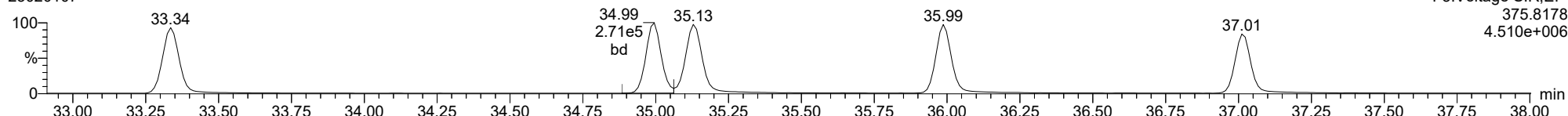
**123478-HxCDF**

23020107



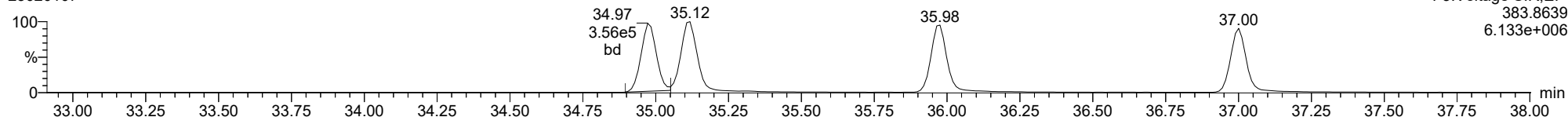
**123478-HxCDF**

23020107



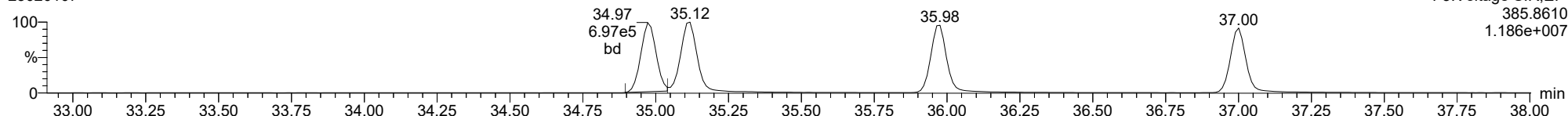
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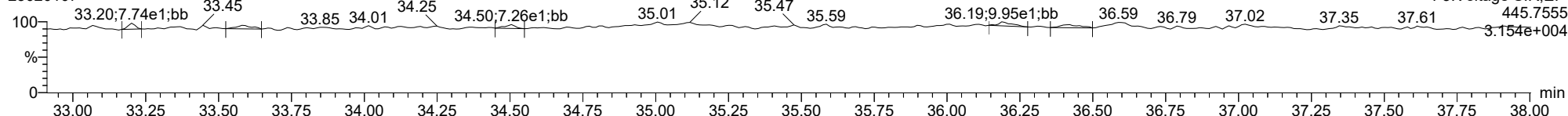
**13C-123478-HxCDF**

23020107



**FUNCTION3 OCDPE**

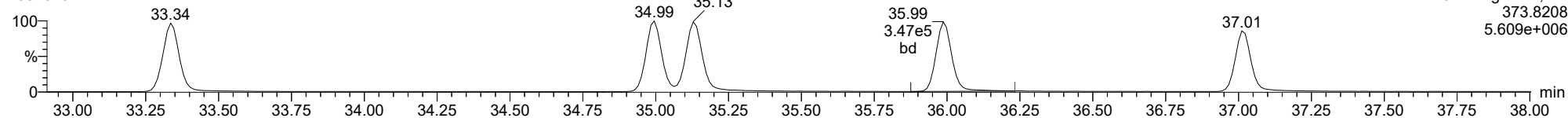
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

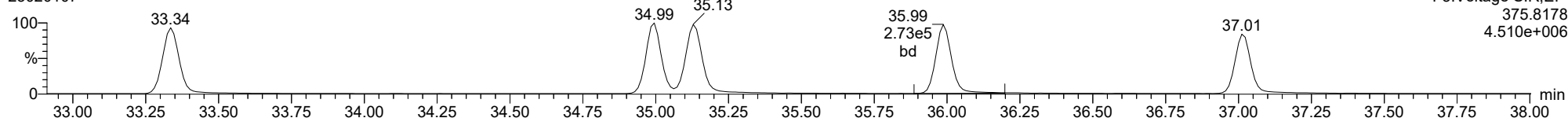
**234678-HxCDF**

23020107



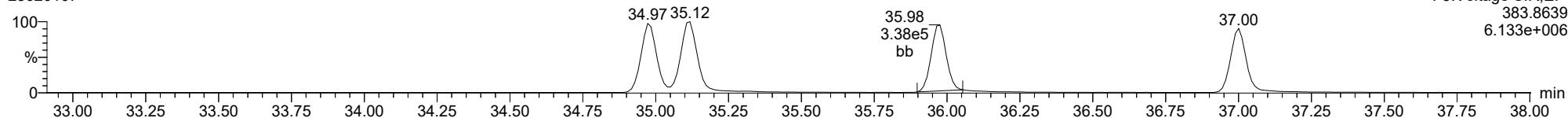
**234678-HxCDF**

23020107



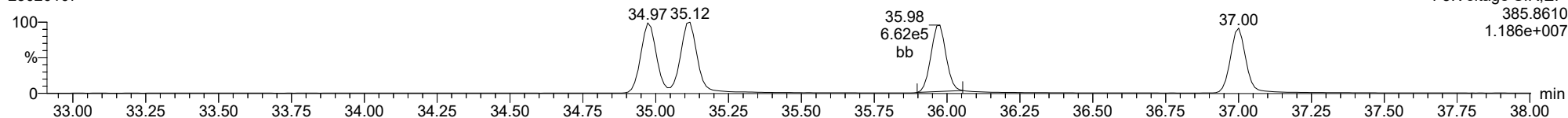
**13C-234678-HxCDF**

23020107



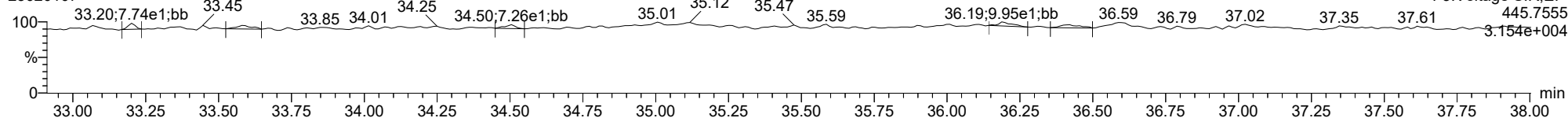
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23020107



**FUNCTION3 OCDPE**

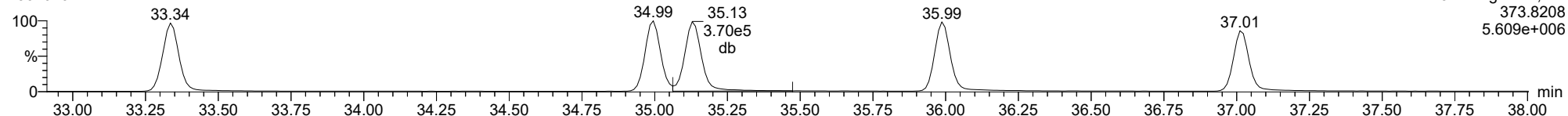
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

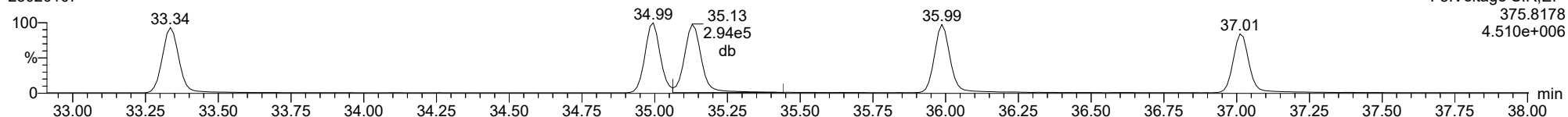
**123678-HxCDF**

23020107



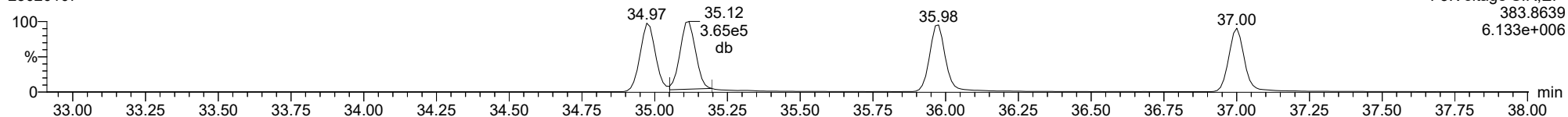
**123678-HxCDF**

23020107



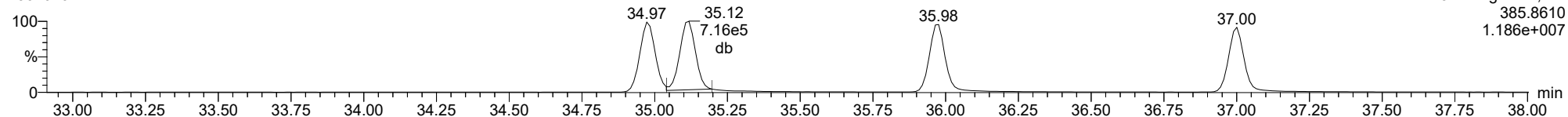
**13C-123678-HxCDF**

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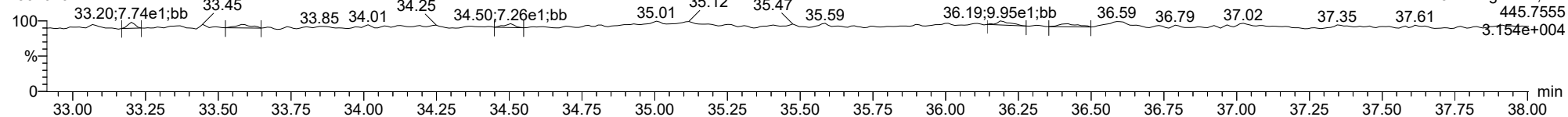
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**FUNCTION3 OCDPE**

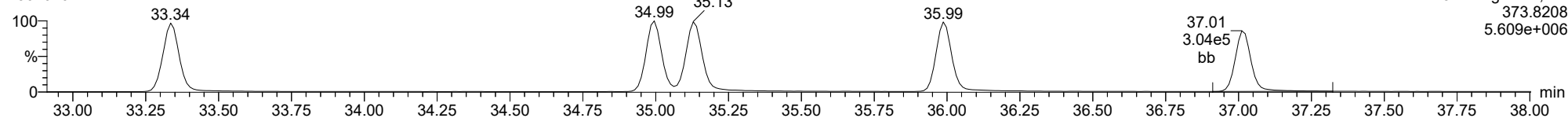
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

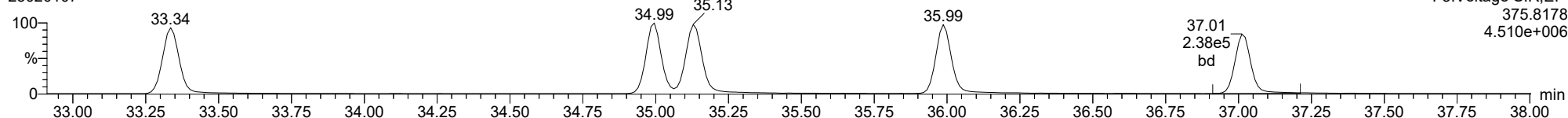
**123789-HxCDF**

23020107



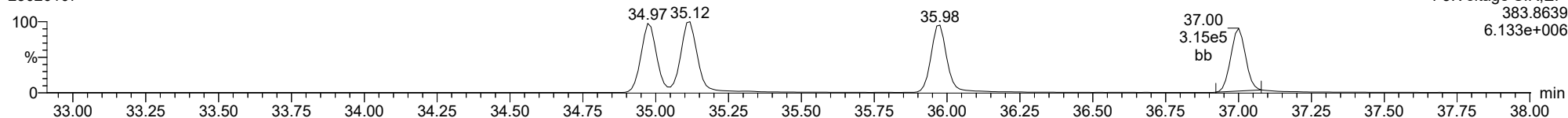
**123789-HxCDF**

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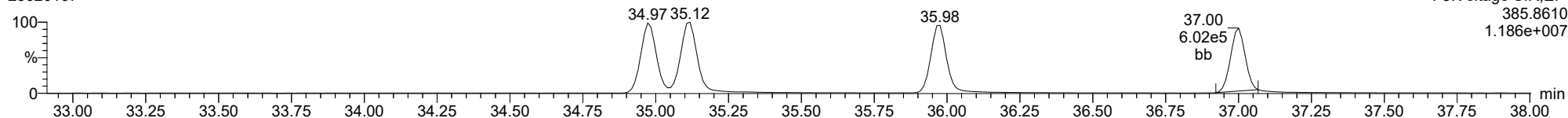
**13C-123789-HxCDF**

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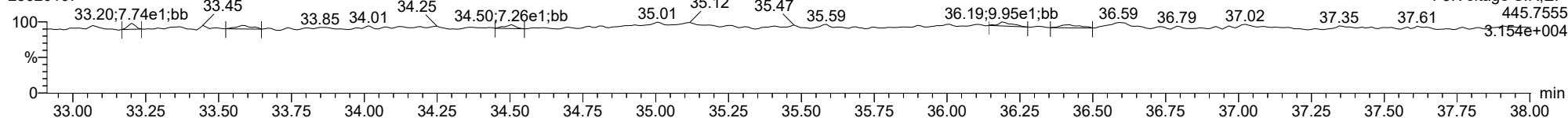
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23020107



**FUNCTION3 OCDPE**

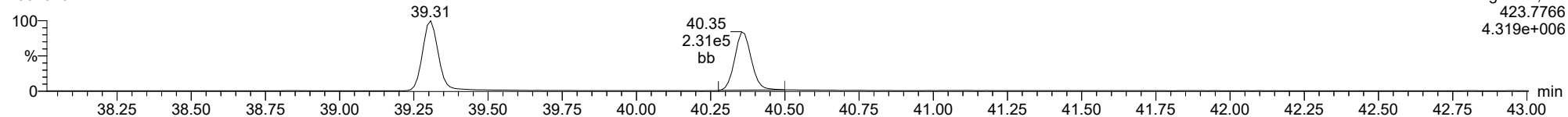
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

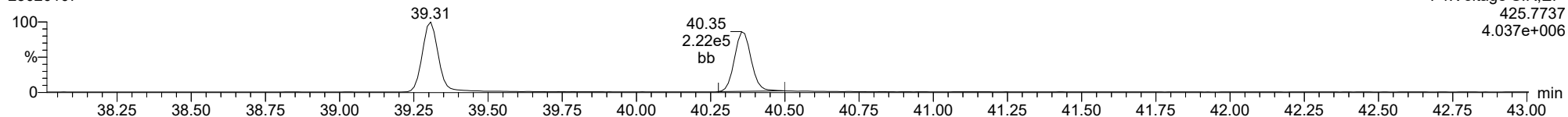
23020107



F4:Voltage SIR,El+  
423.7766  
4.319e+006

**1234678-HpCDD**

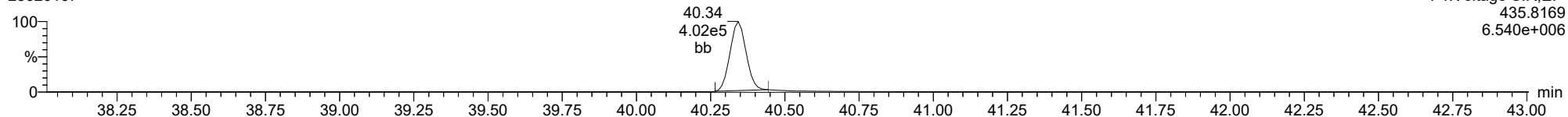
23020107



F4:Voltage SIR,El+  
425.7737  
4.037e+006

**13C-1234678-HpCDD**

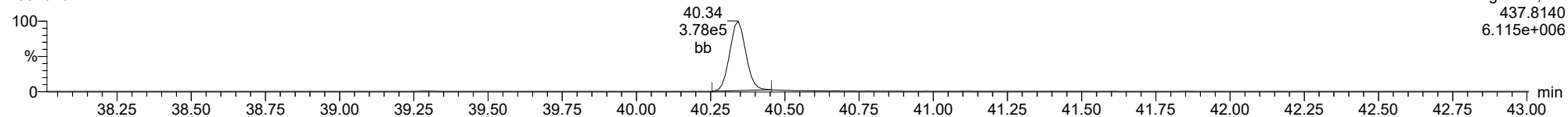
23020107



F4:Voltage SIR,El+  
435.8169  
6.540e+006

**13C-1234678-HpCDD**

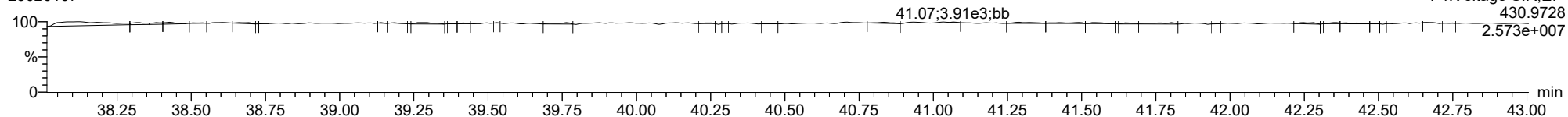
23020107



F4:Voltage SIR,El+  
437.8140  
6.115e+006

**FUNCTION4 PFK**

23020107

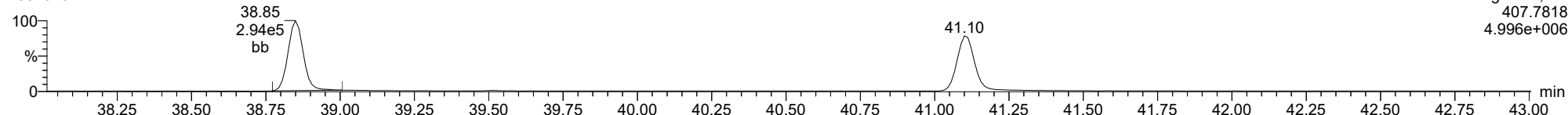


F4:Voltage SIR,El+  
430.9728  
2.573e+007

ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

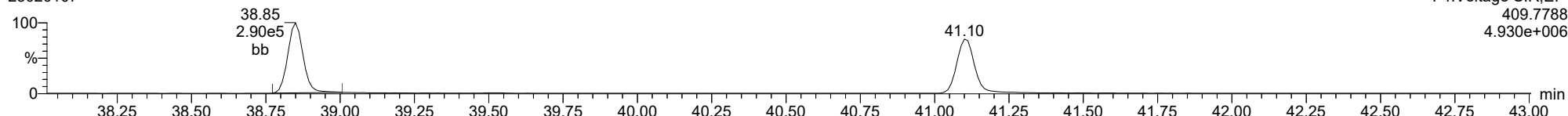
1234678-HpCDF

23020107



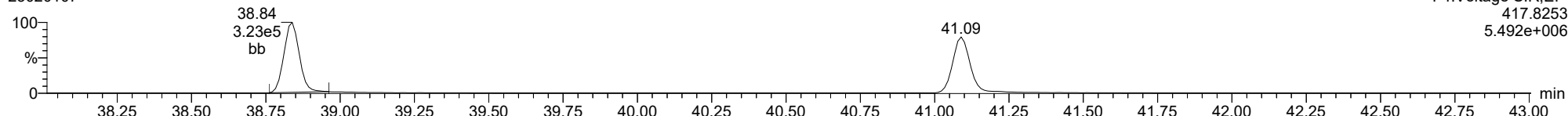
1234678-HpCDF

23020107



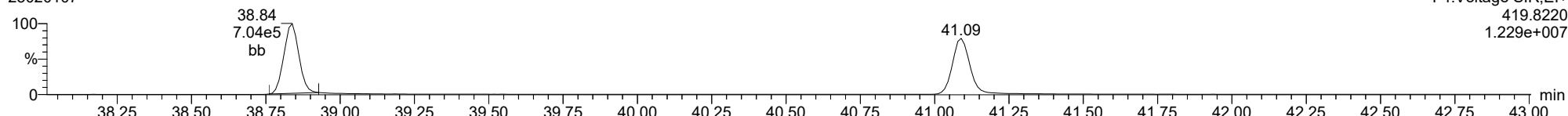
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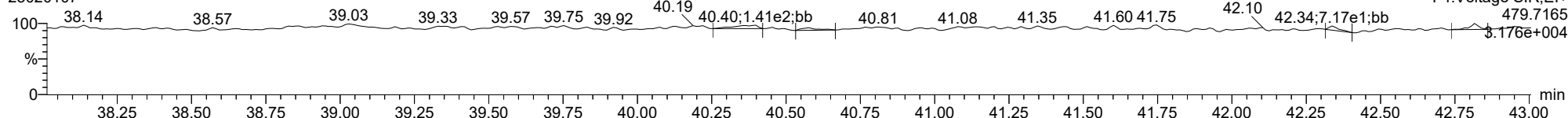
13C-1234678-HpCDF

23020107



FUNCTION4 NCDPE

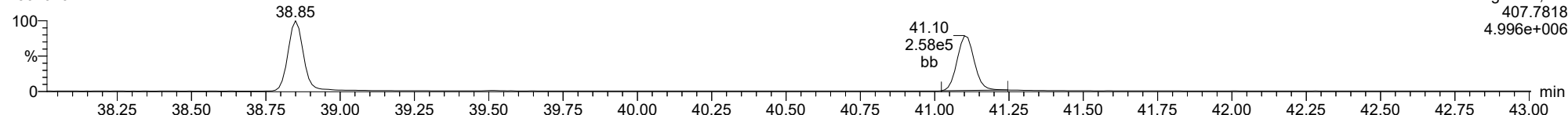
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

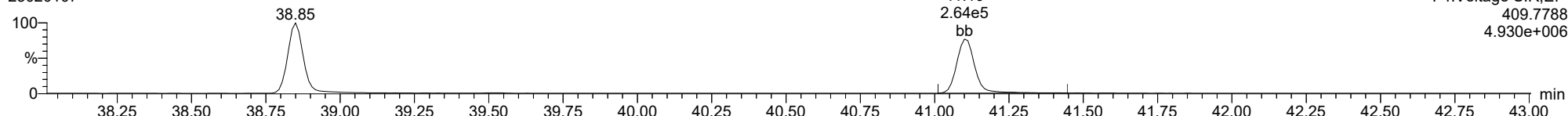
1234789-HpCDF

23020107



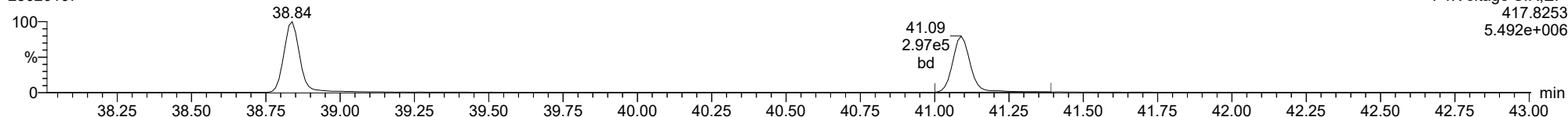
1234789-HpCDF

23020107



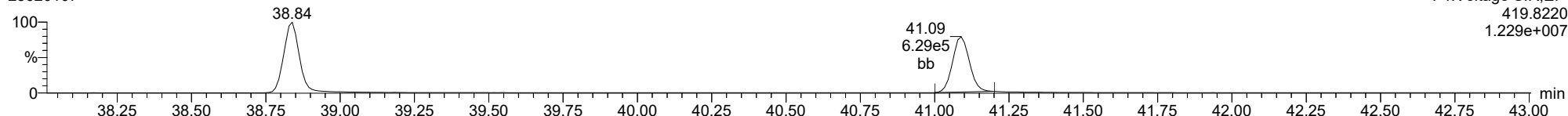
13C-1234789-HpCDF

23020107



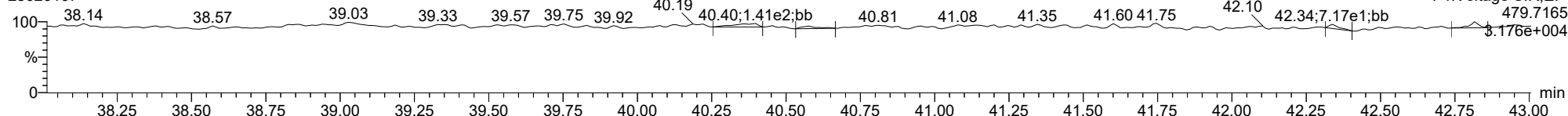
13C-1234789-HpCDF

23020107



FUNCTION4 NCDPE

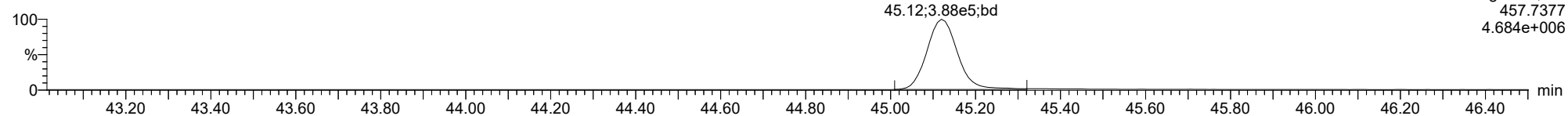
23020107



ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

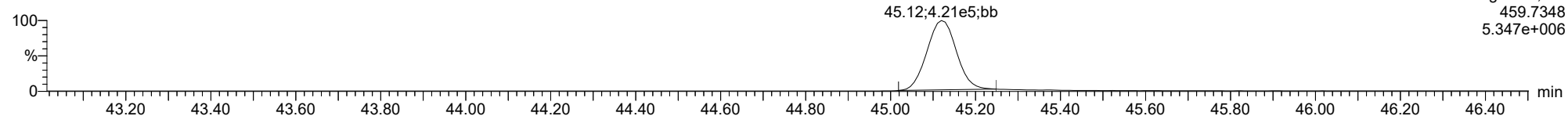
**OCDD**

23020107



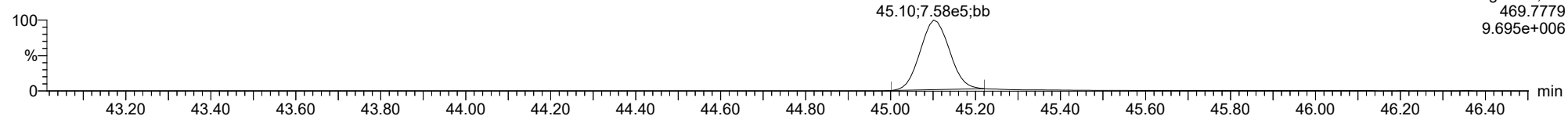
**OCDD**

23020107



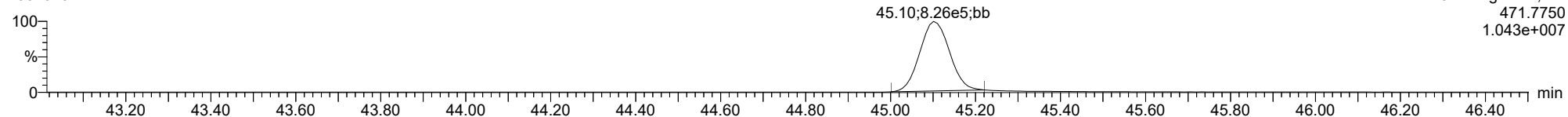
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23020107



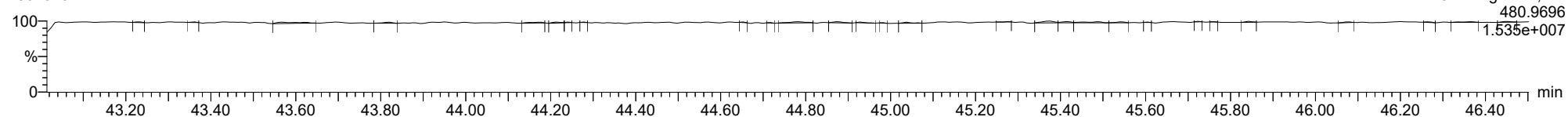
**13C-OCDD**

23020107



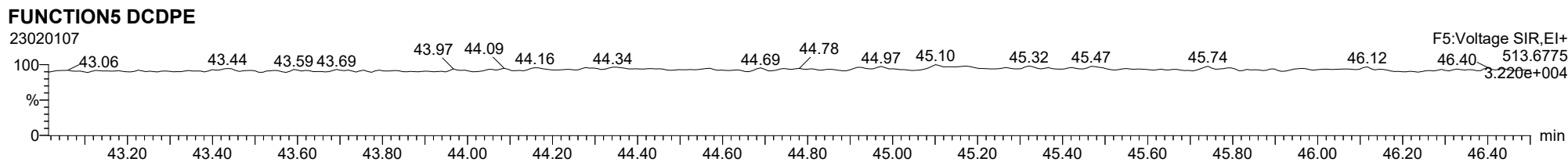
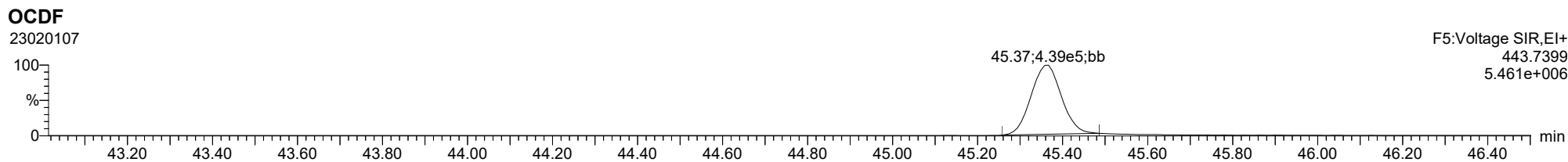
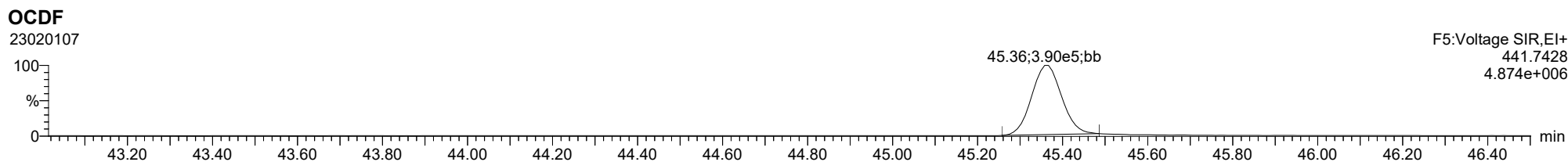
**FUNCTION5 PFK**

23020107





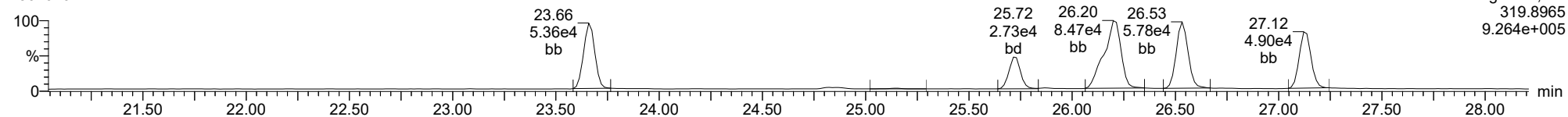
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

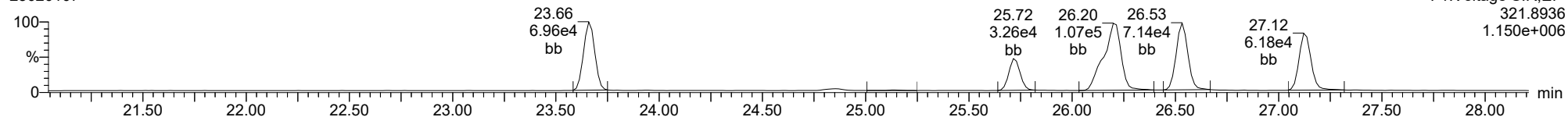
**Total-tetradoxins**

23020107



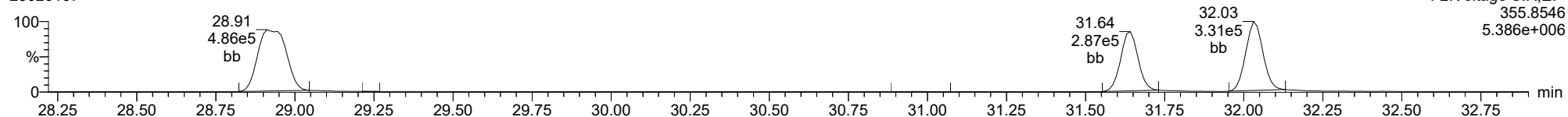
**Total-tetradoxins**

23020107



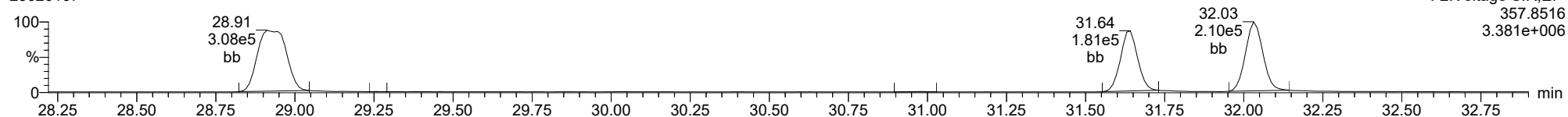
**Total-pentadoxins**

23020107



**Total-pentadoxins**

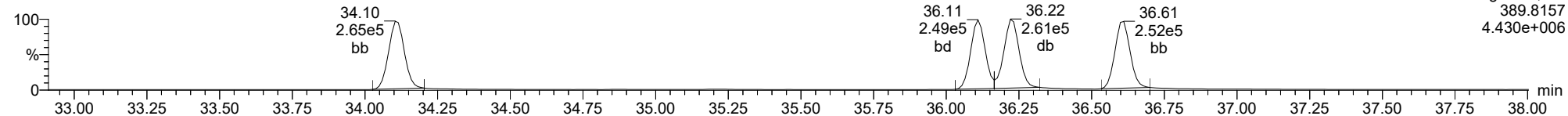
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

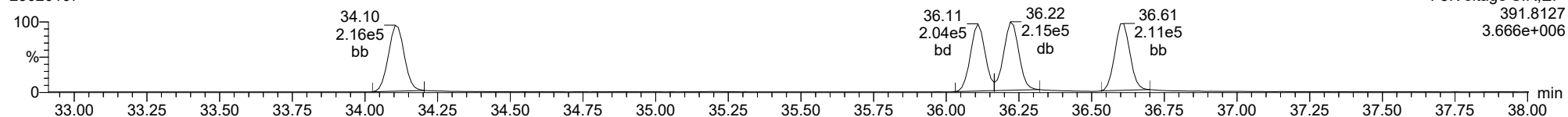
**Total-hexadioxins**

23020107



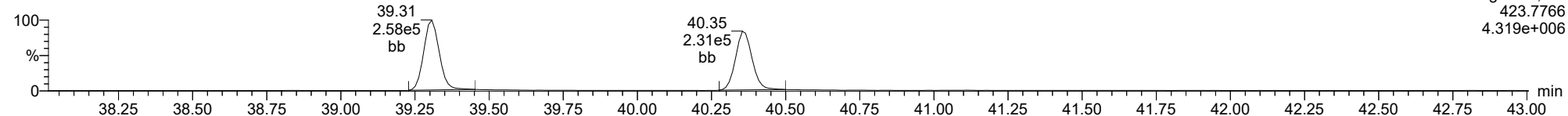
**Total-hexadioxins**

23020107



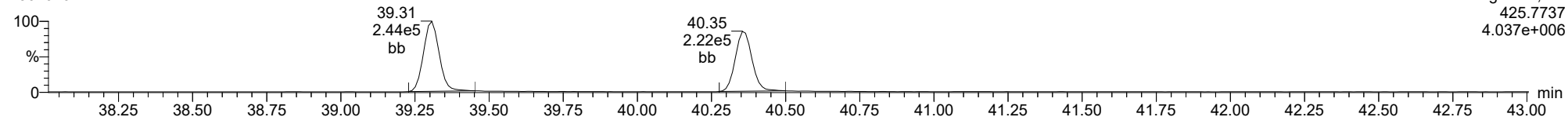
**Total-heptadioxins**

23020107



**Total-heptadioxins**

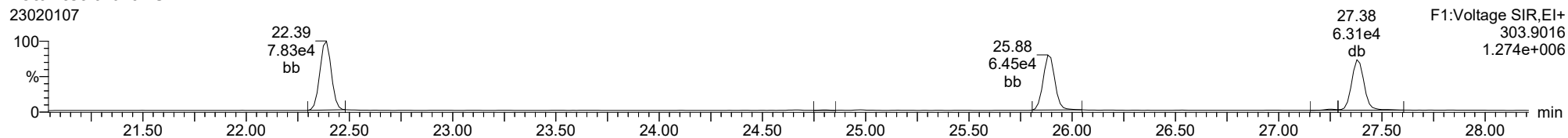
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

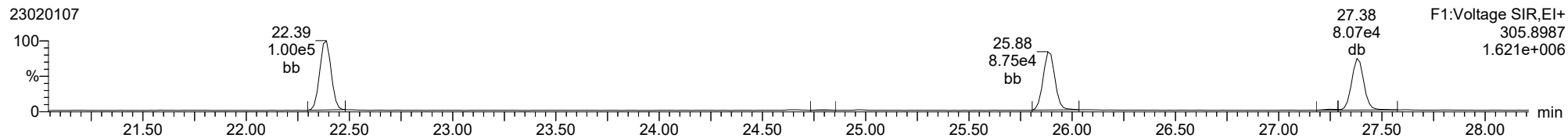
**Total-tetrafurans**

23020107



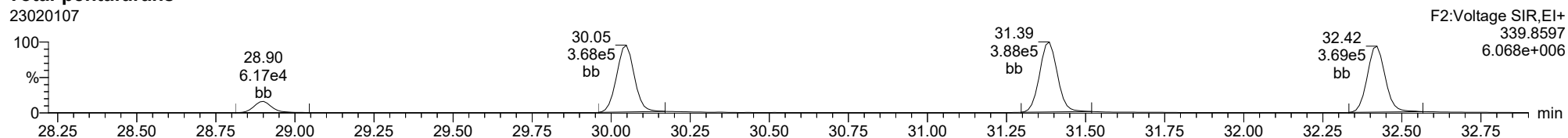
**Total-tetrafurans**

23020107



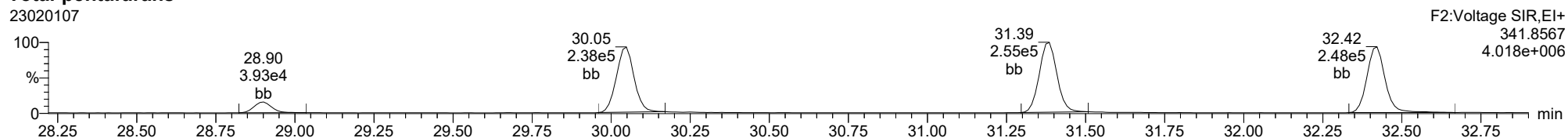
**Total-pentafurans**

23020107



**Total-pentafurans**

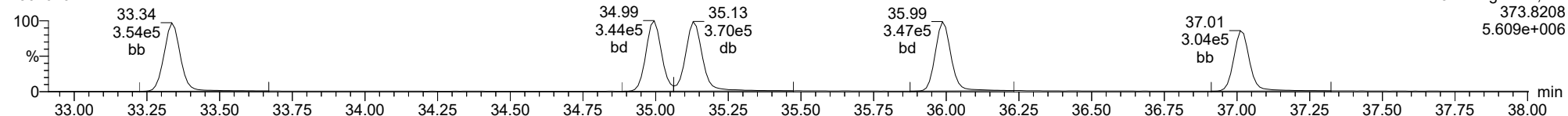
23020107



ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

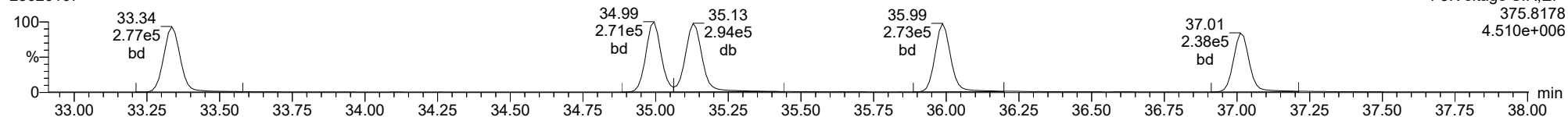
**Total-hexafurans**

23020107



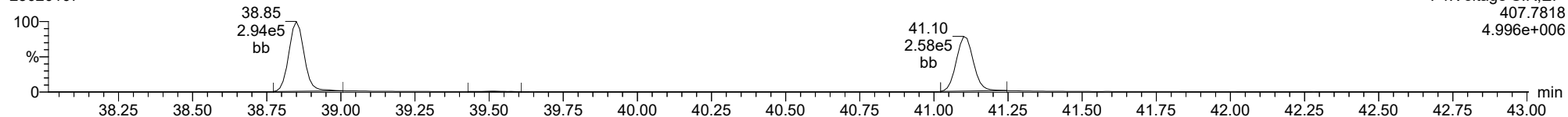
**Total-hexafurans**

23020107



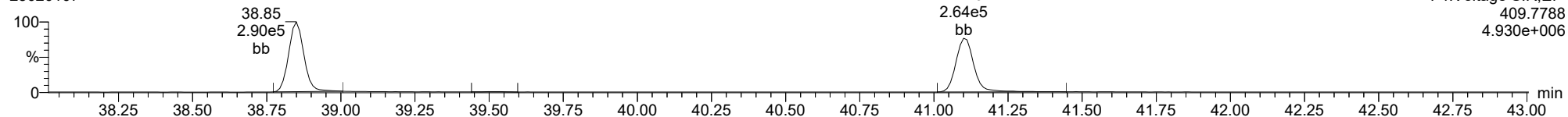
**Total-heptafurans**

23020107



**Total-heptafurans**

23020107



Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:53 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
 Calibration: 03 Feb 2023 10:33:40

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	3.837e5	5.095e5	0.876	0.753	0.770	3306	1852	5.94e6	7.78e6	1796.5	4201.3	NO	bb	bb	39.352
12378-PeCDF	30.037	1.000	2.144e6	1.419e6	0.845	1.511	1.550	3774	3458	3.38e7	2.23e7	8947.1	6442.4	NO	bb	bb	197.212
23478-PeCDF	31.374	1.000	2.253e6	1.479e6	0.911	1.523	1.550	3774	3458	3.50e7	2.30e7	9263.9	6657.7	NO	bb	bb	199.338
123478-HxCDF	34.984	1.000	2.037e6	1.599e6	1.182	1.274	1.240	4016	3299	3.25e7	2.54e7	8086.7	7697.9	NO	dd	dd	201.086
234678-HxCDF	35.987	1.001	2.093e6	1.626e6	1.229	1.288	1.240	4016	3299	3.22e7	2.54e7	8018.2	7699.6	NO	dd	bd	203.397
123678-HxCDF	35.129	1.001	2.269e6	1.771e6	1.248	1.281	1.240	4016	3299	3.41e7	2.66e7	8495.8	8063.9	NO	dd	dd	203.923
123789-HxCDF	37.012	1.001	1.817e6	1.431e6	1.187	1.269	1.240	4016	3299	2.86e7	2.23e7	7125.7	6768.1	NO	dd	bd	199.649
1234678-HpCDF	38.839	1.000	1.816e6	1.772e6	1.204	1.025	1.050	5173	5540	3.02e7	2.97e7	5847.4	5361.2	NO	bb	bb	193.935
1234789-HpCDF	41.100	1.000	1.575e6	1.522e6	1.165	1.034	1.050	5173	5540	2.37e7	2.31e7	4579.3	4164.7	NO	bb	bb	200.336
OCDF	45.357	1.006	2.485e6	2.804e6	1.186	0.886	0.890	4624	3331	3.05e7	3.43e7	6601.2	10303.1	NO	bb	bb	376.199
2378-TCDD	26.532	1.001	3.417e5	4.230e5	1.236	0.808	0.770	1943	1502	5.26e6	6.49e6	2709.1	4323.6	NO	bb	bb	40.022
12378-PeCDD	31.631	1.000	1.695e6	1.077e6	1.087	1.574	1.550	2803	1572	2.73e7	1.72e7	9745.0	10948.2	NO	bb	bb	198.713
123478-HxCDD	36.109	1.001	1.491e6	1.215e6	0.987	1.227	1.240	2230	3671	2.51e7	2.05e7	11249.2	5579.6	NO	bd	bd	204.141
123678-HxCDD	36.221	1.000	1.525e6	1.238e6	1.021	1.232	1.240	2230	3671	2.55e7	2.09e7	11440.8	5702.6	NO	db	db	192.587
123789-HxCDD	36.599	1.011	1.475e6	1.213e6	0.985	1.216	1.240	2230	3671	2.48e7	2.06e7	11134.5	5610.2	NO	bb	bb	198.496
1234678-HpCDD	40.354	1.001	1.416e6	1.361e6	1.253	1.040	1.050	2506	3274	2.22e7	2.13e7	8870.2	6512.5	NO	bb	bb	190.176
OCDD	45.120	1.000	2.302e6	2.608e6	1.103	0.883	0.890	2646	4665	2.90e7	3.29e7	10978.0	7047.3	NO	bb	bb	375.677
13C-2378-TCDF	25.867	1.007	1.141e6	1.450e6	1.768	0.786	0.770	2983	2394	1.77e7	2.25e7	5940.4	9386.6	NO	bb	bb	101.281
13C-12378-PeCDF	30.026	1.168	1.284e6	8.547e5	1.527	1.502	1.550	4680	2502	1.96e7	1.27e7	4184.1	5065.1	NO	bb	bd	96.786
13C-23478-PeCDF	31.363	1.220	1.245e6	8.091e5	1.466	1.539	1.550	4680	2502	1.90e7	1.23e7	4051.1	4925.5	NO	bb	bb	96.841
13C-123478-HxCDF	34.973	0.956	5.210e5	1.009e6	1.054	0.516	0.510	2637	3506	8.67e6	1.67e7	3288.9	4772.6	NO	bd	bd	99.631
13C-123678-HxCDF	35.107	0.960	5.527e5	1.035e6	1.080	0.534	0.510	2637	3506	9.01e6	1.71e7	3417.9	4869.2	NO	db	db	100.816
13C-234678-HxCDF	35.965	0.983	5.043e5	9.836e5	1.014	0.513	0.510	2637	3506	8.34e6	1.63e7	3164.3	4660.4	NO	bb	bb	100.617
13C-123789-HxCDF	36.989	1.011	4.610e5	9.102e5	0.928	0.507	0.510	2637	3506	7.75e6	1.54e7	2939.3	4390.8	NO	bb	bb	101.358
13C-1234678-HpCDF	38.828	1.061	4.731e5	1.063e6	1.036	0.445	0.440	3133	3783	8.09e6	1.82e7	2583.3	4811.1	NO	bb	bb	101.722
13C-1234789-HpCDF	41.089	1.123	4.094e5	9.173e5	0.905	0.446	0.440	3133	3783	6.17e6	1.38e7	1971.0	3639.0	NO	bb	bb	100.563
13C-1234-TCDD	25.700	0.000	6.435e5	8.034e5	1.000	0.801	0.770	2264	5824	1.00e7	1.24e7	4417.3	2128.2	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.031	6.869e5	8.584e5	1.103	0.800	0.770	2264	5824	1.05e7	1.31e7	4634.7	2257.9	NO	bb	bb	96.836
13C-12378-PeCDD	31.619	1.230	7.945e5	4.894e5	0.914	1.623	1.550	1351	1735	1.23e7	7.56e6	9139.9	4356.9	NO	bb	bb	97.071
13C-123478-HxCDD	36.087	0.986	7.592e5	5.838e5	0.933	1.300	1.240	2349	1779	1.29e7	9.89e6	5485.2	5561.8	NO	bd	bd	98.749
13C-123678-HxCDD	36.210	0.990	7.891e5	6.166e5	0.965	1.280	1.240	2349	1779	1.26e7	9.87e6	5351.9	5549.2	NO	db	db	99.960
13C-1234678-HpCDD	40.332	1.102	6.034e5	5.625e5	0.782	1.073	1.050	2813	2017	9.31e6	8.69e6	3310.2	4307.9	NO	bb	bb	102.265
13C-OCDD	45.101	1.233	1.130e6	1.241e6	0.788	0.911	0.890	2295	1626	1.42e7	1.55e7	6172.7	9561.2	NO	bb	bb	206.289
13C-123789-HxCDD	36.588	0.000	8.190e5	6.388e5	1.000	1.282	1.240	2349	1779	1.32e7	1.04e7	5620.6	5858.2	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	6.581e5		1.233			1941		1.01e7		5210.0			bb		36.879

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:53 Pacific Standard Time

**ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	3306	1852								
1289-TCDF					0.858		0.770	3306	1852								
13468-PECDF					1.013		1.550	3731	5783								
12389-PECDF					0.844		1.550	3774	3458								
123468-HXCDF					1.197		1.240	4016	3299								
1368-TCDD					1.084		0.770	1943	1502								
1289-TCDD					0.975		0.770	1943	1502								
12479-PECDD					1.837		1.550	2803	1572								
12389-PECDD					1.252		1.550	2803	1572								
124679-HXCDD					1.033		1.240	2230	3671								
1234679-HPCDD					1.286		1.050	2506	3274								
Total-tetrafurans			3.913e5		0.933			3306		6.07e6							40.082
Total-penta1			0.000e0					3731		0.00e0							
Total-pentafurans			4.421e6		0.866			3774		6.91e7							398.784
Total-hexafurans			8.218e6		1.208			4016		1.27e8							808.248
Total-heptafurans			3.395e6		1.185			5173		5.40e7							394.809
Total-Furans			1.891e7		1.067			3306		2.87e8							2018.122
Total-tetradoxins			3.511e5		1.099			1943		5.38e6							41.245
Total-pentadoxins			1.697e6		1.392			2803		2.73e7							198.842
Total-hexadoxins			4.491e6		1.007			2230		7.54e7							595.224
Total-heptadoxins			1.416e6		1.269			2506		2.22e7							190.176
Total-Dioxins			1.026e7		1.165			1943		1.59e8							1401.163
Total-TEQ			2.917e7					1943		4.47e8							3419.285
FUNCTION1 PFK			4.404e5					580120		1.21e7							
FUNCTION2 PFK			1.273e5					196333		3.80e6							0.000
FUNCTION3 PFK			0.000e0					408061		0.00e0							
FUNCTION4 PFK			2.183e5					275800		6.18e6							
FUNCTION5 PFK			0.000e0					154157		0.00e0							
FUNCTION1 HXCD...			1.662e4					8726		3.10e5							0.000
FUNCTION1 HPCD...			1.579e4					6150		2.65e5							0.000
FUNCTION2 HPCD...			2.593e3					848		4.54e4							0.000
FUNCTION3 OCDPE			1.183e3					745		1.55e4							0.000
FUNCTION4 NCDPE			4.176e2					872		5.06e3							0.000
FUNCTION5 DCDPE			3.248e2					814		4.90e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:37:53 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**

**Calibration: 03 Feb 2023 10:33:40**

**ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.88	3.837e5	5.095e5	0.876	0.75	0.77	1796.5	YES	NO	bb	bb	39.352
2	Total-tetrafurans	24.97	2.571e3	3.313e3	0.933	0.78	0.77	11.3	YES	NO	bb	bb	0.243
3	Total-tetrafurans	24.64	3.935e3	5.312e3	0.933	0.74	0.77	18.1	YES	NO	bd	dd	0.383
4	Total-tetrafurans	24.51	1.158e3	1.353e3	0.933	0.86	0.77	9.5	YES	NO	db	dd	0.104

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	31.62	2.192e3	1.347e3	0.866	1.63	1.55	9.8	YES	NO	bb	bd	0.195
2	23478-PeCDF	31.37	2.253e6	1.479e6	0.911	1.52	1.55	9263.9	YES	NO	bb	bb	199.338
3	Total-pentafurans	31.11	2.570e3	1.840e3	0.866	1.40	1.55	11.2	YES	NO	bb	bb	0.243
4	12378-PeCDF	30.04	2.144e6	1.419e6	0.845	1.51	1.55	8947.1	YES	NO	bb	bb	197.212
5	Total-pentafurans	29.67	1.564e3	9.796e2	0.866	1.60	1.55	6.5	YES	NO	bd	bd	0.140
6	Total-pentafurans	32.41	1.819e4	1.189e4	0.866	1.53	1.55	66.2	YES	NO	bb	bb	1.656

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.99	2.093e6	1.626e6	1.229	1.29	1.24	8018.2	YES	NO	dd	bd	203.397
2	123678-HxCDF	35.13	2.269e6	1.771e6	1.248	1.28	1.24	8495.8	YES	NO	dd	dd	203.923
3	123478-HxCDF	34.98	2.037e6	1.599e6	1.182	1.27	1.24	8086.7	YES	NO	dd	dd	201.086
4	Total-hexafurans	33.52	1.932e3	1.561e3	1.208	1.24	1.24	6.5	YES	NO	bb	bb	0.193
5	123789-HxCDF	37.01	1.817e6	1.431e6	1.187	1.27	1.24	7125.7	YES	NO	dd	bd	199.649

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	1.575e6	1.522e6	1.165	1.03	1.05	4579.3	YES	NO	bb	bb	200.336
2	Total-heptafurans	39.51	4.373e3	4.751e3	1.185	0.92	1.05	13.2	YES	NO	bb	bb	0.538
3	1234678-HpCDF	38.84	1.816e6	1.772e6	1.204	1.02	1.05	5847.4	YES	NO	bb	bb	193.935



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
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 Printed: Friday, February 03, 2023 10:37:53 Pacific Standard Time

**ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.88	3.837e5	5.095e5	0.876	0.75	0.77	1796.5	YES	NO	bb	bb	39.352
2	Total-tetrafurans	24.97	2.571e3	3.313e3	0.933	0.78	0.77	11.3	YES	NO	bb	bb	0.243
3	Total-tetrafurans	24.64	3.935e3	5.312e3	0.933	0.74	0.77	18.1	YES	NO	bd	dd	0.383
4	Total-tetrafurans	24.51	1.158e3	1.353e3	0.933	0.86	0.77	9.5	YES	NO	db	dd	0.104
5	Total-pentafurans	31.62	2.192e3	1.347e3	0.866	1.63	1.55	9.8	YES	NO	bb	bd	0.195
6	23478-PeCDF	31.37	2.253e6	1.479e6	0.911	1.52	1.55	9263.9	YES	NO	bb	bb	199.338
7	Total-pentafurans	31.11	2.570e3	1.840e3	0.866	1.40	1.55	11.2	YES	NO	bb	bb	0.243
8	12378-PeCDF	30.04	2.144e6	1.419e6	0.845	1.51	1.55	8947.1	YES	NO	bb	bb	197.212
9	Total-pentafurans	29.67	1.564e3	9.796e2	0.866	1.60	1.55	6.5	YES	NO	bd	bd	0.140
10	Total-pentafurans	32.41	1.819e4	1.189e4	0.866	1.53	1.55	66.2	YES	NO	bb	bb	1.656
11	234678-HxCDF	35.99	2.093e6	1.626e6	1.229	1.29	1.24	8018.2	YES	NO	dd	bd	203.397
12	123678-HxCDF	35.13	2.269e6	1.771e6	1.248	1.28	1.24	8495.8	YES	NO	dd	dd	203.923
13	123478-HxCDF	34.98	2.037e6	1.599e6	1.182	1.27	1.24	8086.7	YES	NO	dd	dd	201.086
14	Total-hexafurans	33.52	1.932e3	1.561e3	1.208	1.24	1.24	6.5	YES	NO	bb	bb	0.193
15	123789-HxCDF	37.01	1.817e6	1.431e6	1.187	1.27	1.24	7125.7	YES	NO	dd	bd	199.649
16	1234789-HpCDF	41.10	1.575e6	1.522e6	1.165	1.03	1.05	4579.3	YES	NO	bb	bb	200.336
17	Total-heptafurans	39.51	4.373e3	4.751e3	1.185	0.92	1.05	13.2	YES	NO	bb	bb	0.538
18	1234678-HpCDF	38.84	1.816e6	1.772e6	1.204	1.02	1.05	5847.4	YES	NO	bb	bb	193.935
19	OCDF	45.36	2.485e6	2.804e6	1.186	0.89	0.89	6601.2	YES	NO	bb	bb	376.199

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	3.417e5	4.230e5	1.236	0.81	0.77	2709.1	YES	NO	bb	bb	40.022
2	Total-tetradoxins	26.14	8.070e3	9.722e3	1.099	0.83	0.77	49.8	YES	NO	bb	bb	1.048
3	Total-tetradoxins	25.38	3.531e2	4.421e2	1.099	0.80	0.77	2.4	NO	NO	bb	bb	0.047
4	Total-tetradoxins	26.96	1.013e3	1.157e3	1.099	0.88	0.77	7.2	YES	NO	bd	bd	0.128

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.63	1.695e6	1.077e6	1.087	1.57	1.55	9745.0	YES	NO	bb	bb	198.713
2	Total-pentadoxins	30.04	1.464e3	8.371e2	1.392	1.75	1.55	8.8	YES	NO	bb	bb	0.129

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.60	1.475e6	1.213e6	0.985	1.22	1.24	11134.5	YES	NO	bb	bb	198.496
2	123678-HxCDD	36.22	1.525e6	1.238e6	1.021	1.23	1.24	11440.8	YES	NO	db	db	192.587
3	123478-HxCDD	36.11	1.491e6	1.215e6	0.987	1.23	1.24	11249.2	YES	NO	bd	bd	204.141

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	1.416e6	1.361e6	1.253	1.04	1.05	8870.2	YES	NO	bb	bb	190.176

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	3.417e5	4.230e5	1.236	0.81	0.77	2709.1	YES	NO	bb	bb	40.022
2	Total-tetradoxins	26.14	8.070e3	9.722e3	1.099	0.83	0.77	49.8	YES	NO	bb	bb	1.048
3	Total-tetradoxins	25.38	3.531e2	4.421e2	1.099	0.80	0.77	2.4	NO	NO	bb	bb	0.047
4	Total-tetradoxins	26.96	1.013e3	1.157e3	1.099	0.88	0.77	7.2	YES	NO	bd	bd	0.128
5	12378-PeCDD	31.63	1.695e6	1.077e6	1.087	1.57	1.55	9745.0	YES	NO	bb	bb	198.713
6	Total-pentadoxins	30.04	1.464e3	8.371e2	1.392	1.75	1.55	8.8	YES	NO	bb	bb	0.129
7	123789-HxCDD	36.60	1.475e6	1.213e6	0.985	1.22	1.24	11134.5	YES	NO	bb	bb	198.496
8	123678-HxCDD	36.22	1.525e6	1.238e6	1.021	1.23	1.24	11440.8	YES	NO	db	db	192.587
9	123478-HxCDD	36.11	1.491e6	1.215e6	0.987	1.23	1.24	11249.2	YES	NO	bd	bd	204.141
10	1234678-HpCDD	40.35	1.416e6	1.361e6	1.253	1.04	1.05	8870.2	YES	NO	bb	bb	190.176
11	OCDD	45.12	2.302e6	2.608e6	1.103	0.88	0.89	10978.0	YES	NO	bb	bb	375.677

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.88	3.837e5	5.095e5	0.876	0.75	0.77	1796.5	YES	NO	bb	bb	39.352
2	Total-tetrafurans	24.97	2.571e3	3.313e3	0.933	0.78	0.77	11.3	YES	NO	bb	bb	0.243
3	Total-tetrafurans	24.64	3.935e3	5.312e3	0.933	0.74	0.77	18.1	YES	NO	bd	dd	0.383
4	Total-tetrafurans	24.51	1.158e3	1.353e3	0.933	0.86	0.77	9.5	YES	NO	db	dd	0.104
5	Total-pentafurans	31.62	2.192e3	1.347e3	0.866	1.63	1.55	9.8	YES	NO	bb	bd	0.195
6	23478-PeCDF	31.37	2.253e6	1.479e6	0.911	1.52	1.55	9263.9	YES	NO	bb	bb	199.338
7	Total-pentafurans	31.11	2.570e3	1.840e3	0.866	1.40	1.55	11.2	YES	NO	bb	bb	0.243
8	12378-PeCDF	30.04	2.144e6	1.419e6	0.845	1.51	1.55	8947.1	YES	NO	bb	bb	197.212
9	Total-pentafurans	29.67	1.564e3	9.796e2	0.866	1.60	1.55	6.5	YES	NO	bd	bd	0.140
10	Total-pentafurans	32.41	1.819e4	1.189e4	0.866	1.53	1.55	66.2	YES	NO	bb	bb	1.656
11	234678-HxCDF	35.99	2.093e6	1.626e6	1.229	1.29	1.24	8018.2	YES	NO	dd	bd	203.397
12	123678-HxCDF	35.13	2.269e6	1.771e6	1.248	1.28	1.24	8495.8	YES	NO	dd	dd	203.923
13	123478-HxCDF	34.98	2.037e6	1.599e6	1.182	1.27	1.24	8086.7	YES	NO	dd	dd	201.086
14	Total-hexafurans	33.52	1.932e3	1.561e3	1.208	1.24	1.24	6.5	YES	NO	bb	bb	0.193
15	123789-HxCDF	37.01	1.817e6	1.431e6	1.187	1.27	1.24	7125.7	YES	NO	dd	bd	199.649
16	1234789-HpCDF	41.10	1.575e6	1.522e6	1.165	1.03	1.05	4579.3	YES	NO	bb	bb	200.336
17	Total-heptafurans	39.51	4.373e3	4.751e3	1.185	0.92	1.05	13.2	YES	NO	bb	bb	0.538
18	1234678-HpCDF	38.84	1.816e6	1.772e6	1.204	1.02	1.05	5847.4	YES	NO	bb	bb	193.935
19	OCDF	45.36	2.485e6	2.804e6	1.186	0.89	0.89	6601.2	YES	NO	bb	bb	376.199
20	2378-TCDD	26.53	3.417e5	4.230e5	1.236	0.81	0.77	2709.1	YES	NO	bb	bb	40.022
21	Total-tetradiioxins	26.14	8.070e3	9.722e3	1.099	0.83	0.77	49.8	YES	NO	bb	bb	1.048
22	Total-tetradiioxins	25.38	3.531e2	4.421e2	1.099	0.80	0.77	2.4	NO	NO	bb	bb	0.047
23	Total-tetradiioxins	26.96	1.013e3	1.157e3	1.099	0.88	0.77	7.2	YES	NO	bd	bd	0.128
24	12378-PeCDD	31.63	1.695e6	1.077e6	1.087	1.57	1.55	9745.0	YES	NO	bb	bb	198.713
25	Total-pentadiioxins	30.04	1.464e3	8.371e2	1.392	1.75	1.55	8.8	YES	NO	bb	bb	0.129
26	123789-HxCDD	36.60	1.475e6	1.213e6	0.985	1.22	1.24	11134.5	YES	NO	bb	bb	198.496
27	123678-HxCDD	36.22	1.525e6	1.238e6	1.021	1.23	1.24	11440.8	YES	NO	db	db	192.587
28	123478-HxCDD	36.11	1.491e6	1.215e6	0.987	1.23	1.24	11249.2	YES	NO	bd	bd	204.141
29	1234678-HpCDD	40.35	1.416e6	1.361e6	1.253	1.04	1.05	8870.2	YES	NO	bb	bb	190.176
30	OCDD	45.12	2.302e6	2.608e6	1.103	0.88	0.89	10978.0	YES	NO	bb	bb	375.677

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.96	2.020e4					1.1	NO		bb		
2	FUNCTION1 PFK	24.40	2.455e4					1.2	NO		bb		
3	FUNCTION1 PFK	23.70	1.570e4					0.9	NO		bb		
4	FUNCTION1 PFK	22.21	1.520e4					0.8	NO		bb		
5	FUNCTION1 PFK	21.98	2.815e4					1.2	NO		bb		
6	FUNCTION1 PFK	21.62	2.203e4					0.8	NO		bb		
7	FUNCTION1 PFK	21.38	1.821e4					1.0	NO		bb		
8	FUNCTION1 PFK	28.09	4.216e4					1.7	NO		bb		
9	FUNCTION1 PFK	27.48	1.001e4					0.6	NO		bb		
10	FUNCTION1 PFK	27.36	2.341e4					1.3	NO		bb		
11	FUNCTION1 PFK	27.09	4.217e3					0.5	NO		bb		
12	FUNCTION1 PFK	26.77	7.075e3					0.7	NO		bb		
13	FUNCTION1 PFK	26.65	1.537e4					1.0	NO		bb		
14	FUNCTION1 PFK	26.53	2.228e4					1.3	NO		bb		
15	FUNCTION1 PFK	26.06	1.292e4					0.8	NO		bb		
16	FUNCTION1 PFK	25.75	9.216e3					0.7	NO		bb		
17	FUNCTION1 PFK	25.69	2.942e4					1.5	NO		bb		
18	FUNCTION1 PFK	25.47	3.380e4					1.3	NO		bb		
19	FUNCTION1 PFK	25.35	5.518e4					1.2	NO		db		
20	FUNCTION1 PFK	25.23	3.130e4					1.5	NO		bd		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.88	2.296e4					1.8	NO		bb		0.000
2	FUNCTION2 PFK	28.30	1.717e4					1.6	NO		bb		0.000
3	FUNCTION2 PFK	32.49	5.254e3					1.3	NO		bb		0.000
4	FUNCTION2 PFK	32.37	7.309e3					1.1	NO		bb		0.000
5	FUNCTION2 PFK	32.29	1.359e3					0.6	NO		bb		0.000
6	FUNCTION2 PFK	32.17	6.182e3					1.2	NO		bb		0.000
7	FUNCTION2 PFK	31.90	1.405e4					1.8	NO		bb		0.000
8	FUNCTION2 PFK	31.55	3.011e3					0.9	NO		bb		0.000
9	FUNCTION2 PFK	31.41	1.210e4					1.2	NO		bb		0.000
10	FUNCTION2 PFK	30.57	3.830e3					0.9	NO		bb		0.000
11	FUNCTION2 PFK	30.45	4.598e3					1.0	NO		bb		0.000
12	FUNCTION2 PFK	29.87	5.333e3					1.1	NO		bb		0.000
13	FUNCTION2 PFK	29.60	5.195e3					1.1	NO		db		0.000
14	FUNCTION2 PFK	29.56	5.154e3					1.1	NO		bd		0.000
15	FUNCTION2 PFK	29.50	7.364e3					1.4	NO		bb		0.000
16	FUNCTION2 PFK	29.17	6.453e3					1.3	NO		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.21	5.273e3					0.9	NO		bb		
2	FUNCTION4 PFK	40.14	5.827e3					1.0	NO		bb		
3	FUNCTION4 PFK	40.00	4.667e3					0.8	NO		bb		
4	FUNCTION4 PFK	39.82	1.112e3					0.4	NO		bb		
5	FUNCTION4 PFK	39.74	4.984e3					0.8	NO		bb		
6	FUNCTION4 PFK	39.65	3.641e4					1.9	NO		db		
7	FUNCTION4 PFK	39.60	1.243e4					1.6	NO		bd		
8	FUNCTION4 PFK	39.21	6.478e3					1.0	NO		bb		
9	FUNCTION4 PFK	38.98	1.375e3					0.4	NO		bb		
10	FUNCTION4 PFK	38.83	5.023e3					0.8	NO		bb		
11	FUNCTION4 PFK	38.78	4.916e3					0.9	NO		bb		
12	FUNCTION4 PFK	38.68	8.802e3					1.2	NO		bb		
13	FUNCTION4 PFK	38.54	1.096e4					1.2	NO		bb		
14	FUNCTION4 PFK	38.35	1.188e4					1.5	NO		db		
15	FUNCTION4 PFK	38.32	9.581e3					1.3	NO		bd		
16	FUNCTION4 PFK	38.09	5.192e4					1.9	NO		bb		
17	FUNCTION4 PFK	42.95	1.120e3					0.4	NO		bb		
18	FUNCTION4 PFK	42.68	3.847e3					0.6	NO		bb		
19	FUNCTION4 PFK	42.38	1.500e4					1.7	NO		bb		
20	FUNCTION4 PFK	41.06	1.232e4					1.2	NO		bb		
21	FUNCTION4 PFK	40.81	4.336e3					0.7	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.09	1.365e2					0.3	NO		bb		0.000
2	FUNCTION1 HXCD...	25.88	7.559e1					0.2	NO		bb		0.000
3	FUNCTION1 HXCD...	25.69	1.535e2					0.2	NO		bb		0.000
4	FUNCTION1 HXCD...	25.38	9.009e1					0.2	NO		bb		0.000
5	FUNCTION1 HXCD...	24.76	1.387e2					0.2	NO		bb		0.000
6	FUNCTION1 HXCD...	24.49	2.087e3					4.8	YES		db		0.000
7	FUNCTION1 HXCD...	24.42	1.113e3					3.5	YES		bd		0.000
8	FUNCTION1 HXCD...	24.07	1.214e2					0.2	NO		bb		0.000
9	FUNCTION1 HXCD...	22.93	9.005e1					0.3	NO		bb		0.000
10	FUNCTION1 HXCD...	28.03	7.580e1					0.2	NO		bb		0.000
11	FUNCTION1 HXCD...	27.80	7.466e1					0.2	NO		bb		0.000
12	FUNCTION1 HXCD...	27.64	9.719e1					0.2	NO		bb		0.000
13	FUNCTION1 HXCD...	27.11	4.735e3					11.6	YES		db		0.000
14	FUNCTION1 HXCD...	27.06	1.264e3					2.6	NO		dd		0.000
15	FUNCTION1 HXCD...	26.99	2.557e3					3.1	YES		dd		0.000
16	FUNCTION1 HXCD...	26.82	1.150e3					2.1	NO		dd		0.000
17	FUNCTION1 HXCD...	26.76	1.090e3					2.6	NO		dd		0.000
18	FUNCTION1 HXCD...	26.68	5.202e2					1.1	NO		dd		0.000
19	FUNCTION1 HXCD...	26.59	4.632e2					0.7	NO		dd		0.000
20	FUNCTION1 HXCD...	26.50	3.837e2					0.7	NO		dd		0.000
21	FUNCTION1 HXCD...	26.44	7.925e1					0.2	NO		bd		0.000
22	FUNCTION1 HXCD...	26.26	1.202e2					0.3	NO		bb		0.000

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	21.53	8.754e1					0.3	NO		dd		0.000
2	FUNCTION1 HPCD...	21.39	1.338e2					0.2	NO		bd		0.000
3	FUNCTION1 HPCD...	27.06	1.227e3					3.5	YES		dd		0.000
4	FUNCTION1 HPCD...	26.96	2.312e3					4.3	YES		dd		0.000
5	FUNCTION1 HPCD...	26.83	1.175e3					2.8	NO		dd		0.000
6	FUNCTION1 HPCD...	26.76	1.583e3					4.1	YES		dd		0.000
7	FUNCTION1 HPCD...	26.67	5.135e2					1.6	NO		dd		0.000
8	FUNCTION1 HPCD...	26.58	6.861e2					1.1	NO		dd		0.000
9	FUNCTION1 HPCD...	26.50	1.748e2					0.8	NO		dd		0.000
10	FUNCTION1 HPCD...	26.44	2.373e2					0.4	NO		dd		0.000
11	FUNCTION1 HPCD...	26.26	1.300e2					0.4	NO		bd		0.000
12	FUNCTION1 HPCD...	25.91	1.988e2					0.2	NO		bb		0.000
13	FUNCTION1 HPCD...	25.72	1.012e2					0.3	NO		bb		0.000
14	FUNCTION1 HPCD...	25.53	1.466e2					0.3	NO		db		0.000
15	FUNCTION1 HPCD...	25.32	1.918e2					0.4	NO		bd		0.000
16	FUNCTION1 HPCD...	24.51	2.090e3					6.7	YES		db		0.000
17	FUNCTION1 HPCD...	24.42	8.854e2					3.8	YES		bd		0.000
18	FUNCTION1 HPCD...	21.60	9.175e1					0.3	NO		db		0.000
19	FUNCTION1 HPCD...	27.77	9.425e1					0.4	NO		bb		0.000
20	FUNCTION1 HPCD...	27.65	7.376e1					0.3	NO		db		0.000
21	FUNCTION1 HPCD...	27.53	1.152e2					0.4	NO		bd		0.000
22	FUNCTION1 HPCD...	27.12	3.540e3					10.6	YES		db		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.63	1.971e2					4.5	YES		bb		0.000
2	FUNCTION2 HPCD...	31.26	2.238e3					45.1	YES		bb		0.000
3	FUNCTION2 HPCD...	29.60	1.581e2					4.1	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.60	5.924e2					8.6	YES		bb		0.000
2	FUNCTION3 OCDPE	36.21	3.178e2					6.7	YES		db		0.000
3	FUNCTION3 OCDPE	36.10	2.730e2					5.6	YES		bd		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:37:53 Pacific Standard Time

**ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk****ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.40	3.196e2					3.7	YES		bb		0.000
2	FUNCTION4 NCDPE	38.52	9.797e1					2.1	NO		bb		0.000

**ETHERS6**

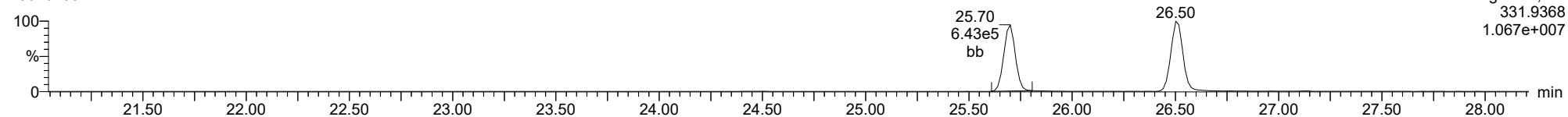
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.14	3.248e2					6.0	YES		bb		0.000

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: 03 Feb 2023 10:33:40**

**ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk**

**13C-1234-TCDD**

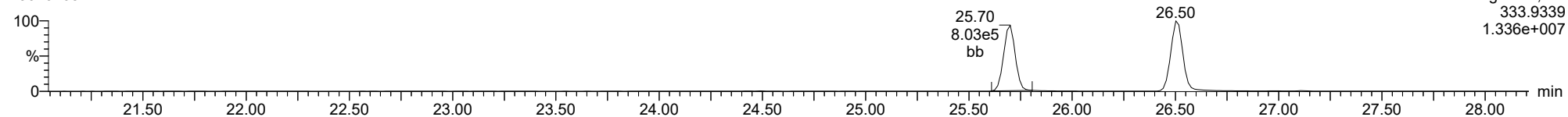
23020108



F1:Voltage SIR,El+  
331.9368  
1.067e+007

**13C-1234-TCDD**

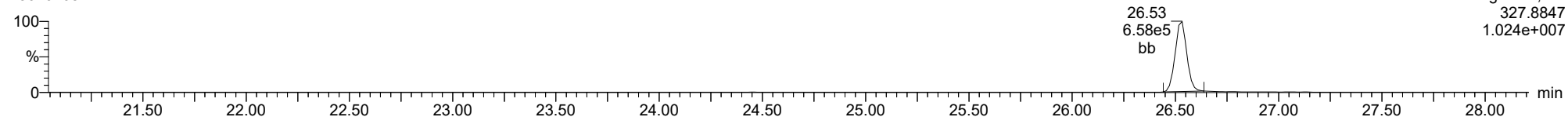
23020108



F1:Voltage SIR,El+  
333.9339  
1.336e+007

**37CL-2378-TCDD**

23020108

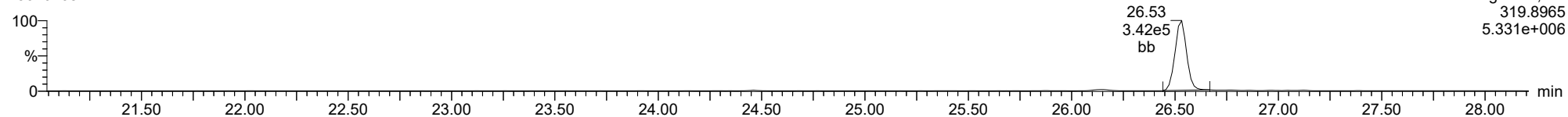


F1:Voltage SIR,El+  
327.8847  
1.024e+007

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

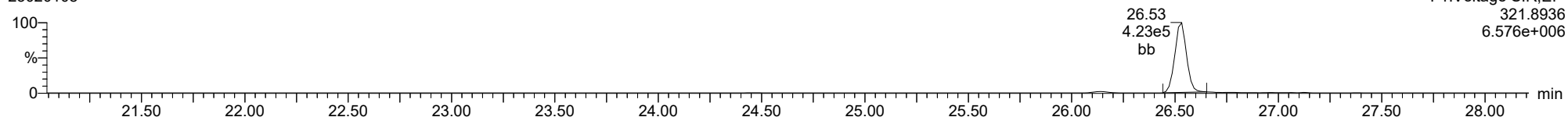
**2378-TCDD**

23020108



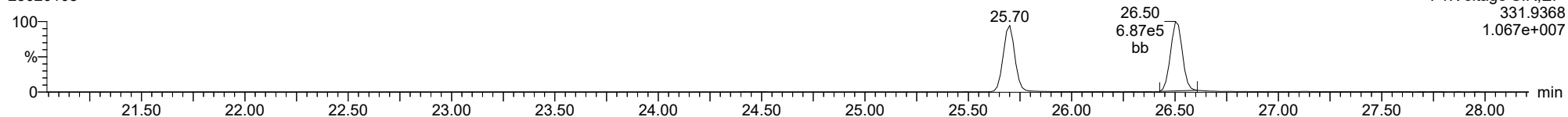
**2378-TCDD**

23020108



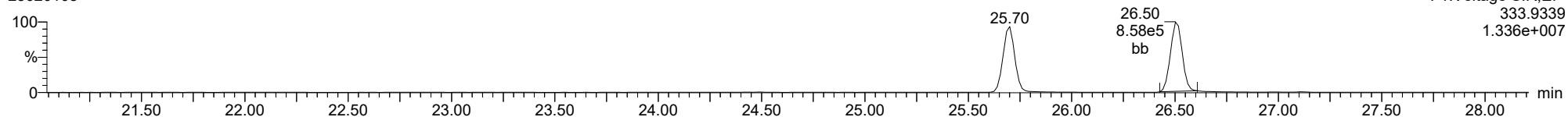
**13C-2378-TCDD**

23020108



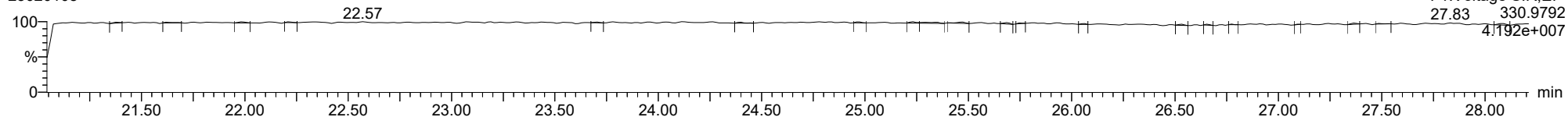
**13C-2378-TCDD**

23020108



**FUNCTION1 PFK**

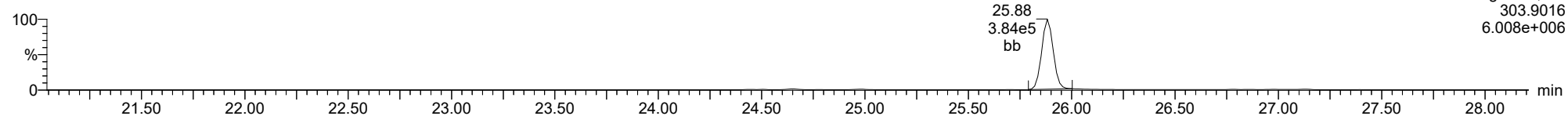
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

**2378-TCDF**

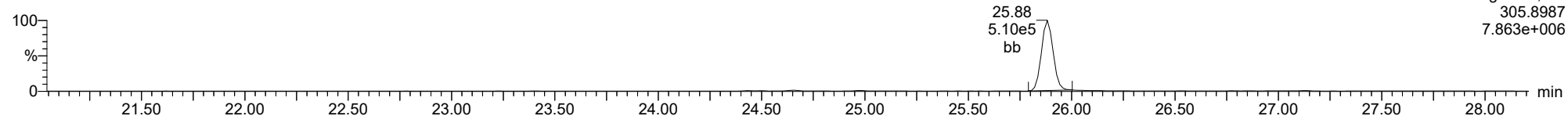
23020108



F1:Voltage SIR,EI+  
303.9016  
6.008e+006

**2378-TCDF**

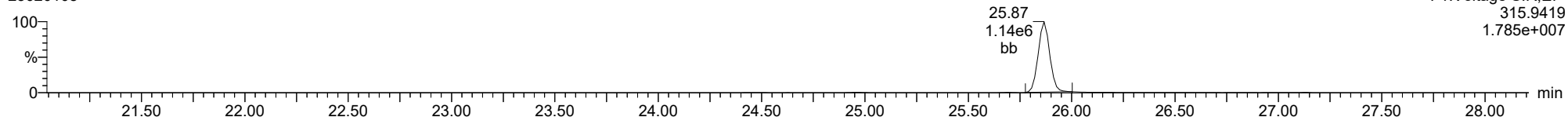
23020108



F1:Voltage SIR,EI+  
305.8987  
7.863e+006

**13C-2378-TCDF**

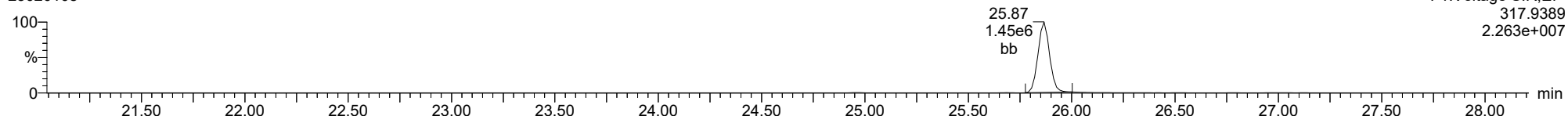
23020108



F1:Voltage SIR,EI+  
315.9419  
1.785e+007

**13C-2378-TCDF**

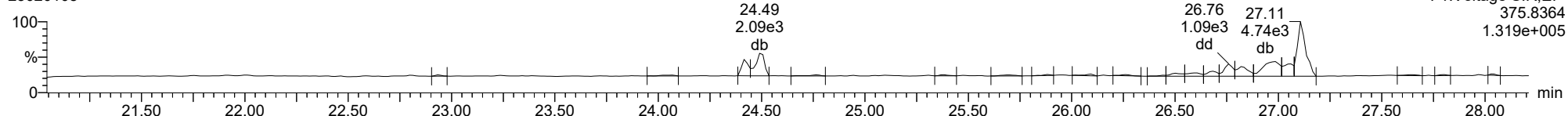
23020108



F1:Voltage SIR,EI+  
317.9389  
2.263e+007

**FUNCTION1 HXCDPE**

23020108

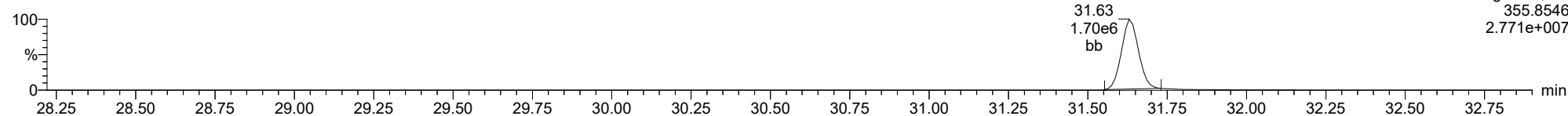


F1:Voltage SIR,EI+  
375.8364  
1.319e+005

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

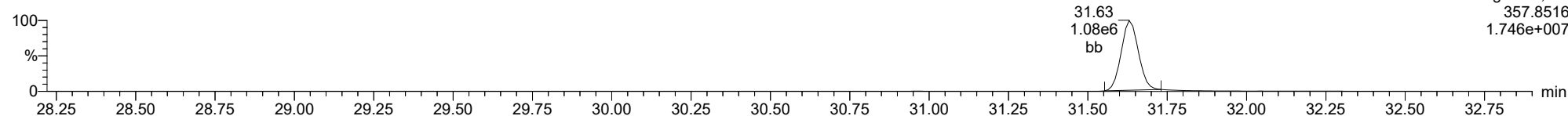
23020108



F2:Voltage SIR,EI+  
355.8546  
2.771e+007

**12378-PeCDD**

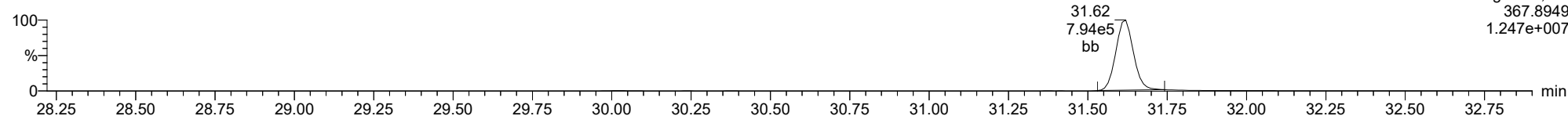
23020108



F2:Voltage SIR,EI+  
357.8516  
1.746e+007

**13C-12378-PeCDD**

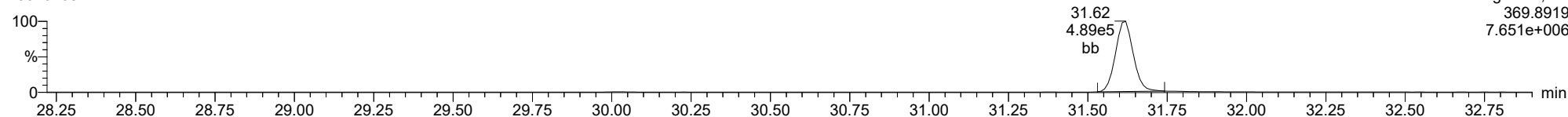
23020108



F2:Voltage SIR,EI+  
367.8949  
1.247e+007

**13C-12378-PeCDD**

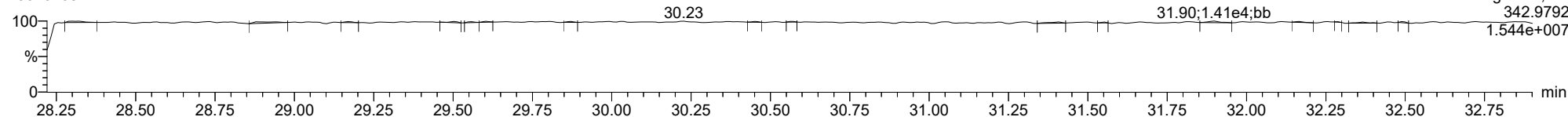
23020108



F2:Voltage SIR,EI+  
369.8919  
7.651e+006

**FUNCTION2 PFK**

23020108

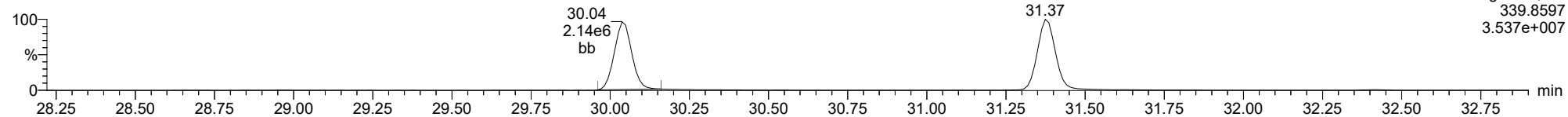


F2:Voltage SIR,EI+  
342.9792  
1.544e+007

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

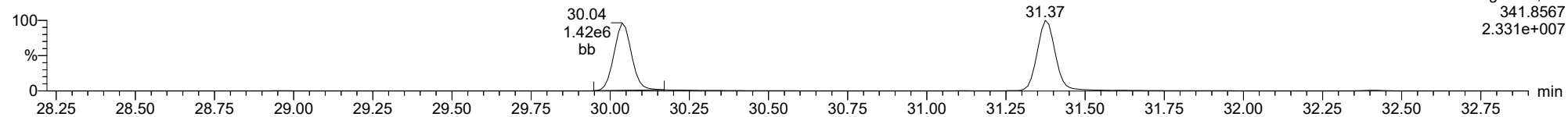
**12378-PeCDF**

23020108



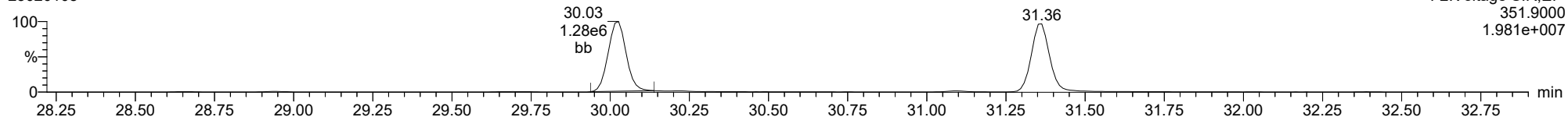
**12378-PeCDF**

23020108



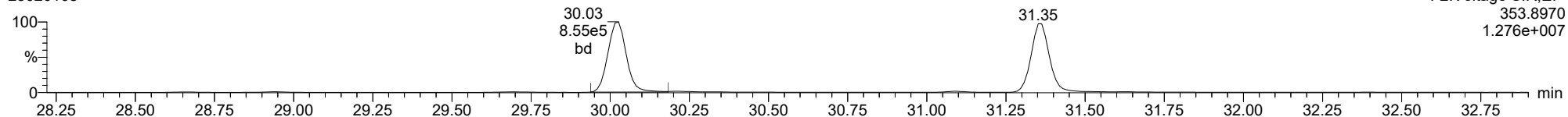
**13C-12378-PeCDF**

23020108



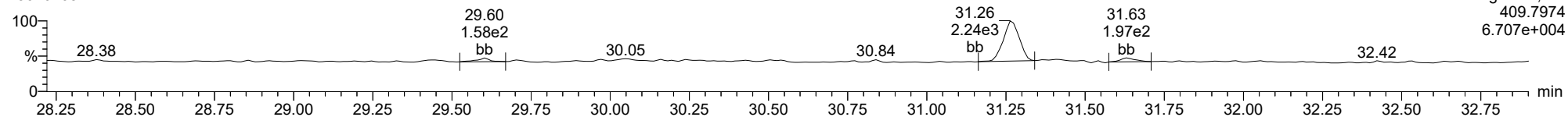
**13C-12378-PeCDF**

23020108



**FUNCTION2 HPCDPE**

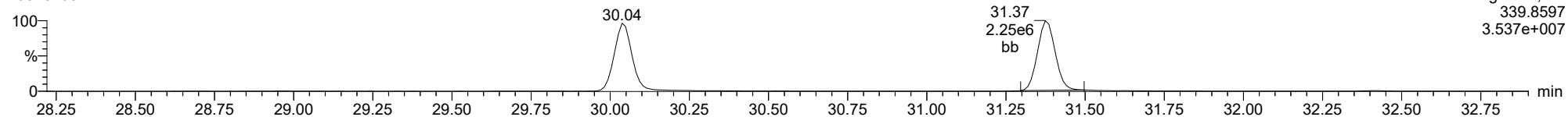
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

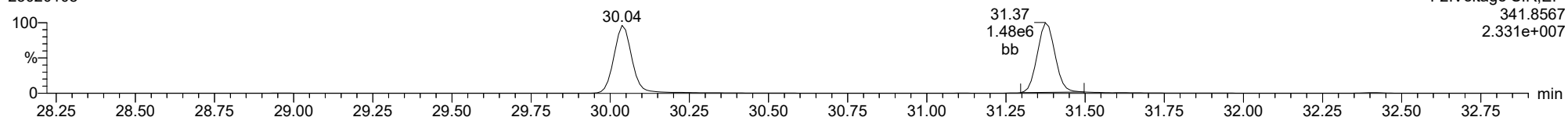
**23478-PeCDF**

23020108



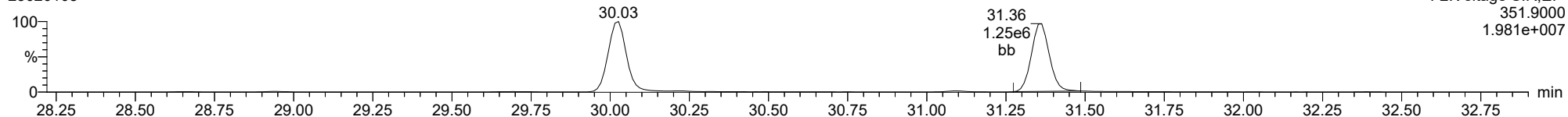
**23478-PeCDF**

23020108



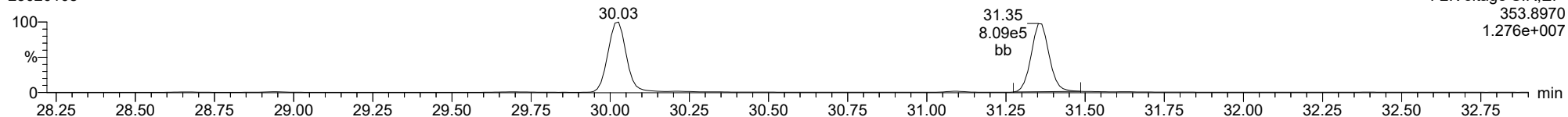
**13C-23478-PeCDF**

23020108



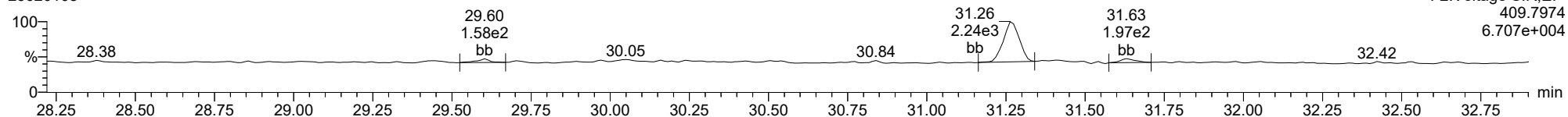
**13C-23478-PeCDF**

23020108



**FUNCTION2 HPCDPE**

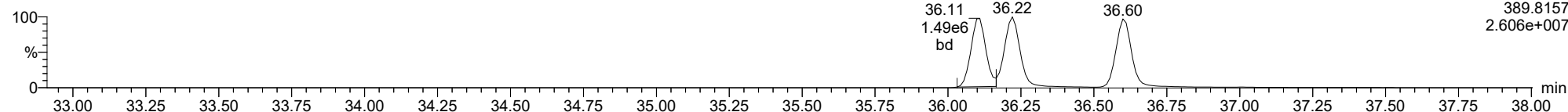
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

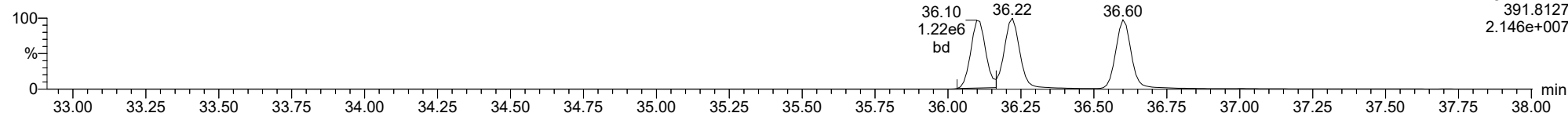
**123478-HxCDD**

23020108



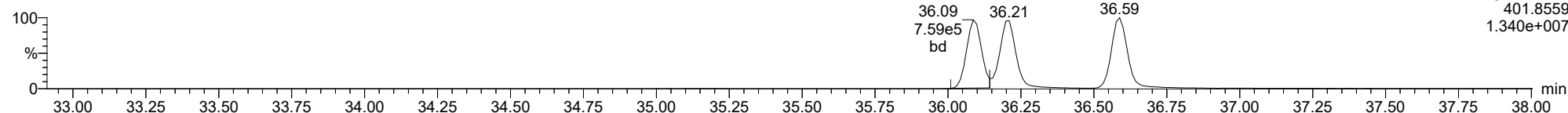
**123478-HxCDD**

23020108



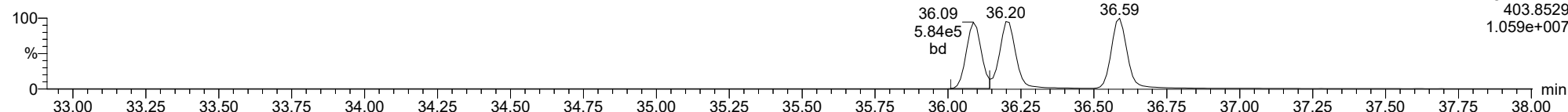
**13C-123478-HxCDD**

23020108



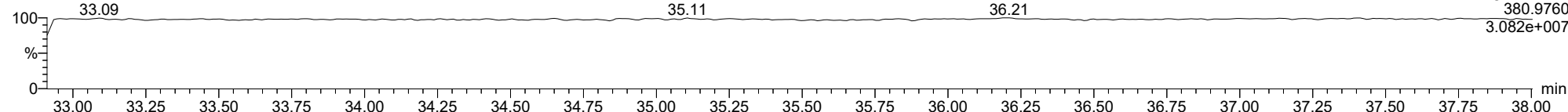
**13C-123478-HxCDD**

23020108



**FUNCTION3 PFK**

23020108

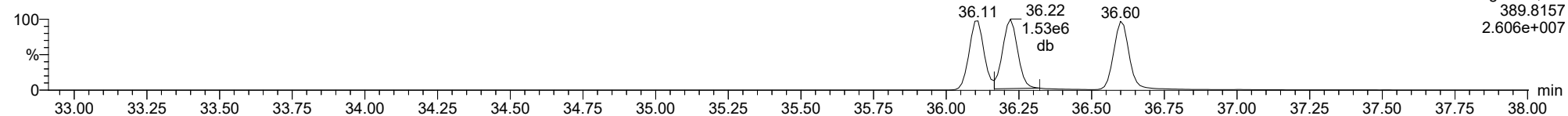




ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

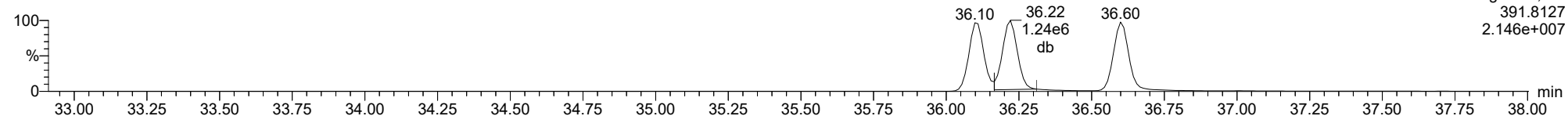
23020108



F3:Voltage SIR,EI+  
389.8157  
2.606e+007

**123678-HxCDD**

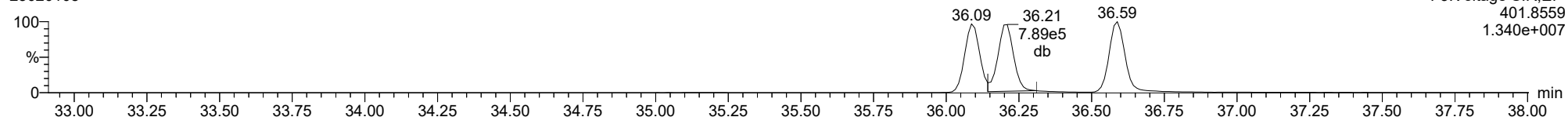
23020108



F3:Voltage SIR,EI+  
391.8127  
2.146e+007

**13C-123678-HxCDD**

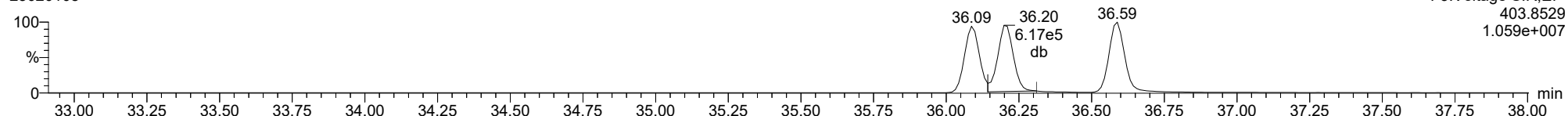
23020108



F3:Voltage SIR,EI+  
401.8559  
1.340e+007

**13C-123678-HxCDD**

23020108

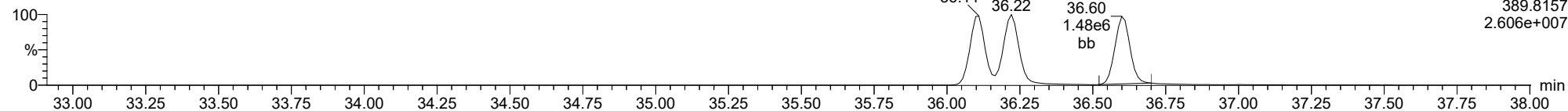


F3:Voltage SIR,EI+  
403.8529  
1.059e+007

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

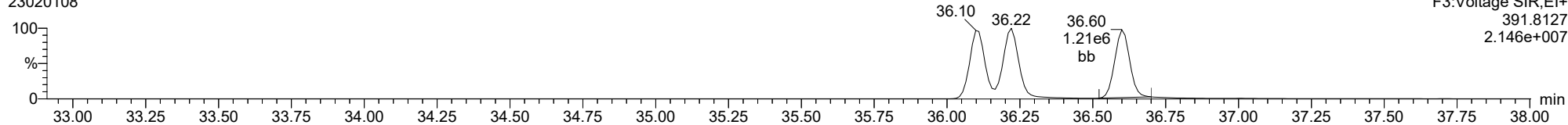
**123789-HxCDD**

23020108



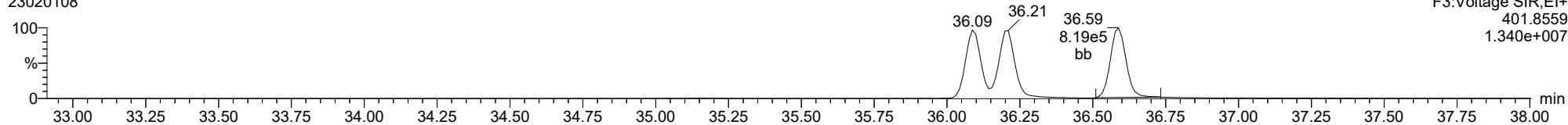
**123789-HxCDD**

23020108



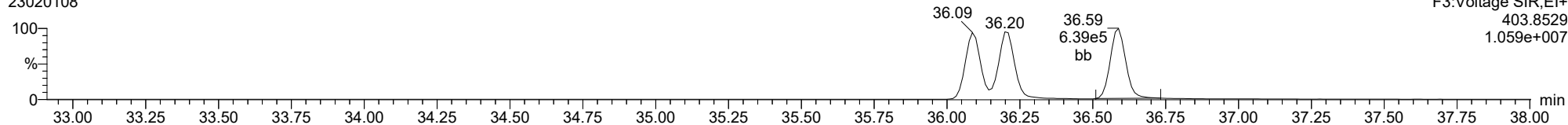
**13C-123789-HxCDD**

23020108



**13C-123789-HxCDD**

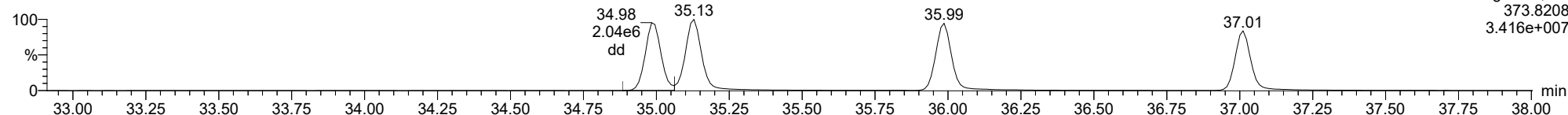
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

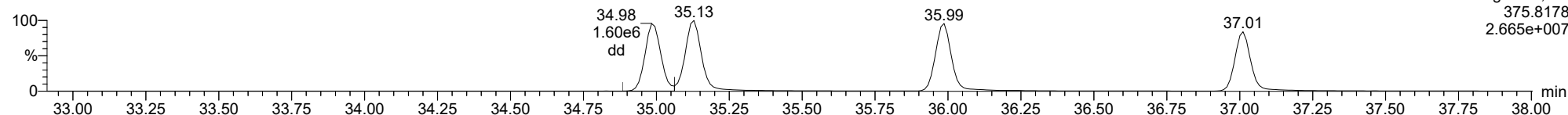
**123478-HxCDF**

23020108



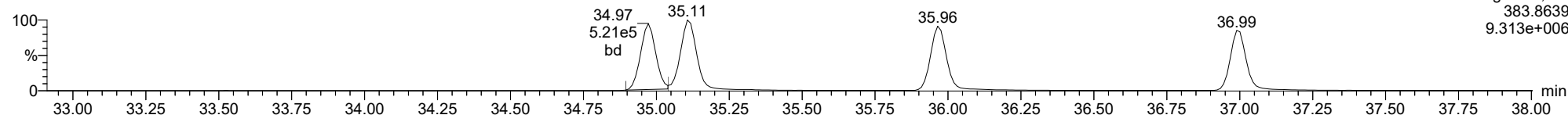
**123478-HxCDF**

23020108



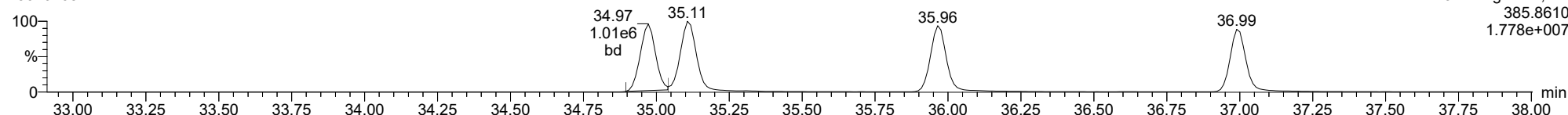
**13C-123478-HxCDF**

23020108



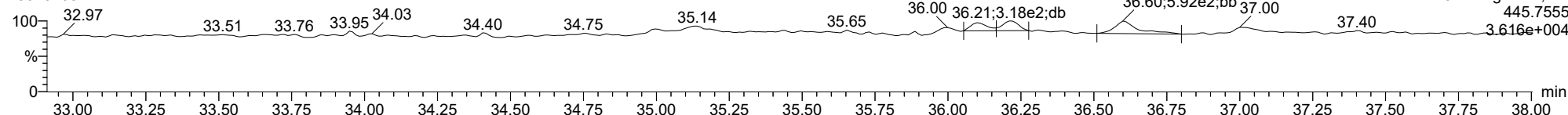
**13C-123478-HxCDF**

23020108



**FUNCTION3 OCDPE**

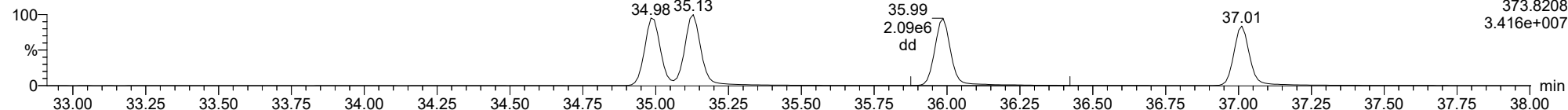
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

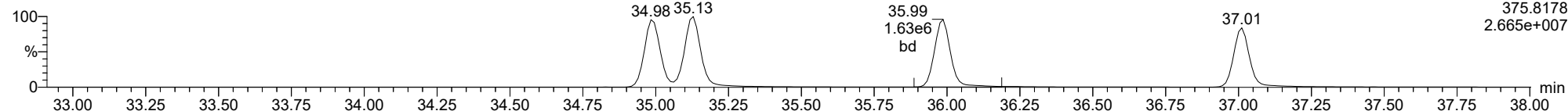
**234678-HxCDF**

23020108



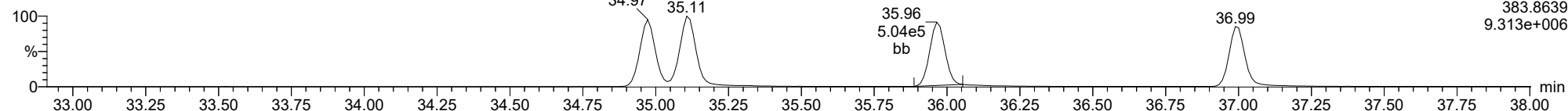
**234678-HxCDF**

23020108



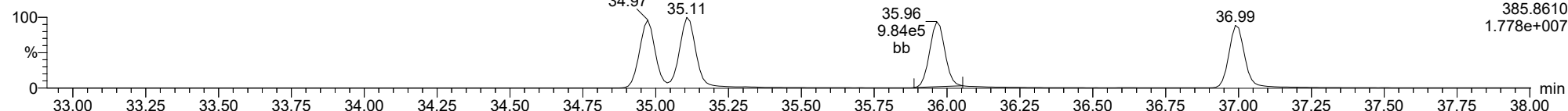
**13C-234678-HxCDF**

23020108



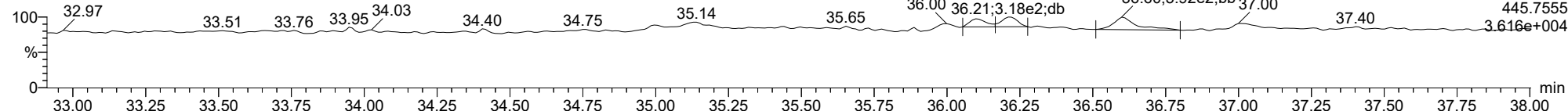
**13C-234678-HxCDF**

23020108



**FUNCTION3 OCDPE**

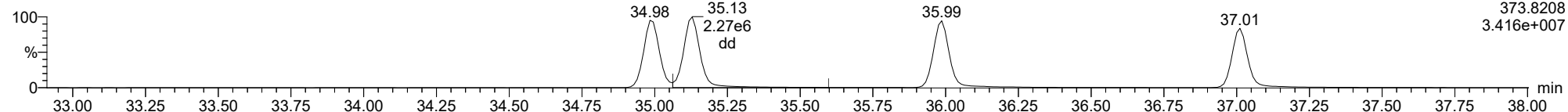
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

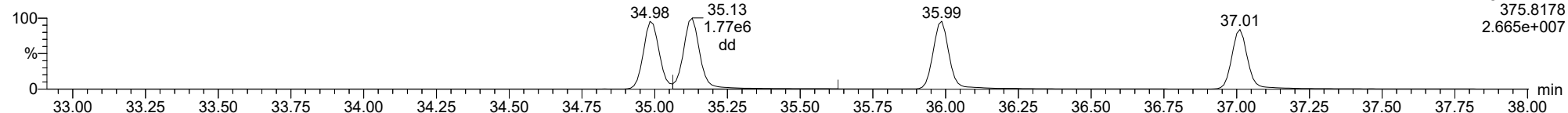
**123678-HxCDF**

23020108



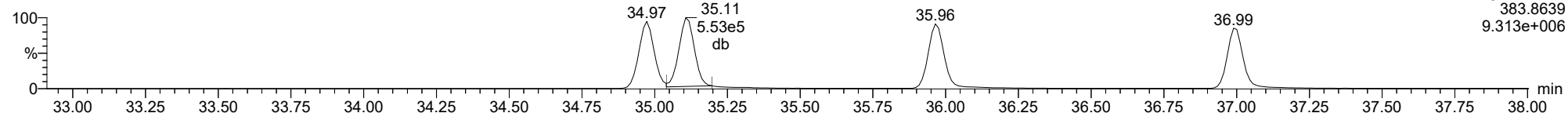
**123678-HxCDF**

23020108



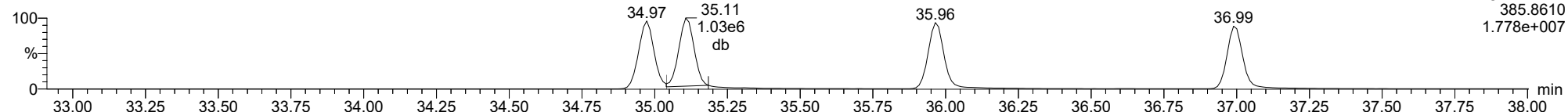
**13C-123678-HxCDF**

23020108



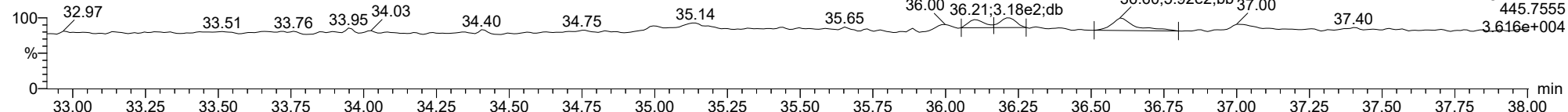
**13C-123678-HxCDF**

23020108



**FUNCTION3 OCDPE**

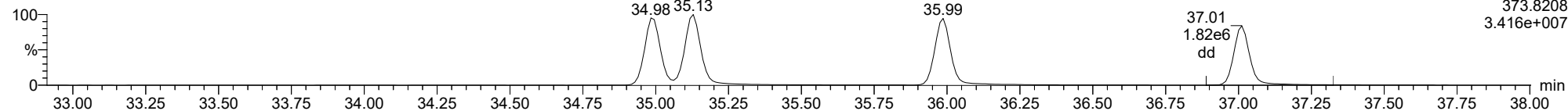
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

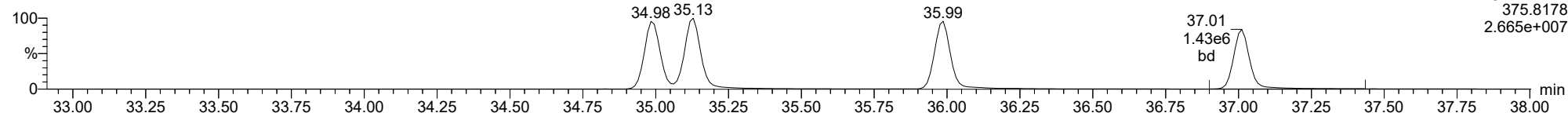
**123789-HxCDF**

23020108



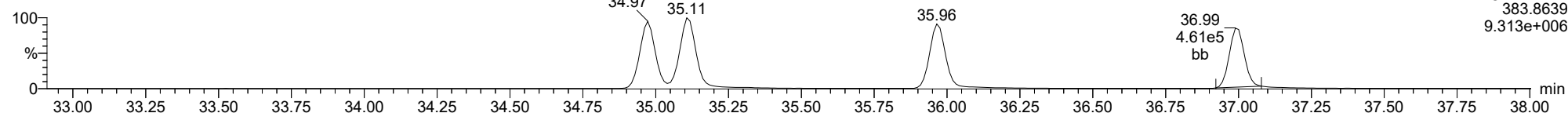
**123789-HxCDF**

23020108



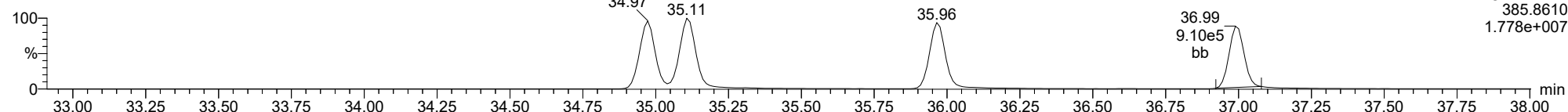
**13C-123789-HxCDF**

23020108



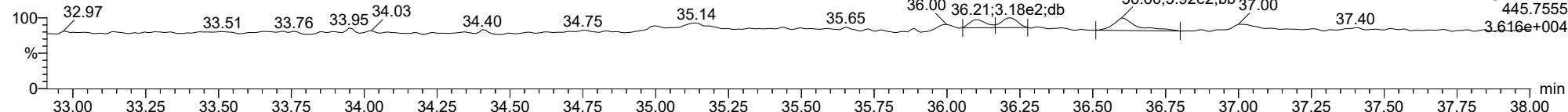
**13C-123789-HxCDF**

23020108



**FUNCTION3 OCDPE**

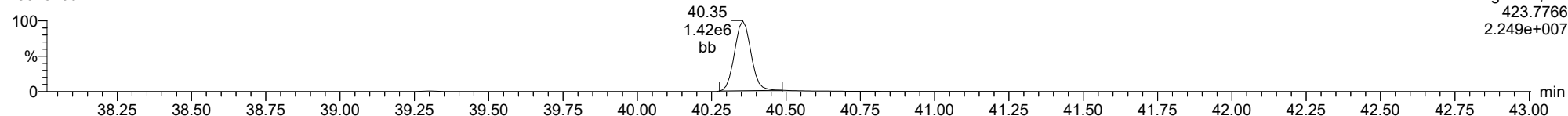
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

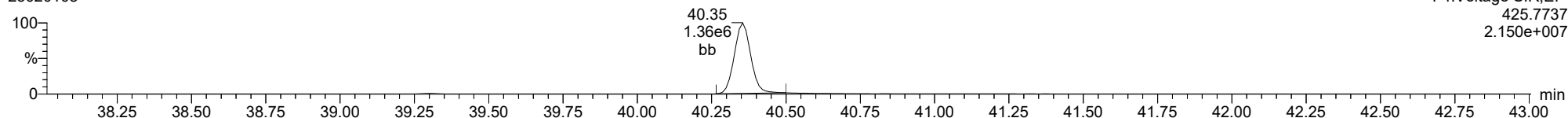
**1234678-HpCDD**

23020108



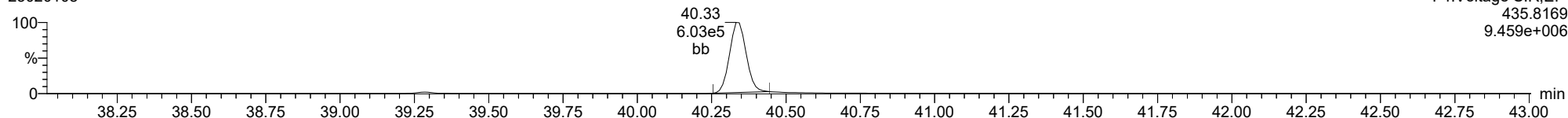
**1234678-HpCDD**

23020108



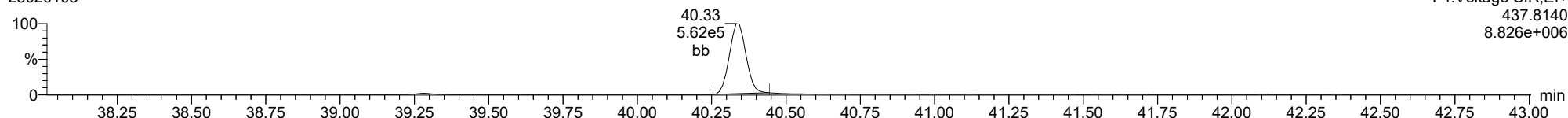
**13C-1234678-HpCDD**

23020108



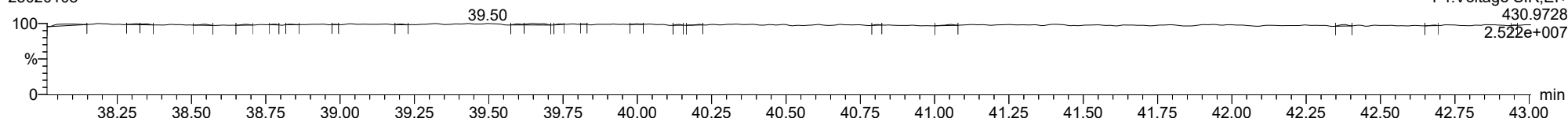
**13C-1234678-HpCDD**

23020108



**FUNCTION4 PFK**

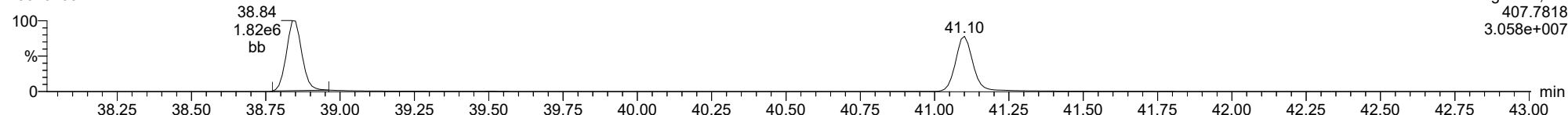
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

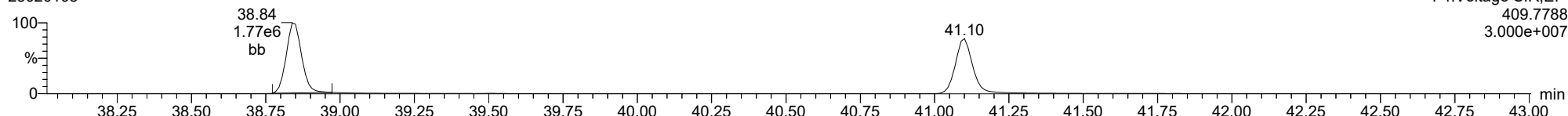
23020108



F4:Voltage SIR,El+  
407.7818  
3.058e+07

1234678-HpCDF

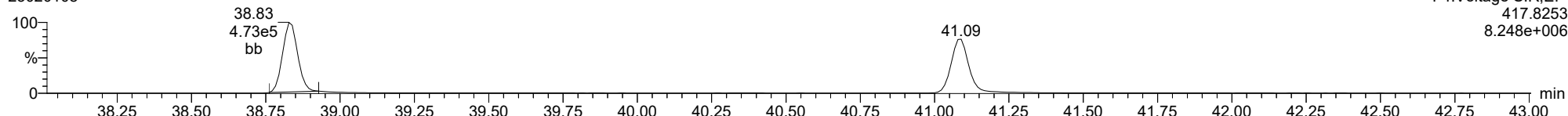
23020108



F4:Voltage SIR,El+  
409.7788  
3.000e+07

13C-1234678-HpCDF

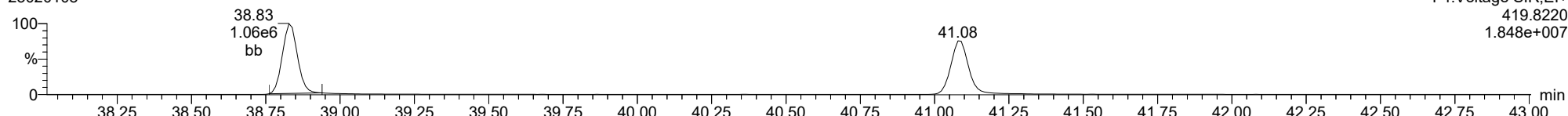
23020108



F4:Voltage SIR,El+  
417.8253  
8.248e+06

13C-1234678-HpCDF

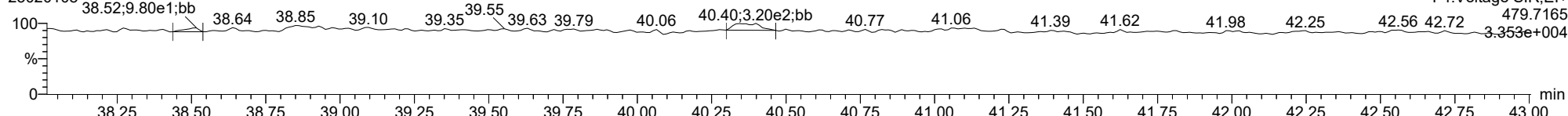
23020108



F4:Voltage SIR,El+  
419.8220  
1.848e+07

FUNCTION4 NCDPE

23020108



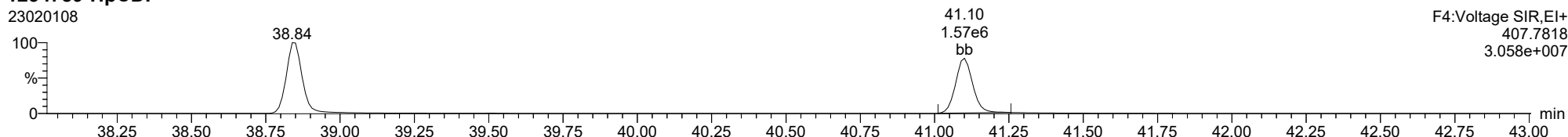
F4:Voltage SIR,El+  
479.7165  
3.353e+04



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

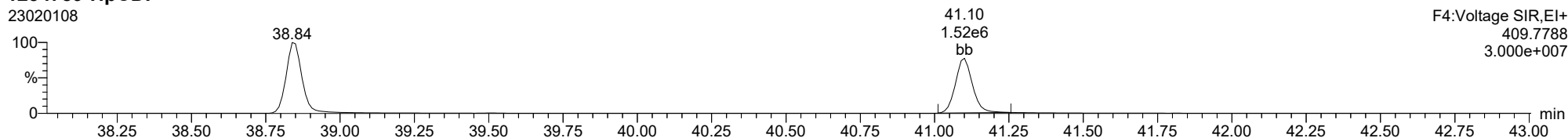
**1234789-HpCDF**

23020108



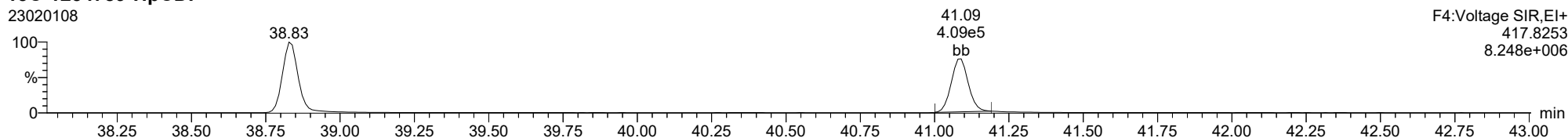
**1234789-HpCDF**

23020108



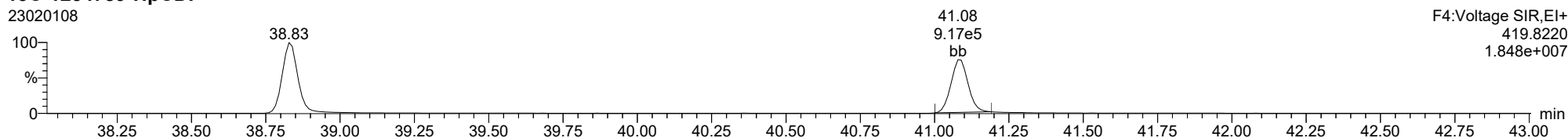
**13C-1234789-HpCDF**

23020108



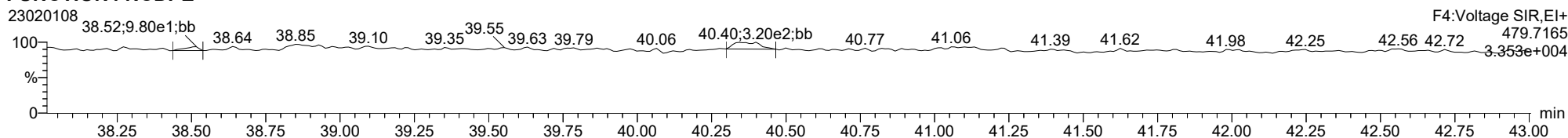
**13C-1234789-HpCDF**

23020108



**FUNCTION4 NCDPE**

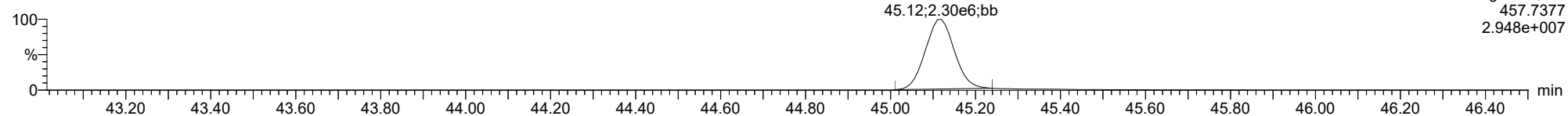
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

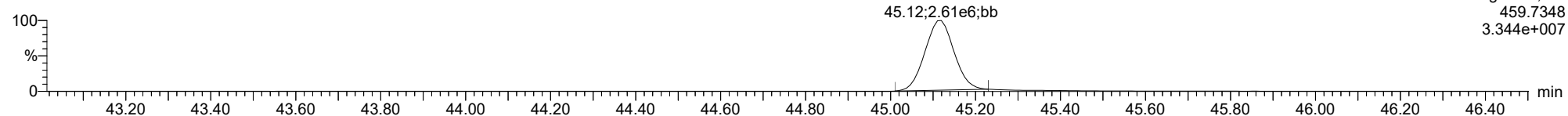
**OCDD**

23020108



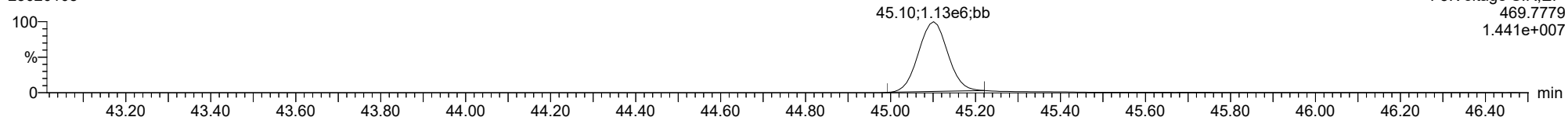
**OCDD**

23020108



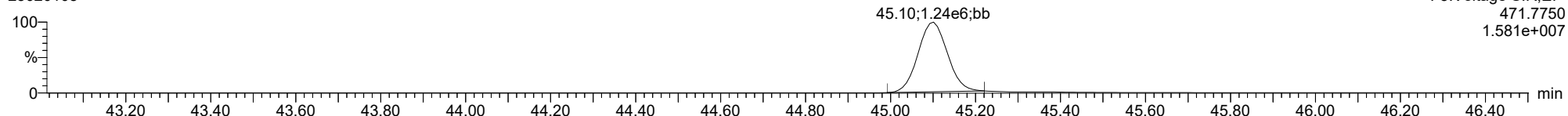
**13C-OCDD**

23020108



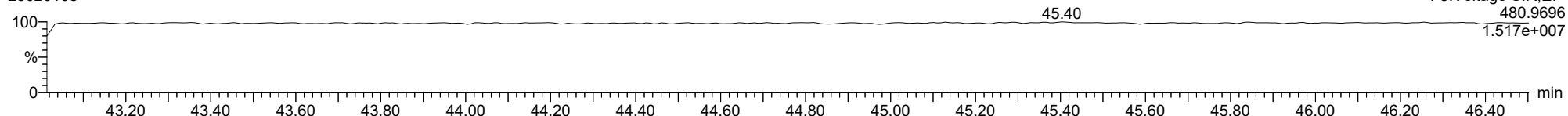
**13C-OCDD**

23020108



**FUNCTION5 PFK**

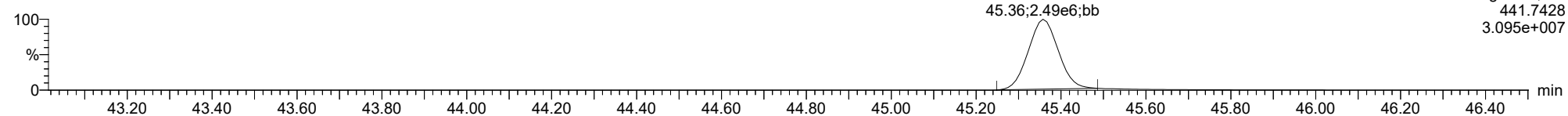
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

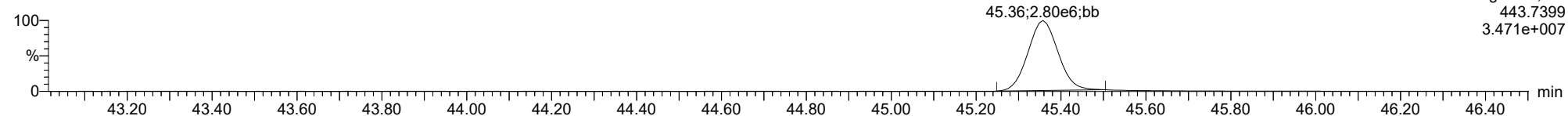
**OCDF**

23020108



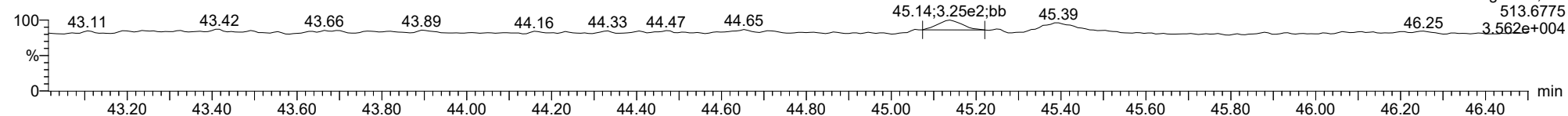
**OCDF**

23020108



**FUNCTION5 DCDPE**

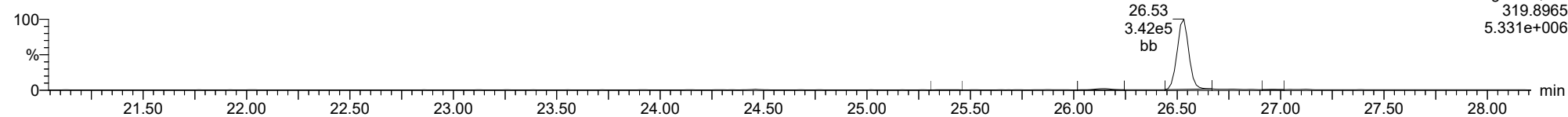
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

**Total-tetradioxins**

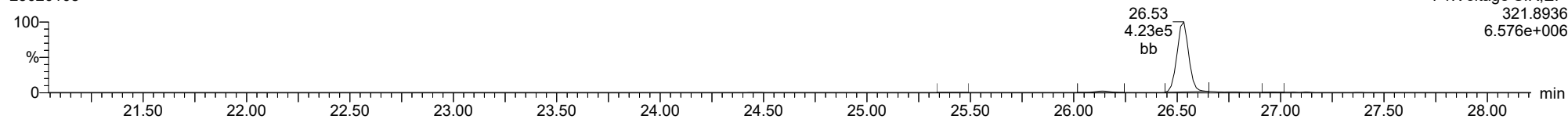
23020108



F1:Voltage SIR,EI+  
319.8965  
5.331e+006

**Total-tetradioxins**

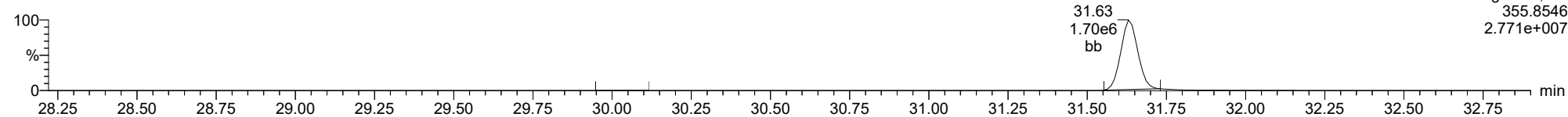
23020108



F1:Voltage SIR,EI+  
321.8936  
6.576e+006

**Total-pentadioxins**

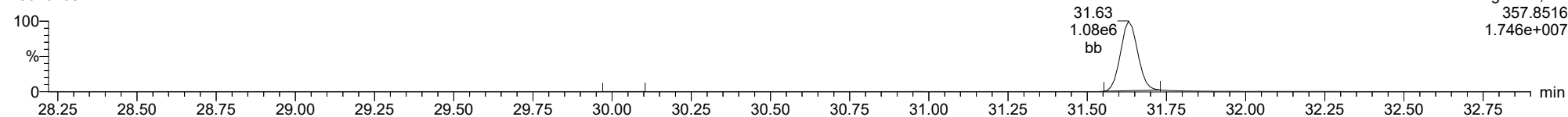
23020108



F2:Voltage SIR,EI+  
355.8546  
2.771e+007

**Total-pentadioxins**

23020108

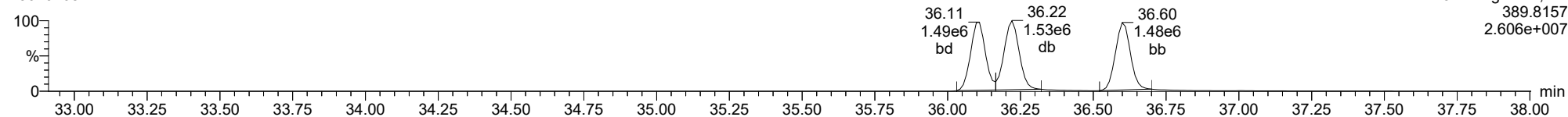


F2:Voltage SIR,EI+  
357.8516  
1.746e+007

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

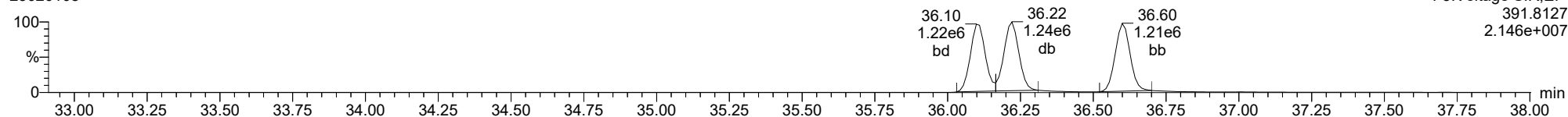
**Total-hexadioxins**

23020108



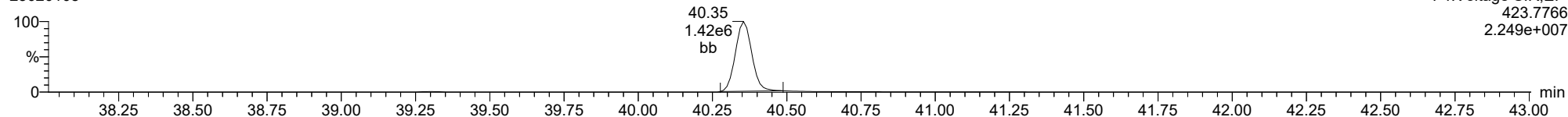
**Total-hexadioxins**

23020108



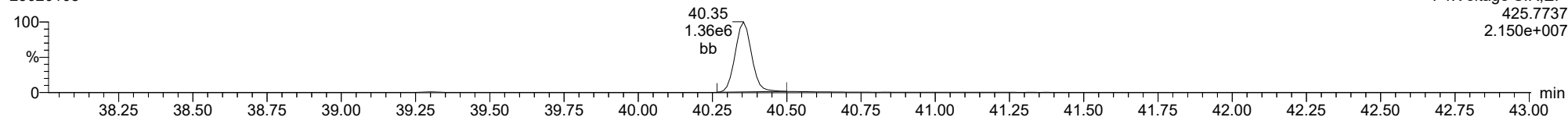
**Total-heptadioxins**

23020108



**Total-heptadioxins**

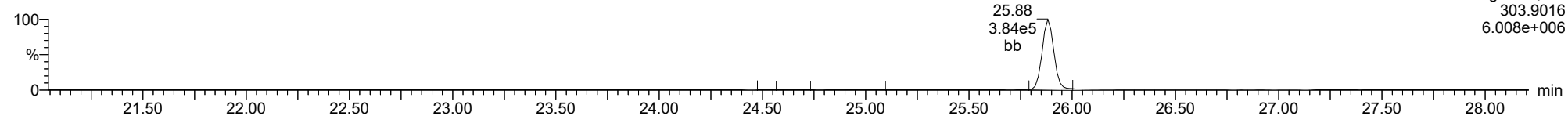
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

**Total-tetrafurans**

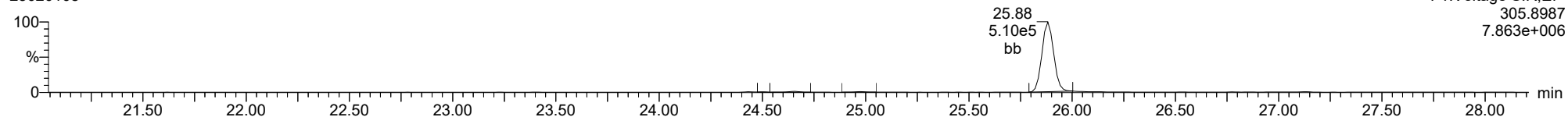
23020108



F1:Voltage SIR,EI+  
303.9016  
6.008e+006

**Total-tetrafurans**

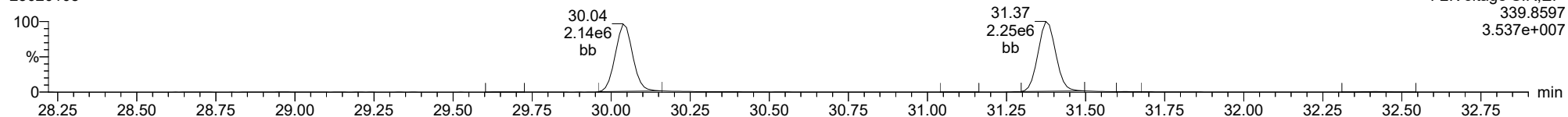
23020108



F1:Voltage SIR,EI+  
305.8987  
7.863e+006

**Total-pentafurans**

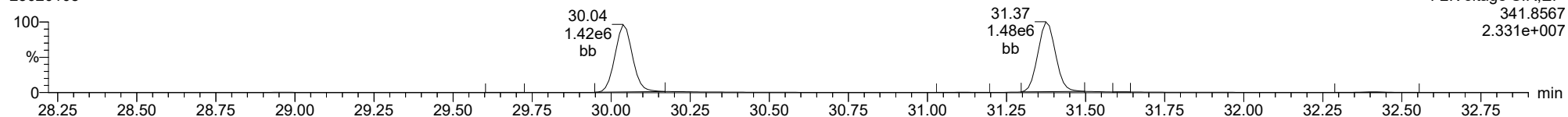
23020108



F2:Voltage SIR,EI+  
339.8597  
3.537e+007

**Total-pentafurans**

23020108

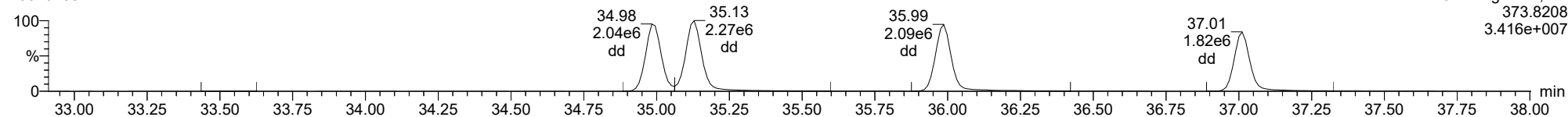


F2:Voltage SIR,EI+  
341.8567  
2.331e+007

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

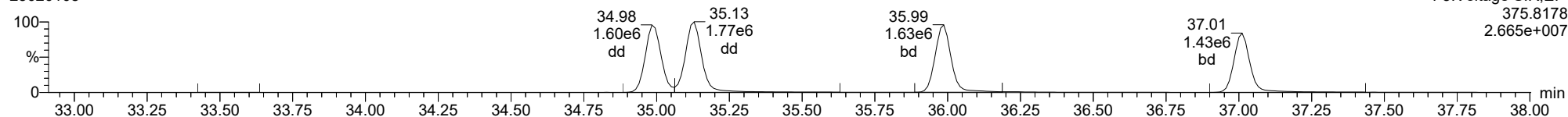
**Total-hexafurans**

23020108



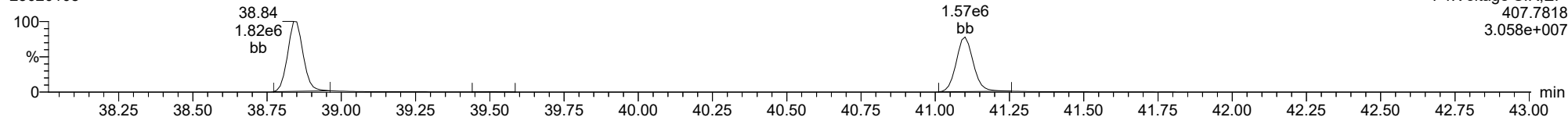
**Total-hexafurans**

23020108



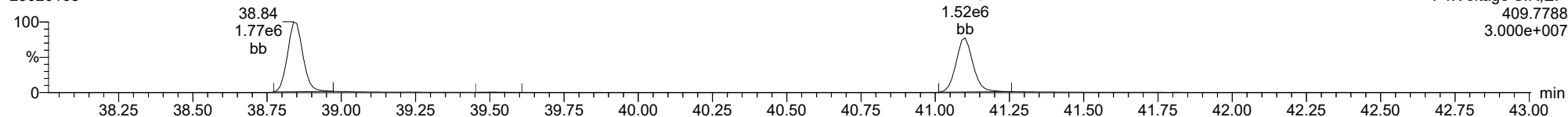
**Total-heptafurans**

23020108



**Total-heptafurans**

23020108



Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:38:07 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: 03 Feb 2023 10:33:40**

**ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.897	1.001	1.902e6	2.502e6	0.876	0.760	0.770	2083	2633	2.83e7	3.68e7	13592.2	13978.0	NO	bb	bb	198.739
12378-PeCDF	30.049	1.000	1.205e7	7.874e6	0.845	1.531	1.550	7373	5488	1.93e8	1.26e8	26224.5	23031.6	NO	bb	bb	994.981
23478-PeCDF	31.386	1.000	1.269e7	8.370e6	0.911	1.517	1.550	7373	5488	2.06e8	1.36e8	27965.2	24705.2	NO	bb	bb	1016.382
123478-HxCDF	34.995	1.000	1.141e7	8.950e6	1.182	1.275	1.240	3920	5169	1.84e8	1.47e8	46993.0	28370.7	NO	dd	dd	1029.340
234678-HxCDF	35.998	1.001	1.171e7	9.171e6	1.229	1.276	1.240	3920	5169	1.90e8	1.49e8	48596.8	28890.8	NO	dd	dd	1009.446
123678-HxCDF	35.140	1.001	1.235e7	9.894e6	1.248	1.248	1.240	3920	5169	1.94e8	1.54e8	49388.8	29696.3	NO	dd	dd	1025.687
123789-HxCDF	37.023	1.001	1.031e7	8.091e6	1.187	1.275	1.240	3920	5169	1.66e8	1.30e8	42476.6	25233.9	NO	bd	bd	998.443
1234678-HpCDF	38.850	1.000	1.032e7	1.012e7	1.204	1.019	1.050	8904	8155	1.75e8	1.74e8	19676.2	21311.7	NO	bb	bb	964.735
1234789-HpCDF	41.112	1.000	8.967e6	8.709e6	1.165	1.030	1.050	8904	8155	1.36e8	1.32e8	15298.2	16219.3	NO	bb	bb	993.722
OCDF	45.375	1.006	1.493e7	1.667e7	1.186	0.896	0.890	4510	4269	1.90e8	2.12e8	42161.0	49693.7	NO	bb	bb	1895.001
2378-TCDD	26.532	1.001	1.752e6	2.174e6	1.236	0.806	0.770	1459	2196	2.70e7	3.36e7	18498.5	15304.9	NO	bb	bb	198.710
12378-PeCDD	31.642	1.000	9.606e6	6.125e6	1.087	1.568	1.550	3423	1668	1.56e8	9.91e7	45448.5	59405.3	NO	bb	bb	1009.559
123478-HxCDD	36.120	1.001	8.528e6	7.016e6	0.987	1.215	1.240	3213	2854	1.40e8	1.15e8	43594.1	40358.9	NO	bd	bd	1032.837
123678-HxCDD	36.232	1.000	8.754e6	7.068e6	1.021	1.239	1.240	3213	2854	1.51e8	1.23e8	47081.5	43211.8	NO	db	db	969.556
123789-HxCDD	36.611	1.011	8.604e6	7.092e6	0.985	1.213	1.240	3213	2854	1.49e8	1.23e8	46396.6	43264.5	NO	bb	bb	1019.817
1234678-HpCDD	40.365	1.001	8.084e6	7.725e6	1.253	1.046	1.050	4704	6048	1.30e8	1.24e8	27631.4	20454.3	NO	bb	bb	955.606
OCDD	45.138	1.000	1.379e7	1.563e7	1.103	0.882	0.890	4246	3833	1.77e8	2.00e8	41633.2	52271.8	NO	bb	bb	1898.324
13C-2378-TCDF	25.867	1.007	1.117e6	1.412e6	1.768	0.791	0.770	2137	1536	1.68e7	2.15e7	7867.7	13974.0	NO	bb	bb	104.652
13C-12378-PeCDF	30.037	1.169	1.439e6	9.319e5	1.527	1.544	1.550	3190	2679	2.23e7	1.46e7	6993.2	5456.9	NO	bb	bb	113.578
13C-23478-PeCDF	31.375	1.221	1.384e6	8.910e5	1.466	1.553	1.550	3190	2679	2.11e7	1.37e7	6621.6	5099.2	NO	bb	bb	113.466
13C-123478-HxCDF	34.984	0.956	5.247e5	1.149e6	1.054	0.456	0.510	2046	3816	8.96e6	1.85e7	4377.9	4858.6	NO	bb	bd	95.236
13C-123678-HxCDF	35.118	0.960	5.447e5	1.193e6	1.080	0.456	0.510	2046	3816	9.54e6	1.96e7	4663.8	5131.1	NO	bb	db	96.456
13C-234678-HxCDF	35.976	0.983	5.724e5	1.111e6	1.014	0.515	0.510	2046	3816	9.48e6	1.86e7	4633.3	4871.3	NO	bb	bb	99.457
13C-123789-HxCDF	37.001	1.011	5.244e5	1.029e6	0.928	0.510	0.510	2046	3816	8.87e6	1.74e7	4335.4	4558.1	NO	bb	bb	100.353
13C-1234678-HpCDF	38.839	1.061	5.492e5	1.210e6	1.036	0.454	0.440	2607	3522	9.31e6	2.08e7	3570.6	5900.4	NO	bb	bb	101.771
13C-1234789-HpCDF	41.100	1.123	4.687e5	1.058e6	0.905	0.443	0.440	2607	3522	6.97e6	1.56e7	2673.2	4442.5	NO	bb	bb	101.106
13C-1234-TCDD	25.700	0.000	6.087e5	7.585e5	1.000	0.803	0.770	1970	1516	9.39e6	1.18e7	4765.4	7760.6	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	7.055e5	8.929e5	1.103	0.790	0.770	1970	1516	1.10e7	1.38e7	5597.9	9134.2	NO	bb	bb	106.005
13C-12378-PeCDD	31.631	1.231	8.888e5	5.452e5	0.914	1.630	1.550	1596	1437	1.37e7	8.34e6	8557.4	5803.5	NO	bb	bb	114.739
13C-123478-HxCDD	36.098	0.986	8.648e5	6.600e5	0.933	1.310	1.240	2021	1546	1.43e7	1.10e7	7083.3	7089.6	NO	bd	bd	97.968
13C-123678-HxCDD	36.221	0.990	8.909e5	7.079e5	0.965	1.258	1.240	2021	1546	1.49e7	1.18e7	7371.3	7606.4	NO	db	db	99.340
13C-1234678-HpCDD	40.343	1.102	6.795e5	6.413e5	0.782	1.059	1.050	2204	1955	1.08e7	1.02e7	4901.5	5191.4	NO	bb	bb	101.235
13C-OCDD	45.119	1.233	1.338e6	1.473e6	0.788	0.908	0.890	3227	1633	1.70e7	1.87e7	5253.8	11468.7	NO	bb	bb	213.757
13C-123789-HxCDD	36.600	0.000	9.379e5	7.305e5	1.000	1.284	1.240	2021	1546	1.55e7	1.24e7	7683.2	7996.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	3.390e6		1.233			2288		5.24e7		22881.9			bb		201.044



Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.064		0.770	2083	2633								
1289-TCDF					0.858		0.770	2083	2633								
13468-PECDF					1.013		1.550	1030	1210								
12389-PECDF					0.844		1.550	7373	5488								
123468-HXCDF					1.197		1.240	3920	5169								
1368-TCDD					1.084		0.770	1459	2196								
1289-TCDD					0.975		0.770	1459	2196								
12479-PECDD					1.837		1.550	3423	1668								
12389-PECDD					1.252		1.550	3423	1668								
124679-HXCDD					1.033		1.240	3213	2854								
1234679-HPCDD					1.286		1.050	4704	6048								
Total-tetrafurans			1.936e6		0.933			2083		2.88e7						202.080	
Total-penta1			0.000e0					1030		0.00e0							
Total-pentafurans			2.494e7		0.866			7373		4.02e8						2027.255	
Total-hexafurans			4.602e7		1.208			3920		7.37e8						4083.100	
Total-heptafurans			1.932e7		1.185			8904		3.12e8						1962.233	
Total-Furans			1.071e8		1.067			2083		1.67e9						10169.669	
Total-tetradoxins			1.793e6		1.099			1459		2.75e7						203.813	
Total-pentadoxins			9.627e6		1.392			3423		1.56e8						1011.307	
Total-hexadoxins			2.592e7		1.007			3213		4.41e8						3025.757	
Total-heptadoxins			8.084e6		1.269			4704		1.30e8						955.606	
Total-Dioxins			5.921e7		1.165			1459		9.31e8						7094.807	
Total-TEQ			1.664e8					1459		2.60e9						17264.476	
FUNCTION1 PFK			2.029e7					574211		2.20e8							
FUNCTION2 PFK			0.000e0					188547		0.00e0							
FUNCTION3 PFK			1.011e6					450058		2.54e7						0.000	
FUNCTION4 PFK			3.839e5					271819		2.65e6							
FUNCTION5 PFK			1.416e4					194883		8.19e5							
FUNCTION1 HXCD...			1.885e3					653		2.55e4						0.000	
FUNCTION1 HPCD...			1.625e3					761		2.22e4						0.000	
FUNCTION2 HPCD...			1.554e4					835		2.29e5						0.000	
FUNCTION3 OCDPE			7.873e3					764		8.87e4						0.000	
FUNCTION4 NCDPE			2.525e3					778		3.44e4						0.000	
FUNCTION5 DCDPE			4.222e3					726		3.75e4						0.000	

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011CIH.qld  
 Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time  
 Printed: Friday, February 03, 2023 10:38:07 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**

**Calibration: 03 Feb 2023 10:33:40**

**ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.53	2.226e3	3.396e3	0.933	0.66	0.77	11.6	YES	NO	bb	bd	0.238
2	2378-TCDF	25.90	1.902e6	2.502e6	0.876	0.76	0.77	13592.2	YES	NO	bb	bb	198.739
3	Total-tetrafurans	25.72	1.842e3	2.753e3	0.933	0.67	0.77	10.6	YES	NO	bb	bb	0.195
4	Total-tetrafurans	24.97	1.224e4	1.625e4	0.933	0.75	0.77	91.6	YES	NO	db	dd	1.208
5	Total-tetrafurans	24.66	1.707e4	2.304e4	0.933	0.74	0.77	124.7	YES	NO	bd	dd	1.700

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.97	3.816e4	2.465e4	0.866	1.55	1.55	67.9	YES	NO	bb	bb	3.121
2	Total-pentafurans	28.68	1.252e3	7.687e2	0.866	1.63	1.55	2.7	NO	NO	bb	bb	0.100
3	Total-pentafurans	31.64	2.450e4	1.763e4	0.866	1.39	1.55	52.8	YES	NO	bb	bb	2.093
4	23478-PeCDF	31.39	1.269e7	8.370e6	0.911	1.52	1.55	27965.2	YES	NO	bb	bb	1016.3...
5	Total-pentafurans	31.12	1.334e4	8.233e3	0.866	1.62	1.55	28.5	YES	NO	bb	bb	1.072
6	Total-pentafurans	30.35	1.243e4	7.715e3	0.866	1.61	1.55	30.7	YES	NO	bb	bb	1.001
7	12378-PeCDF	30.05	1.205e7	7.874e6	0.845	1.53	1.55	26224.5	YES	NO	bb	bb	994.981
8	Total-pentafurans	29.76	8.085e3	5.894e3	0.866	1.37	1.55	15.9	YES	NO	db	db	0.695
9	Total-pentafurans	29.68	6.865e3	3.988e3	0.866	1.72	1.55	14.4	YES	NO	bd	bd	0.539
10	Total-pentafurans	32.42	8.774e4	5.860e4	0.866	1.50	1.55	183.2	YES	NO	bb	bd	7.271

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

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**ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk****HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	35.00	1.141e7	8.950e6	1.182	1.28	1.24	46993.0	YES	NO	dd	dd	1029.3...
2	Total-hexafurans	34.84	1.696e4	1.325e4	1.208	1.28	1.24	72.5	YES	NO	bd	bd	1.504
3	Total-hexafurans	33.55	9.817e3	7.389e3	1.208	1.33	1.24	34.0	YES	NO	dd	db	0.857
4	123789-HxCDF	37.02	1.031e7	8.091e6	1.187	1.27	1.24	42476.6	YES	NO	bd	bd	998.443
5	Total-hexafurans	36.62	3.175e4	2.702e4	1.208	1.17	1.24	85.2	YES	NO	dd	db	2.926
6	Total-hexafurans	36.53	6.162e3	4.947e3	1.208	1.25	1.24	37.3	YES	NO	dd	dd	0.553
7	Total-hexafurans	36.23	1.664e5	1.218e5	1.208	1.37	1.24	331.3	YES	NO	dd	dd	14.345
8	234678-HxCDF	36.00	1.171e7	9.171e6	1.229	1.28	1.24	48596.8	YES	NO	dd	dd	1009.4...
9	123678-HxCDF	35.14	1.235e7	9.894e6	1.248	1.25	1.24	49388.8	YES	NO	dd	dd	1025.6...

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.11	8.967e6	8.709e6	1.165	1.03	1.05	15298.2	YES	NO	bb	bb	993.722
2	Total-heptafurans	40.38	1.043e4	1.014e4	1.185	1.03	1.05	14.2	YES	NO	bb	bb	1.057
3	Total-heptafurans	39.52	2.112e4	2.199e4	1.185	0.96	1.05	42.5	YES	NO	bb	bb	2.215
4	Total-heptafurans	39.26	5.058e3	4.749e3	1.185	1.07	1.05	11.5	YES	NO	bb	bb	0.504
5	1234678-HpCDF	38.85	1.032e7	1.012e7	1.204	1.02	1.05	19676.2	YES	NO	bb	bb	964.735

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

## Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.53	2.226e3	3.396e3	0.933	0.66	0.77	11.6	YES	NO	bb	bd	0.238
2	2378-TCDF	25.90	1.902e6	2.502e6	0.876	0.76	0.77	13592.2	YES	NO	bb	bb	198.739
3	Total-tetrafurans	25.72	1.842e3	2.753e3	0.933	0.67	0.77	10.6	YES	NO	bb	bb	0.195
4	Total-tetrafurans	24.97	1.224e4	1.625e4	0.933	0.75	0.77	91.6	YES	NO	db	dd	1.208
5	Total-tetrafurans	24.66	1.707e4	2.304e4	0.933	0.74	0.77	124.7	YES	NO	bd	dd	1.700
6	Total-pentafurans	28.97	3.816e4	2.465e4	0.866	1.55	1.55	67.9	YES	NO	bb	bb	3.121
7	Total-pentafurans	28.68	1.252e3	7.687e2	0.866	1.63	1.55	2.7	NO	NO	bb	bb	0.100
8	Total-pentafurans	31.64	2.450e4	1.763e4	0.866	1.39	1.55	52.8	YES	NO	bb	bb	2.093
9	23478-PeCDF	31.39	1.269e7	8.370e6	0.911	1.52	1.55	27965.2	YES	NO	bb	bb	1016.3...
10	Total-pentafurans	31.12	1.334e4	8.233e3	0.866	1.62	1.55	28.5	YES	NO	bb	bb	1.072
11	Total-pentafurans	30.35	1.243e4	7.715e3	0.866	1.61	1.55	30.7	YES	NO	bb	bb	1.001
12	12378-PeCDF	30.05	1.205e7	7.874e6	0.845	1.53	1.55	26224.5	YES	NO	bb	bb	994.981
13	Total-pentafurans	29.76	8.085e3	5.894e3	0.866	1.37	1.55	15.9	YES	NO	db	db	0.695
14	Total-pentafurans	29.68	6.865e3	3.988e3	0.866	1.72	1.55	14.4	YES	NO	bd	bd	0.539
15	Total-pentafurans	32.42	8.774e4	5.860e4	0.866	1.50	1.55	183.2	YES	NO	bb	bd	7.271
16	123478-HxCDF	35.00	1.141e7	8.950e6	1.182	1.28	1.24	46993.0	YES	NO	dd	dd	1029.3...
17	Total-hexafurans	34.84	1.696e4	1.325e4	1.208	1.28	1.24	72.5	YES	NO	bd	bd	1.504
18	Total-hexafurans	33.55	9.817e3	7.389e3	1.208	1.33	1.24	34.0	YES	NO	dd	db	0.857
19	123789-HxCDF	37.02	1.031e7	8.091e6	1.187	1.27	1.24	42476.6	YES	NO	bd	bd	998.443
20	Total-hexafurans	36.62	3.175e4	2.702e4	1.208	1.17	1.24	85.2	YES	NO	dd	db	2.926
21	Total-hexafurans	36.53	6.162e3	4.947e3	1.208	1.25	1.24	37.3	YES	NO	dd	dd	0.553
22	Total-hexafurans	36.23	1.664e5	1.218e5	1.208	1.37	1.24	331.3	YES	NO	dd	dd	14.345
23	234678-HxCDF	36.00	1.171e7	9.171e6	1.229	1.28	1.24	48596.8	YES	NO	dd	dd	1009.4...
24	123678-HxCDF	35.14	1.235e7	9.894e6	1.248	1.25	1.24	49388.8	YES	NO	dd	dd	1025.6...
25	1234789-HpCDF	41.11	8.967e6	8.709e6	1.165	1.03	1.05	15298.2	YES	NO	bb	bb	993.722
26	Total-heptafurans	40.38	1.043e4	1.014e4	1.185	1.03	1.05	14.2	YES	NO	bb	bb	1.057
27	Total-heptafurans	39.52	2.112e4	2.199e4	1.185	0.96	1.05	42.5	YES	NO	bb	bb	2.215
28	Total-heptafurans	39.26	5.058e3	4.749e3	1.185	1.07	1.05	11.5	YES	NO	bb	bb	0.504
29	1234678-HpCDF	38.85	1.032e7	1.012e7	1.204	1.02	1.05	19676.2	YES	NO	bb	bb	964.735
30	OCDF	45.38	1.493e7	1.667e7	1.186	0.90	0.89	42161.0	YES	NO	bb	bb	1895.0...

## TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	1.752e6	2.174e6	1.236	0.81	0.77	18498.5	YES	NO	bb	bb	198.710
2	Total-tetradoxins	26.15	3.848e4	4.731e4	1.099	0.81	0.77	307.2	YES	NO	bb	bb	4.885
3	Total-tetradoxins	25.40	1.655e3	2.163e3	1.099	0.76	0.77	18.7	YES	NO	bb	bb	0.217

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

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**ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk****PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.64	9.606e6	6.125e6	1.087	1.57	1.55	45448.5	YES	NO	bb	bb	1009.5...
2	Total-pentadioxins	30.97	1.150e4	6.979e3	1.392	1.65	1.55	51.3	YES	NO	bb	bd	0.925
3	Total-pentadioxins	30.41	1.660e3	1.100e3	1.392	1.51	1.55	6.6	YES	NO	db	db	0.138
4	Total-pentadioxins	30.05	7.800e3	5.854e3	1.392	1.33	1.55	33.3	YES	NO	bd	bd	0.684

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	34.88	8.900e2	7.985e2	1.007	1.11	1.24	4.5	YES	NO	bd	bd	0.107
2	Total-hexadioxins	37.15	6.920e2	5.023e2	1.007	1.38	1.24	4.7	YES	NO	db	bb	0.076
3	Total-hexadioxins	37.02	2.963e4	2.325e4	1.007	1.27	1.24	128.2	YES	NO	bd	bb	3.364
4	123789-HxCDD	36.61	8.604e6	7.092e6	0.985	1.21	1.24	46396.6	YES	NO	bb	bb	1019.8...
5	123678-HxCDD	36.23	8.754e6	7.068e6	1.021	1.24	1.24	47081.5	YES	NO	db	db	969.556
6	123478-HxCDD	36.12	8.528e6	7.016e6	0.987	1.22	1.24	43594.1	YES	NO	bd	bd	1032.8...

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	8.084e6	7.725e6	1.253	1.05	1.05	27631.4	YES	NO	bb	bb	955.606

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:38:07 Pacific Standard Time

**ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk****Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	1.752e6	2.174e6	1.236	0.81	0.77	18498.5	YES	NO	bb	bb	198.710
2	Total-tetradoxins	26.15	3.848e4	4.731e4	1.099	0.81	0.77	307.2	YES	NO	bb	bb	4.885
3	Total-tetradoxins	25.40	1.655e3	2.163e3	1.099	0.76	0.77	18.7	YES	NO	bb	bb	0.217
4	12378-PeCDD	31.64	9.606e6	6.125e6	1.087	1.57	1.55	45448.5	YES	NO	bb	bb	1009.5...
5	Total-pentadoxins	30.97	1.150e4	6.979e3	1.392	1.65	1.55	51.3	YES	NO	bb	bd	0.925
6	Total-pentadoxins	30.41	1.660e3	1.100e3	1.392	1.51	1.55	6.6	YES	NO	db	db	0.138
7	Total-pentadoxins	30.05	7.800e3	5.854e3	1.392	1.33	1.55	33.3	YES	NO	bd	bd	0.684
8	Total-hexadoxins	34.88	8.900e2	7.985e2	1.007	1.11	1.24	4.5	YES	NO	bd	bd	0.107
9	Total-hexadoxins	37.15	6.920e2	5.023e2	1.007	1.38	1.24	4.7	YES	NO	db	bb	0.076
10	Total-hexadoxins	37.02	2.963e4	2.325e4	1.007	1.27	1.24	128.2	YES	NO	bd	bb	3.364
11	123789-HxCDD	36.61	8.604e6	7.092e6	0.985	1.21	1.24	46396.6	YES	NO	bb	bb	1019.8...
12	123678-HxCDD	36.23	8.754e6	7.068e6	1.021	1.24	1.24	47081.5	YES	NO	db	db	969.556
13	123478-HxCDD	36.12	8.528e6	7.016e6	0.987	1.22	1.24	43594.1	YES	NO	bd	bd	1032.8...
14	1234678-HpCDD	40.37	8.084e6	7.725e6	1.253	1.05	1.05	27631.4	YES	NO	bb	bb	955.606
15	OCDD	45.14	1.379e7	1.563e7	1.103	0.88	0.89	41633.2	YES	NO	bb	bb	1898.3...

## Quantify Totals Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.53	2.226e3	3.396e3	0.933	0.66	0.77	11.6	YES	NO	bb	bd	0.238
2	2378-TCDF	25.90	1.902e6	2.502e6	0.876	0.76	0.77	13592.2	YES	NO	bb	bb	198.739
3	Total-tetrafurans	25.72	1.842e3	2.753e3	0.933	0.67	0.77	10.6	YES	NO	bb	bb	0.195
4	Total-tetrafurans	24.97	1.224e4	1.625e4	0.933	0.75	0.77	91.6	YES	NO	db	dd	1.208
5	Total-tetrafurans	24.66	1.707e4	2.304e4	0.933	0.74	0.77	124.7	YES	NO	bd	dd	1.700
6	Total-pentafurans	28.97	3.816e4	2.465e4	0.866	1.55	1.55	67.9	YES	NO	bb	bb	3.121
7	Total-pentafurans	28.68	1.252e3	7.687e2	0.866	1.63	1.55	2.7	NO	NO	bb	bb	0.100
8	Total-pentafurans	31.64	2.450e4	1.763e4	0.866	1.39	1.55	52.8	YES	NO	bb	bb	2.093
9	23478-PeCDF	31.39	1.269e7	8.370e6	0.911	1.52	1.55	27965.2	YES	NO	bb	bb	1016.3...
10	Total-pentafurans	31.12	1.334e4	8.233e3	0.866	1.62	1.55	28.5	YES	NO	bb	bb	1.072
11	Total-pentafurans	30.35	1.243e4	7.715e3	0.866	1.61	1.55	30.7	YES	NO	bb	bb	1.001
12	12378-PeCDF	30.05	1.205e7	7.874e6	0.845	1.53	1.55	26224.5	YES	NO	bb	bb	994.981
13	Total-pentafurans	29.76	8.085e3	5.894e3	0.866	1.37	1.55	15.9	YES	NO	db	db	0.695
14	Total-pentafurans	29.68	6.865e3	3.988e3	0.866	1.72	1.55	14.4	YES	NO	bd	bd	0.539
15	Total-pentafurans	32.42	8.774e4	5.860e4	0.866	1.50	1.55	183.2	YES	NO	bb	bd	7.271
16	123478-HxCDF	35.00	1.141e7	8.950e6	1.182	1.28	1.24	46993.0	YES	NO	dd	dd	1029.3...
17	Total-hexafurans	34.84	1.696e4	1.325e4	1.208	1.28	1.24	72.5	YES	NO	bd	bd	1.504
18	Total-hexafurans	33.55	9.817e3	7.389e3	1.208	1.33	1.24	34.0	YES	NO	dd	db	0.857
19	123789-HxCDF	37.02	1.031e7	8.091e6	1.187	1.27	1.24	42476.6	YES	NO	bd	bd	998.443
20	Total-hexafurans	36.62	3.175e4	2.702e4	1.208	1.17	1.24	85.2	YES	NO	dd	db	2.926
21	Total-hexafurans	36.53	6.162e3	4.947e3	1.208	1.25	1.24	37.3	YES	NO	dd	dd	0.553
22	Total-hexafurans	36.23	1.664e5	1.218e5	1.208	1.37	1.24	331.3	YES	NO	dd	dd	14.345
23	234678-HxCDF	36.00	1.171e7	9.171e6	1.229	1.28	1.24	48596.8	YES	NO	dd	dd	1009.4...
24	123678-HxCDF	35.14	1.235e7	9.894e6	1.248	1.25	1.24	49388.8	YES	NO	dd	dd	1025.6...
25	1234789-HpCDF	41.11	8.967e6	8.709e6	1.165	1.03	1.05	15298.2	YES	NO	bb	bb	993.722
26	Total-heptafurans	40.38	1.043e4	1.014e4	1.185	1.03	1.05	14.2	YES	NO	bb	bb	1.057
27	Total-heptafurans	39.52	2.112e4	2.199e4	1.185	0.96	1.05	42.5	YES	NO	bb	bb	2.215
28	Total-heptafurans	39.26	5.058e3	4.749e3	1.185	1.07	1.05	11.5	YES	NO	bb	bb	0.504
29	1234678-HpCDF	38.85	1.032e7	1.012e7	1.204	1.02	1.05	19676.2	YES	NO	bb	bb	964.735
30	OCDF	45.38	1.493e7	1.667e7	1.186	0.90	0.89	42161.0	YES	NO	bb	bb	1895.0...
31	2378-TCDD	26.53	1.752e6	2.174e6	1.236	0.81	0.77	18498.5	YES	NO	bb	bb	198.710
32	Total-tetradioxins	26.15	3.848e4	4.731e4	1.099	0.81	0.77	307.2	YES	NO	bb	bb	4.885
33	Total-tetradioxins	25.40	1.655e3	2.163e3	1.099	0.76	0.77	18.7	YES	NO	bb	bb	0.217
34	12378-PeCDD	31.64	9.606e6	6.125e6	1.087	1.57	1.55	45448.5	YES	NO	bb	bb	1009.5...
35	Total-pentadioxins	30.97	1.150e4	6.979e3	1.392	1.65	1.55	51.3	YES	NO	bb	bd	0.925
36	Total-pentadioxins	30.41	1.660e3	1.100e3	1.392	1.51	1.55	6.6	YES	NO	db	db	0.138
37	Total-pentadioxins	30.05	7.800e3	5.854e3	1.392	1.33	1.55	33.3	YES	NO	bd	bd	0.684

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk****TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-hexadioxins	34.88	8.900e2	7.985e2	1.007	1.11	1.24	4.5	YES	NO	bd	bd	0.107
39	Total-hexadioxins	37.15	6.920e2	5.023e2	1.007	1.38	1.24	4.7	YES	NO	db	bb	0.076
40	Total-hexadioxins	37.02	2.963e4	2.325e4	1.007	1.27	1.24	128.2	YES	NO	bd	bb	3.364
41	123789-HxCDD	36.61	8.604e6	7.092e6	0.985	1.21	1.24	46396.6	YES	NO	bb	bb	1019.8...
42	123678-HxCDD	36.23	8.754e6	7.068e6	1.021	1.24	1.24	47081.5	YES	NO	db	db	969.556
43	123478-HxCDD	36.12	8.528e6	7.016e6	0.987	1.22	1.24	43594.1	YES	NO	bd	bd	1032.8...
44	1234678-HpCDD	40.37	8.084e6	7.725e6	1.253	1.05	1.05	27631.4	YES	NO	bb	bb	955.606
45	OCDD	45.14	1.379e7	1.563e7	1.103	0.88	0.89	41633.2	YES	NO	bb	bb	1898.3...



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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.86	8.873e5					21.2	YES		dd		
2	FUNCTION1 PFK	21.80	7.665e5					22.5	YES		dd		
3	FUNCTION1 PFK	21.74	1.019e6					23.9	YES		dd		
4	FUNCTION1 PFK	21.59	1.959e6					26.2	YES		dd		
5	FUNCTION1 PFK	21.53	6.962e5					27.3	YES		dd		
6	FUNCTION1 PFK	21.47	1.211e6					28.6	YES		dd		
7	FUNCTION1 PFK	21.41	1.009e6					29.4	YES		dd		
8	FUNCTION1 PFK	21.13	5.872e6					34.2	YES		bd		
9	FUNCTION1 PFK	23.67	5.720e3					0.4	NO		bb		
10	FUNCTION1 PFK	23.28	9.896e3					0.7	NO		bb		
11	FUNCTION1 PFK	23.24	1.090e4					0.7	NO		bb		
12	FUNCTION1 PFK	23.16	1.031e4					0.6	NO		bb		
13	FUNCTION1 PFK	22.96	3.707e4					1.5	NO		db		
14	FUNCTION1 PFK	22.84	1.630e5					3.4	YES		dd		
15	FUNCTION1 PFK	22.72	3.257e5					5.8	YES		dd		
16	FUNCTION1 PFK	22.59	5.378e5					8.3	YES		dd		
17	FUNCTION1 PFK	22.53	8.039e5					8.9	YES		dd		
18	FUNCTION1 PFK	22.37	3.709e5					11.1	YES		dd		
19	FUNCTION1 PFK	22.31	5.024e5					12.0	YES		dd		
20	FUNCTION1 PFK	22.18	9.225e5					14.7	YES		dd		
21	FUNCTION1 PFK	22.12	3.970e5					15.8	YES		dd		
22	FUNCTION1 PFK	22.07	7.082e5					16.9	YES		dd		
23	FUNCTION1 PFK	22.00	6.094e5					18.0	YES		dd		
24	FUNCTION1 PFK	21.94	6.575e5					19.5	YES		dd		
25	FUNCTION1 PFK	26.06	4.194e4					1.5	NO		bb		
26	FUNCTION1 PFK	25.69	3.568e4					1.2	NO		bb		
27	FUNCTION1 PFK	25.56	8.323e3					0.5	NO		bb		
28	FUNCTION1 PFK	25.49	1.374e4					0.7	NO		bb		
29	FUNCTION1 PFK	25.10	2.036e4					1.0	NO		db		
30	FUNCTION1 PFK	25.02	2.247e4					1.0	NO		bd		
31	FUNCTION1 PFK	24.96	3.286e4					1.5	NO		db		
32	FUNCTION1 PFK	24.90	1.152e4					0.7	NO		bd		
33	FUNCTION1 PFK	24.84	1.639e4					1.0	NO		bb		
34	FUNCTION1 PFK	24.78	2.451e4					1.1	NO		db		
35	FUNCTION1 PFK	24.72	2.714e4					1.2	NO		bd		
36	FUNCTION1 PFK	24.55	3.918e3					0.5	NO		bb		
37	FUNCTION1 PFK	24.37	3.551e4					1.1	NO		bb		

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	24.01	2.091e4					0.9	NO		bb		
39	FUNCTION1 PFK	23.87	1.925e4					0.9	NO		db		
40	FUNCTION1 PFK	23.80	1.436e4					0.7	NO		bd		
41	FUNCTION1 PFK	27.74	4.148e4					1.2	NO		bb		
42	FUNCTION1 PFK	27.61	1.687e4					0.9	NO		bb		
43	FUNCTION1 PFK	27.36	2.823e4					1.3	NO		bb		
44	FUNCTION1 PFK	27.23	1.221e4					0.7	NO		bb		
45	FUNCTION1 PFK	27.11	2.196e4					0.8	NO		bb		
46	FUNCTION1 PFK	27.03	4.103e4					1.6	NO		db		
47	FUNCTION1 PFK	26.97	5.610e4					1.7	NO		dd		
48	FUNCTION1 PFK	26.86	5.847e4					1.3	NO		dd		
49	FUNCTION1 PFK	26.79	3.039e4					1.0	NO		bd		
50	FUNCTION1 PFK	26.68	1.065e4					0.6	NO		db		
51	FUNCTION1 PFK	26.64	8.185e3					0.7	NO		bd		
52	FUNCTION1 PFK	26.52	5.718e4					1.5	NO		bb		
53	FUNCTION1 PFK	26.40	1.679e4					0.7	NO		bb		
54	FUNCTION1 PFK	26.32	9.414e3					0.6	NO		bb		
55	FUNCTION1 PFK	26.18	2.178e4					1.0	NO		db		
56	FUNCTION1 PFK	26.14	1.887e4					1.1	NO		bd		
57	FUNCTION1 PFK	27.98	3.090e3					0.4	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.39	1.483e4					1.1	NO		db		0.000
2	FUNCTION3 PFK	34.35	2.582e4					1.3	NO		bd		0.000
3	FUNCTION3 PFK	34.26	2.395e4					1.1	NO		bb		0.000
4	FUNCTION3 PFK	34.15	1.551e4					1.0	NO		db		0.000
5	FUNCTION3 PFK	34.09	2.978e3					0.4	NO		bd		0.000
6	FUNCTION3 PFK	33.87	2.703e4					1.3	NO		db		0.000
7	FUNCTION3 PFK	33.76	2.846e4					1.4	NO		dd		0.000
8	FUNCTION3 PFK	33.70	9.928e3					0.9	NO		bd		0.000
9	FUNCTION3 PFK	33.66	2.430e3					0.5	NO		bb		0.000
10	FUNCTION3 PFK	33.47	5.051e4					0.9	NO		db		0.000
11	FUNCTION3 PFK	33.37	2.100e4					1.4	NO		bd		0.000
12	FUNCTION3 PFK	33.17	1.358e4					1.0	NO		db		0.000
13	FUNCTION3 PFK	33.13	8.975e3					0.9	NO		bd		0.000
14	FUNCTION3 PFK	35.80	8.372e3					0.8	NO		bb		0.000
15	FUNCTION3 PFK	35.71	2.156e4					1.3	NO		db		0.000
16	FUNCTION3 PFK	35.67	2.235e4					1.3	NO		bd		0.000
17	FUNCTION3 PFK	35.59	9.805e3					0.8	NO		bb		0.000
18	FUNCTION3 PFK	35.53	4.290e3					0.5	NO		bb		0.000
19	FUNCTION3 PFK	35.33	9.302e3					1.0	NO		db		0.000
20	FUNCTION3 PFK	35.30	1.165e4					1.0	NO		bd		0.000
21	FUNCTION3 PFK	35.25	5.126e3					0.7	NO		bb		0.000
22	FUNCTION3 PFK	35.14	1.556e4					0.8	NO		bb		0.000
23	FUNCTION3 PFK	35.10	5.550e3					0.6	NO		bb		0.000
24	FUNCTION3 PFK	35.06	1.779e3					0.4	NO		bb		0.000
25	FUNCTION3 PFK	34.91	4.171e3					0.5	NO		bb		0.000
26	FUNCTION3 PFK	34.86	1.499e4					1.4	NO		bb		0.000
27	FUNCTION3 PFK	34.81	6.634e3					0.6	NO		bb		0.000
28	FUNCTION3 PFK	34.58	1.500e4					1.1	NO		bb		0.000
29	FUNCTION3 PFK	34.53	1.395e3					0.3	NO		bb		0.000
30	FUNCTION3 PFK	37.08	1.137e4					1.0	NO		dd		0.000
31	FUNCTION3 PFK	36.99	7.110e4					2.2	NO		bd		0.000
32	FUNCTION3 PFK	36.92	2.314e3					0.5	NO		bb		0.000
33	FUNCTION3 PFK	36.88	7.392e3					0.6	NO		db		0.000
34	FUNCTION3 PFK	36.81	7.817e3					0.4	NO		bd		0.000
35	FUNCTION3 PFK	36.77	1.226e4					0.8	NO		bb		0.000
36	FUNCTION3 PFK	36.61	7.220e4					1.7	NO		bb		0.000
37	FUNCTION3 PFK	36.40	2.247e4					1.6	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	36.31	3.432e4					1.8	NO		db		0.000
39	FUNCTION3 PFK	36.24	7.551e4					2.3	NO		dd		0.000
40	FUNCTION3 PFK	36.14	2.231e4					1.5	NO		dd		0.000
41	FUNCTION3 PFK	36.11	4.985e4					2.3	NO		dd		0.000
42	FUNCTION3 PFK	36.04	1.685e4					1.5	NO		dd		0.000
43	FUNCTION3 PFK	36.00	8.077e4					2.9	NO		dd		0.000
44	FUNCTION3 PFK	35.92	1.428e4					1.1	NO		dd		0.000
45	FUNCTION3 PFK	35.89	1.321e4					0.9	NO		bd		0.000
46	FUNCTION3 PFK	37.91	1.145e4					1.0	NO		bb		0.000
47	FUNCTION3 PFK	37.83	2.759e4					1.3	NO		bb		0.000
48	FUNCTION3 PFK	37.75	1.842e3					0.4	NO		bb		0.000
49	FUNCTION3 PFK	37.67	1.331e3					0.3	NO		bb		0.000
50	FUNCTION3 PFK	37.58	1.178e4					0.7	NO		bb		0.000
51	FUNCTION3 PFK	37.52	1.786e3					0.4	NO		bb		0.000
52	FUNCTION3 PFK	37.38	1.181e4					0.8	NO		bb		0.000
53	FUNCTION3 PFK	37.32	2.852e3					0.5	NO		db		0.000
54	FUNCTION3 PFK	37.29	1.067e4					0.9	NO		bd		0.000
55	FUNCTION3 PFK	37.12	1.332e4					1.1	NO		db		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.07	3.839e5					9.7	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.91	3.198e3					0.9	NO		bb		
2	FUNCTION5 PFK	44.44	5.621e3					1.1	NO		bb		
3	FUNCTION5 PFK	43.72	1.296e3					0.7	NO		bb		
4	FUNCTION5 PFK	46.00	2.951e3					0.9	NO		bb		
5	FUNCTION5 PFK	45.63	1.092e3					0.6	NO		bb		

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.32	1.271e2					3.2	YES		db		0.000
2	FUNCTION1 HXCD...	27.27	1.266e2					3.9	YES		bd		0.000
3	FUNCTION1 HXCD...	26.97	8.256e1					1.6	NO		bb		0.000
4	FUNCTION1 HXCD...	26.55	4.280e2					6.1	YES		bb		0.000
5	FUNCTION1 HXCD...	26.02	1.029e2					2.7	NO		db		0.000
6	FUNCTION1 HXCD...	25.90	2.502e2					4.4	YES		dd		0.000
7	FUNCTION1 HXCD...	25.72	2.101e2					3.6	YES		bd		0.000
8	FUNCTION1 HXCD...	23.72	8.529e1					3.0	YES		bb		0.000
9	FUNCTION1 HXCD...	22.99	9.923e1					2.5	NO		bb		0.000
10	FUNCTION1 HXCD...	22.00	7.560e1					1.7	NO		db		0.000
11	FUNCTION1 HXCD...	21.89	1.928e2					3.3	YES		bd		0.000
12	FUNCTION1 HXCD...	21.10	1.048e2					3.0	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.67	7.036e1					1.9	NO		db		0.000
2	FUNCTION1 HPCD...	26.53	4.357e2					5.6	YES		bd		0.000
3	FUNCTION1 HPCD...	25.91	1.719e2					2.5	NO		bb		0.000
4	FUNCTION1 HPCD...	25.70	1.553e2					2.9	NO		bb		0.000
5	FUNCTION1 HPCD...	24.63	1.444e2					3.1	YES		bb		0.000
6	FUNCTION1 HPCD...	24.20	7.285e1					2.2	NO		bb		0.000
7	FUNCTION1 HPCD...	23.45	7.383e1					2.1	NO		bb		0.000
8	FUNCTION1 HPCD...	23.34	1.346e2					1.9	NO		bb		0.000
9	FUNCTION1 HPCD...	22.31	1.729e2					2.3	NO		bb		0.000
10	FUNCTION1 HPCD...	22.01	7.908e1					1.1	NO		bb		0.000
11	FUNCTION1 HPCD...	21.22	1.137e2					3.5	YES		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.40	9.562e2					13.4	YES		dd		0.000
2	FUNCTION2 HPCD...	31.27	1.162e4					218.9	YES		bd		0.000
3	FUNCTION2 HPCD...	30.07	9.742e2					11.5	YES		bb		0.000
4	FUNCTION2 HPCD...	28.81	1.484e2					3.1	YES		bb		0.000
5	FUNCTION2 HPCD...	32.66	5.798e2					8.9	YES		bb		0.000
6	FUNCTION2 HPCD...	31.65	1.260e3					18.3	YES		db		0.000

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld

Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time

Printed: Friday, February 03, 2023 10:38:07 Pacific Standard Time

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.03	6.482e2					9.9	YES		bb		0.000
2	FUNCTION3 OCDPE	36.61	1.390e3					18.8	YES		bb		0.000
3	FUNCTION3 OCDPE	36.23	1.589e3					24.2	YES		db		0.000
4	FUNCTION3 OCDPE	36.12	1.347e3					19.9	YES		dd		0.000
5	FUNCTION3 OCDPE	36.01	6.921e2					11.8	YES		bd		0.000
6	FUNCTION3 OCDPE	35.14	1.254e3					15.1	YES		db		0.000
7	FUNCTION3 OCDPE	35.01	7.695e2					12.4	YES		bd		0.000
8	FUNCTION3 OCDPE	33.86	1.826e2					4.0	YES		bb		0.000

## ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.12	8.339e2					10.8	YES		bb		0.000
2	FUNCTION4 NCDPE	40.38	7.844e2					14.4	YES		bb		0.000
3	FUNCTION4 NCDPE	39.21	1.191e2					4.5	YES		bb		0.000
4	FUNCTION4 NCDPE	38.86	6.704e2					11.4	YES		bb		0.000
5	FUNCTION4 NCDPE	41.43	1.172e2					3.2	YES		bb		0.000

## ETHERS6

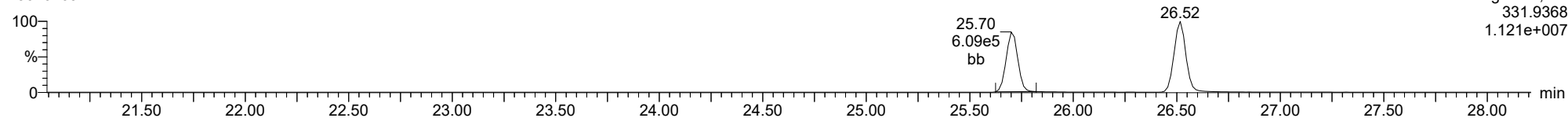
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.38	2.060e3					22.7	YES		db		0.000
2	FUNCTION5 DCDPE	45.15	2.089e3					25.1	YES		bd		0.000
3	FUNCTION5 DCDPE	44.92	7.340e1					3.7	YES		bb		0.000

**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33**  
**Calibration: 03 Feb 2023 10:33:40**

**ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk**

**13C-1234-TCDD**

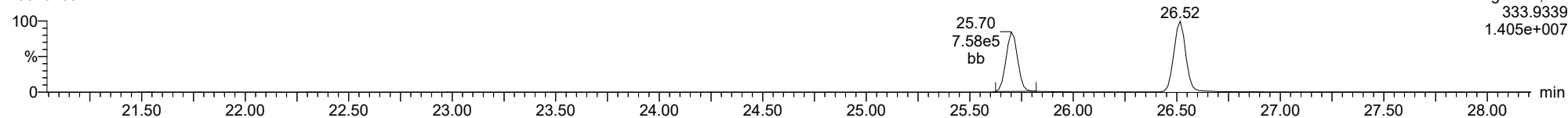
23020109



F1:Voltage SIR,El+  
331.9368  
1.121e+007

**13C-1234-TCDD**

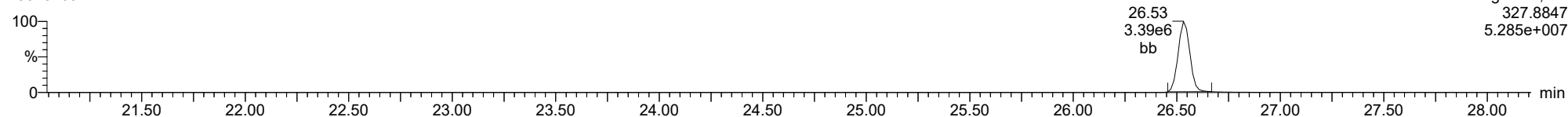
23020109



F1:Voltage SIR,El+  
333.9339  
1.405e+007

**37CL-2378-TCDD**

23020109

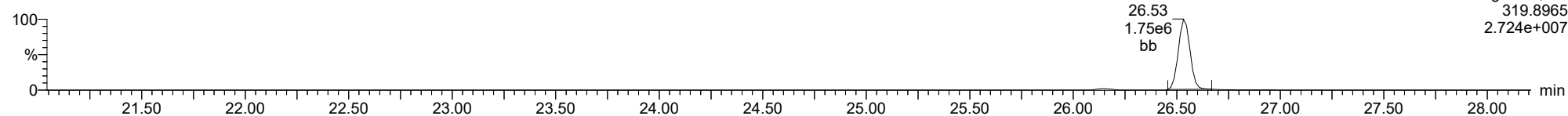


F1:Voltage SIR,El+  
327.8847  
5.285e+007

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

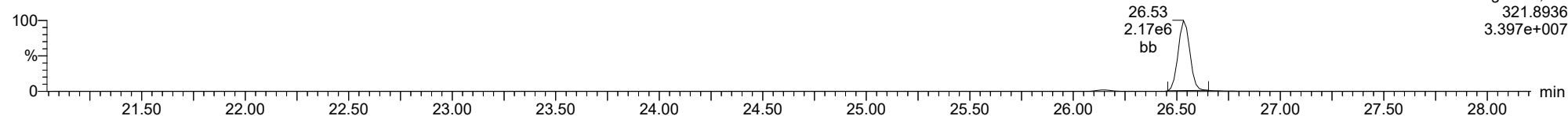
**2378-TCDD**

23020109



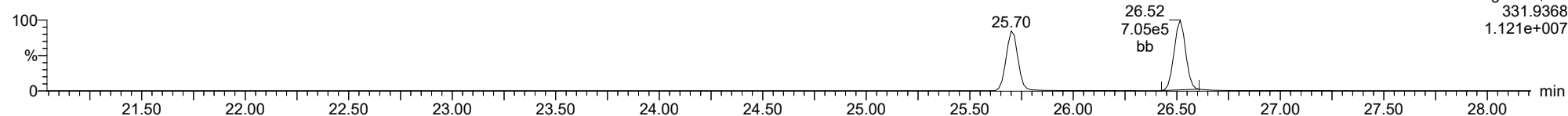
**2378-TCDD**

23020109



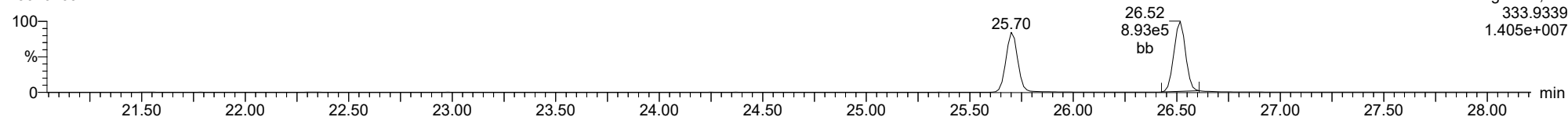
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23020109



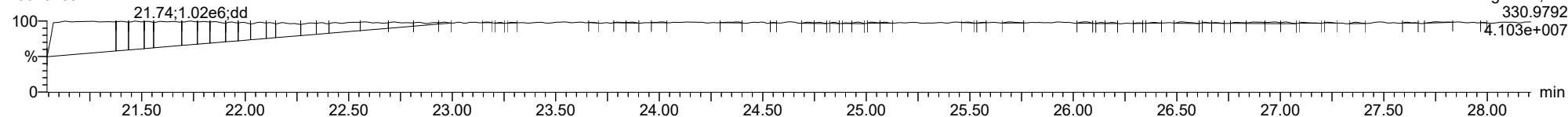
**13C-2378-TCDD**

23020109



**FUNCTION1 PFK**

23020109

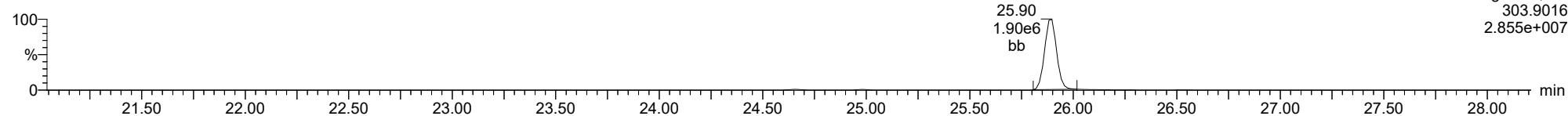




ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

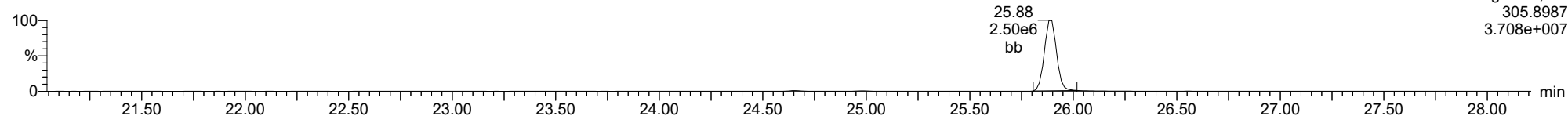
**2378-TCDF**

23020109



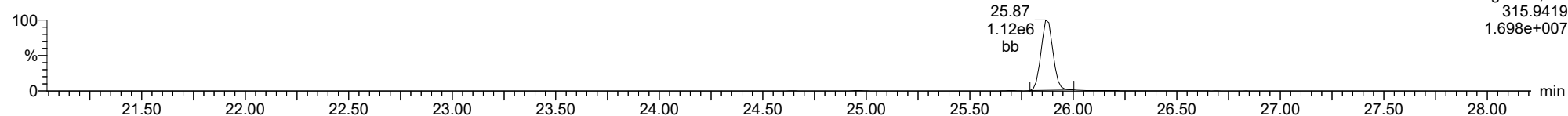
**2378-TCDF**

23020109



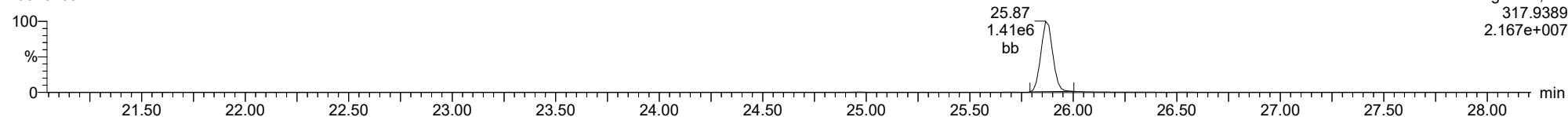
**13C-2378-TCDF**

23020109



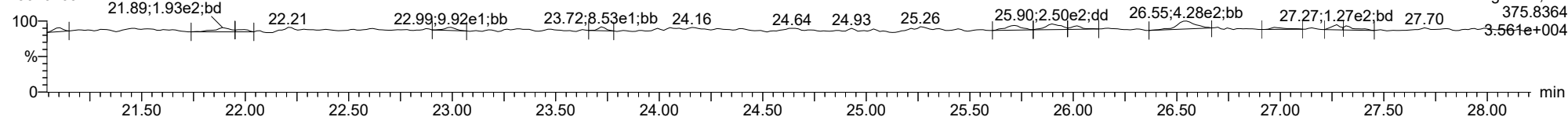
**13C-2378-TCDF**

23020109



**FUNCTION1 HXCDFE**

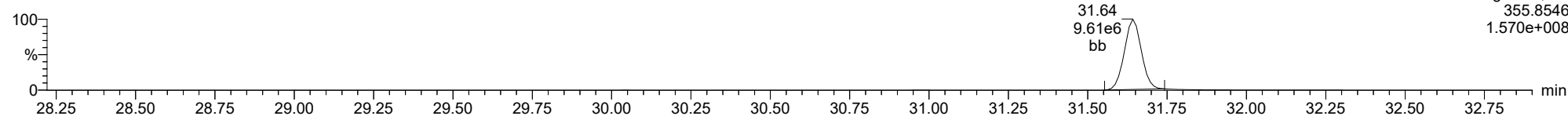
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

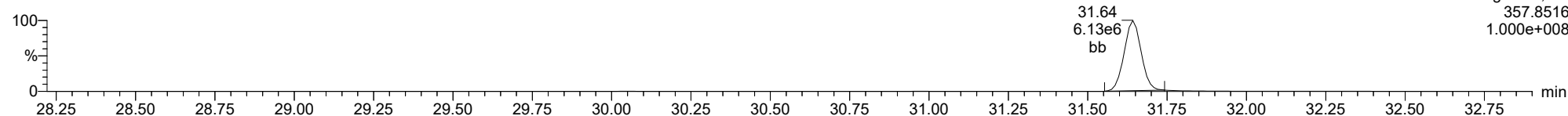
**12378-PeCDD**

23020109



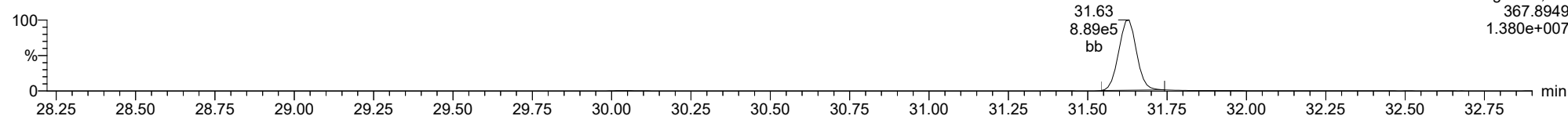
**12378-PeCDD**

23020109



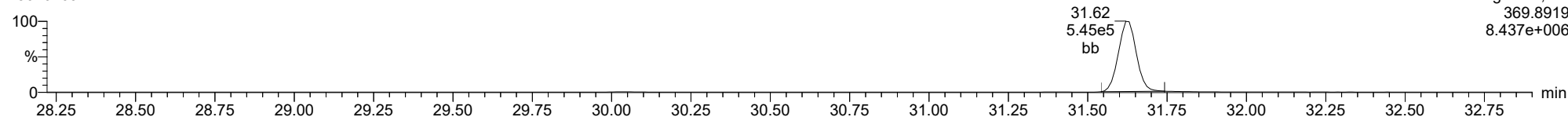
**13C-12378-PeCDD**

23020109



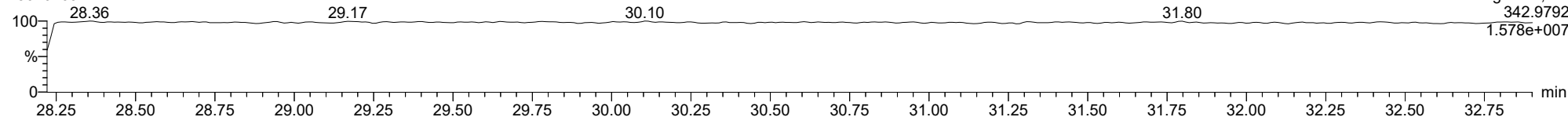
**13C-12378-PeCDD**

23020109



**FUNCTION2 PFK**

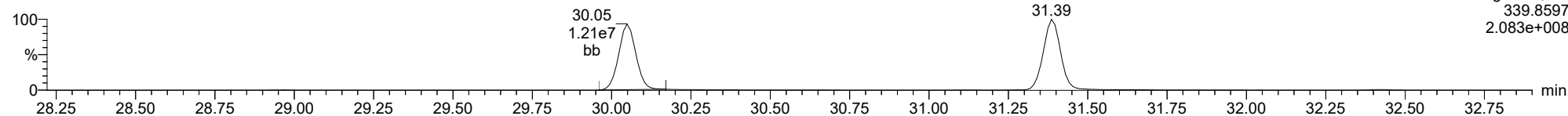
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

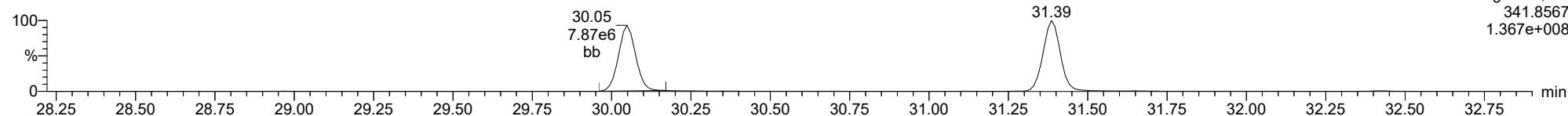
**12378-PeCDF**

23020109



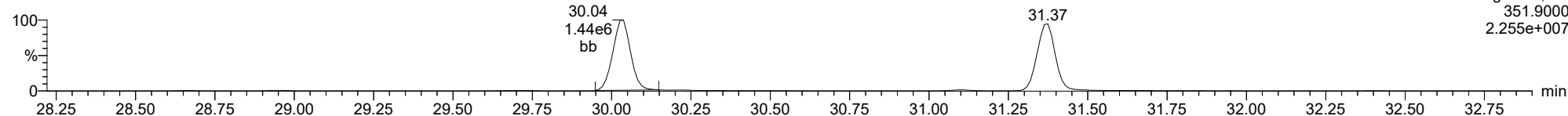
**12378-PeCDF**

23020109



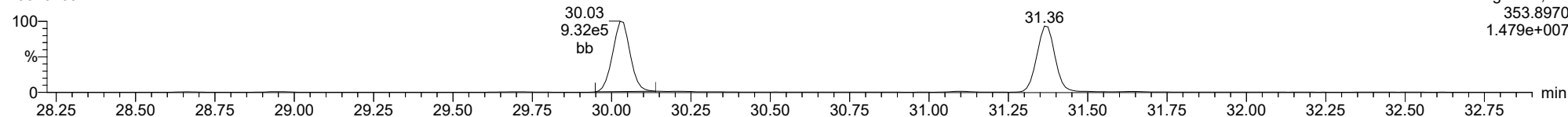
**13C-12378-PeCDF**

23020109



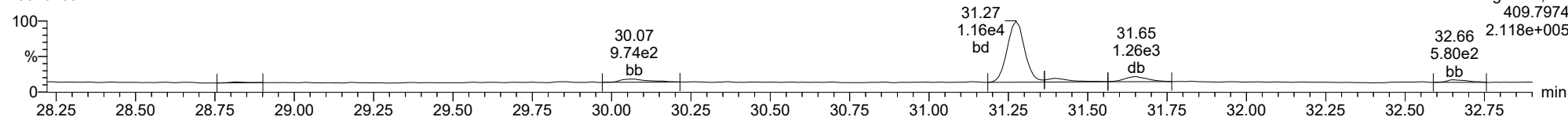
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23020109



**FUNCTION2 HPCDPE**

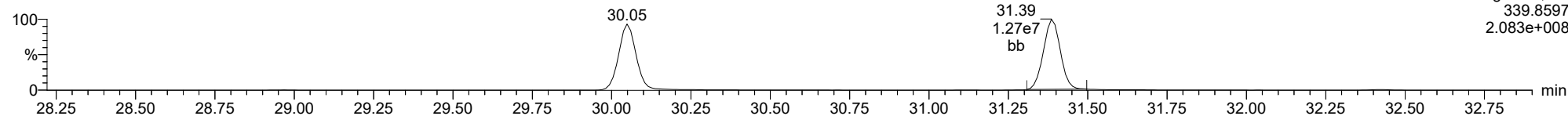
23020109



ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

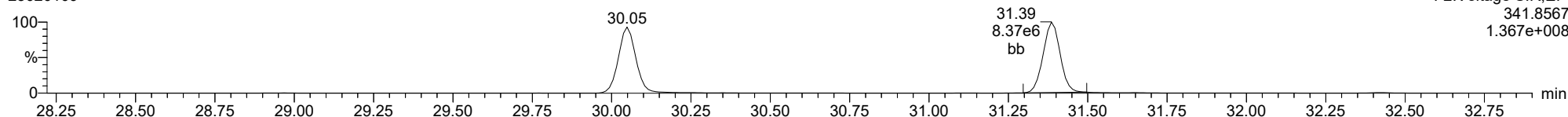
**23478-PeCDF**

23020109



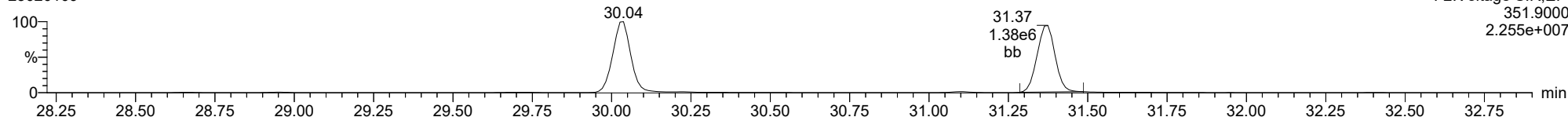
**23478-PeCDF**

23020109



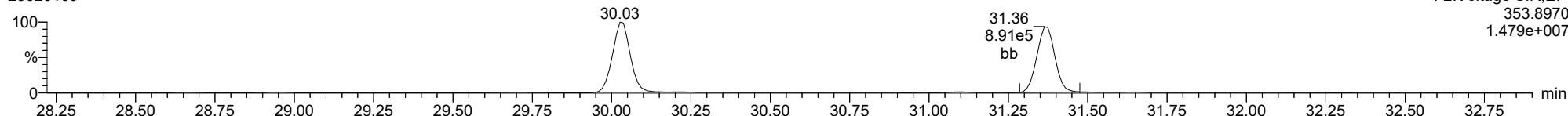
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23020109



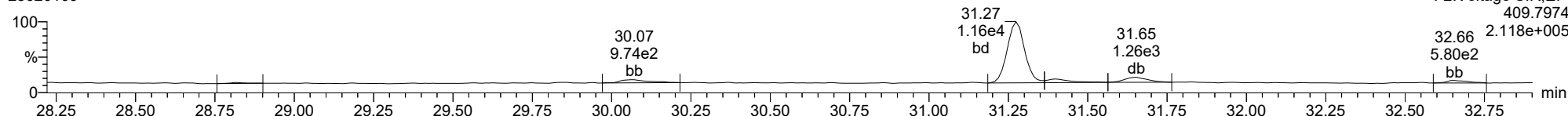
**13C-23478-PeCDF**

23020109



**FUNCTION2 HPCDPE**

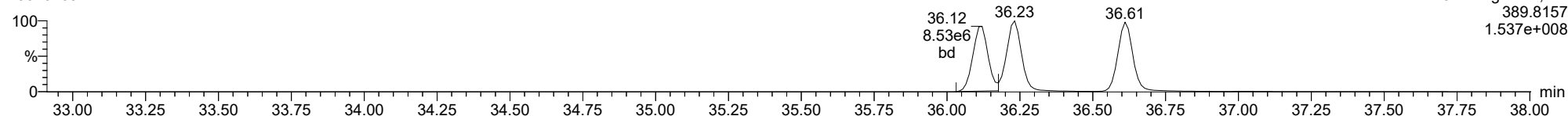
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

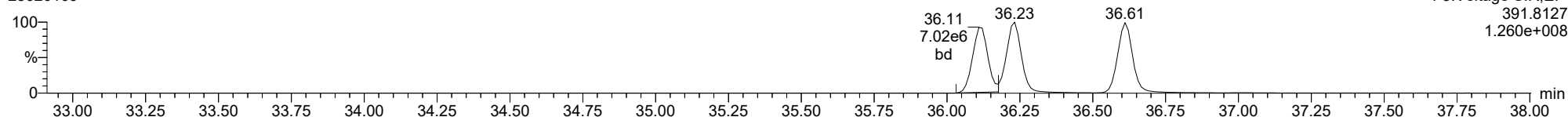
**123478-HxCDD**

23020109



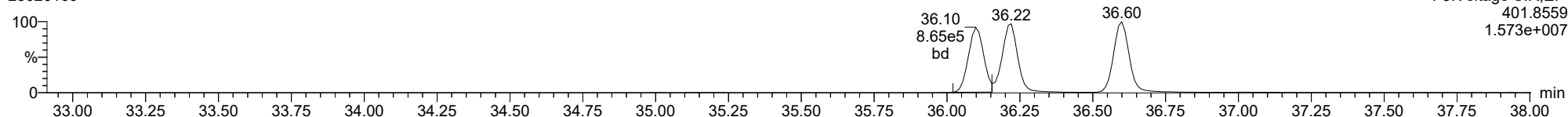
**123478-HxCDD**

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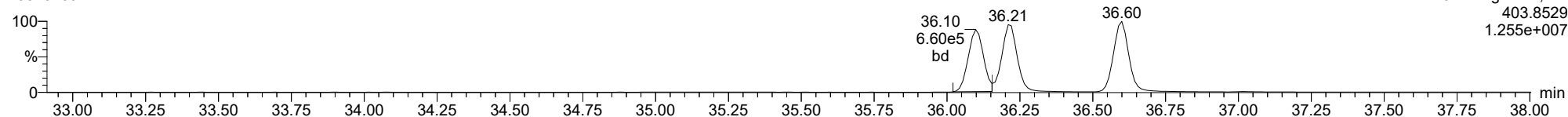
**13C-123478-HxCDD**

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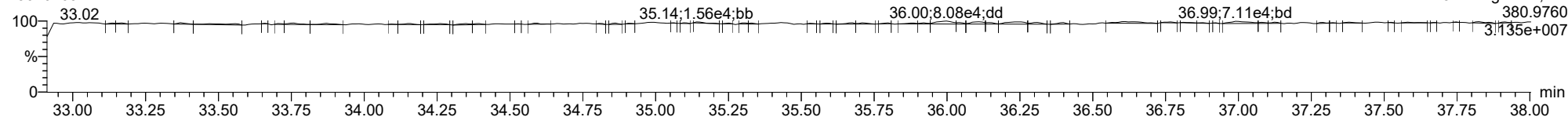
**13C-123478-HxCDD**

23020109



**FUNCTION3 PFK**

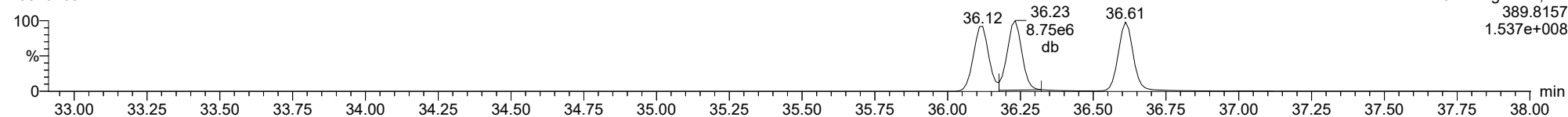
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

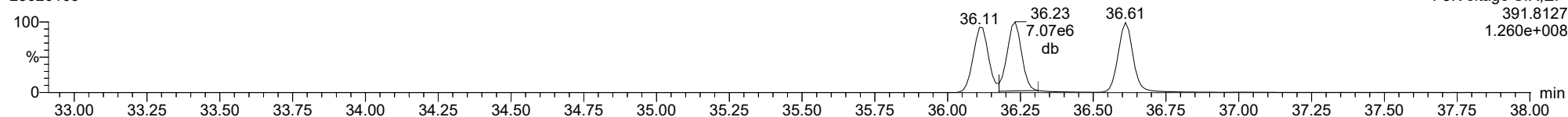
**123678-HxCDD**

23020109



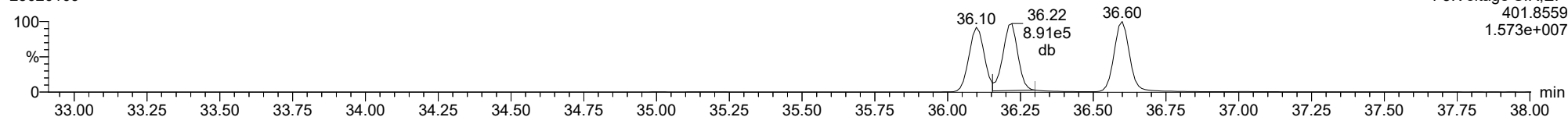
**123678-HxCDD**

23020109



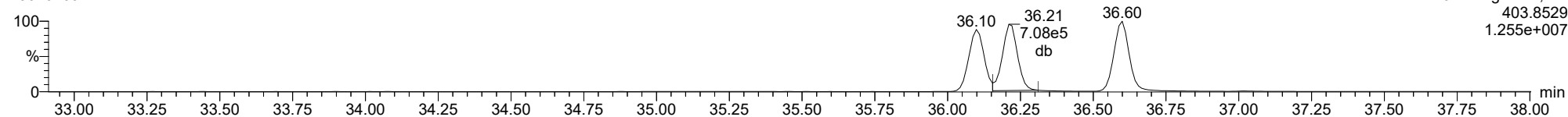
**13C-123678-HxCDD**

23020109



**13C-123678-HxCDD**

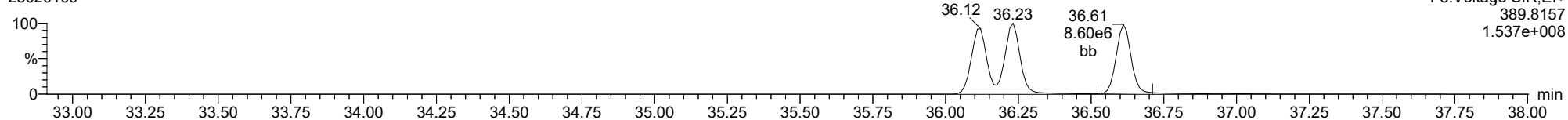
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

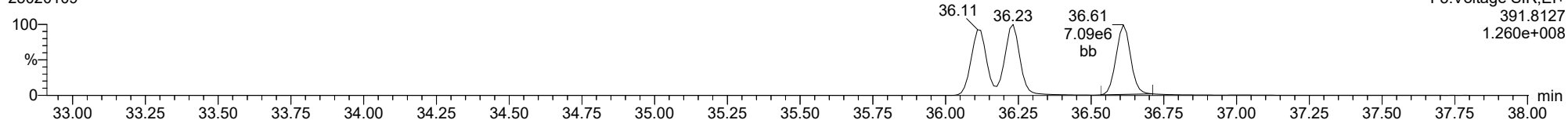
**123789-HxCDD**

23020109



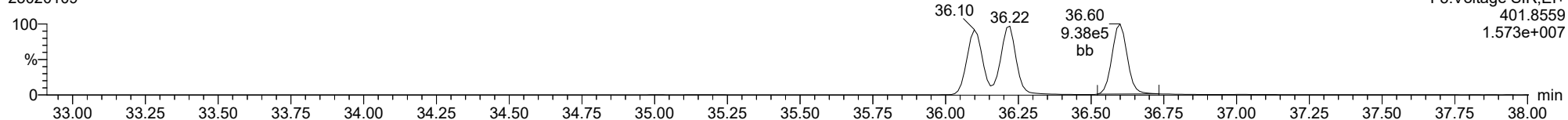
**123789-HxCDD**

23020109



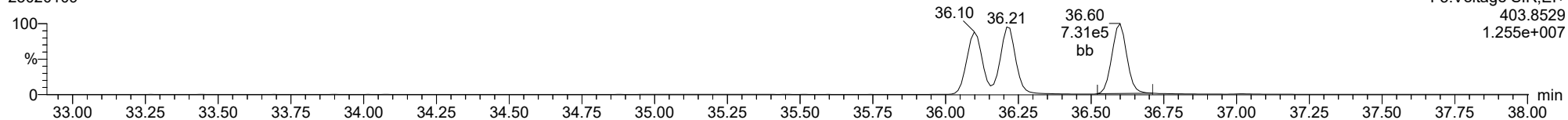
**13C-123789-HxCDD**

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**13C-123789-HxCDD**

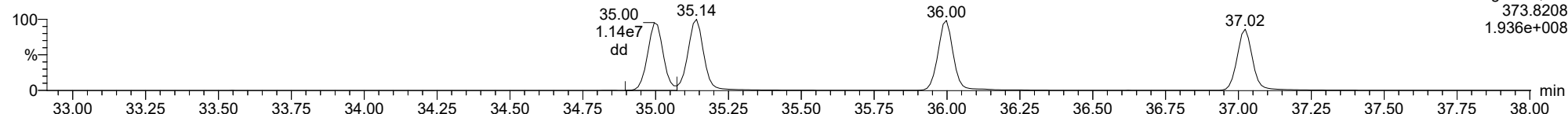
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

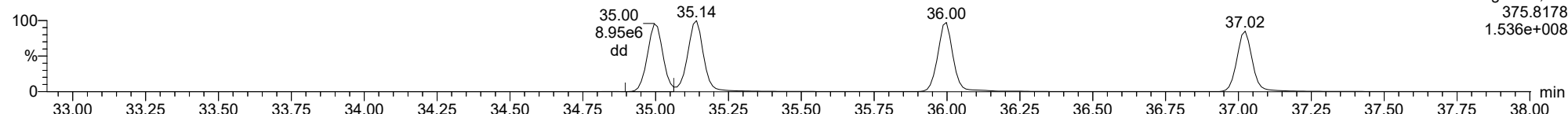
**123478-HxCDF**

23020109



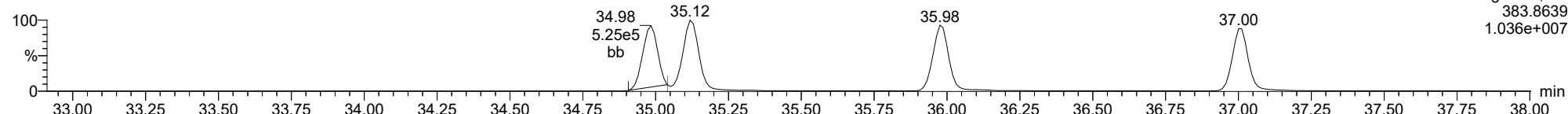
**123478-HxCDF**

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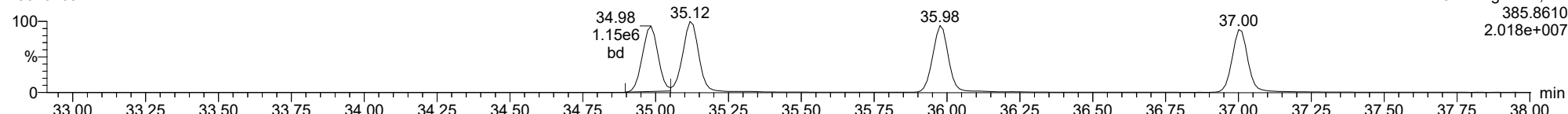
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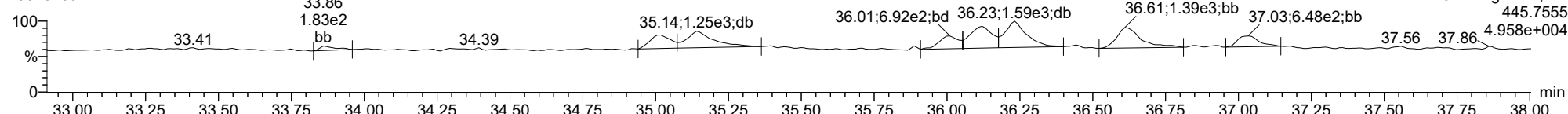
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23020109



**FUNCTION3 OCDPE**

23020109

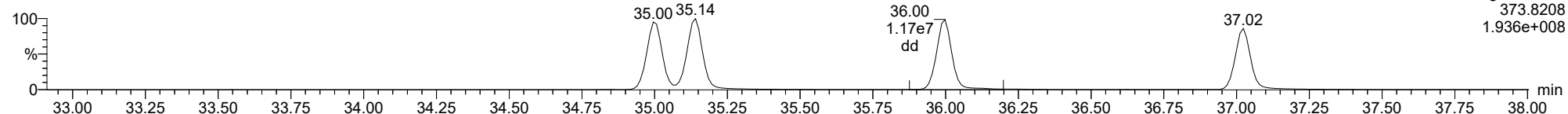




ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

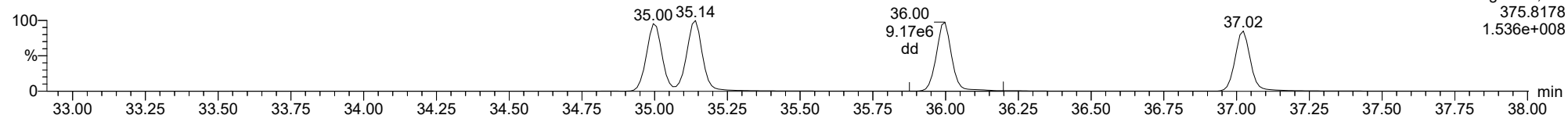
**234678-HxCDF**

23020109



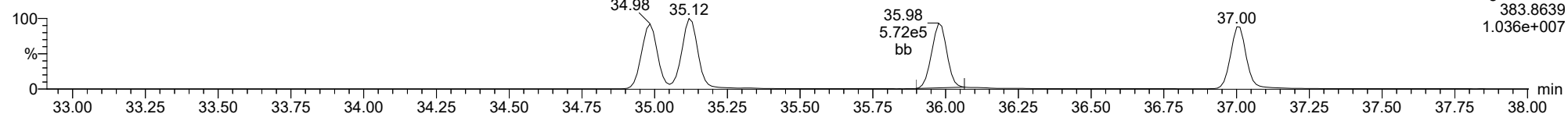
**234678-HxCDF**

23020109



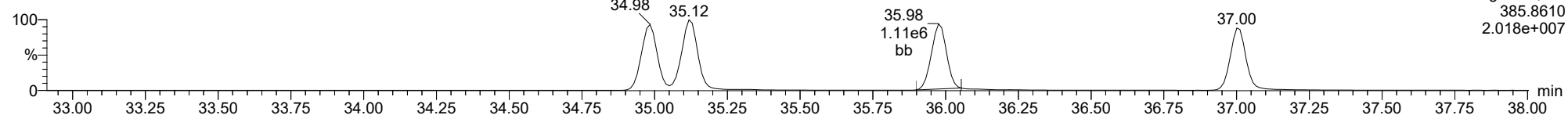
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23020109



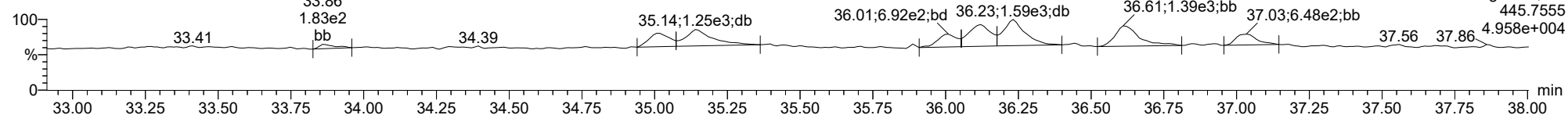
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23020109



**FUNCTION3 OCDPE**

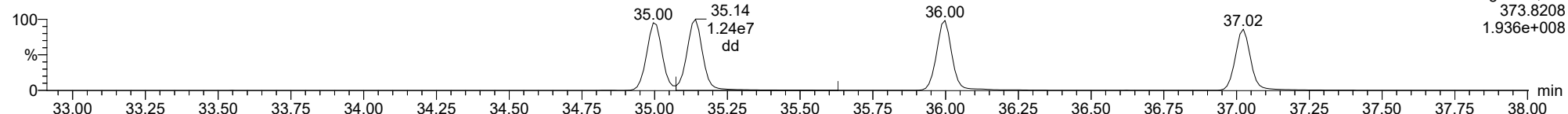
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

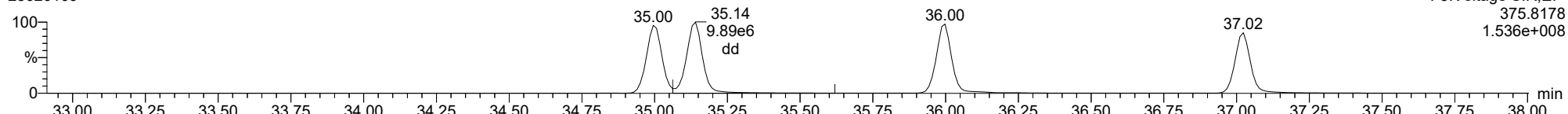
**123678-HxCDF**

23020109



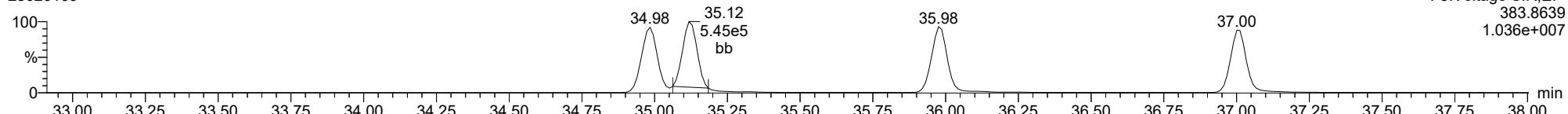
**123678-HxCDF**

23020109



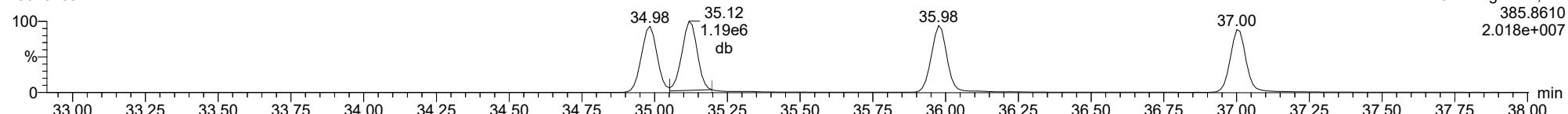
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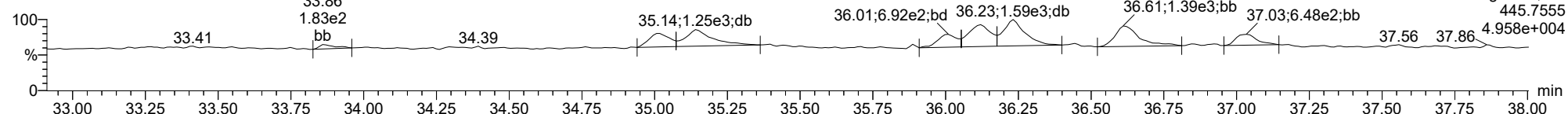
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23020109



**FUNCTION3 OCDPE**

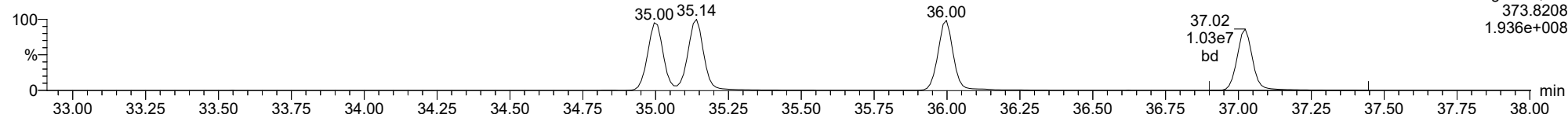
23020109



ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

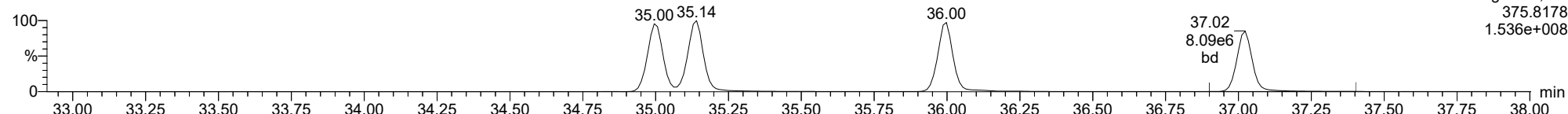
**123789-HxCDF**

23020109



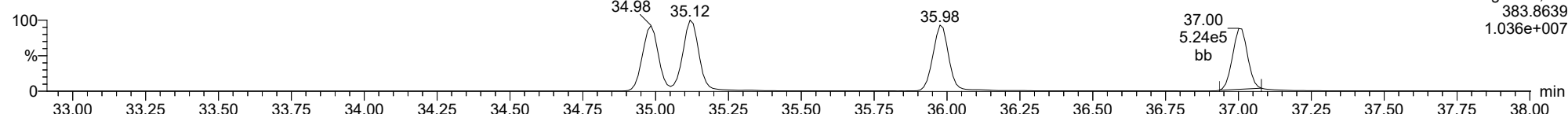
**123789-HxCDF**

23020109



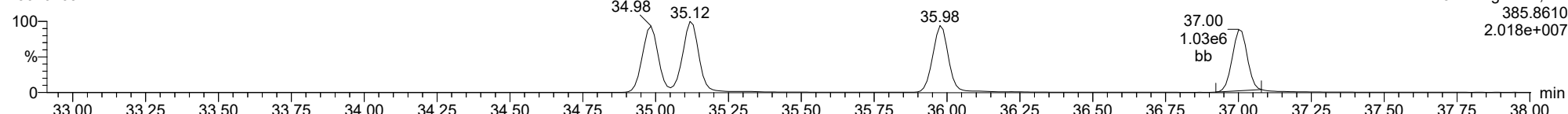
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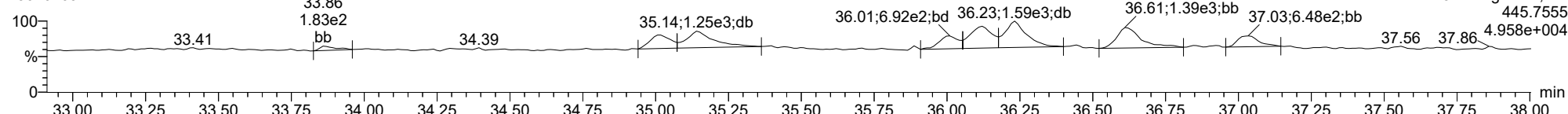
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23020109



**FUNCTION3 OCDPE**

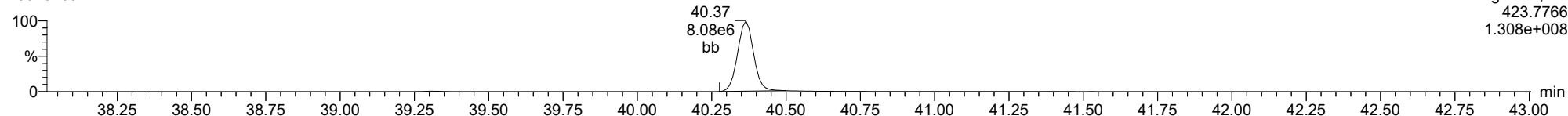
23020109



ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

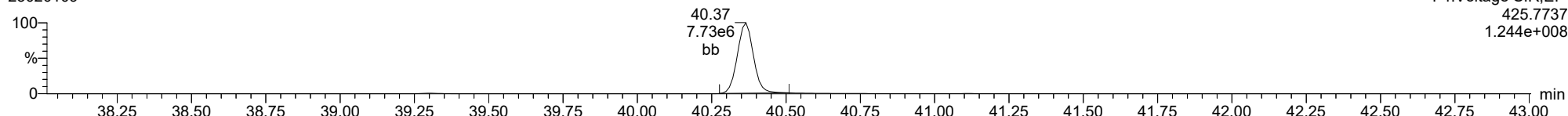
**1234678-HpCDD**

23020109



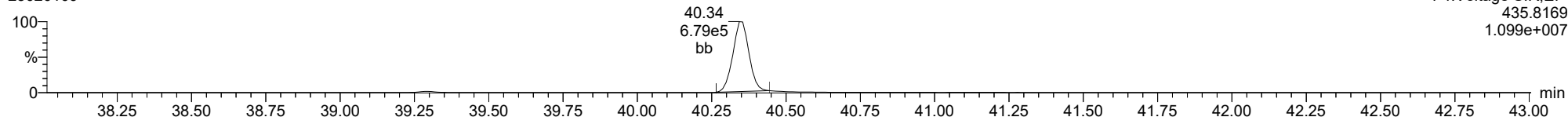
**1234678-HpCDD**

23020109



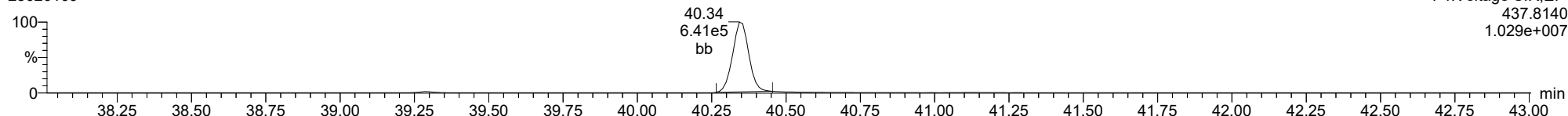
**13C-1234678-HpCDD**

23020109



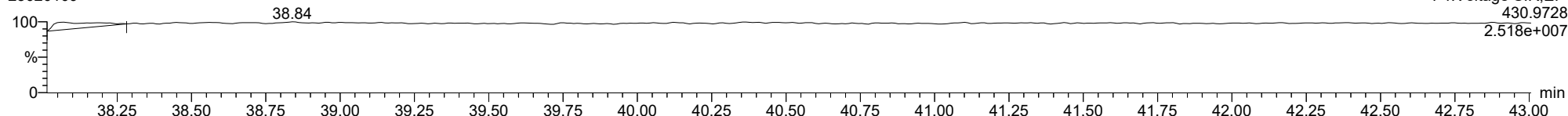
**13C-1234678-HpCDD**

23020109



**FUNCTION4 PFK**

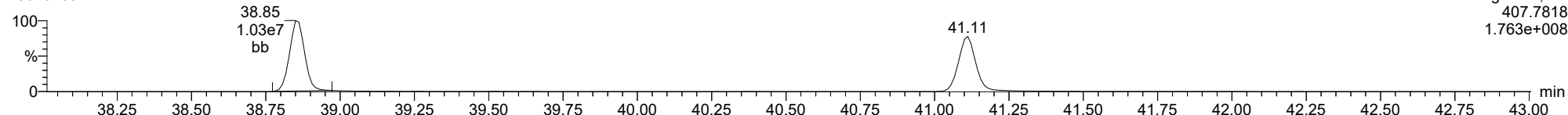
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

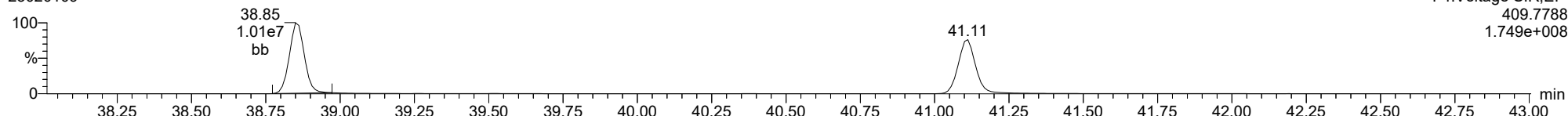
1234678-HpCDF

23020109



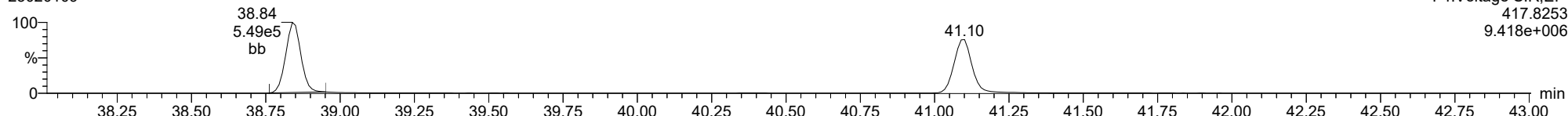
1234678-HpCDF

23020109



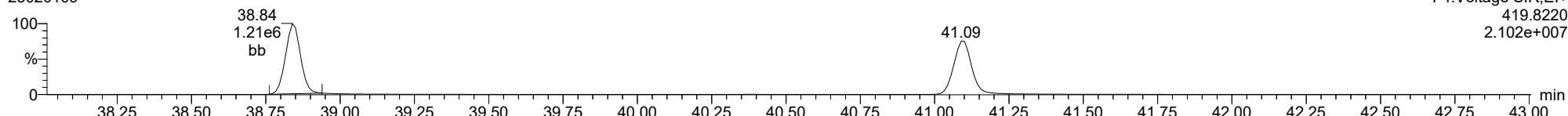
13C-1234678-HpCDF

23020109



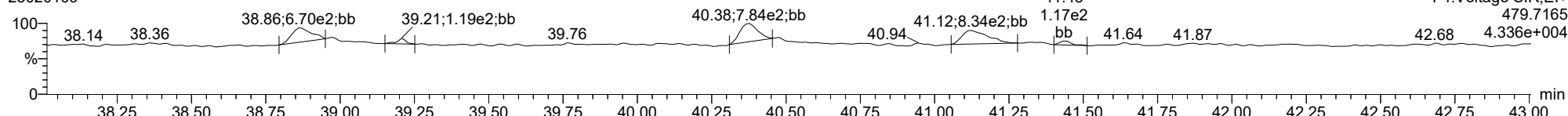
13C-1234678-HpCDF

23020109



FUNCTION4 NCDPE

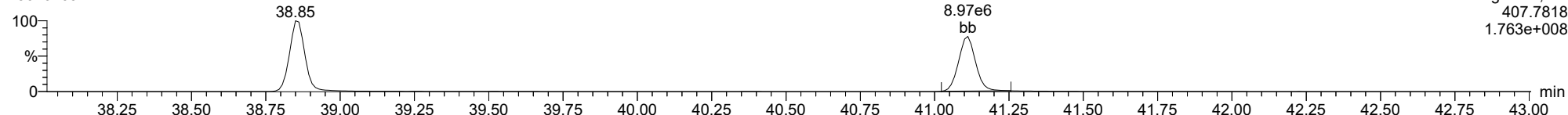
23020109



ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

**1234789-HpCDF**

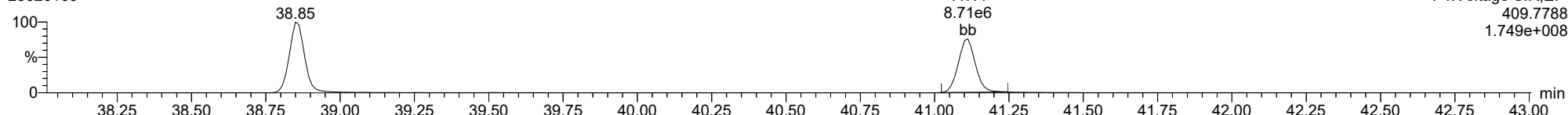
23020109



F4:Voltage SIR,EI+  
407.7818  
1.763e+008

**1234789-HpCDF**

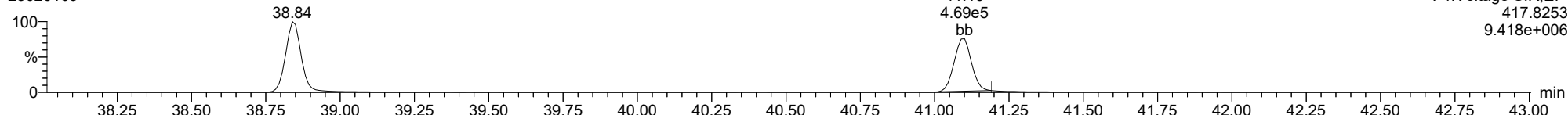
23020109



F4:Voltage SIR,EI+  
409.7788  
1.749e+008

**13C-1234789-HpCDF**

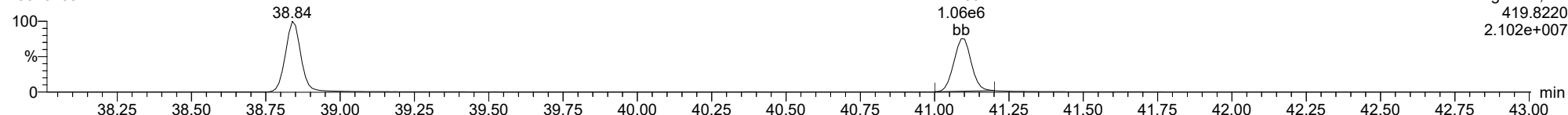
23020109



F4:Voltage SIR,EI+  
417.8253  
9.418e+006

**13C-1234789-HpCDF**

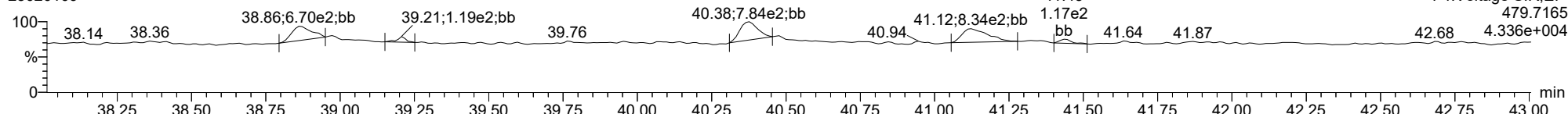
23020109



F4:Voltage SIR,EI+  
419.8220  
2.102e+007

**FUNCTION4 NCDPE**

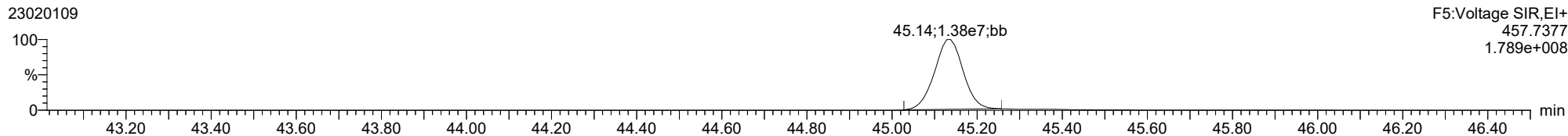
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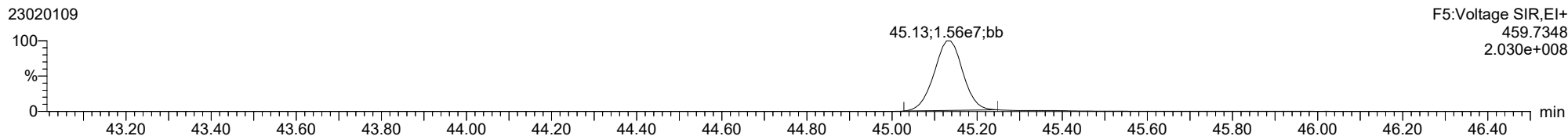
F4:Voltage SIR,EI+  
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4.336e+004

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

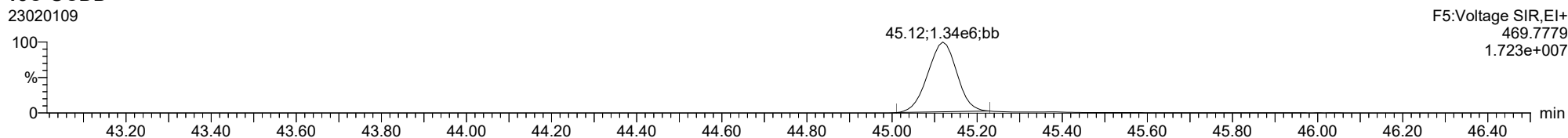
**OCDD**



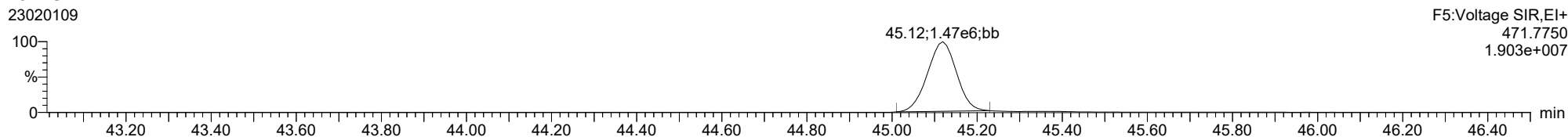
**OCDD**



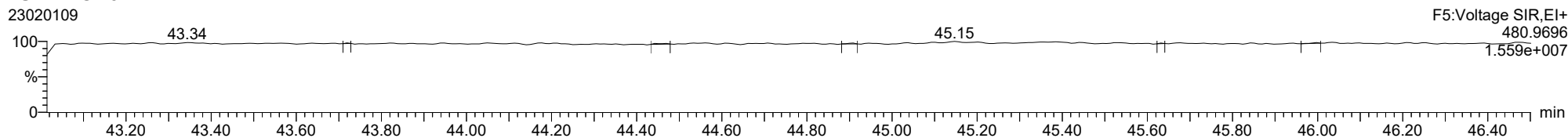
**13C-OCDD**



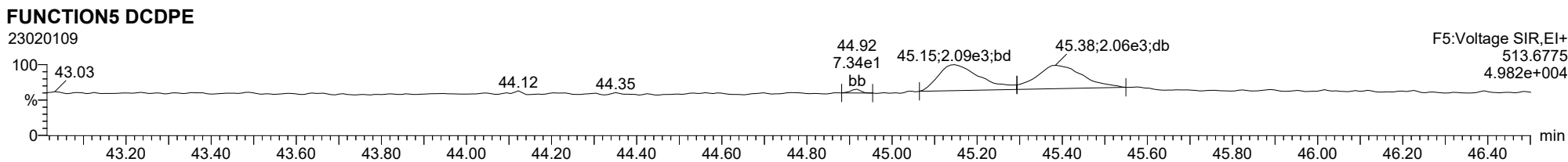
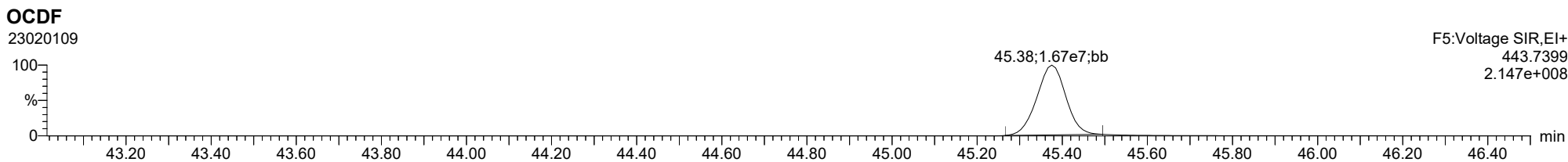
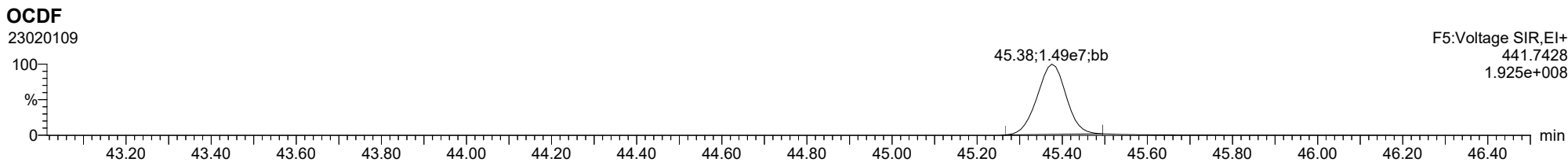
**13C-OCDD**



**FUNCTIONS PFK**



ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

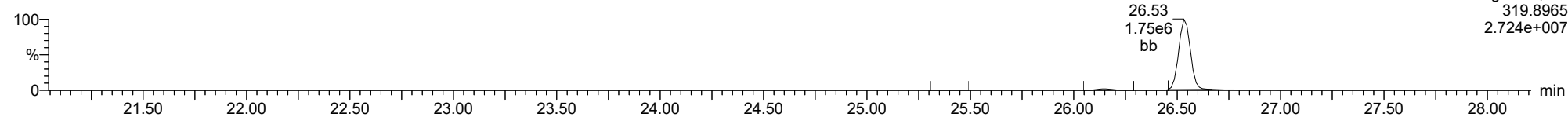




ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

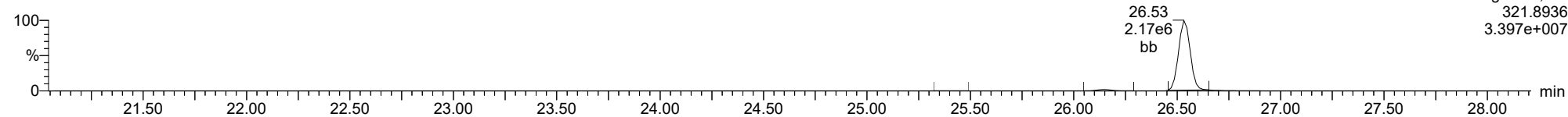
**Total-tetradoxins**

23020109



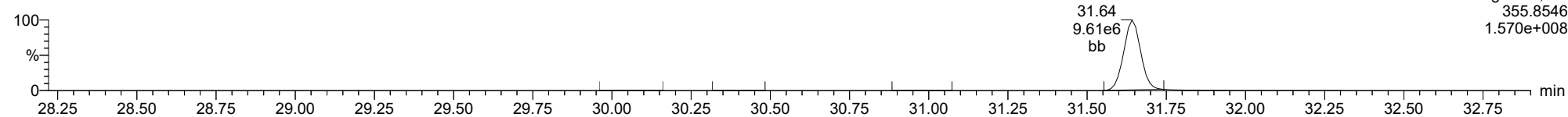
**Total-tetradoxins**

23020109



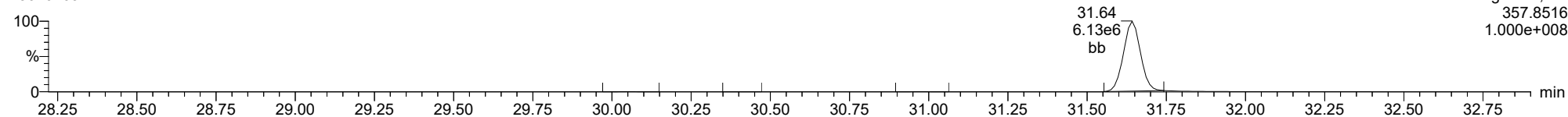
**Total-pentadoxins**

23020109



**Total-pentadoxins**

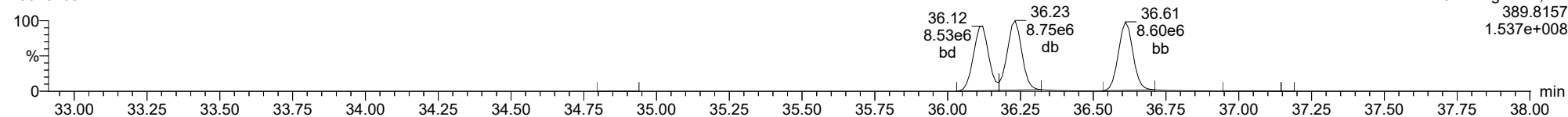
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

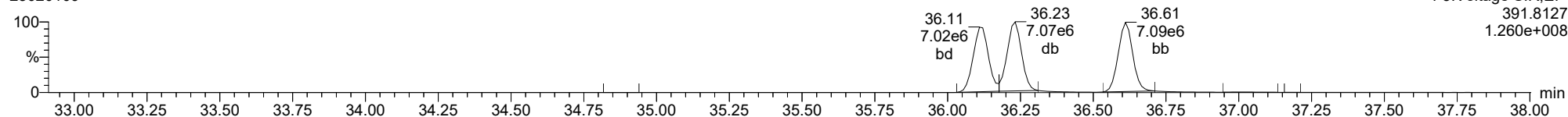
**Total-hexadioxins**

23020109



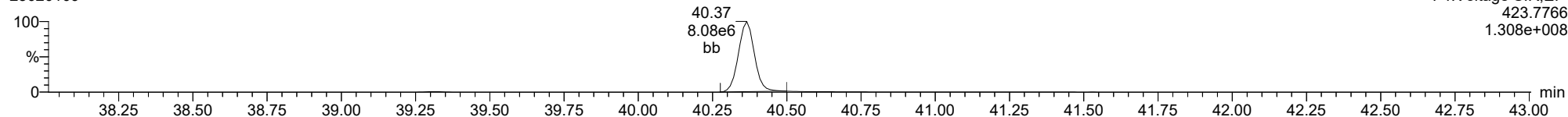
**Total-hexadioxins**

23020109



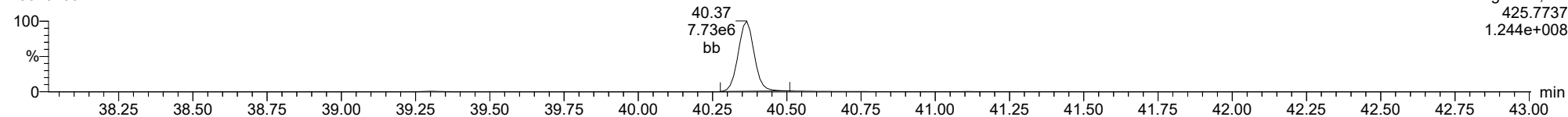
**Total-heptadioxins**

23020109



**Total-heptadioxins**

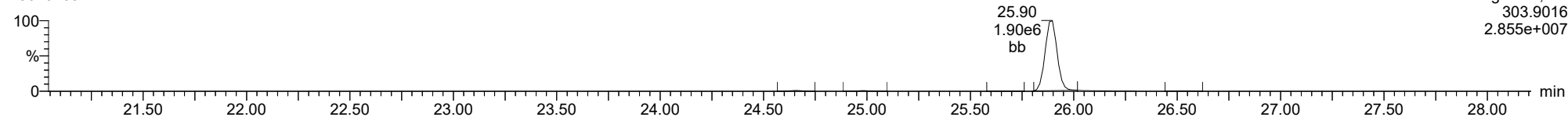
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

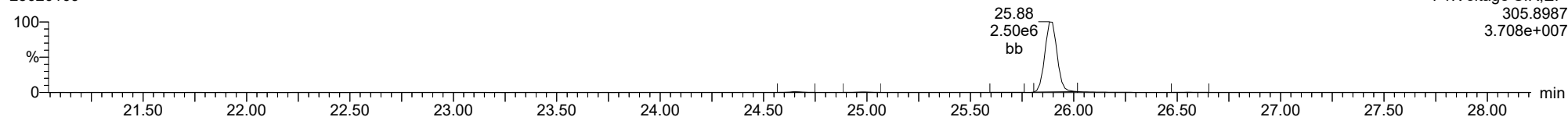
**Total-tetrafurans**

23020109



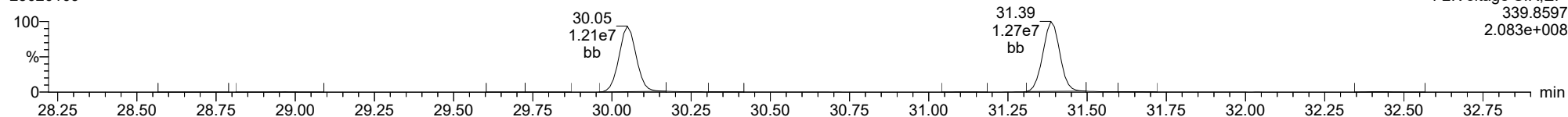
**Total-tetrafurans**

23020109



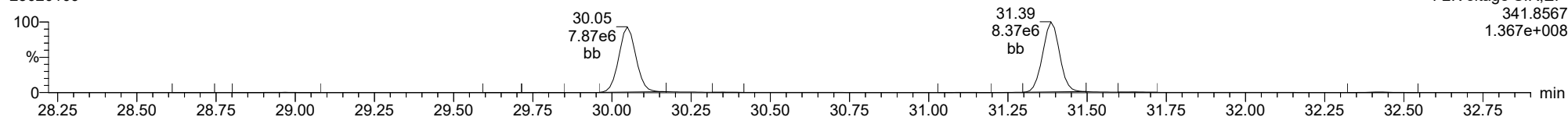
**Total-pentafurans**

23020109



**Total-pentafurans**

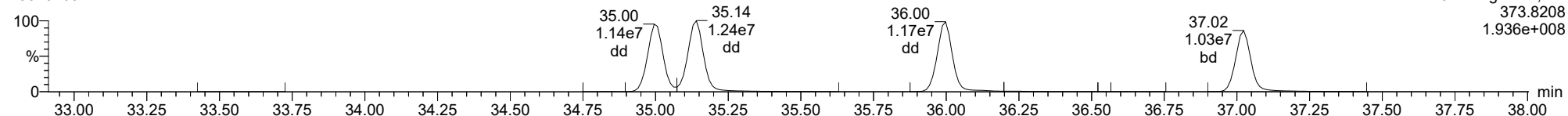
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

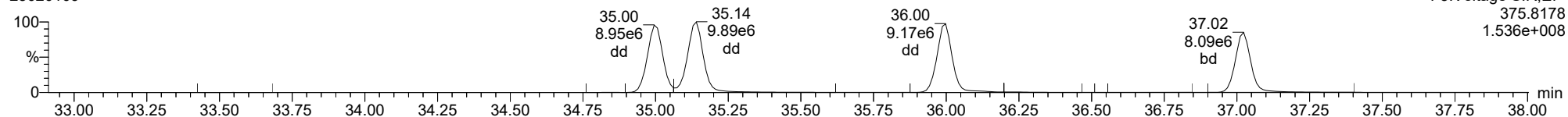
**Total-hexafurans**

23020109



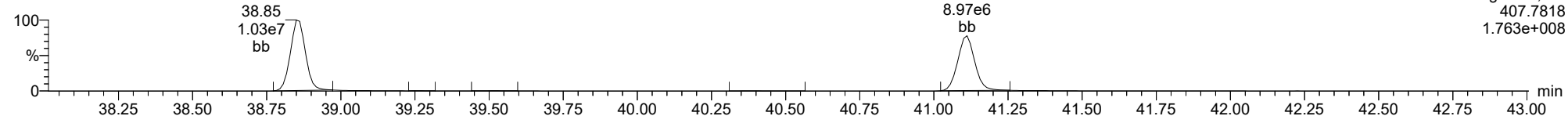
**Total-hexafurans**

23020109



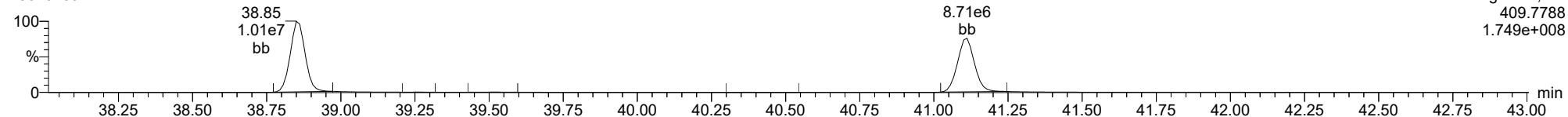
**Total-heptafurans**

23020109



**Total-heptafurans**

23020109



Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld  
 Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time  
 Printed: Friday, February 03, 2023 11:23:11 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
**Calibration:** T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

**ID:** ICVCR, **Name:** 23020110, **Date:** 01-Feb-2023, **Time:** 20:23:25, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	7.583e4	1.018e5	0.876	0.744	0.770	1312	1705	1.17e6	1.55e6	895.7	911.1	NO	bb	bb	9.802
12378-PeCDF	30.037	1.000	4.347e5	2.900e5	0.845	1.499	1.550	3463	2713	6.78e6	4.53e6	1956.5	1669.5	NO	bb	bb	49.435
23478-PeCDF	31.374	1.000	4.582e5	2.969e5	0.911	1.543	1.550	3463	2713	6.90e6	4.53e6	1992.7	1668.4	NO	bb	bb	50.720
123478-HxCDF	34.984	1.000	3.962e5	3.152e5	1.182	1.257	1.240	2904	2208	6.26e6	4.98e6	2155.7	2257.5	NO	bd	bd	50.838
234678-HxCDF	35.987	1.001	4.056e5	3.185e5	1.229	1.273	1.240	2904	2208	6.27e6	4.93e6	2160.6	2231.5	NO	bb	bd	51.528
123678-HxCDF	35.129	1.001	4.284e5	3.437e5	1.248	1.247	1.240	2904	2208	6.50e6	5.14e6	2238.5	2329.7	NO	dd	db	51.066
123789-HxCDF	37.012	1.001	3.438e5	2.711e5	1.187	1.268	1.240	2904	2208	5.39e6	4.21e6	1855.6	1906.8	NO	bb	bb	49.890
1234678-HpCDF	38.850	1.001	3.527e5	3.436e5	1.204	1.027	1.050	3342	3138	5.81e6	5.69e6	1739.4	1813.0	NO	bb	bb	48.984
1234789-HpCDF	41.101	1.000	3.197e5	3.013e5	1.165	1.061	1.050	3342	3138	4.62e6	4.44e6	1383.4	1415.4	NO	bd	bb	51.470
OCDF	45.357	1.006	4.733e5	5.396e5	1.186	0.877	0.890	2772	1582	5.77e6	6.54e6	2082.4	4133.4	NO	bb	bb	92.994
2378-TCDD	26.532	1.001	6.792e4	8.768e4	1.236	0.775	0.770	1380	1753	1.03e6	1.34e6	749.1	761.7	NO	bb	bb	10.105
12378-PeCDD	31.631	1.000	3.290e5	2.096e5	1.087	1.569	1.550	3204	3195	5.14e6	3.30e6	1603.9	1031.8	NO	bb	bb	48.876
123478-HxCDD	36.109	1.001	2.890e5	2.319e5	0.987	1.246	1.240	2459	2022	4.84e6	3.91e6	1968.4	1935.9	NO	bd	bd	50.975
123678-HxCDD	36.221	1.000	2.990e5	2.445e5	1.021	1.223	1.240	2459	2022	4.88e6	4.06e6	1984.4	2008.5	NO	db	db	48.307
123789-HxCDD	36.599	1.011	2.845e5	2.378e5	0.985	1.196	1.240	2459	2022	4.82e6	3.99e6	1960.3	1972.8	NO	bb	bb	49.580
1234678-HpCDD	40.354	1.001	2.858e5	2.609e5	1.253	1.095	1.050	2240	2747	4.24e6	3.98e6	1890.7	1447.3	NO	bd	bb	48.846
OCDD	45.111	1.000	4.553e5	5.144e5	1.103	0.885	0.890	2050	2803	5.81e6	6.65e6	2832.1	2371.2	NO	bb	bb	95.778
13C-2378-TCDF	25.867	1.006	9.159e5	1.153e6	1.768	0.794	0.770	2721	1646	1.40e7	1.78e7	5149.2	10794.2	NO	bb	bb	100.832
13C-12378-PeCDF	30.026	1.168	1.059e6	6.764e5	1.527	1.566	1.550	3804	2727	1.61e7	1.02e7	4228.7	3742.1	NO	bb	bb	97.924
13C-23478-PeCDF	31.363	1.220	9.914e5	6.424e5	1.466	1.543	1.550	3804	2727	1.49e7	9.56e6	3917.8	3506.2	NO	bb	bb	96.003
13C-123478-HxCDF	34.973	0.956	4.014e5	7.827e5	1.054	0.513	0.510	2311	3449	6.56e6	1.28e7	2840.4	3698.0	NO	bd	bd	98.968
13C-123678-HxCDF	35.106	0.960	4.085e5	8.030e5	1.080	0.509	0.510	2311	3449	6.64e6	1.32e7	2872.8	3823.9	NO	db	db	98.793
13C-234678-HxCDF	35.964	0.983	3.869e5	7.566e5	1.014	0.511	0.510	2311	3449	6.49e6	1.28e7	2809.7	3704.0	NO	bb	bb	99.278
13C-123789-HxCDF	36.989	1.011	3.535e5	6.852e5	0.928	0.516	0.510	2311	3449	5.90e6	1.14e7	2552.6	3318.4	NO	bb	bb	98.576
13C-1234678-HpCDF	38.828	1.061	3.652e5	8.153e5	1.036	0.448	0.440	3274	4191	6.12e6	1.38e7	1868.5	3294.0	NO	bb	bb	100.340
13C-1234789-HpCDF	41.090	1.123	3.190e5	7.164e5	0.905	0.445	0.440	3274	4191	4.81e6	1.07e7	1468.7	2563.9	NO	bb	bb	100.753
13C-1234-TCDD	25.700	0.000	5.137e5	6.469e5	1.000	0.794	0.770	2221	1552	7.96e6	9.97e6	3583.6	6423.2	NO	bb	bb	100.000
13C-2378-TCDD	26.501	1.031	5.549e5	6.905e5	1.103	0.804	0.770	2221	1552	8.40e6	1.04e7	3781.7	6727.2	NO	bb	bb	97.290
13C-12378-PeCDD	31.619	1.230	6.261e5	3.880e5	0.914	1.614	1.550	1580	2177	9.40e6	5.80e6	5947.9	2663.3	NO	bb	bb	95.581
13C-123478-HxCDD	36.087	0.986	5.808e5	4.547e5	0.933	1.277	1.240	2129	1763	9.84e6	7.81e6	4624.5	4431.4	NO	bd	bd	97.737
13C-123678-HxCDD	36.209	0.990	6.262e5	4.760e5	0.965	1.315	1.240	2129	1763	9.80e6	7.57e6	4603.5	4292.7	NO	db	db	100.625
13C-1234678-HpCDD	40.332	1.102	4.634e5	4.302e5	0.782	1.077	1.050	2527	2271	7.13e6	6.69e6	2821.9	2945.0	NO	bb	bb	100.628
13C-OCDD	45.101	1.233	8.768e5	9.596e5	0.788	0.914	0.890	3549	1603	1.12e7	1.23e7	3153.1	7665.3	NO	bb	bb	205.165
13C-123789-HxCDD	36.588	0.000	6.499e5	4.857e5	1.000	1.338	1.240	2129	1763	1.03e7	7.92e6	4860.1	4494.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.279e5		1.233			1385		1.91e6		1382.5			bb		8.937

Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld  
 Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time  
 Printed: Friday, February 03, 2023 11:23:11 Pacific Standard Time

ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	9.960e4	1.319e5	1.064	0.755	0.770	1312	1705	1.56e6	2.09e6	1186.8	1226.5	NO	bb	bb	10.509
1289-TCDF	27.378	1.058	7.533e4	1.022e5	0.858	0.737	0.770	1312	1705	1.14e6	1.52e6	867.5	889.5	NO	db	db	10.006
13468-PECDF	27.242	0.907	5.475e5	3.540e5	1.013	1.547	1.550	880	1149	8.31e6	5.37e6	9441.4	4673.6	NO	bb	bb	51.279
12389-PECDF					0.844		1.550	3463	2713								
123468-HXCDF	33.335	0.953	4.175e5	3.320e5	1.197	1.258	1.240	2904	2208	6.11e6	4.84e6	2104.7	2190.3	NO	bb	bb	52.862
1368-TCDD	23.659	0.893	6.883e4	8.714e4	1.084	0.790	0.770	1380	1753	1.12e6	1.44e6	811.7	819.2	NO	bb	bb	11.549
1289-TCDD	27.122	1.023	6.029e4	7.860e4	0.975	0.767	0.770	1380	1753	8.98e5	1.15e6	650.5	656.0	NO	bb	bd	11.436
12479-PECDD	28.912	0.914	6.082e5	3.865e5	1.837	1.574	1.550	3204	3195	5.92e6	3.73e6	1847.3	1168.6	NO	bb	bb	53.387
12389-PECDD	32.032	1.013	4.002e5	2.572e5	1.252	1.556	1.550	3204	3195	6.11e6	3.89e6	1906.1	1217.0	NO	bb	bb	51.760
124679-HXCDD	34.104	0.945	3.073e5	2.529e5	1.033	1.215	1.240	2459	2022	4.88e6	4.09e6	1984.3	2022.2	NO	bb	bb	52.384
1234679-HPCDD	39.296	0.974	2.978e5	2.984e5	1.286	0.998	1.050	2240	2747	4.86e6	4.77e6	2169.4	1735.2	NO	bb	bd	51.878
Total-tetrafurans			2.515e5		0.933			1312		3.88e6							30.410
Total-penta1			5.475e5					880		8.31e6							51.279
Total-pentafurans			1.407e6		0.866			3463		2.14e7							158.406
Total-hexafurans			1.992e6		1.208			2904		3.05e7							256.184
Total-heptafurans			6.724e5		1.185			3342		1.04e7							100.453
Total-Furans			5.343e6		1.067			1312		8.03e7							689.726
Total-tetradoxins			3.350e5		1.099			1380		4.69e6							55.818
Total-pentadoxins			1.337e6		1.392			3204		1.72e7							154.023
Total-hexadoxins			1.180e6		1.007			2459		1.94e7							201.246
Total-heptadoxins			5.836e5		1.269			2240		9.09e6							100.724
Total-Dioxins			3.891e6		1.165			1380		5.62e7							607.589
Total-TEQ			9.234e6					1380		1.36e8							1297.316
FUNCTION1 PFK			2.960e5					590383		7.93e6							
FUNCTION2 PFK			3.847e5					195923		1.00e7							0.000
FUNCTION3 PFK			3.926e5					364545		1.22e7							0.000
FUNCTION4 PFK			4.778e5					303163		3.90e6							
FUNCTION5 PFK			9.338e4					197261		3.25e6							
FUNCTION1 HXCD...			9.172e2					783		1.34e4							0.000
FUNCTION1 HPCD...			1.484e3					913		2.30e4							0.000
FUNCTION2 HPCD...			4.855e2					894		8.19e3							0.000
FUNCTION3 OCDPE			1.383e2					795		2.59e3							0.000
FUNCTION4 NCDPE			2.530e2					911		5.27e3							0.000
FUNCTION5 DCDPE			7.207e1					795		1.85e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33

Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	7.533e4	1.022e5	0.858	0.74	0.77	867.5	YES	NO	db	db	10.006
2	2378-TCDF	25.88	7.583e4	1.018e5	0.876	0.74	0.77	895.7	YES	NO	bb	bb	9.802
3	Total-tetrafurans	24.79	7.370e2	1.079e3	0.933	0.68	0.77	8.4	YES	NO	db	dd	0.094
4	1368-TCDF	22.39	9.960e4	1.319e5	1.064	0.76	0.77	1186.8	YES	NO	bb	bb	10.509

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	5.475e5	3.540e5	1.013	1.55	1.55	9441.4	YES	NO	bb	bb	51.279

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	32.41	4.363e5	2.872e5	0.866	1.52	1.55	1891.7	YES	NO	bb	bb	49.558
2	23478-PeCDF	31.37	4.582e5	2.969e5	0.911	1.54	1.55	1992.7	YES	NO	bb	bb	50.720
3	12378-PeCDF	30.04	4.347e5	2.900e5	0.845	1.50	1.55	1956.5	YES	NO	bb	bb	49.435
4	Total-pentafurans	28.89	7.749e4	4.941e4	0.866	1.57	1.55	335.4	YES	NO	bb	bb	8.693

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.01	3.438e5	2.711e5	1.187	1.27	1.24	1855.6	YES	NO	bb	bb	49.890
2	234678-HxCDF	35.99	4.056e5	3.185e5	1.229	1.27	1.24	2160.6	YES	NO	bb	bd	51.528
3	123678-HxCDF	35.13	4.284e5	3.437e5	1.248	1.25	1.24	2238.5	YES	NO	dd	db	51.066
4	123478-HxCDF	34.98	3.962e5	3.152e5	1.182	1.26	1.24	2155.7	YES	NO	bd	bd	50.838
5	123468-HxCDF	33.34	4.175e5	3.320e5	1.197	1.26	1.24	2104.7	YES	NO	bb	bb	52.862

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.85	3.527e5	3.436e5	1.204	1.03	1.05	1739.4	YES	NO	bb	bb	48.984
2	1234789-HpCDF	41.10	3.197e5	3.013e5	1.165	1.06	1.05	1383.4	YES	NO	bd	bb	51.470

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	7.533e4	1.022e5	0.858	0.74	0.77	867.5	YES	NO	db	db	10.006
2	2378-TCDF	25.88	7.583e4	1.018e5	0.876	0.74	0.77	895.7	YES	NO	bb	bb	9.802
3	Total-tetrafurans	24.79	7.370e2	1.079e3	0.933	0.68	0.77	8.4	YES	NO	db	dd	0.094
4	1368-TCDF	22.39	9.960e4	1.319e5	1.064	0.76	0.77	1186.8	YES	NO	bb	bb	10.509
5	Total-pentafurans	32.41	4.363e5	2.872e5	0.866	1.52	1.55	1891.7	YES	NO	bb	bb	49.558
6	23478-PeCDF	31.37	4.582e5	2.969e5	0.911	1.54	1.55	1992.7	YES	NO	bb	bb	50.720
7	12378-PeCDF	30.04	4.347e5	2.900e5	0.845	1.50	1.55	1956.5	YES	NO	bb	bb	49.435
8	Total-pentafurans	28.89	7.749e4	4.941e4	0.866	1.57	1.55	335.4	YES	NO	bb	bb	8.693
9	123789-HxCDF	37.01	3.438e5	2.711e5	1.187	1.27	1.24	1855.6	YES	NO	bb	bb	49.890
10	234678-HxCDF	35.99	4.056e5	3.185e5	1.229	1.27	1.24	2160.6	YES	NO	bb	bd	51.528
11	123678-HxCDF	35.13	4.284e5	3.437e5	1.248	1.25	1.24	2238.5	YES	NO	dd	db	51.066
12	123478-HxCDF	34.98	3.962e5	3.152e5	1.182	1.26	1.24	2155.7	YES	NO	bd	bd	50.838
13	123468-HxCDF	33.34	4.175e5	3.320e5	1.197	1.26	1.24	2104.7	YES	NO	bb	bb	52.862
14	1234678-HpCDF	38.85	3.527e5	3.436e5	1.204	1.03	1.05	1739.4	YES	NO	bb	bb	48.984
15	1234789-HpCDF	41.10	3.197e5	3.013e5	1.165	1.06	1.05	1383.4	YES	NO	bd	bb	51.470
16	OCDF	45.36	4.733e5	5.396e5	1.186	0.88	0.89	2082.4	YES	NO	bb	bb	92.994
17	13468-PECDF	27.24	5.475e5	3.540e5	1.013	1.55	1.55	9441.4	YES	NO	bb	bb	51.279

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.66	6.883e4	8.714e4	1.084	0.79	0.77	811.7	YES	NO	bb	bb	11.549
2	1289-TCDD	27.12	6.029e4	7.860e4	0.975	0.77	0.77	650.5	YES	NO	bb	bd	11.436
3	2378-TCDD	26.53	6.792e4	8.768e4	1.236	0.77	0.77	749.1	YES	NO	bb	bb	10.105
4	Total-tetradoxins	26.20	1.038e5	1.301e5	1.099	0.80	0.77	805.2	YES	NO	bb	bb	17.096
5	Total-tetradoxins	25.72	3.415e4	4.291e4	1.099	0.80	0.77	378.9	YES	NO	bd	bd	5.632

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	4.002e5	2.572e5	1.252	1.56	1.55	1906.1	YES	NO	bb	bb	51.760
2	12378-PeCDD	31.63	3.290e5	2.096e5	1.087	1.57	1.55	1603.9	YES	NO	bb	bb	48.876
3	12479-PECDD	28.91	6.082e5	3.865e5	1.837	1.57	1.55	1847.3	YES	NO	bb	bb	53.387



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## HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.60	2.845e5	2.378e5	0.985	1.20	1.24	1960.3	YES	NO	bb	bb	49.580
2	123678-HxCDD	36.22	2.990e5	2.445e5	1.021	1.22	1.24	1984.4	YES	NO	db	db	48.307
3	123478-HxCDD	36.11	2.890e5	2.319e5	0.987	1.25	1.24	1968.4	YES	NO	bd	bd	50.975
4	124679-HXCDD	34.10	3.073e5	2.529e5	1.033	1.22	1.24	1984.3	YES	NO	bb	bb	52.384

## HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	2.858e5	2.609e5	1.253	1.10	1.05	1890.7	YES	NO	bd	bb	48.846
2	1234679-HPCDD	39.30	2.978e5	2.984e5	1.286	1.00	1.05	2169.4	YES	NO	bb	bd	51.878

## Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.66	6.883e4	8.714e4	1.084	0.79	0.77	811.7	YES	NO	bb	bb	11.549
2	1289-TCDD	27.12	6.029e4	7.860e4	0.975	0.77	0.77	650.5	YES	NO	bb	bd	11.436
3	2378-TCDD	26.53	6.792e4	8.768e4	1.236	0.77	0.77	749.1	YES	NO	bb	bb	10.105
4	Total-tetradoxins	26.20	1.038e5	1.301e5	1.099	0.80	0.77	805.2	YES	NO	bb	bb	17.096
5	Total-tetradoxins	25.72	3.415e4	4.291e4	1.099	0.80	0.77	378.9	YES	NO	bd	bd	5.632
6	12389-PECDD	32.03	4.002e5	2.572e5	1.252	1.56	1.55	1906.1	YES	NO	bb	bb	51.760
7	12378-PeCDD	31.63	3.290e5	2.096e5	1.087	1.57	1.55	1603.9	YES	NO	bb	bb	48.876
8	12479-PECDD	28.91	6.082e5	3.865e5	1.837	1.57	1.55	1847.3	YES	NO	bb	bb	53.387
9	123789-HxCDD	36.60	2.845e5	2.378e5	0.985	1.20	1.24	1960.3	YES	NO	bb	bb	49.580
10	123678-HxCDD	36.22	2.990e5	2.445e5	1.021	1.22	1.24	1984.4	YES	NO	db	db	48.307
11	123478-HxCDD	36.11	2.890e5	2.319e5	0.987	1.25	1.24	1968.4	YES	NO	bd	bd	50.975
12	124679-HXCDD	34.10	3.073e5	2.529e5	1.033	1.22	1.24	1984.3	YES	NO	bb	bb	52.384
13	1234678-HpCDD	40.35	2.858e5	2.609e5	1.253	1.10	1.05	1890.7	YES	NO	bd	bb	48.846
14	1234679-HPCDD	39.30	2.978e5	2.984e5	1.286	1.00	1.05	2169.4	YES	NO	bb	bd	51.878
15	OCDD	45.11	4.553e5	5.144e5	1.103	0.89	0.89	2832.1	YES	NO	bb	bb	95.778

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	7.533e4	1.022e5	0.858	0.74	0.77	867.5	YES	NO	db	db	10.006
2	2378-TCDF	25.88	7.583e4	1.018e5	0.876	0.74	0.77	895.7	YES	NO	bb	bb	9.802
3	Total-tetrafurans	24.79	7.370e2	1.079e3	0.933	0.68	0.77	8.4	YES	NO	db	dd	0.094
4	1368-TCDF	22.39	9.960e4	1.319e5	1.064	0.76	0.77	1186.8	YES	NO	bb	bb	10.509
5	Total-pentafurans	32.41	4.363e5	2.872e5	0.866	1.52	1.55	1891.7	YES	NO	bb	bb	49.558
6	23478-PeCDF	31.37	4.582e5	2.969e5	0.911	1.54	1.55	1992.7	YES	NO	bb	bb	50.720
7	12378-PeCDF	30.04	4.347e5	2.900e5	0.845	1.50	1.55	1956.5	YES	NO	bb	bb	49.435
8	Total-pentafurans	28.89	7.749e4	4.941e4	0.866	1.57	1.55	335.4	YES	NO	bb	bb	8.693
9	123789-HxCDF	37.01	3.438e5	2.711e5	1.187	1.27	1.24	1855.6	YES	NO	bb	bb	49.890
10	234678-HxCDF	35.99	4.056e5	3.185e5	1.229	1.27	1.24	2160.6	YES	NO	bb	bd	51.528
11	123678-HxCDF	35.13	4.284e5	3.437e5	1.248	1.25	1.24	2238.5	YES	NO	dd	db	51.066
12	123478-HxCDF	34.98	3.962e5	3.152e5	1.182	1.26	1.24	2155.7	YES	NO	bd	bd	50.838
13	123468-HXCDF	33.34	4.175e5	3.320e5	1.197	1.26	1.24	2104.7	YES	NO	bb	bb	52.862
14	1234678-HpCDF	38.85	3.527e5	3.436e5	1.204	1.03	1.05	1739.4	YES	NO	bb	bb	48.984
15	1234789-HpCDF	41.10	3.197e5	3.013e5	1.165	1.06	1.05	1383.4	YES	NO	bd	bb	51.470
16	OCDF	45.36	4.733e5	5.396e5	1.186	0.88	0.89	2082.4	YES	NO	bb	bb	92.994
17	13468-PECDF	27.24	5.475e5	3.540e5	1.013	1.55	1.55	9441.4	YES	NO	bb	bb	51.279
18	1368-TCDD	23.66	6.883e4	8.714e4	1.084	0.79	0.77	811.7	YES	NO	bb	bb	11.549
19	1289-TCDD	27.12	6.029e4	7.860e4	0.975	0.77	0.77	650.5	YES	NO	bb	bd	11.436
20	2378-TCDD	26.53	6.792e4	8.768e4	1.236	0.77	0.77	749.1	YES	NO	bb	bb	10.105
21	Total-tetradiioxins	26.20	1.038e5	1.301e5	1.099	0.80	0.77	805.2	YES	NO	bb	bb	17.096
22	Total-tetradiioxins	25.72	3.415e4	4.291e4	1.099	0.80	0.77	378.9	YES	NO	bd	bd	5.632
23	12389-PECDD	32.03	4.002e5	2.572e5	1.252	1.56	1.55	1906.1	YES	NO	bb	bb	51.760
24	12378-PeCDD	31.63	3.290e5	2.096e5	1.087	1.57	1.55	1603.9	YES	NO	bb	bb	48.876
25	12479-PECDD	28.91	6.082e5	3.865e5	1.837	1.57	1.55	1847.3	YES	NO	bb	bb	53.387
26	123789-HxCDD	36.60	2.845e5	2.378e5	0.985	1.20	1.24	1960.3	YES	NO	bb	bb	49.580
27	123678-HxCDD	36.22	2.990e5	2.445e5	1.021	1.22	1.24	1984.4	YES	NO	db	db	48.307
28	123478-HxCDD	36.11	2.890e5	2.319e5	0.987	1.25	1.24	1968.4	YES	NO	bd	bd	50.975
29	124679-HXCDD	34.10	3.073e5	2.529e5	1.033	1.22	1.24	1984.3	YES	NO	bb	bb	52.384
30	1234678-HpCDD	40.35	2.858e5	2.609e5	1.253	1.10	1.05	1890.7	YES	NO	bd	bb	48.846
31	1234679-HPCDD	39.30	2.978e5	2.984e5	1.286	1.00	1.05	2169.4	YES	NO	bb	bd	51.878
32	OCDD	45.11	4.553e5	5.144e5	1.103	0.89	0.89	2832.1	YES	NO	bb	bb	95.778

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.86	1.802e4					0.8	NO		bb		
2	FUNCTION1 PFK	27.44	9.566e3					0.7	NO		bb		
3	FUNCTION1 PFK	27.12	3.959e3					0.4	NO		bb		
4	FUNCTION1 PFK	26.97	4.648e4					1.4	NO		bb		
5	FUNCTION1 PFK	26.85	1.177e4					0.8	NO		bb		
6	FUNCTION1 PFK	26.26	3.797e3					0.4	NO		bb		
7	FUNCTION1 PFK	25.26	1.715e4					0.9	NO		bb		
8	FUNCTION1 PFK	24.10	5.099e4					1.3	NO		bb		
9	FUNCTION1 PFK	22.39	1.400e4					0.8	NO		bb		
10	FUNCTION1 PFK	22.18	2.255e4					1.2	NO		bb		
11	FUNCTION1 PFK	21.91	1.341e4					0.9	NO		bb		
12	FUNCTION1 PFK	21.72	1.562e4					0.9	NO		bb		
13	FUNCTION1 PFK	21.54	1.217e4					0.8	NO		bb		
14	FUNCTION1 PFK	21.48	3.458e4					0.9	NO		bb		
15	FUNCTION1 PFK	28.06	2.191e4					1.2	NO		bb		

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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

## PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.07	6.452e3					0.9	NO		bd		0.000
2	FUNCTION2 PFK	29.81	1.293e4					1.6	NO		db		0.000
3	FUNCTION2 PFK	29.78	4.561e3					1.1	NO		bd		0.000
4	FUNCTION2 PFK	29.68	5.711e3					1.0	NO		db		0.000
5	FUNCTION2 PFK	29.64	1.700e4					1.8	NO		bd		0.000
6	FUNCTION2 PFK	29.47	2.480e4					1.9	NO		db		0.000
7	FUNCTION2 PFK	29.36	1.696e4					1.9	NO		bd		0.000
8	FUNCTION2 PFK	29.29	2.861e3					0.7	NO		bb		0.000
9	FUNCTION2 PFK	29.16	1.091e4					1.2	NO		bb		0.000
10	FUNCTION2 PFK	28.90	2.320e3					0.6	NO		bb		0.000
11	FUNCTION2 PFK	28.80	2.770e3					0.8	NO		bb		0.000
12	FUNCTION2 PFK	28.54	5.899e3					1.2	NO		db		0.000
13	FUNCTION2 PFK	28.50	1.397e4					2.0	NO		bd		0.000
14	FUNCTION2 PFK	28.32	1.175e3					0.5	NO		bb		0.000
15	FUNCTION2 PFK	31.69	3.508e3					0.9	NO		bb		0.000
16	FUNCTION2 PFK	31.63	1.016e4					1.4	NO		bb		0.000
17	FUNCTION2 PFK	31.53	8.675e3					0.8	NO		bb		0.000
18	FUNCTION2 PFK	31.49	1.869e3					0.7	NO		bb		0.000
19	FUNCTION2 PFK	31.40	1.095e4					1.3	NO		bb		0.000
20	FUNCTION2 PFK	31.20	1.018e4					1.4	NO		db		0.000
21	FUNCTION2 PFK	31.14	9.902e3					1.4	NO		bd		0.000
22	FUNCTION2 PFK	31.04	2.521e3					0.6	NO		bb		0.000
23	FUNCTION2 PFK	30.92	4.486e3					1.1	NO		db		0.000
24	FUNCTION2 PFK	30.88	6.090e3					1.2	NO		bd		0.000
25	FUNCTION2 PFK	30.81	3.856e3					0.6	NO		bb		0.000
26	FUNCTION2 PFK	30.76	7.571e3					1.5	NO		db		0.000
27	FUNCTION2 PFK	30.72	1.009e4					1.3	NO		bd		0.000
28	FUNCTION2 PFK	30.37	7.200e3					1.1	NO		db		0.000
29	FUNCTION2 PFK	30.32	1.863e4					2.0	NO		bd		0.000
30	FUNCTION2 PFK	30.12	8.431e3					1.5	NO		db		0.000
31	FUNCTION2 PFK	32.82	1.531e4					1.7	NO		bb		0.000
32	FUNCTION2 PFK	32.76	2.617e4					2.0	NO		db		0.000
33	FUNCTION2 PFK	32.66	9.185e3					1.4	NO		dd		0.000
34	FUNCTION2 PFK	32.61	2.742e4					2.3	NO		dd		0.000
35	FUNCTION2 PFK	32.51	2.015e4					1.8	NO		dd		0.000
36	FUNCTION2 PFK	32.38	1.541e4					2.0	NO		bd		0.000
37	FUNCTION2 PFK	32.27	1.620e3					0.7	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.22	6.522e3					1.4	NO		bb		0.000
39	FUNCTION2 PFK	31.96	8.002e3					1.0	NO		bb		0.000
40	FUNCTION2 PFK	31.73	2.461e3					0.8	NO		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.03	4.935e3					0.7	NO		bb		0.000
2	FUNCTION3 PFK	33.76	5.855e3					0.9	NO		bb		0.000
3	FUNCTION3 PFK	33.65	2.046e4					1.3	NO		bb		0.000
4	FUNCTION3 PFK	33.29	1.061e4					1.2	NO		bb		0.000
5	FUNCTION3 PFK	33.10	1.235e4					0.9	NO		bb		0.000
6	FUNCTION3 PFK	36.89	5.964e3					0.8	NO		bb		0.000
7	FUNCTION3 PFK	36.67	1.246e4					1.3	NO		db		0.000
8	FUNCTION3 PFK	36.59	3.645e4					2.5	NO		bd		0.000
9	FUNCTION3 PFK	36.47	1.165e4					0.9	NO		bb		0.000
10	FUNCTION3 PFK	36.40	4.348e3					0.7	NO		bb		0.000
11	FUNCTION3 PFK	36.32	3.325e4					1.9	NO		bb		0.000
12	FUNCTION3 PFK	36.24	1.791e4					1.4	NO		db		0.000
13	FUNCTION3 PFK	36.19	2.043e4					1.6	NO		bd		0.000
14	FUNCTION3 PFK	35.34	7.839e3					0.9	NO		bb		0.000
15	FUNCTION3 PFK	35.04	1.130e4					1.2	NO		bb		0.000
16	FUNCTION3 PFK	34.98	1.757e4					1.3	NO		bb		0.000
17	FUNCTION3 PFK	34.66	3.150e4					2.1	NO		db		0.000
18	FUNCTION3 PFK	34.63	2.204e4					2.2	NO		bd		0.000
19	FUNCTION3 PFK	34.51	2.015e4					1.6	NO		db		0.000
20	FUNCTION3 PFK	34.43	2.373e4					2.0	NO		dd		0.000
21	FUNCTION3 PFK	34.39	1.491e4					1.8	NO		bd		0.000
22	FUNCTION3 PFK	37.97	9.526e3					1.1	NO		bb		0.000
23	FUNCTION3 PFK	37.61	4.551e3					0.8	NO		bb		0.000
24	FUNCTION3 PFK	37.03	2.911e4					1.8	NO		db		0.000
25	FUNCTION3 PFK	36.98	3.696e3					0.6	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.71	9.457e3					0.9	NO		bb		
2	FUNCTION4 PFK	42.55	1.416e3					0.4	NO		bb		
3	FUNCTION4 PFK	42.33	2.050e4					1.4	NO		bb		
4	FUNCTION4 PFK	40.90	3.965e3					0.7	NO		bb		
5	FUNCTION4 PFK	40.40	4.095e3					0.7	NO		bb		
6	FUNCTION4 PFK	40.20	2.031e3					0.6	NO		bb		
7	FUNCTION4 PFK	39.89	7.818e3					1.2	NO		bb		
8	FUNCTION4 PFK	39.30	3.577e3					0.7	NO		db		
9	FUNCTION4 PFK	39.23	1.513e4					1.5	NO		bd		
10	FUNCTION4 PFK	38.50	5.085e3					0.8	NO		bb		
11	FUNCTION4 PFK	38.22	4.047e5					4.0	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.44	6.785e3					1.5	NO		db		
2	FUNCTION5 PFK	46.41	4.268e3					1.1	NO		bd		
3	FUNCTION5 PFK	46.32	3.211e3					0.9	NO		bb		
4	FUNCTION5 PFK	46.25	5.782e3					1.5	NO		bb		
5	FUNCTION5 PFK	46.21	2.148e3					0.5	NO		bb		
6	FUNCTION5 PFK	45.92	1.180e4					1.5	NO		bb		
7	FUNCTION5 PFK	45.78	2.503e3					0.9	NO		bb		
8	FUNCTION5 PFK	45.72	1.015e3					0.6	NO		bb		
9	FUNCTION5 PFK	45.60	1.955e3					0.7	NO		bb		
10	FUNCTION5 PFK	45.57	1.104e3					0.6	NO		bb		
11	FUNCTION5 PFK	45.45	1.042e4					1.3	NO		bb		
12	FUNCTION5 PFK	44.52	3.296e3					0.9	NO		bb		
13	FUNCTION5 PFK	44.38	2.843e4					2.4	NO		bb		
14	FUNCTION5 PFK	44.01	6.535e3					1.0	NO		bb		
15	FUNCTION5 PFK	43.51	4.124e3					1.1	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.80	1.077e2					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	27.23	8.014e1					1.9	NO		bb		0.000
3	FUNCTION1 HXCD...	25.90	4.015e2					4.7	YES		db		0.000
4	FUNCTION1 HXCD...	25.72	1.078e2					2.6	NO		bd		0.000
5	FUNCTION1 HXCD...	22.96	9.275e1					1.5	NO		bb		0.000
6	FUNCTION1 HXCD...	21.89	1.274e2					3.2	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	24.78	7.643e1					1.2	NO		bb		0.000
2	FUNCTION1 HPCD...	24.10	1.351e2					2.2	NO		db		0.000
3	FUNCTION1 HPCD...	23.90	1.347e2					2.0	NO		dd		0.000
4	FUNCTION1 HPCD...	23.73	7.182e1					1.5	NO		dd		0.000
5	FUNCTION1 HPCD...	23.60	1.453e2					1.7	NO		bd		0.000
6	FUNCTION1 HPCD...	22.30	7.288e1					1.3	NO		bb		0.000
7	FUNCTION1 HPCD...	21.72	1.050e2					2.3	NO		db		0.000
8	FUNCTION1 HPCD...	21.65	1.092e2					1.7	NO		bd		0.000
9	FUNCTION1 HPCD...	27.77	1.087e2					2.2	NO		db		0.000
10	FUNCTION1 HPCD...	27.64	1.853e2					2.8	NO		bd		0.000
11	FUNCTION1 HPCD...	26.97	7.971e1					1.8	NO		db		0.000
12	FUNCTION1 HPCD...	26.89	8.957e1					2.2	NO		bd		0.000
13	FUNCTION1 HPCD...	25.88	1.706e2					2.4	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.25	4.855e2					9.2	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	34.13	1.383e2					3.3	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.71	9.570e1					1.7	NO		bb		0.000
2	FUNCTION4 NCDPE	40.15	8.625e1					2.5	NO		bb		0.000
3	FUNCTION4 NCDPE	39.82	7.102e1					1.6	NO		bb		0.000

**ETHERS6**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.11	7.207e1					2.3	NO		bb		0.000

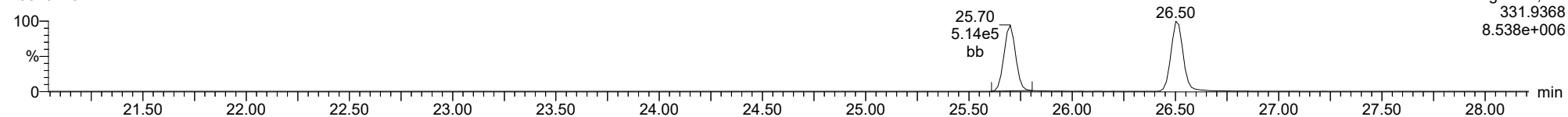


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**ID:** ICVCR, **Name:** 23020110, **Date:** 01-Feb-2023, **Time:** 20:23:25, **Conditions:** AUTOSPEC01, **User:** pk

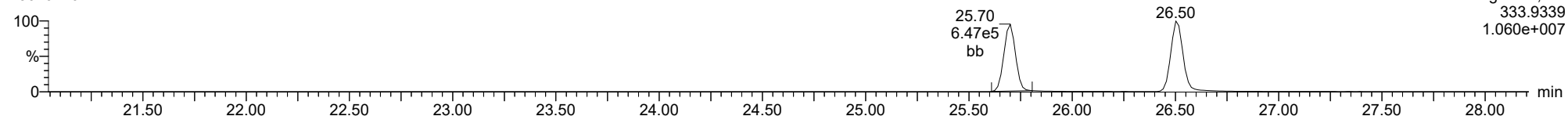
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23020110



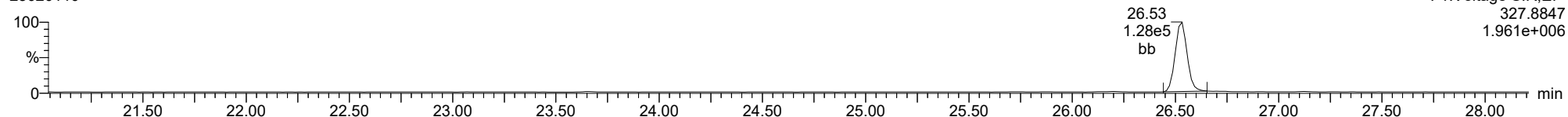
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23020110



**37CL-2378-TCDD**

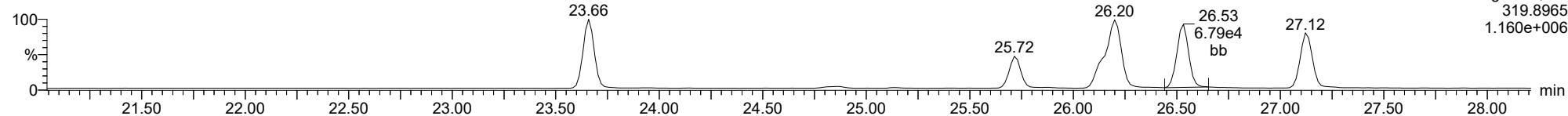
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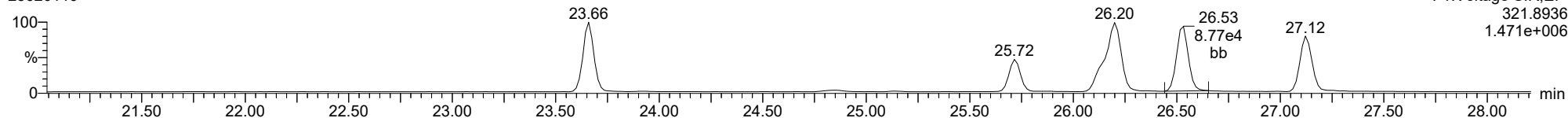
**2378-TCDD**

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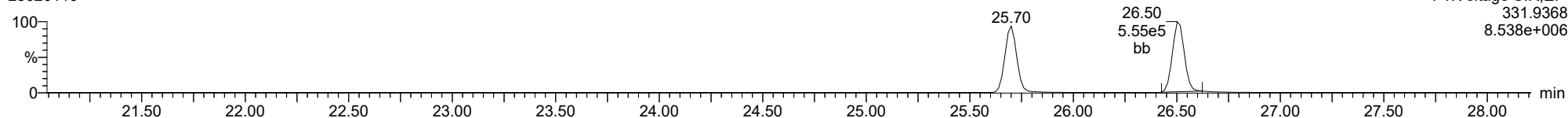
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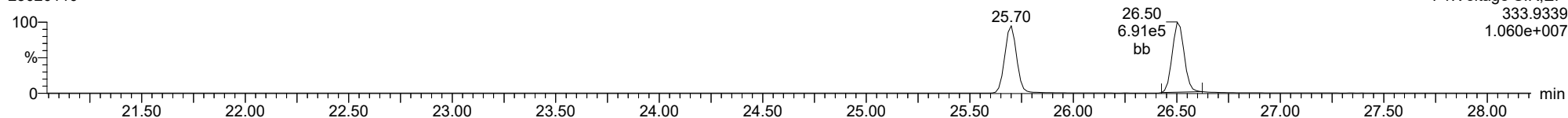
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23020110



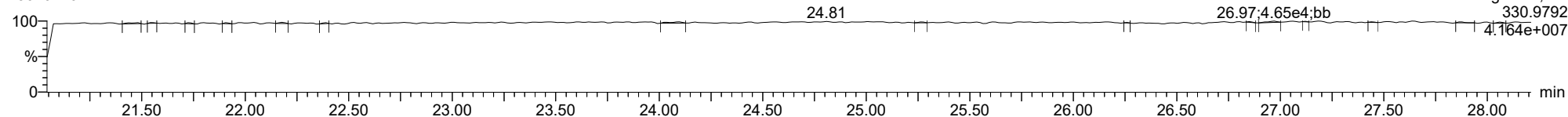
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23020110



**FUNCTION1 PFK**

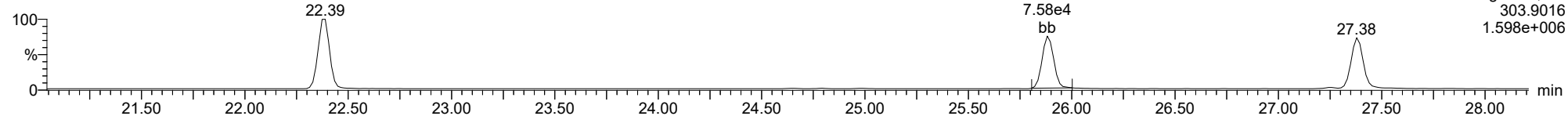
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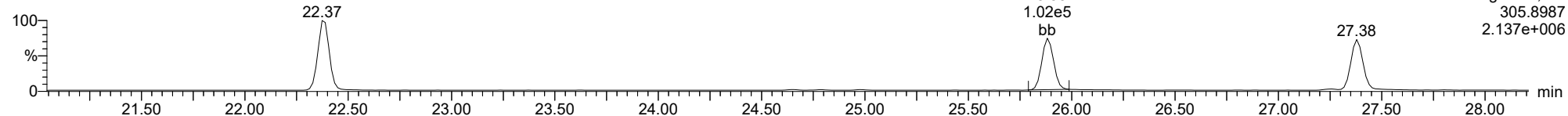
**2378-TCDF**

23020110



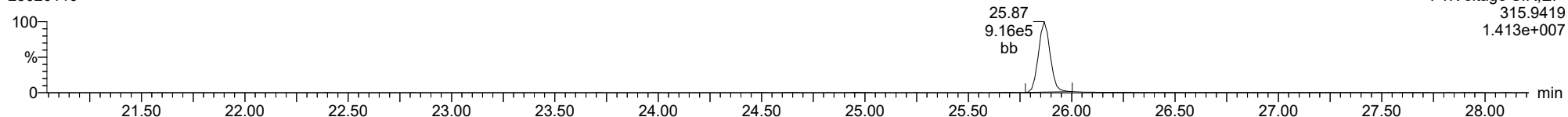
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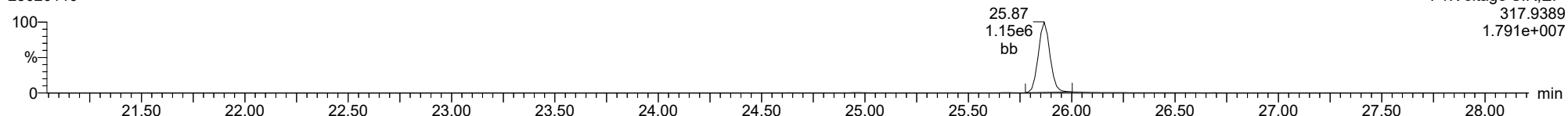
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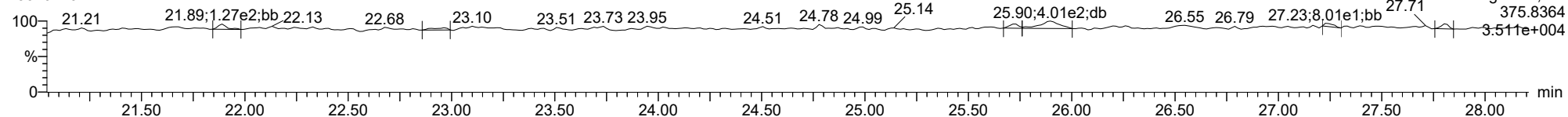
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**FUNCTION1 HXCDPE**

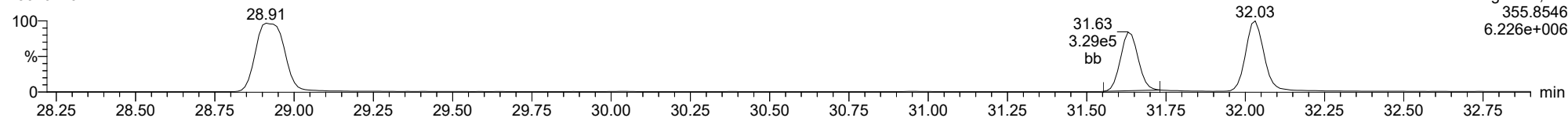
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**12378-PeCDD**

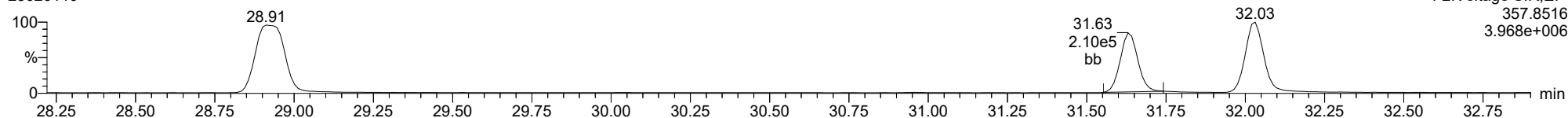
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F2:Voltage SIR,EI+  
355.8546  
6.226e+006

**12378-PeCDD**

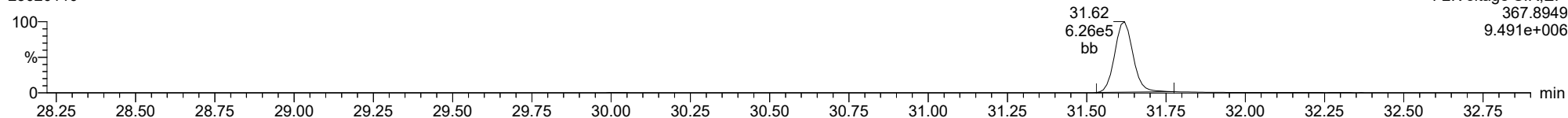
23020110



F2:Voltage SIR,EI+  
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3.968e+006

**13C-12378-PeCDD**

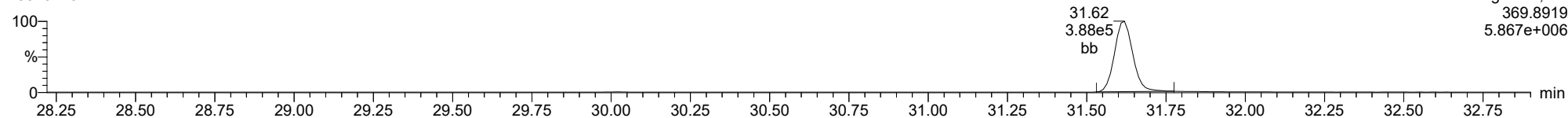
23020110



F2:Voltage SIR,EI+  
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9.491e+006

**13C-12378-PeCDD**

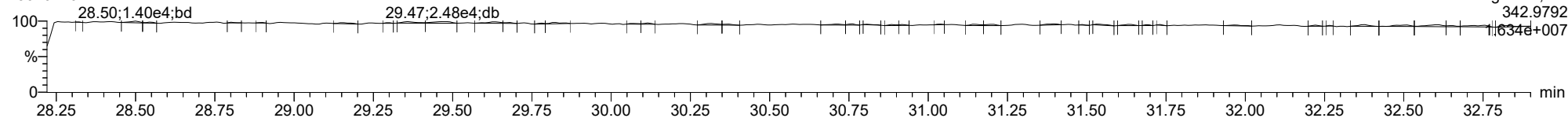
23020110



F2:Voltage SIR,EI+  
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5.867e+006

**FUNCTION2 PFK**

23020110

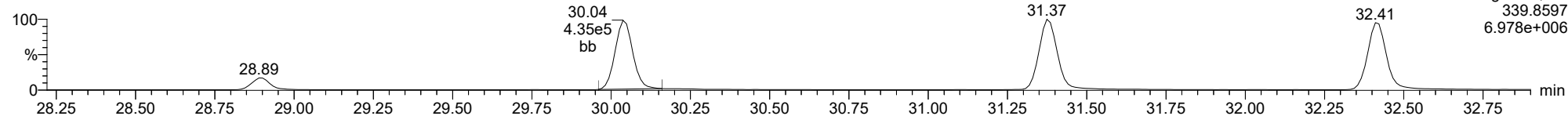


F2:Voltage SIR,EI+  
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1.634e+007

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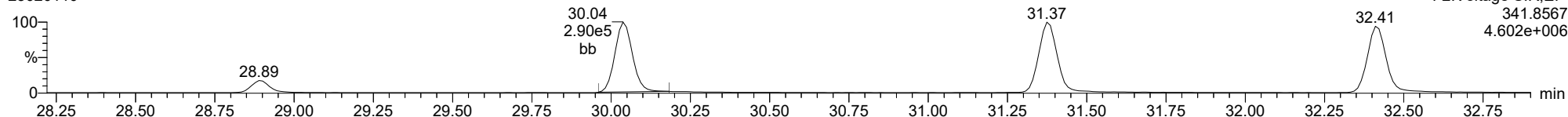
**12378-PeCDF**

23020110



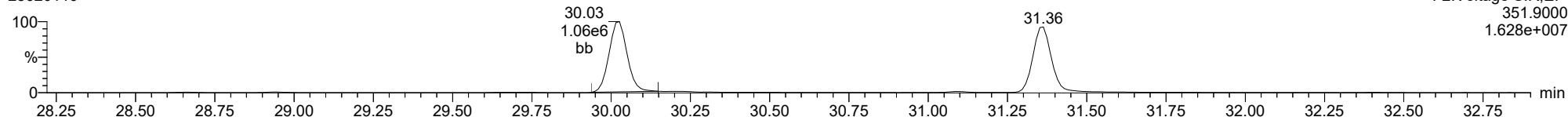
**12378-PeCDF**

23020110



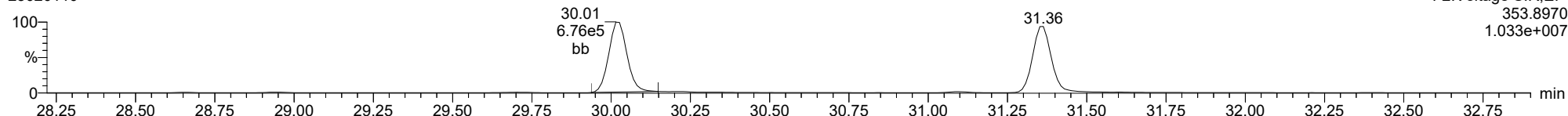
**13C-12378-PeCDF**

23020110



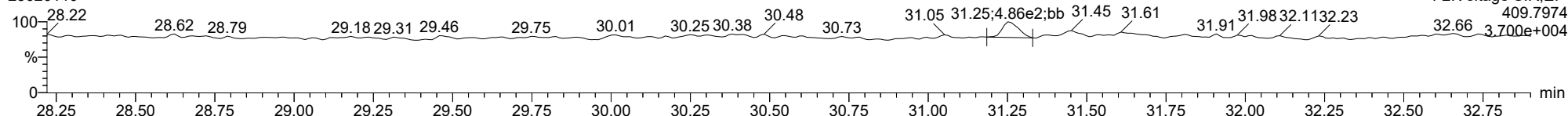
**13C-12378-PeCDF**

23020110



**FUNCTION2 HPCDPE**

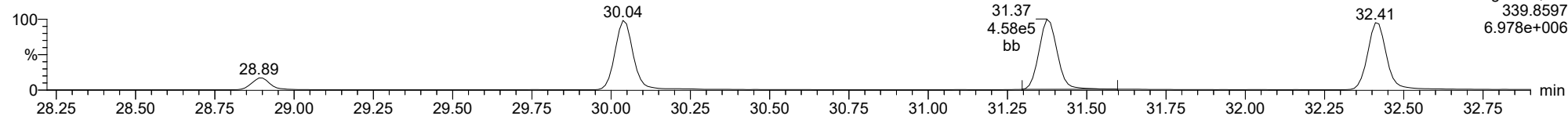
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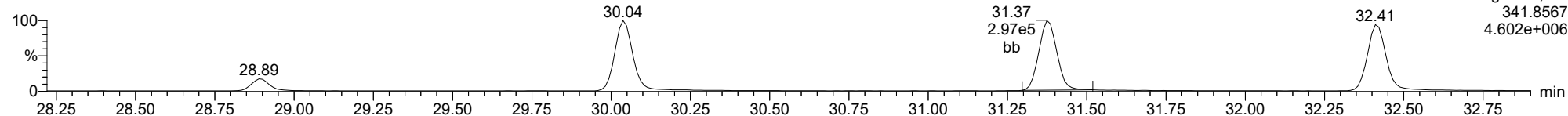
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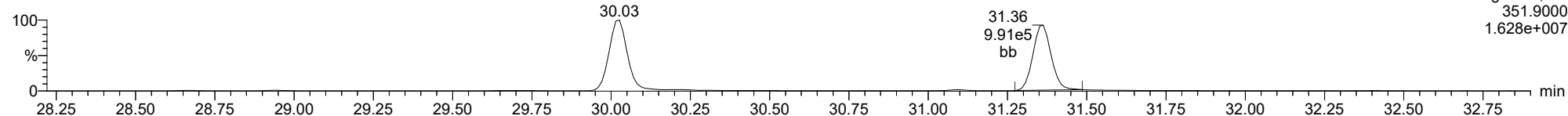
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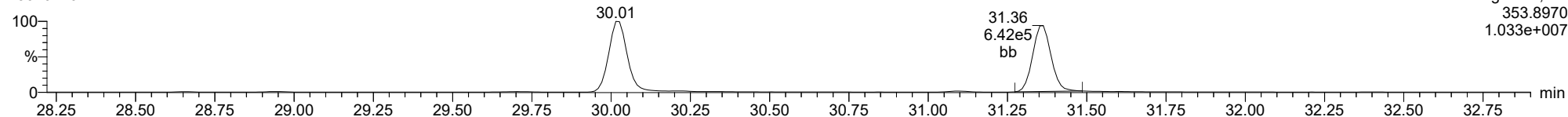
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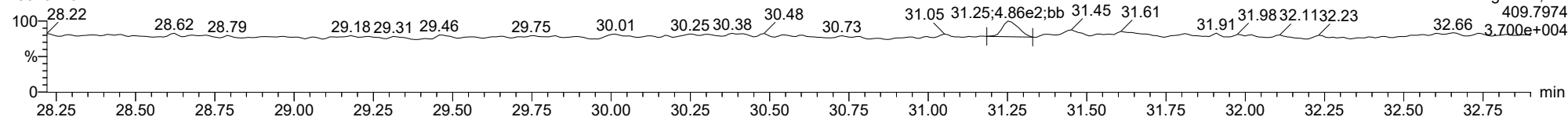
**13C-23478-PeCDF**

23020110



**FUNCTION2 HPCDPE**

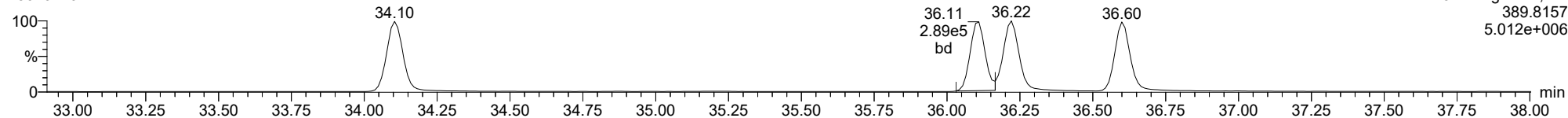
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

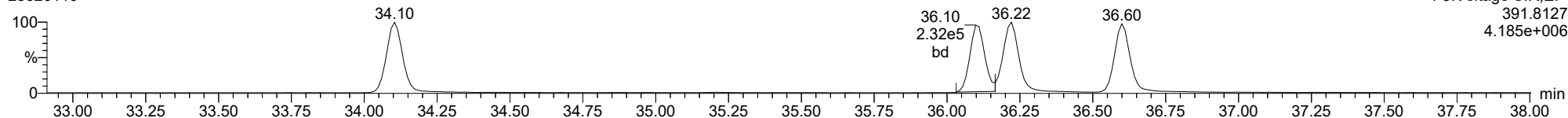
**123478-HxCDD**

23020110



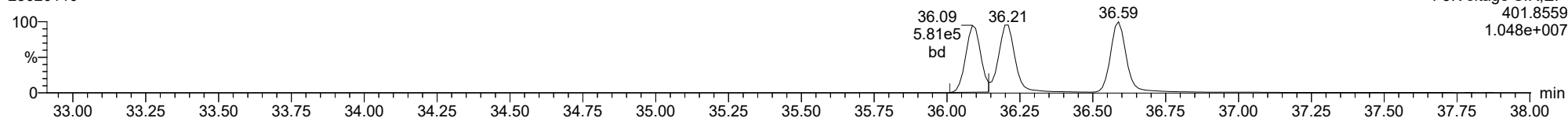
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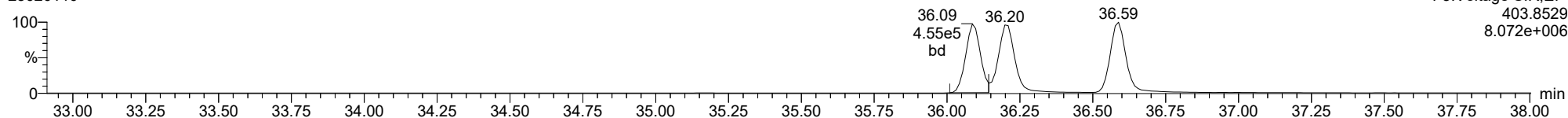
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23020110



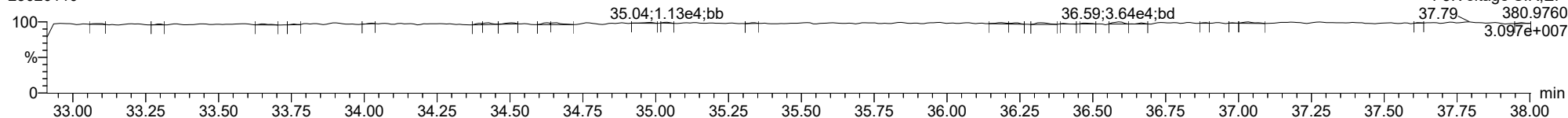
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23020110



**FUNCTION3 PFK**

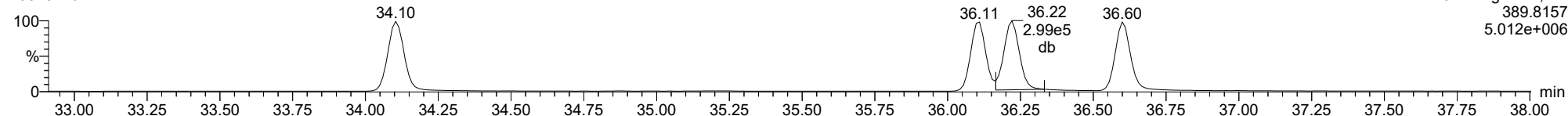
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

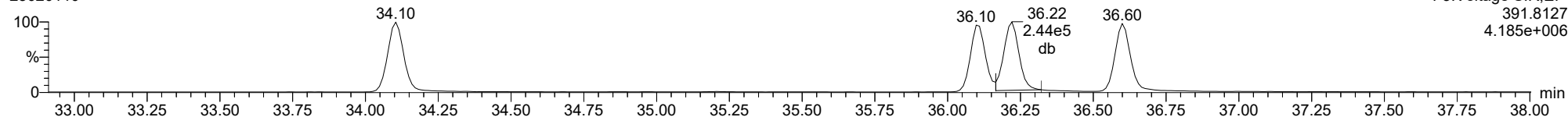
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23020110



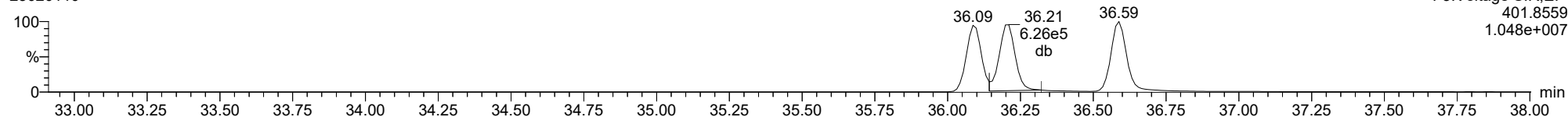
**123678-HxCDD**

23020110



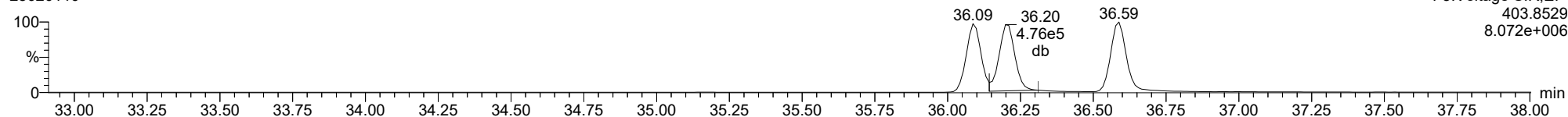
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**13C-123678-HxCDD**

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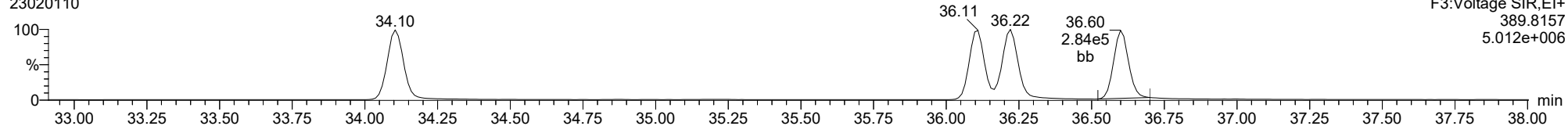




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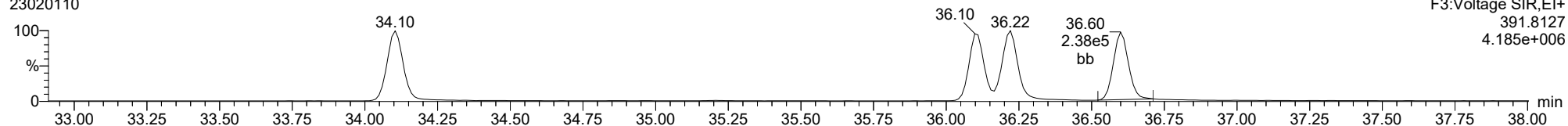
**123789-HxCDD**

23020110



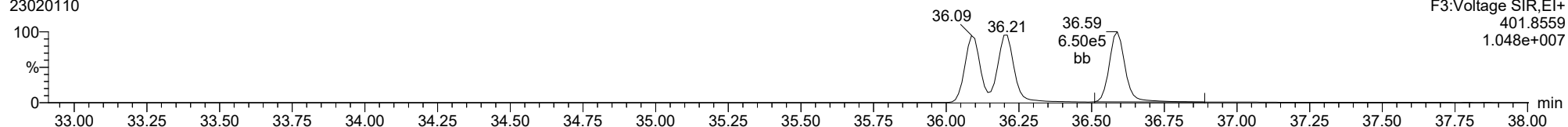
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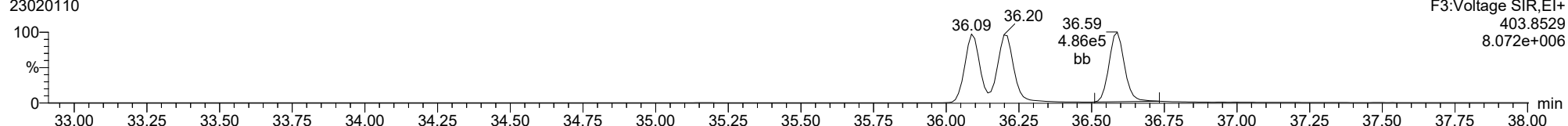
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**13C-123789-HxCDD**

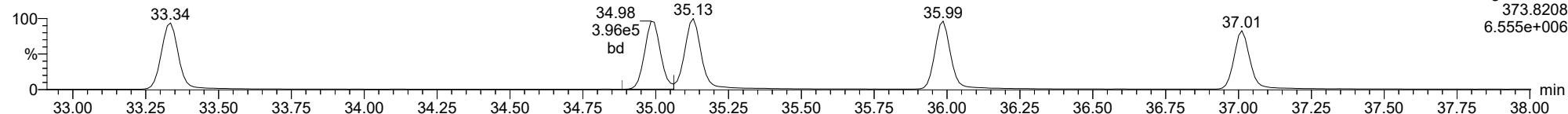
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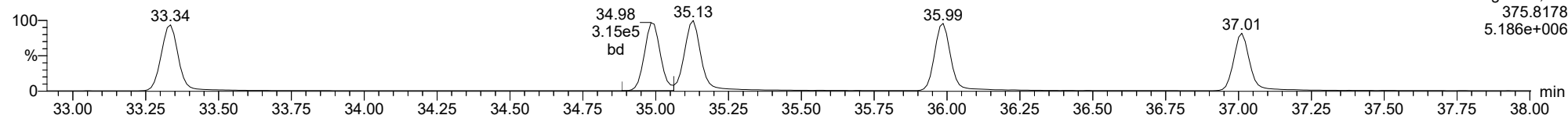
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23020110



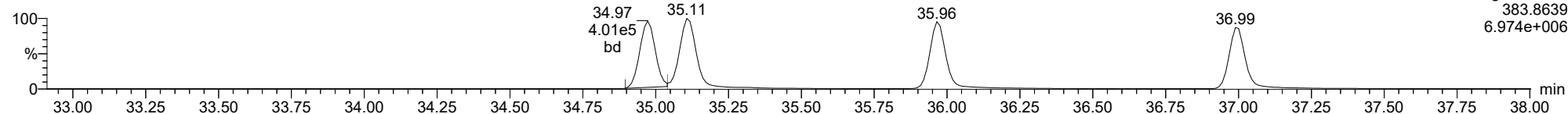
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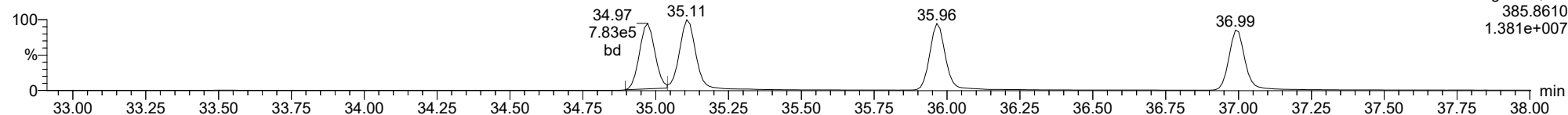
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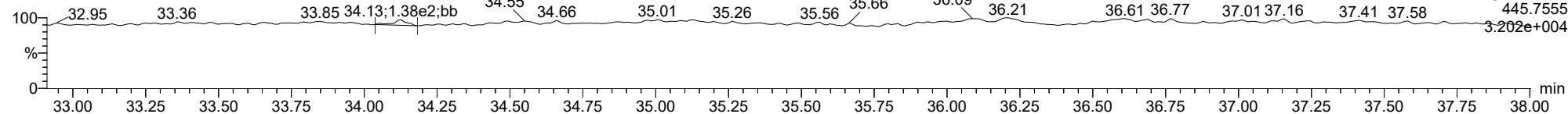
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23020110



**FUNCTION3 OCDPE**

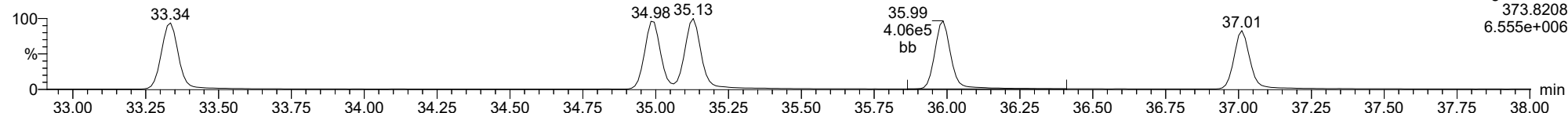
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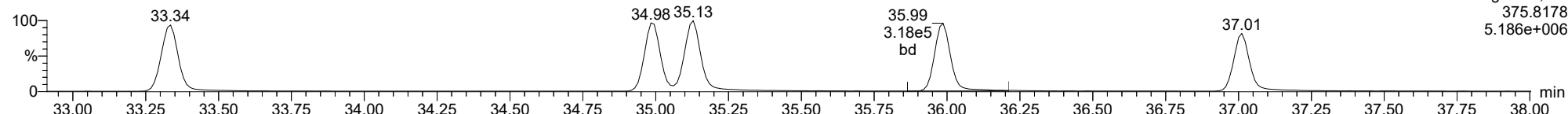
**234678-HxCDF**

23020110



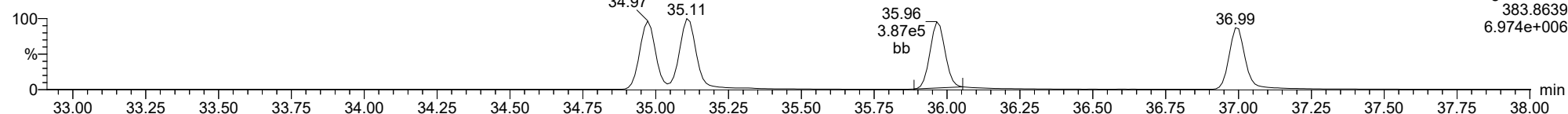
**234678-HxCDF**

23020110



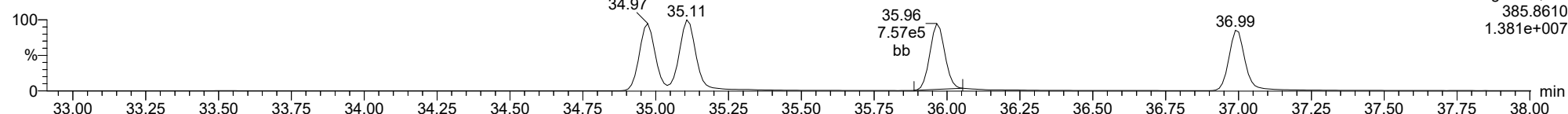
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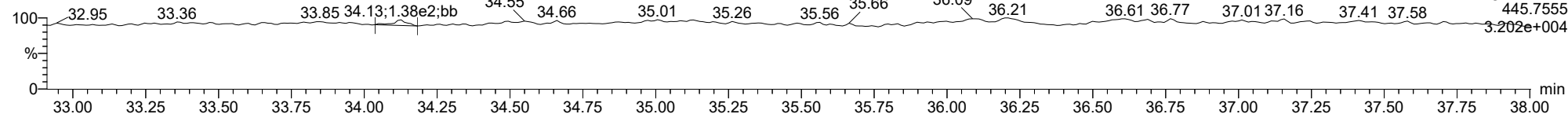
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**FUNCTION3 OCDPE**

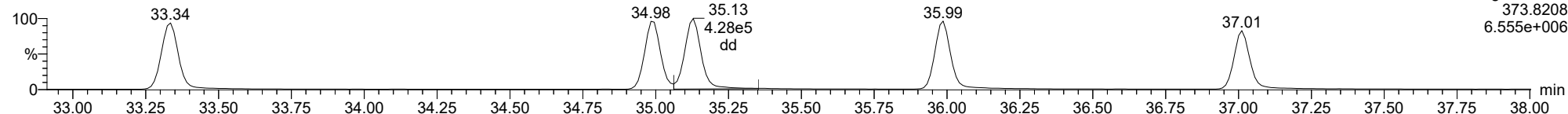
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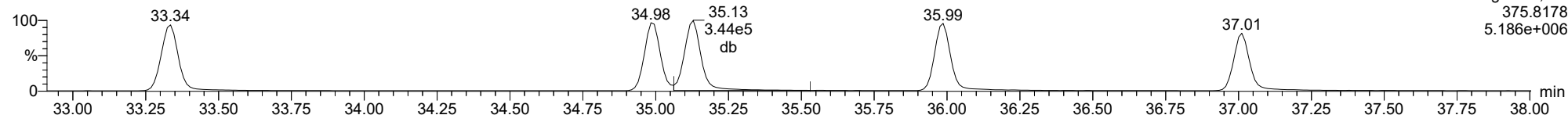
123678-HxCDF

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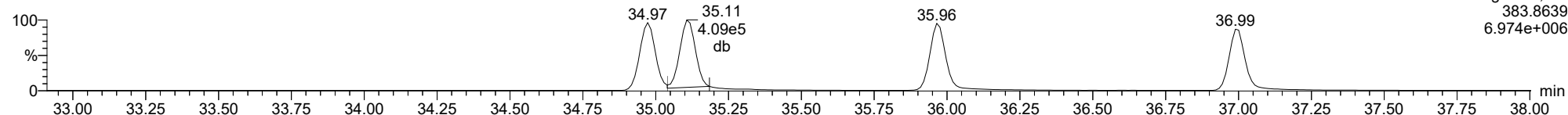
123678-HxCDF

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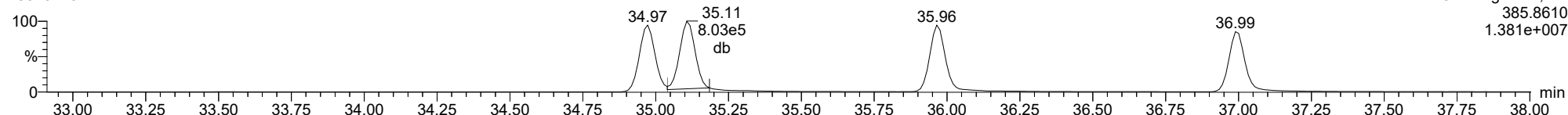
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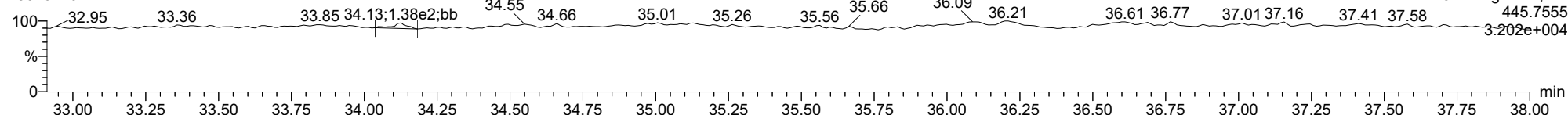
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FUNCTION3 OCDPE

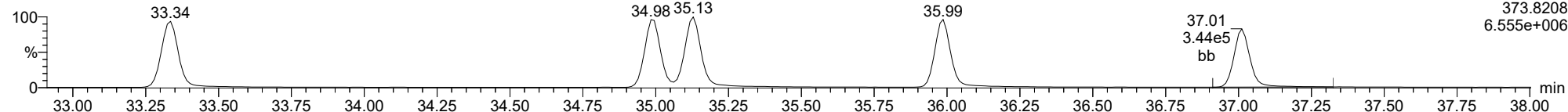
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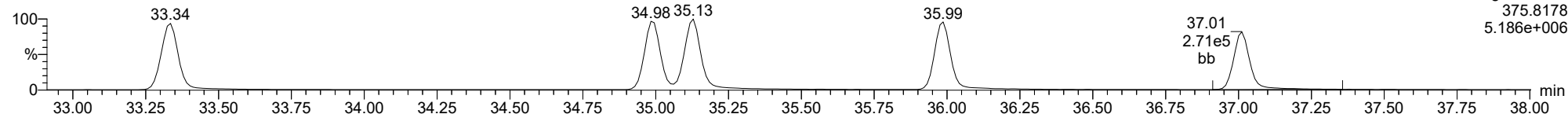
**123789-HxCDF**

23020110



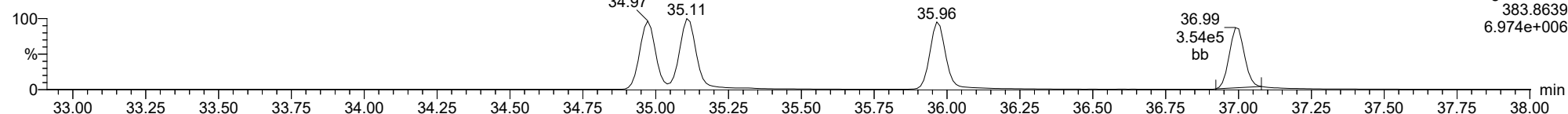
**123789-HxCDF**

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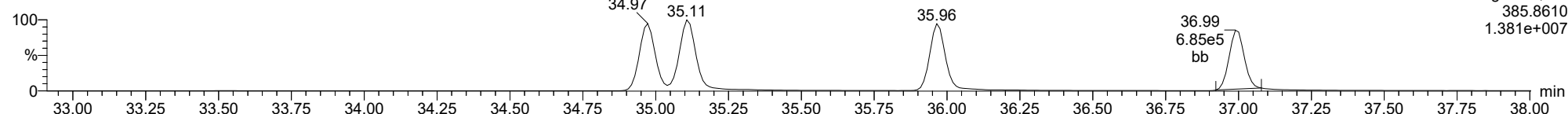
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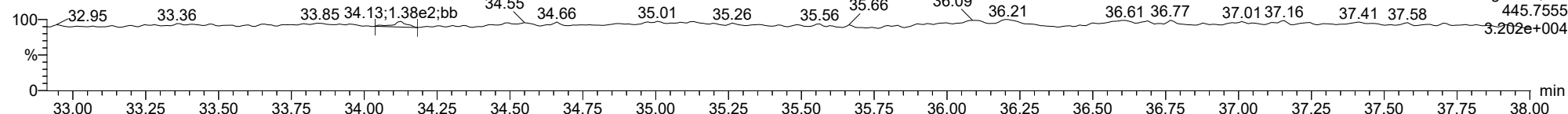
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**FUNCTION3 OCDPE**

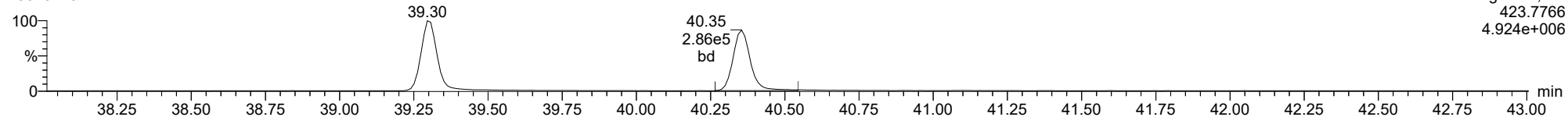
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**1234678-HpCDD**

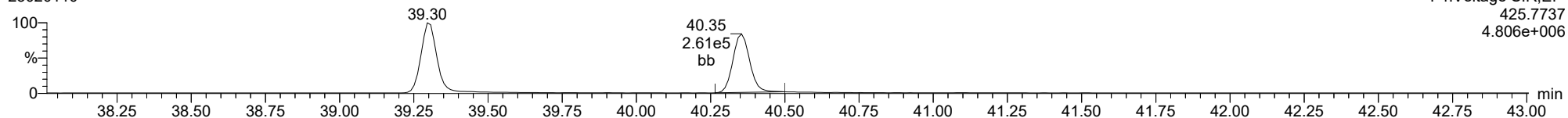
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F4:Voltage SIR,El+  
423.7766  
4.924e+006

**1234678-HpCDD**

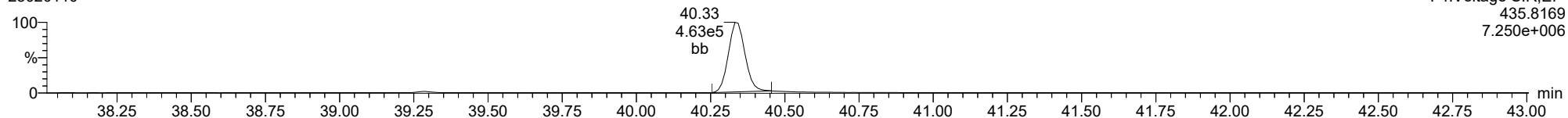
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F4:Voltage SIR,El+  
425.7737  
4.806e+006

**13C-1234678-HpCDD**

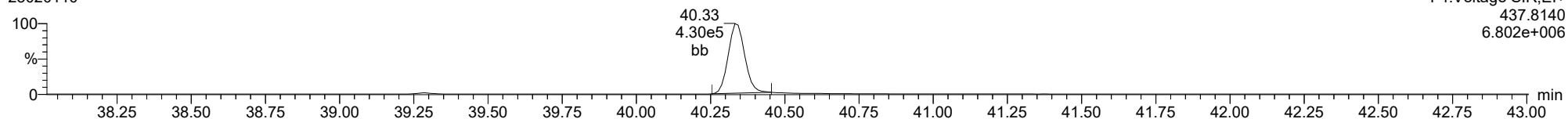
23020110



F4:Voltage SIR,El+  
435.8169  
7.250e+006

**13C-1234678-HpCDD**

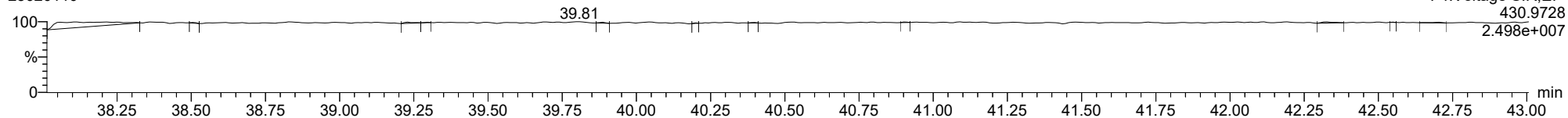
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F4:Voltage SIR,El+  
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**FUNCTION4 PFK**

23020110

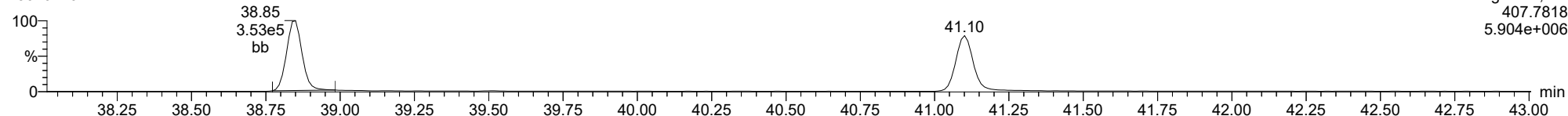


F4:Voltage SIR,El+  
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2.498e+007

ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

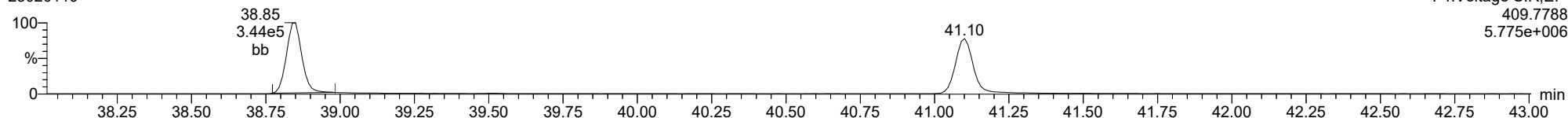
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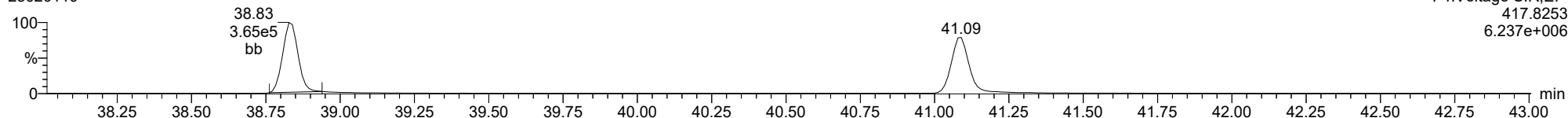
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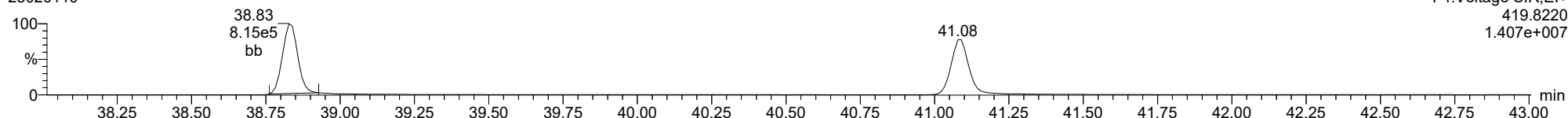
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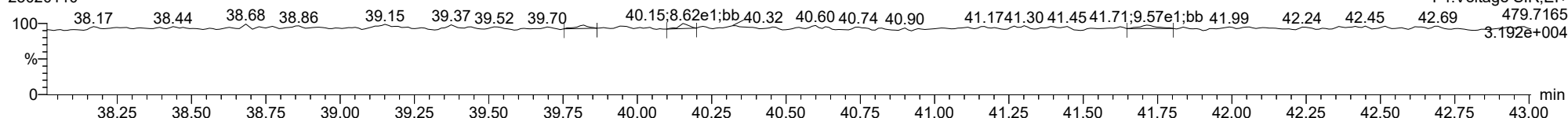
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FUNCTION4 NCDPE

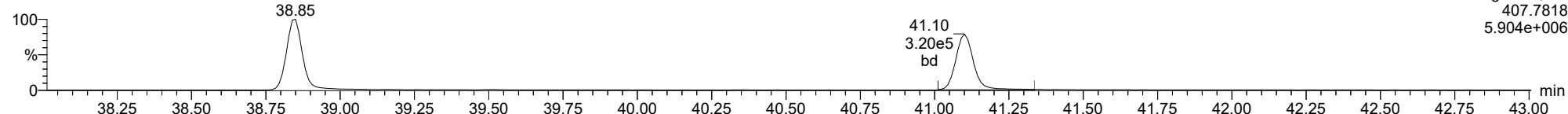
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

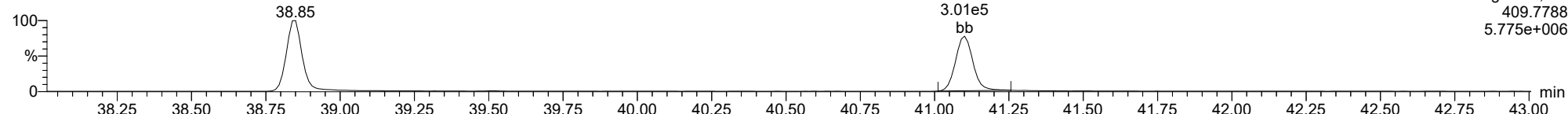
1234789-HpCDF

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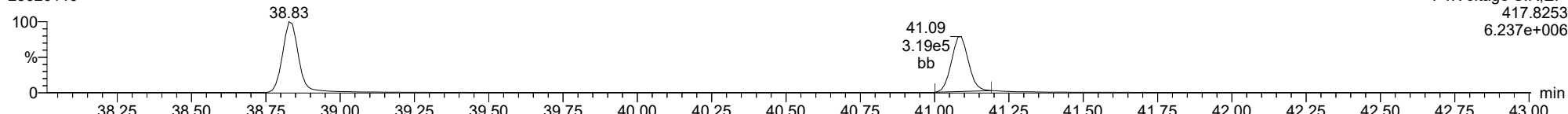
1234789-HpCDF

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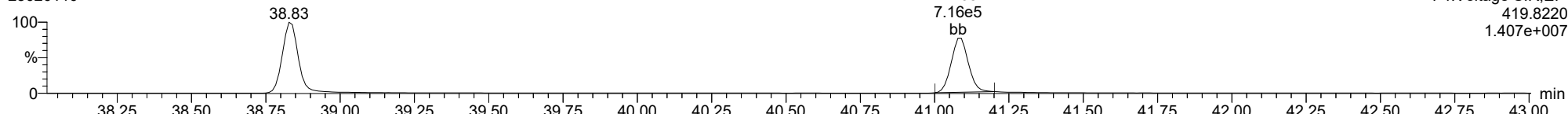
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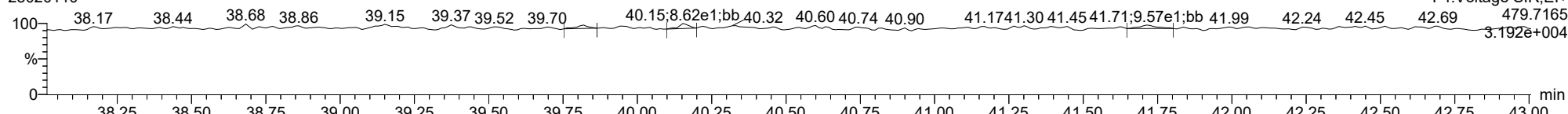
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FUNCTION4 NCDPE

23020110

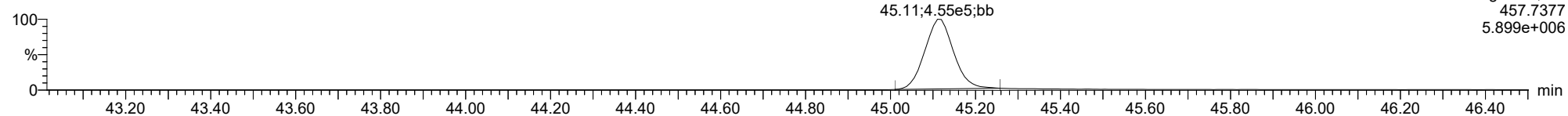




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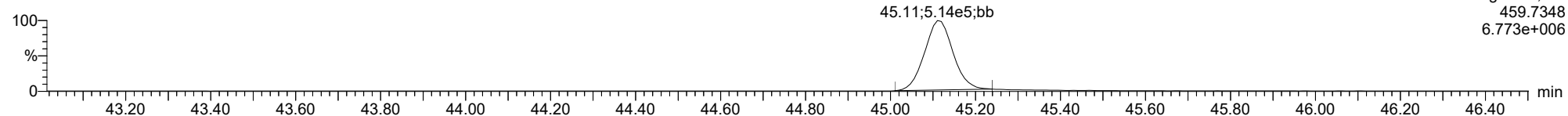
**OCDD**

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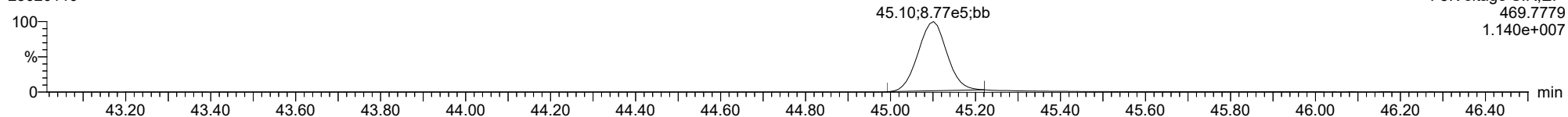
**OCDD**

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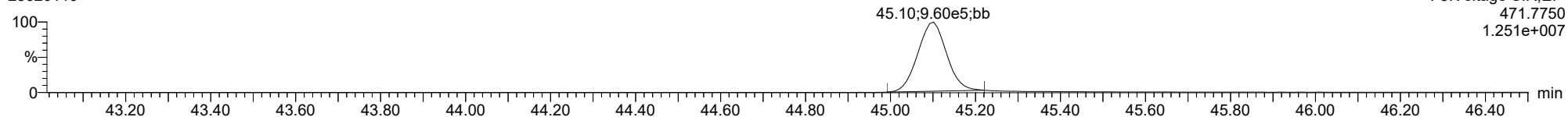
**13C-OCDD**

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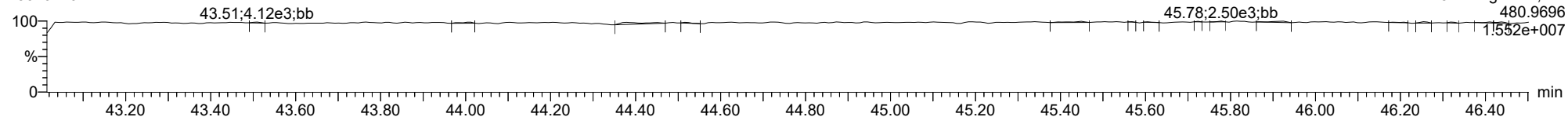
**13C-OCDD**

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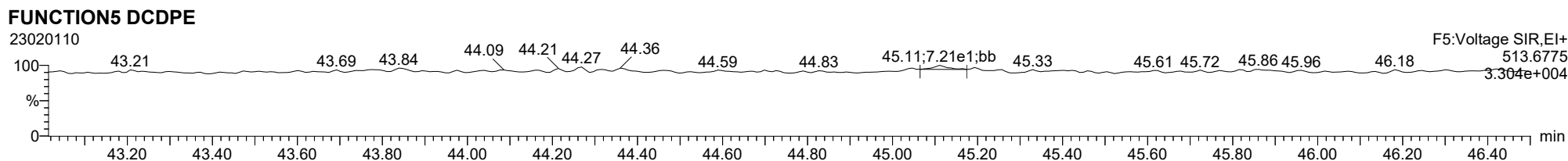
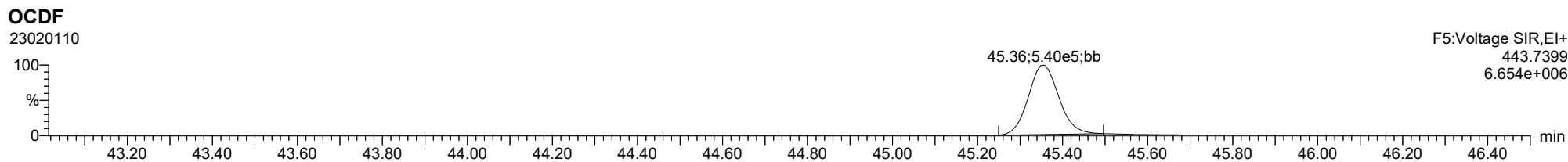
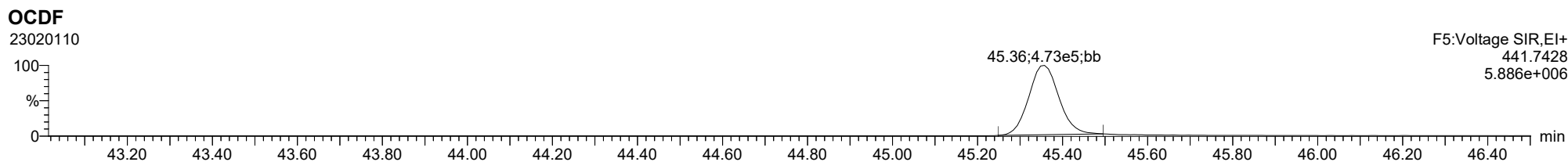


**FUNCTION5 PFK**

23020110



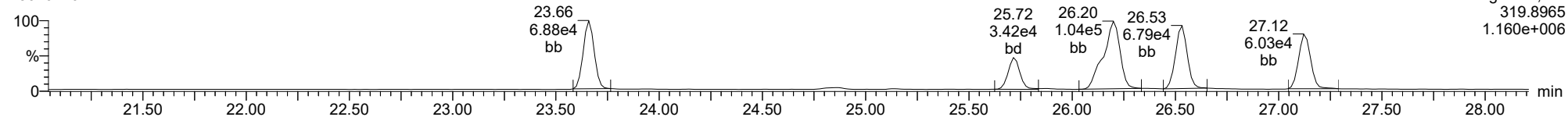
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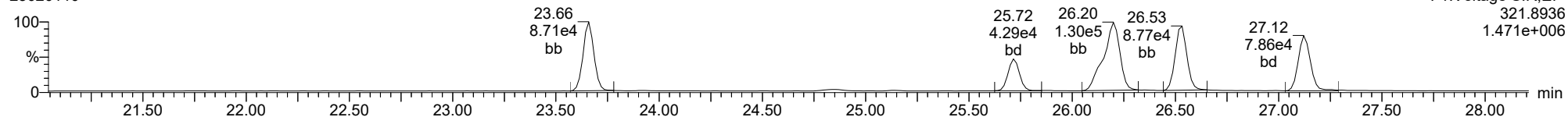
**Total-tetradoxins**

23020110



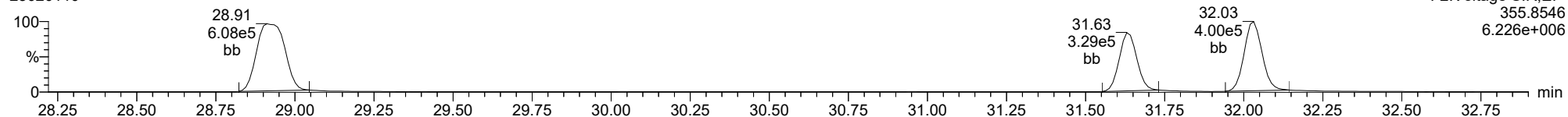
**Total-tetradoxins**

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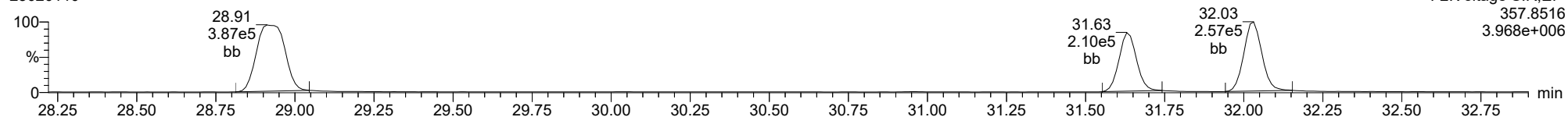
**Total-pentadoxins**

23020110



**Total-pentadoxins**

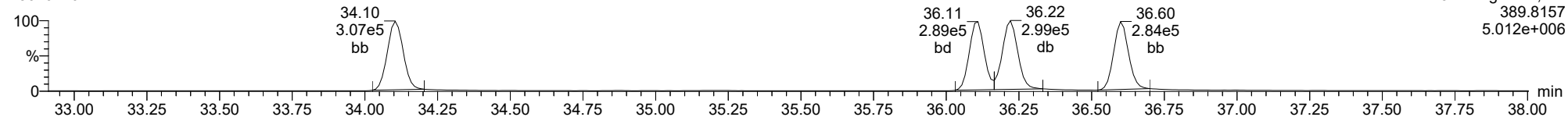
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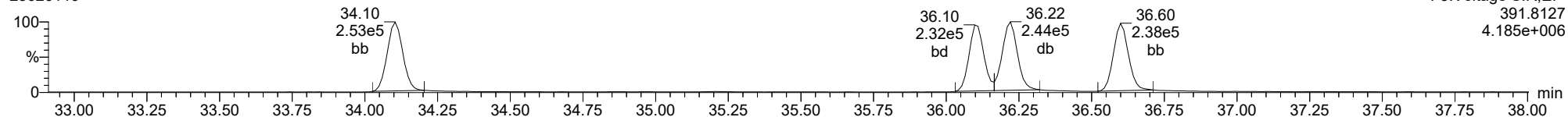
**Total-hexadioxins**

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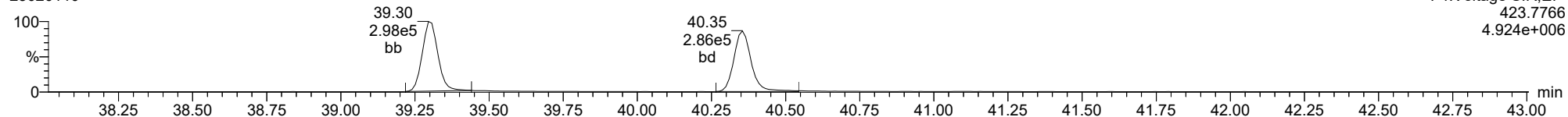
**Total-hexadioxins**

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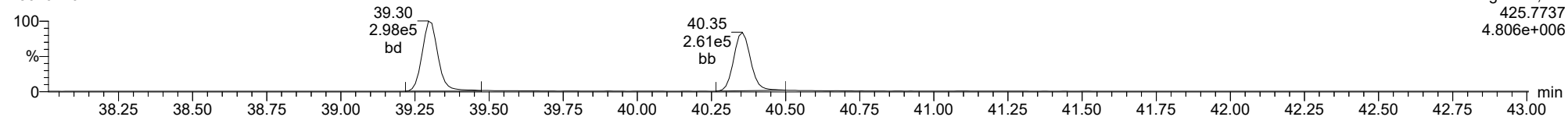
**Total-heptadioxins**

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**Total-heptadioxins**

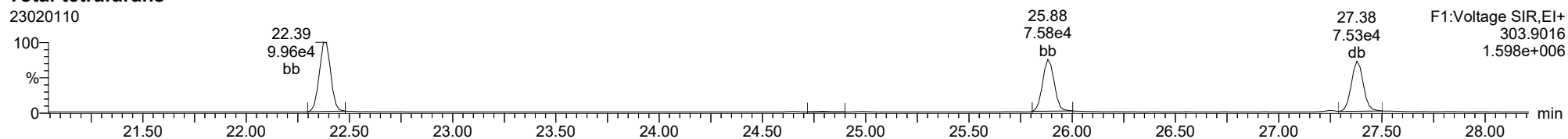
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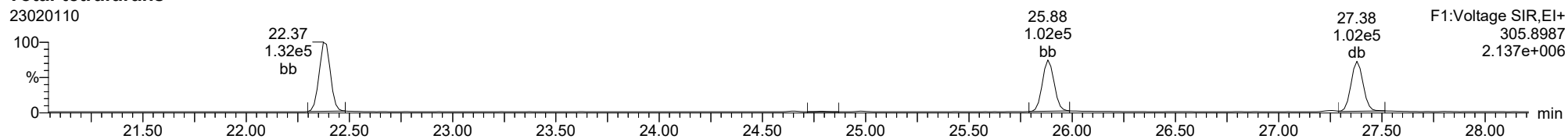
**Total-tetrafurans**

23020110



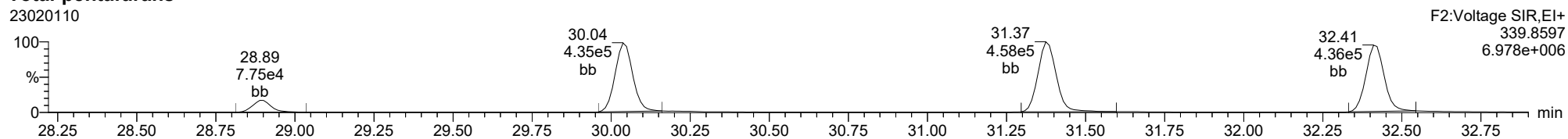
**Total-tetrafurans**

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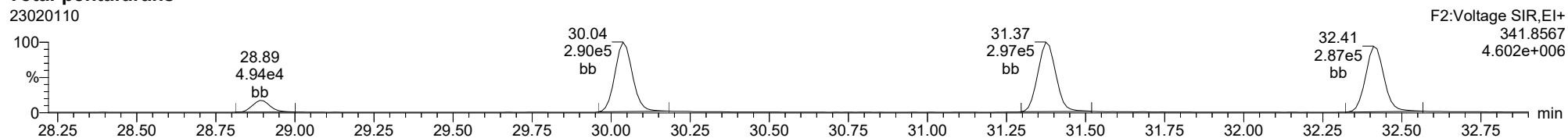
**Total-pentafurans**

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**Total-pentafurans**

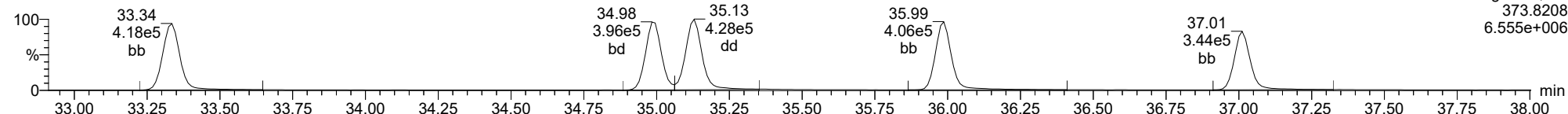
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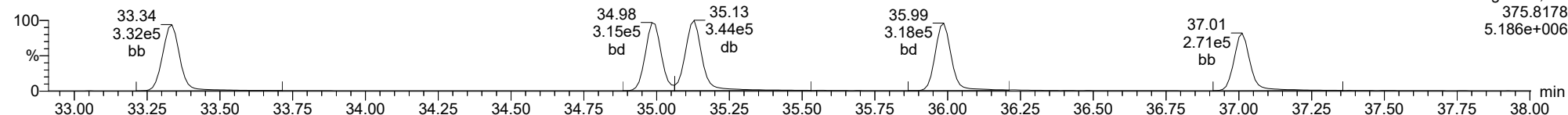
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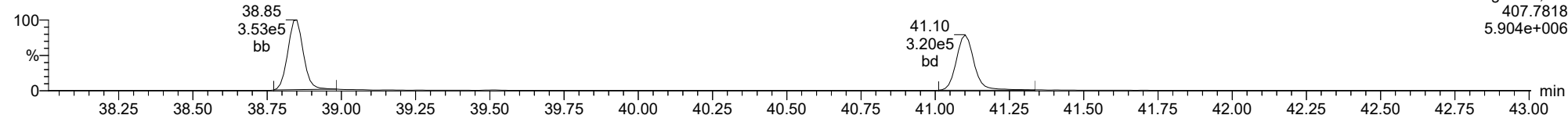
**Total-hexafurans**

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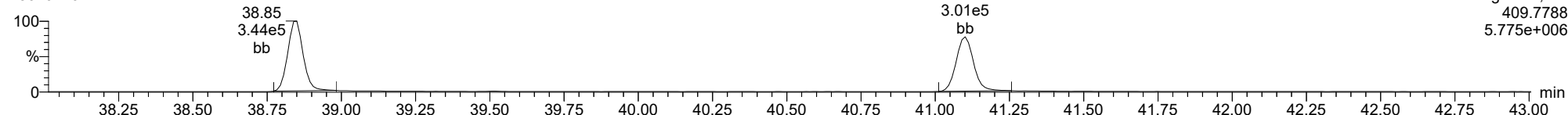
**Total-heptafurans**

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**Total-heptafurans**

23020110



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 Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time  
 Printed: Friday, February 03, 2023 11:23:25 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
 Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	6.336e4	8.393e4	0.876	0.755	0.770	1070	1746	9.70e5	1.26e6	906.6	721.7	NO	bb	bb	10.162
12378-PeCDF	30.048	1.001	3.709e5	2.488e5	0.845	1.491	1.550	3113	3215	5.69e6	3.70e6	1826.3	1149.4	NO	bb	bd	50.020
23478-PeCDF	31.385	1.001	3.851e5	2.639e5	0.911	1.459	1.550	3113	3215	5.96e6	3.97e6	1913.7	1234.6	NO	bb	bd	50.684
123478-HxCDF	34.995	1.001	3.366e5	2.649e5	1.182	1.270	1.240	2488	2037	5.32e6	4.21e6	2136.8	2067.1	NO	bd	bd	49.625
234678-HxCDF	35.986	1.000	3.507e5	2.736e5	1.229	1.282	1.240	2488	2037	5.45e6	4.23e6	2188.7	2078.3	NO	bb	bd	52.648
123678-HxCDF	35.129	1.000	3.745e5	2.918e5	1.248	1.283	1.240	2488	2037	5.41e6	4.26e6	2174.2	2090.5	NO	dd	dd	50.908
123789-HxCDF	37.012	1.000	2.970e5	2.380e5	1.187	1.248	1.240	2488	2037	4.75e6	3.76e6	1910.9	1845.7	NO	bd	bb	50.440
1234678-HpCDF	38.850	1.000	2.932e5	2.919e5	1.204	1.004	1.050	3100	2795	4.79e6	4.70e6	1544.8	1680.6	NO	bb	bd	48.294
1234789-HpCDF	41.100	1.000	2.671e5	2.524e5	1.165	1.058	1.050	3100	2795	3.96e6	3.73e6	1278.4	1333.4	NO	bb	bb	49.677
OCDF	45.358	1.006	3.958e5	4.645e5	1.186	0.852	0.890	1455	4440	4.72e6	5.37e6	3247.1	1209.2	NO	bb	bd	90.445
2378-TCDD	26.532	1.001	5.892e4	7.101e4	1.236	0.830	0.770	1225	1339	8.91e5	1.09e6	727.0	817.8	NO	dd	bb	9.397
12378-PeCDD	31.642	1.001	2.888e5	1.854e5	1.087	1.558	1.550	2693	2242	4.44e6	2.82e6	1647.5	1257.1	NO	bb	bb	51.126
123478-HxCDD	36.109	1.000	2.420e5	2.004e5	0.987	1.207	1.240	3333	2112	4.15e6	3.36e6	1245.4	1591.3	NO	bd	bd	50.303
123678-HxCDD	36.221	1.000	2.536e5	2.261e5	1.021	1.122	1.240	3333	2112	4.16e6	3.48e6	1248.0	1648.2	NO	db	db	51.010
123789-HxCDD	36.611	1.011	2.491e5	2.029e5	0.985	1.228	1.240	3333	2112	4.05e6	3.32e6	1216.5	1574.2	NO	bb	bb	50.610
1234678-HpCDD	40.354	1.000	2.244e5	2.131e5	1.253	1.053	1.050	2651	2455	3.41e6	3.28e6	1286.0	1334.6	NO	bb	bb	45.500
OCDD	45.120	1.000	3.894e5	4.309e5	1.103	0.904	0.890	2219	2267	4.59e6	5.31e6	2068.3	2340.4	NO	bd	bb	92.775
13C-2378-TCDF	25.867	1.006	7.314e5	9.230e5	1.768	0.792	0.770	2216	1949	1.12e7	1.43e7	5056.1	7338.5	NO	bb	bb	95.256
13C-12378-PeCDF	30.026	1.168	8.745e5	5.922e5	1.527	1.477	1.550	3934	3547	1.37e7	8.95e6	3469.6	2522.0	NO	bb	bd	97.769
13C-23478-PeCDF	31.363	1.220	8.488e5	5.566e5	1.466	1.525	1.550	3934	3547	1.32e7	8.62e6	3344.9	2430.1	NO	bb	bb	97.572
13C-123478-HxCDF	34.973	0.956	3.485e5	6.773e5	1.054	0.515	0.510	2953	4567	5.67e6	1.10e7	1918.4	2413.6	NO	bd	bd	101.894
13C-123678-HxCDF	35.118	0.960	3.543e5	6.945e5	1.080	0.510	0.510	2953	4567	5.60e6	1.10e7	1895.3	2409.2	NO	db	db	101.648
13C-234678-HxCDF	35.975	0.983	3.286e5	6.364e5	1.014	0.516	0.510	2953	4567	5.48e6	1.04e7	1855.6	2267.5	NO	bb	bb	99.572
13C-123789-HxCDF	37.000	1.011	3.031e5	5.907e5	0.928	0.513	0.510	2953	4567	5.28e6	1.02e7	1789.2	2235.2	NO	bb	bb	100.817
13C-1234678-HpCDF	38.839	1.062	3.130e5	6.930e5	1.036	0.452	0.440	2151	4289	5.21e6	1.16e7	2423.7	2703.6	NO	bb	bb	101.637
13C-1234789-HpCDF	41.089	1.123	2.806e5	6.168e5	0.905	0.455	0.440	2151	4289	4.21e6	9.25e6	1954.9	2156.4	NO	bb	bb	103.794
13C-1234-TCDD	25.700	0.000	4.358e5	5.465e5	1.000	0.797	0.770	2468	2151	6.80e6	8.50e6	2756.9	3953.0	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	4.953e5	6.230e5	1.103	0.795	0.770	2468	2151	7.43e6	9.28e6	3010.2	4316.3	NO	bb	bb	103.212
13C-12378-PeCDD	31.619	1.230	5.254e5	3.282e5	0.914	1.601	1.550	1809	1341	8.04e6	5.00e6	4443.5	3732.3	NO	bb	bb	95.052
13C-123478-HxCDD	36.098	0.987	5.053e5	3.859e5	0.933	1.309	1.240	2226	2294	8.20e6	6.16e6	3683.0	2686.4	NO	bd	bd	99.984
13C-123678-HxCDD	36.209	0.990	5.186e5	4.029e5	0.965	1.287	1.240	2226	2294	8.41e6	6.65e6	3779.0	2898.5	NO	db	db	99.982
13C-1234678-HpCDD	40.343	1.103	3.959e5	3.716e5	0.782	1.065	1.050	2537	2687	6.19e6	5.69e6	2441.5	2116.3	NO	bb	bb	102.734
13C-OCDD	45.101	1.233	7.625e5	8.412e5	0.788	0.906	0.890	3243	2707	9.59e6	1.05e7	2957.5	3872.2	NO	bb	bb	212.953
13C-123789-HxCDD	36.588	0.000	5.441e5	4.113e5	1.000	1.323	1.240	2226	2294	8.88e6	6.75e6	3989.4	2943.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.096e5		1.233			1635		1.65e6		1009.4			bb		9.045

Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld  
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.389	0.866	7.606e4	1.001e5	1.064	0.760	0.770	1070	1746	1.19e6	1.52e6	1110.3	869.1	NO	bb	bb	10.001
1289-TCDF	27.378	1.058	6.304e4	8.031e4	0.858	0.785	0.770	1070	1746	9.18e5	1.16e6	858.3	662.3	NO	dd	db	10.103
13468-PECDF	27.242	0.907	4.375e5	2.852e5	1.013	1.534	1.550	920	1180	6.83e6	4.45e6	7421.7	3771.3	NO	bb	bb	48.645
12389-PECDF	32.421	1.080	3.692e5	2.469e5	0.844	1.495	1.550	3113	3215	5.48e6	3.56e6	1760.8	1106.5	NO	bb	bd	49.793
123468-HXCDF	33.335	0.953	3.502e5	2.713e5	1.197	1.291	1.240	2488	2037	5.19e6	4.08e6	2086.3	2002.8	NO	bb	bd	50.610
1368-TCDD	23.659	0.892	5.296e4	6.607e4	1.084	0.802	0.770	1225	1339	8.46e5	1.08e6	690.5	804.7	NO	bb	bb	9.816
1289-TCDD	27.121	1.023	4.842e4	6.049e4	0.975	0.800	0.770	1225	1339	7.05e5	8.85e5	575.4	661.1	NO	bb	bb	9.987
12479-PECDD	28.912	0.914	4.728e5	3.089e5	1.837	1.530	1.550	2693	2242	4.61e6	3.01e6	1713.2	1342.4	NO	bb	bb	49.845
12389-PECDD	32.032	1.013	3.302e5	2.107e5	1.252	1.567	1.550	2693	2242	5.03e6	3.18e6	1869.4	1418.4	NO	bb	bb	50.596
124679-HXCDD	34.104	0.945	2.577e5	2.083e5	1.033	1.237	1.240	3333	2112	4.11e6	3.36e6	1234.1	1592.7	NO	bb	bb	50.624
1234679-HPCDD	39.307	0.974	2.468e5	2.463e5	1.286	1.002	1.050	2651	2455	3.99e6	3.89e6	1503.1	1583.0	NO	bb	bd	49.957
Total-tetrafurans			2.030e5		0.933			1070		3.09e6							30.345
Total-penta1			4.375e5					920		6.83e6							48.645
Total-pentafurans			1.184e6		0.866			3113		1.80e7							158.351
Total-hexafurans			1.709e6		1.208			2488		2.61e7							254.231
Total-heptafurans			5.602e5		1.185			3100		8.75e6							97.972
Total-Furans			4.489e6		1.067			1070		6.75e7							679.989
Total-tetradoxins			2.729e5		1.099			1225		3.70e6							49.674
Total-pentadoxins			1.093e6		1.392			2693		1.41e7							151.752
Total-hexadoxins			1.003e6		1.007			3333		1.65e7							202.708
Total-heptadoxins			4.712e5		1.269			2651		7.39e6							95.457
Total-Dioxins			3.230e6		1.165			1225		4.63e7							592.366
Total-TEQ			7.719e6					1225		1.14e8							1272.355
FUNCTION1 PFK			5.445e5					518107		1.64e7							
FUNCTION2 PFK			0.000e0					179627		0.00e0							
FUNCTION3 PFK			0.000e0					451502		0.00e0							
FUNCTION4 PFK			1.511e5					331096		1.60e6							
FUNCTION5 PFK			9.048e3					184760		4.73e5							
FUNCTION1 HXCD...			1.131e3					606		1.62e4							0.000
FUNCTION1 HPCD...			5.247e2					900		8.84e3							0.000
FUNCTION2 HPCD...			8.476e2					1136		1.98e4							0.000
FUNCTION3 OCDPE			4.428e2					714		7.64e3							0.000
FUNCTION4 NCDPE			0.000e0					982		0.00e0							
FUNCTION5 DCDPE			0.000e0					815		0.00e0							



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld

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**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.304e4	8.031e4	0.858	0.79	0.77	858.3	YES	NO	dd	db	10.103
2	2378-TCDF	25.88	6.336e4	8.393e4	0.876	0.75	0.77	906.6	YES	NO	bb	bb	10.162
3	Total-tetrafurans	24.97	5.535e2	6.624e2	0.933	0.84	0.77	8.4	YES	NO	bb	bb	0.079
4	1368-TCDF	22.39	7.606e4	1.001e5	1.064	0.76	0.77	1110.3	YES	NO	bb	bb	10.001

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	4.375e5	2.852e5	1.013	1.53	1.55	7421.7	YES	NO	bb	bb	48.645

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.90	5.868e4	3.904e4	0.866	1.50	1.55	293.6	YES	NO	bb	bb	7.853
2	12389-PECDF	32.42	3.692e5	2.469e5	0.844	1.50	1.55	1760.8	YES	NO	bb	bd	49.793
3	23478-PeCDF	31.39	3.851e5	2.639e5	0.911	1.46	1.55	1913.7	YES	NO	bb	bd	50.684
4	12378-PeCDF	30.05	3.709e5	2.488e5	0.845	1.49	1.55	1826.3	YES	NO	bb	bd	50.020

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.01	2.970e5	2.380e5	1.187	1.25	1.24	1910.9	YES	NO	bd	bb	50.440
2	234678-HxCDF	35.99	3.507e5	2.736e5	1.229	1.28	1.24	2188.7	YES	NO	bb	bd	52.648
3	123678-HxCDF	35.13	3.745e5	2.918e5	1.248	1.28	1.24	2174.2	YES	NO	dd	dd	50.908
4	123478-HxCDF	34.99	3.366e5	2.649e5	1.182	1.27	1.24	2136.8	YES	NO	bd	bd	49.625
5	123468-HXCDF	33.33	3.502e5	2.713e5	1.197	1.29	1.24	2086.3	YES	NO	bb	bd	50.610

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.85	2.932e5	2.919e5	1.204	1.00	1.05	1544.8	YES	NO	bb	bd	48.294
2	1234789-HpCDF	41.10	2.671e5	2.524e5	1.165	1.06	1.05	1278.4	YES	NO	bb	bb	49.677

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.304e4	8.031e4	0.858	0.79	0.77	858.3	YES	NO	dd	db	10.103
2	2378-TCDF	25.88	6.336e4	8.393e4	0.876	0.75	0.77	906.6	YES	NO	bb	bb	10.162
3	Total-tetrafurans	24.97	5.535e2	6.624e2	0.933	0.84	0.77	8.4	YES	NO	bb	bb	0.079
4	1368-TCDF	22.39	7.606e4	1.001e5	1.064	0.76	0.77	1110.3	YES	NO	bb	bb	10.001
5	Total-pentafurans	28.90	5.868e4	3.904e4	0.866	1.50	1.55	293.6	YES	NO	bb	bb	7.853
6	12389-PECDF	32.42	3.692e5	2.469e5	0.844	1.50	1.55	1760.8	YES	NO	bb	bd	49.793
7	23478-PeCDF	31.39	3.851e5	2.639e5	0.911	1.46	1.55	1913.7	YES	NO	bb	bd	50.684
8	12378-PeCDF	30.05	3.709e5	2.488e5	0.845	1.49	1.55	1826.3	YES	NO	bb	bd	50.020
9	123789-HxCDF	37.01	2.970e5	2.380e5	1.187	1.25	1.24	1910.9	YES	NO	bd	bb	50.440
10	234678-HxCDF	35.99	3.507e5	2.736e5	1.229	1.28	1.24	2188.7	YES	NO	bb	bd	52.648
11	123678-HxCDF	35.13	3.745e5	2.918e5	1.248	1.28	1.24	2174.2	YES	NO	dd	dd	50.908
12	123478-HxCDF	34.99	3.366e5	2.649e5	1.182	1.27	1.24	2136.8	YES	NO	bd	bd	49.625
13	123468-HxCDF	33.33	3.502e5	2.713e5	1.197	1.29	1.24	2086.3	YES	NO	bb	bd	50.610
14	1234678-HpCDF	38.85	2.932e5	2.919e5	1.204	1.00	1.05	1544.8	YES	NO	bb	bd	48.294
15	1234789-HpCDF	41.10	2.671e5	2.524e5	1.165	1.06	1.05	1278.4	YES	NO	bb	bb	49.677
16	OCDF	45.36	3.958e5	4.645e5	1.186	0.85	0.89	3247.1	YES	NO	bb	bd	90.445
17	13468-PECDF	27.24	4.375e5	2.852e5	1.013	1.53	1.55	7421.7	YES	NO	bb	bb	48.645

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	5.892e4	7.101e4	1.236	0.83	0.77	727.0	YES	NO	dd	bb	9.397
2	Total-tetradoxins	26.21	8.373e4	1.038e5	1.099	0.81	0.77	673.5	YES	NO	bd	bb	15.262
3	Total-tetradoxins	25.72	2.649e4	3.214e4	1.099	0.82	0.77	333.6	YES	NO	bb	bb	4.772
4	Total-tetradoxins	24.85	2.420e3	2.985e3	1.099	0.81	0.77	19.9	YES	NO	bb	bb	0.440
5	1368-TCDD	23.66	5.296e4	6.607e4	1.084	0.80	0.77	690.5	YES	NO	bb	bb	9.816
6	1289-TCDD	27.12	4.842e4	6.049e4	0.975	0.80	0.77	575.4	YES	NO	bb	bb	9.987

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.91	4.728e5	3.089e5	1.837	1.53	1.55	1713.2	YES	NO	bb	bb	49.845
2	12389-PECDD	32.03	3.302e5	2.107e5	1.252	1.57	1.55	1869.4	YES	NO	bb	bb	50.596
3	12378-PeCDD	31.64	2.888e5	1.854e5	1.087	1.56	1.55	1647.5	YES	NO	bb	bb	51.126
4	Total-pentadoxins	30.97	1.315e3	8.851e2	1.392	1.49	1.55	7.1	YES	NO	bb	bb	0.185

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.61	2.491e5	2.029e5	0.985	1.23	1.24	1216.5	YES	NO	bb	bb	50.610
2	123678-HxCDD	36.22	2.536e5	2.261e5	1.021	1.12	1.24	1248.0	YES	NO	db	db	51.010
3	123478-HxCDD	36.11	2.420e5	2.004e5	0.987	1.21	1.24	1245.4	YES	NO	bd	bd	50.303
4	Total-hexadioxins	34.86	7.769e2	6.946e2	1.007	1.12	1.24	3.9	YES	NO	bd	bb	0.161
5	124679-HxCDD	34.10	2.577e5	2.083e5	1.033	1.24	1.24	1234.1	YES	NO	bb	bb	50.624

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.31	2.468e5	2.463e5	1.286	1.00	1.05	1503.1	YES	NO	bb	bd	49.957
2	1234678-HpCDD	40.35	2.244e5	2.131e5	1.253	1.05	1.05	1286.0	YES	NO	bb	bb	45.500

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	5.892e4	7.101e4	1.236	0.83	0.77	727.0	YES	NO	dd	bb	9.397
2	Total-tetradioxins	26.21	8.373e4	1.038e5	1.099	0.81	0.77	673.5	YES	NO	bd	bb	15.262
3	Total-tetradioxins	25.72	2.649e4	3.214e4	1.099	0.82	0.77	333.6	YES	NO	bb	bb	4.772
4	Total-tetradioxins	24.85	2.420e3	2.985e3	1.099	0.81	0.77	19.9	YES	NO	bb	bb	0.440
5	1368-TCDD	23.66	5.296e4	6.607e4	1.084	0.80	0.77	690.5	YES	NO	bb	bb	9.816
6	12479-PECDD	28.91	4.728e5	3.089e5	1.837	1.53	1.55	1713.2	YES	NO	bb	bb	49.845
7	1289-TCDD	27.12	4.842e4	6.049e4	0.975	0.80	0.77	575.4	YES	NO	bb	bb	9.987
8	12389-PECDD	32.03	3.302e5	2.107e5	1.252	1.57	1.55	1869.4	YES	NO	bb	bb	50.596
9	12378-PeCDD	31.64	2.888e5	1.854e5	1.087	1.56	1.55	1647.5	YES	NO	bb	bb	51.126
10	Total-pentadioxins	30.97	1.315e3	8.851e2	1.392	1.49	1.55	7.1	YES	NO	bb	bb	0.185
11	123789-HxCDD	36.61	2.491e5	2.029e5	0.985	1.23	1.24	1216.5	YES	NO	bb	bb	50.610
12	123678-HxCDD	36.22	2.536e5	2.261e5	1.021	1.12	1.24	1248.0	YES	NO	db	db	51.010
13	123478-HxCDD	36.11	2.420e5	2.004e5	0.987	1.21	1.24	1245.4	YES	NO	bd	bd	50.303
14	Total-hexadioxins	34.86	7.769e2	6.946e2	1.007	1.12	1.24	3.9	YES	NO	bd	bb	0.161
15	124679-HxCDD	34.10	2.577e5	2.083e5	1.033	1.24	1.24	1234.1	YES	NO	bb	bb	50.624
16	1234679-HPCDD	39.31	2.468e5	2.463e5	1.286	1.00	1.05	1503.1	YES	NO	bb	bd	49.957
17	1234678-HpCDD	40.35	2.244e5	2.131e5	1.253	1.05	1.05	1286.0	YES	NO	bb	bb	45.500
18	OCDD	45.12	3.894e5	4.309e5	1.103	0.90	0.89	2068.3	YES	NO	bd	bb	92.775

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld

Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time

Printed: Friday, February 03, 2023 11:23:25 Pacific Standard Time

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.304e4	8.031e4	0.858	0.79	0.77	858.3	YES	NO	dd	db	10.103
2	2378-TCDF	25.88	6.336e4	8.393e4	0.876	0.75	0.77	906.6	YES	NO	bb	bb	10.162
3	Total-tetrafurans	24.97	5.535e2	6.624e2	0.933	0.84	0.77	8.4	YES	NO	bb	bb	0.079
4	1368-TCDF	22.39	7.606e4	1.001e5	1.064	0.76	0.77	1110.3	YES	NO	bb	bb	10.001
5	Total-pentafurans	28.90	5.868e4	3.904e4	0.866	1.50	1.55	293.6	YES	NO	bb	bb	7.853
6	12389-PECDF	32.42	3.692e5	2.469e5	0.844	1.50	1.55	1760.8	YES	NO	bb	bd	49.793
7	23478-PeCDF	31.39	3.851e5	2.639e5	0.911	1.46	1.55	1913.7	YES	NO	bb	bd	50.684
8	12378-PeCDF	30.05	3.709e5	2.488e5	0.845	1.49	1.55	1826.3	YES	NO	bb	bd	50.020
9	123789-HxCDF	37.01	2.970e5	2.380e5	1.187	1.25	1.24	1910.9	YES	NO	bd	bb	50.440
10	234678-HxCDF	35.99	3.507e5	2.736e5	1.229	1.28	1.24	2188.7	YES	NO	bb	bd	52.648
11	123678-HxCDF	35.13	3.745e5	2.918e5	1.248	1.28	1.24	2174.2	YES	NO	dd	dd	50.908
12	123478-HxCDF	34.99	3.366e5	2.649e5	1.182	1.27	1.24	2136.8	YES	NO	bd	bd	49.625
13	123468-HXCDF	33.33	3.502e5	2.713e5	1.197	1.29	1.24	2086.3	YES	NO	bb	bd	50.610
14	1234678-HpCDF	38.85	2.932e5	2.919e5	1.204	1.00	1.05	1544.8	YES	NO	bb	bd	48.294
15	1234789-HpCDF	41.10	2.671e5	2.524e5	1.165	1.06	1.05	1278.4	YES	NO	bb	bb	49.677
16	OCDF	45.36	3.958e5	4.645e5	1.186	0.85	0.89	3247.1	YES	NO	bb	bd	90.445
17	13468-PECDF	27.24	4.375e5	2.852e5	1.013	1.53	1.55	7421.7	YES	NO	bb	bb	48.645
18	2378-TCDD	26.53	5.892e4	7.101e4	1.236	0.83	0.77	727.0	YES	NO	dd	bb	9.397
19	Total-tetradiioxins	26.21	8.373e4	1.038e5	1.099	0.81	0.77	673.5	YES	NO	bd	bb	15.262
20	Total-tetradiioxins	25.72	2.649e4	3.214e4	1.099	0.82	0.77	333.6	YES	NO	bb	bb	4.772
21	Total-tetradiioxins	24.85	2.420e3	2.985e3	1.099	0.81	0.77	19.9	YES	NO	bb	bb	0.440
22	1368-TCDD	23.66	5.296e4	6.607e4	1.084	0.80	0.77	690.5	YES	NO	bb	bb	9.816
23	12479-PECDD	28.91	4.728e5	3.089e5	1.837	1.53	1.55	1713.2	YES	NO	bb	bb	49.845
24	1289-TCDD	27.12	4.842e4	6.049e4	0.975	0.80	0.77	575.4	YES	NO	bb	bb	9.987
25	12389-PECDD	32.03	3.302e5	2.107e5	1.252	1.57	1.55	1869.4	YES	NO	bb	bb	50.596
26	12378-PeCDD	31.64	2.888e5	1.854e5	1.087	1.56	1.55	1647.5	YES	NO	bb	bb	51.126
27	Total-pentadiioxins	30.97	1.315e3	8.851e2	1.392	1.49	1.55	7.1	YES	NO	bb	bb	0.185
28	123789-HxCDD	36.61	2.491e5	2.029e5	0.985	1.23	1.24	1216.5	YES	NO	bb	bb	50.610
29	123678-HxCDD	36.22	2.536e5	2.261e5	1.021	1.12	1.24	1248.0	YES	NO	db	db	51.010
30	123478-HxCDD	36.11	2.420e5	2.004e5	0.987	1.21	1.24	1245.4	YES	NO	bd	bd	50.303
31	Total-hexadiioxins	34.86	7.769e2	6.946e2	1.007	1.12	1.24	3.9	YES	NO	bd	bb	0.161
32	124679-HXCDD	34.10	2.577e5	2.083e5	1.033	1.24	1.24	1234.1	YES	NO	bb	bb	50.624
33	1234679-HPCDD	39.31	2.468e5	2.463e5	1.286	1.00	1.05	1503.1	YES	NO	bb	bd	49.957
34	1234678-HpCDD	40.35	2.244e5	2.131e5	1.253	1.05	1.05	1286.0	YES	NO	bb	bb	45.500
35	OCDD	45.12	3.894e5	4.309e5	1.103	0.90	0.89	2068.3	YES	NO	bd	bb	92.775

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld

Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time

Printed: Friday, February 03, 2023 11:23:25 Pacific Standard Time

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.43	3.727e4					1.3	NO		bb		
2	FUNCTION1 PFK	23.18	1.916e4					1.1	NO		bb		
3	FUNCTION1 PFK	22.75	3.142e3					0.4	NO		bb		
4	FUNCTION1 PFK	22.69	1.169e4					0.7	NO		bb		
5	FUNCTION1 PFK	22.63	7.039e3					0.6	NO		bb		
6	FUNCTION1 PFK	22.57	1.283e4					0.8	NO		db		
7	FUNCTION1 PFK	22.51	2.158e4					1.2	NO		bd		
8	FUNCTION1 PFK	22.36	1.134e4					0.8	NO		bb		
9	FUNCTION1 PFK	22.22	4.269e4					1.3	NO		bb		
10	FUNCTION1 PFK	22.10	3.052e4					1.6	NO		bb		
11	FUNCTION1 PFK	21.62	2.765e4					1.4	NO		bb		
12	FUNCTION1 PFK	21.54	1.965e4					1.2	NO		bb		
13	FUNCTION1 PFK	21.48	1.090e4					0.8	NO		bb		
14	FUNCTION1 PFK	21.29	3.708e4					1.3	NO		bb		
15	FUNCTION1 PFK	26.79	7.221e3					0.6	NO		bb		
16	FUNCTION1 PFK	26.49	8.249e3					0.4	NO		bb		
17	FUNCTION1 PFK	26.41	9.337e3					0.7	NO		db		
18	FUNCTION1 PFK	26.35	9.113e3					0.6	NO		bd		
19	FUNCTION1 PFK	26.15	5.974e3					0.5	NO		bb		
20	FUNCTION1 PFK	26.09	1.716e4					0.9	NO		bb		
21	FUNCTION1 PFK	25.96	1.452e4					1.0	NO		bb		
22	FUNCTION1 PFK	25.59	3.325e3					0.4	NO		bb		
23	FUNCTION1 PFK	25.34	4.402e3					0.6	NO		bb		
24	FUNCTION1 PFK	24.87	9.404e3					0.7	NO		bb		
25	FUNCTION1 PFK	24.75	2.747e4					1.4	NO		bb		
26	FUNCTION1 PFK	24.35	3.959e3					0.5	NO		bb		
27	FUNCTION1 PFK	24.04	7.708e3					0.6	NO		bb		
28	FUNCTION1 PFK	23.69	6.646e3					0.9	NO		bb		
29	FUNCTION1 PFK	23.63	5.706e3					0.6	NO		db		
30	FUNCTION1 PFK	23.57	2.430e4					1.1	NO		bd		
31	FUNCTION1 PFK	28.10	1.253e4					0.8	NO		bb		
32	FUNCTION1 PFK	28.03	8.849e3					0.7	NO		bb		
33	FUNCTION1 PFK	27.95	1.020e4					0.7	NO		bb		
34	FUNCTION1 PFK	27.88	1.726e4					1.1	NO		bb		
35	FUNCTION1 PFK	27.76	3.581e3					0.5	NO		bb		
36	FUNCTION1 PFK	27.41	1.709e4					1.1	NO		bb		
37	FUNCTION1 PFK	27.26	1.794e4					1.0	NO		bb		

Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld  
 Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time  
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.07	1.511e5					4.8	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.55	2.727e3					1.0	NO		bb		
2	FUNCTION5 PFK	43.63	6.321e3					1.6	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.22	7.029e1					2.0	NO		bb		0.000
2	FUNCTION1 HXCD...	27.79	7.872e1					1.6	NO		bb		0.000
3	FUNCTION1 HXCD...	27.44	8.510e1					1.7	NO		bb		0.000
4	FUNCTION1 HXCD...	27.24	1.425e2					4.1	YES		bb		0.000
5	FUNCTION1 HXCD...	26.86	9.476e1					2.1	NO		bb		0.000
6	FUNCTION1 HXCD...	26.52	1.068e2					2.9	NO		bb		0.000
7	FUNCTION1 HXCD...	24.76	1.755e2					3.8	YES		db		0.000
8	FUNCTION1 HXCD...	24.66	1.713e2					3.1	YES		bd		0.000
9	FUNCTION1 HXCD...	22.65	7.687e1					2.7	NO		bb		0.000
10	FUNCTION1 HXCD...	21.59	1.290e2					2.9	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201ICVIH.qld

Last Altered: Friday, February 03, 2023 11:22:32 Pacific Standard Time

Printed: Friday, February 03, 2023 11:23:25 Pacific Standard Time

**ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk****ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	28.01	1.182e2					1.3	NO		bb		0.000
2	FUNCTION1 HPCD...	26.91	1.043e2					2.5	NO		bb		0.000
3	FUNCTION1 HPCD...	26.31	8.865e1					2.0	NO		bb		0.000
4	FUNCTION1 HPCD...	24.76	1.293e2					2.4	NO		bb		0.000
5	FUNCTION1 HPCD...	22.60	8.433e1					1.6	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.44	1.012e2					2.5	NO		bb		0.000
2	FUNCTION2 HPCD...	31.41	1.119e2					1.8	NO		db		0.000
3	FUNCTION2 HPCD...	31.27	2.407e2					5.1	YES		bd		0.000
4	FUNCTION2 HPCD...	30.62	8.382e1					2.0	NO		db		0.000
5	FUNCTION2 HPCD...	30.52	8.939e1					1.4	NO		bd		0.000
6	FUNCTION2 HPCD...	28.80	1.157e2					1.7	NO		bb		0.000
7	FUNCTION2 HPCD...	28.49	1.048e2					3.0	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.99	8.499e1					2.5	NO		bb		0.000
2	FUNCTION3 OCDPE	34.37	1.004e2					2.7	NO		bb		0.000
3	FUNCTION3 OCDPE	33.49	7.795e1					2.6	NO		bb		0.000
4	FUNCTION3 OCDPE	33.13	1.794e2					2.9	NO		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS6**

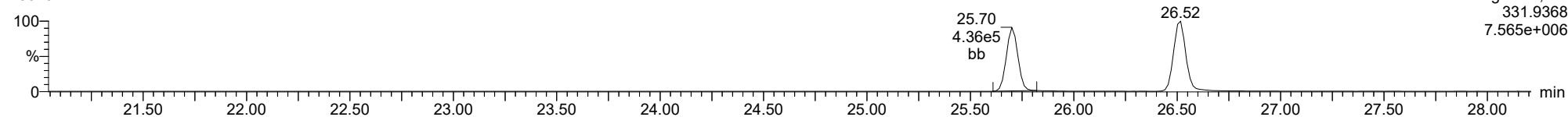
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1													

Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

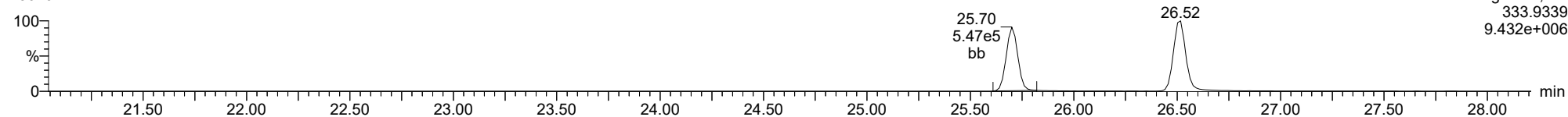
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23020111



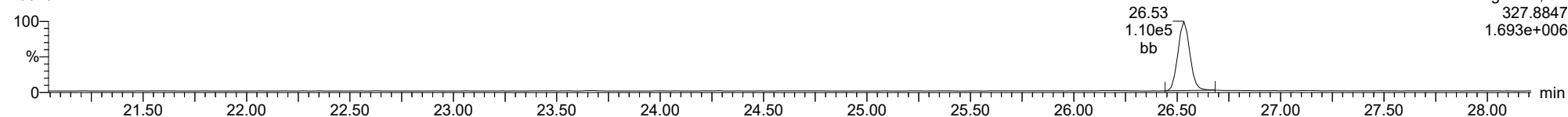
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23020111



**37CL-2378-TCDD**

23020111

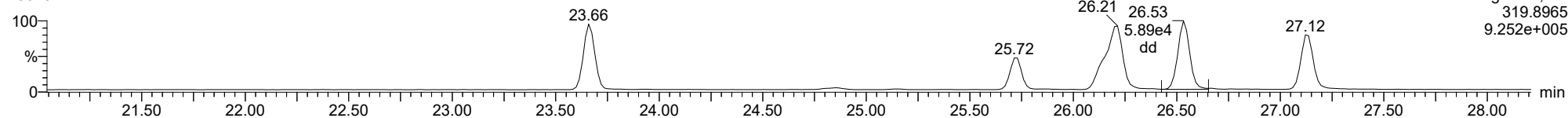




ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

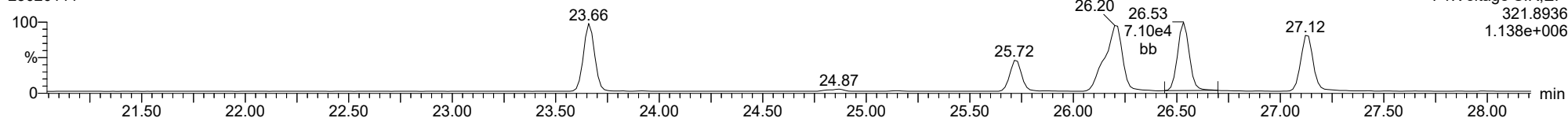
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23020111



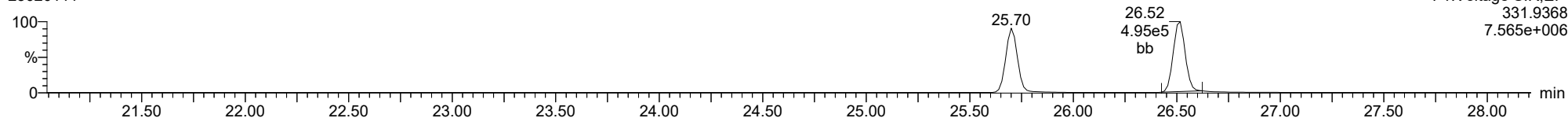
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23020111



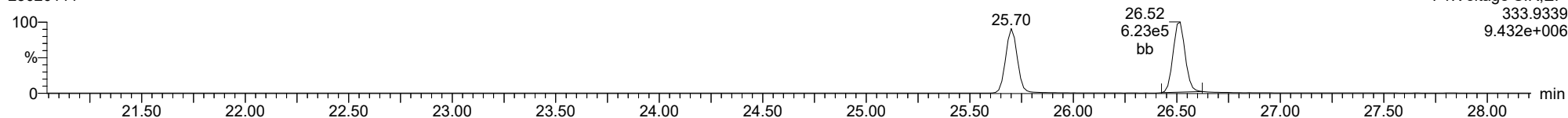
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23020111



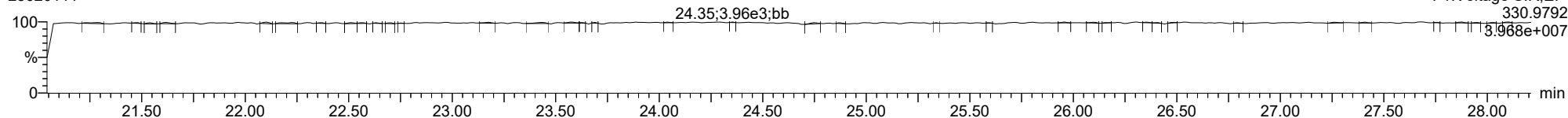
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23020111



**FUNCTION1 PFK**

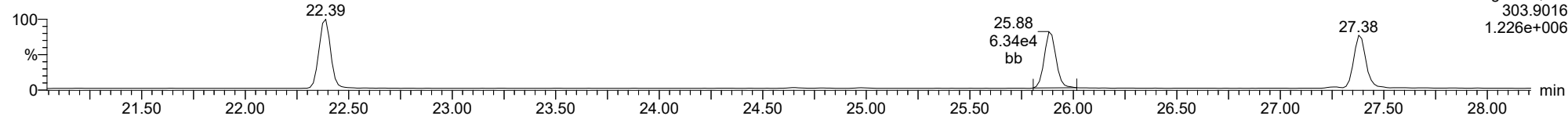
23020111



ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

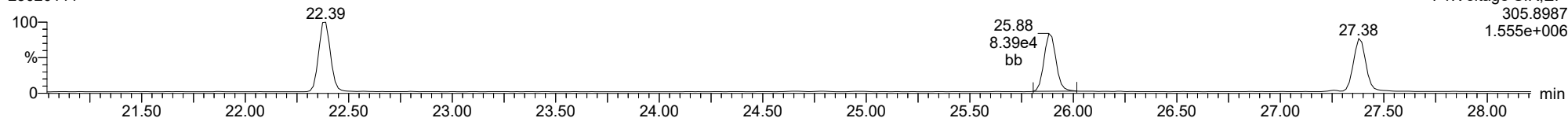
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23020111



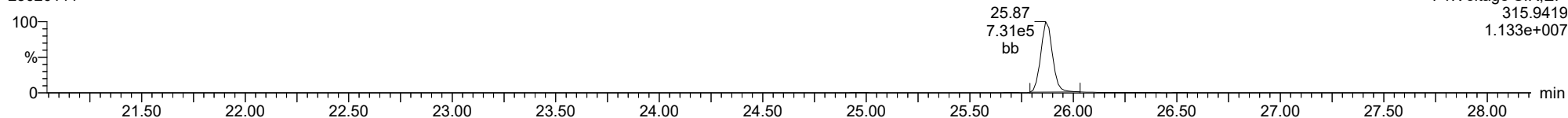
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23020111



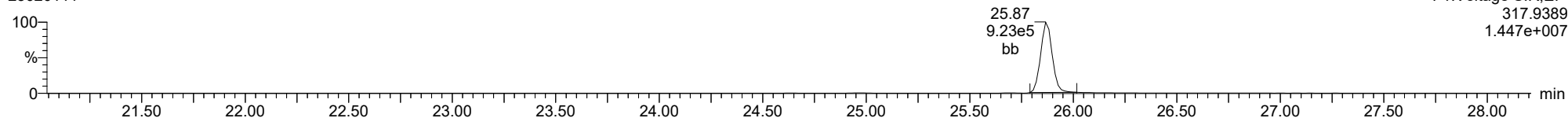
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23020111



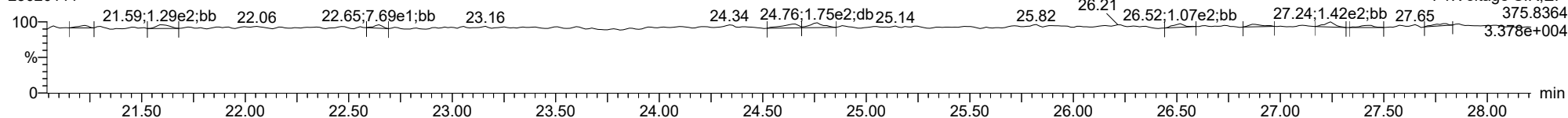
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23020111



**FUNCTION1 HXCDPE**

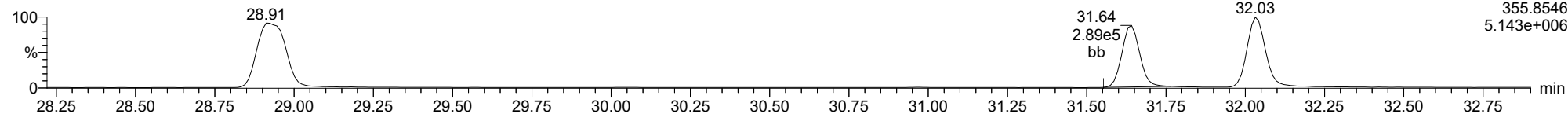
23020111



ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

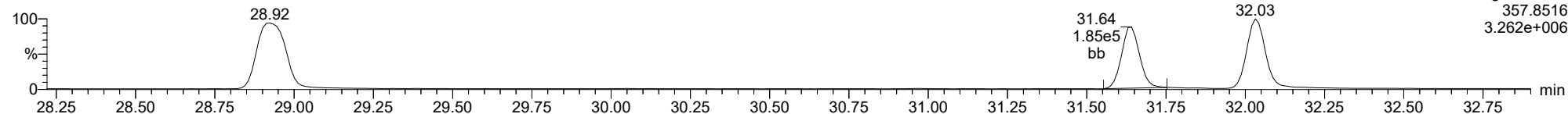
23020111



F2:Voltage SIR,EI+  
355.8546  
5.143e+006

**12378-PeCDD**

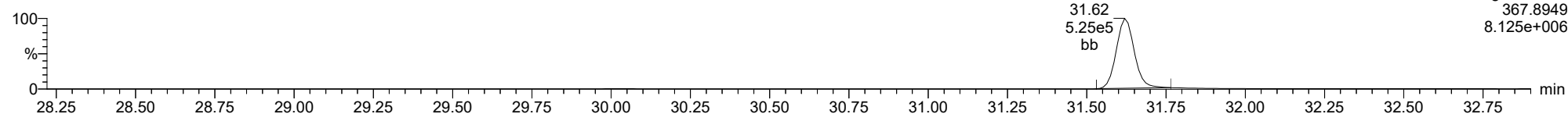
23020111



F2:Voltage SIR,EI+  
357.8516  
3.262e+006

**13C-12378-PeCDD**

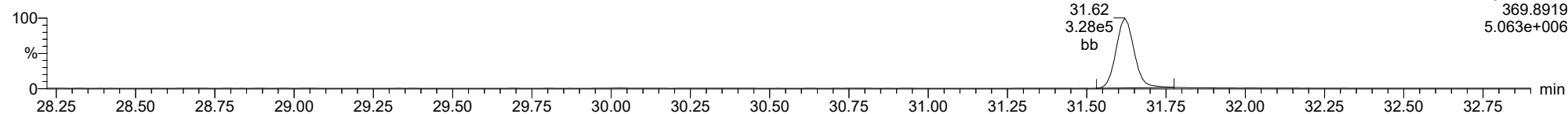
23020111



F2:Voltage SIR,EI+  
367.8949  
8.125e+006

**13C-12378-PeCDD**

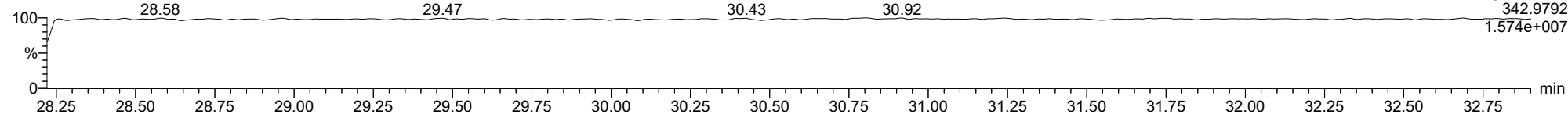
23020111



F2:Voltage SIR,EI+  
369.8919  
5.063e+006

**FUNCTION2 PFK**

23020111

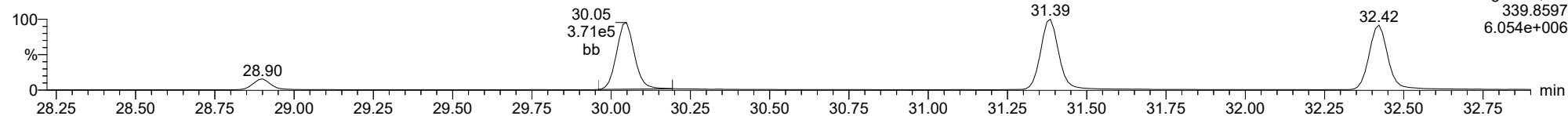


F2:Voltage SIR,EI+  
342.9792  
1.574e+007

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

**12378-PeCDF**

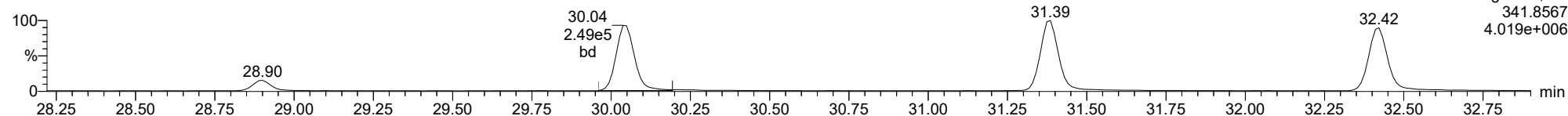
23020111



F2:Voltage SIR,El+  
339.8597  
6.054e+006

**12378-PeCDF**

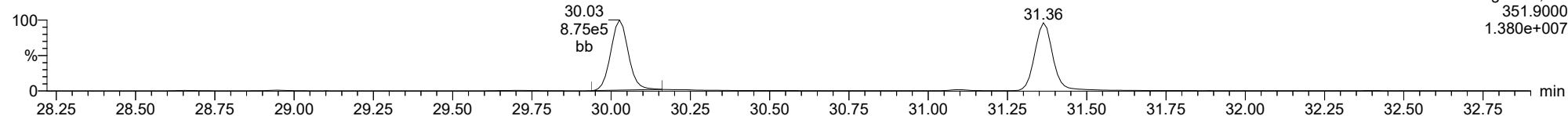
23020111



F2:Voltage SIR,El+  
341.8567  
4.019e+006

**13C-12378-PeCDF**

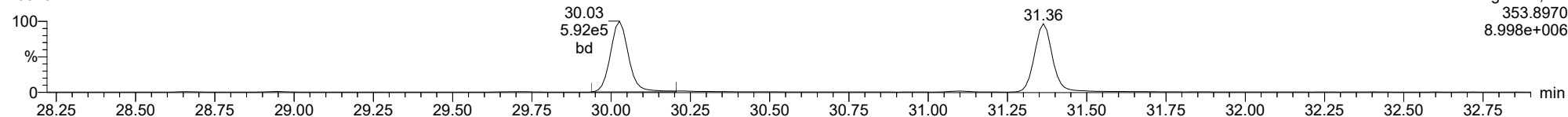
23020111



F2:Voltage SIR,El+  
351.9000  
1.380e+007

**13C-12378-PeCDF**

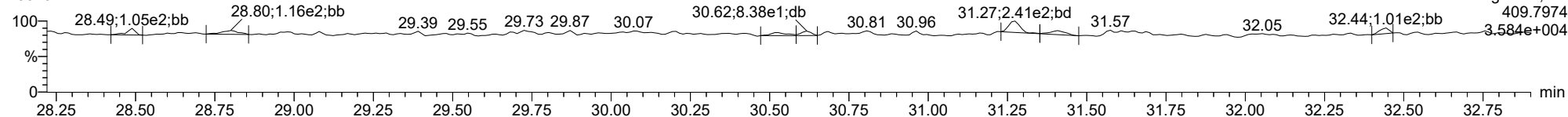
23020111



F2:Voltage SIR,El+  
353.8970  
8.998e+006

**FUNCTION2 HPCDPE**

23020111

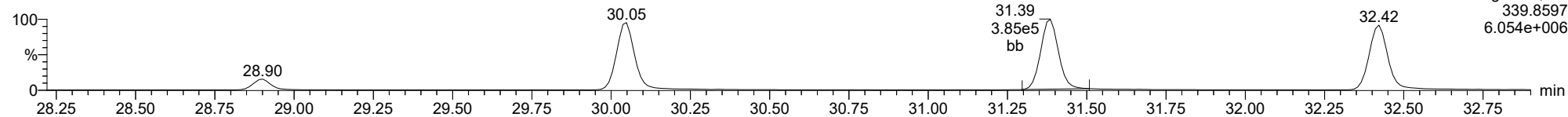


F2:Voltage SIR,El+  
409.7974  
3.584e+004

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

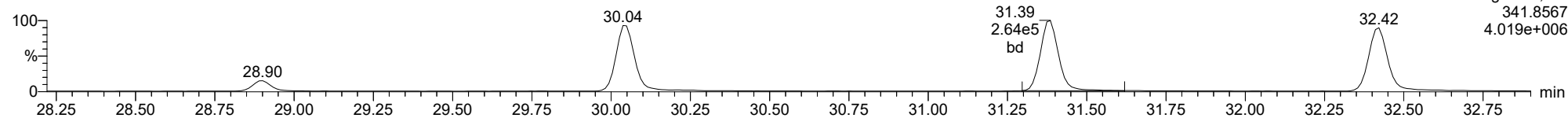
23020111



F2:Voltage SIR,EI+  
339.8597  
6.054e+006

**23478-PeCDF**

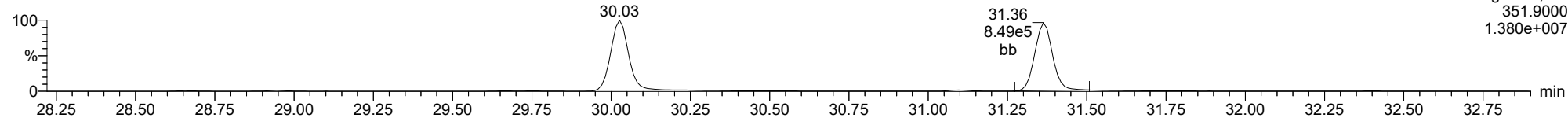
23020111



F2:Voltage SIR,EI+  
341.8567  
4.019e+006

**13C-23478-PeCDF**

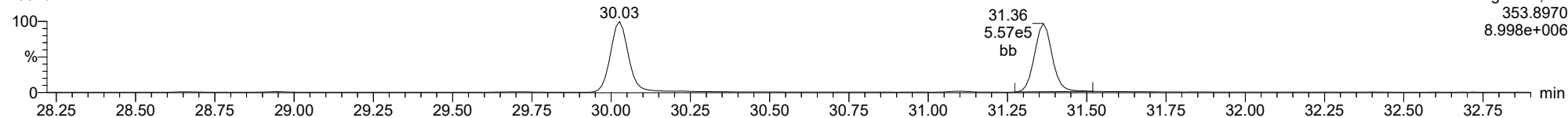
23020111



F2:Voltage SIR,EI+  
351.9000  
1.380e+007

**13C-23478-PeCDF**

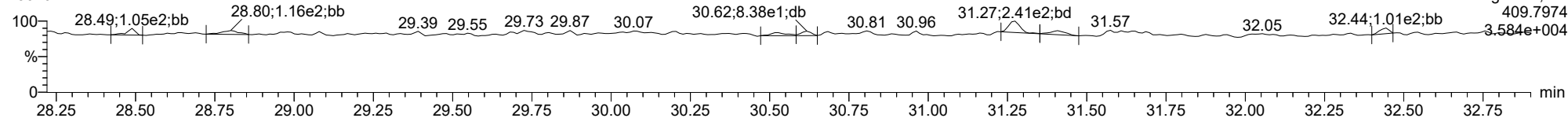
23020111



F2:Voltage SIR,EI+  
353.8970  
8.998e+006

**FUNCTION2 HPCDPE**

23020111

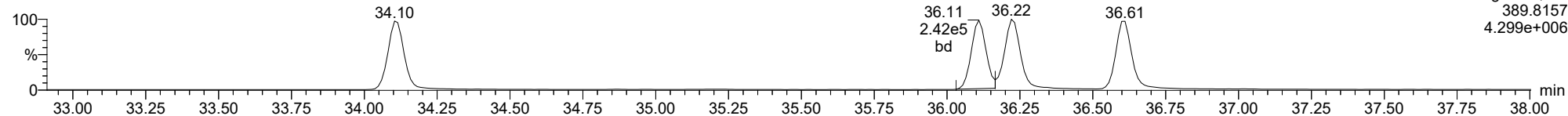


F2:Voltage SIR,EI+  
409.7974  
3.584e+004

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

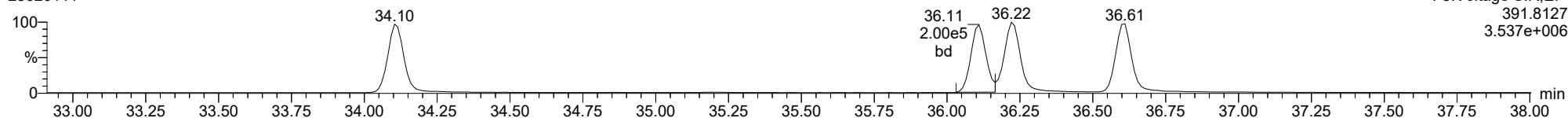
**123478-HxCDD**

23020111



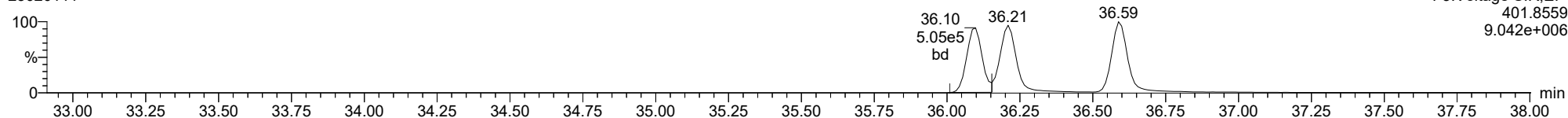
**123478-HxCDD**

23020111



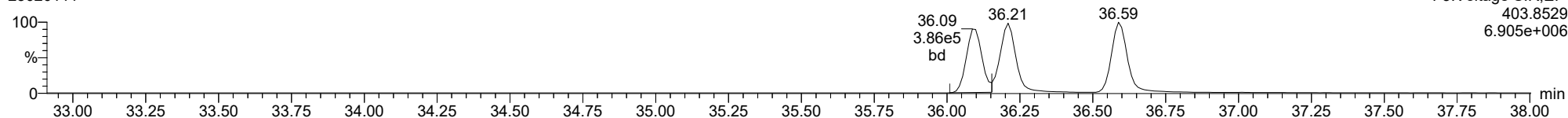
**13C-123478-HxCDD**

23020111



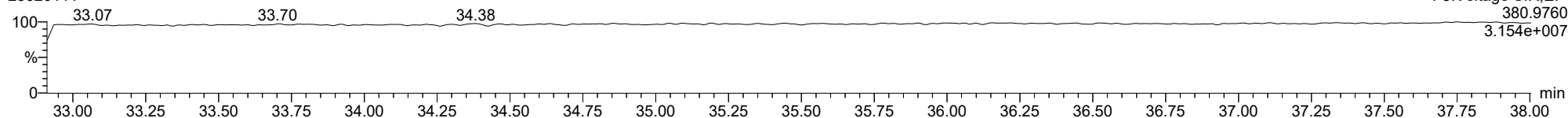
**13C-123478-HxCDD**

23020111



**FUNCTION3 PFK**

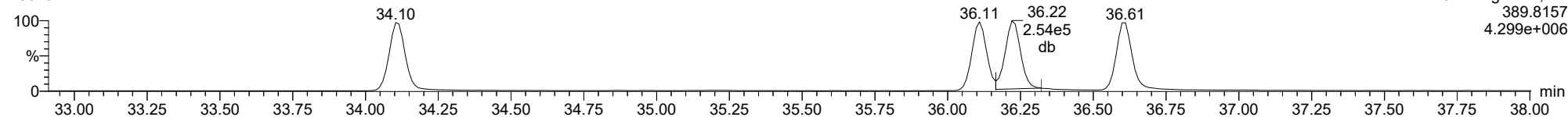
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

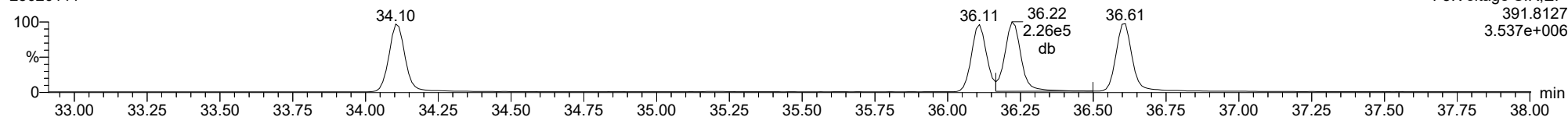
**123678-HxCDD**

23020111



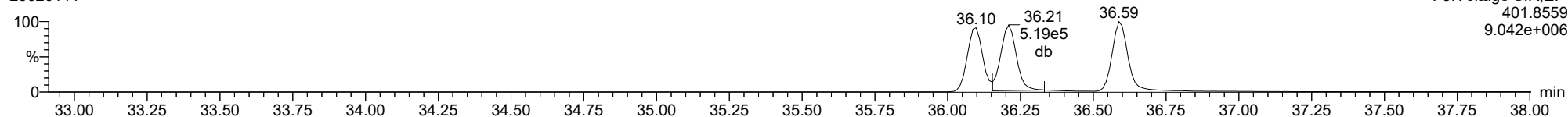
**123678-HxCDD**

23020111



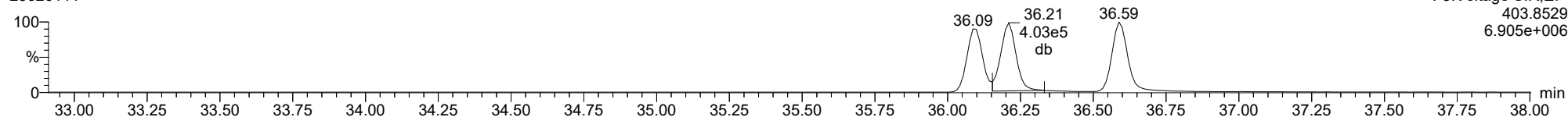
**13C-123678-HxCDD**

23020111



**13C-123678-HxCDD**

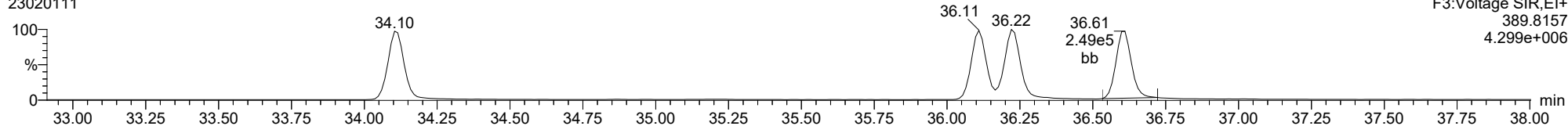
23020111



ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

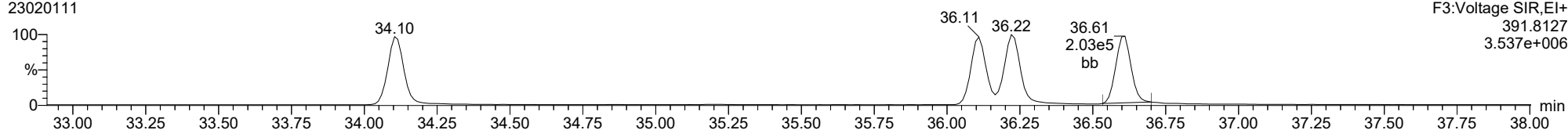
**123789-HxCDD**

23020111



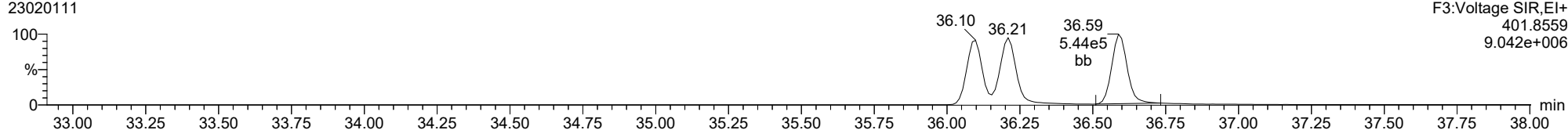
**123789-HxCDD**

23020111



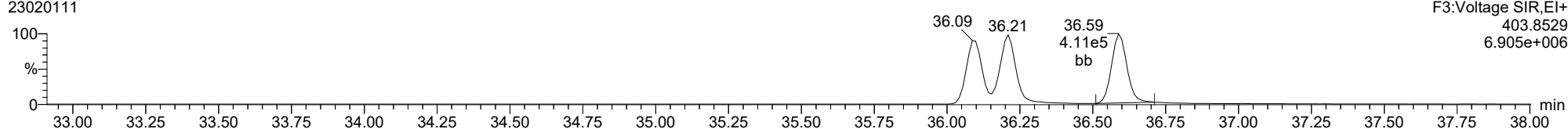
**13C-123789-HxCDD**

23020111



**13C-123789-HxCDD**

23020111

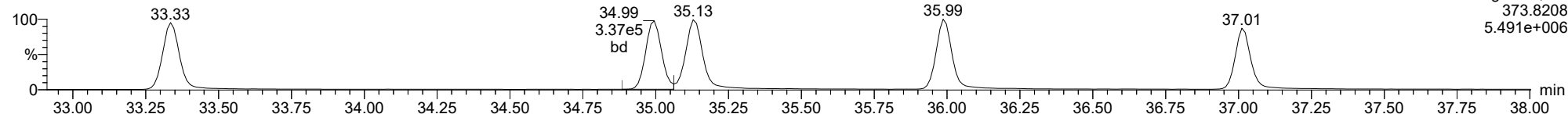




ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

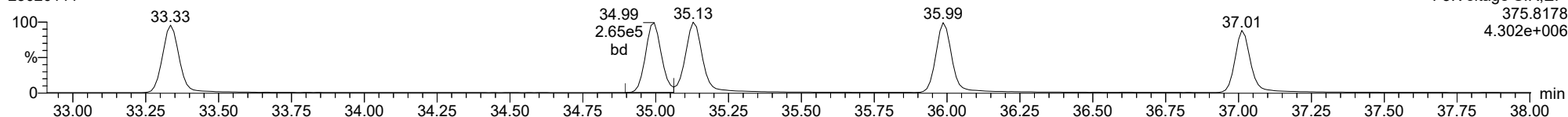
**123478-HxCDF**

23020111



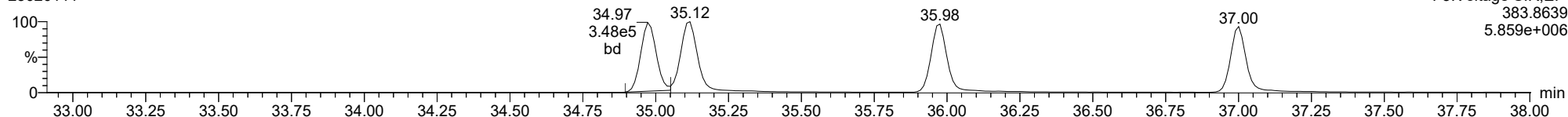
**123478-HxCDF**

23020111



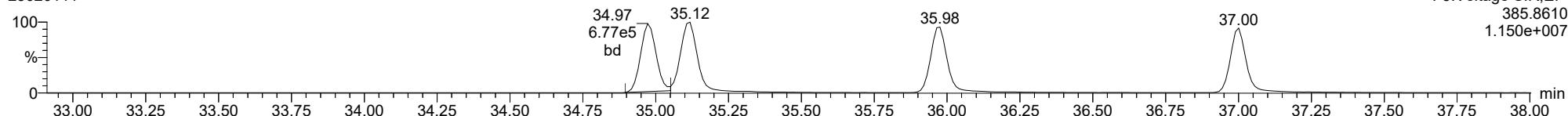
**13C-123478-HxCDF**

23020111



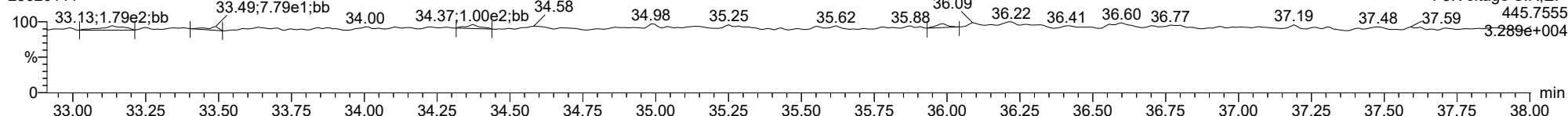
**13C-123478-HxCDF**

23020111



**FUNCTION3 OCDPE**

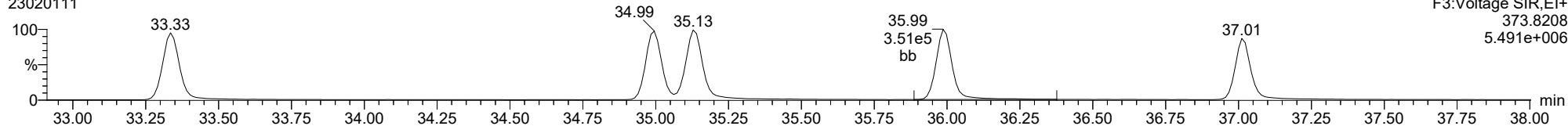
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

**234678-HxCDF**

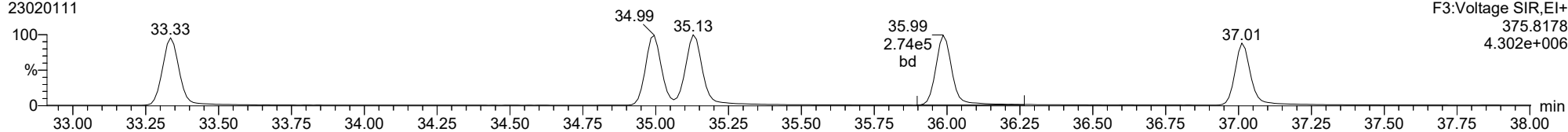
23020111



F3:Voltage SIR,El+  
373.8208  
5.491e+006

**234678-HxCDF**

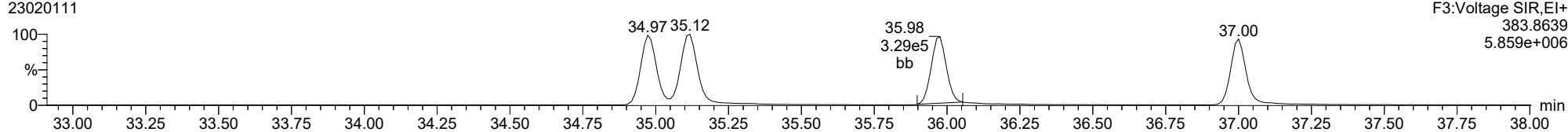
23020111



F3:Voltage SIR,El+  
375.8178  
4.302e+006

**13C-234678-HxCDF**

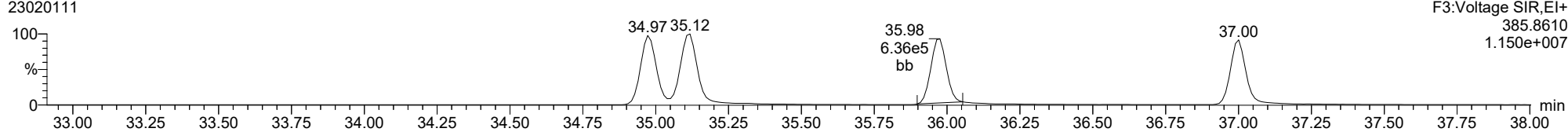
23020111



F3:Voltage SIR,El+  
383.8639  
5.859e+006

**13C-234678-HxCDF**

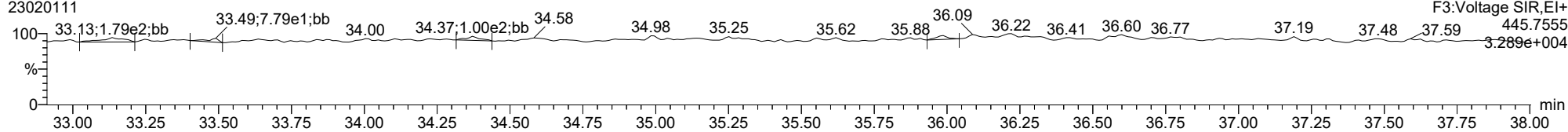
23020111



F3:Voltage SIR,El+  
385.8610  
1.150e+007

**FUNCTION3 OCDPE**

23020111

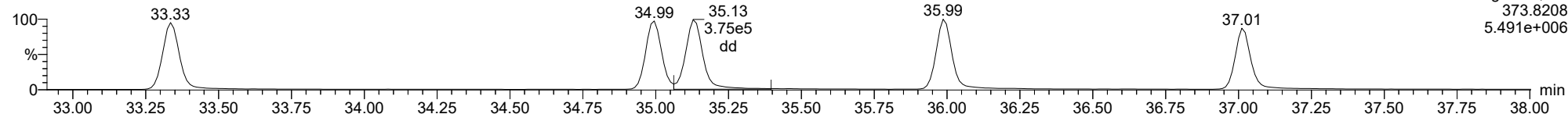


F3:Voltage SIR,El+  
445.7555  
3.289e+004

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

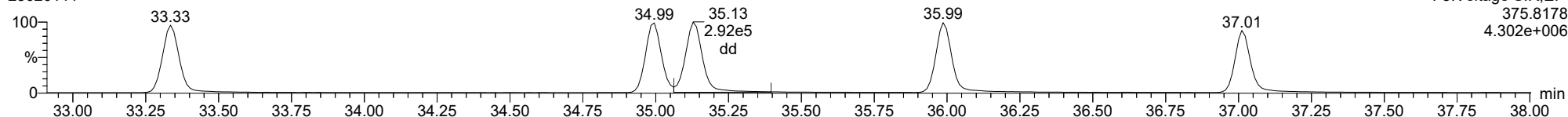
**123678-HxCDF**

23020111



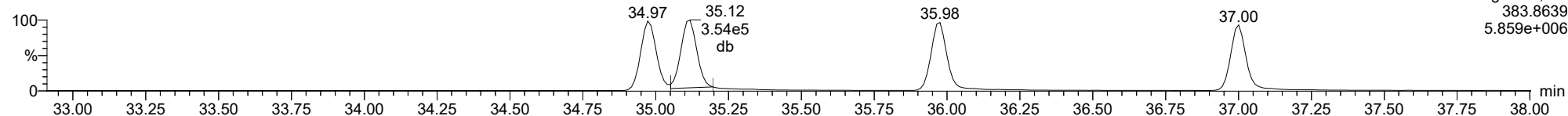
**123678-HxCDF**

23020111



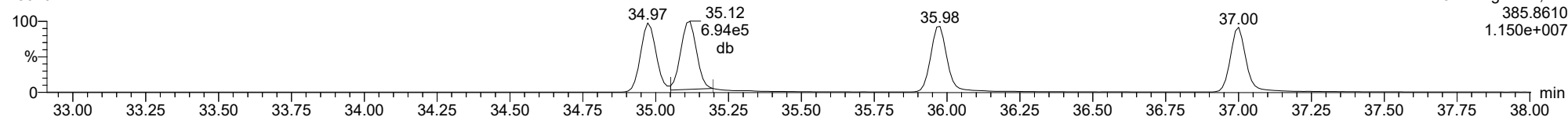
**13C-123678-HxCDF**

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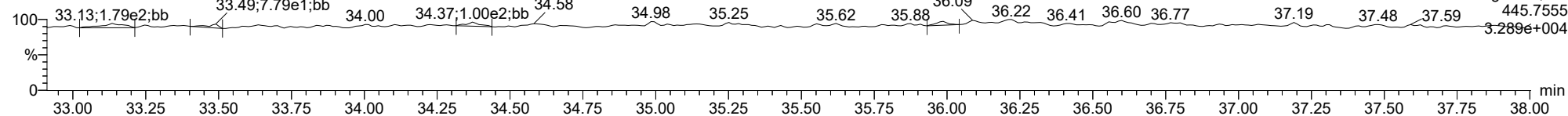
**13C-123678-HxCDF**

23020111



**FUNCTION3 OCDPE**

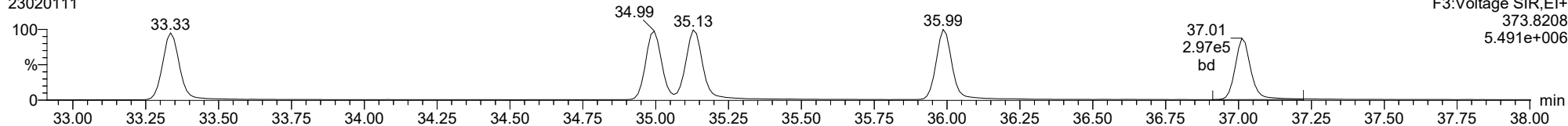
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

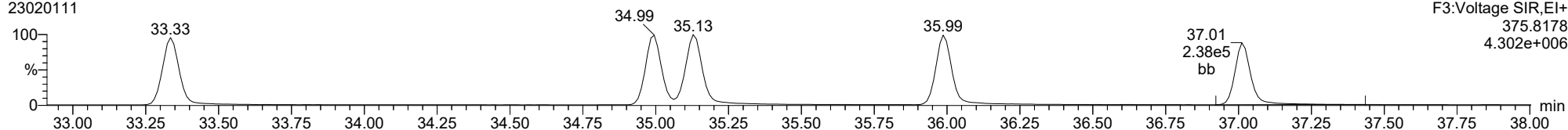
**123789-HxCDF**

23020111



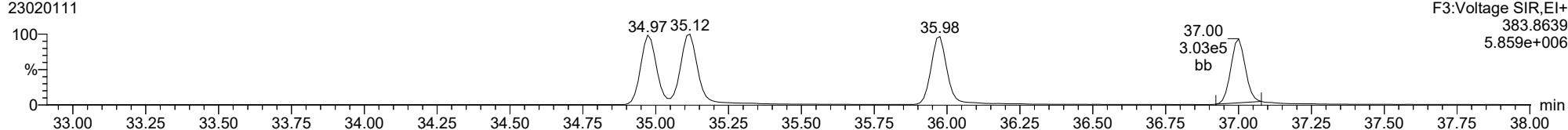
**123789-HxCDF**

23020111



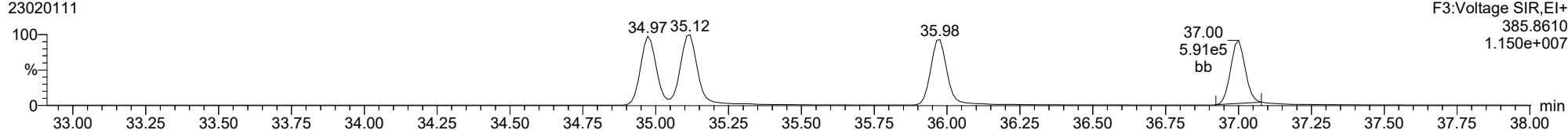
**13C-123789-HxCDF**

23020111



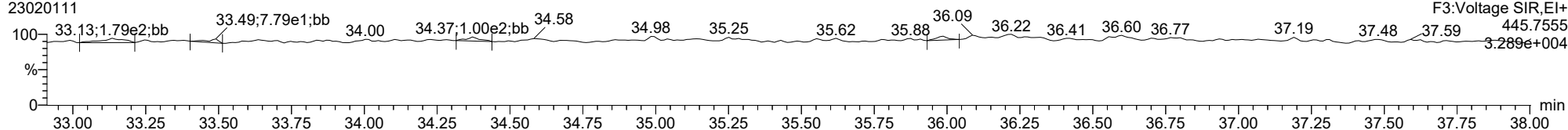
**13C-123789-HxCDF**

23020111



**FUNCTION3 OCDPE**

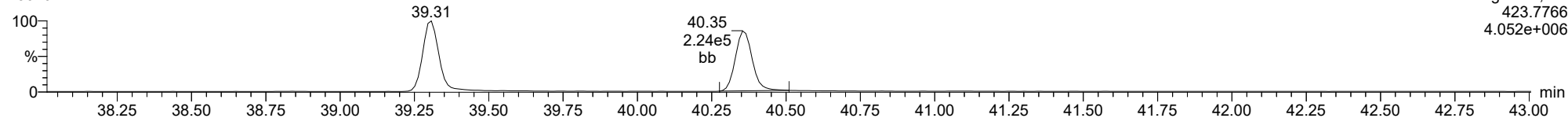
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

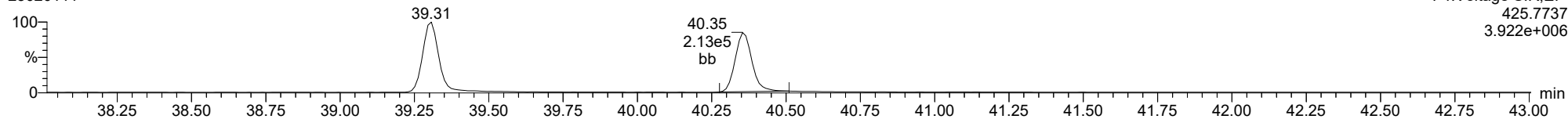
**1234678-HpCDD**

23020111



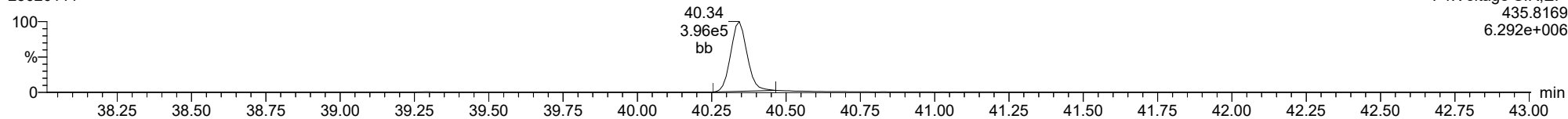
**1234678-HpCDD**

23020111



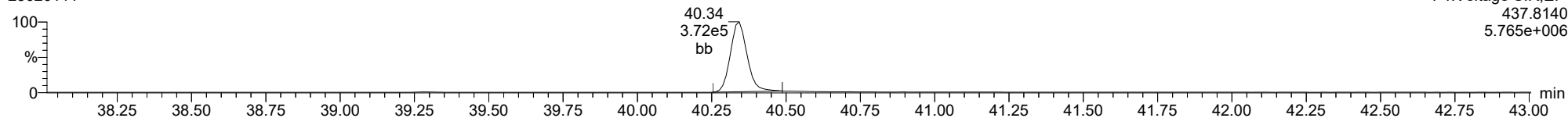
**13C-1234678-HpCDD**

23020111



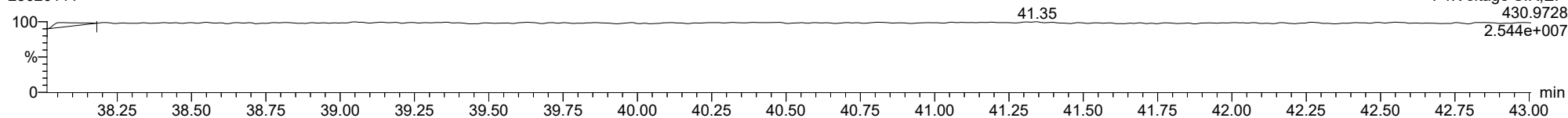
**13C-1234678-HpCDD**

23020111



**FUNCTION4 PFK**

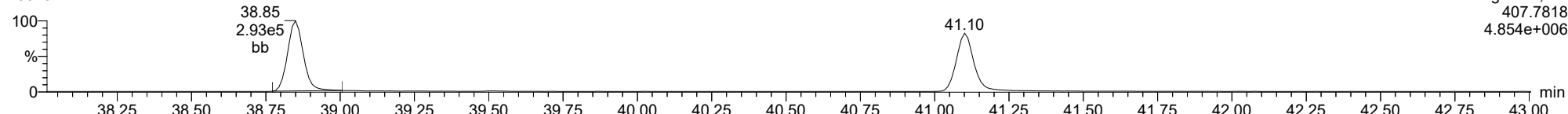
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

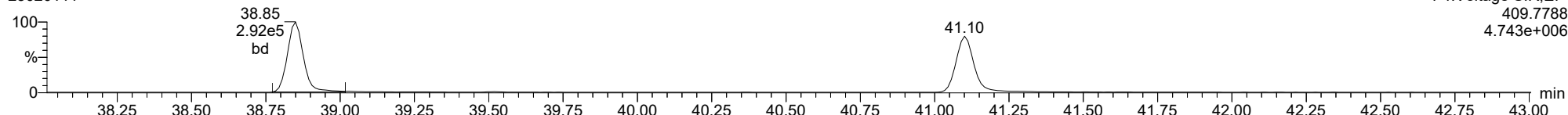
**1234678-HpCDF**

23020111



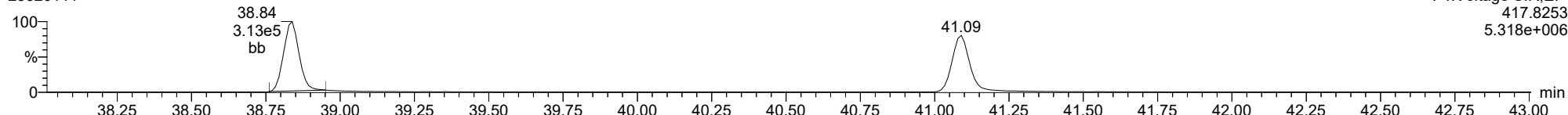
**1234678-HpCDF**

23020111



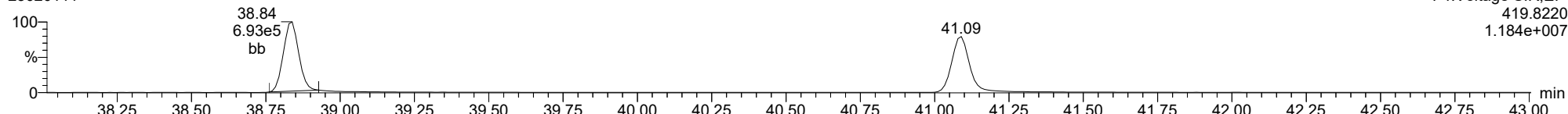
**13C-1234678-HpCDF**

23020111



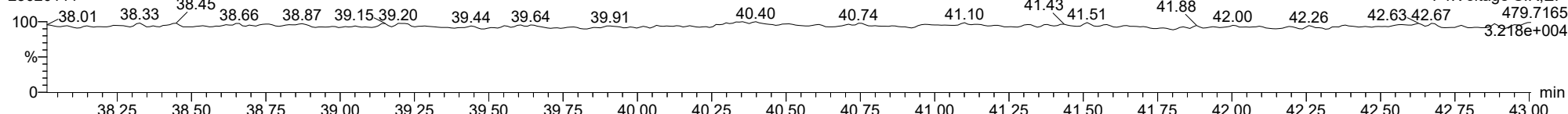
**13C-1234678-HpCDF**

23020111



**FUNCTION4 NCDPE**

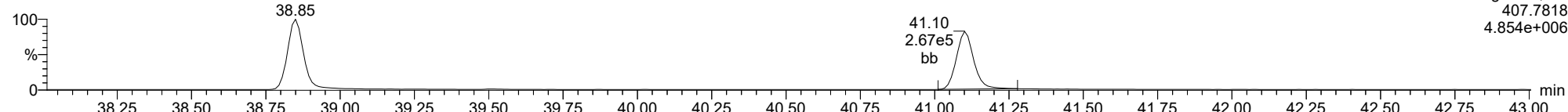
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

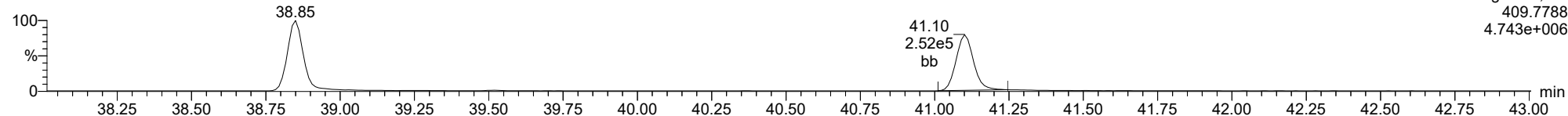
**1234789-HpCDF**

23020111



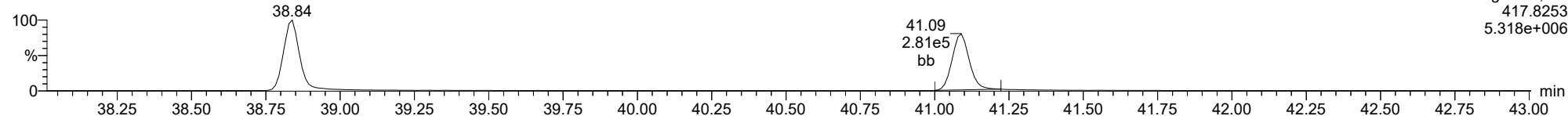
**1234789-HpCDF**

23020111



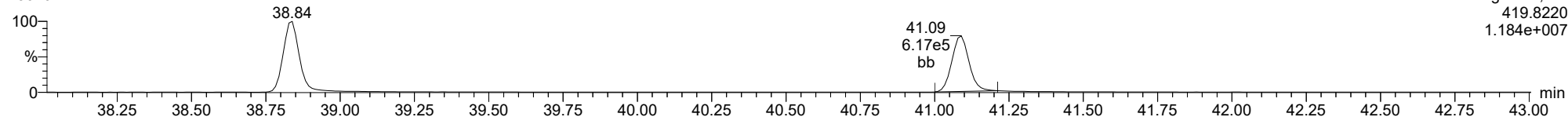
**13C-1234789-HpCDF**

23020111



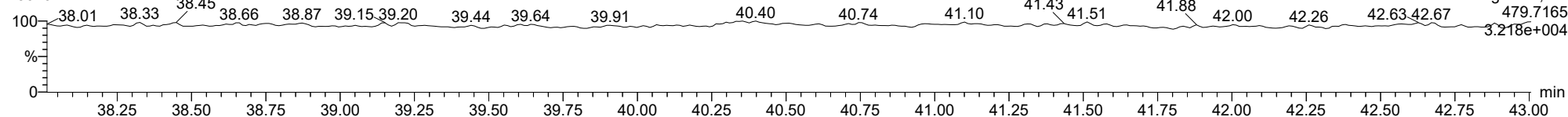
**13C-1234789-HpCDF**

23020111



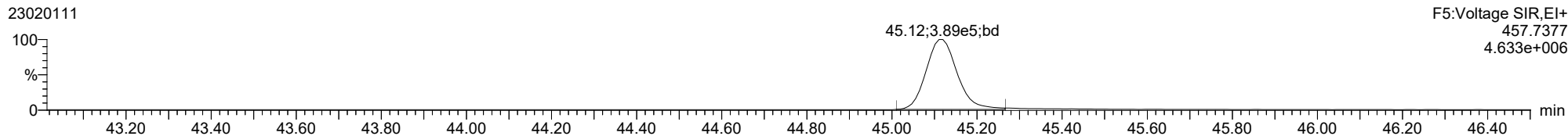
**FUNCTION4 NCDPE**

23020111

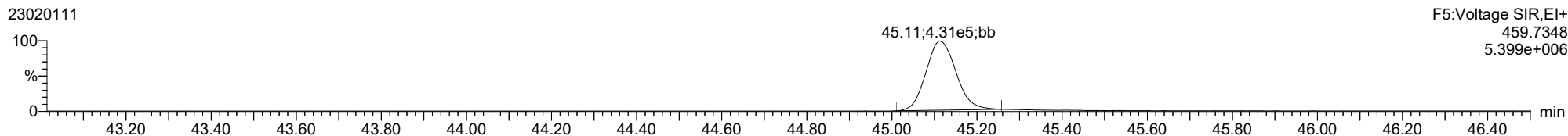


ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

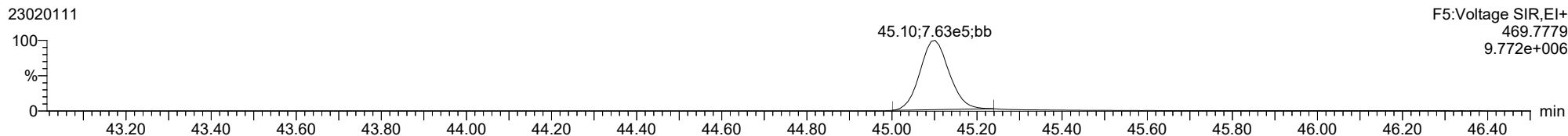
**OCDD**



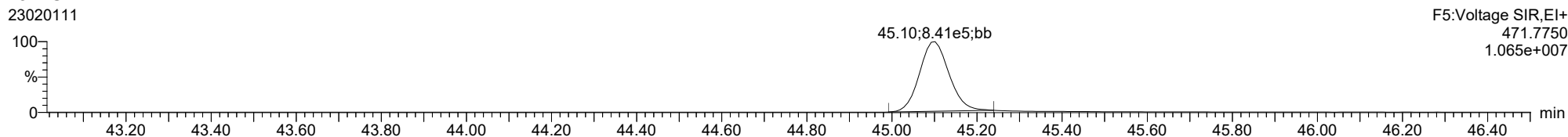
**OCDD**



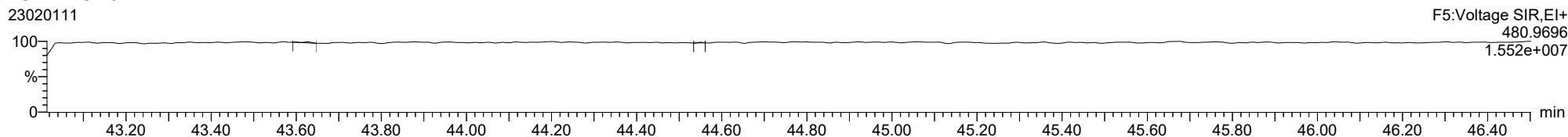
**13C-OCDD**



**13C-OCDD**

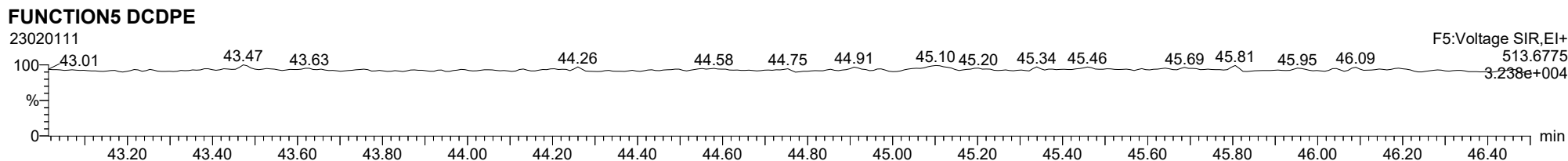
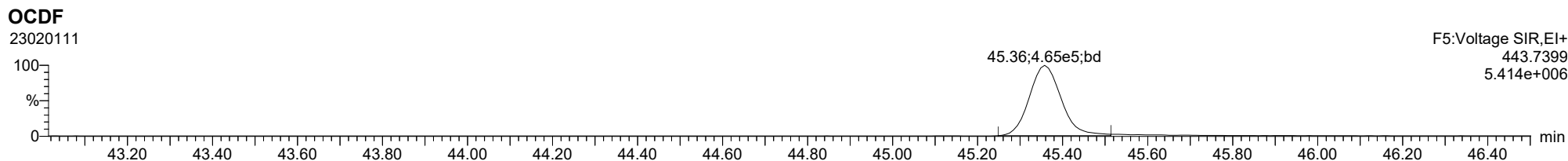
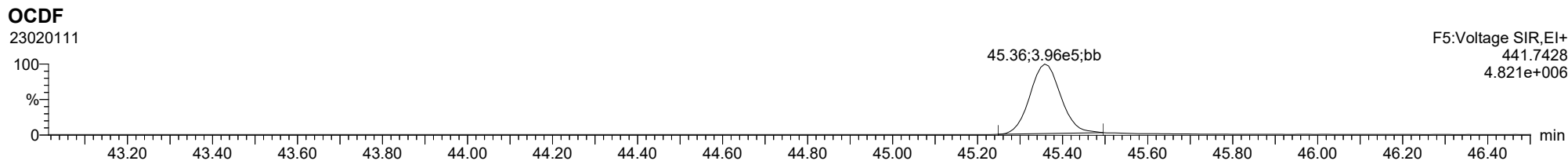


**FUNCTION5 PFK**





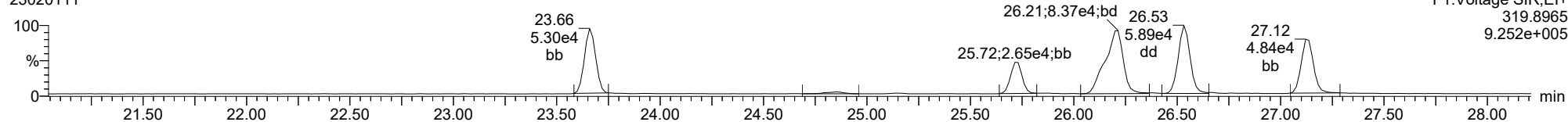
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

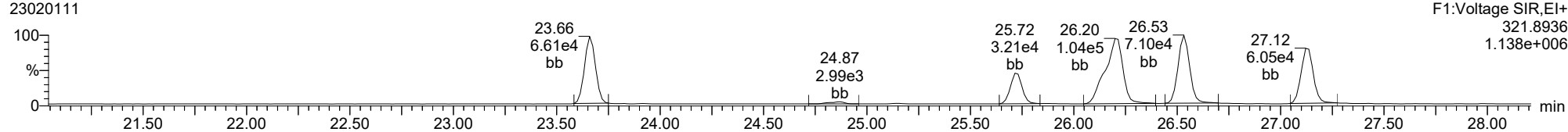
**Total-tetradoxins**

23020111



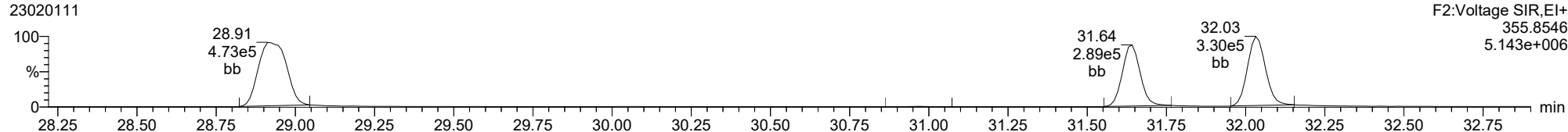
**Total-tetradoxins**

23020111



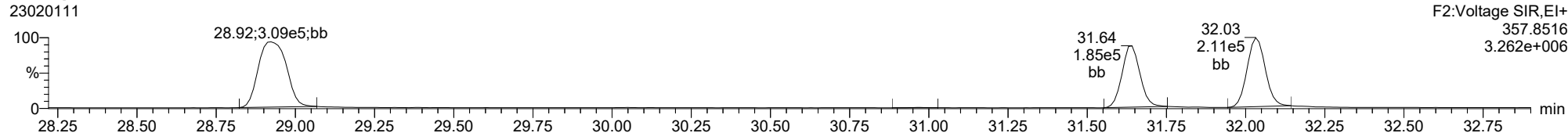
**Total-pentadoxins**

23020111



**Total-pentadoxins**

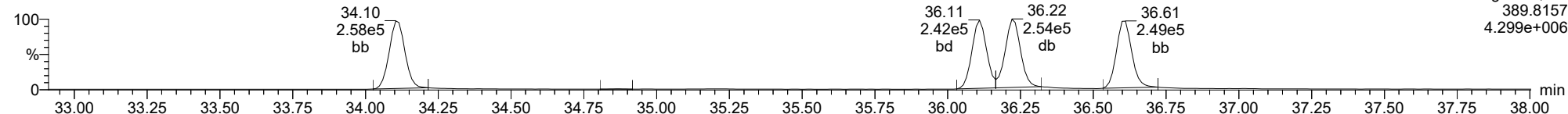
23020111



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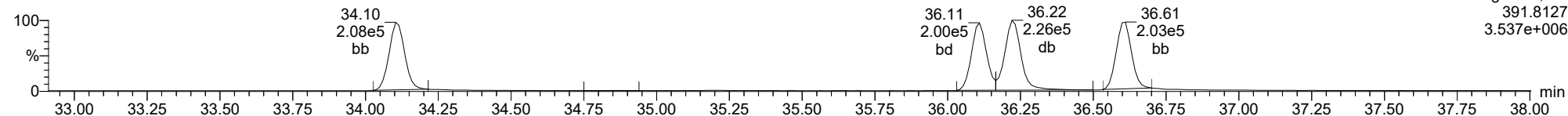
**Total-hexadioxins**

23020111



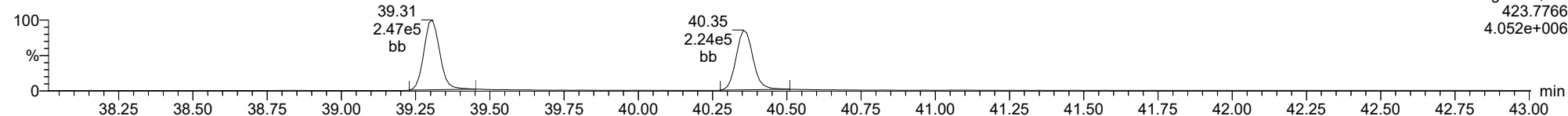
**Total-hexadioxins**

23020111



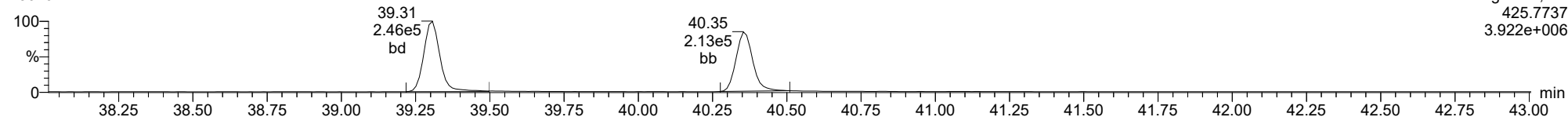
**Total-heptadioxins**

23020111



**Total-heptadioxins**

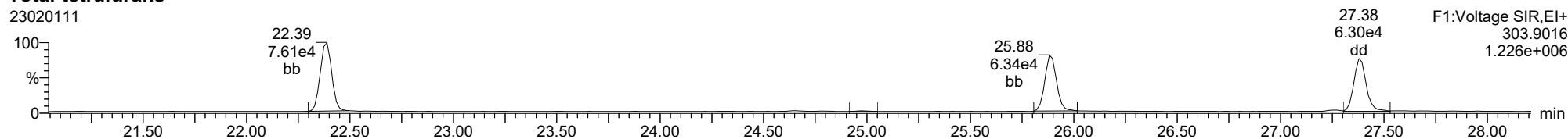
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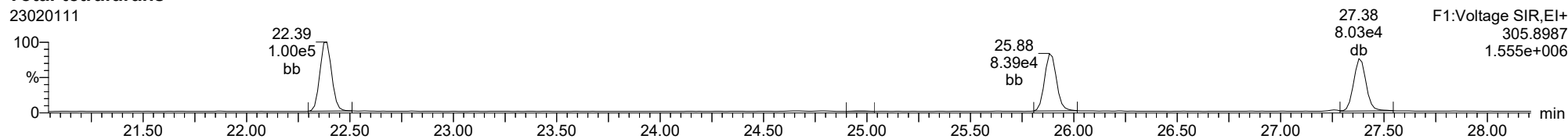
**Total-tetrafurans**

23020111



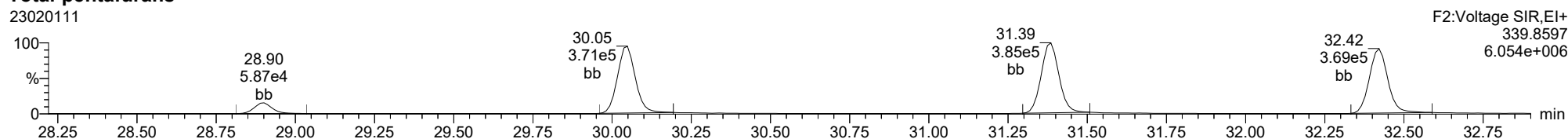
**Total-tetrafurans**

23020111



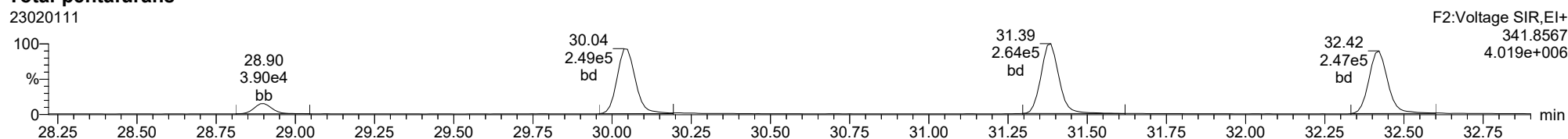
**Total-pentafurans**

23020111



**Total-pentafurans**

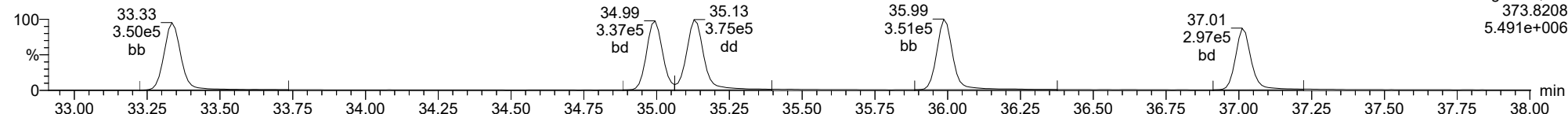
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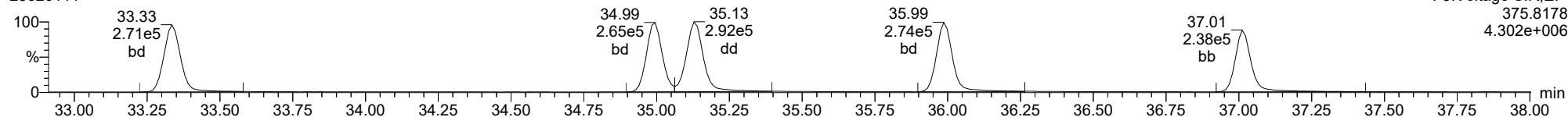
**Total-hexafurans**

23020111



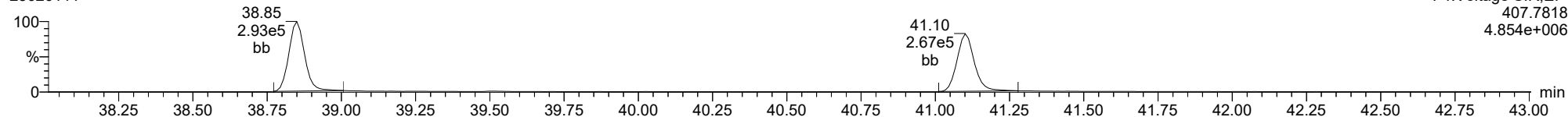
**Total-hexafurans**

23020111



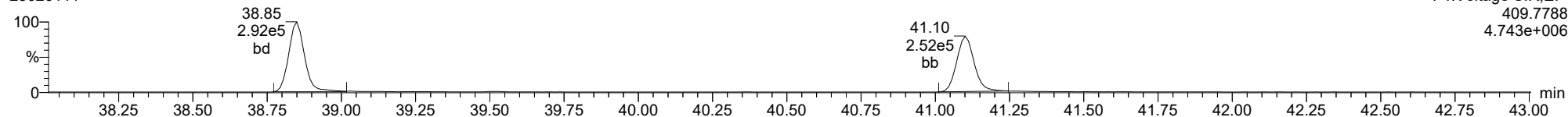
**Total-heptafurans**

23020111

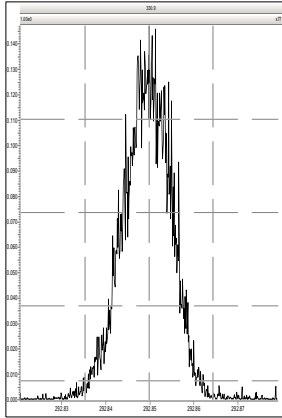


**Total-heptafurans**

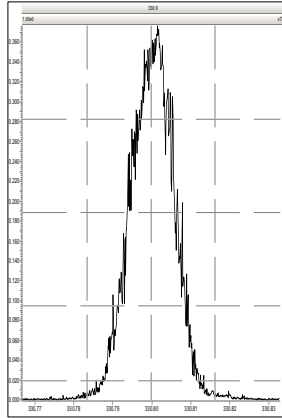
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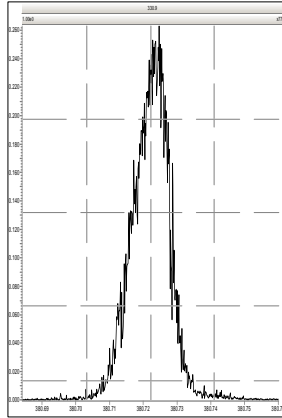
M 292.9824 R 12286



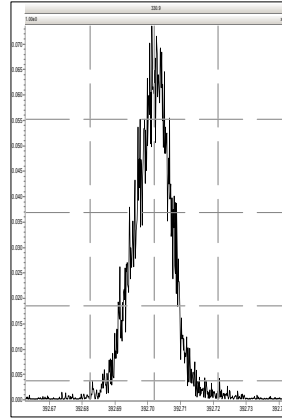
M 330.9792 R 13297



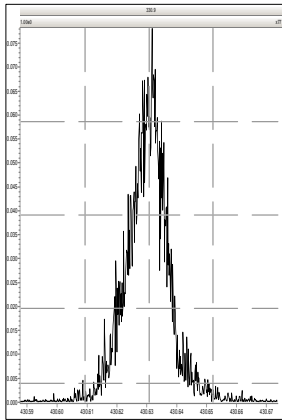
M 380.9760 R 15928



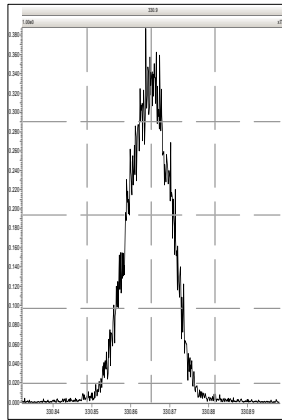
M 392.9760 R 16091



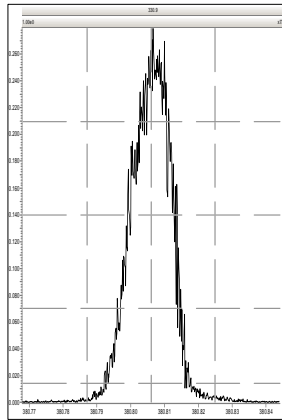
M 430.9728 R 13813



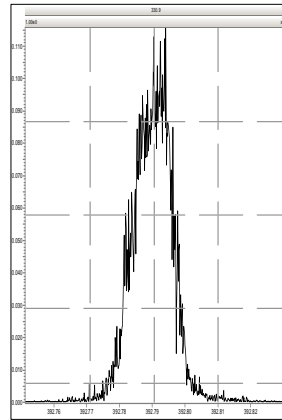
M 330.9792 R 13813



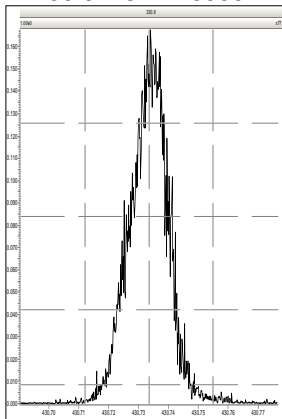
M 380.9760 R 16447



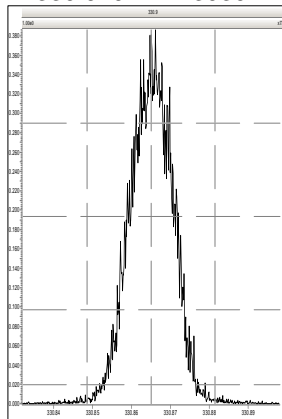
M 392.9760 R 16556



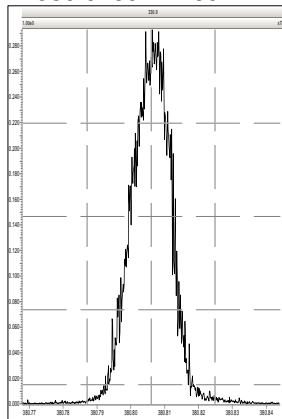
M 430.9728 R 15530



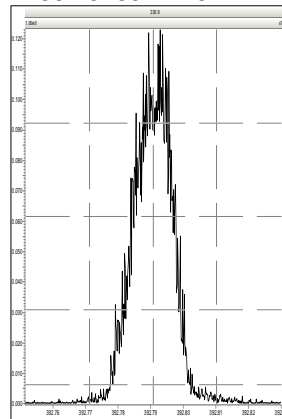
M 330.9792 R 13930



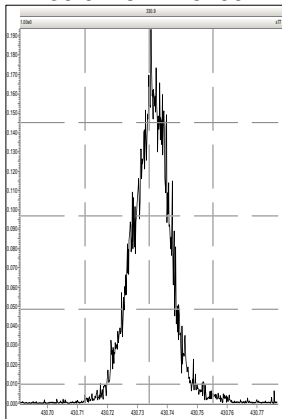
M 380.9760 R 16041



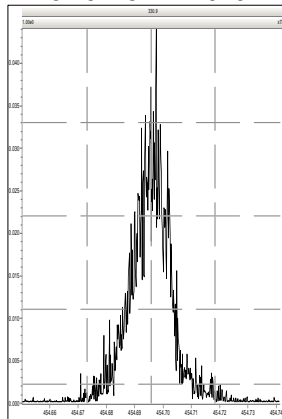
M 392.9760 R 15772



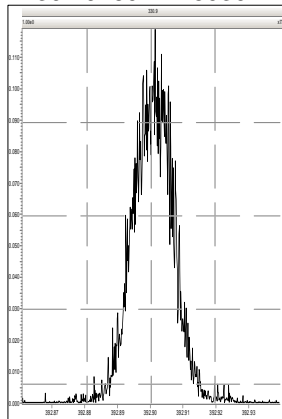
M 430.9728 R 15290



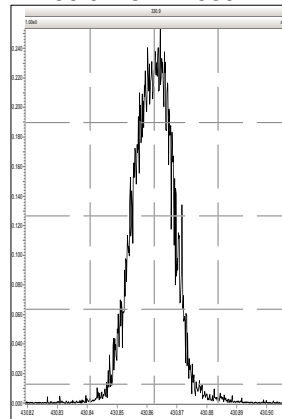
M 454.9728 R 14970



M 392.9760 R 15030

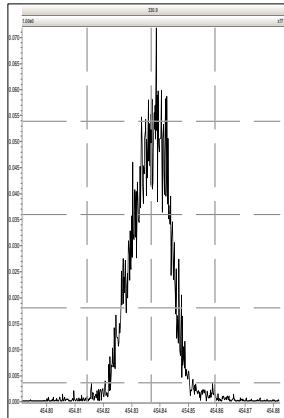


M 430.9728 R 15892

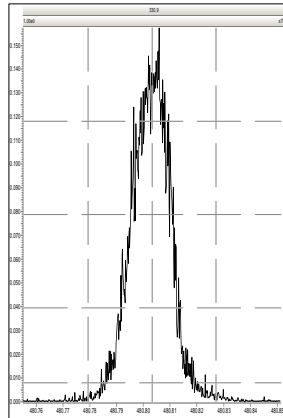


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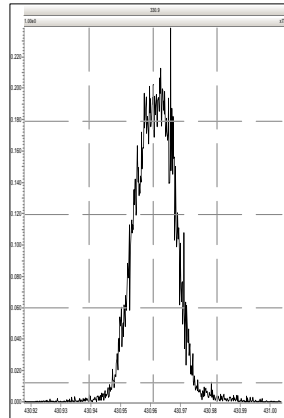
M 454.9728 R 15556



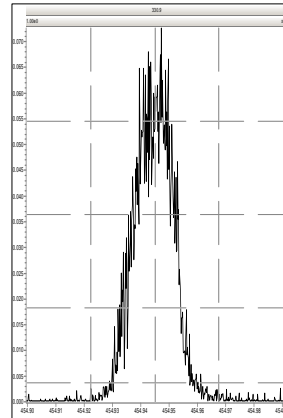
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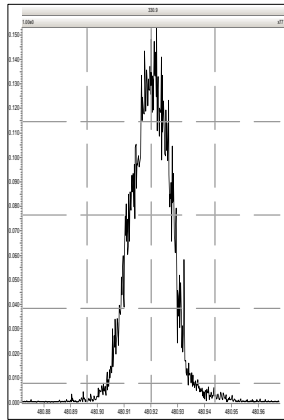
M 430.9728 R 15337



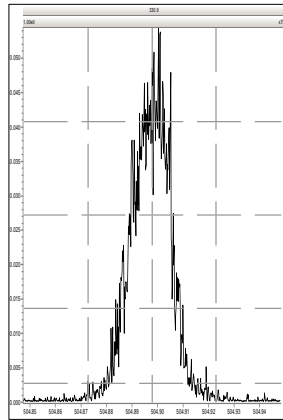
M 454.9728 R 16464



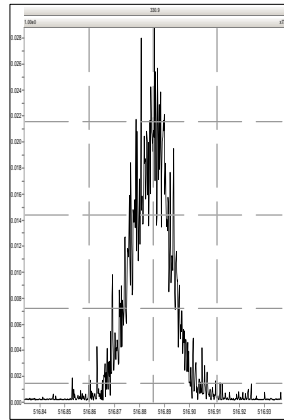
M 480.9696 R 15156



M 504.9696 R 14748



M 516.9697 R 15772

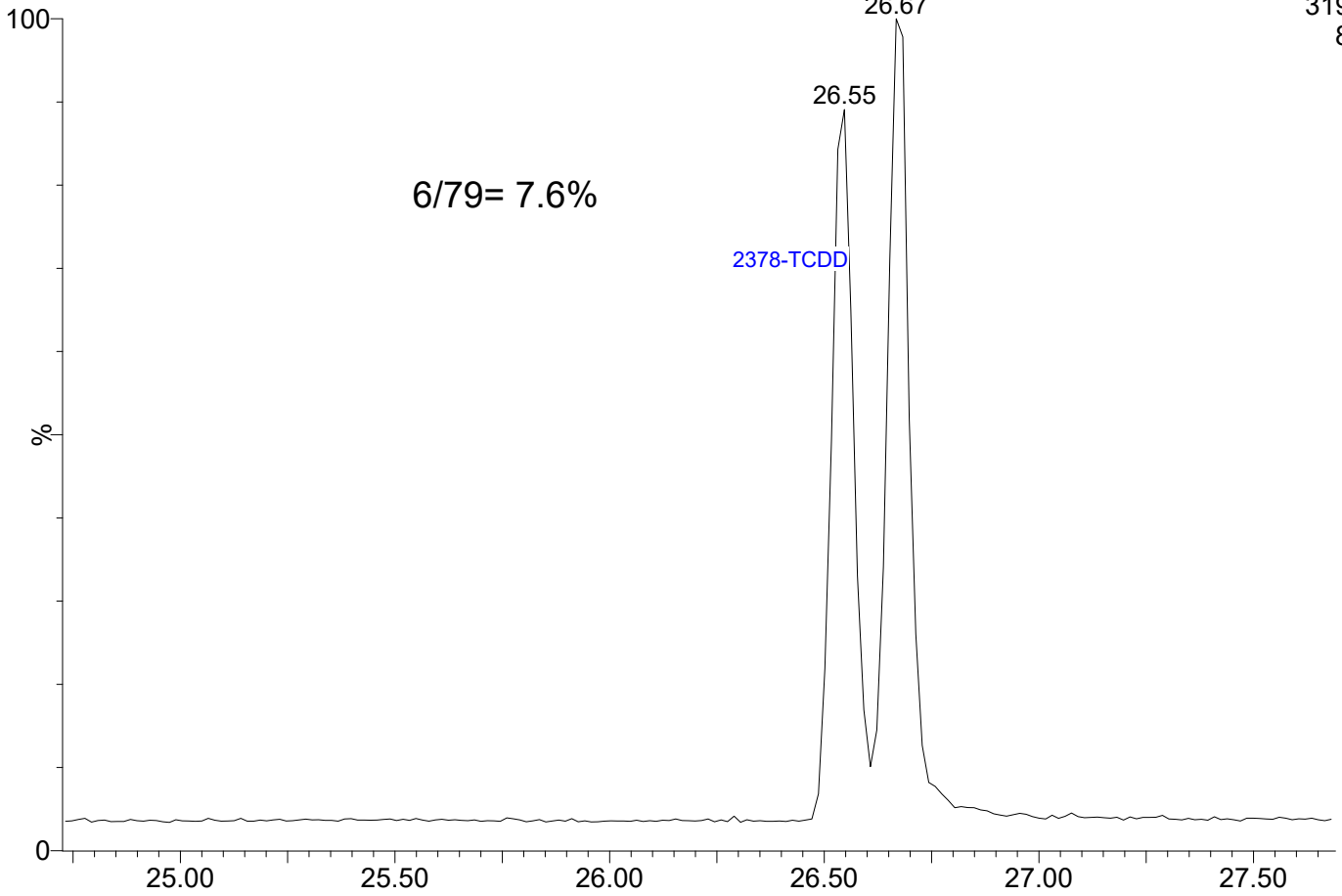


23020112

1: Voltage SIR 15 Channels EI+

319.8965

8.53e5

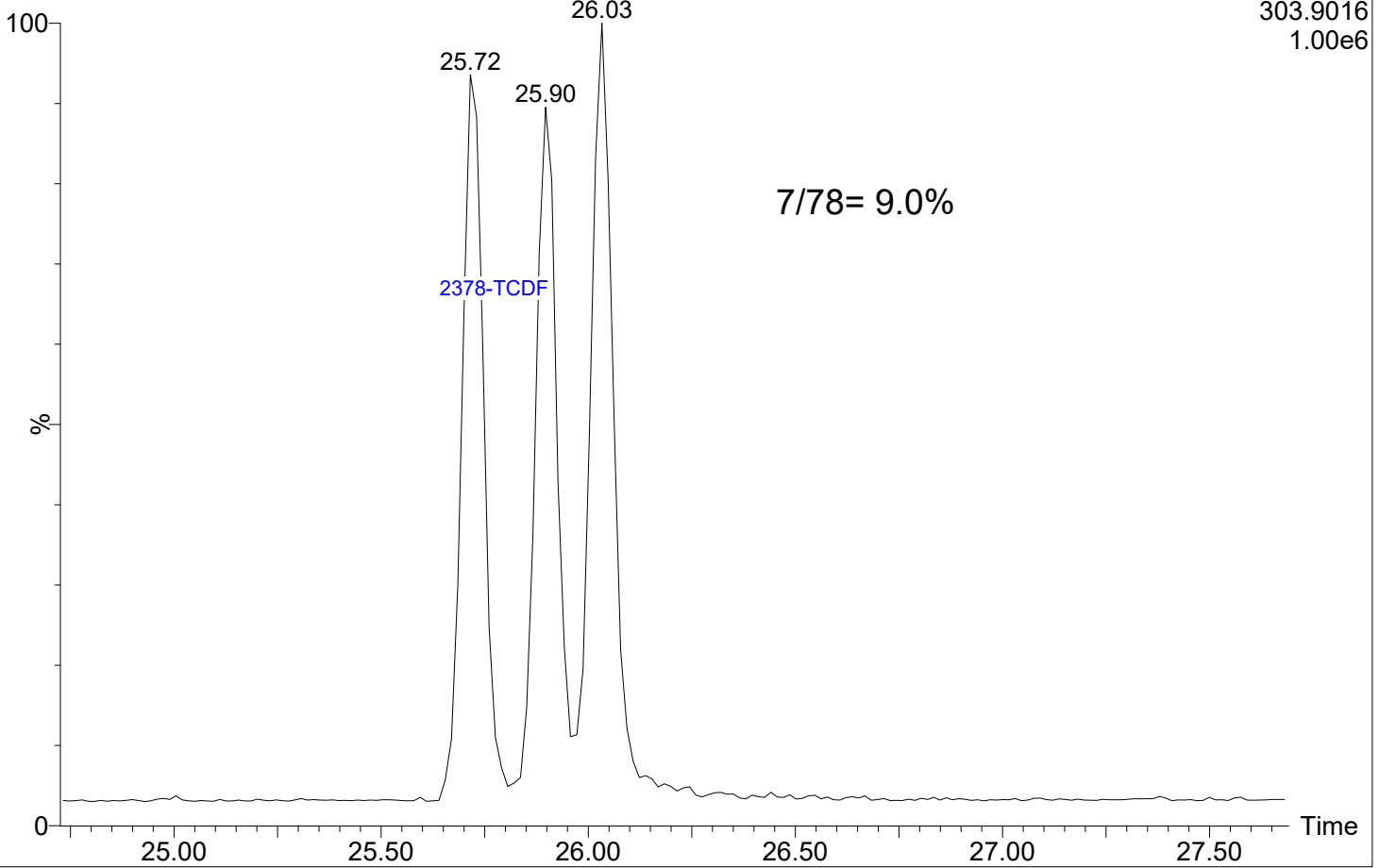


23020112

1: Voltage SIR 15 Channels EI+

303.9016

1.00e6







**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,3,7,8-TCDF			0.5	0.6926363	2	0.6813224	10	0.7107923	40	0.719723	200	0.7031621
2,3,7,8-TCDD			0.5	1.116738	2	1.187915	10	1.134128	40	1.147736	200	1.156792
1,2,3,7,8-PeCDF	0.5	0.7064839	2.5	0.5889757	10	0.710829	50	0.6668491	200	0.6891968	1000	0.7130453
2,3,4,7,8-PeCDF	0.5	0.7979673	2.5	0.750268	10	0.8092124	50	0.7777683	200	0.7907891	1000	0.7910175
1,2,3,7,8-PeCDD	0.5	1.103364	2.5	0.959607	10	1.01992	50	1.019473	200	1.01999	1000	1.008719
1,2,3,4,7,8-HxCDF	0.5	1.217557	2.5	1.181192	10	1.149885	50	1.142227	200	1.15269	1000	1.152678
1,2,3,6,7,8-HxCDF	0.5	1.080855	2.5	1.053928	10	1.175308	50	1.102076	200	1.035098	1000	1.097184
2,3,4,6,7,8-HxCDF	0.5	1.045907	2.5	1.140857	10	1.199347	50	1.11691	200	1.197861	1000	1.13731
1,2,3,7,8,9-HxCDF	0.5	1.190403	2.5	1.119796	10	1.130872	50	1.147742	200	1.139146	1000	1.094601
1,2,3,4,7,8-HxCDD	0.5	1.079554	2.5	0.961704	10	0.973768	50	0.967789	200	0.9862736	1000	1.004325
1,2,3,6,7,8-HxCDD	0.5	0.9586431	2.5	0.9983677	10	0.9838912	50	1.030566	200	1.022077	1000	1.012084
1,2,3,7,8,9-HxCDD	0.5	0.930997	2.5	0.8854269	10	0.8092562	50	0.9267543	200	0.9251392	1000	0.9651099
1,2,3,4,6,7,8-HpCDF	0.5	0.934103	2.5	1.075239	10	1.011687	50	0.9661089	200	1.026311	1000	1.004508
1,2,3,4,7,8,9-HpCDF	0.5	0.8861422	2.5	0.8930411	10	1.006144	50	0.9387033	200	0.9934576	1000	1.001203
1,2,3,4,6,7,8-HpCDD	0.5	1.103772	2.5	0.971421	10	1.040117	50	1.038088	200	1.030577	1000	1.050103
OCDF	1	0.8118871	5	0.7091624	20	0.7657645	100	0.7266152	400	0.8162858	2000	0.8371317
OCDD			5	1.012935	20	0.8906655	100	0.878436	400	0.9061913	2000	0.9115405
13C12-2,3,7,8-TCDF	100	1.631571	100	1.588495	100	1.670669	100	1.492829	100	1.645068	100	1.692541
13C12-2,3,7,8-TCDD	100	1.103543	100	1.165686	100	1.103763	100	1.147762	100	1.181831	100	1.211872
13C12-1,2,3,7,8-PeCDF	100	1.373516	100	0.8861478	100	1.254697	100	1.157546	100	1.425701	100	1.345107
13C12-2,3,4,7,8-PeCDF	100	1.219579	100	0.8983995	100	1.113808	100	0.8611233	100	1.32733	100	1.286474
13C12-1,2,3,7,8-PeCDD	100	0.9177021	100	0.7002528	100	0.8365419	100	0.5962156	100	0.9821822	100	0.939983
13C12-1,2,3,4,7,8-HxCDF	100	1.152029	100	1.095885	100	1.513935	100	1.121285	100	1.094572	100	1.032122
13C12-1,2,3,6,7,8-HxCDF	100	1.353853	100	1.348693	100	1.689158	100	1.367383	100	1.37092	100	1.188788
13C12-2,3,4,6,7,8-HxCDF	100	1.092029	100	1.127896	100	1.240354	100	1.126074	100	1.087409	100	1.101774
13C12-1,2,3,7,8,9-HxCDF	100	0.8958406	100	0.9493947	100	0.9152119	100	0.9630403	100	0.8996667	100	0.9673701
13C12-1,2,3,4,7,8-HxCDD	100	0.9718531	100	0.9656819	100	1.113686	100	0.9864835	100	0.9766715	100	0.95586
13C12-1,2,3,6,7,8-HxCDD	100	1.184228	100	1.157253	100	1.278683	100	1.163318	100	1.111106	100	1.045546



**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
13C12-1,2,3,4,6,7,8-HpCDF	100	0.7396157	100	0.9023055	100	1.063192	100	0.9589237	100	0.7622694	100	0.9449039
13C12-1,2,3,4,7,8,9-HpCDF	100	0.6488087	100	0.8119515	100	0.8176949	100	0.8667001	100	0.665459	100	0.8078955
13C12-1,2,3,4,6,7,8-HpCDD	100	0.724191	100	0.8737196	100	0.9555336	100	0.9094052	100	0.7229358	100	0.8549505
13C12-OCDD	200	0.701507	200	0.6312376	200	0.823691	200	0.8980531	200	0.7066522	200	0.8436876
37C14-2,3,7,8-TCDD	0.1	1.576039	0.5	1.320077	2	1.177166	10	1.132717	40	1.2366	200	1.284223
13C12-1,2,3,4-TCDD	100	1	100	1	100	1	100	1	100	1	100	1
13C12-1,2,3,7,8,9-HxCDD	100	1	100	1	100	1	100	1	100	1	100	1



**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2,3,7,8-TCDF	0.7015272	2.1			RSD ()	
2,3,7,8-TCDD	1.148662	2.3			RSD ()	
1,2,3,7,8-PeCDF	0.67923	7.0			RSD ()	
2,3,4,7,8-PeCDF	0.7861704	2.6			RSD ()	
1,2,3,7,8-PeCDD	1.021845	4.5			RSD ()	
1,2,3,4,7,8-HxCDF	1.166038	2.4			RSD ()	
1,2,3,6,7,8-HxCDF	1.090741	4.5			RSD ()	
2,3,4,6,7,8-HxCDF	1.139699	5.0			RSD ()	
1,2,3,7,8,9-HxCDF	1.137093	2.8			RSD ()	
1,2,3,4,7,8-HxCDD	0.9955689	4.4			RSD ()	
1,2,3,6,7,8-HxCDD	1.000938	2.7			RSD ()	
1,2,3,7,8,9-HxCDD	0.9071139	6.0			RSD ()	
1,2,3,4,6,7,8-HpCDF	1.002993	4.9			RSD ()	
1,2,3,4,7,8,9-HpCDF	0.9531152	5.8			RSD ()	
1,2,3,4,6,7,8-HpCDD	1.039013	4.1			RSD ()	
OCDF	0.7778078	6.7			RSD ()	
OCDD	0.9199537	5.8			RSD ()	
13C12-2,3,7,8-TCDF	1.620196	4.4			RSD ()	
13C12-2,3,7,8-TCDD	1.152409	3.8			RSD ()	
13C12-1,2,3,7,8-PeCDF	1.240452	15.9			RSD ()	
13C12-2,3,4,7,8-PeCDF	1.117786	17.7			RSD ()	
13C12-1,2,3,7,8-PeCDD	0.8288129	18.3			RSD ()	
13C12-1,2,3,4,7,8-HxCDF	1.168305	14.9			RSD ()	
13C12-1,2,3,6,7,8-HxCDF	1.386466	11.8			RSD ()	
13C12-2,3,4,6,7,8-HxCDF	1.129256	5.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDF	0.9317541	3.4			RSD ()	
13C12-1,2,3,4,7,8-HxCDD	0.9950393	5.9			RSD ()	
13C12-1,2,3,6,7,8-HxCDD	1.156689	6.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDF	0.8952017	13.8			RSD ()	
13C12-1,2,3,4,7,8,9-HpCDF	0.7697516	11.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDD	0.8401226	11.5			RSD ()	



**INITIAL CALIBRATION DATA**  
**EPA 1613B**

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

<b>COMPOUND</b>	<b>Mean RRF</b>	<b>RRF RSD</b>	<b>Linear COD</b>	<b>Quad COD</b>	<b>Limit Type &amp; Limit</b>	<b>Q</b>
13C12-OCDD	0.7674714	13.4			RSD ()	
37C14-2,3,7,8-TCDD	1.287804	12.2			RSD ()	
13C12-1,2,3,4-TCDD	1	0.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDD	1	0.0			RSD ()	



ANALYSIS SEQUENCE

SLC0045

Instrument: AUTOSPEC01      HRGCMS Column ID: K2310  
Calibration ID: GC00015      Tune File: FEB0923\_1-5  
EM Voltage: 350      Resolution check times : 9:51, 18:18

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0045-ICV1	CS3W1	QC		1	K009821		03/03/2023 09:51	23030302	PK	
SLC0045-RES1	ISCW1	QC		2	L002084		03/03/2023 10:39	23030303	PK	
SLC0045-CAL1	CSLCW	QC		3	I005460		03/03/2023 11:28	23030304	PK	
SLC0045-CAL2	CS1CW	QC		4	I005456		03/03/2023 12:23	23030305	PK	
SLC0045-CAL3	CS2CW	QC		5	I005457		03/03/2023 13:16	23030306	PK	
SLC0045-CAL4	CS3CW	QC		6	K009821		03/03/2023 14:06	23030307	PK	
SLC0045-CAL5	CS4CW	QC		7	I005458		03/03/2023 14:59	23030308	PK	
SLC0045-CAL6	CS5CW	QC		8	I005459		03/03/2023 15:47	23030309	PK	
SLC0045-SCV1	ICVCW	QC		9	H008219		03/03/2023 16:36	23030310	PK	
SLC0045-CCV1	CS3V4	QC		10	K009821		03/03/2023 17:25	23030311	PK	
SLC0045-RES2	ISCV4	QC		11	L002084		03/03/2023 18:18	23030312	PK	

Dataset: T:\Autospec\Processed Data Batch\2303031CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 10:58:44 Pacific Standard Time

3/6/23 PK

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23030304, Compound:TD, RT:26.410	1
Peak deleted	Sample:23030304, Compound:OD, RT:44.990	1
Peak deleted	Sample:23030304, Compound:TF, RT:25.774	1
Pre modification peak	Sample:23030305, Compound:TF, RT:25.774	2
Peak modified	Sample:23030305, Compound:TF, RT:25.774	2
Pre modification peak	Sample:23030304, Compound:HPD, RT:40.261	1
Peak modified	Sample:23030304, Compound:HPD, RT:40.261	1
Peak deleted	Sample:23030308, Compound:PF, RT:32.328	5
Peak deleted	Sample:23030309, Compound:PF, RT:32.307	6
Peak deleted	Sample:23030309, Compound:HF, RT:33.220	6
Peak deleted	Sample:23030309, Compound:TD, RT:27.017	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.995	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.917	6
Peak deleted	Sample:23030308, Compound:HD, RT:34.000	5
Peak deleted	Sample:23030308, Compound:HPD, RT:39.225	5
Peak deleted	Sample:23030309, Compound:HPD, RT:39.214	6
Pre modification peak	Sample:23030305, Compound:OF, RT:45.237	2
Peak modified	Sample:23030305, Compound:OF, RT:45.237	2
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\2303031CIH.qld'	

Dataset: T:\Autospec\Processed Data Batch\230303IHOP.qld  
 Last Altered: Monday, March 06, 2023 11:36:30 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:37:17 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50**  
**Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27**

**ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	4.469e4	5.839e4	0.702	0.765	0.770	894	1638	6.87e5	9.09e5	769.3	554.8	NO	bb	bb	9.550
12378-PeCDF	29.956	1.001	2.355e5	1.540e5	0.679	1.529	1.550	2187	1572	3.61e6	2.40e6	1652.4	1526.9	NO	bb	bb	49.641
23478-PeCDF	31.293	1.001	2.214e5	1.482e5	0.786	1.494	1.550	2187	1572	3.41e6	2.30e6	1560.8	1464.8	NO	bb	bb	47.528
123478-HxCDF	34.914	1.001	2.600e5	2.102e5	1.166	1.237	1.240	1592	1910	4.13e6	3.31e6	2594.2	1730.9	NO	bd	bd	47.118
234678-HxCDF	35.917	1.001	2.733e5	2.175e5	1.140	1.257	1.240	1592	1910	4.33e6	3.47e6	2719.2	1818.9	NO	bb	bb	49.341
123678-HxCDF	35.048	1.000	2.727e5	2.151e5	1.091	1.268	1.240	1592	1910	4.23e6	3.33e6	2659.9	1743.3	NO	db	db	49.569
123789-HxCDF	36.941	1.000	2.420e5	1.912e5	1.137	1.266	1.240	1592	1910	3.95e6	3.13e6	2482.2	1637.3	NO	bb	bb	46.959
1234678-HpCDF	38.780	1.000	1.767e5	1.776e5	1.003	0.995	1.050	1849	2300	2.99e6	3.02e6	1618.0	1311.0	NO	bb	bb	47.490
1234789-HpCDF	41.019	1.000	1.595e5	1.575e5	0.953	1.013	1.050	1849	2300	2.36e6	2.33e6	1274.2	1012.6	NO	bb	bb	50.221
OCDF	45.246	1.005	2.326e5	2.612e5	0.778	0.891	0.890	910	1225	2.82e6	3.14e6	3100.2	2559.9	NO	bb	bb	88.591
2378-TCDD	26.438	1.001	5.709e4	7.150e4	1.149	0.798	0.770	1506	757	9.09e5	1.12e6	603.1	1485.0	NO	bb	bb	9.450
12378-PeCDD	31.549	1.001	2.156e5	1.424e5	1.022	1.514	1.550	2044	1419	3.32e6	2.17e6	1626.0	1530.4	NO	bb	bb	49.654
123478-HxCDD	36.028	1.000	2.225e5	1.815e5	0.996	1.226	1.240	1845	1377	3.65e6	2.93e6	1979.4	2130.4	NO	bd	bd	50.053
123678-HxCDD	36.150	1.000	2.361e5	1.995e5	1.001	1.184	1.240	1845	1377	3.83e6	3.15e6	2076.5	2285.7	NO	db	db	49.648
123789-HxCDD	36.529	1.011	2.267e5	1.883e5	0.907	1.204	1.240	1845	1377	3.65e6	3.02e6	1979.8	2191.3	NO	bb	bb	54.229
1234678-HpCDD	40.284	1.001	1.918e5	1.891e5	1.039	1.015	1.050	2026	1655	2.99e6	2.92e6	1477.4	1764.9	NO	bb	bb	47.619
OCDD	45.008	1.000	3.015e5	3.475e5	0.920	0.868	0.890	1418	1100	3.70e6	4.29e6	2606.9	3904.9	NO	bb	bb	98.432
13C-2378-TCDF	25.774	1.007	6.611e5	8.775e5	1.620	0.753	0.770	2458	1918	1.00e7	1.34e7	4080.0	6997.2	NO	bb	bb	94.015
13C-12378-PeCDF	29.934	1.169	6.937e5	4.618e5	1.240	1.502	1.550	2176	1857	1.07e7	7.10e6	4925.2	3826.5	NO	bb	bb	92.213
13C-23478-PeCDF	31.271	1.221	5.928e5	3.963e5	1.118	1.496	1.550	2176	1857	9.20e6	6.25e6	4229.1	3368.5	NO	bb	bb	87.601
13C-123478-HxCDF	34.891	0.955	2.871e5	5.687e5	1.168	0.505	0.510	1657	1593	4.56e6	9.04e6	2750.7	5674.1	NO	bd	bd	84.013
13C-123678-HxCDF	35.036	0.959	3.069e5	5.954e5	1.386	0.515	0.510	1657	1593	4.75e6	9.14e6	2868.0	5738.5	NO	db	db	74.642
13C-234678-HxCDF	35.894	0.983	2.954e5	5.775e5	1.129	0.512	0.510	1657	1593	4.85e6	9.48e6	2926.1	5951.0	NO	bb	bb	88.651
13C-123789-HxCDF	36.930	1.011	2.724e5	5.390e5	0.932	0.505	0.510	1657	1593	4.39e6	8.57e6	2648.2	5379.8	NO	bb	bb	99.871
13C-1234678-HpCDF	38.769	1.062	2.262e5	5.177e5	0.895	0.437	0.440	2036	2545	3.83e6	8.70e6	1881.8	3416.5	NO	bb	bb	95.295
13C-1234789-HpCDF	41.008	1.123	1.995e5	4.627e5	0.770	0.431	0.440	2036	2545	2.95e6	6.70e6	1450.8	2632.3	NO	bb	bb	98.667
13C-1234-TCDD	25.605	0.000	4.500e5	5.601e5	1.000	0.803	0.770	1910	1117	7.08e6	8.81e6	3705.2	7891.1	NO	bb	bb	100.000
13C-2378-TCDD	26.424	1.032	5.241e5	6.605e5	1.152	0.794	0.770	1910	1117	7.92e6	9.96e6	4144.8	8917.7	NO	bb	bb	101.762
13C-12378-PeCDD	31.527	1.231	4.348e5	2.708e5	0.829	1.606	1.550	951	872	6.72e6	4.16e6	7062.4	4771.1	NO	bb	bb	84.283
13C-123478-HxCDD	36.017	0.986	4.575e5	3.533e5	0.995	1.295	1.240	1714	1036	7.67e6	5.90e6	4475.1	5696.2	NO	bd	bd	93.458
13C-123678-HxCDD	36.139	0.990	4.929e5	3.835e5	1.157	1.285	1.240	1714	1036	7.72e6	6.07e6	4504.9	5859.4	NO	db	db	86.905
13C-1234678-HpCDD	40.262	1.103	3.870e5	3.828e5	0.840	1.011	1.050	1736	1260	5.92e6	5.62e6	3411.3	4462.2	NO	bb	bb	105.085
13C-OCDD	44.999	1.232	6.781e5	7.554e5	0.767	0.898	0.890	1440	1232	8.22e6	9.13e6	5710.3	7413.0	NO	bb	bb	214.218
13C-123789-HxCDD	36.518	0.000	4.889e5	3.830e5	1.000	1.277	1.240	1714	1036	7.91e6	6.13e6	4618.2	5918.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.438	1.033	1.177e5		1.288			2053		1.80e6		877.6			bb		9.046

Dataset: T:\Autospec\Processed Data Batch\230303IHOP.qld  
 Last Altered: Monday, March 06, 2023 11:36:30 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:37:17 Pacific Standard Time

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.285	0.865	4.825e4	6.619e4	0.802	0.729	0.770	894	1638	7.69e5	1.08e6	860.8	657.5	NO	bb	bb	9.280
1289-TCDF	27.286	1.059	4.233e4	5.922e4	0.678	0.715	0.770	894	1638	6.48e5	8.96e5	725.0	547.0	NO	db	db	9.735
13468-PECDF	27.145	0.907	4.529e5	2.964e5	1.246	1.528	1.550	639	866	7.07e6	4.64e6	11052.6	5356.5	NO	bb	bb	52.031
12389-PECDF	32.329	1.080	1.727e5	1.137e5	0.496	1.519	1.550	2187	1572	2.66e6	1.70e6	1217.2	1080.5	NO	bb	bb	49.938
123468-HXCDF	33.243	0.953	2.450e5	1.964e5	1.169	1.248	1.240	1592	1910	3.71e6	2.99e6	2333.1	1567.3	NO	bb	bb	44.113
1368-TCDD	23.571	0.892	5.082e4	6.674e4	1.015	0.761	0.770	1506	757	8.30e5	1.09e6	551.2	1438.0	NO	bb	bb	9.774
1289-TCDD	27.031	1.023	4.817e4	6.482e4	0.909	0.743	0.770	1506	757	7.39e5	9.76e5	490.7	1289.2	NO	bb	bb	10.496
12479-PECDD	28.831	0.914	4.117e5	2.743e5	2.301	1.501	1.550	2044	1419	3.99e6	2.64e6	1950.7	1862.6	NO	bb	bb	42.238
12389-PECDD	31.939	1.013	2.280e5	1.502e5	1.184	1.518	1.550	2044	1419	3.50e6	2.32e6	1711.4	1633.6	NO	bb	bb	45.288
124679-HXCDD	34.022	0.945	2.111e5	1.738e5	1.115	1.214	1.240	1845	1377	3.36e6	2.72e6	1819.4	1971.8	NO	bb	bb	42.563
1234679-HPCDD	39.236	0.975	2.063e5	2.043e5	1.137	1.010	1.050	2026	1655	3.38e6	3.38e6	1668.0	2041.4	NO	bb	bb	46.924
Total-tetrafurans			1.368e5		0.727			894		2.13e6							28.888
Total-penta1			4.529e5					639		7.07e6							52.031
Total-pentafurans			6.685e5		0.654			2187		1.03e7							156.333
Total-hexafurans			1.293e6		1.141			1592		2.04e7							237.100
Total-heptafurans			3.381e5		0.978			1849		5.38e6							98.217
Total-Furans			3.122e6		0.922			894		4.80e7							661.160
Total-tetradoxins			2.626e5		1.024			1506		3.74e6							49.711
Total-pentadoxins			8.563e5		1.502			2044		1.08e7							137.339
Total-hexadoxins			8.975e5		1.005			1845		1.45e7							196.701
Total-heptadoxins			3.982e5		1.088			2026		6.38e6							94.566
Total-Dioxins			2.716e6		1.130			1506		3.92e7							576.750
Total-TEQ			5.838e6					1506		8.72e7							1237.909
FUNCTION1 PFK			0.000e0					705807		0.00e0							
FUNCTION2 PFK			1.098e6					272509		2.65e6							0.000
FUNCTION3 PFK			8.030e5					419872		3.44e6							0.000
FUNCTION4 PFK			2.346e5					346452		6.90e6							
FUNCTION5 PFK			5.429e4					176842		2.44e6							
FUNCTION1 HXCD...			8.708e2					511		1.38e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.374e3					1181		2.70e4							0.000
FUNCTION3 OCDPE			4.232e2					570		6.10e3							0.000
FUNCTION4 NCDPE			7.938e2					683		4.57e3							0.000
FUNCTION5 DCDPE			0.000e0					526		0.00e0							



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303IHOP.qld  
 Last Altered: Monday, March 06, 2023 11:36:30 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:37:17 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDFF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
2	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
3	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
4	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
2	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
3	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
4	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
5	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303IHOP.qld  
 Last Altered: Monday, March 06, 2023 11:36:30 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:37:17 Pacific Standard Time

**ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk**

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
2	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
3	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
4	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
5	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280
7	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
8	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
9	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
10	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528
11	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
12	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
13	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
14	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
15	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113
16	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
17	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
18	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
19	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
20	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490
21	OCDF	45.25	2.326e5	2.612e5	0.778	0.89	0.89	3100.2	YES	NO	bb	bb	88.591
22	13468-PECDF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031

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TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
2	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
3	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
4	Total-tetradoxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
5	Total-tetradoxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
2	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
3	Total-pentadoxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
4	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
2	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
3	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
4	Total-hexadoxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
5	124679-HxCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924
2	Total-heptadoxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
3	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
2	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
3	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
4	Total-tetradoxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
5	Total-tetradoxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660
6	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
7	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
8	Total-pentadoxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
9	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238
10	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
11	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
12	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
13	Total-hexadoxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
14	124679-HXCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563
15	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924
16	Total-heptadoxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
17	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619
18	OCDD	45.01	3.015e5	3.475e5	0.920	0.87	0.89	2606.9	YES	NO	bb	bb	98.432

## Quantify Totals Report MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280
7	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
8	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
9	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
10	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528
11	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
12	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
13	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
14	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
15	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113
16	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
17	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
18	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
19	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
20	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490
21	OCDF	45.25	2.326e5	2.612e5	0.778	0.89	0.89	3100.2	YES	NO	bb	bb	88.591
22	13468-PECDF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031
23	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
24	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
25	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
26	Total-tetradioxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
27	Total-tetradioxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660
28	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
29	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
30	Total-pentadioxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
31	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238
32	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
33	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
34	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
35	Total-hexadioxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
36	124679-HXCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563
37	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-heptadioxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
39	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619
40	OCDD	45.01	3.015e5	3.475e5	0.920	0.87	0.89	2606.9	YES	NO	bb	bb	98.432

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.96	1.058e5					1.1	NO		bb		0.000
2	FUNCTION2 PFK	30.15	5.471e5					3.7	YES		bb		0.000
3	FUNCTION2 PFK	28.28	4.455e5					4.9	YES		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.89	2.667e5					4.7	YES		bb		0.000
2	FUNCTION3 PFK	33.03	5.362e5					3.5	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.07	4.905e4					2.0	NO		db		
2	FUNCTION4 PFK	37.96	1.071e4					1.3	NO		bd		
3	FUNCTION4 PFK	37.89	4.848e3					0.7	NO		bb		
4	FUNCTION4 PFK	42.18	1.359e4					1.2	NO		bb		
5	FUNCTION4 PFK	41.91	8.056e3					0.9	NO		db		
6	FUNCTION4 PFK	41.83	2.292e4					1.6	NO		bd		
7	FUNCTION4 PFK	41.77	1.673e4					1.5	NO		bb		
8	FUNCTION4 PFK	41.48	1.418e4					1.4	NO		bb		
9	FUNCTION4 PFK	41.32	2.104e3					0.5	NO		bb		
10	FUNCTION4 PFK	41.13	8.695e3					1.0	NO		bb		
11	FUNCTION4 PFK	40.63	8.163e3					0.8	NO		bb		
12	FUNCTION4 PFK	40.08	1.008e4					1.1	NO		db		
13	FUNCTION4 PFK	40.04	1.572e4					1.4	NO		bd		
14	FUNCTION4 PFK	39.51	7.181e3					1.0	NO		bb		
15	FUNCTION4 PFK	39.44	5.021e3					0.7	NO		bb		
16	FUNCTION4 PFK	38.96	9.511e3					1.3	NO		db		
17	FUNCTION4 PFK	38.92	2.806e4					1.5	NO		bd		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.57	1.411e3					0.9	NO		bb		
2	FUNCTION5 PFK	45.95	2.307e4					3.9	YES		bb		
3	FUNCTION5 PFK	45.69	1.018e3					0.6	NO		bb		
4	FUNCTION5 PFK	45.54	1.146e3					0.7	NO		bb		
5	FUNCTION5 PFK	45.12	9.805e3					2.3	NO		bb		
6	FUNCTION5 PFK	44.83	5.276e3					1.3	NO		bb		
7	FUNCTION5 PFK	44.58	5.554e3					1.4	NO		bb		
8	FUNCTION5 PFK	44.38	2.760e3					0.9	NO		db		
9	FUNCTION5 PFK	44.35	3.252e3					1.1	NO		bd		
10	FUNCTION5 PFK	42.99	9.959e2					0.6	NO		bb		

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.01	7.970e1					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	23.47	8.919e1					3.0	YES		db		0.000
3	FUNCTION1 HXCD...	23.40	8.065e1					2.9	NO		dd		0.000
4	FUNCTION1 HXCD...	23.32	1.305e2					3.4	YES		dd		0.000
5	FUNCTION1 HXCD...	23.22	1.146e2					2.8	NO		bd		0.000
6	FUNCTION1 HXCD...	22.41	7.936e1					4.3	YES		bb		0.000
7	FUNCTION1 HXCD...	27.40	7.698e1					2.2	NO		bb		0.000
8	FUNCTION1 HXCD...	27.14	1.376e2					3.3	YES		bb		0.000
9	FUNCTION1 HXCD...	25.79	8.222e1					1.9	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.53	2.999e2					2.9	NO		bb		0.000
2	FUNCTION2 HPCD...	31.17	3.219e2					4.5	YES		bb		0.000
3	FUNCTION2 HPCD...	29.58	8.369e1					1.2	NO		db		0.000
4	FUNCTION2 HPCD...	29.50	8.185e1					1.4	NO		bd		0.000
5	FUNCTION2 HPCD...	29.43	9.066e1					2.2	NO		bb		0.000
6	FUNCTION2 HPCD...	28.26	1.049e2					2.5	NO		db		0.000
7	FUNCTION2 HPCD...	28.22	1.658e2					2.8	NO		bd		0.000
8	FUNCTION2 HPCD...	28.15	1.360e2					3.3	YES		db		0.000
9	FUNCTION2 HPCD...	28.11	8.921e1					2.1	NO		bd		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.53	2.562e2					6.2	YES		bb		0.000
2	FUNCTION3 OCDPE	36.14	1.671e2					4.5	YES		bb		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303IHOP.qld  
Last Altered: Monday, March 06, 2023 11:36:30 Pacific Standard Time  
Printed: Monday, March 06, 2023 11:37:17 Pacific Standard Time

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.04	8.282e1					2.4	NO		bb		0.000
2	FUNCTION4 NCDPE	38.07	5.777e2					4.3	YES		bb		0.000
3	FUNCTION4 NCDPE	37.82	1.333e2					0.0	NO		bb		0.000

**ETHERS6**

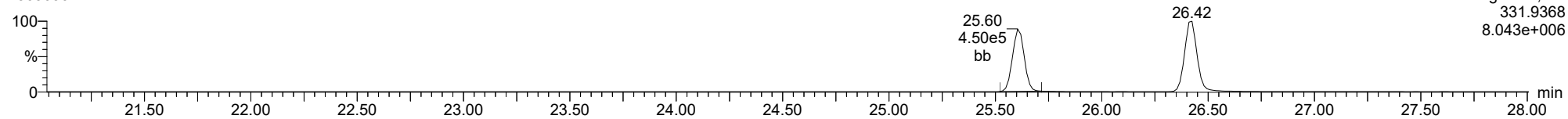
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Method:** T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
**Calibration:** T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

**ID:** CS3W1, **Name:** 23030302, **Date:** 03-Mar-2023, **Time:** 09:51:40, **Conditions:** AUTOSPEC01, **User:** pk

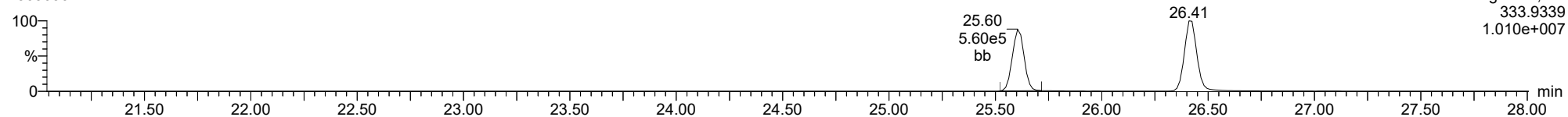
**13C-1234-TCDD**

23030302



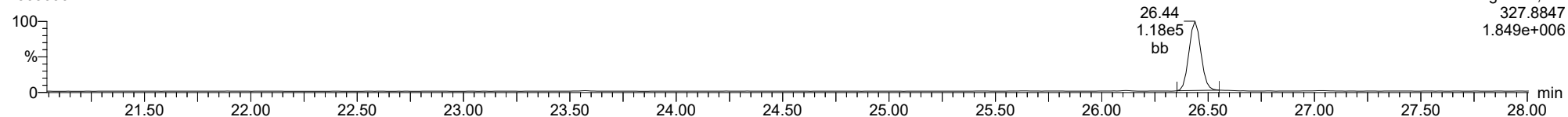
**13C-1234-TCDD**

23030302



**37CL-2378-TCDD**

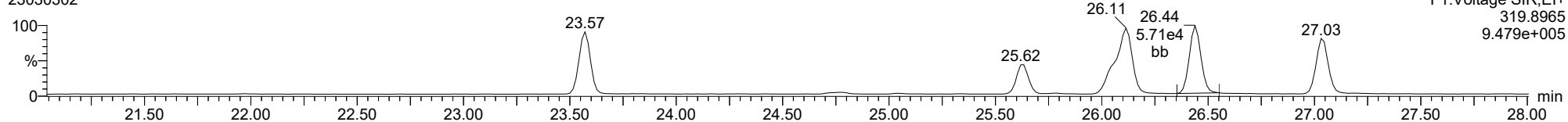
23030302



ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

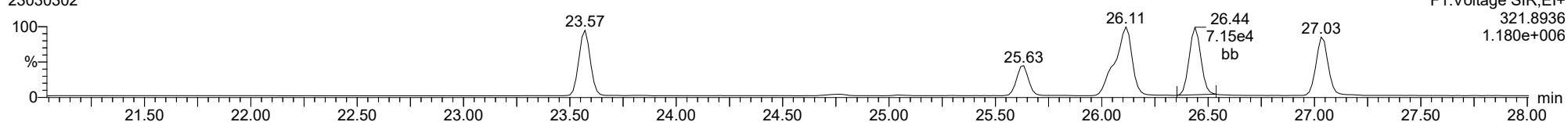
23030302



F1:Voltage SIR,EI+  
319.8965  
9.479e+005

**2378-TCDD**

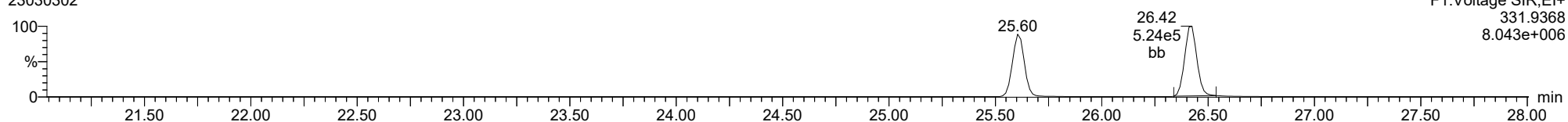
23030302



F1:Voltage SIR,EI+  
321.8936  
1.180e+006

**13C-2378-TCDD**

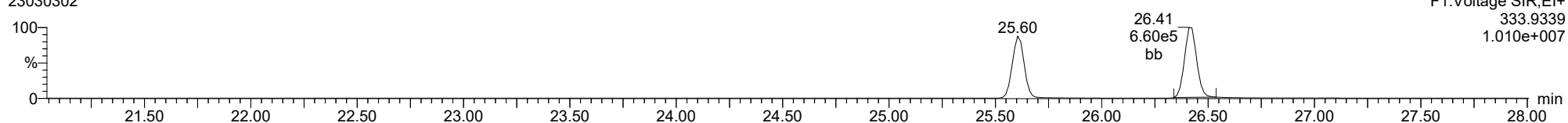
23030302



F1:Voltage SIR,EI+  
331.9368  
8.043e+006

**13C-2378-TCDD**

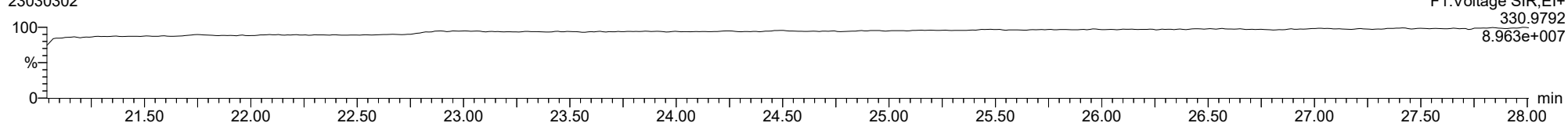
23030302



F1:Voltage SIR,EI+  
333.9339  
1.010e+007

**FUNCTION1 PFK**

23030302

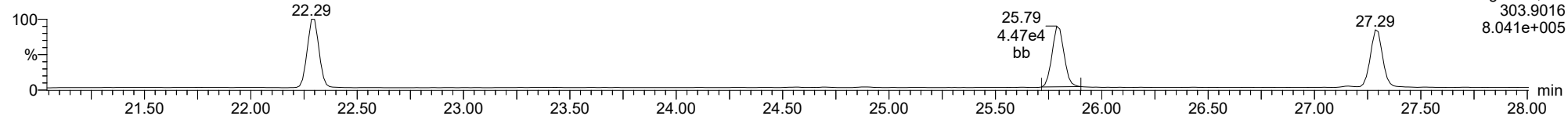


F1:Voltage SIR,EI+  
330.9792  
8.963e+007

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

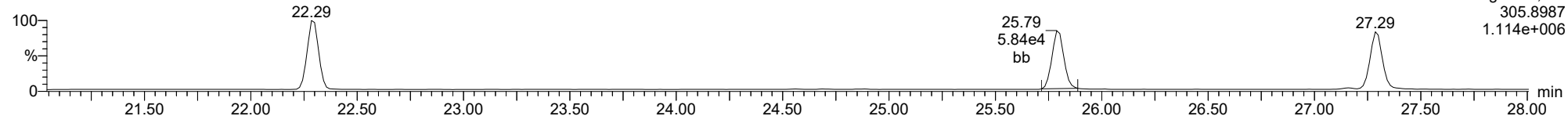
**2378-TCDF**

23030302



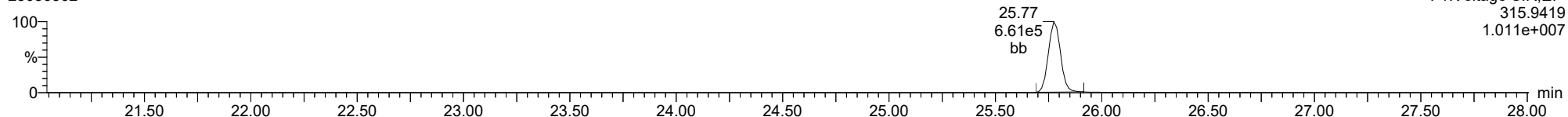
**2378-TCDF**

23030302



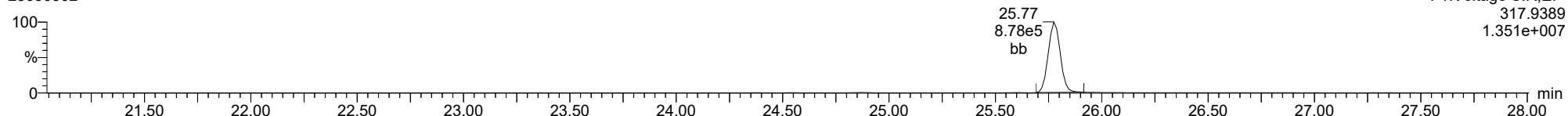
**13C-2378-TCDF**

23030302



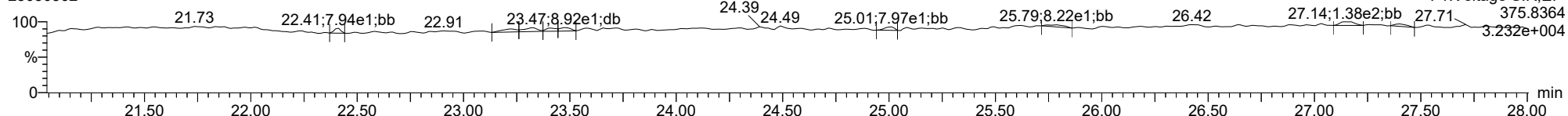
**13C-2378-TCDF**

23030302



**FUNCTION1 HXCDPE**

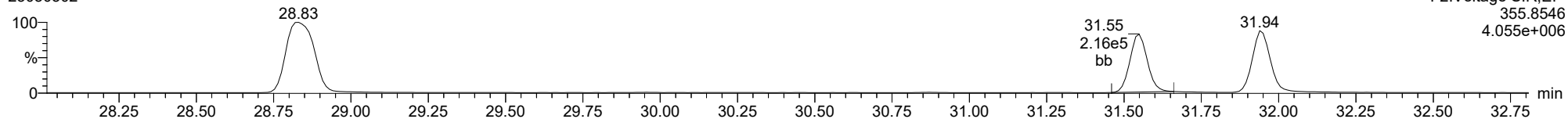
23030302



ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

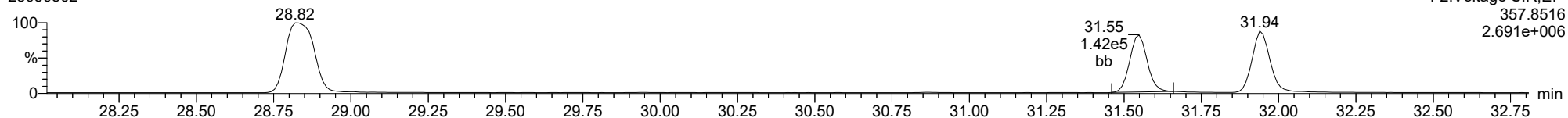
**12378-PeCDD**

23030302



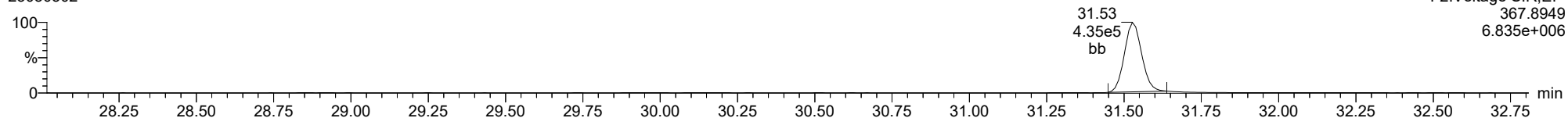
**12378-PeCDD**

23030302



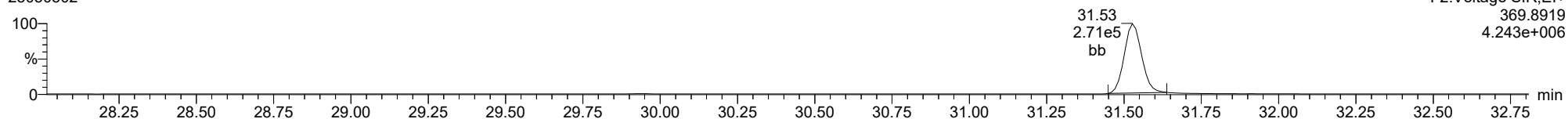
**13C-12378-PeCDD**

23030302



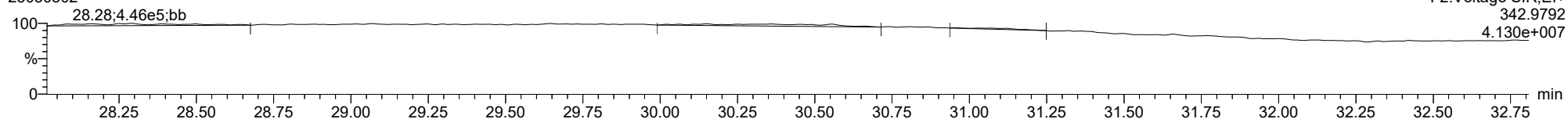
**13C-12378-PeCDD**

23030302



**FUNCTION2 PFK**

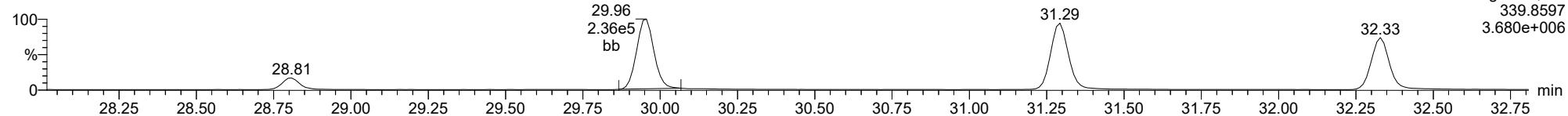
23030302



ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

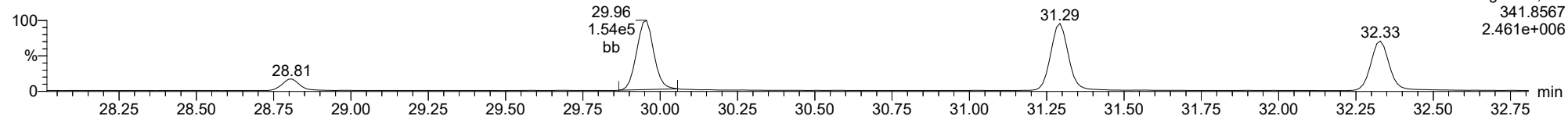
**12378-PeCDF**

23030302



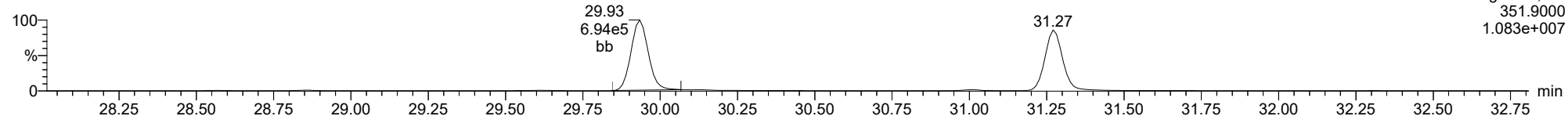
**12378-PeCDF**

23030302



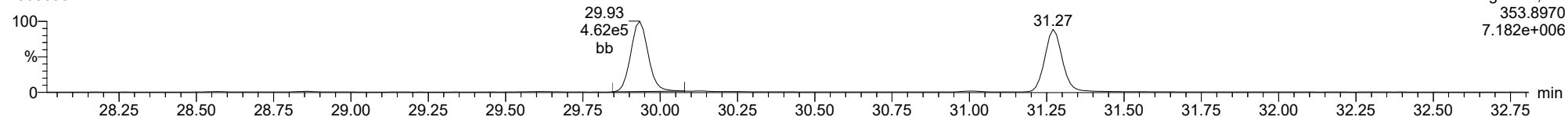
**13C-12378-PeCDF**

23030302



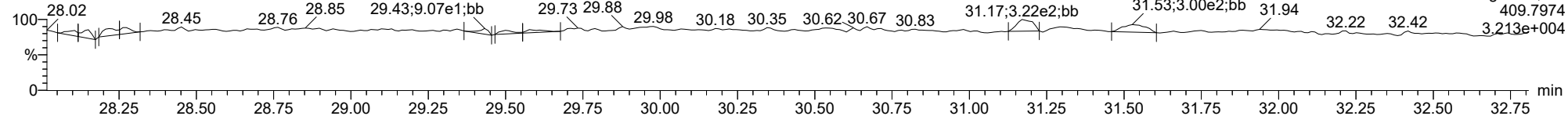
**13C-12378-PeCDF**

23030302



**FUNCTION2 HPCDPE**

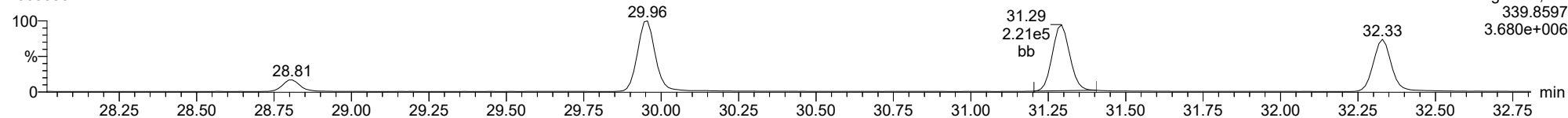
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

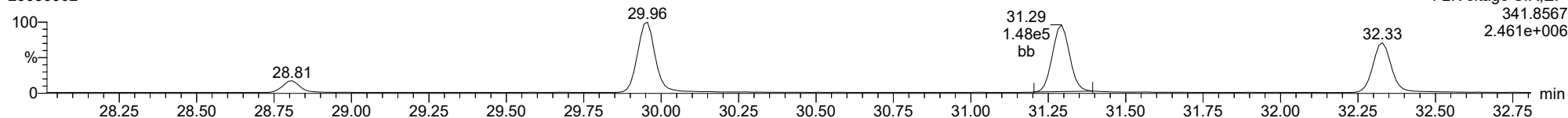
**23478-PeCDF**

23030302



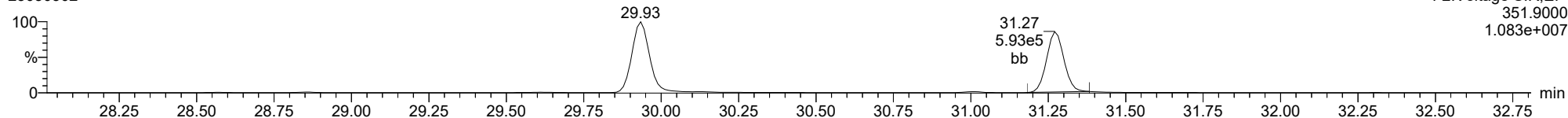
**23478-PeCDF**

23030302



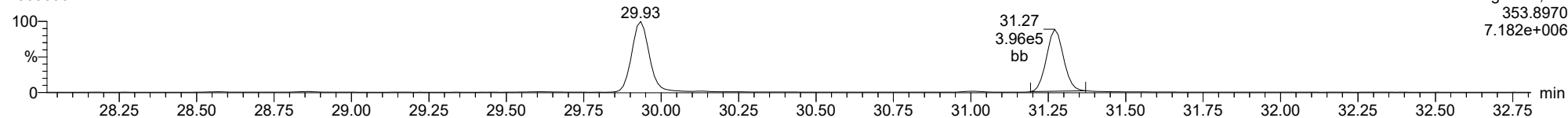
**13C-23478-PeCDF**

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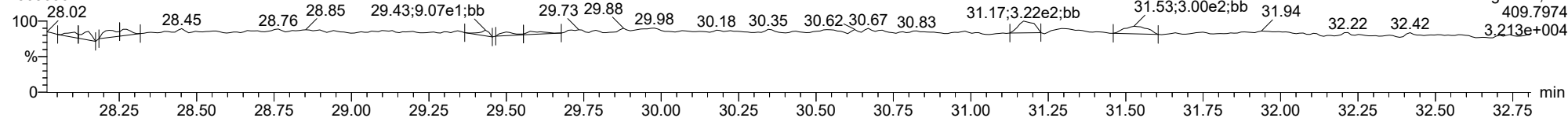
**13C-23478-PeCDF**

23030302



**FUNCTION2 HPCDPE**

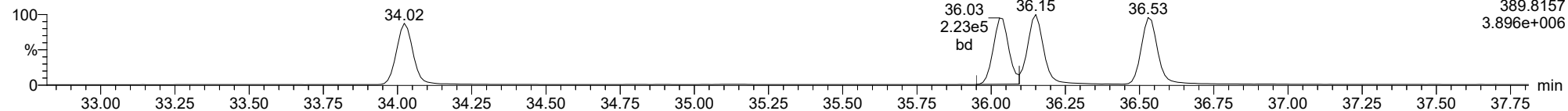
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

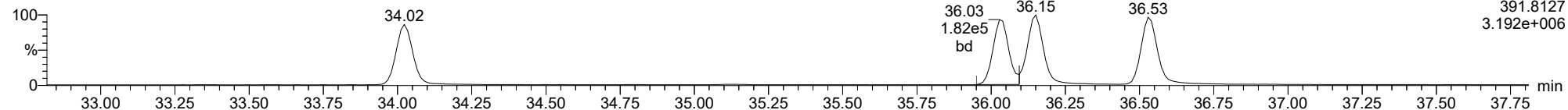
**123478-HxCDD**

23030302



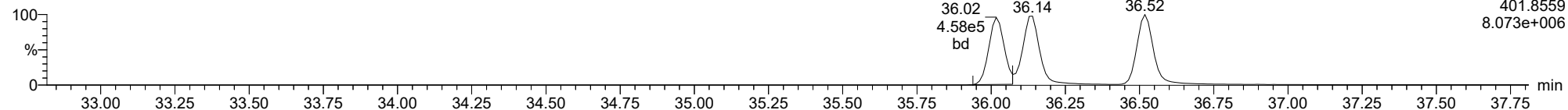
**123478-HxCDD**

23030302



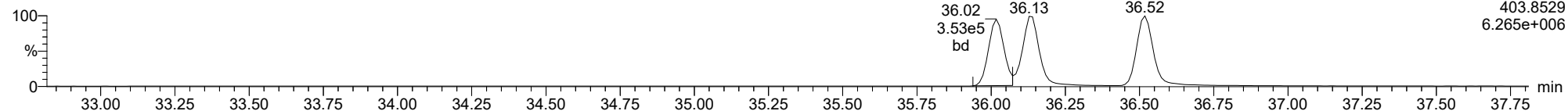
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23030302



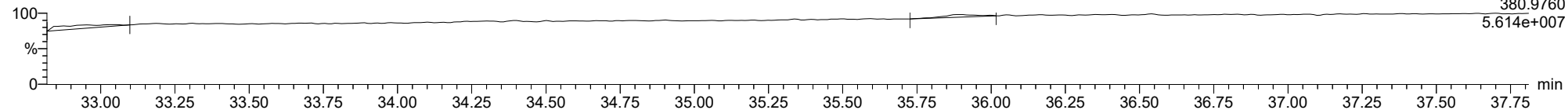
**13C-123478-HxCDD**

23030302



**FUNCTION3 PFK**

23030302

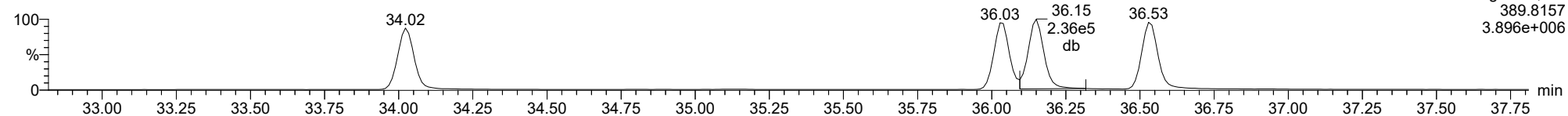




ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

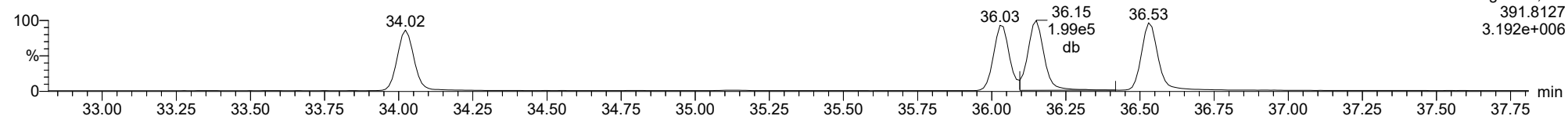
23030302



F3:Voltage SIR,EI+  
389.8157  
3.896e+006

**123678-HxCDD**

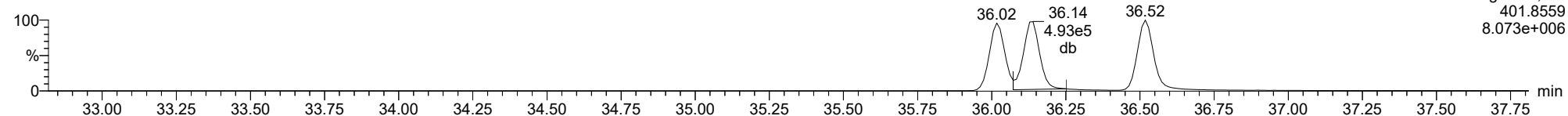
23030302



F3:Voltage SIR,EI+  
391.8127  
3.192e+006

**13C-123678-HxCDD**

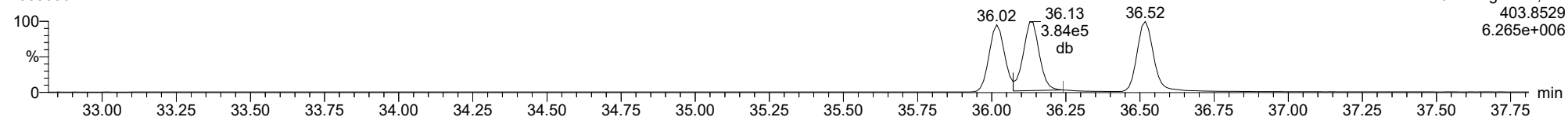
23030302



F3:Voltage SIR,EI+  
401.8559  
8.073e+006

**13C-123678-HxCDD**

23030302

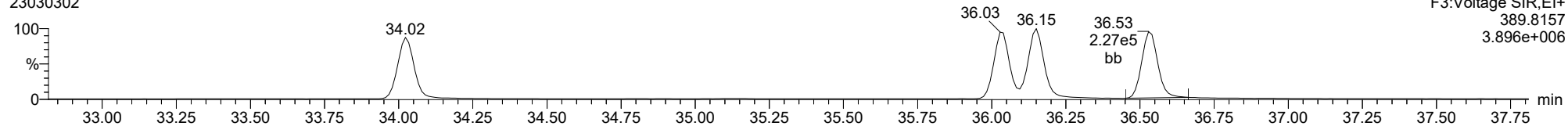


F3:Voltage SIR,EI+  
403.8529  
6.265e+006

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

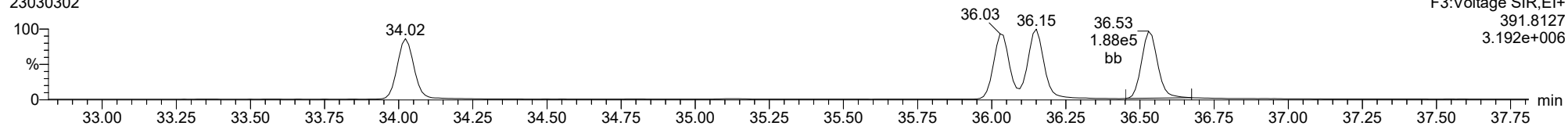
**123789-HxCDD**

23030302



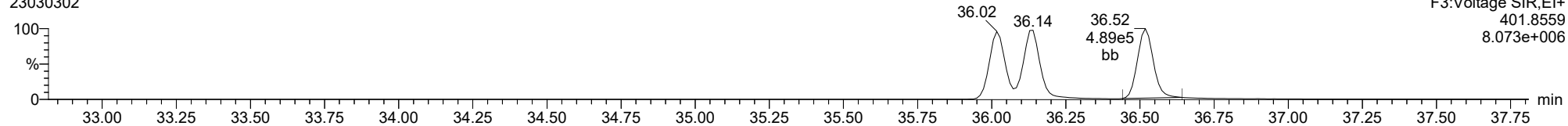
**123789-HxCDD**

23030302



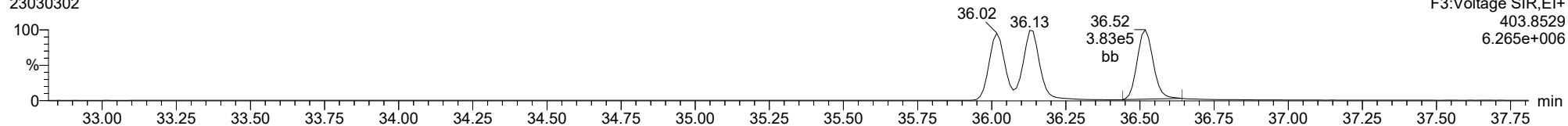
**13C-123789-HxCDD**

23030302



**13C-123789-HxCDD**

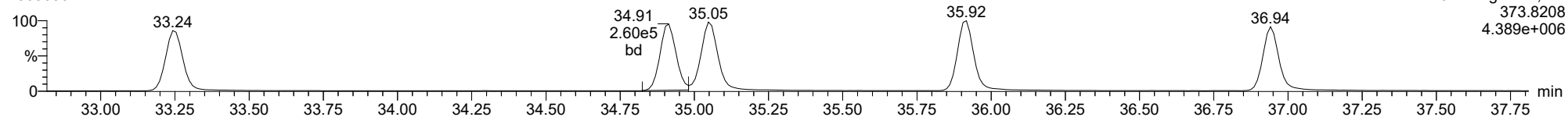
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

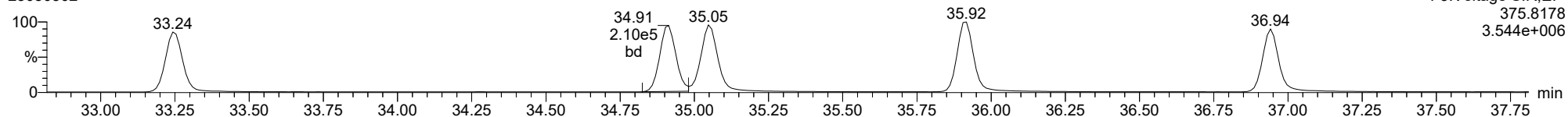
123478-HxCDF

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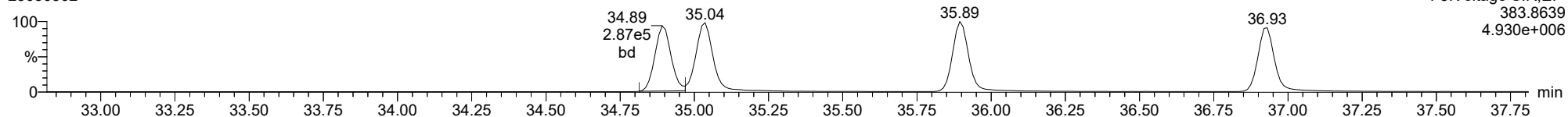
123478-HxCDF

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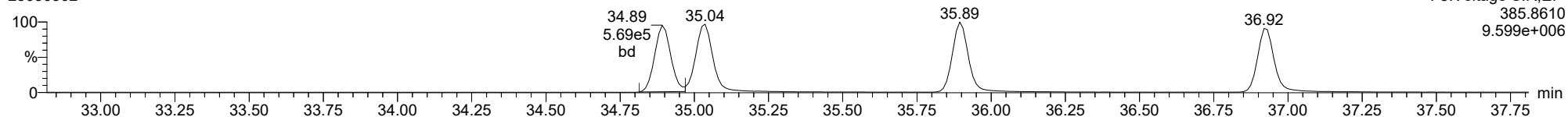
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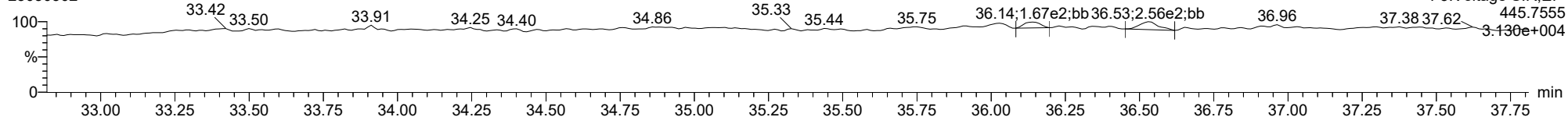
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23030302



FUNCTION3 OCDPE

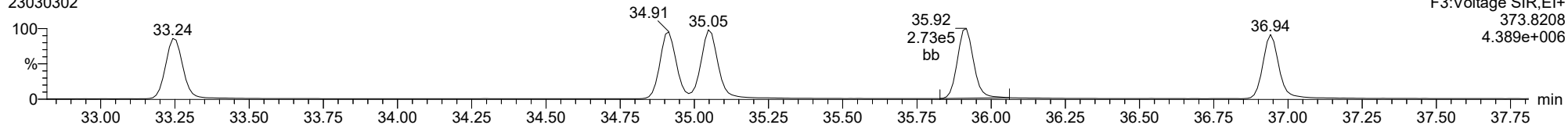
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

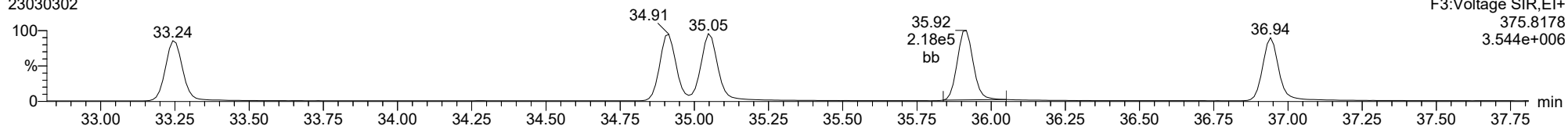
**234678-HxCDF**

23030302



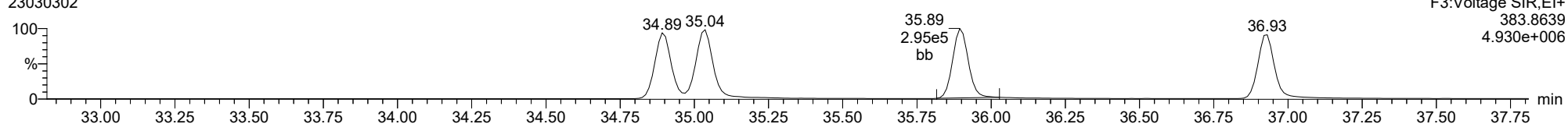
**234678-HxCDF**

23030302



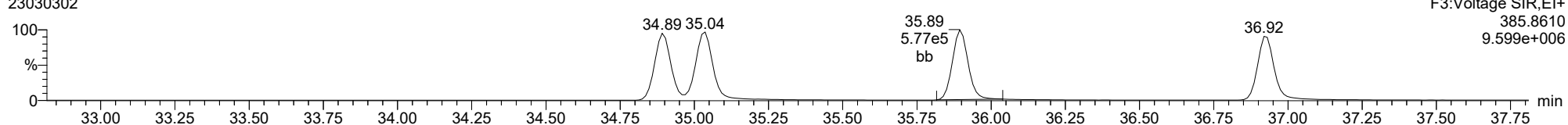
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23030302



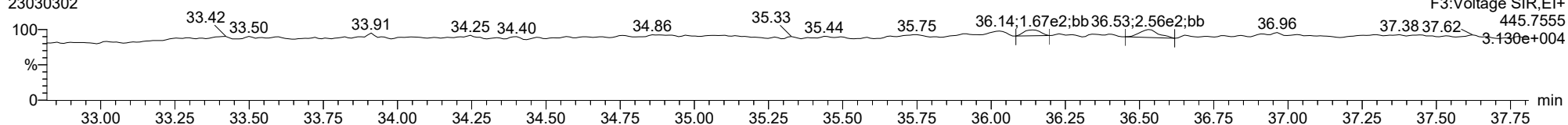
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23030302



**FUNCTION3 OCDPE**

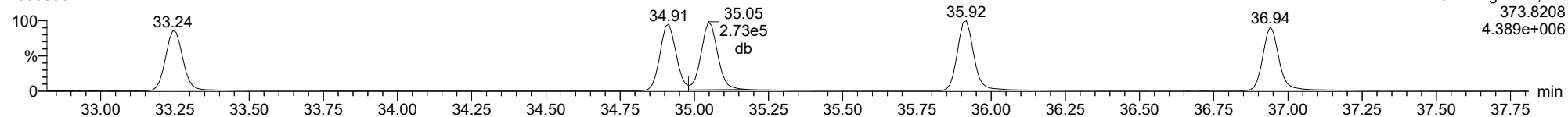
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

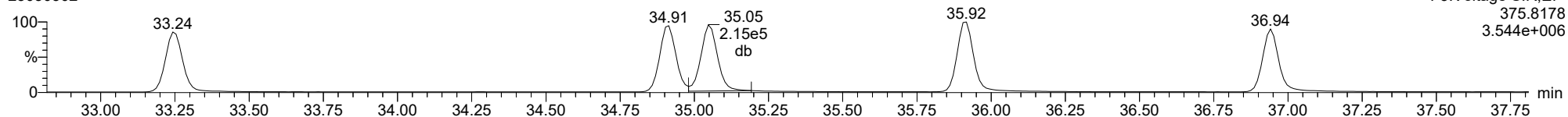
123678-HxCDF

23030302



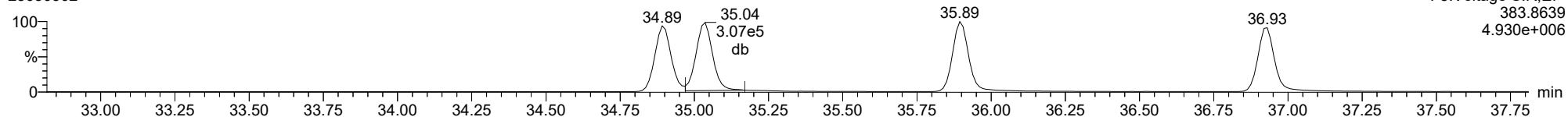
123678-HxCDF

23030302



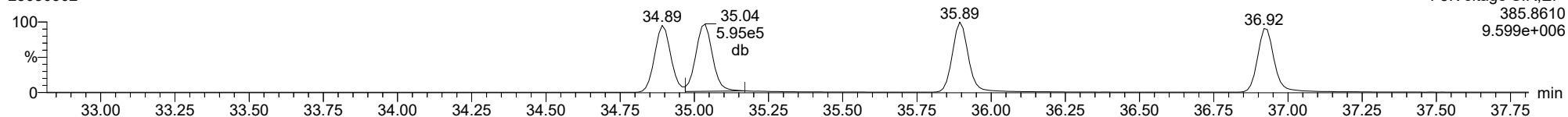
13C-123678-HxCDF

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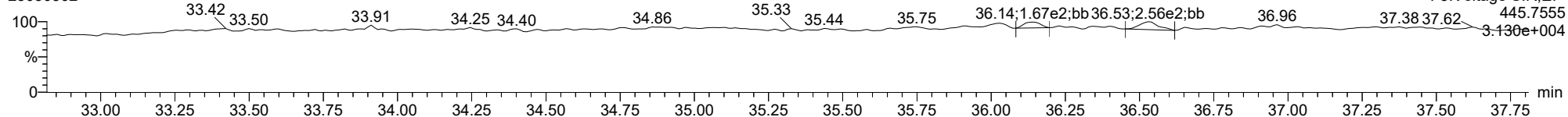
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23030302



FUNCTION3 OCDPE

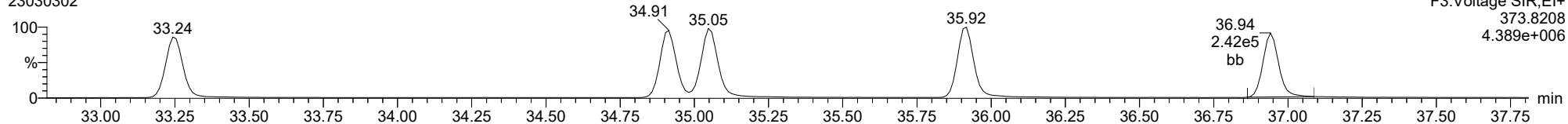
23030302



ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

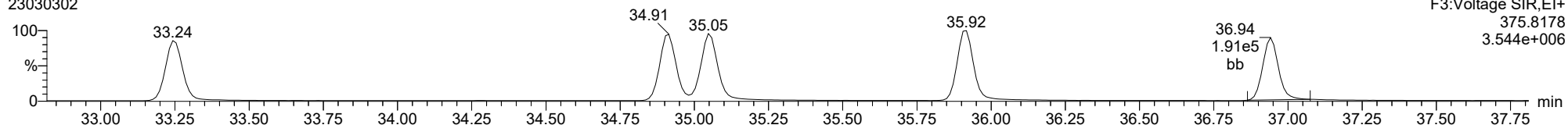
123789-HxCDF

23030302



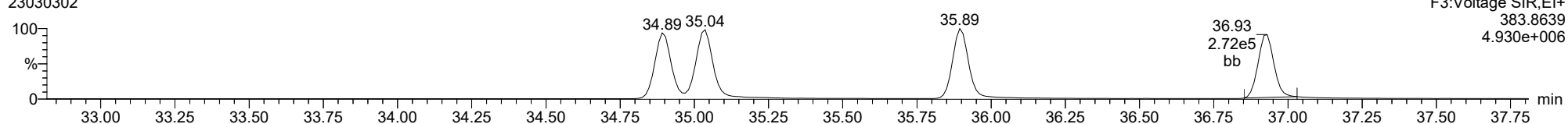
123789-HxCDF

23030302



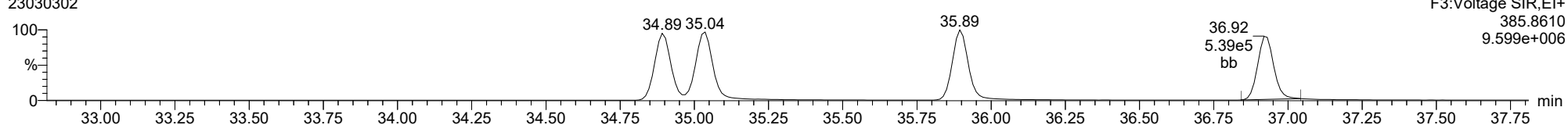
13C-123789-HxCDF

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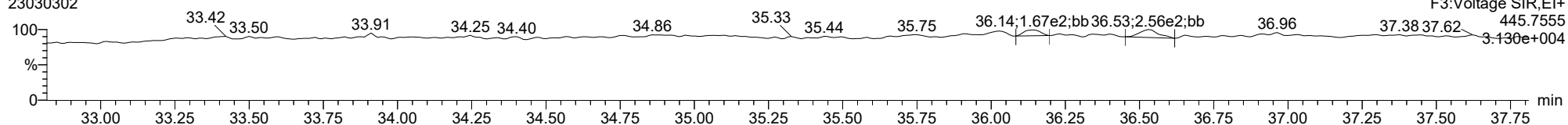
13C-123789-HxCDF

23030302



FUNCTION3 OCDPE

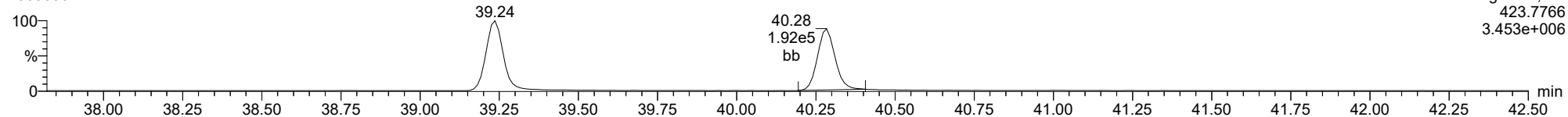
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

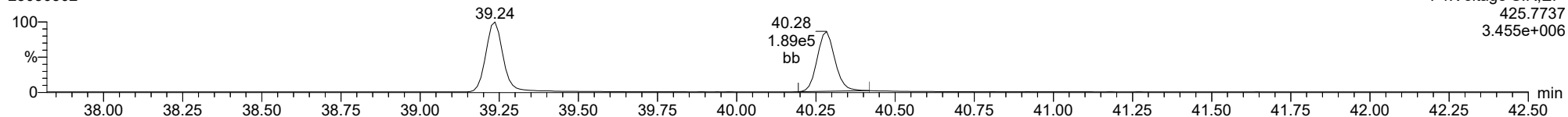
23030302



F4:Voltage SIR,EI+  
423.7766  
3.453e+006

**1234678-HpCDD**

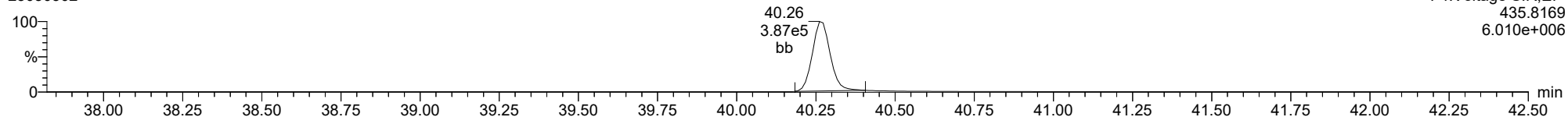
23030302



F4:Voltage SIR,EI+  
425.7737  
3.455e+006

**13C-1234678-HpCDD**

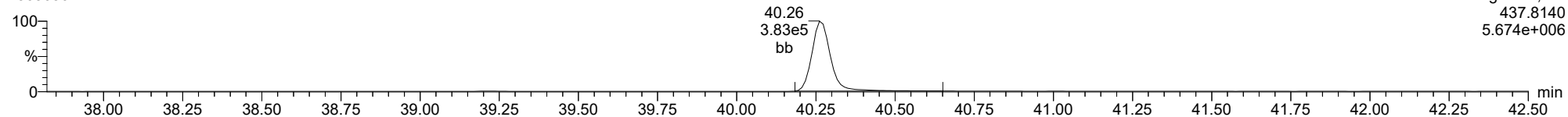
23030302



F4:Voltage SIR,EI+  
435.8169  
6.010e+006

**13C-1234678-HpCDD**

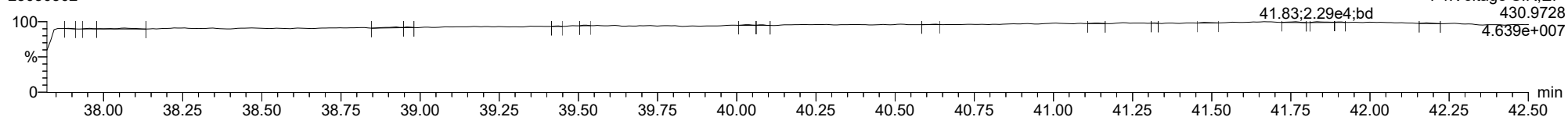
23030302



F4:Voltage SIR,EI+  
437.8140  
5.674e+006

**FUNCTION4 PFK**

23030302

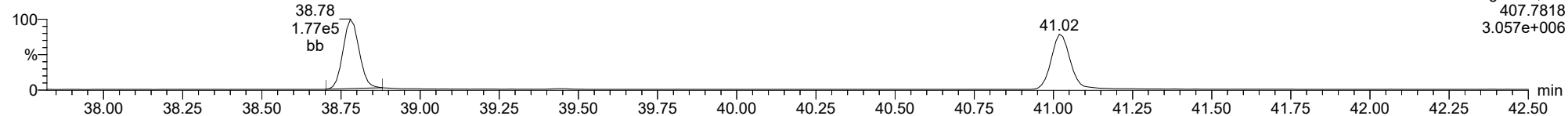


F4:Voltage SIR,EI+  
430.9728  
4.639e+007

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

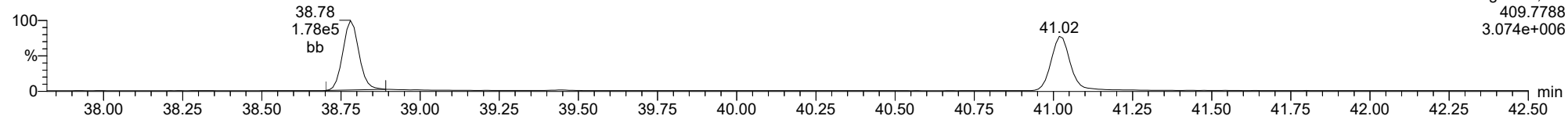
23030302



F4:Voltage SIR,EI+  
407.7818  
3.057e+006

1234678-HpCDF

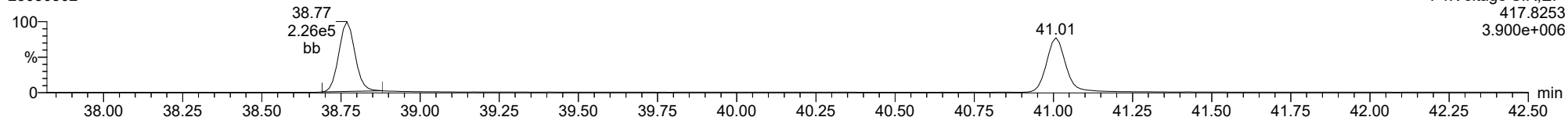
23030302



F4:Voltage SIR,EI+  
409.7788  
3.074e+006

13C-1234678-HpCDF

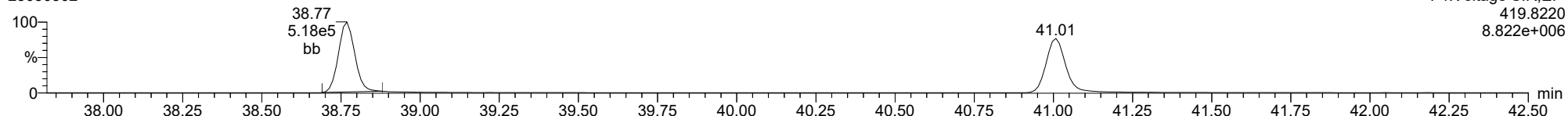
23030302



F4:Voltage SIR,EI+  
417.8253  
3.900e+006

13C-1234678-HpCDF

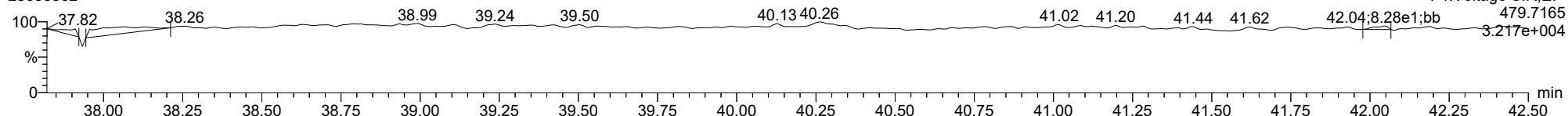
23030302



F4:Voltage SIR,EI+  
419.8220  
8.822e+006

FUNCTION4 NCDPE

23030302



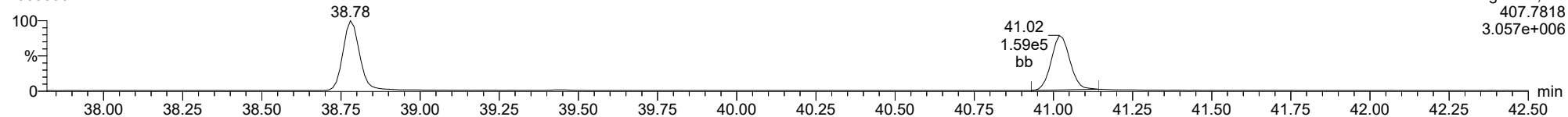
F4:Voltage SIR,EI+  
479.7165  
3.217e+004



ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

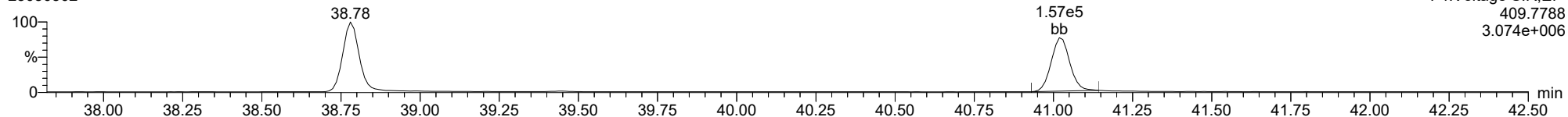
**1234789-HpCDF**

23030302



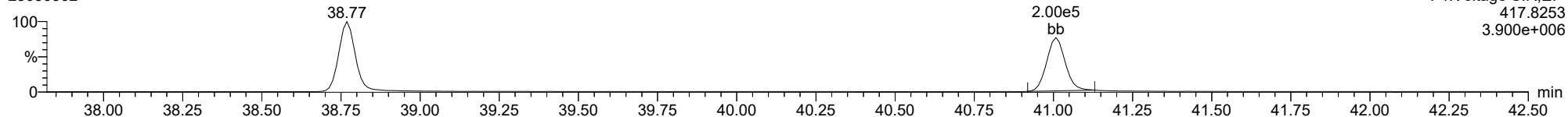
**1234789-HpCDF**

23030302



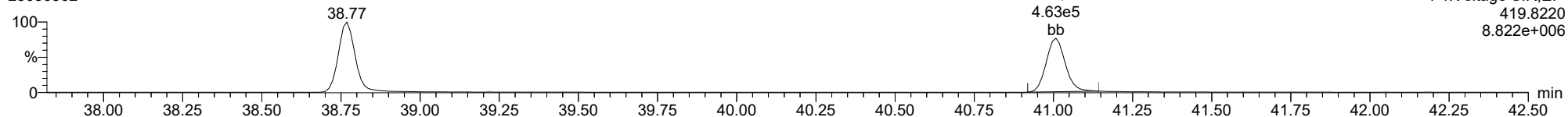
**13C-1234789-HpCDF**

23030302



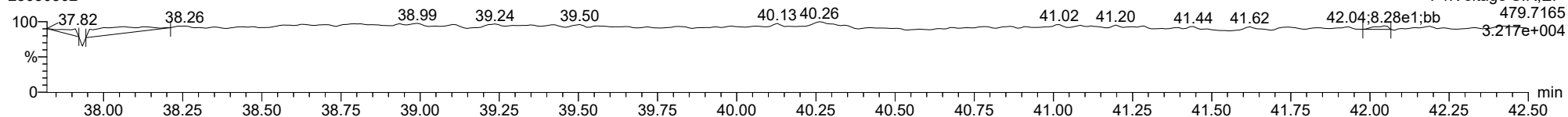
**13C-1234789-HpCDF**

23030302



**FUNCTION4 NCDPE**

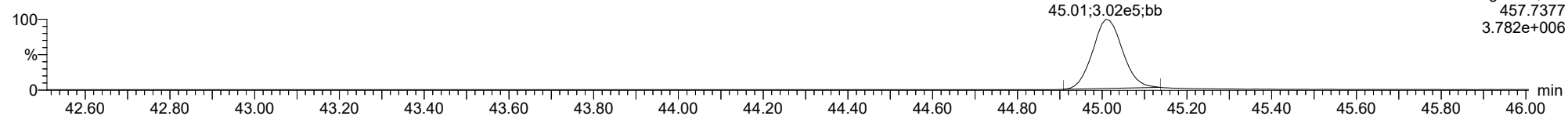
23030302



ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

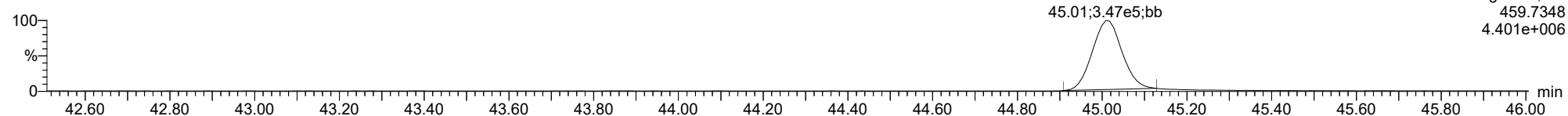
**OCDD**

23030302



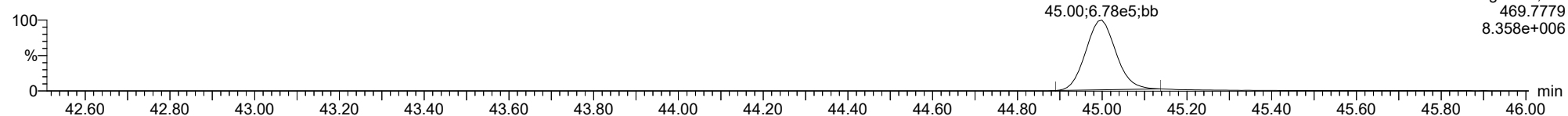
**OCDD**

23030302



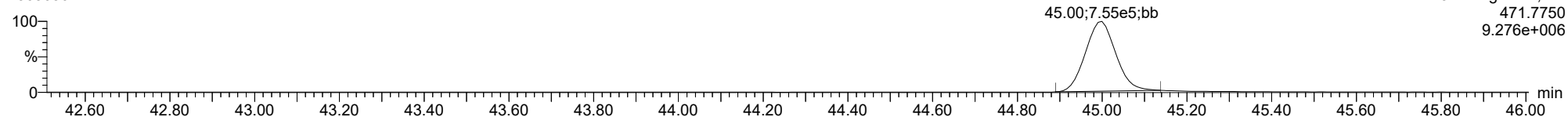
**13C-OCDD**

23030302



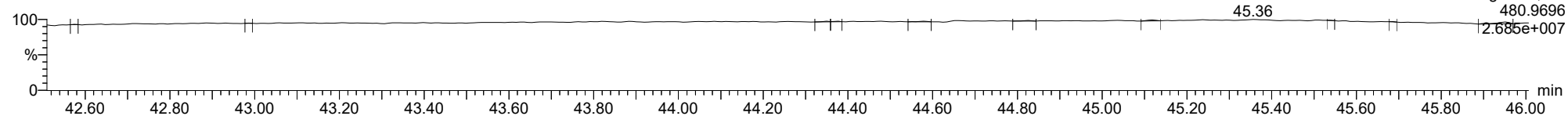
**13C-OCDD**

23030302



**FUNCTION5 PFK**

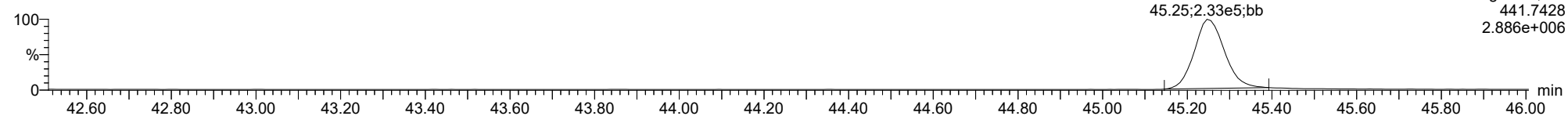
23030302



ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

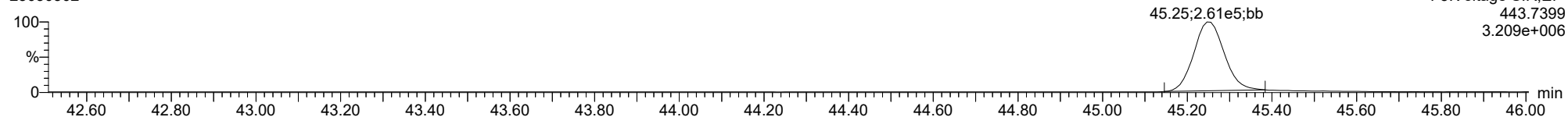
**OCDF**

23030302



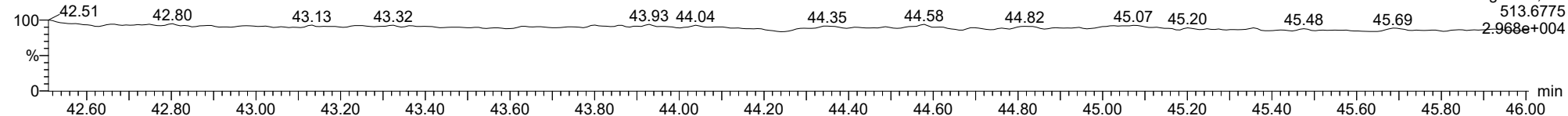
**OCDF**

23030302



**FUNCTION5 DCDPE**

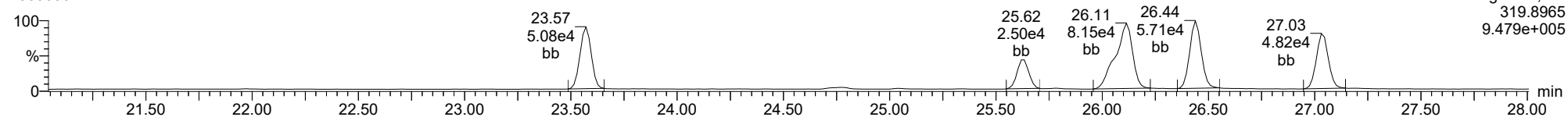
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

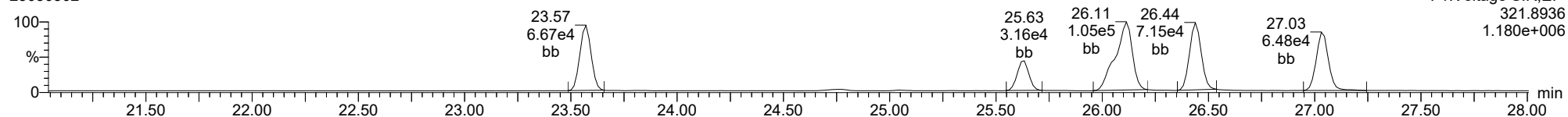
**Total-tetradoxins**

23030302



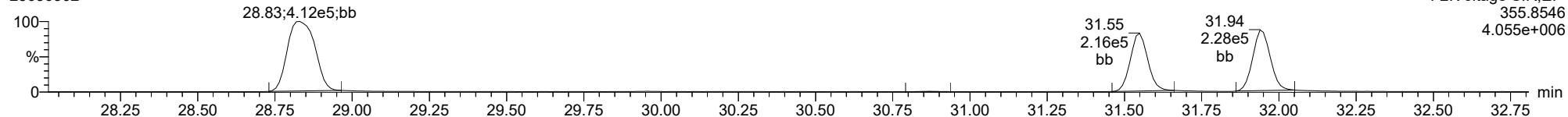
**Total-tetradoxins**

23030302



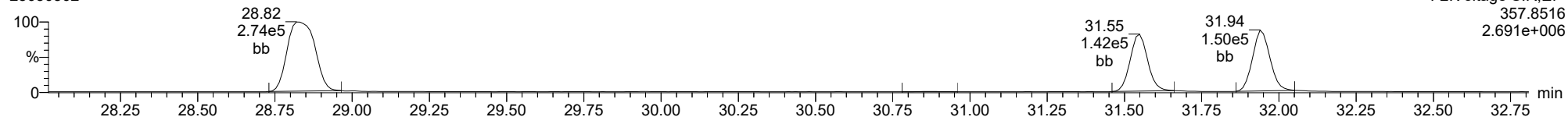
**Total-pentadoxins**

23030302



**Total-pentadoxins**

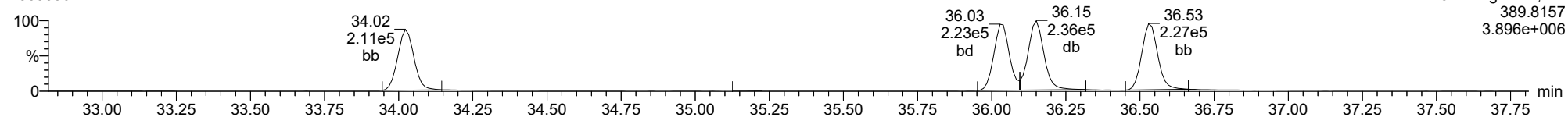
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

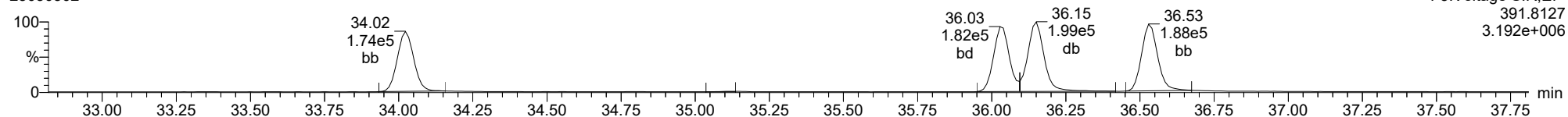
**Total-hexadioxins**

23030302



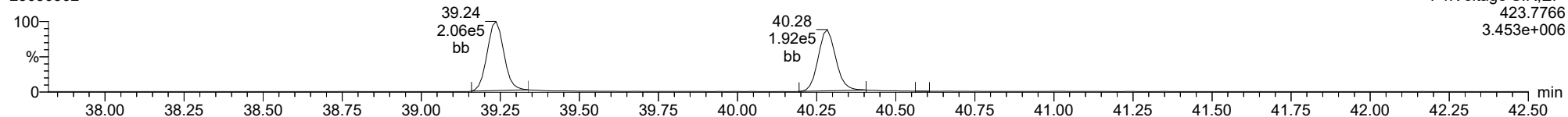
**Total-hexadioxins**

23030302



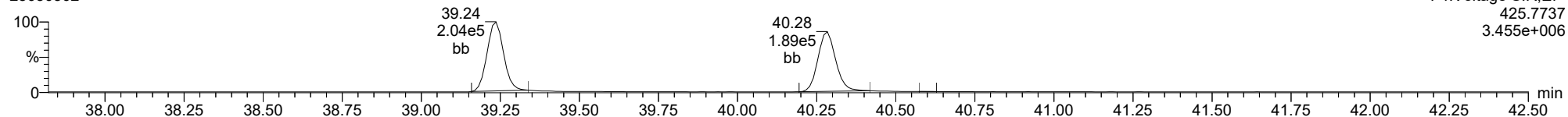
**Total-heptadioxins**

23030302



**Total-heptadioxins**

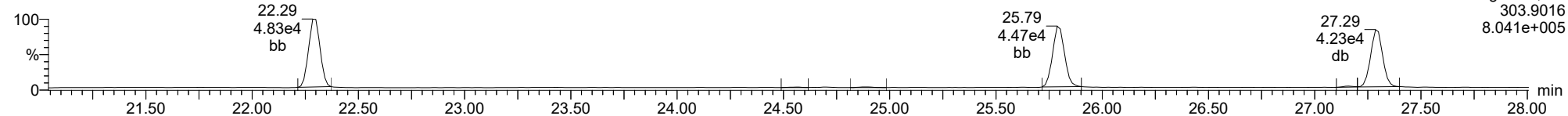
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

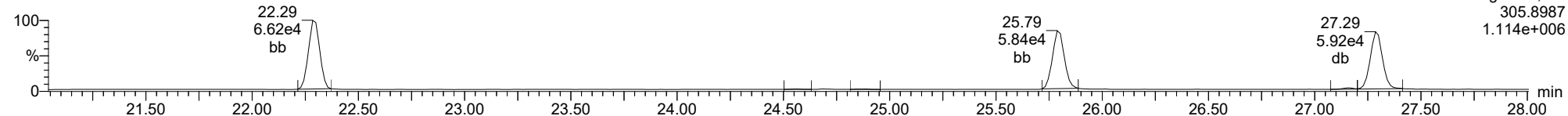
**Total-tetrafurans**

23030302



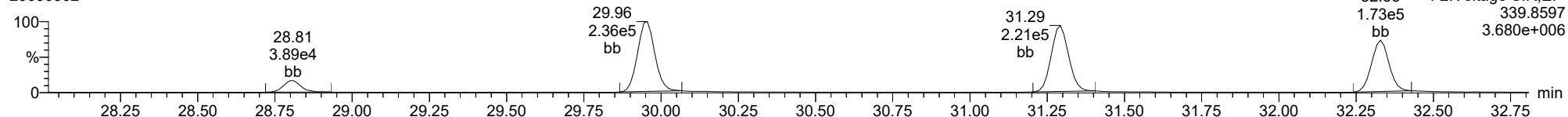
**Total-tetrafurans**

23030302



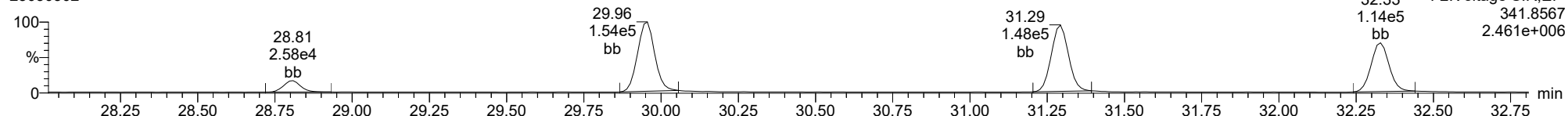
**Total-pentafurans**

23030302



**Total-pentafurans**

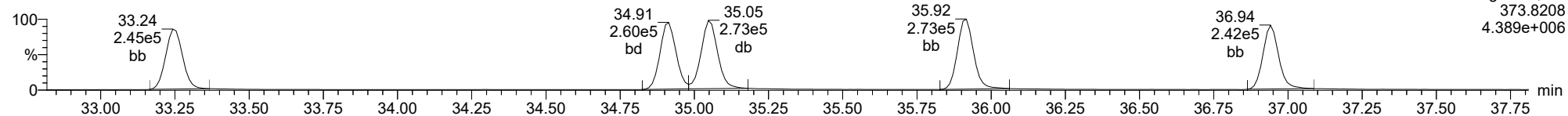
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

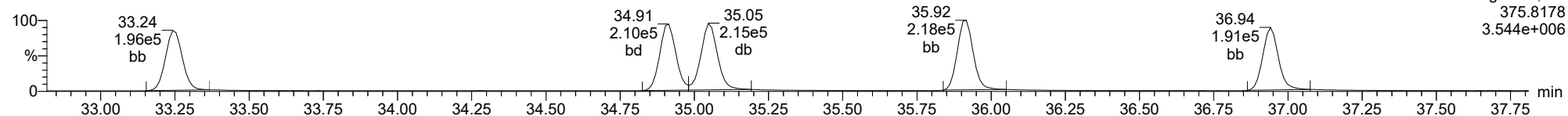
**Total-hexafurans**

23030302



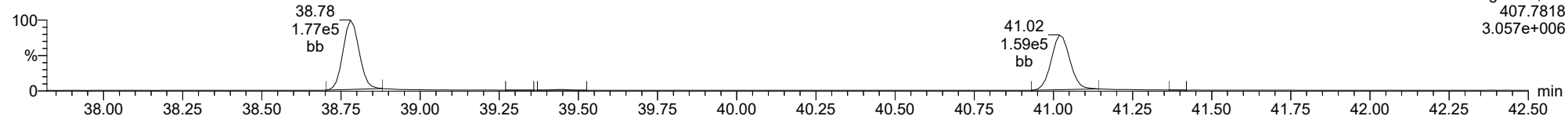
**Total-hexafurans**

23030302



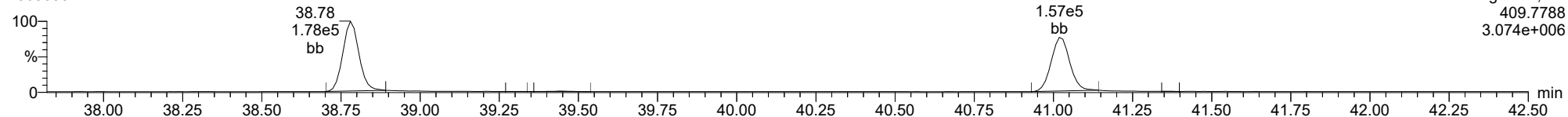
**Total-heptafurans**

23030302



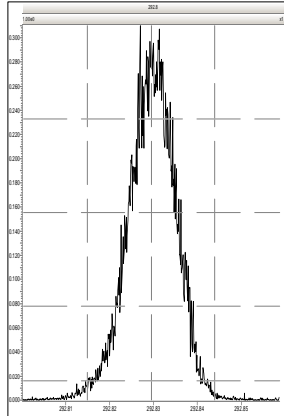
**Total-heptafurans**

23030302

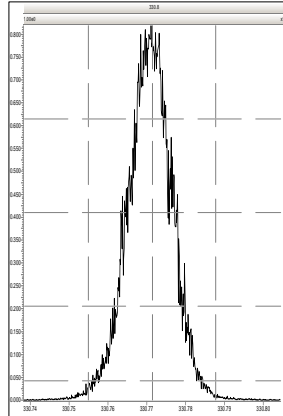


Printed: Friday, March 03, 2023 09:51:10 Pacific Standard Time

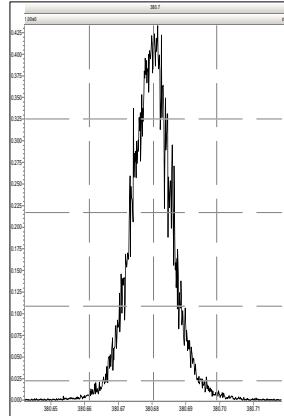
M 292.9824 R 11554



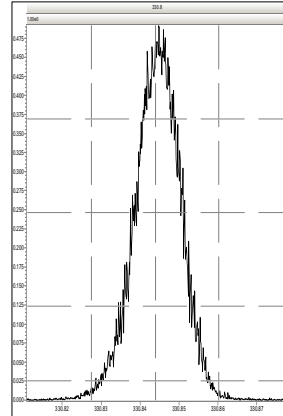
M 330.9792 R 12378



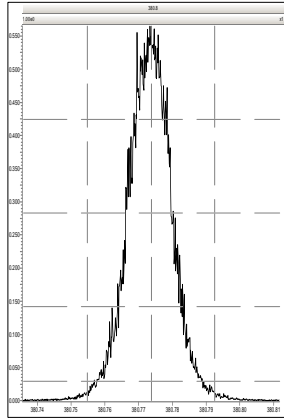
M 380.9760 R 13750



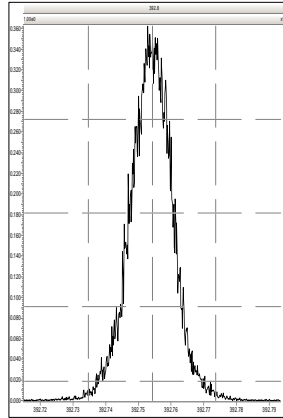
M 330.9792 R 11876



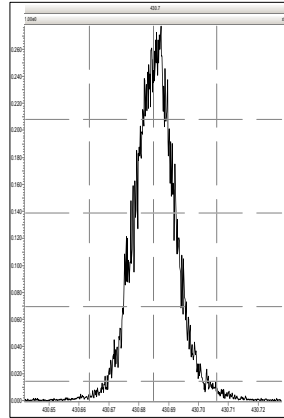
M 380.9760 R 12255



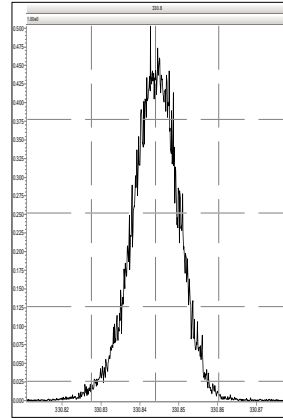
M 392.9760 R 12762



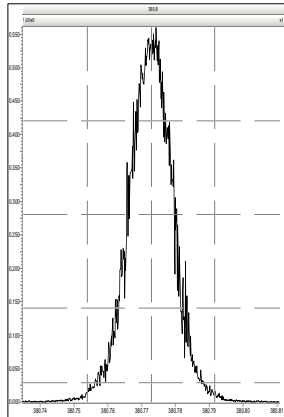
M 430.9728 R 13440



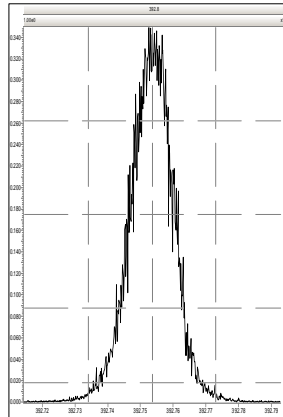
M 330.9792 R 11574



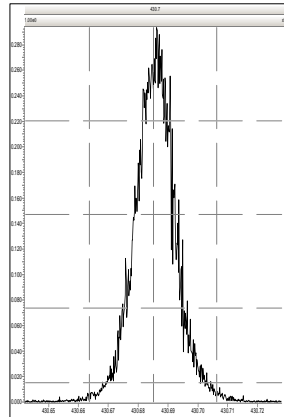
M 380.9760 R 12376



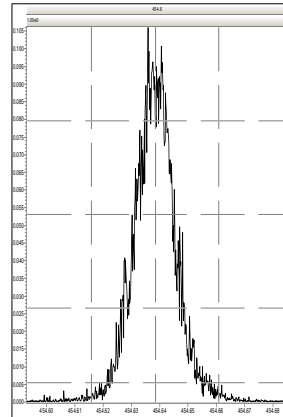
M 392.9760 R 13122



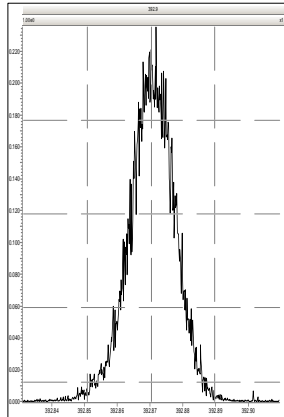
M 430.9728 R 12938



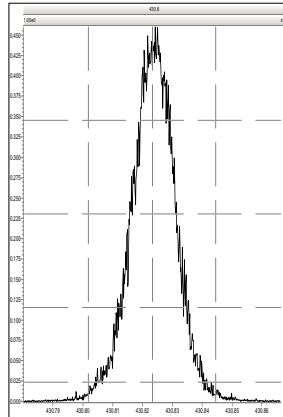
M 454.9728 R 14513



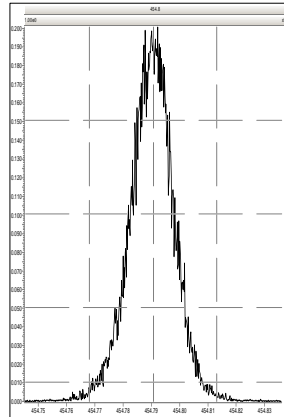
M 392.9760 R 12109



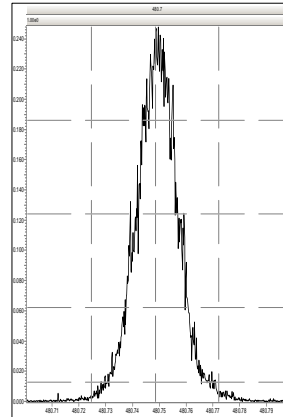
M 430.9728 R 12594



M 454.9728 R 12801



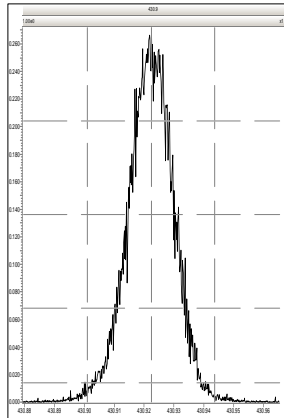
M 480.9696 R 12854



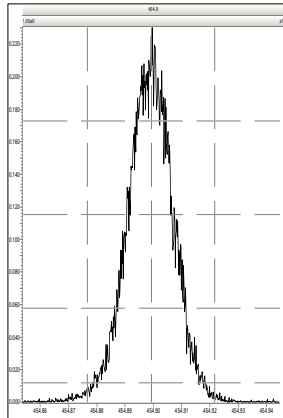


Printed: Friday, March 03, 2023 09:51:10 Pacific Standard Time

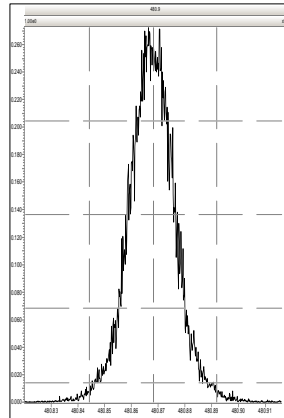
M 430.9728 R 12109



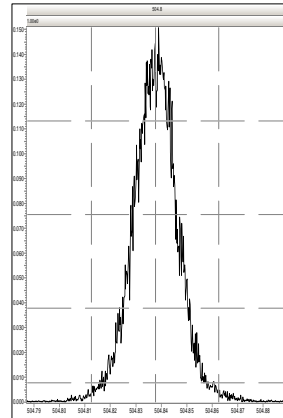
M 454.9728 R 12077



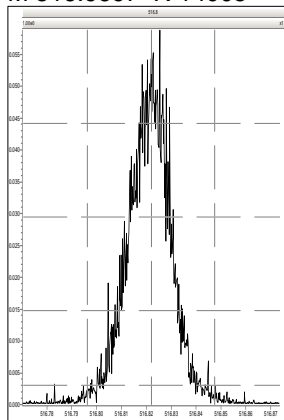
M 480.9696 R 11443



M 504.9696 R 12722



M 516.9697 R 14005

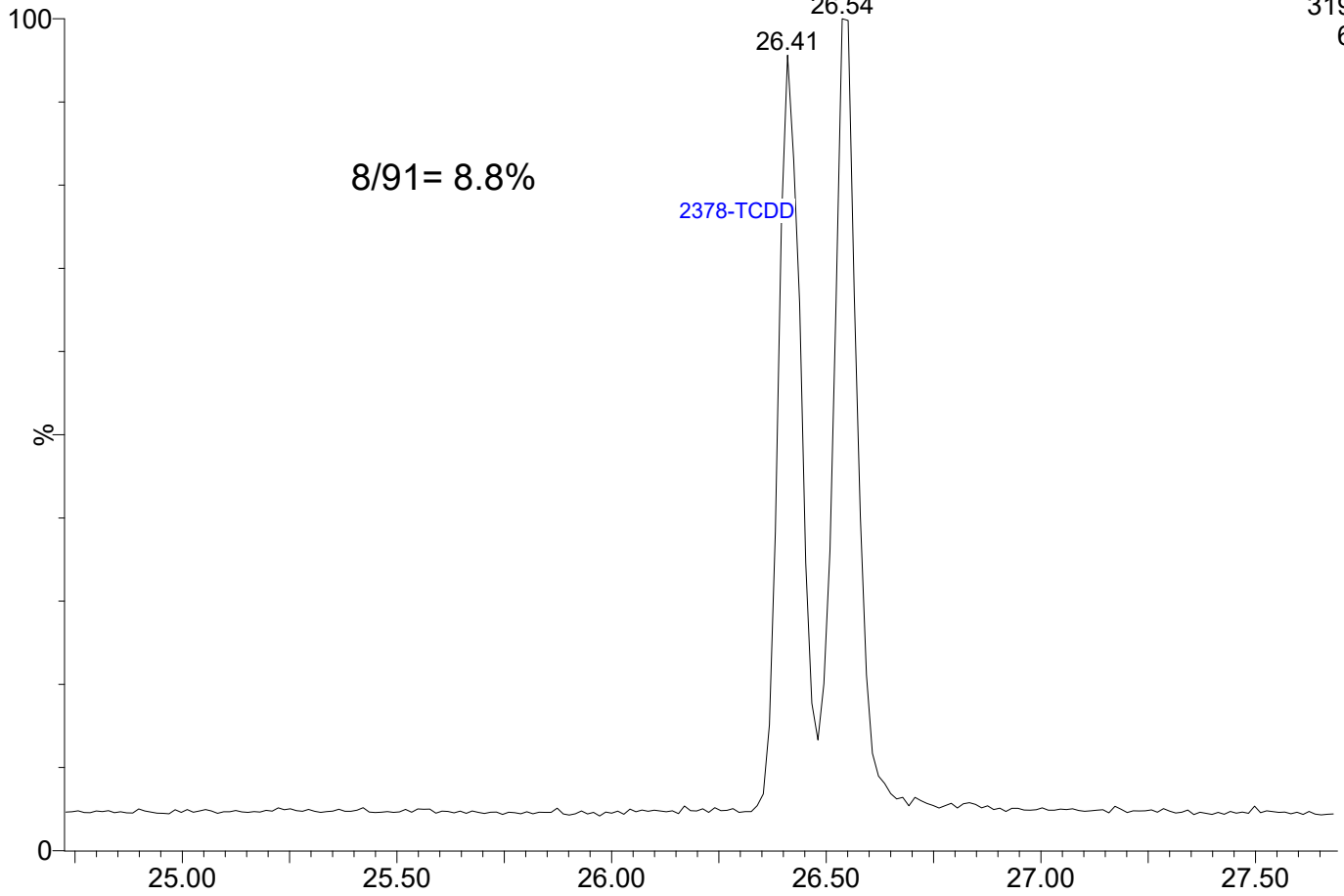


23030303

1: Voltage SIR 14 Channels EI+

319.8965

6.27e5

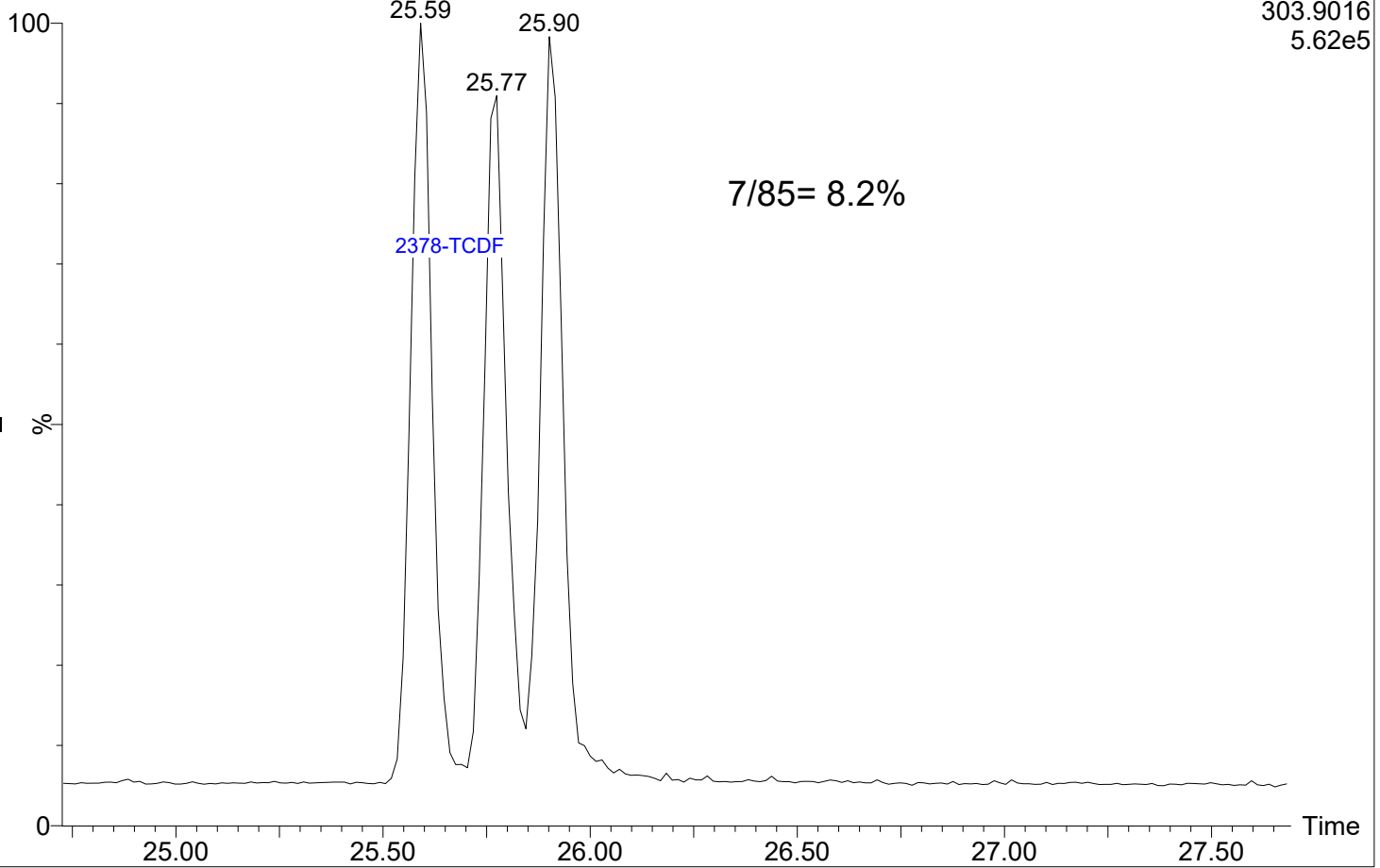


23030303

1: Voltage SIR 14 Channels EI+

303.9016

5.62e5



Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:33:58 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
 Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.702		0.770	1141	1568								
12378-PeCDF	29.922	1.000	2.331e3	1.631e3	0.679	1.429	1.550	717	1165	3.89e4	2.49e4	54.3	21.4	NO	bb	bd	0.520
23478-PeCDF	31.270	1.001	2.446e3	1.527e3	0.786	1.602	1.550	717	1165	3.60e4	2.25e4	50.1	19.4	NO	bb	bb	0.508
123478-HxCDF	34.891	1.001	2.740e3	2.578e3	1.166	1.063	1.240	675	706	4.36e4	3.63e4	64.6	51.5	NO	bd	bd	0.522
234678-HxCDF	35.894	1.001	2.363e3	1.967e3	1.140	1.201	1.240	675	706	3.52e4	3.17e4	52.2	44.9	NO	bb	bb	0.459
123678-HxCDF	35.025	1.000	2.955e3	2.593e3	1.091	1.140	1.240	675	706	3.97e4	3.71e4	58.8	52.6	NO	db	dd	0.495
123789-HxCDF	36.919	1.000	2.292e3	1.751e3	1.137	1.309	1.240	675	706	3.51e4	2.45e4	52.0	34.7	NO	bd	bb	0.523
1234678-HpCDF	38.769	1.001	1.264e3	1.356e3	1.003	0.932	1.050	1176	1150	2.17e4	2.11e4	18.4	18.3	NO	bd	bb	0.466
1234789-HpCDF	40.997	1.000	1.144e3	1.036e3	0.953	1.105	1.050	1176	1150	1.78e4	1.51e4	15.1	13.1	NO	bb	bd	0.465
OCDF	45.228	1.006	2.105e3	2.214e3	0.778	0.951	0.890	762	984	2.31e4	2.16e4	30.2	22.0	NO	bb	bb	1.044
2378-TCDD					1.149		0.770	1186	741								
12378-PeCDD	31.527	1.001	2.628e3	1.506e3	1.022	1.745	1.550	935	615	3.66e4	1.58e4	39.1	25.7	NO	bb	bb	0.540
123478-HxCDD	36.016	1.001	2.113e3	1.865e3	0.996	1.133	1.240	725	812	3.30e4	2.93e4	45.6	36.1	NO	dd	bd	0.542
123678-HxCDD	36.128	1.001	2.428e3	1.876e3	1.001	1.294	1.240	725	812	3.70e4	2.39e4	51.1	29.5	NO	db	db	0.479
123789-HxCDD	36.507	1.011	2.154e3	1.651e3	0.907	1.304	1.240	725	812	3.30e4	2.34e4	45.5	28.9	NO	bd	bb	0.513
1234678-HpCDD	40.261	1.000	1.634e3	1.397e3	1.039	1.170	1.050	985	1205	2.31e4	2.24e4	23.5	18.6	NO	MM	bb	0.531
OCDD					0.920		0.890	1090	941								
13C-2378-TCDF	25.746	1.007	5.730e5	7.592e5	1.620	0.755	0.770	2498	2006	8.42e6	1.11e7	3371.3	5556.4	NO	bb	bb	100.702
13C-12378-PeCDF	29.911	1.169	6.805e5	4.409e5	1.240	1.543	1.550	2678	2220	9.20e6	6.10e6	3433.8	2749.3	NO	bb	bd	110.727
13C-23478-PeCDF	31.248	1.222	6.001e5	3.956e5	1.118	1.517	1.550	2678	2220	8.66e6	5.74e6	3235.2	2585.6	NO	bb	bb	109.107
13C-123478-HxCDF	34.869	0.955	2.965e5	5.770e5	1.168	0.514	0.510	1558	3112	4.38e6	8.54e6	2813.2	2745.5	NO	bd	bd	98.607
13C-123678-HxCDF	35.014	0.959	3.446e5	6.820e5	1.386	0.505	0.510	1558	3112	4.56e6	9.02e6	2927.1	2898.6	NO	db	dd	97.648
13C-234678-HxCDF	35.872	0.983	2.821e5	5.460e5	1.129	0.517	0.510	1558	3112	4.13e6	8.00e6	2652.6	2572.0	NO	bb	bb	96.703
13C-123789-HxCDF	36.908	1.011	2.282e5	4.511e5	0.932	0.506	0.510	1558	3112	3.31e6	6.47e6	2122.2	2079.8	NO	bb	bb	96.146
13C-1234678-HpCDF	38.746	1.062	1.794e5	3.814e5	0.895	0.470	0.440	2435	3572	2.60e6	5.93e6	1069.0	1659.1	NO	bd	bb	82.620
13C-1234789-HpCDF	40.986	1.123	1.404e5	3.516e5	0.770	0.399	0.440	2435	3572	1.98e6	4.51e6	813.8	1262.1	NO	bb	bb	84.288
13C-1234-TCDD	25.576	0.000	3.640e5	4.524e5	1.000	0.805	0.770	1931	1352	5.55e6	6.91e6	2875.2	5114.0	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.032	4.012e5	4.998e5	1.152	0.803	0.770	1931	1352	5.75e6	7.10e6	2979.4	5249.9	NO	bb	bb	95.760
13C-12378-PeCDD	31.504	1.232	4.613e5	2.880e5	0.829	1.602	1.550	1401	1533	6.70e6	4.14e6	4781.1	2700.1	NO	bb	bb	110.725
13C-123478-HxCDD	35.994	0.986	4.133e5	3.236e5	0.995	1.277	1.240	1744	1461	6.55e6	5.10e6	3756.0	3493.2	NO	bd	bd	97.670
13C-123678-HxCDD	36.106	0.989	5.195e5	3.785e5	1.157	1.372	1.240	1744	1461	6.84e6	5.29e6	3920.0	3622.3	NO	db	db	102.381
13C-1234678-HpCDD	40.250	1.103	2.785e5	2.707e5	0.840	1.029	1.050	1497	2275	3.82e6	3.65e6	2553.8	1605.5	NO	bb	bd	86.201
13C-OCDD	44.972	1.232	5.210e5	5.429e5	0.767	0.960	0.890	2989	1436	5.87e6	6.48e6	1964.2	4513.5	NO	bd	bb	182.810
13C-123789-HxCDD	36.496	0.000	4.181e5	3.402e5	1.000	1.229	1.240	1744	1461	6.11e6	4.85e6	3503.9	3317.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.410	1.033	1.287e3		1.288			1959		1.53e4		7.8			db		0.122

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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1141	1568								
1289-TCDF					0.678		0.770	1141	1568								
13468-PECDF					1.246		1.550	669	893								
12389-PECDF					0.496		1.550	717	1165								
123468-HXCDF					1.169		1.240	675	706								
1368-TCDD					1.015		0.770	1186	741								
1289-TCDD					0.909		0.770	1186	741								
12479-PECDD					2.301		1.550	935	615								
12389-PECDD					1.184		1.550	935	615								
124679-HXCDD					1.115		1.240	725	812								
1234679-HPCDD					1.137		1.050	985	1205								
Total-tetrafurans			0.000e0		0.727			1141		0.00e0							
Total-penta1			0.000e0					669		0.00e0							
Total-pentafurans			4.777e3		0.654			717		7.49e4							1.028
Total-hexafurans			1.035e4		1.141			675		1.54e5							2.000
Total-heptafurans			2.408e3		0.978			1176		3.94e4							0.931
Total-Furans			1.971e4		0.922			1141		2.93e5							5.016
Total-tetradoxins			0.000e0		1.024			1186		0.00e0							
Total-pentadoxins			2.628e3		1.502			935		3.66e4							0.540
Total-hexadoxins			6.694e3		1.005			725		1.03e5							1.534
Total-heptadoxins			1.634e3		1.088			985		2.31e4							0.531
Total-Dioxins			1.096e4		1.130			1186		1.63e5							2.605
Total-TEQ			3.067e4					1186		4.55e5							7.621
FUNCTION1 PFK			3.116e6					620464		1.62e6							
FUNCTION2 PFK			1.698e6					301200		2.24e6							0.000
FUNCTION3 PFK			5.380e7					450736		2.93e7							0.000
FUNCTION4 PFK			1.391e7					291095		1.60e7							
FUNCTION5 PFK			7.208e4					238350		2.59e6							
FUNCTION1 HXCD...			4.809e2					559		5.84e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.084e2					933		1.50e4							0.000
FUNCTION3 OCDPE			0.000e0					494		0.00e0							
FUNCTION4 NCDPE			6.931e2					845		1.26e4							0.000
FUNCTION5 DCDPE			7.511e2					821		1.86e4							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

Calibration: T:\Autospec\Curves\230303\CIH.cdb 06 Mar 2023 10:57:27

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**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
2	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
2	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
3	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
4	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
2	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.68	7.033e1	1.021e2	0.922	0.69	0.77	1.5	NO	NO	bb	bb	0.014
2	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
3	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
4	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
5	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522
6	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
7	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520
8	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
9	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465
10	OCDF	45.23	2.105e3	2.214e3	0.778	0.95	0.89	30.2	YES	NO	bb	bb	1.044

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
2	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
3	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540
2	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
3	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
4	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542
5	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.68	7.033e1	1.021e2	0.922	0.69	0.77	1.5	NO	NO	bb	bb	0.014
2	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
3	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
4	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
5	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522
6	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
7	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520
8	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
9	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465
10	OCDF	45.23	2.105e3	2.214e3	0.778	0.95	0.89	30.2	YES	NO	bb	bb	1.044
11	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540
12	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
13	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
14	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542
15	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.18	3.116e6					2.6	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.19	1.560e6					3.1	YES		bb		0.000
2	FUNCTION2 PFK	28.13	1.376e5					4.3	YES		bb		0.000

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.12	2.560e6					15.7	YES		db		0.000
2	FUNCTION3 PFK	36.37	7.058e6					24.4	YES		dd		0.000
3	FUNCTION3 PFK	36.11	4.418e7					24.8	YES		bd		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.43	1.404e5					1.6	NO		bb		
2	FUNCTION4 PFK	37.89	1.377e7					53.2	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.15	7.152e3					1.1	NO		bb		
2	FUNCTION5 PFK	45.07	1.178e3					0.5	NO		bb		
3	FUNCTION5 PFK	44.98	1.177e3					0.5	NO		bb		
4	FUNCTION5 PFK	44.19	7.772e3					0.8	NO		bb		
5	FUNCTION5 PFK	43.72	7.921e3					1.3	NO		bb		
6	FUNCTION5 PFK	43.60	4.474e3					0.7	NO		bb		
7	FUNCTION5 PFK	43.17	6.636e3					1.2	NO		bb		
8	FUNCTION5 PFK	43.01	5.001e3					0.7	NO		bb		
9	FUNCTION5 PFK	42.76	1.253e4					1.4	NO		bb		
10	FUNCTION5 PFK	45.91	8.220e3					0.4	NO		bb		
11	FUNCTION5 PFK	45.75	6.523e3					1.4	NO		bb		
12	FUNCTION5 PFK	45.25	3.501e3					0.7	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.60	9.542e1					2.4	NO		bb		0.000
2	FUNCTION1 HXCD...	26.42	7.837e1					1.9	NO		bb		0.000
3	FUNCTION1 HXCD...	25.58	1.709e2					3.5	YES		bb		0.000
4	FUNCTION1 HXCD...	23.40	1.362e2					2.7	NO		bb		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.36	1.308e2					1.8	NO		bb		0.000
2	FUNCTION2 HPCD...	31.75	8.377e1					1.7	NO		bb		0.000
3	FUNCTION2 HPCD...	31.30	1.170e2					2.2	NO		db		0.000
4	FUNCTION2 HPCD...	31.24	1.138e2					2.6	NO		bd		0.000
5	FUNCTION2 HPCD...	30.92	1.786e2					3.2	YES		bb		0.000
6	FUNCTION2 HPCD...	30.04	8.034e1					1.7	NO		bb		0.000
7	FUNCTION2 HPCD...	29.47	1.041e2					2.9	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.04	9.826e1					2.2	NO		bb		0.000
2	FUNCTION4 NCDPE	41.83	1.085e2					2.1	NO		bb		0.000
3	FUNCTION4 NCDPE	41.67	8.318e1					2.8	NO		db		0.000
4	FUNCTION4 NCDPE	41.58	1.047e2					2.5	NO		bd		0.000
5	FUNCTION4 NCDPE	41.32	1.741e2					2.4	NO		bb		0.000
6	FUNCTION4 NCDPE	41.15	1.244e2					2.8	NO		bb		0.000

**ETHERS6**

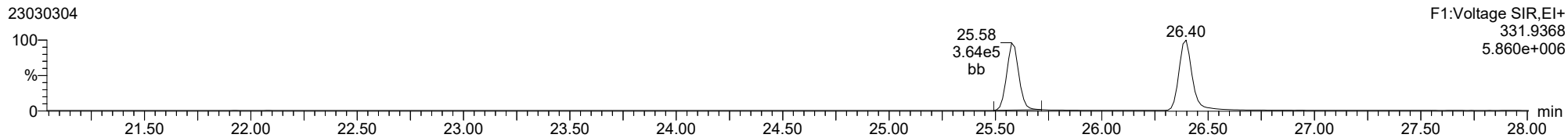
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.53	7.557e1					1.5	NO		bb		0.000
2	FUNCTION5 DCDPE	43.39	1.767e2					2.9	NO		bb		0.000
3	FUNCTION5 DCDPE	43.31	8.303e1					2.9	NO		db		0.000
4	FUNCTION5 DCDPE	43.27	1.217e2					4.5	YES		bd		0.000
5	FUNCTION5 DCDPE	43.04	1.550e2					3.9	YES		bb		0.000
6	FUNCTION5 DCDPE	42.73	1.390e2					7.0	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
Calibration: T:\Autospec\Curves\230303\CIH.cdb 06 Mar 2023 10:57:27

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

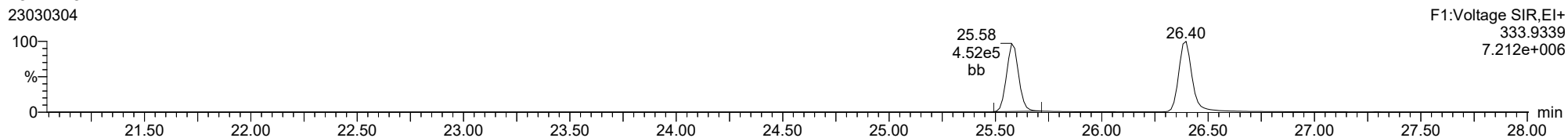
13C-1234-TCDD

23030304



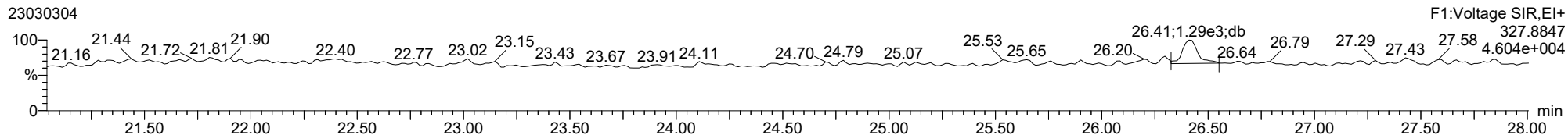
13C-1234-TCDD

23030304



37CL-2378-TCDD

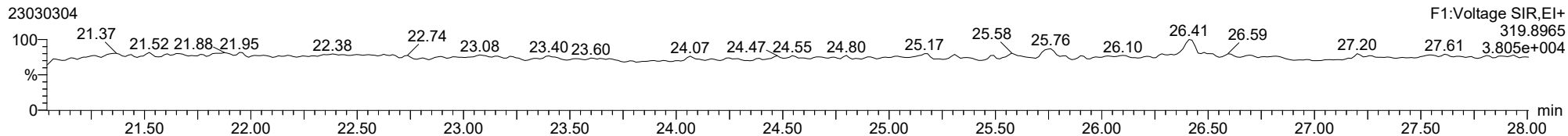
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

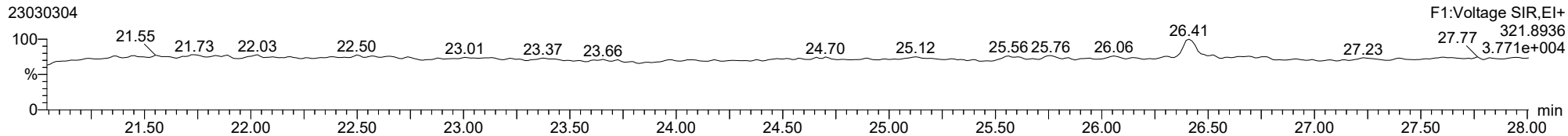
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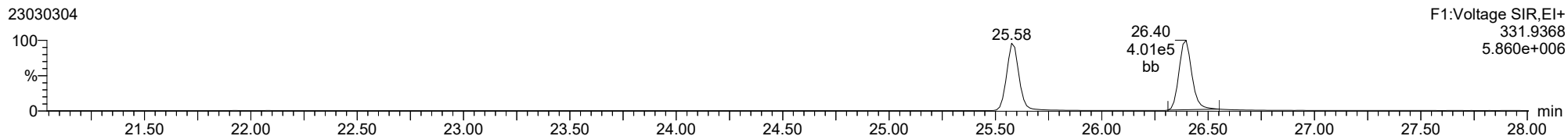
**2378-TCDD**

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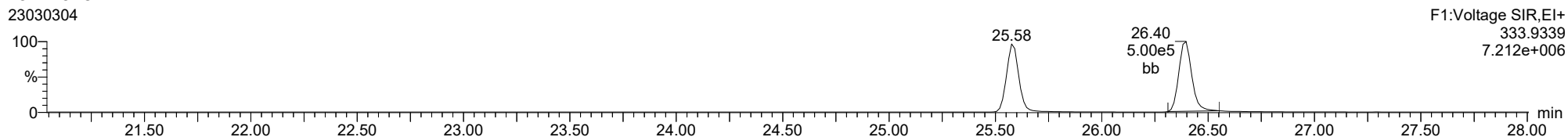
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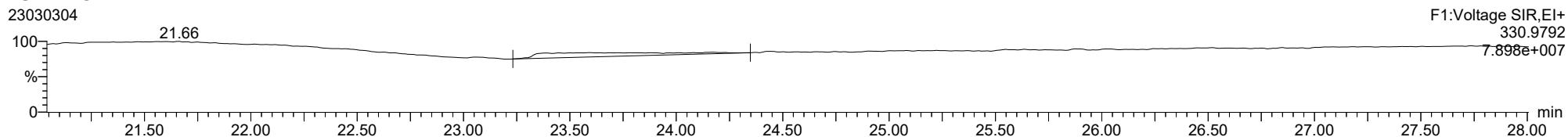
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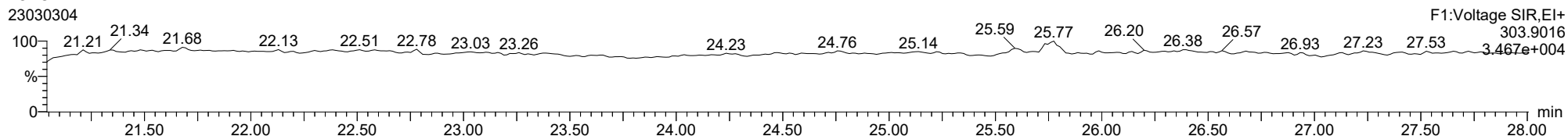
**FUNCTION1 PFK**

23030304

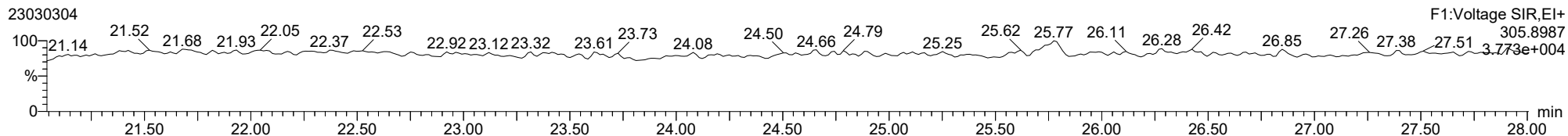


ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

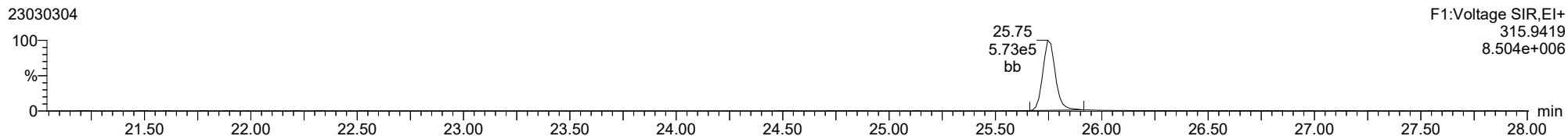
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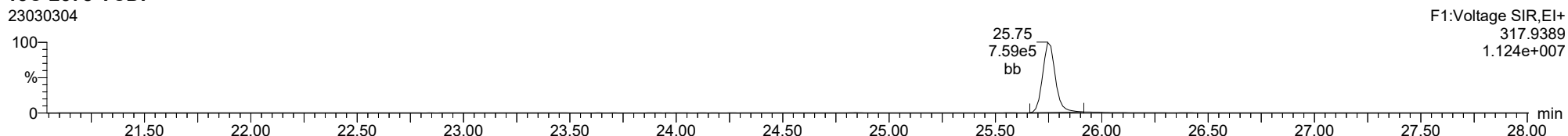
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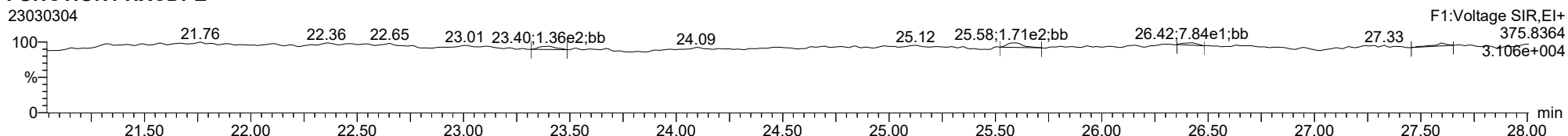
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**13C-2378-TCDF**



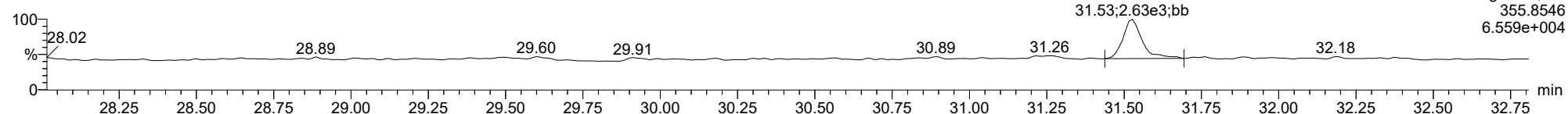
**FUNCTION1 HXCDPE**



ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

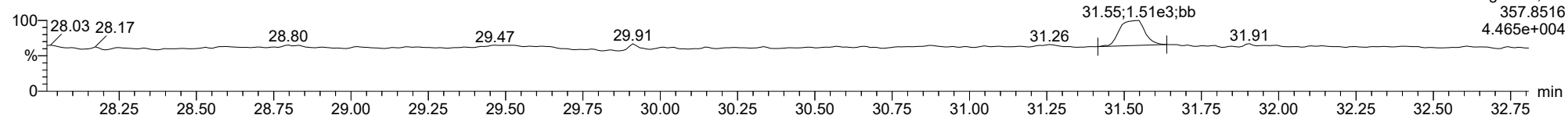
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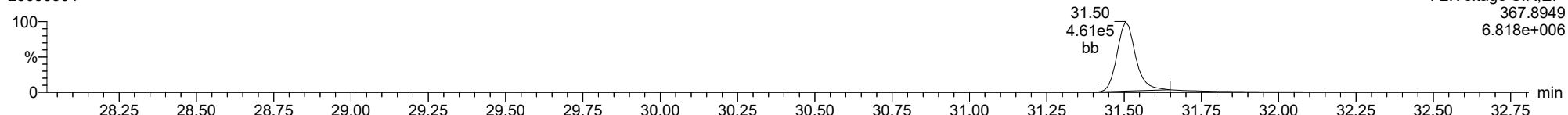
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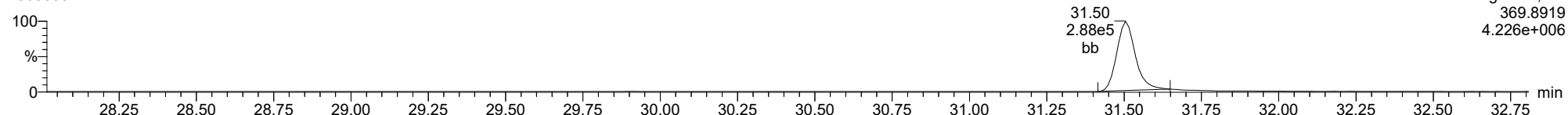
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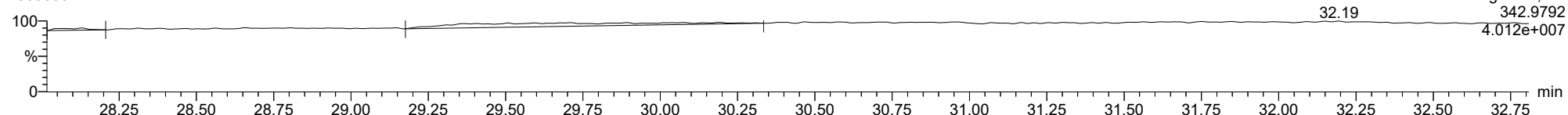
**13C-12378-PeCDD**

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**FUNCTION2 PFK**

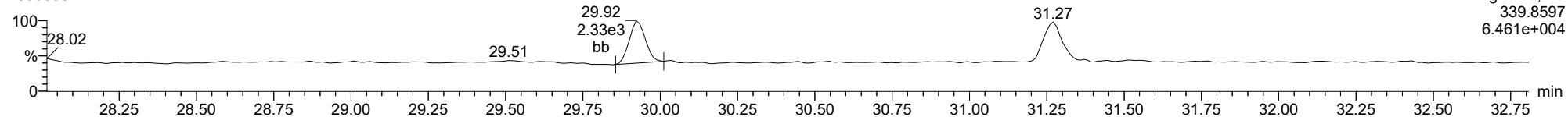
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

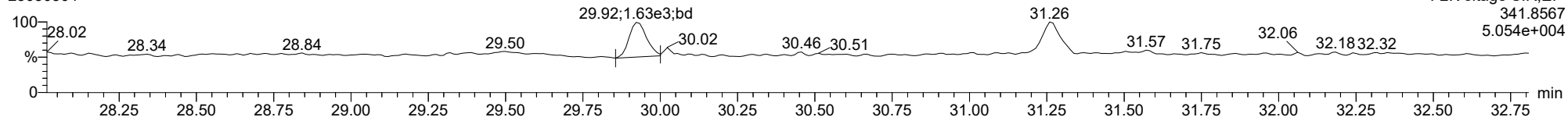
**12378-PeCDF**

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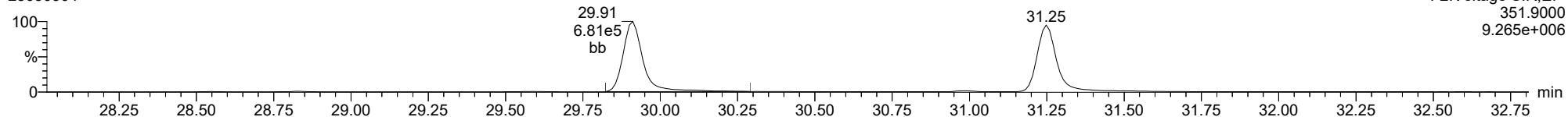
**12378-PeCDF**

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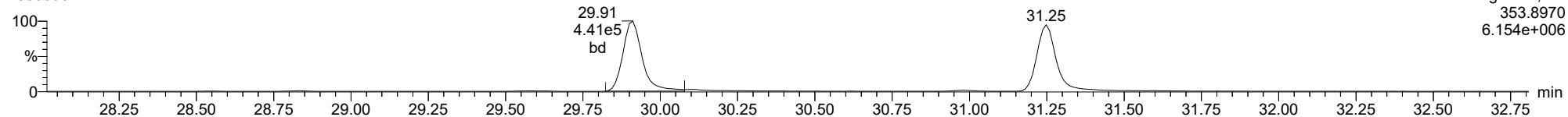
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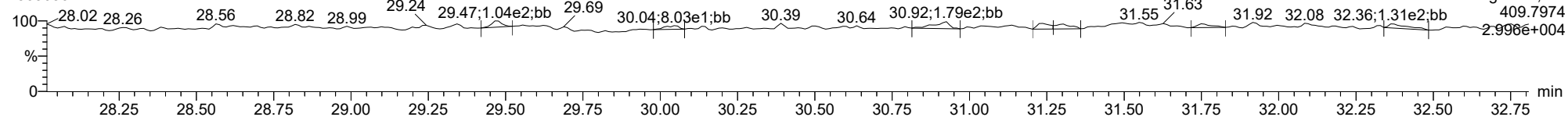
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**FUNCTION2 HPCDPE**

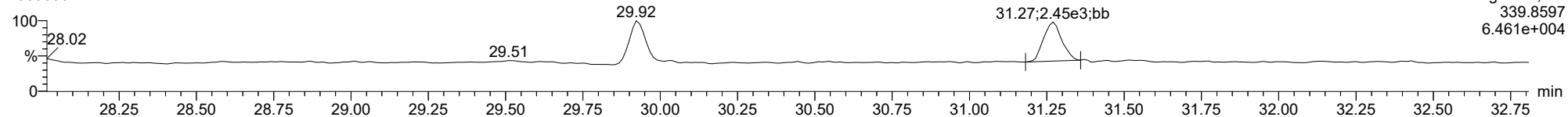
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

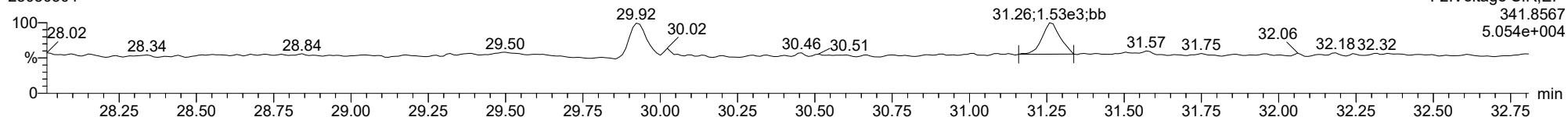
**23478-PeCDF**

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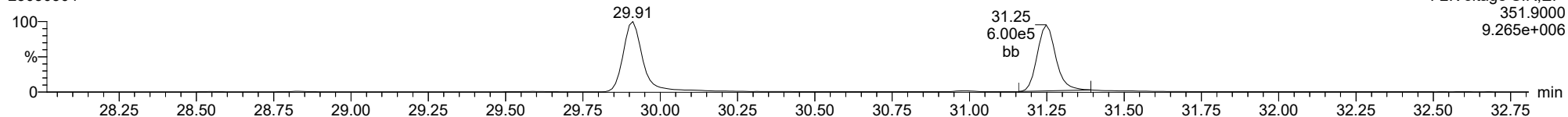
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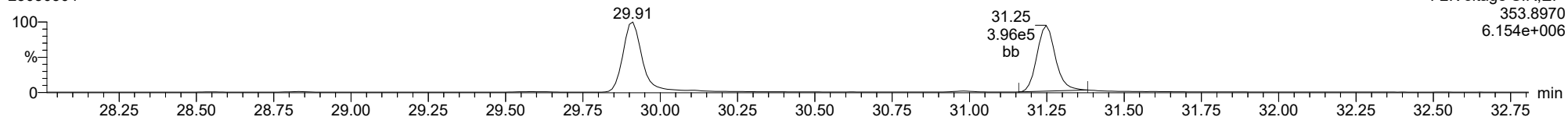
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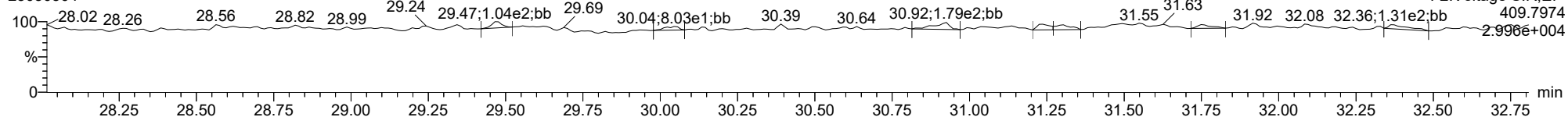
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**FUNCTION2 HPCDPE**

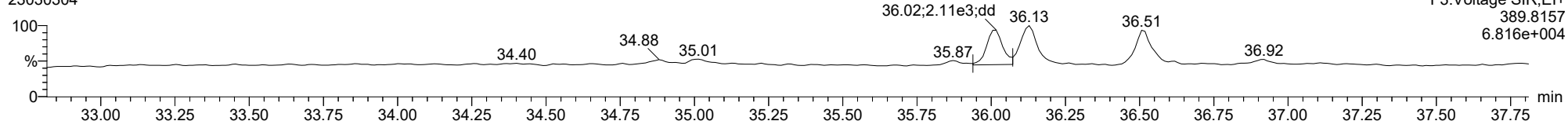
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

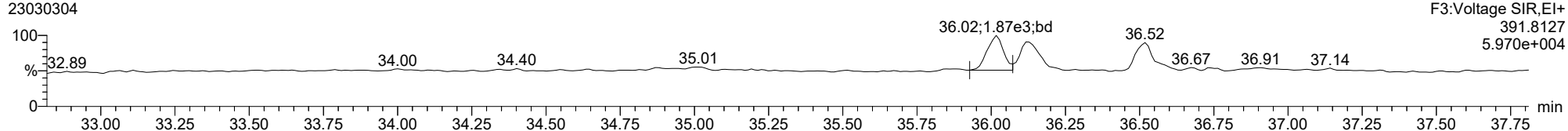
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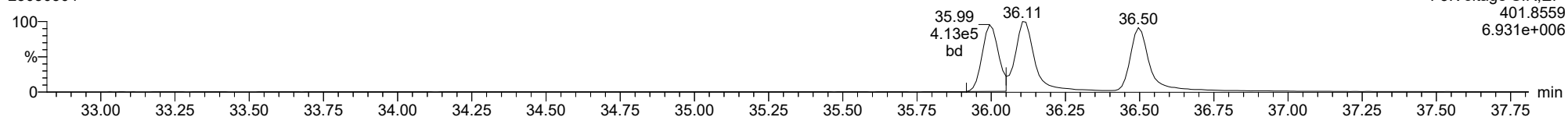
**123478-HxCDD**

23030304



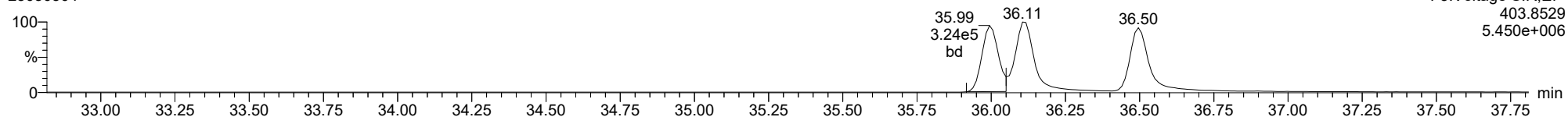
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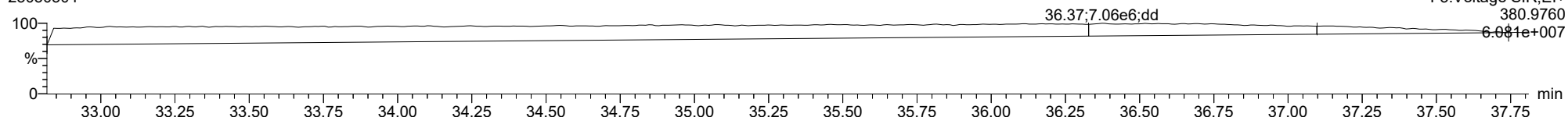
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**FUNCTION3 PFK**

23030304

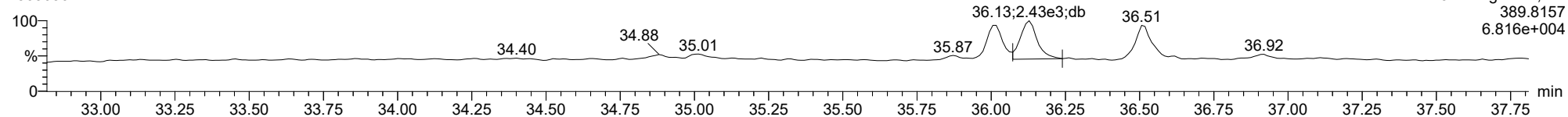




ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

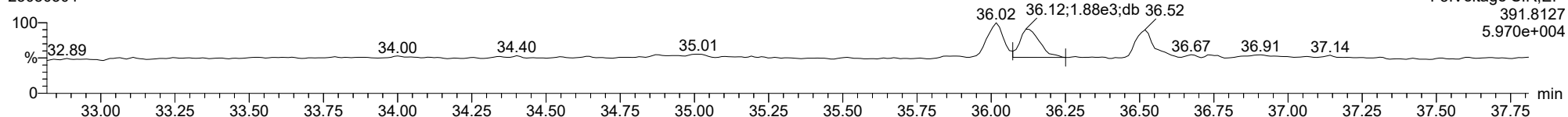
**123678-HxCDD**

23030304



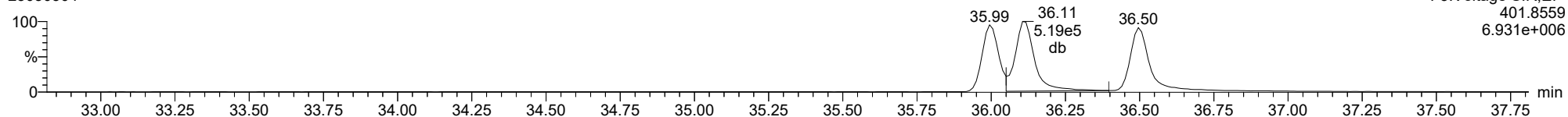
**123678-HxCDD**

23030304



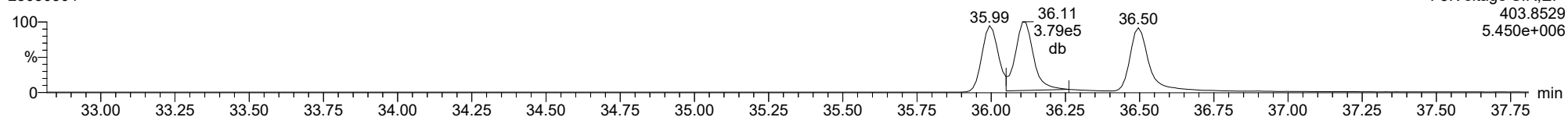
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**13C-123678-HxCDD**

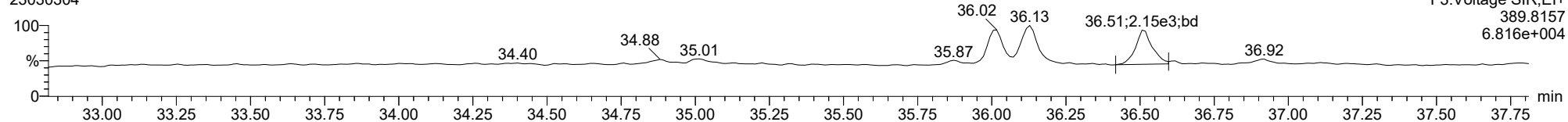
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

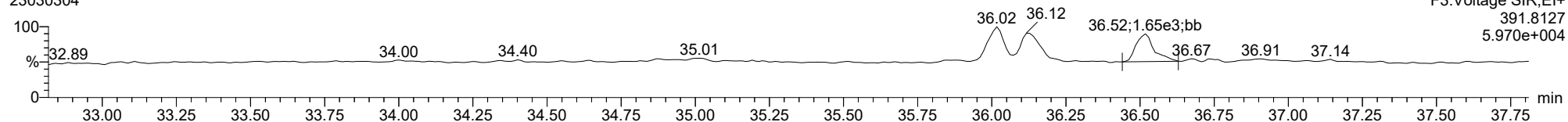
123789-HxCDD

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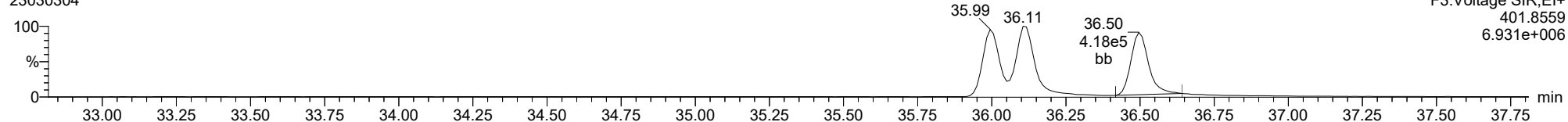
123789-HxCDD

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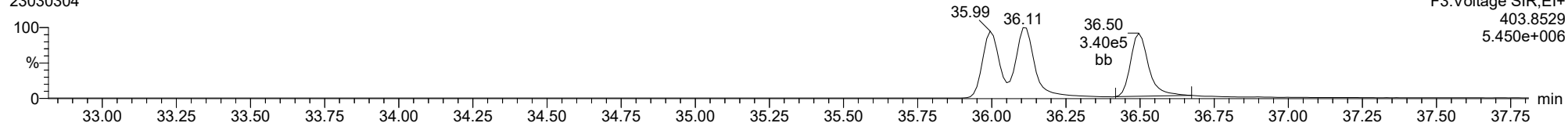
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13C-123789-HxCDD

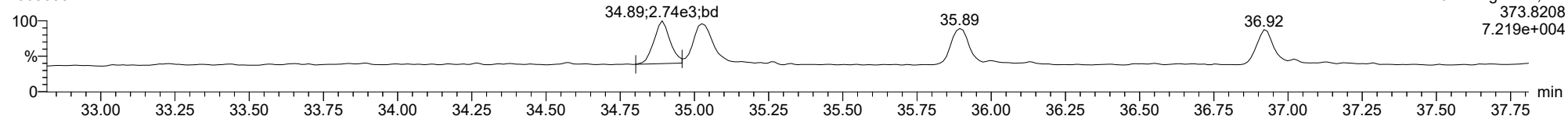
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

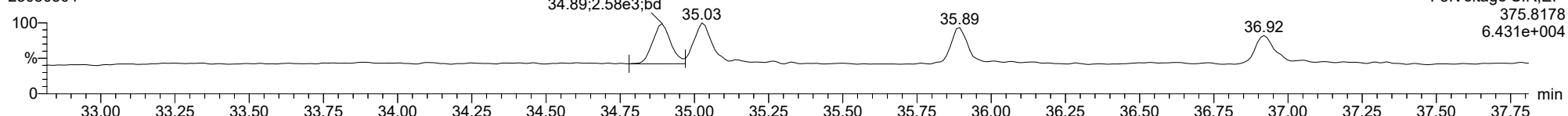
123478-HxCDF

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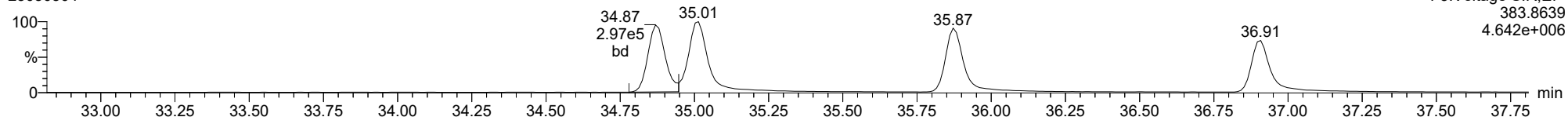
123478-HxCDF

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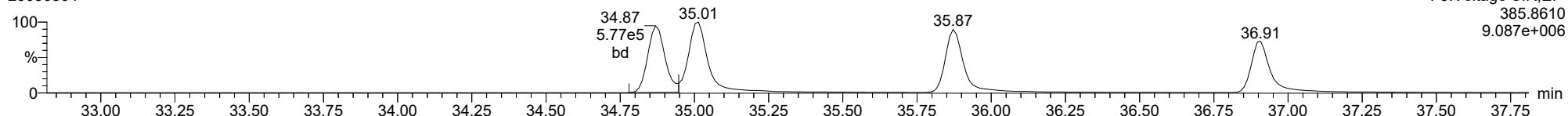
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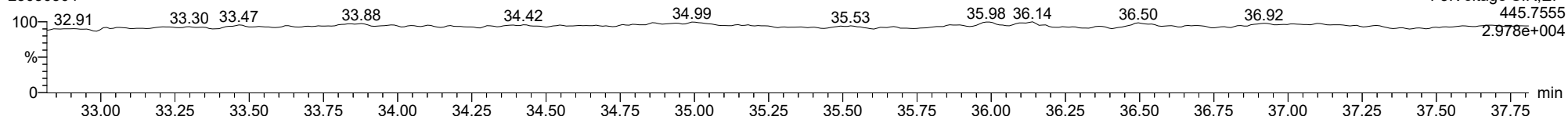
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FUNCTION3 OCDPE

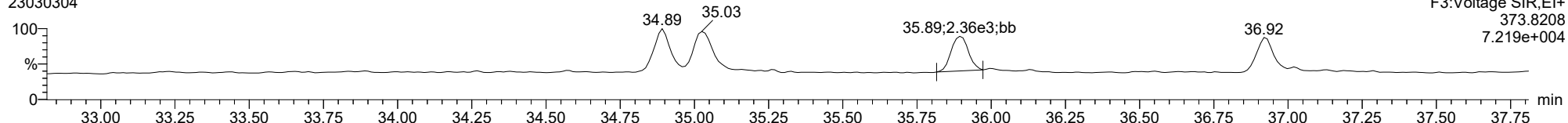
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

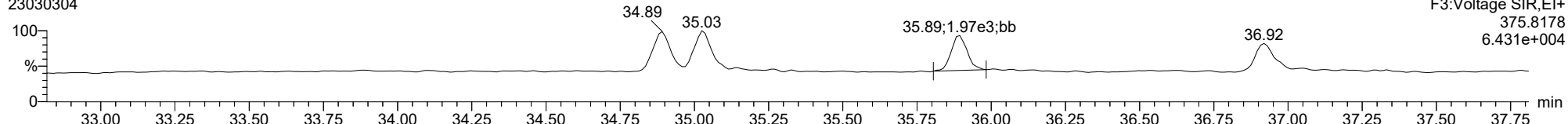
**234678-HxCDF**

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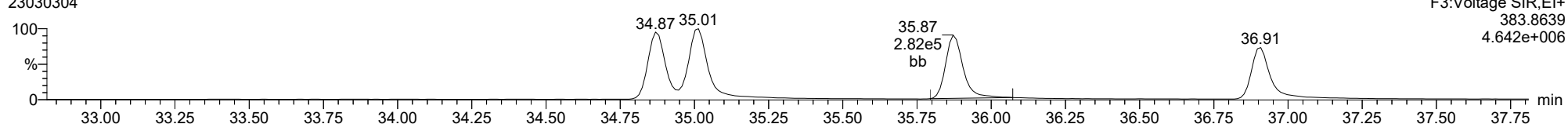
**234678-HxCDF**

23030304



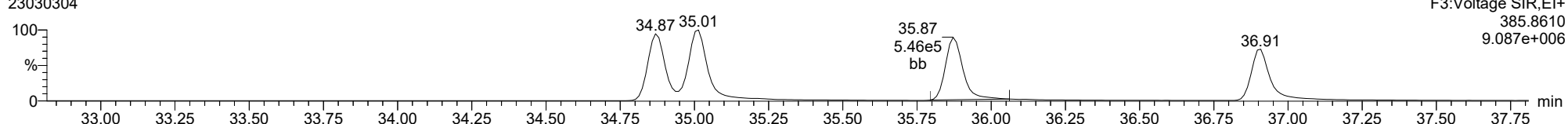
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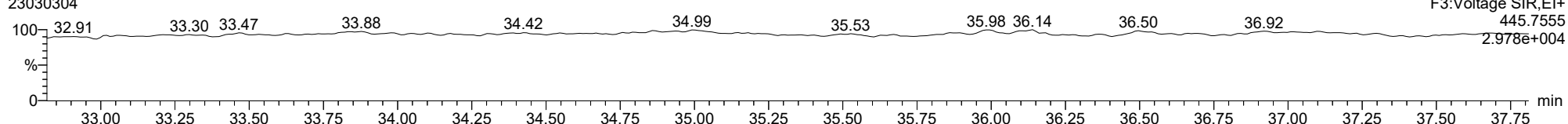
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**FUNCTION3 OCDPE**

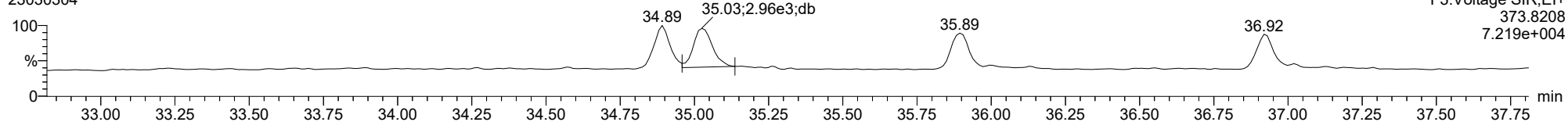
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

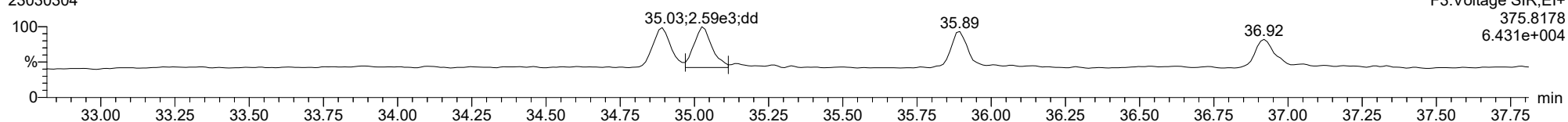
**123678-HxCDF**

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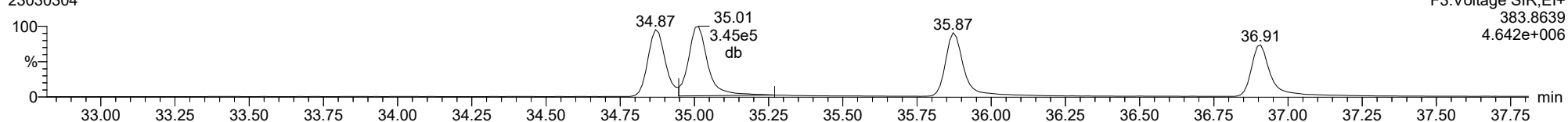
**123678-HxCDF**

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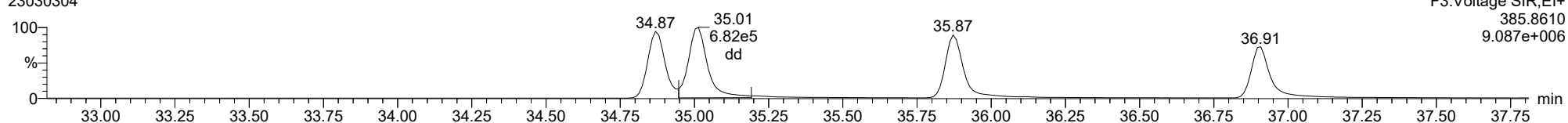
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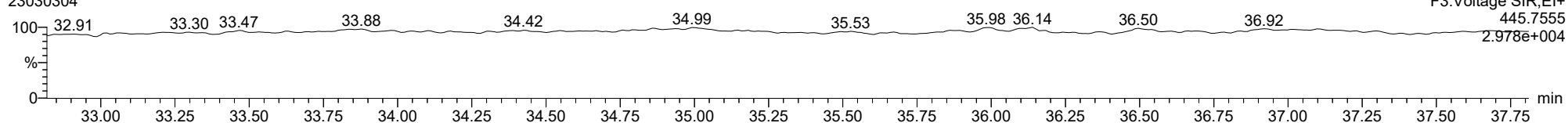
**13C-123678-HxCDF**

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**FUNCTION3 OCDPE**

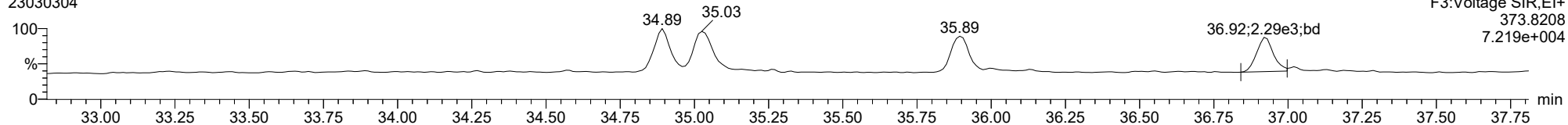
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ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

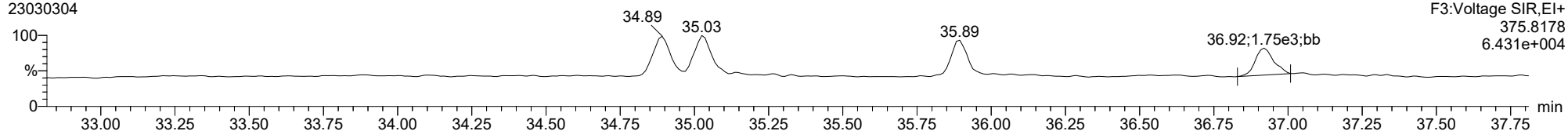
**123789-HxCDF**

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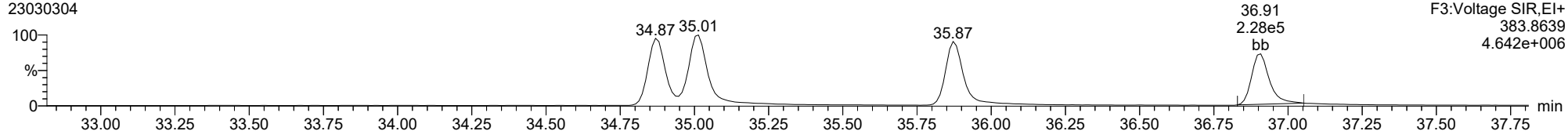
**123789-HxCDF**

23030304



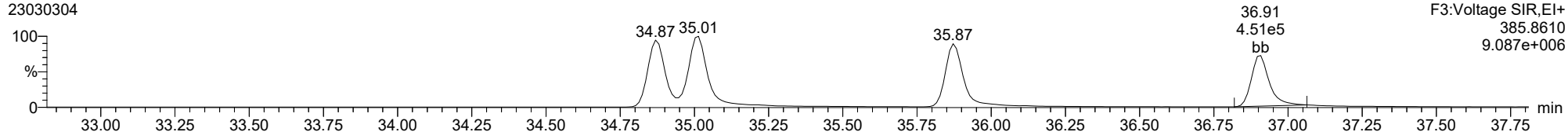
**13C-123789-HxCDF**

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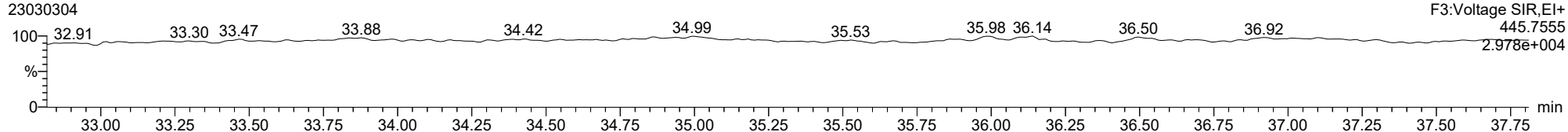
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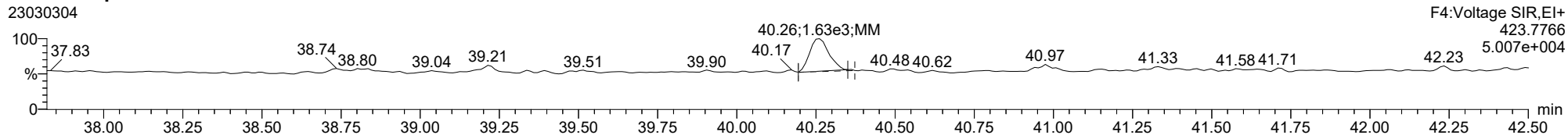
**FUNCTION3 OCDPE**

23030304

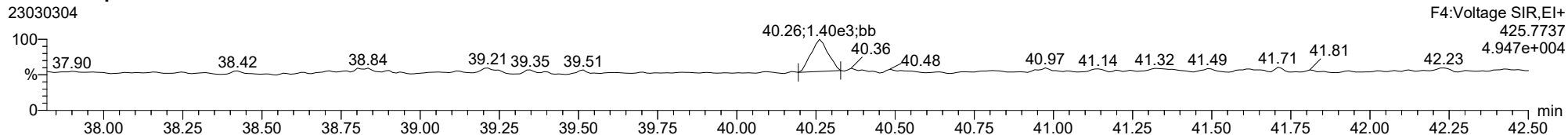


ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

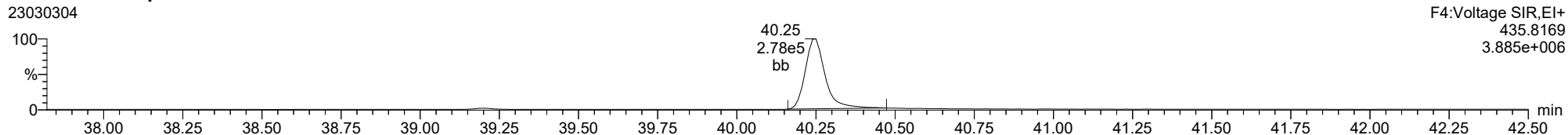
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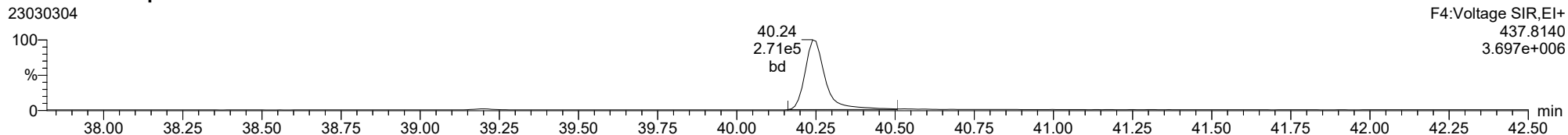
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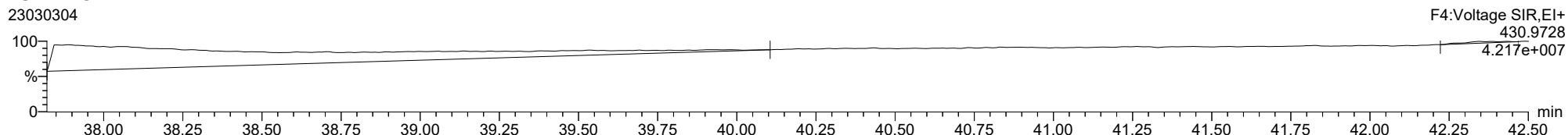
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**13C-1234678-HpCDD**



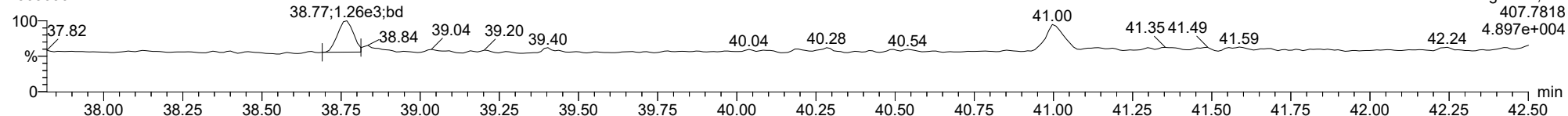
**FUNCTION4 PFK**



ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

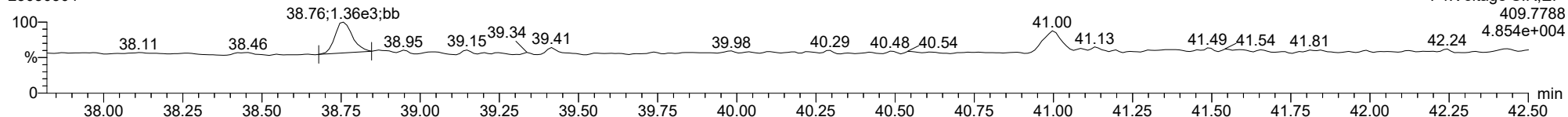
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23030304



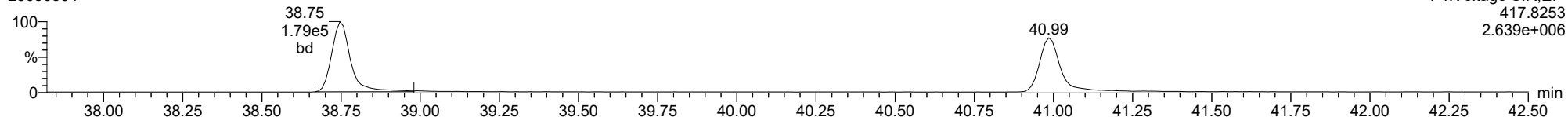
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23030304



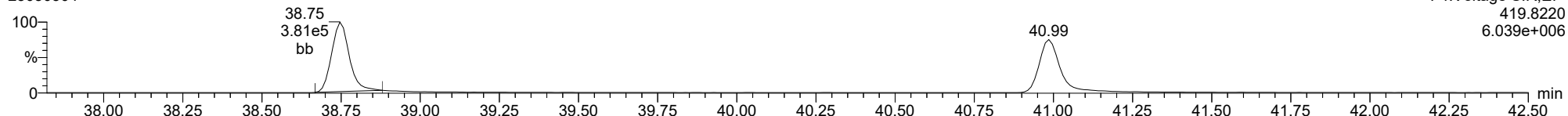
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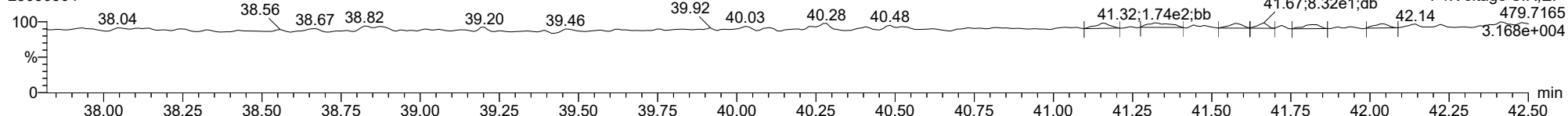
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23030304



**FUNCTION4 NCDPE**

23030304

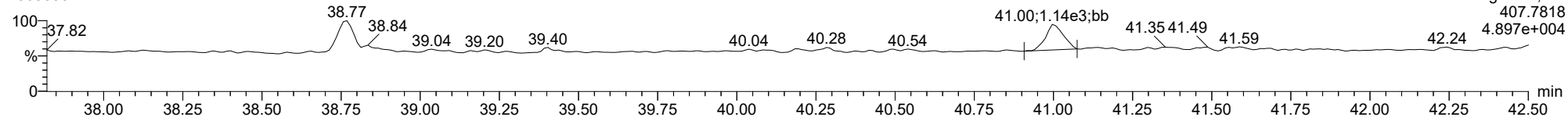




ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

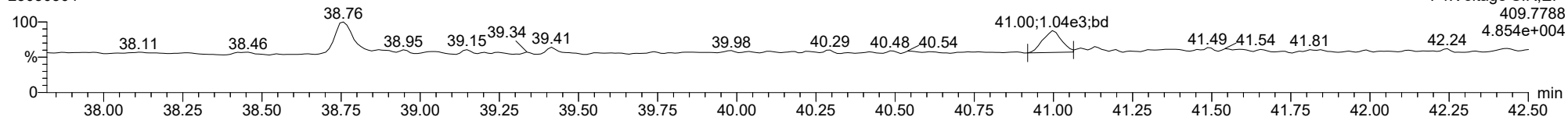
1234789-HpCDF

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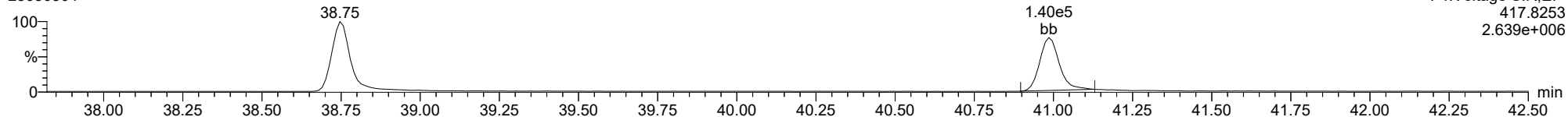
1234789-HpCDF

23030304



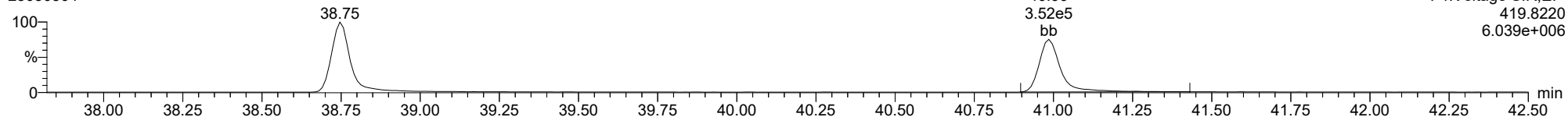
13C-1234789-HpCDF

23030304



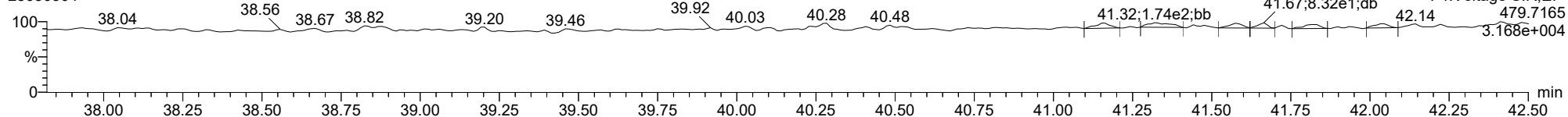
13C-1234789-HpCDF

23030304



FUNCTION4 NCDPE

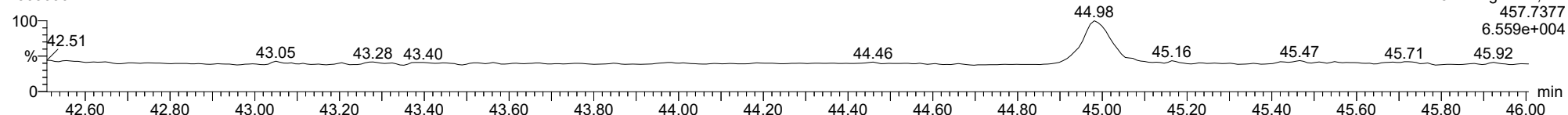
23030304



ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

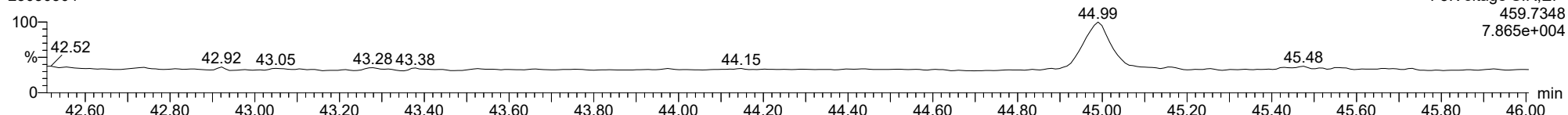
**OCDD**

23030304



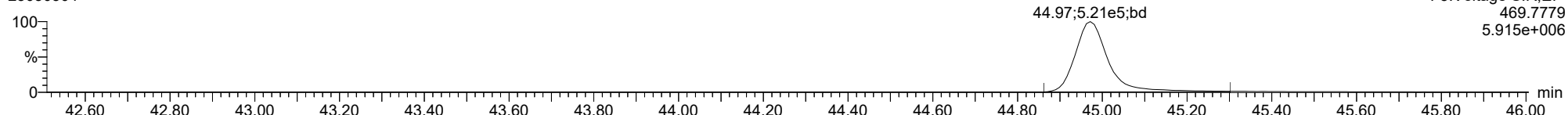
**OCDD**

23030304



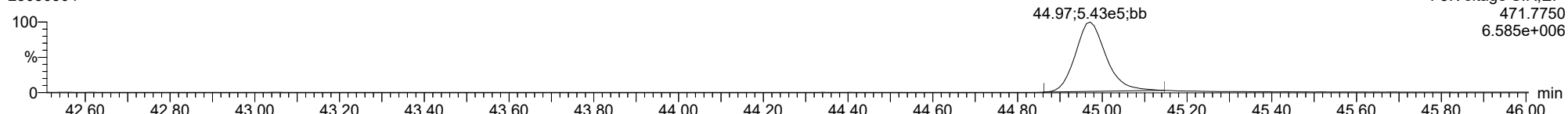
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23030304



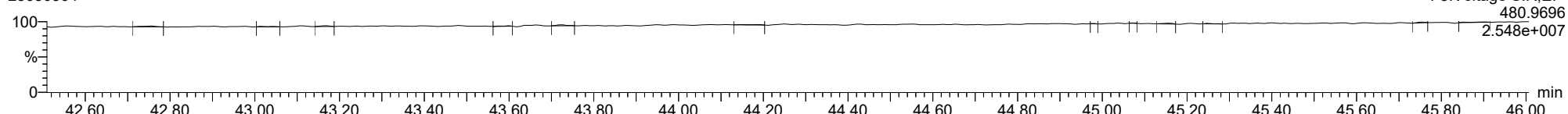
**13C-OCDD**

23030304

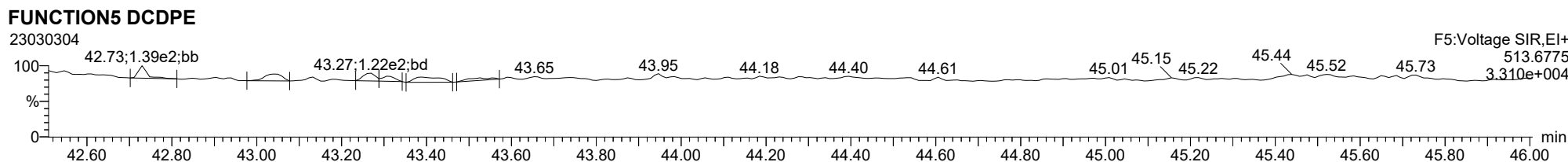
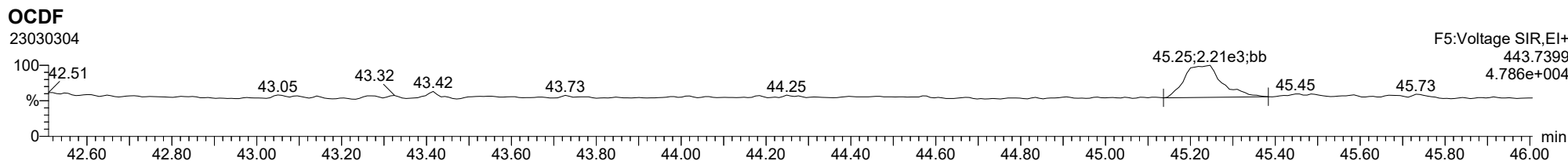
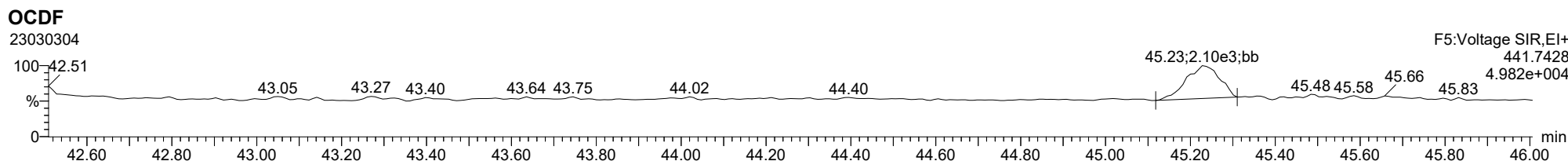


**FUNCTION5 PFK**

23030304

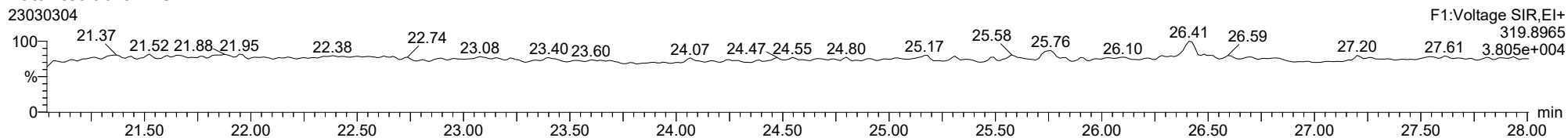


ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

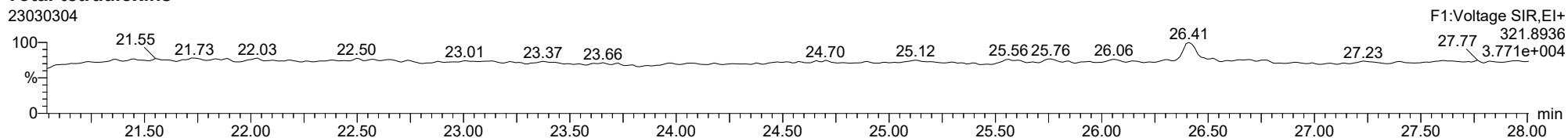


ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

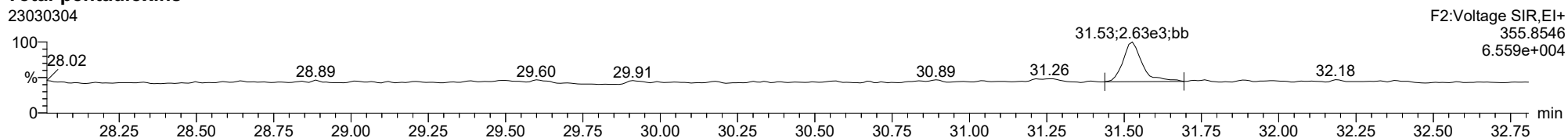
**Total-tetradiioxins**



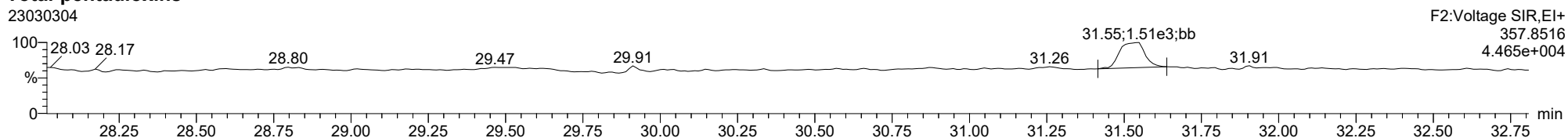
**Total-tetradiioxins**



**Total-pentadiioxins**



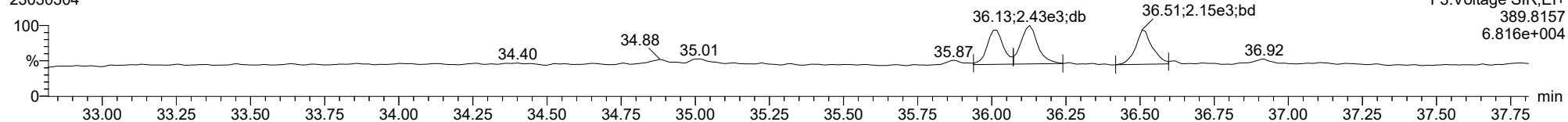
**Total-pentadiioxins**



ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

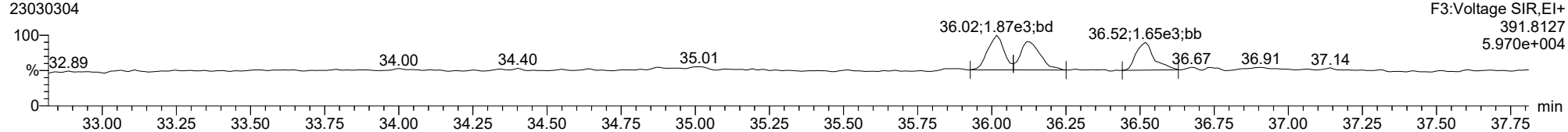
**Total-hexadioxins**

23030304



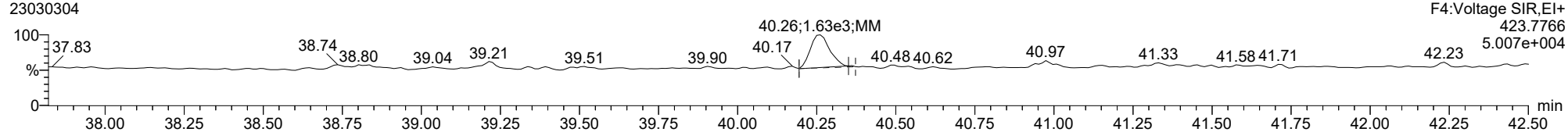
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23030304



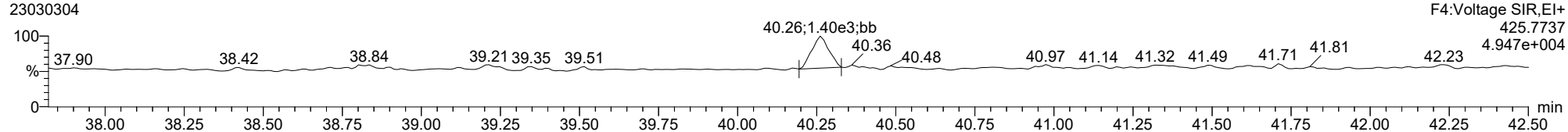
**Total-heptadioxins**

23030304



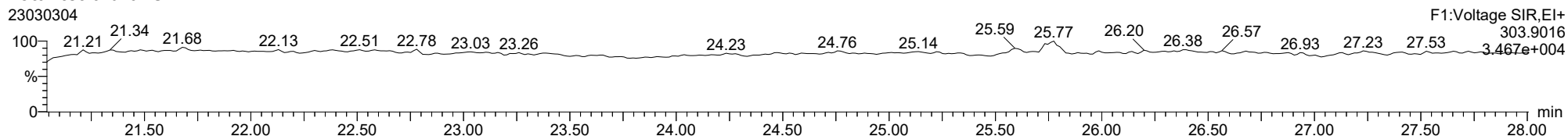
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23030304

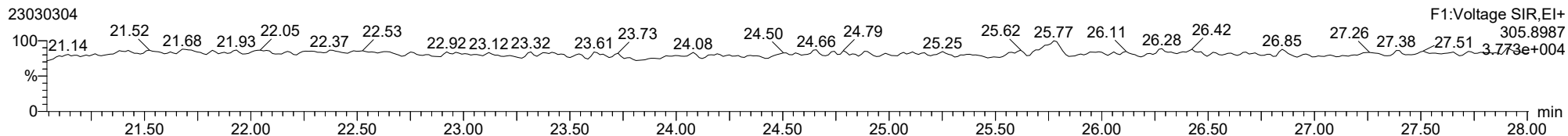


ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

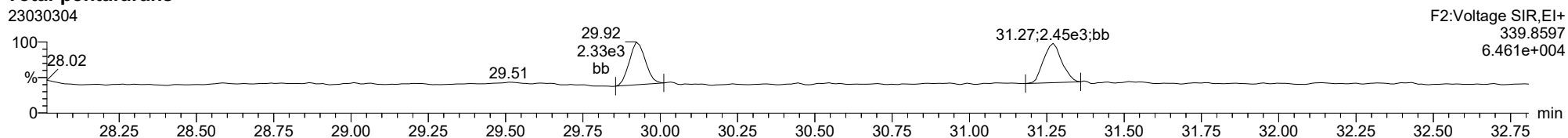
**Total-tetrafurans**



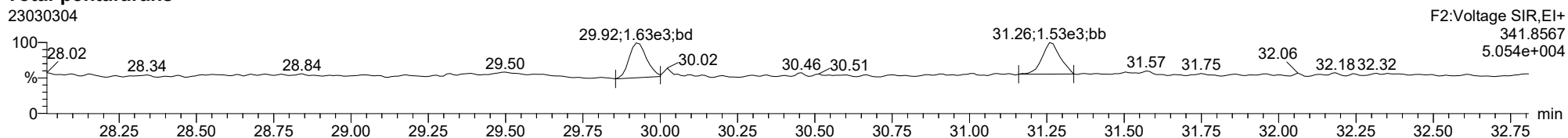
**Total-tetrafurans**



**Total-pentafurans**



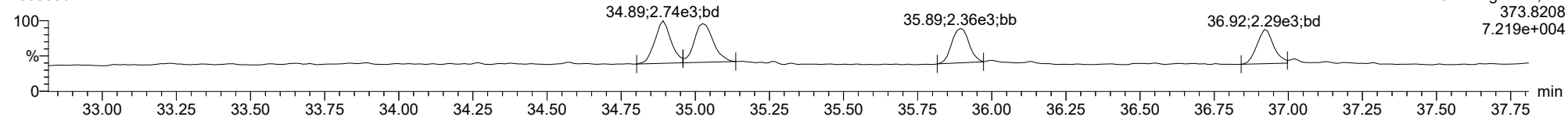
**Total-pentafurans**



ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

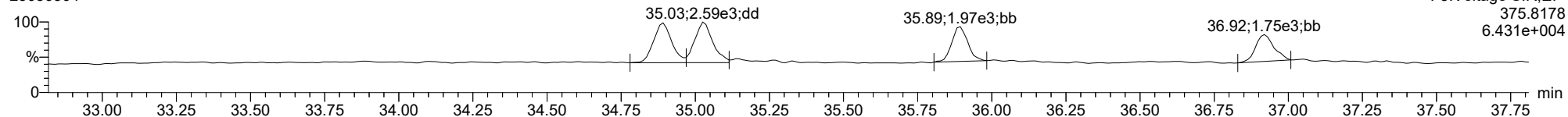
**Total-hexafurans**

23030304



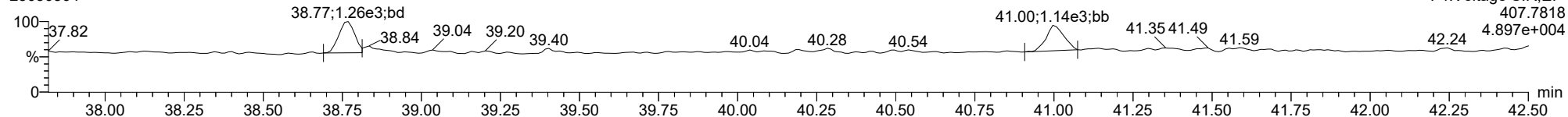
**Total-hexafurans**

23030304



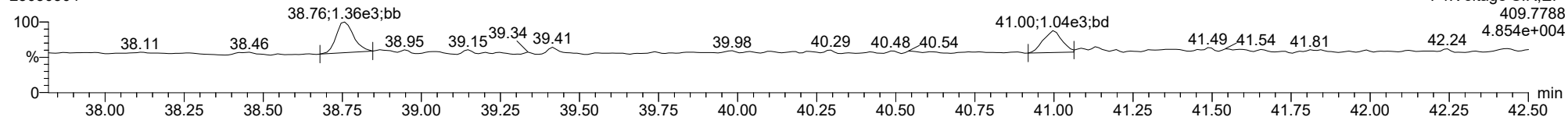
**Total-heptafurans**

23030304



**Total-heptafurans**

23030304



Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:10 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
**Calibration:** T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

**ID:** CS1CW, **Name:** 23030305, **Date:** 03-Mar-2023, **Time:** 12:23:58, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	1.705e3	2.516e3	0.702	0.678	0.770	886	1799	2.34e4	3.87e4	26.4	21.5	NO	bb	MM	0.494
12378-PeCDF	29.933	1.000	5.914e3	4.099e3	0.679	1.442	1.550	1151	1276	9.10e4	6.48e4	79.1	50.8	NO	bb	bb	2.168
23478-PeCDF	31.270	1.000	7.974e3	4.958e3	0.786	1.608	1.550	1151	1276	1.22e5	6.97e4	106.1	54.6	NO	bb	bb	2.386
123478-HxCDF	34.891	1.000	1.063e4	7.851e3	1.166	1.354	1.240	1046	1170	1.58e5	1.17e5	151.4	100.1	NO	bd	bd	2.532
234678-HxCDF	35.894	1.000	1.057e4	7.802e3	1.140	1.354	1.240	1046	1170	1.51e5	1.18e5	143.9	100.6	NO	bb	bb	2.503
123678-HxCDF	35.036	1.001	1.161e4	8.676e3	1.091	1.339	1.240	1046	1170	1.53e5	1.27e5	146.1	108.8	NO	dd	dd	2.416
123789-HxCDF	36.930	1.001	8.482e3	6.693e3	1.137	1.267	1.240	1046	1170	1.18e5	8.92e4	112.7	76.2	NO	bd	bb	2.462
1234678-HpCDF	38.768	1.000	7.253e3	6.596e3	1.003	1.100	1.050	811	627	1.05e5	9.73e4	128.9	155.1	NO	bb	bb	2.680
1234789-HpCDF	41.008	1.000	5.116e3	5.234e3	0.953	0.978	1.050	811	627	7.22e4	7.17e4	89.0	114.3	NO	bb	bb	2.342
OCDF	45.237	1.006	5.981e3	6.798e3	0.778	0.880	0.890	709	890	6.92e4	8.13e4	97.6	91.3	NO	MM	bd	4.559
2378-TCDD	26.424	1.001	2.272e3	2.723e3	1.149	0.834	0.770	1286	820	3.35e4	3.73e4	26.0	45.5	NO	bb	bb	0.486
12378-PeCDD	31.538	1.001	7.831e3	5.061e3	1.022	1.548	1.550	902	618	1.00e5	7.05e4	111.4	114.0	NO	bb	bd	2.348
123478-HxCDD	36.016	1.000	7.381e3	5.875e3	0.996	1.256	1.240	655	843	1.17e5	9.68e4	178.2	114.9	NO	bd	bd	2.415
123678-HxCDD	36.139	1.001	9.152e3	7.340e3	1.001	1.247	1.240	655	843	1.26e5	9.90e4	192.8	117.4	NO	db	dd	2.494
123789-HxCDD	36.518	1.011	7.480e3	5.936e3	0.907	1.260	1.240	655	843	1.06e5	8.62e4	162.4	102.3	NO	bd	bd	2.440
1234678-HpCDD	40.272	1.001	6.283e3	5.832e3	1.039	1.077	1.050	694	917	8.98e4	8.16e4	129.4	89.0	NO	bb	bd	2.337
OCDD	44.999	1.000	8.578e3	9.676e3	0.920	0.887	0.890	635	634	9.84e4	1.12e5	154.9	175.9	NO	bd	bb	5.505
13C-2378-TCDF	25.760	1.007	5.230e5	6.960e5	1.620	0.752	0.770	2566	1723	7.68e6	1.02e7	2994.2	5911.4	NO	bb	bb	98.043
13C-12378-PeCDF	29.922	1.169	4.082e5	2.718e5	1.240	1.502	1.550	3092	2294	5.44e6	3.64e6	1758.1	1584.9	NO	bd	bb	71.437
13C-23478-PeCDF	31.259	1.222	4.106e5	2.788e5	1.118	1.473	1.550	3092	2294	5.91e6	4.02e6	1912.5	1751.3	NO	bb	bb	80.373
13C-123478-HxCDF	34.880	0.955	2.117e5	4.140e5	1.168	0.511	0.510	1778	2186	3.18e6	6.21e6	1786.5	2841.3	NO	bd	bd	93.801
13C-123678-HxCDF	35.014	0.959	2.754e5	4.947e5	1.386	0.557	0.510	1778	2186	3.40e6	6.43e6	1911.3	2941.0	NO	db	db	97.276
13C-234678-HxCDF	35.882	0.983	2.122e5	4.318e5	1.129	0.491	0.510	1778	2186	3.04e6	5.98e6	1709.4	2734.1	NO	bb	bd	99.880
13C-123789-HxCDF	36.908	1.011	1.853e5	3.568e5	0.932	0.519	0.510	1778	2186	2.62e6	5.01e6	1471.0	2293.6	NO	bb	bb	101.893
13C-1234678-HpCDF	38.757	1.062	1.579e5	3.573e5	0.895	0.442	0.440	2049	3174	2.36e6	5.45e6	1151.3	1718.3	NO	bb	bb	100.794
13C-1234789-HpCDF	40.997	1.123	1.372e5	3.264e5	0.770	0.420	0.440	2049	3174	1.74e6	3.92e6	851.0	1236.7	NO	bd	bd	105.482
13C-1234-TCDD	25.591	0.000	3.429e5	4.245e5	1.000	0.808	0.770	2519	1748	5.22e6	6.49e6	2072.6	3712.2	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	3.982e5	4.964e5	1.152	0.802	0.770	2519	1748	5.51e6	6.93e6	2188.2	3962.8	NO	bb	bb	101.152
13C-12378-PeCDD	31.515	1.232	3.242e5	2.131e5	0.829	1.521	1.550	1586	877	4.46e6	2.78e6	2809.5	3168.1	NO	bb	bd	84.489
13C-123478-HxCDD	36.005	0.986	3.100e5	2.413e5	0.995	1.285	1.240	2517	1649	4.83e6	3.77e6	1920.9	2283.3	NO	bd	bd	97.050
13C-123678-HxCDD	36.117	0.989	3.700e5	2.908e5	1.157	1.273	1.240	2517	1649	5.06e6	4.03e6	2012.2	2442.3	NO	db	db	100.049
13C-1234678-HpCDD	40.250	1.102	2.556e5	2.433e5	0.840	1.051	1.050	2183	1602	3.48e6	3.29e6	1594.9	2052.3	NO	bb	bb	103.999
13C-OCDD	44.980	1.232	3.386e5	3.823e5	0.767	0.886	0.890	3187	1733	3.80e6	4.27e6	1193.7	2462.5	NO	bb	bb	164.498
13C-123789-HxCDD	36.507	0.000	3.194e5	2.515e5	1.000	1.270	1.240	2517	1649	4.46e6	3.59e6	1770.5	2177.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	5.065e3		1.288			2040		7.28e4		35.7			bb		0.513



Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:10 Pacific Standard Time

ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	886	1799								
1289-TCDF					0.678		0.770	886	1799								
13468-PECDF					1.246		1.550	811	1221								
12389-PECDF					0.496		1.550	1151	1276								
123468-HXCDF					1.169		1.240	1046	1170								
1368-TCDD					1.015		0.770	1286	820								
1289-TCDD					0.909		0.770	1286	820								
12479-PECDD					2.301		1.550	902	618								
12389-PECDD					1.184		1.550	902	618								
124679-HXCDD					1.115		1.240	655	843								
1234679-HPCDD					1.137		1.050	694	917								
Total-tetrafurans			1.705e3		0.727			886		2.34e4							0.494
Total-penta1			0.000e0					811		0.00e0							
Total-pentafurans			1.389e4		0.654			1151		2.13e5							4.554
Total-hexafurans			4.139e4		1.141			1046		5.82e5							9.938
Total-heptafurans			1.237e4		0.978			811		1.77e5							5.023
Total-Furans			7.533e4		0.922			886		1.06e6							24.566
Total-tetradoxins			2.272e3		1.024			1286		3.35e4							0.486
Total-pentadoxins			7.831e3		1.502			902		1.00e5							2.348
Total-hexadoxins			2.401e4		1.005			655		3.49e5							7.349
Total-heptadoxins			6.283e3		1.088			694		8.98e4							2.337
Total-Dioxins			4.898e4		1.130			1286		6.72e5							18.025
Total-TEQ			1.243e5					1286		1.74e6							42.592
FUNCTION1 PFK			0.000e0					501375		0.00e0							
FUNCTION2 PFK			7.687e6					300953		7.99e6							0.000
FUNCTION3 PFK			1.081e7					473463		1.95e7							0.000
FUNCTION4 PFK			1.035e7					332160		2.87e6							
FUNCTION5 PFK			6.101e5					195111		8.38e5							
FUNCTION1 HXCD...			6.739e2					611		6.36e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			7.361e2					923		1.83e4							0.000
FUNCTION3 OCDPE			2.008e2					596		2.61e3							0.000
FUNCTION4 NCDPE			9.397e1					539		1.40e3							0.000
FUNCTION5 DCDPE			1.677e2					561		3.39e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:10 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50**

**Calibration: T:\Autospec\Curves\230303\CIH.cdb 06 Mar 2023 10:57:27**

**ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
2	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
3	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
4	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
5	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
2	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:10 Pacific Standard Time

**ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168
3	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494
4	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
5	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
6	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
7	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
8	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532
9	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
10	OCDF	45.24	5.981e3	6.798e3	0.778	0.88	0.89	97.6	YES	NO	MM	bd	4.559
11	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
2	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
3	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:10 Pacific Standard Time

**ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk**

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486
2	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
3	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
4	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415
5	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348
6	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337
7	OCDD	45.00	8.578e3	9.676e3	0.920	0.89	0.89	154.9	YES	NO	bd	bb	5.505

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168
3	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494
4	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
5	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
6	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
7	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
8	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532
9	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
10	OCDF	45.24	5.981e3	6.798e3	0.778	0.88	0.89	97.6	YES	NO	MM	bd	4.559
11	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342
12	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486
13	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
14	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
15	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415
16	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348
17	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337
18	OCDD	45.00	8.578e3	9.676e3	0.920	0.89	0.89	154.9	YES	NO	bd	bb	5.505

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.41	6.929e5					4.3	YES		bb		0.000
2	FUNCTION2 PFK	28.05	6.994e6					22.3	YES		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.60	1.788e4					1.3	NO		bb		0.000
2	FUNCTION3 PFK	36.61	1.585e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	36.53	6.942e3					0.8	NO		bb		0.000
4	FUNCTION3 PFK	33.99	9.502e3					0.9	NO		bb		0.000
5	FUNCTION3 PFK	33.78	4.298e6					7.0	YES		db		0.000
6	FUNCTION3 PFK	33.15	6.467e6					29.8	YES		bd		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.85	1.035e7					8.6	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.97	6.101e5					4.3	YES		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.27	8.033e1					1.9	NO		bb		0.000
2	FUNCTION1 HXCD...	24.98	2.706e2					3.4	YES		bb		0.000
3	FUNCTION1 HXCD...	22.17	1.286e2					2.0	NO		bb		0.000
4	FUNCTION1 HXCD...	21.47	8.089e1					1.9	NO		bb		0.000
5	FUNCTION1 HXCD...	21.17	1.135e2					1.3	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:10 Pacific Standard Time

**ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk**

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.66	1.045e2					4.3	YES		db		0.000
2	FUNCTION2 HPCD...	32.58	1.134e2					3.0	NO		bd		0.000
3	FUNCTION2 HPCD...	31.88	7.272e1					1.9	NO		bb		0.000
4	FUNCTION2 HPCD...	30.71	7.070e1					1.8	NO		bb		0.000
5	FUNCTION2 HPCD...	30.13	1.134e2					2.5	NO		bb		0.000
6	FUNCTION2 HPCD...	28.92	7.142e1					2.0	NO		bb		0.000
7	FUNCTION2 HPCD...	28.66	9.983e1					2.2	NO		bb		0.000
8	FUNCTION2 HPCD...	28.24	9.016e1					2.1	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.50	2.008e2					4.4	YES		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.59	9.397e1					2.6	NO		bb		0.000

**ETHERS6**

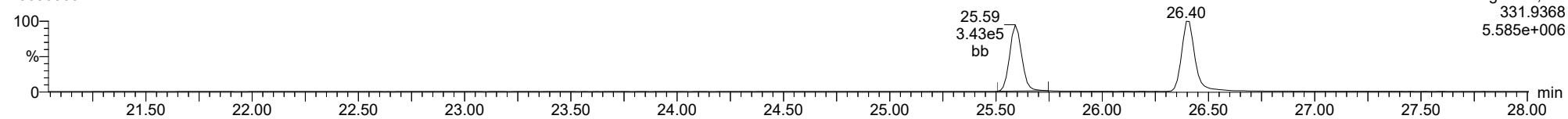
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.72	7.355e1					2.5	NO		bb		0.000
2	FUNCTION5 DCDPE	44.30	9.416e1					3.6	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

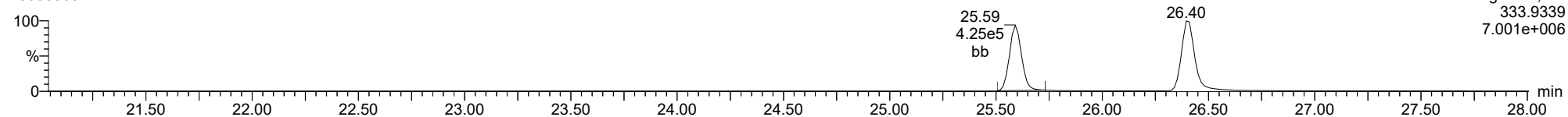
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23030305



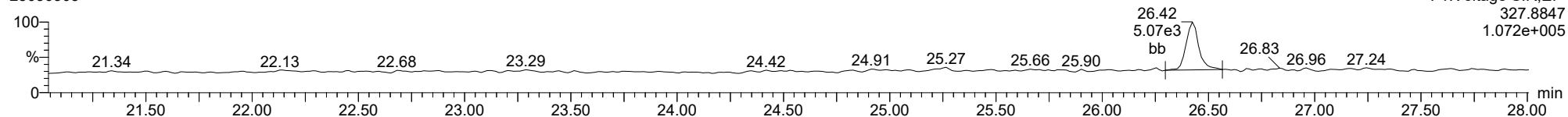
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23030305



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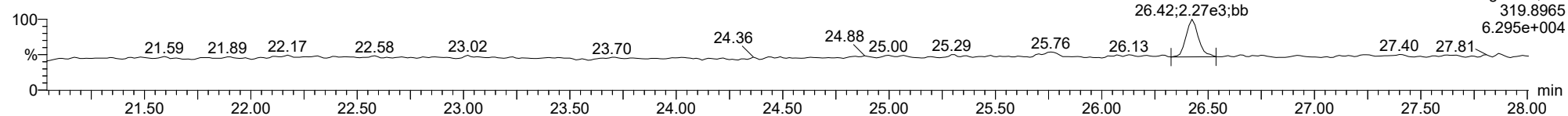
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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

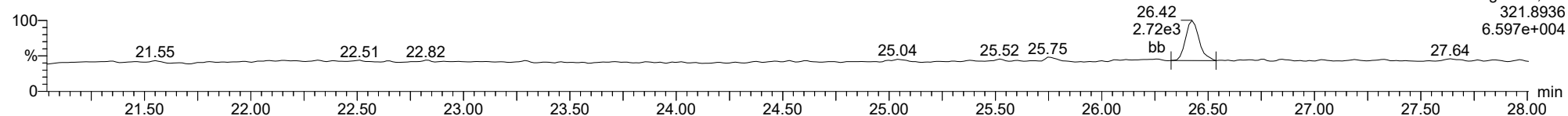
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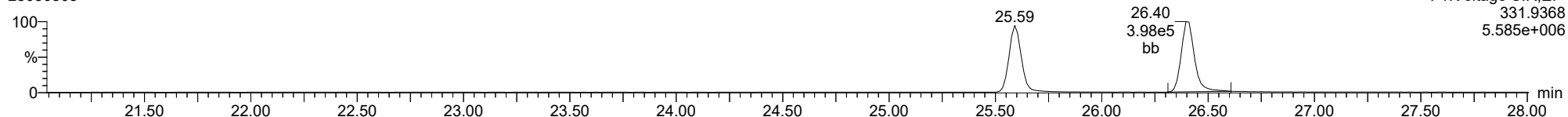
**2378-TCDD**

23030305



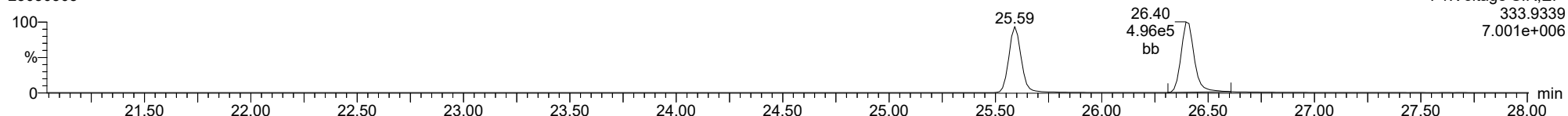
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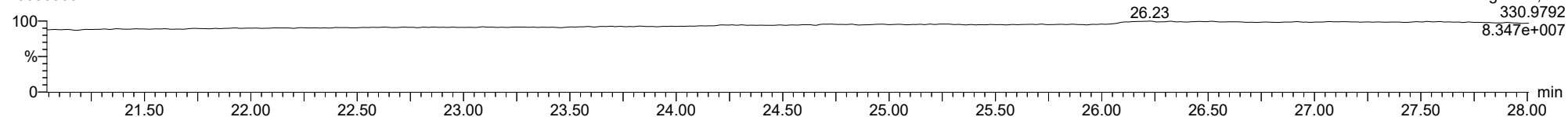
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23030305



**FUNCTION1 PFK**

23030305

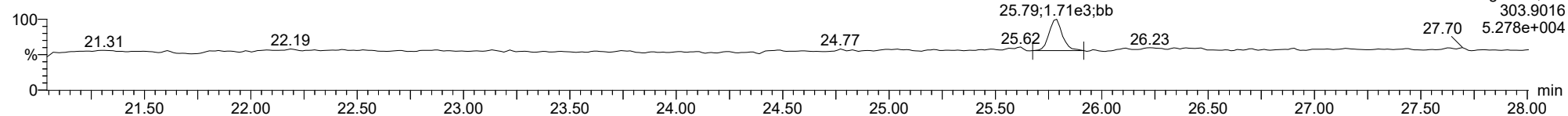




ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

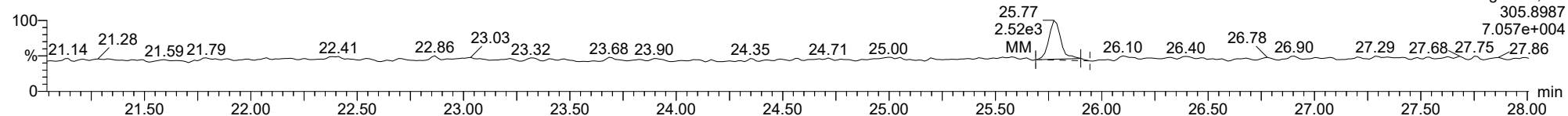
**2378-TCDF**

23030305



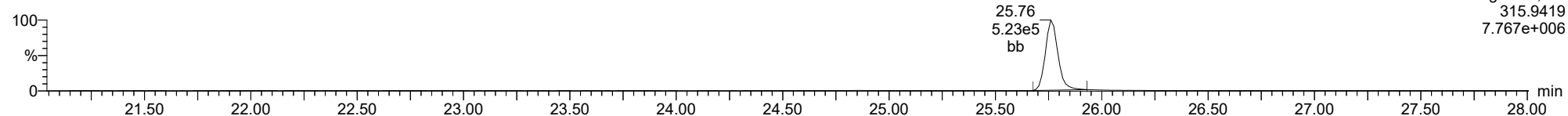
**2378-TCDF**

23030305



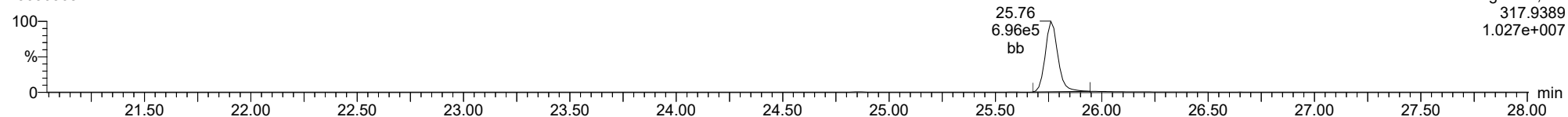
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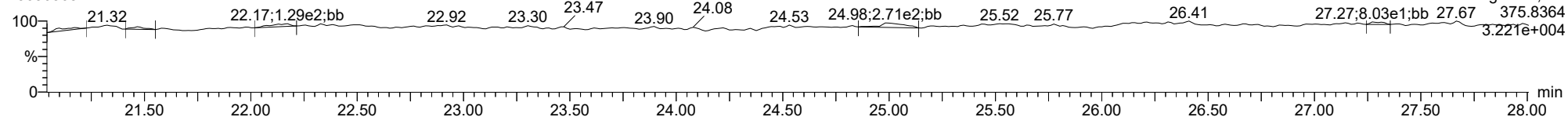
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**FUNCTION1 HXCDPE**

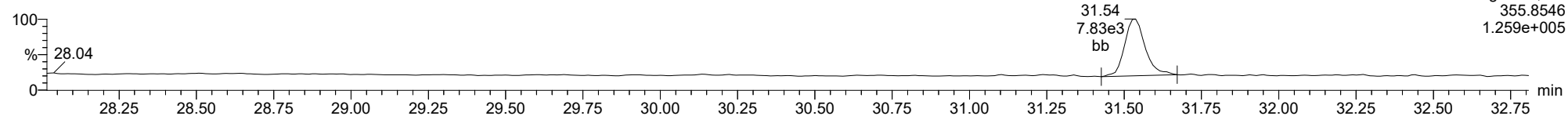
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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

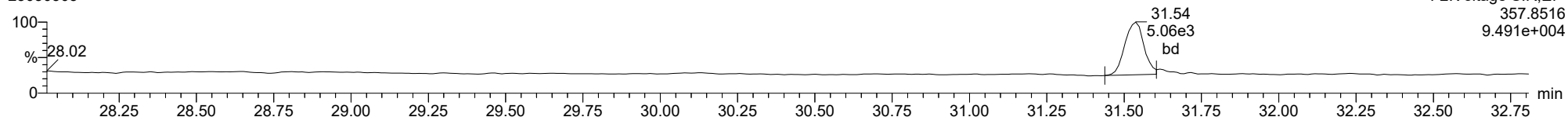
**12378-PeCDD**

23030305



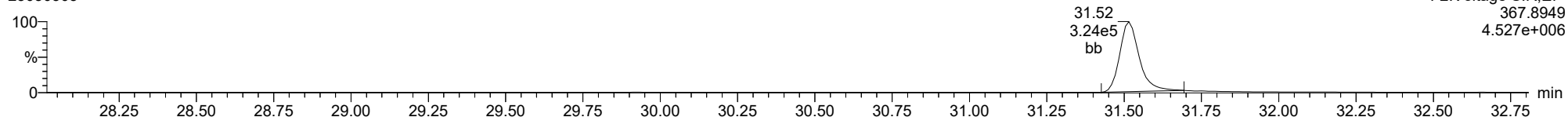
**12378-PeCDD**

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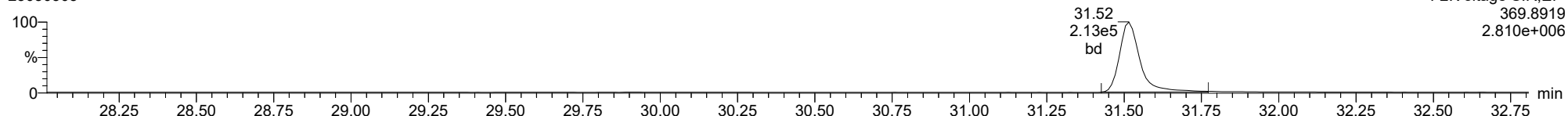
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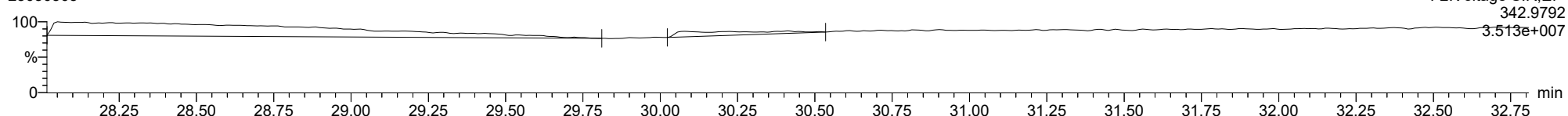
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23030305



**FUNCTION2 PFK**

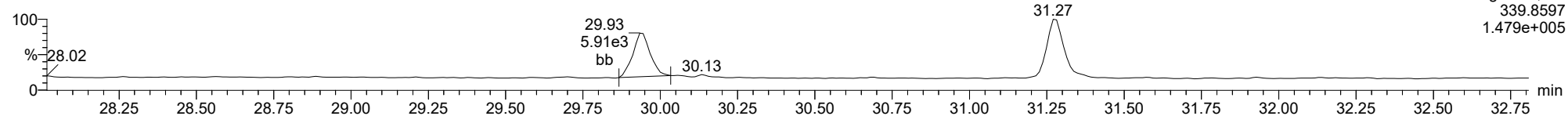
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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

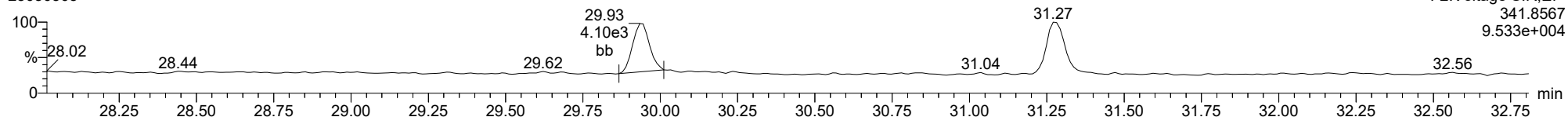
**12378-PeCDF**

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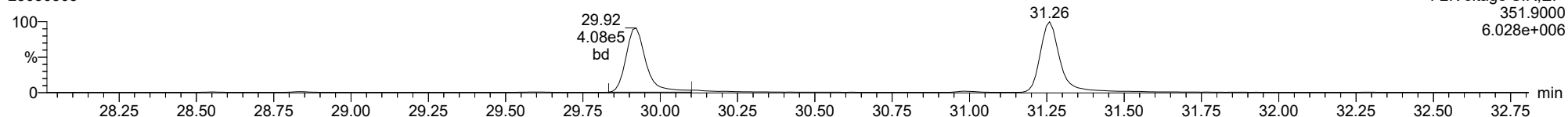
**12378-PeCDF**

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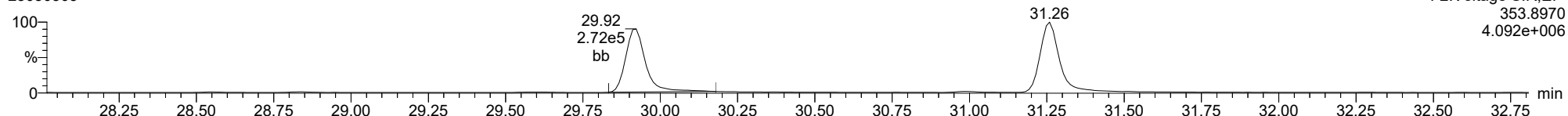
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23030305



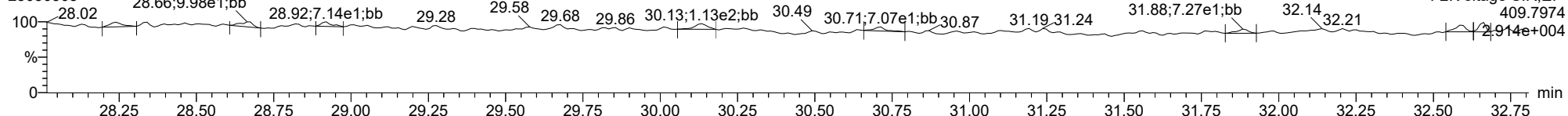
**13C-12378-PeCDF**

23030305



**FUNCTION2 HPCDPE**

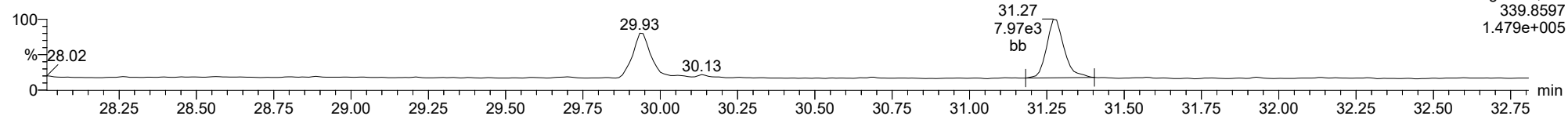
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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

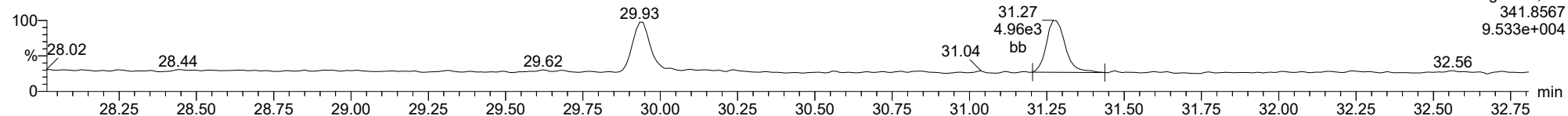
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23030305



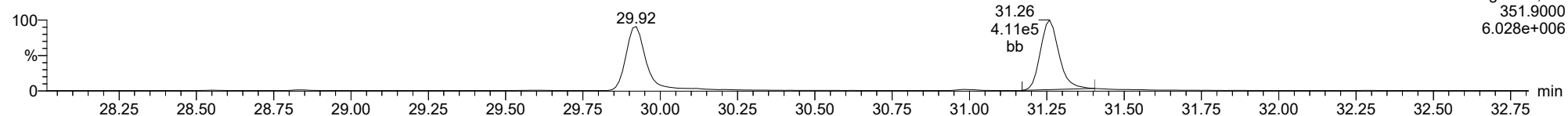
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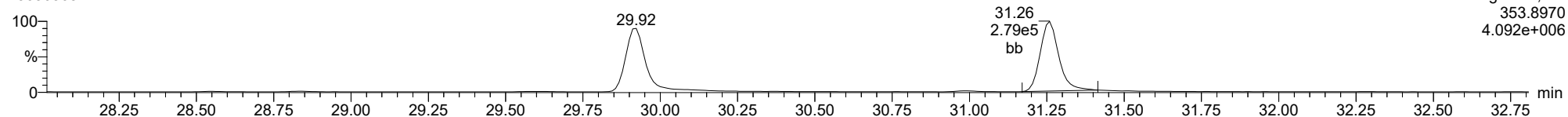
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23030305



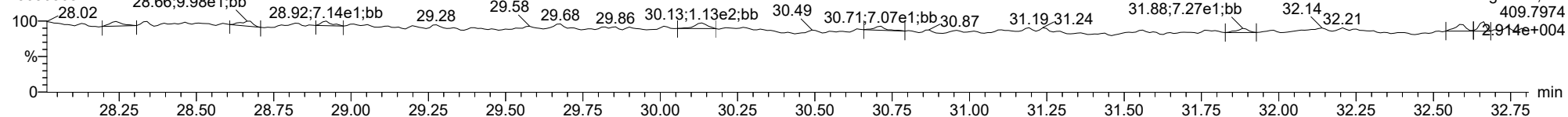
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23030305



**FUNCTION2 HPCDPE**

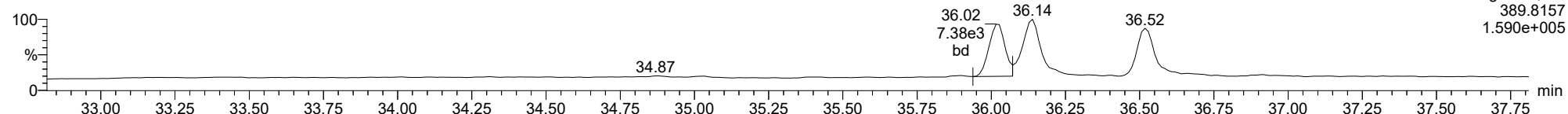
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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

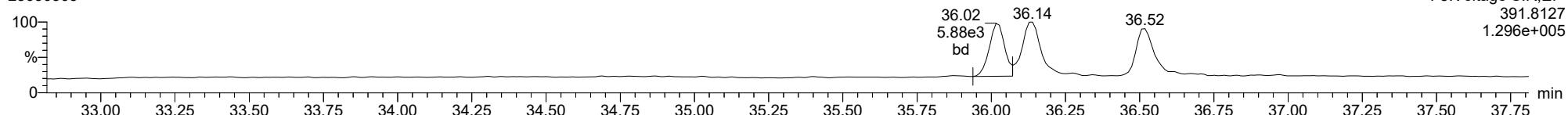
**123478-HxCDD**

23030305



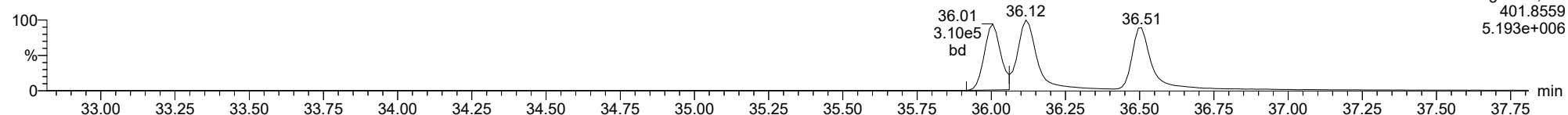
**123478-HxCDD**

23030305



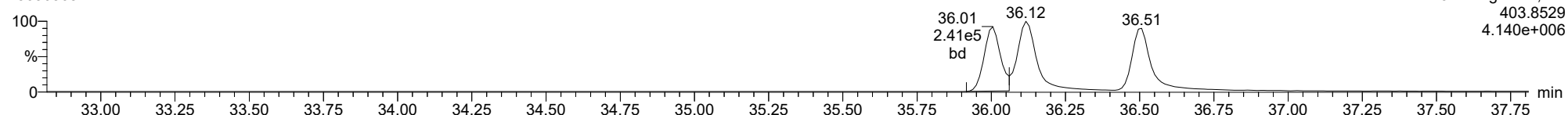
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23030305



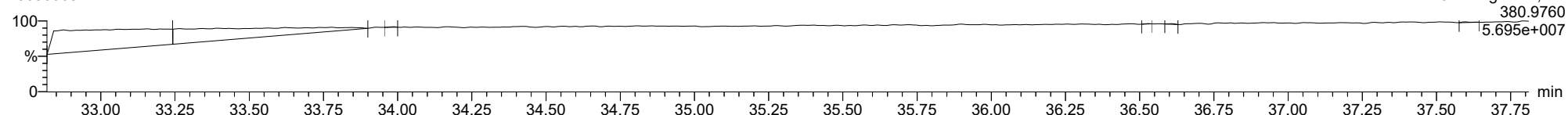
**13C-123478-HxCDD**

23030305



**FUNCTION3 PFK**

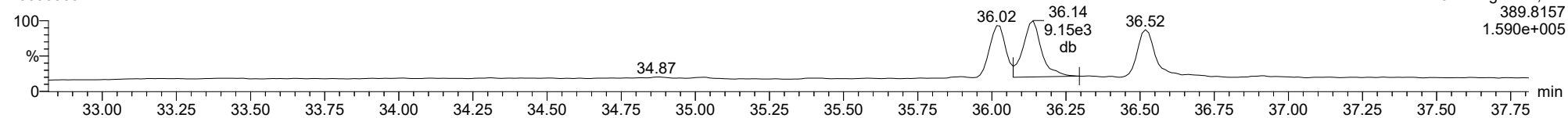
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

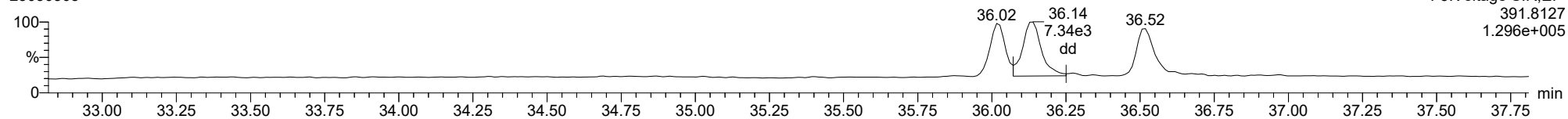
**123678-HxCDD**

23030305



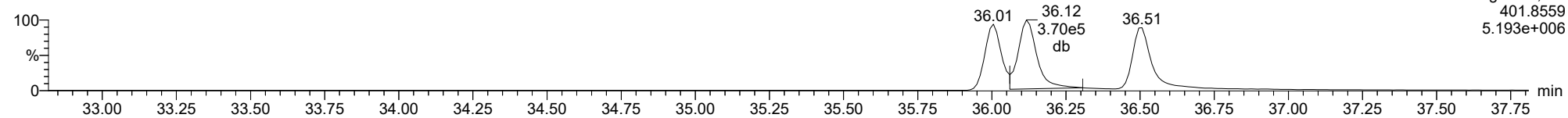
**123678-HxCDD**

23030305



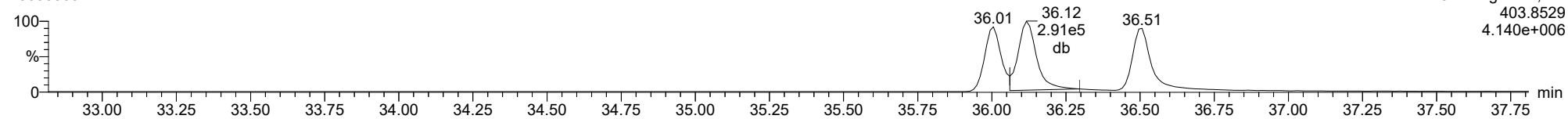
**13C-123678-HxCDD**

23030305



**13C-123678-HxCDD**

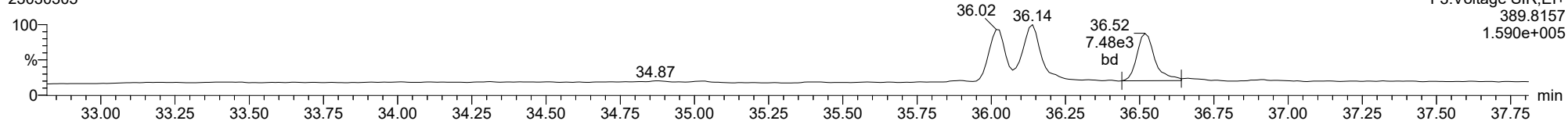
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

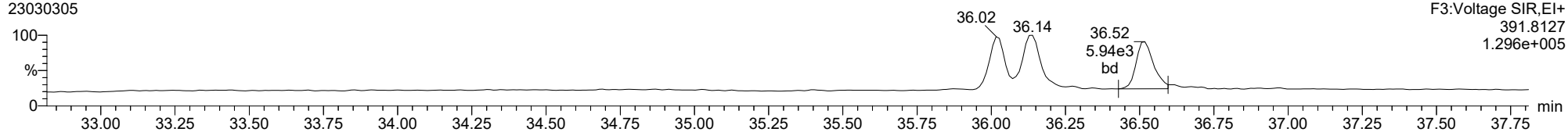
**123789-HxCDD**

23030305



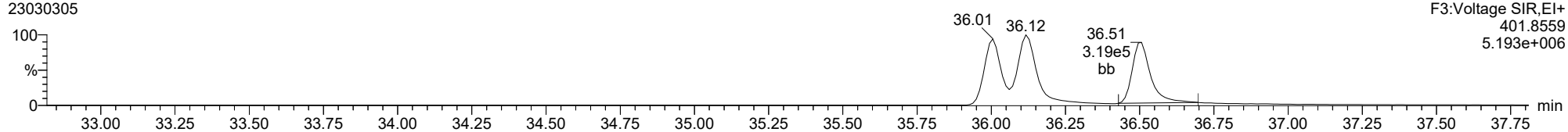
**123789-HxCDD**

23030305



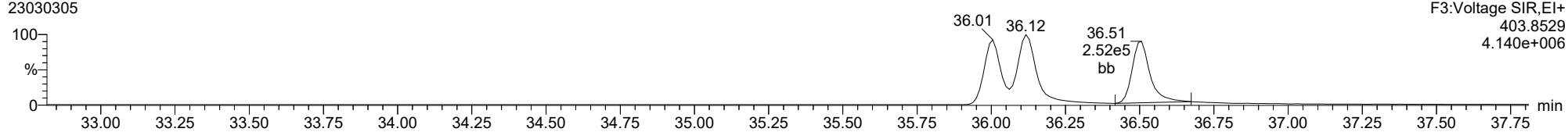
**13C-123789-HxCDD**

23030305



**13C-123789-HxCDD**

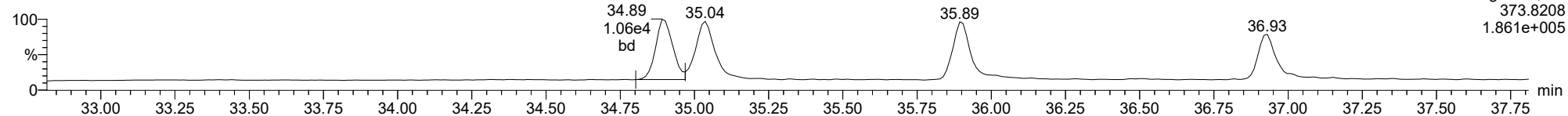
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

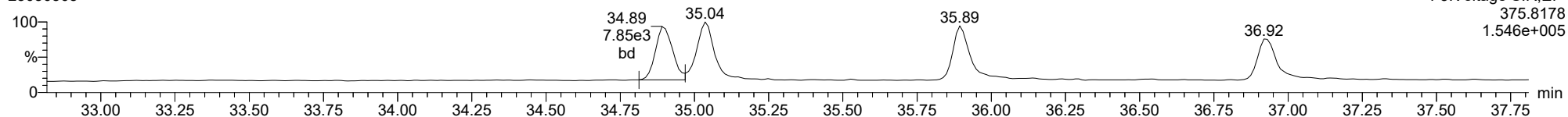
**123478-HxCDF**

23030305



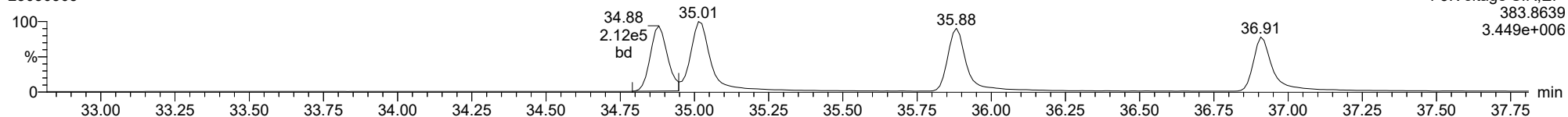
**123478-HxCDF**

23030305



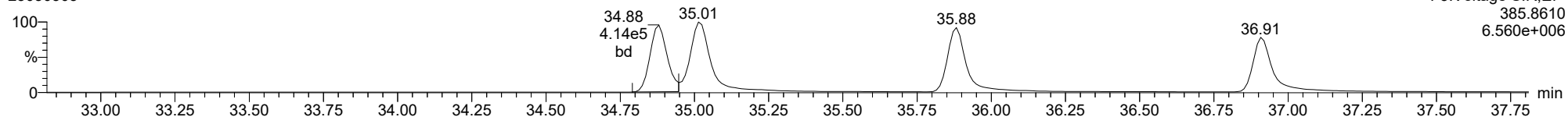
**13C-123478-HxCDF**

23030305



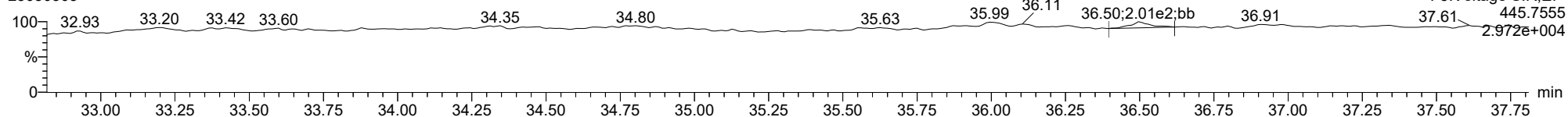
**13C-123478-HxCDF**

23030305



**FUNCTION3 OCDPE**

23030305

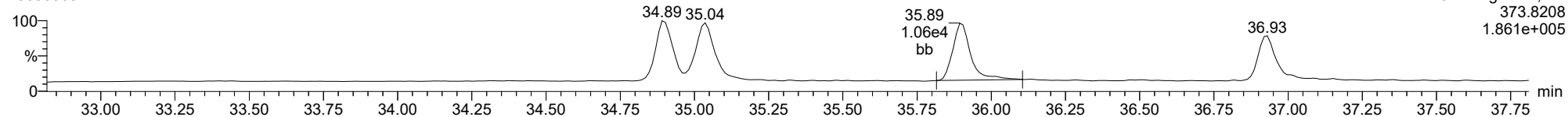




ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

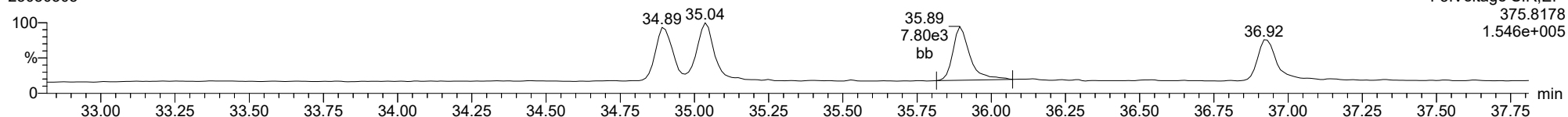
**234678-HxCDF**

23030305



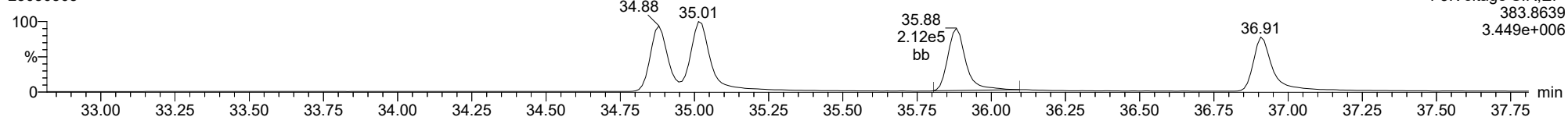
**234678-HxCDF**

23030305



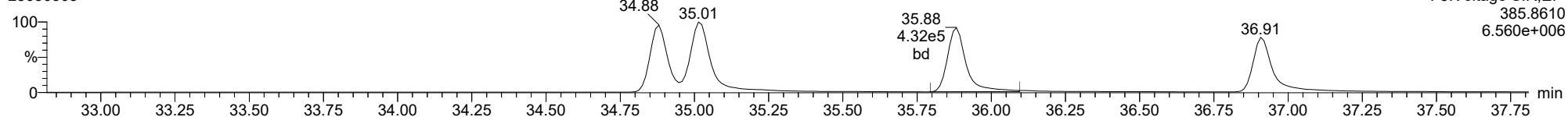
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23030305



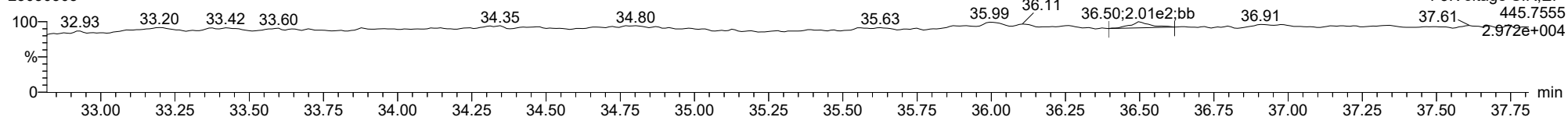
**13C-234678-HxCDF**

23030305



**FUNCTION3 OCDPE**

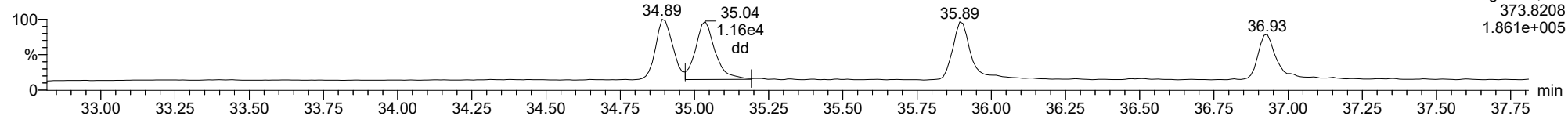
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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

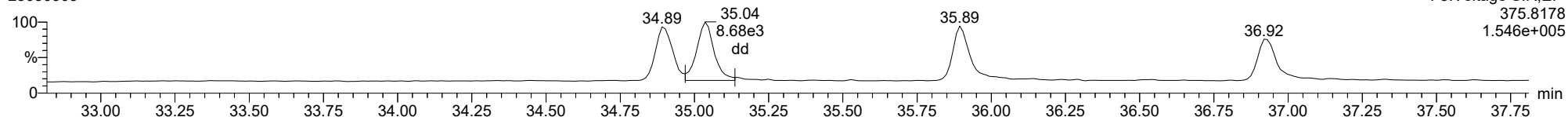
**123678-HxCDF**

23030305



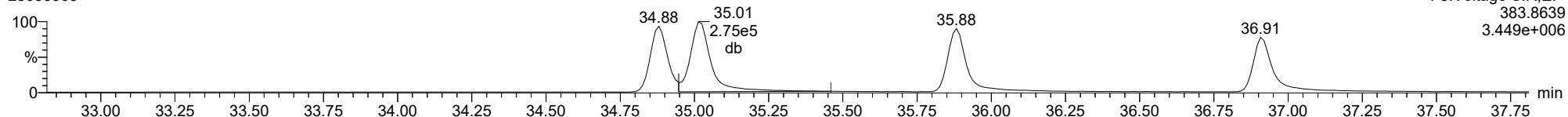
**123678-HxCDF**

23030305



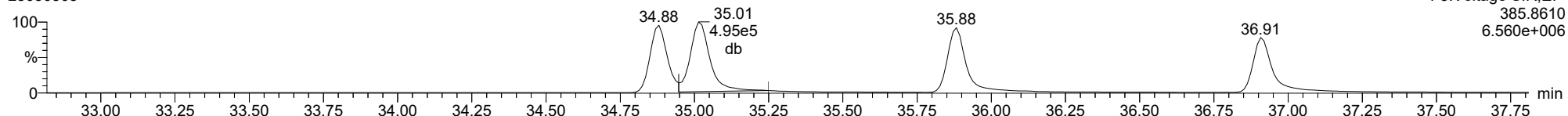
**13C-123678-HxCDF**

23030305



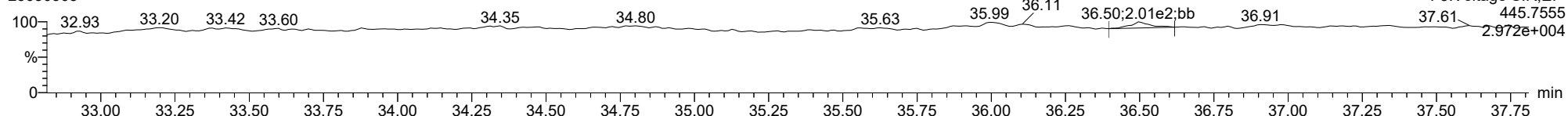
**13C-123678-HxCDF**

23030305



**FUNCTION3 OCDPE**

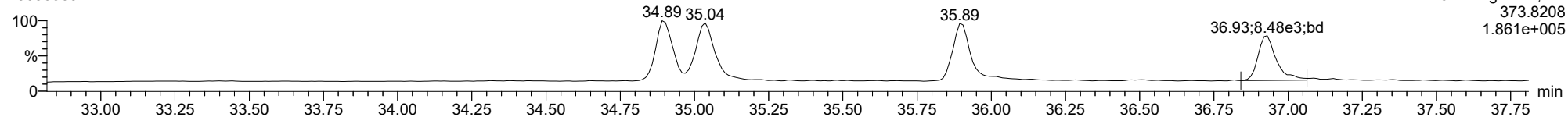
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

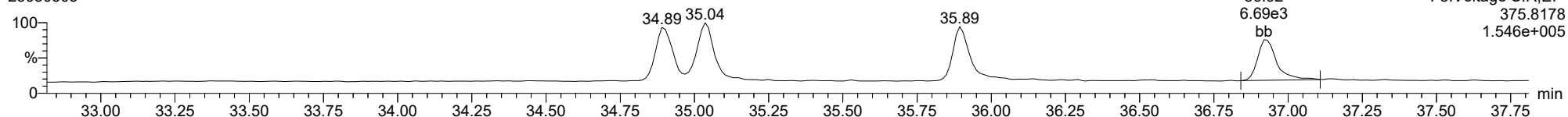
123789-HxCDF

23030305



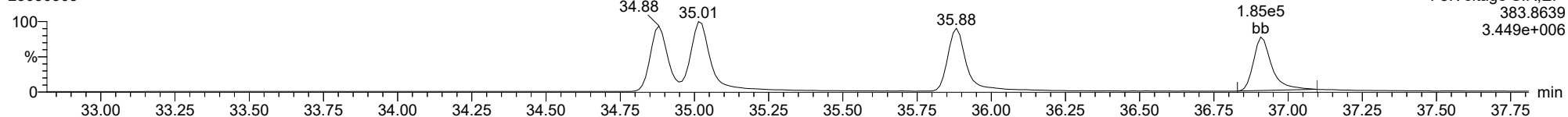
123789-HxCDF

23030305



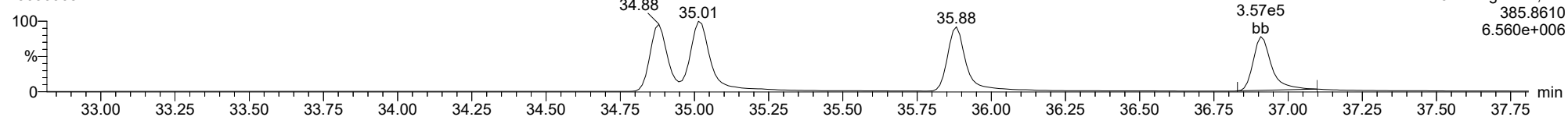
13C-123789-HxCDF

23030305



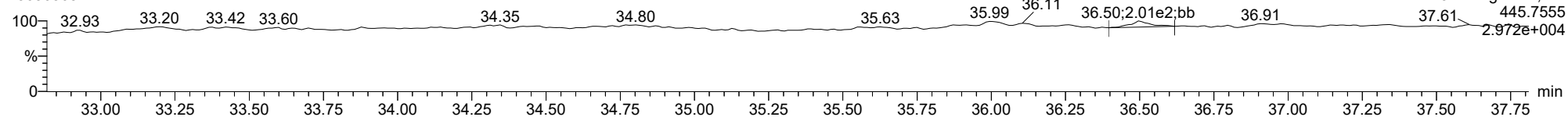
13C-123789-HxCDF

23030305



FUNCTION3 OCDPE

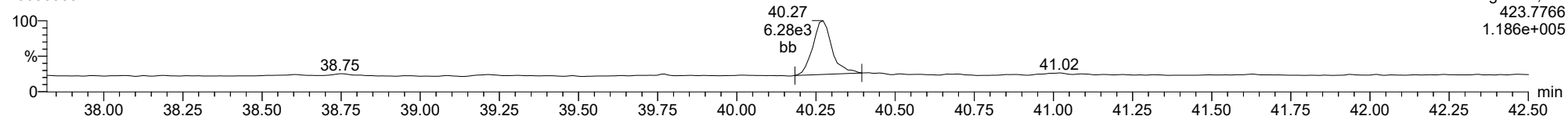
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

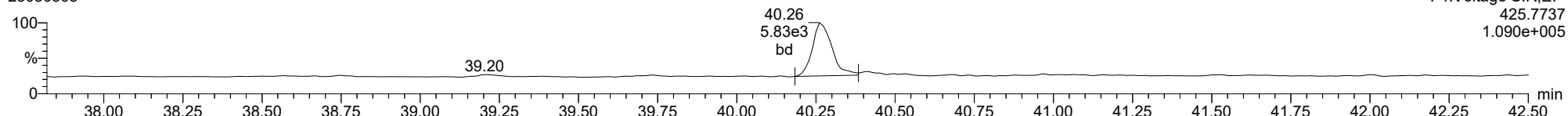
1234678-HpCDD

23030305



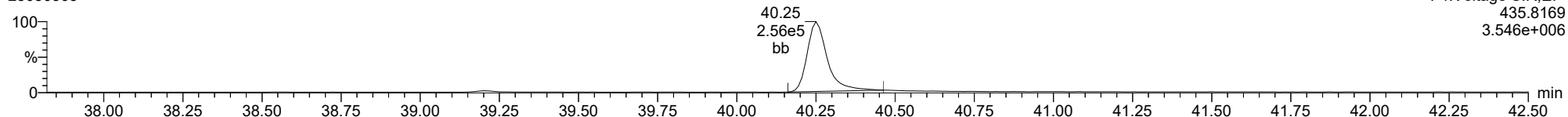
1234678-HpCDD

23030305



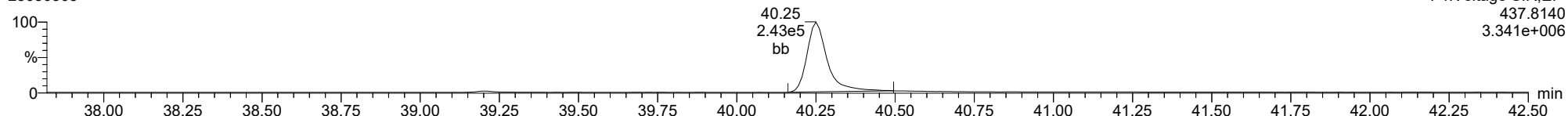
13C-1234678-HpCDD

23030305



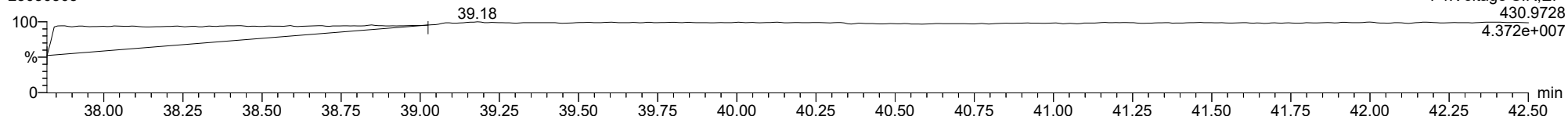
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23030305



FUNCTION4 PFK

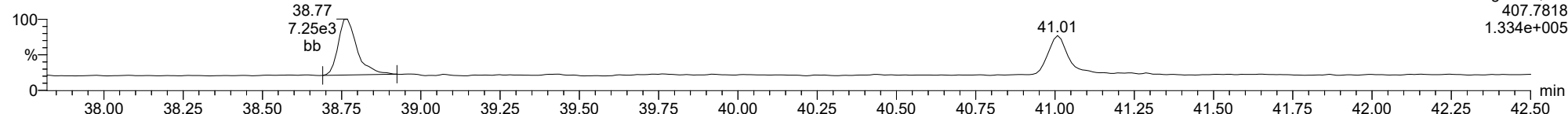
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

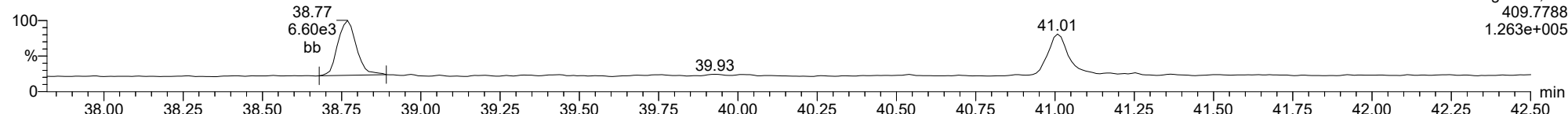
1234678-HpCDF

23030305



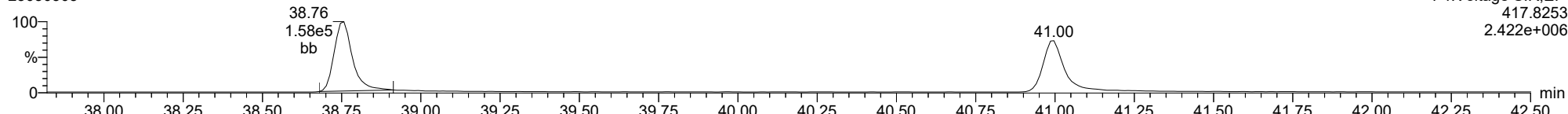
1234678-HpCDF

23030305



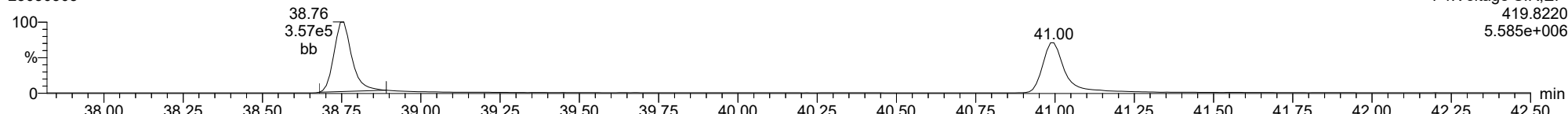
13C-1234678-HpCDF

23030305



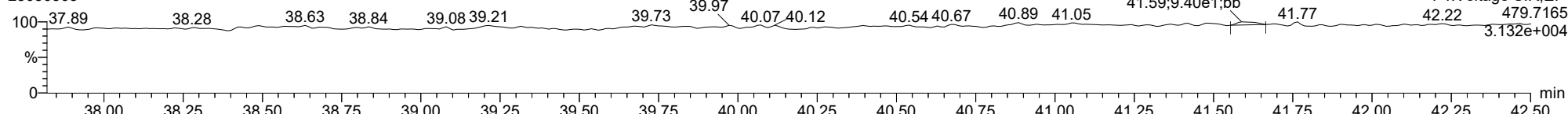
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23030305



FUNCTION4 NCDPE

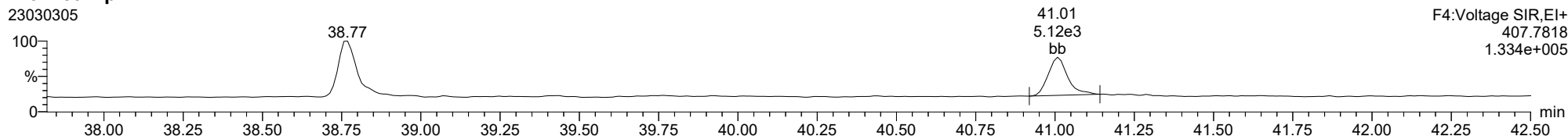
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

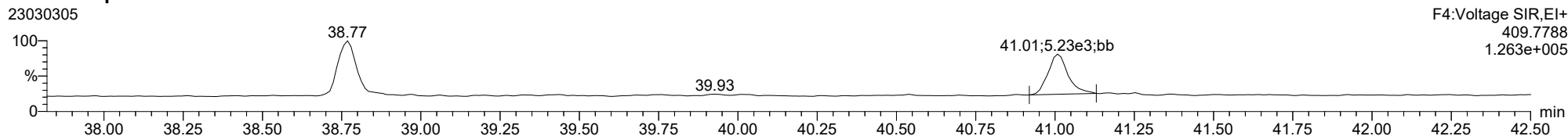
1234789-HpCDF

23030305



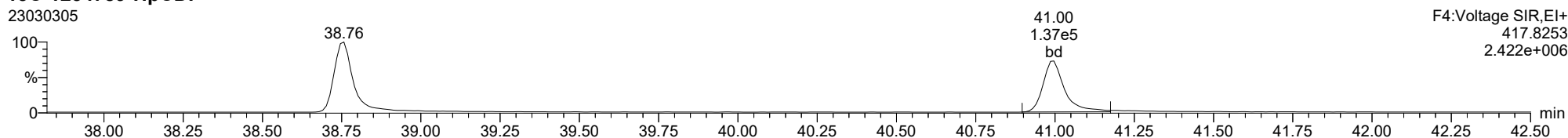
1234789-HpCDF

23030305



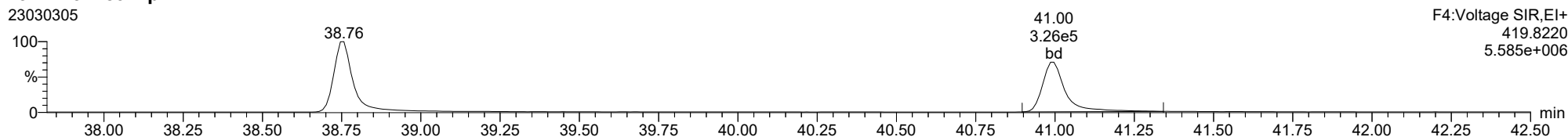
13C-1234789-HpCDF

23030305



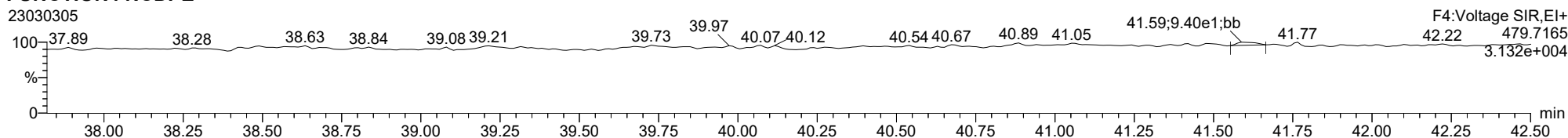
13C-1234789-HpCDF

23030305



FUNCTION4 NCDPE

23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

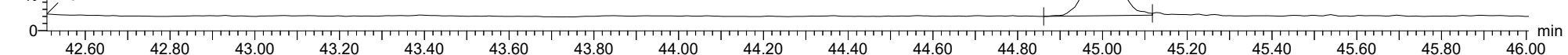
**OCDD**

23030305

42.51  
100  
%  
0

45.00;8.58e3;bd

F5:Voltage SIR,EI+  
457.7377  
1.243e+005



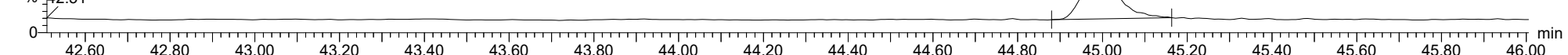
**OCDD**

23030305

42.51  
100  
%  
0

45.00;9.68e3;bb

F5:Voltage SIR,EI+  
459.7348  
1.384e+005



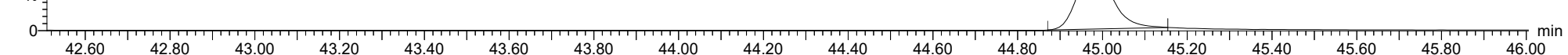
**13C-OCDD**

23030305

42.51  
100  
%  
0

44.98;3.39e5;bb

F5:Voltage SIR,EI+  
469.7779  
3.894e+006



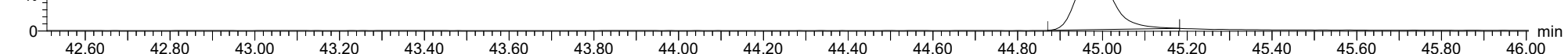
**13C-OCDD**

23030305

42.51  
100  
%  
0

44.98;3.82e5;bb

F5:Voltage SIR,EI+  
471.7750  
4.349e+006

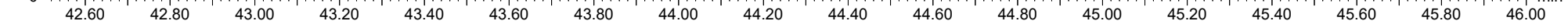


**FUNCTION5 PFK**

23030305

43.52  
100  
%  
0

F5:Voltage SIR,EI+  
480.9696  
2.456e+007



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

**OCDF**

23030305

100  
%  
0

42.51  
42.90

45.24;5.98e3;MM

F5:Voltage SIR,EI+  
441.7428  
9.546e+004

**OCDF**

23030305

100  
%  
0

42.51

45.23;6.80e3;bd

F5:Voltage SIR,EI+  
443.7399  
1.080e+005

45.37

**FUNCTION5 DCDPE**

23030305

100  
%  
0

42.51  
42.84  
43.10  
43.38

44.11 44.30;9.42e1;bb 44.53 44.72;7.35e1;bb

45.03 45.36

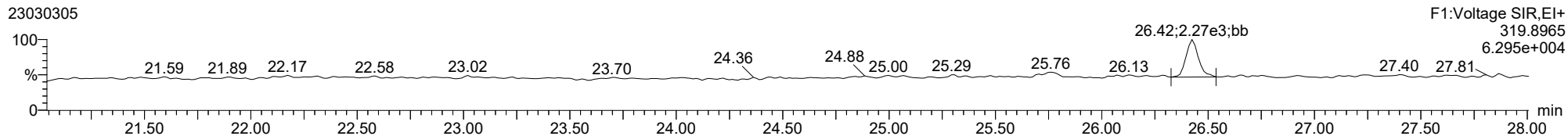
45.69 45.91

F5:Voltage SIR,EI+  
513.6775  
3.020e+004

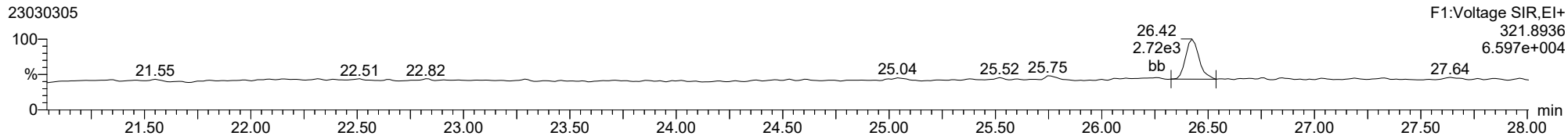


ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

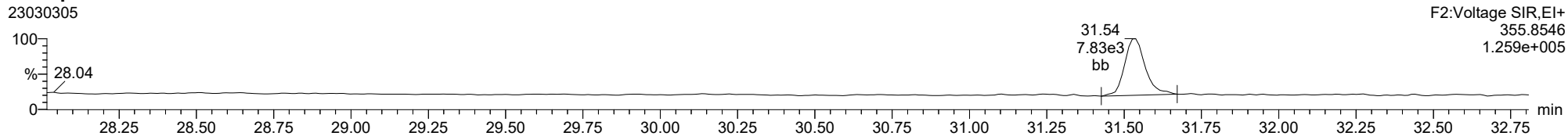
**Total-tetradoxins**



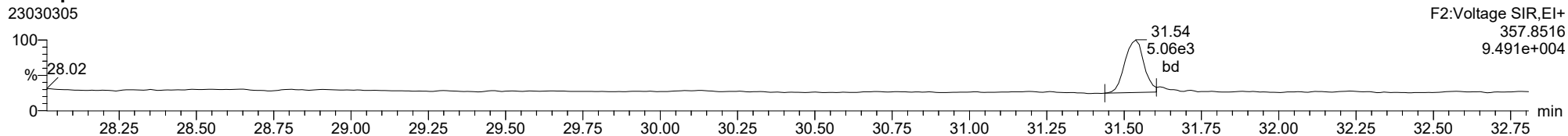
**Total-tetradoxins**



**Total-pentadoxins**



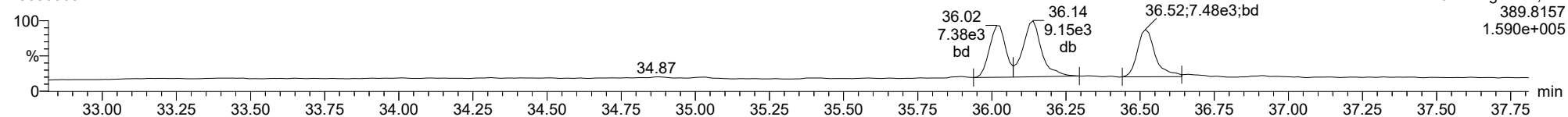
**Total-pentadoxins**



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

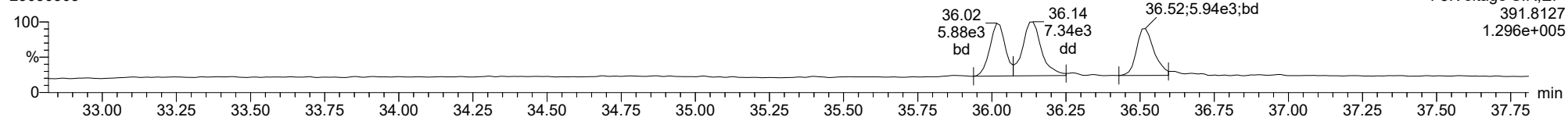
**Total-hexadioxins**

23030305



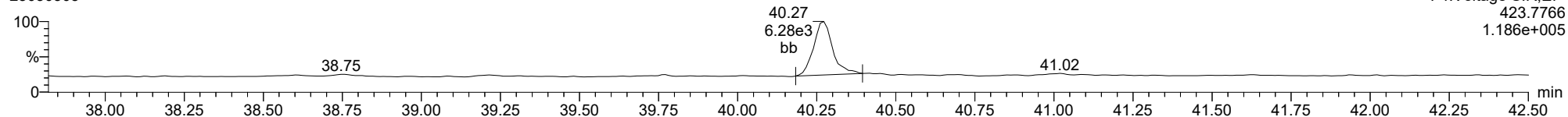
**Total-hexadioxins**

23030305



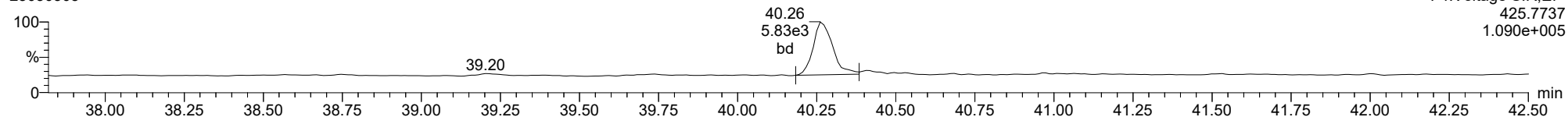
**Total-heptadioxins**

23030305



**Total-heptadioxins**

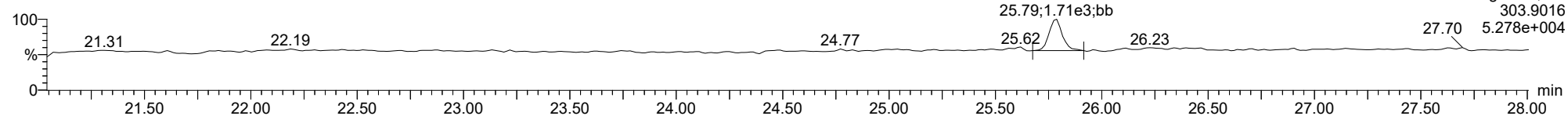
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

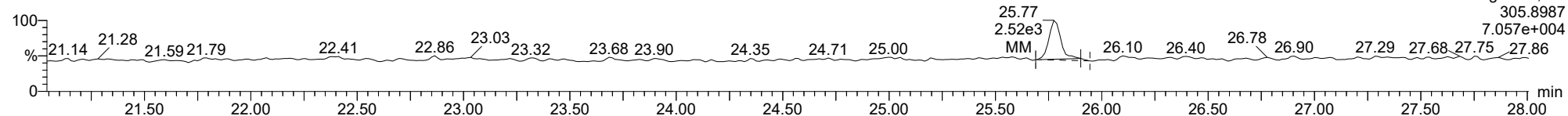
**Total-tetrafurans**

23030305



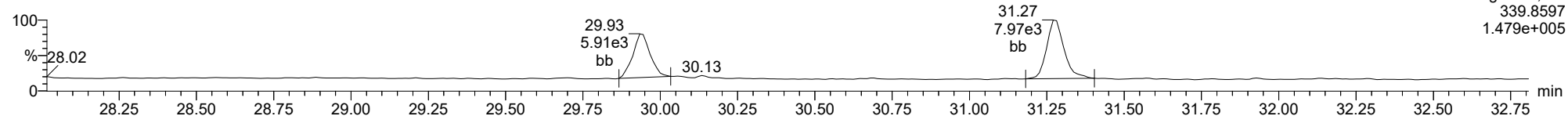
**Total-tetrafurans**

23030305



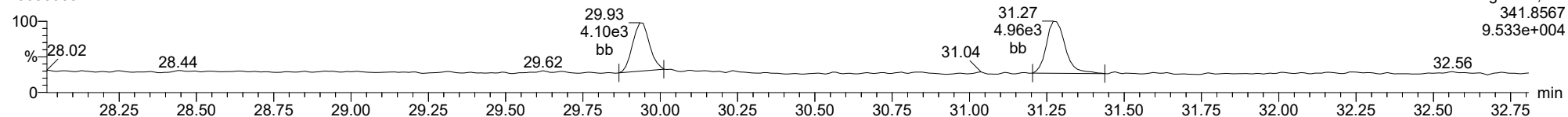
**Total-pentafurans**

23030305



**Total-pentafurans**

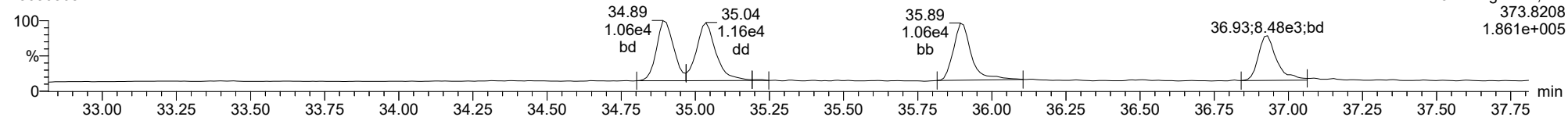
23030305



ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

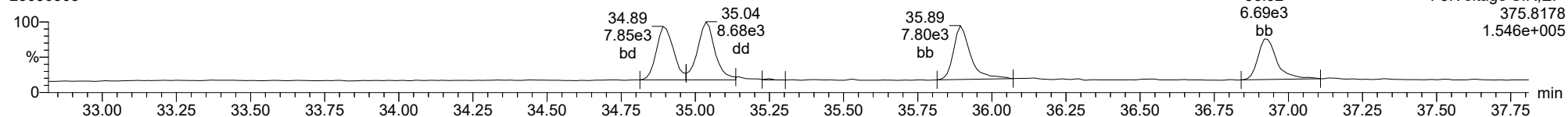
**Total-hexafurans**

23030305



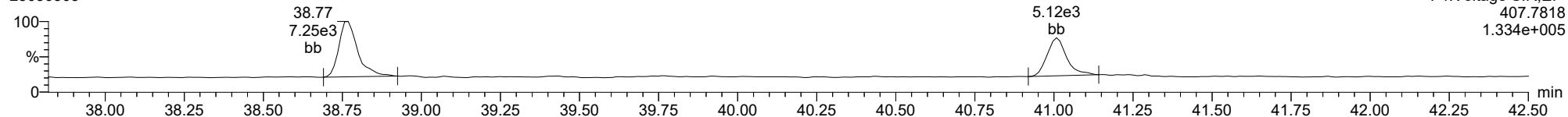
**Total-hexafurans**

23030305



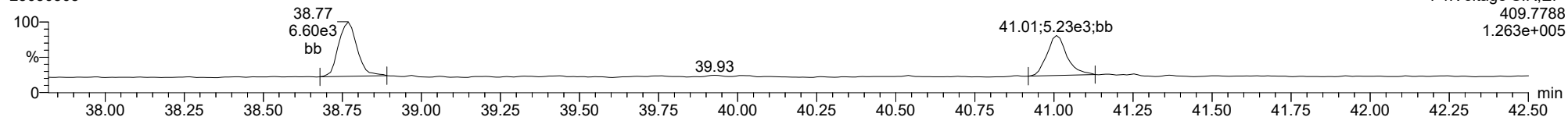
**Total-heptafurans**

23030305



**Total-heptafurans**

23030305



Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:24 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
 Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.789	1.001	8.311e3	1.080e4	0.702	0.769	0.770	1017	2375	1.17e5	1.59e5	114.9	67.2	NO	bd	bb	1.942
12378-PeCDF	29.945	1.001	4.669e4	2.820e4	0.679	1.656	1.550	1114	1452	6.51e5	4.26e5	583.9	293.2	NO	bd	bb	10.465
23478-PeCDF	31.282	1.000	4.676e4	2.892e4	0.786	1.617	1.550	1114	1452	6.63e5	4.21e5	595.0	289.8	NO	bb	bb	10.293
123478-HxCDF	34.903	1.000	5.097e4	3.855e4	1.166	1.322	1.240	1081	974	7.67e5	5.88e5	709.2	604.2	NO	bd	bd	9.861
234678-HxCDF	35.906	1.000	4.287e4	3.364e4	1.140	1.274	1.240	1081	974	6.16e5	4.95e5	570.0	508.0	NO	bd	bb	10.523
123678-HxCDF	35.048	1.001	5.830e4	4.380e4	1.091	1.331	1.240	1081	974	7.78e5	6.16e5	719.4	632.0	NO	dd	db	10.775
123789-HxCDF	36.942	1.001	3.050e4	2.273e4	1.137	1.342	1.240	1081	974	4.14e5	3.24e5	383.3	332.2	NO	bb	bb	9.945
1234678-HpCDF	38.780	1.001	2.871e4	2.660e4	1.003	1.079	1.050	1234	1299	4.33e5	4.29e5	350.5	330.3	NO	bd	bb	10.087
1234789-HpCDF	41.020	1.000	2.198e4	2.032e4	0.953	1.082	1.050	1234	1299	3.09e5	2.76e5	250.5	212.3	NO	bb	bb	10.556
OCDF	45.247	1.006	3.160e4	3.327e4	0.778	0.950	0.890	832	1108	3.53e5	3.88e5	424.8	350.5	NO	bd	bb	19.690
2378-TCDD	26.438	1.001	9.033e3	1.299e4	1.149	0.696	0.770	1078	937	1.34e5	1.84e5	124.1	196.6	NO	bb	bb	2.068
12378-PeCDD	31.538	1.000	4.287e4	2.877e4	1.022	1.490	1.550	1012	882	6.26e5	3.88e5	618.4	440.6	NO	bb	bb	9.981
123478-HxCDD	36.028	1.001	3.011e4	2.566e4	0.996	1.173	1.240	1087	1355	4.81e5	4.17e5	442.1	307.5	NO	bd	bd	9.781
123678-HxCDD	36.140	1.000	3.660e4	2.810e4	1.001	1.303	1.240	1087	1355	5.13e5	3.98e5	471.9	293.4	NO	dd	db	9.830
123789-HxCDD	36.530	1.011	2.694e4	2.285e4	0.907	1.179	1.240	1087	1355	3.87e5	3.22e5	355.7	237.4	NO	bb	bb	8.921
1234678-HpCDD	40.273	1.000	2.448e4	2.664e4	1.039	0.919	1.050	853	881	3.43e5	3.58e5	402.1	405.9	NO	bb	bd	10.011
OCDD	45.009	1.000	3.531e4	4.015e4	0.920	0.879	0.890	1050	1012	4.08e5	4.99e5	388.3	492.6	NO	bb	bb	19.363
13C-2378-TCDF	25.774	1.007	6.035e5	7.993e5	1.620	0.755	0.770	2457	1835	8.64e6	1.14e7	3516.1	6186.3	NO	bb	bb	103.115
13C-12378-PeCDF	29.923	1.169	6.526e5	4.010e5	1.240	1.628	1.550	3002	2090	8.73e6	5.82e6	2907.1	2783.7	NO	bb	bb	101.148
13C-23478-PeCDF	31.271	1.221	5.554e5	3.799e5	1.118	1.462	1.550	3002	2090	8.01e6	5.41e6	2667.8	2586.4	NO	bb	bb	99.644
13C-123478-HxCDF	34.892	0.956	2.641e5	5.144e5	1.168	0.513	0.510	1857	2488	3.90e6	7.62e6	2100.8	3063.0	NO	bd	bd	129.584
13C-123678-HxCDF	35.026	0.959	2.932e5	5.755e5	1.386	0.510	0.510	1857	2488	4.18e6	8.13e6	2249.4	3269.5	NO	db	db	121.832
13C-234678-HxCDF	35.895	0.983	2.180e5	4.199e5	1.129	0.519	0.510	1857	2488	3.14e6	6.08e6	1689.2	2442.9	NO	bb	bb	109.838
13C-123789-HxCDF	36.920	1.011	1.570e5	3.137e5	0.932	0.501	0.510	1857	2488	2.29e6	4.45e6	1232.1	1790.1	NO	bb	bb	98.225
13C-1234678-HpCDF	38.758	1.062	1.644e5	3.823e5	0.895	0.430	0.440	2012	3375	2.57e6	5.95e6	1277.0	1763.6	NO	bb	bb	118.766
13C-1234789-HpCDF	40.998	1.123	1.271e5	2.934e5	0.770	0.433	0.440	2012	3375	1.71e6	4.02e6	850.7	1191.4	NO	bb	bb	106.228
13C-1234-TCDD	25.605	0.000	3.763e5	4.634e5	1.000	0.812	0.770	2552	2183	5.75e6	7.05e6	2254.8	3231.1	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	4.085e5	5.183e5	1.152	0.788	0.770	2552	2183	5.98e6	7.56e6	2342.4	3461.2	NO	bb	bb	95.779
13C-12378-PeCDD	31.527	1.231	4.337e5	2.688e5	0.829	1.614	1.550	1077	1542	6.15e6	3.74e6	5715.6	2425.2	NO	bb	bb	100.933
13C-123478-HxCDD	36.006	0.986	3.223e5	2.505e5	0.995	1.287	1.240	2237	1883	4.87e6	3.76e6	2175.2	1999.6	NO	bd	bd	111.924
13C-123678-HxCDD	36.129	0.990	3.608e5	2.967e5	1.157	1.216	1.240	2237	1883	5.10e6	4.02e6	2277.5	2137.4	NO	db	db	110.547
13C-1234678-HpCDD	40.262	1.103	2.573e5	2.341e5	0.840	1.099	1.050	2349	1481	3.41e6	3.22e6	1450.8	2172.3	NO	bd	bb	113.737
13C-OCDD	44.991	1.232	4.017e5	4.455e5	0.767	0.902	0.890	2278	1800	4.53e6	5.05e6	1990.6	2807.7	NO	bb	bb	214.651
13C-123789-HxCDD	36.507	0.000	2.902e5	2.240e5	1.000	1.296	1.240	2237	1883	4.20e6	3.27e6	1878.6	1737.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.032	1.977e4		1.288			2484		2.93e5		117.9			bb		1.828

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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1017	2375								
1289-TCDF					0.678		0.770	1017	2375								
13468-PECDF					1.246		1.550	633	1159								
12389-PECDF					0.496		1.550	1114	1452								
123468-HXCDF					1.169		1.240	1081	974								
1368-TCDD					1.015		0.770	1078	937								
1289-TCDD					0.909		0.770	1078	937								
12479-PECDD					2.301		1.550	1012	882								
12389-PECDD					1.184		1.550	1012	882								
124679-HXCDD					1.115		1.240	1087	1355								
1234679-HPCDD					1.137		1.050	853	881								
Total-tetrafurans			8.311e3		0.727			1017		1.17e5							1.942
Total-penta1			0.000e0					633		0.00e0							
Total-pentafurans			9.345e4		0.654			1114		1.31e6							20.758
Total-hexafurans			1.826e5		1.141			1081		2.58e6							41.105
Total-heptafurans			5.070e4		0.978			1234		7.42e5							20.643
Total-Furans			3.667e5		0.922			1017		5.10e6							104.140
Total-tetradoxins			9.033e3		1.024			1078		1.34e5							2.068
Total-pentadoxins			4.287e4		1.502			1012		6.26e5							9.981
Total-hexadoxins			9.364e4		1.005			1087		1.38e6							28.532
Total-heptadoxins			2.448e4		1.088			853		3.43e5							10.011
Total-Dioxins			2.053e5		1.130			1078		2.89e6							69.955
Total-TEQ			5.720e5					1078		7.99e6							174.095
FUNCTION1 PFK			1.995e6					567717		7.69e6							
FUNCTION2 PFK			1.258e5					282093		4.74e6							0.000
FUNCTION3 PFK			4.711e7					382868		3.34e7							0.000
FUNCTION4 PFK			2.092e7					278389		1.32e7							
FUNCTION5 PFK			6.777e4					239180		2.68e6							
FUNCTION1 HXCD...			0.000e0					613		0.00e0							
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.408e2					965		2.85e3							0.000
FUNCTION3 OCDPE			0.000e0					571		0.00e0							
FUNCTION4 NCDPE			3.810e2					638		4.39e3							0.000
FUNCTION5 DCDPE			0.000e0					603		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

Calibration: T:\Autospec\Curves\230303\CIH.cdb 06 Mar 2023 10:57:27

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
2	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
3	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
4	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
2	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465
3	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942
4	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
5	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
6	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
7	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861
8	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
9	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087
10	OCDF	45.25	3.160e4	3.327e4	0.778	0.95	0.89	424.8	YES	NO	bd	bb	19.690

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
2	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
3	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981
2	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068
3	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
4	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
5	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781
6	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011
7	OCDD	45.01	3.531e4	4.015e4	0.920	0.88	0.89	388.3	YES	NO	bb	bb	19.363

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465
3	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942
4	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
5	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
6	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
7	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861
8	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
9	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087
10	OCDF	45.25	3.160e4	3.327e4	0.778	0.95	0.89	424.8	YES	NO	bd	bb	19.690
11	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981
12	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068
13	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
14	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
15	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781
16	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011
17	OCDD	45.01	3.531e4	4.015e4	0.920	0.88	0.89	388.3	YES	NO	bb	bb	19.363

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	25.73	8.333e5					6.7	YES		bb		
2	FUNCTION1 PFK	21.10	1.162e6					6.9	YES		bb		

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**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.61	1.110e4					1.3	NO		bb		0.000
2	FUNCTION2 PFK	28.31	1.183e4					1.5	NO		bb		0.000
3	FUNCTION2 PFK	31.85	7.066e3					1.3	NO		bb		0.000
4	FUNCTION2 PFK	31.75	1.168e4					1.4	NO		bb		0.000
5	FUNCTION2 PFK	30.95	1.613e4					2.1	NO		bb		0.000
6	FUNCTION2 PFK	30.06	7.806e3					1.3	NO		bb		0.000
7	FUNCTION2 PFK	29.77	1.198e4					1.4	NO		bb		0.000
8	FUNCTION2 PFK	29.47	1.476e4					2.1	NO		bb		0.000
9	FUNCTION2 PFK	29.28	1.360e4					2.0	NO		db		0.000
10	FUNCTION2 PFK	29.22	1.980e4					2.4	NO		bd		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.30	3.856e7					44.6	YES		db		0.000
2	FUNCTION3 PFK	33.18	8.558e6					42.7	YES		bd		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.24	1.285e7					8.2	YES		db		
2	FUNCTION4 PFK	38.41	8.070e6					39.3	YES		bd		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.68	1.647e4					1.8	NO		bb		
2	FUNCTION5 PFK	45.75	3.282e3					1.0	NO		bb		
3	FUNCTION5 PFK	45.28	6.957e3					1.1	NO		bb		
4	FUNCTION5 PFK	44.90	6.364e3					1.0	NO		bb		
5	FUNCTION5 PFK	44.84	1.531e3					0.5	NO		bb		
6	FUNCTION5 PFK	44.40	6.282e3					1.0	NO		bb		
7	FUNCTION5 PFK	44.21	4.626e3					1.1	NO		bb		
8	FUNCTION5 PFK	44.03	7.842e3					1.2	NO		bb		
9	FUNCTION5 PFK	43.96	6.415e3					1.4	NO		bb		
10	FUNCTION5 PFK	43.84	7.992e3					1.2	NO		bb		

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.54	1.408e2					3.0	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.65	1.069e2					1.9	NO		bb		0.000
2	FUNCTION4 NCDPE	40.25	1.358e2					2.2	NO		bb		0.000
3	FUNCTION4 NCDPE	41.02	1.383e2					2.8	NO		bb		0.000

**ETHERS6**

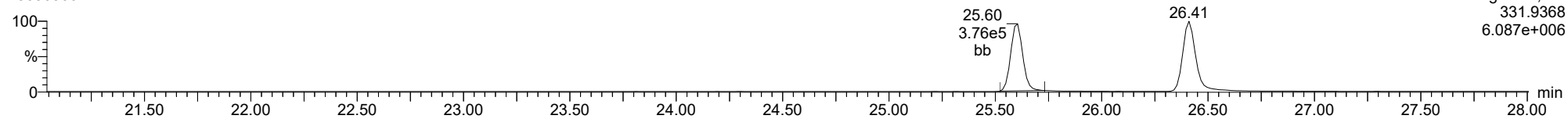
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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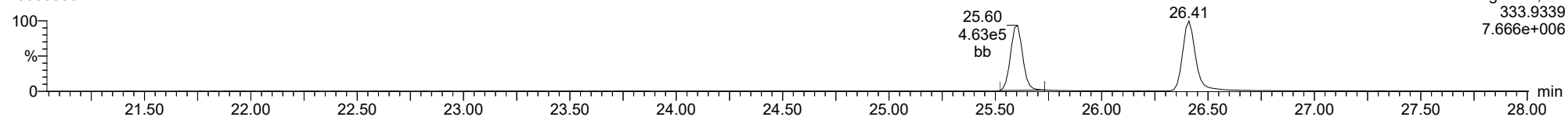
**13C-1234-TCDD**

23030306



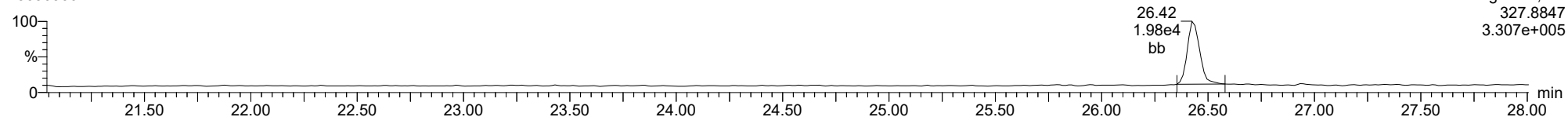
**13C-1234-TCDD**

23030306



**37CL-2378-TCDD**

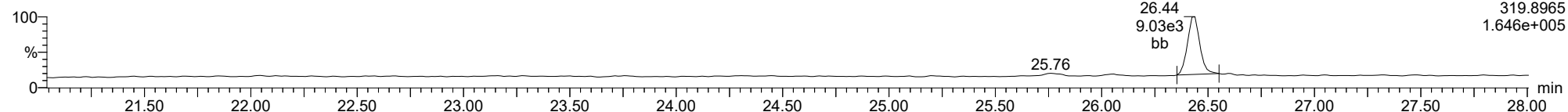
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

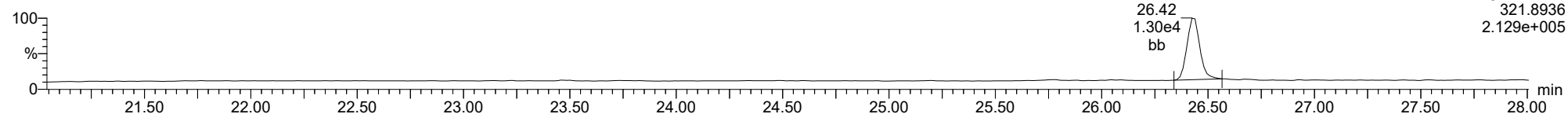
**2378-TCDD**

23030306



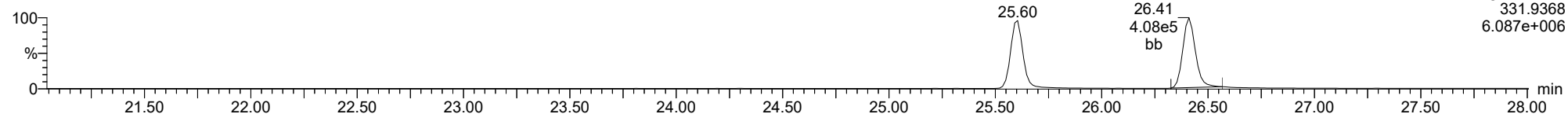
**2378-TCDD**

23030306



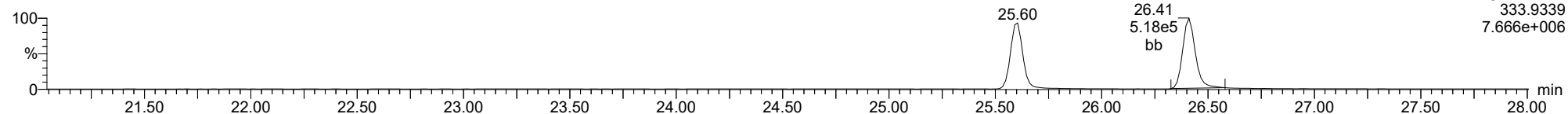
**13C-2378-TCDD**

23030306



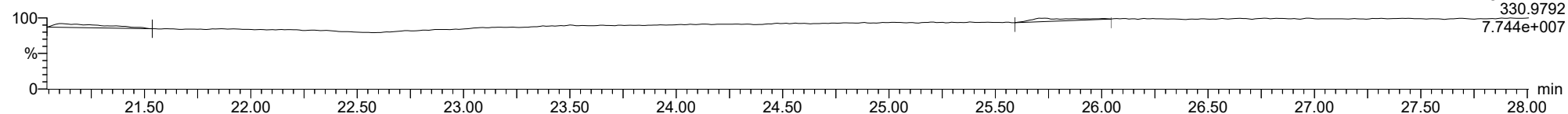
**13C-2378-TCDD**

23030306



**FUNCTION1 PFK**

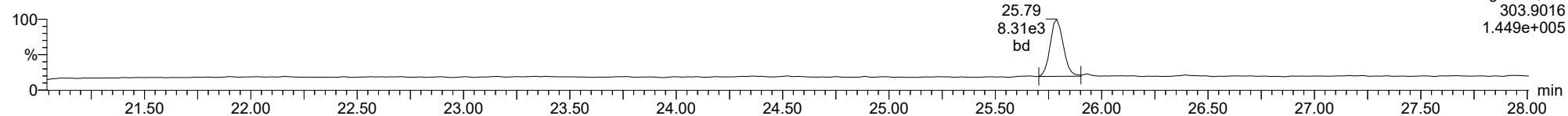
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

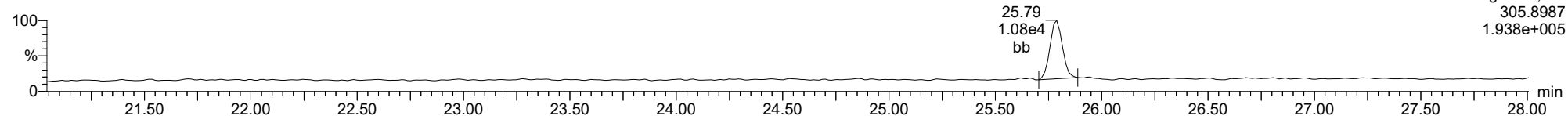
**2378-TCDF**

23030306



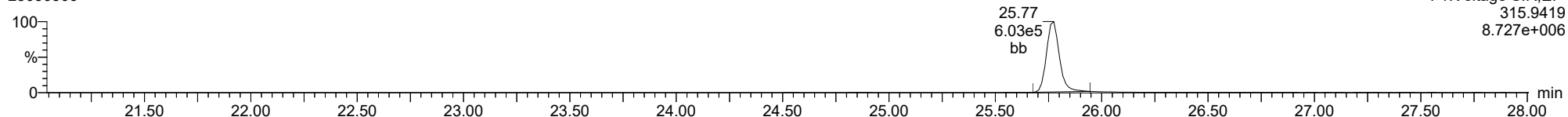
**2378-TCDF**

23030306



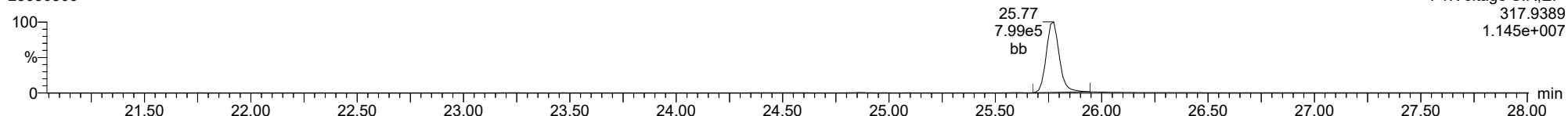
**13C-2378-TCDF**

23030306



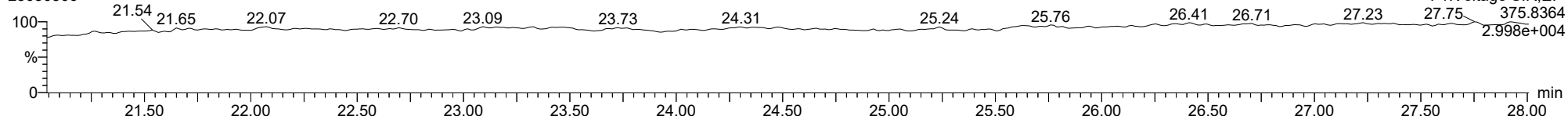
**13C-2378-TCDF**

23030306



**FUNCTION1 HXCDFE**

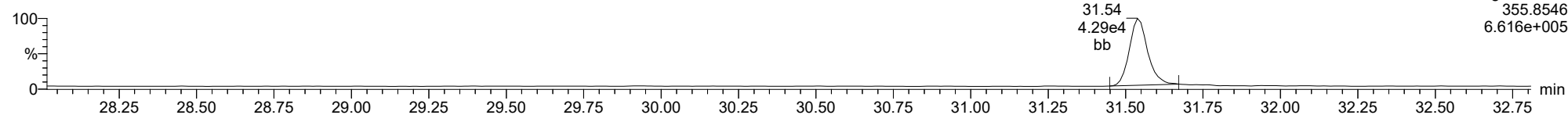
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**12378-PeCDD**

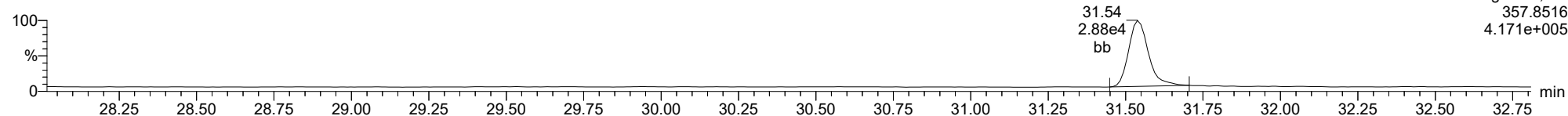
23030306



F2:Voltage SIR,EI+  
355.8546  
6.616e+005

**12378-PeCDD**

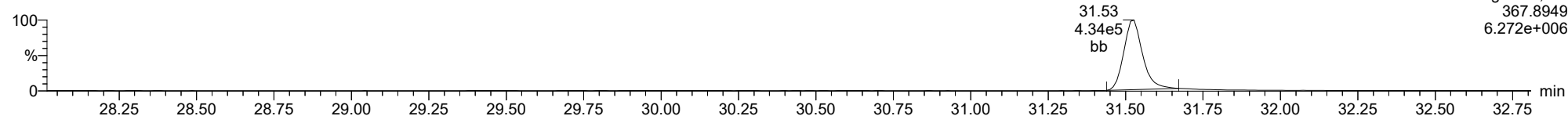
23030306



F2:Voltage SIR,EI+  
357.8516  
4.171e+005

**13C-12378-PeCDD**

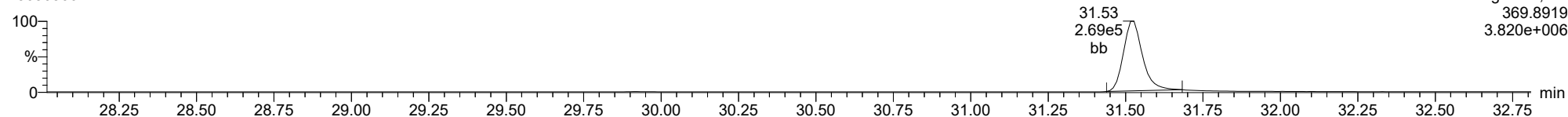
23030306



F2:Voltage SIR,EI+  
367.8949  
6.272e+006

**13C-12378-PeCDD**

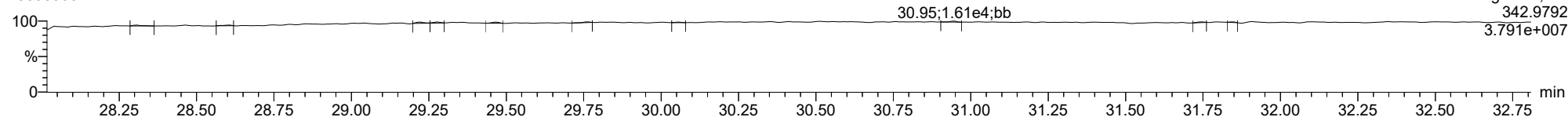
23030306



F2:Voltage SIR,EI+  
369.8919  
3.820e+006

**FUNCTION2 PFK**

23030306

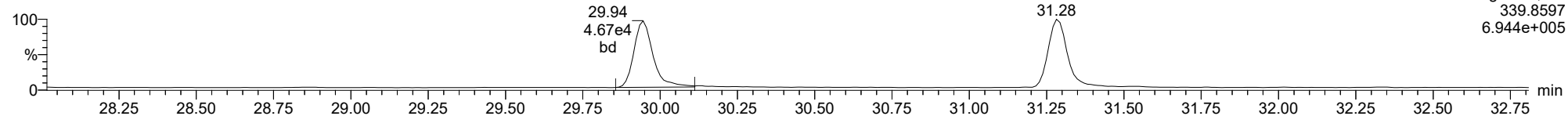


F2:Voltage SIR,EI+  
342.9792  
3.791e+007

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**12378-PeCDF**

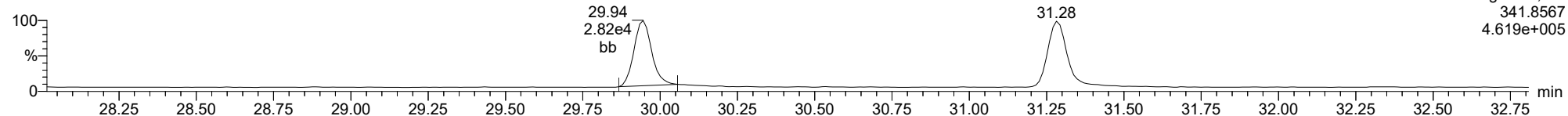
23030306



F2:Voltage SIR,EI+  
339.8597  
6.944e+005

**12378-PeCDF**

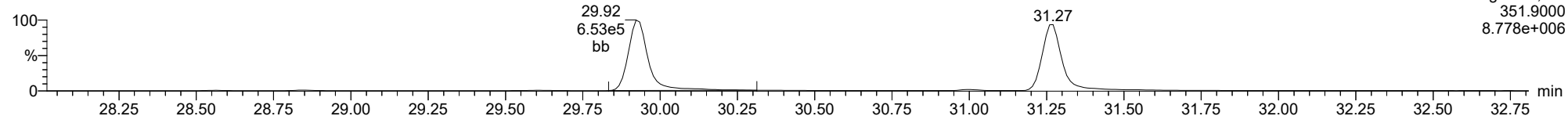
23030306



F2:Voltage SIR,EI+  
341.8567  
4.619e+005

**13C-12378-PeCDF**

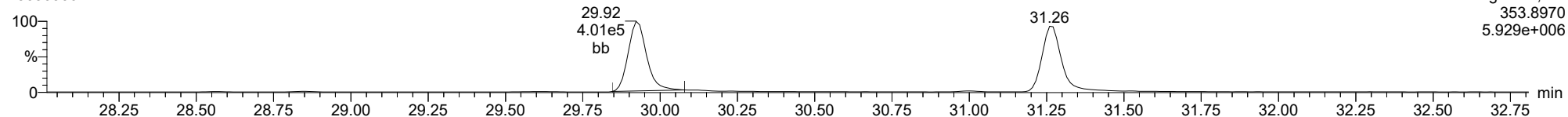
23030306



F2:Voltage SIR,EI+  
351.9000  
8.778e+006

**13C-12378-PeCDF**

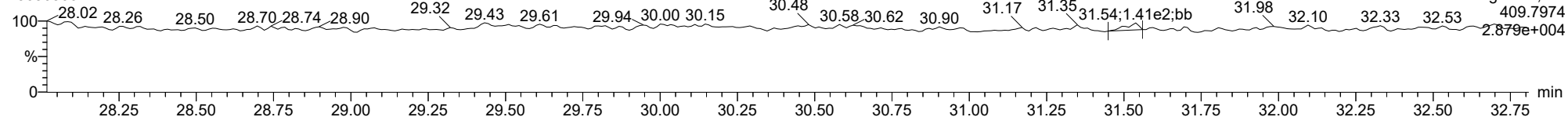
23030306



F2:Voltage SIR,EI+  
353.8970  
5.929e+006

**FUNCTION2 HPCDPE**

23030306



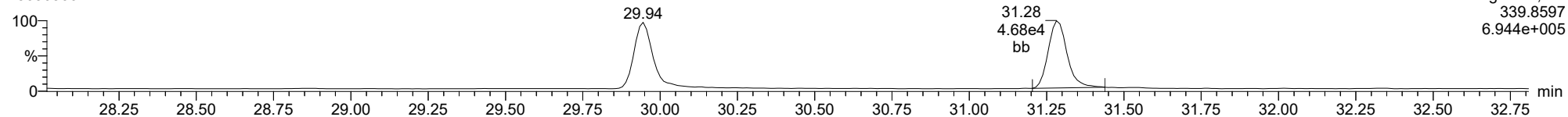
F2:Voltage SIR,EI+  
409.7974  
2.879e+004



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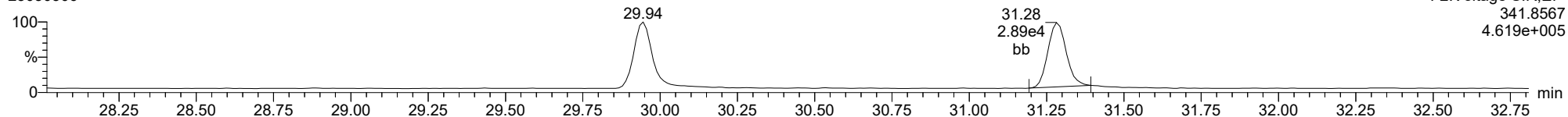
**23478-PeCDF**

23030306



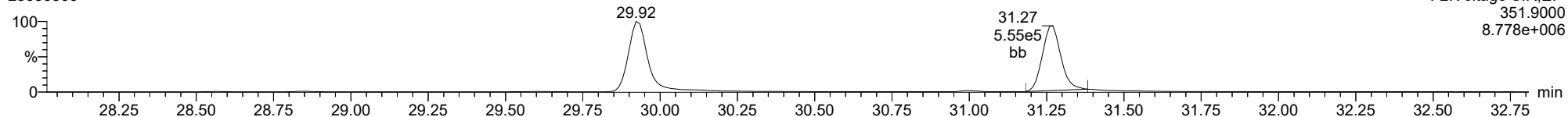
**23478-PeCDF**

23030306



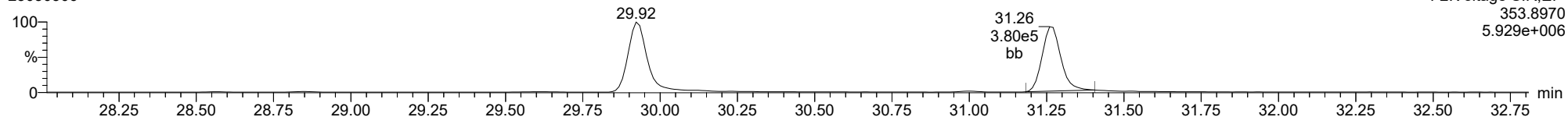
**13C-23478-PeCDF**

23030306



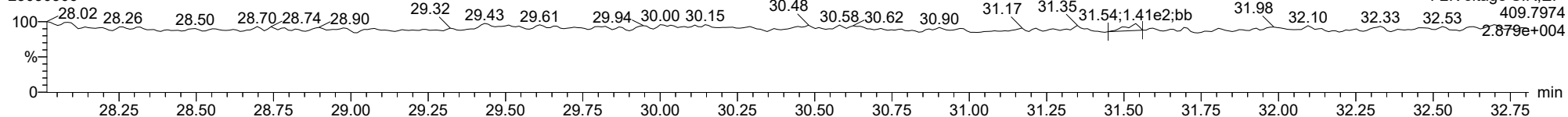
**13C-23478-PeCDF**

23030306



**FUNCTION2 HPCDPE**

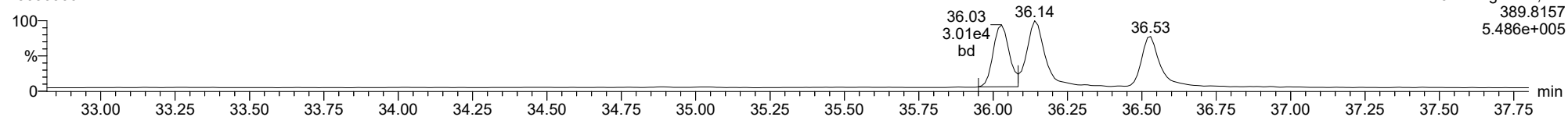
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

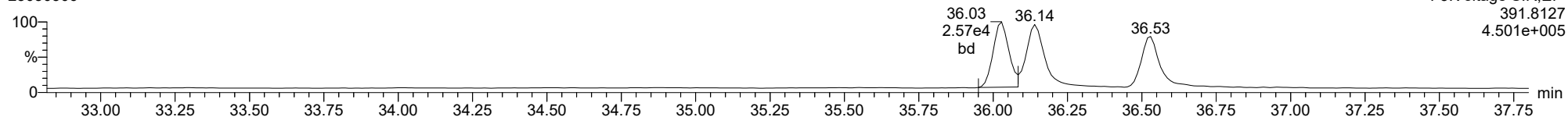
**123478-HxCDD**

23030306



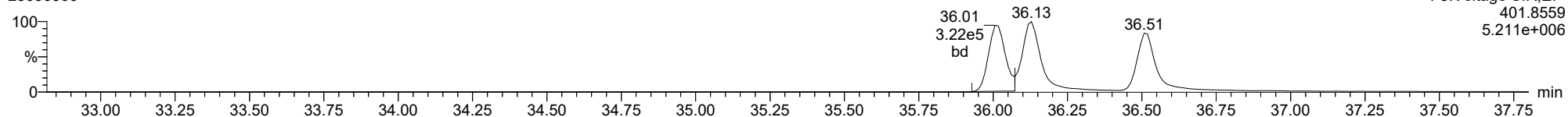
**123478-HxCDD**

23030306



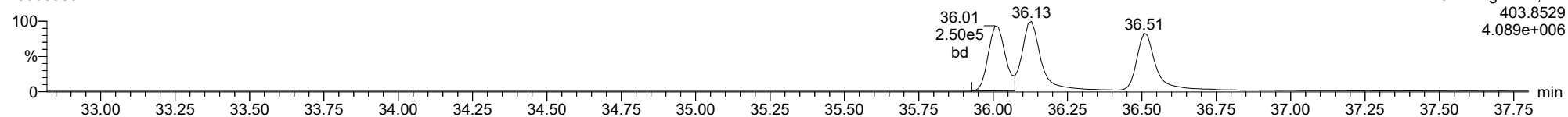
**13C-123478-HxCDD**

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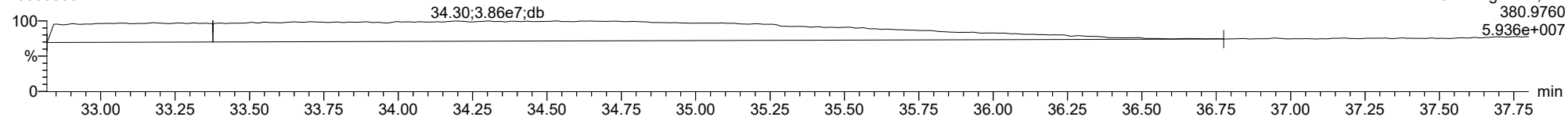
**13C-123478-HxCDD**

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**FUNCTION3 PFK**

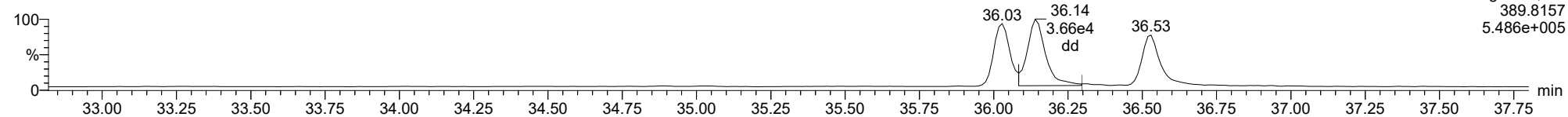
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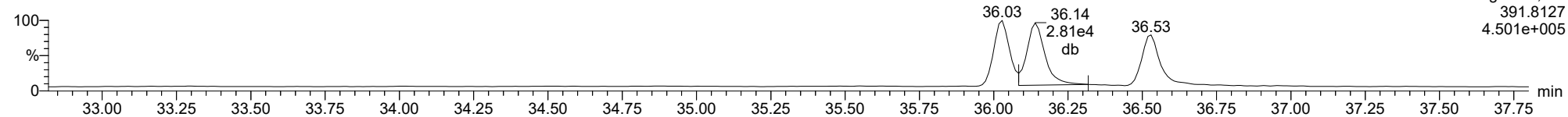
**123678-HxCDD**

23030306



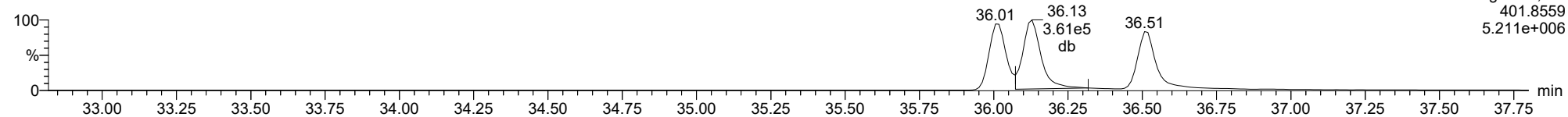
**123678-HxCDD**

23030306



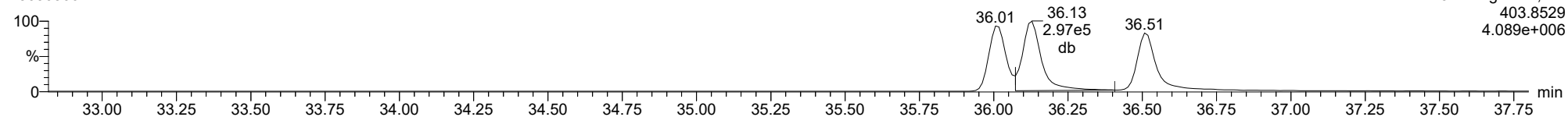
**13C-123678-HxCDD**

23030306



**13C-123678-HxCDD**

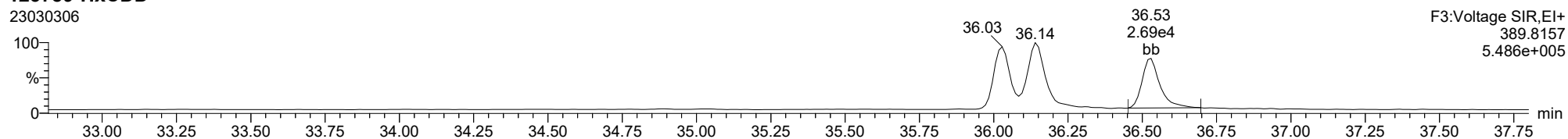
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**123789-HxCDD**

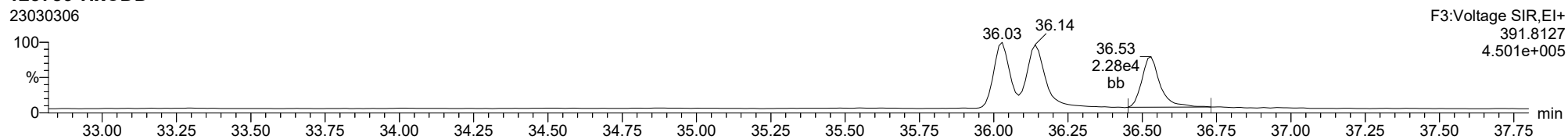
23030306



F3:Voltage SIR,EI+  
389.8157  
5.486e+005

**123789-HxCDD**

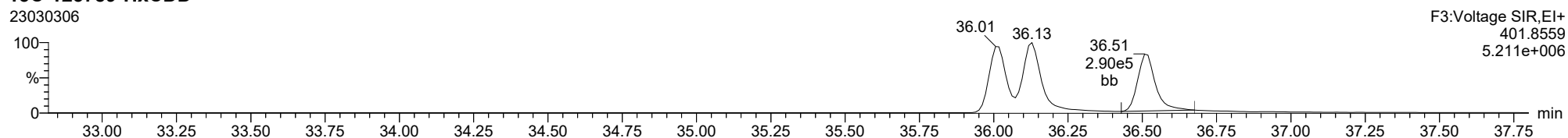
23030306



F3:Voltage SIR,EI+  
391.8127  
4.501e+005

**13C-123789-HxCDD**

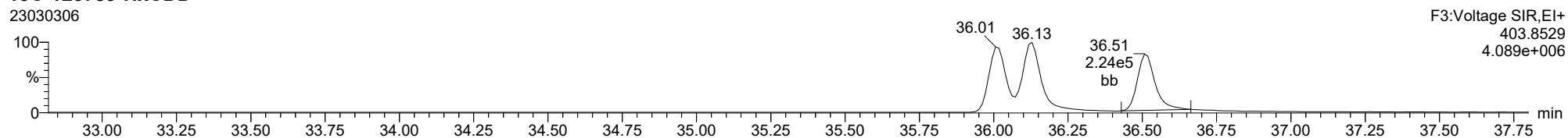
23030306



F3:Voltage SIR,EI+  
401.8559  
5.211e+006

**13C-123789-HxCDD**

23030306

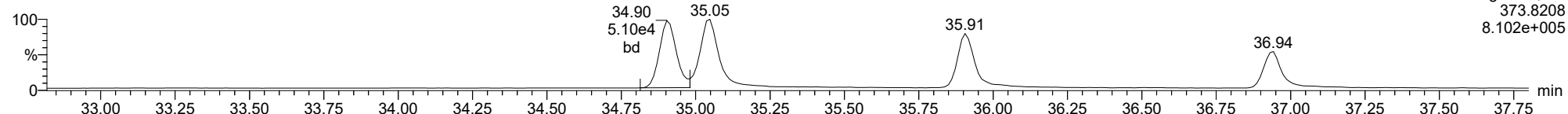


F3:Voltage SIR,EI+  
403.8529  
4.089e+006

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

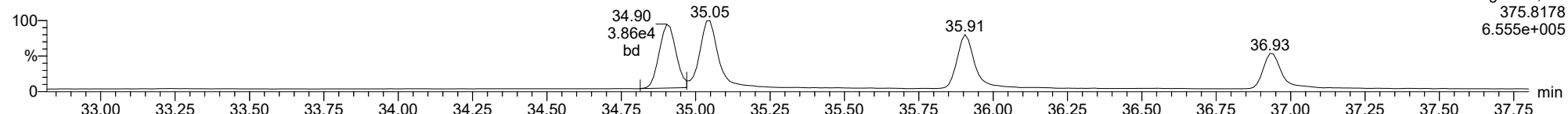
**123478-HxCDF**

23030306



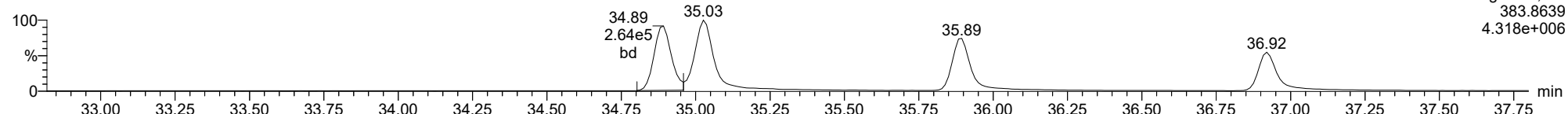
**123478-HxCDF**

23030306



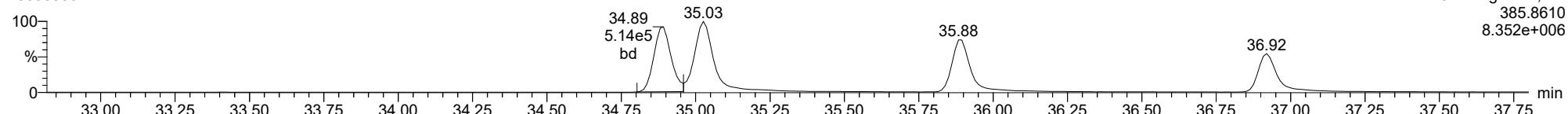
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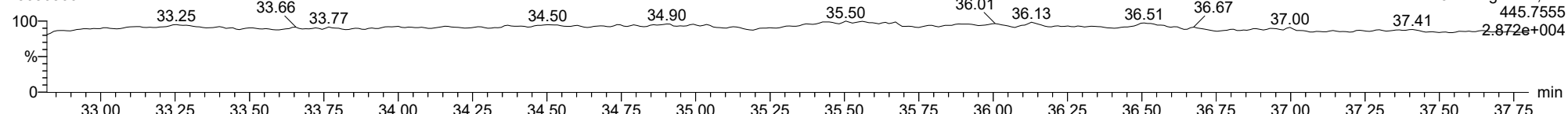
**13C-123478-HxCDF**

23030306



**FUNCTION3 OCDPE**

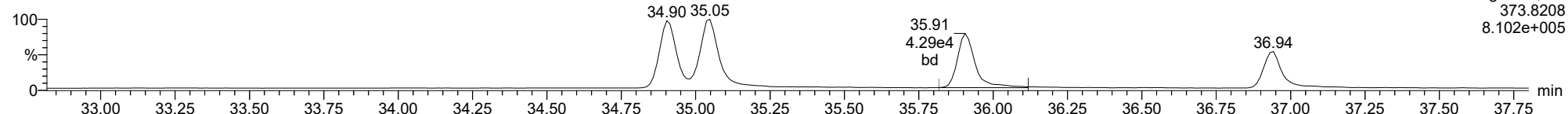
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

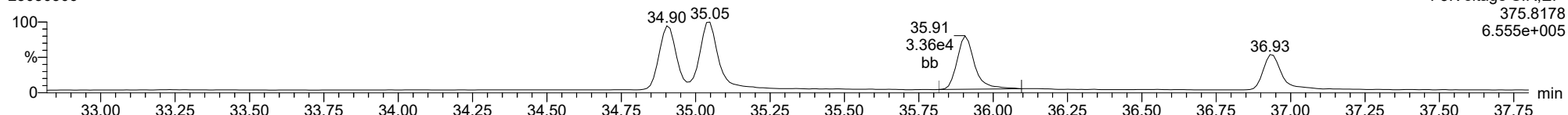
**234678-HxCDF**

23030306



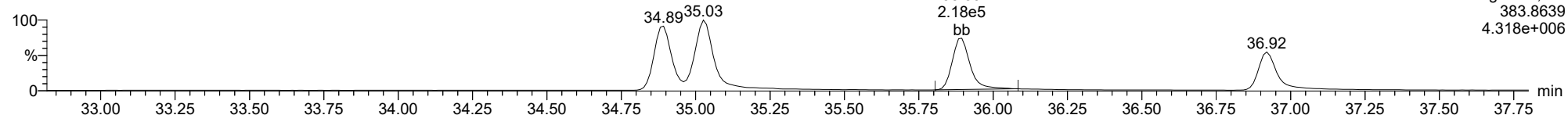
**234678-HxCDF**

23030306



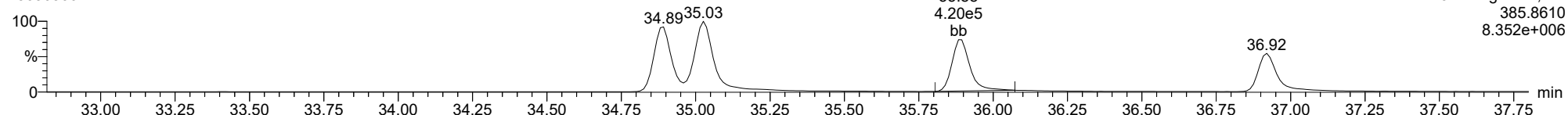
**13C-234678-HxCDF**

23030306



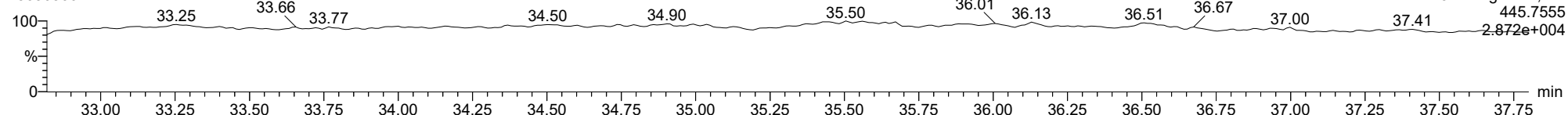
**13C-234678-HxCDF**

23030306



**FUNCTION3 OCDPE**

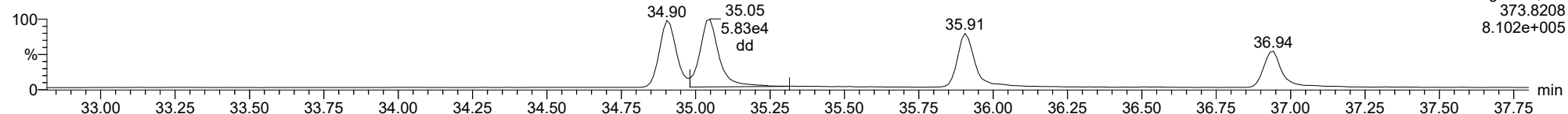
23030306



ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

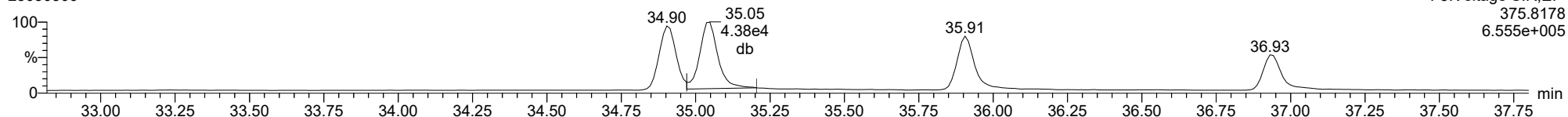
**123678-HxCDF**

23030306



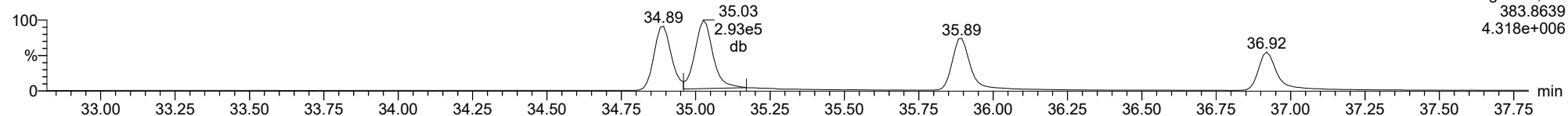
**123678-HxCDF**

23030306



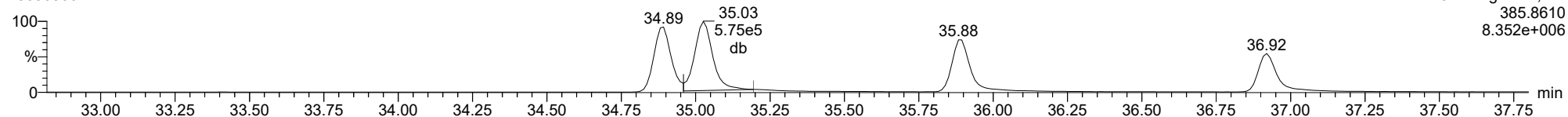
**13C-123678-HxCDF**

23030306



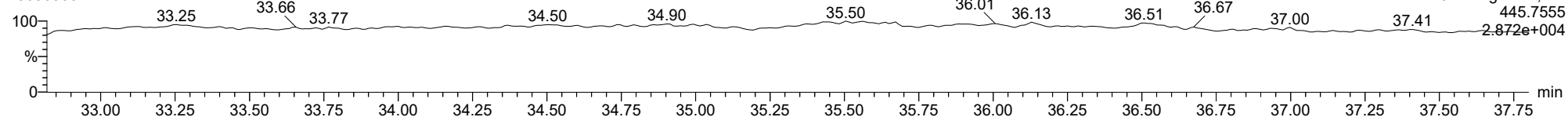
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23030306



**FUNCTION3 OCDPE**

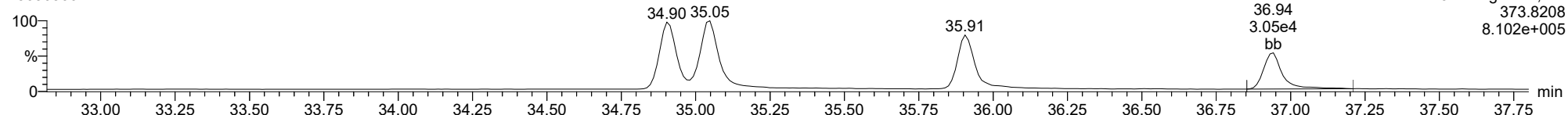
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

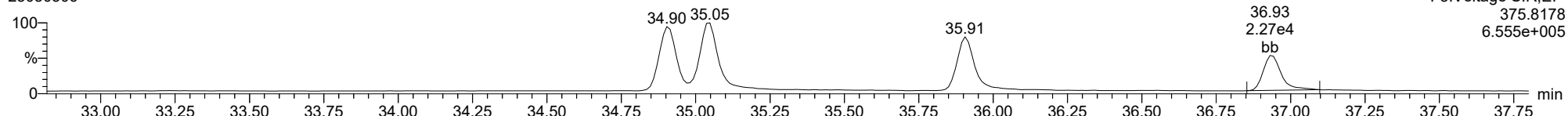
**123789-HxCDF**

23030306



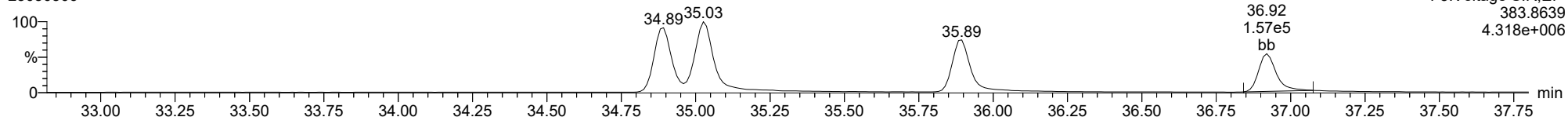
**123789-HxCDF**

23030306



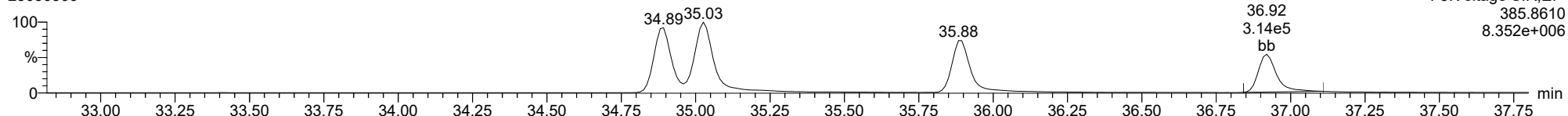
**13C-123789-HxCDF**

23030306



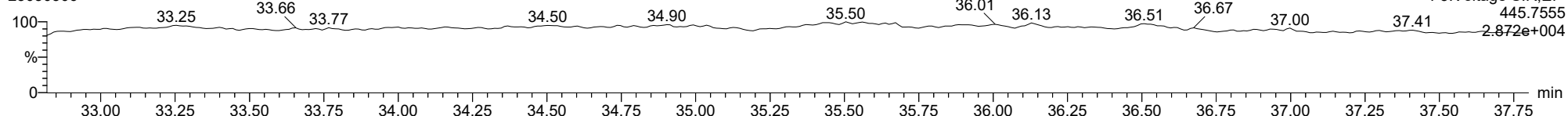
**13C-123789-HxCDF**

23030306



**FUNCTION3 OCDPE**

23030306

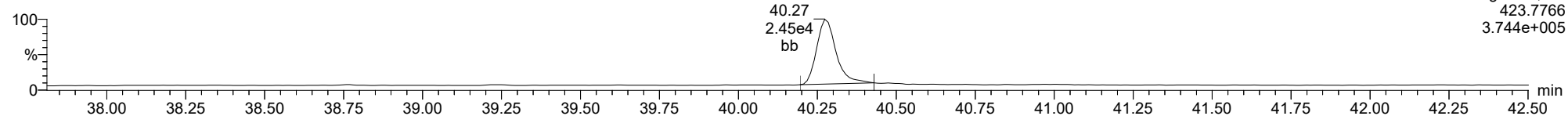




ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

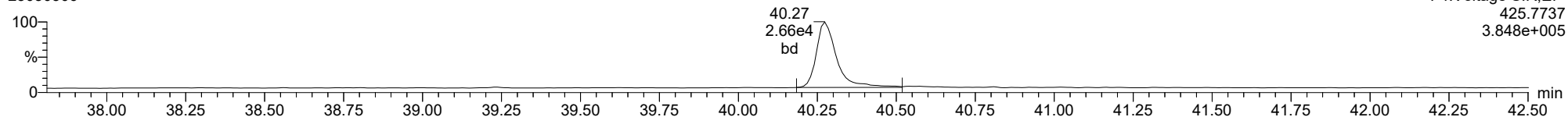
23030306



F4:Voltage SIR,El+  
423.7766  
3.744e+005

**1234678-HpCDD**

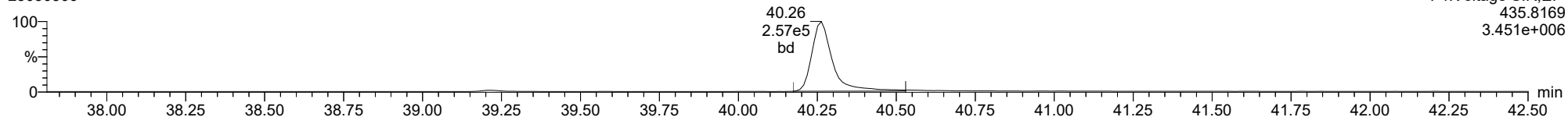
23030306



F4:Voltage SIR,El+  
425.7737  
3.848e+005

**13C-1234678-HpCDD**

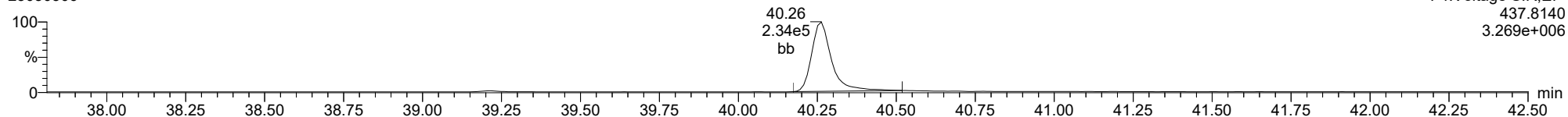
23030306



F4:Voltage SIR,El+  
435.8169  
3.451e+006

**13C-1234678-HpCDD**

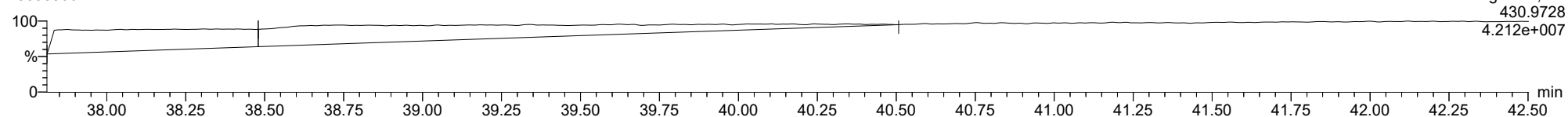
23030306



F4:Voltage SIR,El+  
437.8140  
3.269e+006

**FUNCTION4 PFK**

23030306

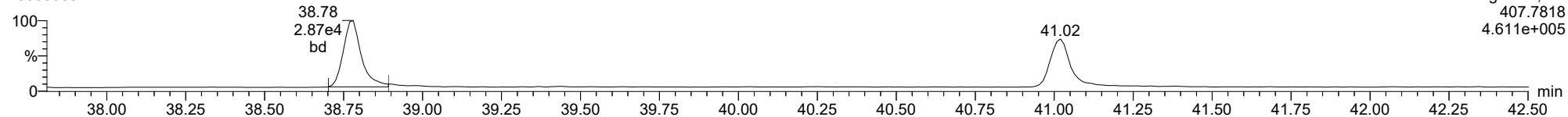


F4:Voltage SIR,El+  
430.9728  
4.212e+007

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

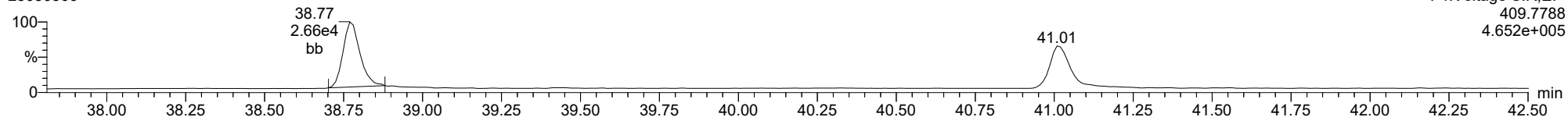
23030306



F4:Voltage SIR,El+  
407.7818  
4.611e+005

1234678-HpCDF

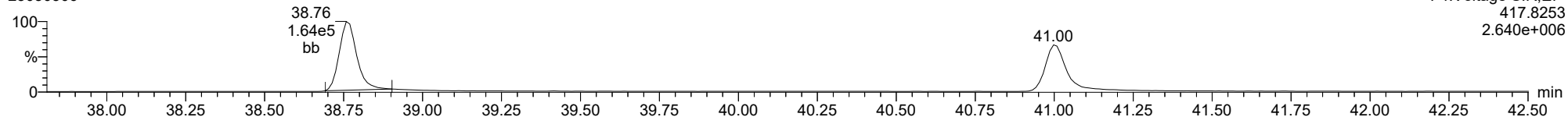
23030306



F4:Voltage SIR,El+  
409.7788  
4.652e+005

13C-1234678-HpCDF

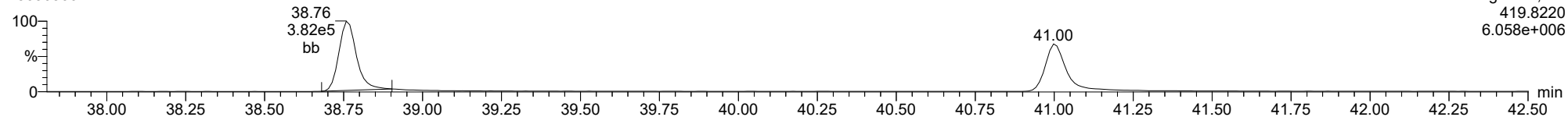
23030306



F4:Voltage SIR,El+  
417.8253  
2.640e+006

13C-1234678-HpCDF

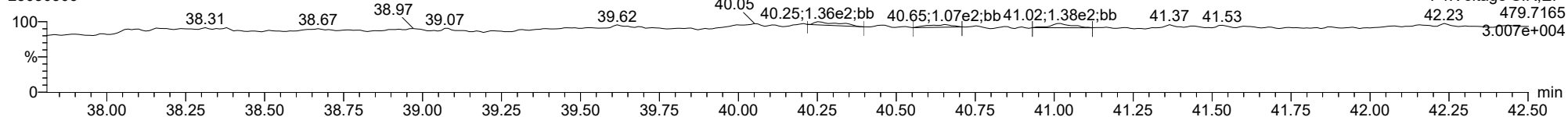
23030306



F4:Voltage SIR,El+  
419.8220  
6.058e+006

FUNCTION4 NCDPE

23030306

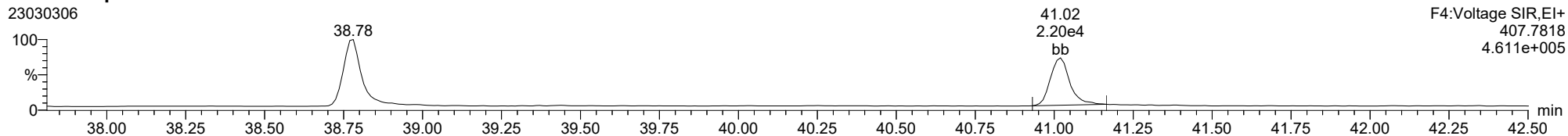


F4:Voltage SIR,El+  
42.23 479.7165  
3.007e+004

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

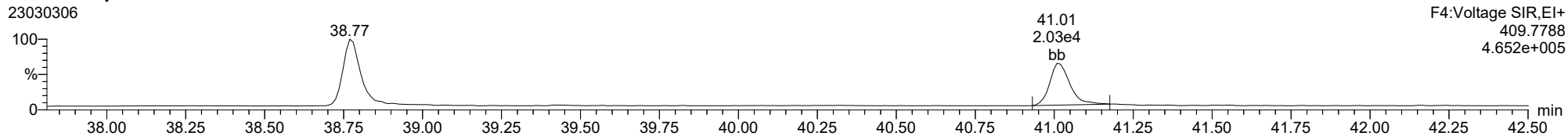
23030306



F4:Voltage SIR,EI+  
407.7818  
4.611e+005

1234789-HpCDF

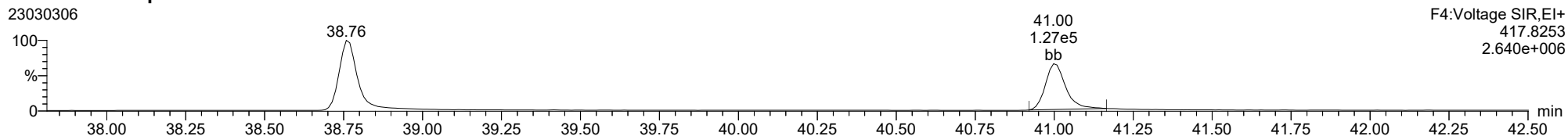
23030306



F4:Voltage SIR,EI+  
409.7788  
4.652e+005

13C-1234789-HpCDF

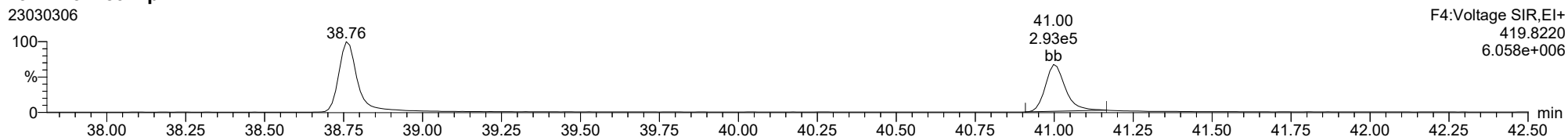
23030306



F4:Voltage SIR,EI+  
417.8253  
2.640e+006

13C-1234789-HpCDF

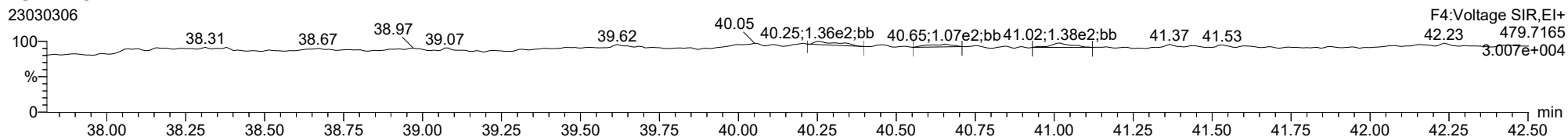
23030306



F4:Voltage SIR,EI+  
419.8220  
6.058e+006

FUNCTION4 NCDPE

23030306

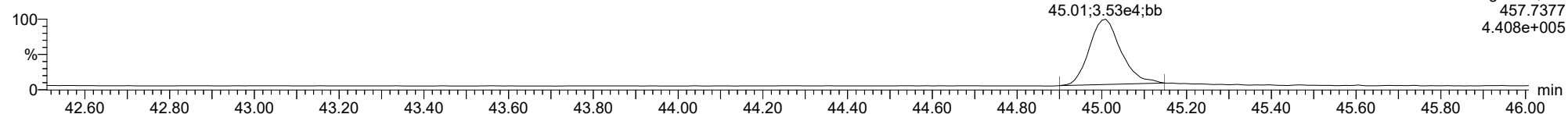


F4:Voltage SIR,EI+  
479.7165  
3.007e+004

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

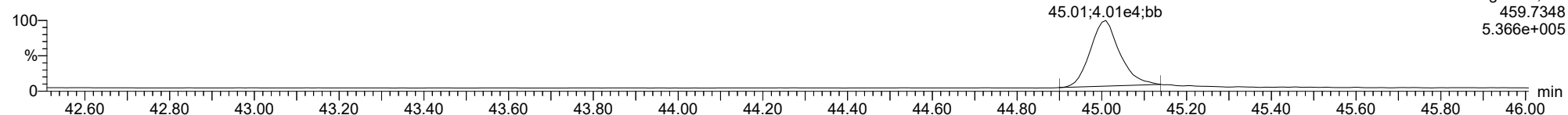
**OCDD**

23030306



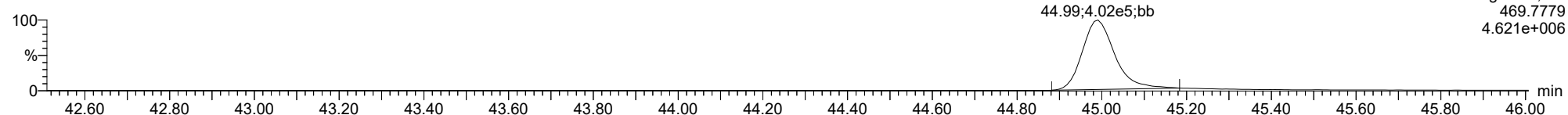
**OCDD**

23030306



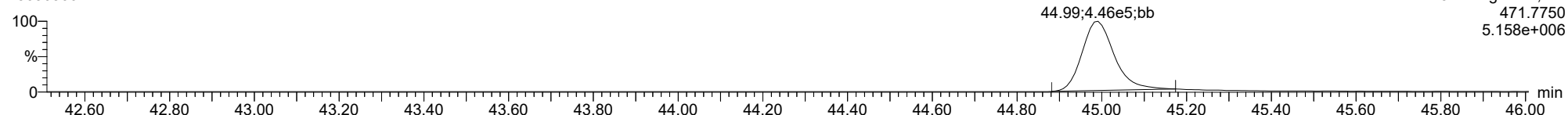
**13C-OCDD**

23030306



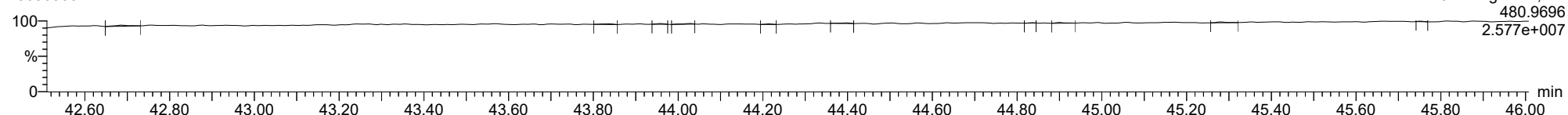
**13C-OCDD**

23030306



**FUNCTION5 PFK**

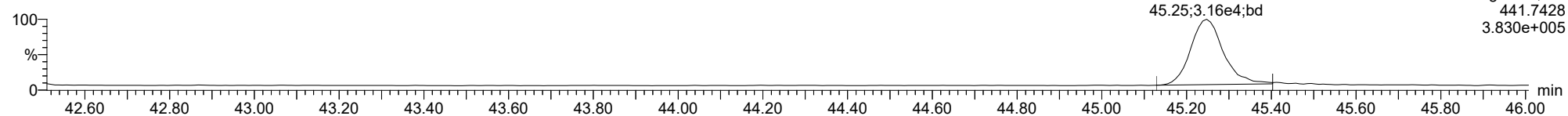
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

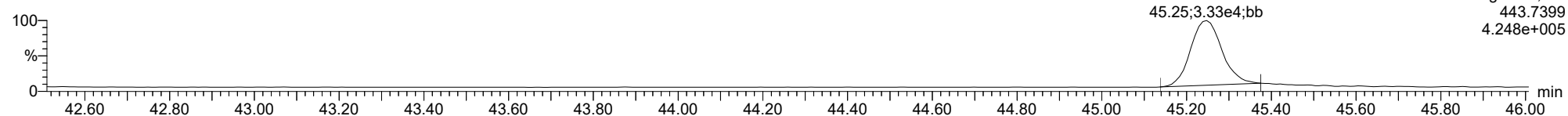
**OCDF**

23030306



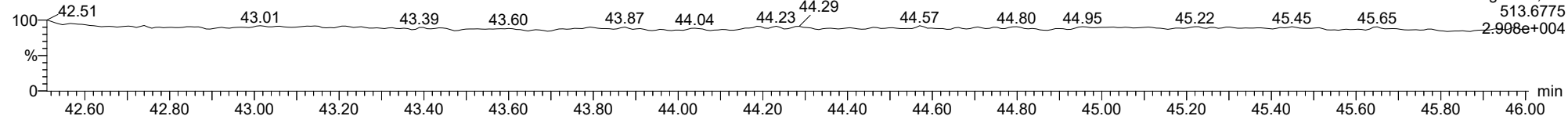
**OCDF**

23030306



**FUNCTION5 DCDPE**

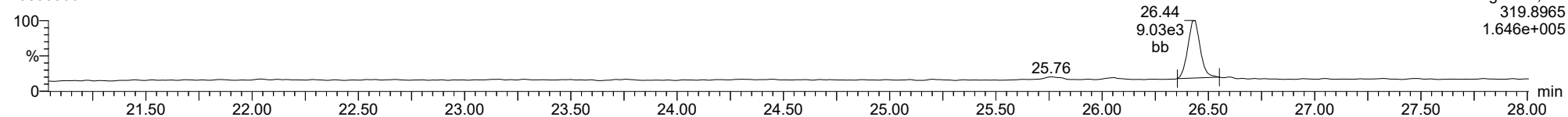
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

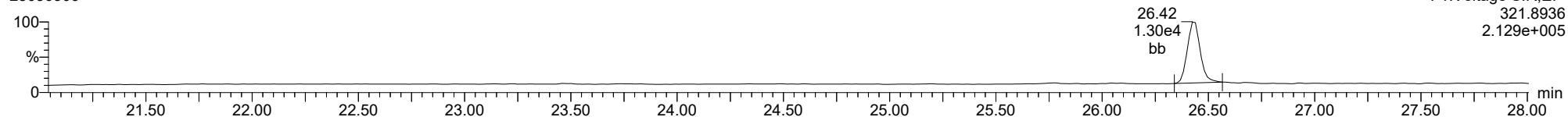
**Total-tetradoxins**

23030306



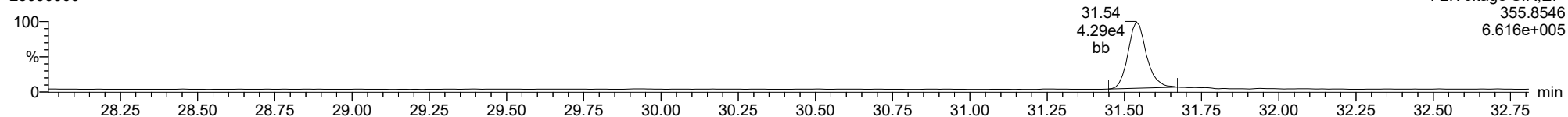
**Total-tetradoxins**

23030306



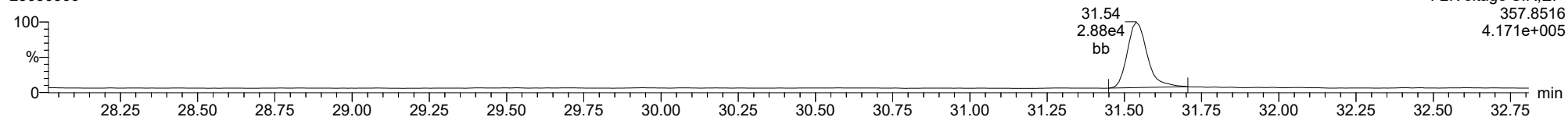
**Total-pentadoxins**

23030306



**Total-pentadoxins**

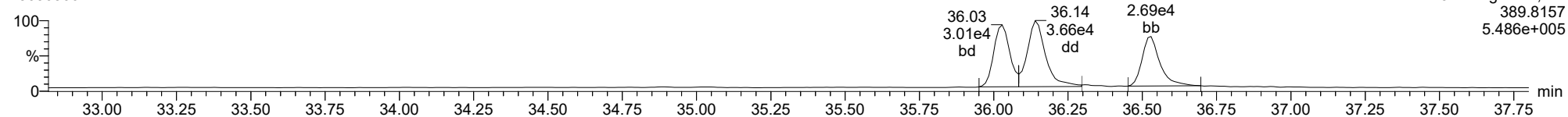
23030306



ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

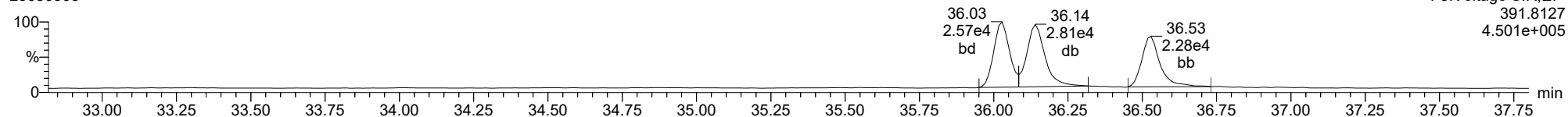
**Total-hexadioxins**

23030306



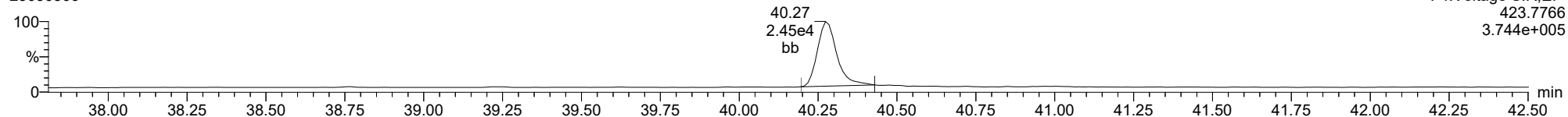
**Total-hexadioxins**

23030306



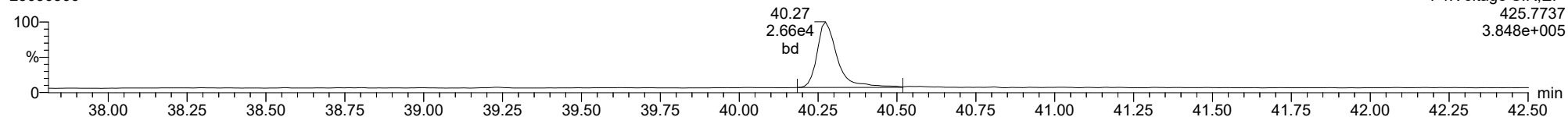
**Total-heptadioxins**

23030306



**Total-heptadioxins**

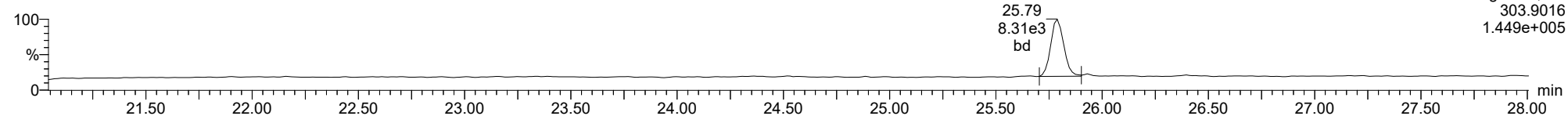
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

**Total-tetrafurans**

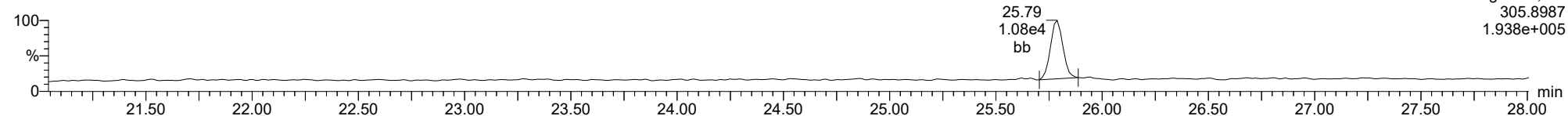
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F1:Voltage SIR,EI+  
303.9016  
1.449e+005

**Total-tetrafurans**

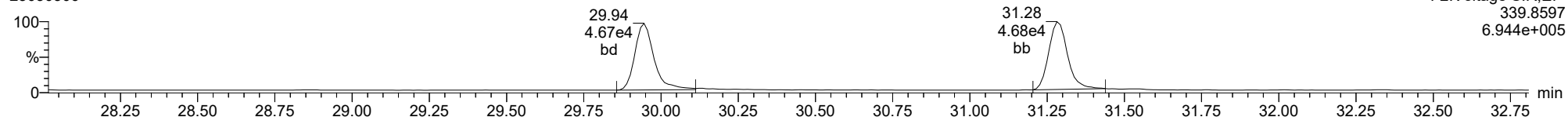
23030306



F1:Voltage SIR,EI+  
305.8987  
1.938e+005

**Total-pentafurans**

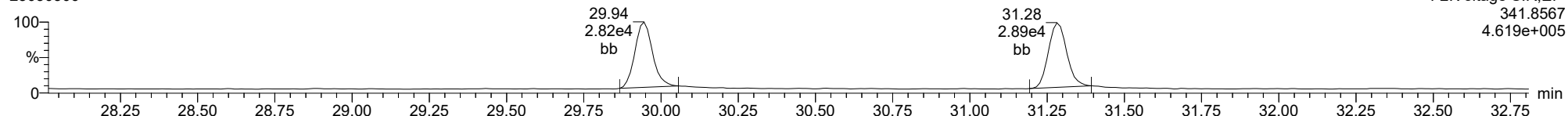
23030306



F2:Voltage SIR,EI+  
339.8597  
6.944e+005

**Total-pentafurans**

23030306



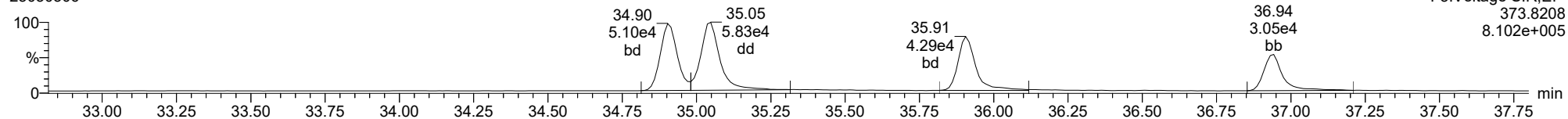
F2:Voltage SIR,EI+  
341.8567  
4.619e+005



ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

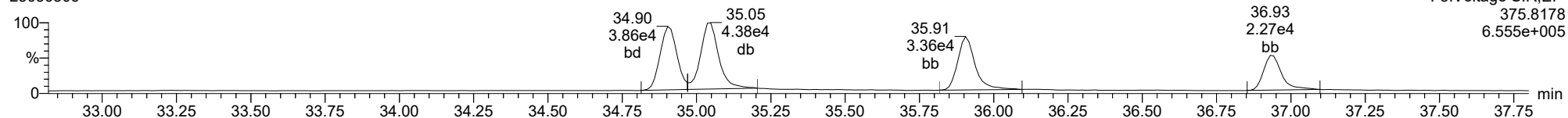
**Total-hexafurans**

23030306



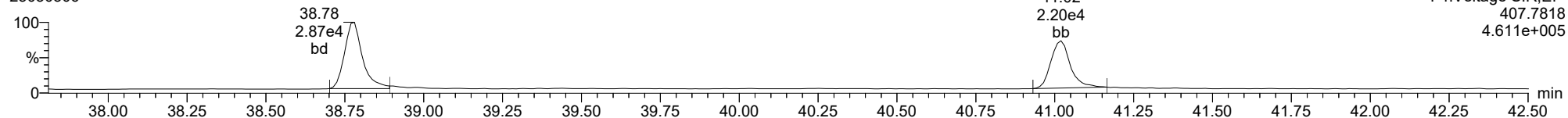
**Total-hexafurans**

23030306



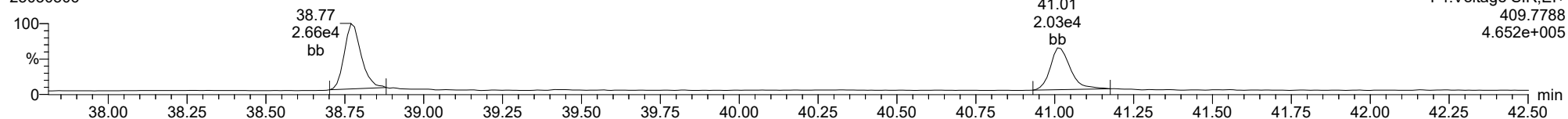
**Total-heptafurans**

23030306



**Total-heptafurans**

23030306



Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
 Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	4.563e4	6.298e4	0.702	0.724	0.770	1455	2151	7.03e5	9.46e5	483.4	440.0	NO	bb	bb	10.132
12378-PeCDF	29.945	1.001	2.374e5	1.577e5	0.679	1.505	1.550	2714	2519	3.51e6	2.28e6	1294.3	903.8	NO	bb	bb	49.089
23478-PeCDF	31.282	1.001	2.063e5	1.364e5	0.786	1.512	1.550	2714	2519	3.03e6	1.99e6	1118.0	788.5	NO	bb	bb	49.466
123478-HxCDF	34.903	1.000	2.473e5	1.941e5	1.166	1.275	1.240	3008	2708	3.76e6	2.98e6	1248.4	1099.9	NO	bd	bd	48.979
234678-HxCDF	35.905	1.000	2.404e5	1.930e5	1.140	1.246	1.240	3008	2708	3.53e6	2.85e6	1172.2	1053.8	NO	bb	bb	49.000
123678-HxCDF	35.048	1.001	2.970e5	2.223e5	1.091	1.336	1.240	3008	2708	3.95e6	3.09e6	1312.5	1142.3	NO	db	db	50.520
123789-HxCDF	36.942	1.001	2.103e5	1.706e5	1.137	1.233	1.240	3008	2708	2.89e6	2.30e6	959.2	849.3	NO	bd	bd	50.468
1234678-HpCDF	38.780	1.000	1.592e5	1.601e5	1.003	0.994	1.050	2672	2189	2.51e6	2.53e6	939.2	1157.5	NO	bb	bb	48.161
1234789-HpCDF	41.019	1.000	1.361e5	1.443e5	0.953	0.943	1.050	2672	2189	1.84e6	1.86e6	689.1	851.7	NO	bb	bd	49.244
OCDF	45.247	1.006	2.019e5	2.478e5	0.778	0.815	0.890	1393	1380	2.32e6	2.62e6	1663.0	1900.3	NO	bb	bd	93.418
2378-TCDD	26.424	1.000	5.877e4	7.446e4	1.149	0.789	0.770	1483	1021	8.00e5	1.03e6	539.5	1013.7	NO	bd	bb	9.873
12378-PeCDD	31.538	1.000	1.890e5	1.221e5	1.022	1.548	1.550	1651	2172	2.74e6	1.77e6	1662.3	815.6	NO	bb	bb	49.884
123478-HxCDD	36.028	1.000	1.812e5	1.479e5	0.996	1.225	1.240	1690	2600	2.90e6	2.38e6	1717.5	913.7	NO	bd	bd	48.605
123678-HxCDD	36.139	1.000	2.270e5	1.862e5	1.001	1.219	1.240	1690	2600	3.05e6	2.54e6	1803.3	977.3	NO	db	db	51.480
123789-HxCDD	36.529	1.011	1.887e5	1.546e5	0.907	1.221	1.240	1690	2600	2.71e6	2.20e6	1606.4	846.3	NO	bb	bb	51.083
1234678-HpCDD	40.273	1.000	1.573e5	1.681e5	1.039	0.936	1.050	2523	2313	2.21e6	2.22e6	874.4	957.9	NO	bb	bd	49.956
OCDD	45.009	1.000	2.508e5	2.930e5	0.920	0.856	0.890	1279	1652	2.91e6	3.41e6	2272.5	2065.6	NO	bb	bb	95.487
13C-2378-TCDF	25.774	1.007	6.575e5	8.705e5	1.620	0.755	0.770	2127	1667	9.70e6	1.27e7	4562.2	7600.8	NO	bb	bb	92.139
13C-12378-PeCDF	29.922	1.169	7.106e5	4.742e5	1.240	1.498	1.550	3150	3257	9.76e6	6.54e6	3098.5	2009.5	NO	bd	bd	93.316
13C-23478-PeCDF	31.259	1.221	5.241e5	3.573e5	1.118	1.467	1.550	3150	3257	7.68e6	5.27e6	2437.6	1617.5	NO	bb	bb	77.038
13C-123478-HxCDF	34.891	0.956	2.605e5	5.124e5	1.168	0.508	0.510	2130	2302	3.94e6	7.71e6	1851.1	3349.5	NO	bd	bd	95.975
13C-123678-HxCDF	35.025	0.959	3.029e5	6.396e5	1.386	0.474	0.510	2130	2302	4.25e6	8.39e6	1994.1	3646.7	NO	db	db	98.624
13C-234678-HxCDF	35.894	0.983	2.705e5	5.057e5	1.129	0.535	0.510	2130	2302	3.77e6	7.17e6	1772.4	3115.7	NO	bd	bb	99.718
13C-123789-HxCDF	36.919	1.011	2.253e5	4.385e5	0.932	0.514	0.510	2130	2302	3.30e6	6.48e6	1548.0	2814.2	NO	bb	bb	103.358
13C-1234678-HpCDF	38.769	1.062	2.032e5	4.578e5	0.895	0.444	0.440	2209	3025	3.15e6	7.13e6	1428.1	2357.0	NO	bb	bb	107.118
13C-1234789-HpCDF	41.008	1.123	1.757e5	4.217e5	0.770	0.417	0.440	2209	3025	2.29e6	5.20e6	1036.4	1717.4	NO	bb	bb	112.595
13C-1234-TCDD	25.605	0.000	4.555e5	5.681e5	1.000	0.802	0.770	2485	1606	6.85e6	8.57e6	2757.9	5335.2	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	5.228e5	6.520e5	1.152	0.802	0.770	2485	1606	7.70e6	9.63e6	3097.5	5999.3	NO	bb	bb	99.597
13C-12378-PeCDD	31.527	1.231	3.747e5	2.356e5	0.829	1.590	1.550	1413	1348	5.28e6	3.29e6	3736.6	2437.5	NO	bb	bb	71.936
13C-123478-HxCDD	36.017	0.986	3.837e5	2.963e5	0.995	1.295	1.240	1796	1719	5.91e6	4.54e6	3293.9	2638.3	NO	bd	bd	99.140
13C-123678-HxCDD	36.128	0.989	4.675e5	3.344e5	1.157	1.398	1.240	1796	1719	6.38e6	4.87e6	3554.2	2831.4	NO	db	db	100.573
13C-1234678-HpCDD	40.262	1.102	3.210e5	3.059e5	0.840	1.049	1.050	2165	1959	4.38e6	4.15e6	2024.2	2117.7	NO	bb	bb	108.247
13C-OCDD	44.990	1.232	6.075e5	6.305e5	0.767	0.963	0.890	2629	1930	6.50e6	7.26e6	2473.3	3761.0	NO	bd	bb	234.029
13C-123789-HxCDD	36.518	0.000	3.849e5	3.043e5	1.000	1.265	1.240	1796	1719	5.52e6	4.36e6	3076.5	2537.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.032	1.159e5		1.288			2383		1.68e6		703.2			bb		8.796

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.285	0.865	5.143e4	7.104e4	0.802	0.724	0.770	1455	2151	8.64e5	1.17e6	593.7	544.2	NO	bb	bb	10.000
1289-TCDF	27.286	1.059	4.449e4	5.910e4	0.678	0.753	0.770	1455	2151	6.41e5	8.65e5	440.8	402.3	NO	bb	db	10.000
13468-PECDF	27.144	0.907	4.471e5	2.913e5	1.246	1.535	1.550	765	1431	6.85e6	4.42e6	8952.4	3092.4	NO	bb	bb	50.000
12389-PECDF	32.318	1.080	1.756e5	1.185e5	0.496	1.482	1.550	2714	2519	2.46e6	1.67e6	905.1	663.5	NO	bb	bb	50.000
123468-HXCDF	33.243	0.953	2.474e5	2.044e5	1.169	1.210	1.240	3008	2708	3.57e6	2.89e6	1187.3	1066.9	NO	bb	bd	50.000
1368-TCDD	23.557	0.892	5.333e4	6.596e4	1.015	0.808	0.770	1483	1021	8.25e5	1.09e6	556.5	1064.4	NO	bb	bb	10.000
1289-TCDD	27.031	1.023	4.649e4	6.027e4	0.909	0.771	0.770	1483	1021	6.71e5	8.87e5	452.4	868.9	NO	bb	bb	10.000
12479-PECDD	28.830	0.914	4.152e5	2.870e5	2.301	1.447	1.550	1651	2172	3.89e6	2.64e6	2354.1	1214.5	NO	bb	bd	50.000
12389-PECDD	31.939	1.013	2.202e5	1.409e5	1.184	1.563	1.550	1651	2172	2.97e6	1.93e6	1798.8	887.7	NO	bd	bd	50.000
124679-HXCDD	34.011	0.944	2.133e5	1.659e5	1.115	1.286	1.240	1690	2600	2.98e6	2.42e6	1762.3	930.8	NO	bd	bb	50.000
1234679-HPCDD	39.225	0.974	1.868e5	1.696e5	1.137	1.101	1.050	2523	2313	2.68e6	2.60e6	1062.7	1125.2	NO	bd	bb	50.000
Total-tetrafurans			1.415e5		0.727			1455		2.21e6							30.132
Total-penta1			4.471e5					765		6.85e6							50.000
Total-pentafurans			6.595e5		0.654			2714		9.58e6							158.378
Total-hexafurans			1.243e6		1.141			3008		1.77e7							249.074
Total-heptafurans			2.965e5		0.978			2672		4.37e6							97.824
Total-Furans			2.990e6		0.922			1455		4.30e7							678.826
Total-tetradoxins			2.666e5		1.024			1483		3.52e6							50.252
Total-pentadoxins			8.253e5		1.502			1651		9.61e6							150.025
Total-hexadoxins			8.102e5		1.005			1690		1.16e7							201.167
Total-heptadoxins			3.440e5		1.088			2523		4.89e6							99.956
Total-Dioxins			2.497e6		1.130			1483		3.26e7							596.887
Total-TEQ			5.487e6					1483		7.56e7							1275.713
FUNCTION1 PFK			2.078e5					640846		4.44e6							
FUNCTION2 PFK			1.544e7					302960		1.17e7							0.000
FUNCTION3 PFK			6.335e6					441696		3.43e7							0.000
FUNCTION4 PFK			1.606e7					302692		2.36e6							
FUNCTION5 PFK			3.357e4					240421		1.60e6							
FUNCTION1 HXCD...			1.444e3					587		1.68e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			9.034e2					1003		1.66e4							0.000
FUNCTION3 OCDPE			5.560e2					494		8.57e3							0.000
FUNCTION4 NCDPE			9.205e2					776		1.78e4							0.000
FUNCTION5 DCDPE			9.291e1					548		1.29e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

Calibration: T:\Autospec\Curves\230303\CIH.cdb 06 Mar 2023 10:57:27

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
2	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
3	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
4	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
5	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
2	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
3	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
4	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
5	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
6	123468-HxCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
2	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
3	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000
4	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
5	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
6	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
7	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
8	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712
9	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
10	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
11	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
12	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
13	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
14	123468-HXCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000
15	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
16	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
17	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161
18	OCDF	45.25	2.019e5	2.478e5	0.778	0.81	0.89	1663.0	YES	NO	bb	bd	93.418
19	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
2	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
3	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
4	Total-tetradoxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
5	Total-tetradoxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
6	Total-tetradoxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
2	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
3	Total-pentadoxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
4	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
2	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
3	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
4	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
2	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
2	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
3	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
4	Total-tetradoxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
5	Total-tetradoxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
6	Total-tetradoxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108
7	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
8	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
9	Total-pentadoxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
10	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000
11	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
12	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
13	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
14	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000
15	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
16	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000
17	OCDD	45.01	2.508e5	2.930e5	0.920	0.86	0.89	2272.5	YES	NO	bb	bb	95.487

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000
4	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
5	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
6	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
7	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
8	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712
9	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
10	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
11	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
12	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
13	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
14	123468-HXCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000
15	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
16	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
17	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161
18	OCDF	45.25	2.019e5	2.478e5	0.778	0.81	0.89	1663.0	YES	NO	bb	bd	93.418
19	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000
20	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
21	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
22	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
23	Total-tetradiioxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
24	Total-tetradiioxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
25	Total-tetradiioxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108
26	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
27	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
28	Total-pentadiioxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
29	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000
30	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
31	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
32	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
33	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000
34	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
35	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000
36	OCDD	45.01	2.508e5	2.930e5	0.920	0.86	0.89	2272.5	YES	NO	bb	bb	95.487

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

**ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk**

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.24	1.621e5					3.0	YES		bb		
2	FUNCTION1 PFK	26.04	7.004e3					0.8	NO		bb		
3	FUNCTION1 PFK	25.20	1.505e4					1.0	NO		bb		
4	FUNCTION1 PFK	24.33	1.235e4					0.8	NO		bb		
5	FUNCTION1 PFK	23.94	5.589e3					0.6	NO		bb		
6	FUNCTION1 PFK	23.61	5.711e3					0.6	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.40	1.216e5					2.2	NO		bb		0.000
2	FUNCTION2 PFK	29.43	1.324e7					19.8	YES		db		0.000
3	FUNCTION2 PFK	28.41	2.080e6					16.6	YES		bd		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

**ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk**

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.64	4.177e4					1.9	NO		bb		0.000
2	FUNCTION3 PFK	33.49	1.199e5					5.0	YES		db		0.000
3	FUNCTION3 PFK	33.44	2.654e6					7.0	YES		dd		0.000
4	FUNCTION3 PFK	33.06	2.958e6					23.7	YES		bd		0.000
5	FUNCTION3 PFK	35.38	2.169e4					1.0	NO		bb		0.000
6	FUNCTION3 PFK	35.25	5.928e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	35.11	7.037e3					0.7	NO		bb		0.000
8	FUNCTION3 PFK	34.99	1.627e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	34.92	1.103e4					1.1	NO		db		0.000
10	FUNCTION3 PFK	34.86	1.305e4					1.0	NO		bd		0.000
11	FUNCTION3 PFK	34.80	9.642e3					0.9	NO		bb		0.000
12	FUNCTION3 PFK	34.66	1.233e4					0.9	NO		db		0.000
13	FUNCTION3 PFK	34.64	7.688e3					0.8	NO		bd		0.000
14	FUNCTION3 PFK	34.57	9.132e3					0.8	NO		bb		0.000
15	FUNCTION3 PFK	34.47	7.208e3					0.8	NO		bb		0.000
16	FUNCTION3 PFK	34.31	1.503e4					1.0	NO		bb		0.000
17	FUNCTION3 PFK	34.22	2.675e4					1.4	NO		bb		0.000
18	FUNCTION3 PFK	34.01	3.007e4					2.1	NO		db		0.000
19	FUNCTION3 PFK	33.97	1.328e4					1.1	NO		bd		0.000
20	FUNCTION3 PFK	33.91	6.249e3					0.6	NO		bb		0.000
21	FUNCTION3 PFK	36.99	2.219e4					1.1	NO		bd		0.000
22	FUNCTION3 PFK	36.87	2.133e3					0.4	NO		bb		0.000
23	FUNCTION3 PFK	36.83	5.225e3					0.6	NO		bb		0.000
24	FUNCTION3 PFK	36.70	4.929e4					1.7	NO		bb		0.000
25	FUNCTION3 PFK	36.43	1.980e4					1.2	NO		bb		0.000
26	FUNCTION3 PFK	36.38	7.184e3					0.9	NO		bb		0.000
27	FUNCTION3 PFK	36.27	4.220e3					0.5	NO		bb		0.000
28	FUNCTION3 PFK	36.24	2.102e3					0.4	NO		bb		0.000
29	FUNCTION3 PFK	36.19	3.748e3					0.5	NO		bb		0.000
30	FUNCTION3 PFK	35.87	3.133e4					1.6	NO		db		0.000
31	FUNCTION3 PFK	35.83	1.912e4					1.5	NO		bd		0.000
32	FUNCTION3 PFK	35.78	2.675e3					0.4	NO		db		0.000
33	FUNCTION3 PFK	35.74	3.023e4					1.5	NO		dd		0.000
34	FUNCTION3 PFK	35.67	1.673e4					1.4	NO		bd		0.000
35	FUNCTION3 PFK	35.58	2.145e4					1.4	NO		db		0.000
36	FUNCTION3 PFK	35.53	1.268e4					1.1	NO		bd		0.000
37	FUNCTION3 PFK	37.67	2.243e4					1.6	NO		bb		0.000

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**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	37.45	8.583e3					0.7	NO		db		0.000
39	FUNCTION3 PFK	37.43	4.891e3					0.7	NO		bd		0.000
40	FUNCTION3 PFK	37.30	6.956e3					0.6	NO		bb		0.000
41	FUNCTION3 PFK	37.23	5.682e3					0.7	NO		db		0.000
42	FUNCTION3 PFK	37.20	9.815e3					0.9	NO		dd		0.000
43	FUNCTION3 PFK	37.15	5.475e3					0.6	NO		dd		0.000
44	FUNCTION3 PFK	37.11	7.631e3					0.8	NO		bd		0.000
45	FUNCTION3 PFK	37.06	2.709e4					1.4	NO		db		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.40	1.889e5					2.4	NO		bb		
2	FUNCTION4 PFK	39.68	1.587e7					5.4	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.63	9.422e3					1.5	NO		bb		
2	FUNCTION5 PFK	43.24	1.576e3					0.7	NO		bb		
3	FUNCTION5 PFK	43.00	1.263e4					1.7	NO		bb		
4	FUNCTION5 PFK	45.90	6.371e3					1.4	NO		bb		
5	FUNCTION5 PFK	45.34	1.310e3					0.6	NO		bb		
6	FUNCTION5 PFK	43.79	2.270e3					0.7	NO		bb		

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.16	2.360e2					3.4	YES		bb		0.000
2	FUNCTION1 HXCD...	26.52	1.410e2					3.2	YES		db		0.000
3	FUNCTION1 HXCD...	26.41	1.480e2					3.3	YES		bd		0.000
4	FUNCTION1 HXCD...	26.16	8.707e1					1.9	NO		db		0.000
5	FUNCTION1 HXCD...	26.10	7.515e1					2.1	NO		bd		0.000
6	FUNCTION1 HXCD...	25.79	8.971e1					2.2	NO		bb		0.000
7	FUNCTION1 HXCD...	25.63	1.156e2					2.5	NO		bb		0.000
8	FUNCTION1 HXCD...	24.52	1.119e2					2.7	NO		db		0.000
9	FUNCTION1 HXCD...	24.43	1.844e2					3.5	YES		bd		0.000
10	FUNCTION1 HXCD...	23.75	1.728e2					2.1	NO		bb		0.000
11	FUNCTION1 HXCD...	21.31	8.251e1					1.7	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.95	1.010e2					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	31.18	4.333e2					5.6	YES		bb		0.000
3	FUNCTION2 HPCD...	30.70	7.244e1					2.1	NO		bb		0.000
4	FUNCTION2 HPCD...	30.31	7.131e1					1.6	NO		bb		0.000
5	FUNCTION2 HPCD...	29.76	7.422e1					1.6	NO		bb		0.000
6	FUNCTION2 HPCD...	29.04	7.307e1					1.9	NO		bb		0.000
7	FUNCTION2 HPCD...	28.55	7.813e1					2.1	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	1.400e2					5.4	YES		bb		0.000
2	FUNCTION3 OCDPE	35.04	1.909e2					5.6	YES		db		0.000
3	FUNCTION3 OCDPE	34.94	2.251e2					6.4	YES		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

**ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk**

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.60	9.374e1					3.5	YES		bb		0.000
2	FUNCTION4 NCDPE	40.25	1.903e2					3.2	YES		bb		0.000
3	FUNCTION4 NCDPE	39.09	7.390e1					1.9	NO		bb		0.000
4	FUNCTION4 NCDPE	38.97	7.768e1					2.4	NO		bb		0.000
5	FUNCTION4 NCDPE	41.21	8.604e1					3.3	YES		bb		0.000
6	FUNCTION4 NCDPE	41.01	1.089e2					3.1	YES		bb		0.000
7	FUNCTION4 NCDPE	40.86	1.930e2					2.9	NO		db		0.000
8	FUNCTION4 NCDPE	40.74	9.692e1					2.6	NO		bd		0.000

**ETHERS6**

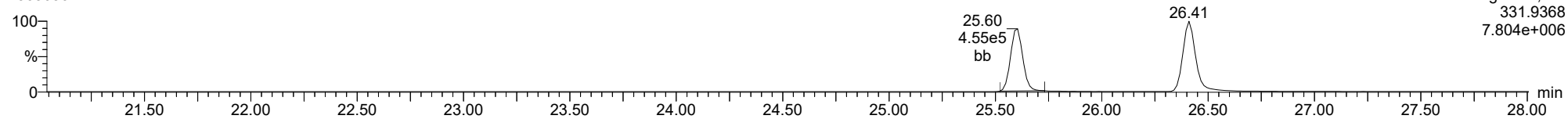
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.90	9.291e1					2.4	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

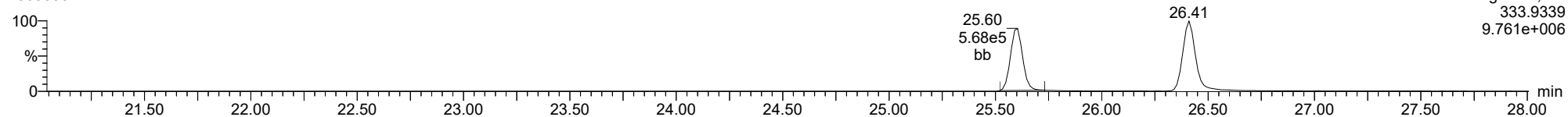
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23030307



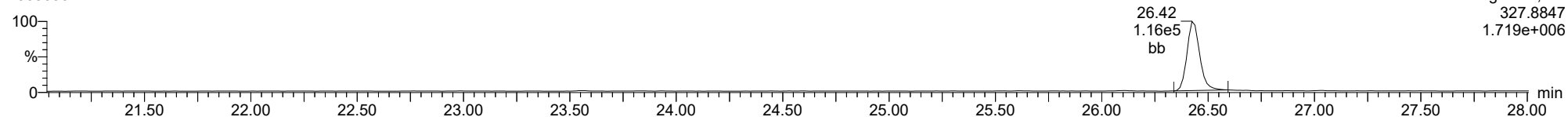
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23030307



**37CL-2378-TCDD**

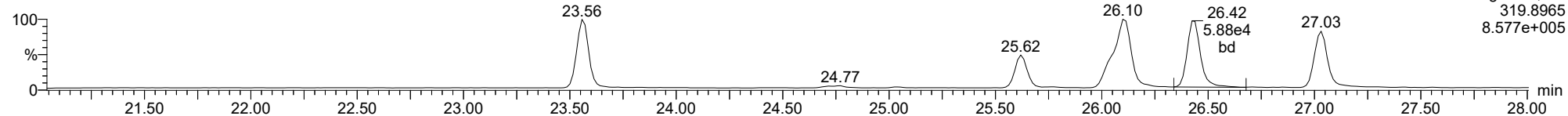
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ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

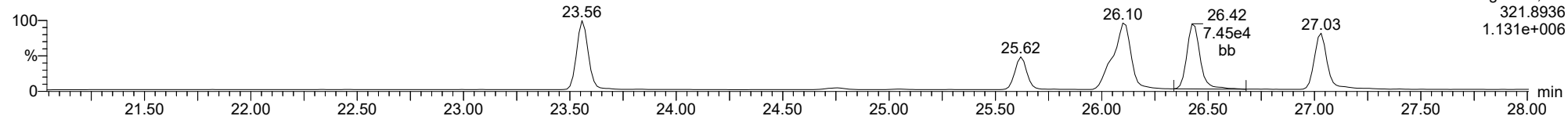
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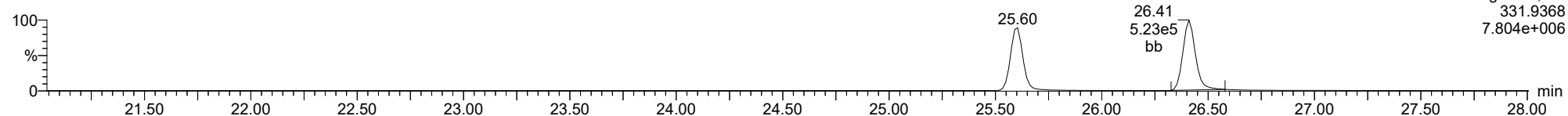
**2378-TCDD**

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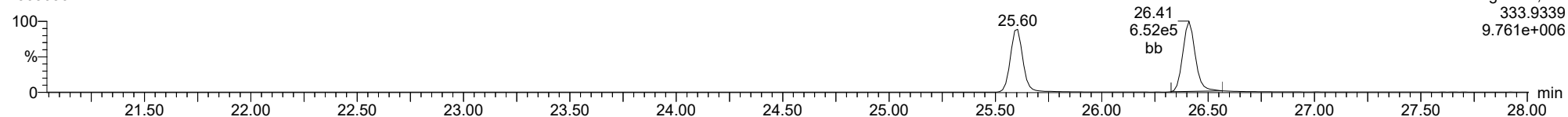
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23030307



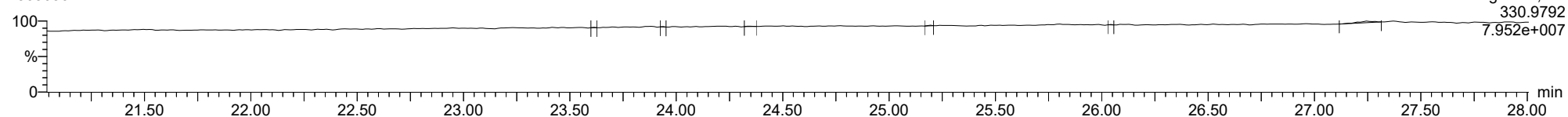
**13C-2378-TCDD**

23030307



**FUNCTION1 PFK**

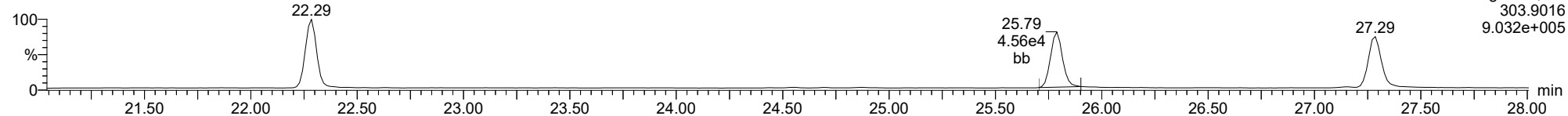
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ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

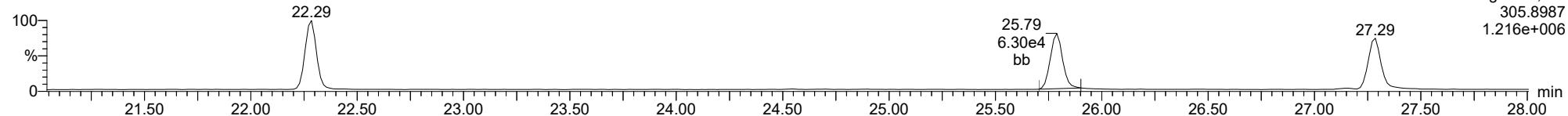
**2378-TCDF**

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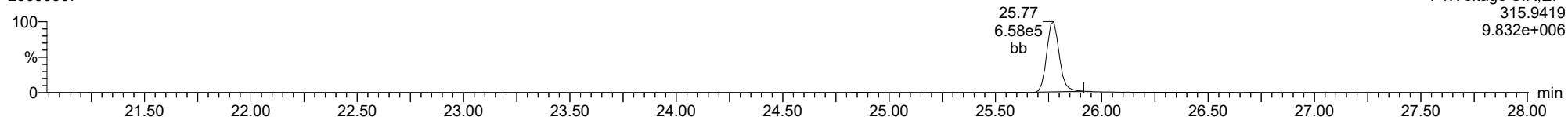
**2378-TCDF**

23030307



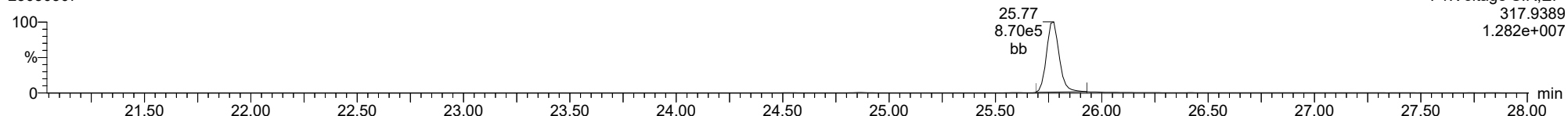
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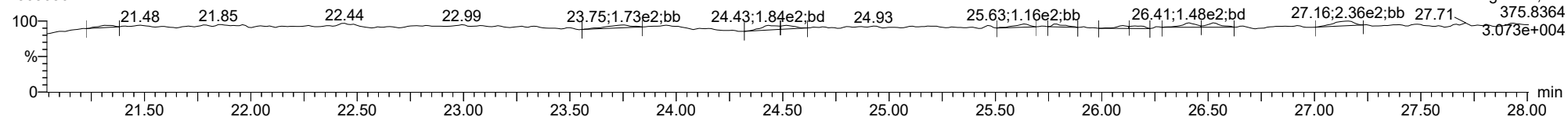
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**FUNCTION1 HXCDPE**

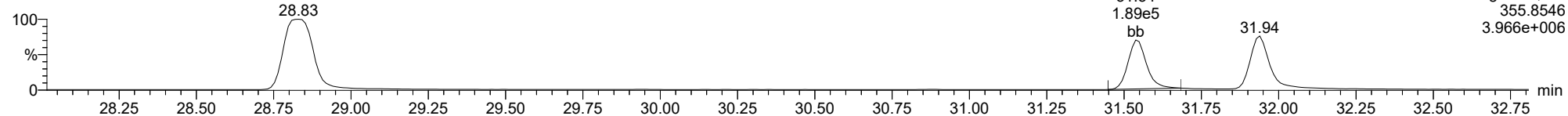
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**12378-PeCDD**

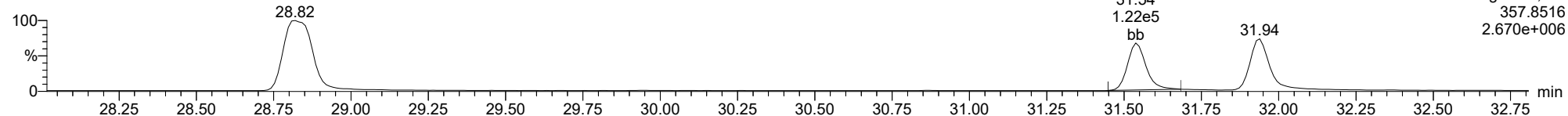
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F2:Voltage SIR,EI+  
357.8516  
3.966e+006

**12378-PeCDD**

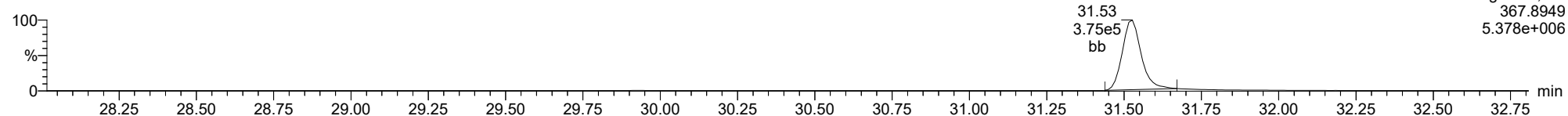
23030307



F2:Voltage SIR,EI+  
357.8516  
2.670e+006

**13C-12378-PeCDD**

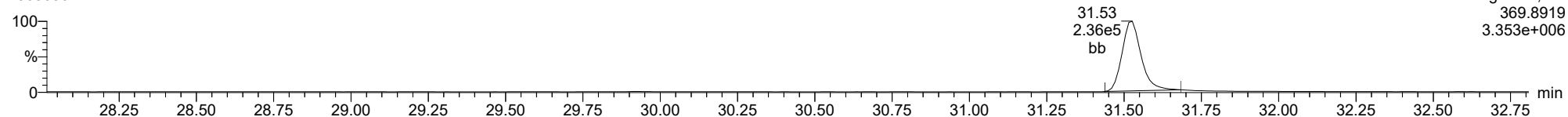
23030307



F2:Voltage SIR,EI+  
367.8949  
5.378e+006

**13C-12378-PeCDD**

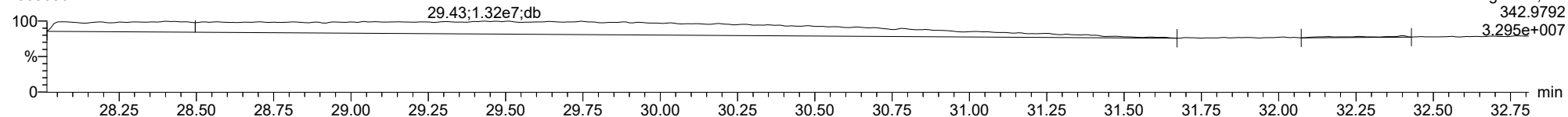
23030307



F2:Voltage SIR,EI+  
369.8919  
3.353e+006

**FUNCTION2 PFK**

23030307



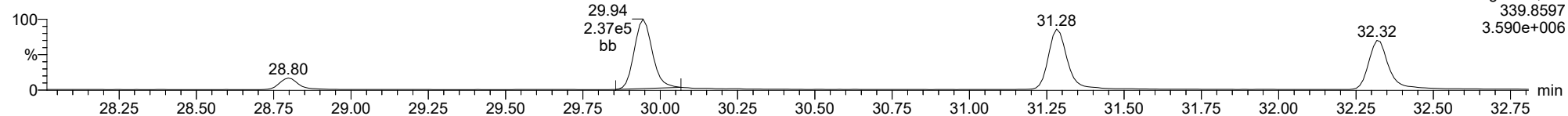
F2:Voltage SIR,EI+  
342.9792  
3.295e+007



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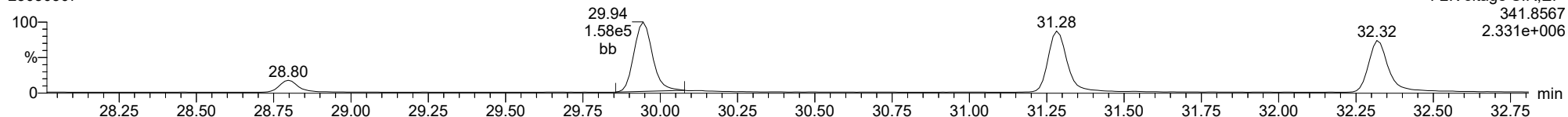
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23030307



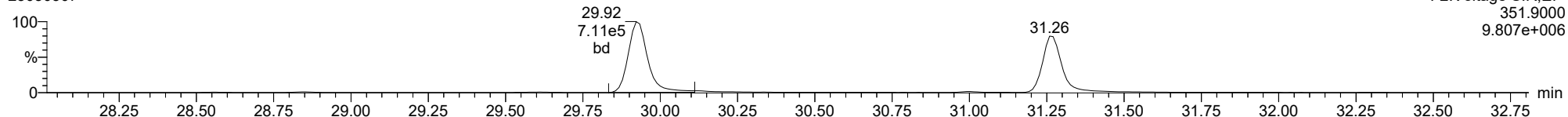
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23030307



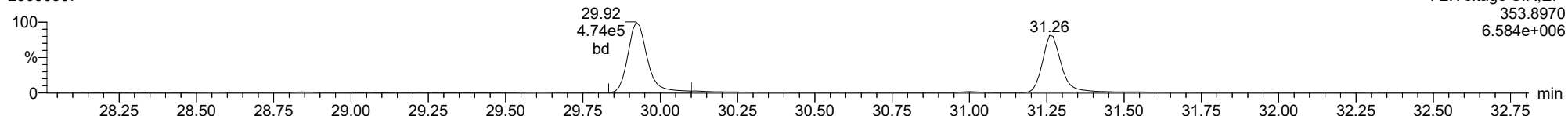
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23030307



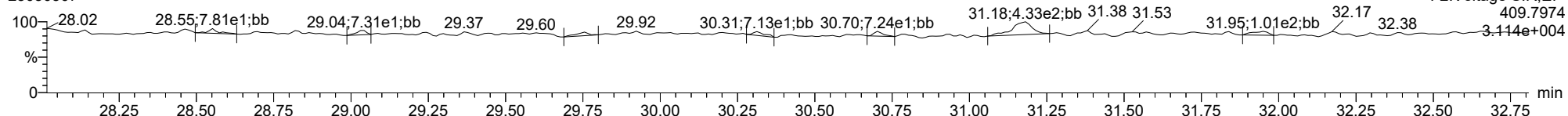
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23030307



**FUNCTION2 HPCDPE**

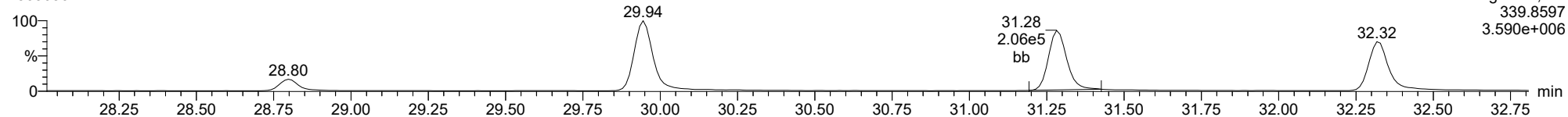
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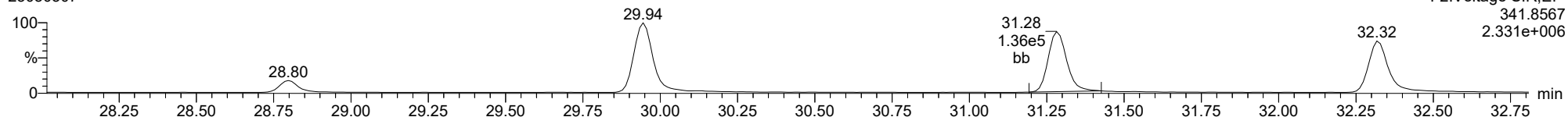
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23030307



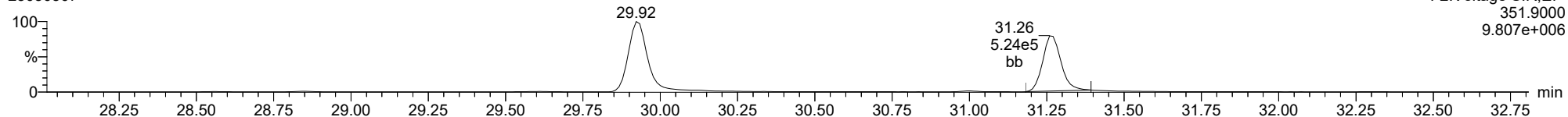
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23030307



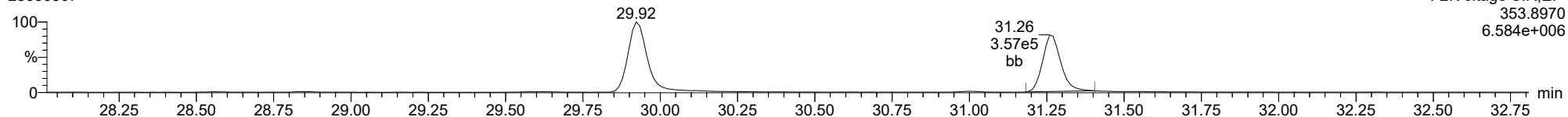
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23030307



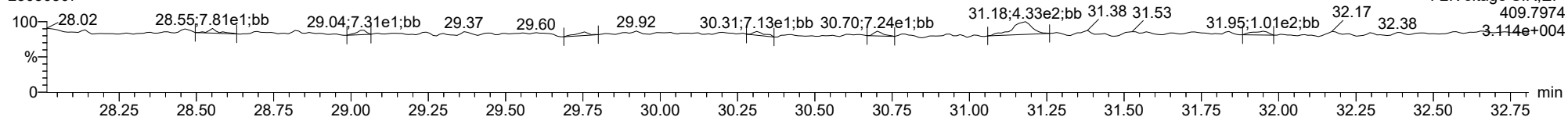
**13C-23478-PeCDF**

23030307



**FUNCTION2 HPCDPE**

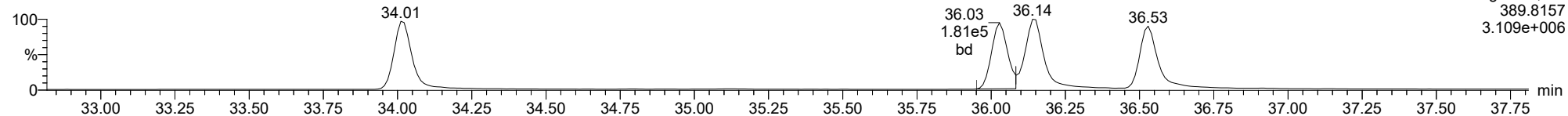
23030307



ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

**123478-HxCDD**

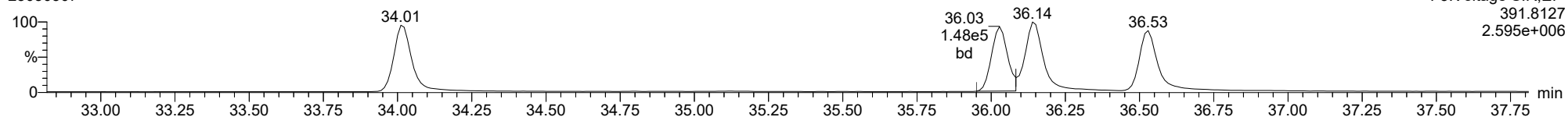
23030307



F3:Voltage SIR,El+  
389.8157  
3.109e+006

**123478-HxCDD**

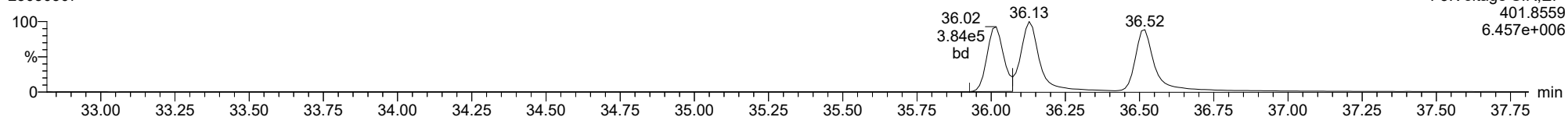
23030307



F3:Voltage SIR,El+  
391.8127  
2.595e+006

**13C-123478-HxCDD**

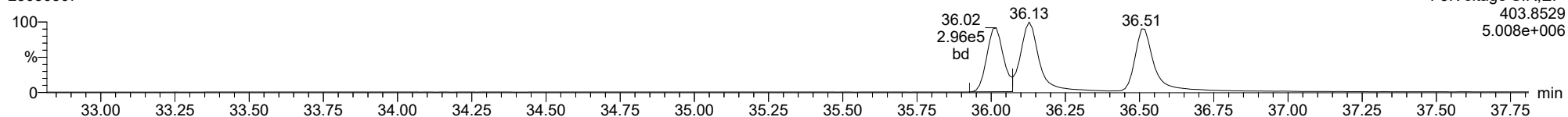
23030307



F3:Voltage SIR,El+  
401.8559  
6.457e+006

**13C-123478-HxCDD**

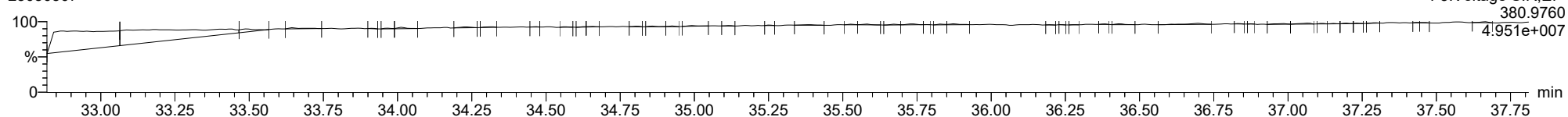
23030307



F3:Voltage SIR,El+  
403.8529  
5.008e+006

**FUNCTION3 PFK**

23030307

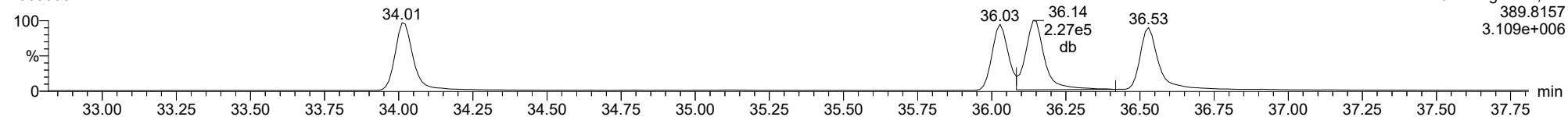


F3:Voltage SIR,El+  
380.9760  
4.951e+007

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

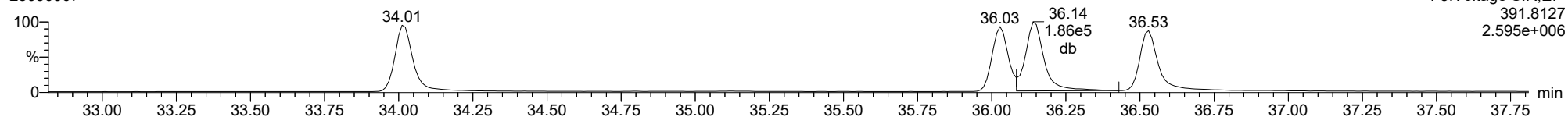
23030307



F3:Voltage SIR,EI+  
389.8157  
3.109e+006

**123678-HxCDD**

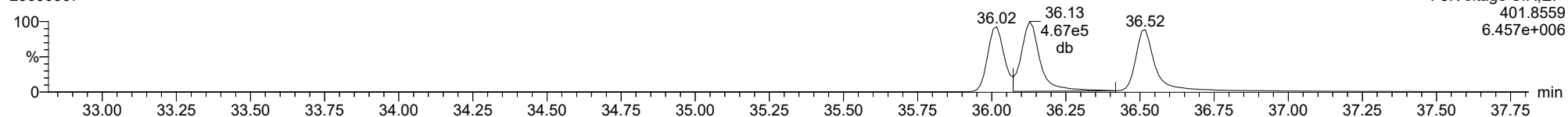
23030307



F3:Voltage SIR,EI+  
391.8127  
2.595e+006

**13C-123678-HxCDD**

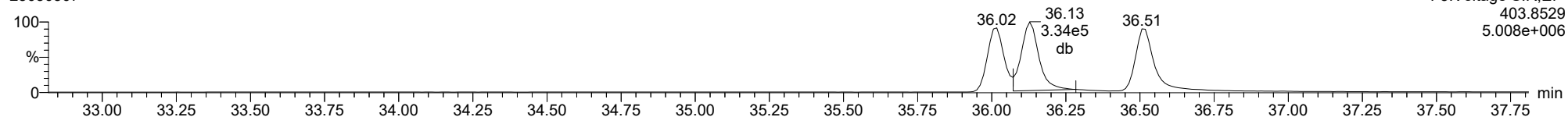
23030307



F3:Voltage SIR,EI+  
401.8559  
6.457e+006

**13C-123678-HxCDD**

23030307

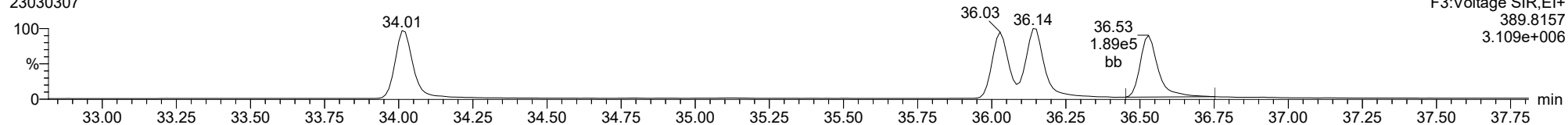


F3:Voltage SIR,EI+  
403.8529  
5.008e+006

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

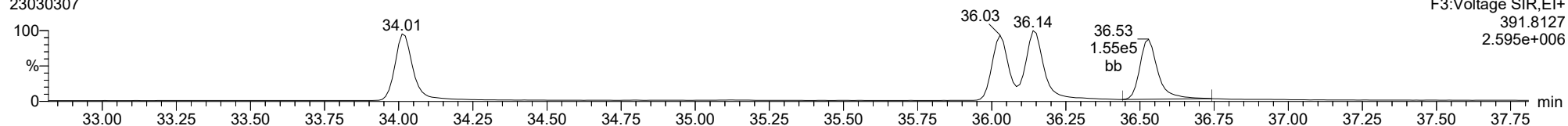
**123789-HxCDD**

23030307



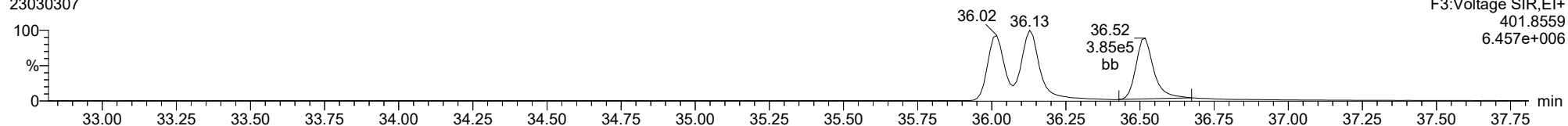
**123789-HxCDD**

23030307



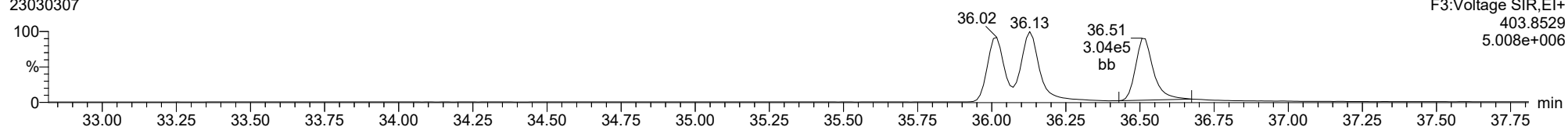
**13C-123789-HxCDD**

23030307



**13C-123789-HxCDD**

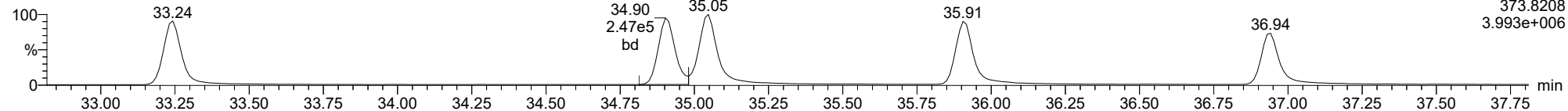
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ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

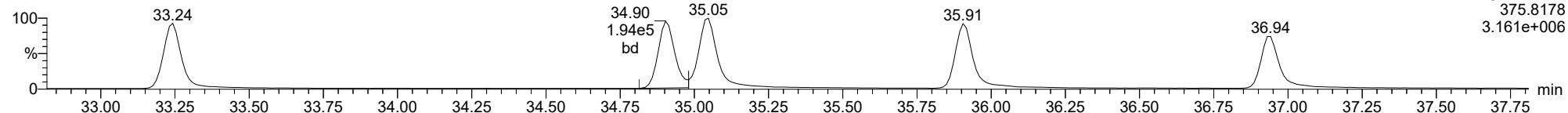
123478-HxCDF

23030307



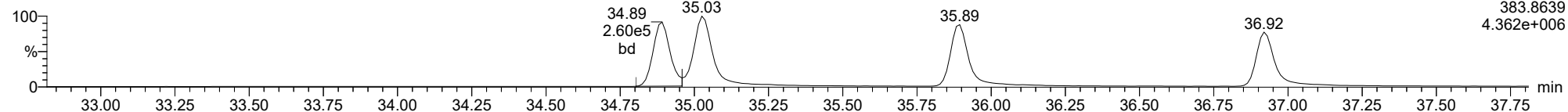
123478-HxCDF

23030307



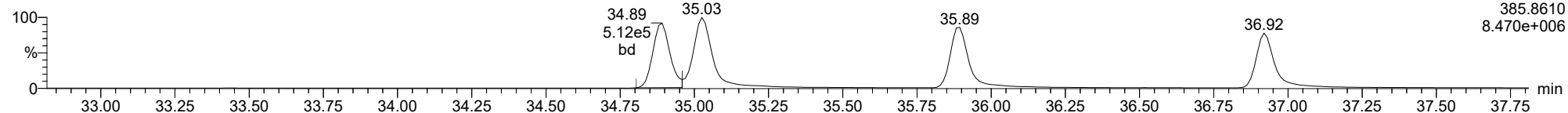
13C-123478-HxCDF

23030307



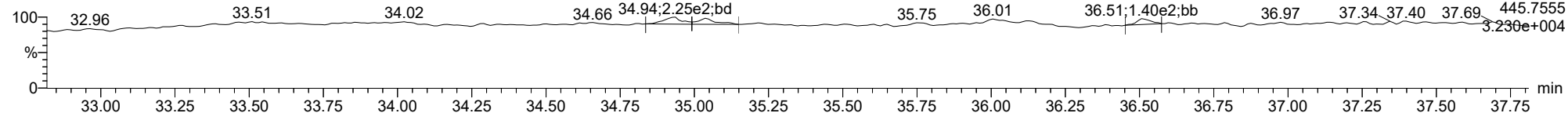
13C-123478-HxCDF

23030307



FUNCTION3 OCDPE

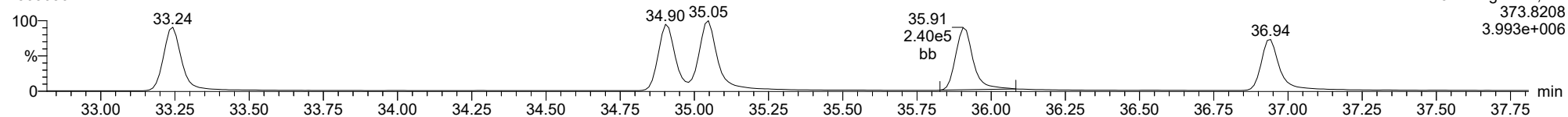
23030307



ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

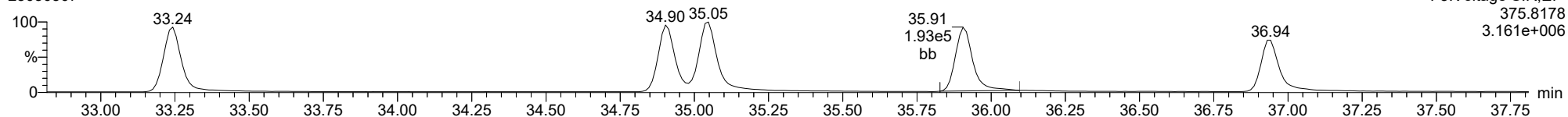
**234678-HxCDF**

23030307



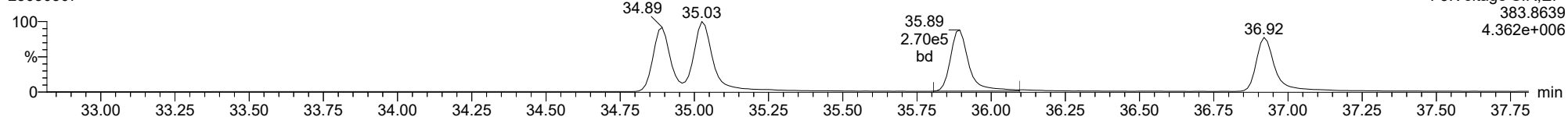
**234678-HxCDF**

23030307



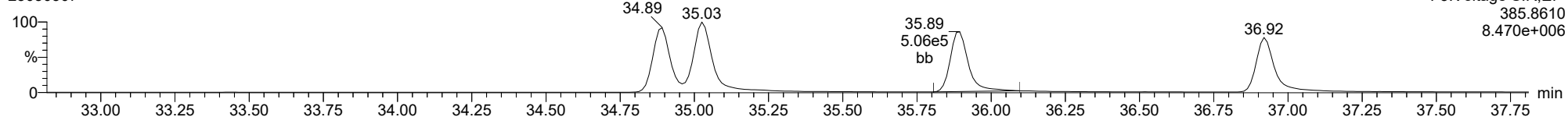
**13C-234678-HxCDF**

23030307



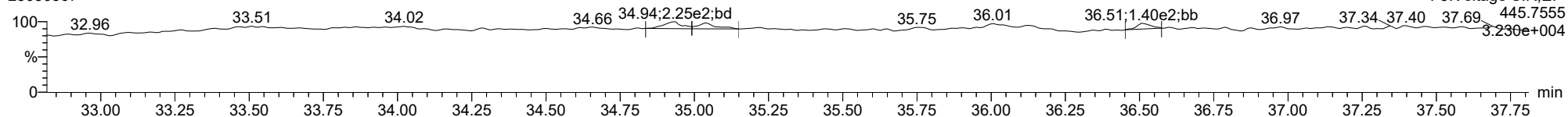
**13C-234678-HxCDF**

23030307



**FUNCTION3 OCDPE**

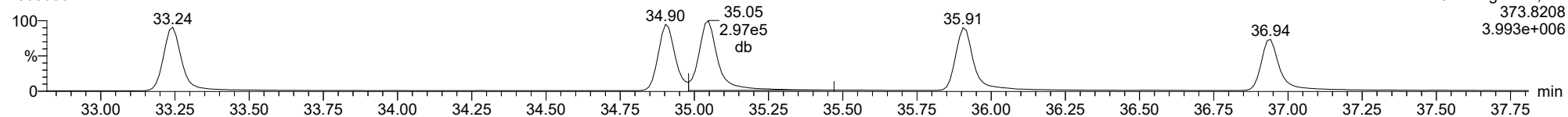
23030307



ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

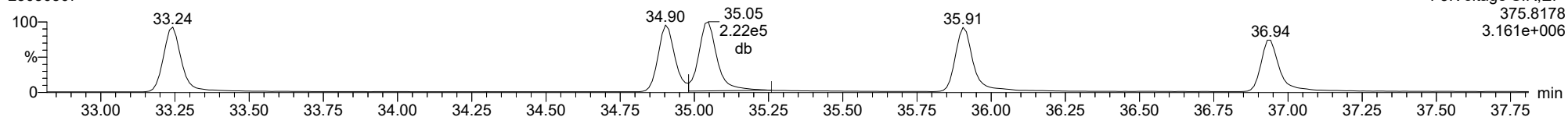
**123678-HxCDF**

23030307



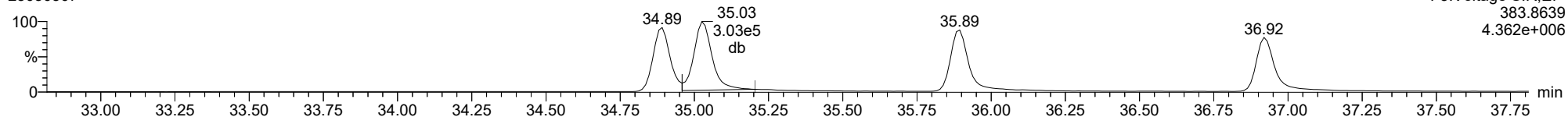
**123678-HxCDF**

23030307



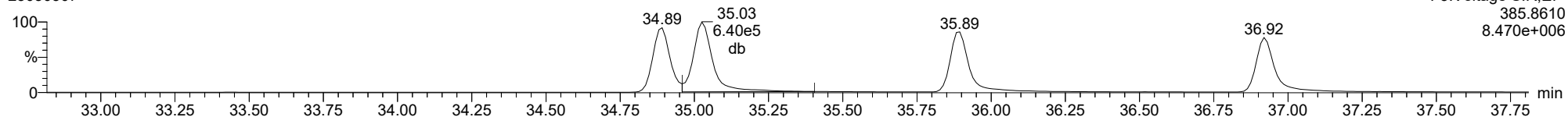
**13C-123678-HxCDF**

23030307



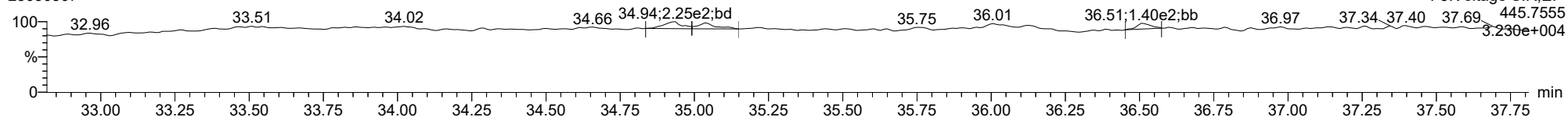
**13C-123678-HxCDF**

23030307



**FUNCTION3 OCDPE**

23030307

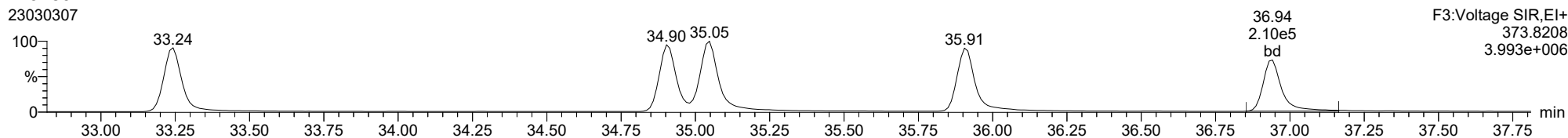




ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

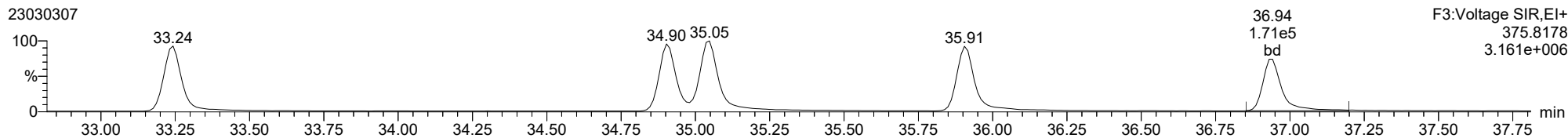
**123789-HxCDF**

23030307



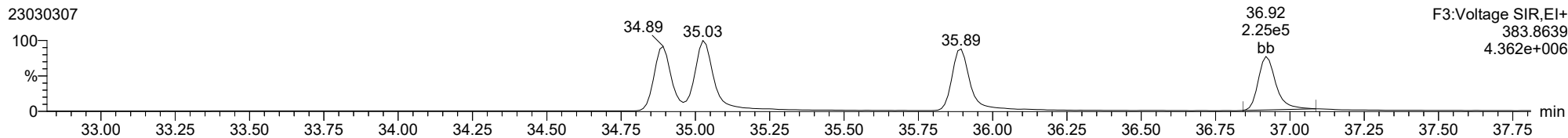
**123789-HxCDF**

23030307



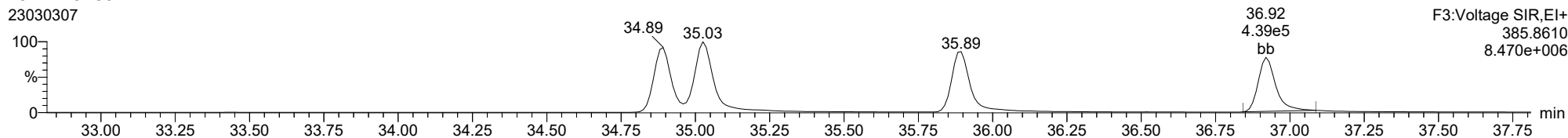
**13C-123789-HxCDF**

23030307



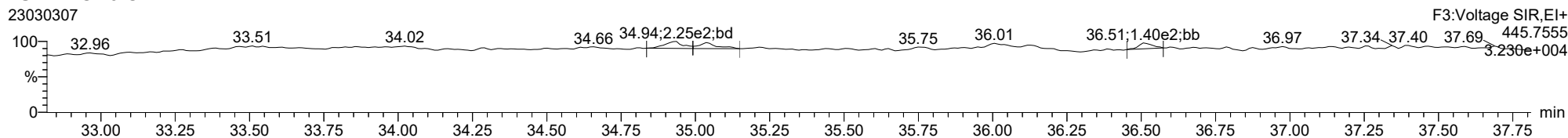
**13C-123789-HxCDF**

23030307



**FUNCTION3 OCDPE**

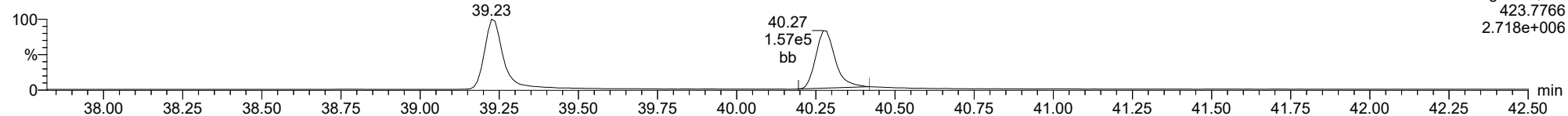
23030307



ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

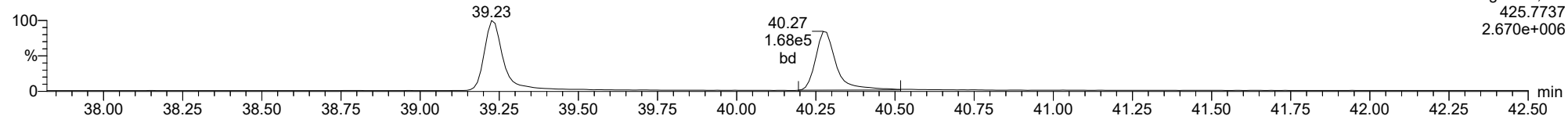
23030307



F4:Voltage SIR,EI+  
423.7766  
2.718e+006

**1234678-HpCDD**

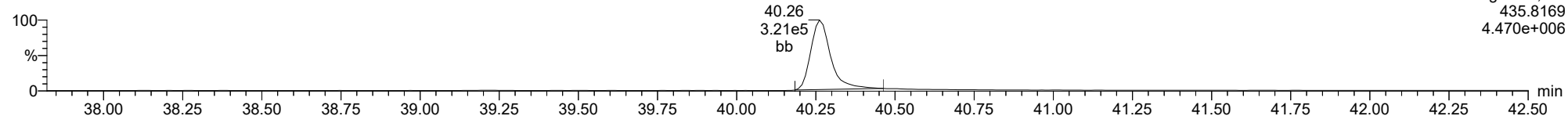
23030307



F4:Voltage SIR,EI+  
425.7737  
2.670e+006

**13C-1234678-HpCDD**

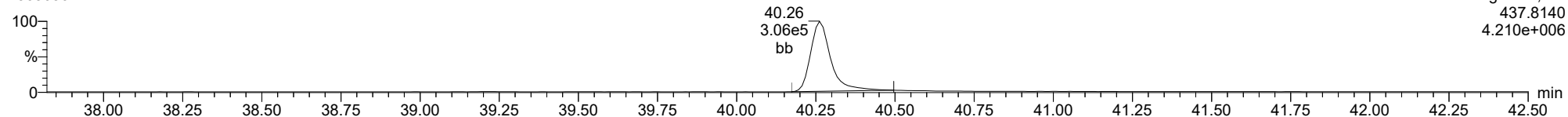
23030307



F4:Voltage SIR,EI+  
435.8169  
4.470e+006

**13C-1234678-HpCDD**

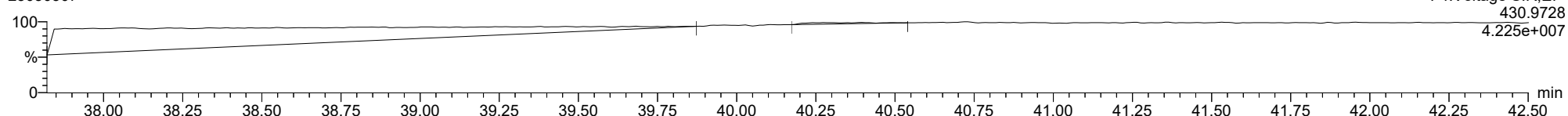
23030307



F4:Voltage SIR,EI+  
437.8140  
4.210e+006

**FUNCTION4 PFK**

23030307

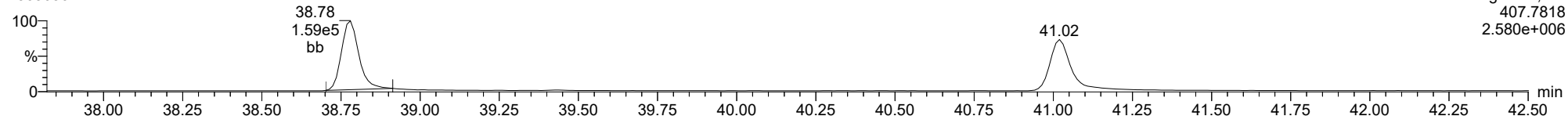


F4:Voltage SIR,EI+  
430.9728  
4.225e+007

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

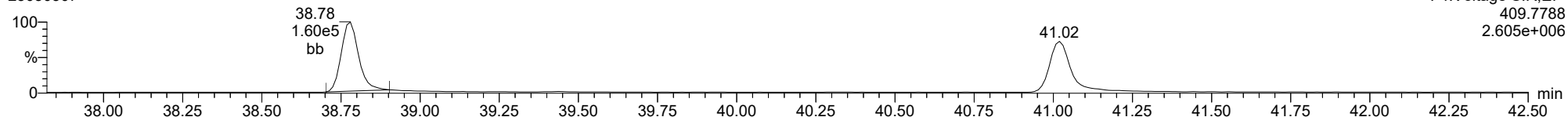
23030307



F4:Voltage SIR,EI+  
407.7818  
2.580e+006

1234678-HpCDF

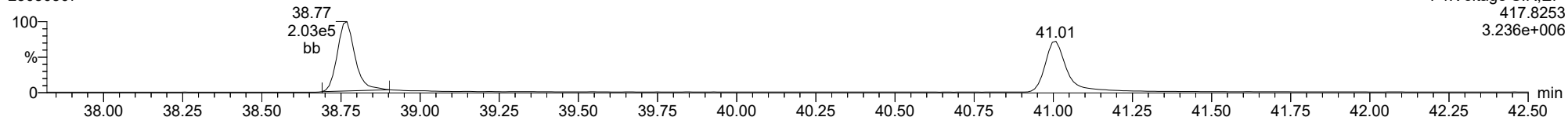
23030307



F4:Voltage SIR,EI+  
409.7788  
2.605e+006

13C-1234678-HpCDF

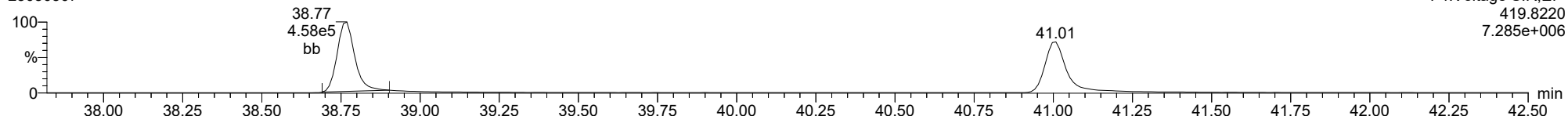
23030307



F4:Voltage SIR,EI+  
417.8253  
3.236e+006

13C-1234678-HpCDF

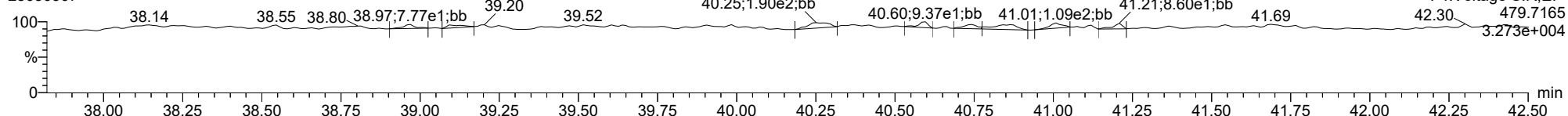
23030307



F4:Voltage SIR,EI+  
419.8220  
7.285e+006

FUNCTION4 NCDPE

23030307

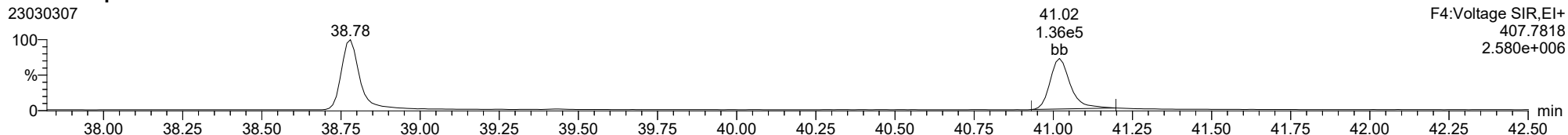


F4:Voltage SIR,EI+  
479.7165  
3.273e+004

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

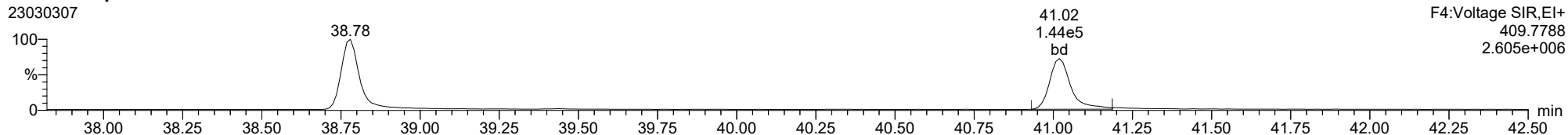
23030307



F4:Voltage SIR,El+  
407.7818  
2.580e+006

1234789-HpCDF

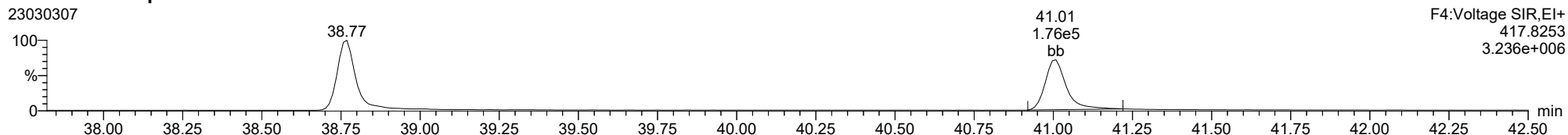
23030307



F4:Voltage SIR,El+  
409.7788  
2.605e+006

13C-1234789-HpCDF

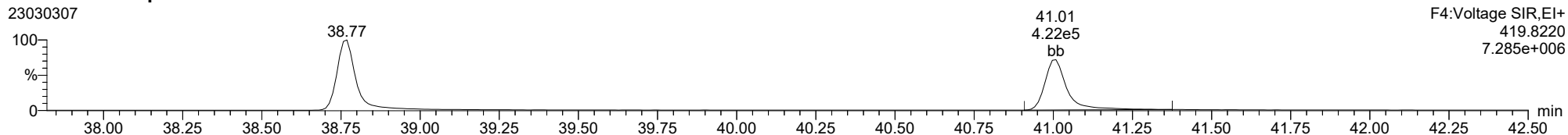
23030307



F4:Voltage SIR,El+  
417.8253  
3.236e+006

13C-1234789-HpCDF

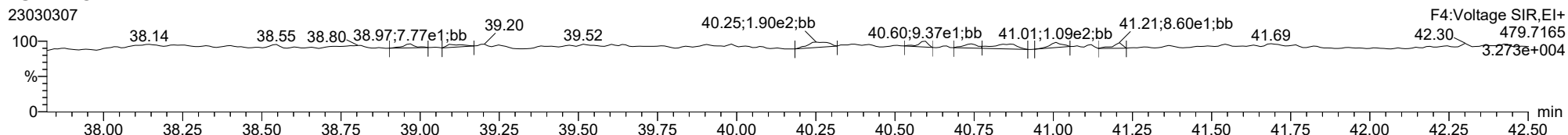
23030307



F4:Voltage SIR,El+  
419.8220  
7.285e+006

FUNCTION4 NCDPE

23030307

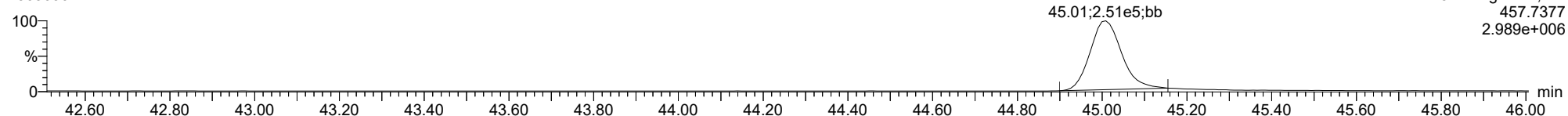


F4:Voltage SIR,El+  
479.7165  
3.273e+004

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

**OCDD**

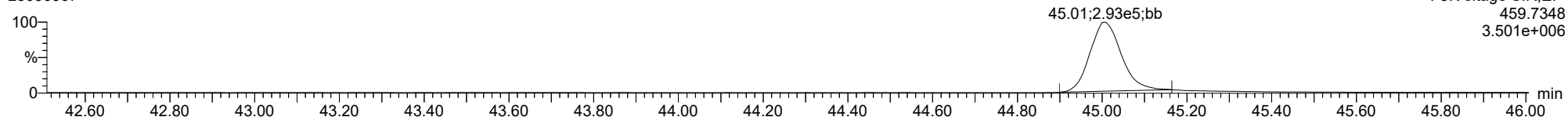
23030307



F5:Voltage SIR,EI+  
457.7377  
2.989e+006

**OCDD**

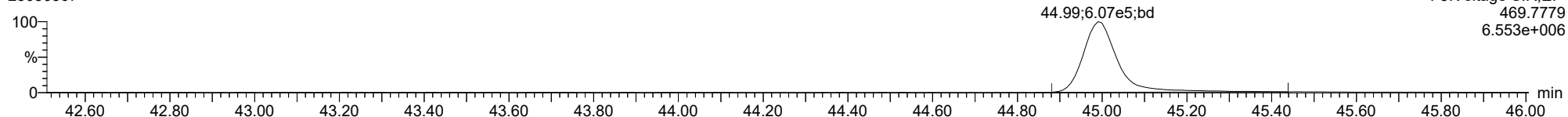
23030307



F5:Voltage SIR,EI+  
459.7348  
3.501e+006

**13C-OCDD**

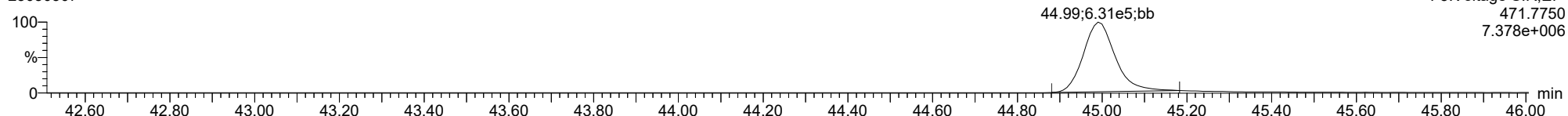
23030307



F5:Voltage SIR,EI+  
469.7779  
6.553e+006

**13C-OCDD**

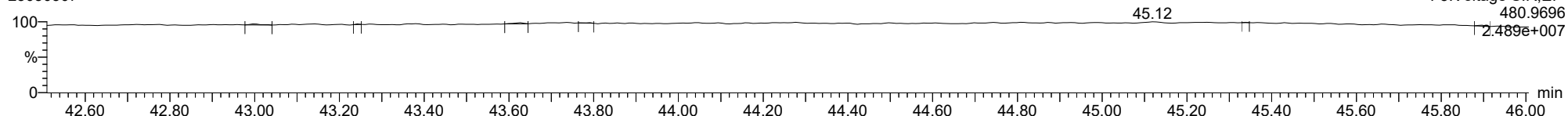
23030307



F5:Voltage SIR,EI+  
471.7750  
7.378e+006

**FUNCTION5 PFK**

23030307

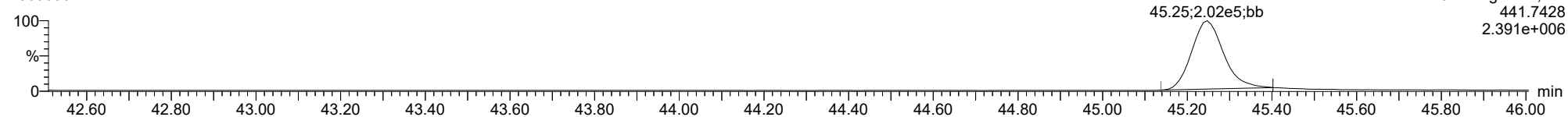


F5:Voltage SIR,EI+  
480.9696  
2.489e+007

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

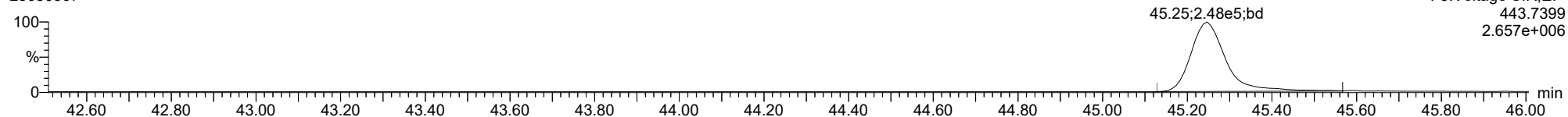
**OCDF**

23030307



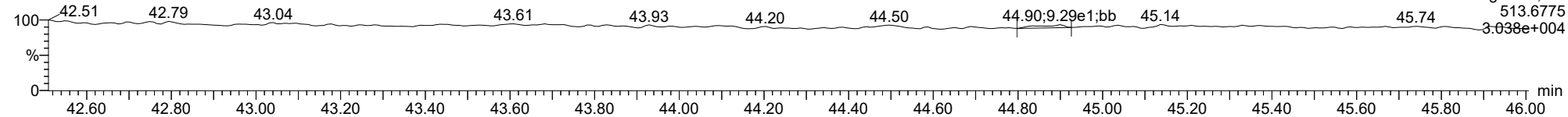
**OCDF**

23030307



**FUNCTION5 DCDPE**

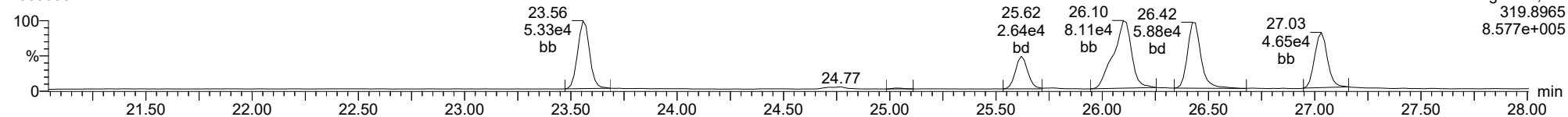
23030307



ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

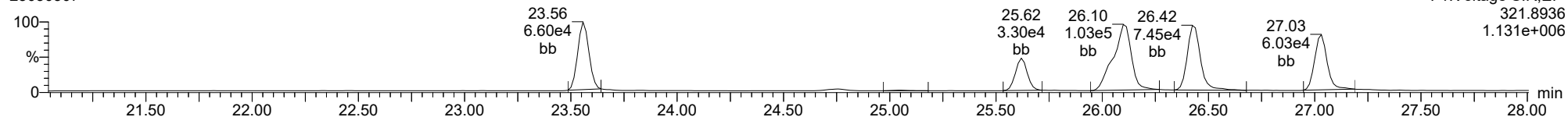
**Total-tetradoxins**

23030307



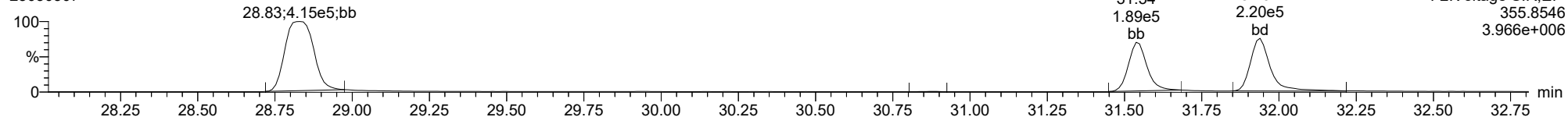
**Total-tetradoxins**

23030307



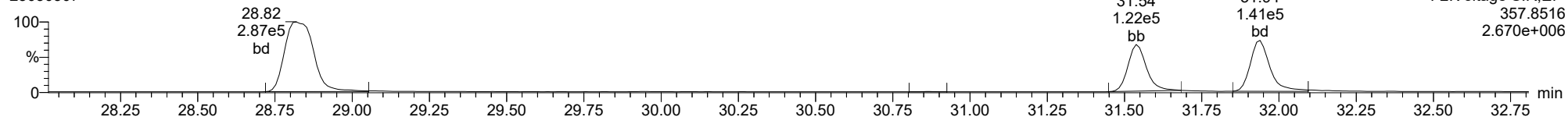
**Total-pentadoxins**

23030307



**Total-pentadoxins**

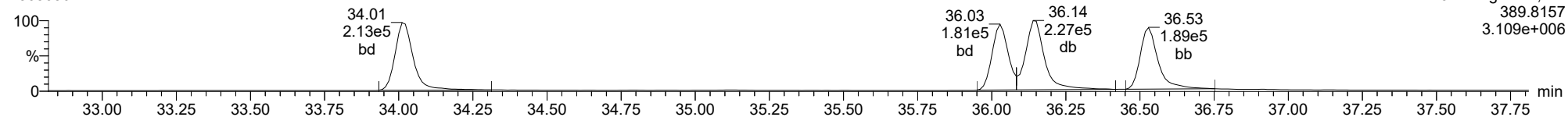
23030307



ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

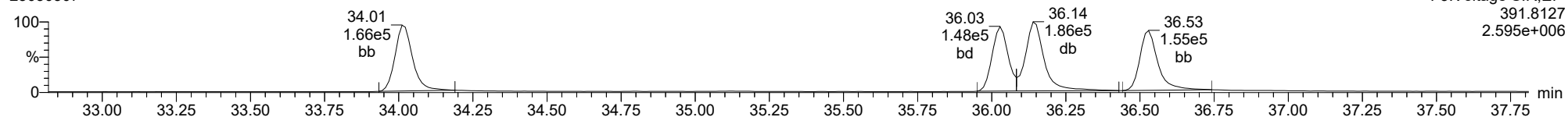
**Total-hexadioxins**

23030307



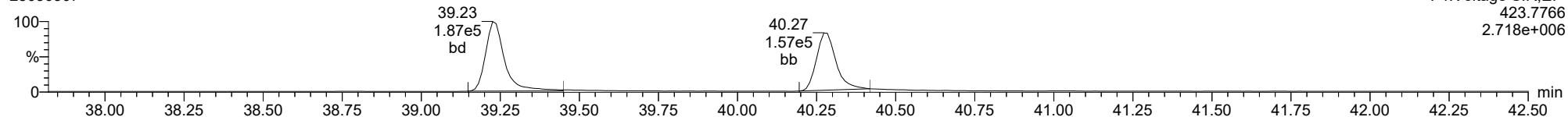
**Total-hexadioxins**

23030307



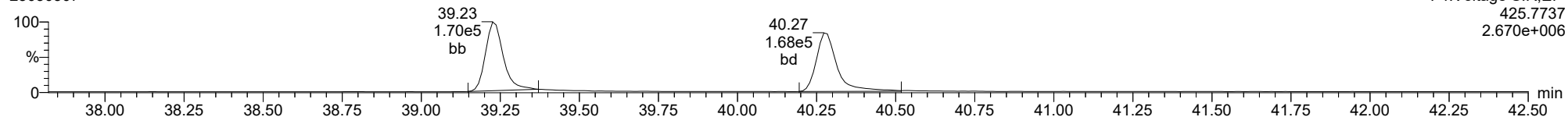
**Total-heptadioxins**

23030307



**Total-heptadioxins**

23030307

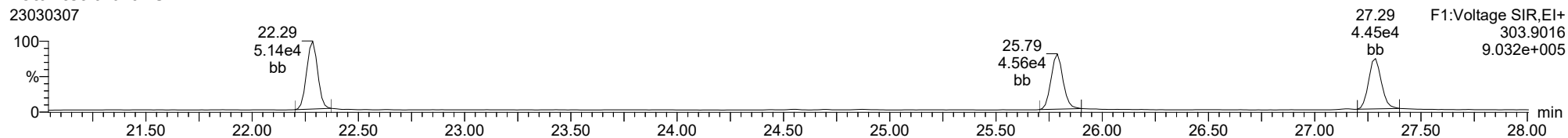




ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

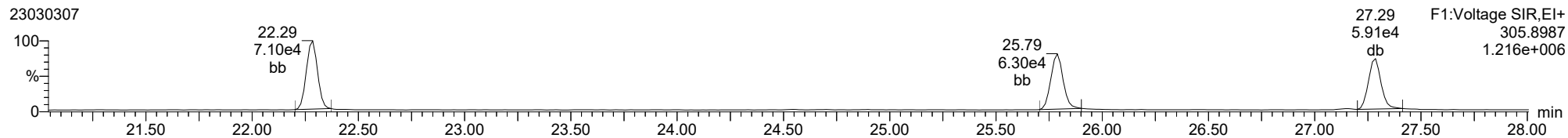
**Total-tetrafurans**

23030307



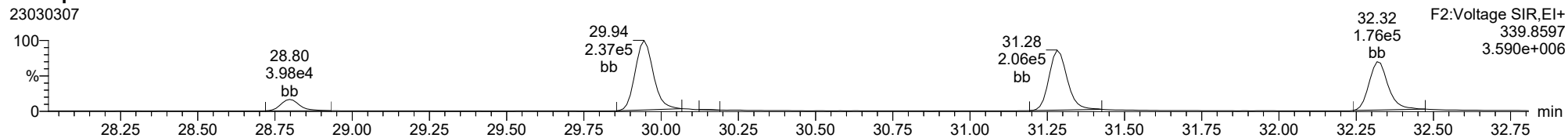
**Total-tetrafurans**

23030307



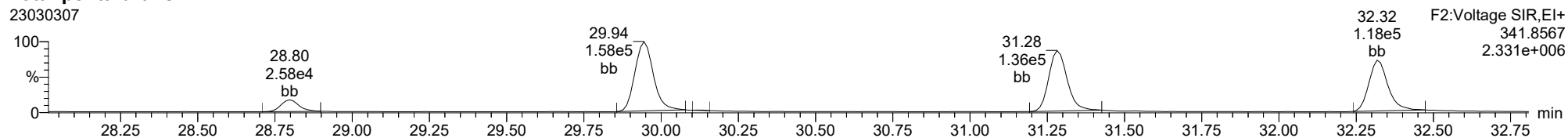
**Total-pentafurans**

23030307



**Total-pentafurans**

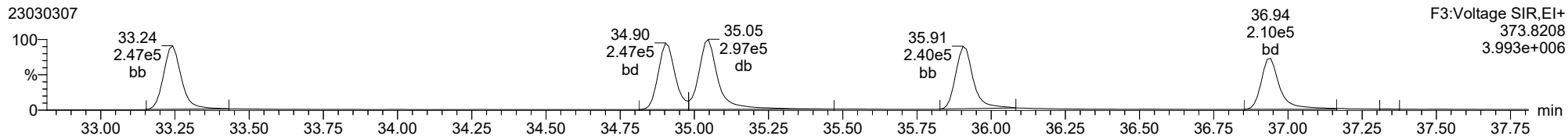
23030307



ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

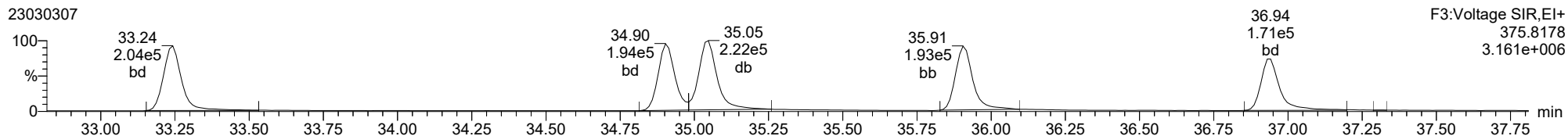
**Total-hexafurans**

23030307



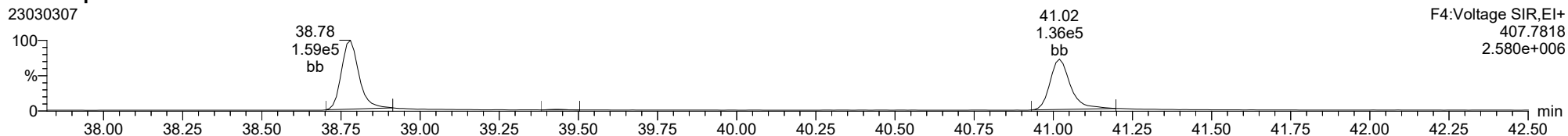
**Total-hexafurans**

23030307



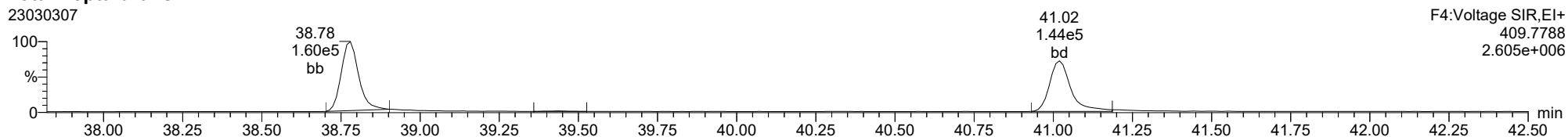
**Total-heptafurans**

23030307



**Total-heptafurans**

23030307



Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
**Calibration:** T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

**ID:** CS4CW, **Name:** 23030308, **Date:** 03-Mar-2023, **Time:** 14:59:53, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	2.145e5	2.910e5	0.702	0.737	0.770	1085	2356	3.19e6	4.36e6	2939.3	1849.8	NO	bb	bb	41.038
12378-PeCDF	29.944	1.000	1.256e6	8.416e5	0.679	1.492	1.550	4273	3650	1.86e7	1.25e7	4360.5	3425.9	NO	bb	bb	202.935
23478-PeCDF	31.292	1.001	1.346e6	8.943e5	0.786	1.505	1.550	4273	3650	2.02e7	1.34e7	4738.5	3680.0	NO	bb	bb	201.175
123478-HxCDF	34.913	1.001	1.546e6	1.218e6	1.166	1.269	1.240	1919	2508	2.36e7	1.86e7	12323.4	7421.9	NO	bd	bd	197.711
234678-HxCDF	35.916	1.001	1.547e6	1.307e6	1.140	1.184	1.240	1919	2508	2.33e7	1.85e7	12125.4	7387.3	NO	bb	bd	210.207
123678-HxCDF	35.047	1.000	1.740e6	1.369e6	1.091	1.271	1.240	1919	2508	2.57e7	2.04e7	13394.0	8153.6	NO	db	db	189.797
123789-HxCDF	36.941	1.000	1.209e6	1.036e6	1.137	1.167	1.240	1919	2508	1.81e7	1.44e7	9441.6	5749.5	NO	bb	bd	200.361
1234678-HpCDF	38.779	1.000	8.720e5	8.418e5	1.003	1.036	1.050	3326	3780	1.44e7	1.42e7	4339.3	3745.4	NO	bb	bb	204.650
1234789-HpCDF	41.019	1.000	7.221e5	7.262e5	0.953	0.994	1.050	3326	3780	1.01e7	1.02e7	3041.3	2689.4	NO	bb	bb	208.465
OCDF	45.255	1.006	1.195e6	1.333e6	0.778	0.897	0.890	1809	2070	1.43e7	1.59e7	7923.8	7701.9	NO	bb	bb	419.788
2378-TCDD	26.438	1.001	2.573e5	3.218e5	1.149	0.799	0.770	1559	1107	3.81e6	4.84e6	2446.0	4371.1	NO	bb	bb	39.968
12378-PeCDD	31.549	1.001	1.294e6	8.446e5	1.022	1.532	1.550	1566	1736	1.89e7	1.24e7	12077.0	7164.9	NO	bb	bb	199.637
123478-HxCDD	36.027	1.000	1.162e6	9.482e5	0.996	1.225	1.240	1816	1276	1.93e7	1.57e7	10622.2	12327.7	NO	bd	bd	198.133
123678-HxCDD	36.150	1.001	1.363e6	1.125e6	1.001	1.212	1.240	1816	1276	1.97e7	1.61e7	10823.8	12618.8	NO	db	db	204.224
123789-HxCDD	36.528	1.011	1.168e6	9.477e5	0.907	1.232	1.240	1816	1276	1.77e7	1.44e7	9764.9	11291.0	NO	bb	bb	203.974
1234678-HpCDD	40.283	1.001	8.284e5	8.038e5	1.039	1.031	1.050	3177	2938	1.22e7	1.19e7	3841.2	4046.8	NO	bb	bb	198.376
OCDD	45.008	1.000	1.293e6	1.512e6	0.920	0.855	0.890	1475	2373	1.59e7	1.85e7	10744.0	7810.6	NO	bb	bb	394.016
13C-2378-TCDF	25.774	1.007	7.645e5	9.914e5	1.620	0.771	0.770	1843	2282	1.15e7	1.49e7	6238.3	6526.6	NO	bb	bb	101.535
13C-12378-PeCDF	29.933	1.169	9.119e5	6.098e5	1.240	1.495	1.550	3738	4574	1.28e7	8.50e6	3418.3	1857.5	NO	bd	bd	114.934
13C-23478-PeCDF	31.270	1.221	8.522e5	5.645e5	1.118	1.510	1.550	3738	4574	1.28e7	8.47e6	3423.2	1851.3	NO	bb	bb	118.746
13C-123478-HxCDF	34.891	0.956	4.043e5	7.946e5	1.168	0.509	0.510	3379	2646	6.26e6	1.23e7	1851.5	4643.3	NO	bd	bd	93.689
13C-123678-HxCDF	35.036	0.959	5.122e5	9.895e5	1.386	0.518	0.510	3379	2646	6.72e6	1.32e7	1988.7	4975.1	NO	db	dd	98.879
13C-234678-HxCDF	35.894	0.983	4.066e5	7.845e5	1.129	0.518	0.510	3379	2646	6.03e6	1.18e7	1785.1	4452.3	NO	bb	bb	96.294
13C-123789-HxCDF	36.930	1.011	3.312e5	6.542e5	0.932	0.506	0.510	3379	2646	4.85e6	9.52e6	1434.9	3598.2	NO	bb	bb	96.556
13C-1234678-HpCDF	38.768	1.062	2.524e5	5.825e5	0.895	0.433	0.440	1935	3511	4.16e6	9.49e6	2148.5	2703.4	NO	bb	bb	85.151
13C-1234789-HpCDF	41.007	1.123	2.205e5	5.084e5	0.770	0.434	0.440	1935	3511	3.02e6	6.92e6	1559.8	1971.4	NO	bb	bb	86.451
13C-1234-TCDD	25.605	0.000	4.743e5	5.931e5	1.000	0.800	0.770	2271	1813	7.33e6	9.12e6	3228.4	5028.5	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	5.640e5	6.974e5	1.152	0.809	0.770	2271	1813	8.09e6	1.01e7	3563.4	5571.0	NO	bb	bb	102.553
13C-12378-PeCDD	31.526	1.231	6.480e5	4.003e5	0.829	1.619	1.550	1212	1529	9.47e6	5.85e6	7814.9	3827.1	NO	bb	bb	118.505
13C-123478-HxCDD	36.016	0.986	6.052e5	4.646e5	0.995	1.303	1.240	1807	1475	9.78e6	7.54e6	5412.5	5108.2	NO	bd	bd	98.154
13C-123678-HxCDD	36.127	0.989	6.753e5	5.418e5	1.157	1.246	1.240	1807	1475	1.01e7	8.01e6	5594.1	5426.8	NO	db	db	96.059
13C-1234678-HpCDD	40.261	1.102	3.968e5	3.950e5	0.840	1.005	1.050	2357	2248	5.68e6	5.37e6	2408.3	2387.8	NO	bb	bb	86.051
13C-OCDD	44.999	1.232	7.332e5	8.149e5	0.767	0.900	0.890	1459	1173	8.67e6	9.61e6	5943.8	8191.6	NO	bb	bb	184.151
13C-123789-HxCDD	36.518	0.000	6.173e5	4.781e5	1.000	1.291	1.240	1807	1475	9.34e6	7.24e6	5171.1	4908.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.438	1.033	5.280e5		1.288			2576		7.74e6		3003.1			bb		38.410

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1085	2356								
1289-TCDF					0.678		0.770	1085	2356								
13468-PECDF					1.246		1.550	728	1112								
12389-PECDF					0.496		1.550	4273	3650								
123468-HXCDF					1.169		1.240	1919	2508								
1368-TCDD					1.015		0.770	1559	1107								
1289-TCDD					0.909		0.770	1559	1107								
12479-PECDD					2.301		1.550	1566	1736								
12389-PECDD					1.184		1.550	1566	1736								
124679-HXCDD					1.115		1.240	1816	1276								
1234679-HPCDD					1.137		1.050	3177	2938								
Total-tetrafurans			2.178e5		0.727			1085		3.24e6							41.692
Total-penta1			0.000e0					728		0.00e0							
Total-pentafurans			2.604e6		0.654			4273		3.89e7							404.382
Total-hexafurans			6.043e6		1.141			1919		9.07e7							798.266
Total-heptafurans			1.594e6		0.978			3326		2.45e7							413.115
Total-Furans			1.165e7		0.922			1085		1.72e8							2077.243
Total-tetradoxins			2.634e5		1.024			1559		3.88e6							41.026
Total-pentadoxins			1.295e6		1.502			1566		1.89e7							199.743
Total-hexadoxins			3.693e6		1.005			1816		5.67e7							606.331
Total-heptadoxins			8.286e5		1.088			3177		1.22e7							198.425
Total-Dioxins			7.373e6		1.130			1559		1.08e8							1439.540
Total-TEQ			1.903e7					1559		2.79e8							3516.783
FUNCTION1 PFK			2.654e6					566854		2.19e6							
FUNCTION2 PFK			2.398e5					242860		6.75e6							0.000
FUNCTION3 PFK			5.441e7					394639		2.11e7							0.000
FUNCTION4 PFK			0.000e0					306708		0.00e0							
FUNCTION5 PFK			3.395e4					230570		1.65e6							
FUNCTION1 HXCD...			4.934e2					625		6.74e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.574e3					915		2.35e4							0.000
FUNCTION3 OCDPE			8.696e2					844		1.47e4							0.000
FUNCTION4 NCDPE			3.767e2					925		5.85e3							0.000
FUNCTION5 DCDPE			0.000e0					629		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

**Calibration:** T:\Autospec\Curves\230303\CIH.cdb 06 Mar 2023 10:57:27

**ID:** CS4CW, **Name:** 23030308, **Date:** 03-Mar-2023, **Time:** 14:59:53, **Conditions:** AUTOSPEC01, **User:** pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
2	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
3	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
2	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
3	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
4	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
5	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
6	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
2	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

**ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352
4	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
5	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
6	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175
7	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
8	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
9	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
10	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
11	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
12	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169
13	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
14	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465
15	OCDF	45.26	1.195e6	1.333e6	0.778	0.90	0.89	7923.8	YES	NO	bb	bb	419.788

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
2	Total-tetradoxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
2	Total-pentadoxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
2	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
3	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

**ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk**

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
2	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
2	Total-tetradioxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059
3	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
4	Total-pentadioxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106
5	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
6	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
7	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133
8	Total-heptadioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
9	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376
10	OCDD	45.01	1.293e6	1.512e6	0.920	0.86	0.89	10744.0	YES	NO	bb	bb	394.016

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

**ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk**

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352
4	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
5	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
6	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175
7	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
8	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
9	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
10	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
11	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
12	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169
13	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
14	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465
15	OCDF	45.26	1.195e6	1.333e6	0.778	0.90	0.89	7923.8	YES	NO	bb	bb	419.788
16	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
17	Total-tetradiioxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059
18	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
19	Total-pentadiioxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106
20	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
21	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
22	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133
23	Total-heptadiioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
24	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376
25	OCDD	45.01	1.293e6	1.512e6	0.920	0.86	0.89	10744.0	YES	NO	bb	bb	394.016

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.75	1.219e6					0.4	NO		bb		
2	FUNCTION1 PFK	21.17	1.435e6					3.4	YES		bb		



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

**ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk**

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.26	4.048e3					0.9	NO		bb		0.000
2	FUNCTION2 PFK	28.22	4.511e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	28.09	1.180e4					1.6	NO		bb		0.000
4	FUNCTION2 PFK	32.40	7.400e3					1.4	NO		bd		0.000
5	FUNCTION2 PFK	31.78	3.780e3					0.8	NO		db		0.000
6	FUNCTION2 PFK	31.75	1.880e3					0.6	NO		bd		0.000
7	FUNCTION2 PFK	31.70	9.648e3					1.7	NO		db		0.000
8	FUNCTION2 PFK	31.63	2.054e4					2.2	NO		bd		0.000
9	FUNCTION2 PFK	31.52	5.247e4					2.4	NO		db		0.000
10	FUNCTION2 PFK	31.37	1.454e4					1.4	NO		bd		0.000
11	FUNCTION2 PFK	31.10	7.031e3					1.1	NO		bb		0.000
12	FUNCTION2 PFK	30.32	1.036e4					1.3	NO		bb		0.000
13	FUNCTION2 PFK	30.01	2.058e3					0.8	NO		bb		0.000
14	FUNCTION2 PFK	29.82	6.711e3					1.2	NO		db		0.000
15	FUNCTION2 PFK	29.78	1.288e4					1.7	NO		bd		0.000
16	FUNCTION2 PFK	29.02	5.997e3					0.8	NO		bb		0.000
17	FUNCTION2 PFK	28.82	2.827e4					1.7	NO		bb		0.000
18	FUNCTION2 PFK	28.47	4.519e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	28.42	5.823e3					1.1	NO		bb		0.000
20	FUNCTION2 PFK	32.71	1.137e4					1.6	NO		bb		0.000
21	FUNCTION2 PFK	32.44	1.418e4					1.8	NO		db		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.64	7.406e6					25.3	YES		db		0.000
2	FUNCTION3 PFK	36.25	4.701e7					28.1	YES		bd		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

**ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk**

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.68	7.516e3					1.5	NO		bb		
2	FUNCTION5 PFK	45.50	5.255e3					1.2	NO		bb		
3	FUNCTION5 PFK	43.66	5.108e3					1.2	NO		bb		
4	FUNCTION5 PFK	43.06	3.867e3					1.1	NO		bb		
5	FUNCTION5 PFK	42.63	1.220e4					2.1	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.64	8.072e1					1.8	NO		bb		0.000
2	FUNCTION1 HXCD...	21.44	1.165e2					2.1	NO		db		0.000
3	FUNCTION1 HXCD...	21.34	7.544e1					2.3	NO		bd		0.000
4	FUNCTION1 HXCD...	26.42	1.399e2					2.7	NO		bb		0.000
5	FUNCTION1 HXCD...	21.99	8.086e1					2.0	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.18	1.574e3					25.7	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.15	3.227e2					5.7	YES		db		0.000
2	FUNCTION3 OCDPE	36.03	2.331e2					4.4	YES		bd		0.000
3	FUNCTION3 OCDPE	35.36	1.234e2					4.0	YES		bb		0.000
4	FUNCTION3 OCDPE	35.06	1.904e2					3.3	YES		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.00	2.677e2					3.2	YES		bb		0.000
2	FUNCTION4 NCDPE	38.18	1.090e2					3.1	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

**ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk**

**ETHERS6**

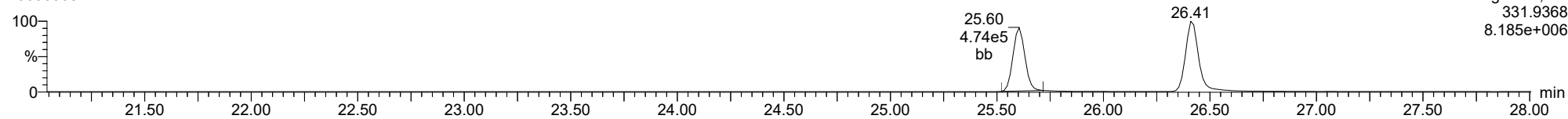
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1													

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

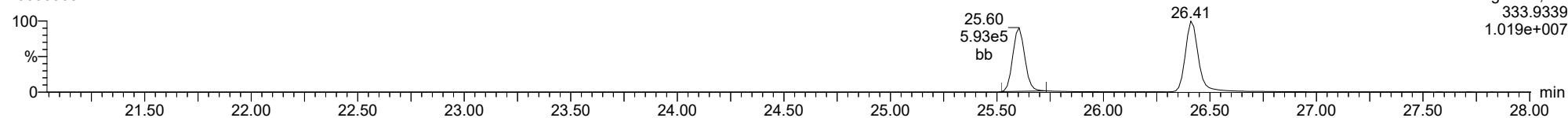
**13C-1234-TCDD**

23030308



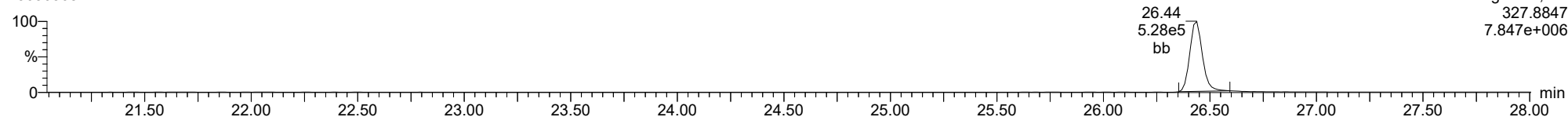
**13C-1234-TCDD**

23030308



**37CL-2378-TCDD**

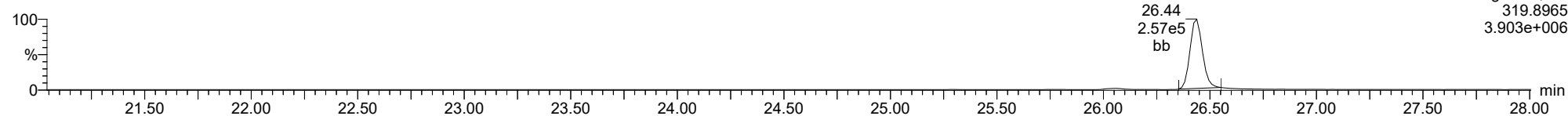
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

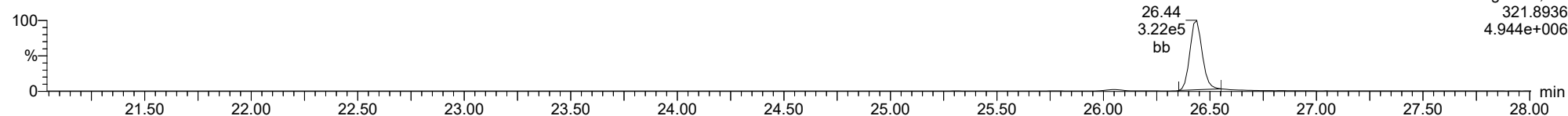
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F1:Voltage SIR,EI+  
319.8965  
3.903e+006

**2378-TCDD**

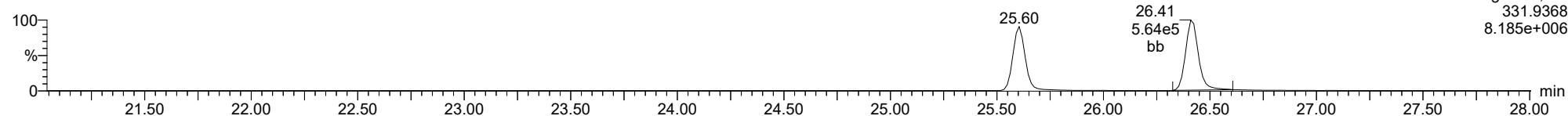
23030308



F1:Voltage SIR,EI+  
321.8936  
4.944e+006

**13C-2378-TCDD**

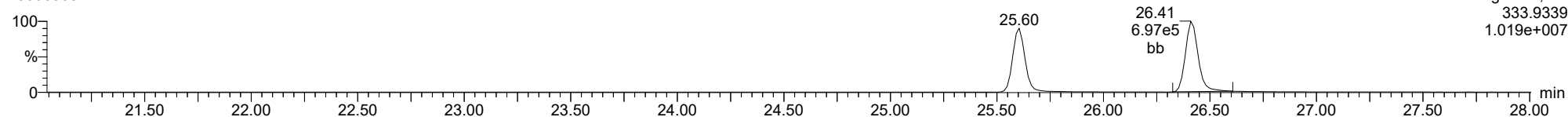
23030308



F1:Voltage SIR,EI+  
331.9368  
8.185e+006

**13C-2378-TCDD**

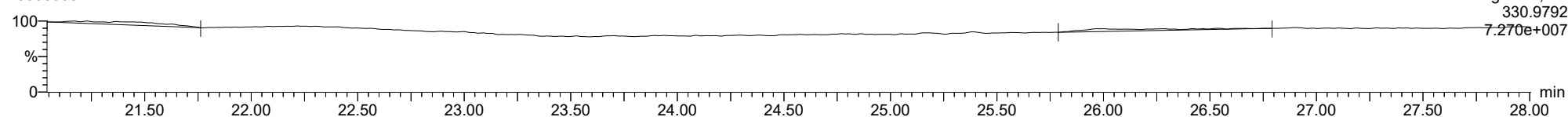
23030308



F1:Voltage SIR,EI+  
333.9339  
1.019e+007

**FUNCTION1 PFK**

23030308

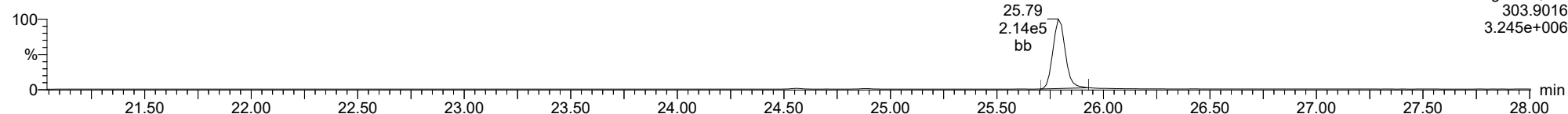


F1:Voltage SIR,EI+  
330.9792  
7.270e+007

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

**2378-TCDF**

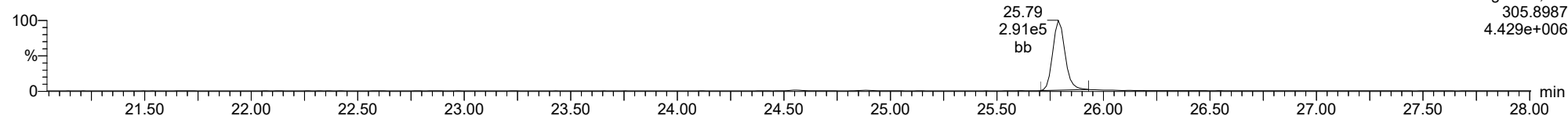
23030308



F1:Voltage SIR,EI+  
303.9016  
3.245e+006

**2378-TCDF**

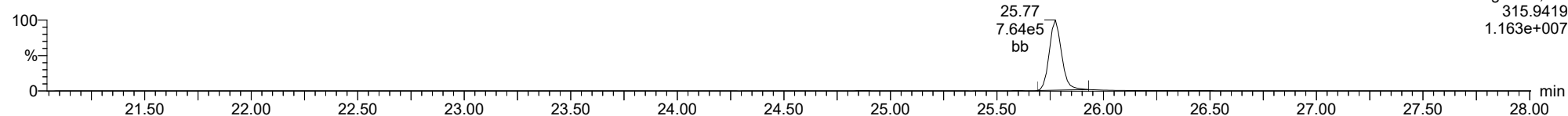
23030308



F1:Voltage SIR,EI+  
305.8987  
4.429e+006

**13C-2378-TCDF**

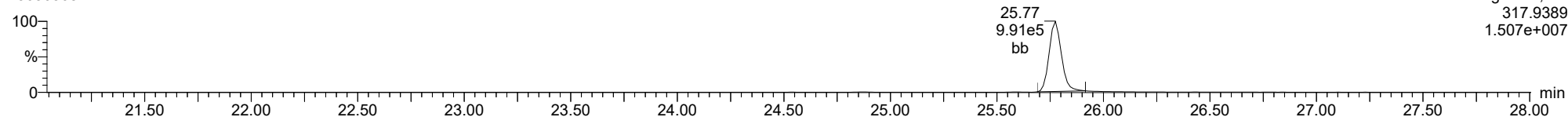
23030308



F1:Voltage SIR,EI+  
315.9419  
1.163e+007

**13C-2378-TCDF**

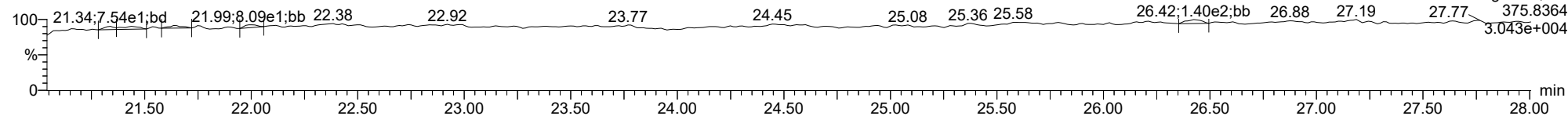
23030308



F1:Voltage SIR,EI+  
317.9389  
1.507e+007

**FUNCTION1 HXCDPE**

23030308

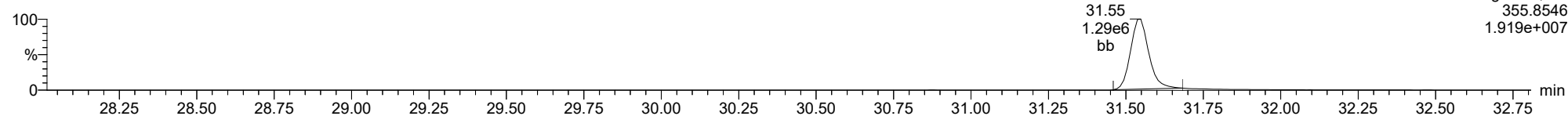


F1:Voltage SIR,EI+  
375.8364  
3.043e+004

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

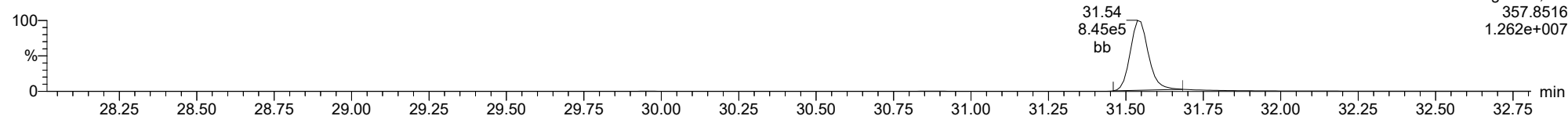
**12378-PeCDD**

23030308



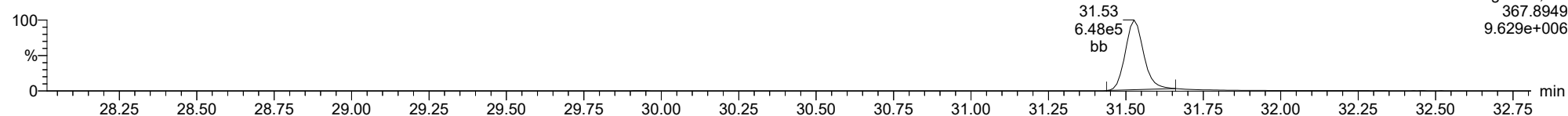
**12378-PeCDD**

23030308



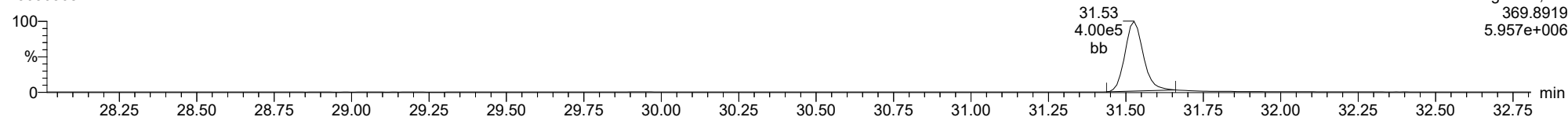
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23030308



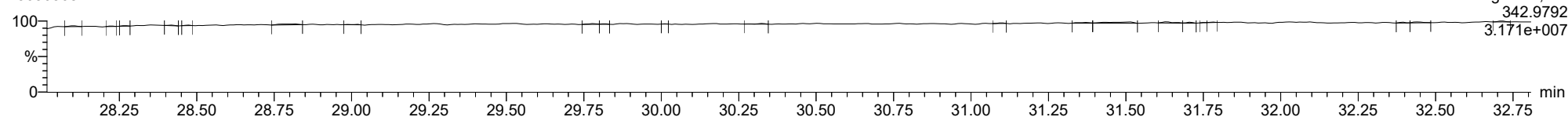
**13C-12378-PeCDD**

23030308



**FUNCTION2 PFK**

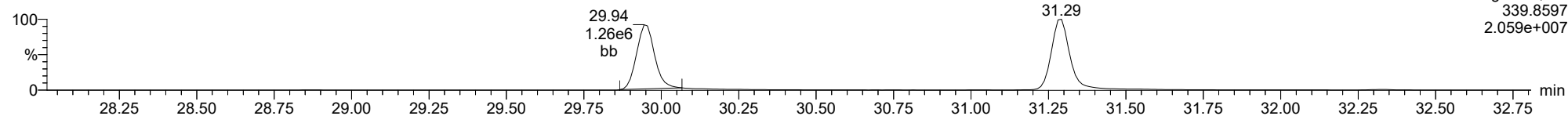
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

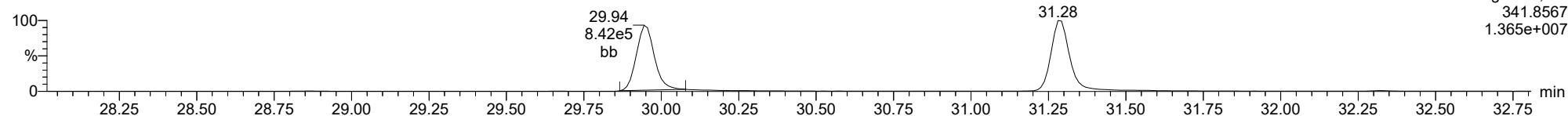
**12378-PeCDF**

23030308



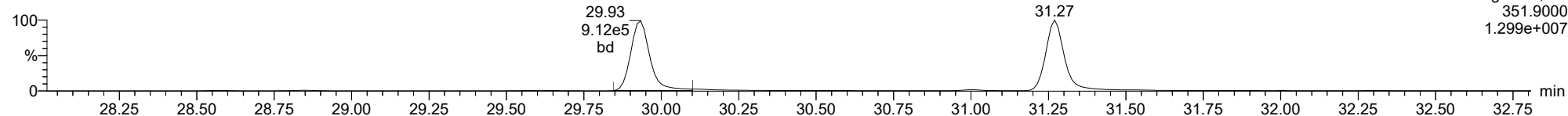
**12378-PeCDF**

23030308



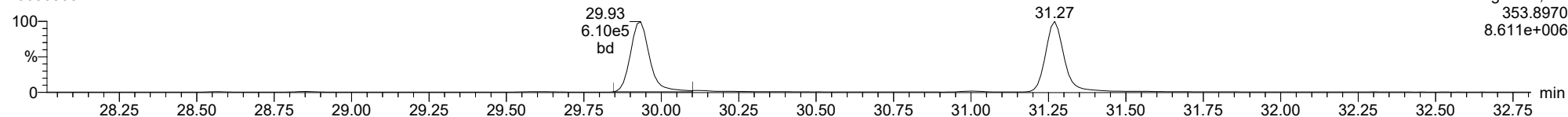
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23030308



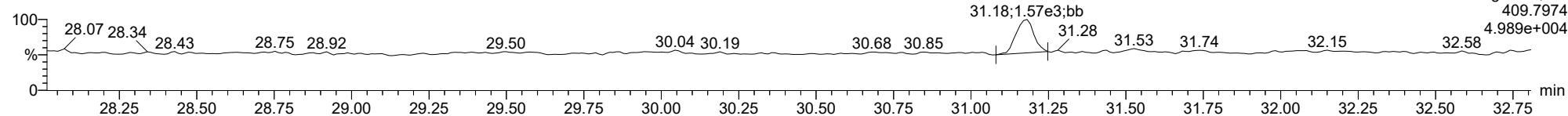
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23030308



**FUNCTION2 HPCDPE**

23030308

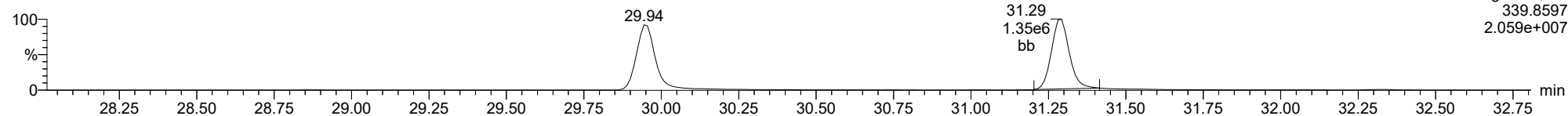




ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

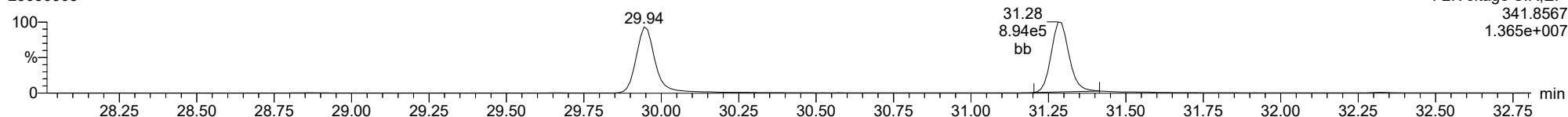
**23478-PeCDF**

23030308



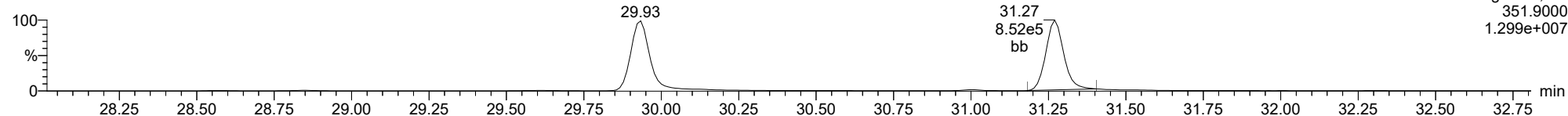
**23478-PeCDF**

23030308



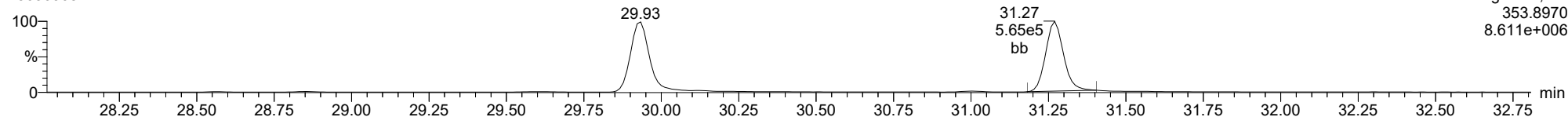
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23030308



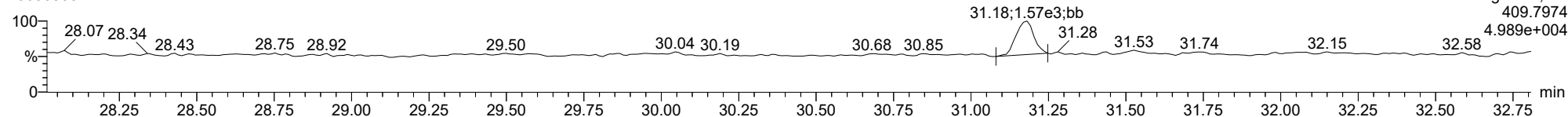
**13C-23478-PeCDF**

23030308



**FUNCTION2 HPCDPE**

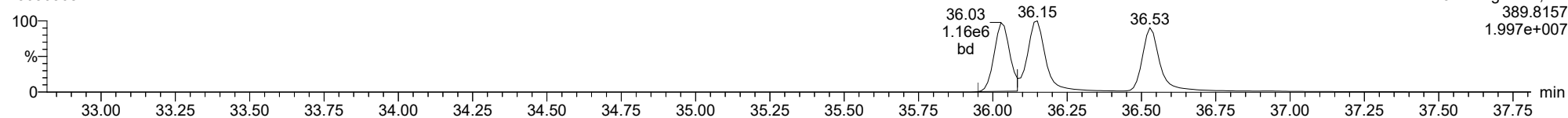
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

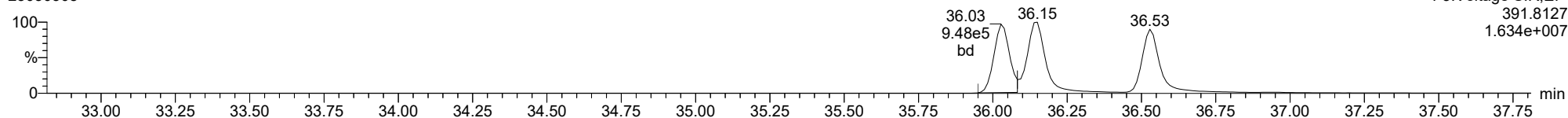
**123478-HxCDD**

23030308



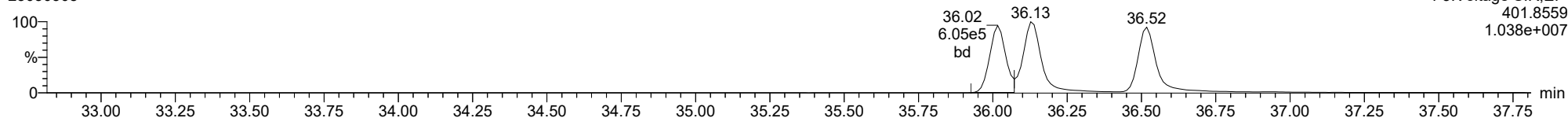
**123478-HxCDD**

23030308



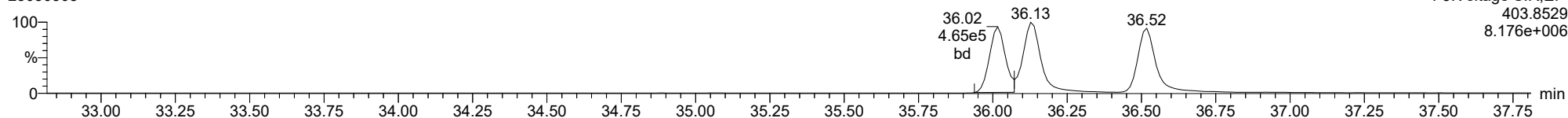
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23030308



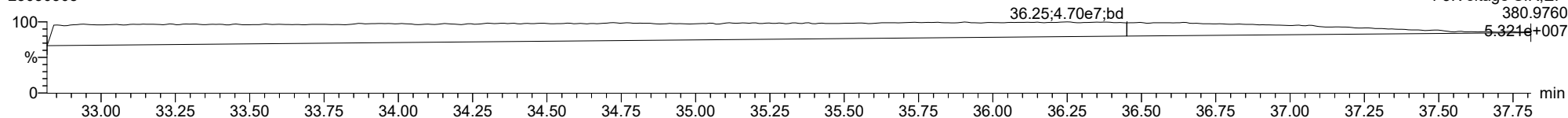
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23030308



**FUNCTION3 PFK**

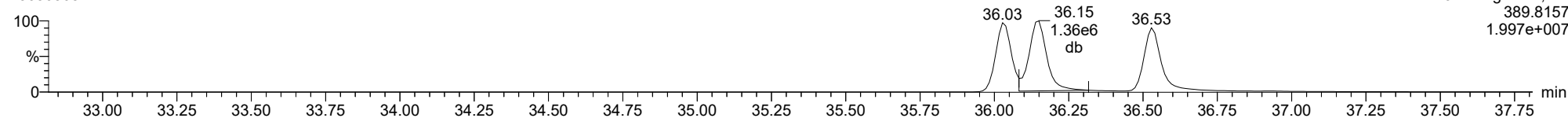
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

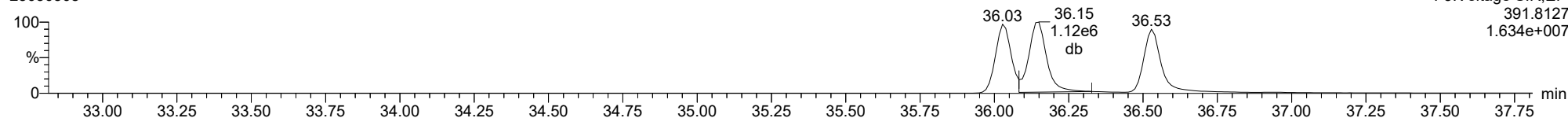
**123678-HxCDD**

23030308



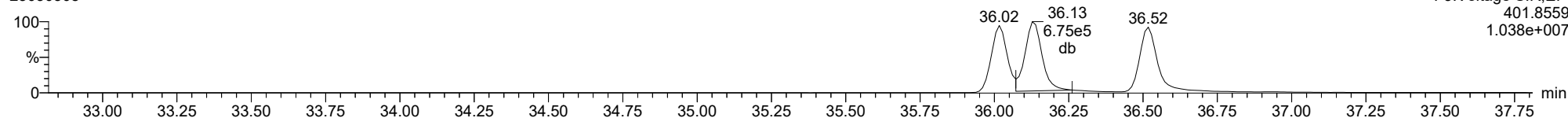
**123678-HxCDD**

23030308



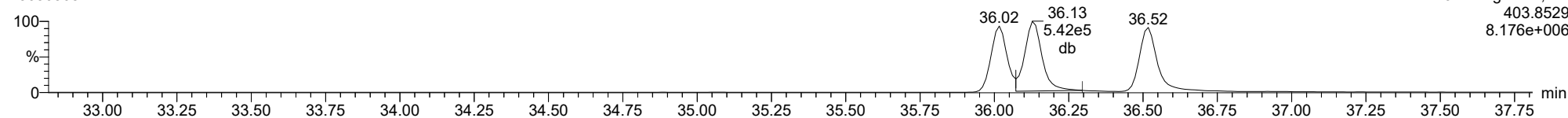
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23030308



**13C-123678-HxCDD**

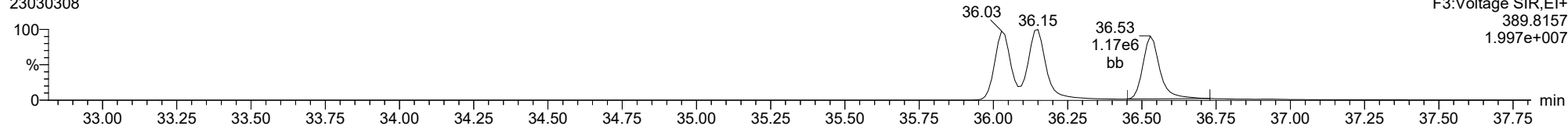
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

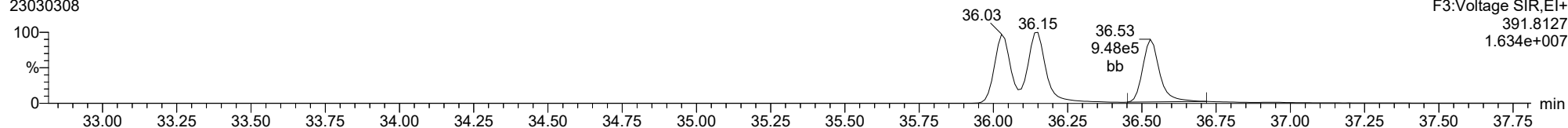
**123789-HxCDD**

23030308



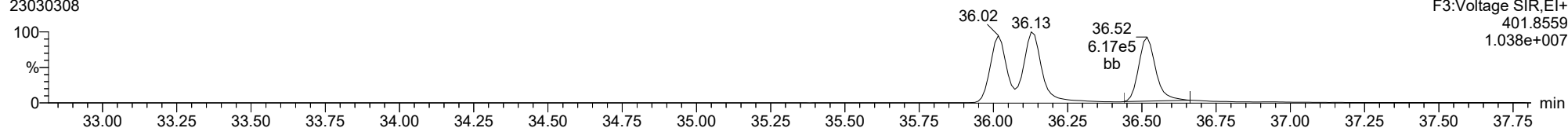
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23030308



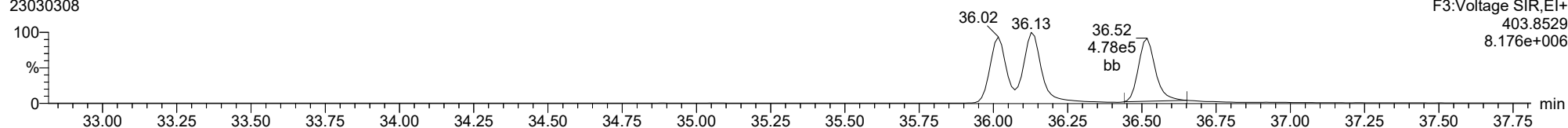
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**13C-123789-HxCDD**

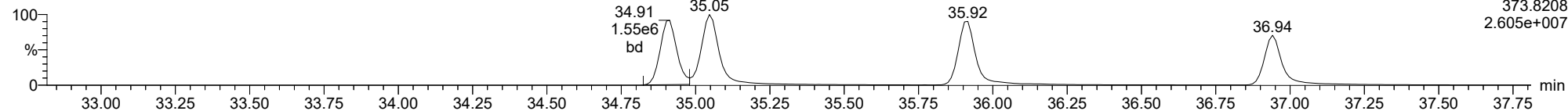
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

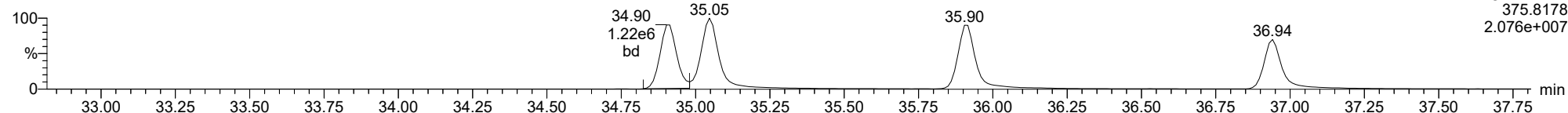
123478-HxCDF

23030308



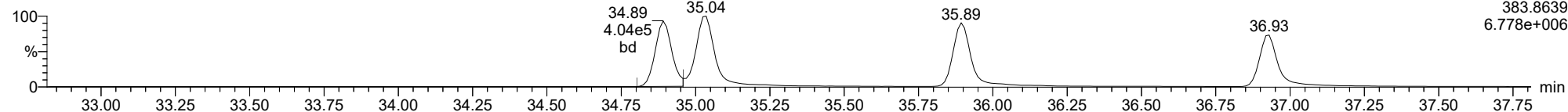
123478-HxCDF

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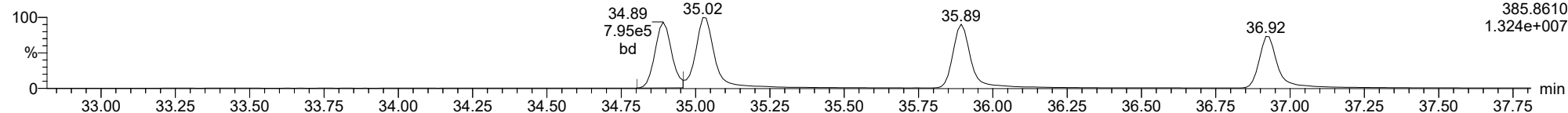
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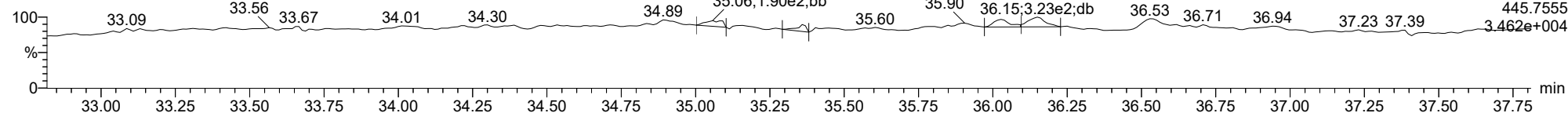
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23030308



FUNCTION3 OCDPE

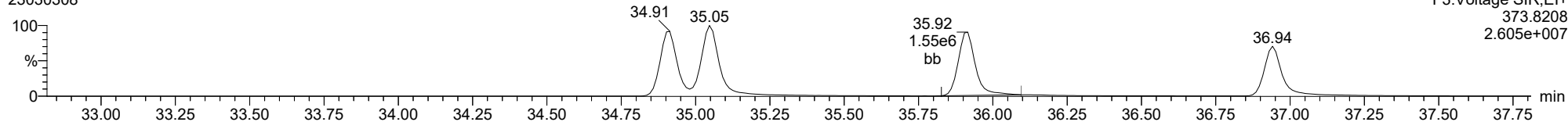
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

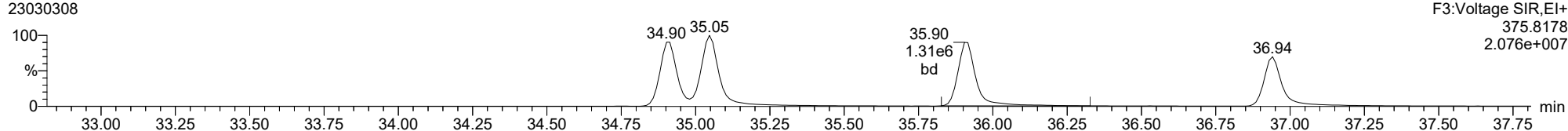
**234678-HxCDF**

23030308



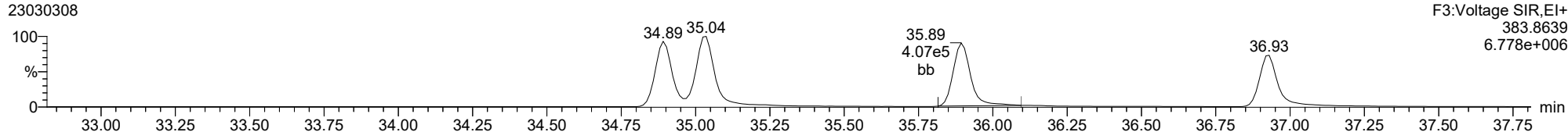
**234678-HxCDF**

23030308



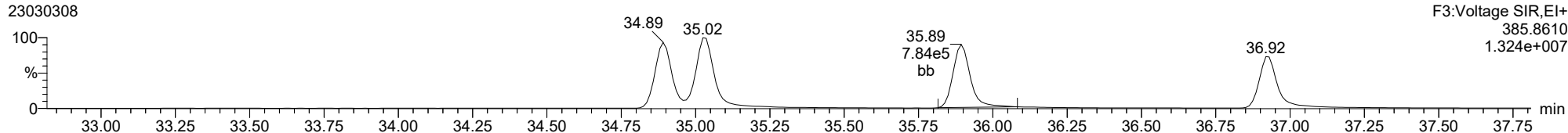
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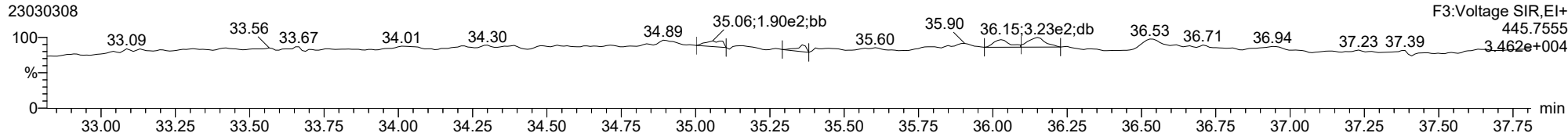
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23030308



**FUNCTION3 OCDPE**

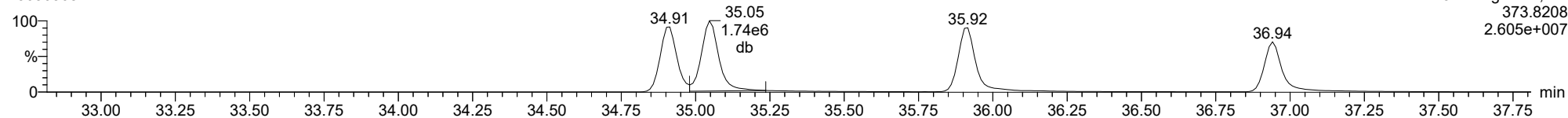
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

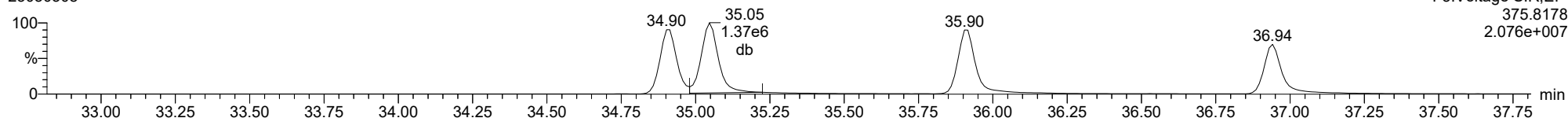
**123678-HxCDF**

23030308



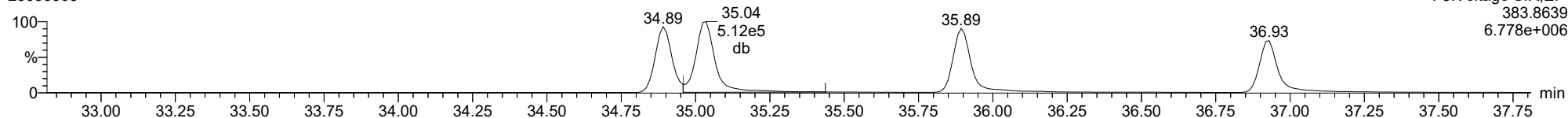
**123678-HxCDF**

23030308



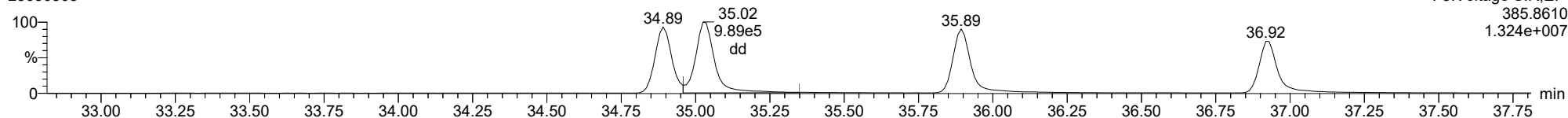
**13C-123678-HxCDF**

23030308



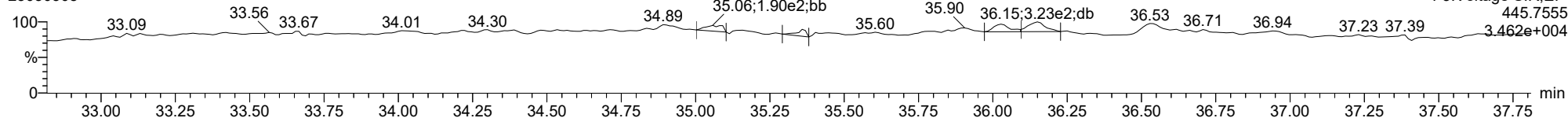
**13C-123678-HxCDF**

23030308



**FUNCTION3 OCDPE**

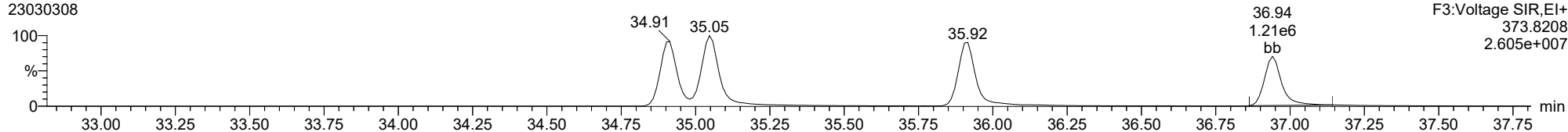
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

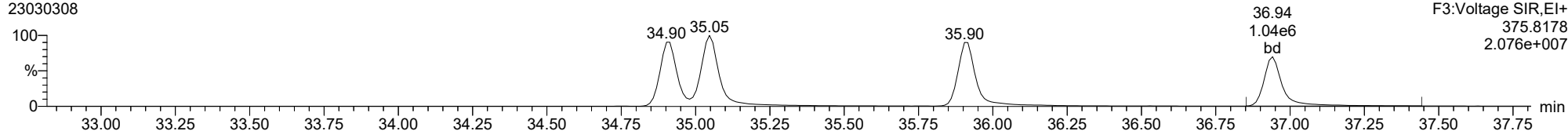
**123789-HxCDF**

23030308



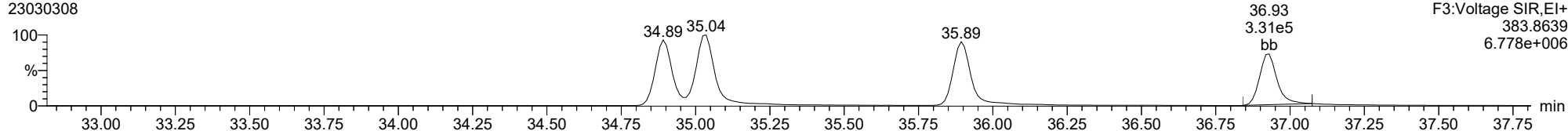
**123789-HxCDF**

23030308



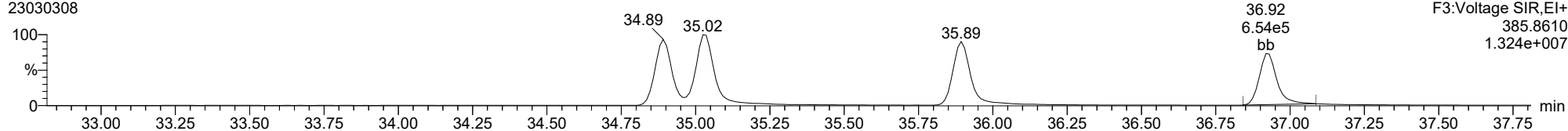
**13C-123789-HxCDF**

23030308



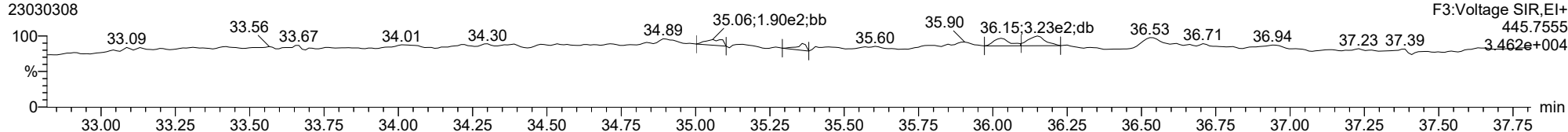
**13C-123789-HxCDF**

23030308



**FUNCTION3 OCDPE**

23030308

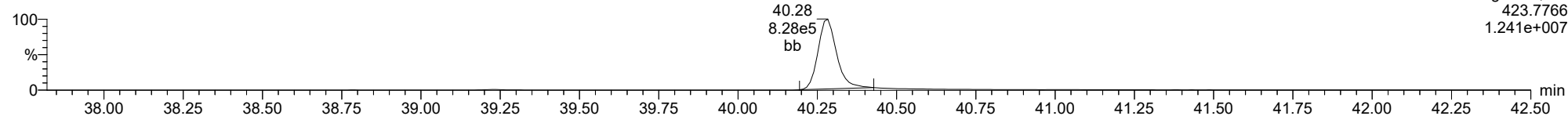




ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

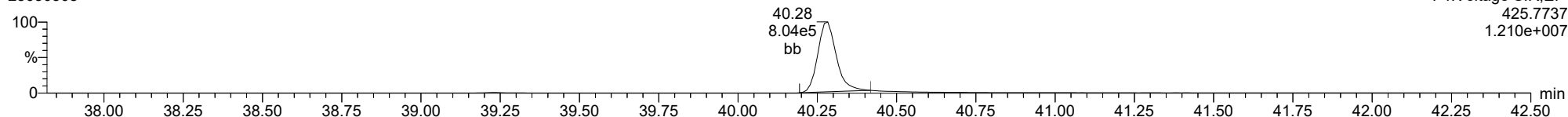
**1234678-HpCDD**

23030308



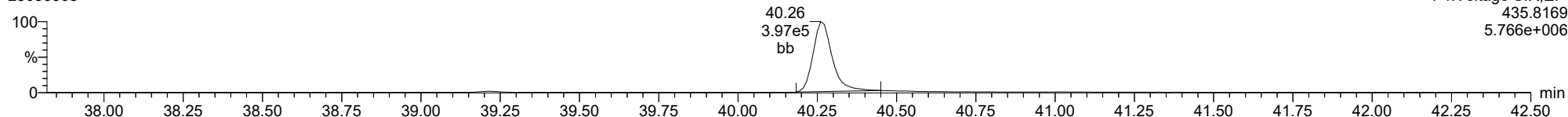
**1234678-HpCDD**

23030308



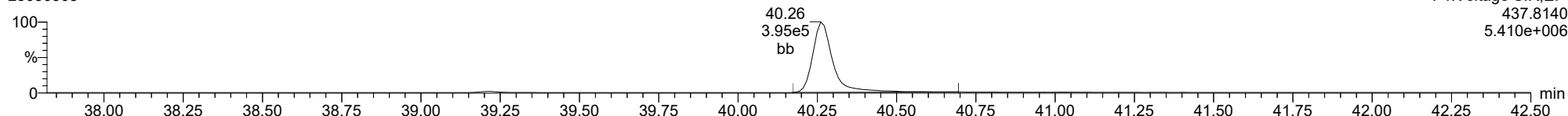
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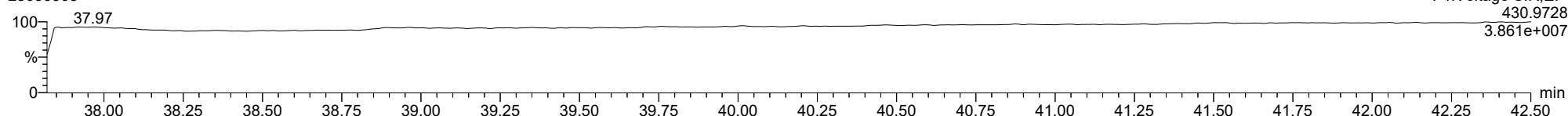
**13C-1234678-HpCDD**

23030308



**FUNCTION4 PFK**

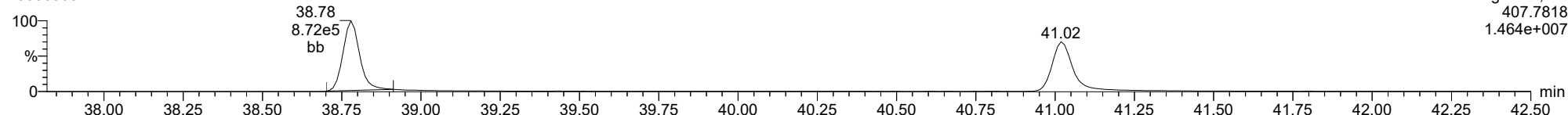
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

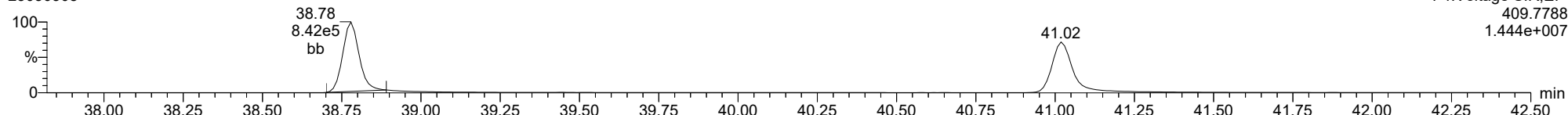
**1234678-HpCDF**

23030308



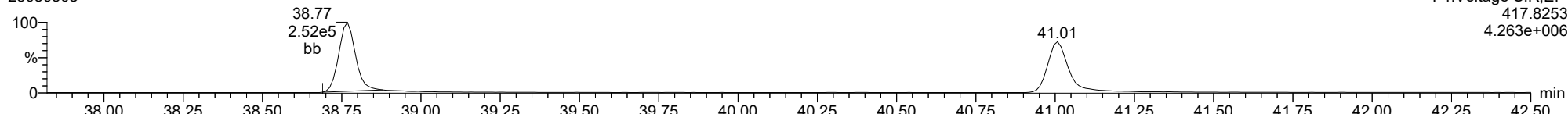
**1234678-HpCDF**

23030308



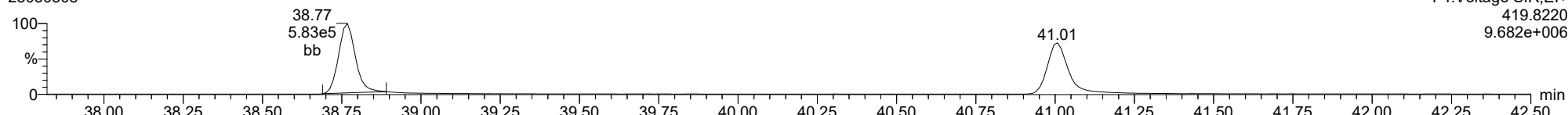
**13C-1234678-HpCDF**

23030308



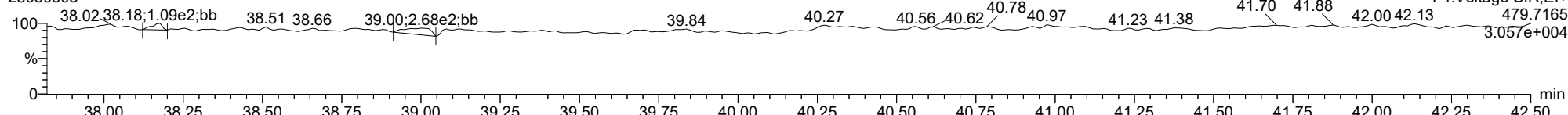
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**FUNCTION4 NCDPE**

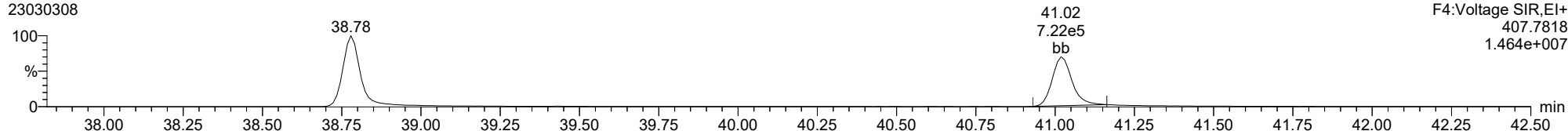
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

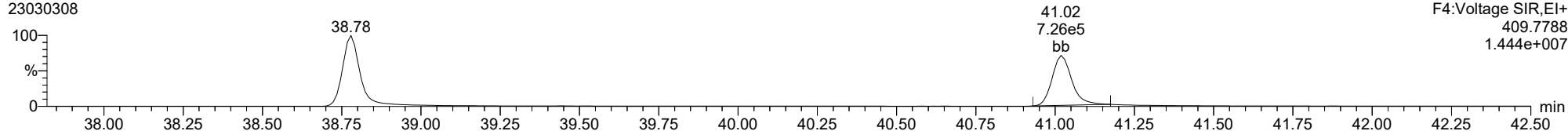
**1234789-HpCDF**

23030308



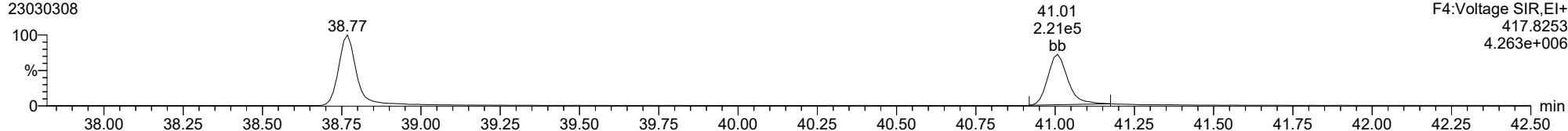
**1234789-HpCDF**

23030308



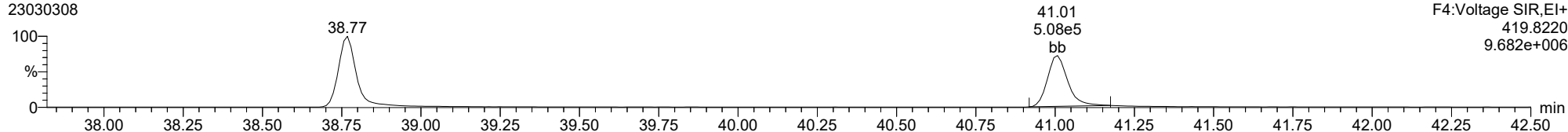
**13C-1234789-HpCDF**

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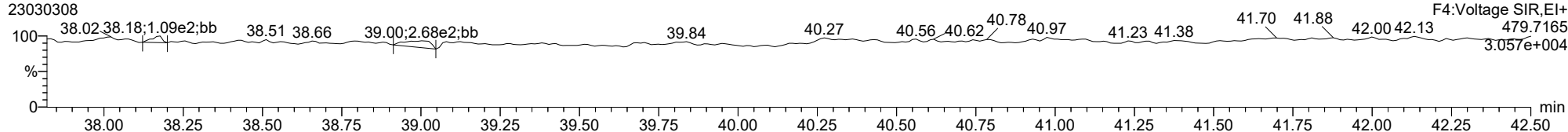
**13C-1234789-HpCDF**

23030308



**FUNCTION4 NCDPE**

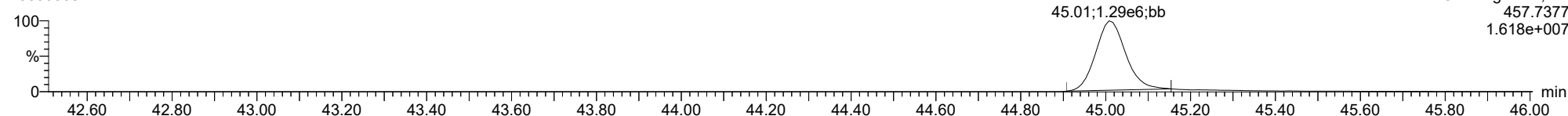
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

**OCDD**

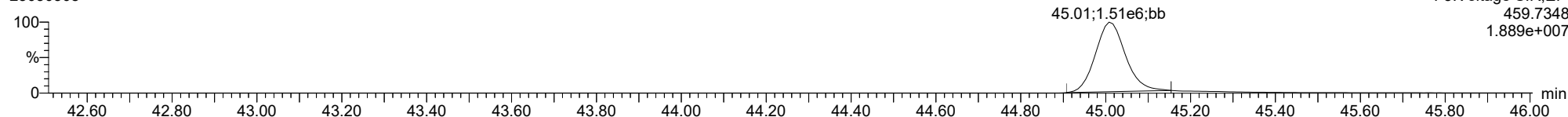
23030308



F5:Voltage SIR,EI+  
457.7377  
1.618e+007

**OCDD**

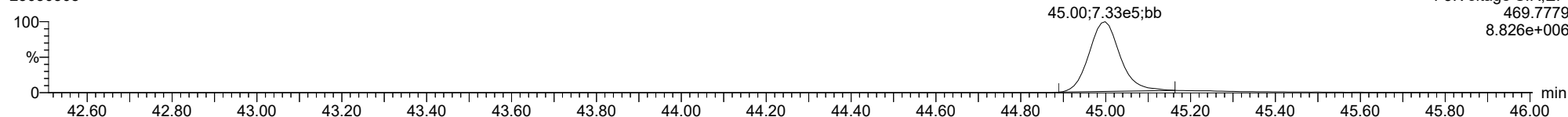
23030308



F5:Voltage SIR,EI+  
459.7348  
1.889e+007

**13C-OCDD**

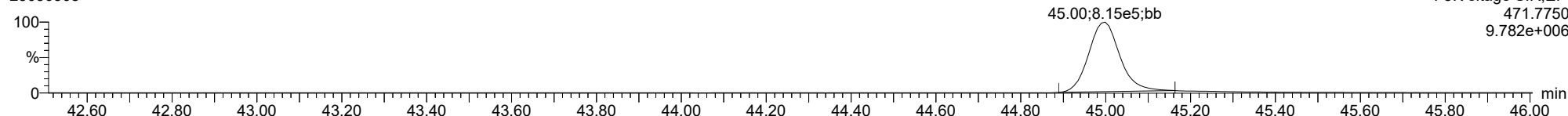
23030308



F5:Voltage SIR,EI+  
469.7779  
8.826e+006

**13C-OCDD**

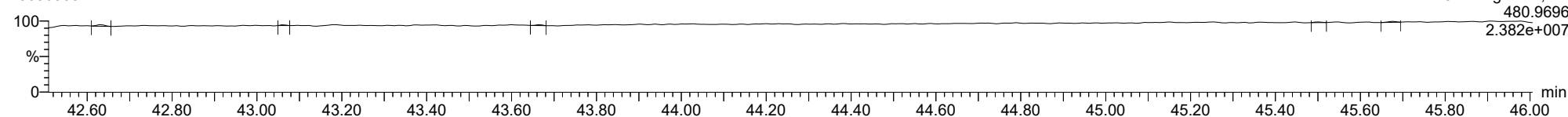
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F5:Voltage SIR,EI+  
471.7750  
9.782e+006

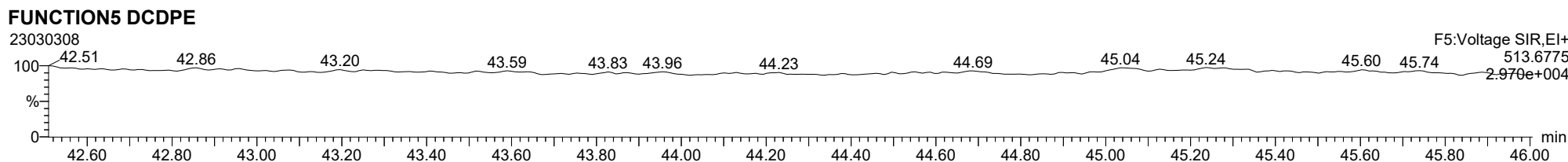
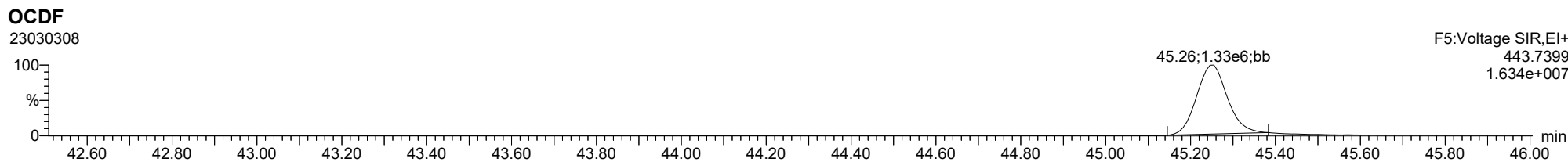
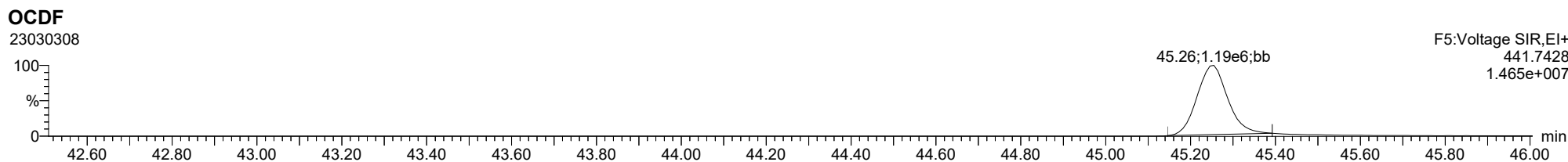
**FUNCTION5 PFK**

23030308



F5:Voltage SIR,EI+  
480.9696  
2.382e+007

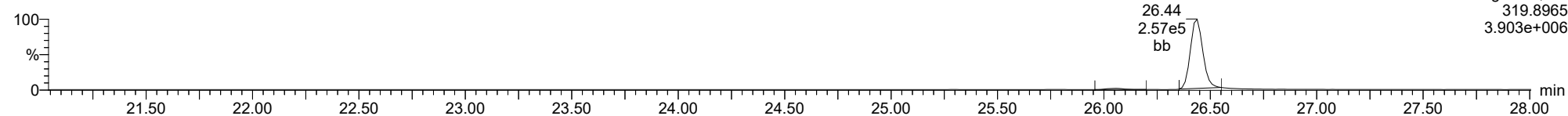
ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk



ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

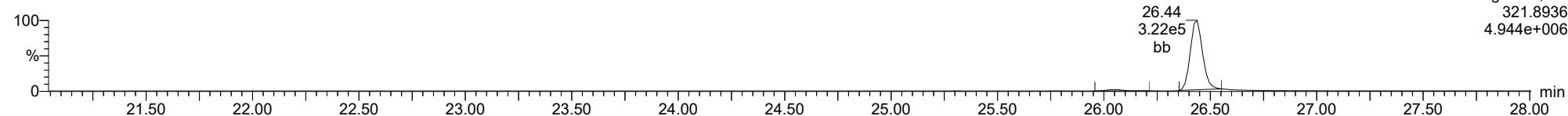
**Total-tetradoxins**

23030308



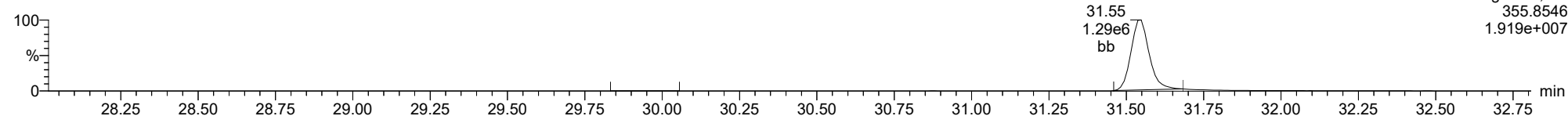
**Total-tetradoxins**

23030308



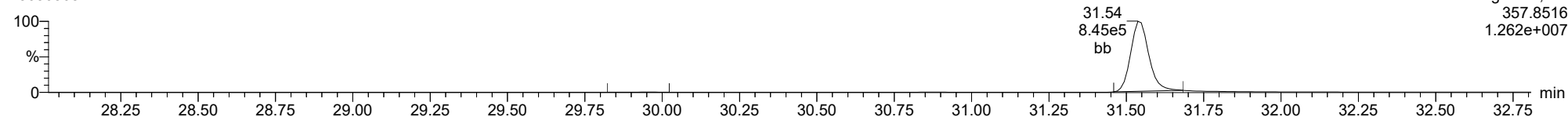
**Total-pentadoxins**

23030308



**Total-pentadoxins**

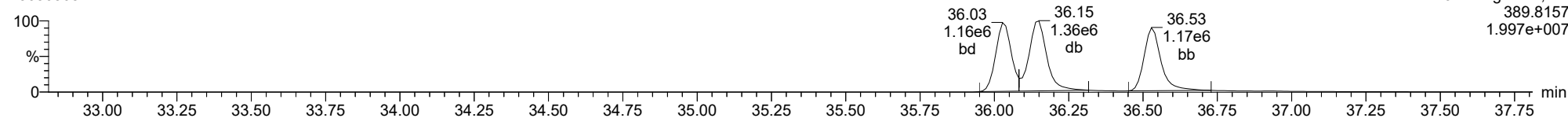
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

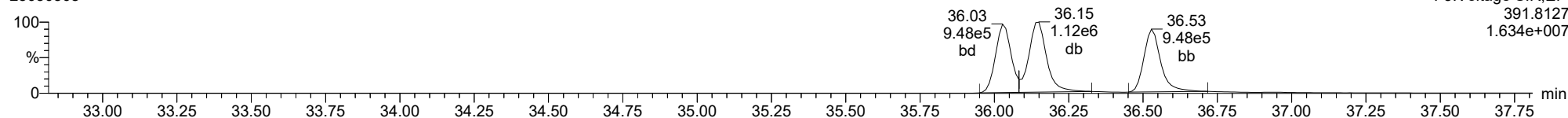
**Total-hexadioxins**

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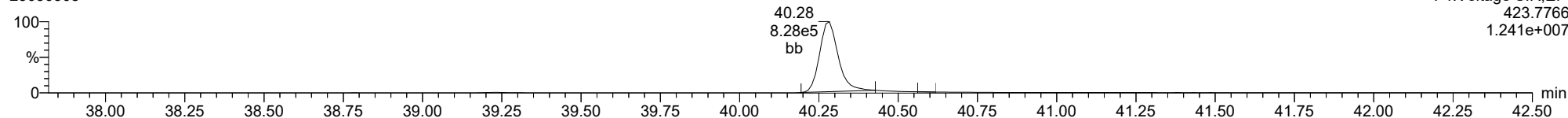
**Total-hexadioxins**

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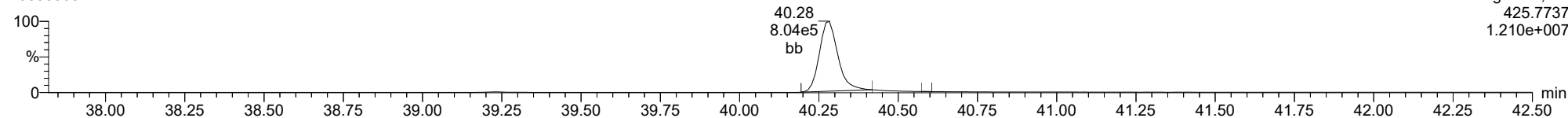
**Total-heptadioxins**

23030308



**Total-heptadioxins**

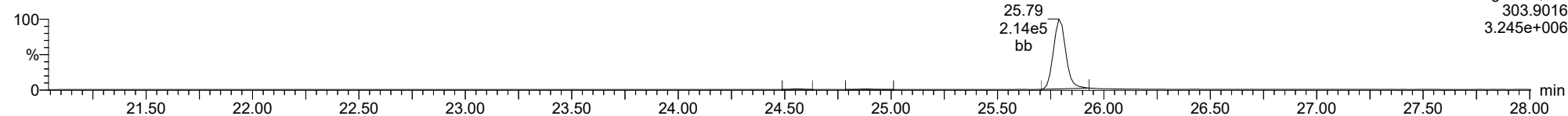
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

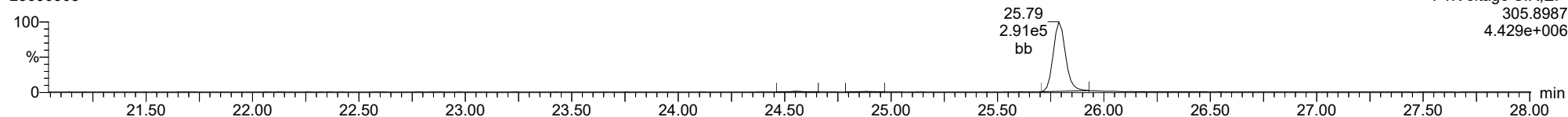
**Total-tetrafurans**

23030308



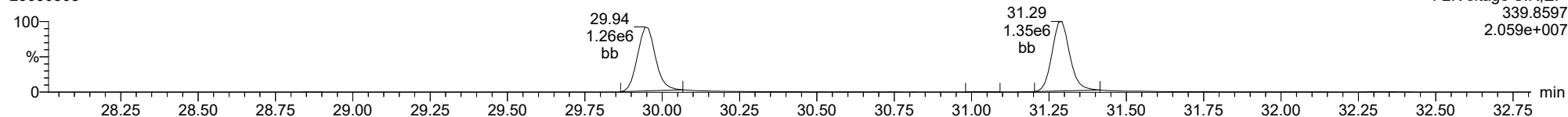
**Total-tetrafurans**

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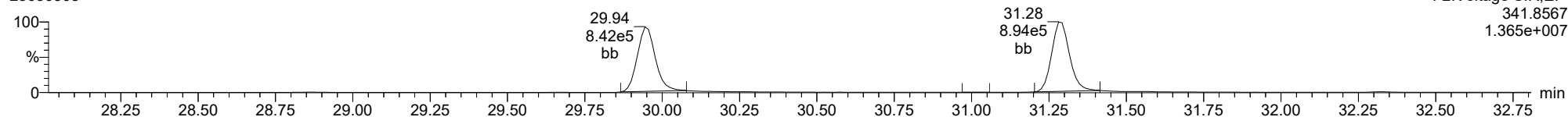
**Total-pentafurans**

23030308



**Total-pentafurans**

23030308

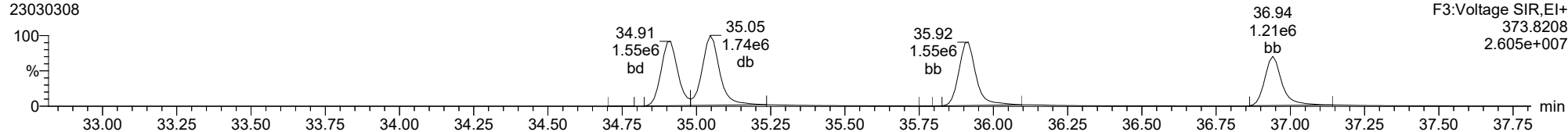




ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

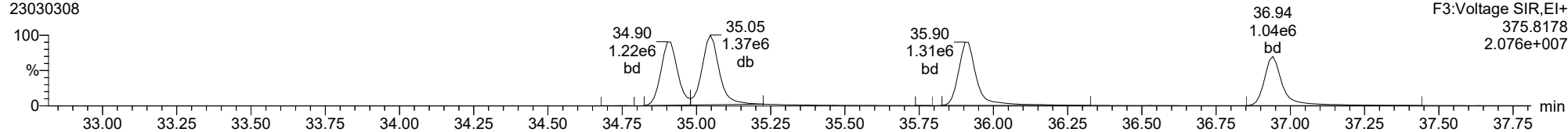
**Total-hexafurans**

23030308



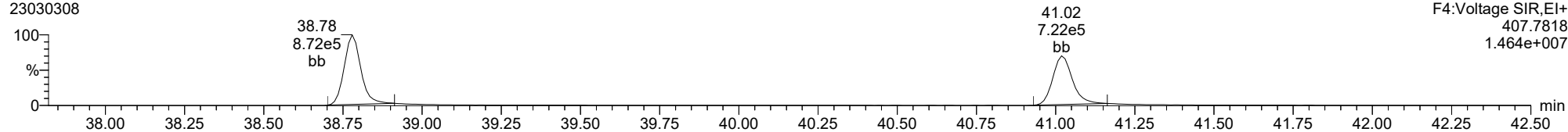
**Total-hexafurans**

23030308



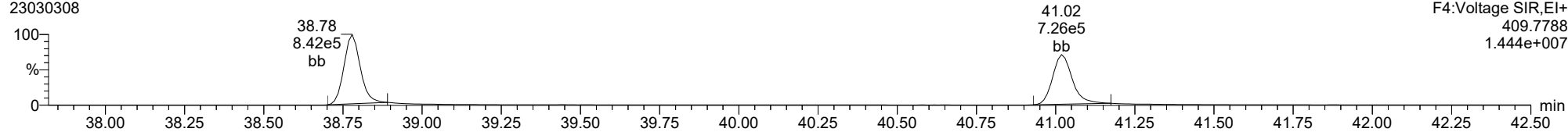
**Total-heptafurans**

23030308



**Total-heptafurans**

23030308



Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:35:04 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

**Calibration:** T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

**ID:** CS5CW, **Name:** 23030309, **Date:** 03-Mar-2023, **Time:** 15:47:43, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	1.334e6	1.787e6	0.702	0.746	0.770	1816	2705	2.07e7	2.78e7	11389.3	10270.6	NO	bb	bb	200.466
12378-PeCDF	29.934	1.000	7.598e6	4.979e6	0.679	1.526	1.550	4787	5694	1.20e8	7.84e7	24983.0	13764.4	NO	bb	bb	1049.785
23478-PeCDF	31.271	1.000	8.034e6	5.310e6	0.786	1.513	1.550	4787	5694	1.23e8	8.18e7	25734.3	14361.4	NO	bb	bb	1006.165
123478-HxCDF	34.903	1.001	7.954e6	6.371e6	1.166	1.248	1.240	1657	3079	1.28e8	1.02e8	76946.6	33145.2	NO	bd	bd	988.542
234678-HxCDF	35.894	1.000	8.440e6	6.648e6	1.140	1.270	1.240	1657	3079	1.32e8	1.04e8	79492.3	33730.7	NO	bd	bd	997.904
123678-HxCDF	35.036	1.000	8.729e6	6.976e6	1.091	1.251	1.240	1657	3079	1.37e8	1.09e8	82564.4	35544.8	NO	db	db	1005.907
123789-HxCDF	36.930	1.000	7.107e6	5.643e6	1.137	1.259	1.240	1657	3079	1.15e8	9.05e7	69330.3	29396.1	NO	bb	bb	962.631
1234678-HpCDF	38.769	1.000	5.729e6	5.700e6	1.003	1.005	1.050	5984	6276	9.87e7	9.77e7	16498.3	15567.0	NO	bb	bb	1001.511
1234789-HpCDF	41.008	1.000	4.891e6	4.848e6	0.953	1.009	1.050	5984	6276	7.31e7	7.29e7	12213.8	11617.0	NO	bb	bb	1050.453
OCDF	45.246	1.006	8.007e6	9.001e6	0.778	0.890	0.890	617	1698	1.01e8	1.14e8	163878.0	67066.1	NO	bb	bb	2152.541
2378-TCDD	26.424	1.001	1.623e6	2.053e6	1.149	0.791	0.770	1583	1421	2.49e7	3.15e7	15719.4	22173.2	NO	bb	bb	201.416
12378-PeCDD	31.527	1.000	7.500e6	4.933e6	1.022	1.520	1.550	3207	3258	1.15e8	7.59e7	35906.6	23308.0	NO	bb	bb	987.154
123478-HxCDD	36.017	1.000	6.446e6	5.113e6	0.996	1.261	1.240	1269	1319	1.05e8	8.63e7	82869.7	65420.3	NO	bd	bd	1008.795
123678-HxCDD	36.139	1.001	6.944e6	5.798e6	1.001	1.198	1.240	1269	1319	1.11e8	8.98e7	87214.8	68064.1	NO	db	db	1011.135
123789-HxCDD	36.518	1.011	6.387e6	5.242e6	0.907	1.218	1.240	1269	1319	1.04e8	8.52e7	81996.1	64539.0	NO	bb	bb	1063.935
1234678-HpCDD	40.273	1.000	5.468e6	5.342e6	1.039	1.023	1.050	4639	3285	8.81e7	8.56e7	19002.3	26055.7	NO	bb	bb	1010.673
OCDD	45.008	1.000	8.523e6	9.997e6	0.920	0.853	0.890	1224	2738	1.09e8	1.28e8	89206.2	46574.8	NO	bb	bb	1981.710
13C-2378-TCDF	25.760	1.007	9.657e5	1.254e6	1.620	0.770	0.770	2759	1757	1.47e7	1.88e7	5325.4	10693.5	NO	bb	bb	104.465
13C-12378-PeCDF	29.923	1.169	1.058e6	7.059e5	1.240	1.499	1.550	2137	2181	1.59e7	1.06e7	7426.1	4845.6	NO	bb	bb	108.437
13C-23478-PeCDF	31.259	1.222	1.010e6	6.768e5	1.118	1.492	1.550	2137	2181	1.54e7	1.03e7	7192.1	4709.7	NO	bb	bb	115.091
13C-123478-HxCDF	34.880	0.955	4.197e5	8.230e5	1.168	0.510	0.510	2074	3087	6.86e6	1.33e7	3308.7	4323.9	NO	bd	bd	88.344
13C-123678-HxCDF	35.025	0.959	4.843e5	9.471e5	1.386	0.511	0.510	2074	3087	7.37e6	1.42e7	3551.0	4614.4	NO	db	db	85.742
13C-234678-HxCDF	35.883	0.983	4.483e5	8.783e5	1.129	0.510	0.510	2074	3087	6.95e6	1.37e7	3352.7	4438.0	NO	bd	bd	97.566
13C-123789-HxCDF	36.919	1.011	3.958e5	7.690e5	0.932	0.515	0.510	2074	3087	6.35e6	1.23e7	3061.9	3979.7	NO	bb	bb	103.822
13C-1234678-HpCDF	38.757	1.062	3.445e5	7.933e5	0.895	0.434	0.440	2404	3556	5.77e6	1.33e7	2401.1	3732.0	NO	bb	bb	105.552
13C-1234789-HpCDF	40.997	1.123	2.963e5	6.765e5	0.770	0.438	0.440	2404	3556	4.35e6	9.96e6	1811.4	2800.3	NO	bb	bb	104.955
13C-1234-TCDD	25.591	0.000	5.845e5	7.267e5	1.000	0.804	0.770	2994	1335	8.98e6	1.11e7	2999.9	8316.3	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	7.030e5	8.860e5	1.152	0.794	0.770	2994	1335	1.05e7	1.32e7	3492.1	9847.6	NO	bb	bb	105.160
13C-12378-PeCDD	31.515	1.232	7.626e5	4.699e5	0.829	1.623	1.550	1207	1205	1.17e7	7.16e6	9657.3	5939.7	NO	bb	bb	113.413
13C-123478-HxCDD	36.006	0.986	6.492e5	5.017e5	0.995	1.294	1.240	1422	1281	1.08e7	8.26e6	7562.7	6444.6	NO	bd	bd	96.063
13C-123678-HxCDD	36.117	0.989	7.072e5	5.517e5	1.157	1.282	1.240	1422	1281	1.11e7	8.74e6	7828.3	6824.3	NO	db	db	90.391
13C-1234678-HpCDD	40.262	1.103	5.341e5	4.953e5	0.840	1.078	1.050	2026	1583	8.10e6	7.45e6	3998.5	4702.7	NO	bb	bb	101.765
13C-OCDD	44.990	1.232	9.650e5	1.067e6	0.767	0.905	0.890	1467	1005	1.21e7	1.35e7	8264.7	13401.8	NO	bb	bb	219.862
13C-123789-HxCDD	36.507	0.000	6.722e5	5.319e5	1.000	1.264	1.240	1422	1281	1.10e7	8.62e6	7719.2	6727.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	3.368e6		1.288			2667		5.07e7		19022.1			bb		199.444

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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1816	2705								
1289-TCDF					0.678		0.770	1816	2705								
13468-PECDF					1.246		1.550	665	1133								
12389-PECDF					0.496		1.550	4787	5694								
123468-HXCDF					1.169		1.240	1657	3079								
1368-TCDD					1.015		0.770	1583	1421								
1289-TCDD					0.909		0.770	1583	1421								
12479-PECDD					2.301		1.550	3207	3258								
12389-PECDD					1.184		1.550	3207	3258								
124679-HXCDD					1.115		1.240	1269	1319								
1234679-HPCDD					1.137		1.050	4639	3285								
Total-tetrafurans			1.355e6		0.727			1816		2.10e7						203.619	
Total-penta1			0.000e0					665		0.00e0							
Total-pentafurans			1.567e7		0.654			4787		2.43e8						2061.969	
Total-hexafurans			3.237e7		1.141			1657		5.13e8						3971.633	
Total-heptafurans			1.063e7		0.978			5984		1.72e8						2053.620	
Total-Furans			6.803e7		0.922			1816		1.05e9						10443.382	
Total-tetradoxins			1.660e6		1.024			1583		2.53e7						206.551	
Total-pentadoxins			7.518e6		1.502			3207		1.15e8						988.757	
Total-hexadoxins			1.981e7		1.005			1269		3.20e8						3089.249	
Total-heptadoxins			5.468e6		1.088			4639		8.81e7						1010.701	
Total-Dioxins			4.298e7		1.130			1583		6.58e8						7276.969	
Total-TEQ			1.110e8					1583		1.71e9						17720.350	
FUNCTION1 PFK			8.364e4					590794		3.29e6							
FUNCTION2 PFK			1.452e7					287139		1.24e7						0.000	
FUNCTION3 PFK			2.904e5					447834		7.86e6						0.000	
FUNCTION4 PFK			1.983e5					258971		5.49e6							
FUNCTION5 PFK			1.360e5					213310		3.56e6							
FUNCTION1 HXCD...			9.848e2					660		1.37e4						0.000	
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			9.974e3					875		1.52e5						0.000	
FUNCTION3 OCDPE			5.118e3					487		5.72e4						0.000	
FUNCTION4 NCDPE			1.842e3					616		1.81e4						0.000	
FUNCTION5 DCDPE			3.423e3					534		2.47e4						0.000	

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

Calibration: T:\Autospec\Curves\230303\CIH.cdb 06 Mar 2023 10:57:27

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
2	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
3	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
4	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
5	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
6	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
2	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
3	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
4	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
5	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
6	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
7	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
8	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
2	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
3	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731
5	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
6	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
7	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
8	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
9	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
10	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415
11	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
12	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
13	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
14	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
15	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
16	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
17	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
18	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904
19	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
20	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
21	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...
22	OCDF	45.25	8.007e6	9.001e6	0.778	0.89	0.89	16387...	YES	NO	bb	bb	2152.5...

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
2	Total-tetradioxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
3	Total-tetradioxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
4	Total-tetradioxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
2	Total-pentadioxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
3	Total-pentadioxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
4	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
5	Total-pentadioxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
2	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
3	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
4	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
2	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:35:04 Pacific Standard Time

**ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk**

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
2	Total-tetradoxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
3	Total-tetradoxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
4	Total-tetradoxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199
5	Total-pentadoxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
6	Total-pentadoxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
7	Total-pentadoxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
8	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
9	Total-pentadoxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776
10	Total-hexadoxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
11	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
12	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
13	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...
14	Total-heptadoxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
15	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...
16	OCDD	45.01	8.523e6	9.997e6	0.920	0.85	0.89	89206.2	YES	NO	bb	bb	1981.7...

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 11:35:04 Pacific Standard Time

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731
5	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
6	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
7	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
8	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
9	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
10	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415
11	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
12	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
13	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
14	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
15	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
16	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
17	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
18	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904
19	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
20	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
21	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...
22	OCDF	45.25	8.007e6	9.001e6	0.778	0.89	0.89	16387...	YES	NO	bb	bb	2152.5...
23	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
24	Total-tetradiioxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
25	Total-tetradiioxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
26	Total-tetradiioxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199
27	Total-pentadiioxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
28	Total-pentadiioxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
29	Total-pentadiioxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
30	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
31	Total-pentadiioxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776
32	Total-hexadiioxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
33	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
34	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
35	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...
36	Total-heptadiioxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
37	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\CIH.qld  
 Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time  
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**ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk**

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	OCDD	45.01	8.523e6	9.997e6	0.920	0.85	0.89	89206.2	YES	NO	bb	bb	1981.7...

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.64	6.068e3					0.7	NO		bb		
2	FUNCTION1 PFK	21.78	2.376e4					1.4	NO		bb		
3	FUNCTION1 PFK	26.65	6.322e3					0.8	NO		bb		
4	FUNCTION1 PFK	26.20	6.018e3					0.7	NO		bb		
5	FUNCTION1 PFK	24.62	4.147e4					1.9	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.96	1.329e6					11.3	YES		db		0.000
2	FUNCTION2 PFK	29.68	9.729e6					13.1	YES		dd		0.000
3	FUNCTION2 PFK	29.12	3.197e6					12.0	YES		dd		0.000
4	FUNCTION2 PFK	28.11	2.639e5					6.8	YES		bd		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.58	5.268e3					0.6	NO		bb		0.000
2	FUNCTION3 PFK	35.20	2.459e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	34.94	1.904e4					1.3	NO		bb		0.000
4	FUNCTION3 PFK	34.64	1.893e4					1.6	NO		bb		0.000
5	FUNCTION3 PFK	34.45	3.091e4					1.7	NO		bb		0.000
6	FUNCTION3 PFK	34.20	2.876e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	34.01	8.291e4					2.8	NO		bb		0.000
8	FUNCTION3 PFK	37.45	2.878e4					1.5	NO		bb		0.000
9	FUNCTION3 PFK	37.14	1.025e4					1.2	NO		bb		0.000
10	FUNCTION3 PFK	36.92	2.201e4					1.4	NO		bb		0.000
11	FUNCTION3 PFK	36.82	6.882e3					0.7	NO		bb		0.000
12	FUNCTION3 PFK	36.27	2.697e4					1.6	NO		bb		0.000
13	FUNCTION3 PFK	35.83	1.096e4					1.2	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk**

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.36	1.487e4					2.2	NO		db		
2	FUNCTION4 PFK	40.28	5.399e4					2.8	NO		bd		
3	FUNCTION4 PFK	39.84	7.632e3					1.3	NO		bb		
4	FUNCTION4 PFK	39.63	5.817e3					1.3	NO		bb		
5	FUNCTION4 PFK	39.58	2.233e4					2.4	NO		bb		
6	FUNCTION4 PFK	39.26	1.840e3					0.6	NO		bb		
7	FUNCTION4 PFK	39.15	1.821e4					2.0	NO		bb		
8	FUNCTION4 PFK	38.75	4.539e3					0.9	NO		bb		
9	FUNCTION4 PFK	38.40	3.735e3					0.9	NO		bb		
10	FUNCTION4 PFK	42.22	2.101e4					1.9	NO		bb		
11	FUNCTION4 PFK	41.91	9.871e3					1.2	NO		bb		
12	FUNCTION4 PFK	41.56	2.609e4					2.3	NO		bb		
13	FUNCTION4 PFK	40.96	8.343e3					1.4	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.55	1.986e4					1.8	NO		bb		
2	FUNCTION5 PFK	44.84	1.038e4					2.0	NO		bb		
3	FUNCTION5 PFK	44.32	5.641e3					1.1	NO		bb		
4	FUNCTION5 PFK	44.16	5.508e3					1.3	NO		bb		
5	FUNCTION5 PFK	43.92	3.533e3					1.2	NO		bb		
6	FUNCTION5 PFK	43.74	1.099e4					1.6	NO		bb		
7	FUNCTION5 PFK	43.65	5.197e4					3.3	YES		db		
8	FUNCTION5 PFK	43.53	1.828e4					2.1	NO		bd		
9	FUNCTION5 PFK	42.94	8.618e3					1.5	NO		bb		
10	FUNCTION5 PFK	42.73	1.271e3					0.6	NO		bb		

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.02	8.181e1					1.9	NO		bb		0.000
2	FUNCTION1 HXCD...	26.42	2.971e2					5.1	YES		bb		0.000
3	FUNCTION1 HXCD...	25.83	8.848e1					2.3	NO		db		0.000
4	FUNCTION1 HXCD...	25.77	1.170e2					2.5	NO		dd		0.000
5	FUNCTION1 HXCD...	25.59	1.285e2					2.6	NO		bd		0.000
6	FUNCTION1 HXCD...	24.84	1.183e2					1.2	NO		bb		0.000
7	FUNCTION1 HXCD...	24.11	7.501e1					1.5	NO		bb		0.000
8	FUNCTION1 HXCD...	22.26	7.865e1					3.6	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.55	8.739e2					12.4	YES		bb		0.000
2	FUNCTION2 HPCD...	31.16	9.100e3					161.2	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.02	1.011e3					23.2	YES		dd		0.000
2	FUNCTION3 OCDPE	35.92	4.171e2					12.8	YES		bd		0.000
3	FUNCTION3 OCDPE	35.05	6.001e2					12.0	YES		db		0.000
4	FUNCTION3 OCDPE	34.90	4.386e2					11.4	YES		bd		0.000
5	FUNCTION3 OCDPE	36.94	5.713e2					12.4	YES		bb		0.000
6	FUNCTION3 OCDPE	36.52	9.647e2					21.7	YES		bb		0.000
7	FUNCTION3 OCDPE	36.14	1.116e3					24.0	YES		db		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.03	4.935e2					7.5	YES		bb		0.000
2	FUNCTION4 NCDPE	40.28	7.486e2					12.2	YES		bb		0.000
3	FUNCTION4 NCDPE	38.78	6.004e2					9.6	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk**

**ETHERS6**

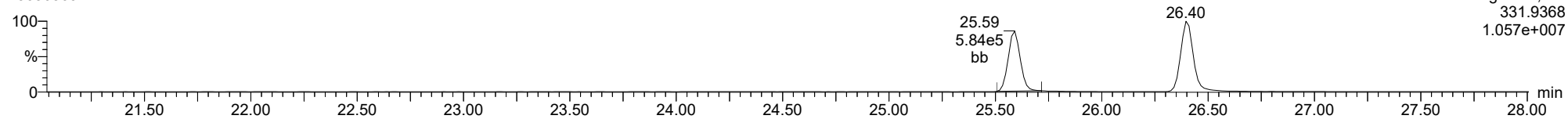
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.26	1.761e3					22.2	YES		db		0.000
2	FUNCTION5 DCDPE	45.02	1.661e3					24.0	YES		bd		0.000

**Method:** T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
**Calibration:** T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

**ID:** CS5CW, **Name:** 23030309, **Date:** 03-Mar-2023, **Time:** 15:47:43, **Conditions:** AUTOSPEC01, **User:** pk

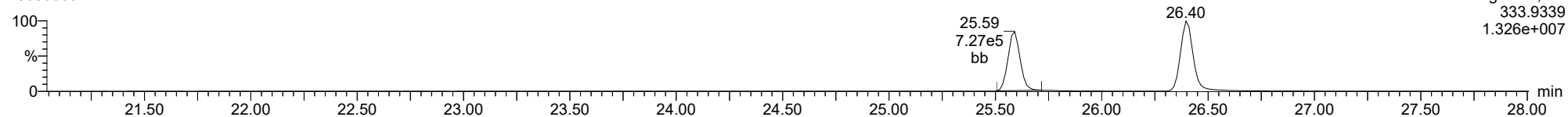
**13C-1234-TCDD**

23030309



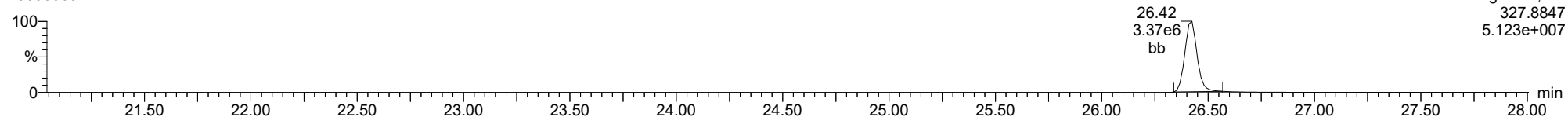
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23030309



**37CL-2378-TCDD**

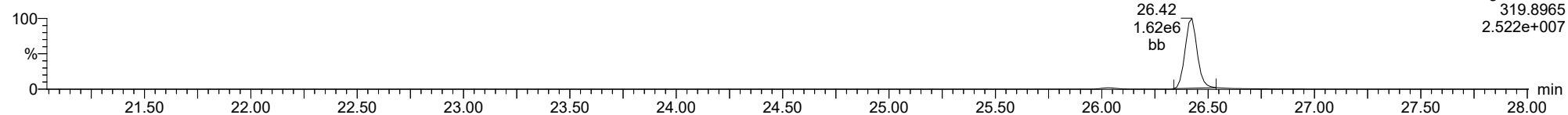
23030309



ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

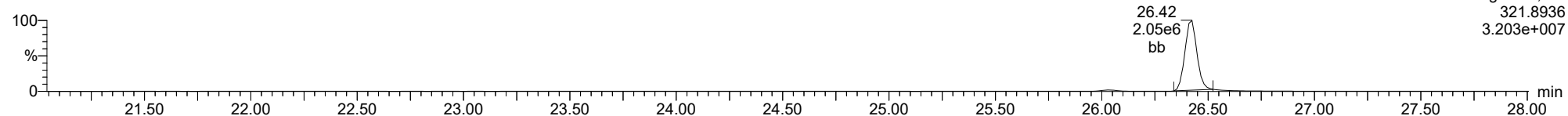
23030309



F1:Voltage SIR,EI+  
319.8965  
2.522e+007

**2378-TCDD**

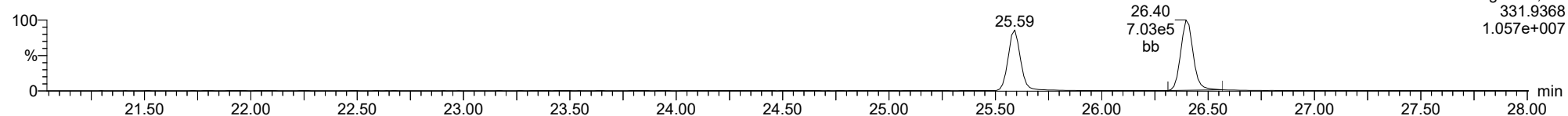
23030309



F1:Voltage SIR,EI+  
321.8936  
3.203e+007

**13C-2378-TCDD**

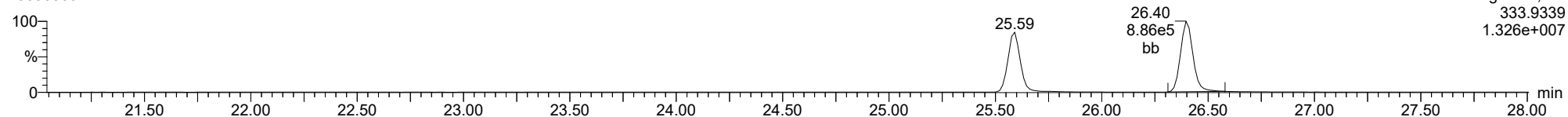
23030309



F1:Voltage SIR,EI+  
331.9368  
1.057e+007

**13C-2378-TCDD**

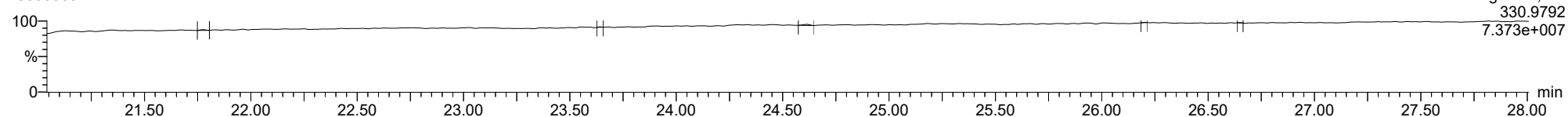
23030309



F1:Voltage SIR,EI+  
333.9339  
1.326e+007

**FUNCTION1 PFK**

23030309

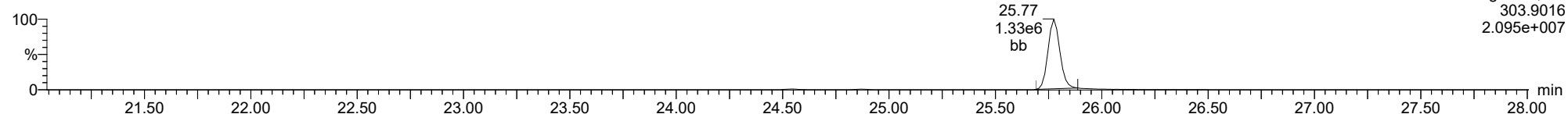


F1:Voltage SIR,EI+  
330.9792  
7.373e+007

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

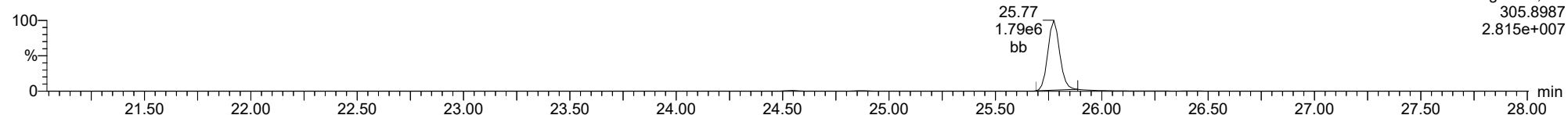
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23030309



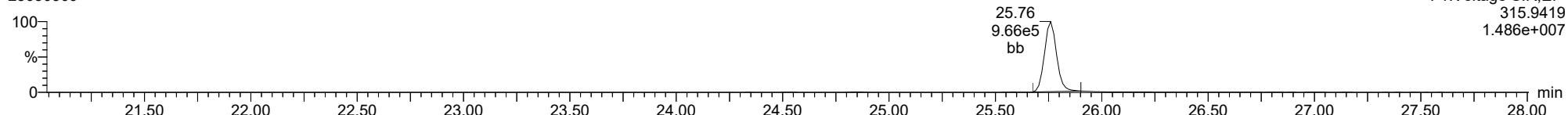
**2378-TCDF**

23030309



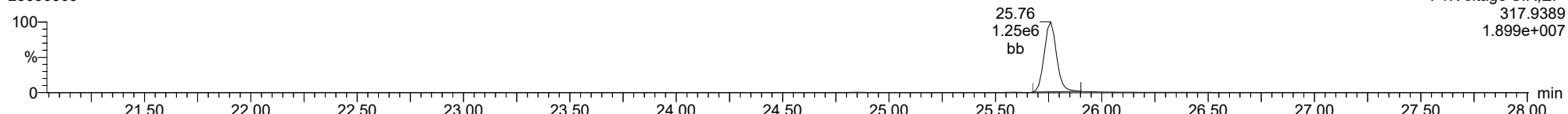
**13C-2378-TCDF**

23030309



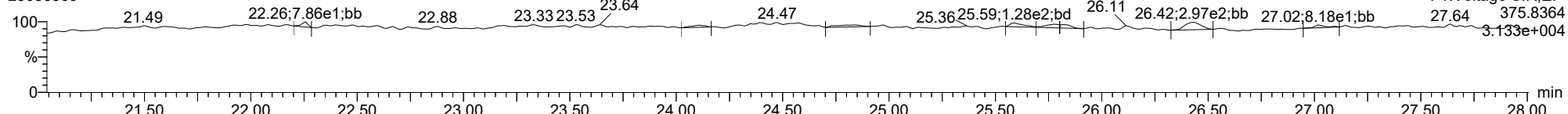
**13C-2378-TCDF**

23030309



**FUNCTION1 HXCDPE**

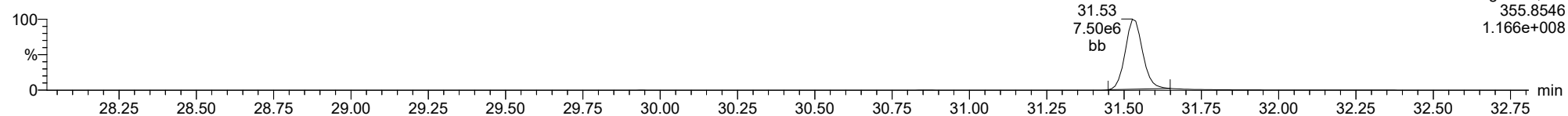
23030309



ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

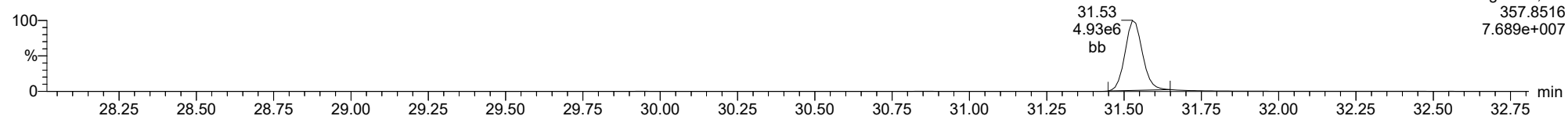
**12378-PeCDD**

23030309



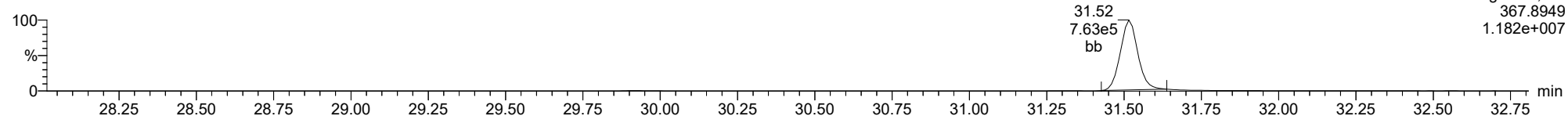
**12378-PeCDD**

23030309



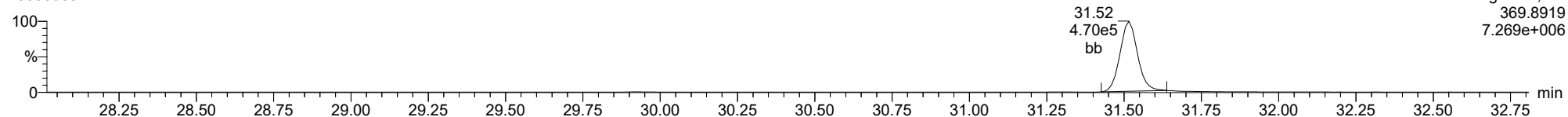
**13C-12378-PeCDD**

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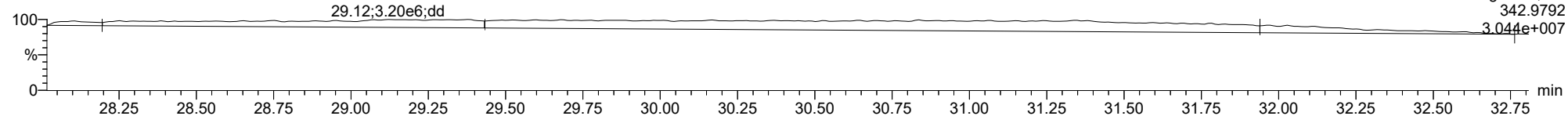
**13C-12378-PeCDD**

23030309



**FUNCTION2 PFK**

23030309

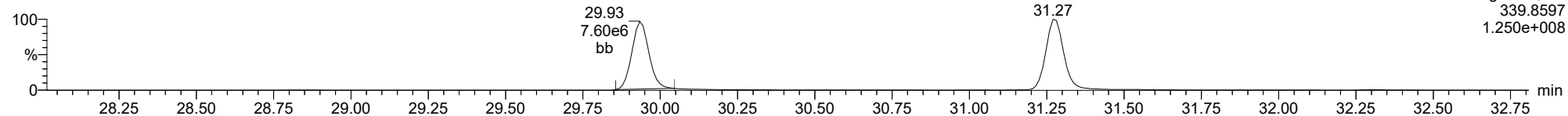




ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

**12378-PeCDF**

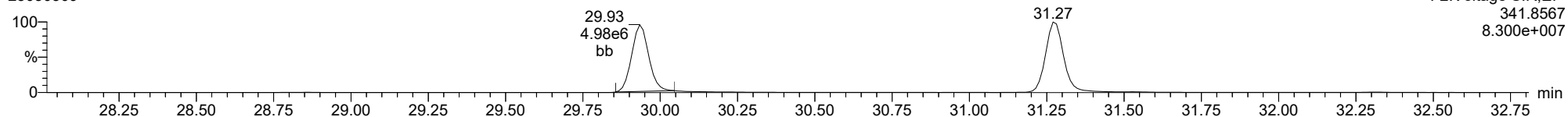
23030309



F2:Voltage SIR,EI+  
339.8597  
1.250e+008

**12378-PeCDF**

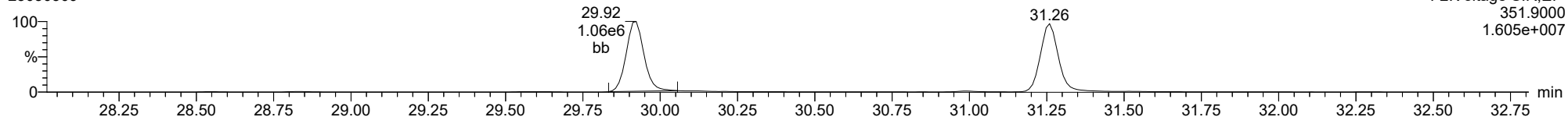
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F2:Voltage SIR,EI+  
341.8567  
8.300e+007

**13C-12378-PeCDF**

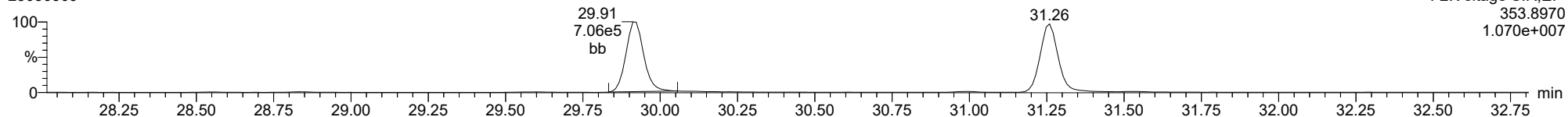
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F2:Voltage SIR,EI+  
351.9000  
1.605e+007

**13C-12378-PeCDF**

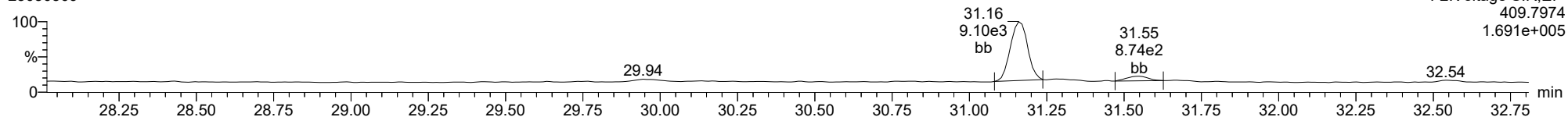
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F2:Voltage SIR,EI+  
353.8970  
1.070e+007

**FUNCTION2 HPCDPE**

23030309

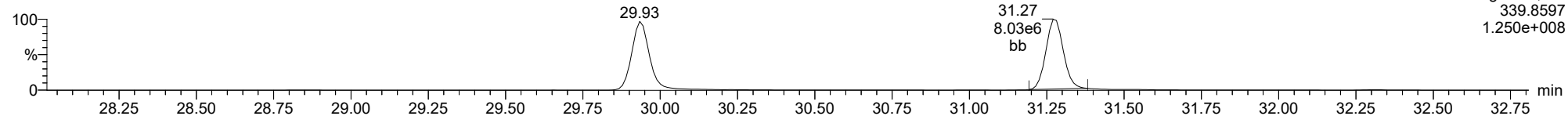


F2:Voltage SIR,EI+  
409.7974  
1.691e+005

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

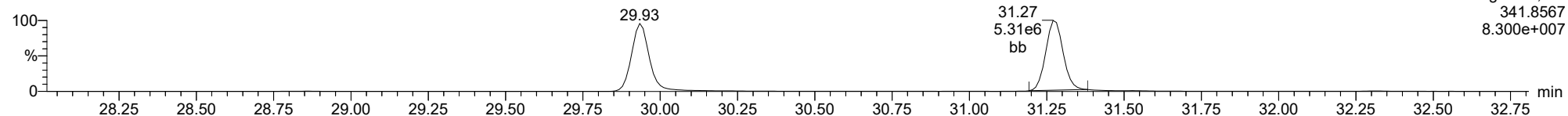
**23478-PeCDF**

23030309



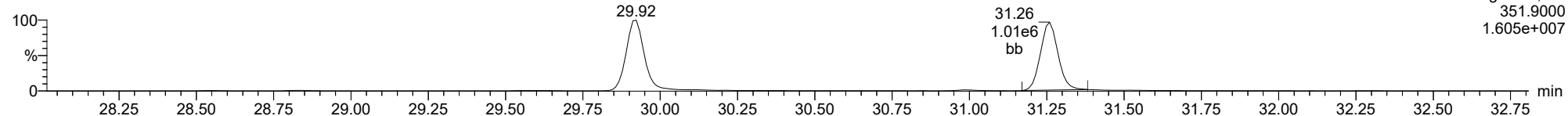
**23478-PeCDF**

23030309



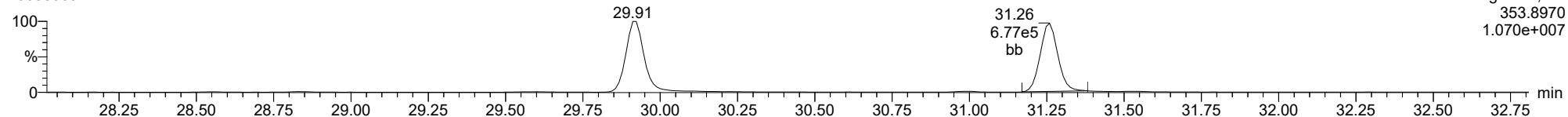
**13C-23478-PeCDF**

23030309



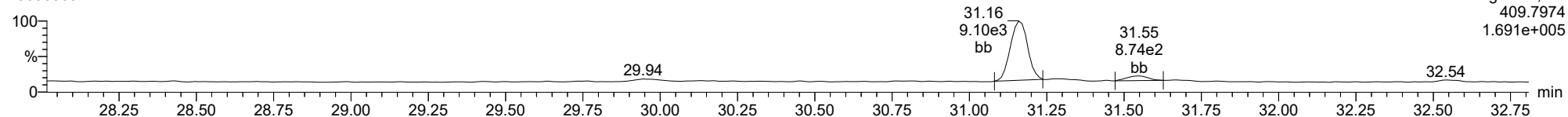
**13C-23478-PeCDF**

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**FUNCTION2 HPCDPE**

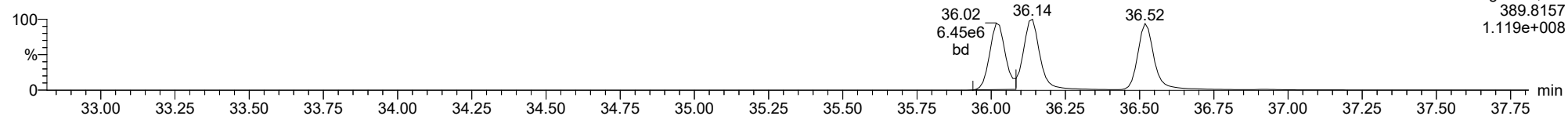
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

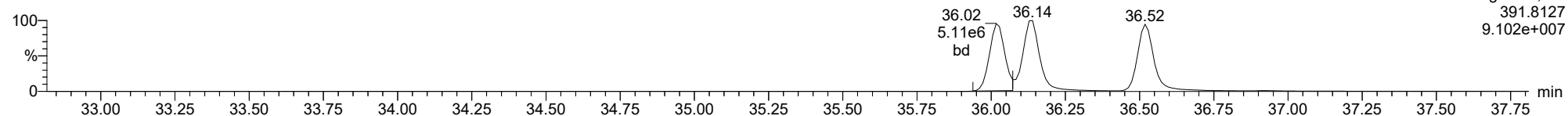
**123478-HxCDD**

23030309



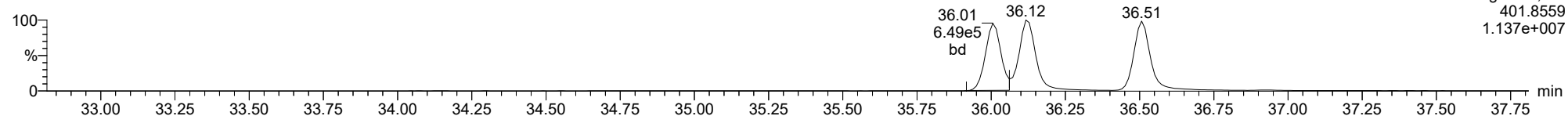
**123478-HxCDD**

23030309



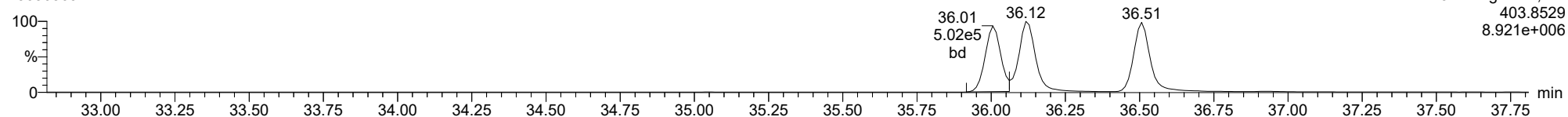
**13C-123478-HxCDD**

23030309



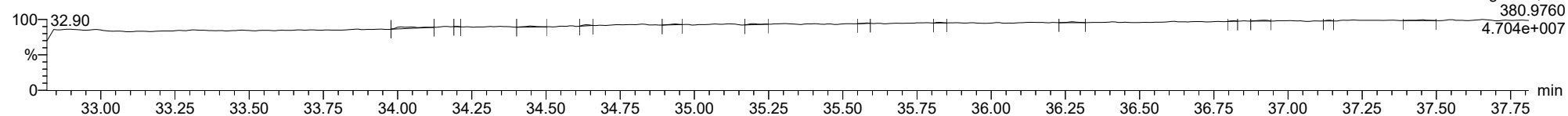
**13C-123478-HxCDD**

23030309



**FUNCTION3 PFK**

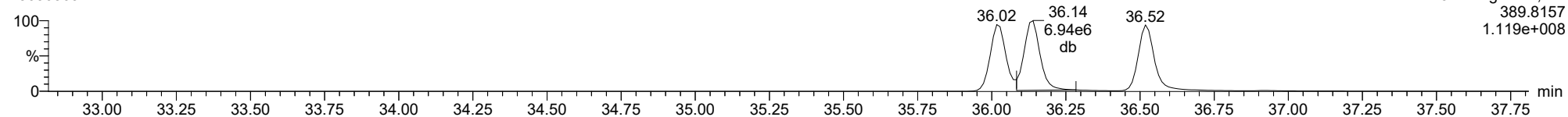
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

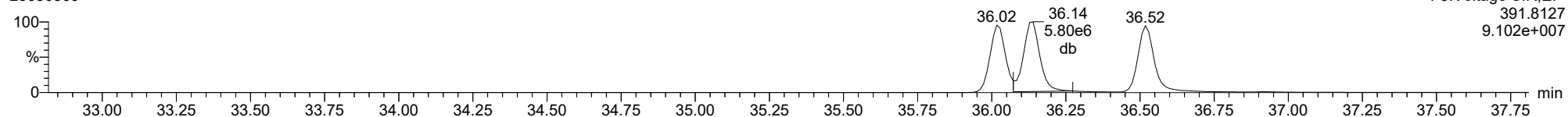
**123678-HxCDD**

23030309



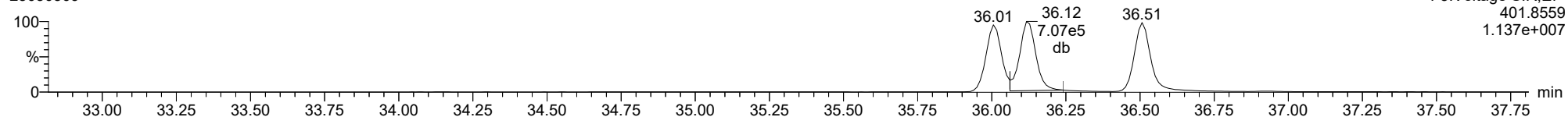
**123678-HxCDD**

23030309



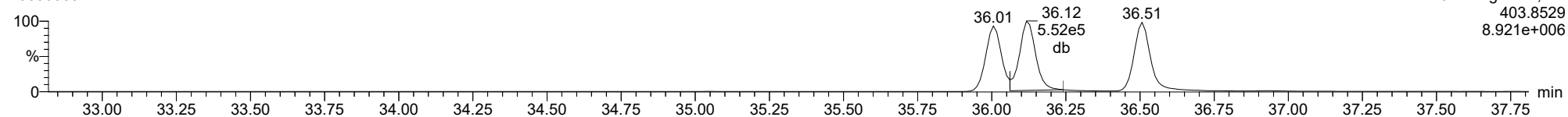
**13C-123678-HxCDD**

23030309



**13C-123678-HxCDD**

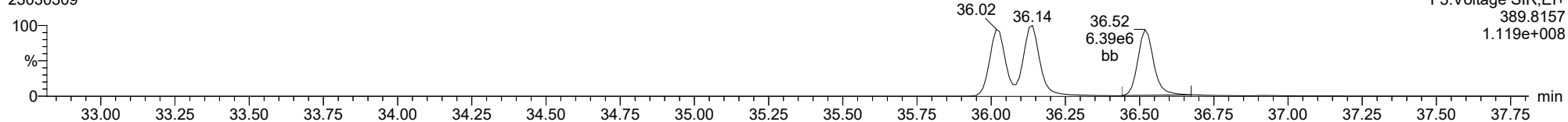
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

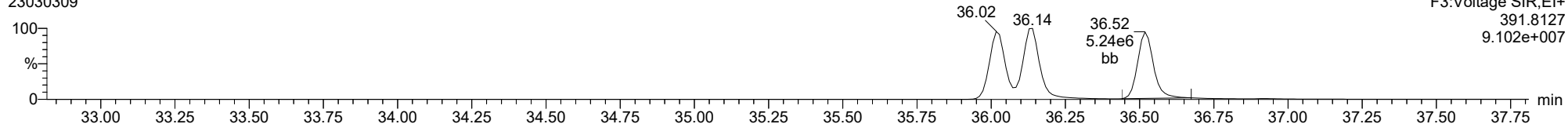
**123789-HxCDD**

23030309



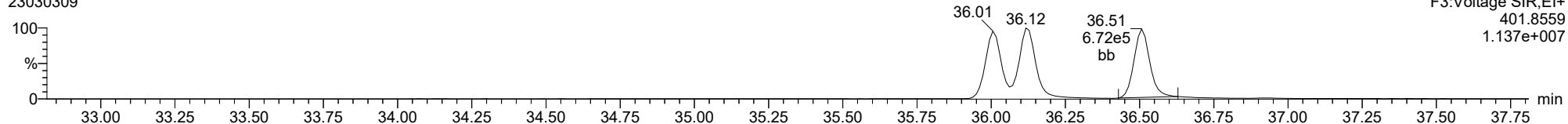
**123789-HxCDD**

23030309



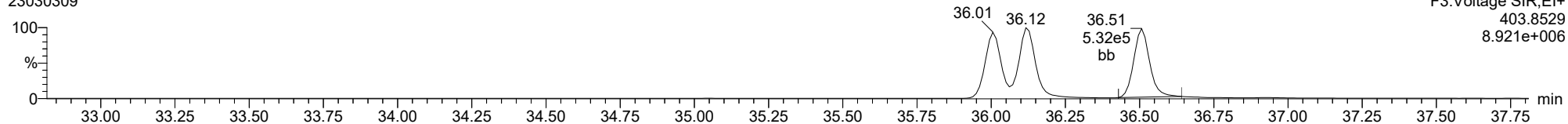
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**13C-123789-HxCDD**

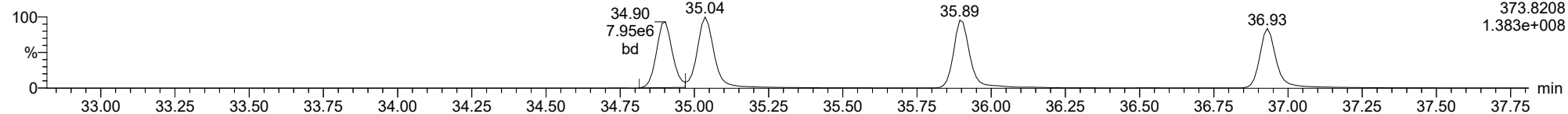
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

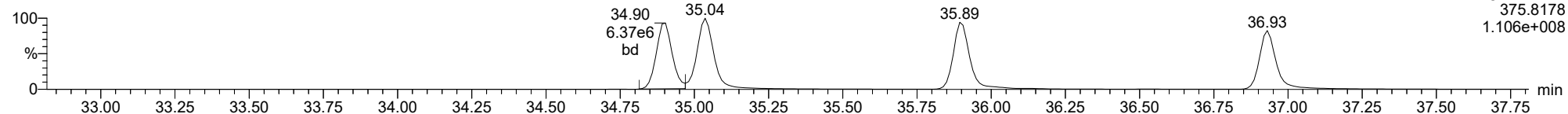
123478-HxCDF

23030309



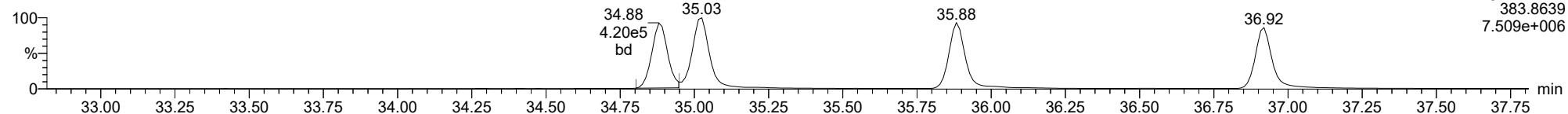
123478-HxCDF

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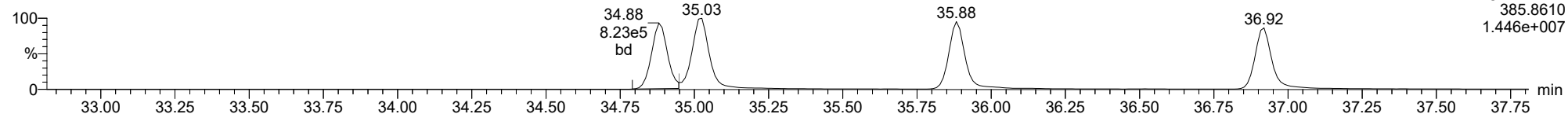
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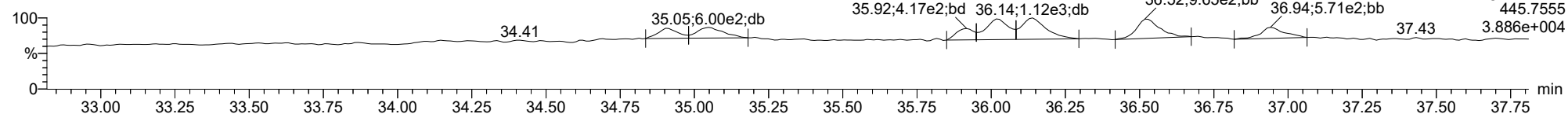
13C-123478-HxCDF

23030309



FUNCTION3 OCDPE

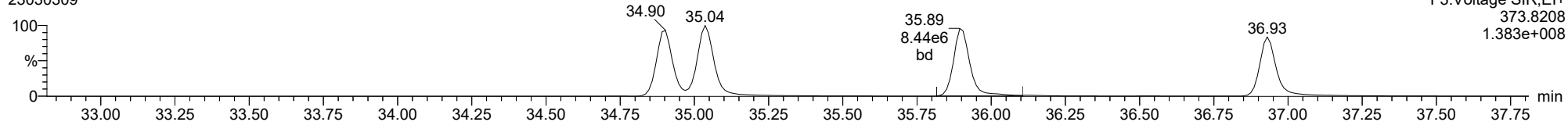
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

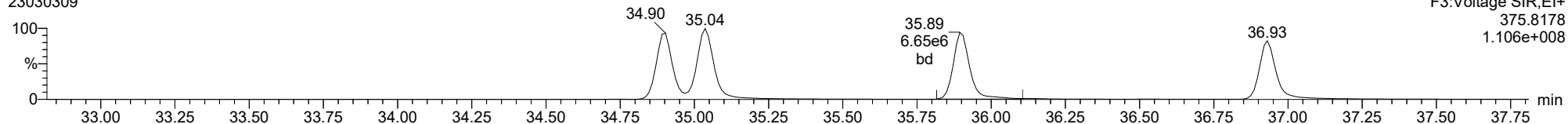
**234678-HxCDF**

23030309



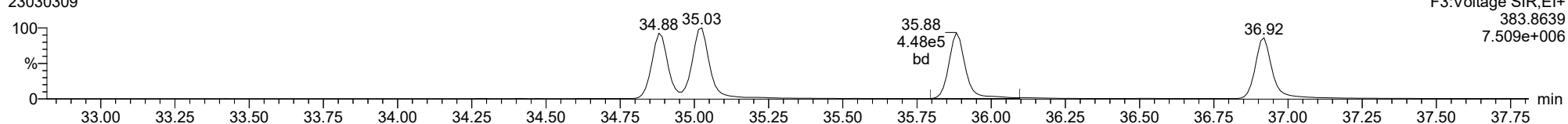
**234678-HxCDF**

23030309



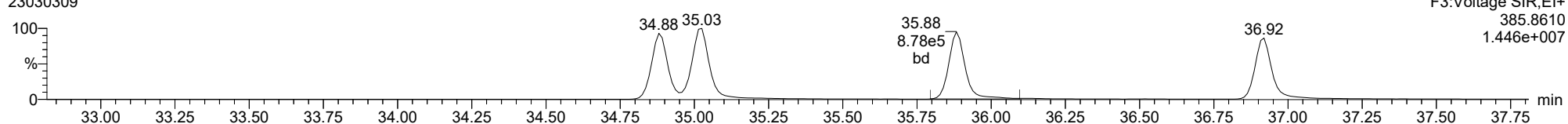
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23030309



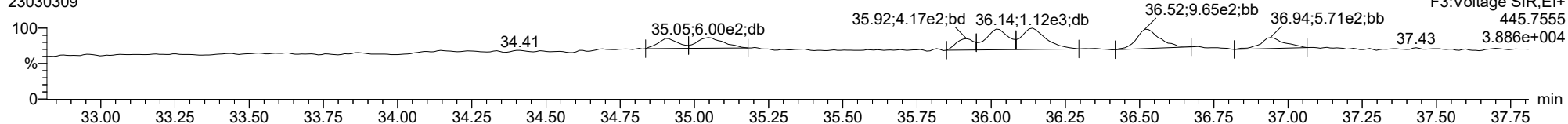
**13C-234678-HxCDF**

23030309



**FUNCTION3 OCDPE**

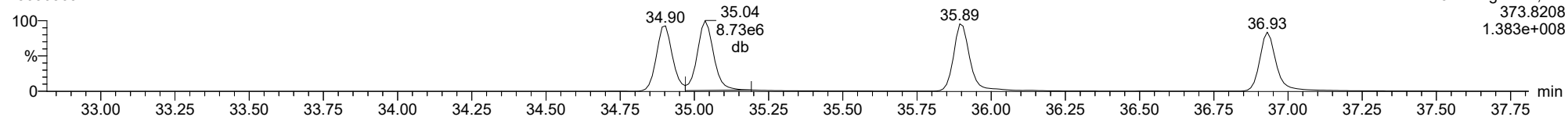
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

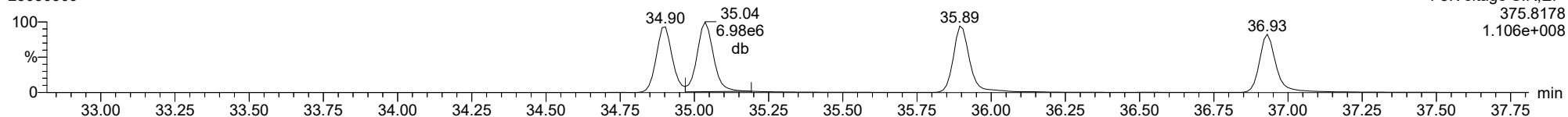
**123678-HxCDF**

23030309



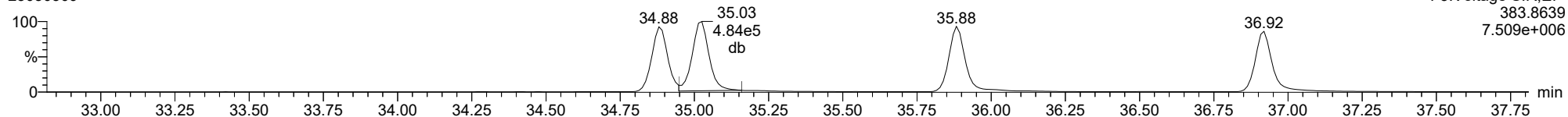
**123678-HxCDF**

23030309



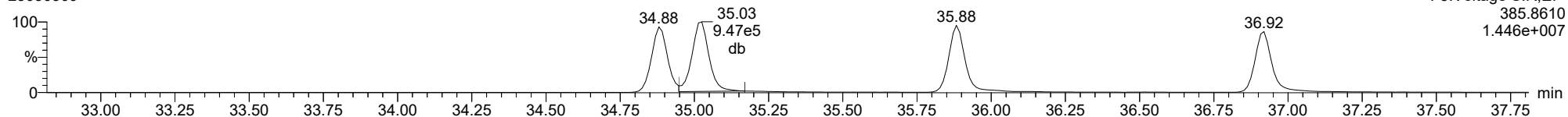
**13C-123678-HxCDF**

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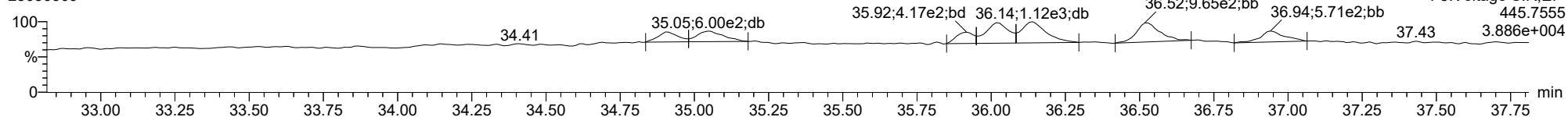
**13C-123678-HxCDF**

23030309



**FUNCTION3 OCDPE**

23030309

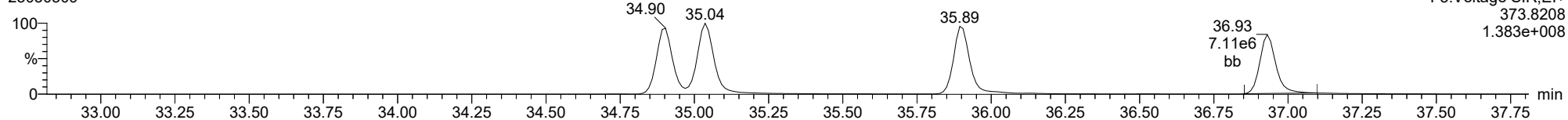




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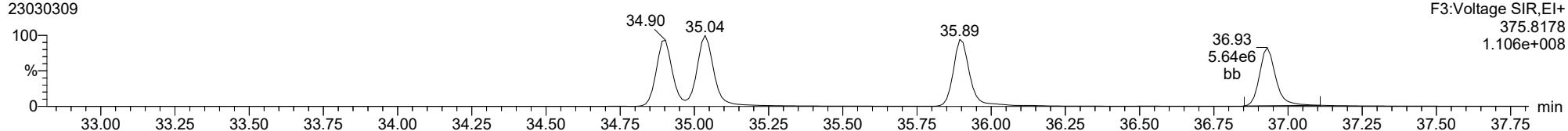
123789-HxCDF

23030309



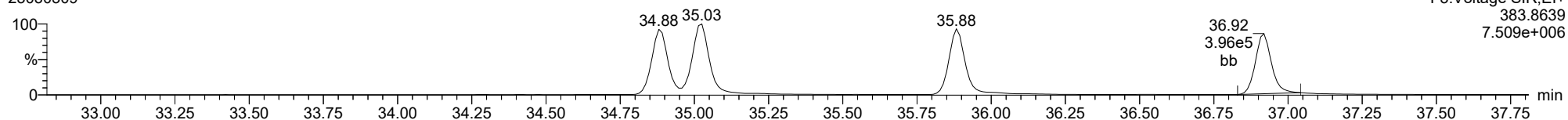
123789-HxCDF

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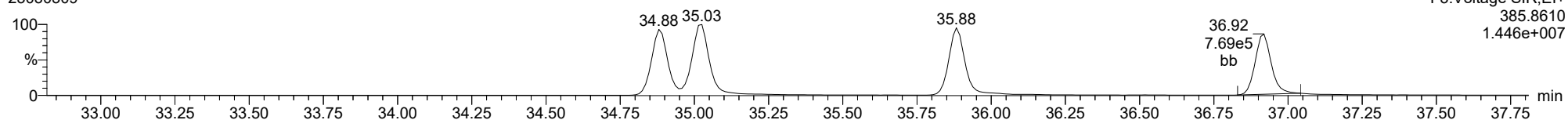
13C-123789-HxCDF

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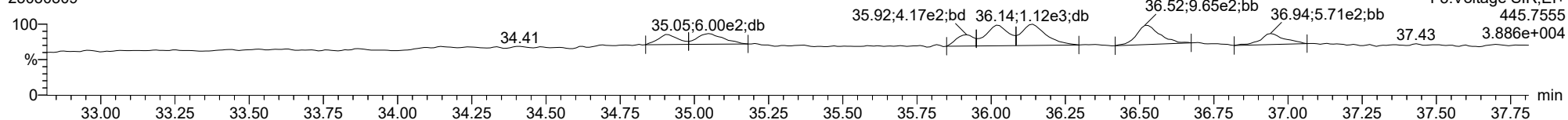
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FUNCTION3 OCDPE

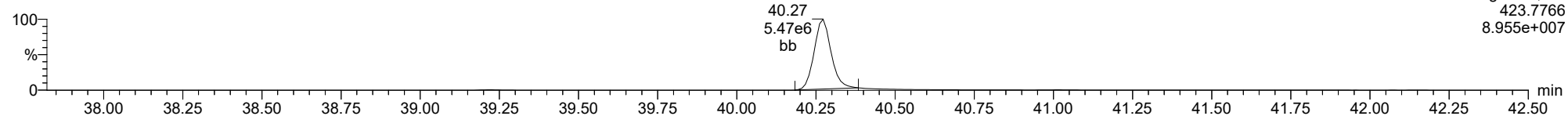
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

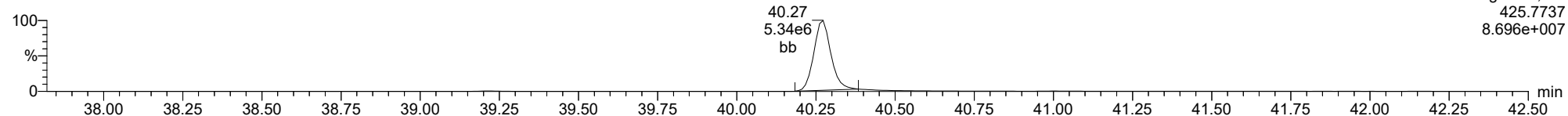
**1234678-HpCDD**

23030309



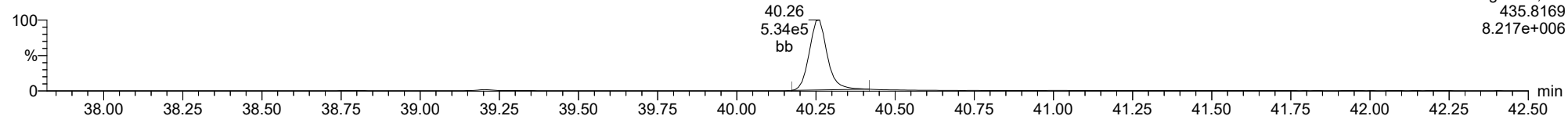
**1234678-HpCDD**

23030309



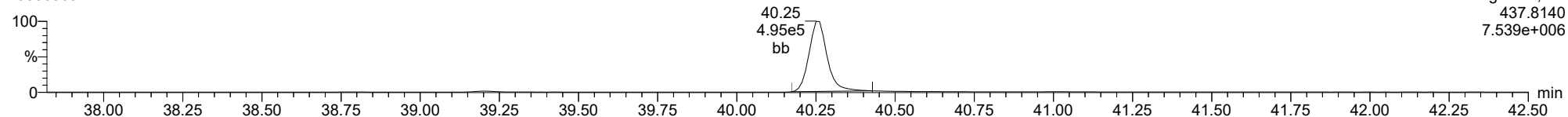
**13C-1234678-HpCDD**

23030309



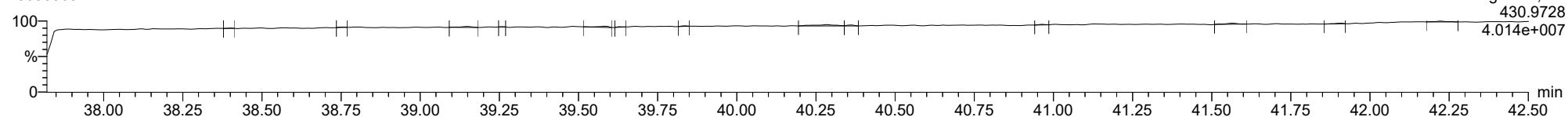
**13C-1234678-HpCDD**

23030309



**FUNCTION4 PFK**

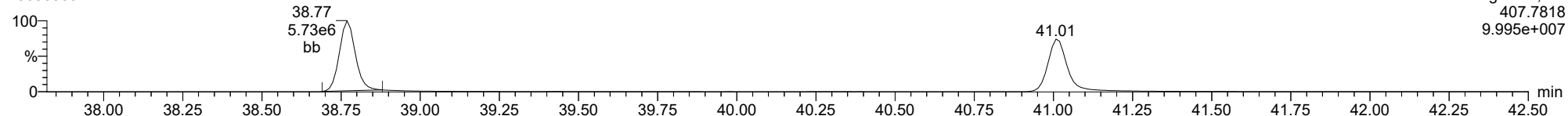
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDF**

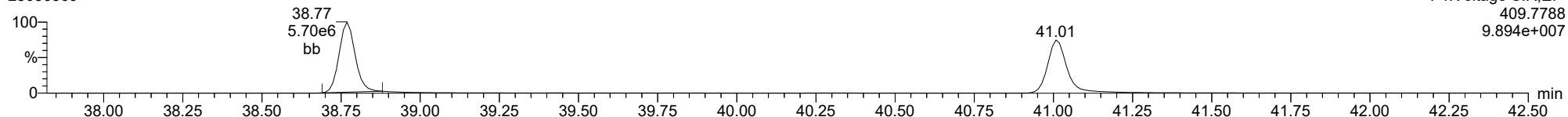
23030309



F4:Voltage SIR,EI+  
407.7818  
9.995e+007

**1234678-HpCDF**

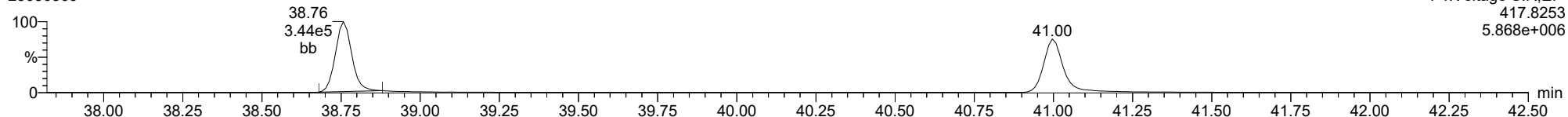
23030309



F4:Voltage SIR,EI+  
409.7788  
9.894e+007

**13C-1234678-HpCDF**

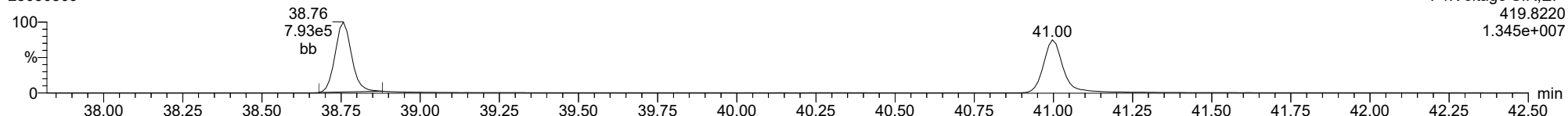
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F4:Voltage SIR,EI+  
417.8253  
5.868e+006

**13C-1234678-HpCDF**

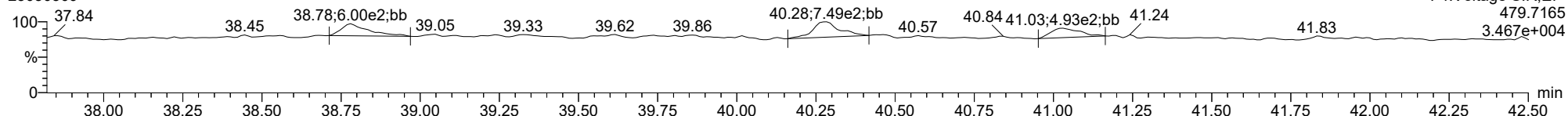
23030309



F4:Voltage SIR,EI+  
419.8220  
1.345e+007

**FUNCTION4 NCDPE**

23030309

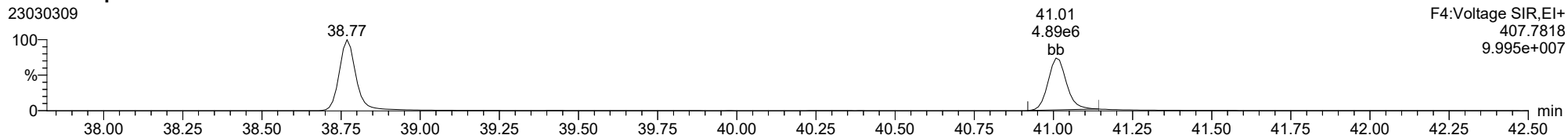


F4:Voltage SIR,EI+  
479.7165  
3.467e+004

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

**1234789-HpCDF**

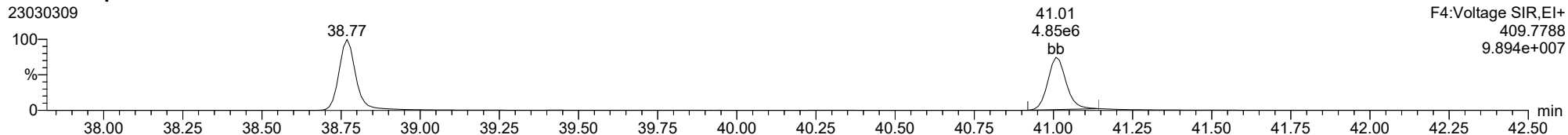
23030309



F4:Voltage SIR,EI+  
407.7818  
9.995e+007

**1234789-HpCDF**

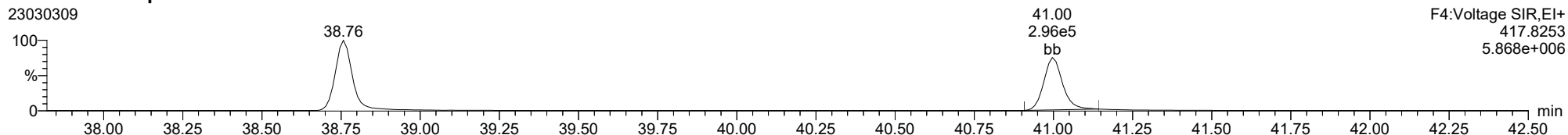
23030309



F4:Voltage SIR,EI+  
409.7788  
9.894e+007

**13C-1234789-HpCDF**

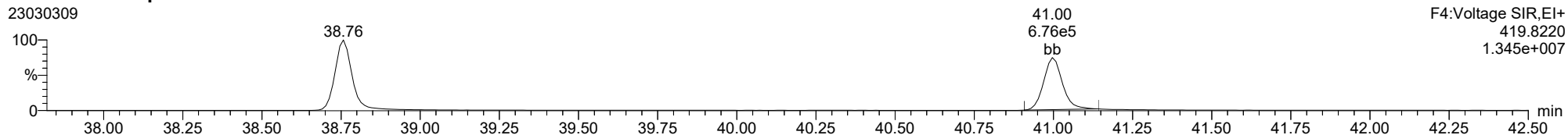
23030309



F4:Voltage SIR,EI+  
417.8253  
5.868e+006

**13C-1234789-HpCDF**

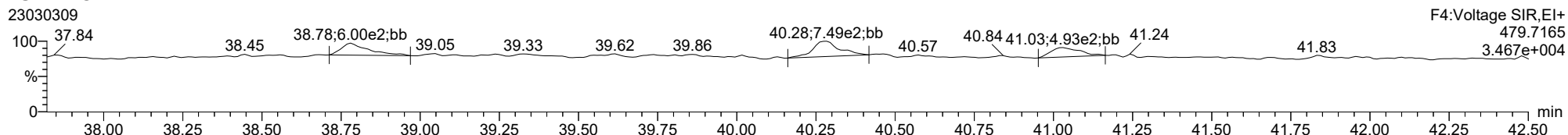
23030309



F4:Voltage SIR,EI+  
419.8220  
1.345e+007

**FUNCTION4 NCDPE**

23030309

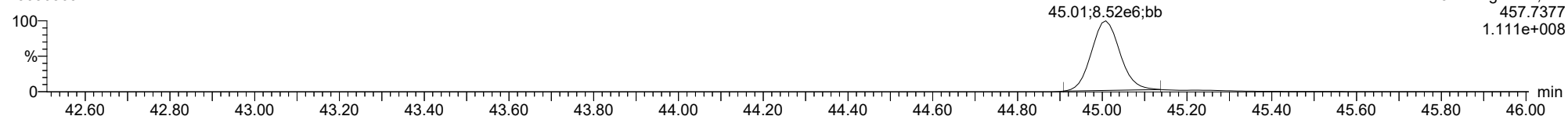


F4:Voltage SIR,EI+  
479.7165  
3.467e+004

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

**OCDD**

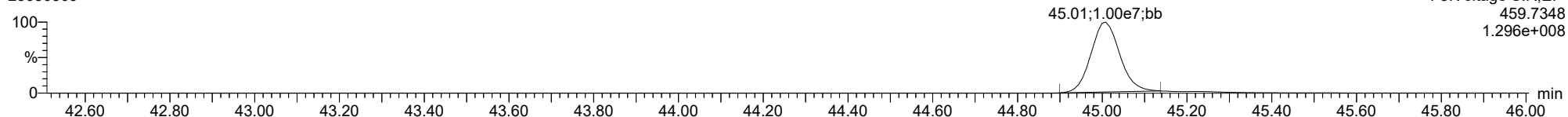
23030309



F5:Voltage SIR,EI+  
457.7377  
1.111e+008

**OCDD**

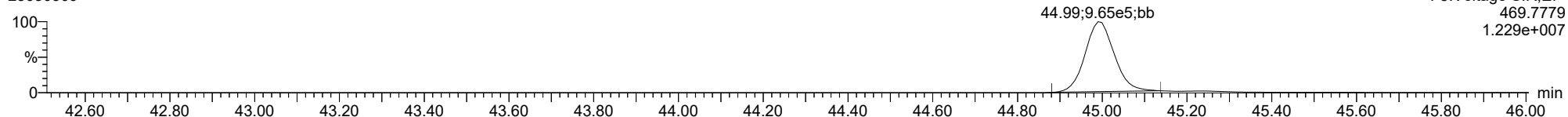
23030309



F5:Voltage SIR,EI+  
459.7348  
1.296e+008

**13C-OCDD**

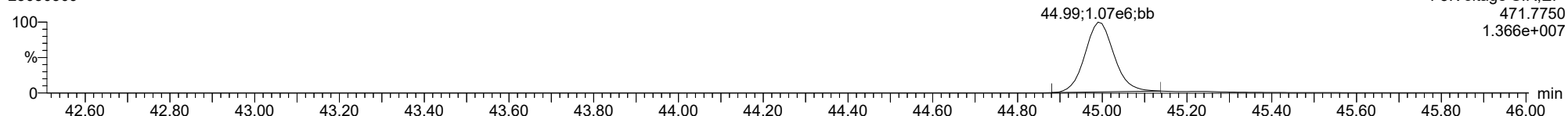
23030309



F5:Voltage SIR,EI+  
469.7779  
1.229e+007

**13C-OCDD**

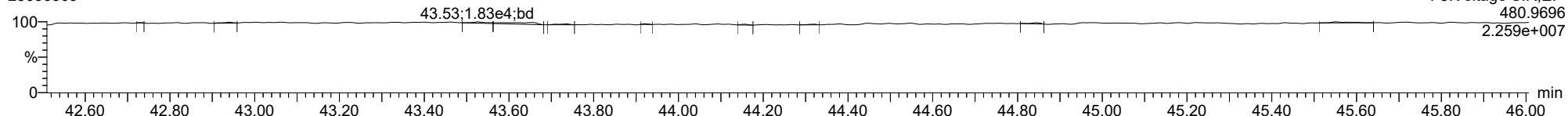
23030309



F5:Voltage SIR,EI+  
471.7750  
1.366e+007

**FUNCTION5 PFK**

23030309

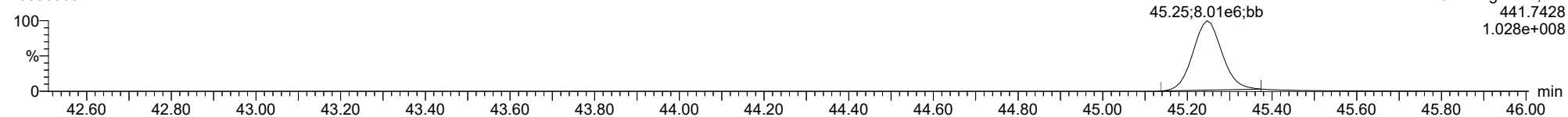


F5:Voltage SIR,EI+  
480.9696  
2.259e+007

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

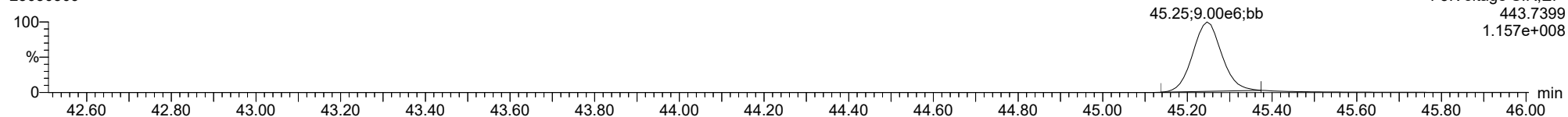
**OCDF**

23030309



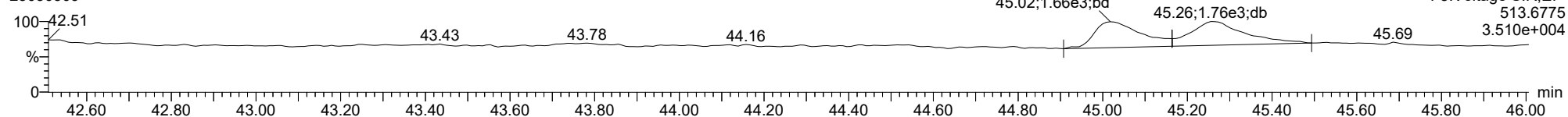
**OCDF**

23030309



**FUNCTION5 DCDPE**

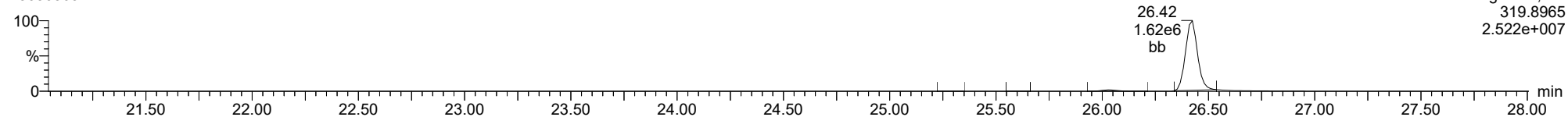
23030309



ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

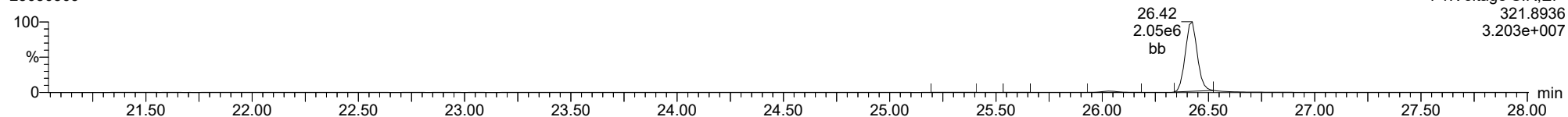
**Total-tetradoxins**

23030309



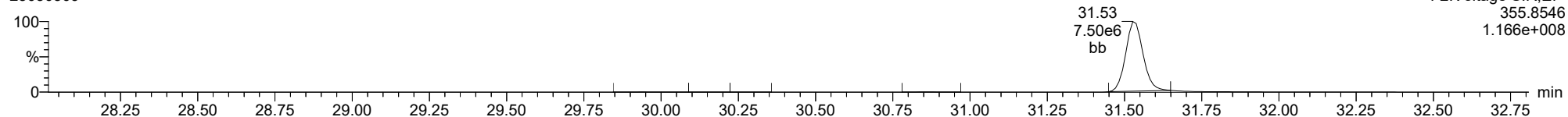
**Total-tetradoxins**

23030309



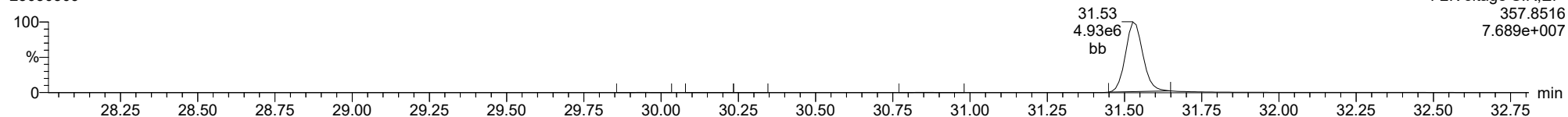
**Total-pentadoxins**

23030309



**Total-pentadoxins**

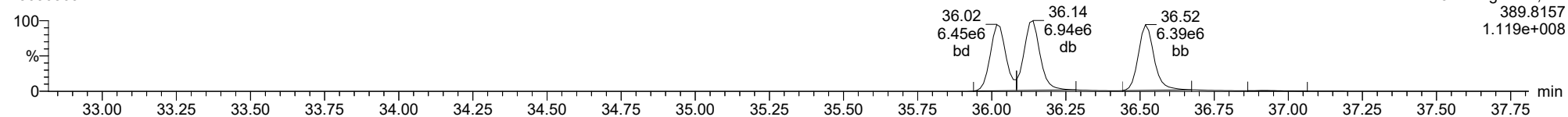
23030309



ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

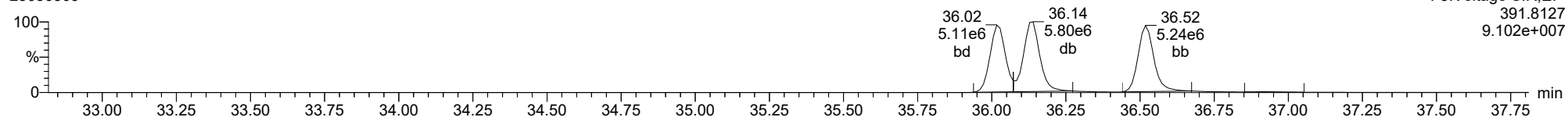
**Total-hexadioxins**

23030309



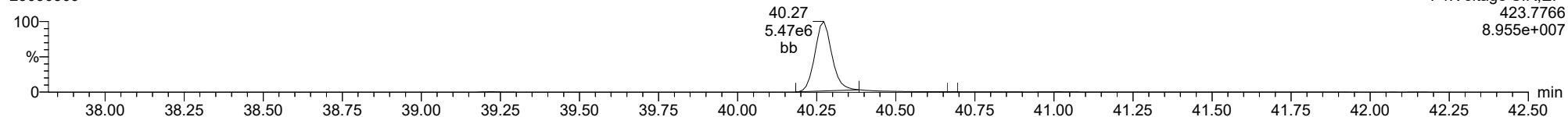
**Total-hexadioxins**

23030309



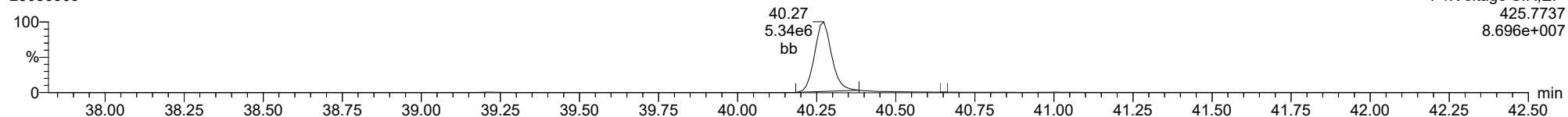
**Total-heptadioxins**

23030309



**Total-heptadioxins**

23030309

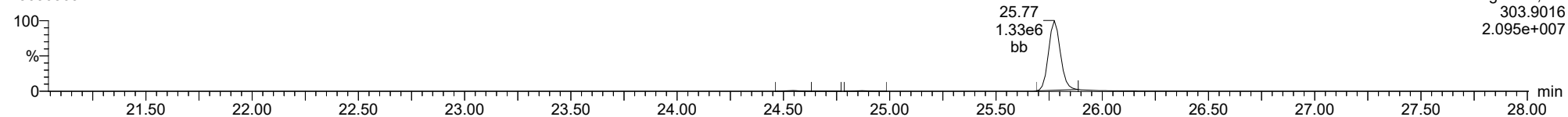




ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

**Total-tetrafurans**

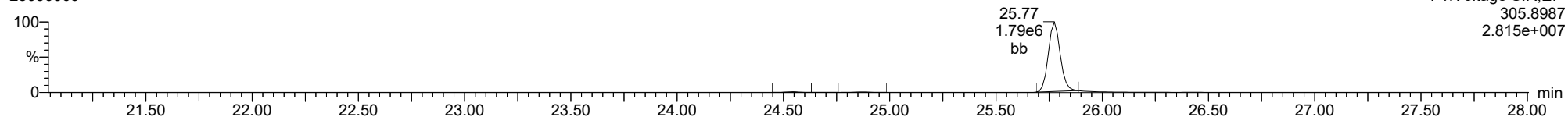
23030309



F1:Voltage SIR,EI+  
303.9016  
2.095e+007

**Total-tetrafurans**

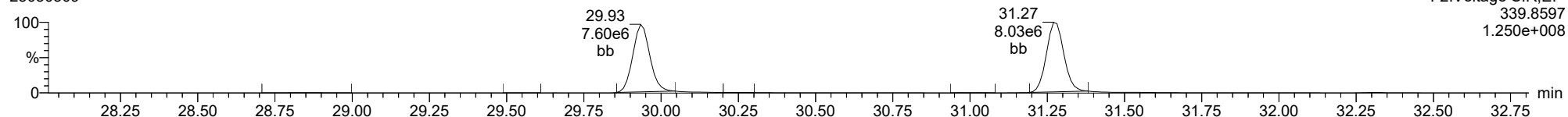
23030309



F1:Voltage SIR,EI+  
305.8987  
2.815e+007

**Total-pentafurans**

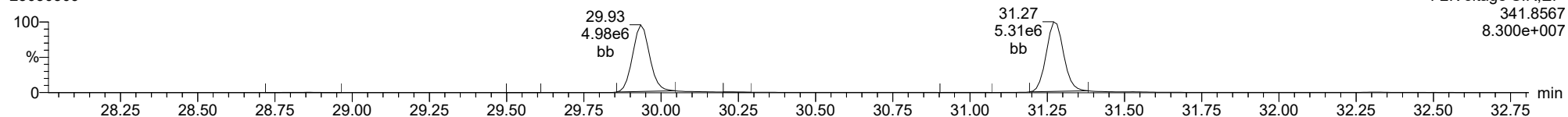
23030309



F2:Voltage SIR,EI+  
339.8597  
1.250e+008

**Total-pentafurans**

23030309

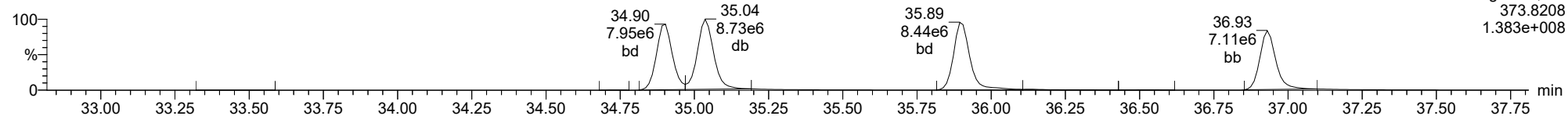


F2:Voltage SIR,EI+  
341.8567  
8.300e+007

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

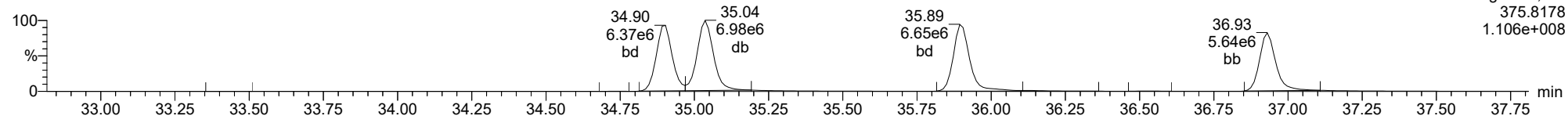
**Total-hexafurans**

23030309



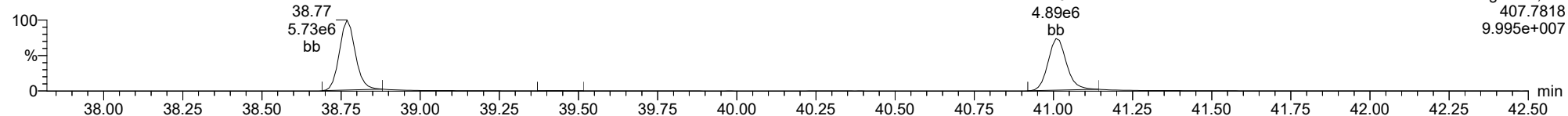
**Total-hexafurans**

23030309



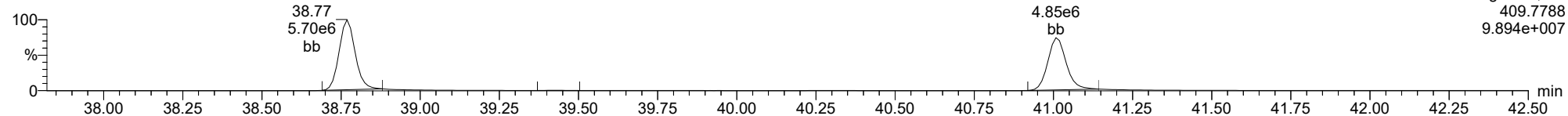
**Total-heptafurans**

23030309



**Total-heptafurans**

23030309



Dataset: T:\Autospec\Processed Data Batch\230303IHCIV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
 Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	5.338e4	7.452e4	0.702	0.716	0.770	1163	2029	8.36e5	1.13e6	718.7	556.3	NO	bb	bb	9.838
12378-PeCDF	29.934	1.000	2.214e5	1.526e5	0.679	1.451	1.550	3022	2812	3.24e6	2.15e6	1073.8	764.7	NO	bb	bd	51.391
23478-PeCDF	31.271	1.000	2.350e5	1.508e5	0.786	1.559	1.550	3022	2812	3.42e6	2.23e6	1131.6	792.3	NO	bb	bb	48.980
123478-HxCDF	34.903	1.001	2.903e5	2.325e5	1.166	1.248	1.240	3142	2543	4.30e6	3.42e6	1370.1	1344.7	NO	bd	bd	48.245
234678-HxCDF	35.905	1.001	2.873e5	2.291e5	1.140	1.254	1.240	3142	2543	4.27e6	3.38e6	1358.7	1330.7	NO	bb	bb	50.224
123678-HxCDF	35.036	1.001	3.271e5	2.812e5	1.091	1.163	1.240	3142	2543	4.70e6	3.76e6	1497.0	1479.3	NO	db	db	47.992
123789-HxCDF	36.930	1.001	2.403e5	1.952e5	1.137	1.231	1.240	3142	2543	3.49e6	2.77e6	1110.7	1088.1	NO	bb	bb	49.077
1234678-HpCDF	38.769	1.000	2.051e5	2.017e5	1.003	1.017	1.050	2774	2508	3.29e6	3.29e6	1185.4	1309.8	NO	bb	bb	51.838
1234789-HpCDF	41.008	1.000	1.584e5	1.578e5	0.953	1.004	1.050	2774	2508	2.19e6	2.22e6	790.9	884.0	NO	bb	bb	48.461
OCDF	45.237	1.006	2.094e5	2.177e5	0.778	0.962	0.890	1876	1660	2.24e6	2.46e6	1194.3	1483.7	NO	bd	bb	103.506
2378-TCDD	26.424	1.001	6.583e4	8.225e4	1.149	0.800	0.770	1514	1206	9.92e5	1.24e6	654.9	1028.2	NO	bb	bb	9.815
12378-PeCDD	31.538	1.001	2.257e5	1.459e5	1.022	1.547	1.550	2000	2144	3.28e6	2.13e6	1638.2	994.7	NO	bb	bb	48.547
123478-HxCDD	36.016	1.000	2.316e5	1.815e5	0.996	1.276	1.240	2983	1710	3.62e6	3.01e6	1214.5	1762.3	NO	bd	bd	50.799
123678-HxCDD	36.139	1.001	2.694e5	2.159e5	1.001	1.248	1.240	2983	1710	3.76e6	3.05e6	1260.5	1785.9	NO	db	db	50.174
123789-HxCDD	36.518	1.011	2.330e5	1.844e5	0.907	1.263	1.240	2983	1710	3.29e6	2.69e6	1104.0	1571.7	NO	bd	bb	51.608
1234678-HpCDD	40.272	1.001	1.962e5	1.803e5	1.039	1.088	1.050	2922	2339	2.72e6	2.60e6	932.5	1113.0	NO	bd	bb	49.199
OCDD	44.999	1.000	2.234e5	2.618e5	0.920	0.853	0.890	1774	1393	2.65e6	3.06e6	1496.5	2199.2	NO	bb	bb	99.422
13C-2378-TCDF	25.760	1.007	7.988e5	1.054e6	1.620	0.758	0.770	2799	1492	1.21e7	1.60e7	4320.8	10737.9	NO	bb	bb	96.925
13C-12378-PeCDF	29.923	1.169	6.425e5	4.290e5	1.240	1.498	1.550	3398	4585	8.78e6	5.86e6	2583.4	1278.4	NO	bd	bd	73.193
13C-23478-PeCDF	31.259	1.222	6.035e5	3.982e5	1.118	1.515	1.550	3398	4585	8.73e6	5.79e6	2568.3	1261.6	NO	bb	bb	75.943
13C-123478-HxCDF	34.880	0.955	3.186e5	6.107e5	1.168	0.522	0.510	2913	2215	4.74e6	9.25e6	1627.4	4175.4	NO	bd	bd	92.972
13C-123678-HxCDF	35.014	0.959	3.885e5	7.735e5	1.386	0.502	0.510	2913	2215	5.29e6	1.03e7	1816.0	4636.7	NO	dd	db	97.958
13C-234678-HxCDF	35.883	0.983	3.009e5	6.013e5	1.129	0.500	0.510	2913	2215	4.56e6	8.94e6	1567.0	4037.6	NO	bb	bb	93.371
13C-123789-HxCDF	36.908	1.011	2.634e5	5.171e5	0.932	0.509	0.510	2913	2215	3.83e6	7.41e6	1313.2	3346.2	NO	bb	bb	97.906
13C-1234678-HpCDF	38.757	1.062	2.395e5	5.428e5	0.895	0.441	0.440	2666	4327	3.79e6	8.70e6	1422.6	2009.5	NO	bb	bb	102.148
13C-1234789-HpCDF	40.997	1.123	1.971e5	4.875e5	0.770	0.404	0.440	2666	4327	2.64e6	6.15e6	990.0	1422.1	NO	bb	bb	103.953
13C-1234-TCDD	25.591	0.000	5.239e5	6.562e5	1.000	0.798	0.770	2541	1448	8.13e6	1.01e7	3200.8	6994.1	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	5.859e5	7.277e5	1.152	0.805	0.770	2541	1448	8.48e6	1.06e7	3338.5	7327.1	NO	bb	bb	96.583
13C-12378-PeCDD	31.515	1.232	4.640e5	2.850e5	0.829	1.628	1.550	1690	813	6.82e6	4.16e6	4037.7	5122.1	NO	bb	bb	76.570
13C-123478-HxCDD	36.005	0.986	4.566e5	3.601e5	0.995	1.268	1.240	2230	1571	7.33e6	5.72e6	3288.3	3642.7	NO	bd	bd	95.938
13C-123678-HxCDD	36.117	0.989	5.277e5	4.388e5	1.157	1.203	1.240	2230	1571	7.53e6	5.98e6	3378.3	3806.0	NO	db	db	97.660
13C-1234678-HpCDD	40.250	1.102	3.788e5	3.578e5	0.840	1.059	1.050	1327	2781	5.06e6	4.73e6	3813.0	1700.4	NO	bd	bb	102.476
13C-OCDD	44.981	1.232	5.015e5	5.594e5	0.767	0.896	0.890	2228	1562	5.65e6	6.37e6	2536.4	4080.5	NO	bb	bb	161.563
13C-123789-HxCDD	36.507	0.000	4.814e5	3.742e5	1.000	1.287	1.240	2230	1571	7.02e6	5.48e6	3149.1	3490.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	1.324e5		1.288			2249		1.92e6		853.0			bb		8.714

Dataset: T:\Autospec\Processed Data Batch\230303\HICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

**ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.271	0.865	6.666e4	8.755e4	0.802	0.761	0.770	1163	2029	1.09e6	1.45e6	933.7	713.4	NO	bb	bb	10.382
1289-TCDF	27.272	1.059	5.306e4	7.400e4	0.678	0.717	0.770	1163	2029	8.00e5	1.11e6	688.3	549.0	NO	bb	db	10.112
13468-PECDF	27.130	0.907	5.428e5	3.536e5	1.246	1.535	1.550	921	1306	8.56e6	5.56e6	9287.8	4254.6	NO	bb	bb	67.124
12389-PECDF	32.307	1.080	2.363e5	1.551e5	0.496	1.524	1.550	3022	2812	3.29e6	2.19e6	1088.1	777.6	NO	bb	bb	73.589
123468-HXCDF	33.231	0.953	3.102e5	2.472e5	1.169	1.255	1.240	3142	2543	4.60e6	3.67e6	1465.3	1443.2	NO	bb	bb	51.304
1368-TCDD	23.557	0.892	6.641e4	8.365e4	1.015	0.794	0.770	1514	1206	1.07e6	1.32e6	704.3	1092.4	NO	bb	bb	11.251
1289-TCDD	27.017	1.023	6.055e4	8.062e4	0.909	0.751	0.770	1514	1206	8.59e5	1.12e6	567.6	932.6	NO	bd	bd	11.826
12479-PECDD	28.819	0.914	4.776e5	3.067e5	2.301	1.557	1.550	2000	2144	4.46e6	2.89e6	2227.8	1348.6	NO	bb	bb	45.504
12389-PECDD	31.928	1.013	2.675e5	1.746e5	1.184	1.532	1.550	2000	2144	3.96e6	2.51e6	1980.6	1171.6	NO	bb	bb	49.870
124679-HXCDD	34.011	0.945	2.545e5	2.054e5	1.115	1.239	1.240	2983	1710	3.72e6	3.05e6	1245.7	1780.9	NO	bb	bb	50.484
1234679-HPCDD	39.225	0.975	2.082e5	2.022e5	1.137	1.029	1.050	2922	2339	3.21e6	3.09e6	1099.8	1322.5	NO	bb	bb	49.010
Total-tetrafurans			1.731e5		0.727			1163		2.72e6							30.332
Total-penta1			5.428e5					921		8.56e6							67.124
Total-penta-furans			7.375e5		0.654			3022		1.06e7							184.995
Total-hexa-furans			1.455e6		1.141			3142		2.14e7							246.841
Total-hepta-furans			3.635e5		0.978			2774		5.48e6							100.299
Total-Furans			3.482e6		0.922			1163		5.10e7							733.097
Total-tetradioxins			3.292e5		1.024			1514		4.53e6							56.345
Total-pentadioxins			9.708e5		1.502			2000		1.17e7							143.922
Total-hexadioxins			9.885e5		1.005			2983		1.44e7							203.065
Total-heptadioxins			4.044e5		1.088			2922		5.94e6							98.208
Total-Dioxins			2.916e6		1.130			1514		3.92e7							600.962
Total-TEQ			6.398e6					1514		9.02e7							1334.059
FUNCTION1 PFK			0.000e0					539943		0.00e0							
FUNCTION2 PFK			2.253e6					228820		1.84e6							0.000
FUNCTION3 PFK			3.977e4					386595		8.75e5							0.000
FUNCTION4 PFK			7.296e4					280107		2.70e6							
FUNCTION5 PFK			1.323e3					209307		1.46e5							
FUNCTION1 HXCD...			6.633e2					708		9.34e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			5.152e2					1165		9.44e3							0.000
FUNCTION3 OCDPE			5.246e2					459		6.83e3							0.000
FUNCTION4 NCDPE			4.889e2					641		6.04e3							0.000
FUNCTION5 DCDPE			0.000e0					644		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\IHICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50**

**Calibration: T:\Autospec\Curves\230303\ICIH.cdb 06 Mar 2023 10:57:27**

**ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk**

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
2	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
3	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
4	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
2	123468-HxCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
3	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
4	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
5	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
2	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\HICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

**ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk**

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382
4	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
5	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
6	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
7	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035
8	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
9	123468-HxCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
10	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
11	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
12	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992
13	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
14	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461
15	OCDF	45.24	2.094e5	2.177e5	0.778	0.96	0.89	1194.3	YES	NO	bd	bb	103.506
16	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
2	Total-tetradoxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
3	Total-tetradoxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
4	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
5	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
6	Total-tetradoxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
7	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
8	Total-tetradoxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
2	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
3	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2303031\HICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

**ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk**

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
2	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
3	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
4	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
2	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
2	Total-tetradoxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
3	Total-tetradoxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
4	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
5	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
6	Total-tetradoxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
7	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
8	Total-tetradoxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347
9	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
10	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
11	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504
12	124679-HxCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
13	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
14	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
15	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799
16	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
17	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199
18	OCDD	45.00	2.234e5	2.618e5	0.920	0.85	0.89	1496.5	YES	NO	bb	bb	99.422

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230303\HICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382
4	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
5	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
6	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
7	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035
8	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
9	123468-HXCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
10	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
11	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
12	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992
13	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
14	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461
15	OCDF	45.24	2.094e5	2.177e5	0.778	0.96	0.89	1194.3	YES	NO	bd	bb	103.506
16	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124
17	Total-tetradiioxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
18	Total-tetradiioxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
19	Total-tetradiioxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
20	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
21	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
22	Total-tetradiioxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
23	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
24	Total-tetradiioxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347
25	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
26	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
27	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504
28	124679-HXCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
29	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
30	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
31	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799
32	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
33	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199
34	OCDD	45.00	2.234e5	2.618e5	0.920	0.85	0.89	1496.5	YES	NO	bb	bb	99.422



ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.14	2.253e6					8.0	YES		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.08	3.977e4					2.3	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.32	4.162e3					0.8	NO		bb		
2	FUNCTION4 PFK	40.68	1.340e4					1.2	NO		bb		
3	FUNCTION4 PFK	40.50	1.024e4					1.3	NO		bb		
4	FUNCTION4 PFK	40.07	1.056e4					1.2	NO		bb		
5	FUNCTION4 PFK	39.50	1.007e4					1.4	NO		bb		
6	FUNCTION4 PFK	42.14	1.085e4					1.0	NO		bb		
7	FUNCTION4 PFK	42.10	6.400e3					1.1	NO		bb		
8	FUNCTION4 PFK	41.87	1.885e3					0.6	NO		bb		
9	FUNCTION4 PFK	41.61	5.389e3					0.9	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.23	1.323e3					0.7	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\HICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

**ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk**

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.55	1.589e2					2.0	NO		db		0.000
2	FUNCTION1 HXCD...	26.42	1.755e2					3.2	YES		bd		0.000
3	FUNCTION1 HXCD...	25.59	9.854e1					1.9	NO		bb		0.000
4	FUNCTION1 HXCD...	23.87	7.096e1					1.9	NO		bb		0.000
5	FUNCTION1 HXCD...	23.56	8.003e1					2.4	NO		bb		0.000
6	FUNCTION1 HXCD...	22.40	7.940e1					1.8	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.33	1.101e2					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	28.89	7.875e1					1.7	NO		bb		0.000
3	FUNCTION2 HPCD...	31.17	3.263e2					4.7	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	1.586e2					5.0	YES		bb		0.000
2	FUNCTION3 OCDPE	36.13	1.909e2					4.9	YES		db		0.000
3	FUNCTION3 OCDPE	35.99	1.751e2					5.1	YES		bd		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.06	1.247e2					2.2	NO		db		0.000
2	FUNCTION4 NCDPE	40.94	7.187e1					1.7	NO		bd		0.000
3	FUNCTION4 NCDPE	40.37	7.003e1					1.7	NO		db		0.000
4	FUNCTION4 NCDPE	40.26	2.223e2					3.8	YES		bd		0.000

**ETHERS6**

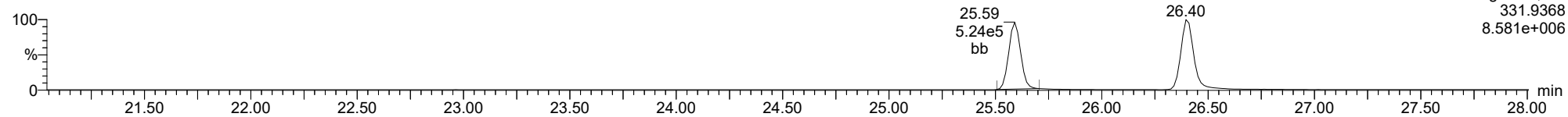
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Method:** T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
**Calibration:** T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

**ID:** ICVCW, **Name:** 23030310, **Date:** 03-Mar-2023, **Time:** 16:36:24, **Conditions:** AUTOSPEC01, **User:** pk

**13C-1234-TCDD**

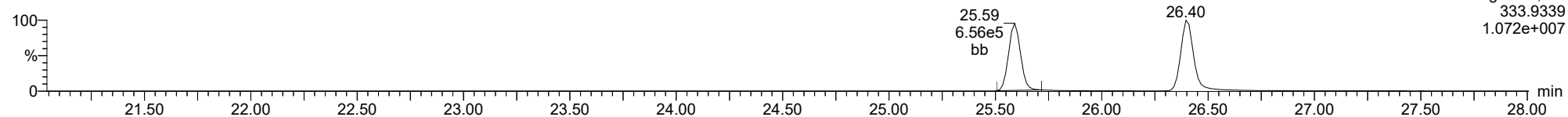
23030310



F1:Voltage SIR,El+  
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8.581e+006

**13C-1234-TCDD**

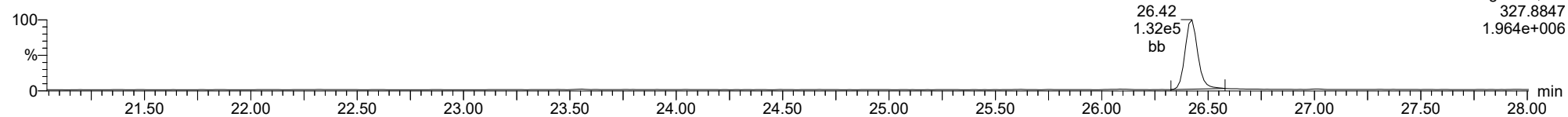
23030310



F1:Voltage SIR,El+  
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1.072e+007

**37CL-2378-TCDD**

23030310

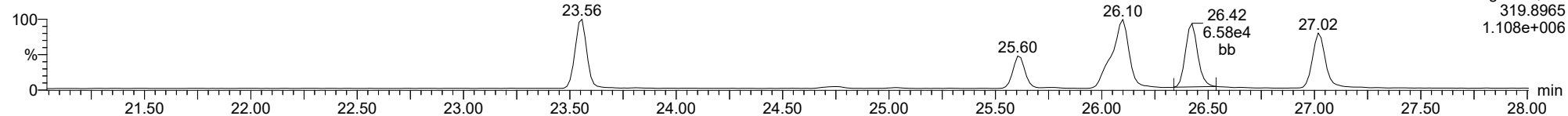


F1:Voltage SIR,El+  
327.8847  
1.964e+006

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

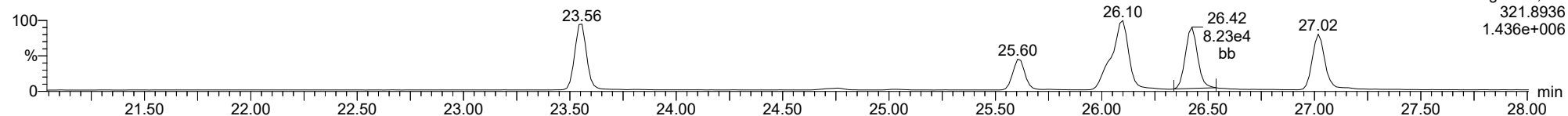
**2378-TCDD**

23030310



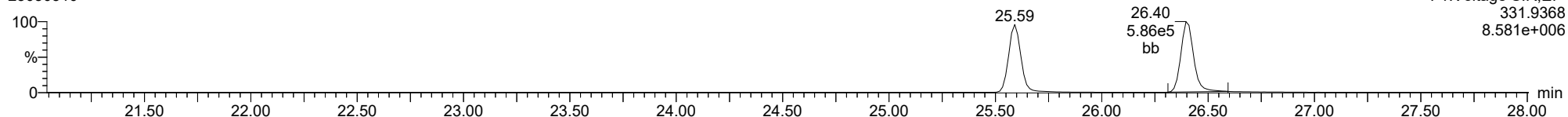
**2378-TCDD**

23030310



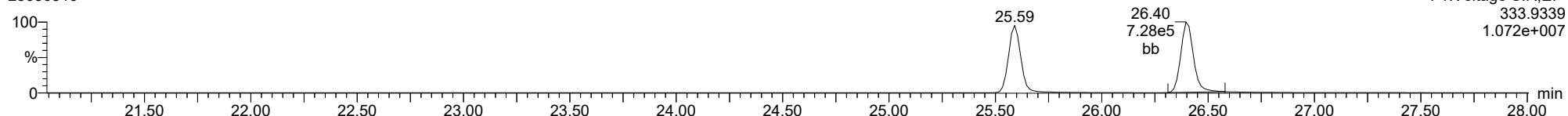
**13C-2378-TCDD**

23030310



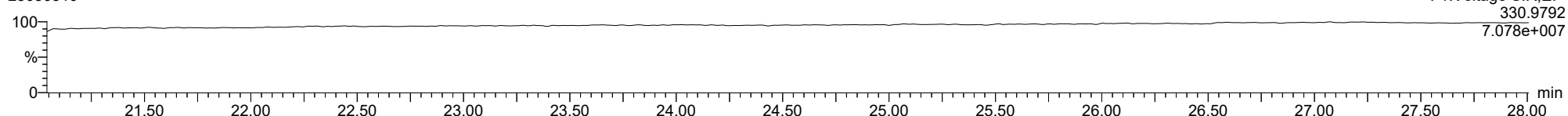
**13C-2378-TCDD**

23030310



**FUNCTION1 PFK**

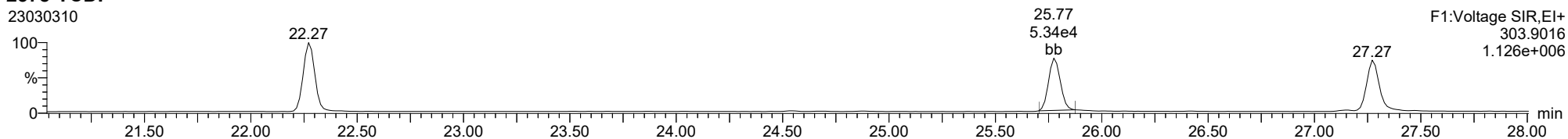
23030310



ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

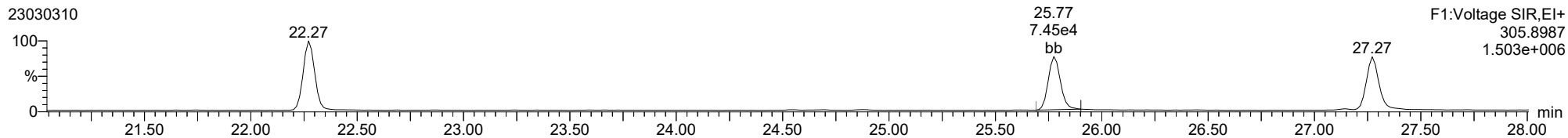
**2378-TCDF**

23030310



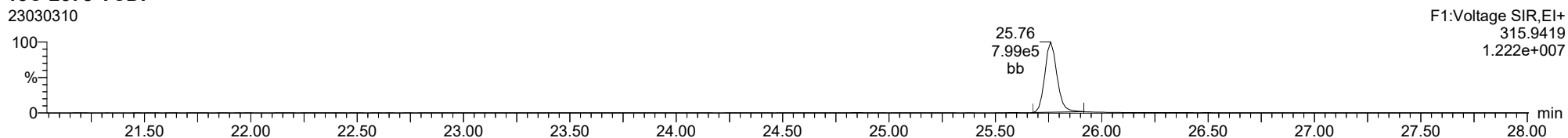
**2378-TCDF**

23030310



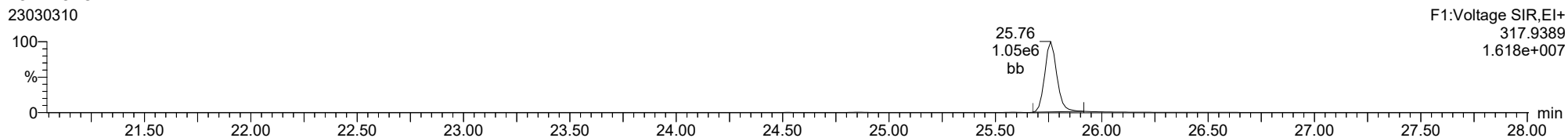
**13C-2378-TCDF**

23030310



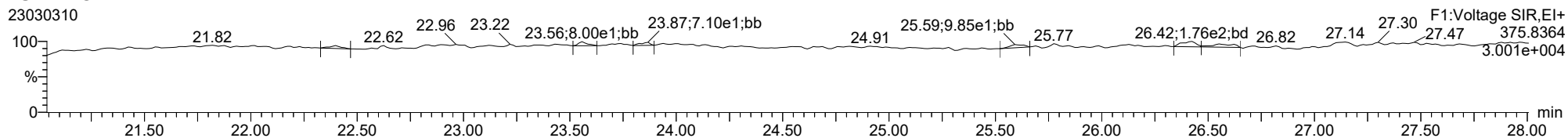
**13C-2378-TCDF**

23030310



**FUNCTION1 HXCDPE**

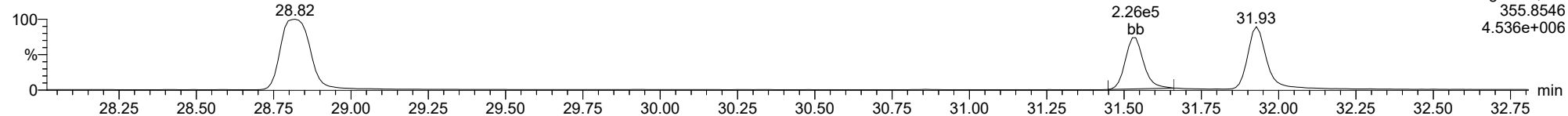
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

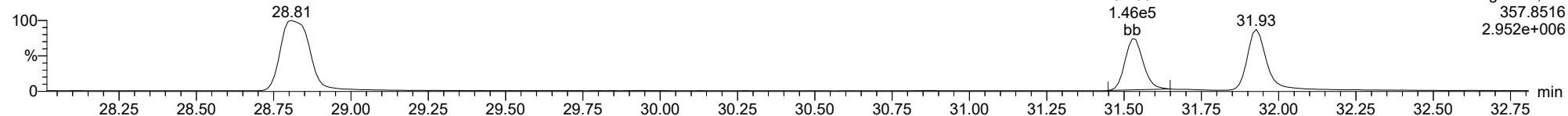
**12378-PeCDD**

23030310



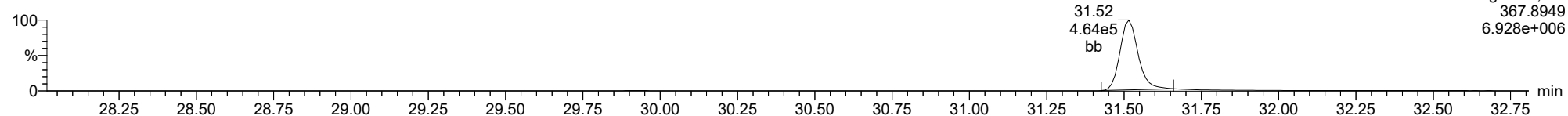
**12378-PeCDD**

23030310



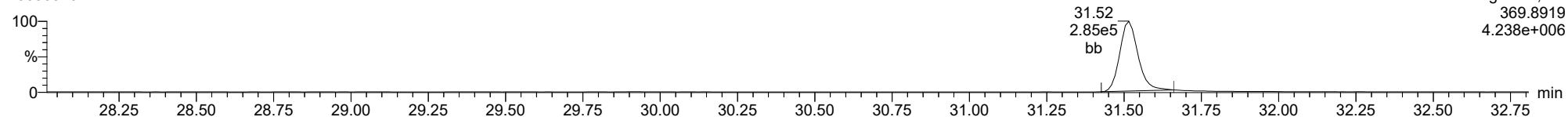
**13C-12378-PeCDD**

23030310



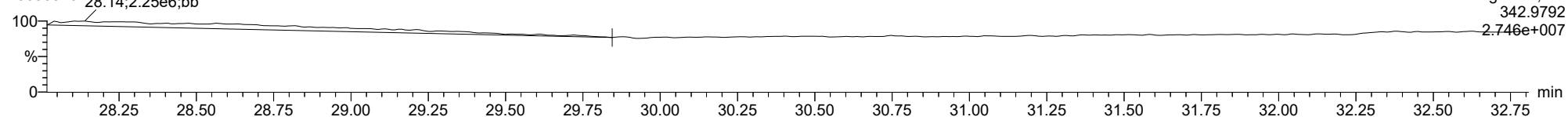
**13C-12378-PeCDD**

23030310



**FUNCTION2 PFK**

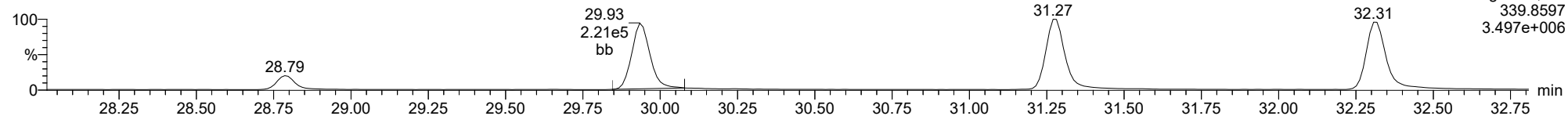
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

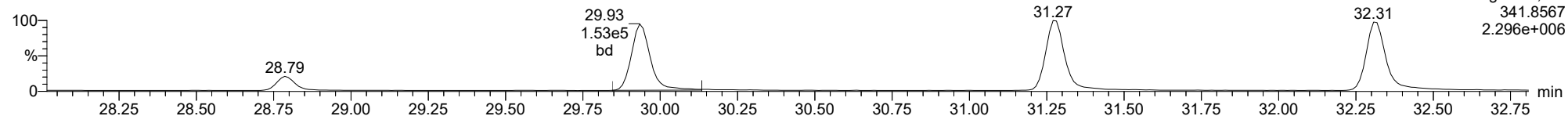
**12378-PeCDF**

23030310



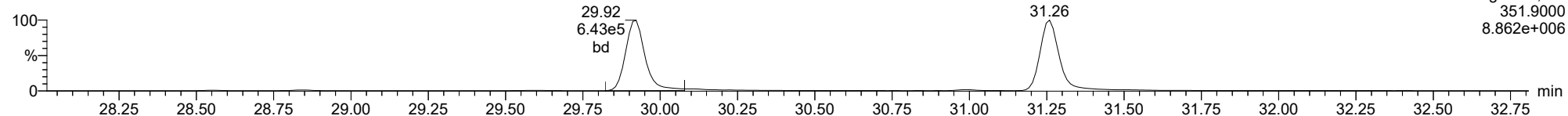
**12378-PeCDF**

23030310



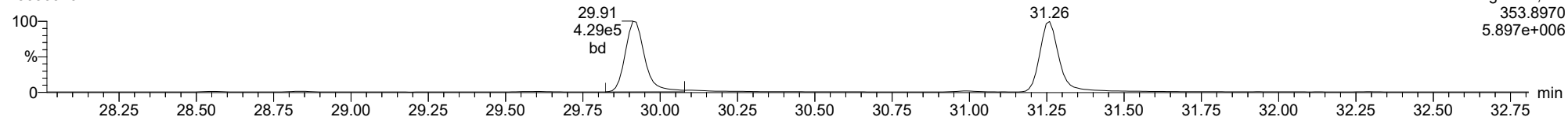
**13C-12378-PeCDF**

23030310



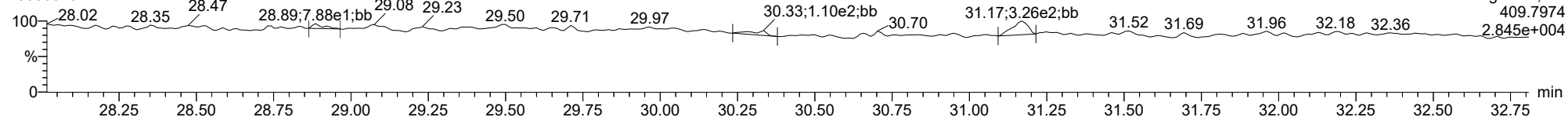
**13C-12378-PeCDF**

23030310



**FUNCTION2 HPCDPE**

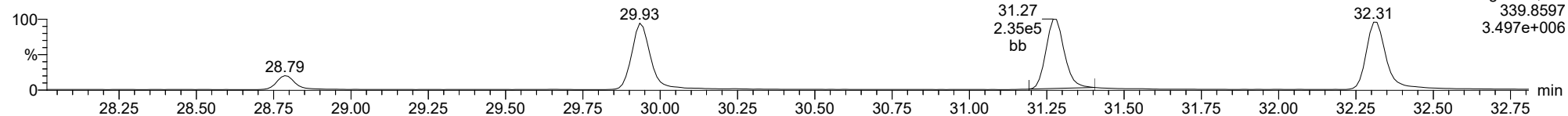
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

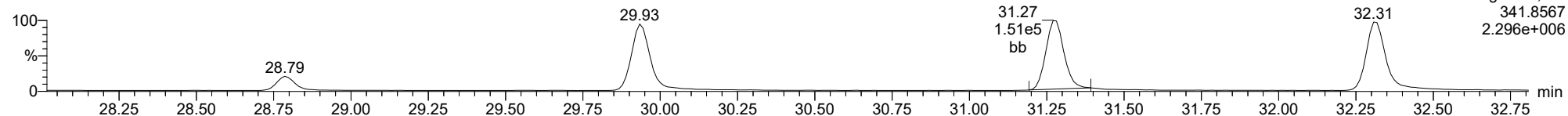
**23478-PeCDF**

23030310



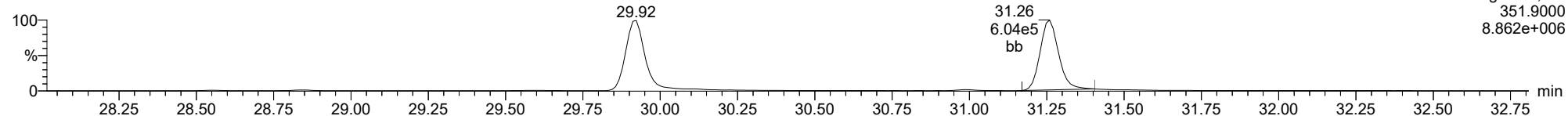
**23478-PeCDF**

23030310



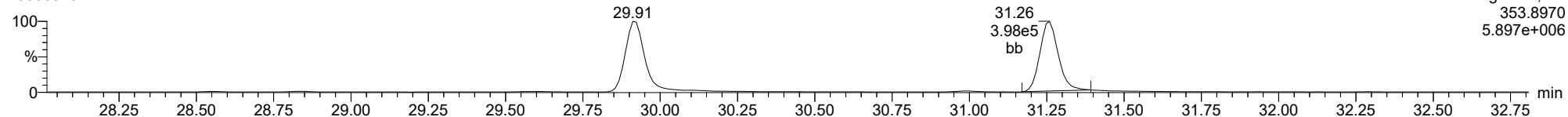
**13C-23478-PeCDF**

23030310



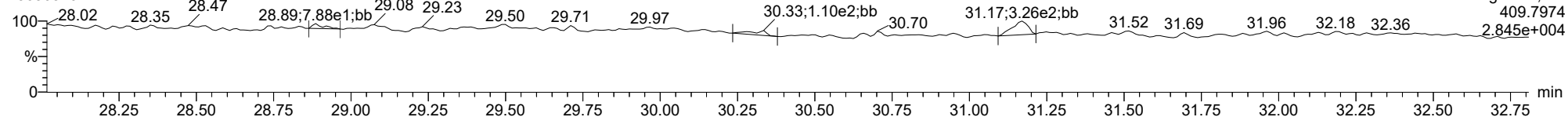
**13C-23478-PeCDF**

23030310



**FUNCTION2 HPCDPE**

23030310

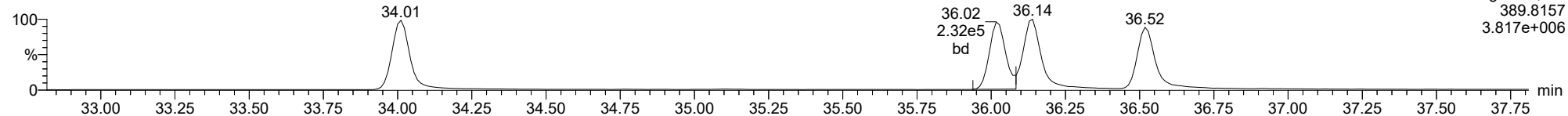




ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

**123478-HxCDD**

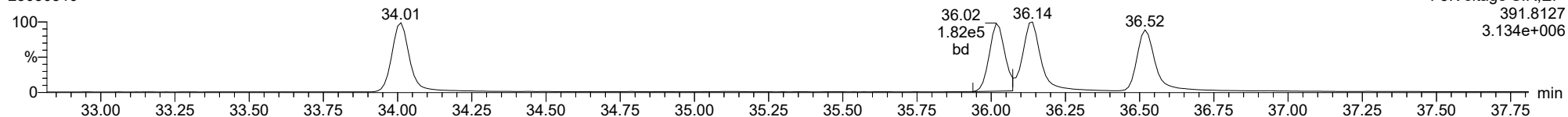
23030310



F3:Voltage SIR,El+  
389.8157  
3.817e+006

**123478-HxCDD**

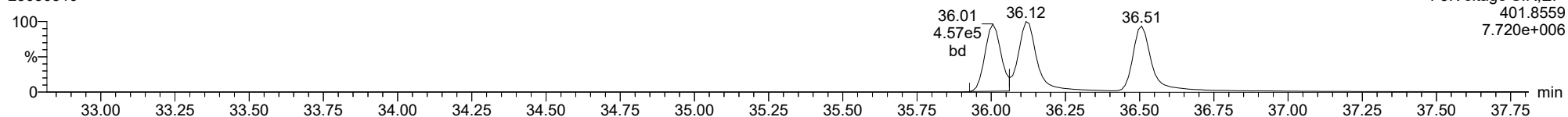
23030310



F3:Voltage SIR,El+  
391.8127  
3.134e+006

**13C-123478-HxCDD**

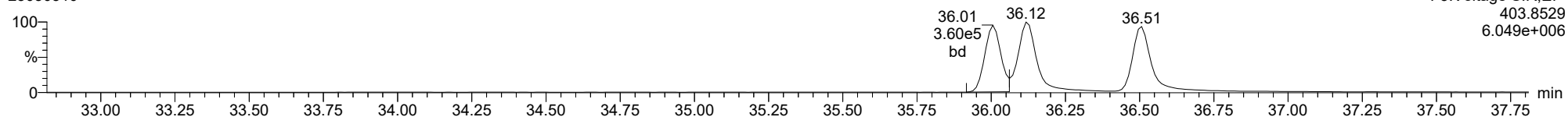
23030310



F3:Voltage SIR,El+  
401.8559  
7.720e+006

**13C-123478-HxCDD**

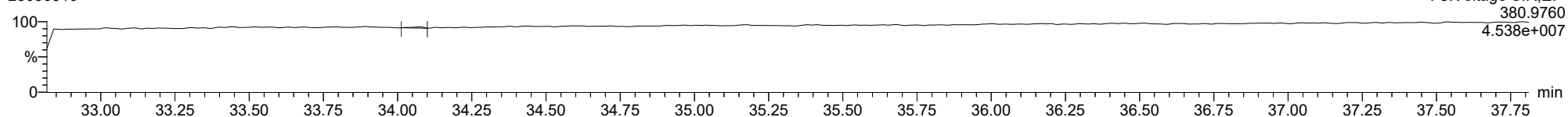
23030310



F3:Voltage SIR,El+  
403.8529  
6.049e+006

**FUNCTION3 PFK**

23030310

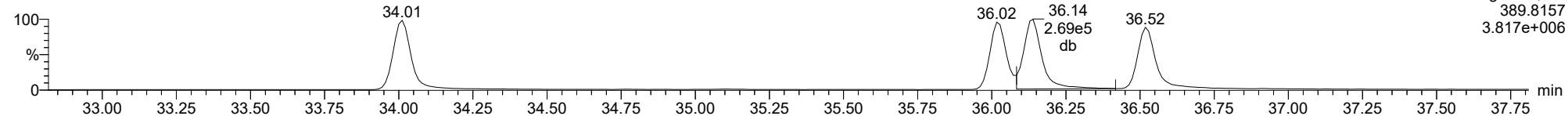


F3:Voltage SIR,El+  
380.9760  
4.538e+007

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

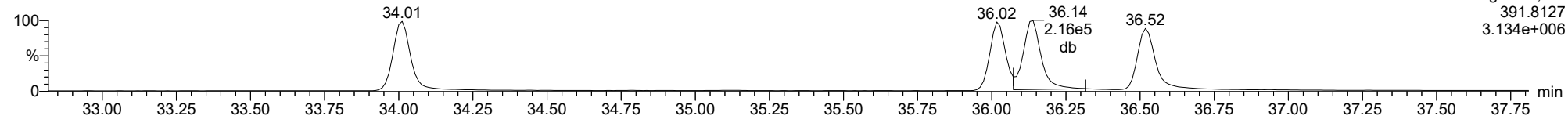
23030310



F3:Voltage SIR,EI+  
389.8157  
3.817e+006

**123678-HxCDD**

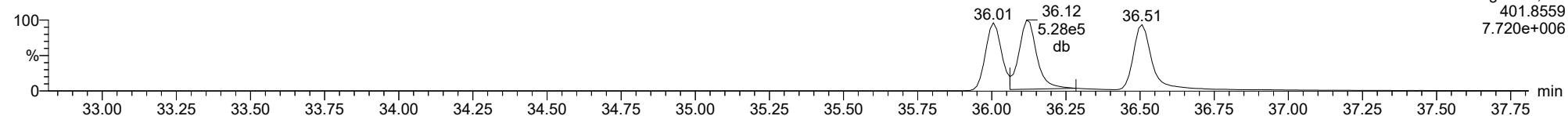
23030310



F3:Voltage SIR,EI+  
391.8127  
3.134e+006

**13C-123678-HxCDD**

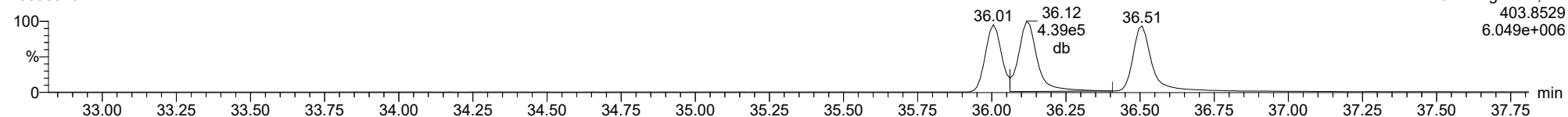
23030310



F3:Voltage SIR,EI+  
401.8559  
7.720e+006

**13C-123678-HxCDD**

23030310

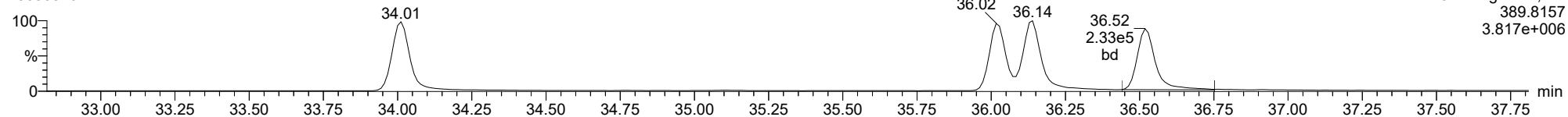


F3:Voltage SIR,EI+  
403.8529  
6.049e+006

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

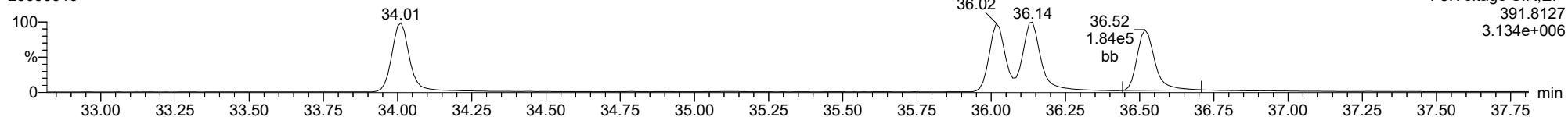
123789-HxCDD

23030310



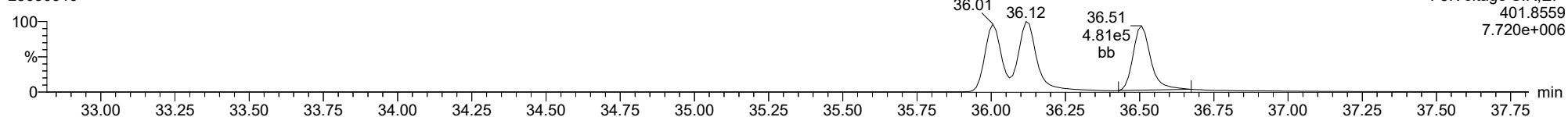
123789-HxCDD

23030310



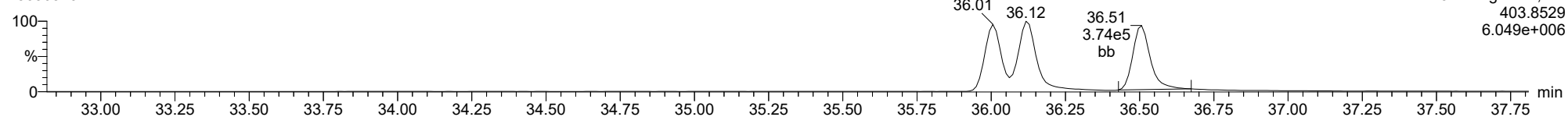
13C-123789-HxCDD

23030310



13C-123789-HxCDD

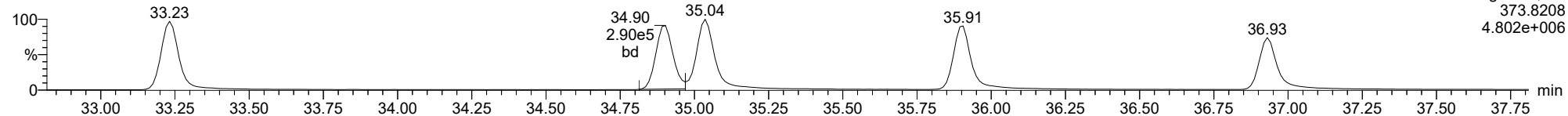
23030310



ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

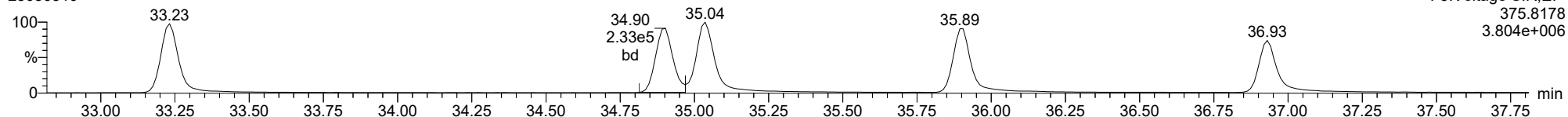
**123478-HxCDF**

23030310



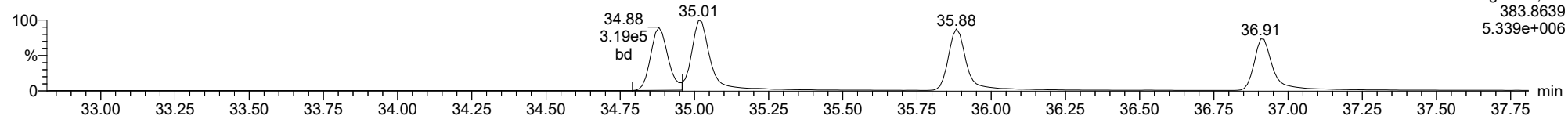
**123478-HxCDF**

23030310



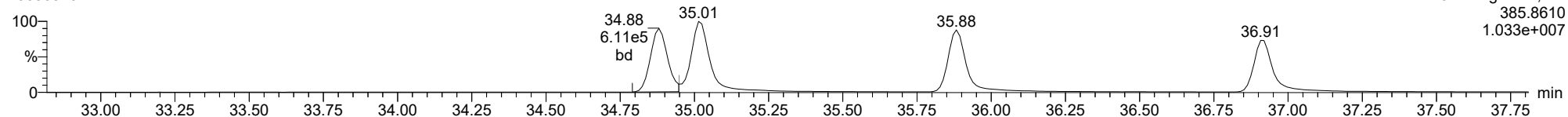
**13C-123478-HxCDF**

23030310



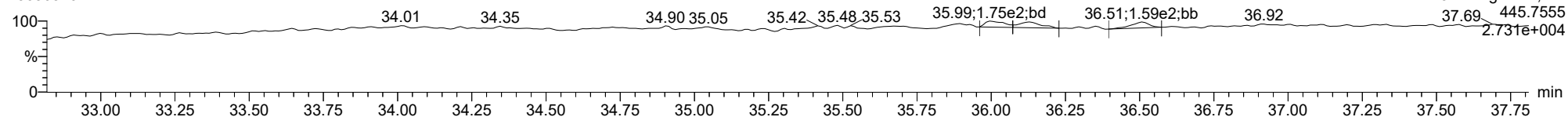
**13C-123478-HxCDF**

23030310



**FUNCTION3 OCDPE**

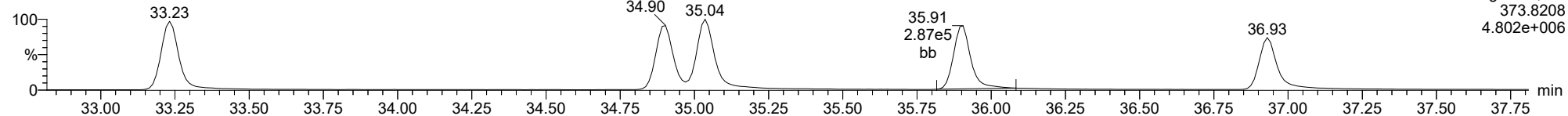
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

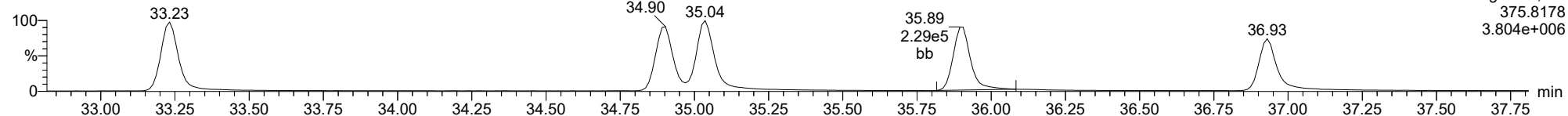
**234678-HxCDF**

23030310



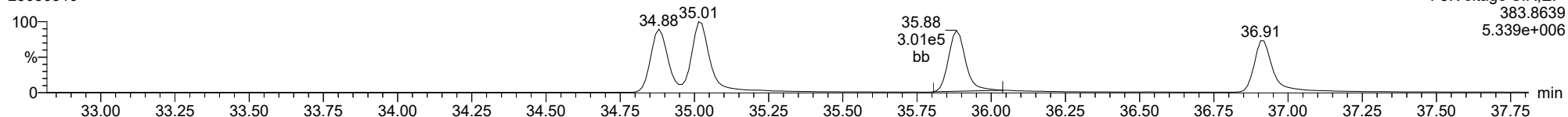
**234678-HxCDF**

23030310



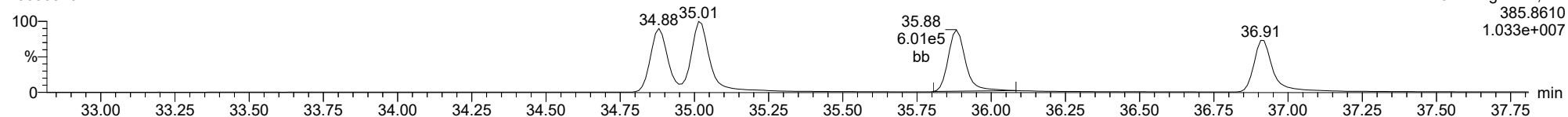
**13C-234678-HxCDF**

23030310



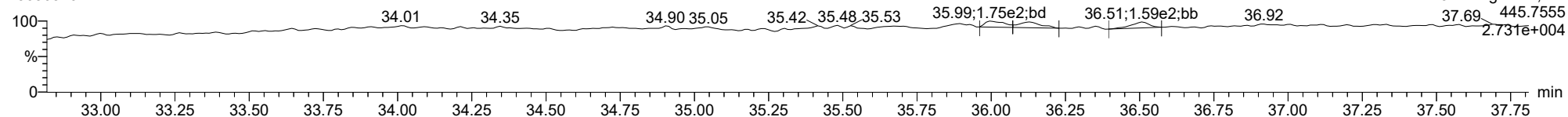
**13C-234678-HxCDF**

23030310



**FUNCTION3 OCDPE**

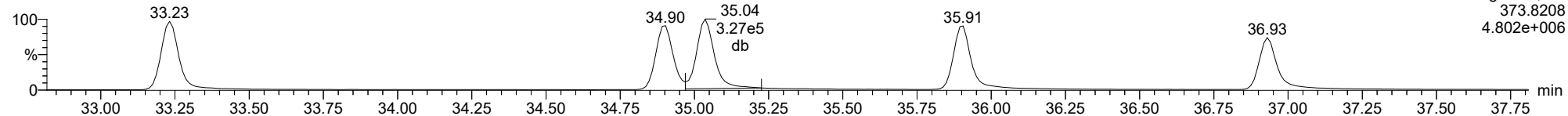
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

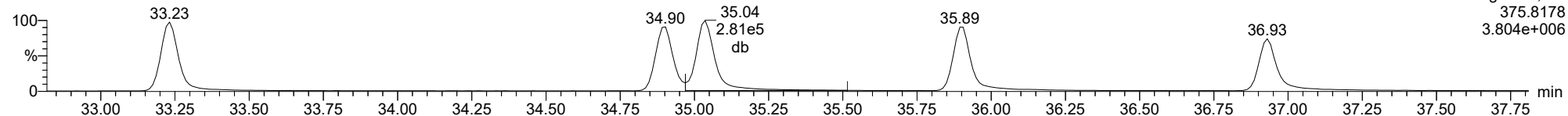
123678-HxCDF

23030310



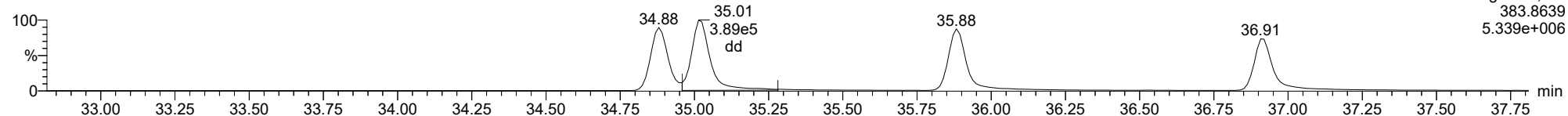
123678-HxCDF

23030310



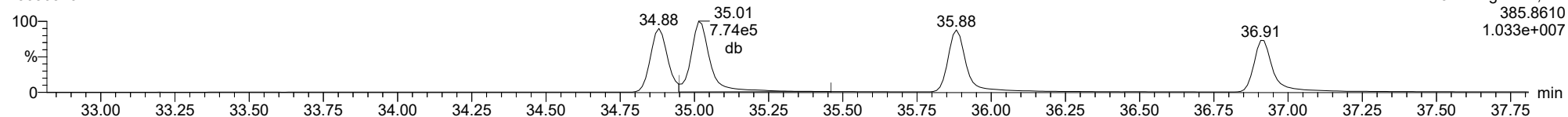
13C-123678-HxCDF

23030310



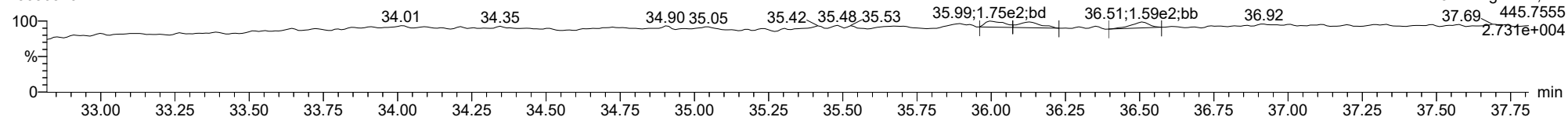
13C-123678-HxCDF

23030310



FUNCTION3 OCDPE

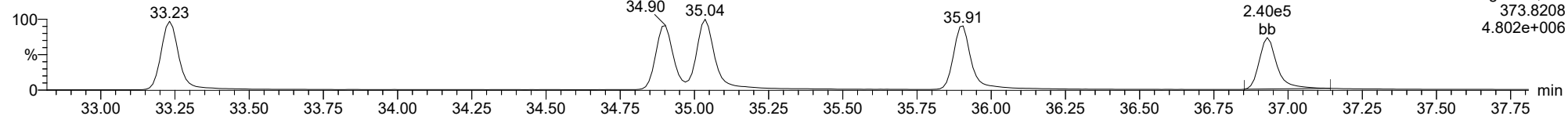
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

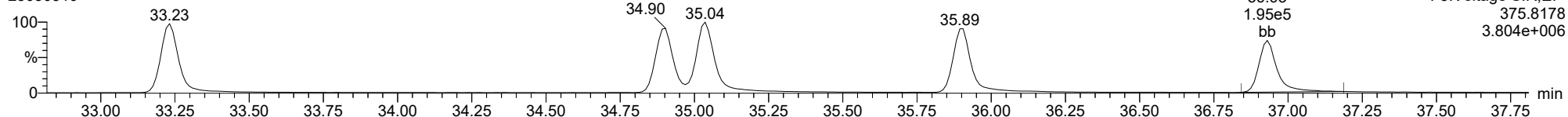
**123789-HxCDF**

23030310



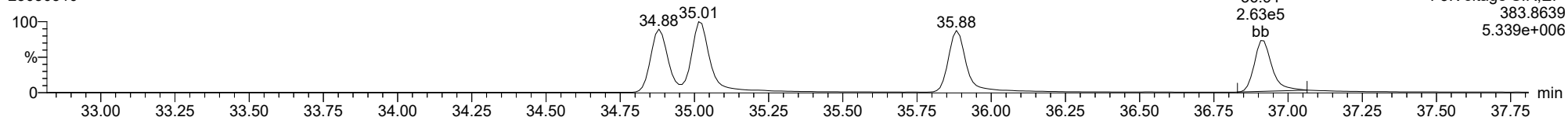
**123789-HxCDF**

23030310



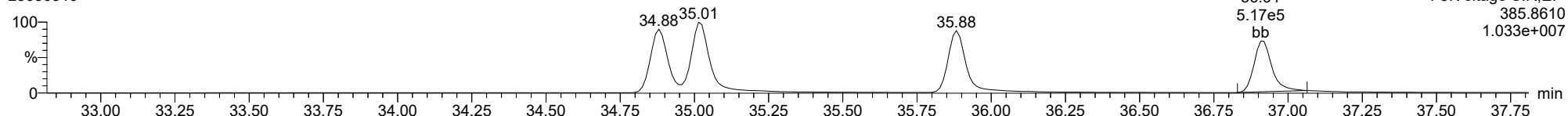
**13C-123789-HxCDF**

23030310



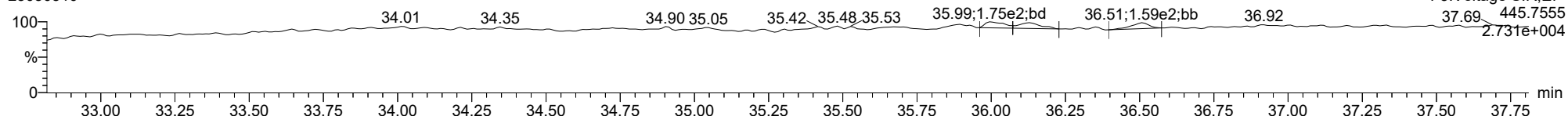
**13C-123789-HxCDF**

23030310



**FUNCTION3 OCDPE**

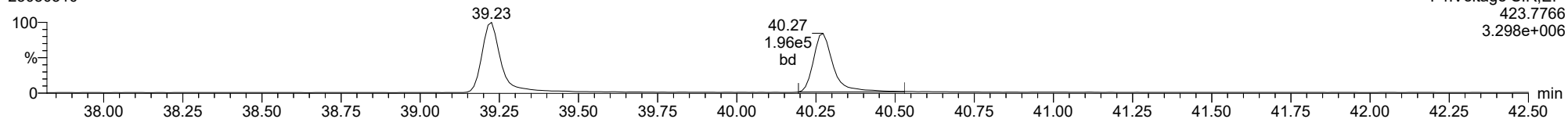
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

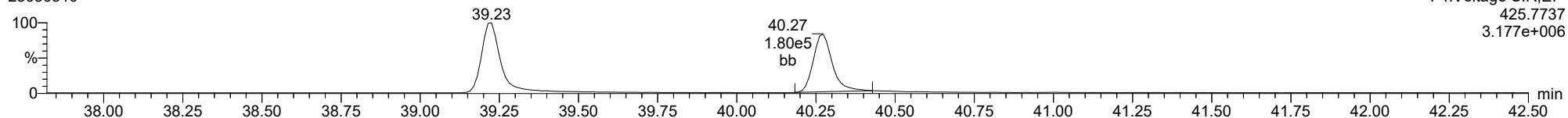
23030310



F4:Voltage SIR,EI+  
423.7766  
3.298e+006

**1234678-HpCDD**

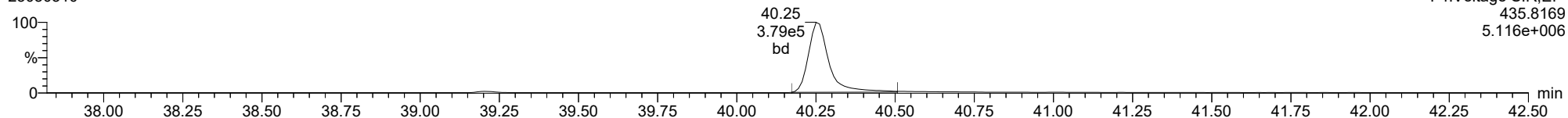
23030310



F4:Voltage SIR,EI+  
425.7737  
3.177e+006

**13C-1234678-HpCDD**

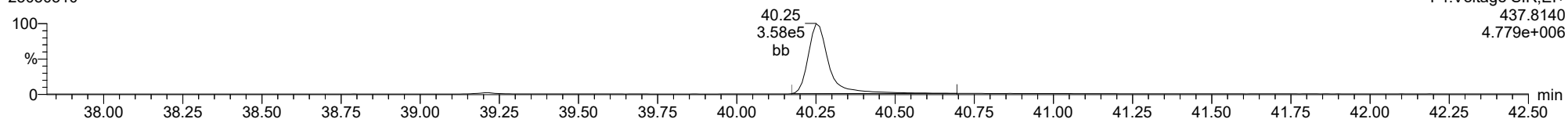
23030310



F4:Voltage SIR,EI+  
435.8169  
5.116e+006

**13C-1234678-HpCDD**

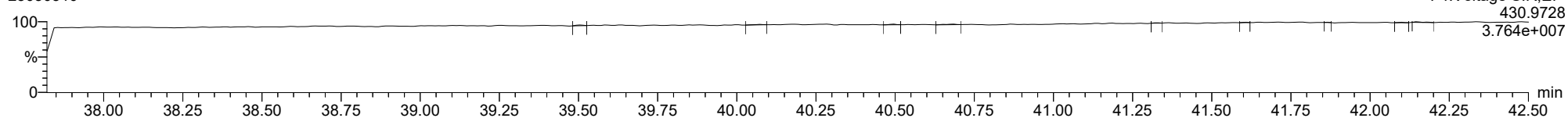
23030310



F4:Voltage SIR,EI+  
437.8140  
4.779e+006

**FUNCTION4 PFK**

23030310



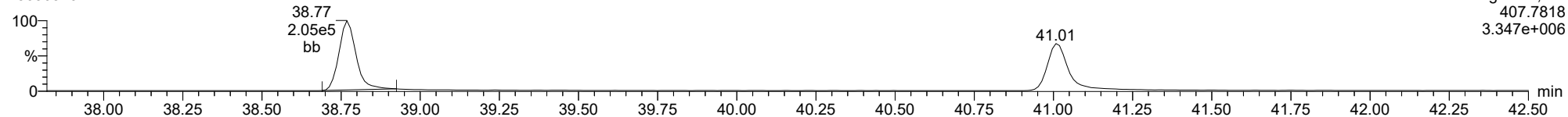
F4:Voltage SIR,EI+  
430.9728  
3.764e+007



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1234678-HpCDF

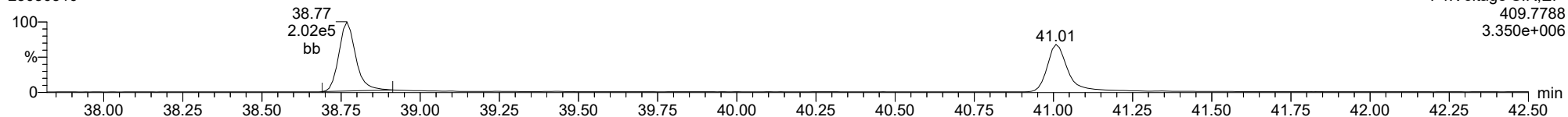
23030310



F4:Voltage SIR,EI+  
407.7818  
3.347e+006

1234678-HpCDF

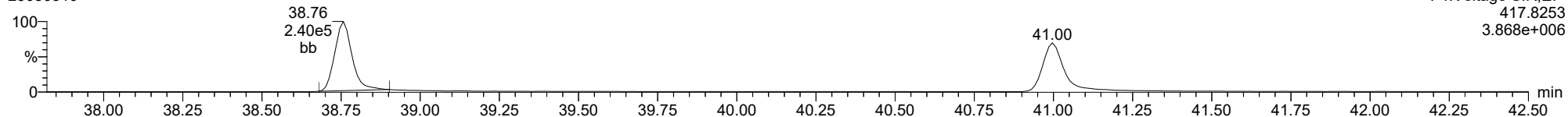
23030310



F4:Voltage SIR,EI+  
409.7788  
3.350e+006

13C-1234678-HpCDF

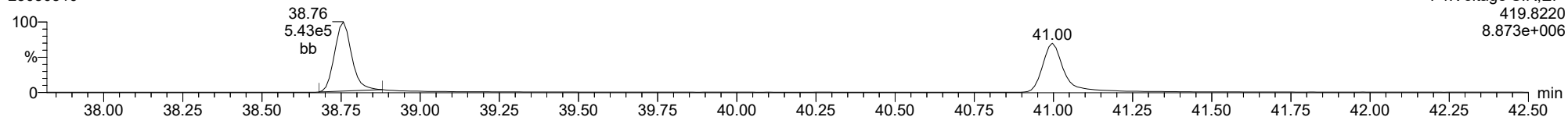
23030310



F4:Voltage SIR,EI+  
417.8253  
3.868e+006

13C-1234678-HpCDF

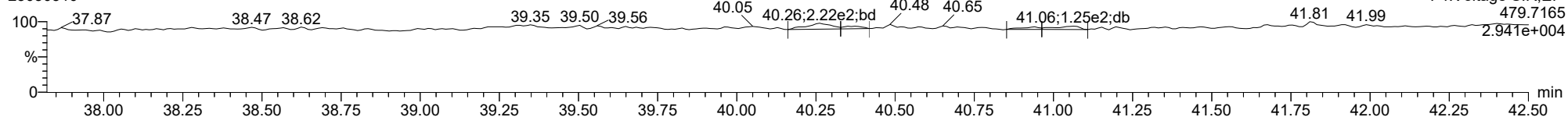
23030310



F4:Voltage SIR,EI+  
419.8220  
8.873e+006

FUNCTION4 NCDPE

23030310

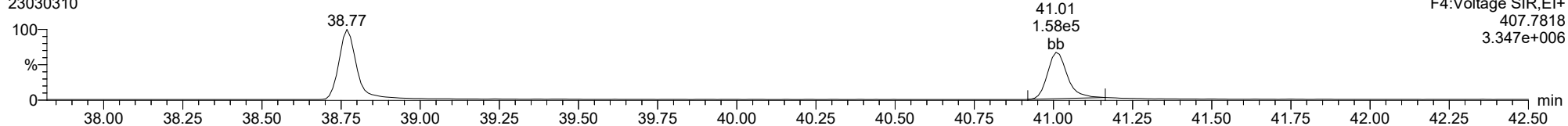


F4:Voltage SIR,EI+  
479.7165  
2.941e+004

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1234789-HpCDF

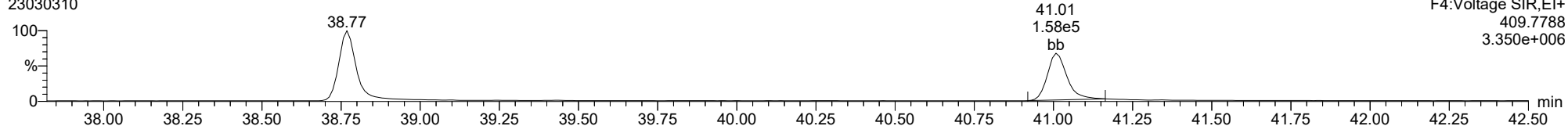
23030310



F4:Voltage SIR,EI+  
407.7818  
3.347e+006

1234789-HpCDF

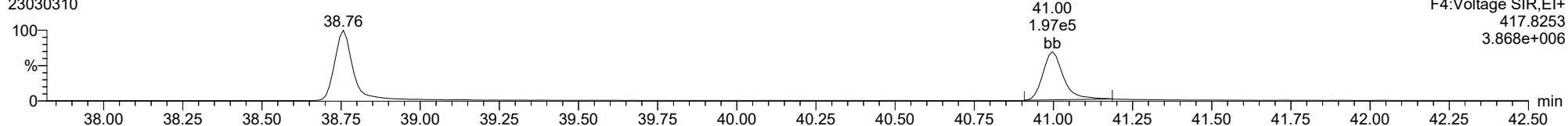
23030310



F4:Voltage SIR,EI+  
409.7788  
3.350e+006

13C-1234789-HpCDF

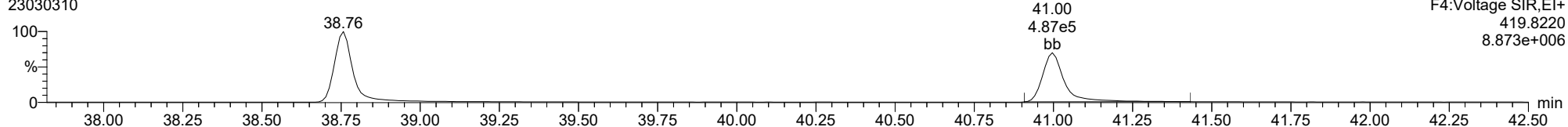
23030310



F4:Voltage SIR,EI+  
417.8253  
3.868e+006

13C-1234789-HpCDF

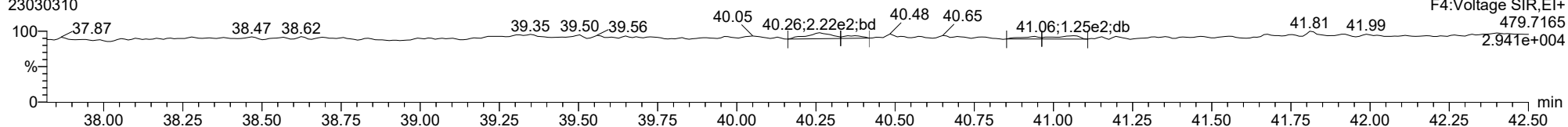
23030310



F4:Voltage SIR,EI+  
419.8220  
8.873e+006

FUNCTION4 NCDPE

23030310

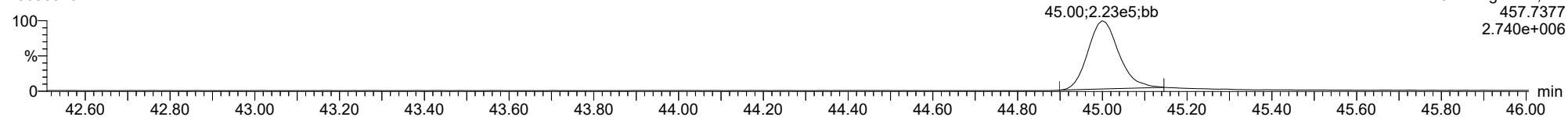


F4:Voltage SIR,EI+  
479.7165  
2.941e+004

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

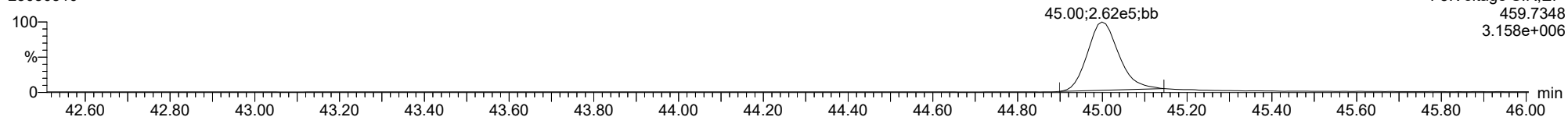
**OCDD**

23030310



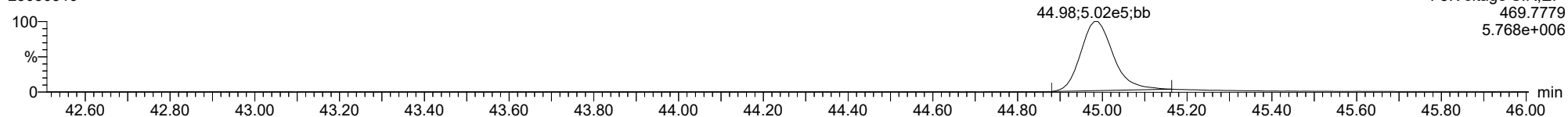
**OCDD**

23030310



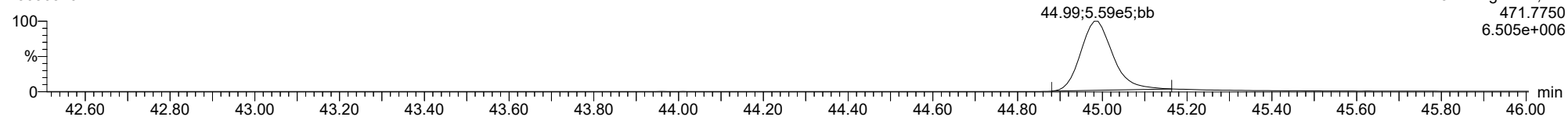
**13C-OCDD**

23030310



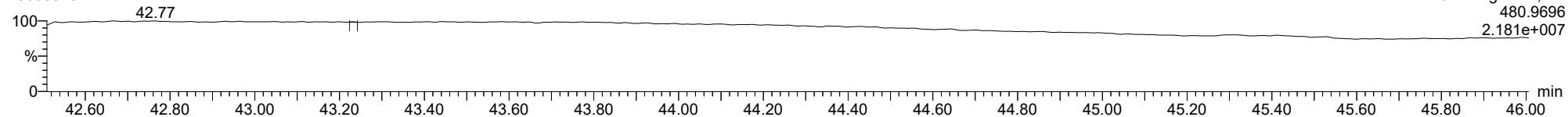
**13C-OCDD**

23030310



**FUNCTION5 PFK**

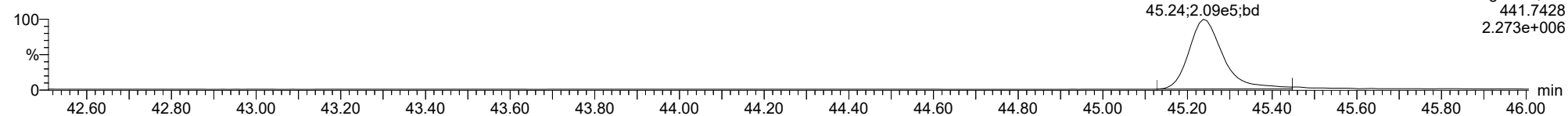
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

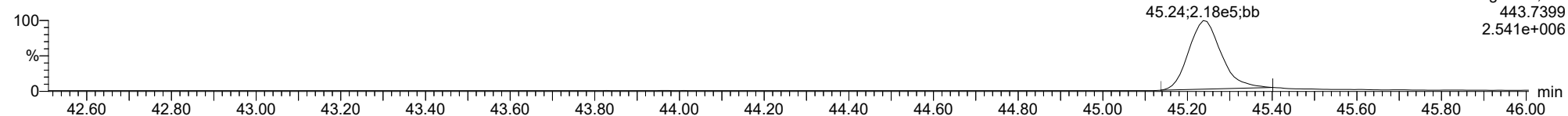
**OCDF**

23030310



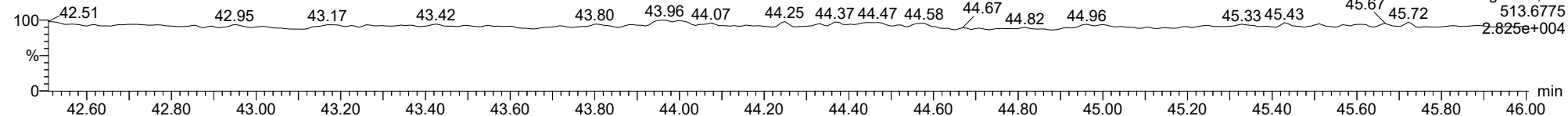
**OCDF**

23030310



**FUNCTION5 DCDPE**

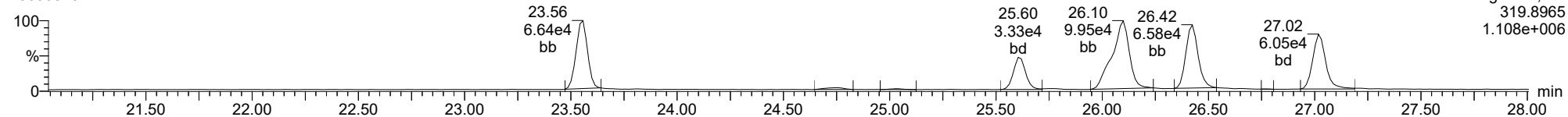
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

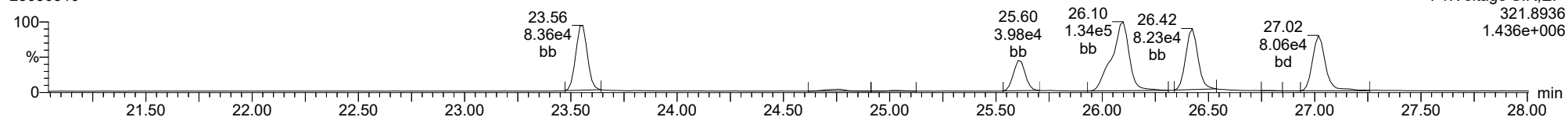
**Total-tetradoxins**

23030310



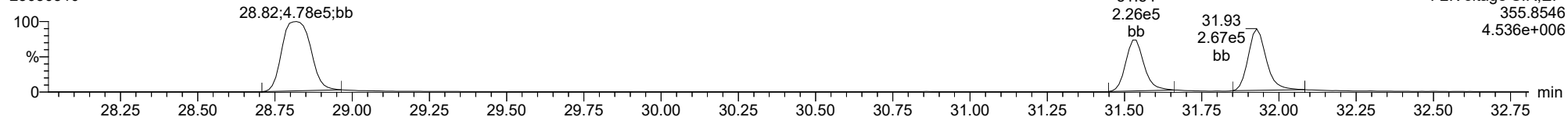
**Total-tetradoxins**

23030310



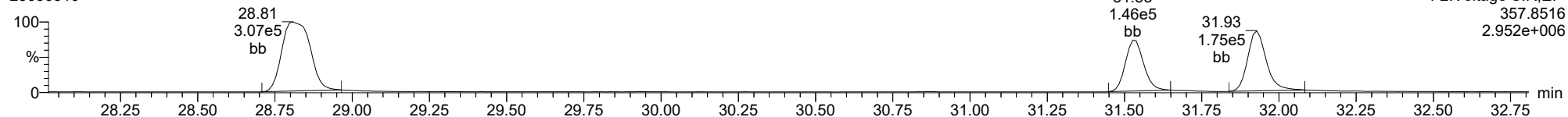
**Total-pentadoxins**

23030310



**Total-pentadoxins**

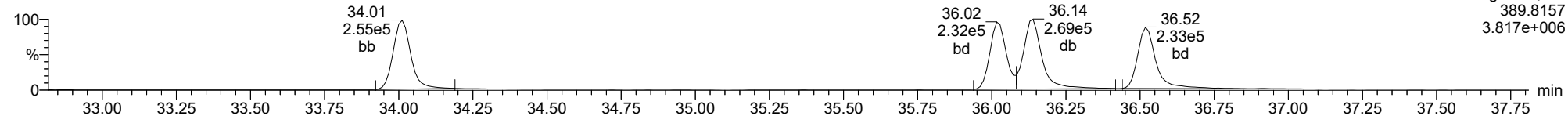
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

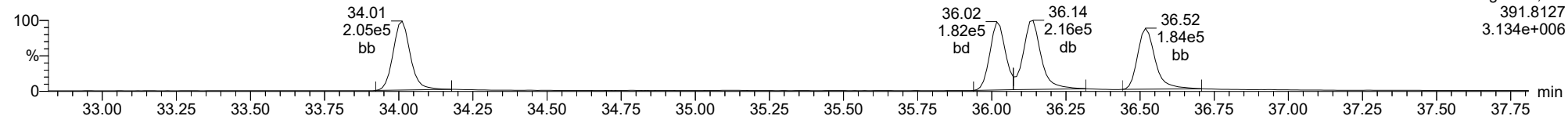
**Total-hexadioxins**

23030310



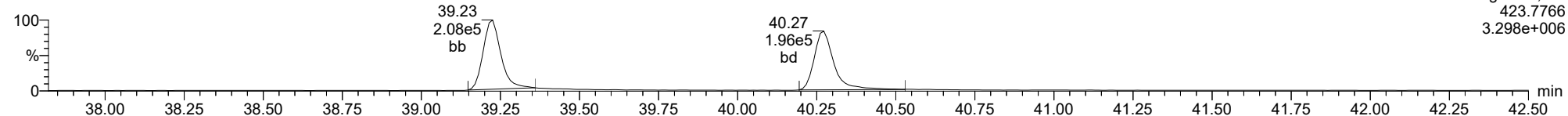
**Total-hexadioxins**

23030310



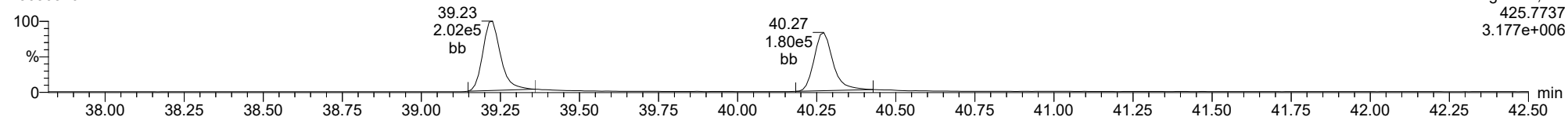
**Total-heptadioxins**

23030310



**Total-heptadioxins**

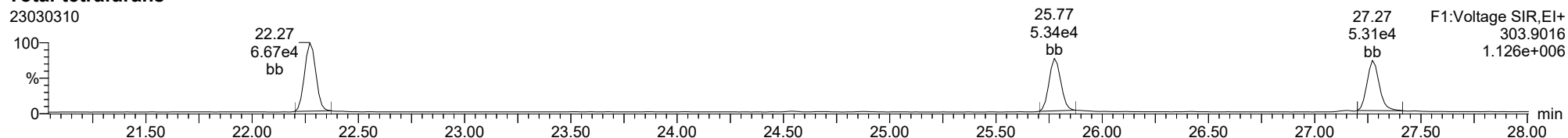
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

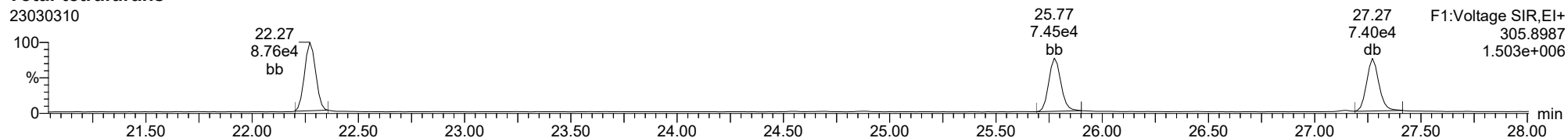
**Total-tetrafurans**

23030310



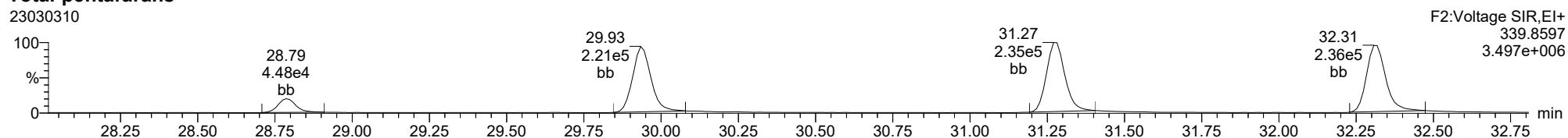
**Total-tetrafurans**

23030310



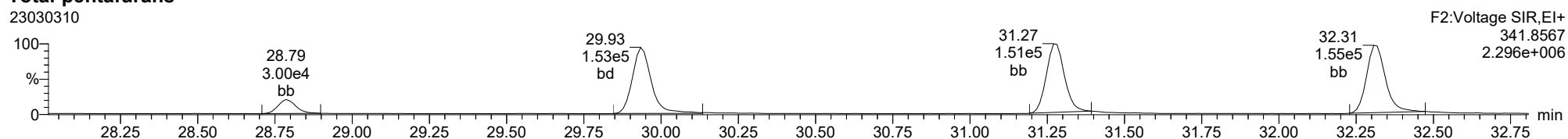
**Total-pentafurans**

23030310



**Total-pentafurans**

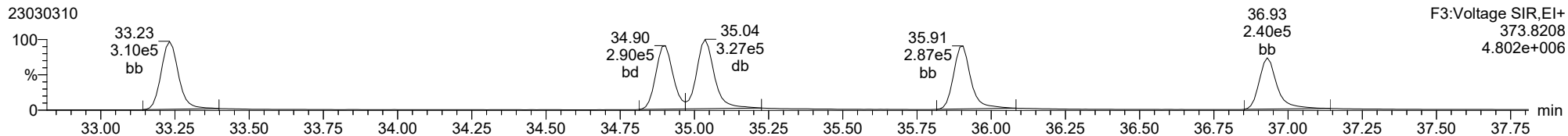
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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

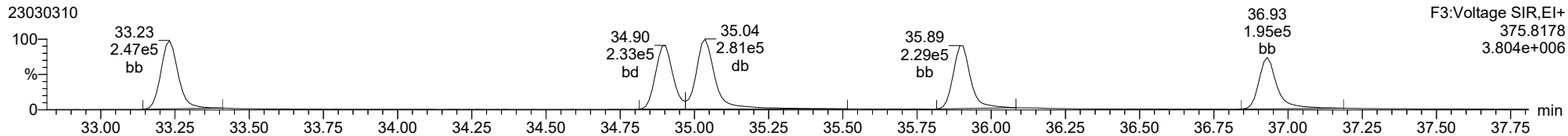
**Total-hexafurans**

23030310



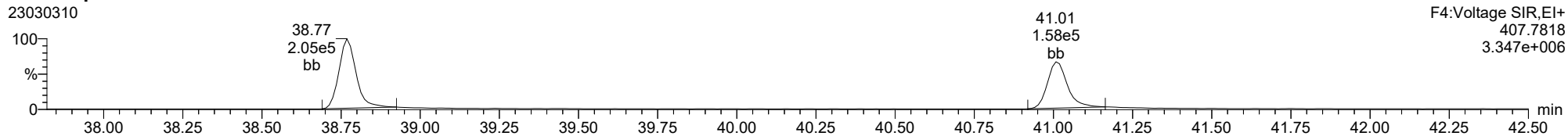
**Total-hexafurans**

23030310



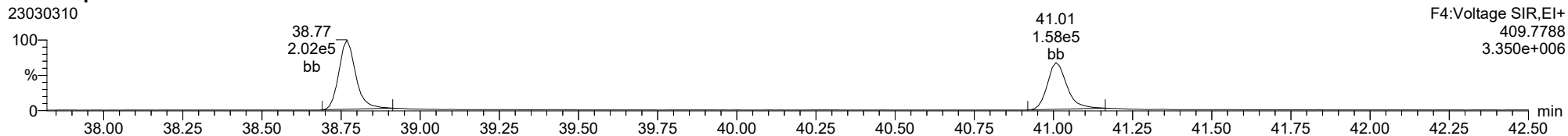
**Total-heptafurans**

23030310



**Total-heptafurans**

23030310





Dataset: T:\Autospec\Processed Data Batch\230303\IHCIV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:33 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

Calibration: T:\Autospec\Curves\230303\ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	4.131e4	5.488e4	0.702	0.753	0.770	1493	2220	6.02e5	8.13e5	403.0	366.2	NO	bb	bb	10.126
12378-PeCDF	29.934	1.000	2.094e5	1.387e5	0.679	1.510	1.550	3237	2768	3.10e6	2.08e6	956.2	750.8	NO	bb	bb	47.721
23478-PeCDF	31.282	1.001	2.189e5	1.466e5	0.786	1.493	1.550	3237	2768	3.25e6	2.13e6	1004.6	769.0	NO	bb	bb	48.580
123478-HxCDF	34.903	1.001	2.702e5	2.168e5	1.166	1.247	1.240	2948	2161	4.14e6	3.34e6	1404.3	1544.7	NO	bd	bd	47.304
234678-HxCDF	35.905	1.001	2.808e5	2.345e5	1.140	1.198	1.240	2948	2161	4.05e6	3.23e6	1375.6	1495.3	NO	bb	bd	52.050
123678-HxCDF	35.036	1.000	3.125e5	2.496e5	1.091	1.252	1.240	2948	2161	4.44e6	3.55e6	1506.3	1641.4	NO	db	db	51.387
123789-HxCDF	36.931	1.000	2.304e5	1.857e5	1.137	1.240	1.240	2948	2161	3.37e6	2.68e6	1143.7	1240.6	NO	bb	bb	48.904
1234678-HpCDF	38.769	1.000	1.725e5	1.737e5	1.003	0.993	1.050	2044	2260	2.71e6	2.74e6	1326.3	1210.9	NO	bb	bb	47.690
1234789-HpCDF	41.008	1.000	1.395e5	1.236e5	0.953	1.128	1.050	2044	2260	1.71e6	1.64e6	836.3	725.6	NO	bd	bb	53.601
OCDF	45.237	1.005	1.863e5	1.970e5	0.778	0.946	0.890	1162	1746	2.03e6	2.27e6	1745.6	1302.8	NO	bd	bb	95.021
2378-TCDD	26.424	1.001	4.111e4	5.488e4	1.149	0.749	0.770	1210	797	6.31e5	8.06e5	521.2	1010.5	NO	bb	bb	9.017
12378-PeCDD	31.538	1.001	2.212e5	1.442e5	1.022	1.534	1.550	2794	1649	3.14e6	2.05e6	1124.1	1244.9	NO	bb	bb	50.849
123478-HxCDD	36.017	1.000	2.147e5	1.744e5	0.996	1.231	1.240	3133	1871	3.31e6	2.68e6	1055.8	1434.4	NO	bd	bd	50.696
123678-HxCDD	36.139	1.001	2.532e5	2.091e5	1.001	1.211	1.240	3133	1871	3.49e6	2.85e6	1112.6	1520.4	NO	db	db	51.126
123789-HxCDD	36.518	1.011	2.114e5	1.814e5	0.907	1.166	1.240	3133	1871	3.08e6	2.54e6	982.1	1355.5	NO	bb	bd	51.723
1234678-HpCDD	40.273	1.000	1.700e5	1.663e5	1.039	1.022	1.050	1948	2105	2.22e6	2.15e6	1138.4	1022.1	NO	bd	bd	52.721
OCDD	45.000	1.000	2.152e5	2.483e5	0.920	0.867	0.890	885	1554	2.46e6	2.84e6	2785.0	1828.9	NO	bb	bb	97.150
13C-2378-TCDF	25.760	1.007	5.853e5	7.688e5	1.620	0.761	0.770	1921	2018	8.54e6	1.13e7	4445.5	5599.2	NO	bb	bb	89.420
13C-12378-PeCDF	29.923	1.169	6.466e5	4.272e5	1.240	1.513	1.550	2442	3390	8.85e6	5.90e6	3622.7	1739.1	NO	bb	bd	92.612
13C-23478-PeCDF	31.259	1.222	5.702e5	3.869e5	1.118	1.474	1.550	2442	3390	8.42e6	5.62e6	3447.3	1659.1	NO	bb	bb	91.616
13C-123478-HxCDF	34.881	0.955	2.992e5	5.837e5	1.168	0.513	0.510	2430	2952	4.46e6	8.67e6	1835.4	2935.2	NO	bd	bd	95.179
13C-123678-HxCDF	35.025	0.959	3.347e5	6.682e5	1.386	0.501	0.510	2430	2952	4.76e6	9.19e6	1958.9	3111.9	NO	db	db	91.102
13C-234678-HxCDF	35.883	0.983	2.956e5	5.730e5	1.129	0.516	0.510	2430	2952	4.27e6	8.35e6	1756.5	2829.2	NO	bb	bb	96.885
13C-123789-HxCDF	36.919	1.011	2.519e5	4.965e5	0.932	0.507	0.510	2430	2952	3.69e6	7.15e6	1518.9	2421.6	NO	bb	bb	101.167
13C-1234678-HpCDF	38.758	1.062	2.307e5	4.931e5	0.895	0.468	0.440	2487	3339	3.35e6	7.56e6	1347.2	2263.7	NO	bd	bb	101.839
13C-1234789-HpCDF	40.997	1.123	1.602e5	3.548e5	0.770	0.452	0.440	2487	3339	2.05e6	4.72e6	823.7	1413.6	NO	bb	bb	84.268
13C-1234-TCDD	25.591	0.000	4.152e5	5.195e5	1.000	0.799	0.770	2224	1360	6.53e6	8.14e6	2938.6	5984.1	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	4.083e5	5.184e5	1.152	0.788	0.770	2224	1360	5.76e6	7.36e6	2588.5	5411.0	NO	bb	bb	86.032
13C-12378-PeCDD	31.516	1.232	4.323e5	2.709e5	0.829	1.595	1.550	1217	913	6.32e6	3.99e6	5187.9	4362.9	NO	bb	bb	90.774
13C-123478-HxCDD	36.006	0.986	4.338e5	3.372e5	0.995	1.286	1.240	3851	1371	6.85e6	5.33e6	1778.6	3884.7	NO	bd	bd	97.589
13C-123678-HxCDD	36.117	0.989	5.114e5	3.919e5	1.157	1.305	1.240	3851	1371	7.20e6	5.65e6	1870.4	4120.3	NO	db	db	98.370
13C-1234678-HpCDD	40.262	1.103	3.166e5	2.972e5	0.840	1.065	1.050	1699	1520	4.20e6	3.95e6	2473.2	2598.3	NO	bb	bb	92.030
13C-OCDD	44.990	1.232	5.160e5	5.214e5	0.767	0.990	0.890	2001	1870	5.29e6	5.84e6	2645.0	3123.1	NO	bd	bb	170.247
13C-123789-HxCDD	36.507	0.000	4.452e5	3.487e5	1.000	1.277	1.240	3851	1371	6.49e6	5.07e6	1686.5	3694.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	9.071e4		1.288			1721		1.34e6		776.4			bb		7.536

Dataset: T:\Autospec\Processed Data Batch\230303\HICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:33 Pacific Standard Time

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.271	0.865	5.764e4	7.805e4	0.802	0.738	0.770	1493	2220	9.22e5	1.25e6	617.6	564.2	NO	bb	bb	12.503
1289-TCDF	27.272	1.059	3.446e4	4.665e4	0.678	0.739	0.770	1493	2220	5.07e5	6.62e5	339.5	298.3	NO	bb	db	8.835
13468-PECDF	27.130	0.907	3.611e5	2.330e5	1.246	1.550	1.550	743	1090	5.44e6	3.55e6	7323.2	3255.0	NO	bb	bb	44.390
12389-PECDF	32.318	1.080	2.101e5	1.516e5	0.496	1.387	1.550	3237	2768	2.95e6	1.97e6	910.6	713.0	NO	bb	bd	67.866
123468-HXCDF	33.231	0.953	2.880e5	2.384e5	1.169	1.208	1.240	2948	2161	4.12e6	3.25e6	1397.4	1503.0	NO	bb	bb	51.002
1368-TCDD	23.557	0.892	5.668e4	7.180e4	1.015	0.789	0.770	1210	797	9.15e5	1.16e6	755.8	1460.4	NO	bb	bb	13.654
1289-TCDD	27.017	1.023	3.648e4	4.783e4	0.909	0.763	0.770	1210	797	5.40e5	6.90e5	445.8	865.4	NO	bb	bb	10.012
12479-PECDD	28.819	0.914	3.593e5	2.367e5	2.301	1.518	1.550	2794	1649	3.42e6	2.21e6	1224.5	1341.7	NO	bb	bb	36.832
12389-PECDD	31.928	1.013	2.423e5	1.700e5	1.184	1.426	1.550	2794	1649	3.48e6	2.31e6	1246.0	1399.4	NO	bb	bd	49.543
124679-HXCDD	34.011	0.945	2.330e5	1.909e5	1.115	1.220	1.240	3133	1871	3.38e6	2.76e6	1078.1	1473.6	NO	bb	bb	49.292
1234679-HPCDD	39.225	0.974	2.020e5	1.832e5	1.137	1.103	1.050	1948	2105	2.83e6	2.72e6	1451.0	1293.3	NO	bd	bb	55.196
Total-tetrafurans			1.346e5		0.727			1493		2.05e6							31.724
Total-penta1			3.611e5					743		5.44e6							44.390
Total-pentafurans			6.730e5		0.654			3237		9.80e6							172.856
Total-hexafurans			1.382e6		1.141			2948		2.01e7							250.647
Total-heptafurans			3.120e5		0.978			2044		4.42e6							101.291
Total-Furans			3.049e6		0.922			1493		4.39e7							695.930
Total-tetradoxins			2.249e5		1.024			1210		3.13e6							54.516
Total-pentadoxins			8.229e5		1.502			2794		1.00e7							137.223
Total-hexadoxins			9.123e5		1.005			3133		1.32e7							202.837
Total-heptadoxins			3.720e5		1.088			1948		5.04e6							107.918
Total-Dioxins			2.547e6		1.130			1210		3.39e7							599.643
Total-TEQ			5.596e6					1210		7.78e7							1295.573
FUNCTION1 PFK			7.521e6					557945		8.00e6							
FUNCTION2 PFK			4.110e5					226700		1.13e7							0.000
FUNCTION3 PFK			8.443e6					414812		2.82e6							0.000
FUNCTION4 PFK			2.598e7					304689		2.22e7							
FUNCTION5 PFK			7.163e4					189891		2.74e6							
FUNCTION1 HXCD...			3.794e2					593		5.61e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.042e2					818		1.73e4							0.000
FUNCTION3 OCDPE			9.563e1					429		1.87e3							0.000
FUNCTION4 NCDPE			0.000e0					545		0.00e0							
FUNCTION5 DCDPE			0.000e0					542		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303IHCIV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:33 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50

Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

**TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
2	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
3	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
4	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
2	123468-HxCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
3	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
4	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
5	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
2	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2303031HICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:33 Pacific Standard Time

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503
6	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
7	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
8	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
9	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688
10	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
11	123468-HxCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
12	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
13	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
14	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387
15	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
16	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690
17	OCDF	45.24	1.863e5	1.970e5	0.778	0.95	0.89	1745.6	YES	NO	bd	bb	95.021
18	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
2	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
3	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
4	Total-tetradoxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
5	Total-tetradoxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
2	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
3	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832

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### HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
2	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
3	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
4	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696

### HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
2	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196

### Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
2	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
3	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
4	Total-tetradoxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
5	Total-tetradoxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591
6	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
7	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
8	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832
9	124679-HxCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
10	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
11	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
12	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696
13	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
14	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196
15	OCDD	45.00	2.152e5	2.483e5	0.920	0.87	0.89	2785.0	YES	NO	bb	bb	97.150

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503
6	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
7	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
8	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
9	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688
10	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
11	123468-HxCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
12	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
13	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
14	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387
15	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
16	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690
17	OCDF	45.24	1.863e5	1.970e5	0.778	0.95	0.89	1745.6	YES	NO	bd	bb	95.021
18	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390
19	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
20	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
21	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
22	Total-tetradiioxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
23	Total-tetradiioxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591
24	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
25	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
26	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832
27	124679-HXCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
28	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
29	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
30	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696
31	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
32	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196
33	OCDD	45.00	2.152e5	2.483e5	0.920	0.87	0.89	2785.0	YES	NO	bb	bb	97.150

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.45	3.397e6					9.1	YES		db		
2	FUNCTION1 PFK	22.00	4.124e6					5.2	YES		bd		

**Quantify Totals Report MassLynx V4.1 SCN909**

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**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.25	2.674e4					2.5	NO		db		0.000
2	FUNCTION2 PFK	28.20	5.558e3					1.1	NO		dd		0.000
3	FUNCTION2 PFK	28.15	1.333e4					1.7	NO		bd		0.000
4	FUNCTION2 PFK	28.11	4.408e3					0.8	NO		bb		0.000
5	FUNCTION2 PFK	30.52	5.287e3					0.9	NO		bd		0.000
6	FUNCTION2 PFK	30.38	1.568e4					1.4	NO		bb		0.000
7	FUNCTION2 PFK	30.23	2.380e4					1.5	NO		db		0.000
8	FUNCTION2 PFK	30.10	2.694e4					1.7	NO		bd		0.000
9	FUNCTION2 PFK	29.99	2.076e3					0.5	NO		bb		0.000
10	FUNCTION2 PFK	29.89	7.421e3					1.2	NO		bb		0.000
11	FUNCTION2 PFK	29.80	6.022e3					0.5	NO		bb		0.000
12	FUNCTION2 PFK	29.62	1.101e4					1.2	NO		bb		0.000
13	FUNCTION2 PFK	29.52	2.200e4					2.0	NO		bb		0.000
14	FUNCTION2 PFK	29.42	7.036e3					1.0	NO		bb		0.000
15	FUNCTION2 PFK	29.29	2.309e4					2.2	NO		bb		0.000
16	FUNCTION2 PFK	29.03	1.036e4					1.7	NO		db		0.000
17	FUNCTION2 PFK	29.00	8.382e3					1.3	NO		bd		0.000
18	FUNCTION2 PFK	28.80	5.680e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	28.70	1.413e4					1.3	NO		bb		0.000
20	FUNCTION2 PFK	28.60	2.690e3					0.7	NO		bb		0.000
21	FUNCTION2 PFK	32.35	9.362e3					1.3	NO		bd		0.000
22	FUNCTION2 PFK	32.28	5.282e3					0.9	NO		bb		0.000
23	FUNCTION2 PFK	31.94	5.478e3					0.6	NO		bb		0.000
24	FUNCTION2 PFK	31.86	9.539e3					1.3	NO		bb		0.000
25	FUNCTION2 PFK	31.70	8.598e3					0.9	NO		bb		0.000
26	FUNCTION2 PFK	31.56	1.164e4					1.5	NO		bb		0.000
27	FUNCTION2 PFK	31.44	9.870e3					1.2	NO		bb		0.000
28	FUNCTION2 PFK	31.37	5.651e3					1.2	NO		bb		0.000
29	FUNCTION2 PFK	31.16	3.906e3					0.7	NO		db		0.000
30	FUNCTION2 PFK	31.10	5.259e3					1.0	NO		bd		0.000
31	FUNCTION2 PFK	31.00	2.220e3					0.5	NO		bb		0.000
32	FUNCTION2 PFK	30.93	4.197e3					0.6	NO		bb		0.000
33	FUNCTION2 PFK	30.84	1.813e4					1.7	NO		bb		0.000
34	FUNCTION2 PFK	30.68	6.046e3					1.3	NO		db		0.000
35	FUNCTION2 PFK	30.64	6.706e3					1.2	NO		dd		0.000
36	FUNCTION2 PFK	30.58	1.475e4					1.4	NO		dd		0.000
37	FUNCTION2 PFK	32.74	9.704e3					1.1	NO		bb		0.000



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.61	1.975e3					0.6	NO		bb		0.000
39	FUNCTION2 PFK	32.55	1.171e3					0.5	NO		bb		0.000
40	FUNCTION2 PFK	32.51	7.325e3					1.0	NO		db		0.000
41	FUNCTION2 PFK	32.45	9.340e3					1.3	NO		dd		0.000
42	FUNCTION2 PFK	32.41	1.322e4					1.9	NO		dd		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.70	5.175e4					1.9	NO		bb		0.000
2	FUNCTION3 PFK	35.52	3.681e5					3.3	YES		bb		0.000
3	FUNCTION3 PFK	34.42	8.023e6					1.5	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.67	5.668e6					23.1	YES		db		
2	FUNCTION4 PFK	39.84	1.814e7					26.9	YES		dd		
3	FUNCTION4 PFK	38.09	2.173e6					22.8	YES		bd		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.82	4.953e3					1.4	NO		bb		
2	FUNCTION5 PFK	45.79	4.078e3					1.3	NO		db		
3	FUNCTION5 PFK	45.76	2.296e3					0.8	NO		bd		
4	FUNCTION5 PFK	45.37	1.499e4					1.8	NO		bb		
5	FUNCTION5 PFK	45.31	3.040e3					1.0	NO		bb		
6	FUNCTION5 PFK	44.94	1.866e3					0.7	NO		bb		
7	FUNCTION5 PFK	44.62	4.342e3					1.3	NO		bb		
8	FUNCTION5 PFK	43.85	4.909e3					1.2	NO		bb		
9	FUNCTION5 PFK	43.55	9.698e3					1.7	NO		bb		
10	FUNCTION5 PFK	43.31	1.818e4					2.2	NO		bb		
11	FUNCTION5 PFK	43.18	3.274e3					1.0	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230303\HICV.qld  
 Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time  
 Printed: Monday, March 06, 2023 14:47:33 Pacific Standard Time

**ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk**

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.14	7.703e1					2.6	NO		bb		0.000
2	FUNCTION1 HXCD...	25.58	1.369e2					3.0	NO		bb		0.000
3	FUNCTION1 HXCD...	24.29	7.654e1					1.4	NO		bb		0.000
4	FUNCTION1 HXCD...	23.49	8.895e1					2.4	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.41	1.026e2					2.4	NO		db		0.000
2	FUNCTION2 HPCD...	32.32	1.299e2					2.2	NO		bd		0.000
3	FUNCTION2 HPCD...	31.19	1.035e2					3.9	YES		db		0.000
4	FUNCTION2 HPCD...	31.15	2.274e2					6.9	YES		bd		0.000
5	FUNCTION2 HPCD...	29.21	1.504e2					2.9	NO		bb		0.000
6	FUNCTION2 HPCD...	28.77	9.035e1					2.8	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	9.563e1					4.4	YES		bb		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS6**

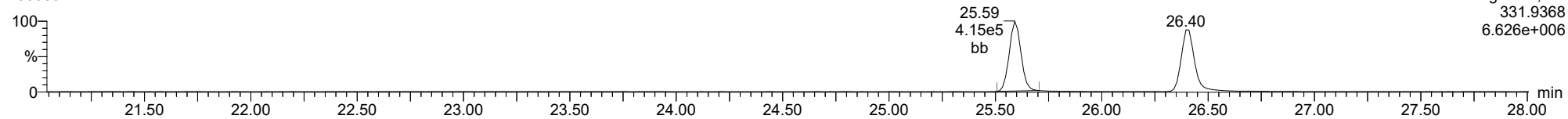
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Method:** T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50  
**Calibration:** T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

**ID:** CS3W2, **Name:** 23030311, **Date:** 03-Mar-2023, **Time:** 17:25:01, **Conditions:** AUTOSPEC01, **User:** pk

**13C-1234-TCDD**

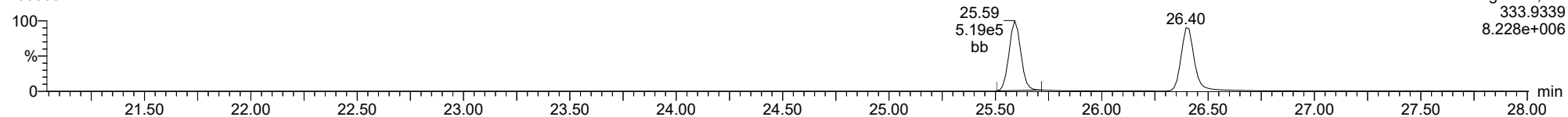
23030311



F1:Voltage SIR,El+  
331.9368  
6.626e+006

**13C-1234-TCDD**

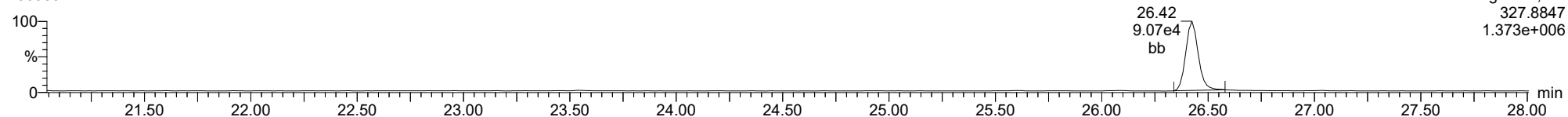
23030311



F1:Voltage SIR,El+  
333.9339  
8.228e+006

**37CL-2378-TCDD**

23030311

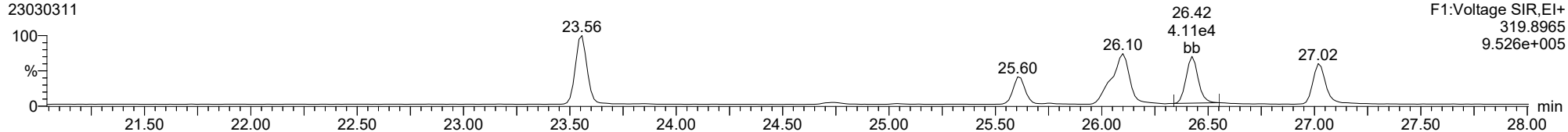


F1:Voltage SIR,El+  
327.8847  
1.373e+006

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

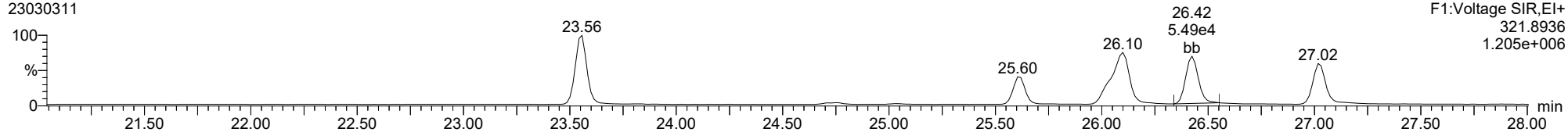
23030311



F1:Voltage SIR,EI+  
319.8965  
9.526e+005

**2378-TCDD**

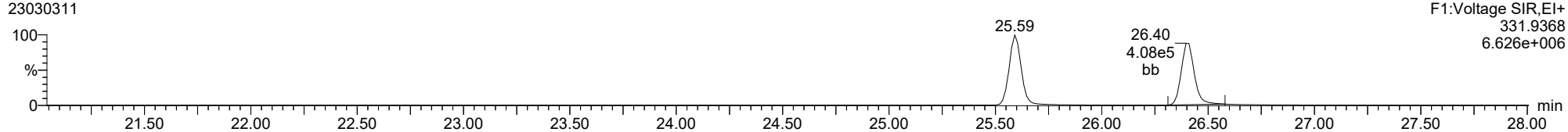
23030311



F1:Voltage SIR,EI+  
321.8936  
1.205e+006

**13C-2378-TCDD**

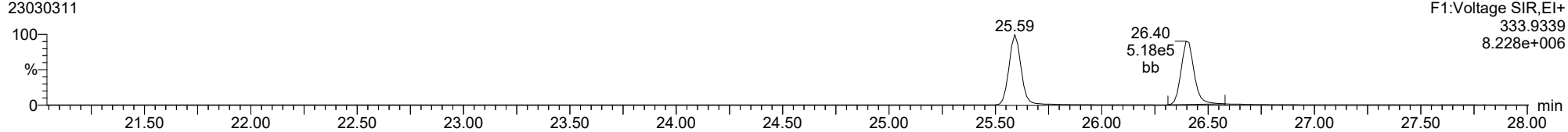
23030311



F1:Voltage SIR,EI+  
331.9368  
6.626e+006

**13C-2378-TCDD**

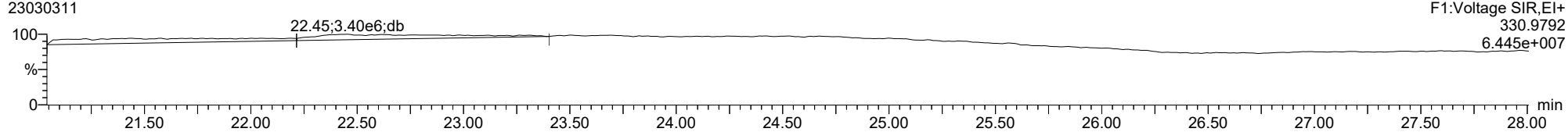
23030311



F1:Voltage SIR,EI+  
333.9339  
8.228e+006

**FUNCTION1 PFK**

23030311

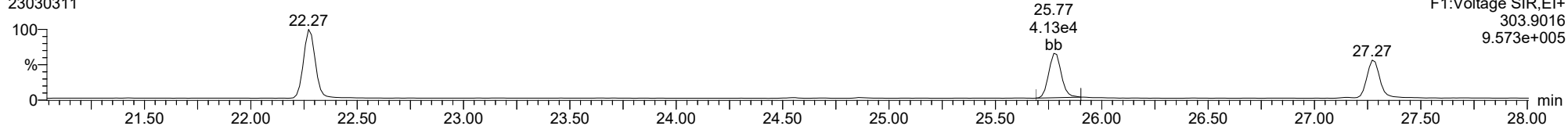


F1:Voltage SIR,EI+  
330.9792  
6.445e+007

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

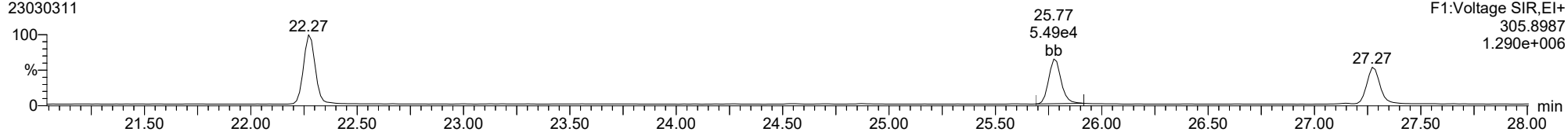
2378-TCDF

23030311



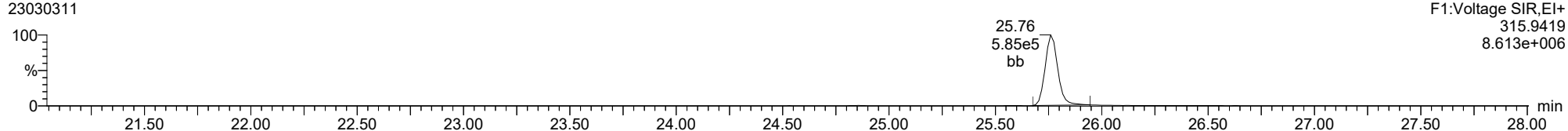
2378-TCDF

23030311



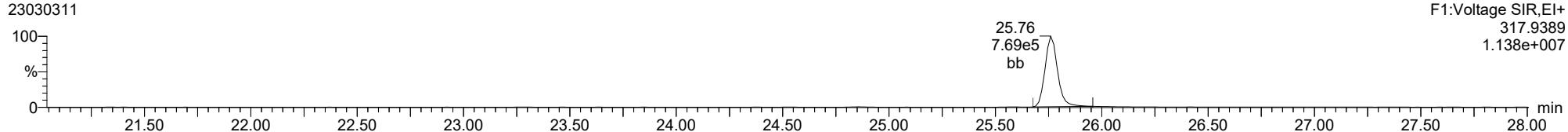
13C-2378-TCDF

23030311



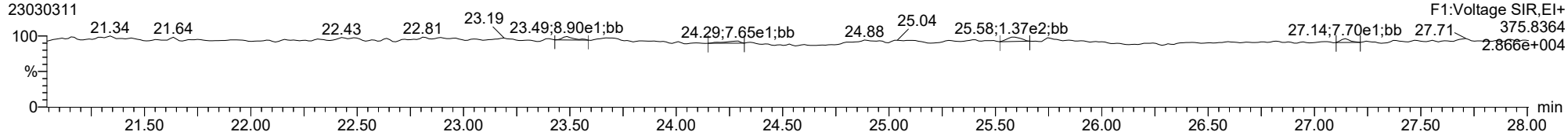
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23030311



FUNCTION1 HXCDPE

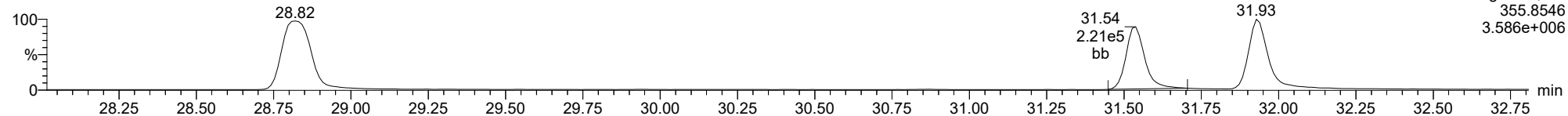
23030311



ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

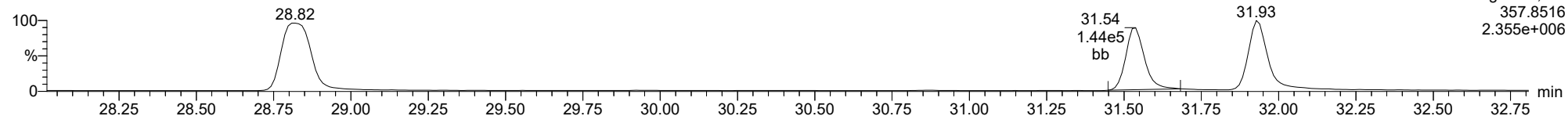
23030311



F2:Voltage SIR,EI+  
355.8546  
3.586e+006

**12378-PeCDD**

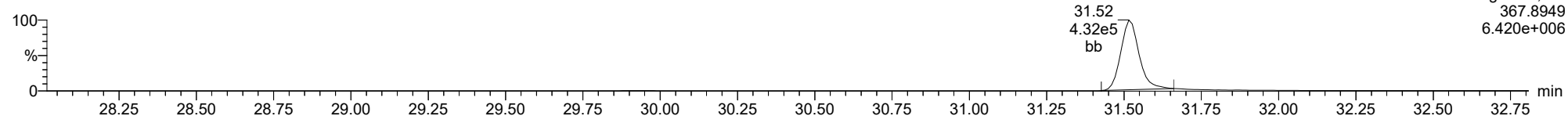
23030311



F2:Voltage SIR,EI+  
357.8516  
2.355e+006

**13C-12378-PeCDD**

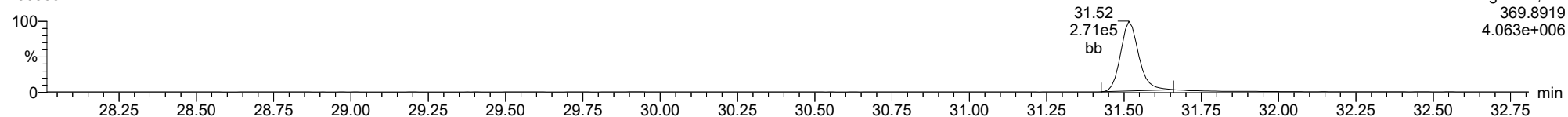
23030311



F2:Voltage SIR,EI+  
367.8949  
6.420e+006

**13C-12378-PeCDD**

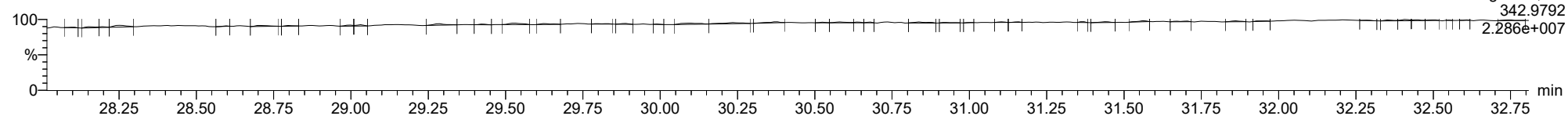
23030311



F2:Voltage SIR,EI+  
369.8919  
4.063e+006

**FUNCTION2 PFK**

23030311

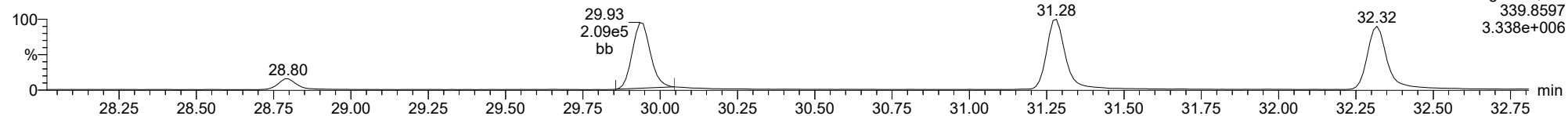


F2:Voltage SIR,EI+  
342.9792  
2.286e+007

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

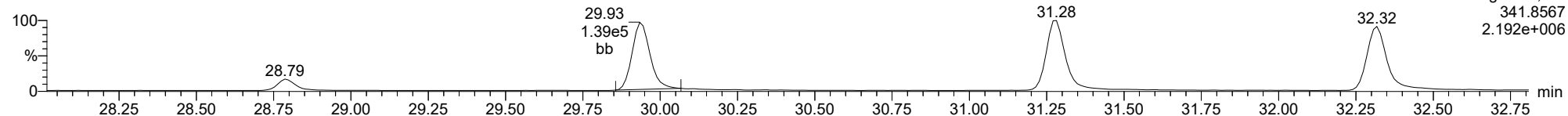
**12378-PeCDF**

23030311



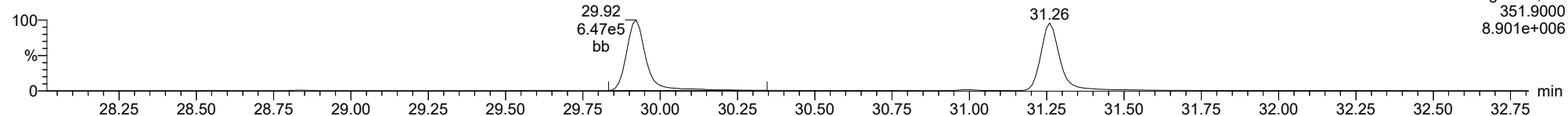
**12378-PeCDF**

23030311



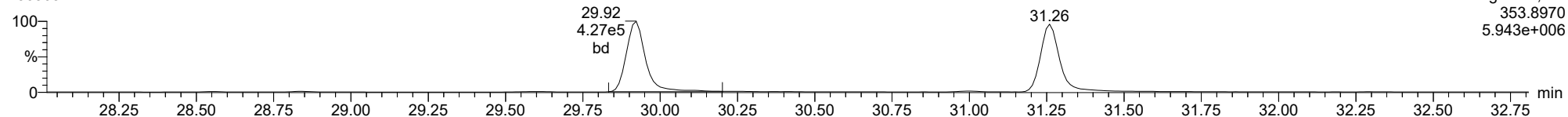
**13C-12378-PeCDF**

23030311



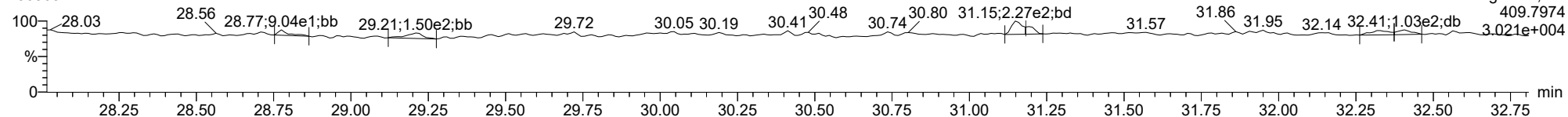
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23030311



**FUNCTION2 HPCDPE**

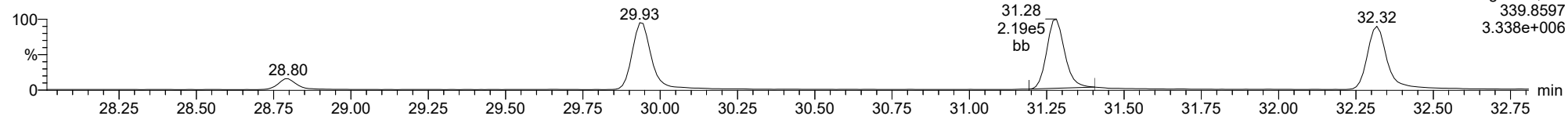
23030311



ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

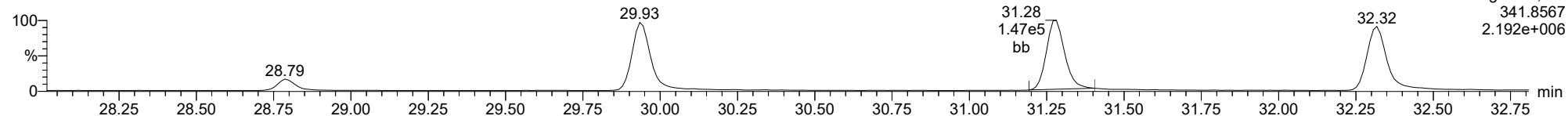
23030311



F2:Voltage SIR,EI+  
339.8597  
3.338e+006

**23478-PeCDF**

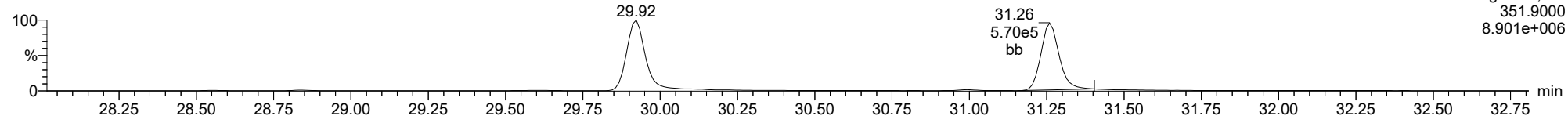
23030311



F2:Voltage SIR,EI+  
341.8567  
2.192e+006

**13C-23478-PeCDF**

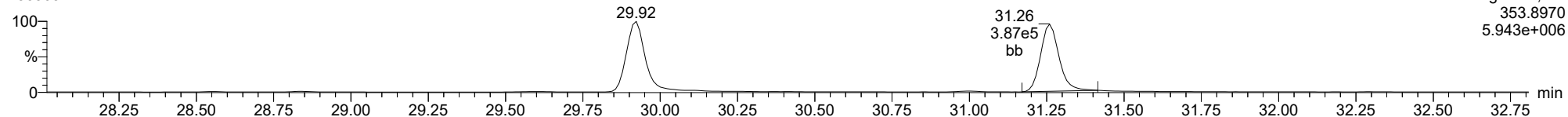
23030311



F2:Voltage SIR,EI+  
351.9000  
8.901e+006

**13C-23478-PeCDF**

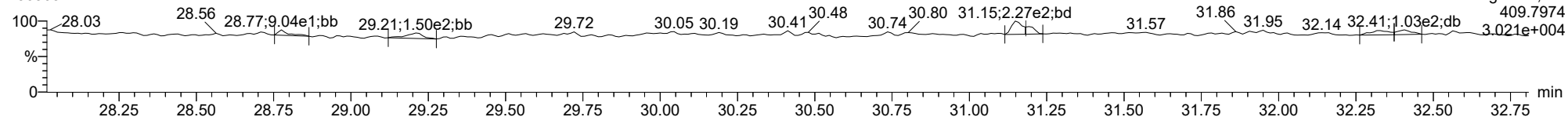
23030311



F2:Voltage SIR,EI+  
353.8970  
5.943e+006

**FUNCTION2 HPCDPE**

23030311



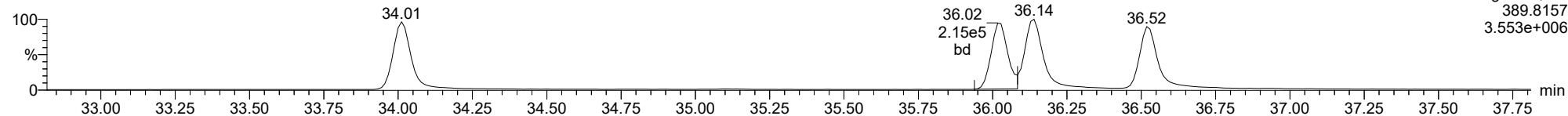
F2:Voltage SIR,EI+  
409.7974  
3.021e+004



ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

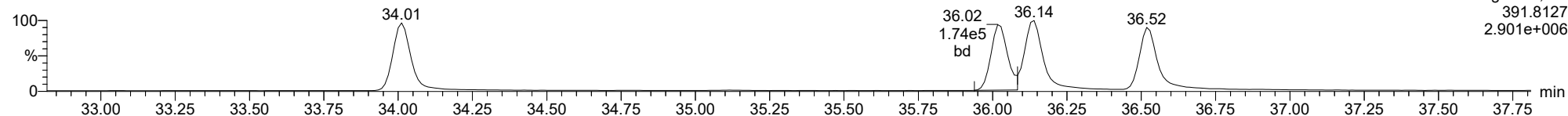
123478-HxCDD

23030311



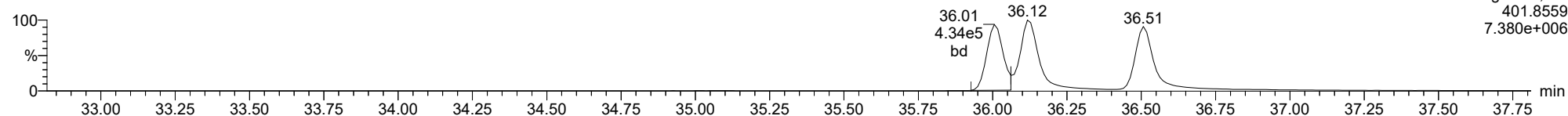
123478-HxCDD

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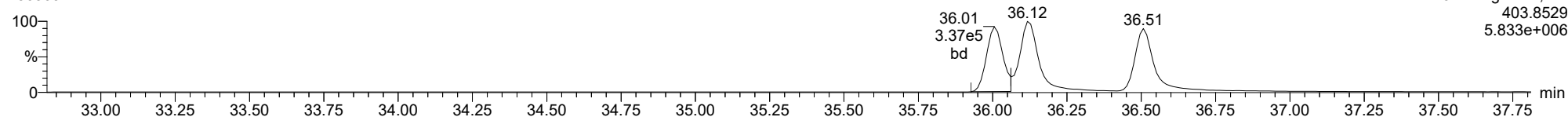
13C-123478-HxCDD

23030311



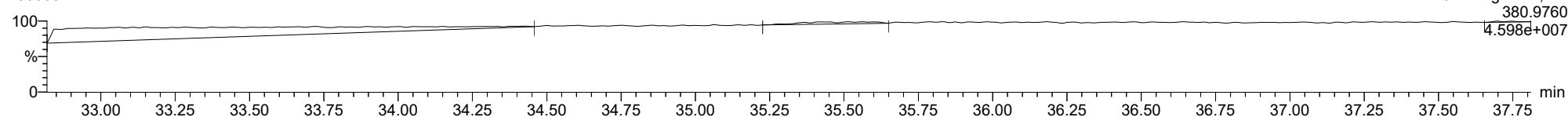
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23030311



FUNCTION3 PFK

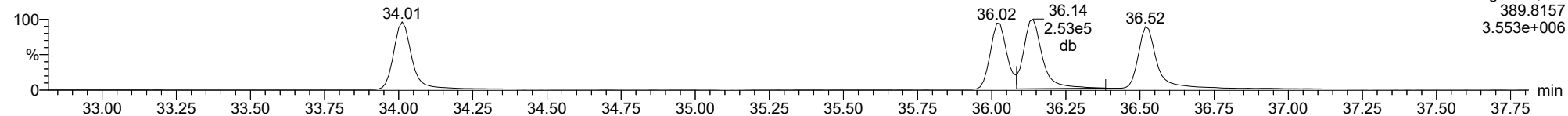
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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

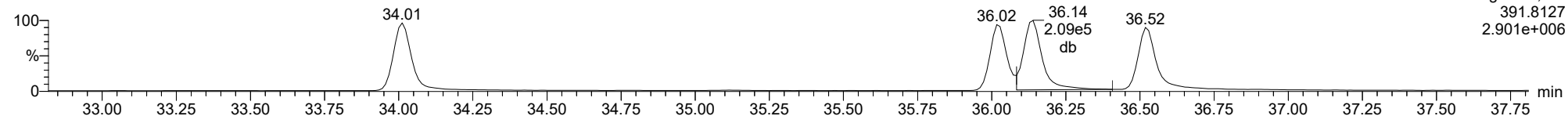
23030311



F3:Voltage SIR,EI+  
389.8157  
3.553e+006

**123678-HxCDD**

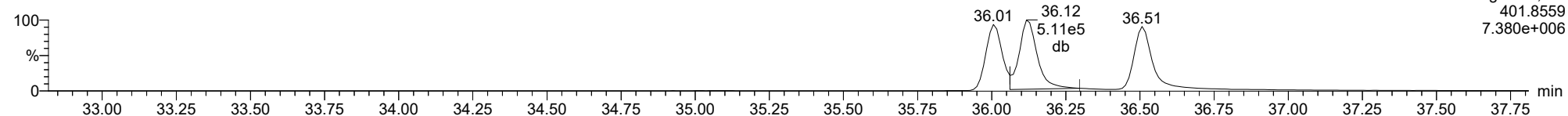
23030311



F3:Voltage SIR,EI+  
391.8127  
2.901e+006

**13C-123678-HxCDD**

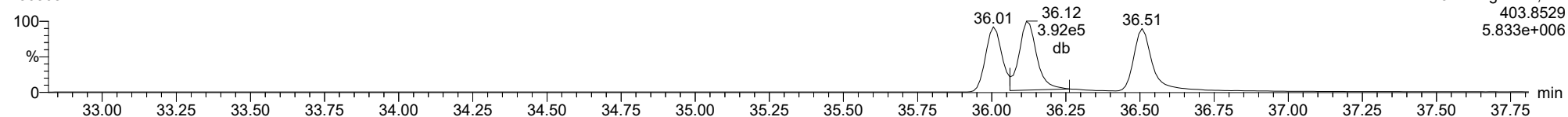
23030311



F3:Voltage SIR,EI+  
401.8559  
7.380e+006

**13C-123678-HxCDD**

23030311

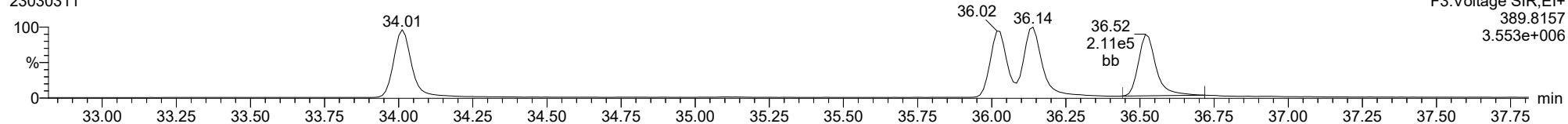


F3:Voltage SIR,EI+  
403.8529  
5.833e+006

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

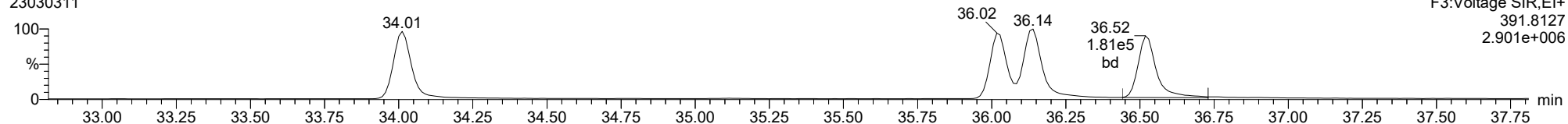
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23030311



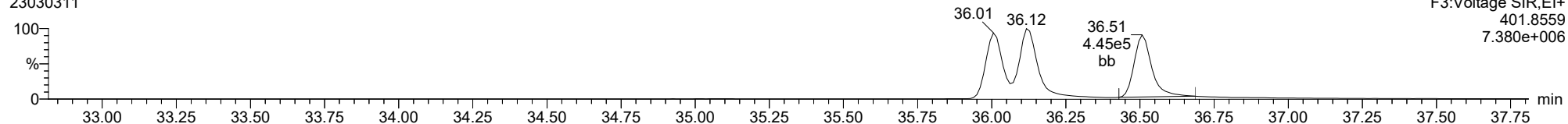
123789-HxCDD

23030311



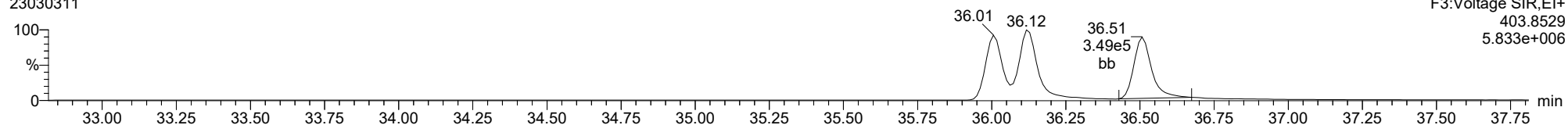
13C-123789-HxCDD

23030311



13C-123789-HxCDD

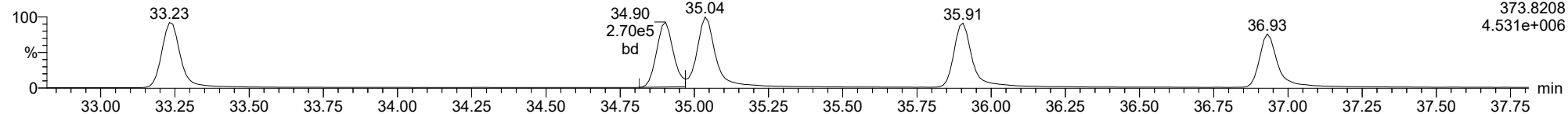
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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

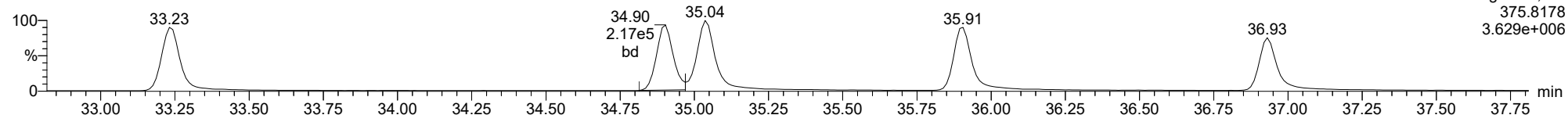
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23030311



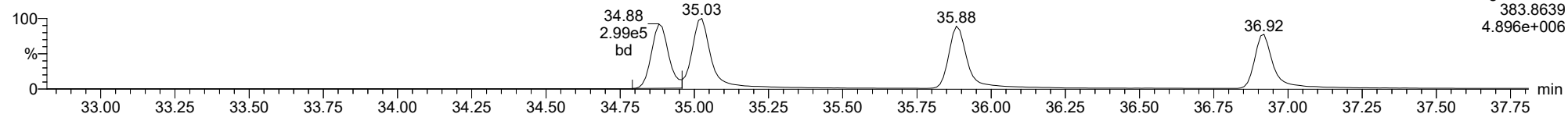
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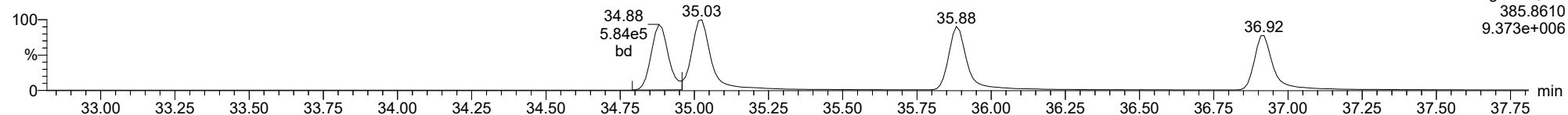
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23030311



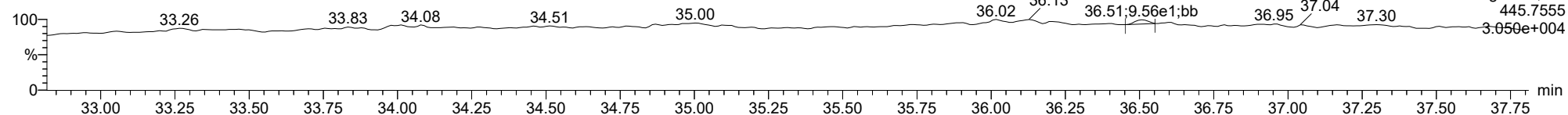
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23030311



**FUNCTION3 OCDPE**

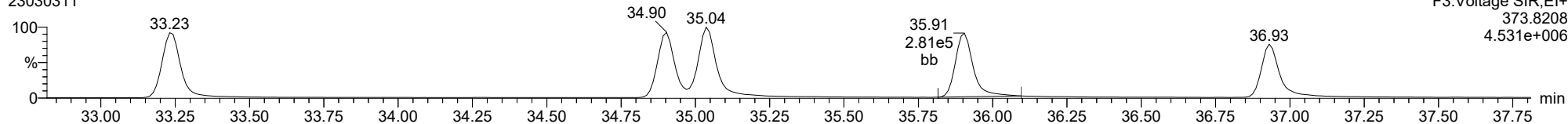
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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

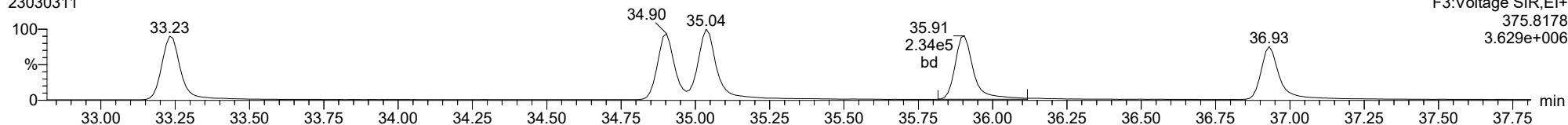
**234678-HxCDF**

23030311



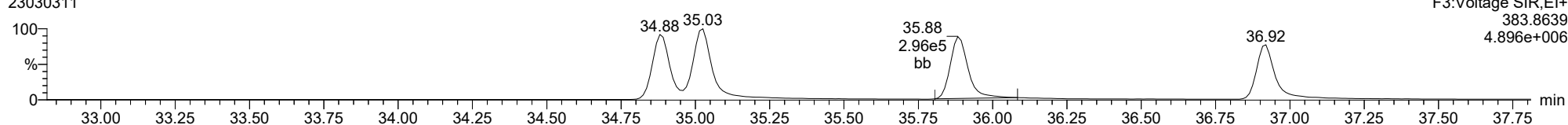
**234678-HxCDF**

23030311



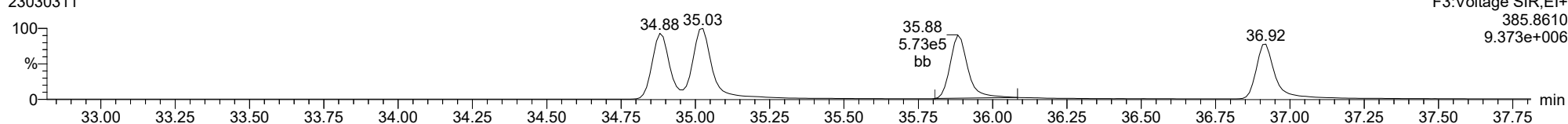
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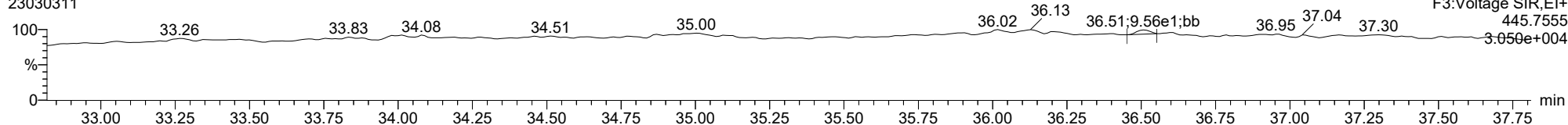
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**FUNCTION3 OCDPE**

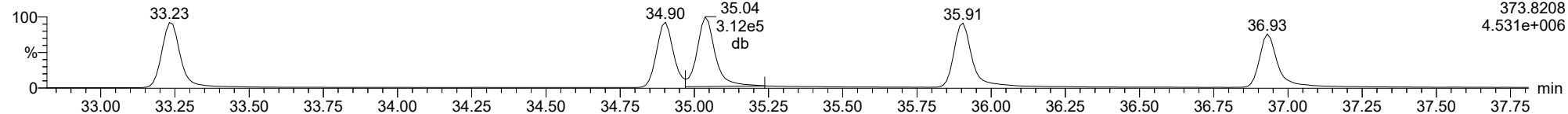
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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

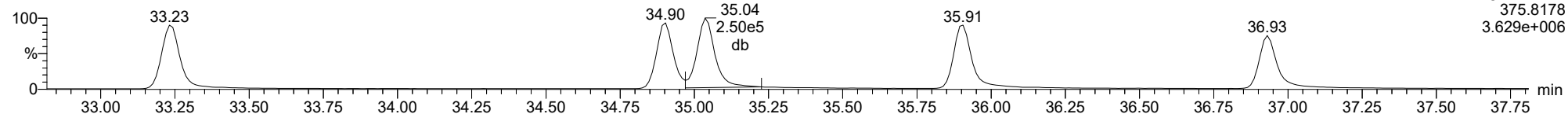
123678-HxCDF

23030311



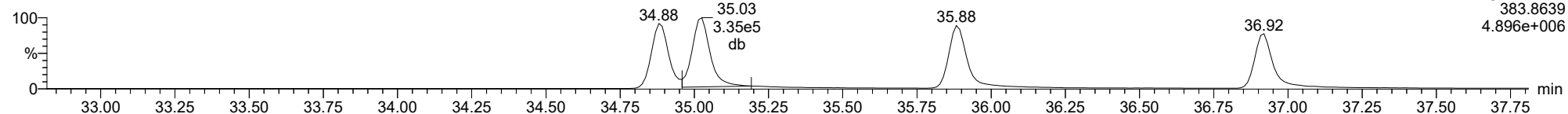
123678-HxCDF

23030311



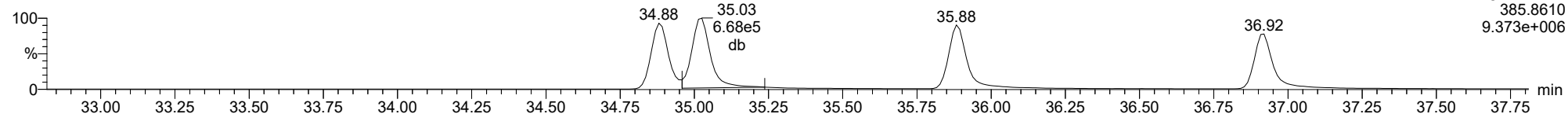
13C-123678-HxCDF

23030311



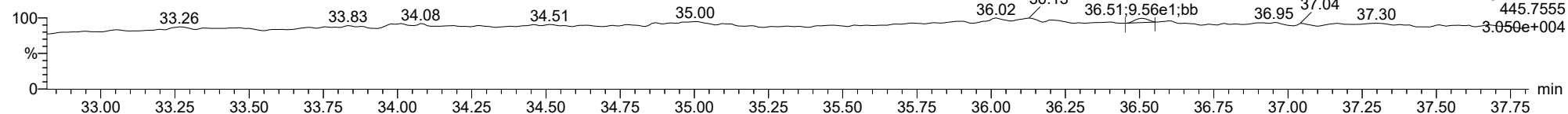
13C-123678-HxCDF

23030311



FUNCTION3 OCDPE

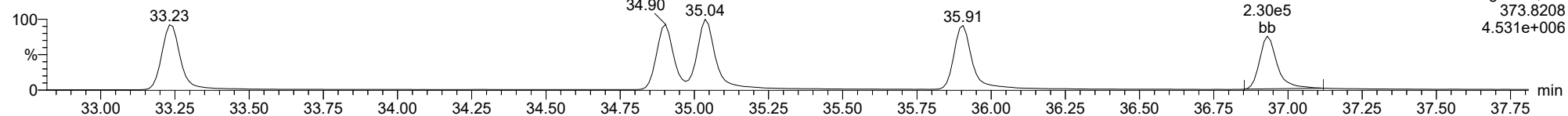
23030311



ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

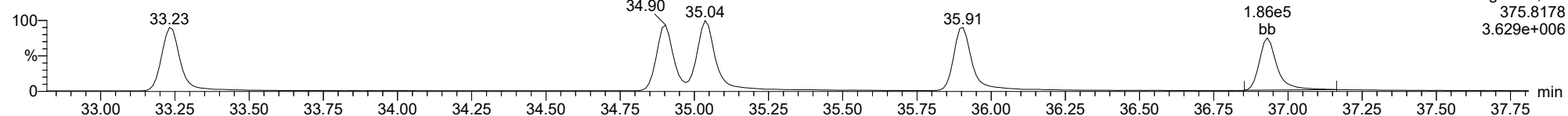
**123789-HxCDF**

23030311



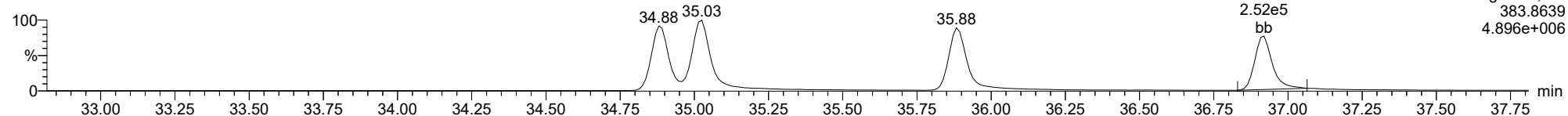
**123789-HxCDF**

23030311



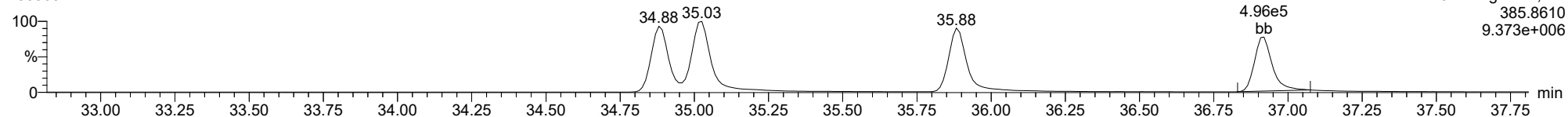
**13C-123789-HxCDF**

23030311



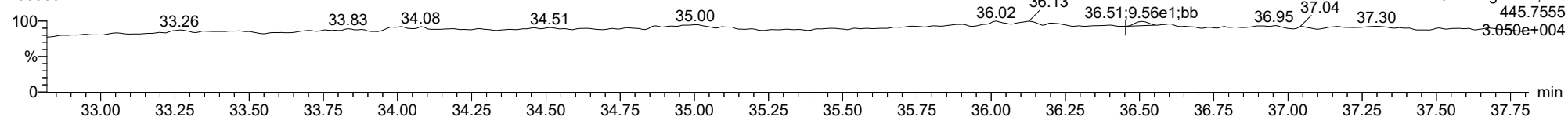
**13C-123789-HxCDF**

23030311



**FUNCTION3 OCDPE**

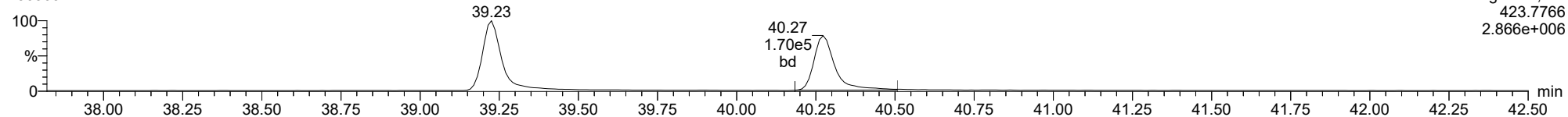
23030311



ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

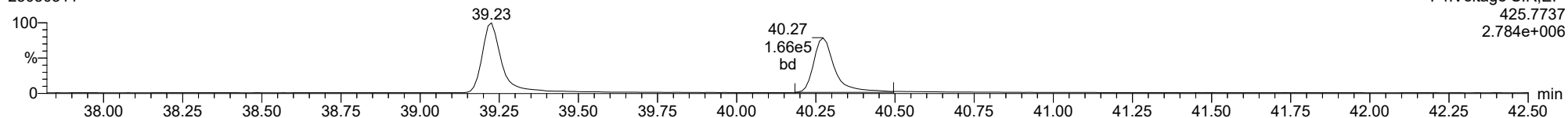
23030311



F4:Voltage SIR,EI+  
423.7766  
2.866e+006

1234678-HpCDD

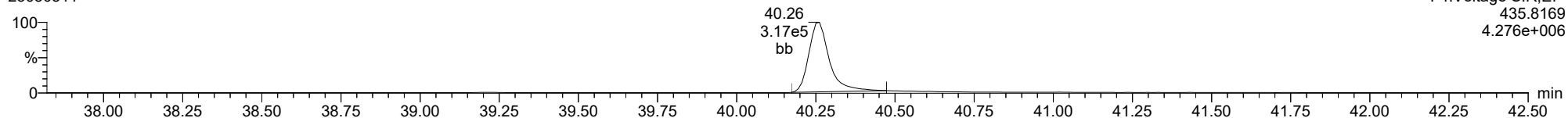
23030311



F4:Voltage SIR,EI+  
425.7737  
2.784e+006

13C-1234678-HpCDD

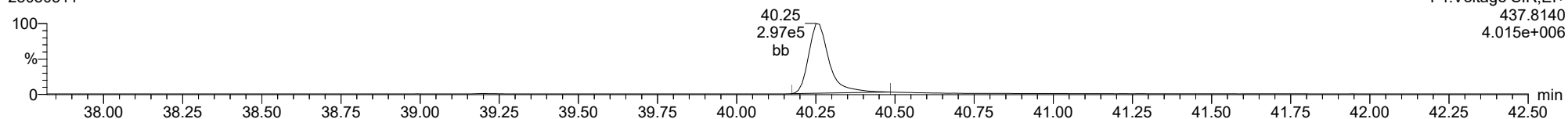
23030311



F4:Voltage SIR,EI+  
435.8169  
4.276e+006

13C-1234678-HpCDD

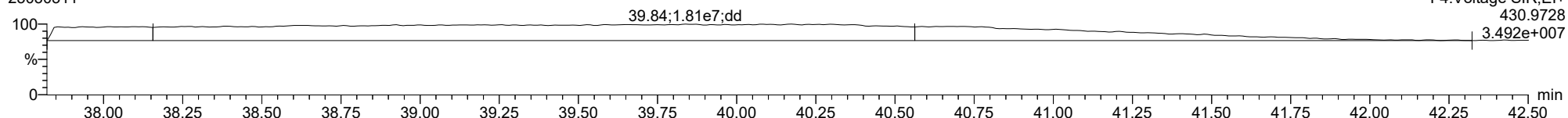
23030311



F4:Voltage SIR,EI+  
437.8140  
4.015e+006

FUNCTION4 PFK

23030311



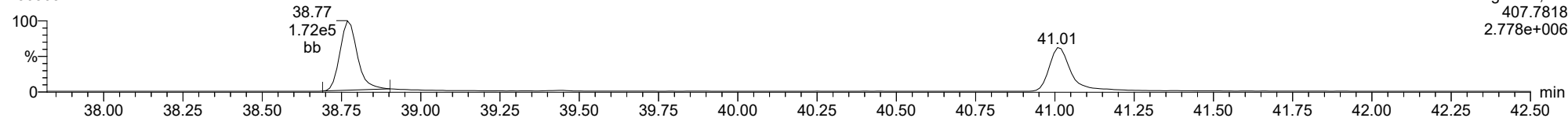
F4:Voltage SIR,EI+  
430.9728  
3.492e+007



ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

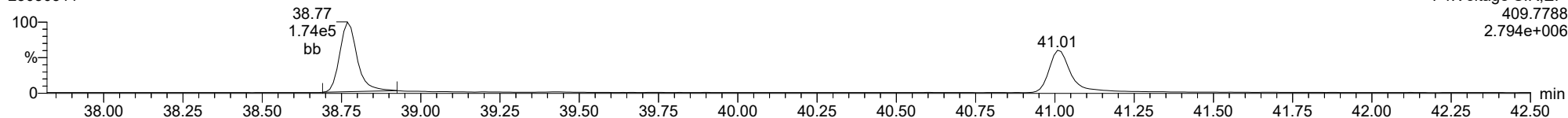
1234678-HpCDF

23030311



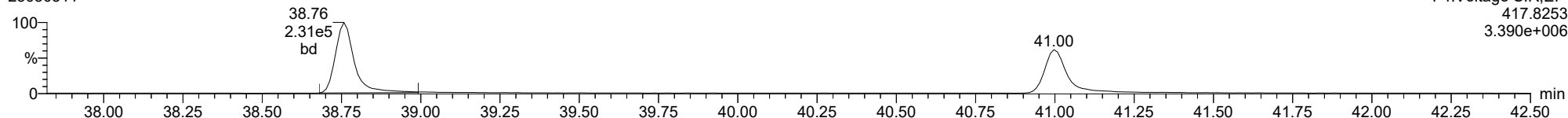
1234678-HpCDF

23030311



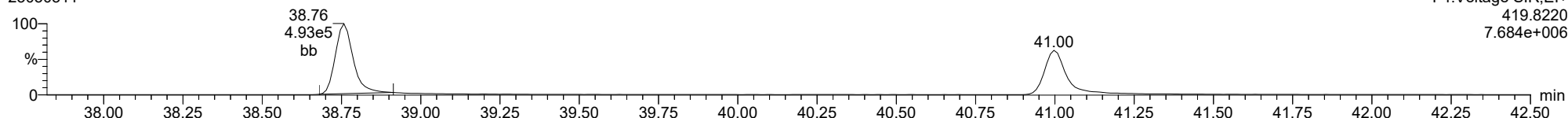
13C-1234678-HpCDF

23030311



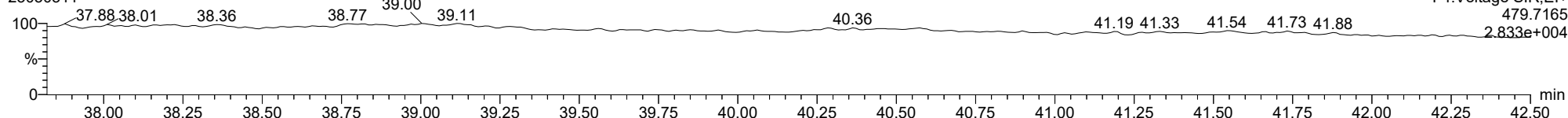
13C-1234678-HpCDF

23030311



FUNCTION4 NCDPE

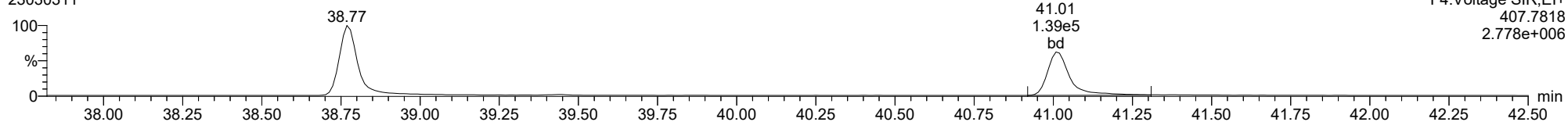
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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

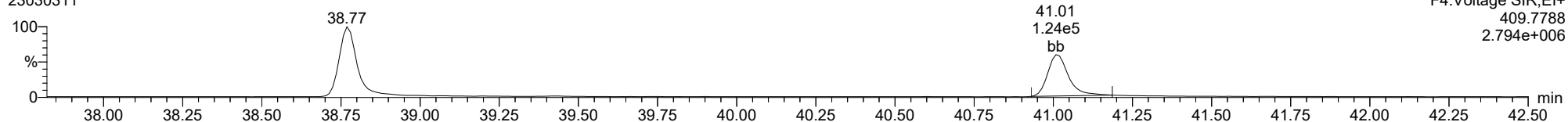
23030311



F4:Voltage SIR,El+  
409.7788  
2.778e+006

1234789-HpCDF

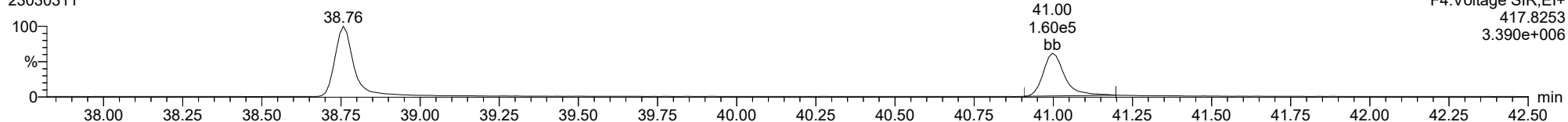
23030311



F4:Voltage SIR,El+  
409.7788  
2.794e+006

13C-1234789-HpCDF

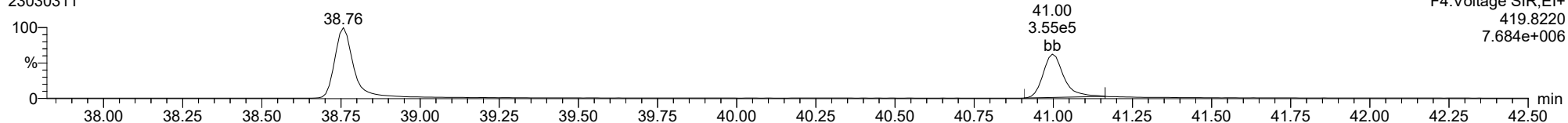
23030311



F4:Voltage SIR,El+  
417.8253  
3.390e+006

13C-1234789-HpCDF

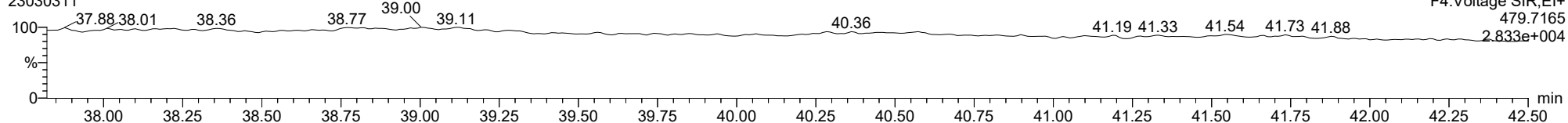
23030311



F4:Voltage SIR,El+  
419.8220  
7.684e+006

FUNCTION4 NCDPE

23030311

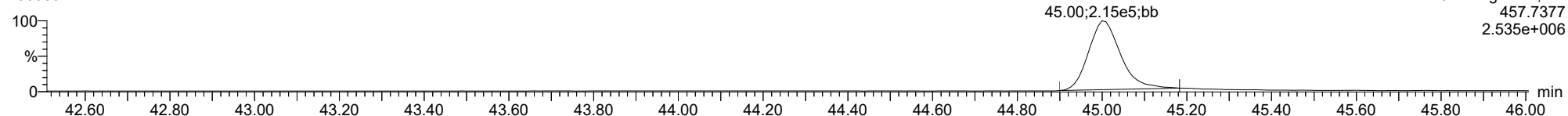


F4:Voltage SIR,El+  
479.7165  
2.833e+004

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

**OCDD**

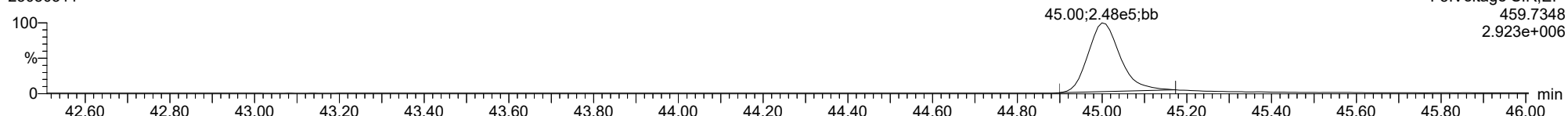
23030311



F5:Voltage SIR,EI+  
457.7377  
2.535e+006

**OCDD**

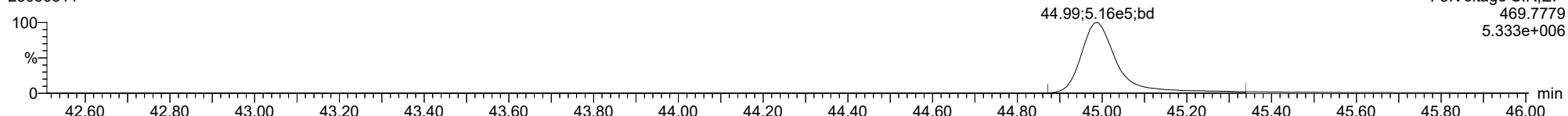
23030311



F5:Voltage SIR,EI+  
459.7348  
2.923e+006

**13C-OCDD**

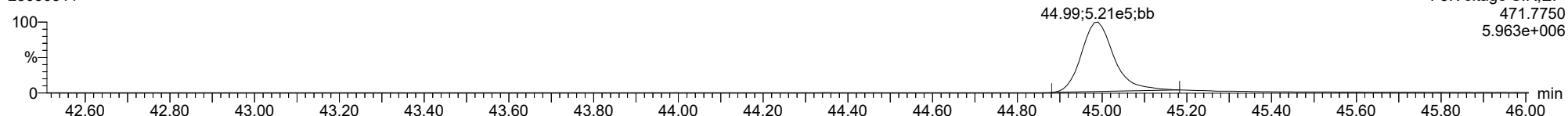
23030311



F5:Voltage SIR,EI+  
469.7779  
5.333e+006

**13C-OCDD**

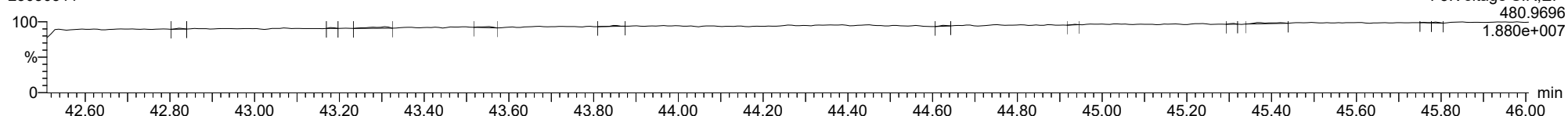
23030311



F5:Voltage SIR,EI+  
471.7750  
5.963e+006

**FUNCTION5 PFK**

23030311

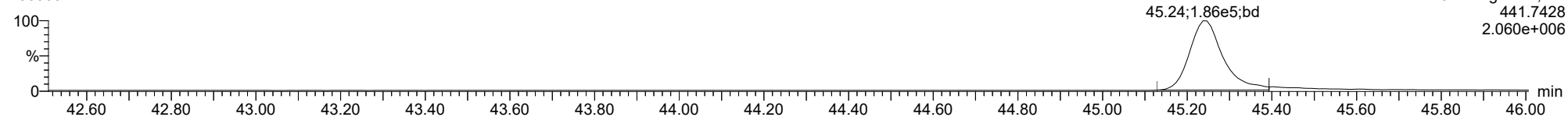


F5:Voltage SIR,EI+  
480.9696  
1.880e+007

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

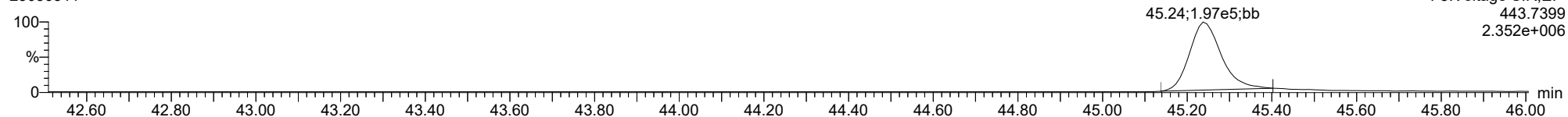
**OCDF**

23030311



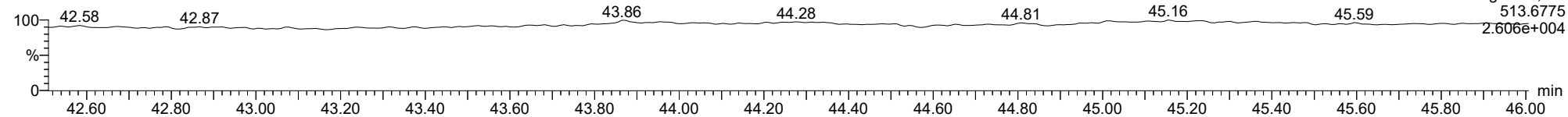
**OCDF**

23030311



**FUNCTION5 DCDPE**

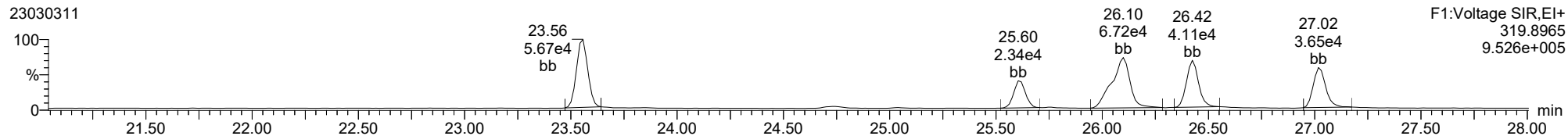
23030311



ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

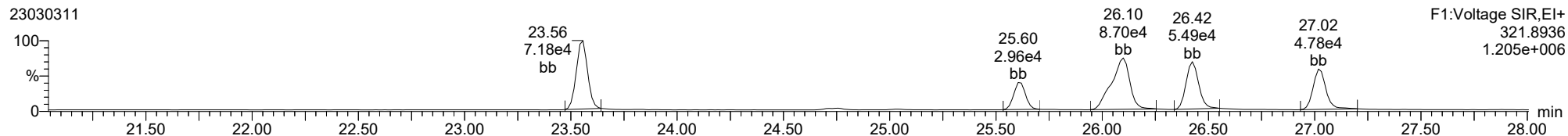
**Total-tetradoxins**

23030311



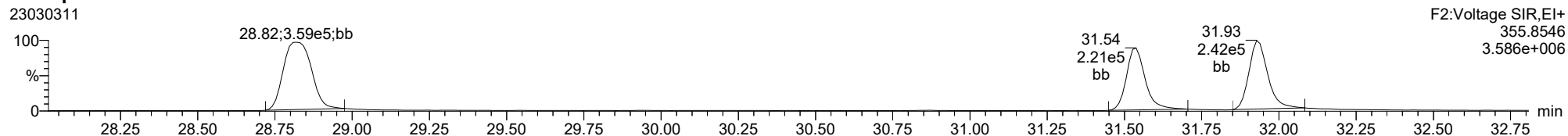
**Total-tetradoxins**

23030311



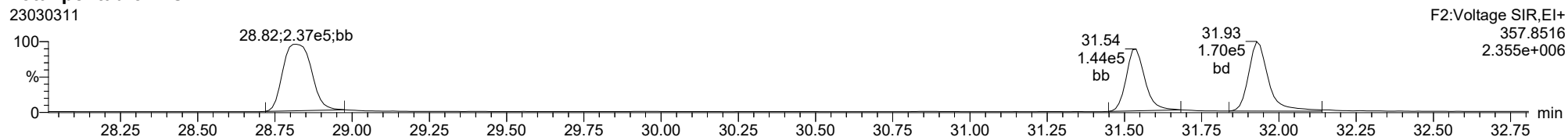
**Total-pentadoxins**

23030311



**Total-pentadoxins**

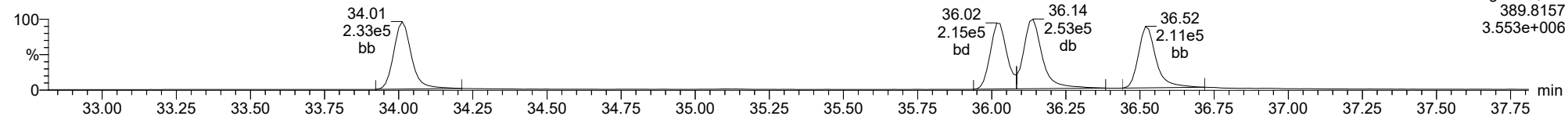
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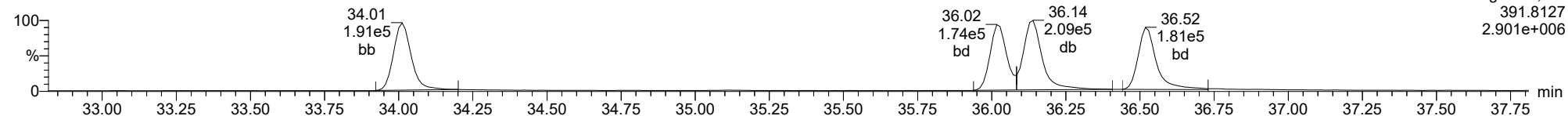
**Total-hexadioxins**

23030311



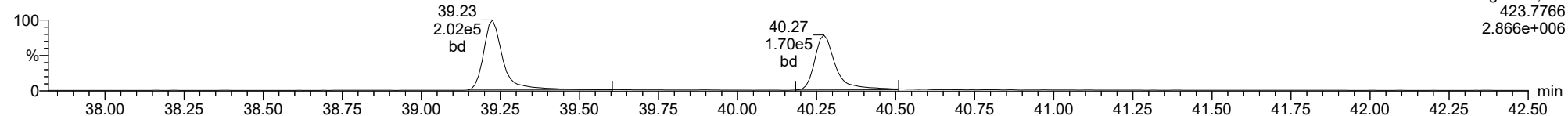
**Total-hexadioxins**

23030311



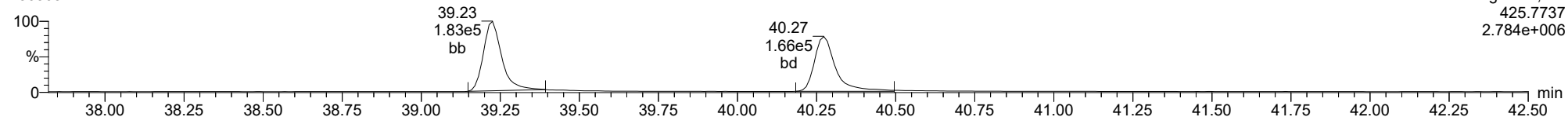
**Total-heptadioxins**

23030311



**Total-heptadioxins**

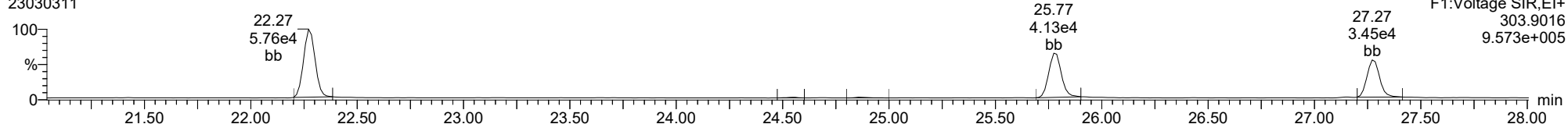
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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

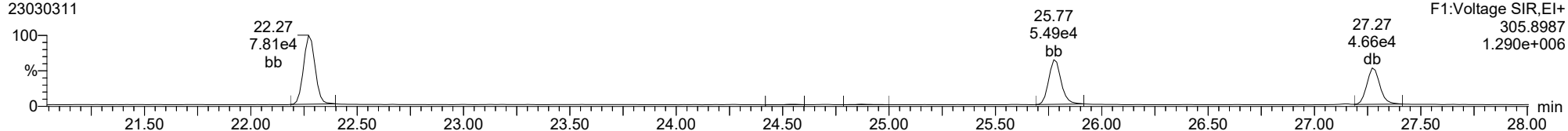
**Total-tetrafurans**

23030311



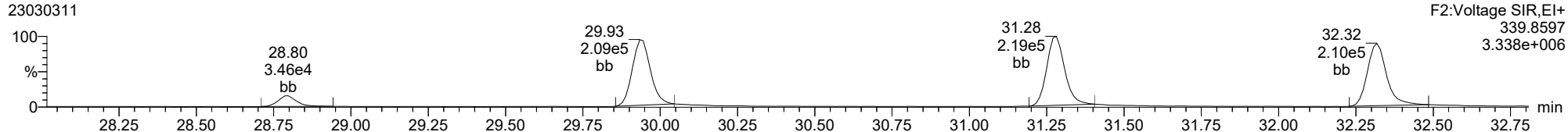
**Total-tetrafurans**

23030311



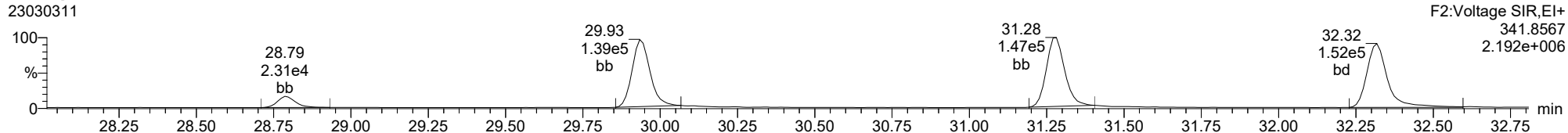
**Total-pentafurans**

23030311



**Total-pentafurans**

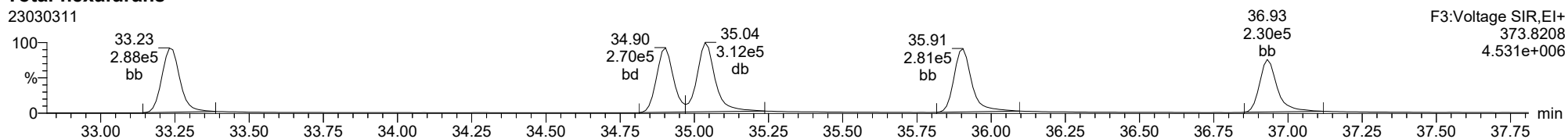
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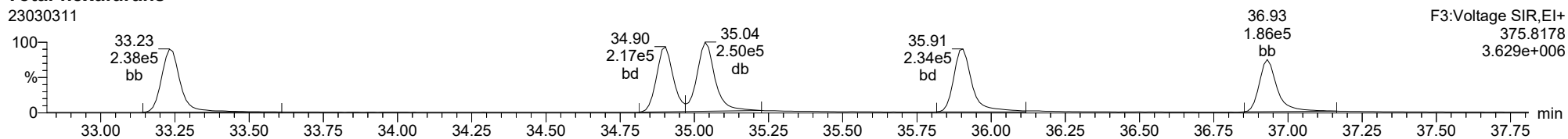
**Total-hexafurans**

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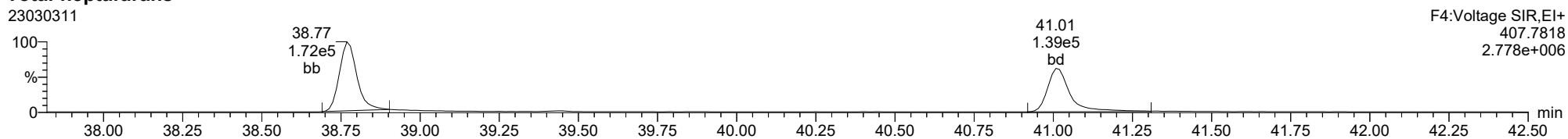
**Total-hexafurans**

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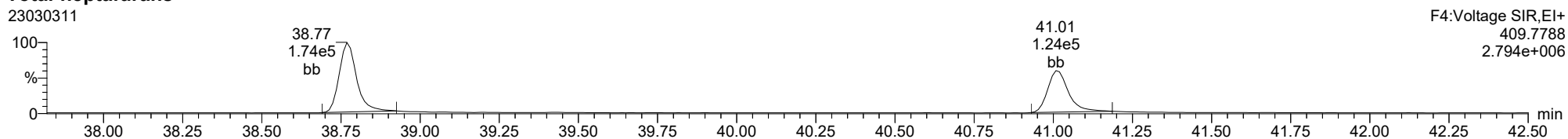
**Total-heptafurans**

23030311



**Total-heptafurans**

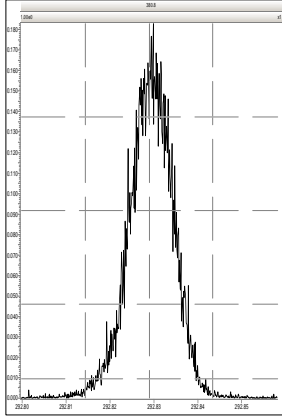
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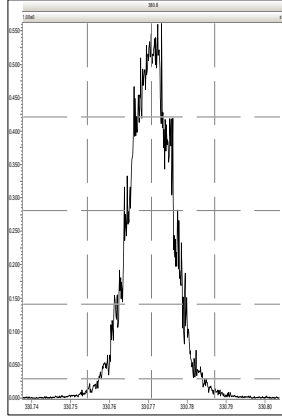


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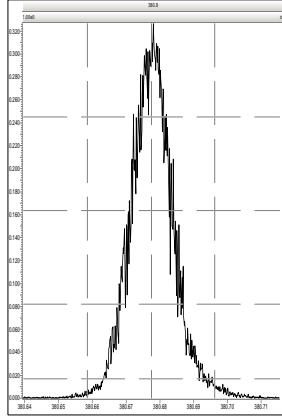
M 292.9824 R 13158



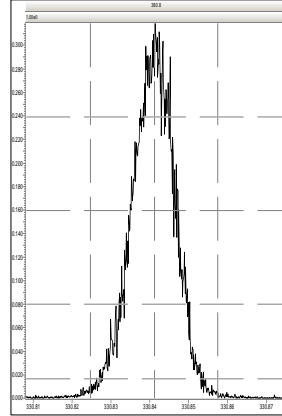
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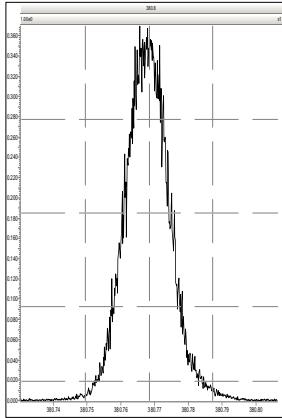
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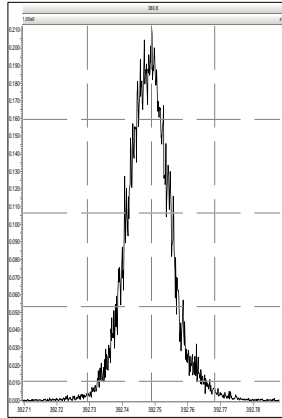
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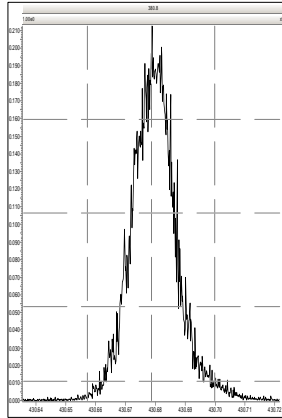
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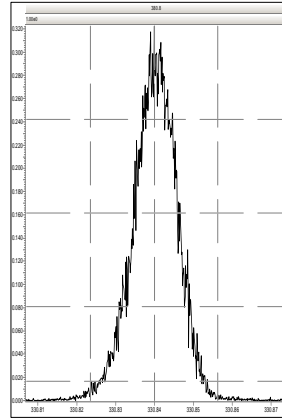
M 392.9760 R 11881



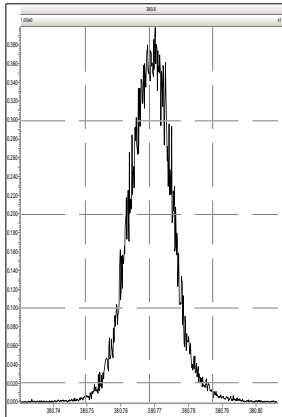
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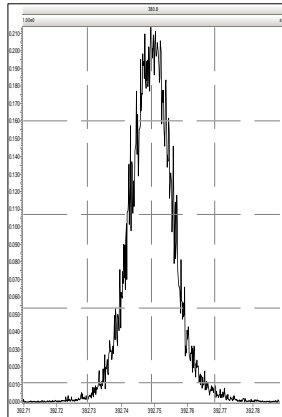
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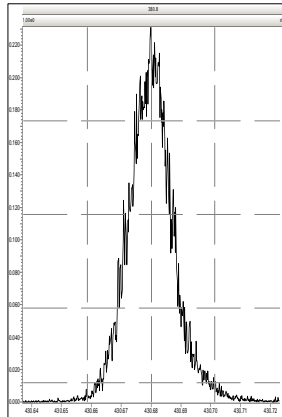
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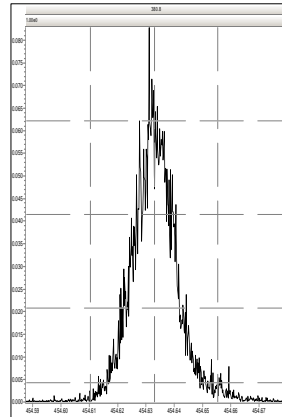
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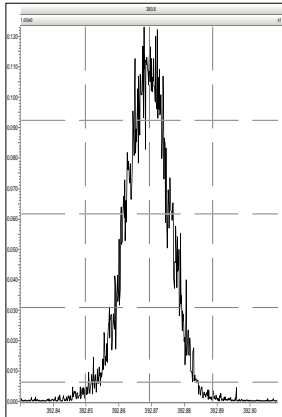
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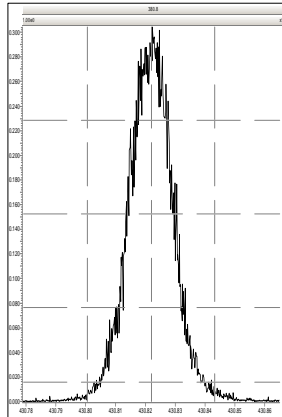
M 454.9728 R 13450



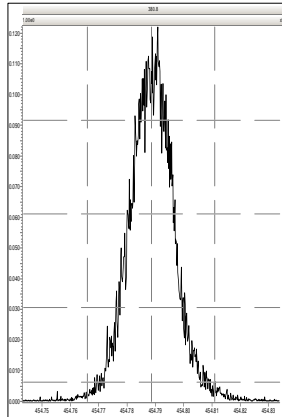
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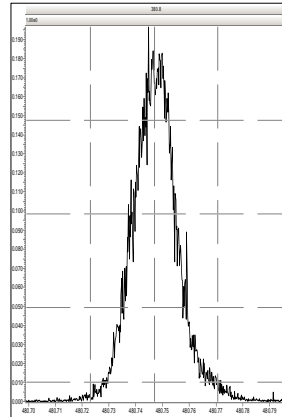
M 430.9728 R 12345



M 454.9728 R 13094

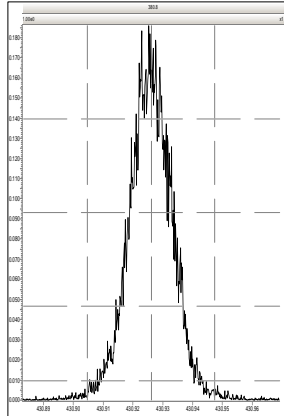


M 480.9696 R 12230

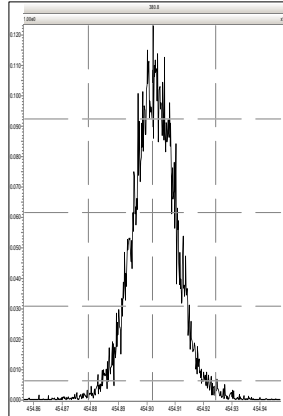


Printed: Friday, March 03, 2023 18:18:18 Pacific Standard Time

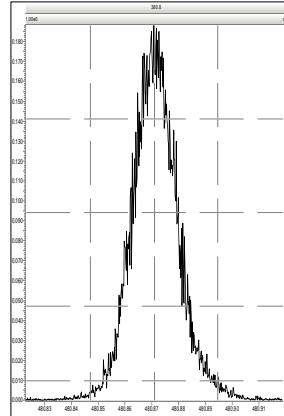
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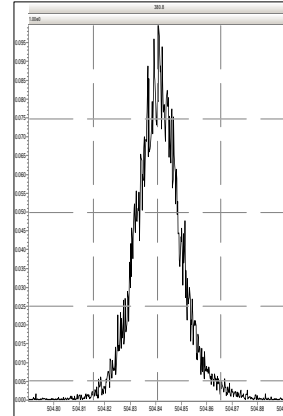
M 454.9728 R 13400



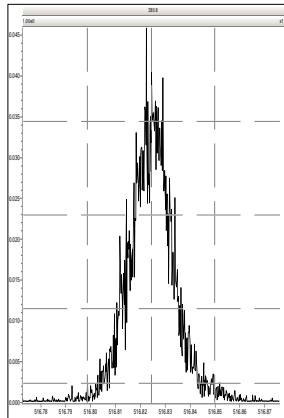
M 480.9696 R 11904



M 504.9696 R 12168



M 516.9697 R 13193

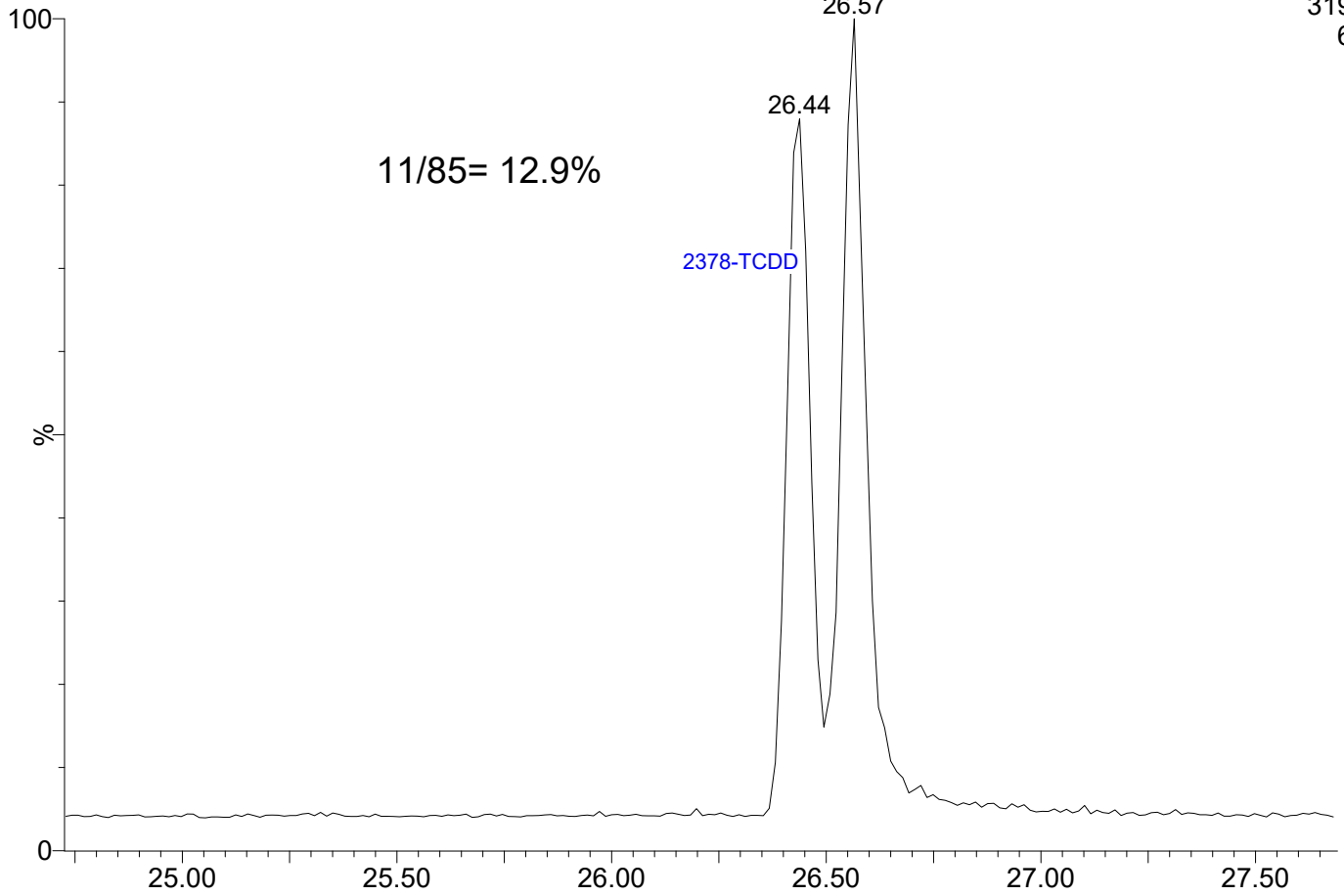


23030312

1: Voltage SIR 14 Channels EI+

319.8965

6.52e5

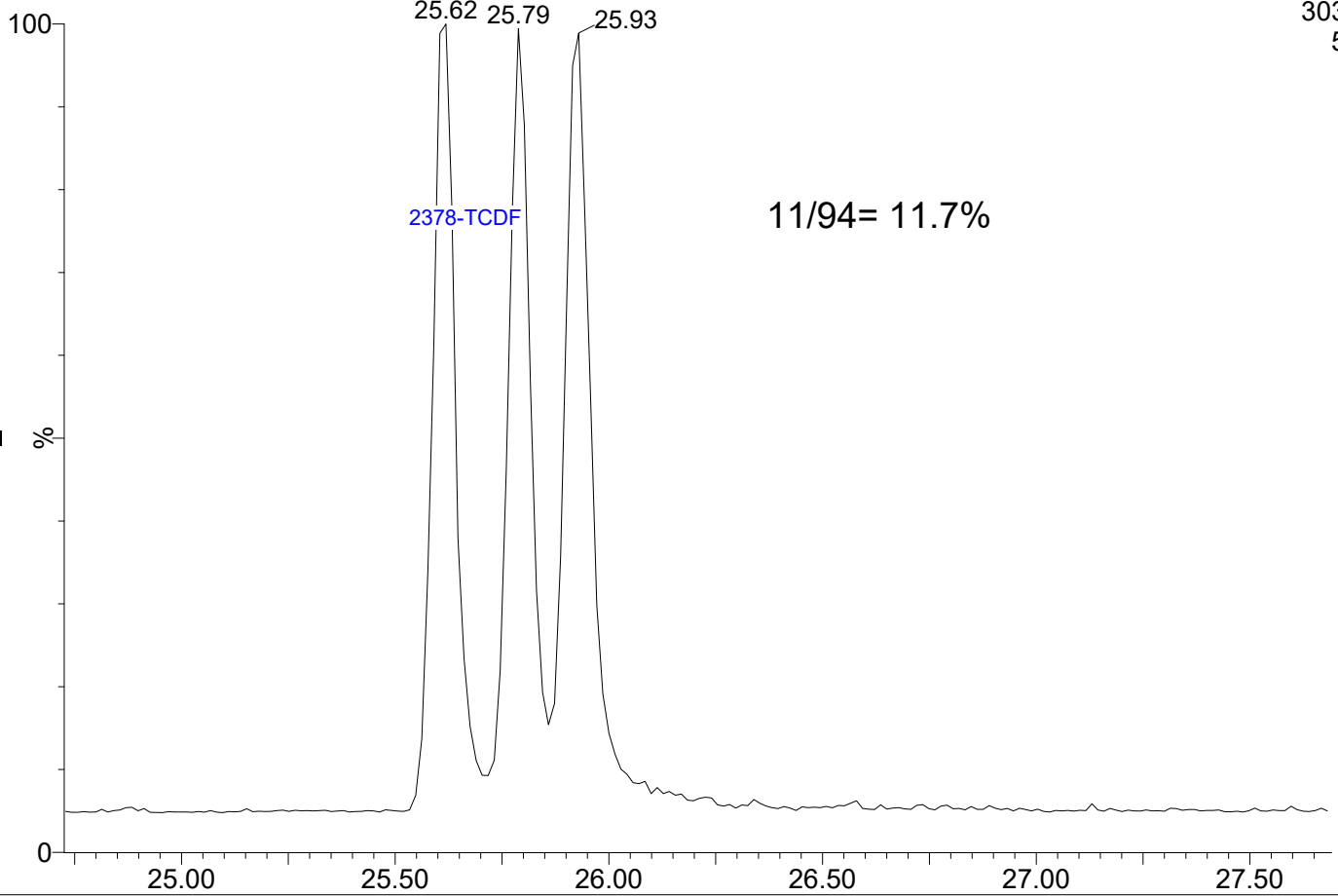


23030312

1: Voltage SIR 14 Channels EI+

303.9016

5.59e5





**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**SDG:** 22L0246

**Client:** Anchor QEA, LLC

**Project:** AOC4 UR Phase 3

**Calibration:** FC00062

**Laboratory ID:** SKC0306-SCV1

**Sequence:** SKC0306

**Sequence Name:** ICVCH

**Standard ID:** G001361

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,3,7,8-TCDF	10.000	10.6	5.8	
2,3,7,8-TCDD	10.000	11.7	16.8	
1,2,3,7,8-PeCDF	50.000	53.1	6.3	
2,3,4,7,8-PeCDF	50.000	48.6	-2.8	
1,2,3,7,8-PeCDD	50.000	55.1	10.1	
1,2,3,4,7,8-HxCDF	50.000	53.4	6.7	
1,2,3,6,7,8-HxCDF	50.000	54.5	9.0	
2,3,4,6,7,8-HxCDF	50.000	53.7	7.3	
1,2,3,7,8,9-HxCDF	50.000	54.7	9.4	
1,2,3,4,7,8-HxCDD	50.000	57.2	14.5	
1,2,3,6,7,8-HxCDD	50.000	52.2	4.4	
1,2,3,7,8,9-HxCDD	50.000	52.6	5.2	
1,2,3,4,6,7,8-HpCDF	50.000	56.3	12.7	
1,2,3,4,7,8,9-HpCDF	50.000	59.5	19.0	
1,2,3,4,6,7,8-HpCDD	50.000	55.0	9.9	
OCDF	100.00	108	8.3	
OCDD	100.00	111	10.7	
13C12-2,3,7,8-TCDF	100.00	102	1.8	
13C12-2,3,7,8-TCDD	100.00	82.0	-18.0	
13C12-1,2,3,7,8-PeCDF	100.00	104	4.2	
13C12-2,3,4,7,8-PeCDF	100.00	107	7.2	
13C12-1,2,3,7,8-PeCDD	100.00	97.8	-2.2	
13C12-1,2,3,4,7,8-HxCDF	100.00	118	18.2	
13C12-1,2,3,6,7,8-HxCDF	100.00	123	23.4	
13C12-2,3,4,6,7,8-HxCDF	100.00	112	12.1	
13C12-1,2,3,7,8,9-HxCDF	100.00	116	15.5	
13C12-1,2,3,4,7,8-HxCDD	100.00	115	14.8	
13C12-1,2,3,6,7,8-HxCDD	100.00	119	18.9	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	121	20.6	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	111	11.3	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	111	11.0	
13C12-OCDD	200.00	217	8.5	
37Cl4-2,3,7,8-TCDD	10.000	10.5	5.3	



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**Client:** Anchor QEA, LLC

**Calibration:** FC00062

**Sequence:** SKC0306

**SDG:** 22L0246

**Project:** AOC4 UR Phase 3

**Laboratory ID:** SKC0306-SCV1

**Sequence Name:** ICVCH

**Standard ID:** G001361

\* Indicates values outside of QC limits



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**SDG:** 22L0246

**Client:** Anchor QEA, LLC

**Project:** AOC4 UR Phase 3

**Calibration:** GB00010

**Laboratory ID:** SLB0026-SCV1

**Sequence:** SLB0026

**Sequence Name:** ICVCR

**Standard ID:** H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,3,7,8-TCDF	10.000	9.80	-2.0	
2,3,7,8-TCDD	10.000	10.1	1.0	
1,2,3,7,8-PeCDF	50.000	49.4	-1.1	
2,3,4,7,8-PeCDF	50.000	50.7	1.4	
1,2,3,7,8-PeCDD	50.000	48.9	-2.2	
1,2,3,4,7,8-HxCDF	50.000	50.8	1.7	
1,2,3,6,7,8-HxCDF	50.000	51.1	2.1	
2,3,4,6,7,8-HxCDF	50.000	51.5	3.1	
1,2,3,7,8,9-HxCDF	50.000	49.9	-0.2	
1,2,3,4,7,8-HxCDD	50.000	51.0	2.0	
1,2,3,6,7,8-HxCDD	50.000	48.3	-3.4	
1,2,3,7,8,9-HxCDD	50.000	49.6	-0.8	
1,2,3,4,6,7,8-HpCDF	50.000	49.0	-2.0	
1,2,3,4,7,8,9-HpCDF	50.000	51.5	2.9	
1,2,3,4,6,7,8-HpCDD	50.000	48.8	-2.3	
OCDF	100.00	93.0	-7.0	
OCDD	100.00	95.8	-4.2	
13C12-2,3,7,8-TCDF	100.00	101	0.8	
13C12-2,3,7,8-TCDD	100.00	97.3	-2.7	
13C12-1,2,3,7,8-PeCDF	100.00	97.9	-2.1	
13C12-2,3,4,7,8-PeCDF	100.00	96.0	-4.0	
13C12-1,2,3,7,8-PeCDD	100.00	95.6	-4.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	99.0	-1.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.8	-1.2	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.3	-0.7	
13C12-1,2,3,7,8,9-HxCDF	100.00	98.6	-1.4	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,6,7,8-HxCDD	100.00	101	0.6	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	100	0.3	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	0.8	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	101	0.6	
13C12-OCDD	200.00	205	2.6	
37Cl4-2,3,7,8-TCDD	10.000	8.94	-10.6	



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**Client:** Anchor QEA, LLC

**Calibration:** GB00010

**Sequence:** SLB0026

**SDG:** 22L0246

**Project:** AOC4 UR Phase 3

**Laboratory ID:** SLB0026-SCV1

**Sequence Name:** ICVCR

**Standard ID:** H008219

\* Indicates values outside of QC limits



**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**SDG:** 22L0246

**Client:** Anchor QEA, LLC

**Project:** AOC4 UR Phase 3

**Calibration:** GC00015

**Laboratory ID:** SLC0045-SCV1

**Sequence:** SLC0045

**Sequence Name:** ICVCW

**Standard ID:** H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,3,7,8-TCDF	10.000	9.84	-1.6	
2,3,7,8-TCDD	10.000	9.81	-1.9	
1,2,3,7,8-PeCDF	50.000	51.4	2.8	
2,3,4,7,8-PeCDF	50.000	49.0	-2.0	
1,2,3,7,8-PeCDD	50.000	48.5	-2.9	
1,2,3,4,7,8-HxCDF	50.000	48.2	-3.5	
1,2,3,6,7,8-HxCDF	50.000	48.0	-4.0	
2,3,4,6,7,8-HxCDF	50.000	50.2	0.4	
1,2,3,7,8,9-HxCDF	50.000	49.1	-1.8	
1,2,3,4,7,8-HxCDD	50.000	50.8	1.6	
1,2,3,6,7,8-HxCDD	50.000	50.2	0.3	
1,2,3,7,8,9-HxCDD	50.000	51.6	3.2	
1,2,3,4,6,7,8-HpCDF	50.000	51.8	3.7	
1,2,3,4,7,8,9-HpCDF	50.000	48.5	-3.1	
1,2,3,4,6,7,8-HpCDD	50.000	49.2	-1.6	
OCDF	100.00	104	3.5	
OCDD	100.00	99.4	-0.6	
13C12-2,3,7,8-TCDF	100.00	96.9	-3.1	
13C12-2,3,7,8-TCDD	100.00	96.6	-3.4	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	-26.8	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	-24.1	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	-23.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	-7.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	-2.0	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	-6.6	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	-2.1	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	-4.1	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	2.1	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	4.0	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	2.5	
13C12-OCDD	200.00	162	-19.2	
37Cl4-2,3,7,8-TCDD	10.000	8.71	-12.9	





**SECOND-SOURCE CALIBRATION VERIFICATION**  
**EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**Client:** Anchor QEA, LLC

**Calibration:** GC00015

**Sequence:** SLC0045

**SDG:** 22L0246

**Project:** AOC4 UR Phase 3

**Laboratory ID:** SLC0045-SCV1

**Sequence Name:** ICVCW

**Standard ID:** H008219

\* Indicates values outside of QC limits



**SECOND-SOURCE  
CALIBRATION VERIFICATION**

**EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**SDG:** 22L0246

**Client:** Anchor QEA, LLC

**Project:** AOC4 UR Phase 3

**Calibration:** FC00062

**Laboratory ID:** SKC0306-SCV1

**Sequence:** SKC0306

**Standard ID:** G001361

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
OCDF	100.00	108	8.3	
OCDD	100.00	111	10.7	
13C12-2,3,7,8-TCDF	100.00	102	1.8	
13C12-2,3,7,8-TCDD	100.00	82.0	-18.0	
13C12-1,2,3,7,8-PeCDF	100.00	104	4.2	
13C12-2,3,4,7,8-PeCDF	100.00	107	7.2	
13C12-1,2,3,7,8-PeCDD	100.00	97.8	-2.2	
13C12-1,2,3,4,7,8-HxCDF	100.00	118	18.2	
13C12-1,2,3,6,7,8-HxCDF	100.00	123	23.4	
13C12-2,3,4,6,7,8-HxCDF	100.00	112	12.1	
13C12-1,2,3,7,8,9-HxCDF	100.00	116	15.5	
13C12-1,2,3,4,7,8-HxCDD	100.00	115	14.8	
13C12-1,2,3,6,7,8-HxCDD	100.00	119	18.9	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	121	20.6	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	111	11.3	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	111	11.0	
13C12-OCDD	200.00	217	8.5	
37Cl4-2,3,7,8-TCDD	10.000	10.5	5.3	

\* Values outside of QC limits



**SECOND-SOURCE  
CALIBRATION VERIFICATION  
EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**SDG:** 22L0246

**Client:** Anchor QEA, LLC

**Project:** AOC4 UR Phase 3

**Calibration:** GB00010

**Laboratory ID:** SLB0026-SCV1

**Sequence:** SLB0026

**Standard ID:** H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
OCDF	100.00	93.0	-7.0	
OCDD	100.00	95.8	-4.2	
13C12-2,3,7,8-TCDF	100.00	101	0.8	
13C12-2,3,7,8-TCDD	100.00	97.3	-2.7	
13C12-1,2,3,7,8-PeCDF	100.00	97.9	-2.1	
13C12-2,3,4,7,8-PeCDF	100.00	96.0	-4.0	
13C12-1,2,3,7,8-PeCDD	100.00	95.6	-4.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	99.0	-1.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.8	-1.2	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.3	-0.7	
13C12-1,2,3,7,8,9-HxCDF	100.00	98.6	-1.4	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,6,7,8-HxCDD	100.00	101	0.6	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	100	0.3	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	0.8	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	101	0.6	
13C12-OCDD	200.00	205	2.6	
37Cl4-2,3,7,8-TCDD	10.000	8.94	-10.6	

\* Values outside of QC limits



**SECOND-SOURCE  
CALIBRATION VERIFICATION**

**EPA 1613B**

**Laboratory:** Analytical Resources, LLC

**SDG:** 22L0246

**Client:** Anchor QEA, LLC

**Project:** AOC4 UR Phase 3

**Calibration:** GC00015

**Laboratory ID:** SLC0045-SCV1

**Sequence:** SLC0045

**Standard ID:** H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
OCDF	100.00	104	3.5	
OCDD	100.00	99.4	-0.6	
13C12-2,3,7,8-TCDF	100.00	96.9	-3.1	
13C12-2,3,7,8-TCDD	100.00	96.6	-3.4	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	-26.8	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	-24.1	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	-23.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	-7.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	-2.0	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	-6.6	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	-2.1	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	-4.1	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	2.1	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	4.0	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	2.5	
13C12-OCDD	200.00	162	-19.2	
37Cl4-2,3,7,8-TCDD	10.000	8.71	-12.9	

\* Values outside of QC limits



INITIAL CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: FC00062

Lab File ID: 22032302

Calibration Date: 03/23/2022

Sequence: SKC0306

Injection Date: 03/23/22

Lab Sample ID: SKC0306-ICV1

Injection Time: 09:30

Sequence Name: CS3H1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.96	0.9847005	0.9809363		-0.4	+/-16
2,3,7,8-TCDD	A	10.000	9.28	1.1678960	1.0833780		-7.2	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.5	0.9056077	0.8962046		-1.0	+/-18
2,3,4,7,8-PeCDF	A	50.000	49.2	1.0075470	0.9908089		-1.7	+/-18
1,2,3,7,8-PeCDD	A	50.000	49.4	1.1518210	1.1376960		-1.2	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.9	1.0453780	1.0438810		-0.1	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	53.7	1.0194580	1.0954640		7.5	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	48.6	1.1009420	1.0707640		-2.7	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.4	0.9922439	0.9414101		-5.1	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.9	0.9339489	0.9506789		1.8	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	50.3	0.9503637	0.9557980		0.6	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	50.6	0.8735404	0.8833196		1.2	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	49.4	1.2432150	1.2292090		-1.1	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	54.1	1.1920880	1.2904670		8.3	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.2	1.2681100	1.1964240		-5.7	+/-14
OCDF	A	100.00	94.5	1.3028850	1.2317270		-5.5	+/-37
OCDD	A	100.00	93.7	1.0892710	1.0202670		-6.3	+/-21
13C12-2,3,7,8-TCDF	A	100.00	95.8	1.7513890	1.6775571		-4.2	+/-29
13C12-2,3,7,8-TCDD	A	100.00	104	1.0814050	1.1218933		3.7	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	96.3	1.4417600	1.3890290		-3.7	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	95.7	1.3657630	1.3070074		-4.3	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	100	0.7763790	0.7764987		0.02	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	93.1	1.0947840	1.0188414		-6.9	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	90.8	1.1676720	1.0599392		-9.2	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	92.7	1.0228740	0.9477137		-7.3	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	101	0.8787479	0.8903158		1.3	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	96.1	0.9749220	0.9371180		-3.9	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	95.7	1.0665120	1.0210363		-4.3	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	94.8	0.9254863	0.8777404		-5.2	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	96.4	0.7148797	0.6888273		-3.6	+/-23

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>FC00062</u>
Lab File ID:	<u>22032302</u>	Calibration Date:	<u>03/23/2022</u>
Sequence:	<u>SKC0306</u>	Injection Date:	<u>03/23/22</u>
Lab Sample ID:	<u>SKC0306-ICV1</u>	Injection Time:	<u>09:30</u>
Sequence Name:	<u>CS3H1</u>		

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	104	0.5816149	0.6064523		4.3	+/-28
13C12-OCDD	A	200.00	208	0.5085582	0.5280985		3.8	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.59	1.1201030	1.0736877		-4.1	

\* Values outside of QC limits



INITIAL CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: FC00062

Lab File ID: 22122802

Calibration Date: 03/23/2022

Sequence: SKL0339

Injection Date: 12/28/22

Lab Sample ID: SKL0339-ICV1

Injection Time: 11:32

Sequence Name: CS3P1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.01	0.9847005	0.8871667		-9.9	+/-16
2,3,7,8-TCDD	A	10.000	9.51	1.1678960	1.1107390		-4.9	+/-22
1,2,3,7,8-PeCDF	A	50.000	47.6	0.9056077	0.8618861		-4.8	+/-18
2,3,4,7,8-PeCDF	A	50.000	46.9	1.0075470	0.9446966		-6.2	+/-18
1,2,3,7,8-PeCDD	A	50.000	51.4	1.1518210	1.1849580		2.9	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	50.7	1.0453780	1.0595040		1.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	55.0	1.0194580	1.1215300		10.0	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	49.3	1.1009420	1.0854230		-1.4	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	50.9	0.9922439	1.0110560		1.9	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.6	0.9339489	0.9442457		1.1	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.7	0.9503637	0.9833128		3.5	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	50.2	0.8735404	0.8767507		0.4	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.0	1.2432150	1.1680140		-6.0	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	49.4	1.1920880	1.1785380		-1.1	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.6	1.2681100	1.2083530		-4.7	+/-14
OCDF	A	100.00	84.3	1.3028850	1.0978610		-15.7	+/-37
OCDD	A	100.00	101	1.0892710	1.0952820		0.6	+/-21
13C12-2,3,7,8-TCDF	A	100.00	83.0	1.7513890	1.4534661		-17.0	+/-29
13C12-2,3,7,8-TCDD	A	100.00	98.4	1.0814050	1.0639081		-1.6	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	83.8	1.4417600	1.2079707		-16.2	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	83.3	1.3657630	1.1382644		-16.7	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	88.3	0.7763790	0.6853438		-11.7	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	101	1.0947840	1.1103700		1.4	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	101	1.1676720	1.1799737		1.1	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	102	1.0228740	1.0459740		2.3	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	99.4	0.8787479	0.8730421		-0.6	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	99.7	0.9749220	0.9722593		-0.3	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	95.7	1.0665120	1.0209864		-4.3	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	95.2	0.9254863	0.8812020		-4.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	93.2	0.7148797	0.6663696		-6.8	+/-23

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>FC00062</u>
Lab File ID:	<u>22122802</u>	Calibration Date:	<u>03/23/2022</u>
Sequence:	<u>SKL0339</u>	Injection Date:	<u>12/28/22</u>
Lab Sample ID:	<u>SKL0339-ICV1</u>	Injection Time:	<u>11:32</u>
Sequence Name:	<u>CS3P1</u>		

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	113	0.5816149	0.6558580		12.8	+/-28
13C12-OCDD	A	200.00	220	0.5085582	0.5606249		10.2	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.22	1.1201030	1.0323919		-7.8	

\* Values outside of QC limits



Dataset: T:\Autospec\Processed Data Batch\221228D1.qld  
 Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time  
 Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
 Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.048	1.001	3.108e4	3.991e4	0.985	0.779	0.770	1005	1758	4.36e5	5.71e5	434.1	325.1	NO	bd	bb	9.010
12378-PeCDF	30.216	1.001	1.739e5	1.127e5	0.906	1.543	1.550	2545	2097	2.48e6	1.60e6	976.3	761.2	NO	bd	bd	47.586
23478-PeCDF	31.553	1.000	1.815e5	1.145e5	1.008	1.584	1.550	2545	2097	2.56e6	1.65e6	1006.6	785.1	NO	bd	bb	46.881
123478-HxCDF	35.162	1.000	1.449e5	1.181e5	1.045	1.227	1.240	1991	1984	2.28e6	1.80e6	1144.1	905.5	NO	bd	bd	50.676
234678-HxCDF	36.165	1.001	1.440e5	1.098e5	1.101	1.312	1.240	1991	1984	2.11e6	1.67e6	1060.2	844.2	NO	bd	bb	49.295
123678-HxCDF	35.307	1.001	1.632e5	1.327e5	1.019	1.230	1.240	1991	1984	2.30e6	1.83e6	1154.4	923.0	NO	db	dd	55.006
123789-HxCDF	37.190	1.001	1.069e5	9.043e4	0.992	1.182	1.240	1991	1984	1.60e6	1.24e6	805.3	622.8	NO	bb	bd	50.948
1234678-HpCDF	39.017	1.000	1.163e5	1.138e5	1.243	1.023	1.050	1955	1640	1.65e6	1.65e6	844.5	1005.9	NO	bd	bd	46.976
1234789-HpCDF	41.301	1.001	8.761e4	8.797e4	1.192	0.996	1.050	1955	1640	1.08e6	1.11e6	550.5	679.5	NO	bd	bd	49.432
OCDF	45.604	1.006	1.319e5	1.433e5	1.303	0.921	0.890	1293	1529	1.38e6	1.51e6	1068.1	985.7	NO	bd	bd	84.264
2378-TCDD	26.683	1.001	2.907e4	3.599e4	1.168	0.808	0.770	1491	1265	4.37e5	5.38e5	292.9	424.9	NO	bb	bb	9.511
12378-PeCDD	31.809	1.001	1.333e5	9.021e4	1.152	1.478	1.550	2134	2231	1.97e6	1.29e6	924.0	578.4	NO	bb	bd	51.438
123478-HxCDD	36.277	1.000	1.135e5	9.178e4	0.934	1.236	1.240	1825	1627	1.86e6	1.49e6	1021.3	913.0	NO	bd	bd	50.551
123678-HxCDD	36.388	1.000	1.248e5	9.960e4	0.950	1.254	1.240	1825	1627	1.95e6	1.54e6	1070.9	949.2	NO	db	db	51.734
123789-HxCDD	36.778	1.011	1.079e5	8.741e4	0.873	1.235	1.240	1825	1627	1.72e6	1.42e6	942.7	872.8	NO	bb	bb	50.208
1234678-HpCDD	40.544	1.001	9.073e4	8.644e4	1.268	1.050	1.050	1713	1785	1.28e6	1.20e6	746.8	672.5	NO	bd	bd	47.644
OCDD	45.366	1.000	1.294e5	1.452e5	1.089	0.891	0.890	1329	1513	1.35e6	1.53e6	1015.8	1012.2	NO	bd	bd	100.552
13C-2378-TCDF	26.033	1.007	3.447e5	4.554e5	1.751	0.757	0.770	2721	2370	5.13e6	6.70e6	1884.4	2828.5	NO	bb	bb	82.989
13C-12378-PeCDF	30.193	1.168	4.041e5	2.608e5	1.442	1.549	1.550	2848	2433	6.04e6	3.89e6	2122.0	1597.6	NO	bb	bb	83.784
13C-23478-PeCDF	31.542	1.220	3.814e5	2.452e5	1.366	1.555	1.550	2848	2433	5.62e6	3.59e6	1974.7	1475.6	NO	bb	bb	83.343
13C-123478-HxCDF	35.151	0.956	1.634e5	3.331e5	1.095	0.490	0.510	2305	3391	2.58e6	5.23e6	1117.4	1543.2	NO	bd	bd	101.424
13C-123678-HxCDF	35.285	0.960	1.755e5	3.521e5	1.168	0.498	0.510	2305	3391	2.69e6	5.37e6	1168.6	1583.9	NO	db	db	101.053
13C-234678-HxCDF	36.143	0.983	1.554e5	3.123e5	1.023	0.498	0.510	2305	3391	2.40e6	4.77e6	1040.8	1406.6	NO	bb	bb	102.258
13C-123789-HxCDF	37.168	1.011	1.308e5	2.595e5	0.879	0.504	0.510	2305	3391	1.96e6	3.92e6	852.3	1156.1	NO	bb	bb	99.351
13C-1234678-HpCDF	39.006	1.061	1.189e5	2.751e5	0.925	0.432	0.440	1370	2312	1.93e6	4.44e6	1407.6	1920.9	NO	bb	bb	95.215
13C-1234789-HpCDF	41.279	1.123	9.210e4	2.059e5	0.715	0.447	0.440	1370	2312	1.26e6	2.85e6	922.8	1233.8	NO	bb	bb	93.214
13C-1234-TCDD	25.851	0.000	2.404e5	3.101e5	1.000	0.775	0.770	2554	1585	3.67e6	4.64e6	1435.4	2930.7	NO	bb	bb	100.000
13C-2378-TCDD	26.668	1.032	2.530e5	3.327e5	1.081	0.761	0.770	2554	1585	3.79e6	4.98e6	1484.3	3142.1	NO	bb	bb	98.382
13C-12378-PeCDD	31.787	1.230	2.349e5	1.424e5	0.776	1.650	1.550	1021	1085	3.46e6	2.10e6	3388.3	1936.7	NO	bb	bb	88.274
13C-123478-HxCDD	36.265	0.986	2.422e5	1.925e5	0.975	1.258	1.240	2658	1874	3.82e6	3.01e6	1438.7	1605.8	NO	bd	bd	99.727
13C-123678-HxCDD	36.377	0.989	2.519e5	2.046e5	1.067	1.231	1.240	2658	1874	3.98e6	3.18e6	1496.6	1697.7	NO	db	db	95.731
13C-1234678-HpCDD	40.521	1.102	1.526e5	1.406e5	0.582	1.086	1.050	1409	1438	2.21e6	2.07e6	1570.5	1441.3	NO	bb	bb	112.765
13C-OCDD	45.347	1.233	2.387e5	2.626e5	0.509	0.909	0.890	2098	1422	2.75e6	3.00e6	1309.5	2111.2	NO	bb	bb	220.476
13C-123789-HxCDD	36.767	0.000	2.462e5	2.009e5	1.000	1.225	1.240	2658	1874	3.65e6	2.87e6	1374.0	1530.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.683	1.032	5.683e4		1.120			2451		8.40e5		342.6			bb		9.217

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld  
 Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time  
 Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.525	0.865	3.991e4	5.485e4	1.300	0.728	0.770	1005	1758	6.17e5	8.42e5	614.3	479.0	NO	bb	dd	9.108
1289-TCDF	27.545	1.058	2.885e4	3.964e4	0.931	0.728	0.770	1005	1758	3.95e5	5.67e5	393.2	322.6	NO	dd	dd	9.190
13468-PECDF	27.394	0.907	2.706e5	1.844e5	1.308	1.467	1.550	932	1336	4.13e6	2.81e6	4434.7	2106.0	NO	bb	bb	52.300
12389-PECDF	32.600	1.080	1.652e5	1.015e5	0.860	1.628	1.550	2545	2097	2.19e6	1.35e6	859.9	643.6	NO	bd	bd	46.622
123468-HXCDF	33.514	0.953	1.602e5	1.264e5	1.156	1.267	1.240	1991	1984	2.33e6	1.88e6	1170.1	946.6	NO	bd	bb	49.930
1368-TCDD	23.795	0.892	3.194e4	3.859e4	1.151	0.828	0.770	1491	1265	4.97e5	5.97e5	333.7	471.6	NO	bb	bb	10.463
1289-TCDD	27.288	1.023	2.685e4	3.341e4	0.950	0.804	0.770	1491	1265	3.82e5	4.62e5	256.1	365.0	NO	bd	bb	10.832
12479-PECDD	29.079	0.915	2.609e5	1.631e5	2.164	1.599	1.550	2134	2231	2.40e6	1.56e6	1126.9	697.6	NO	bb	bb	51.927
12389-PECDD	32.210	1.013	1.621e5	1.001e5	1.371	1.619	1.550	2134	2231	2.18e6	1.40e6	1019.9	629.6	NO	bd	bb	50.706
124679-HXCDD	34.271	0.945	1.322e5	1.088e5	1.153	1.215	1.240	1825	1627	2.06e6	1.70e6	1127.7	1045.3	NO	bb	bb	48.090
1234679-HPCDD	39.474	0.974	1.075e5	1.020e5	1.473	1.054	1.050	1713	1785	1.57e6	1.52e6	914.3	852.1	NO	bd	bd	48.481
Total-tetrafurans			1.005e5		1.072			1005		1.46e6							27.466
Total-penta1			2.706e5					932		4.13e6							52.300
Total-pentafurans			5.513e5		0.924			2545		7.67e6							149.368
Total-hexafurans			7.195e5		1.063			1991		1.06e7							255.938
Total-heptafurans			2.039e5		1.218			1955		2.73e6							96.407
Total-Furans			1.978e6		1.090			1005		2.80e7							665.743
Total-tetradoxins			1.479e5		1.090			1491		2.00e6							51.959
Total-pentadoxins			5.569e5		1.562			2134		6.56e6							154.238
Total-hexadoxins			4.787e5		0.978			1825		7.61e6							200.701
Total-heptadoxins			1.982e5		1.371			1713		2.85e6							96.125
Total-Dioxins			1.511e6		1.207			1491		2.04e7							603.574
Total-TEQ			3.489e6					1491		4.84e7							1269.317
FUNCTION1 PFK			2.528e6					417343		3.85e7							
FUNCTION2 PFK			2.962e5					361236		8.95e6							0.000
FUNCTION3 PFK			4.510e5					315534		1.33e7							0.000
FUNCTION4 PFK			4.746e4					223242		4.46e5							
FUNCTION5 PFK			4.073e4					166934		1.48e6							
FUNCTION1 HXCD...			2.298e3					873		2.96e4							0.000
FUNCTION1 HPCD...			1.996e3					778		3.06e4							0.000
FUNCTION2 HPCD...			4.092e2					932		9.04e3							0.000
FUNCTION3 OCDPE			3.552e2					907		7.02e3							0.000
FUNCTION4 NCDPE			1.698e2					857		2.66e3							0.000
FUNCTION5 DCDPE			0.000e0					655		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.54	2.885e4	3.964e4	0.931	0.73	0.77	393.2	YES	NO	dd	dd	9.190
2	Total-tetrafurans	27.41	6.286e2	7.255e2	1.072	0.87	0.77	8.9	YES	NO	bd	bd	0.158
3	2378-TCDF	26.05	3.108e4	3.991e4	0.985	0.78	0.77	434.1	YES	NO	bd	bb	9.010
4	1368-TCDF	22.53	3.991e4	5.485e4	1.300	0.73	0.77	614.3	YES	NO	bb	dd	9.108

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDFF	27.39	2.706e5	1.844e5	1.308	1.47	1.55	4434.7	YES	NO	bb	bb	52.300

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	30.22	1.739e5	1.127e5	0.906	1.54	1.55	976.3	YES	NO	bd	bd	47.586
2	Total-pentafurans	29.06	3.072e4	1.870e4	0.924	1.64	1.55	172.1	YES	NO	bd	bb	8.279
3	12389-PECDF	32.60	1.652e5	1.015e5	0.860	1.63	1.55	859.9	YES	NO	bd	bd	46.622
4	23478-PeCDF	31.55	1.815e5	1.145e5	1.008	1.58	1.55	1006.6	YES	NO	bd	bb	46.881

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.19	1.069e5	9.043e4	0.992	1.18	1.24	805.3	YES	NO	bb	bd	50.948
2	Total-hexafurans	36.52	2.406e2	1.754e2	1.063	1.37	1.24	3.7	NO	NO	db	bb	0.083
3	234678-HxCDF	36.17	1.440e5	1.098e5	1.101	1.31	1.24	1060.2	YES	NO	bd	bb	49.295
4	123678-HxCDF	35.31	1.632e5	1.327e5	1.019	1.23	1.24	1154.4	YES	NO	db	dd	55.006
5	123478-HxCDF	35.16	1.449e5	1.181e5	1.045	1.23	1.24	1144.1	YES	NO	bd	bd	50.676
6	123468-HXCDF	33.51	1.602e5	1.264e5	1.156	1.27	1.24	1170.1	YES	NO	bd	bb	49.930

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.30	8.761e4	8.797e4	1.192	1.00	1.05	550.5	YES	NO	bd	bd	49.432
2	1234678-HpCDF	39.02	1.163e5	1.138e5	1.243	1.02	1.05	844.5	YES	NO	bd	bd	46.976

**Quantify Totals Report MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

**ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.54	2.885e4	3.964e4	0.931	0.73	0.77	393.2	YES	NO	dd	dd	9.190
2	Total-tetrafurans	27.41	6.286e2	7.255e2	1.072	0.87	0.77	8.9	YES	NO	bd	bd	0.158
3	2378-TCDF	26.05	3.108e4	3.991e4	0.985	0.78	0.77	434.1	YES	NO	bd	bb	9.010
4	1368-TCDF	22.53	3.991e4	5.485e4	1.300	0.73	0.77	614.3	YES	NO	bb	dd	9.108
5	12378-PeCDF	30.22	1.739e5	1.127e5	0.906	1.54	1.55	976.3	YES	NO	bd	bd	47.586
6	Total-pentafurans	29.06	3.072e4	1.870e4	0.924	1.64	1.55	172.1	YES	NO	bd	bb	8.279
7	12389-PECDF	32.60	1.652e5	1.015e5	0.860	1.63	1.55	859.9	YES	NO	bd	bd	46.622
8	23478-PeCDF	31.55	1.815e5	1.145e5	1.008	1.58	1.55	1006.6	YES	NO	bd	bb	46.881
9	123789-HxCDF	37.19	1.069e5	9.043e4	0.992	1.18	1.24	805.3	YES	NO	bb	bd	50.948
10	Total-hexafurans	36.52	2.406e2	1.754e2	1.063	1.37	1.24	3.7	NO	NO	db	bb	0.083
11	234678-HxCDF	36.17	1.440e5	1.098e5	1.101	1.31	1.24	1060.2	YES	NO	bd	bb	49.295
12	123678-HxCDF	35.31	1.632e5	1.327e5	1.019	1.23	1.24	1154.4	YES	NO	db	dd	55.006
13	123478-HxCDF	35.16	1.449e5	1.181e5	1.045	1.23	1.24	1144.1	YES	NO	bd	bd	50.676
14	123468-HXCDF	33.51	1.602e5	1.264e5	1.156	1.27	1.24	1170.1	YES	NO	bd	bb	49.930
15	1234789-HpCDF	41.30	8.761e4	8.797e4	1.192	1.00	1.05	550.5	YES	NO	bd	bd	49.432
16	1234678-HpCDF	39.02	1.163e5	1.138e5	1.243	1.02	1.05	844.5	YES	NO	bd	bd	46.976
17	OCDF	45.60	1.319e5	1.433e5	1.303	0.92	0.89	1068.1	YES	NO	bd	bd	84.264
18	13468-PECDF	27.39	2.706e5	1.844e5	1.308	1.47	1.55	4434.7	YES	NO	bb	bb	52.300

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.29	2.685e4	3.341e4	0.950	0.80	0.77	256.1	YES	NO	bd	bb	10.832
2	2378-TCDD	26.68	2.907e4	3.599e4	1.168	0.81	0.77	292.9	YES	NO	bb	bb	9.511
3	Total-tetradoxins	26.37	4.592e4	5.697e4	1.090	0.81	0.77	312.1	YES	NO	bd	bb	16.124
4	Total-tetradoxins	25.87	1.414e4	1.796e4	1.090	0.79	0.77	148.8	YES	NO	bb	bb	5.030
5	1368-TCDD	23.80	3.194e4	3.859e4	1.151	0.83	0.77	333.7	YES	NO	bb	bb	10.463

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.21	1.621e5	1.001e5	1.371	1.62	1.55	1019.9	YES	NO	bd	bb	50.706
2	12378-PeCDD	31.81	1.333e5	9.021e4	1.152	1.48	1.55	924.0	YES	NO	bb	bd	51.438
3	Total-pentadoxins	31.13	6.109e2	3.694e2	1.562	1.65	1.55	4.7	YES	NO	bb	bb	0.166
4	12479-PECDD	29.08	2.609e5	1.631e5	2.164	1.60	1.55	1126.9	YES	NO	bb	bb	51.927

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

**ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk****HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.39	1.248e5	9.960e4	0.950	1.25	1.24	1070.9	YES	NO	db	db	51.734
2	123478-HxCDD	36.28	1.135e5	9.178e4	0.934	1.24	1.24	1021.3	YES	NO	bd	bd	50.551
3	124679-HxCDD	34.27	1.322e5	1.088e5	1.153	1.22	1.24	1127.7	YES	NO	bb	bb	48.090
4	Total-hexadioxins	37.16	2.773e2	2.387e2	0.978	1.16	1.24	4.5	YES	NO	bb	bd	0.118
5	123789-HxCDD	36.78	1.079e5	8.741e4	0.873	1.23	1.24	942.7	YES	NO	bb	bb	50.208

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.54	9.073e4	8.644e4	1.268	1.05	1.05	746.8	YES	NO	bd	bd	47.644
2	1234679-HPCDD	39.47	1.075e5	1.020e5	1.473	1.05	1.05	914.3	YES	NO	bd	bd	48.481

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.29	2.685e4	3.341e4	0.950	0.80	0.77	256.1	YES	NO	bd	bb	10.832
2	2378-TCDD	26.68	2.907e4	3.599e4	1.168	0.81	0.77	292.9	YES	NO	bb	bb	9.511
3	Total-tetradioxins	26.37	4.592e4	5.697e4	1.090	0.81	0.77	312.1	YES	NO	bd	bb	16.124
4	Total-tetradioxins	25.87	1.414e4	1.796e4	1.090	0.79	0.77	148.8	YES	NO	bb	bb	5.030
5	1368-TCDD	23.80	3.194e4	3.859e4	1.151	0.83	0.77	333.7	YES	NO	bb	bb	10.463
6	12389-PECDD	32.21	1.621e5	1.001e5	1.371	1.62	1.55	1019.9	YES	NO	bd	bb	50.706
7	12378-PeCDD	31.81	1.333e5	9.021e4	1.152	1.48	1.55	924.0	YES	NO	bb	bd	51.438
8	Total-pentadioxins	31.13	6.109e2	3.694e2	1.562	1.65	1.55	4.7	YES	NO	bb	bb	0.166
9	12479-PECDD	29.08	2.609e5	1.631e5	2.164	1.60	1.55	1126.9	YES	NO	bb	bb	51.927
10	123678-HxCDD	36.39	1.248e5	9.960e4	0.950	1.25	1.24	1070.9	YES	NO	db	db	51.734
11	123478-HxCDD	36.28	1.135e5	9.178e4	0.934	1.24	1.24	1021.3	YES	NO	bd	bd	50.551
12	124679-HxCDD	34.27	1.322e5	1.088e5	1.153	1.22	1.24	1127.7	YES	NO	bb	bb	48.090
13	Total-hexadioxins	37.16	2.773e2	2.387e2	0.978	1.16	1.24	4.5	YES	NO	bb	bd	0.118
14	123789-HxCDD	36.78	1.079e5	8.741e4	0.873	1.23	1.24	942.7	YES	NO	bb	bb	50.208
15	1234678-HpCDD	40.54	9.073e4	8.644e4	1.268	1.05	1.05	746.8	YES	NO	bd	bd	47.644
16	1234679-HPCDD	39.47	1.075e5	1.020e5	1.473	1.05	1.05	914.3	YES	NO	bd	bd	48.481
17	OCDD	45.37	1.294e5	1.452e5	1.089	0.89	0.89	1015.8	YES	NO	bd	bd	100.552

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.54	2.885e4	3.964e4	0.931	0.73	0.77	393.2	YES	NO	dd	dd	9.190
2	Total-tetrafurans	27.41	6.286e2	7.255e2	1.072	0.87	0.77	8.9	YES	NO	bd	bd	0.158
3	2378-TCDF	26.05	3.108e4	3.991e4	0.985	0.78	0.77	434.1	YES	NO	bd	bb	9.010
4	1368-TCDF	22.53	3.991e4	5.485e4	1.300	0.73	0.77	614.3	YES	NO	bb	dd	9.108
5	12378-PeCDF	30.22	1.739e5	1.127e5	0.906	1.54	1.55	976.3	YES	NO	bd	bd	47.586
6	Total-pentafurans	29.06	3.072e4	1.870e4	0.924	1.64	1.55	172.1	YES	NO	bd	bb	8.279
7	12389-PECDF	32.60	1.652e5	1.015e5	0.860	1.63	1.55	859.9	YES	NO	bd	bd	46.622
8	23478-PeCDF	31.55	1.815e5	1.145e5	1.008	1.58	1.55	1006.6	YES	NO	bd	bb	46.881
9	123789-HxCDF	37.19	1.069e5	9.043e4	0.992	1.18	1.24	805.3	YES	NO	bb	bd	50.948
10	Total-hexafurans	36.52	2.406e2	1.754e2	1.063	1.37	1.24	3.7	NO	NO	db	bb	0.083
11	234678-HxCDF	36.17	1.440e5	1.098e5	1.101	1.31	1.24	1060.2	YES	NO	bd	bb	49.295
12	123678-HxCDF	35.31	1.632e5	1.327e5	1.019	1.23	1.24	1154.4	YES	NO	db	dd	55.006
13	123478-HxCDF	35.16	1.449e5	1.181e5	1.045	1.23	1.24	1144.1	YES	NO	bd	bd	50.676
14	123468-HXCDF	33.51	1.602e5	1.264e5	1.156	1.27	1.24	1170.1	YES	NO	bd	bb	49.930
15	1234789-HpCDF	41.30	8.761e4	8.797e4	1.192	1.00	1.05	550.5	YES	NO	bd	bd	49.432
16	1234678-HpCDF	39.02	1.163e5	1.138e5	1.243	1.02	1.05	844.5	YES	NO	bd	bd	46.976
17	OCDF	45.60	1.319e5	1.433e5	1.303	0.92	0.89	1068.1	YES	NO	bd	bd	84.264
18	13468-PECDF	27.39	2.706e5	1.844e5	1.308	1.47	1.55	4434.7	YES	NO	bb	bb	52.300
19	1289-TCDD	27.29	2.685e4	3.341e4	0.950	0.80	0.77	256.1	YES	NO	bd	bb	10.832
20	2378-TCDD	26.68	2.907e4	3.599e4	1.168	0.81	0.77	292.9	YES	NO	bb	bb	9.511
21	Total-tetradiioxins	26.37	4.592e4	5.697e4	1.090	0.81	0.77	312.1	YES	NO	bd	bb	16.124
22	Total-tetradiioxins	25.87	1.414e4	1.796e4	1.090	0.79	0.77	148.8	YES	NO	bb	bb	5.030
23	1368-TCDD	23.80	3.194e4	3.859e4	1.151	0.83	0.77	333.7	YES	NO	bb	bb	10.463
24	12389-PECDD	32.21	1.621e5	1.001e5	1.371	1.62	1.55	1019.9	YES	NO	bd	bb	50.706
25	12378-PeCDD	31.81	1.333e5	9.021e4	1.152	1.48	1.55	924.0	YES	NO	bb	bd	51.438
26	Total-pentadiioxins	31.13	6.109e2	3.694e2	1.562	1.65	1.55	4.7	YES	NO	bb	bb	0.166
27	12479-PECDD	29.08	2.609e5	1.631e5	2.164	1.60	1.55	1126.9	YES	NO	bb	bb	51.927
28	123678-HxCDD	36.39	1.248e5	9.960e4	0.950	1.25	1.24	1070.9	YES	NO	db	db	51.734
29	123478-HxCDD	36.28	1.135e5	9.178e4	0.934	1.24	1.24	1021.3	YES	NO	bd	bd	50.551
30	124679-HXCDD	34.27	1.322e5	1.088e5	1.153	1.22	1.24	1127.7	YES	NO	bb	bb	48.090
31	Total-hexadiioxins	37.16	2.773e2	2.387e2	0.978	1.16	1.24	4.5	YES	NO	bb	bd	0.118
32	123789-HxCDD	36.78	1.079e5	8.741e4	0.873	1.23	1.24	942.7	YES	NO	bb	bb	50.208
33	1234678-HpCDD	40.54	9.073e4	8.644e4	1.268	1.05	1.05	746.8	YES	NO	bd	bd	47.644
34	1234679-HPCDD	39.47	1.075e5	1.020e5	1.473	1.05	1.05	914.3	YES	NO	bd	bd	48.481
35	OCDD	45.37	1.294e5	1.452e5	1.089	0.89	0.89	1015.8	YES	NO	bd	bd	100.552

**Quantify Totals Report MassLynx V4.1 SCN909**

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**ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.60	4.455e4					2.5	NO		dd		
2	FUNCTION1 PFK	21.56	7.982e4					2.4	NO		dd		
3	FUNCTION1 PFK	21.48	3.392e4					2.0	NO		dd		
4	FUNCTION1 PFK	21.33	1.598e5					2.8	NO		bd		
5	FUNCTION1 PFK	23.01	3.301e3					0.4	NO		db		
6	FUNCTION1 PFK	22.92	2.019e4					0.8	NO		bd		
7	FUNCTION1 PFK	22.86	2.105e4					1.3	NO		db		
8	FUNCTION1 PFK	22.80	1.785e4					1.0	NO		bd		
9	FUNCTION1 PFK	22.72	2.002e4					1.5	NO		db		
10	FUNCTION1 PFK	22.68	5.177e4					2.1	NO		dd		
11	FUNCTION1 PFK	22.60	3.970e4					1.6	NO		bd		
12	FUNCTION1 PFK	22.46	2.662e4					1.4	NO		db		
13	FUNCTION1 PFK	22.37	3.759e4					1.5	NO		dd		
14	FUNCTION1 PFK	22.31	5.560e4					1.7	NO		dd		
15	FUNCTION1 PFK	22.18	5.920e4					1.6	NO		bd		
16	FUNCTION1 PFK	21.95	5.410e4					2.1	NO		db		
17	FUNCTION1 PFK	21.89	3.308e4					2.0	NO		dd		
18	FUNCTION1 PFK	21.81	9.945e4					3.1	YES		dd		
19	FUNCTION1 PFK	21.74	6.489e4					2.5	NO		dd		
20	FUNCTION1 PFK	21.66	5.943e4					2.7	NO		dd		
21	FUNCTION1 PFK	24.66	1.099e5					2.5	NO		dd		
22	FUNCTION1 PFK	24.60	5.235e4					2.3	NO		dd		
23	FUNCTION1 PFK	24.52	2.246e4					1.7	NO		dd		
24	FUNCTION1 PFK	24.45	6.656e4					1.8	NO		bd		
25	FUNCTION1 PFK	24.32	1.133e5					2.6	NO		db		
26	FUNCTION1 PFK	24.17	5.310e4					1.8	NO		dd		
27	FUNCTION1 PFK	24.05	4.191e4					1.9	NO		dd		
28	FUNCTION1 PFK	24.01	2.357e4					1.8	NO		dd		
29	FUNCTION1 PFK	23.93	4.573e4					2.0	NO		dd		
30	FUNCTION1 PFK	23.87	3.389e4					1.5	NO		dd		
31	FUNCTION1 PFK	23.83	1.554e4					1.2	NO		bd		
32	FUNCTION1 PFK	23.75	1.602e4					1.1	NO		bb		
33	FUNCTION1 PFK	23.66	3.569e4					1.9	NO		db		
34	FUNCTION1 PFK	23.60	9.000e3					0.7	NO		bd		
35	FUNCTION1 PFK	23.43	5.895e3					0.5	NO		bb		
36	FUNCTION1 PFK	23.10	2.677e4					1.4	NO		bb		
37	FUNCTION1 PFK	27.05	2.141e4					1.0	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	26.80	3.000e4					1.7	NO		db		
39	FUNCTION1 PFK	26.70	6.472e4					1.9	NO		dd		
40	FUNCTION1 PFK	26.64	2.991e4					1.6	NO		bd		
41	FUNCTION1 PFK	26.52	5.238e3					0.5	NO		bb		
42	FUNCTION1 PFK	26.11	5.906e3					0.5	NO		bb		
43	FUNCTION1 PFK	25.96	4.572e4					2.0	NO		db		
44	FUNCTION1 PFK	25.87	1.730e5					2.4	NO		dd		
45	FUNCTION1 PFK	25.61	2.617e4					1.4	NO		dd		
46	FUNCTION1 PFK	25.56	9.022e3					0.7	NO		dd		
47	FUNCTION1 PFK	25.46	4.798e4					1.5	NO		dd		
48	FUNCTION1 PFK	25.29	7.629e4					2.2	NO		dd		
49	FUNCTION1 PFK	25.22	4.492e4					1.4	NO		dd		
50	FUNCTION1 PFK	25.11	4.763e4					1.5	NO		dd		
51	FUNCTION1 PFK	25.00	3.021e4					1.4	NO		dd		
52	FUNCTION1 PFK	24.81	1.230e5					2.1	NO		dd		
53	FUNCTION1 PFK	28.16	1.850e4					0.9	NO		bb		
54	FUNCTION1 PFK	28.06	1.429e4					0.7	NO		bb		
55	FUNCTION1 PFK	27.65	1.720e4					1.1	NO		db		
56	FUNCTION1 PFK	27.61	2.260e4					1.1	NO		dd		
57	FUNCTION1 PFK	27.53	2.045e4					0.9	NO		bd		



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk****PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.95	1.325e4					1.1	NO		bb		0.000
2	FUNCTION2 PFK	29.74	1.453e4					1.1	NO		db		0.000
3	FUNCTION2 PFK	29.68	1.956e4					2.0	NO		bd		0.000
4	FUNCTION2 PFK	29.63	5.141e3					0.7	NO		bb		0.000
5	FUNCTION2 PFK	29.58	9.841e3					1.1	NO		bb		0.000
6	FUNCTION2 PFK	29.34	1.662e4					1.5	NO		bb		0.000
7	FUNCTION2 PFK	29.05	5.848e3					0.9	NO		bb		0.000
8	FUNCTION2 PFK	28.91	2.066e4					1.4	NO		bb		0.000
9	FUNCTION2 PFK	28.49	4.088e4					1.1	NO		bb		0.000
10	FUNCTION2 PFK	28.35	7.636e3					1.0	NO		bb		0.000
11	FUNCTION2 PFK	32.92	2.016e4					1.2	NO		bb		0.000
12	FUNCTION2 PFK	32.47	4.304e3					0.7	NO		db		0.000
13	FUNCTION2 PFK	32.43	1.405e4					1.4	NO		bd		0.000
14	FUNCTION2 PFK	32.37	1.663e4					0.9	NO		bb		0.000
15	FUNCTION2 PFK	32.14	7.086e3					0.8	NO		bb		0.000
16	FUNCTION2 PFK	31.90	1.408e4					1.3	NO		db		0.000
17	FUNCTION2 PFK	31.85	5.710e3					0.8	NO		bd		0.000
18	FUNCTION2 PFK	31.82	1.655e3					0.4	NO		bb		0.000
19	FUNCTION2 PFK	31.05	1.239e4					1.1	NO		bb		0.000
20	FUNCTION2 PFK	30.92	3.077e3					0.8	NO		bb		0.000
21	FUNCTION2 PFK	30.58	1.648e4					1.3	NO		bb		0.000
22	FUNCTION2 PFK	30.43	1.892e4					1.1	NO		bb		0.000
23	FUNCTION2 PFK	30.24	7.650e3					1.0	NO		bb		0.000

**Quantify Totals Report MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

**ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.18	5.360e3					1.0	NO		db		0.000
2	FUNCTION3 PFK	33.13	3.665e4					2.6	NO		bd		0.000
3	FUNCTION3 PFK	35.33	1.113e4					1.3	NO		bb		0.000
4	FUNCTION3 PFK	35.15	1.539e4					1.2	NO		bb		0.000
5	FUNCTION3 PFK	34.82	3.044e4					1.4	NO		db		0.000
6	FUNCTION3 PFK	34.73	1.273e4					1.3	NO		bd		0.000
7	FUNCTION3 PFK	34.68	1.450e3					0.4	NO		bb		0.000
8	FUNCTION3 PFK	34.64	5.671e3					0.8	NO		bb		0.000
9	FUNCTION3 PFK	34.57	1.352e4					1.3	NO		bb		0.000
10	FUNCTION3 PFK	34.47	2.508e4					1.7	NO		db		0.000
11	FUNCTION3 PFK	34.44	1.695e4					1.7	NO		bd		0.000
12	FUNCTION3 PFK	34.33	2.688e4					1.9	NO		bb		0.000
13	FUNCTION3 PFK	34.25	2.416e4					1.8	NO		bb		0.000
14	FUNCTION3 PFK	34.13	6.549e3					1.0	NO		bb		0.000
15	FUNCTION3 PFK	34.04	5.360e3					0.6	NO		bb		0.000
16	FUNCTION3 PFK	33.67	1.374e4					1.0	NO		bb		0.000
17	FUNCTION3 PFK	33.57	1.373e3					0.4	NO		bb		0.000
18	FUNCTION3 PFK	33.45	2.090e3					0.6	NO		bb		0.000
19	FUNCTION3 PFK	37.27	3.134e3					0.6	NO		bb		0.000
20	FUNCTION3 PFK	37.17	4.019e3					0.6	NO		bb		0.000
21	FUNCTION3 PFK	37.12	7.288e3					0.9	NO		bb		0.000
22	FUNCTION3 PFK	36.83	7.865e3					0.9	NO		bb		0.000
23	FUNCTION3 PFK	36.78	1.259e3					0.4	NO		bb		0.000
24	FUNCTION3 PFK	36.63	7.482e3					0.8	NO		bb		0.000
25	FUNCTION3 PFK	36.30	1.166e4					1.2	NO		bb		0.000
26	FUNCTION3 PFK	36.25	3.629e3					0.7	NO		bb		0.000
27	FUNCTION3 PFK	36.11	1.813e4					1.8	NO		bb		0.000
28	FUNCTION3 PFK	35.95	6.821e3					0.8	NO		bb		0.000
29	FUNCTION3 PFK	35.89	2.409e4					1.4	NO		bb		0.000
30	FUNCTION3 PFK	35.79	1.307e4					0.8	NO		bb		0.000
31	FUNCTION3 PFK	35.72	8.115e3					1.0	NO		bb		0.000
32	FUNCTION3 PFK	35.60	1.595e4					1.5	NO		bb		0.000
33	FUNCTION3 PFK	35.52	1.867e3					0.5	NO		bb		0.000
34	FUNCTION3 PFK	35.49	3.707e3					0.5	NO		bb		0.000
35	FUNCTION3 PFK	37.93	1.424e4					1.5	NO		db		0.000
36	FUNCTION3 PFK	37.88	2.447e4					1.9	NO		dd		0.000
37	FUNCTION3 PFK	37.80	9.747e3					1.0	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

**ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	37.47	9.950e3					1.1	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	43.07	4.746e4					2.0	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.37	4.379e3					1.3	NO		bb		
2	FUNCTION5 PFK	46.29	1.107e4					1.4	NO		bb		
3	FUNCTION5 PFK	44.83	2.808e3					0.9	NO		bb		
4	FUNCTION5 PFK	44.65	1.663e3					0.8	NO		bb		
5	FUNCTION5 PFK	43.98	7.555e2					0.5	NO		bb		
6	FUNCTION5 PFK	43.70	5.485e3					1.6	NO		bb		
7	FUNCTION5 PFK	43.42	1.457e4					2.3	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.24	1.816e2					2.2	NO		bb		0.000
2	FUNCTION1 HXCD...	27.70	8.308e1					3.3	YES		bb		0.000
3	FUNCTION1 HXCD...	27.39	1.948e2					2.9	NO		bb		0.000
4	FUNCTION1 HXCD...	26.20	1.261e2					1.7	NO		bb		0.000
5	FUNCTION1 HXCD...	25.82	9.915e1					2.3	NO		bb		0.000
6	FUNCTION1 HXCD...	25.03	1.496e2					1.9	NO		bb		0.000
7	FUNCTION1 HXCD...	24.35	1.769e2					1.7	NO		bb		0.000
8	FUNCTION1 HXCD...	23.60	1.130e2					1.9	NO		bb		0.000
9	FUNCTION1 HXCD...	23.07	7.993e1					1.5	NO		bb		0.000
10	FUNCTION1 HXCD...	22.84	2.451e2					2.6	NO		bb		0.000
11	FUNCTION1 HXCD...	22.19	2.018e2					3.1	YES		db		0.000
12	FUNCTION1 HXCD...	22.13	1.826e2					4.0	YES		dd		0.000
13	FUNCTION1 HXCD...	22.04	2.941e2					3.1	YES		bd		0.000
14	FUNCTION1 HXCD...	21.68	1.704e2					2.0	NO		bb		0.000

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

## ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	21.63	1.853e2					2.4	NO		bd		0.000
2	FUNCTION1 HPCD...	21.24	2.786e2					4.5	YES		bb		0.000
3	FUNCTION1 HPCD...	28.16	8.399e1					2.2	NO		db		0.000
4	FUNCTION1 HPCD...	28.09	1.527e2					2.2	NO		bd		0.000
5	FUNCTION1 HPCD...	26.77	1.268e2					3.7	YES		db		0.000
6	FUNCTION1 HPCD...	26.73	8.387e1					2.4	NO		bd		0.000
7	FUNCTION1 HPCD...	26.49	1.044e2					2.4	NO		bb		0.000
8	FUNCTION1 HPCD...	26.38	9.856e1					1.3	NO		bb		0.000
9	FUNCTION1 HPCD...	25.84	1.086e2					2.2	NO		bb		0.000
10	FUNCTION1 HPCD...	25.14	1.329e2					2.1	NO		db		0.000
11	FUNCTION1 HPCD...	25.02	1.120e2					2.6	NO		bd		0.000
12	FUNCTION1 HPCD...	23.86	7.583e1					2.0	NO		bb		0.000
13	FUNCTION1 HPCD...	22.89	1.288e2					3.0	NO		bb		0.000
14	FUNCTION1 HPCD...	22.10	1.499e2					2.3	NO		db		0.000
15	FUNCTION1 HPCD...	21.94	7.729e1					1.3	NO		bd		0.000
16	FUNCTION1 HPCD...	21.68	9.619e1					2.7	NO		db		0.000

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.48	1.439e2					3.6	YES		bb		0.000
2	FUNCTION2 HPCD...	32.17	1.102e2					2.2	NO		bb		0.000
3	FUNCTION2 HPCD...	31.42	1.552e2					3.9	YES		bb		0.000

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	37.30	8.103e1					1.1	NO		db		0.000
2	FUNCTION3 OCDPE	37.20	9.914e1					2.1	NO		bd		0.000
3	FUNCTION3 OCDPE	34.84	1.049e2					2.9	NO		bb		0.000
4	FUNCTION3 OCDPE	33.46	7.013e1					1.6	NO		bb		0.000

## ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.00	7.822e1					1.3	NO		bb		0.000
2	FUNCTION4 NCDPE	40.50	9.155e1					1.8	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**  
Dataset: T:\Autospec\Processed Data Batch\221228D1.qld  
Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time  
Printed: Thursday, December 29, 2022 10:40:03 Pacific Standard Time

**ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk**

**ETHERS6**

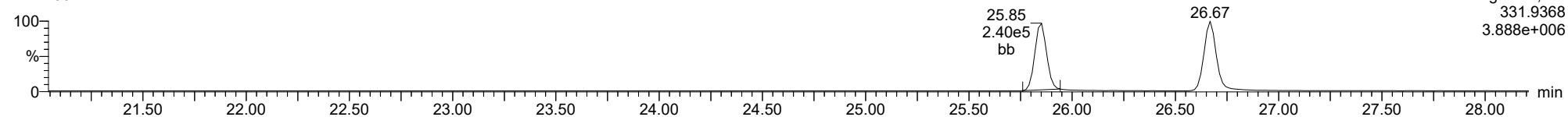
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

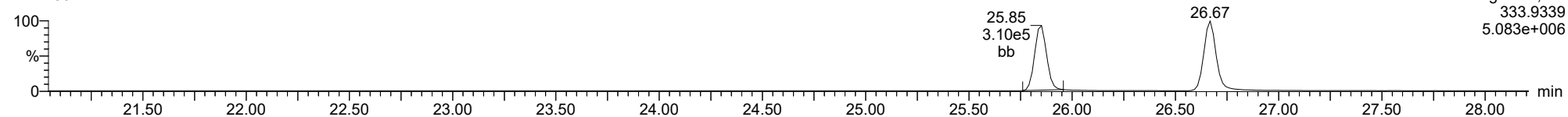
**13C-1234-TCDD**

22122802



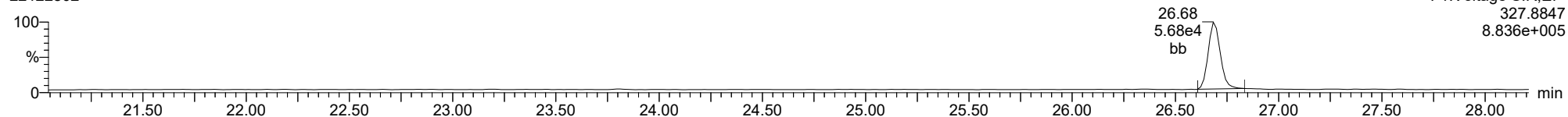
**13C-1234-TCDD**

22122802



**37CL-2378-TCDD**

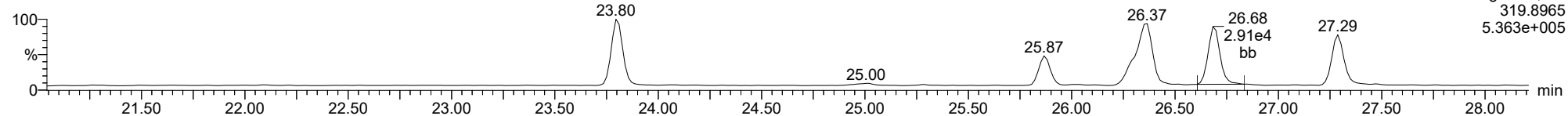
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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

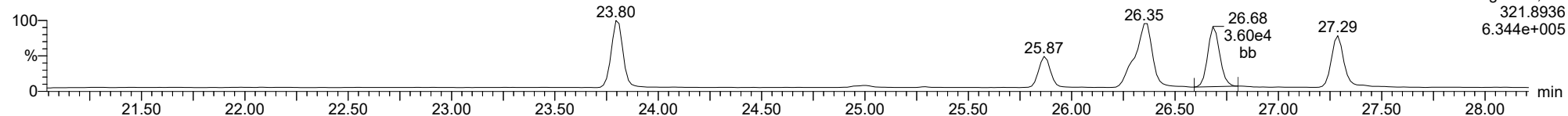
22122802



F1:Voltage SIR,EI+  
319.8965  
5.363e+005

**2378-TCDD**

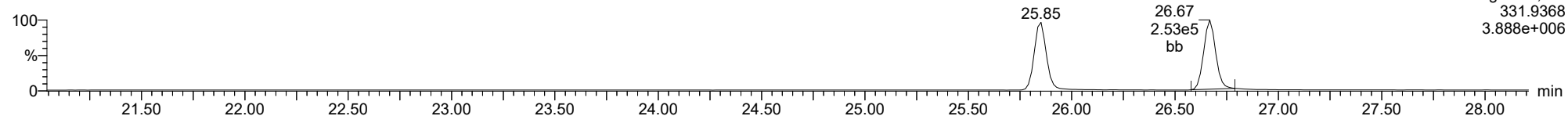
22122802



F1:Voltage SIR,EI+  
321.8936  
6.344e+005

**13C-2378-TCDD**

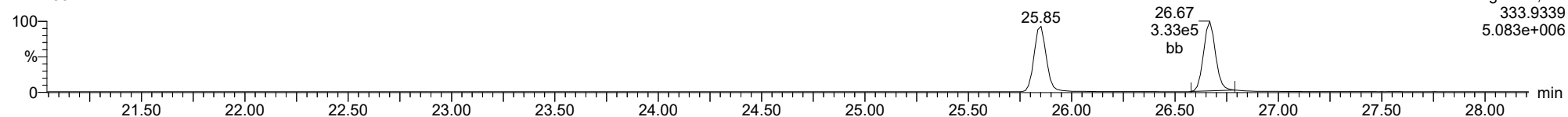
22122802



F1:Voltage SIR,EI+  
331.9368  
3.888e+006

**13C-2378-TCDD**

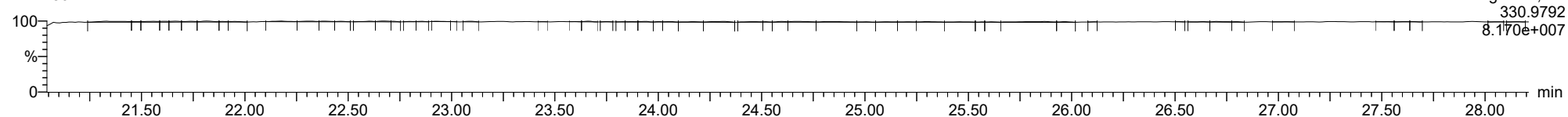
22122802



F1:Voltage SIR,EI+  
333.9339  
5.083e+006

**FUNCTION1 PFK**

22122802

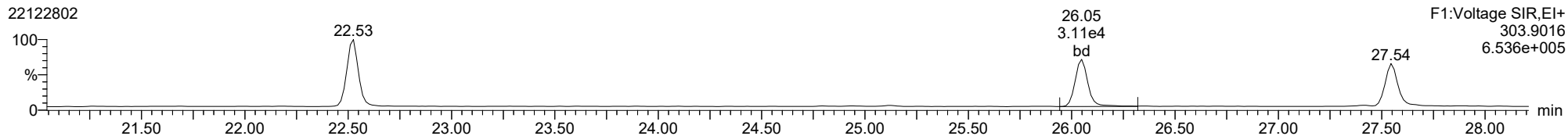


F1:Voltage SIR,EI+  
330.9792  
8.170e+007

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

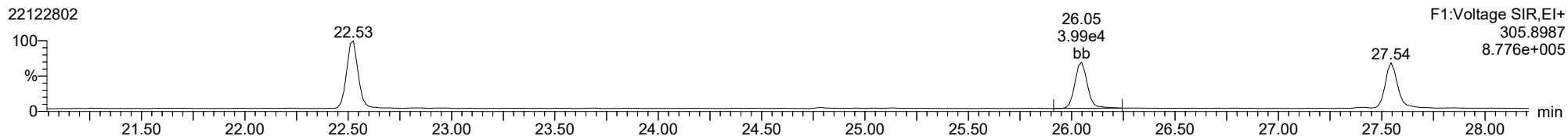
**2378-TCDF**

22122802



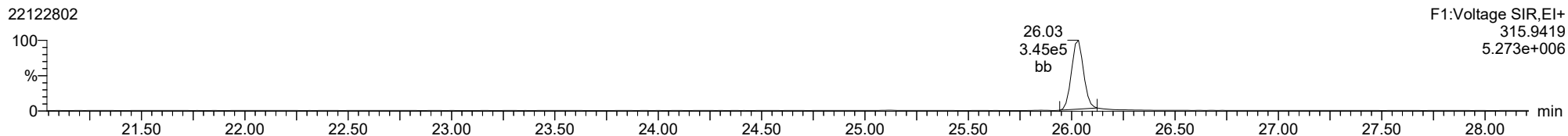
**2378-TCDF**

22122802



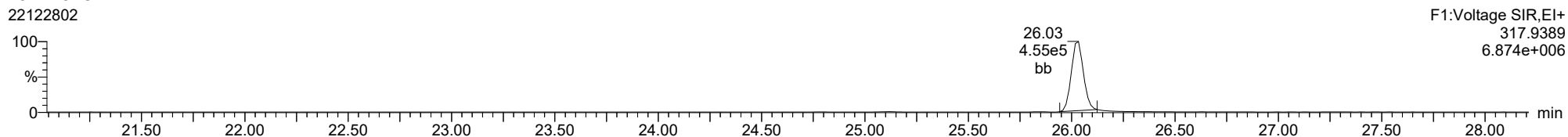
**13C-2378-TCDF**

22122802



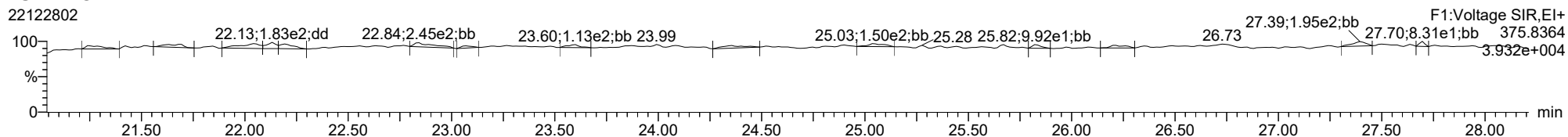
**13C-2378-TCDF**

22122802



**FUNCTION1 HXCDPE**

22122802

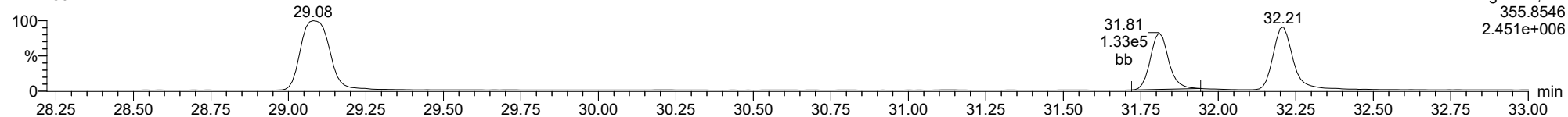




ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

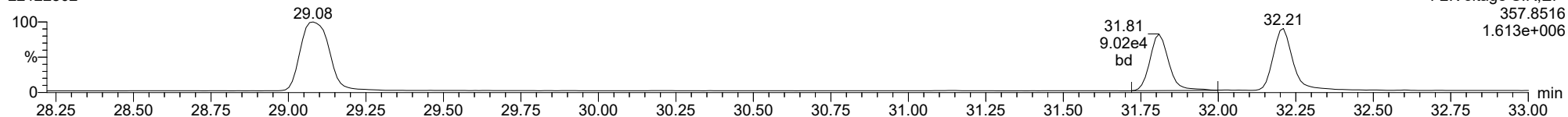
**12378-PeCDD**

22122802



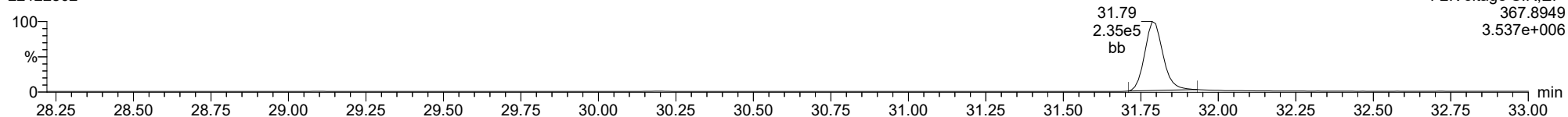
**12378-PeCDD**

22122802



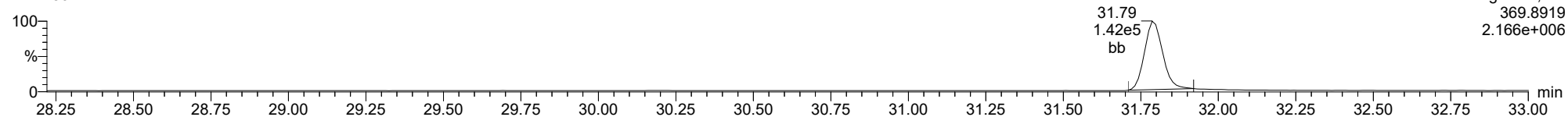
**13C-12378-PeCDD**

22122802



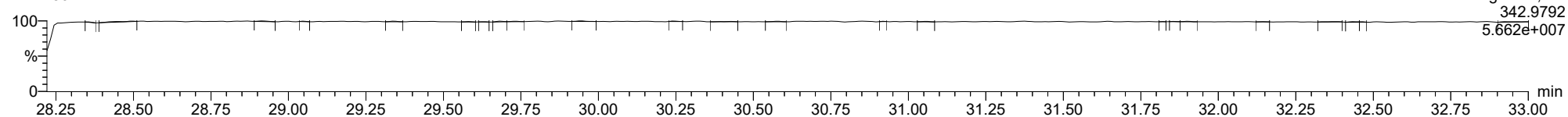
**13C-12378-PeCDD**

22122802



**FUNCTION2 PFK**

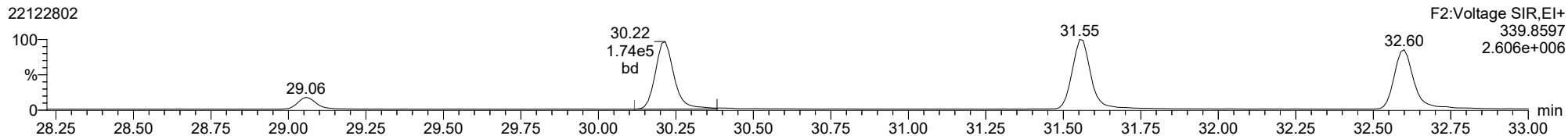
22122802



ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

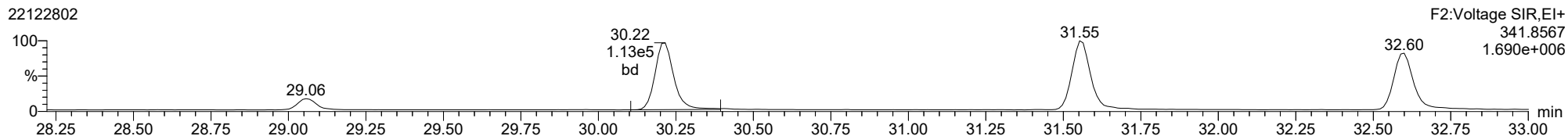
**12378-PeCDF**

22122802



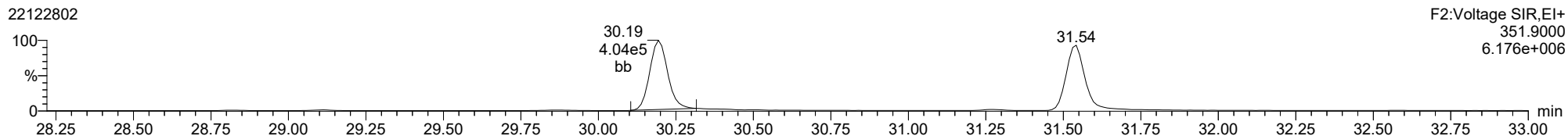
**12378-PeCDF**

22122802



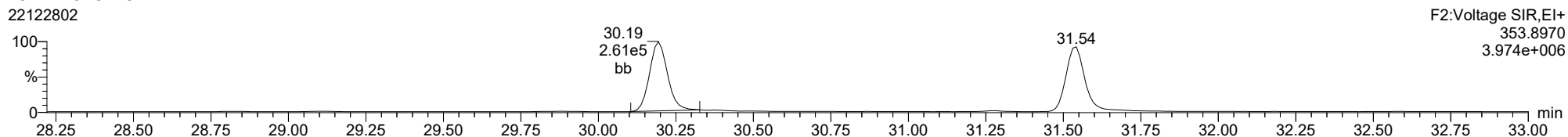
**13C-12378-PeCDF**

22122802



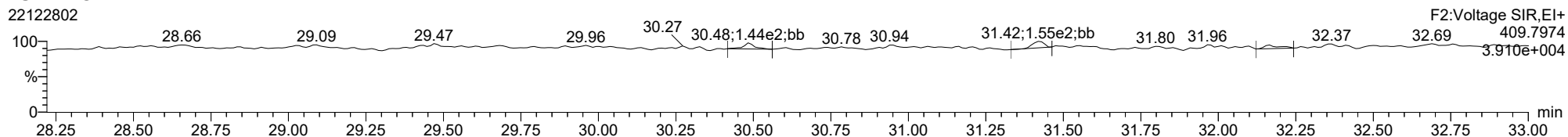
**13C-12378-PeCDF**

22122802



**FUNCTION2 HPCDPE**

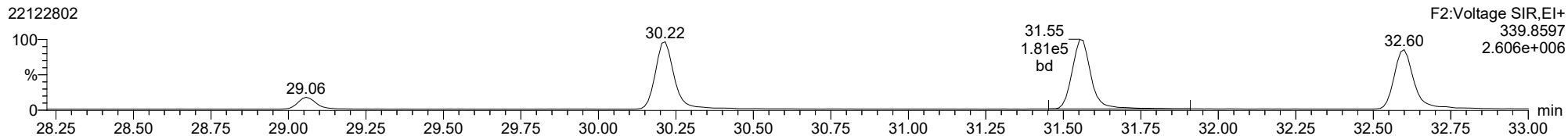
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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

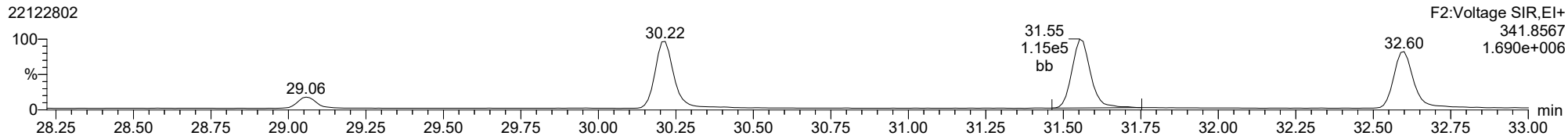
**23478-PeCDF**

22122802



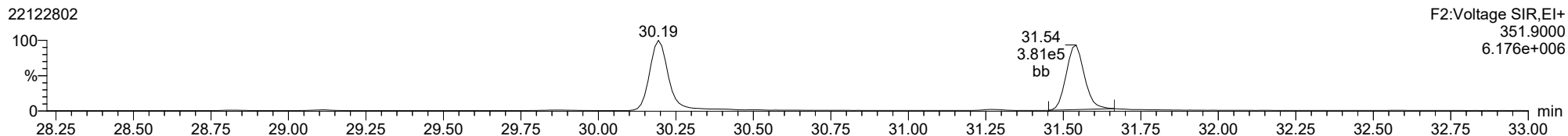
**23478-PeCDF**

22122802



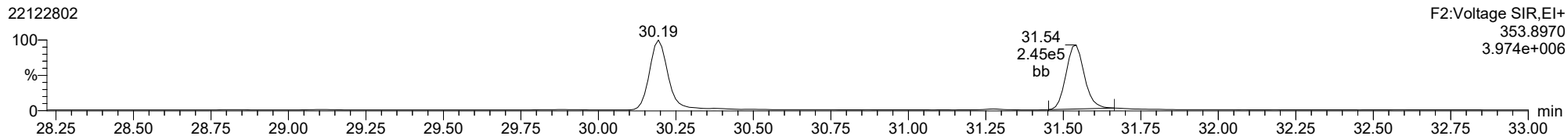
**13C-23478-PeCDF**

22122802



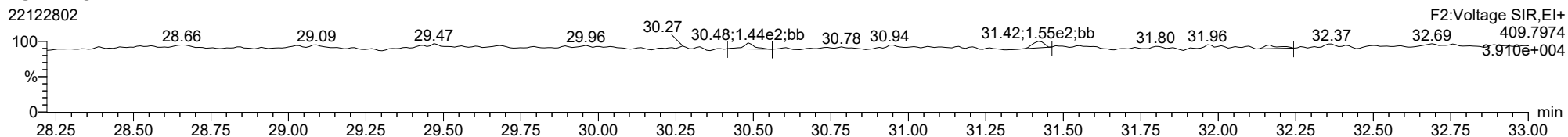
**13C-23478-PeCDF**

22122802



**FUNCTION2 HPCDPE**

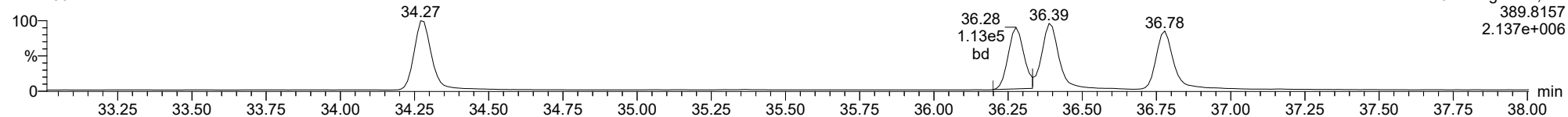
22122802



ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

**123478-HxCDD**

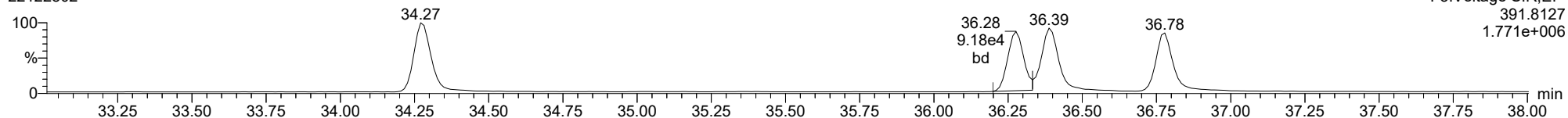
22122802



F3:Voltage SIR,El+  
389.8157  
2.137e+006

**123478-HxCDD**

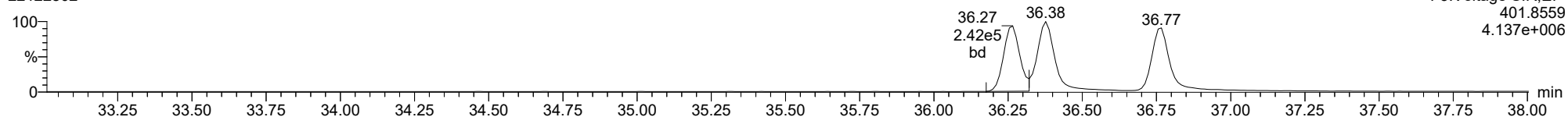
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F3:Voltage SIR,El+  
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1.771e+006

**13C-123478-HxCDD**

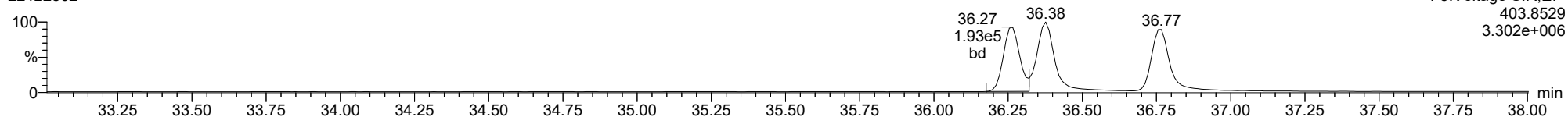
22122802



F3:Voltage SIR,El+  
401.8559  
4.137e+006

**13C-123478-HxCDD**

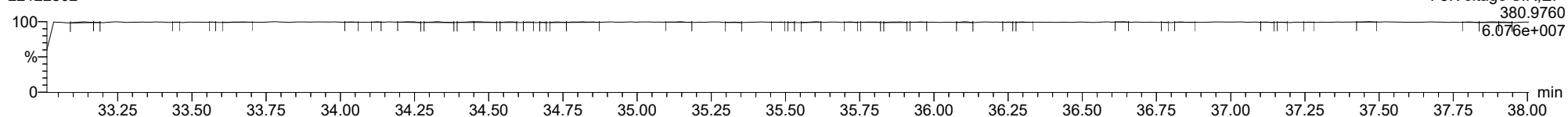
22122802



F3:Voltage SIR,El+  
403.8529  
3.302e+006

**FUNCTION3 PFK**

22122802

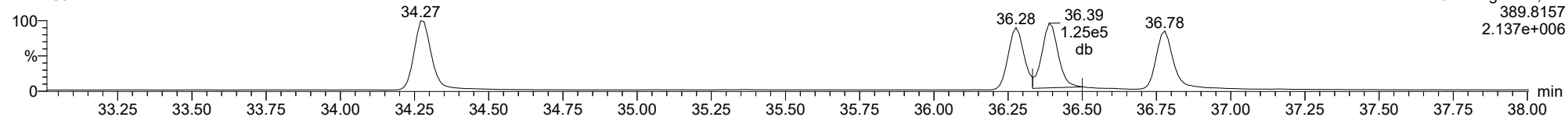


F3:Voltage SIR,El+  
380.9760  
6.076e+007

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

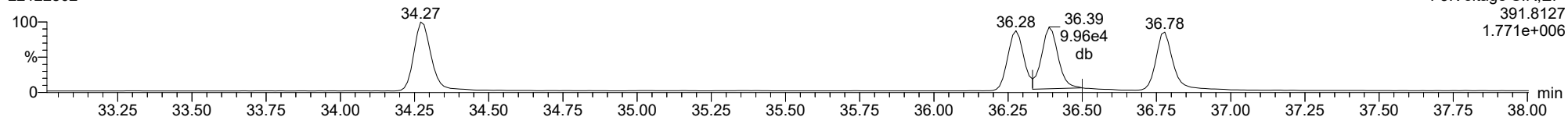
22122802



F3:Voltage SIR,EI+  
389.8157  
2.137e+006

**123678-HxCDD**

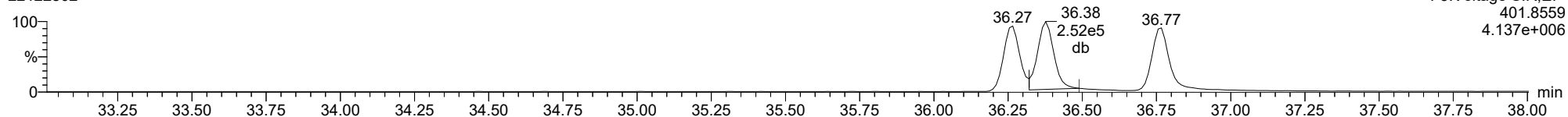
22122802



F3:Voltage SIR,EI+  
391.8127  
1.771e+006

**13C-123678-HxCDD**

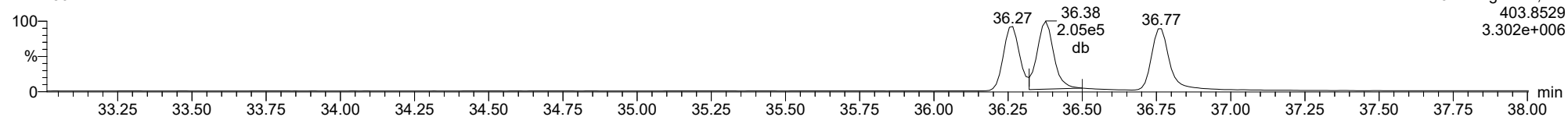
22122802



F3:Voltage SIR,EI+  
401.8559  
4.137e+006

**13C-123678-HxCDD**

22122802

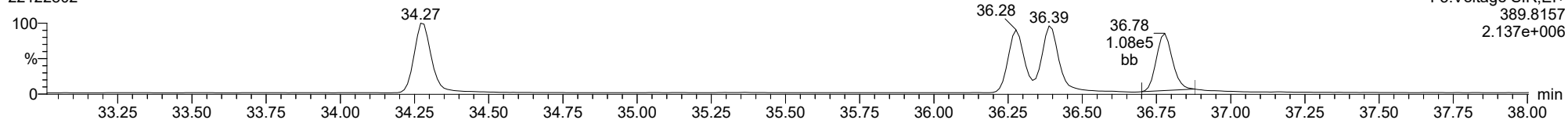


F3:Voltage SIR,EI+  
403.8529  
3.302e+006

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

123789-HxCDD

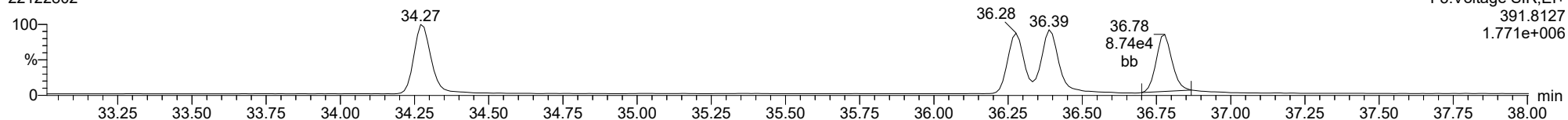
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F3:Voltage SIR,EI+  
389.8157  
2.137e+006

123789-HxCDD

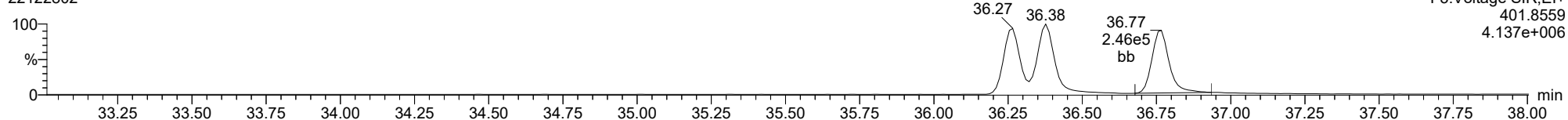
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F3:Voltage SIR,EI+  
391.8127  
1.771e+006

13C-123789-HxCDD

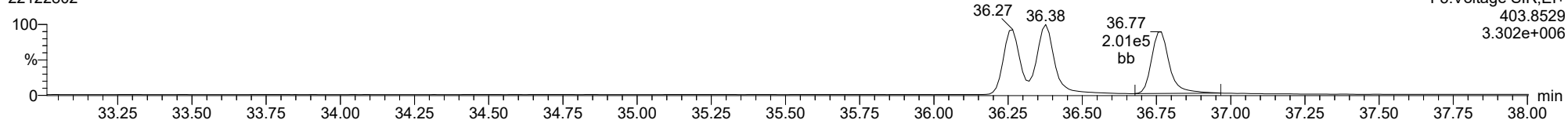
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F3:Voltage SIR,EI+  
401.8559  
4.137e+006

13C-123789-HxCDD

22122802

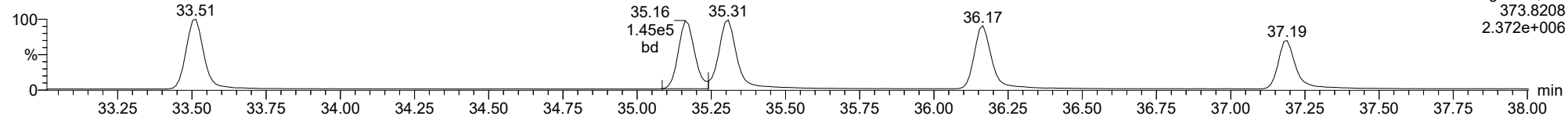


F3:Voltage SIR,EI+  
403.8529  
3.302e+006

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

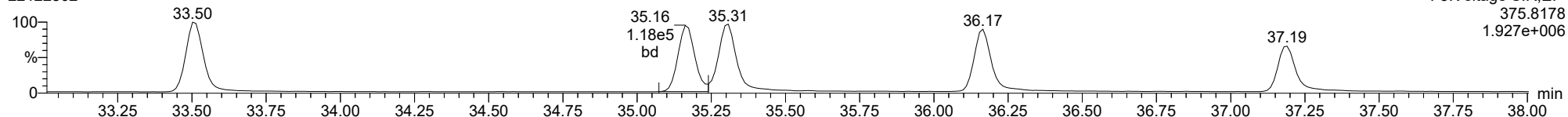
**123478-HxCDF**

22122802



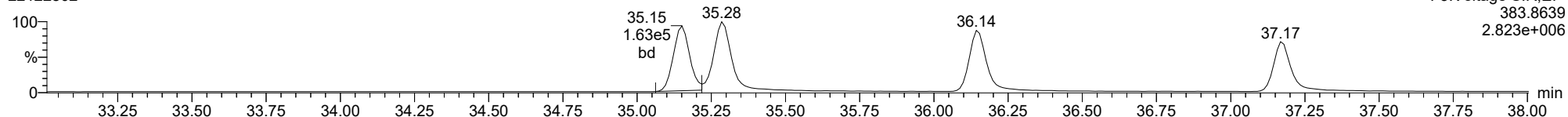
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22122802



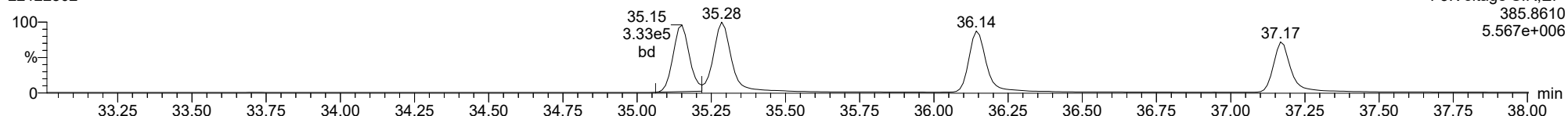
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22122802



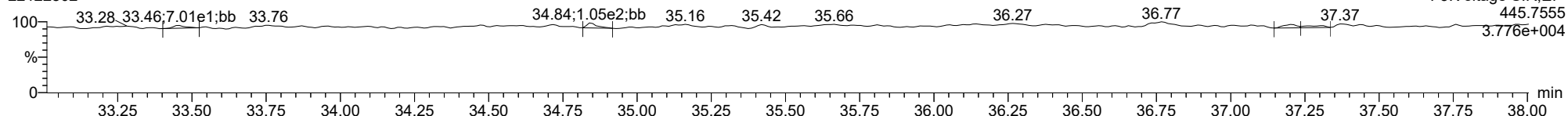
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22122802



**FUNCTION3 OCDPE**

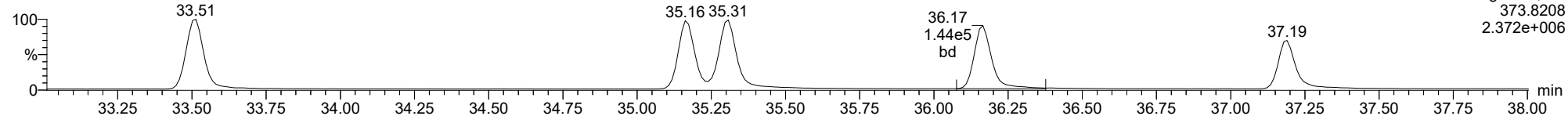
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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

**234678-HxCDF**

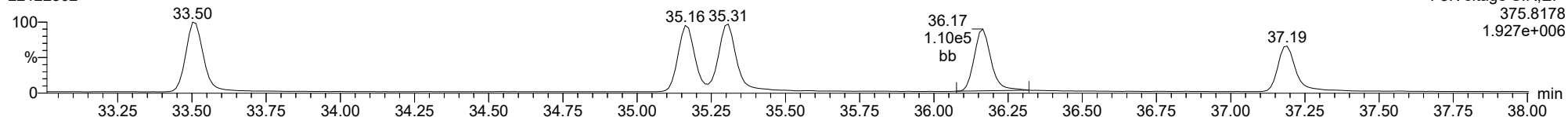
22122802



F3:Voltage SIR,EI+  
373.8208  
2.372e+006

**234678-HxCDF**

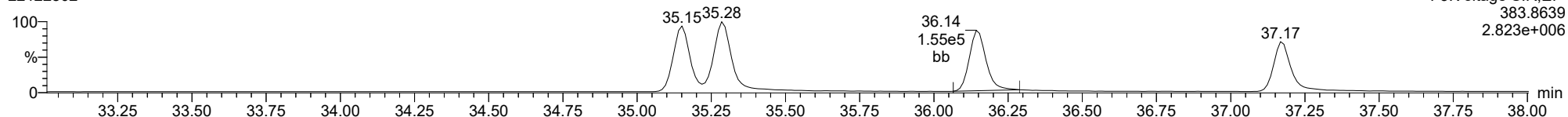
22122802



F3:Voltage SIR,EI+  
375.8178  
1.927e+006

**13C-234678-HxCDF**

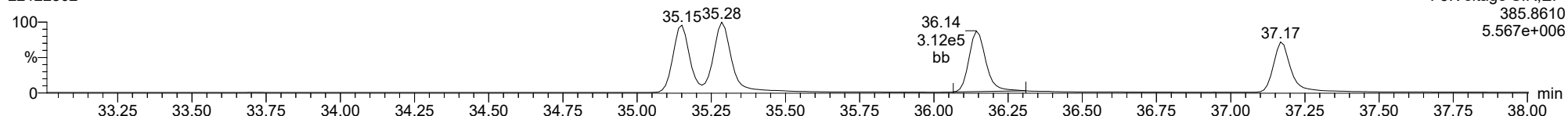
22122802



F3:Voltage SIR,EI+  
383.8639  
2.823e+006

**13C-234678-HxCDF**

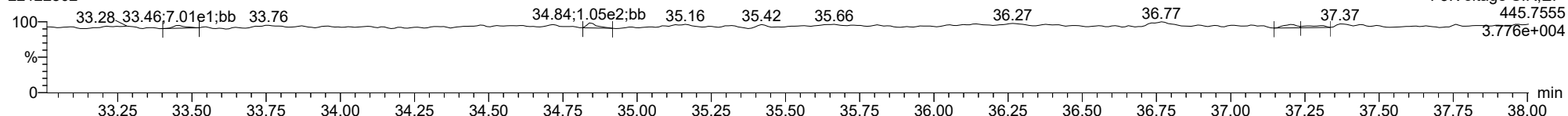
22122802



F3:Voltage SIR,EI+  
385.8610  
5.567e+006

**FUNCTION3 OCDPE**

22122802



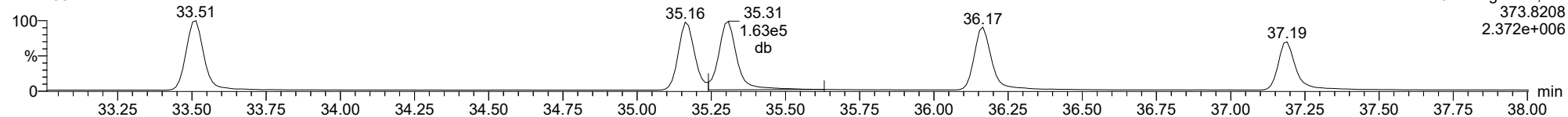
F3:Voltage SIR,EI+  
445.7555  
3.776e+004



ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

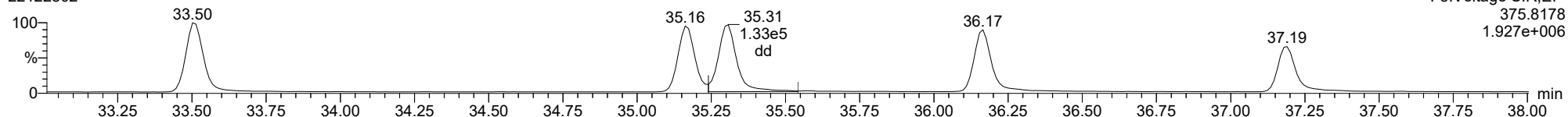
**123678-HxCDF**

22122802



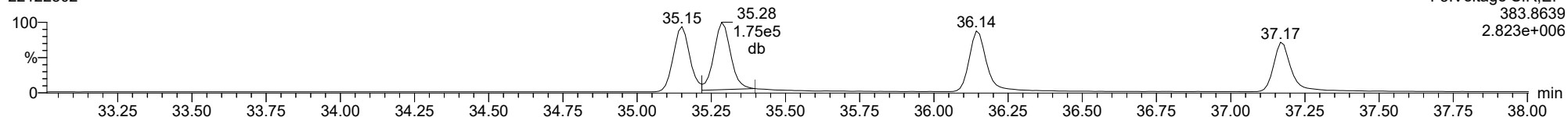
**123678-HxCDF**

22122802



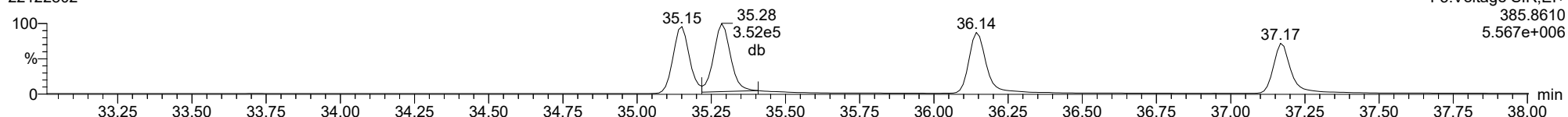
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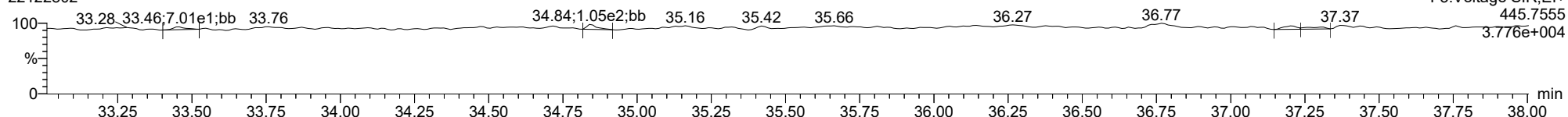
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22122802



**FUNCTION3 OCDPE**

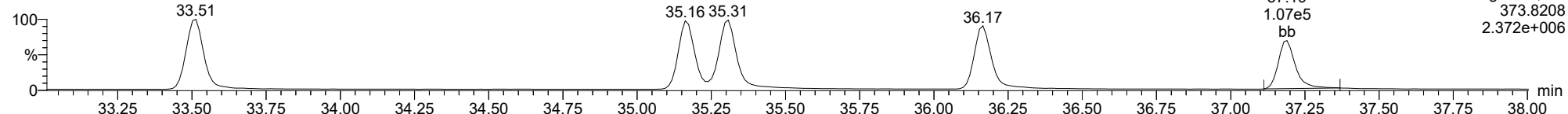
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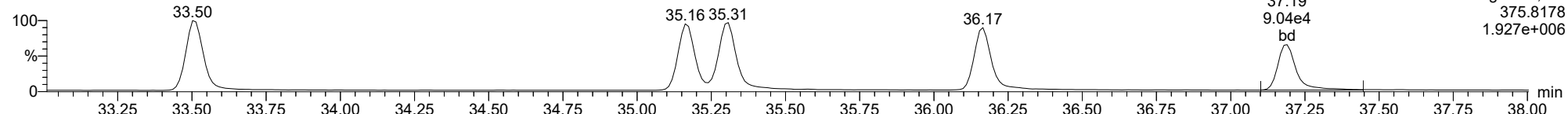
**123789-HxCDF**

22122802



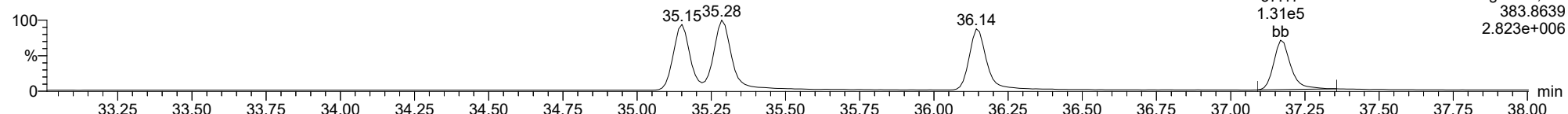
**123789-HxCDF**

22122802



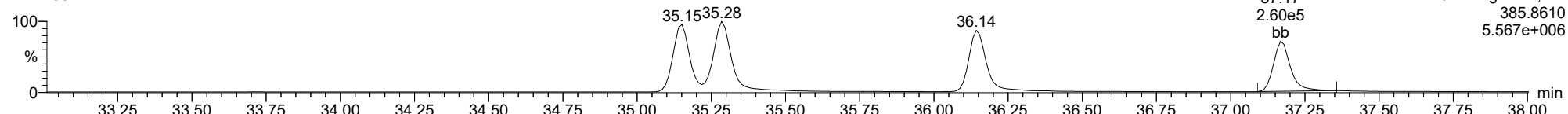
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22122802



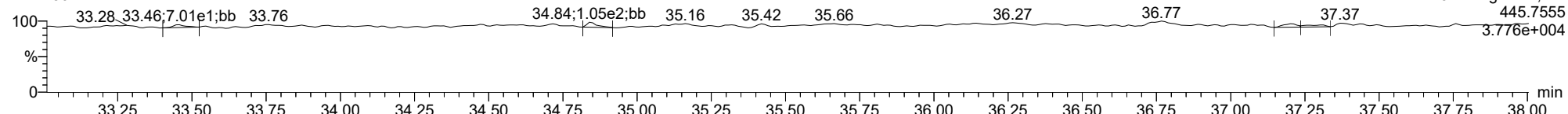
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22122802



**FUNCTION3 OCDPE**

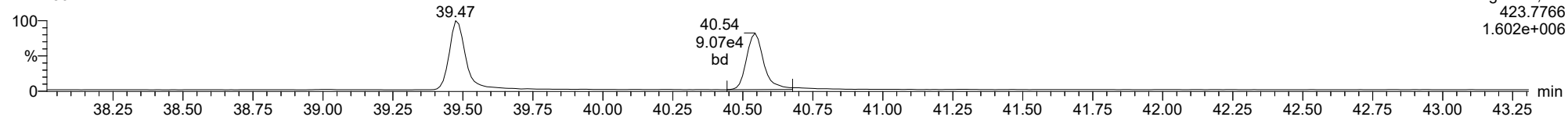
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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

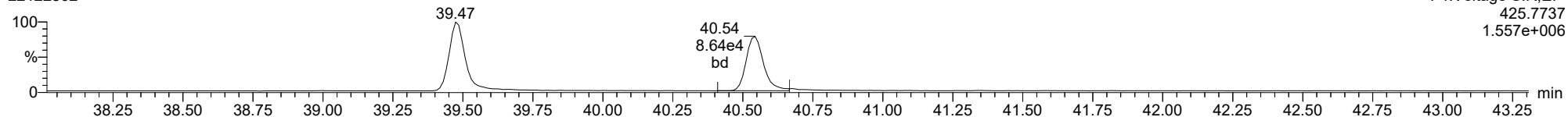
1234678-HpCDD

22122802



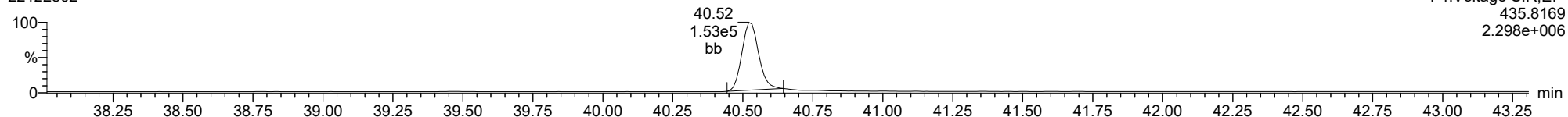
1234678-HpCDD

22122802



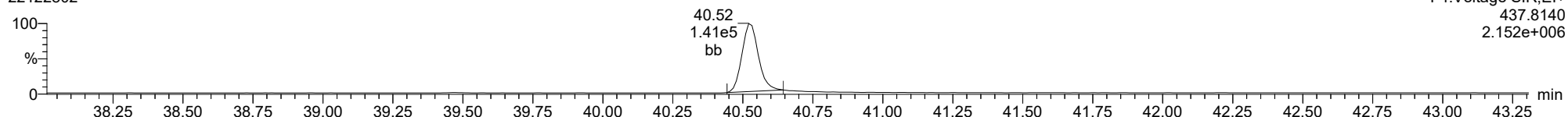
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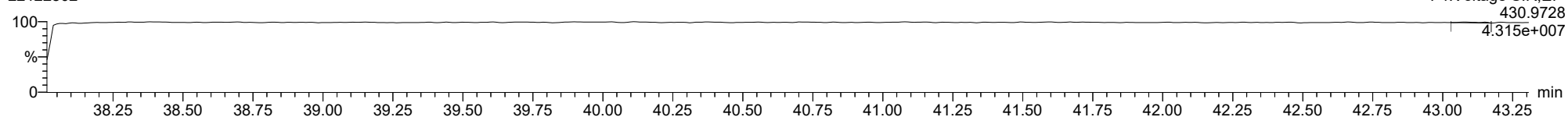
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22122802



FUNCTION4 PFK

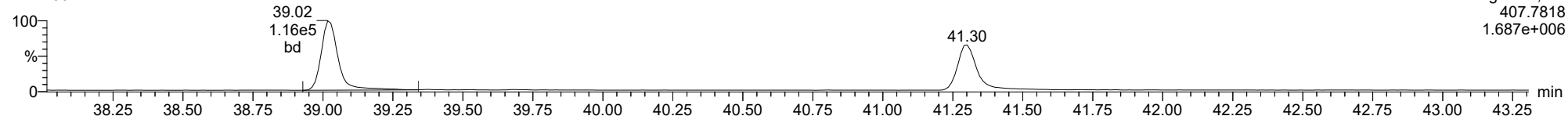
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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

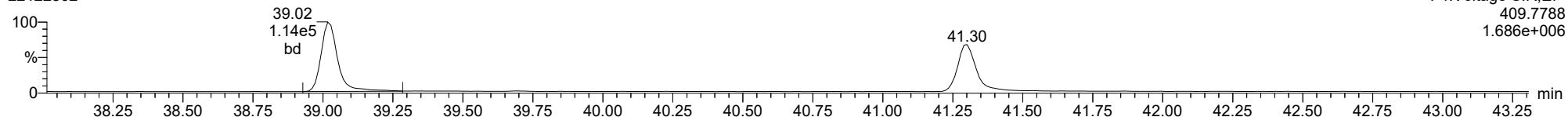
22122802



F4:Voltage SIR,EI+  
407.7818  
1.687e+006

1234678-HpCDF

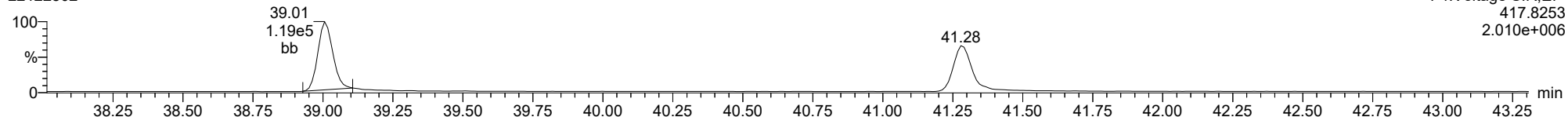
22122802



F4:Voltage SIR,EI+  
409.7788  
1.686e+006

13C-1234678-HpCDF

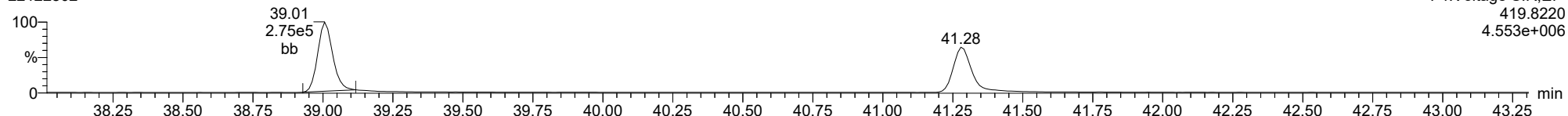
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F4:Voltage SIR,EI+  
417.8253  
2.010e+006

13C-1234678-HpCDF

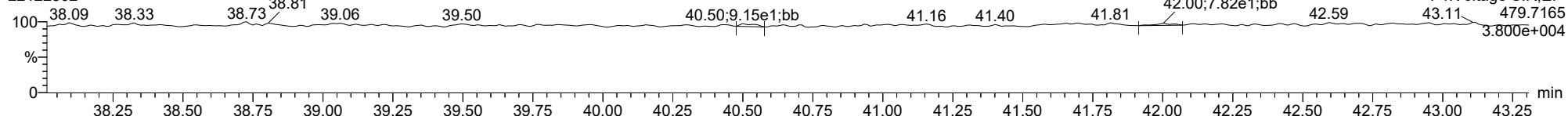
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F4:Voltage SIR,EI+  
419.8220  
4.553e+006

FUNCTION4 NCDPE

22122802

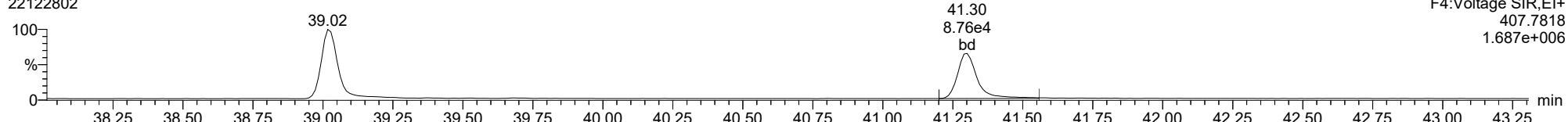


F4:Voltage SIR,EI+  
479.7165  
3.800e+004

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

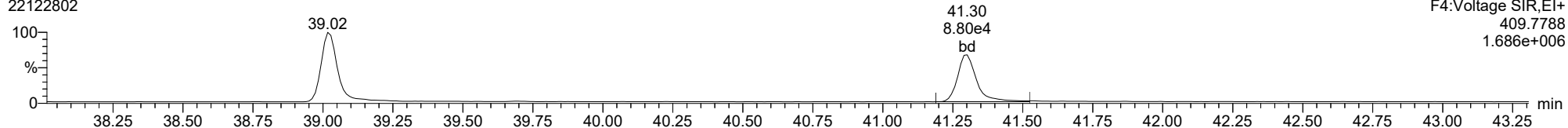
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F4:Voltage SIR,El+  
407.7818  
1.687e+006

1234789-HpCDF

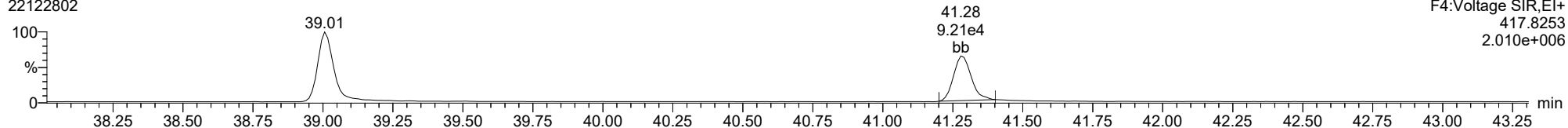
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F4:Voltage SIR,El+  
409.7788  
1.686e+006

13C-1234789-HpCDF

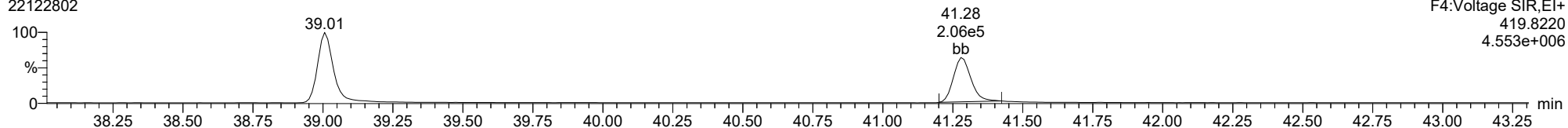
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F4:Voltage SIR,El+  
417.8253  
2.010e+006

13C-1234789-HpCDF

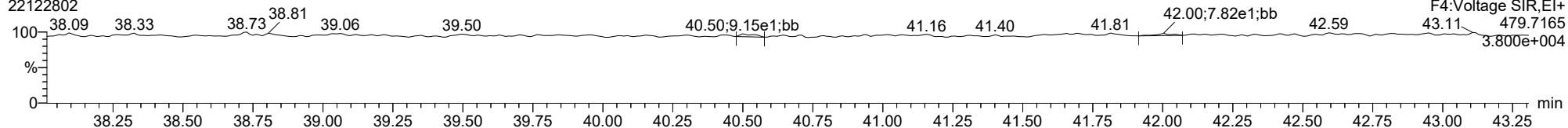
22122802



F4:Voltage SIR,El+  
419.8220  
4.553e+006

FUNCTION4 NCDPE

22122802

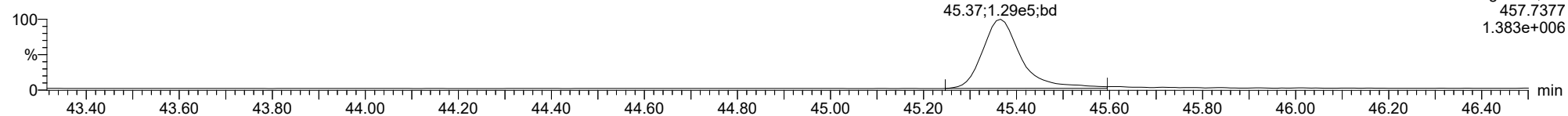


F4:Voltage SIR,El+  
479.7165  
3.800e+004

ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

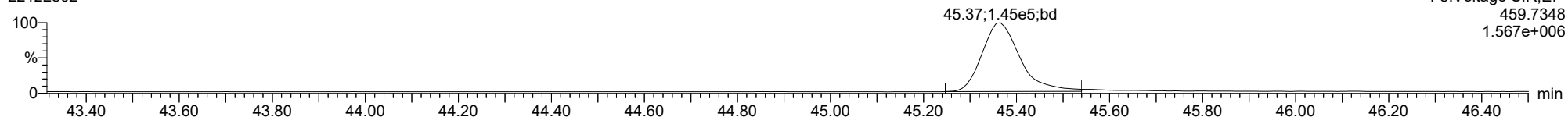
**OCDD**

22122802



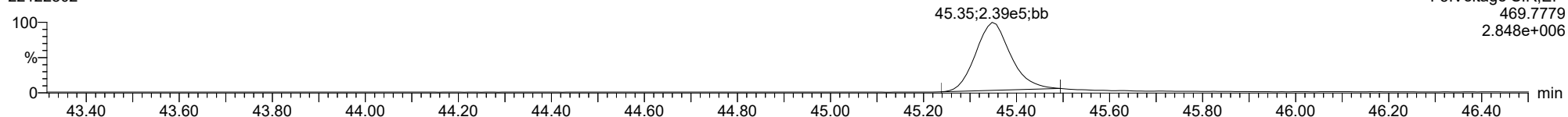
**OCDD**

22122802



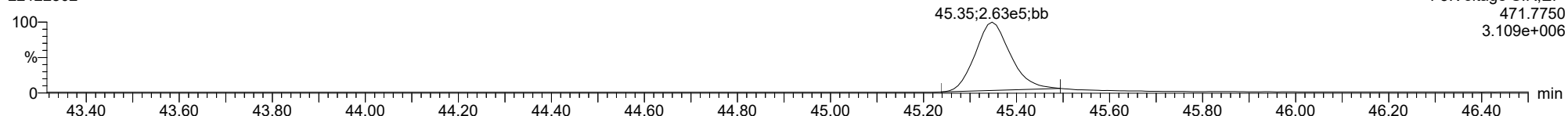
**13C-OCDD**

22122802



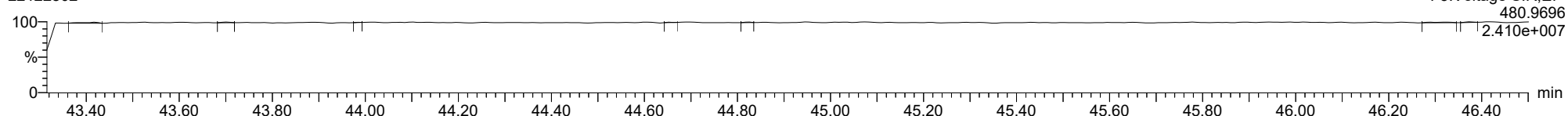
**13C-OCDD**

22122802

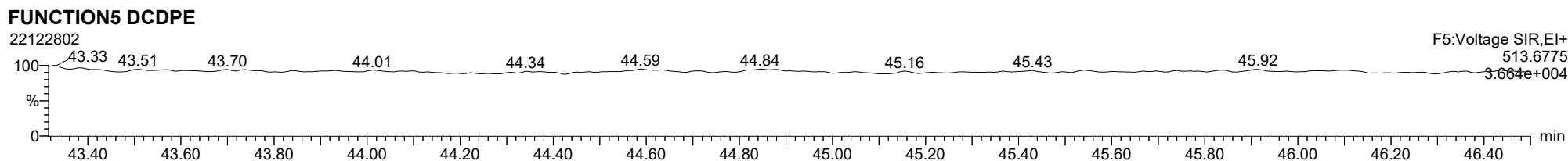
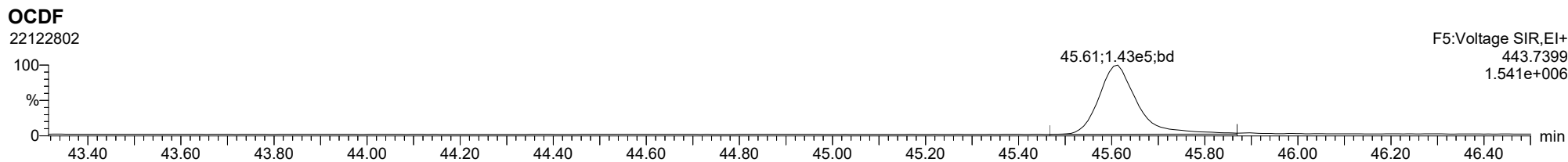
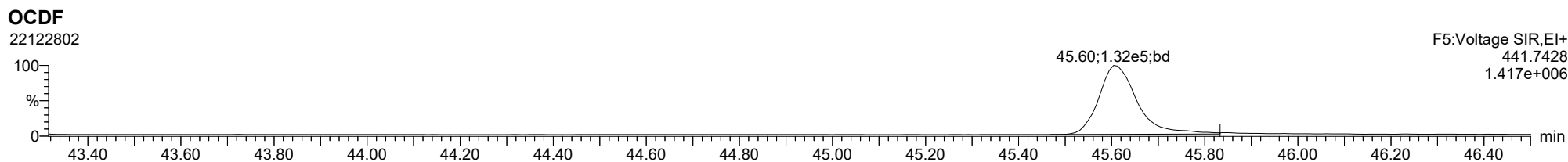


**FUNCTION5 PFK**

22122802



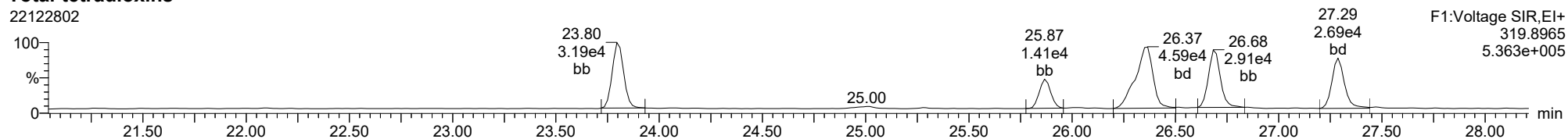
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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

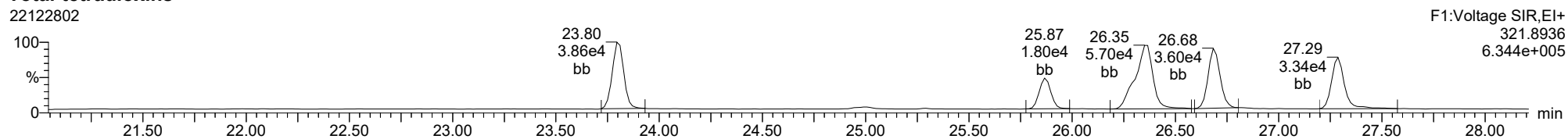
**Total-tetradoxins**

22122802



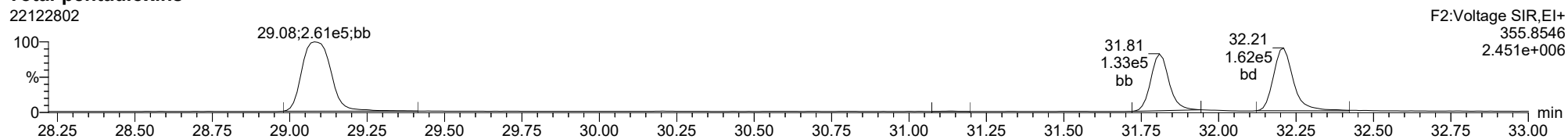
**Total-tetradoxins**

22122802



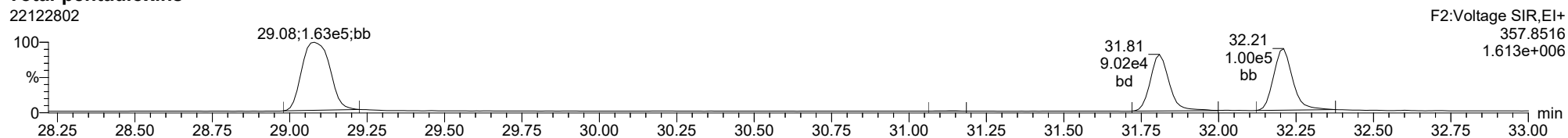
**Total-pentadoxins**

22122802



**Total-pentadoxins**

22122802

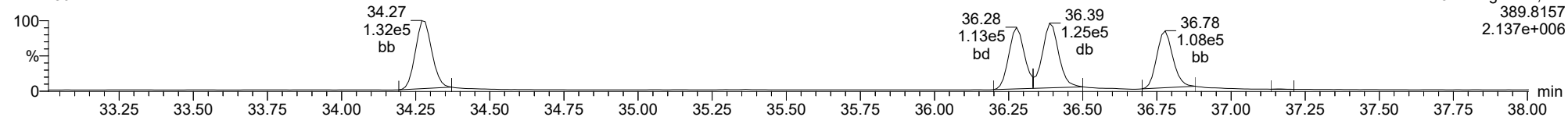




ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

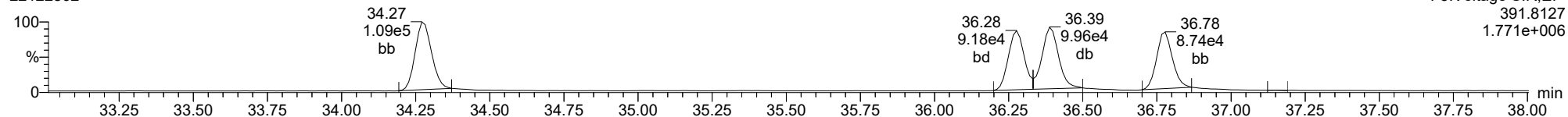
**Total-hexadioxins**

22122802



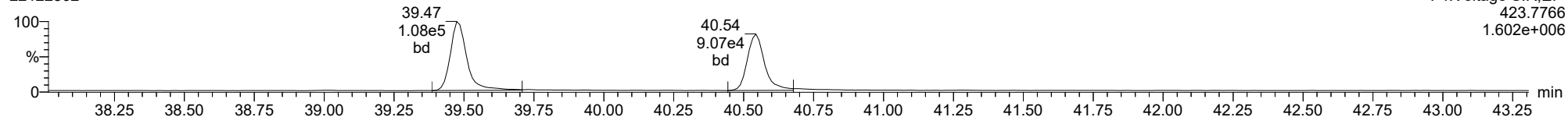
**Total-hexadioxins**

22122802



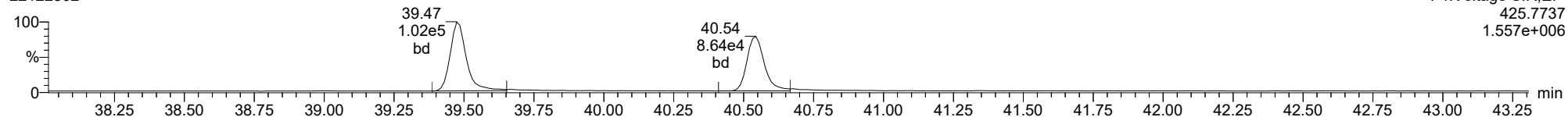
**Total-heptadioxins**

22122802



**Total-heptadioxins**

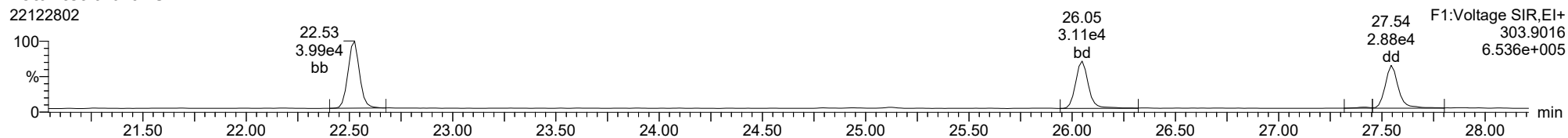
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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

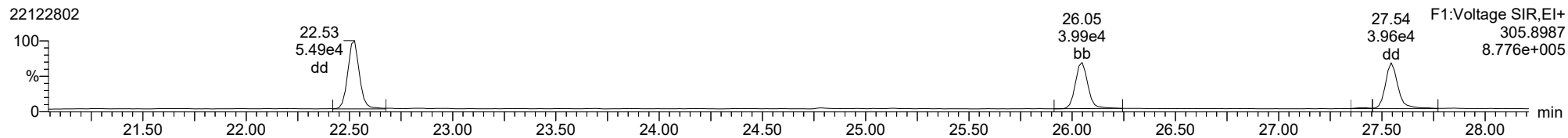
**Total-tetrafurans**

22122802



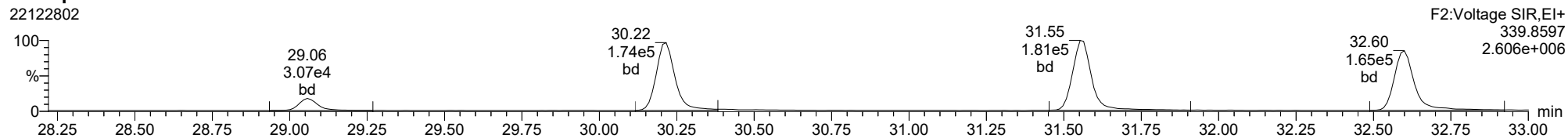
**Total-tetrafurans**

22122802



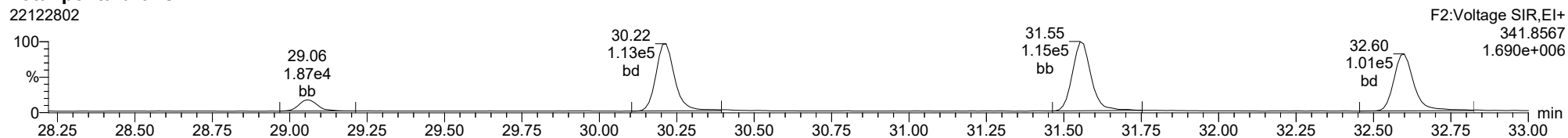
**Total-pentafurans**

22122802



**Total-pentafurans**

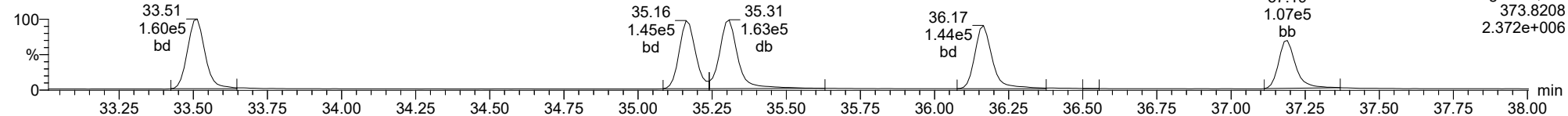
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ID: CS3P1, Name: 22122802, Date: 28-Dec-2022, Time: 11:32:05, Conditions: AUTOSPEC01, User: pk

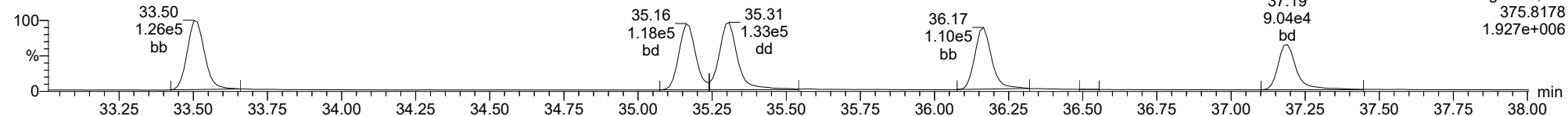
**Total-hexafurans**

22122802



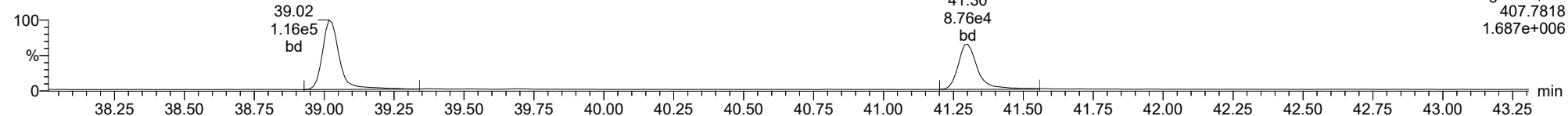
**Total-hexafurans**

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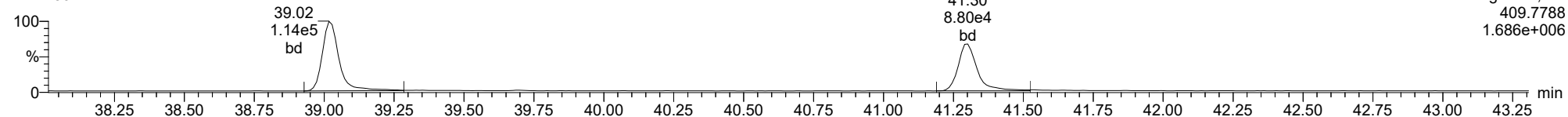
**Total-heptafurans**

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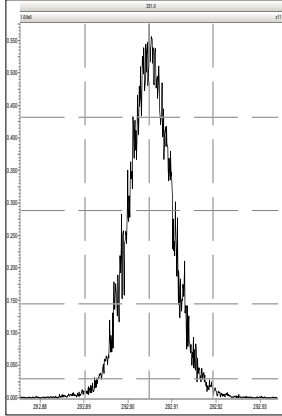


**Total-heptafurans**

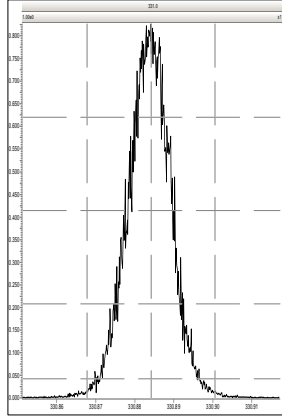
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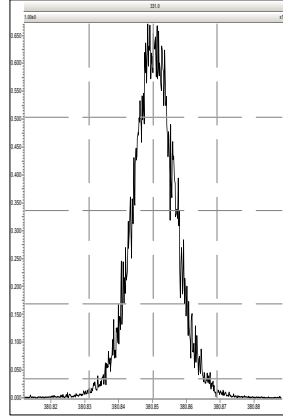
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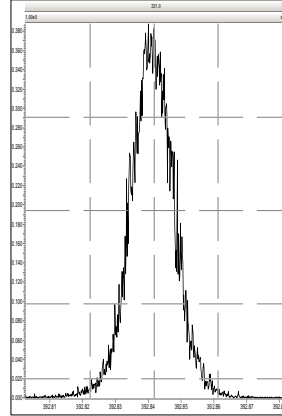
M 330.9792 R 12788



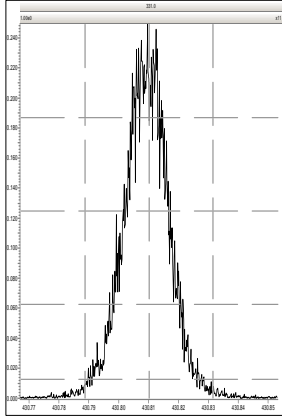
M 380.9760 R 12958



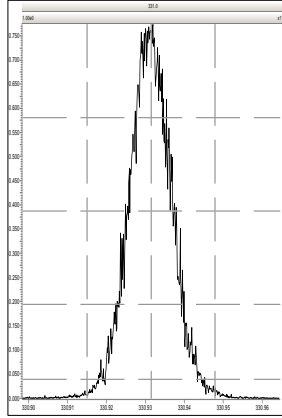
M 392.9760 R 12820



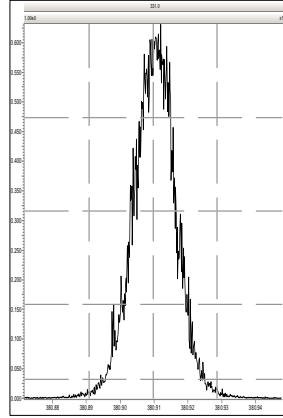
M 430.9728 R 12667



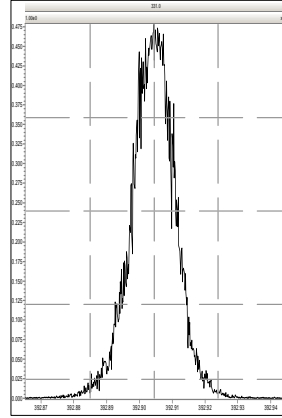
M 330.9792 R 13966



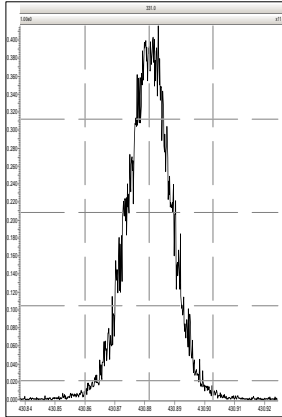
M 380.9760 R 12987



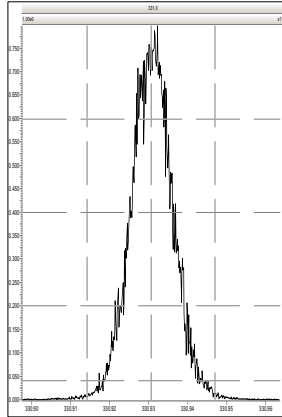
M 392.9760 R 12530



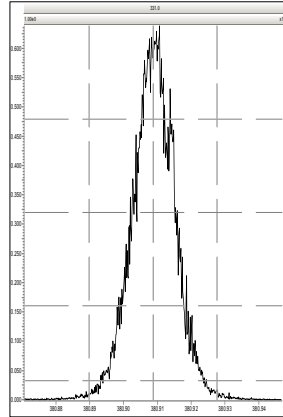
M 430.9728 R 12445



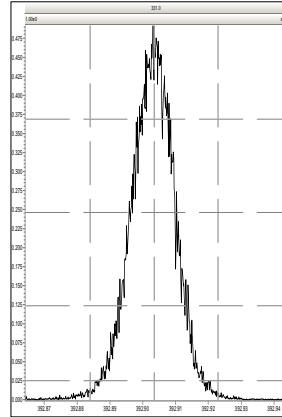
M 330.9792 R 12820



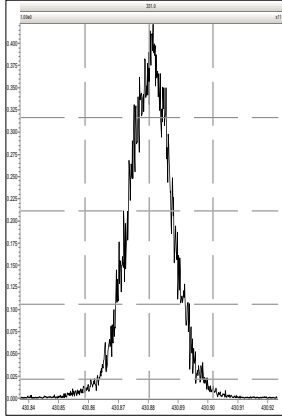
M 380.9760 R 12448



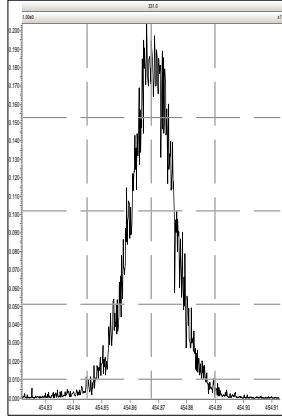
M 392.9760 R 12290



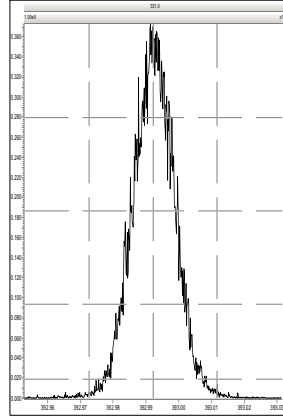
M 430.9728 R 12711



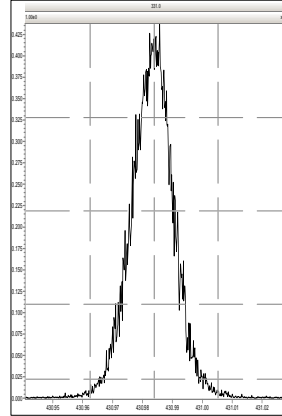
M 454.9728 R 11628



M 392.9760 R 13227

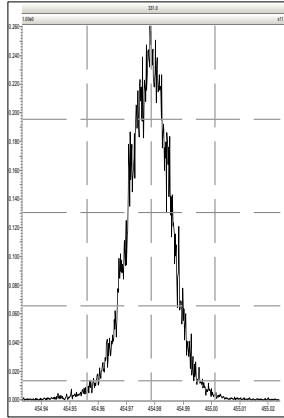


M 430.9728 R 13446

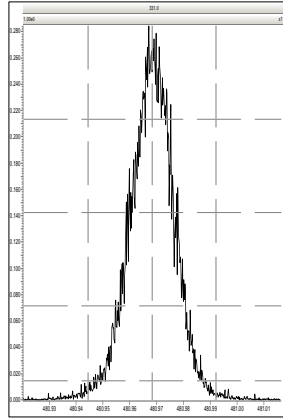


Printed: Wednesday, December 28, 2022 10:37:26 Pacific Standard Time

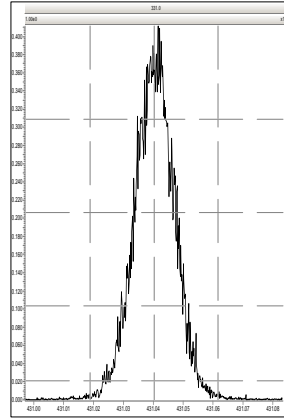
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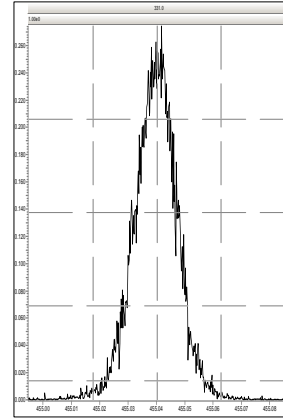
M 480.9696 R 12726



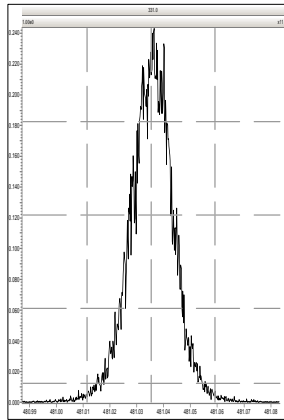
M 430.9728 R 14379



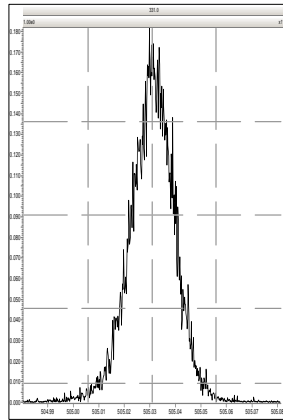
M 454.9728 R 12988



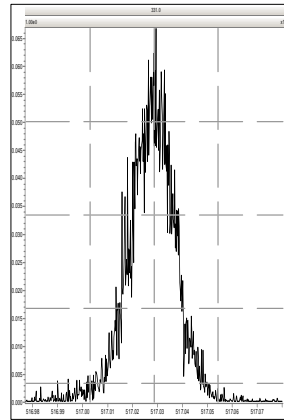
M 480.9696 R 13033



M 504.9696 R 12825



M 516.9697 R 13826

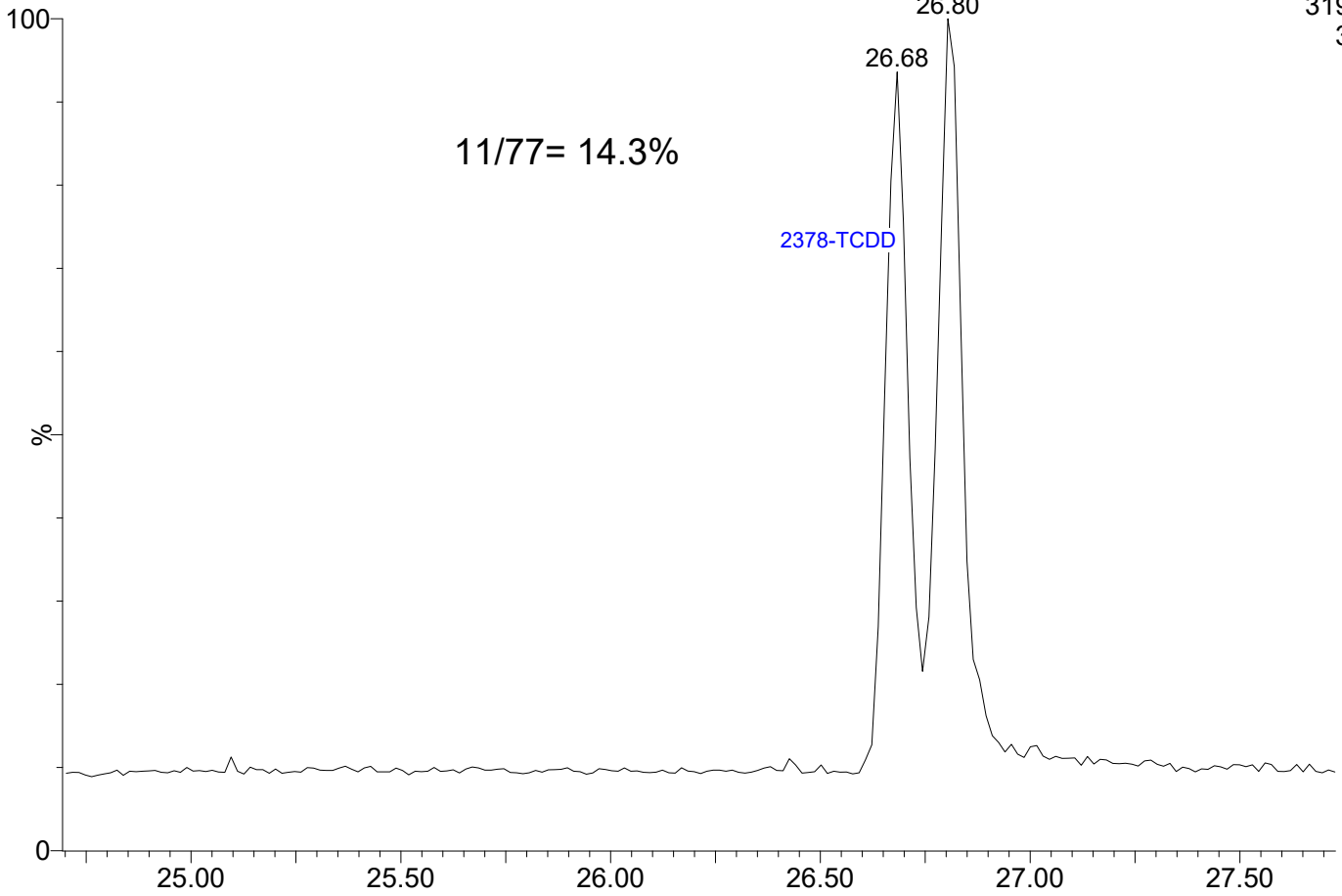


22122803

1: Voltage SIR 15 Channels EI+

319.8965

3.78e5

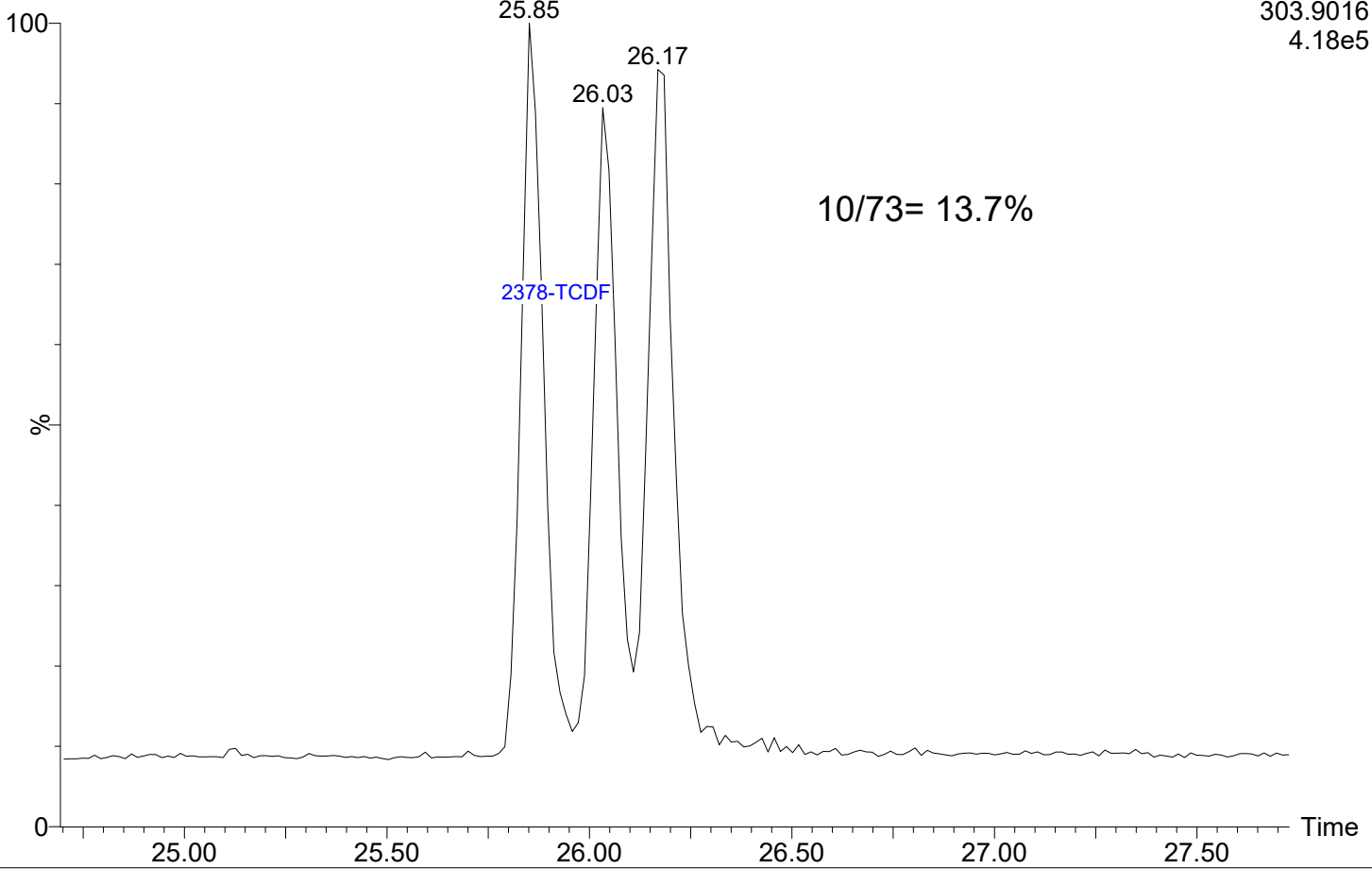


22122803

1: Voltage SIR 15 Channels EI+

303.9016

4.18e5





INITIAL CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020122A

Calibration Date: 02/01/2023

Sequence: SLA0009

Injection Date: 02/02/23

Lab Sample ID: SLA0009-ICV1

Injection Time: 06:23

Sequence Name: CS3R3

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	10.4	0.8760604	0.9071795		3.6	+/-16
2,3,7,8-TCDD	A	10.000	9.55	1.2363600	1.1811360		-4.5	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.7	0.8446540	0.8402540		-0.5	+/-18
2,3,4,7,8-PeCDF	A	50.000	50.1	0.9111780	0.9121410		0.1	+/-18
1,2,3,7,8-PeCDD	A	50.000	50.6	1.0866850	1.0994130		1.2	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.1	1.1816860	1.1613140		-1.7	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	50.4	1.2480480	1.2572130		0.7	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	51.5	1.2288500	1.2667360		3.1	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	49.2	1.1865370	1.1664110		-1.7	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	49.9	0.9869672	0.9846943		-0.2	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	50.4	1.0207220	1.0291500		0.8	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	49.9	0.9854780	0.9844015		-0.1	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.2	1.2041190	1.1366850		-5.6	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	48.9	1.1653050	1.1405420		-2.1	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	44.7	1.2525690	1.1191470		-10.7	+/-14
OCDF	A	100.00	88.8	1.1862640	1.0533550		-11.2	+/-37
OCDD	A	100.00	90.2	1.1026670	0.9947295		-9.8	+/-21
13C12-2,3,7,8-TCDF	A	100.00	96.4	1.7680590	1.7047387		-3.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	104	1.1029470	1.1452542		3.8	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	98.9	1.5271250	1.5096183		-1.1	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	96.3	1.4662840	1.4123721		-3.7	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	95.1	0.9141518	0.8690889		-4.9	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	101	1.0536610	1.0674709		1.3	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	102	1.0799530	1.0964197		1.5	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	101	1.0143260	1.0236638		0.9	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	106	0.9279333	0.9860435		6.3	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	100	0.9329336	0.9361701		0.3	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	101	0.9646272	0.9700244		0.6	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	106	1.0360890	1.1006116		6.2	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	106	0.9049372	0.9590427		6.0	+/-23

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>GB00010</u>
Lab File ID:	<u>23020122A</u>	Calibration Date:	<u>02/01/2023</u>
Sequence:	<u>SLA0009</u>	Injection Date:	<u>02/02/23</u>
Lab Sample ID:	<u>SLA0009-ICV1</u>	Injection Time:	<u>06:23</u>
Sequence Name:	<u>CS3R3</u>		

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	107	0.7819773	0.8354894		6.8	+/-28
13C12-OCDD	A	200.00	224	0.7882343	0.8832828		12.1	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.09	1.2334500	1.1207221		-9.1	

\* Values outside of QC limits



Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
**Calibration:** T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

**ID:** CS3R3, **Name:** 23020122, **Date:** 02-Feb-2023, **Time:** 06:23:24, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.882	1.001	5.848e4	7.866e4	0.876	0.743	0.770	1555	1568	8.88e5	1.19e6	570.8	759.4	NO	bb	bb	10.355
12378-PeCDF	30.037	1.001	3.374e5	2.250e5	0.845	1.499	1.550	3159	2038	5.17e6	3.35e6	1634.9	1644.0	NO	bb	bd	49.740
23478-PeCDF	31.374	1.001	3.428e5	2.284e5	0.911	1.500	1.550	3159	2038	5.49e6	3.56e6	1738.9	1747.1	NO	bb	bb	50.053
123478-HxCDF	34.984	1.001	3.047e5	2.394e5	1.182	1.273	1.240	3125	3087	4.94e6	3.79e6	1579.2	1228.0	NO	bd	bd	49.138
234678-HxCDF	35.975	1.000	3.170e5	2.521e5	1.229	1.257	1.240	3125	3087	4.99e6	3.93e6	1597.7	1272.7	NO	bb	bd	51.542
123678-HxCDF	35.118	1.000	3.391e5	2.659e5	1.248	1.275	1.240	3125	3087	4.94e6	3.94e6	1581.6	1275.7	NO	db	db	50.367
123789-HxCDF	37.000	1.000	2.813e5	2.236e5	1.187	1.258	1.240	3125	3087	4.36e6	3.47e6	1393.8	1124.7	NO	bb	bb	49.152
1234678-HpCDF	38.839	1.000	2.722e5	2.769e5	1.204	0.983	1.050	2304	3384	4.58e6	4.56e6	1986.0	1346.4	NO	bb	bd	47.200
1234789-HpCDF	41.089	1.000	2.404e5	2.397e5	1.165	1.003	1.050	2304	3384	3.60e6	3.49e6	1562.9	1031.8	NO	bb	bb	48.938
OCDF	45.339	1.006	3.983e5	4.185e5	1.186	0.952	0.890	2395	1497	4.66e6	5.13e6	1947.1	3427.5	NO	bd	bb	88.796
2378-TCDD	26.517	1.001	5.171e4	6.824e4	1.236	0.758	0.770	995	2117	7.87e5	1.02e6	791.2	480.2	NO	bb	bb	9.553
12378-PeCDD	31.631	1.001	2.593e5	1.643e5	1.087	1.578	1.550	2405	2254	4.03e6	2.57e6	1677.7	1139.7	NO	bb	bb	50.586
123478-HxCDD	36.098	1.000	2.210e5	1.837e5	0.987	1.203	1.240	1885	2172	3.71e6	3.13e6	1969.4	1440.0	NO	bd	bd	49.885
123678-HxCDD	36.209	1.000	2.416e5	1.966e5	1.021	1.229	1.240	1885	2172	3.90e6	3.17e6	2068.3	1461.0	NO	db	db	50.413
123789-HxCDD	36.599	1.011	2.249e5	1.870e5	0.985	1.203	1.240	1885	2172	3.73e6	3.05e6	1980.7	1406.4	NO	bb	bb	49.945
1234678-HpCDD	40.343	1.000	2.106e5	1.999e5	1.253	1.054	1.050	2351	2080	3.22e6	3.02e6	1369.0	1452.3	NO	bb	bb	44.674
OCDD	45.101	1.000	3.571e5	4.142e5	1.103	0.862	0.890	1902	1686	4.50e6	5.15e6	2366.4	3054.5	NO	bb	bb	90.211
13C-2378-TCDF	25.867	1.007	6.661e5	8.455e5	1.768	0.788	0.770	2080	2688	1.01e7	1.27e7	4832.3	4732.8	NO	bb	bb	96.419
13C-12378-PeCDF	30.015	1.169	8.134e5	5.252e5	1.527	1.549	1.550	2214	2402	1.26e7	8.04e6	5673.6	3346.1	NO	bb	bb	98.854
13C-23478-PeCDF	31.352	1.221	7.643e5	4.881e5	1.466	1.566	1.550	2214	2402	1.19e7	7.46e6	5355.6	3106.0	NO	bb	bb	96.323
13C-123478-HxCDF	34.962	0.956	3.183e5	6.188e5	1.054	0.514	0.510	2679	2993	5.19e6	1.01e7	1935.8	3377.6	NO	bd	bd	101.311
13C-123678-HxCDF	35.106	0.960	3.279e5	6.347e5	1.080	0.517	0.510	2679	2993	5.26e6	1.03e7	1963.8	3431.0	NO	db	db	101.525
13C-234678-HxCDF	35.964	0.983	3.079e5	5.908e5	1.014	0.521	0.510	2679	2993	5.18e6	9.96e6	1933.3	3327.7	NO	bb	bb	100.921
13C-123789-HxCDF	36.989	1.011	2.919e5	5.738e5	0.928	0.509	0.510	2679	2993	4.93e6	9.64e6	1839.1	3220.3	NO	bb	bb	106.262
13C-1234678-HpCDF	38.828	1.062	2.987e5	6.675e5	1.036	0.447	0.440	2020	3733	4.99e6	1.11e7	2471.1	2980.7	NO	bb	bb	106.228
13C-1234789-HpCDF	41.078	1.123	2.601e5	5.818e5	0.905	0.447	0.440	2020	3733	3.84e6	8.57e6	1901.9	2294.9	NO	bb	bb	105.979
13C-1234-TCDD	25.685	0.000	3.923e5	4.945e5	1.000	0.793	0.770	1964	1228	5.89e6	7.43e6	3002.1	6052.1	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.032	4.486e5	5.669e5	1.103	0.791	0.770	1964	1228	6.92e6	8.78e6	3526.0	7149.4	NO	bb	bb	103.836
13C-12378-PeCDD	31.608	1.231	4.707e5	3.000e5	0.914	1.569	1.550	1506	1224	7.29e6	4.48e6	4842.2	3660.9	NO	bb	bb	95.071
13C-123478-HxCDD	36.087	0.987	4.672e5	3.547e5	0.933	1.317	1.240	1965	1411	7.78e6	5.85e6	3957.9	4143.5	NO	bd	bd	100.347
13C-123678-HxCDD	36.198	0.990	4.819e5	3.696e5	0.965	1.304	1.240	1965	1411	7.82e6	6.15e6	3978.0	4360.5	NO	db	db	100.559
13C-1234678-HpCDD	40.332	1.103	3.801e5	3.533e5	0.782	1.076	1.050	1575	2170	5.87e6	5.49e6	3730.3	2529.7	NO	bb	bb	106.843
13C-OCDD	45.083	1.233	7.366e5	8.143e5	0.788	0.905	0.890	3063	2193	9.16e6	1.01e7	2991.6	4611.6	NO	bb	bb	224.117
13C-123789-HxCDD	36.577	0.000	4.917e5	3.862e5	1.000	1.273	1.240	1965	1411	7.85e6	6.09e6	3995.6	4315.2	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	9.938e4		1.233			1696		1.52e6		894.1			bd		9.086

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

**ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.374	0.865	6.865e4	8.848e4	1.064	0.776	0.770	1555	1568	1.11e6	1.44e6	716.0	918.9	NO	bb	bb	9.765
1289-TCDF	27.378	1.058	5.660e4	7.418e4	0.858	0.763	0.770	1555	1568	8.24e5	1.10e6	529.6	699.1	NO	dd	db	10.087
13468-PECDF	27.227	0.907	3.894e5	2.552e5	1.013	1.526	1.550	908	944	5.82e6	3.85e6	6403.8	4077.1	NO	bb	bb	47.544
12389-PECDF	32.410	1.080	3.246e5	2.198e5	0.844	1.476	1.550	3159	2038	4.84e6	3.20e6	1531.6	1571.0	NO	bb	bd	48.204
123468-HXCDF	33.324	0.953	3.099e5	2.450e5	1.197	1.265	1.240	3125	3087	4.72e6	3.73e6	1509.6	1208.8	NO	bb	bb	49.459
1368-TCDD	23.659	0.893	4.927e4	6.128e4	1.084	0.804	0.770	995	2117	7.64e5	9.54e5	767.8	450.6	NO	bb	bb	10.039
1289-TCDD	27.122	1.023	4.427e4	5.254e4	0.975	0.843	0.770	995	2117	6.48e5	7.87e5	651.5	371.6	NO	bb	bb	9.776
12479-PECDD	28.912	0.915	4.425e5	2.789e5	1.837	1.587	1.550	2405	2254	4.30e6	2.77e6	1787.0	1227.0	NO	bb	bb	50.953
12389-PECDD	32.020	1.013	2.965e5	1.883e5	1.252	1.574	1.550	2405	2254	4.62e6	2.91e6	1919.5	1289.1	NO	bb	bb	50.236
124679-HXCDD	34.092	0.945	2.310e5	1.913e5	1.033	1.207	1.240	1885	2172	3.69e6	3.08e6	1958.1	1418.4	NO	bb	bb	49.756
1234679-HPCDD	39.296	0.974	2.314e5	2.312e5	1.286	1.001	1.050	2351	2080	3.70e6	3.56e6	1572.0	1712.4	NO	bb	bd	49.036
Total-tetrafurans			1.843e5		0.933			1555		2.83e6							30.308
Total-penta1			3.894e5					908		5.82e6							47.544
Total-pentafurans			1.058e6		0.866			3159		1.63e7							155.951
Total-hexafurans			1.552e6		1.208			3125		2.39e7							249.657
Total-heptafurans			5.141e5		1.185			2304		8.20e6							96.394
Total-Furans			4.096e6		1.067			1555		6.18e7							668.651
Total-tetradoxins			2.456e5		1.099			995		3.39e6							49.555
Total-pentadoxins			9.996e5		1.392			2405		1.30e7							151.960
Total-hexadoxins			9.188e5		1.007			1885		1.50e7							200.058
Total-heptadoxins			4.419e5		1.269			2351		6.91e6							93.710
Total-Dioxins			2.963e6		1.165			995		4.28e7							585.494
Total-TEQ			7.059e6					995		1.05e8							1254.145
FUNCTION1 PFK			1.317e7					418343		1.22e8							
FUNCTION2 PFK			4.029e4					170786		1.35e6							0.000
FUNCTION3 PFK			7.918e4					332991		2.63e6							0.000
FUNCTION4 PFK			1.213e5					250386		2.77e6							
FUNCTION5 PFK			0.000e0					170456		0.00e0							
FUNCTION1 HXCD...			9.564e2					673		1.33e4							0.000
FUNCTION1 HPCD...			1.126e3					836		1.61e4							0.000
FUNCTION2 HPCD...			8.375e2					763		2.05e4							0.000
FUNCTION3 OCDPE			5.165e2					620		9.18e3							0.000
FUNCTION4 NCDPE			5.192e2					895		1.04e4							0.000
FUNCTION5 DCDPE			7.635e1					736		1.89e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin2301311H.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\2302011CIH.cdb 03 Feb 2023 10:33:40****ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	5.660e4	7.418e4	0.858	0.76	0.77	529.6	YES	NO	dd	db	10.087
2	2378-TCDF	25.88	5.848e4	7.866e4	0.876	0.74	0.77	570.8	YES	NO	bb	bb	10.355
3	Total-tetrafurans	24.64	5.880e2	8.311e2	0.933	0.71	0.77	5.3	YES	NO	bd	bb	0.101
4	1368-TCDF	22.37	6.865e4	8.848e4	1.064	0.78	0.77	716.0	YES	NO	bb	bb	9.765

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.23	3.894e5	2.552e5	1.013	1.53	1.55	6403.8	YES	NO	bb	bb	47.544

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.37	3.428e5	2.284e5	0.911	1.50	1.55	1738.9	YES	NO	bb	bb	50.053
2	12378-PeCDF	30.04	3.374e5	2.250e5	0.845	1.50	1.55	1634.9	YES	NO	bb	bd	49.740
3	Total-pentafurans	28.89	5.305e4	3.624e4	0.866	1.46	1.55	261.2	YES	NO	bb	bd	7.954
4	12389-PECDF	32.41	3.246e5	2.198e5	0.844	1.48	1.55	1531.6	YES	NO	bb	bd	48.204

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.98	3.047e5	2.394e5	1.182	1.27	1.24	1579.2	YES	NO	bd	bd	49.138
2	123468-HxCDF	33.32	3.099e5	2.450e5	1.197	1.26	1.24	1509.6	YES	NO	bb	bb	49.459
3	123789-HxCDF	37.00	2.813e5	2.236e5	1.187	1.26	1.24	1393.8	YES	NO	bb	bb	49.152
4	234678-HxCDF	35.98	3.170e5	2.521e5	1.229	1.26	1.24	1597.7	YES	NO	bb	bd	51.542
5	123678-HxCDF	35.12	3.391e5	2.659e5	1.248	1.28	1.24	1581.6	YES	NO	db	db	50.367

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.09	2.404e5	2.397e5	1.165	1.00	1.05	1562.9	YES	NO	bb	bb	48.938
2	Total-heptafurans	39.50	1.473e3	1.272e3	1.185	1.16	1.05	9.2	YES	NO	bb	bb	0.256
3	1234678-HpCDF	38.84	2.722e5	2.769e5	1.204	0.98	1.05	1986.0	YES	NO	bb	bd	47.200

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\2302011H.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

**ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	5.660e4	7.418e4	0.858	0.76	0.77	529.6	YES	NO	dd	db	10.087
2	2378-TCDF	25.88	5.848e4	7.866e4	0.876	0.74	0.77	570.8	YES	NO	bb	bb	10.355
3	Total-tetrafurans	24.64	5.880e2	8.311e2	0.933	0.71	0.77	5.3	YES	NO	bd	bb	0.101
4	1368-TCDF	22.37	6.865e4	8.848e4	1.064	0.78	0.77	716.0	YES	NO	bb	bb	9.765
5	23478-PeCDF	31.37	3.428e5	2.284e5	0.911	1.50	1.55	1738.9	YES	NO	bb	bb	50.053
6	12378-PeCDF	30.04	3.374e5	2.250e5	0.845	1.50	1.55	1634.9	YES	NO	bb	bd	49.740
7	Total-pentafurans	28.89	5.305e4	3.624e4	0.866	1.46	1.55	261.2	YES	NO	bb	bd	7.954
8	123478-HxCDF	34.98	3.047e5	2.394e5	1.182	1.27	1.24	1579.2	YES	NO	bd	bd	49.138
9	123468-HxCDF	33.32	3.099e5	2.450e5	1.197	1.26	1.24	1509.6	YES	NO	bb	bb	49.459
10	12389-PECDF	32.41	3.246e5	2.198e5	0.844	1.48	1.55	1531.6	YES	NO	bb	bd	48.204
11	123789-HxCDF	37.00	2.813e5	2.236e5	1.187	1.26	1.24	1393.8	YES	NO	bb	bb	49.152
12	234678-HxCDF	35.98	3.170e5	2.521e5	1.229	1.26	1.24	1597.7	YES	NO	bb	bd	51.542
13	123678-HxCDF	35.12	3.391e5	2.659e5	1.248	1.28	1.24	1581.6	YES	NO	db	db	50.367
14	1234789-HpCDF	41.09	2.404e5	2.397e5	1.165	1.00	1.05	1562.9	YES	NO	bb	bb	48.938
15	Total-heptafurans	39.50	1.473e3	1.272e3	1.185	1.16	1.05	9.2	YES	NO	bb	bb	0.256
16	1234678-HpCDF	38.84	2.722e5	2.769e5	1.204	0.98	1.05	1986.0	YES	NO	bb	bd	47.200
17	OCDF	45.34	3.983e5	4.185e5	1.186	0.95	0.89	1947.1	YES	NO	bd	bb	88.796
18	13468-PECDF	27.23	3.894e5	2.552e5	1.013	1.53	1.55	6403.8	YES	NO	bb	bb	47.544

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.72	2.422e4	3.053e4	1.099	0.79	0.77	381.0	YES	NO	bd	bb	4.907
2	1368-TCDD	23.66	4.927e4	6.128e4	1.084	0.80	0.77	767.8	YES	NO	bb	bb	10.039
3	1289-TCDD	27.12	4.427e4	5.254e4	0.975	0.84	0.77	651.5	YES	NO	bb	bb	9.776
4	2378-TCDD	26.52	5.171e4	6.824e4	1.236	0.76	0.77	791.2	YES	NO	bb	bb	9.553
5	Total-tetradoxins	26.20	7.611e4	9.435e4	1.099	0.81	0.77	812.8	YES	NO	bb	bb	15.278

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.02	2.965e5	1.883e5	1.252	1.57	1.55	1919.5	YES	NO	bb	bb	50.236
2	12378-PeCDD	31.63	2.593e5	1.643e5	1.087	1.58	1.55	1677.7	YES	NO	bb	bb	50.586
3	Total-pentadoxins	30.95	1.247e3	7.403e2	1.392	1.68	1.55	8.2	YES	NO	bd	bb	0.185
4	12479-PECDD	28.91	4.425e5	2.789e5	1.837	1.59	1.55	1787.0	YES	NO	bb	bb	50.953

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

**ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk****HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.21	2.416e5	1.966e5	1.021	1.23	1.24	2068.3	YES	NO	db	db	50.413
2	123478-HxCDD	36.10	2.210e5	1.837e5	0.987	1.20	1.24	1969.4	YES	NO	bd	bd	49.885
3	124679-HxCDD	34.09	2.310e5	1.913e5	1.033	1.21	1.24	1958.1	YES	NO	bb	bb	49.756
4	Total-hexadioxins	36.98	2.868e2	2.088e2	1.007	1.37	1.24	3.4	YES	NO	db	bd	0.059
5	123789-HxCDD	36.60	2.249e5	1.870e5	0.985	1.20	1.24	1980.7	YES	NO	bb	bb	49.945

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.34	2.106e5	1.999e5	1.253	1.05	1.05	1369.0	YES	NO	bb	bb	44.674
2	1234679-HPCDD	39.30	2.314e5	2.312e5	1.286	1.00	1.05	1572.0	YES	NO	bb	bd	49.036

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.72	2.422e4	3.053e4	1.099	0.79	0.77	381.0	YES	NO	bd	bb	4.907
2	1368-TCDD	23.66	4.927e4	6.128e4	1.084	0.80	0.77	767.8	YES	NO	bb	bb	10.039
3	1289-TCDD	27.12	4.427e4	5.254e4	0.975	0.84	0.77	651.5	YES	NO	bb	bb	9.776
4	2378-TCDD	26.52	5.171e4	6.824e4	1.236	0.76	0.77	791.2	YES	NO	bb	bb	9.553
5	Total-tetradioxins	26.20	7.611e4	9.435e4	1.099	0.81	0.77	812.8	YES	NO	bb	bb	15.278
6	12389-PECDD	32.02	2.965e5	1.883e5	1.252	1.57	1.55	1919.5	YES	NO	bb	bb	50.236
7	12378-PeCDD	31.63	2.593e5	1.643e5	1.087	1.58	1.55	1677.7	YES	NO	bb	bb	50.586
8	Total-pentadioxins	30.95	1.247e3	7.403e2	1.392	1.68	1.55	8.2	YES	NO	bd	bb	0.185
9	12479-PECDD	28.91	4.425e5	2.789e5	1.837	1.59	1.55	1787.0	YES	NO	bb	bb	50.953
10	123678-HxCDD	36.21	2.416e5	1.966e5	1.021	1.23	1.24	2068.3	YES	NO	db	db	50.413
11	123478-HxCDD	36.10	2.210e5	1.837e5	0.987	1.20	1.24	1969.4	YES	NO	bd	bd	49.885
12	124679-HxCDD	34.09	2.310e5	1.913e5	1.033	1.21	1.24	1958.1	YES	NO	bb	bb	49.756
13	Total-hexadioxins	36.98	2.868e2	2.088e2	1.007	1.37	1.24	3.4	YES	NO	db	bd	0.059
14	123789-HxCDD	36.60	2.249e5	1.870e5	0.985	1.20	1.24	1980.7	YES	NO	bb	bb	49.945
15	1234678-HpCDD	40.34	2.106e5	1.999e5	1.253	1.05	1.05	1369.0	YES	NO	bb	bb	44.674
16	1234679-HPCDD	39.30	2.314e5	2.312e5	1.286	1.00	1.05	1572.0	YES	NO	bb	bd	49.036
17	OCDD	45.10	3.571e5	4.142e5	1.103	0.86	0.89	2366.4	YES	NO	bb	bb	90.211

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

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ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	5.660e4	7.418e4	0.858	0.76	0.77	529.6	YES	NO	dd	db	10.087
2	2378-TCDF	25.88	5.848e4	7.866e4	0.876	0.74	0.77	570.8	YES	NO	bb	bb	10.355
3	Total-tetrafurans	24.64	5.880e2	8.311e2	0.933	0.71	0.77	5.3	YES	NO	bd	bb	0.101
4	1368-TCDF	22.37	6.865e4	8.848e4	1.064	0.78	0.77	716.0	YES	NO	bb	bb	9.765
5	23478-PeCDF	31.37	3.428e5	2.284e5	0.911	1.50	1.55	1738.9	YES	NO	bb	bb	50.053
6	12378-PeCDF	30.04	3.374e5	2.250e5	0.845	1.50	1.55	1634.9	YES	NO	bb	bd	49.740
7	Total-pentafurans	28.89	5.305e4	3.624e4	0.866	1.46	1.55	261.2	YES	NO	bb	bd	7.954
8	123478-HxCDF	34.98	3.047e5	2.394e5	1.182	1.27	1.24	1579.2	YES	NO	bd	bd	49.138
9	123468-HXCDF	33.32	3.099e5	2.450e5	1.197	1.26	1.24	1509.6	YES	NO	bb	bb	49.459
10	12389-PECDF	32.41	3.246e5	2.198e5	0.844	1.48	1.55	1531.6	YES	NO	bb	bd	48.204
11	123789-HxCDF	37.00	2.813e5	2.236e5	1.187	1.26	1.24	1393.8	YES	NO	bb	bb	49.152
12	234678-HxCDF	35.98	3.170e5	2.521e5	1.229	1.26	1.24	1597.7	YES	NO	bb	bd	51.542
13	123678-HxCDF	35.12	3.391e5	2.659e5	1.248	1.28	1.24	1581.6	YES	NO	db	db	50.367
14	1234789-HpCDF	41.09	2.404e5	2.397e5	1.165	1.00	1.05	1562.9	YES	NO	bb	bb	48.938
15	Total-heptafurans	39.50	1.473e3	1.272e3	1.185	1.16	1.05	9.2	YES	NO	bb	bb	0.256
16	1234678-HpCDF	38.84	2.722e5	2.769e5	1.204	0.98	1.05	1986.0	YES	NO	bb	bd	47.200
17	OCDF	45.34	3.983e5	4.185e5	1.186	0.95	0.89	1947.1	YES	NO	bd	bb	88.796
18	13468-PECDF	27.23	3.894e5	2.552e5	1.013	1.53	1.55	6403.8	YES	NO	bb	bb	47.544
19	Total-tetradioxins	25.72	2.422e4	3.053e4	1.099	0.79	0.77	381.0	YES	NO	bd	bb	4.907
20	1368-TCDD	23.66	4.927e4	6.128e4	1.084	0.80	0.77	767.8	YES	NO	bb	bb	10.039
21	1289-TCDD	27.12	4.427e4	5.254e4	0.975	0.84	0.77	651.5	YES	NO	bb	bb	9.776
22	2378-TCDD	26.52	5.171e4	6.824e4	1.236	0.76	0.77	791.2	YES	NO	bb	bb	9.553
23	Total-tetradioxins	26.20	7.611e4	9.435e4	1.099	0.81	0.77	812.8	YES	NO	bb	bb	15.278
24	12389-PECDD	32.02	2.965e5	1.883e5	1.252	1.57	1.55	1919.5	YES	NO	bb	bb	50.236
25	12378-PeCDD	31.63	2.593e5	1.643e5	1.087	1.58	1.55	1677.7	YES	NO	bb	bb	50.586
26	Total-pentadioxins	30.95	1.247e3	7.403e2	1.392	1.68	1.55	8.2	YES	NO	bd	bb	0.185
27	12479-PECDD	28.91	4.425e5	2.789e5	1.837	1.59	1.55	1787.0	YES	NO	bb	bb	50.953
28	123678-HxCDD	36.21	2.416e5	1.966e5	1.021	1.23	1.24	2068.3	YES	NO	db	db	50.413
29	123478-HxCDD	36.10	2.210e5	1.837e5	0.987	1.20	1.24	1969.4	YES	NO	bd	bd	49.885
30	124679-HXCDD	34.09	2.310e5	1.913e5	1.033	1.21	1.24	1958.1	YES	NO	bb	bb	49.756
31	Total-hexadioxins	36.98	2.868e2	2.088e2	1.007	1.37	1.24	3.4	YES	NO	db	bd	0.059
32	123789-HxCDD	36.60	2.249e5	1.870e5	0.985	1.20	1.24	1980.7	YES	NO	bb	bb	49.945
33	1234678-HpCDD	40.34	2.106e5	1.999e5	1.253	1.05	1.05	1369.0	YES	NO	bb	bb	44.674
34	1234679-HPCDD	39.30	2.314e5	2.312e5	1.286	1.00	1.05	1572.0	YES	NO	bb	bd	49.036
35	OCDD	45.10	3.571e5	4.142e5	1.103	0.86	0.89	2366.4	YES	NO	bb	bb	90.211

## Quantify Totals Report MassLynx V4.1 SCN909

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ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.68	7.036e5					22.7	YES		dd		
2	FUNCTION1 PFK	21.60	7.515e5					24.4	YES		dd		
3	FUNCTION1 PFK	21.54	4.649e5					24.9	YES		dd		
4	FUNCTION1 PFK	21.48	1.338e6					26.5	YES		dd		
5	FUNCTION1 PFK	21.35	3.446e6					29.5	YES		dd		
6	FUNCTION1 PFK	21.13	1.023e6					32.6	YES		bd		
7	FUNCTION1 PFK	23.52	2.331e4					1.2	NO		dd		
8	FUNCTION1 PFK	23.43	3.672e4					1.5	NO		dd		
9	FUNCTION1 PFK	23.37	1.015e4					0.8	NO		bd		
10	FUNCTION1 PFK	23.30	6.031e3					0.5	NO		bb		
11	FUNCTION1 PFK	23.24	8.330e3					0.7	NO		bb		
12	FUNCTION1 PFK	23.18	3.171e3					0.5	NO		bb		
13	FUNCTION1 PFK	23.05	3.200e4					1.3	NO		bb		
14	FUNCTION1 PFK	22.83	3.984e3					0.6	NO		bb		
15	FUNCTION1 PFK	22.71	3.748e4					1.9	NO		db		
16	FUNCTION1 PFK	22.63	9.328e4					3.5	YES		dd		
17	FUNCTION1 PFK	22.51	2.652e5					6.5	YES		dd		
18	FUNCTION1 PFK	22.39	3.729e5					8.4	YES		dd		
19	FUNCTION1 PFK	22.21	7.966e5					12.4	YES		dd		
20	FUNCTION1 PFK	22.07	1.264e6					14.8	YES		dd		
21	FUNCTION1 PFK	21.88	9.014e5					19.1	YES		dd		
22	FUNCTION1 PFK	21.75	1.030e6					21.5	YES		dd		
23	FUNCTION1 PFK	24.99	7.500e3					0.6	NO		bb		
24	FUNCTION1 PFK	24.87	1.873e4					1.1	NO		bb		
25	FUNCTION1 PFK	24.73	1.622e4					1.0	NO		db		
26	FUNCTION1 PFK	24.67	1.601e4					1.2	NO		dd		
27	FUNCTION1 PFK	24.60	8.145e3					0.6	NO		bd		
28	FUNCTION1 PFK	24.55	3.330e3					0.5	NO		bb		
29	FUNCTION1 PFK	24.49	6.886e3					0.5	NO		bb		
30	FUNCTION1 PFK	24.43	4.086e3					0.5	NO		bb		
31	FUNCTION1 PFK	24.28	1.632e4					0.8	NO		bb		
32	FUNCTION1 PFK	24.22	3.256e3					0.5	NO		bb		
33	FUNCTION1 PFK	24.10	3.572e3					0.4	NO		bb		
34	FUNCTION1 PFK	23.96	3.560e3					0.6	NO		bb		
35	FUNCTION1 PFK	23.89	1.519e4					1.1	NO		bb		
36	FUNCTION1 PFK	23.76	4.276e4					1.2	NO		db		
37	FUNCTION1 PFK	23.64	1.953e4					1.1	NO		bd		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

**ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	23.58	2.764e4					1.6	NO		db		
39	FUNCTION1 PFK	26.64	3.455e3					0.5	NO		bb		
40	FUNCTION1 PFK	26.58	2.746e3					0.4	NO		bb		
41	FUNCTION1 PFK	26.52	9.469e3					0.9	NO		bb		
42	FUNCTION1 PFK	26.38	5.973e3					0.5	NO		bb		
43	FUNCTION1 PFK	26.23	1.524e4					0.8	NO		db		
44	FUNCTION1 PFK	26.18	1.102e4					0.8	NO		bd		
45	FUNCTION1 PFK	25.97	5.433e3					0.5	NO		db		
46	FUNCTION1 PFK	25.93	2.783e3					0.4	NO		bd		
47	FUNCTION1 PFK	25.85	1.403e4					1.0	NO		bb		
48	FUNCTION1 PFK	25.73	1.878e4					0.8	NO		bb		
49	FUNCTION1 PFK	25.61	1.855e4					1.1	NO		bb		
50	FUNCTION1 PFK	25.52	1.038e4					0.8	NO		bb		
51	FUNCTION1 PFK	25.38	4.622e3					0.5	NO		bb		
52	FUNCTION1 PFK	25.26	2.188e3					0.3	NO		bb		
53	FUNCTION1 PFK	25.20	1.540e4					1.2	NO		db		
54	FUNCTION1 PFK	25.14	4.977e3					0.4	NO		bd		
55	FUNCTION1 PFK	28.10	6.804e3					0.6	NO		bb		
56	FUNCTION1 PFK	27.97	1.778e4					1.0	NO		bb		
57	FUNCTION1 PFK	27.85	2.046e4					1.1	NO		bb		
58	FUNCTION1 PFK	27.71	2.315e4					1.4	NO		bb		
59	FUNCTION1 PFK	27.64	3.743e4					1.2	NO		db		
60	FUNCTION1 PFK	27.48	2.468e4					1.2	NO		bd		
61	FUNCTION1 PFK	27.35	2.395e4					0.8	NO		bb		
62	FUNCTION1 PFK	27.23	4.417e3					0.4	NO		bb		
63	FUNCTION1 PFK	27.15	1.158e4					0.9	NO		bb		
64	FUNCTION1 PFK	27.03	7.953e3					0.7	NO		bb		
65	FUNCTION1 PFK	26.83	1.283e4					0.8	NO		db		
66	FUNCTION1 PFK	26.77	7.401e3					0.5	NO		bd		



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

**ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk****PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.41	3.356e3					0.8	NO		bb		0.000
2	FUNCTION2 PFK	28.34	6.259e3					1.1	NO		db		0.000
3	FUNCTION2 PFK	28.31	5.082e3					1.3	NO		bd		0.000
4	FUNCTION2 PFK	31.56	1.170e4					1.5	NO		bb		0.000
5	FUNCTION2 PFK	31.14	3.029e3					0.9	NO		bb		0.000
6	FUNCTION2 PFK	30.94	8.930e3					1.7	NO		bb		0.000
7	FUNCTION2 PFK	29.74	1.935e3					0.7	NO		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.67	8.745e3					1.0	NO		db		0.000
2	FUNCTION3 PFK	37.64	3.137e3					0.7	NO		bd		0.000
3	FUNCTION3 PFK	36.21	6.920e3					1.0	NO		bb		0.000
4	FUNCTION3 PFK	35.84	1.562e4					1.6	NO		bb		0.000
5	FUNCTION3 PFK	34.57	1.380e4					1.4	NO		bb		0.000
6	FUNCTION3 PFK	34.13	2.623e4					1.4	NO		bb		0.000
7	FUNCTION3 PFK	33.42	4.729e3					0.8	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.10	1.221e3					0.4	NO		bb		
2	FUNCTION4 PFK	38.59	1.721e3					0.6	NO		bb		
3	FUNCTION4 PFK	38.36	1.952e4					1.8	NO		bb		
4	FUNCTION4 PFK	42.28	1.700e4					1.4	NO		bb		
5	FUNCTION4 PFK	42.08	6.487e3					1.2	NO		bb		
6	FUNCTION4 PFK	41.20	1.773e4					1.2	NO		bb		
7	FUNCTION4 PFK	39.67	1.683e4					1.7	NO		db		
8	FUNCTION4 PFK	39.54	4.083e4					2.7	NO		bd		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

## ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.54	1.259e2					2.2	NO		bb		0.000
2	FUNCTION1 HXCD...	27.27	7.803e1					1.3	NO		bb		0.000
3	FUNCTION1 HXCD...	25.29	2.218e2					4.0	YES		bb		0.000
4	FUNCTION1 HXCD...	24.84	1.321e2					2.4	NO		bb		0.000
5	FUNCTION1 HXCD...	23.11	1.158e2					2.9	NO		bb		0.000
6	FUNCTION1 HXCD...	22.07	7.972e1					2.2	NO		bb		0.000
7	FUNCTION1 HXCD...	21.84	7.624e1					1.7	NO		db		0.000
8	FUNCTION1 HXCD...	21.71	1.268e2					3.1	YES		bd		0.000

## ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.97	1.852e2					1.3	NO		bb		0.000
2	FUNCTION1 HPCD...	26.59	1.818e2					2.4	NO		db		0.000
3	FUNCTION1 HPCD...	26.49	8.802e1					2.1	NO		dd		0.000
4	FUNCTION1 HPCD...	26.37	9.127e1					1.9	NO		bd		0.000
5	FUNCTION1 HPCD...	25.31	1.235e2					3.4	YES		db		0.000
6	FUNCTION1 HPCD...	25.20	1.034e2					2.2	NO		bd		0.000
7	FUNCTION1 HPCD...	24.05	7.524e1					1.8	NO		bb		0.000
8	FUNCTION1 HPCD...	23.45	7.121e1					1.4	NO		bb		0.000
9	FUNCTION1 HPCD...	22.40	8.994e1					2.2	NO		bb		0.000
10	FUNCTION1 HPCD...	21.41	1.169e2					0.7	NO		bb		0.000

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.78	8.688e1					4.4	YES		db		0.000
2	FUNCTION2 HPCD...	31.70	9.719e1					4.5	YES		bd		0.000
3	FUNCTION2 HPCD...	31.26	4.273e2					9.8	YES		bb		0.000
4	FUNCTION2 HPCD...	31.14	7.551e1					2.2	NO		bb		0.000
5	FUNCTION2 HPCD...	29.02	7.105e1					3.5	YES		bb		0.000
6	FUNCTION2 HPCD...	32.43	7.967e1					2.4	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:05:07 Pacific Standard Time

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.60	1.408e2					3.7	YES		bb		0.000
2	FUNCTION3 OCDPE	36.19	9.013e1					2.6	NO		db		0.000
3	FUNCTION3 OCDPE	36.08	8.521e1					2.5	NO		bd		0.000
4	FUNCTION3 OCDPE	35.49	7.687e1					2.7	NO		db		0.000
5	FUNCTION3 OCDPE	35.42	1.235e2					3.3	YES		bd		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.01	1.018e2					1.9	NO		db		0.000
2	FUNCTION4 NCDPE	41.96	1.179e2					2.4	NO		bd		0.000
3	FUNCTION4 NCDPE	39.81	7.370e1					1.7	NO		bb		0.000
4	FUNCTION4 NCDPE	39.17	1.506e2					4.1	YES		bb		0.000
5	FUNCTION4 NCDPE	38.50	7.519e1					1.7	NO		bb		0.000

**ETHERS6**

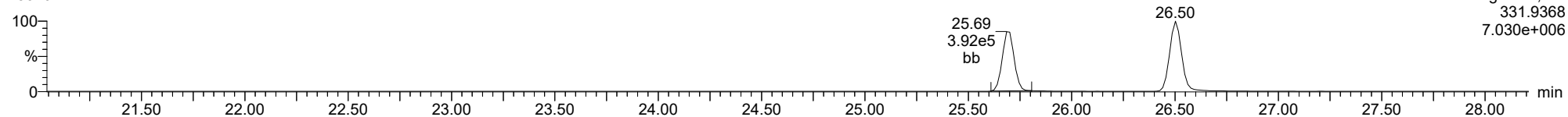
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	46.22	7.635e1					2.6	NO		bb		0.000

**Method:** T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
**Calibration:** T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

**ID:** CS3R3, **Name:** 23020122, **Date:** 02-Feb-2023, **Time:** 06:23:24, **Conditions:** AUTOSPEC01, **User:** pk

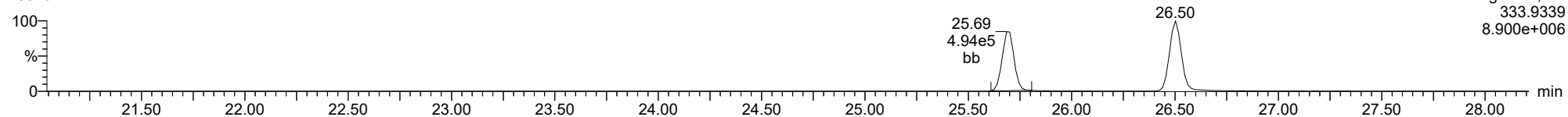
**13C-1234-TCDD**

23020122



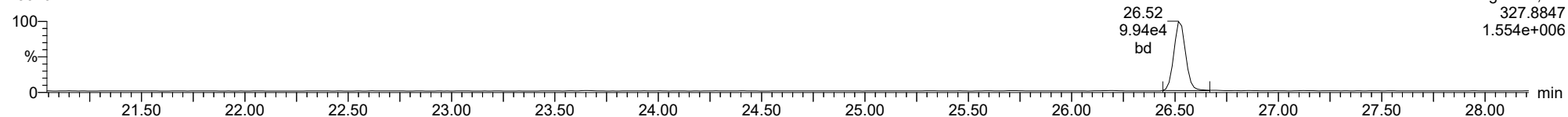
**13C-1234-TCDD**

23020122



**37CL-2378-TCDD**

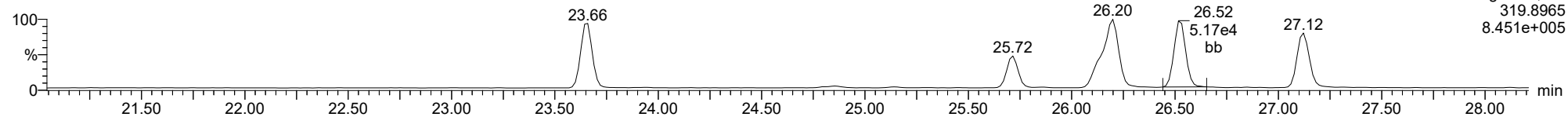
23020122



ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

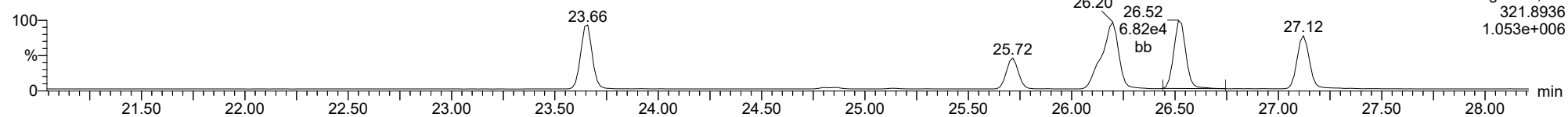
**2378-TCDD**

23020122



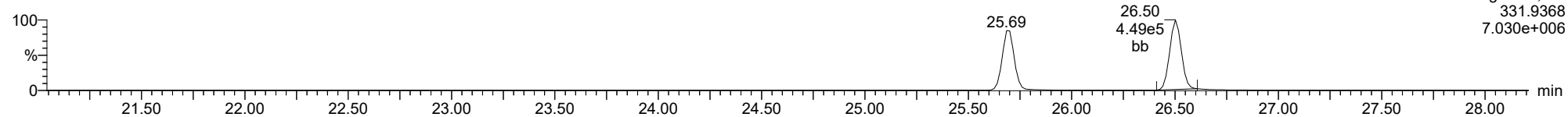
**2378-TCDD**

23020122



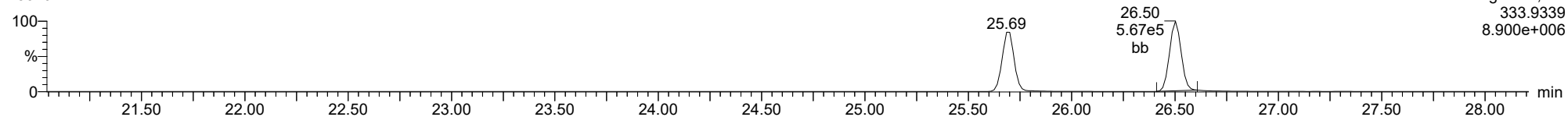
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23020122



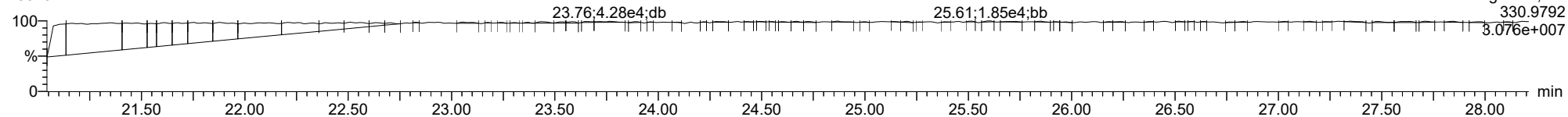
**13C-2378-TCDD**

23020122



**FUNCTION1 PFK**

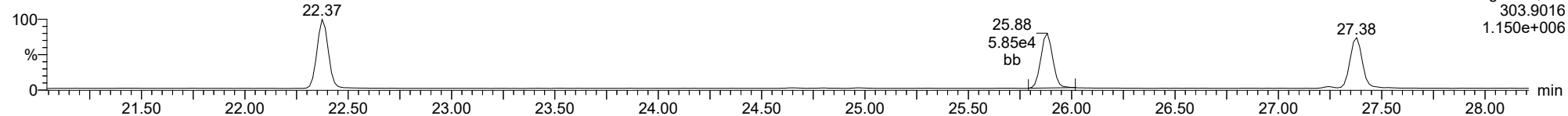
23020122



ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**2378-TCDF**

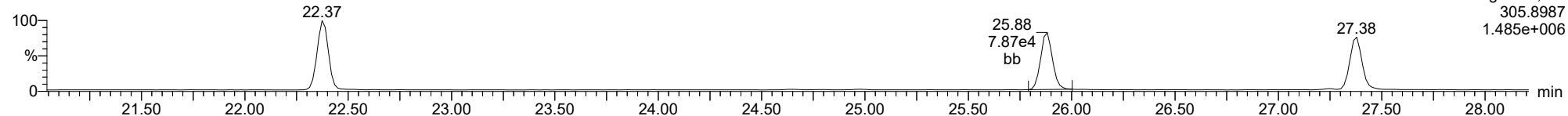
23020122



F1:Voltage SIR,EI+  
303.9016  
1.150e+006

**2378-TCDF**

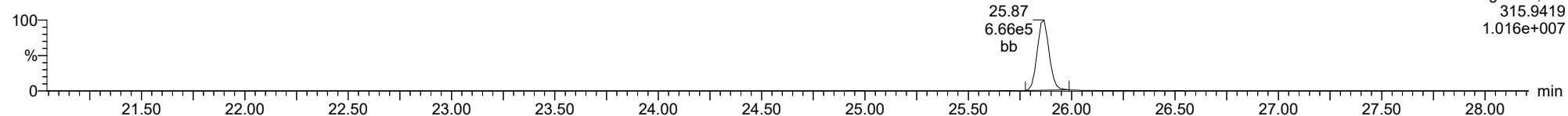
23020122



F1:Voltage SIR,EI+  
305.8987  
1.485e+006

**13C-2378-TCDF**

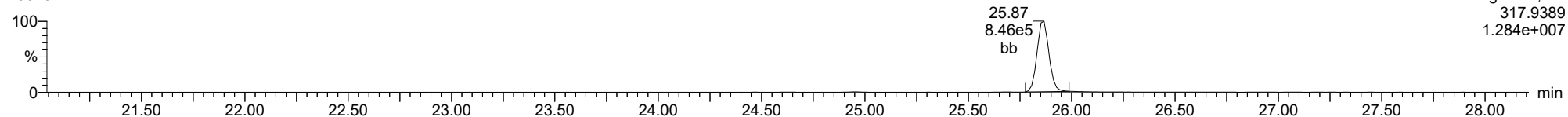
23020122



F1:Voltage SIR,EI+  
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1.016e+007

**13C-2378-TCDF**

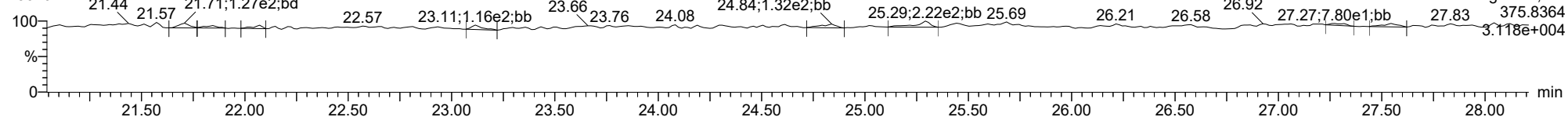
23020122



F1:Voltage SIR,EI+  
317.9389  
1.284e+007

**FUNCTION1 HXCDPE**

23020122

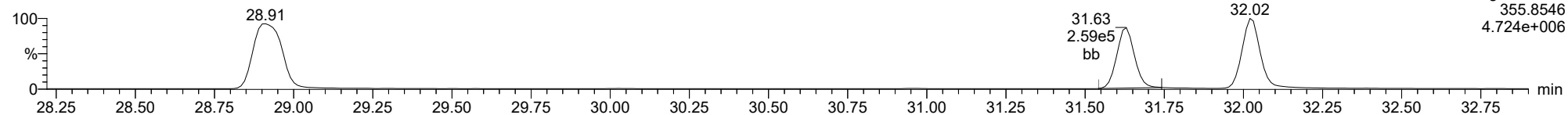


F1:Voltage SIR,EI+  
375.8364  
3.118e+004

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

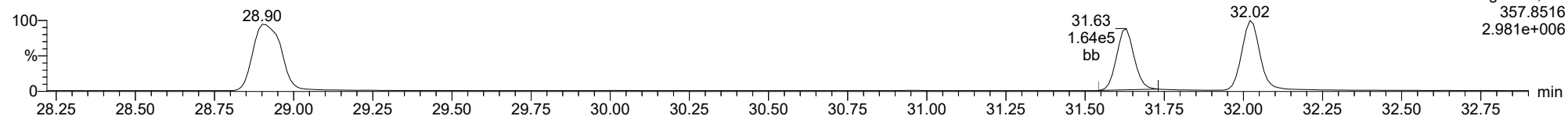
**12378-PeCDD**

23020122



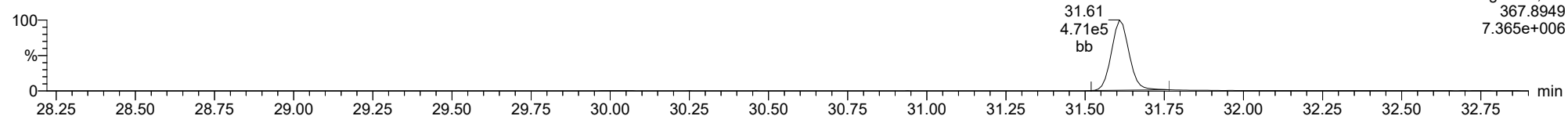
**12378-PeCDD**

23020122



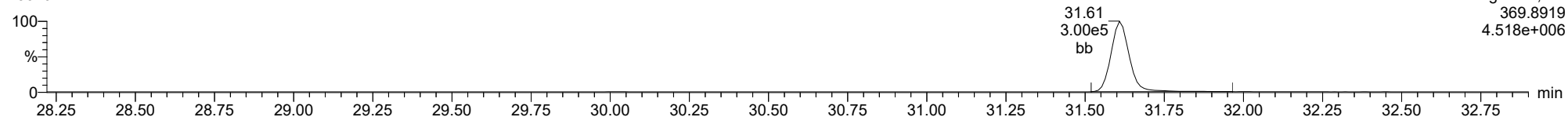
**13C-12378-PeCDD**

23020122



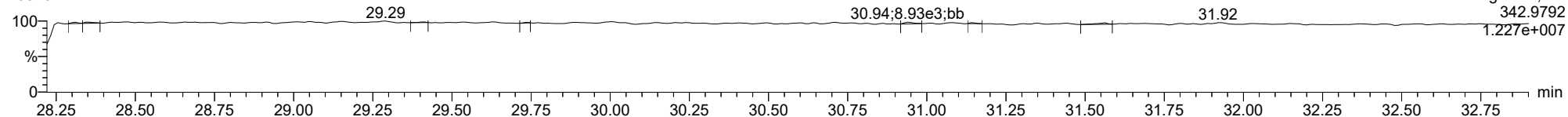
**13C-12378-PeCDD**

23020122



**FUNCTION2 PFK**

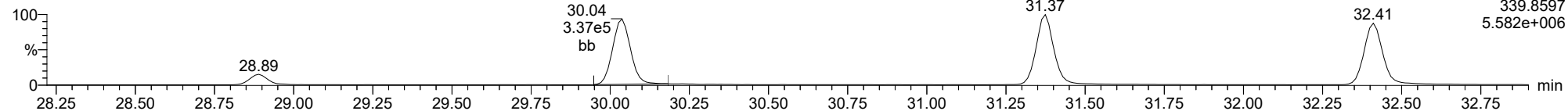
23020122



ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

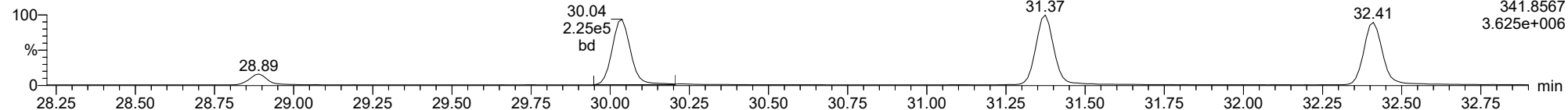
**12378-PeCDF**

23020122



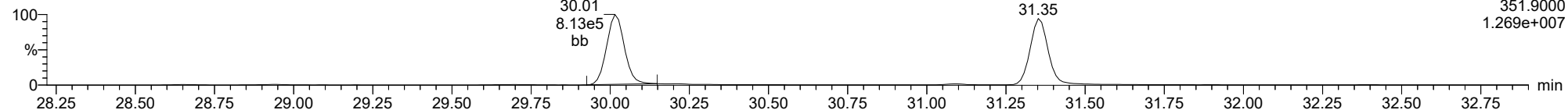
**12378-PeCDF**

23020122



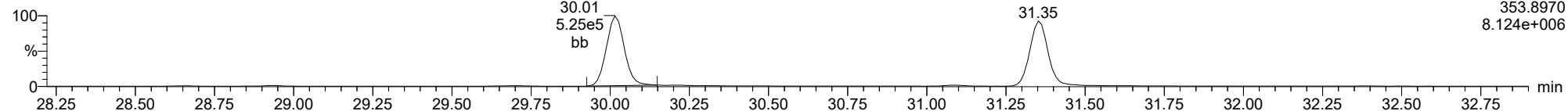
**13C-12378-PeCDF**

23020122



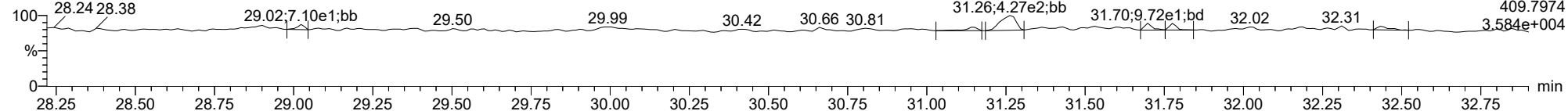
**13C-12378-PeCDF**

23020122



**FUNCTION2 HPCDPE**

23020122

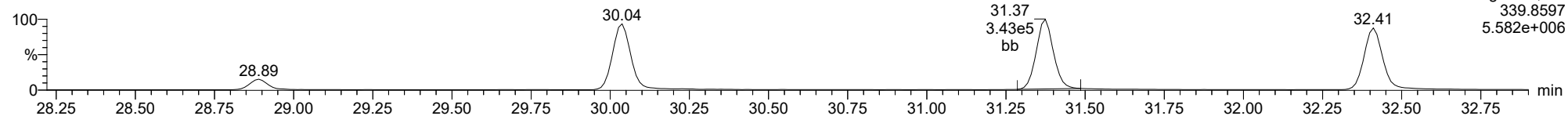




ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

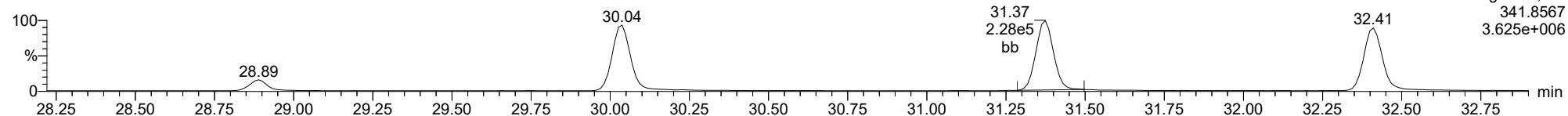
23020122



F2:Voltage SIR,EI+  
339.8597  
5.582e+006

**23478-PeCDF**

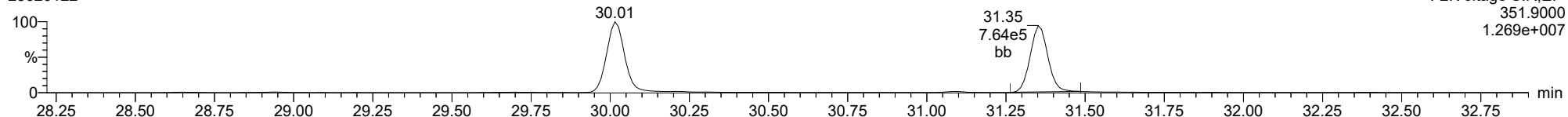
23020122



F2:Voltage SIR,EI+  
341.8567  
3.625e+006

**13C-23478-PeCDF**

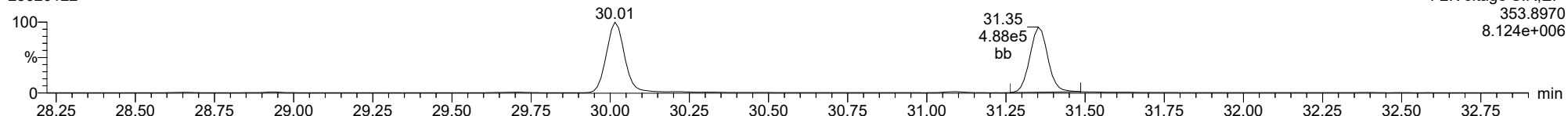
23020122



F2:Voltage SIR,EI+  
351.9000  
1.269e+007

**13C-23478-PeCDF**

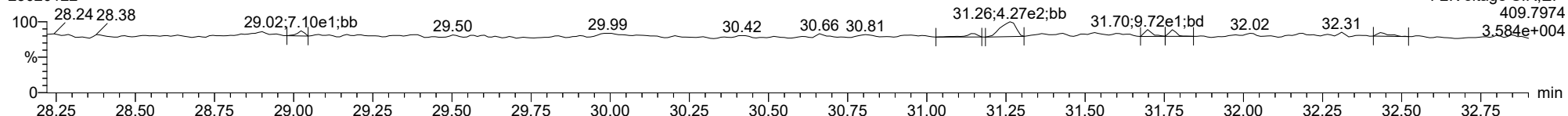
23020122



F2:Voltage SIR,EI+  
353.8970  
8.124e+006

**FUNCTION2 HPCDPE**

23020122

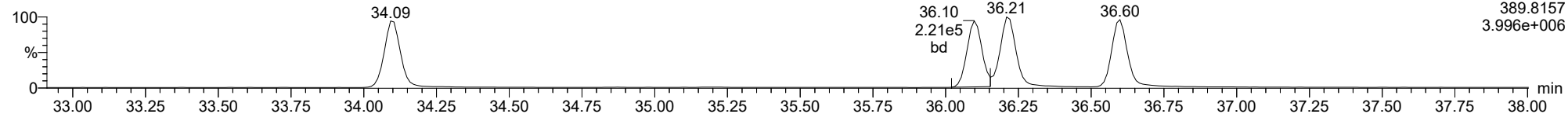


F2:Voltage SIR,EI+  
409.7974  
3.584e+004

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**123478-HxCDD**

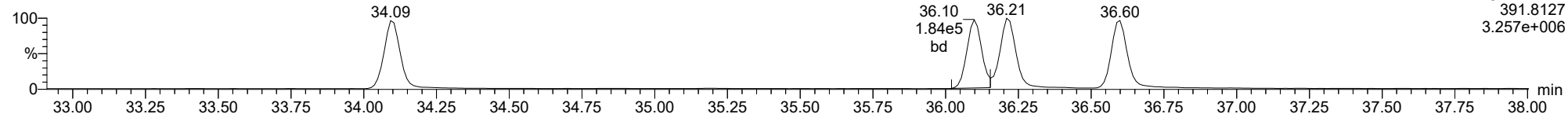
23020122



F3:Voltage SIR,EI+  
389.8157  
3.996e+006

**123478-HxCDD**

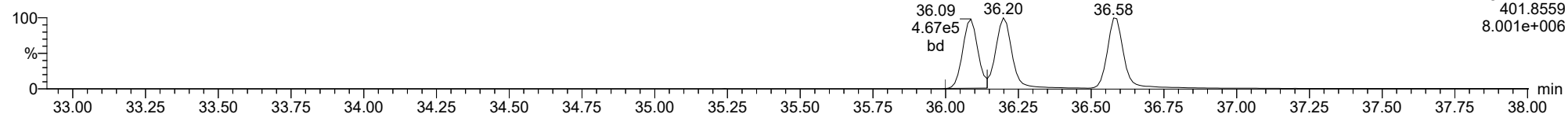
23020122



F3:Voltage SIR,EI+  
391.8127  
3.257e+006

**13C-123478-HxCDD**

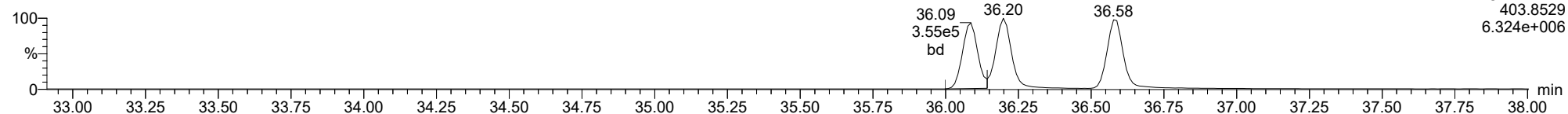
23020122



F3:Voltage SIR,EI+  
401.8559  
8.001e+006

**13C-123478-HxCDD**

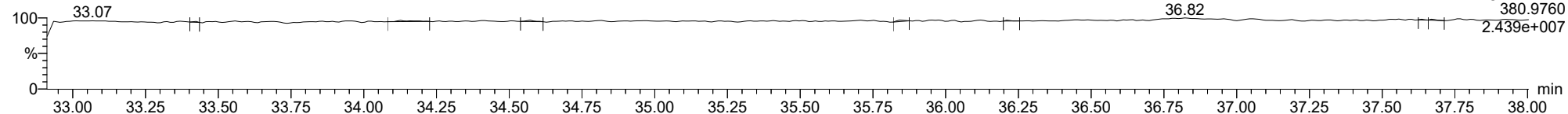
23020122



F3:Voltage SIR,EI+  
403.8529  
6.324e+006

**FUNCTION3 PFK**

23020122

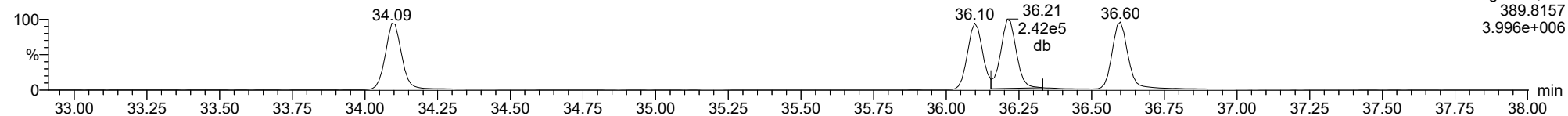


F3:Voltage SIR,EI+  
380.9760  
2.439e+007

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

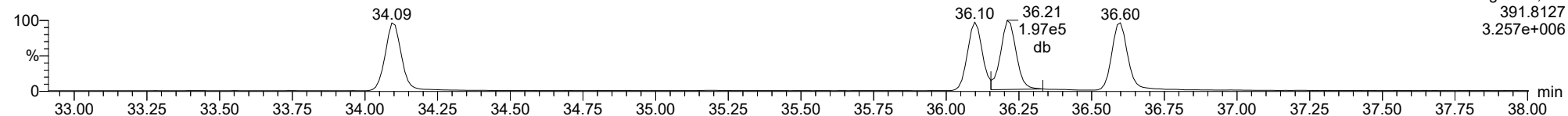
23020122



F3:Voltage SIR,EI+  
389.8157  
3.996e+006

**123678-HxCDD**

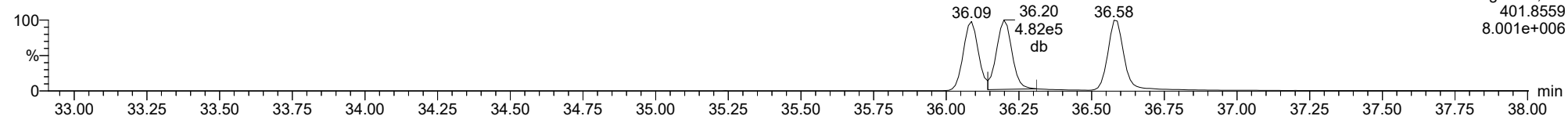
23020122



F3:Voltage SIR,EI+  
391.8127  
3.257e+006

**13C-123678-HxCDD**

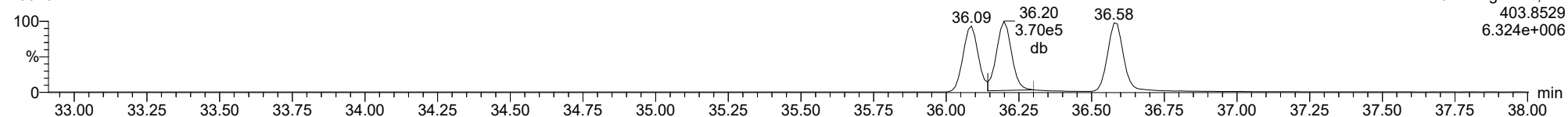
23020122



F3:Voltage SIR,EI+  
401.8559  
8.001e+006

**13C-123678-HxCDD**

23020122

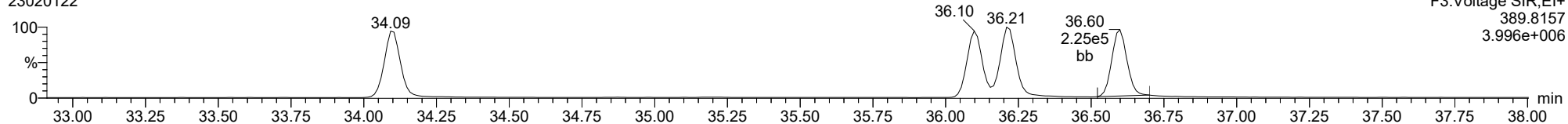


F3:Voltage SIR,EI+  
403.8529  
6.324e+006

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**123789-HxCDD**

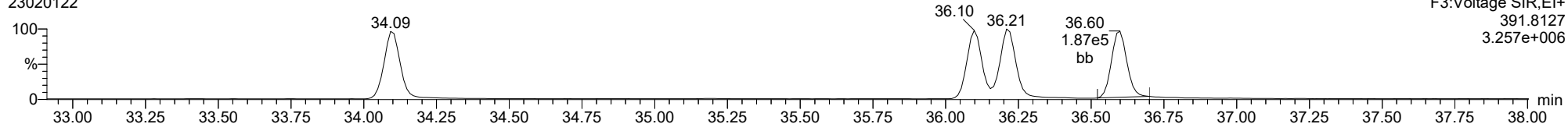
23020122



F3:Voltage SIR,EI+  
389.8157  
3.996e+006

**123789-HxCDD**

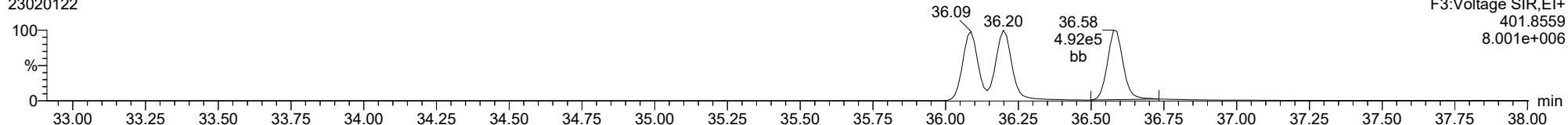
23020122



F3:Voltage SIR,EI+  
391.8127  
3.257e+006

**13C-123789-HxCDD**

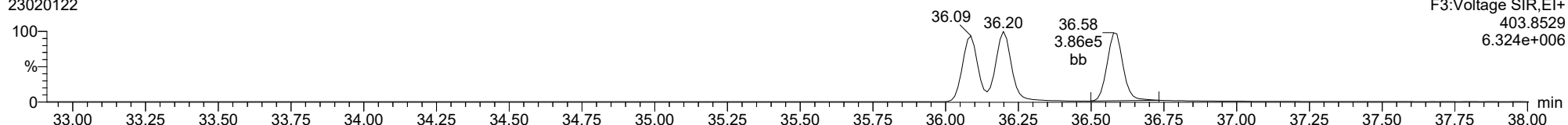
23020122



F3:Voltage SIR,EI+  
401.8559  
8.001e+006

**13C-123789-HxCDD**

23020122

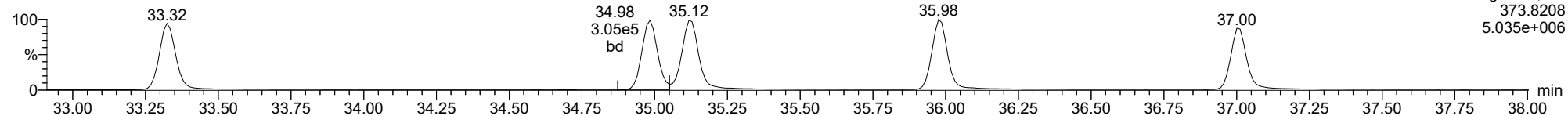


F3:Voltage SIR,EI+  
403.8529  
6.324e+006

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**123478-HxCDF**

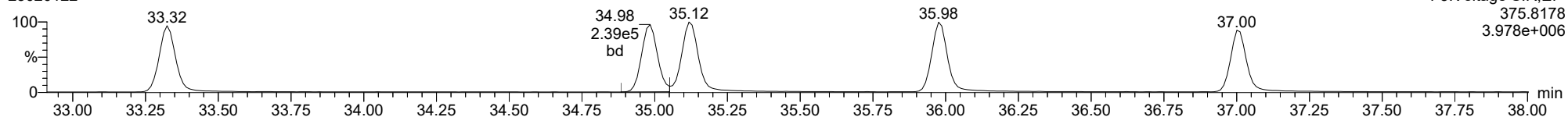
23020122



F3:Voltage SIR,EI+  
373.8208  
5.035e+006

**123478-HxCDF**

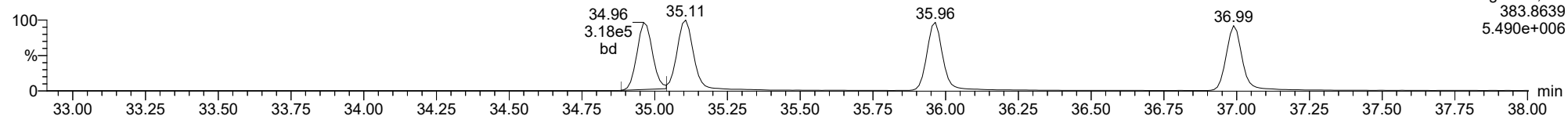
23020122



F3:Voltage SIR,EI+  
375.8178  
3.978e+006

**13C-123478-HxCDF**

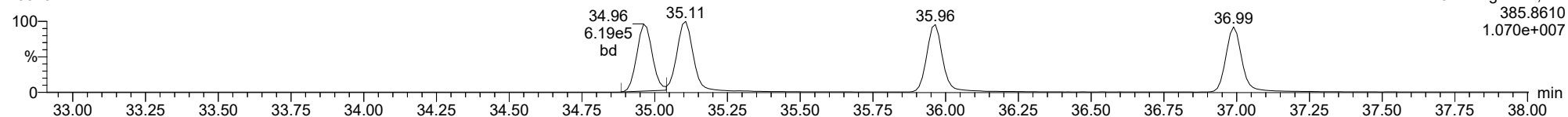
23020122



F3:Voltage SIR,EI+  
383.8639  
5.490e+006

**13C-123478-HxCDF**

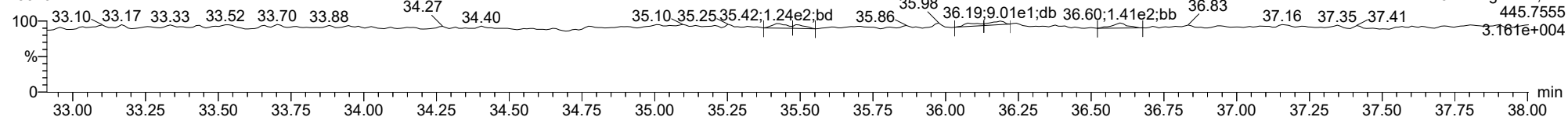
23020122



F3:Voltage SIR,EI+  
385.8610  
1.070e+007

**FUNCTION3 OCDPE**

23020122

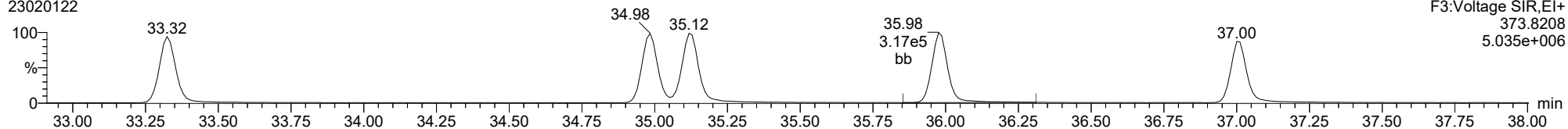


F3:Voltage SIR,EI+  
445.7555  
3.161e+004

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

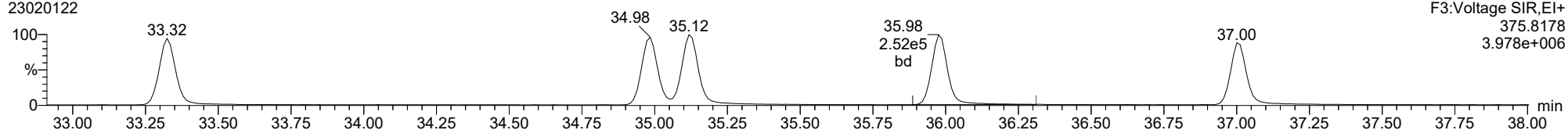
**234678-HxCDF**

23020122



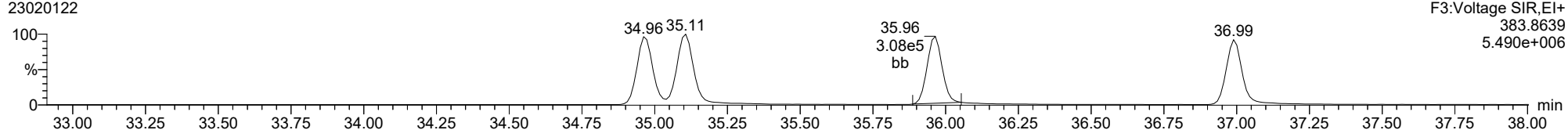
**234678-HxCDF**

23020122



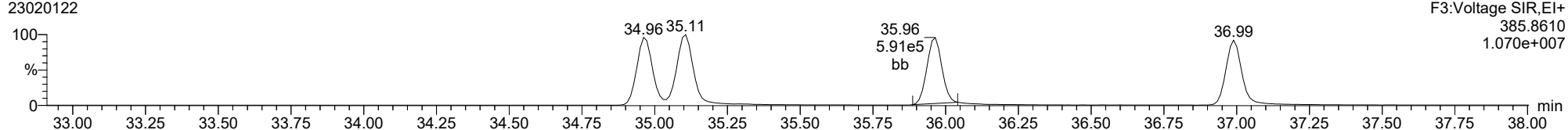
**13C-234678-HxCDF**

23020122



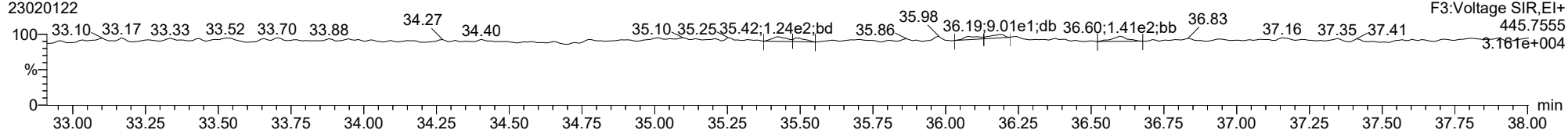
**13C-234678-HxCDF**

23020122



**FUNCTION3 OCDPE**

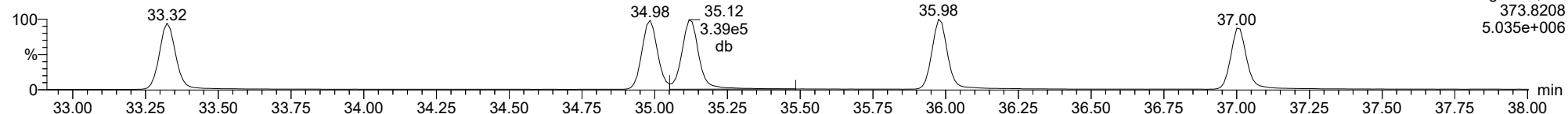
23020122



ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

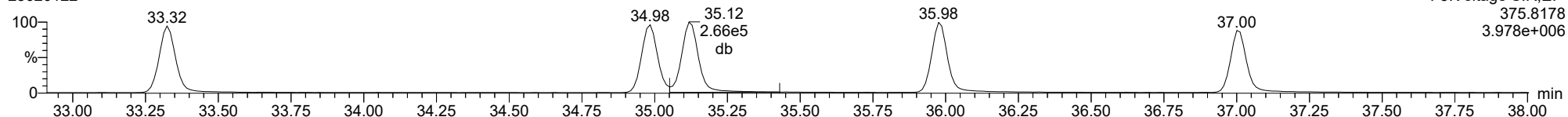
123678-HxCDF

23020122



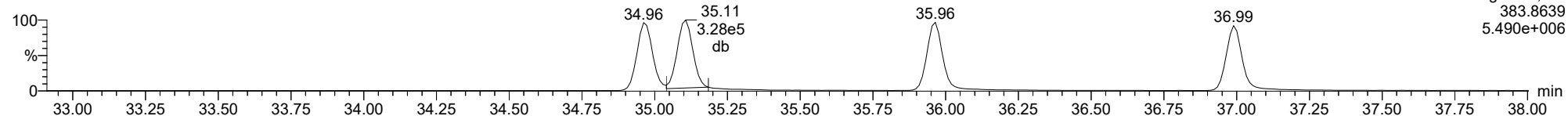
123678-HxCDF

23020122



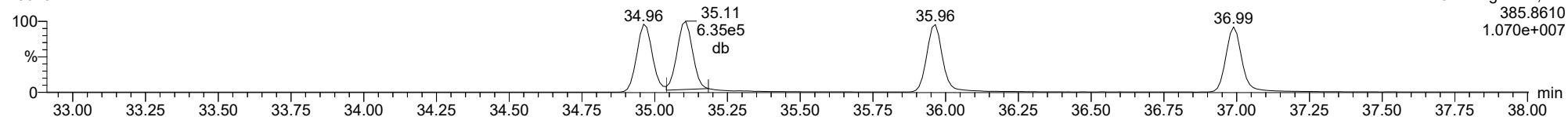
13C-123678-HxCDF

23020122



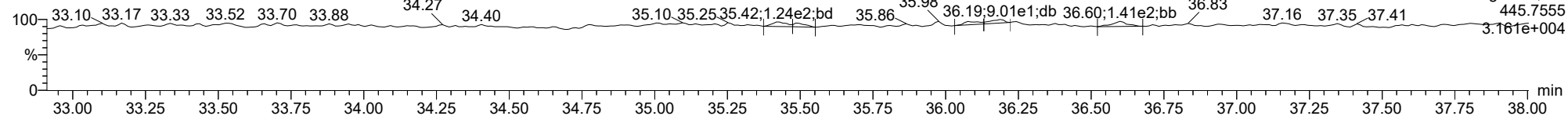
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FUNCTION3 OCDPE

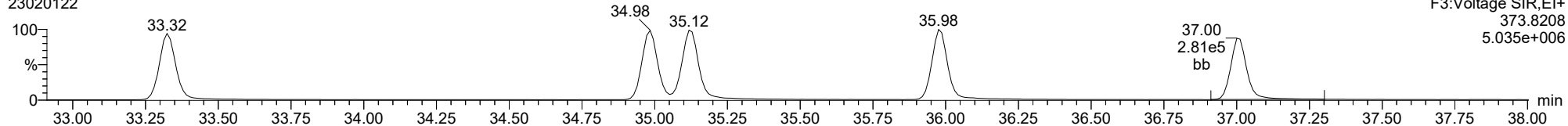
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ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

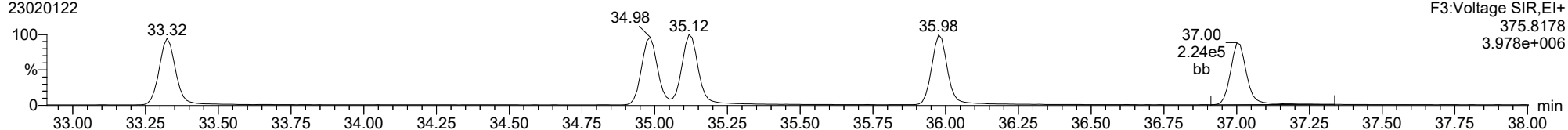
123789-HxCDF

23020122



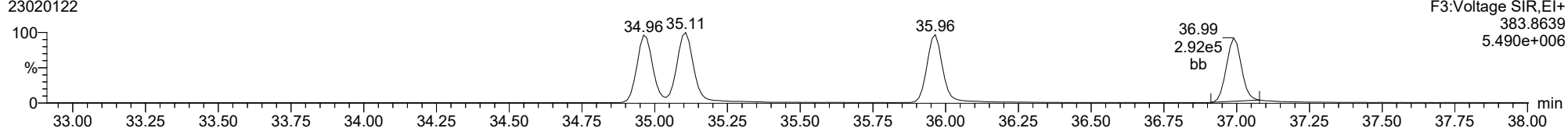
123789-HxCDF

23020122



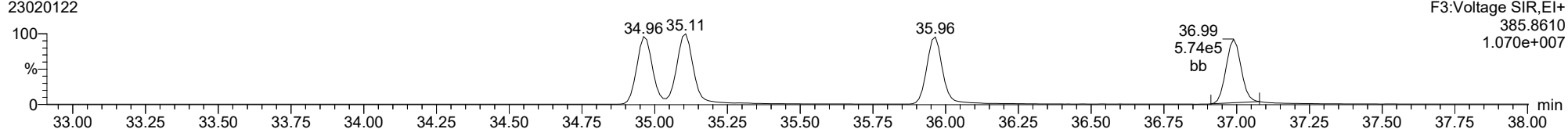
13C-123789-HxCDF

23020122



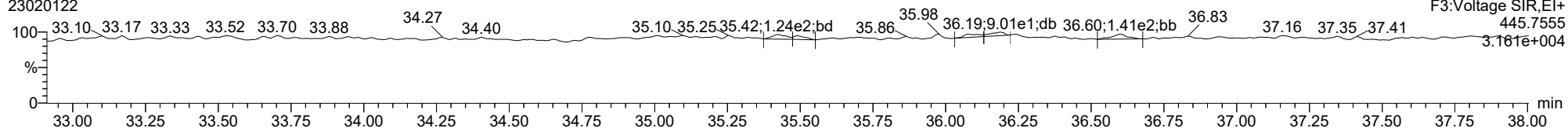
13C-123789-HxCDF

23020122



FUNCTION3 OCDPE

23020122

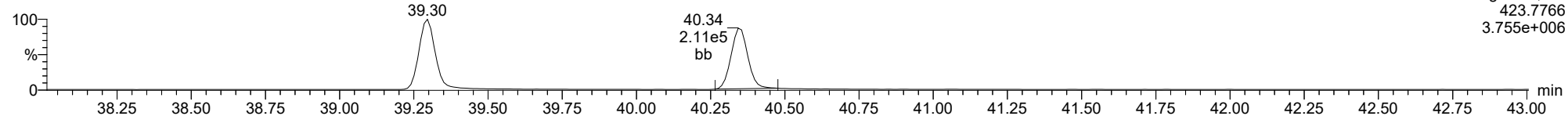




ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

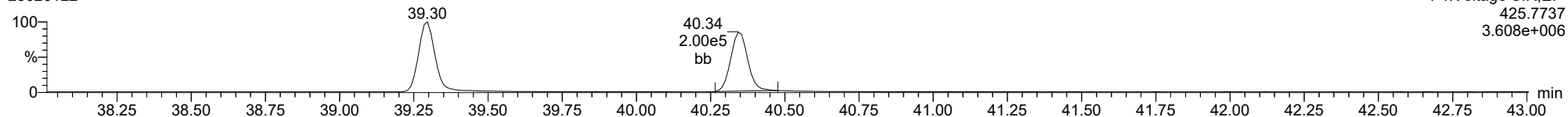
23020122



F4:Voltage SIR,EI+  
423.7766  
3.755e+006

1234678-HpCDD

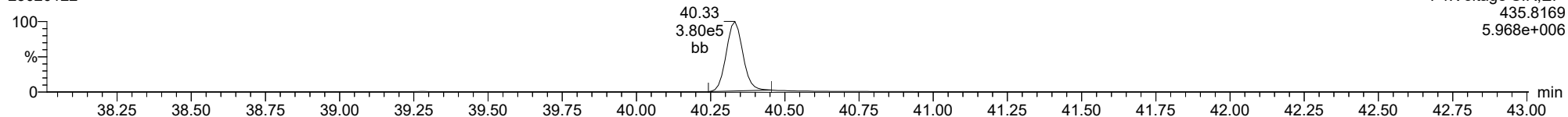
23020122



F4:Voltage SIR,EI+  
425.7737  
3.608e+006

13C-1234678-HpCDD

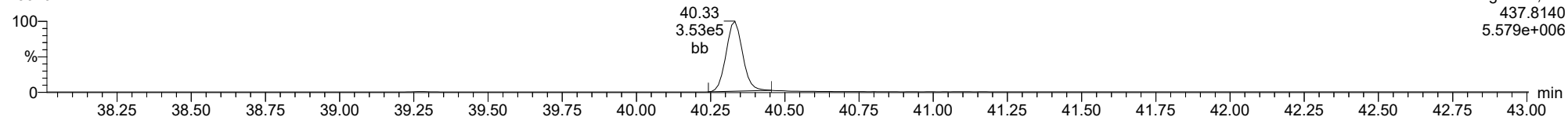
23020122



F4:Voltage SIR,EI+  
435.8169  
5.968e+006

13C-1234678-HpCDD

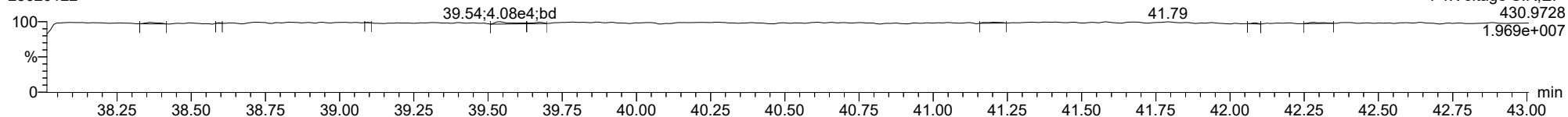
23020122



F4:Voltage SIR,EI+  
437.8140  
5.579e+006

FUNCTION4 PFK

23020122

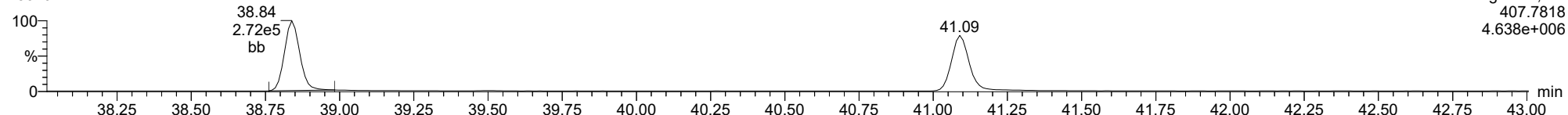


F4:Voltage SIR,EI+  
430.9728  
1.969e+007

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDF**

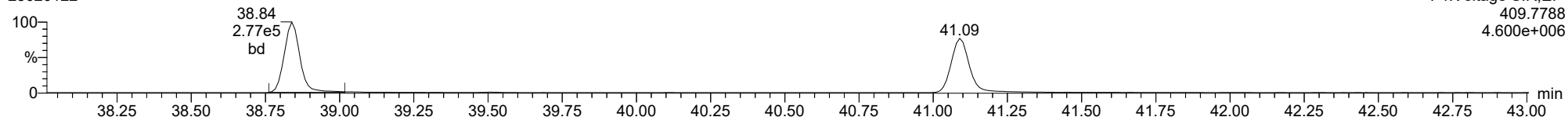
23020122



F4:Voltage SIR,EI+  
407.7818  
4.638e+006

**1234678-HpCDF**

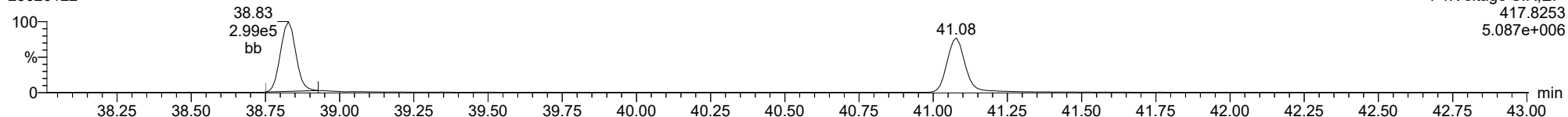
23020122



F4:Voltage SIR,EI+  
409.7788  
4.600e+006

**13C-1234678-HpCDF**

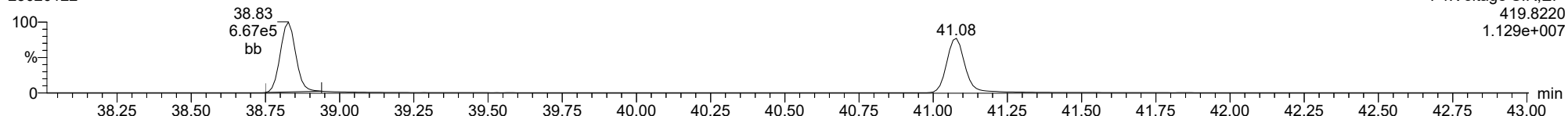
23020122



F4:Voltage SIR,EI+  
417.8253  
5.087e+006

**13C-1234678-HpCDF**

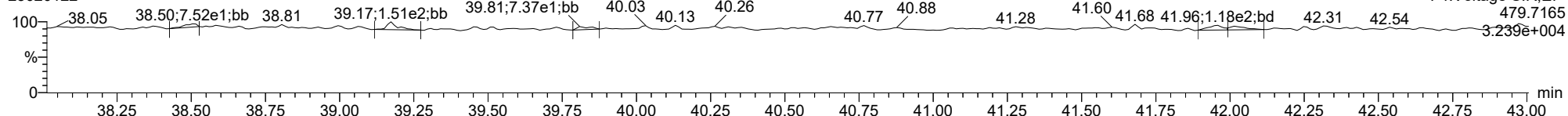
23020122



F4:Voltage SIR,EI+  
419.8220  
1.129e+007

**FUNCTION4 NCDPE**

23020122

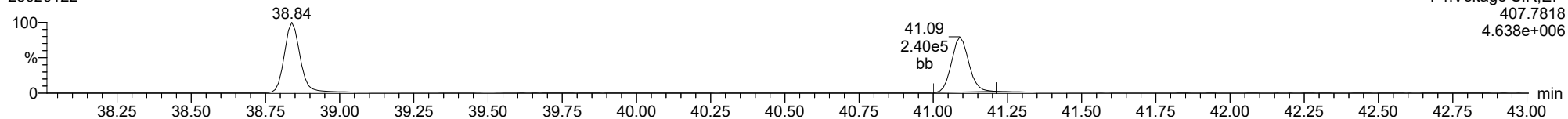


F4:Voltage SIR,EI+  
479.7165  
3.239e+004

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

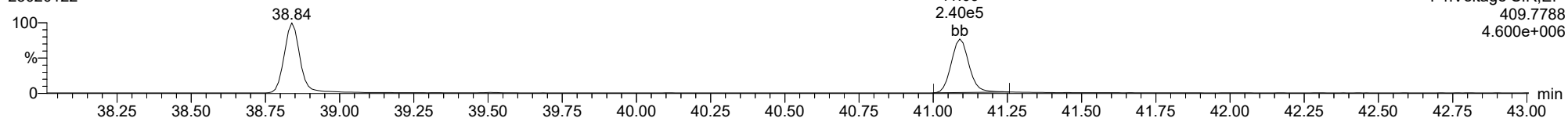
1234789-HpCDF

23020122



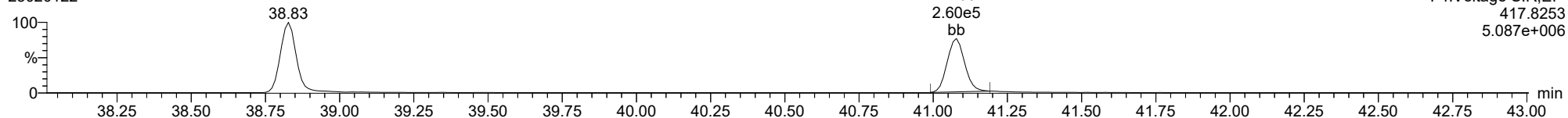
1234789-HpCDF

23020122



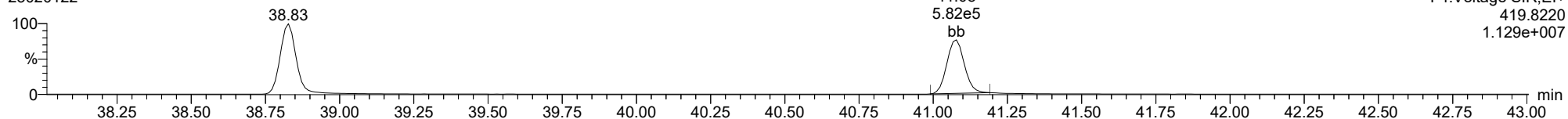
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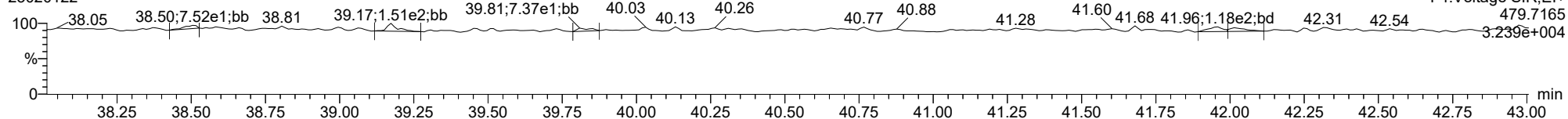
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23020122



FUNCTION4 NCDPE

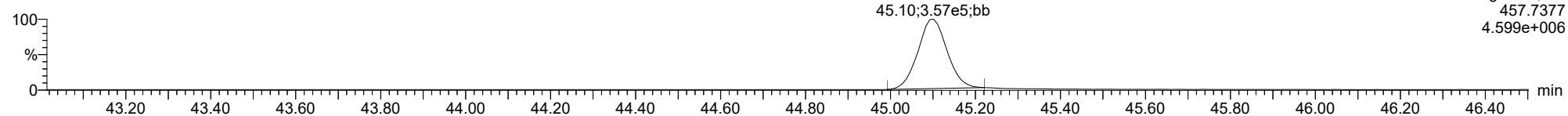
23020122



ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

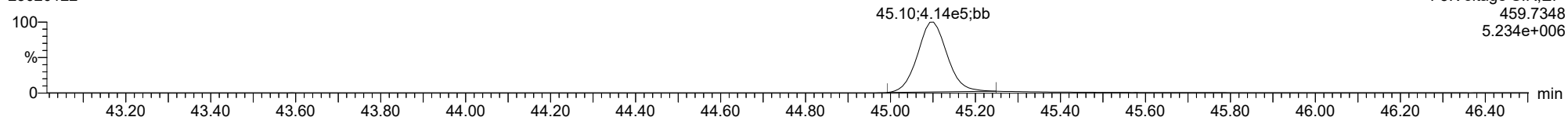
**OCDD**

23020122



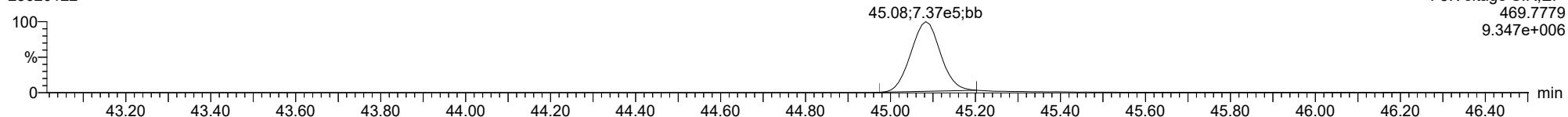
**OCDD**

23020122



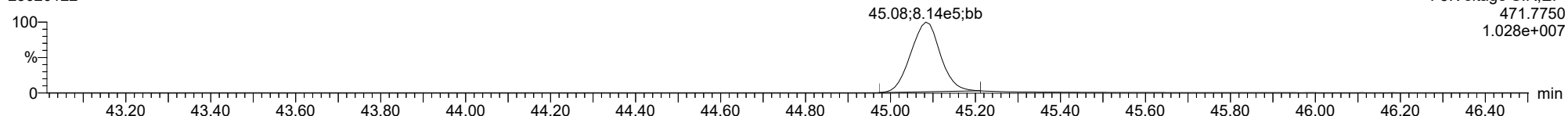
**13C-OCDD**

23020122



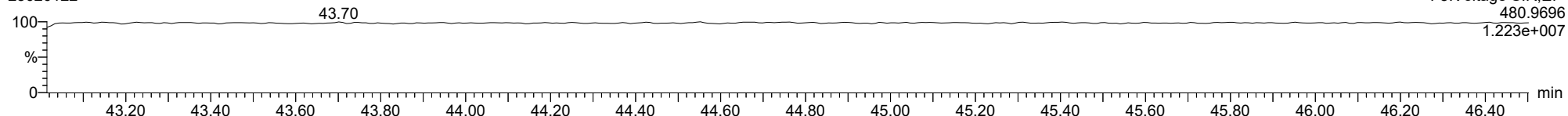
**13C-OCDD**

23020122



**FUNCTION5 PFK**

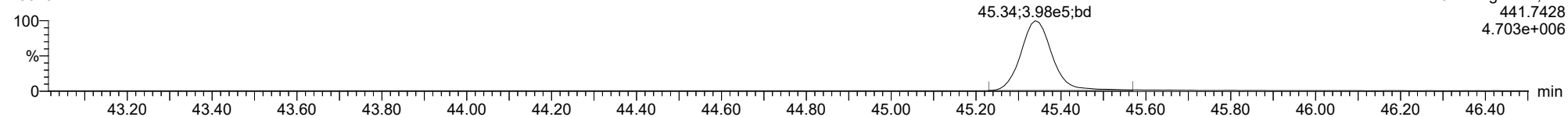
23020122



ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

**OCDF**

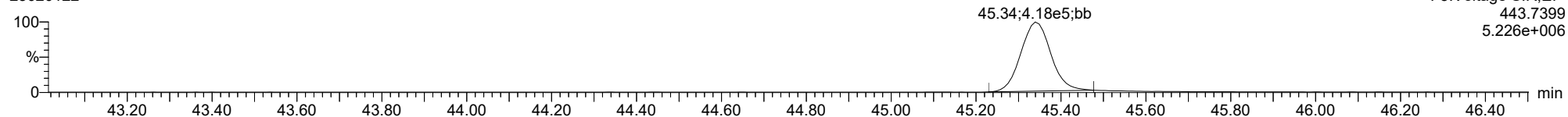
23020122



F5:Voltage SIR,EI+  
441.7428  
4.703e+006

**OCDF**

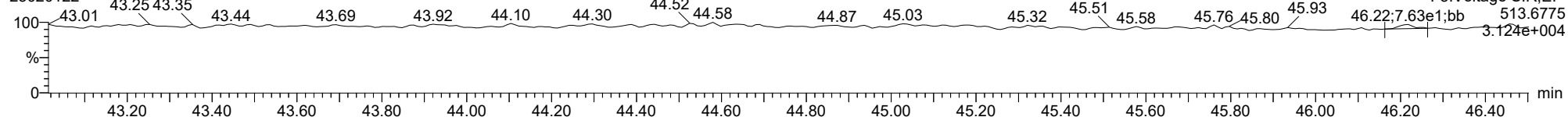
23020122



F5:Voltage SIR,EI+  
443.7399  
5.226e+006

**FUNCTION5 DCDPE**

23020122

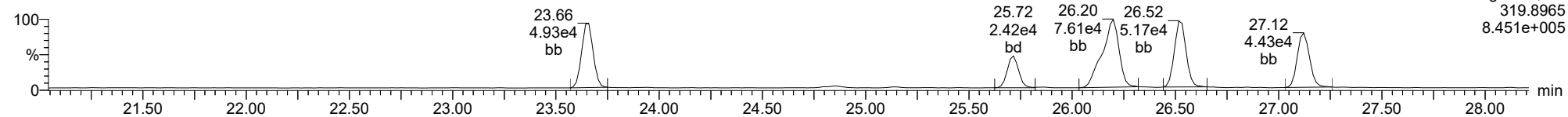


F5:Voltage SIR,EI+  
513.6775  
3.124e+004

ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

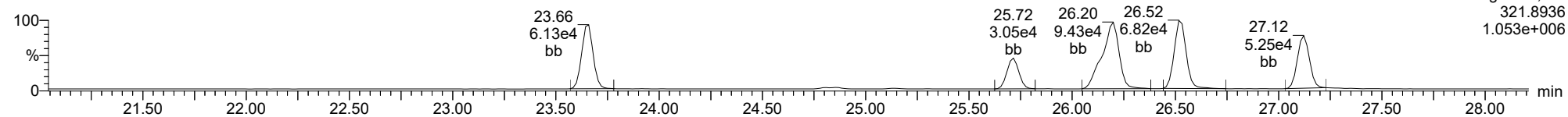
**Total-tetradoxins**

23020122



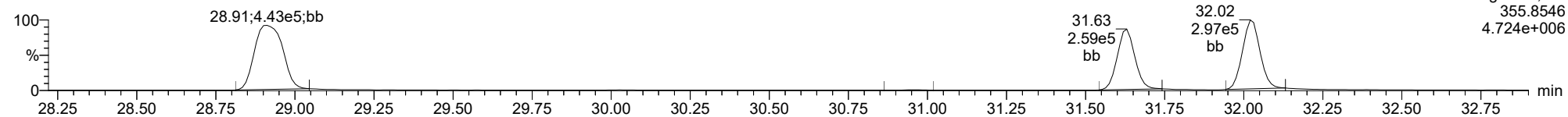
**Total-tetradoxins**

23020122



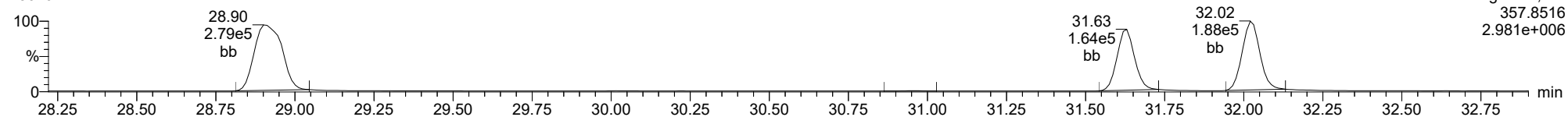
**Total-pentadoxins**

23020122



**Total-pentadoxins**

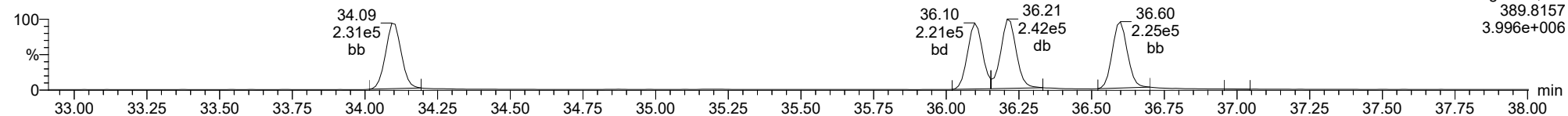
23020122



ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

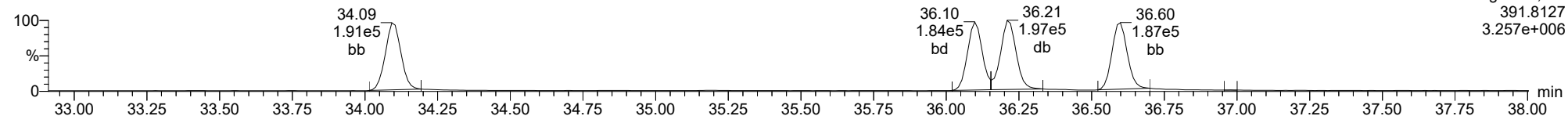
**Total-hexadioxins**

23020122



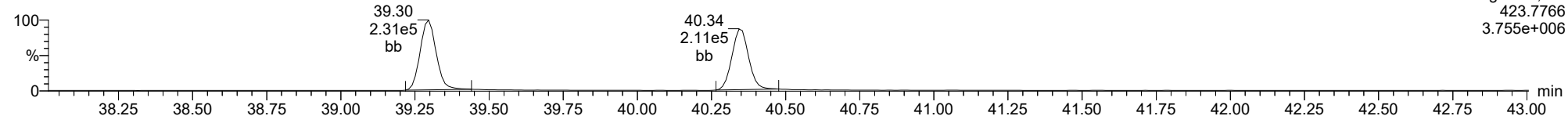
**Total-hexadioxins**

23020122



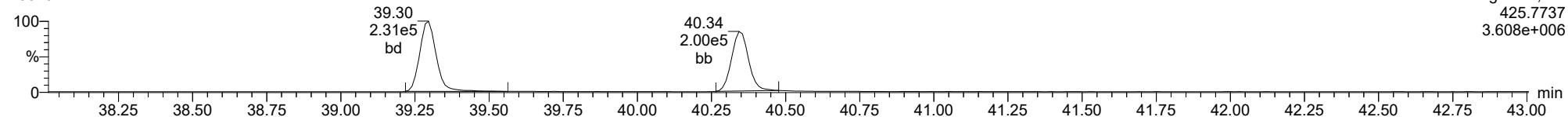
**Total-heptadioxins**

23020122



**Total-heptadioxins**

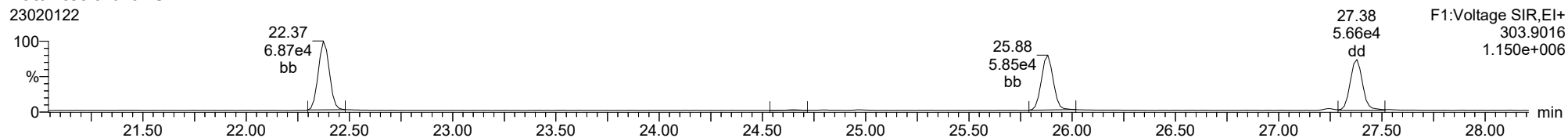
23020122



ID: CS3R3, Name: 23020122, Date: 02-Feb-2023, Time: 06:23:24, Conditions: AUTOSPEC01, User: pk

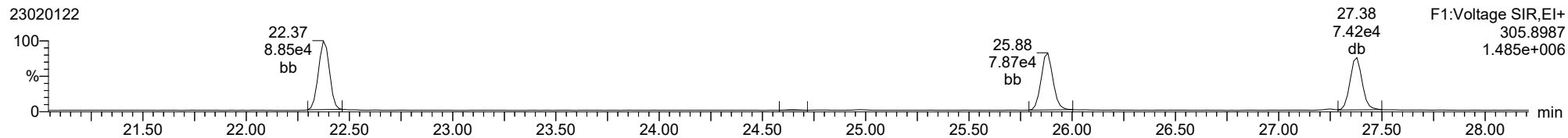
**Total-tetrafurans**

23020122



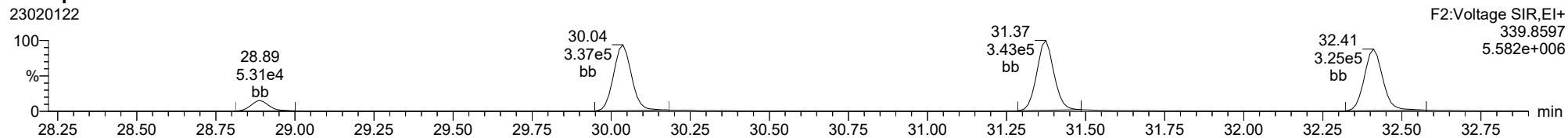
**Total-tetrafurans**

23020122



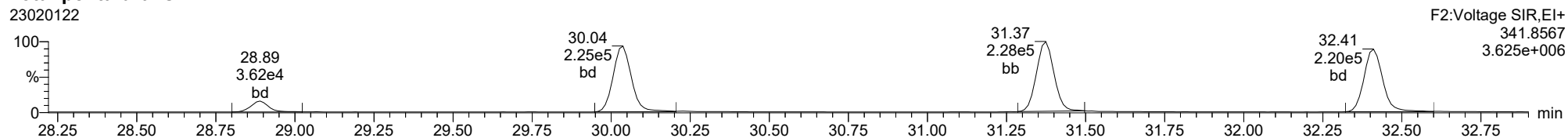
**Total-pentafurans**

23020122



**Total-pentafurans**

23020122

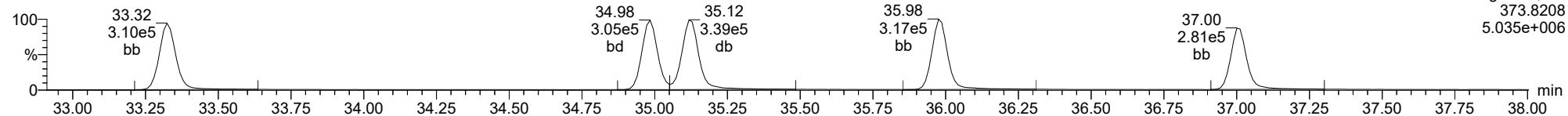




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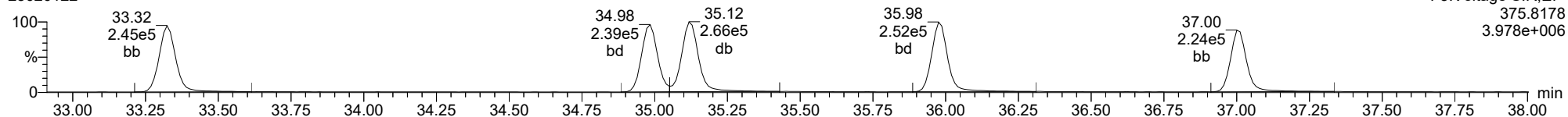
**Total-hexafurans**

23020122



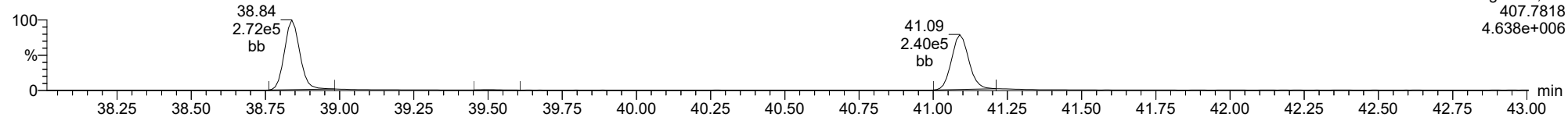
**Total-hexafurans**

23020122



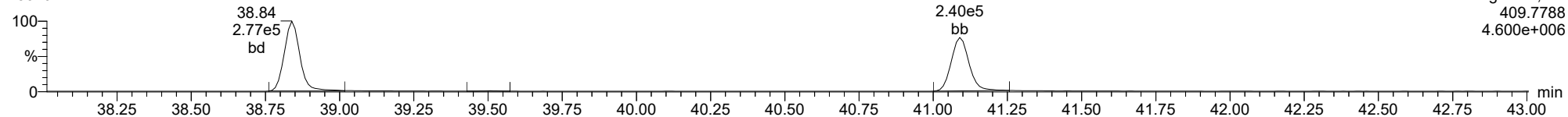
**Total-heptafurans**

23020122



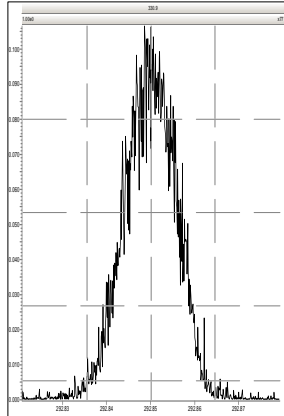
**Total-heptafurans**

23020122

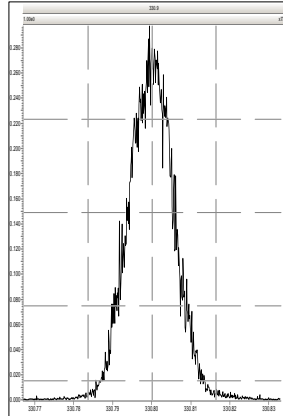


Printed: Thursday, February 02, 2023 07:17:16 Pacific Standard Time

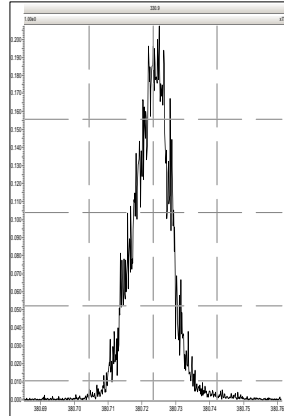
M 292.9824 R 11335



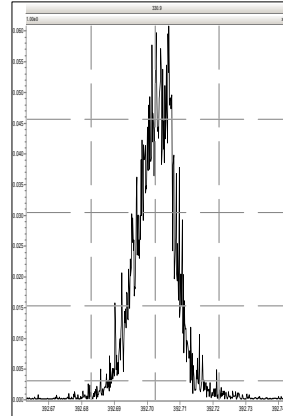
M 330.9792 R 12923



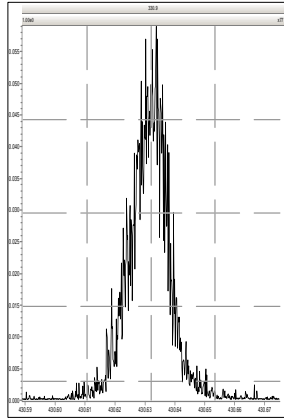
M 380.9760 R 15542



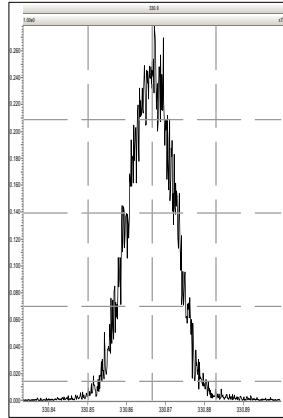
M 392.9760 R 16257



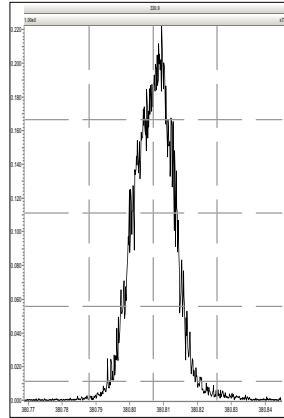
M 430.9728 R 14978



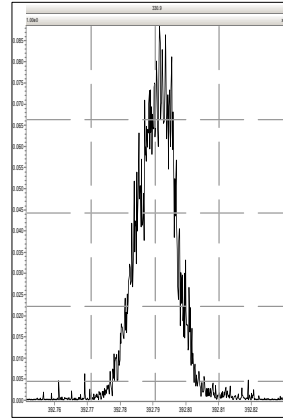
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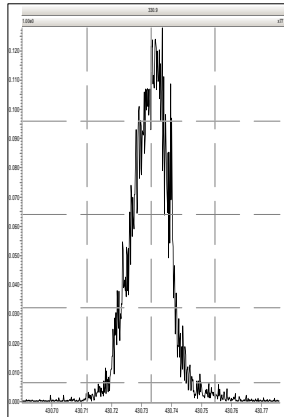
M 380.9760 R 14792



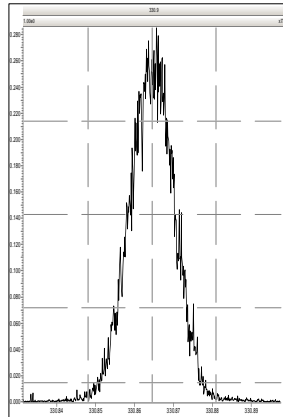
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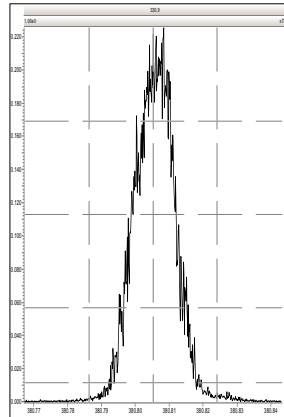
M 430.9728 R 16085



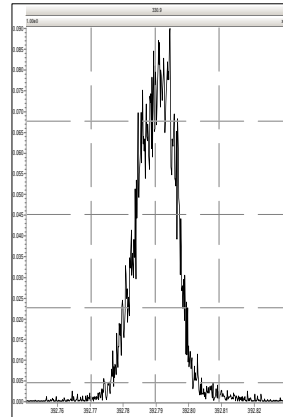
M 330.9792 R 12986



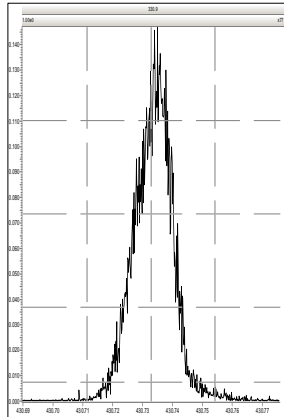
M 380.9760 R 14718



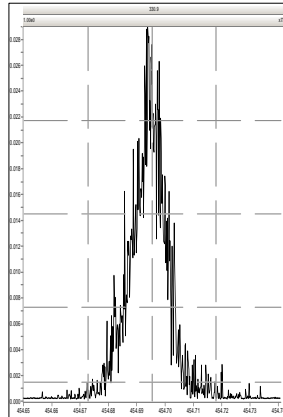
M 392.9760 R 15079



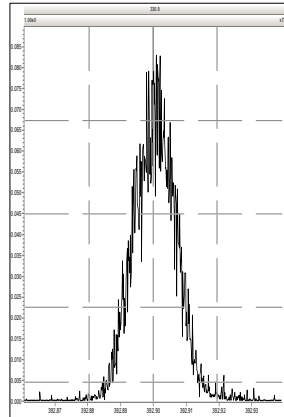
M 430.9728 R 16929



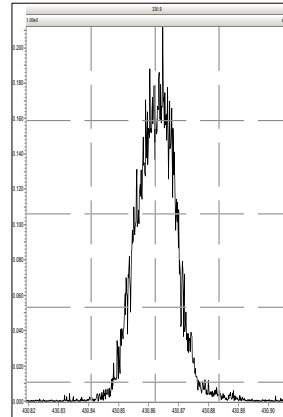
M 454.9728 R 17431



M 392.9760 R 14205

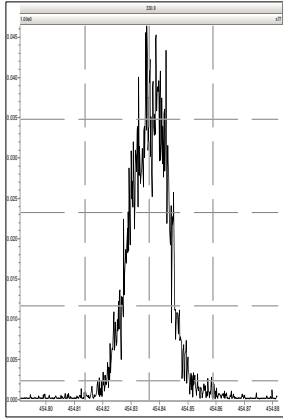


M 430.9728 R 15015

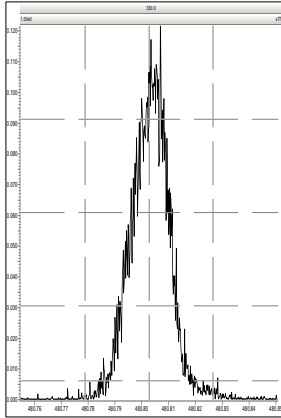


Printed: Thursday, February 02, 2023 07:17:16 Pacific Standard Time

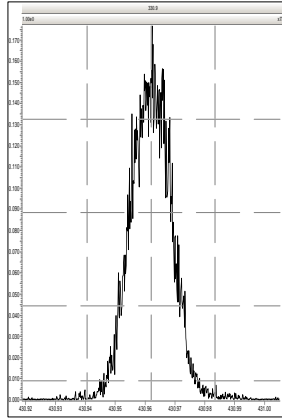
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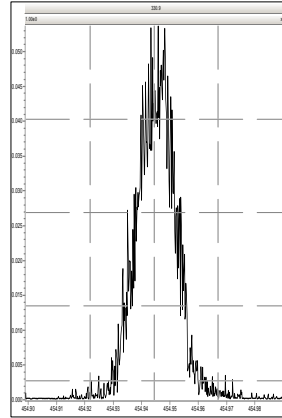
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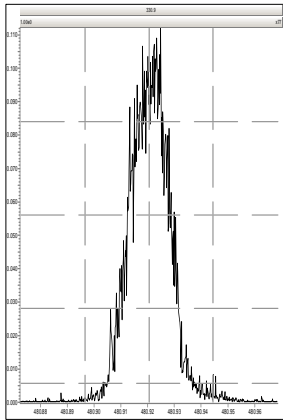
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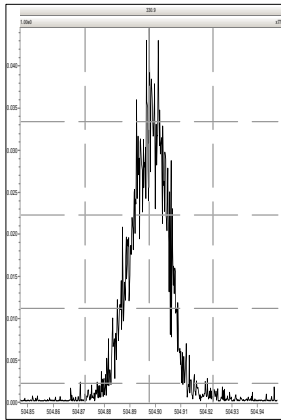
M 454.9728 R 15357



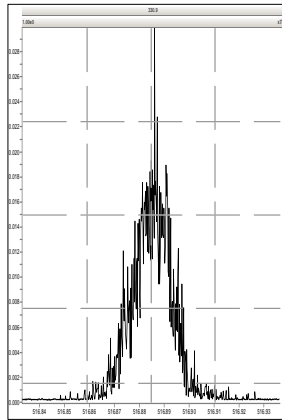
M 480.9696 R 14978



M 504.9696 R 17613



M 516.9697 R 16958

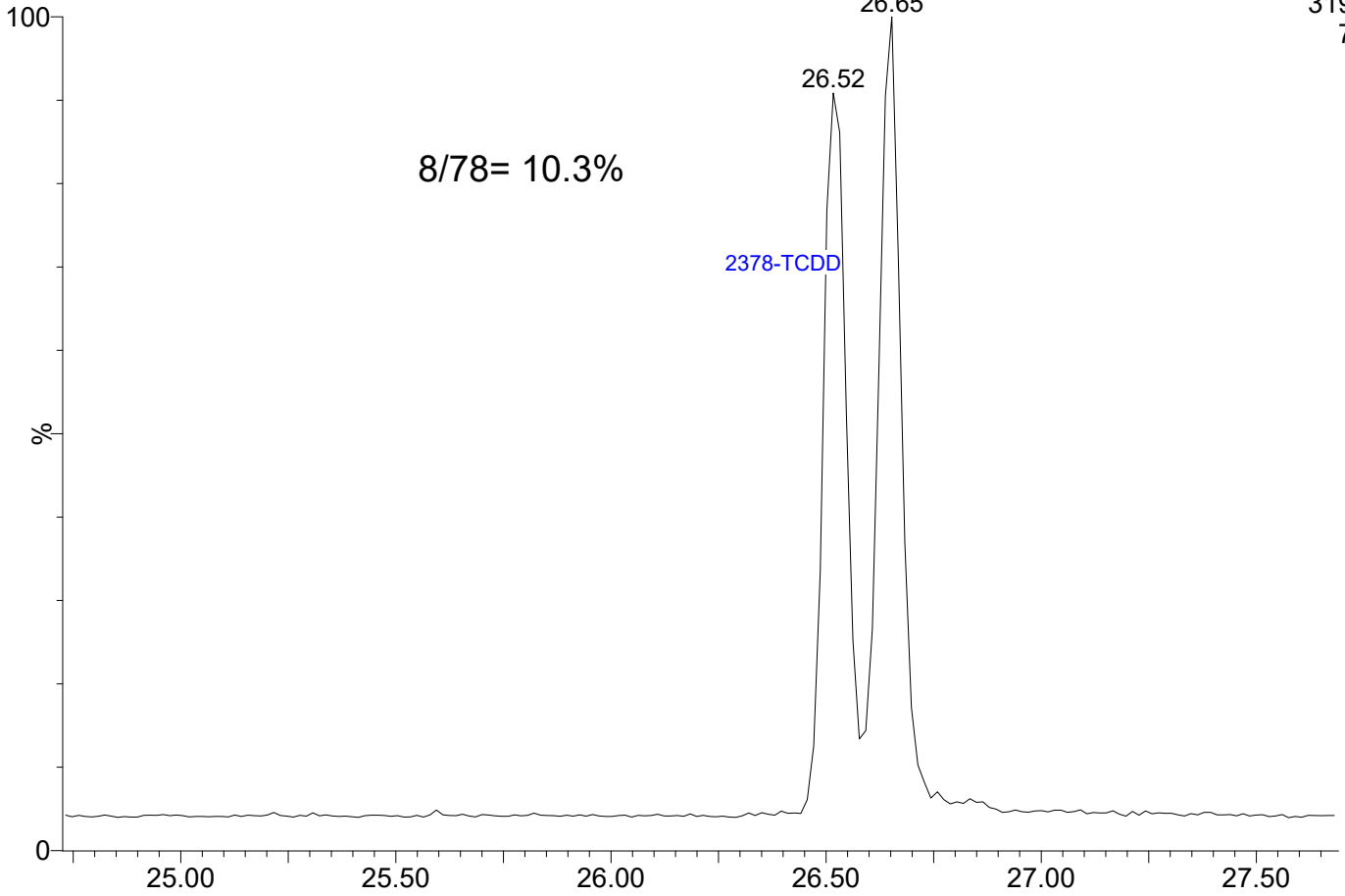


23020123

1: Voltage SIR 15 Channels EI+

319.8965

7.06e5

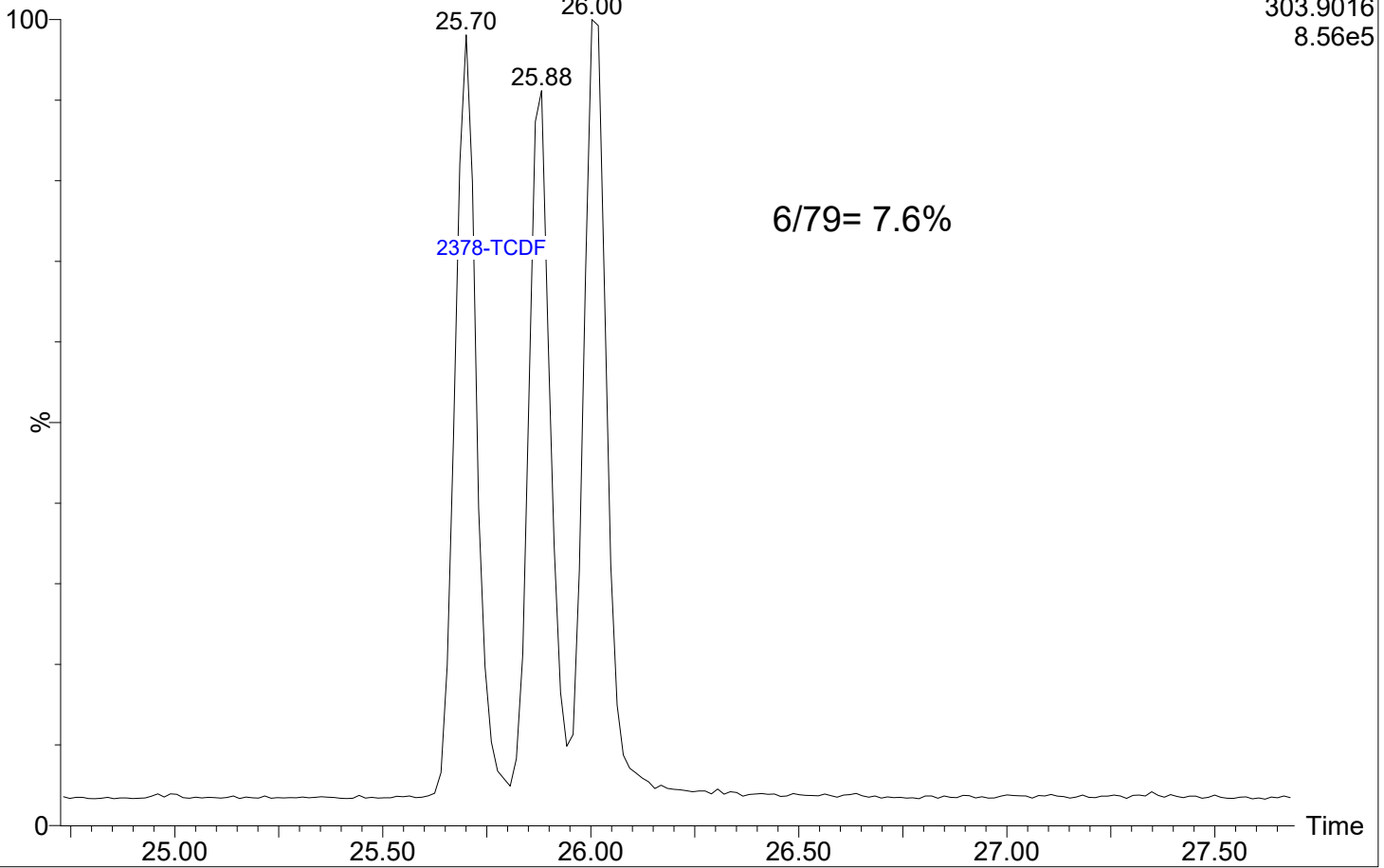


23020123

1: Voltage SIR 15 Channels EI+

303.9016

8.56e5





INITIAL CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020102

Calibration Date: 02/01/2023

Sequence: SLB0026

Injection Date: 02/01/23

Lab Sample ID: SLB0026-ICV1

Injection Time: 10:37

Sequence Name: CS3R1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.00	0.8760604	0.7881394		-10.0	+/-16
2,3,7,8-TCDD	A	10.000	8.00	1.2363600	0.9890074		-20.0	+/-22
1,2,3,7,8-PeCDF	A	50.000	45.5	0.8446540	0.7681961		-9.1	+/-18
2,3,4,7,8-PeCDF	A	50.000	46.0	0.9111780	0.8383961		-8.0	+/-18
1,2,3,7,8-PeCDD	A	50.000	49.7	1.0866850	1.0810230		-0.5	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	43.8	1.1816860	1.0352320		-12.4	+/-10 *
1,2,3,6,7,8-HxCDF	A	50.000	44.7	1.2480480	1.1146430		-10.7	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	45.6	1.2288500	1.1200940		-8.9	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	44.5	1.1865370	1.0560050		-11.0	+/-10 *
1,2,3,4,7,8-HxCDD	A	50.000	44.8	0.9869672	0.8835021		-10.5	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	43.8	1.0207220	0.8949701		-12.3	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	44.1	0.9854780	0.8698650		-11.7	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	45.1	1.2041190	1.0859080		-9.8	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.7	1.1653050	1.1124610		-4.5	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	44.2	1.2525690	1.1066520		-11.6	+/-14
OCDF	A	100.00	86.3	1.1862640	1.0243110		-13.7	+/-37
OCDD	A	100.00	90.9	1.1026670	1.0028370		-9.1	+/-21
13C12-2,3,7,8-TCDF	A	100.00	81.8	1.7680590	1.4469997		-18.2	+/-29
13C12-2,3,7,8-TCDD	A	100.00	103	1.1029470	1.1388769		3.3	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	97.0	1.5271250	1.4807739		-3.0	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	96.3	1.4662840	1.4126920		-3.7	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	97.3	0.9141518	0.8893426		-2.7	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	88.7	1.0536610	0.9345708		-11.3	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	89.6	1.0799530	0.9680754		-10.4	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	88.7	1.0143260	0.8993069		-11.3	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	87.8	0.9279333	0.8145455		-12.2	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	99.3	0.9329336	0.9264810		-0.7	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	102	0.9646272	0.9846310		2.1	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	80.6	1.0360890	0.8353360		-19.4	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	78.2	0.9049372	0.7072834		-21.8	+/-23

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>GB00010</u>
Lab File ID:	<u>23020102</u>	Calibration Date:	<u>02/01/2023</u>
Sequence:	<u>SLB0026</u>	Injection Date:	<u>02/01/23</u>
Lab Sample ID:	<u>SLB0026-ICV1</u>	Injection Time:	<u>10:37</u>
Sequence Name:	<u>CS3R1</u>		

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	84.9	0.7819773	0.6642647		-15.1	+/-28
13C12-OCDD	A	200.00	176	0.7882343	0.6917393		-12.2	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.58	1.2334500	1.0578858		-14.2	

\* Values outside of QC limits



INITIAL CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GC00015

Lab File ID: 23030302

Calibration Date: 03/03/2023

Sequence: SLC0045

Injection Date: 03/03/23

Lab Sample ID: SLC0045-ICV1

Injection Time: 09:51

Sequence Name: CS3W1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.55	0.7015272	0.6699659		-4.5	+/-16
2,3,7,8-TCDD	A	10.000	9.45	1.1486620	1.0855020		-5.5	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.6	0.6792300	0.6743560		-0.7	+/-18
2,3,4,7,8-PeCDF	A	50.000	47.5	0.7861704	0.7472986		-4.9	+/-18
1,2,3,7,8-PeCDD	A	50.000	49.7	1.0218450	1.0147700		-0.7	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.1	1.1660380	1.0988190		-5.8	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	49.6	1.0907410	1.0813380		-0.9	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	49.3	1.1396990	1.1246750		-1.3	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.0	1.1370930	1.0679460		-6.1	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.1	0.9955689	0.9966266		0.1	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	49.6	1.0009380	0.9938861		-0.7	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	54.2	0.9071139	0.9838286		8.5	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.5	1.0029930	0.9526502		-5.0	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	50.2	0.9531152	0.9573187		0.4	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.6	1.0390130	0.9895371		-4.8	+/-14
OCDF	A	100.00	88.6	0.7778078	0.6890651		-11.4	+/-37
OCDD	A	100.00	98.4	0.9199537	0.9055309		-1.6	+/-21
13C12-2,3,7,8-TCDF	A	100.00	94.0	1.6201960	1.5232274		-6.0	+/-29
13C12-2,3,7,8-TCDD	A	100.00	102	1.1524090	1.1727116		1.8	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	92.2	1.2404520	1.1438587		-7.8	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	87.6	1.1177860	0.9791895		-12.4	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	84.3	0.8288129	0.6985475		-15.7	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	84.0	1.1683050	0.9815313		-16.0	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	74.6	1.3864660	1.0348865		-25.4	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	88.7	1.1292560	1.0010969		-11.3	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	99.9	0.9317541	0.9305560		-0.1	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	93.5	0.9950393	0.9299453		-6.5	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	86.9	1.1566890	1.0052205		-13.1	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	95.3	0.8952017	0.8530837		-4.7	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	98.7	0.7697516	0.7594900		-1.3	+/-23

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>GC00015</u>
Lab File ID:	<u>23030302</u>	Calibration Date:	<u>03/03/2023</u>
Sequence:	<u>SLC0045</u>	Injection Date:	<u>03/03/23</u>
Lab Sample ID:	<u>SLC0045-ICV1</u>	Injection Time:	<u>09:51</u>
Sequence Name:	<u>CS3W1</u>		

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	105	0.8401226	0.8828452		5.1	+/-28
13C12-OCDD	A	200.00	214	0.7674714	0.8220320		7.1	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.05	1.2878040	1.1649542		-9.5	

\* Values outside of QC limits





INITIAL CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GC00015

Lab File ID: 23030802

Calibration Date: 03/03/2023

Sequence: SLC0101

Injection Date: 03/08/23

Lab Sample ID: SLC0101-ICV1

Injection Time: 10:35

Sequence Name: CS3Y1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	10.3	0.7015272	0.7258142		3.5	+/-16
2,3,7,8-TCDD	A	10.000	9.74	1.1486620	1.1190010		-2.6	+/-22
1,2,3,7,8-PeCDF	A	50.000	52.4	0.6792300	0.7122581		4.9	+/-18
2,3,4,7,8-PeCDF	A	50.000	50.5	0.7861704	0.7939976		1.0	+/-18
1,2,3,7,8-PeCDD	A	50.000	52.6	1.0218450	1.0739970		5.1	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	50.2	1.1660380	1.1718410		0.5	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	54.0	1.0907410	1.1772060		7.9	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	54.0	1.1396990	1.2309070		8.0	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	49.7	1.1370930	1.1299720		-0.6	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	54.1	0.9955689	1.0763390		8.1	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	54.6	1.0009380	1.0935400		9.3	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	59.3	0.9071139	1.0754970		18.6	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	48.5	1.0029930	0.9735427		-2.9	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.9	0.9531152	0.9884118		3.7	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	50.3	1.0390130	1.0456180		0.6	+/-14
OCDF	A	100.00	95.5	0.7778078	0.7431673		-4.5	+/-37
OCDD	A	100.00	101	0.9199537	0.9287803		1.0	+/-21
13C12-2,3,7,8-TCDF	A	100.00	103	1.6201960	1.6624420		2.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	100	1.1524090	1.1571279		0.4	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	107	1.2404520	1.3240365		6.7	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	112	1.1177860	1.2465786		11.5	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	104	0.8288129	0.8641937		4.3	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	101	1.1683050	1.1815984		1.1	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	94.4	1.3864660	1.3089717		-5.6	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	100	1.1292560	1.1337360		0.4	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	111	0.9317541	1.0297495		10.5	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	93.8	0.9950393	0.9334185		-6.2	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	91.5	1.1566890	1.0583794		-8.5	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	124	0.8952017	1.1059054		23.5	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	102	0.7697516	0.7855730		2.1	+/-23

\* Values outside of QC limits



**INITIAL CALIBRATION CHECK**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>GC00015</u>
Lab File ID:	<u>23030802</u>	Calibration Date:	<u>03/03/2023</u>
Sequence:	<u>SLC0101</u>	Injection Date:	<u>03/08/23</u>
Lab Sample ID:	<u>SLC0101-ICV1</u>	Injection Time:	<u>10:35</u>
Sequence Name:	<u>CS3Y1</u>		

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	98.8	0.8401226	0.8299396		-1.2	+/-28
13C12-OCDD	A	200.00	216	0.7674714	0.8269882		7.8	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.96	1.2878040	1.1535670		-10.4	

\* Values outside of QC limits

**Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32**  
**Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27**

**ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.001	5.083e4	7.120e4	0.702	0.714	0.770	1353	1558	7.71e5	1.06e6	569.6	682.8	NO	bb	bb	10.346
12378-PeCDF	29.945	1.001	2.876e5	1.893e5	0.679	1.519	1.550	1851	2183	4.22e6	2.81e6	2279.8	1288.9	NO	bb	bb	52.431
23478-PeCDF	31.281	1.001	3.027e5	1.978e5	0.786	1.531	1.550	1851	2183	4.56e6	2.99e6	2462.9	1367.7	NO	bb	bb	50.498
123478-HxCDF	34.903	1.001	3.310e5	2.591e5	1.166	1.278	1.240	2496	2309	5.22e6	4.08e6	2091.3	1767.9	NO	bd	bd	50.249
234678-HxCDF	35.905	1.001	3.224e5	2.724e5	1.140	1.184	1.240	2496	2309	5.02e6	4.02e6	2011.5	1742.4	NO	bb	bb	54.001
123678-HxCDF	35.036	1.000	3.802e5	2.764e5	1.091	1.375	1.240	2496	2309	5.38e6	4.14e6	2153.8	1794.2	NO	dd	db	53.964
123789-HxCDF	36.930	1.000	2.804e5	2.154e5	1.137	1.302	1.240	2496	2309	4.33e6	3.39e6	1736.6	1467.7	NO	bb	bb	49.687
1234678-HpCDF	38.780	1.001	2.320e5	2.268e5	1.003	1.023	1.050	1765	1455	3.68e6	3.61e6	2082.5	2480.9	NO	bb	bb	48.532
1234789-HpCDF	41.008	1.000	1.644e5	1.665e5	0.953	0.988	1.050	1765	1455	2.30e6	2.36e6	1305.3	1621.6	NO	bb	bb	51.852
OCDF	45.246	1.005	2.317e5	2.921e5	0.778	0.793	0.890	1566	932	2.73e6	3.19e6	1743.8	3422.0	NO	bb	bd	95.546
2378-TCDD	26.424	1.001	5.747e4	7.347e4	1.149	0.782	0.770	1392	1419	8.72e5	1.11e6	626.6	785.9	NO	bb	bb	9.742
12378-PeCDD	31.527	1.000	2.835e5	1.858e5	1.022	1.526	1.550	2125	2258	4.38e6	2.83e6	2061.0	1254.4	NO	bb	bb	52.552
123478-HxCDD	36.017	1.000	2.392e5	1.889e5	0.996	1.266	1.240	1630	1951	3.96e6	3.13e6	2428.3	1602.0	NO	bd	bd	54.056
123678-HxCDD	36.128	1.000	2.783e5	2.149e5	1.001	1.295	1.240	1630	1951	3.99e6	3.24e6	2445.2	1659.0	NO	db	db	54.626
123789-HxCDD	36.518	1.011	2.570e5	1.994e5	0.907	1.289	1.240	1630	1951	3.90e6	3.14e6	2394.4	1611.6	NO	bd	bb	59.281
1234678-HpCDD	40.272	1.000	1.888e5	1.810e5	1.039	1.043	1.050	2384	1785	2.83e6	2.69e6	1188.7	1509.1	NO	bb	bb	50.318
OCDD	45.008	1.000	3.066e5	3.480e5	0.920	0.881	0.890	1208	2440	3.59e6	4.12e6	2969.4	1686.4	NO	bb	bb	100.959
13C-2378-TCDF	25.760	1.007	7.289e5	9.523e5	1.620	0.765	0.770	2981	1951	1.09e7	1.43e7	3655.2	7325.4	NO	bb	bb	102.607
13C-12378-PeCDF	29.922	1.169	7.952e5	5.438e5	1.240	1.462	1.550	2583	3209	1.19e7	7.92e6	4618.4	2468.1	NO	bb	bd	106.738
13C-23478-PeCDF	31.259	1.222	7.630e5	4.976e5	1.118	1.533	1.550	2583	3209	1.16e7	7.52e6	4485.8	2343.9	NO	bb	bb	111.522
13C-123478-HxCDF	34.880	0.955	3.454e5	6.616e5	1.168	0.522	0.510	2082	2489	5.33e6	1.02e7	2559.0	4117.7	NO	bd	bd	101.138
13C-123678-HxCDF	35.025	0.959	4.011e5	7.146e5	1.386	0.561	0.510	2082	2489	5.68e6	1.07e7	2726.0	4285.6	NO	db	db	94.411
13C-234678-HxCDF	35.883	0.983	3.324e5	6.339e5	1.129	0.524	0.510	2082	2489	5.02e6	9.56e6	2409.7	3839.0	NO	bb	bb	100.397
13C-123789-HxCDF	36.919	1.011	3.012e5	5.765e5	0.932	0.522	0.510	2082	2489	4.59e6	8.79e6	2204.0	3529.7	NO	bb	bb	110.517
13C-1234678-HpCDF	38.757	1.062	2.831e5	6.594e5	0.895	0.429	0.440	1906	3929	4.48e6	1.05e7	2348.2	2663.9	NO	bb	bb	123.537
13C-1234789-HpCDF	40.997	1.123	2.073e5	4.623e5	0.770	0.448	0.440	1906	3929	2.85e6	6.54e6	1496.6	1663.6	NO	bb	bb	102.055
13C-1234-TCDD	25.591	0.000	4.549e5	5.564e5	1.000	0.818	0.770	2005	1525	6.97e6	8.49e6	3476.0	5567.3	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	5.231e5	6.471e5	1.152	0.808	0.770	2005	1525	7.81e6	9.71e6	3896.0	6369.1	NO	bb	bb	100.409
13C-12378-PeCDD	31.515	1.232	5.482e5	3.257e5	0.829	1.683	1.550	1386	919	8.22e6	5.01e6	5928.4	5454.1	NO	bb	bb	104.269
13C-123478-HxCDD	36.006	0.986	4.521e5	3.434e5	0.995	1.316	1.240	2647	3157	7.37e6	5.58e6	2783.5	1767.8	NO	bd	bd	93.807
13C-123678-HxCDD	36.117	0.989	5.129e5	3.892e5	1.157	1.318	1.240	2647	3157	7.81e6	5.95e6	2951.7	1883.1	NO	db	db	91.501
13C-1234678-HpCDD	40.261	1.103	3.780e5	3.294e5	0.840	1.148	1.050	1903	1825	5.27e6	4.70e6	2768.3	2575.7	NO	bd	bb	98.788
13C-OCDD	44.999	1.233	6.385e5	7.712e5	0.767	0.828	0.890	1582	1838	7.27e6	8.26e6	4593.8	4492.8	NO	bb	bd	215.510
13C-123789-HxCDD	36.507	0.000	4.844e5	3.679e5	1.000	1.316	1.240	2647	3157	7.54e6	5.77e6	2849.2	1826.1	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	1.167e5		1.288			1468		1.73e6		1179.3			bb		8.958

ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.271	0.865	7.159e4	9.994e4	0.802	0.716	0.770	1353	1558	1.18e6	1.60e6	868.4	1028.8	NO	bb	bb	12.729
1289-TCDF	27.271	1.059	4.831e4	6.748e4	0.678	0.716	0.770	1353	1558	7.08e5	9.96e5	523.0	639.5	NO	bb	db	10.159
13468-PECDF	27.130	0.907	4.114e5	2.589e5	1.246	1.589	1.550	595	1053	6.34e6	3.96e6	10655.4	3766.5	NO	bb	bb	40.167
12389-PECDF	32.318	1.080	2.852e5	1.879e5	0.496	1.518	1.550	1851	2183	4.07e6	2.66e6	2198.8	1220.5	NO	bb	bb	71.173
123468-HXCDF	33.243	0.953	3.377e5	2.647e5	1.169	1.276	1.240	2496	2309	4.94e6	3.89e6	1977.7	1684.8	NO	bb	bb	51.158
1368-TCDD	23.542	0.892	6.792e4	8.546e4	1.015	0.795	0.770	1392	1419	1.08e6	1.33e6	773.5	937.2	NO	bb	bb	12.909
1289-TCDD	27.017	1.024	4.998e4	6.343e4	0.909	0.788	0.770	1392	1419	7.54e5	9.20e5	541.7	648.2	NO	bb	bb	10.666
12479-PECDD	28.830	0.915	4.705e5	3.017e5	2.301	1.560	1.550	2125	2258	4.40e6	2.82e6	2069.9	1248.4	NO	bb	bb	38.394
12389-PECDD	31.928	1.013	3.206e5	2.093e5	1.184	1.532	1.550	2125	2258	4.75e6	3.10e6	2234.0	1373.6	NO	bb	bb	51.222
124679-HXCDD	34.011	0.945	2.588e5	2.095e5	1.115	1.235	1.240	1630	1951	3.86e6	3.10e6	2368.4	1590.9	NO	bb	bb	52.766
1234679-HPCDD	39.225	0.974	2.371e5	2.245e5	1.137	1.056	1.050	2384	1785	3.70e6	3.50e6	1551.6	1963.3	NO	bb	bb	57.404
Total-tetrafurans			1.712e5		0.727			1353		2.66e6							33.319
Total-penta1			4.114e5					595		6.34e6							40.167
Total-pentafurans			9.230e5		0.654			1851		1.36e7							183.427
Total-hexafurans			1.652e6		1.141			2496		2.49e7							259.059
Total-heptafurans			3.985e5		0.978			1765		6.01e6							100.866
Total-Furans			3.787e6		0.922			1353		5.62e7							712.383
Total-tetradoxins			2.900e5		1.024			1392		4.03e6							54.831
Total-pentadoxins			1.076e6		1.502			2125		1.35e7							142.321
Total-hexadoxins			1.036e6		1.005			1630		1.57e7							221.351
Total-heptadoxins			4.259e5		1.088			2384		6.53e6							107.722
Total-Dioxins			3.134e6		1.130			1392		4.34e7							627.185
Total-TEQ			6.922e6					1392		9.96e7							1339.568
FUNCTION1 PFK			1.287e8					480939		7.78e7							
FUNCTION2 PFK			2.294e5					368071		7.90e6							0.000
FUNCTION3 PFK			4.670e6					441569		4.16e7							0.000
FUNCTION4 PFK			6.522e6					268404		5.42e6							
FUNCTION5 PFK			1.422e4					172767		4.74e5							
FUNCTION1 HXCD...			1.781e2					551		4.49e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			7.882e2					649		1.16e4							0.000
FUNCTION3 OCDPE			1.028e3					525		1.83e4							0.000
FUNCTION4 NCDPE			1.148e2					561		1.62e3							0.000
FUNCTION5 DCDPE			2.013e2					535		3.46e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:09:47 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32****Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27****ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	4.831e4	6.748e4	0.678	0.72	0.77	523.0	YES	NO	bb	db	10.159
2	2378-TCDF	25.77	5.083e4	7.120e4	0.702	0.71	0.77	569.6	YES	NO	bb	bb	10.346
3	Total-tetrafurans	24.69	4.425e2	5.894e2	0.727	0.75	0.77	4.9	YES	NO	dd	db	0.084
4	1368-TCDF	22.27	7.159e4	9.994e4	0.802	0.72	0.77	868.4	YES	NO	bb	bb	12.729

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.13	4.114e5	2.589e5	1.246	1.59	1.55	10655.4	YES	NO	bb	bb	40.167

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.32	2.852e5	1.879e5	0.496	1.52	1.55	2198.8	YES	NO	bb	bb	71.173
2	23478-PeCDF	31.28	3.027e5	1.978e5	0.786	1.53	1.55	2462.9	YES	NO	bb	bb	50.498
3	12378-PeCDF	29.94	2.876e5	1.893e5	0.679	1.52	1.55	2279.8	YES	NO	bb	bb	52.431
4	Total-pentafurans	28.79	4.758e4	3.167e4	0.654	1.50	1.55	386.5	YES	NO	bb	bb	9.324

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.91	3.224e5	2.724e5	1.140	1.18	1.24	2011.5	YES	NO	bb	bb	54.001
2	123678-HxCDF	35.04	3.802e5	2.764e5	1.091	1.38	1.24	2153.8	YES	NO	dd	db	53.964
3	123478-HxCDF	34.90	3.310e5	2.591e5	1.166	1.28	1.24	2091.3	YES	NO	bd	bd	50.249
4	123468-HxCDF	33.24	3.377e5	2.647e5	1.169	1.28	1.24	1977.7	YES	NO	bb	bb	51.158
5	123789-HxCDF	36.93	2.804e5	2.154e5	1.137	1.30	1.24	1736.6	YES	NO	bb	bb	49.687

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.01	1.644e5	1.665e5	0.953	0.99	1.05	1305.3	YES	NO	bb	bb	51.852
2	Total-heptafurans	39.44	1.997e3	1.803e3	0.978	1.11	1.05	17.7	YES	NO	bb	bb	0.482
3	1234678-HpCDF	38.78	2.320e5	2.268e5	1.003	1.02	1.05	2082.5	YES	NO	bb	bb	48.532

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:09:47 Pacific Standard Time

**ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	4.831e4	6.748e4	0.678	0.72	0.77	523.0	YES	NO	bb	db	10.159
2	2378-TCDF	25.77	5.083e4	7.120e4	0.702	0.71	0.77	569.6	YES	NO	bb	bb	10.346
3	Total-tetrafurans	24.69	4.425e2	5.894e2	0.727	0.75	0.77	4.9	YES	NO	dd	db	0.084
4	1368-TCDF	22.27	7.159e4	9.994e4	0.802	0.72	0.77	868.4	YES	NO	bb	bb	12.729
5	12389-PECDF	32.32	2.852e5	1.879e5	0.496	1.52	1.55	2198.8	YES	NO	bb	bb	71.173
6	23478-PeCDF	31.28	3.027e5	1.978e5	0.786	1.53	1.55	2462.9	YES	NO	bb	bb	50.498
7	12378-PeCDF	29.94	2.876e5	1.893e5	0.679	1.52	1.55	2279.8	YES	NO	bb	bb	52.431
8	Total-pentafurans	28.79	4.758e4	3.167e4	0.654	1.50	1.55	386.5	YES	NO	bb	bb	9.324
9	234678-HxCDF	35.91	3.224e5	2.724e5	1.140	1.18	1.24	2011.5	YES	NO	bb	bb	54.001
10	123678-HxCDF	35.04	3.802e5	2.764e5	1.091	1.38	1.24	2153.8	YES	NO	dd	db	53.964
11	123478-HxCDF	34.90	3.310e5	2.591e5	1.166	1.28	1.24	2091.3	YES	NO	bd	bd	50.249
12	123468-HXCDF	33.24	3.377e5	2.647e5	1.169	1.28	1.24	1977.7	YES	NO	bb	bb	51.158
13	123789-HxCDF	36.93	2.804e5	2.154e5	1.137	1.30	1.24	1736.6	YES	NO	bb	bb	49.687
14	1234789-HpCDF	41.01	1.644e5	1.665e5	0.953	0.99	1.05	1305.3	YES	NO	bb	bb	51.852
15	Total-heptafurans	39.44	1.997e3	1.803e3	0.978	1.11	1.05	17.7	YES	NO	bb	bb	0.482
16	1234678-HpCDF	38.78	2.320e5	2.268e5	1.003	1.02	1.05	2082.5	YES	NO	bb	bb	48.532
17	OCDF	45.25	2.317e5	2.921e5	0.778	0.79	0.89	1743.8	YES	NO	bb	bd	95.546
18	13468-PECDF	27.13	4.114e5	2.589e5	1.246	1.59	1.55	10655.4	YES	NO	bb	bb	40.167

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.02	4.998e4	6.343e4	0.909	0.79	0.77	541.7	YES	NO	bb	bb	10.666
2	2378-TCDD	26.42	5.747e4	7.347e4	1.149	0.78	0.77	626.6	YES	NO	bb	bb	9.742
3	Total-tetradioxins	26.10	8.701e4	1.068e5	1.024	0.81	0.77	642.2	YES	NO	bb	bb	16.174
4	Total-tetradioxins	25.60	2.699e4	3.554e4	1.024	0.76	0.77	304.7	YES	NO	bb	bb	5.217
5	Total-tetradioxins	25.03	6.443e2	8.383e2	1.024	0.77	0.77	5.1	YES	NO	db	bb	0.124
6	1368-TCDD	23.54	6.792e4	8.546e4	1.015	0.79	0.77	773.5	YES	NO	bb	bb	12.909

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.53	2.835e5	1.858e5	1.022	1.53	1.55	2061.0	YES	NO	bb	bb	52.552
2	Total-pentadioxins	30.86	1.204e3	8.057e2	1.502	1.49	1.55	8.3	YES	NO	bb	bb	0.153
3	12479-PECDD	28.83	4.705e5	3.017e5	2.301	1.56	1.55	2069.9	YES	NO	bb	bb	38.394
4	12389-PECDD	31.93	3.206e5	2.093e5	1.184	1.53	1.55	2234.0	YES	NO	bb	bb	51.222

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk****HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	34.01	2.588e5	2.095e5	1.115	1.24	1.24	2368.4	YES	NO	bb	bb	52.766
2	123789-HxCDD	36.52	2.570e5	1.994e5	0.907	1.29	1.24	2394.4	YES	NO	bd	bb	59.281
3	123678-HxCDD	36.13	2.783e5	2.149e5	1.001	1.29	1.24	2445.2	YES	NO	db	db	54.626
4	123478-HxCDD	36.02	2.392e5	1.889e5	0.996	1.27	1.24	2428.3	YES	NO	bd	bd	54.056
5	Total-hexadioxins	35.11	2.219e3	1.924e3	1.005	1.15	1.24	12.7	YES	NO	db	db	0.486
6	Total-hexadioxins	34.77	6.030e2	5.595e2	1.005	1.08	1.24	6.5	YES	NO	bd	bb	0.136

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	1.888e5	1.810e5	1.039	1.04	1.05	1188.7	YES	NO	bb	bb	50.318
2	1234679-HPCDD	39.23	2.371e5	2.245e5	1.137	1.06	1.05	1551.6	YES	NO	bb	bb	57.404

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.02	4.998e4	6.343e4	0.909	0.79	0.77	541.7	YES	NO	bb	bb	10.666
2	2378-TCDD	26.42	5.747e4	7.347e4	1.149	0.78	0.77	626.6	YES	NO	bb	bb	9.742
3	Total-tetradioxins	26.10	8.701e4	1.068e5	1.024	0.81	0.77	642.2	YES	NO	bb	bb	16.174
4	Total-tetradioxins	25.60	2.699e4	3.554e4	1.024	0.76	0.77	304.7	YES	NO	bb	bb	5.217
5	Total-tetradioxins	25.03	6.443e2	8.383e2	1.024	0.77	0.77	5.1	YES	NO	db	bb	0.124
6	1368-TCDD	23.54	6.792e4	8.546e4	1.015	0.79	0.77	773.5	YES	NO	bb	bb	12.909
7	12378-PeCDD	31.53	2.835e5	1.858e5	1.022	1.53	1.55	2061.0	YES	NO	bb	bb	52.552
8	Total-pentadioxins	30.86	1.204e3	8.057e2	1.502	1.49	1.55	8.3	YES	NO	bb	bb	0.153
9	12479-PECDD	28.83	4.705e5	3.017e5	2.301	1.56	1.55	2069.9	YES	NO	bb	bb	38.394
10	124679-HxCDD	34.01	2.588e5	2.095e5	1.115	1.24	1.24	2368.4	YES	NO	bb	bb	52.766
11	12389-PECDD	31.93	3.206e5	2.093e5	1.184	1.53	1.55	2234.0	YES	NO	bb	bb	51.222
12	123789-HxCDD	36.52	2.570e5	1.994e5	0.907	1.29	1.24	2394.4	YES	NO	bd	bb	59.281
13	123678-HxCDD	36.13	2.783e5	2.149e5	1.001	1.29	1.24	2445.2	YES	NO	db	db	54.626
14	123478-HxCDD	36.02	2.392e5	1.889e5	0.996	1.27	1.24	2428.3	YES	NO	bd	bd	54.056
15	Total-hexadioxins	35.11	2.219e3	1.924e3	1.005	1.15	1.24	12.7	YES	NO	db	db	0.486
16	Total-hexadioxins	34.77	6.030e2	5.595e2	1.005	1.08	1.24	6.5	YES	NO	bd	bb	0.136
17	1234678-HpCDD	40.27	1.888e5	1.810e5	1.039	1.04	1.05	1188.7	YES	NO	bb	bb	50.318
18	1234679-HPCDD	39.23	2.371e5	2.245e5	1.137	1.06	1.05	1551.6	YES	NO	bb	bb	57.404
19	OCDD	45.01	3.066e5	3.480e5	0.920	0.88	0.89	2969.4	YES	NO	bb	bb	100.959

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	4.831e4	6.748e4	0.678	0.72	0.77	523.0	YES	NO	bb	db	10.159
2	2378-TCDF	25.77	5.083e4	7.120e4	0.702	0.71	0.77	569.6	YES	NO	bb	bb	10.346
3	Total-tetrafurans	24.69	4.425e2	5.894e2	0.727	0.75	0.77	4.9	YES	NO	dd	db	0.084
4	1368-TCDF	22.27	7.159e4	9.994e4	0.802	0.72	0.77	868.4	YES	NO	bb	bb	12.729
5	12389-PECDF	32.32	2.852e5	1.879e5	0.496	1.52	1.55	2198.8	YES	NO	bb	bb	71.173
6	23478-PeCDF	31.28	3.027e5	1.978e5	0.786	1.53	1.55	2462.9	YES	NO	bb	bb	50.498
7	12378-PeCDF	29.94	2.876e5	1.893e5	0.679	1.52	1.55	2279.8	YES	NO	bb	bb	52.431
8	Total-pentafurans	28.79	4.758e4	3.167e4	0.654	1.50	1.55	386.5	YES	NO	bb	bb	9.324
9	234678-HxCDF	35.91	3.224e5	2.724e5	1.140	1.18	1.24	2011.5	YES	NO	bb	bb	54.001
10	123678-HxCDF	35.04	3.802e5	2.764e5	1.091	1.38	1.24	2153.8	YES	NO	dd	db	53.964
11	123478-HxCDF	34.90	3.310e5	2.591e5	1.166	1.28	1.24	2091.3	YES	NO	bd	bd	50.249
12	123468-HXCDF	33.24	3.377e5	2.647e5	1.169	1.28	1.24	1977.7	YES	NO	bb	bb	51.158
13	123789-HxCDF	36.93	2.804e5	2.154e5	1.137	1.30	1.24	1736.6	YES	NO	bb	bb	49.687
14	1234789-HpCDF	41.01	1.644e5	1.665e5	0.953	0.99	1.05	1305.3	YES	NO	bb	bb	51.852
15	Total-heptafurans	39.44	1.997e3	1.803e3	0.978	1.11	1.05	17.7	YES	NO	bb	bb	0.482
16	1234678-HpCDF	38.78	2.320e5	2.268e5	1.003	1.02	1.05	2082.5	YES	NO	bb	bb	48.532
17	OCDF	45.25	2.317e5	2.921e5	0.778	0.79	0.89	1743.8	YES	NO	bb	bd	95.546
18	13468-PECDF	27.13	4.114e5	2.589e5	1.246	1.59	1.55	10655.4	YES	NO	bb	bb	40.167
19	1289-TCDD	27.02	4.998e4	6.343e4	0.909	0.79	0.77	541.7	YES	NO	bb	bb	10.666
20	2378-TCDD	26.42	5.747e4	7.347e4	1.149	0.78	0.77	626.6	YES	NO	bb	bb	9.742
21	Total-tetradiioxins	26.10	8.701e4	1.068e5	1.024	0.81	0.77	642.2	YES	NO	bb	bb	16.174
22	Total-tetradiioxins	25.60	2.699e4	3.554e4	1.024	0.76	0.77	304.7	YES	NO	bb	bb	5.217
23	Total-tetradiioxins	25.03	6.443e2	8.383e2	1.024	0.77	0.77	5.1	YES	NO	db	bb	0.124
24	1368-TCDD	23.54	6.792e4	8.546e4	1.015	0.79	0.77	773.5	YES	NO	bb	bb	12.909
25	12378-PeCDD	31.53	2.835e5	1.858e5	1.022	1.53	1.55	2061.0	YES	NO	bb	bb	52.552
26	Total-pentadiioxins	30.86	1.204e3	8.057e2	1.502	1.49	1.55	8.3	YES	NO	bb	bb	0.153
27	12479-PECDD	28.83	4.705e5	3.017e5	2.301	1.56	1.55	2069.9	YES	NO	bb	bb	38.394
28	124679-HXCDD	34.01	2.588e5	2.095e5	1.115	1.24	1.24	2368.4	YES	NO	bb	bb	52.766
29	12389-PECDD	31.93	3.206e5	2.093e5	1.184	1.53	1.55	2234.0	YES	NO	bb	bb	51.222
30	123789-HxCDD	36.52	2.570e5	1.994e5	0.907	1.29	1.24	2394.4	YES	NO	bd	bb	59.281
31	123678-HxCDD	36.13	2.783e5	2.149e5	1.001	1.29	1.24	2445.2	YES	NO	db	db	54.626
32	123478-HxCDD	36.02	2.392e5	1.889e5	0.996	1.27	1.24	2428.3	YES	NO	bd	bd	54.056
33	Total-hexadiioxins	35.11	2.219e3	1.924e3	1.005	1.15	1.24	12.7	YES	NO	db	db	0.486
34	Total-hexadiioxins	34.77	6.030e2	5.595e2	1.005	1.08	1.24	6.5	YES	NO	bd	bb	0.136
35	1234678-HpCDD	40.27	1.888e5	1.810e5	1.039	1.04	1.05	1188.7	YES	NO	bb	bb	50.318
36	1234679-HPCDD	39.23	2.371e5	2.245e5	1.137	1.06	1.05	1551.6	YES	NO	bb	bb	57.404
37	OCDD	45.01	3.066e5	3.480e5	0.920	0.88	0.89	2969.4	YES	NO	bb	bb	100.959



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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.77	2.150e7					37.5	YES		db		
2	FUNCTION1 PFK	24.05	1.528e7					52.7	YES		dd		
3	FUNCTION1 PFK	21.82	9.197e7					71.6	YES		bd		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.16	3.646e4					1.7	NO		bb		0.000
2	FUNCTION2 PFK	30.45	7.458e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	30.18	4.955e3					0.7	NO		bb		0.000
4	FUNCTION2 PFK	29.23	2.125e3					0.5	NO		bb		0.000
5	FUNCTION2 PFK	29.11	2.139e3					0.5	NO		bb		0.000
6	FUNCTION2 PFK	29.00	1.391e4					1.1	NO		bb		0.000
7	FUNCTION2 PFK	28.63	7.963e3					1.2	NO		bb		0.000
8	FUNCTION2 PFK	28.59	1.234e4					1.2	NO		bb		0.000
9	FUNCTION2 PFK	28.24	1.820e4					1.6	NO		bb		0.000
10	FUNCTION2 PFK	28.14	3.183e4					2.3	NO		db		0.000
11	FUNCTION2 PFK	28.10	1.737e4					1.8	NO		bd		0.000
12	FUNCTION2 PFK	32.77	9.513e3					1.2	NO		bb		0.000
13	FUNCTION2 PFK	32.66	9.904e3					1.3	NO		bb		0.000
14	FUNCTION2 PFK	32.62	2.695e3					0.7	NO		bb		0.000
15	FUNCTION2 PFK	31.89	4.702e3					0.7	NO		bb		0.000
16	FUNCTION2 PFK	31.73	9.810e3					1.3	NO		bb		0.000
17	FUNCTION2 PFK	31.48	3.477e3					0.8	NO		bb		0.000
18	FUNCTION2 PFK	31.38	3.452e4					1.8	NO		bb		0.000

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## PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.88	1.781e4					1.5	NO		bd		0.000
2	FUNCTION3 PFK	33.81	7.269e3					0.9	NO		db		0.000
3	FUNCTION3 PFK	33.78	2.381e4					1.4	NO		dd		0.000
4	FUNCTION3 PFK	33.71	3.212e3					0.5	NO		bd		0.000
5	FUNCTION3 PFK	33.48	4.156e5					3.3	YES		db		0.000
6	FUNCTION3 PFK	33.22	1.463e6					12.3	YES		dd		0.000
7	FUNCTION3 PFK	33.03	1.532e6					19.3	YES		dd		0.000
8	FUNCTION3 PFK	32.87	7.239e5					24.8	YES		bd		0.000
9	FUNCTION3 PFK	36.12	2.242e3					0.5	NO		bb		0.000
10	FUNCTION3 PFK	35.96	1.252e4					1.1	NO		bb		0.000
11	FUNCTION3 PFK	35.88	1.933e4					1.1	NO		bb		0.000
12	FUNCTION3 PFK	35.72	1.564e4					1.1	NO		bb		0.000
13	FUNCTION3 PFK	35.62	8.677e3					0.8	NO		bb		0.000
14	FUNCTION3 PFK	35.55	2.371e3					0.4	NO		bb		0.000
15	FUNCTION3 PFK	35.50	3.922e3					0.5	NO		bb		0.000
16	FUNCTION3 PFK	35.13	5.215e3					0.6	NO		bb		0.000
17	FUNCTION3 PFK	35.08	7.941e3					0.7	NO		db		0.000
18	FUNCTION3 PFK	35.05	5.125e3					0.8	NO		bd		0.000
19	FUNCTION3 PFK	34.68	3.000e4					1.9	NO		bb		0.000
20	FUNCTION3 PFK	34.49	1.546e4					0.9	NO		bb		0.000
21	FUNCTION3 PFK	34.31	7.893e3					0.7	NO		db		0.000
22	FUNCTION3 PFK	34.26	2.005e4					1.1	NO		dd		0.000
23	FUNCTION3 PFK	34.20	2.089e3					0.4	NO		bd		0.000
24	FUNCTION3 PFK	33.92	9.311e3					0.8	NO		db		0.000
25	FUNCTION3 PFK	37.77	6.892e3					0.7	NO		bb		0.000
26	FUNCTION3 PFK	37.70	2.011e4					1.4	NO		bb		0.000
27	FUNCTION3 PFK	37.35	4.647e3					0.4	NO		bb		0.000
28	FUNCTION3 PFK	37.28	3.070e4					1.7	NO		db		0.000
29	FUNCTION3 PFK	37.23	1.847e4					1.0	NO		dd		0.000
30	FUNCTION3 PFK	37.14	1.913e4					1.2	NO		bd		0.000
31	FUNCTION3 PFK	37.10	3.339e3					0.7	NO		bb		0.000
32	FUNCTION3 PFK	37.05	8.492e3					0.8	NO		bb		0.000
33	FUNCTION3 PFK	36.70	1.206e4					0.7	NO		bb		0.000
34	FUNCTION3 PFK	36.58	4.220e4					1.8	NO		db		0.000
35	FUNCTION3 PFK	36.50	1.679e4					1.3	NO		bd		0.000
36	FUNCTION3 PFK	36.44	8.448e4					2.2	NO		db		0.000
37	FUNCTION3 PFK	36.25	3.418e4					2.0	NO		dd		0.000

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	36.19	1.423e4					1.1	NO		bd		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.79	6.374e6					16.5	YES		bb		
2	FUNCTION4 PFK	40.70	1.483e5					3.7	YES		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.08	1.422e4					2.7	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.92	1.029e2					4.3	YES		bb		0.000
2	FUNCTION1 HXCD...	21.13	7.520e1					3.8	YES		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.32	1.241e2					2.1	NO		bb		0.000
2	FUNCTION2 HPCD...	31.50	1.913e2					4.3	YES		bb		0.000
3	FUNCTION2 HPCD...	31.14	2.761e2					7.2	YES		bb		0.000
4	FUNCTION2 HPCD...	29.72	8.300e1					1.4	NO		bb		0.000
5	FUNCTION2 HPCD...	28.80	1.137e2					2.9	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:09:47 Pacific Standard Time

**ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk****ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.06	1.071e2					9.1	YES		bb		0.000
2	FUNCTION3 OCDPE	34.92	7.553e1					2.2	NO		bb		0.000
3	FUNCTION3 OCDPE	33.15	7.277e1					3.1	YES		bb		0.000
4	FUNCTION3 OCDPE	36.93	1.177e2					2.8	NO		bb		0.000
5	FUNCTION3 OCDPE	36.50	1.514e2					4.6	YES		bb		0.000
6	FUNCTION3 OCDPE	36.12	2.259e2					5.3	YES		db		0.000
7	FUNCTION3 OCDPE	35.99	1.845e2					5.0	YES		dd		0.000
8	FUNCTION3 OCDPE	35.91	9.354e1					2.8	NO		bd		0.000

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.28	1.148e2					2.9	NO		bb		0.000

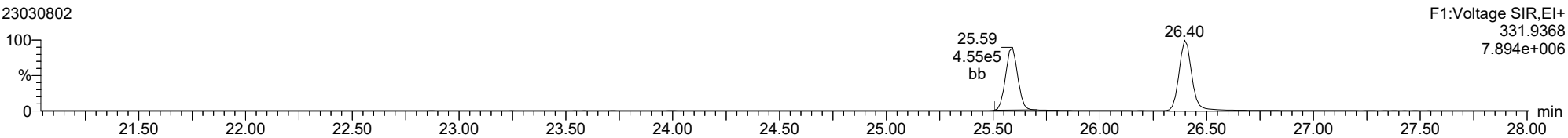
**ETHERS6**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.26	7.104e1					2.5	NO		bb		0.000
2	FUNCTION5 DCDPE	45.02	1.303e2					4.0	YES		bb		0.000

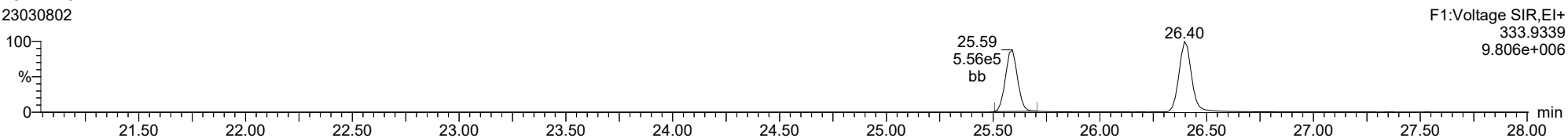
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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

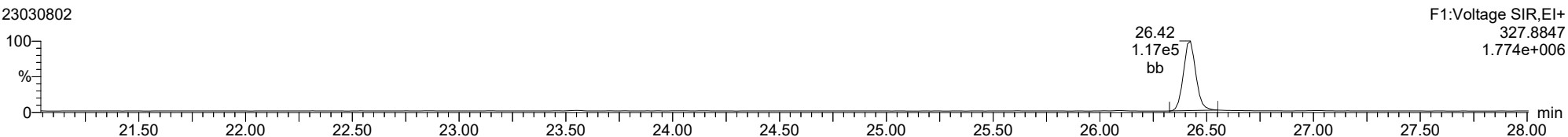
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23030802



**13C-1234-TCDD**  
23030802



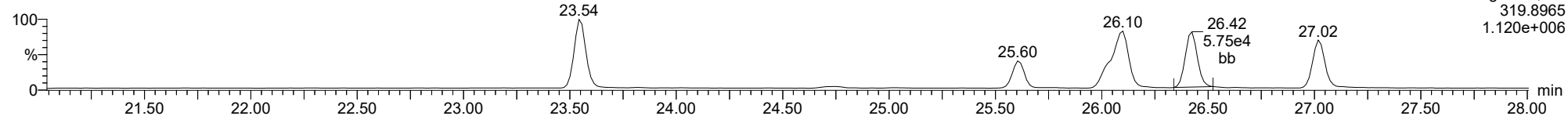
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23030802



ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

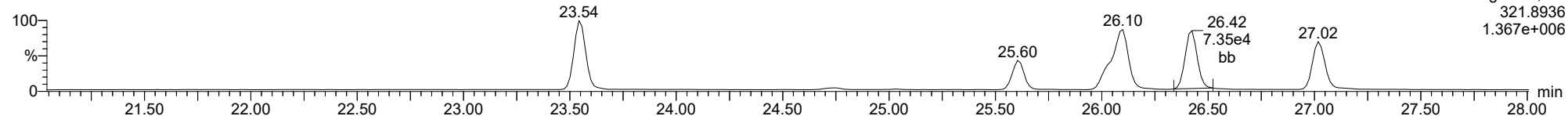
**2378-TCDD**

23030802



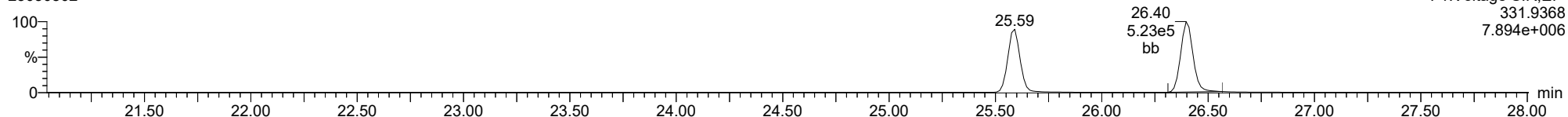
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23030802



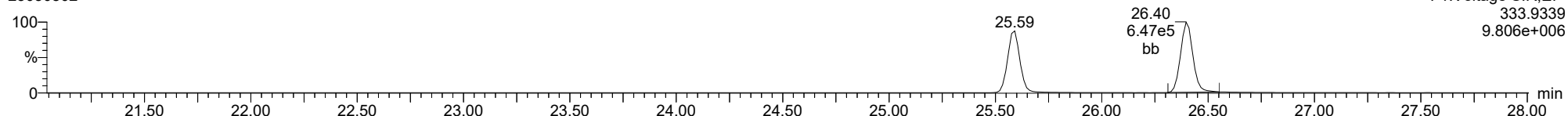
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23030802



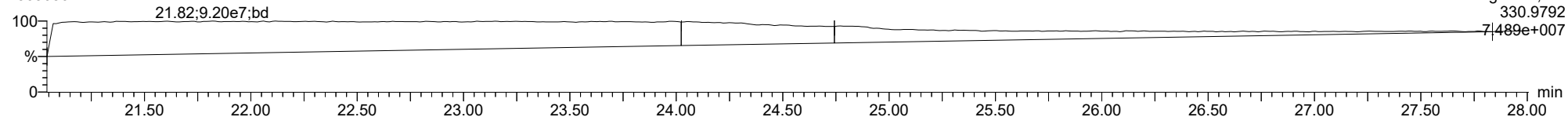
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23030802



**FUNCTION1 PFK**

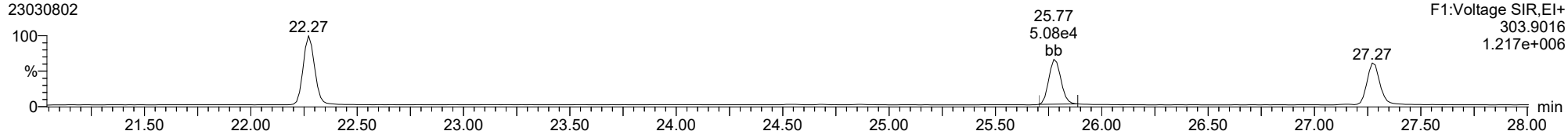
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ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

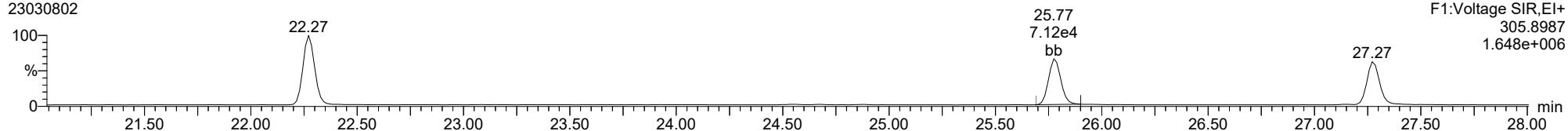
**2378-TCDF**

23030802



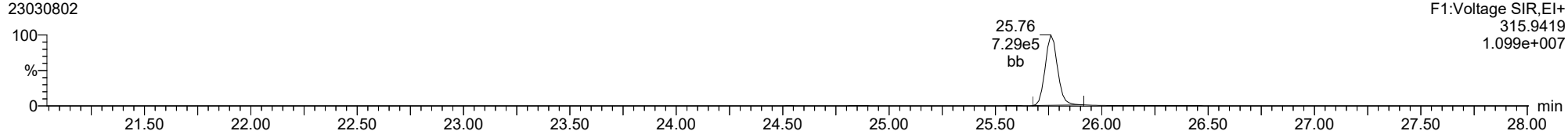
**2378-TCDF**

23030802



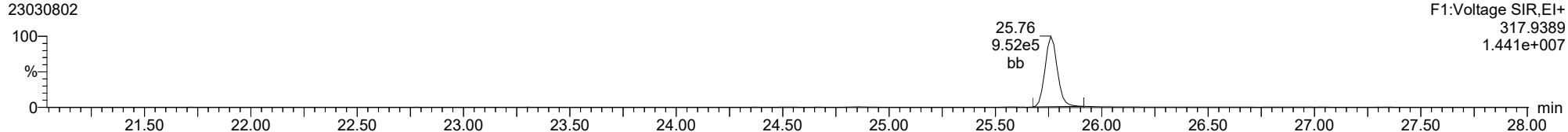
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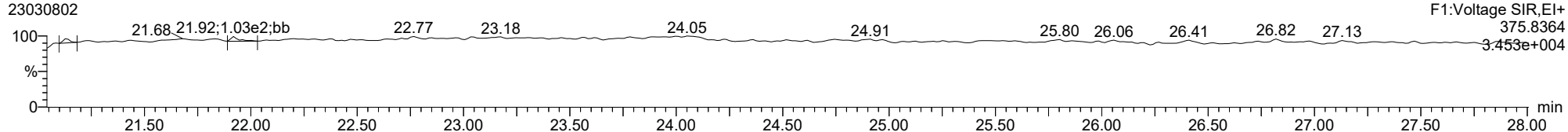
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23030802



**FUNCTION1 HXCDPE**

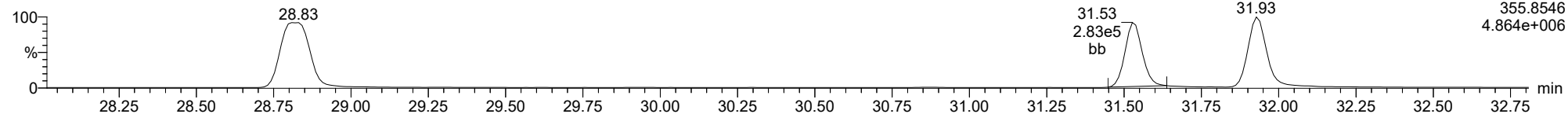
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ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

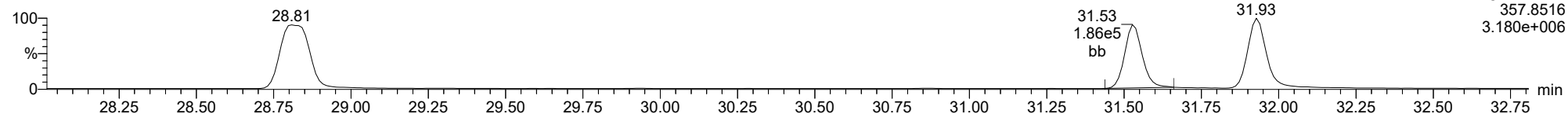
23030802



F2:Voltage SIR,EI+  
355.8546  
4.864e+006

**12378-PeCDD**

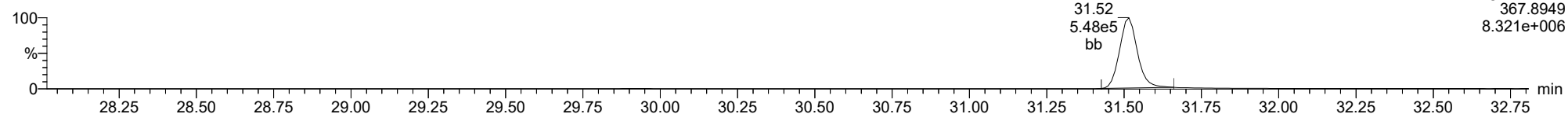
23030802



F2:Voltage SIR,EI+  
357.8516  
3.180e+006

**13C-12378-PeCDD**

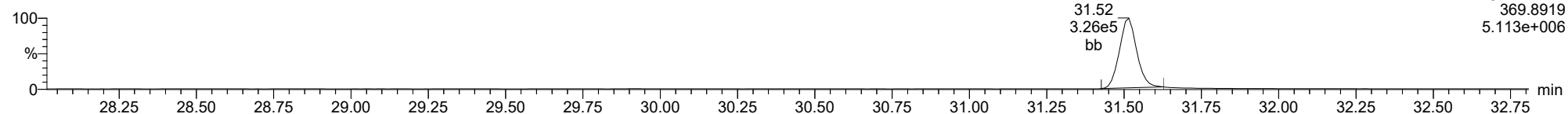
23030802



F2:Voltage SIR,EI+  
367.8949  
8.321e+006

**13C-12378-PeCDD**

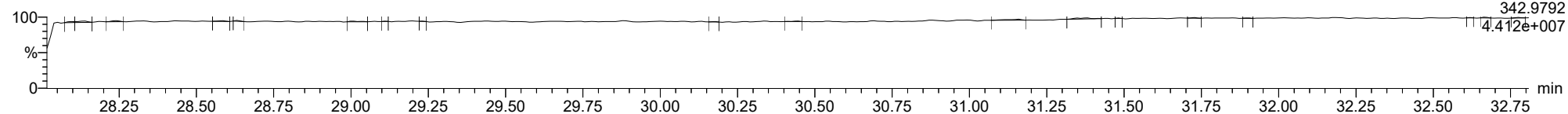
23030802



F2:Voltage SIR,EI+  
369.8919  
5.113e+006

**FUNCTION2 PFK**

23030802



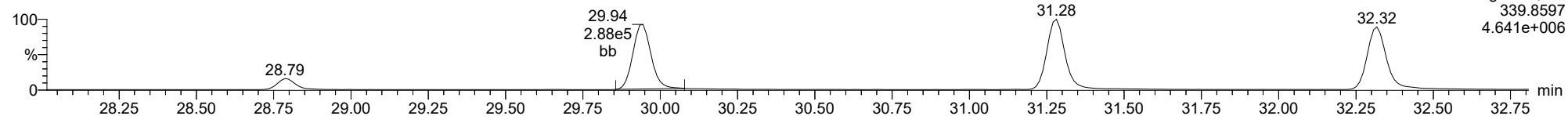
F2:Voltage SIR,EI+  
342.9792  
4.412e+007



ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

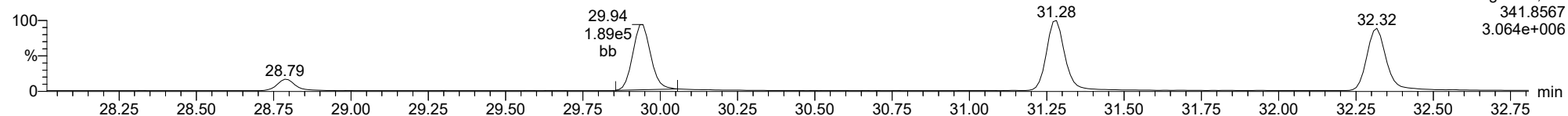
**12378-PeCDF**

23030802



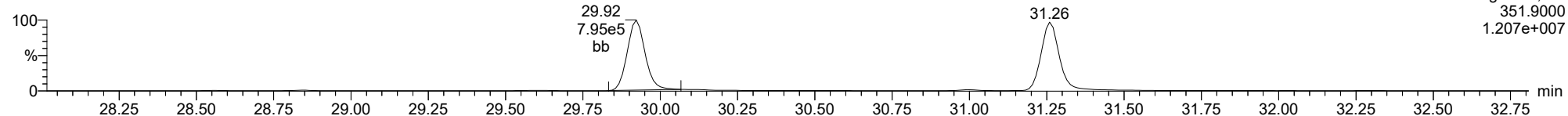
**12378-PeCDF**

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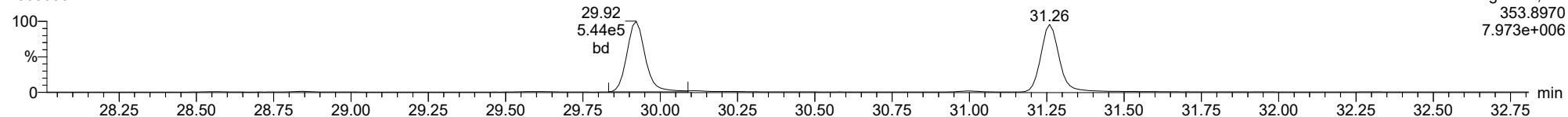
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23030802



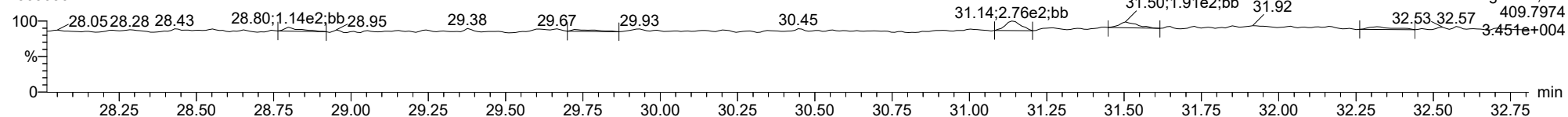
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**FUNCTION2 HPCDPE**

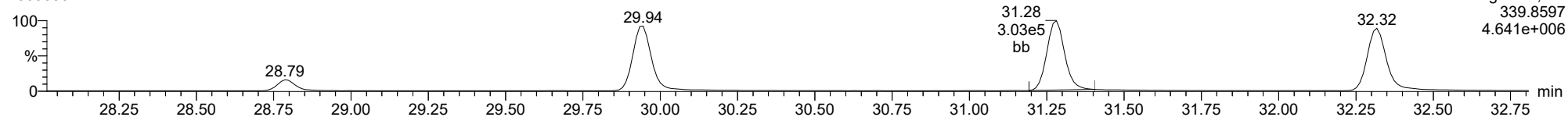
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ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

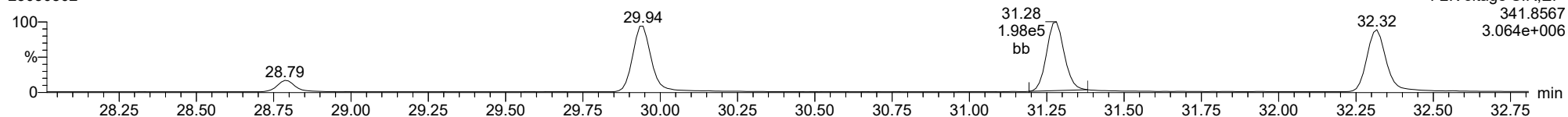
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F2:Voltage SIR,EI+  
339.8597  
4.641e+006

**23478-PeCDF**

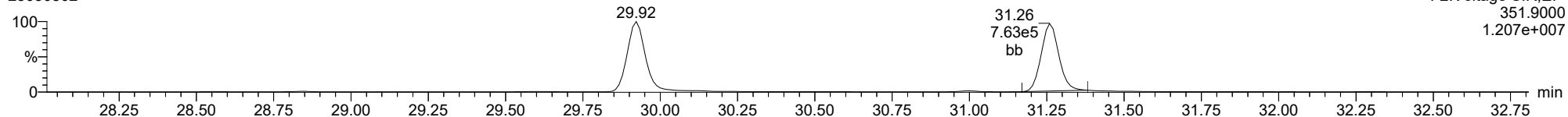
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F2:Voltage SIR,EI+  
341.8567  
3.064e+006

**13C-23478-PeCDF**

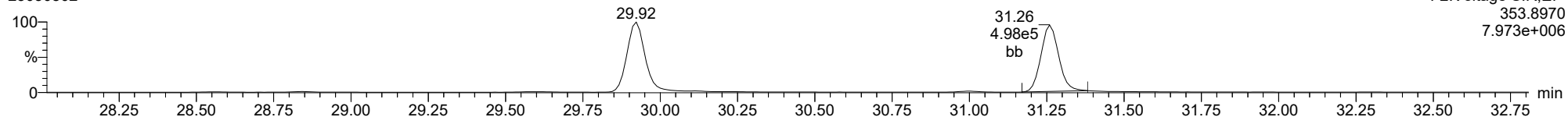
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F2:Voltage SIR,EI+  
351.9000  
1.207e+007

**13C-23478-PeCDF**

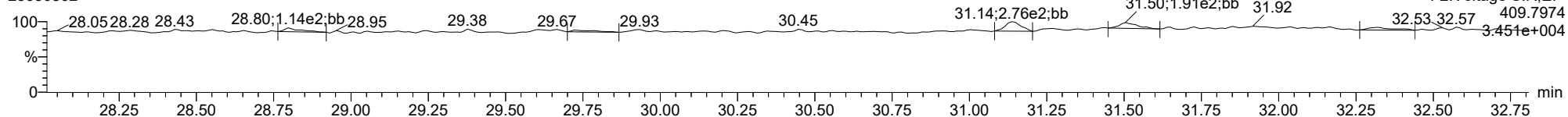
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F2:Voltage SIR,EI+  
353.8970  
7.973e+006

**FUNCTION2 HPCDPE**

23030802

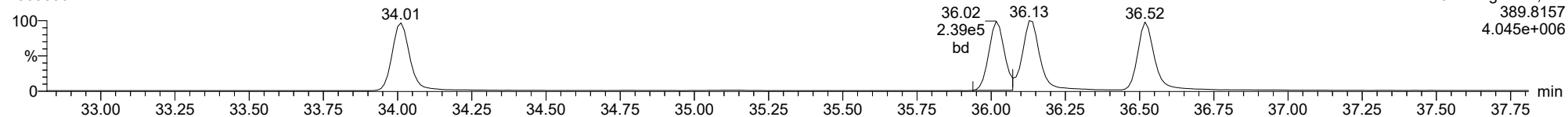


F2:Voltage SIR,EI+  
409.7974  
3.451e+004

ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

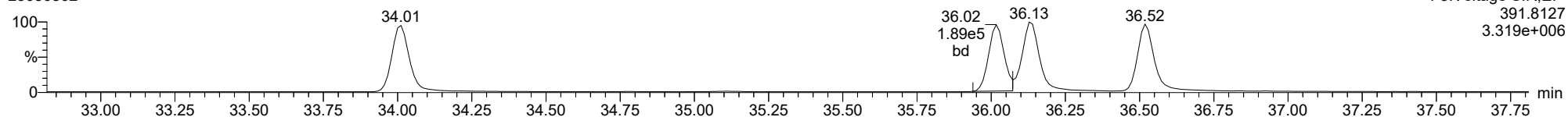
123478-HxCDD

23030802



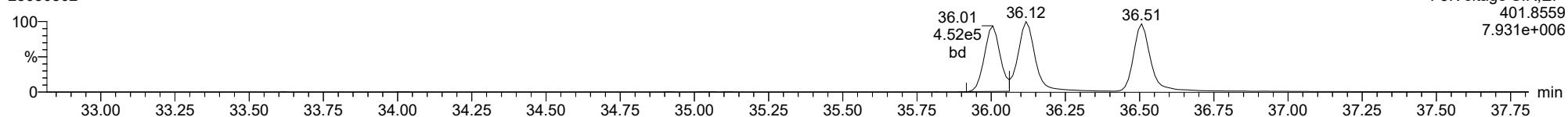
123478-HxCDD

23030802



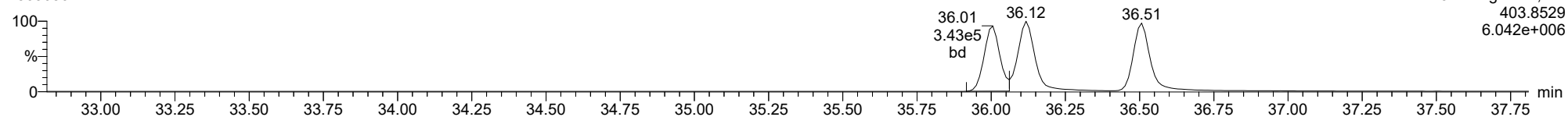
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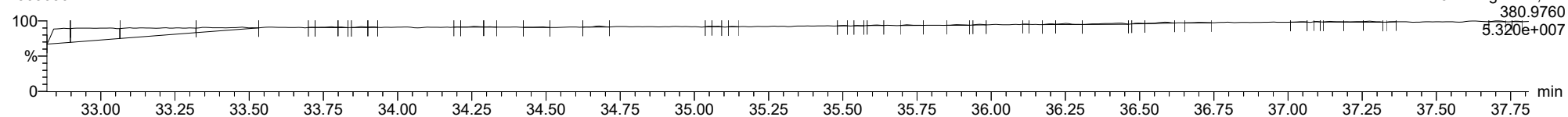
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23030802



FUNCTION3 PFK

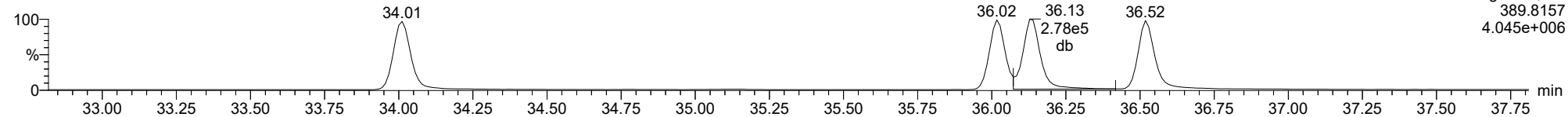
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ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

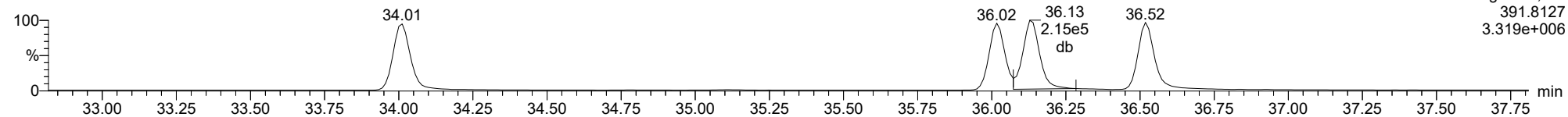
23030802



F3:Voltage SIR,EI+  
389.8157  
4.045e+006

**123678-HxCDD**

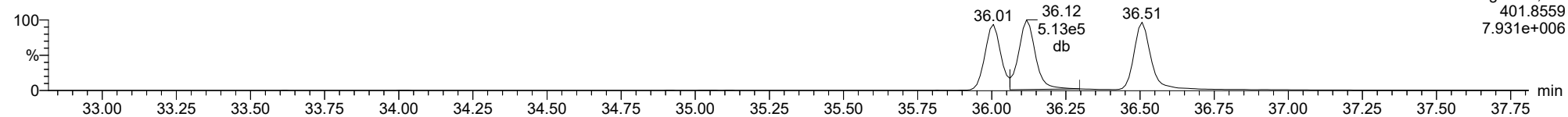
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F3:Voltage SIR,EI+  
391.8127  
3.319e+006

**13C-123678-HxCDD**

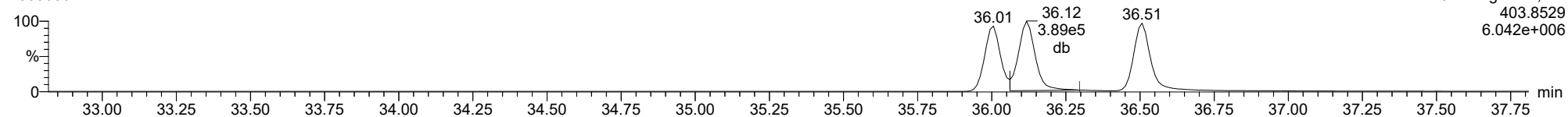
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F3:Voltage SIR,EI+  
401.8559  
7.931e+006

**13C-123678-HxCDD**

23030802

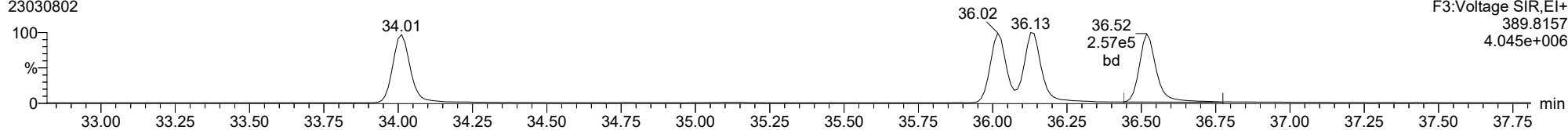


F3:Voltage SIR,EI+  
403.8529  
6.042e+006

ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

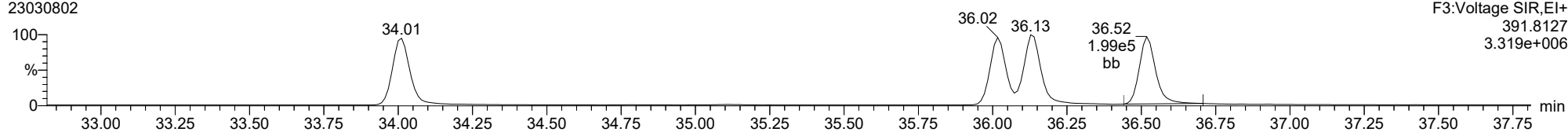
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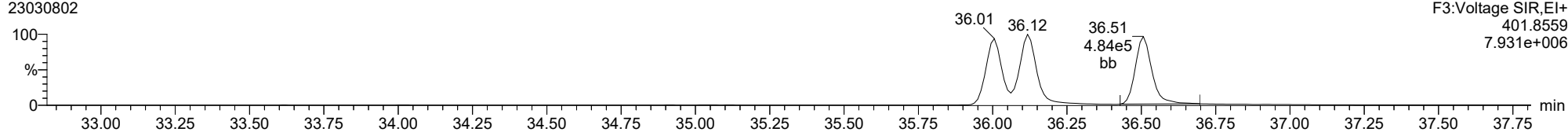
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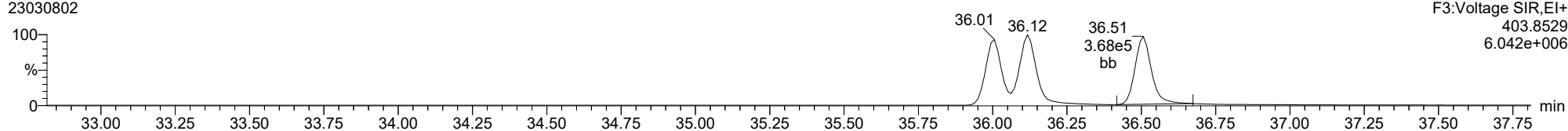
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**13C-123789-HxCDD**

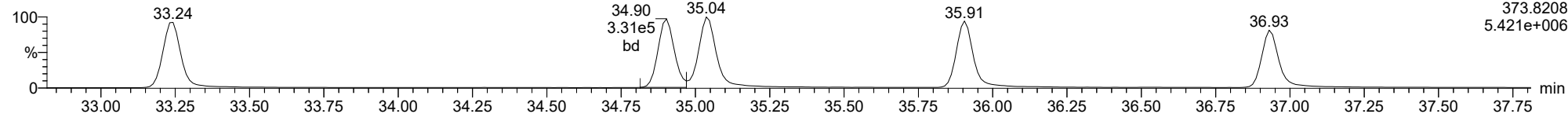
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ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

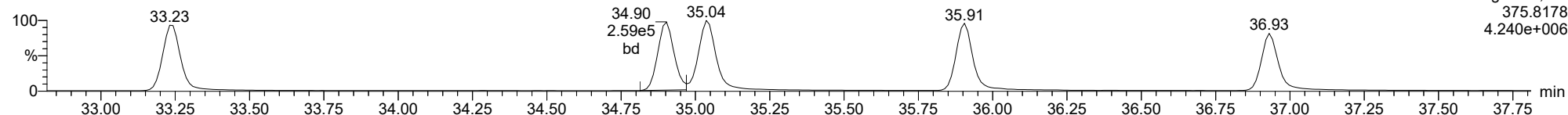
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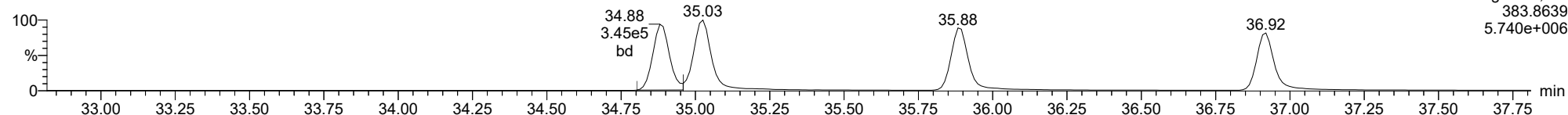
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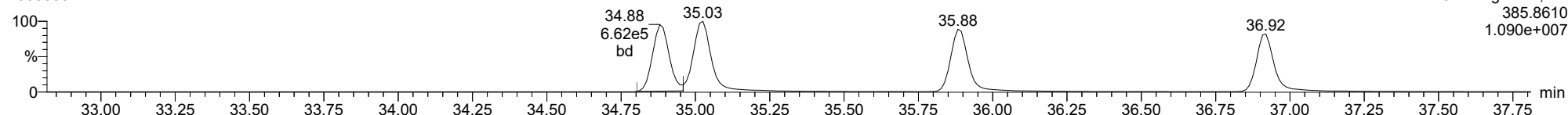
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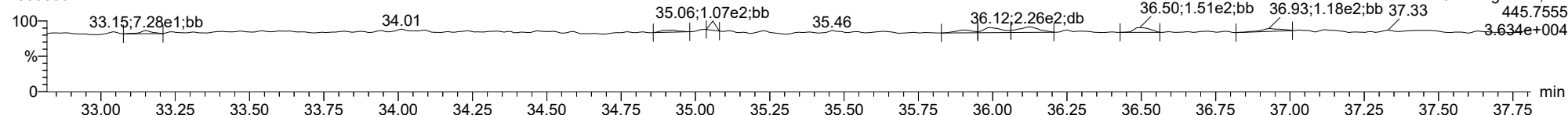
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23030802



**FUNCTION3 OCDPE**

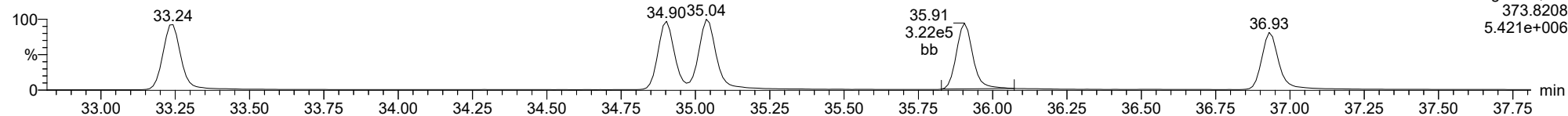
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ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

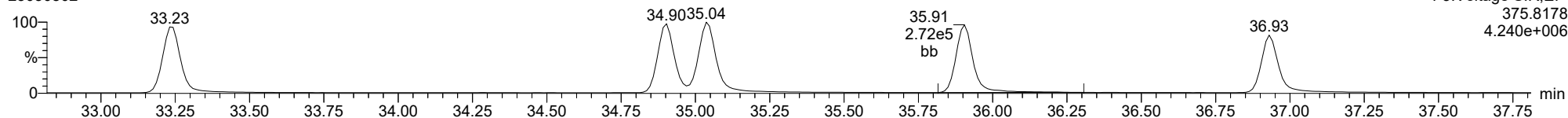
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23030802



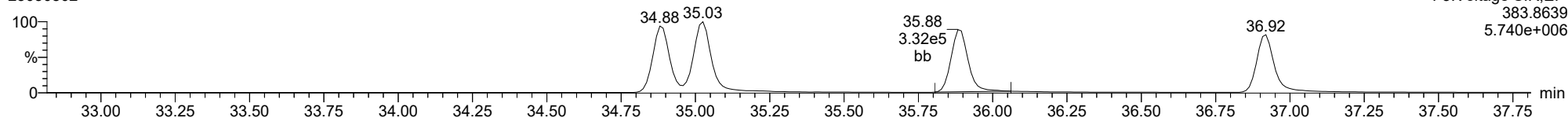
**234678-HxCDF**

23030802



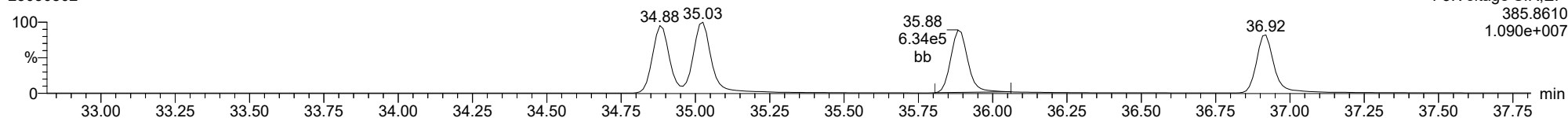
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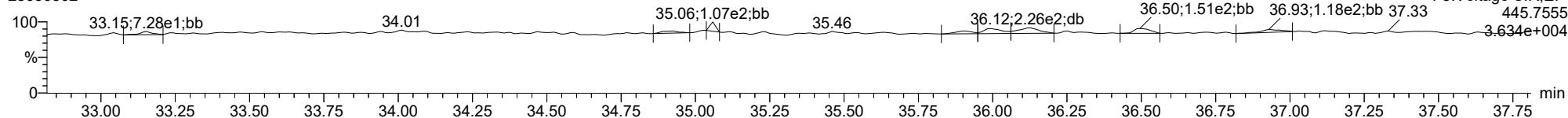
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**FUNCTION3 OCDPE**

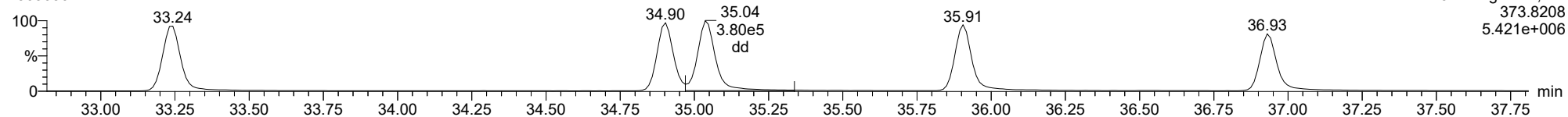
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ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

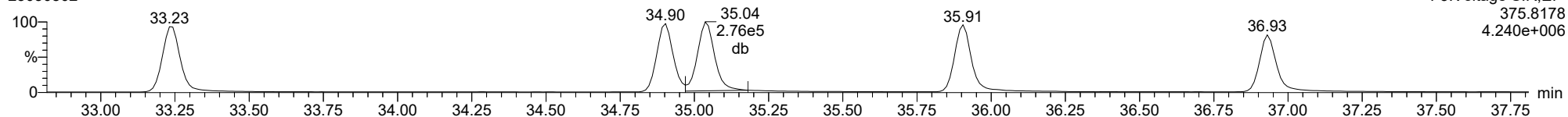
**123678-HxCDF**

23030802



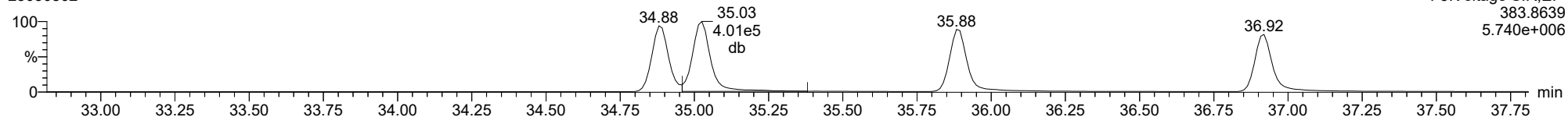
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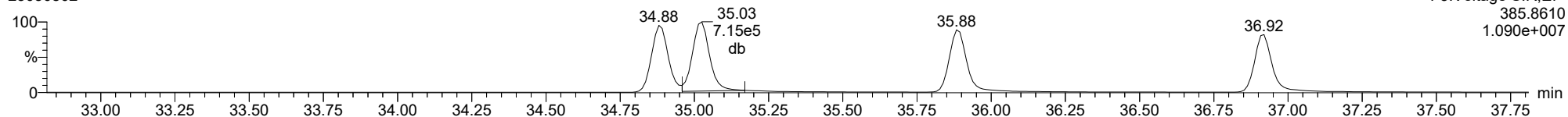
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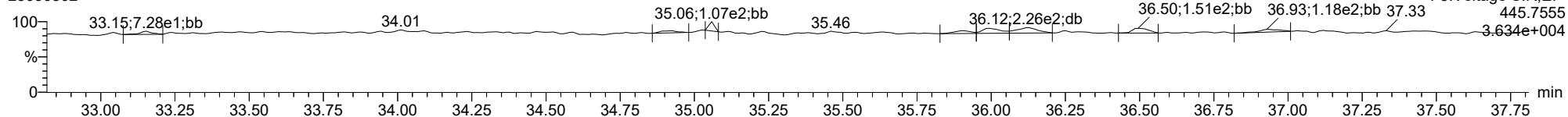
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23030802



**FUNCTION3 OCDPE**

23030802

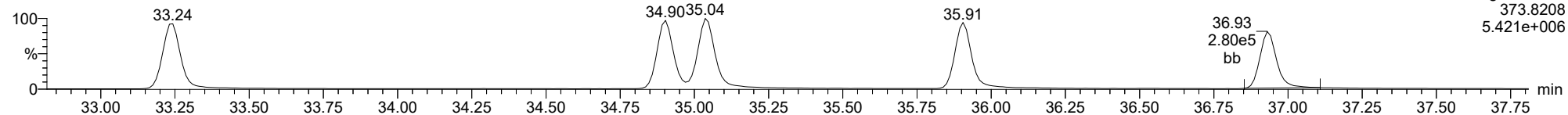




ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

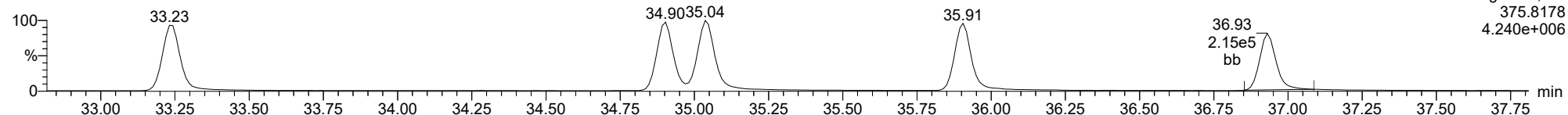
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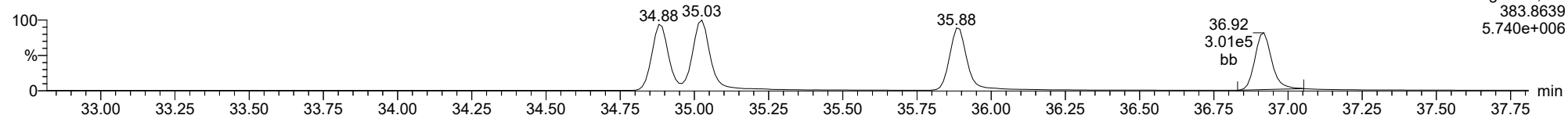
**123789-HxCDF**

23030802



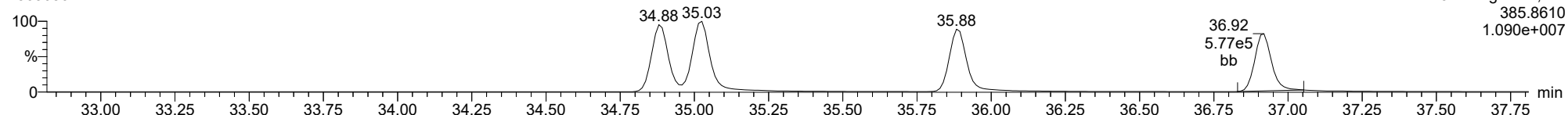
**13C-123789-HxCDF**

23030802



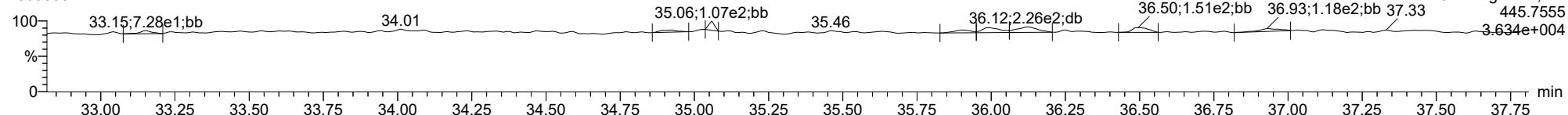
**13C-123789-HxCDF**

23030802



**FUNCTION3 OCDPE**

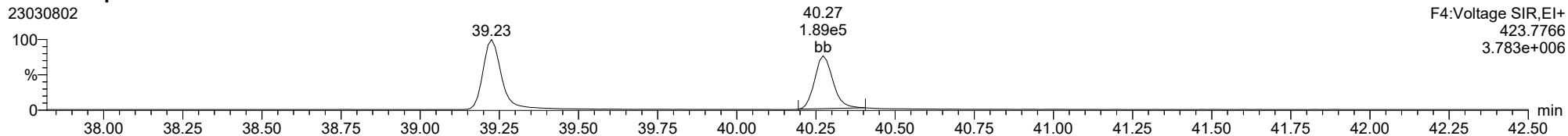
23030802



ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

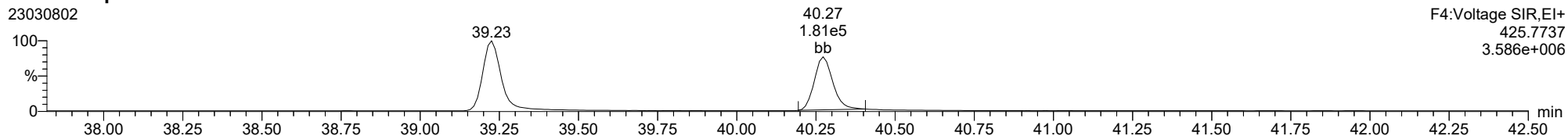
23030802



F4:Voltage SIR,EI+  
423.7766  
3.783e+006

**1234678-HpCDD**

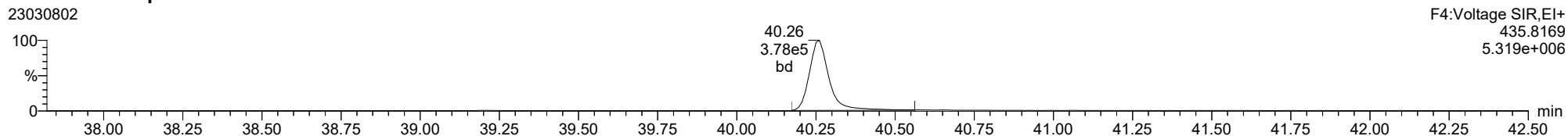
23030802



F4:Voltage SIR,EI+  
425.7737  
3.586e+006

**13C-1234678-HpCDD**

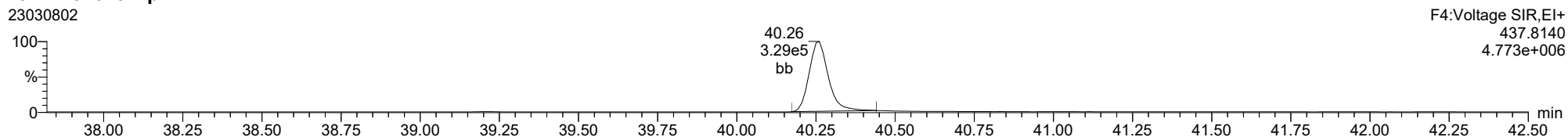
23030802



F4:Voltage SIR,EI+  
435.8169  
5.319e+006

**13C-1234678-HpCDD**

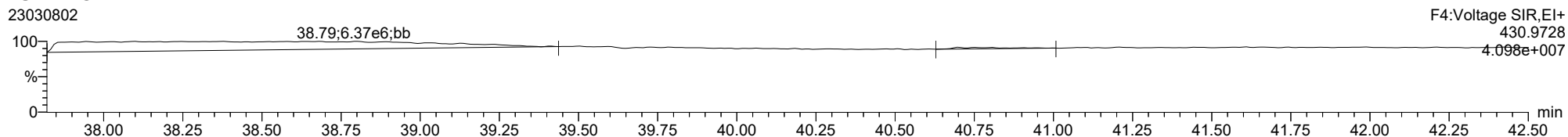
23030802



F4:Voltage SIR,EI+  
437.8140  
4.773e+006

**FUNCTION4 PFK**

23030802

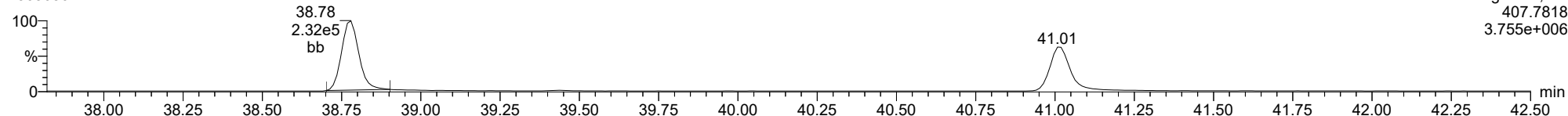


F4:Voltage SIR,EI+  
430.9728  
4.098e+007

ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

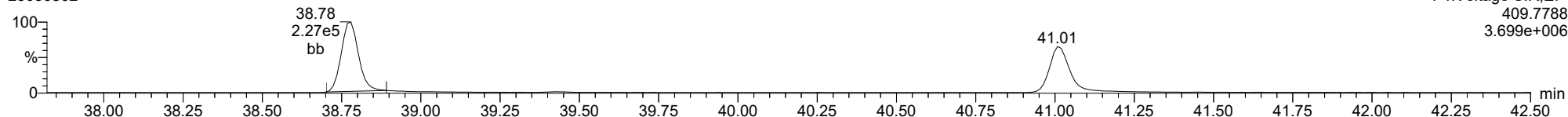
1234678-HpCDF

23030802



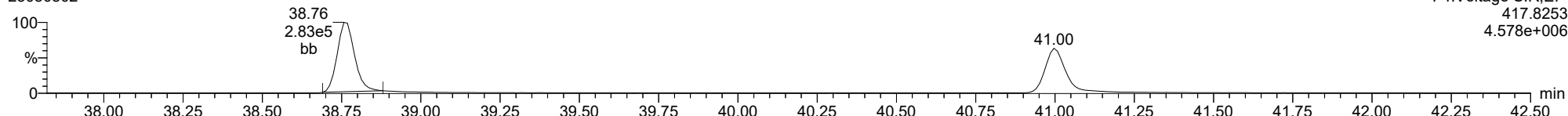
1234678-HpCDF

23030802



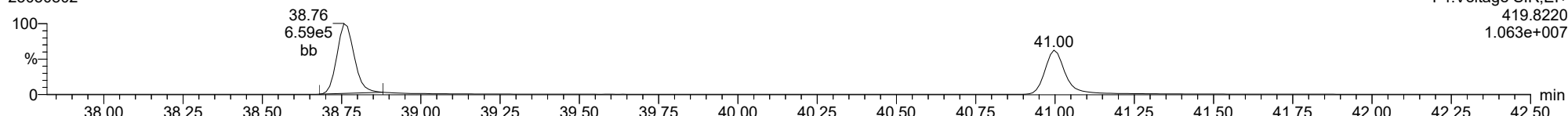
13C-1234678-HpCDF

23030802



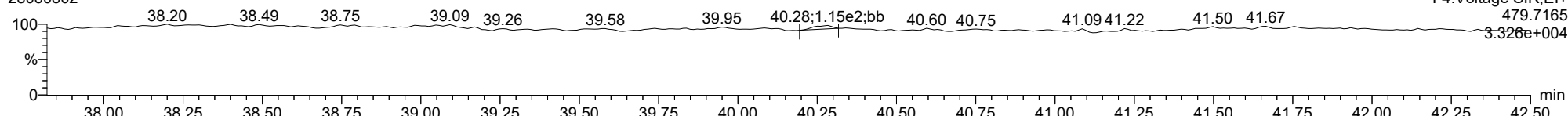
13C-1234678-HpCDF

23030802



FUNCTION4 NCDPE

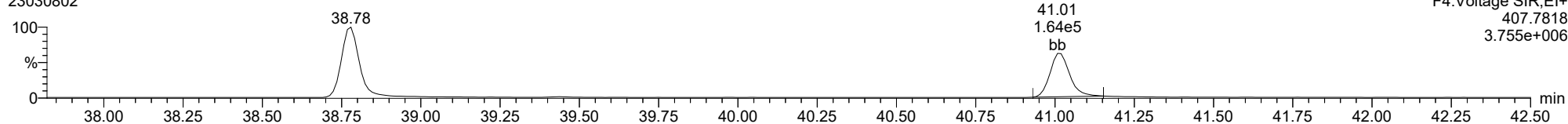
23030802



ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

**1234789-HpCDF**

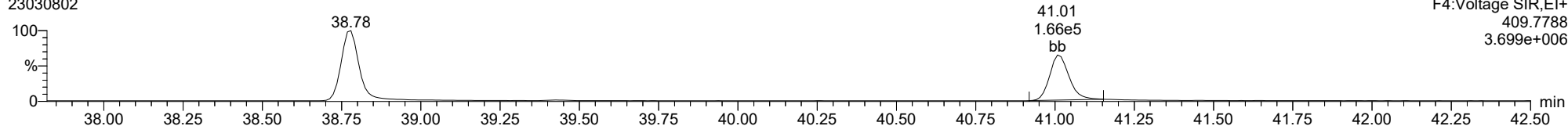
23030802



F4:Voltage SIR,EI+  
407.7818  
3.755e+006

**1234789-HpCDF**

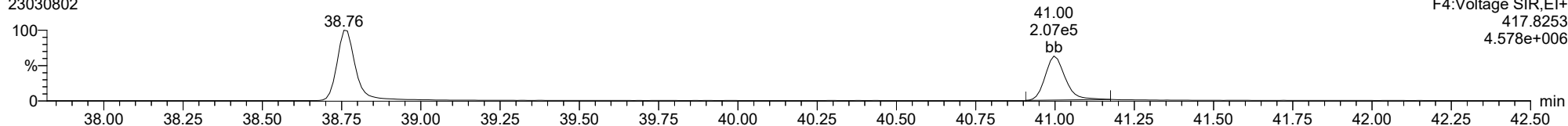
23030802



F4:Voltage SIR,EI+  
409.7788  
3.699e+006

**13C-1234789-HpCDF**

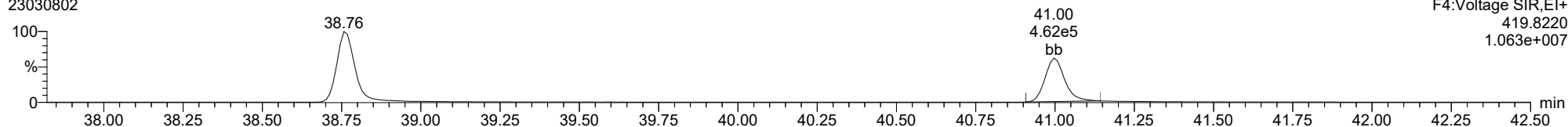
23030802



F4:Voltage SIR,EI+  
417.8253  
4.578e+006

**13C-1234789-HpCDF**

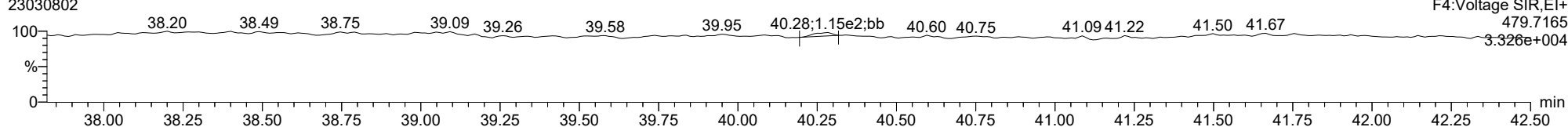
23030802



F4:Voltage SIR,EI+  
419.8220  
1.063e+007

**FUNCTION4 NCDPE**

23030802

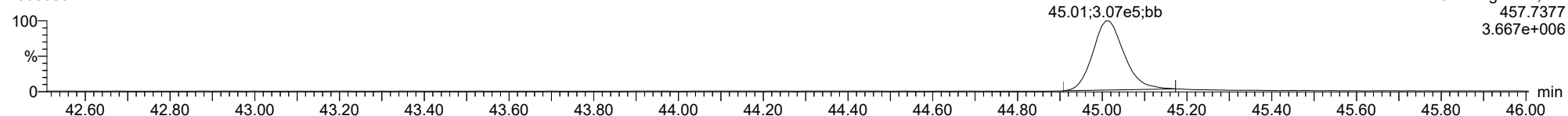


F4:Voltage SIR,EI+  
479.7165  
3.326e+004

ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

**OCDD**

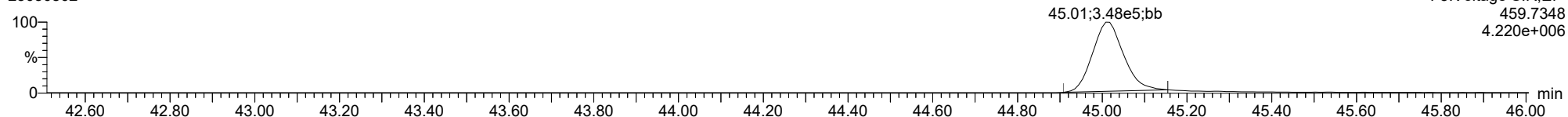
23030802



F5:Voltage SIR,EI+  
457.7377  
3.667e+006

**OCDD**

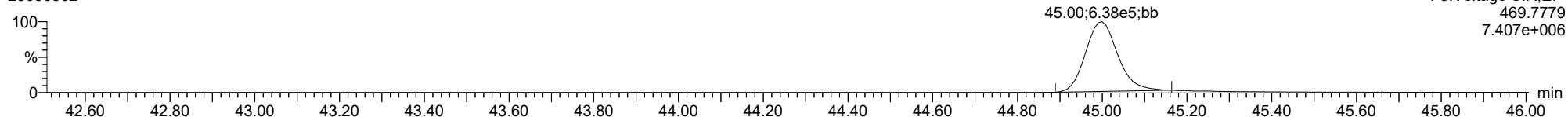
23030802



F5:Voltage SIR,EI+  
459.7348  
4.220e+006

**13C-OCDD**

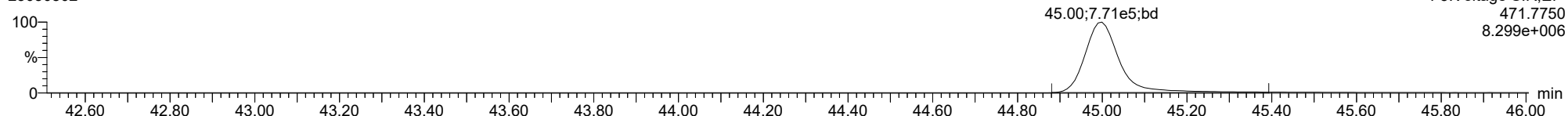
23030802



F5:Voltage SIR,EI+  
469.7779  
7.407e+006

**13C-OCDD**

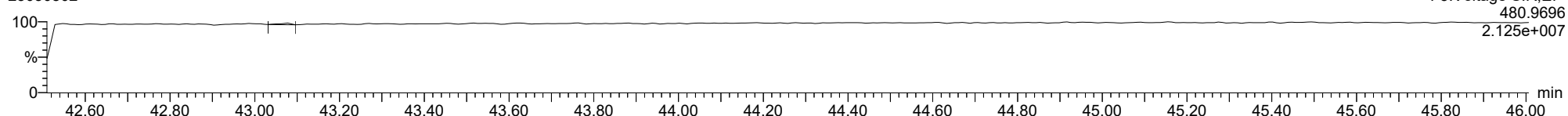
23030802



F5:Voltage SIR,EI+  
471.7750  
8.299e+006

**FUNCTION5 PFK**

23030802

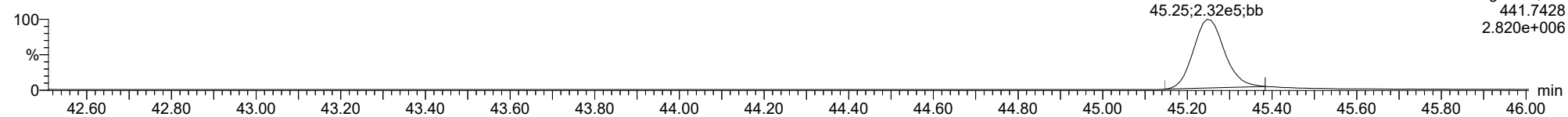


F5:Voltage SIR,EI+  
480.9696  
2.125e+007

ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

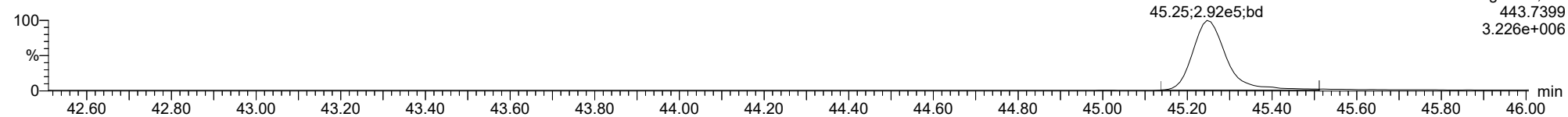
**OCDF**

23030802



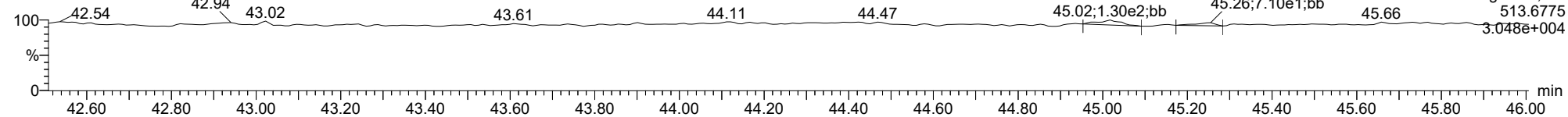
**OCDF**

23030802



**FUNCTION5 DCDPE**

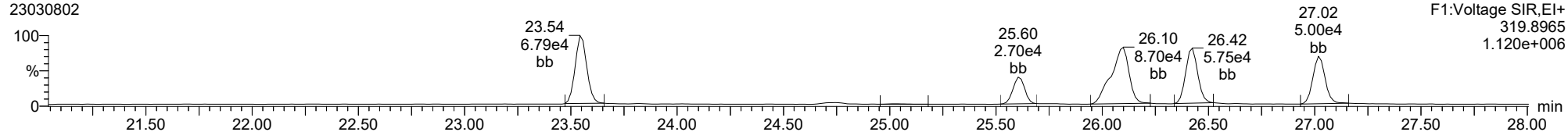
23030802



ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

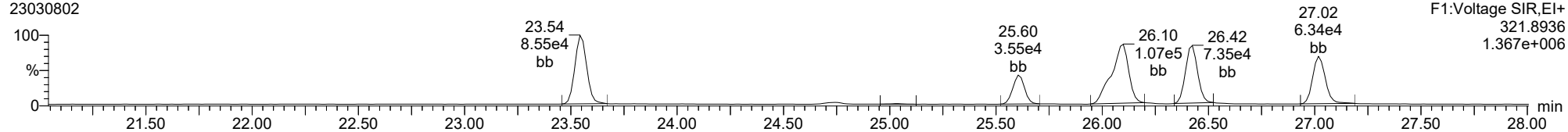
**Total-tetradoxins**

23030802



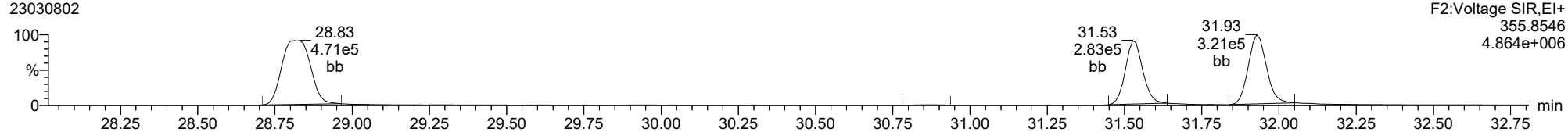
**Total-tetradoxins**

23030802



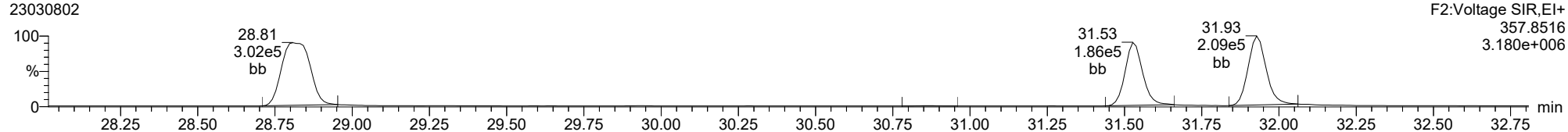
**Total-pentadoxins**

23030802



**Total-pentadoxins**

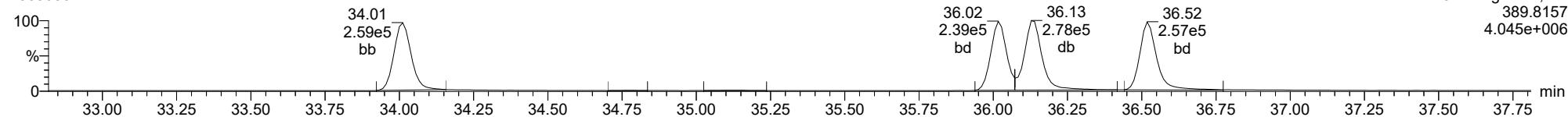
23030802



ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

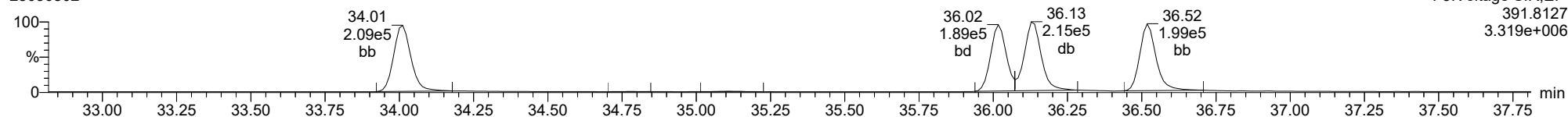
**Total-hexadioxins**

23030802



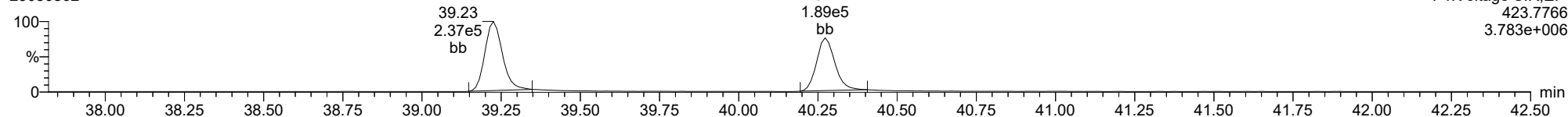
**Total-hexadioxins**

23030802



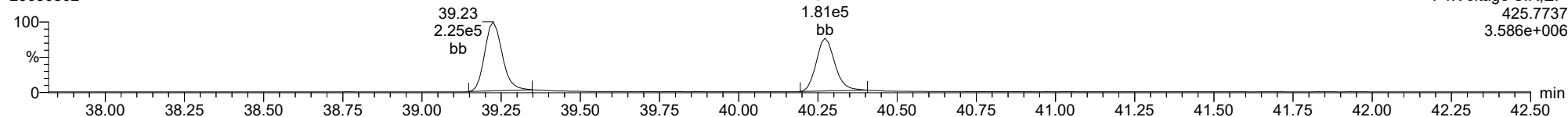
**Total-heptadioxins**

23030802



**Total-heptadioxins**

23030802

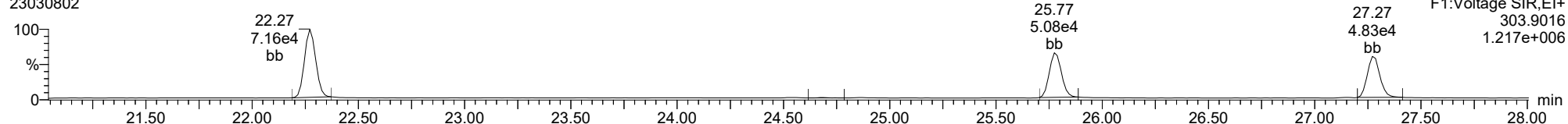




ID: CS3Y1, Name: 23030802, Date: 08-Mar-2023, Time: 10:35:46, Conditions: AUTOSPEC01, User: pk

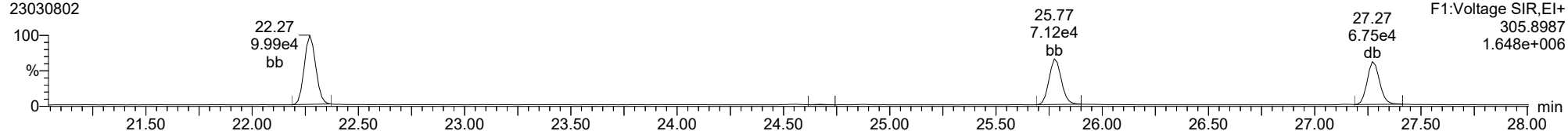
**Total-tetrafurans**

23030802



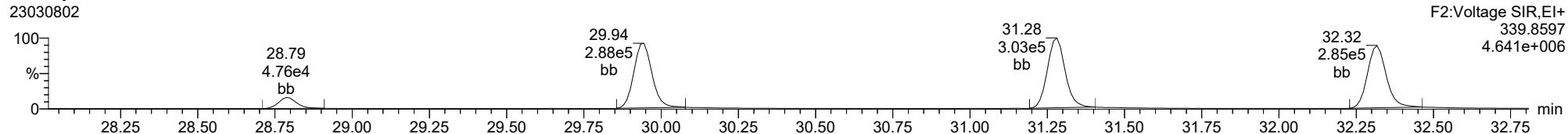
**Total-tetrafurans**

23030802



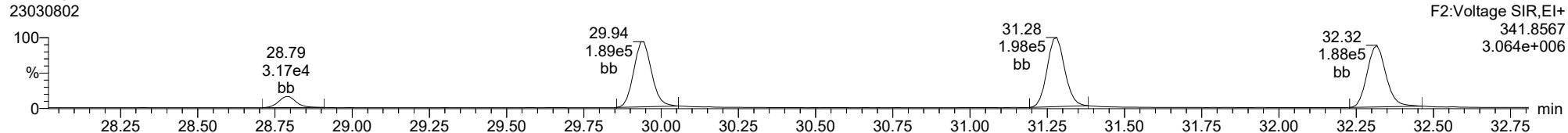
**Total-pentafurans**

23030802



**Total-pentafurans**

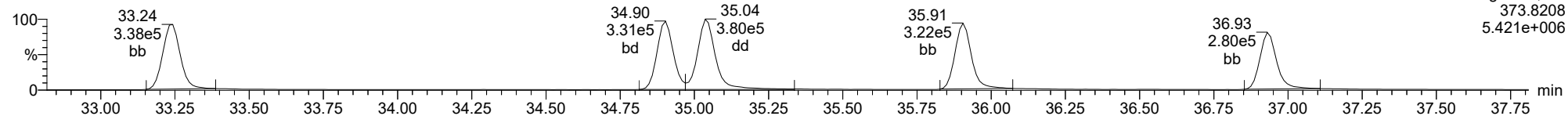
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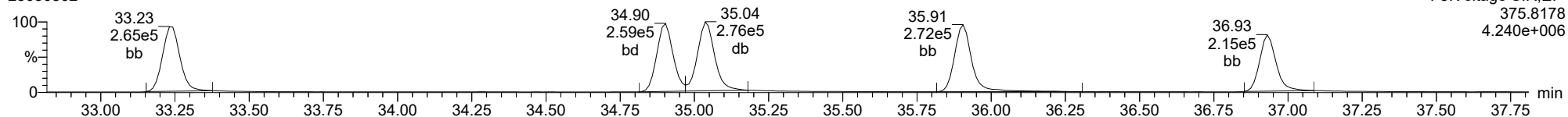
**Total-hexafurans**

23030802



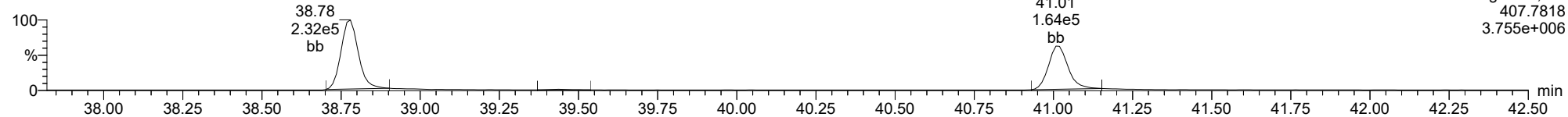
**Total-hexafurans**

23030802



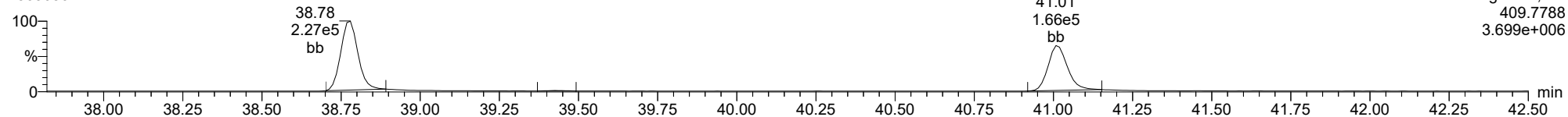
**Total-heptafurans**

23030802

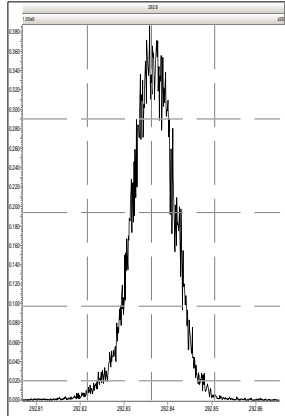


**Total-heptafurans**

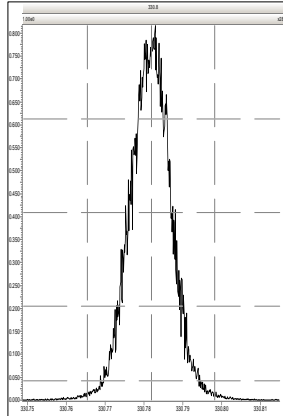
23030802



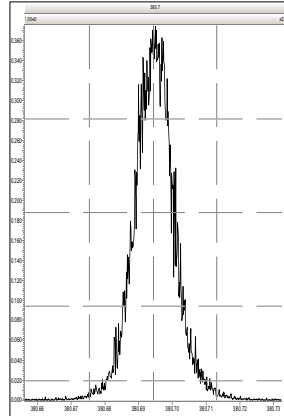
M 292.9824 R 13587



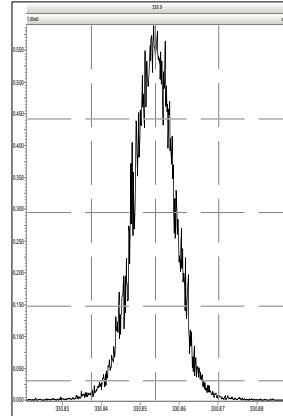
M 330.9792 R 13194



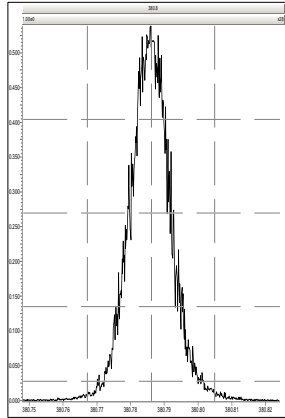
M 380.9760 R 13855



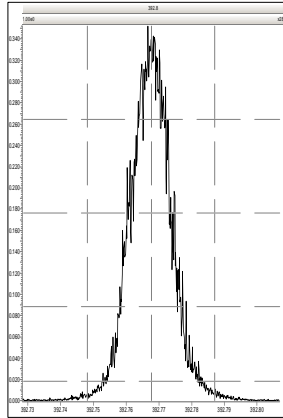
M 330.9792 R 13590



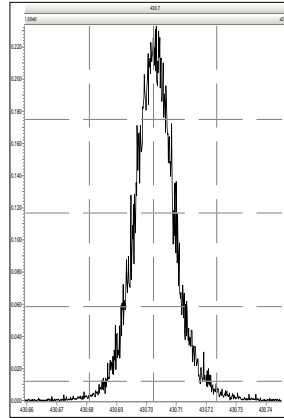
M 380.9760 R 13118



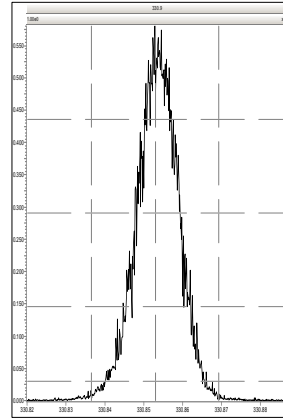
M 392.9760 R 13850



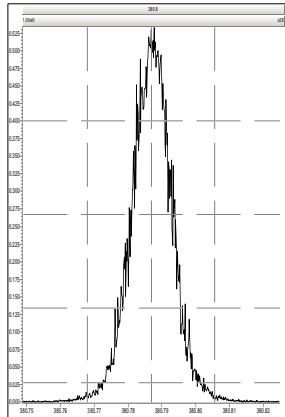
M 430.9728 R 13245



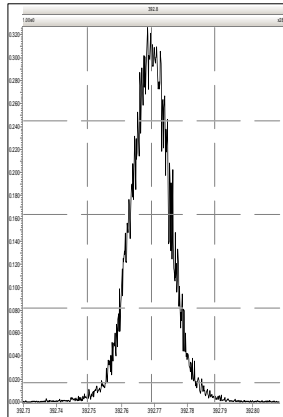
M 330.9792 R 13088



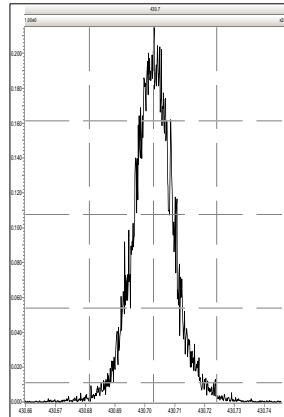
M 380.9760 R 13371



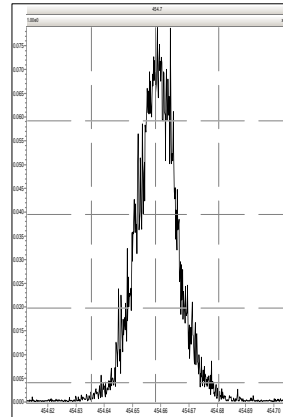
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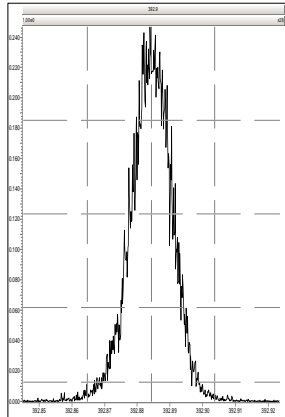
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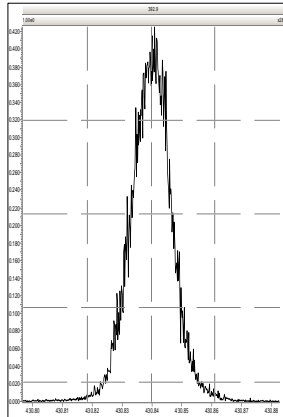
M 454.9728 R 14245



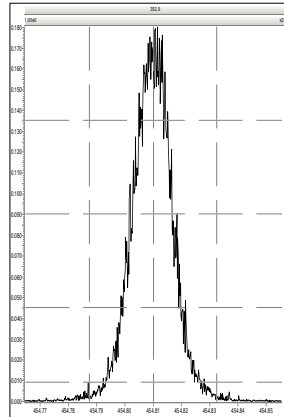
M 392.9760 R 14051



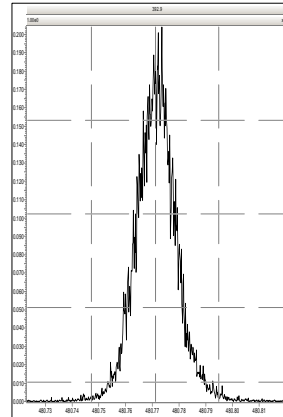
M 430.9728 R 13409



M 454.9728 R 14023

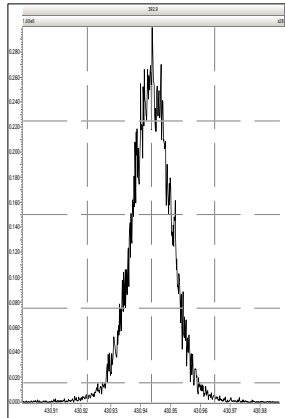


M 480.9696 R 13970

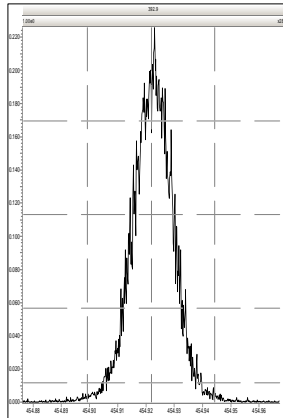


Printed: Wednesday, March 08, 2023 10:34:10 Pacific Standard Time

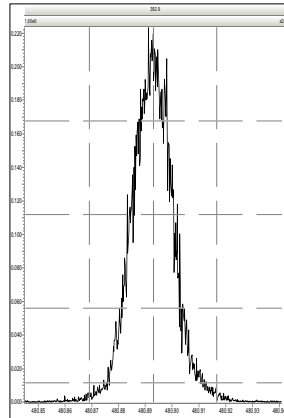
M 430.9728 R 13440



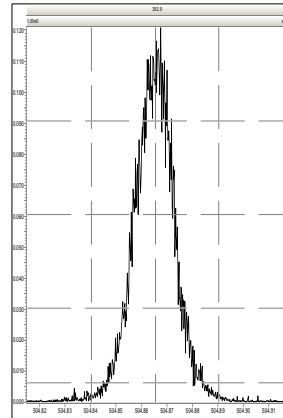
M 454.9728 R 13915



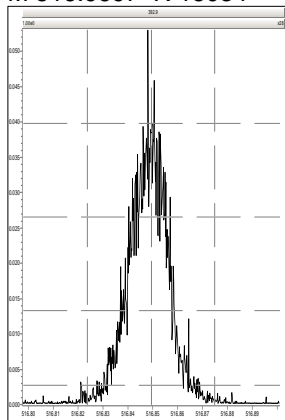
M 480.9696 R 13230



M 504.9696 R 13590



M 516.9697 R 15034

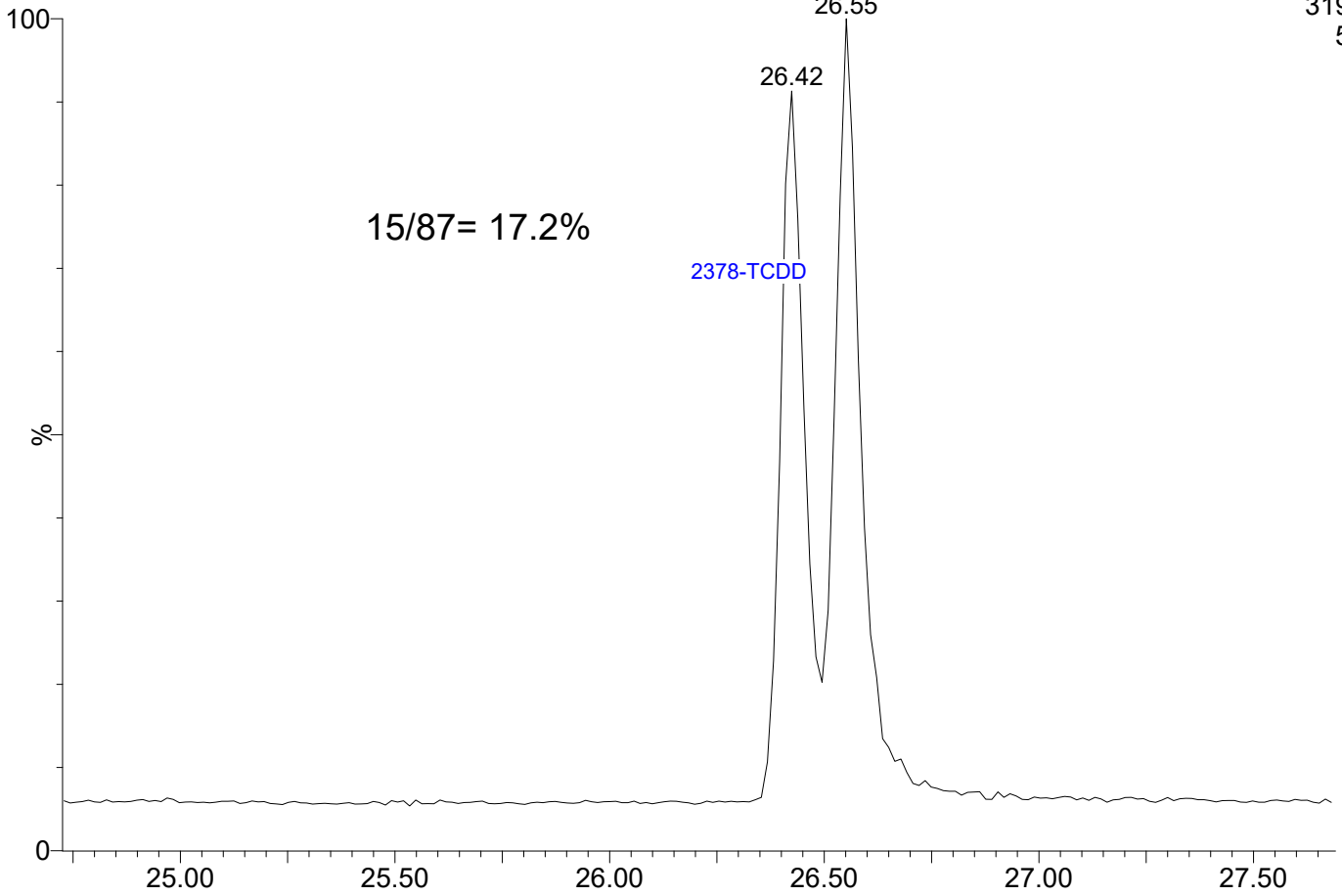


23030803

1: Voltage SIR 14 Channels EI+

319.8965

5.20e5

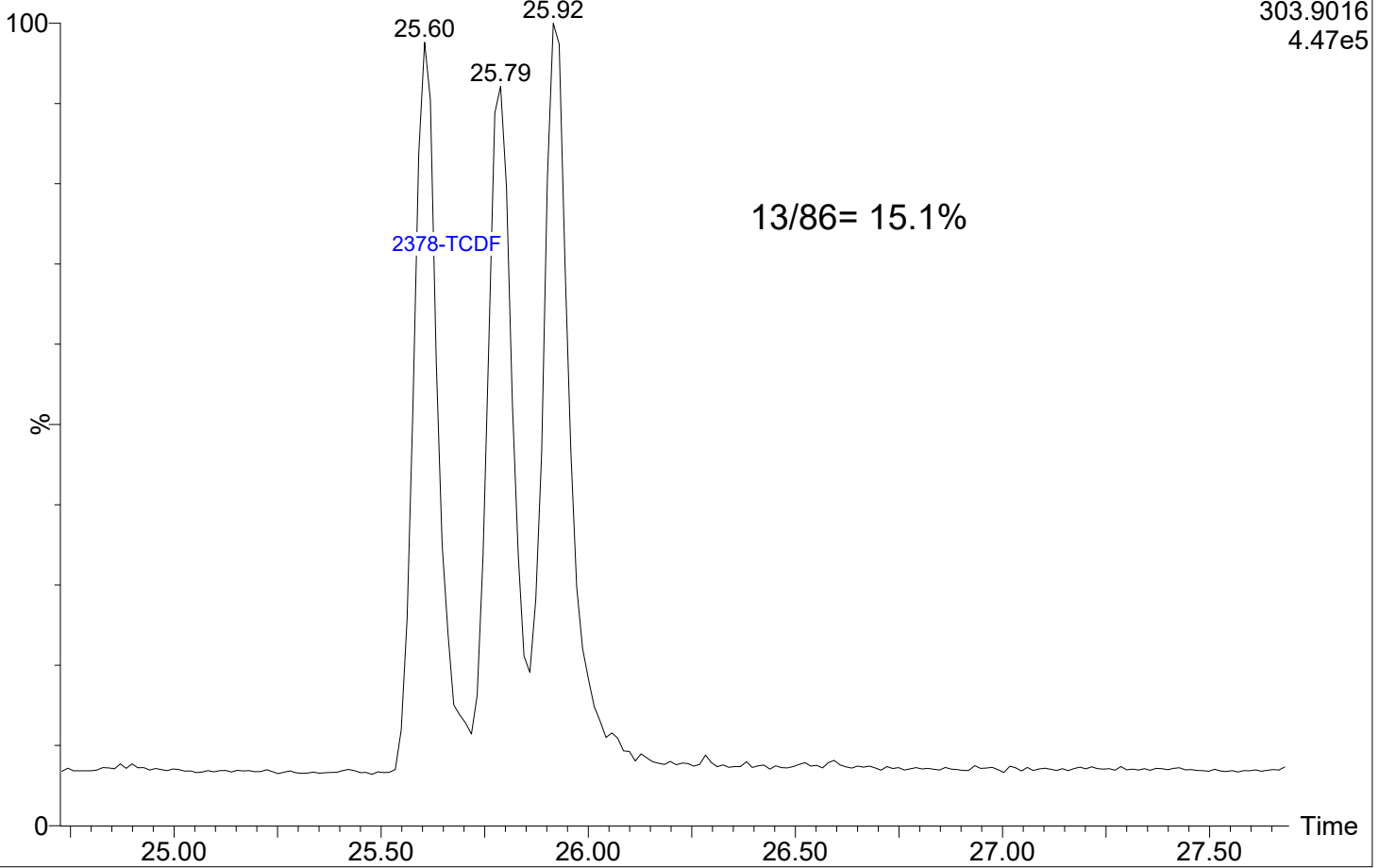


23030803

1: Voltage SIR 14 Channels EI+

303.9016

4.47e5





**CONTINUING CALIBRATION CHECK**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: FC00062

Lab File ID: 22032311

Calibration Date: 03/23/2022

Sequence: SKC0306

Injection Date: 03/23/22

Lab Sample ID: SKC0306-CCV1

Injection Time: 17:34

Sequence Name: CS3H2

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.2	0.9847005	1.0020020		1.8	+/-16
2,3,7,8-TCDD	A	10.000	9.53	1.1678960	1.1128040		-4.7	+/-22
1,2,3,7,8-PeCDF	A	50.000	50.3	0.9056077	0.9114834		0.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	48.5	1.0075470	0.9781671		-2.9	+/-18
1,2,3,7,8-PeCDD	A	50.000	51.0	1.1518210	1.1752140		2.0	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.7	1.0453780	1.0391680		-0.6	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	53.3	1.0194580	1.0875140		6.7	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	47.5	1.1009420	1.0448970		-5.1	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	50.9	0.9922439	1.0092520		1.7	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	51.7	0.9339489	0.9659074		3.4	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	49.4	0.9503637	0.9396596		-1.1	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	51.2	0.8735404	0.8938197		2.4	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	50.5	1.2432150	1.2556780		1.0	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	55.3	1.1920880	1.3196410		10.7	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	50.5	1.2681100	1.2820410		1.1	+/-14
OCDF	A	100.00	101	1.3028850	1.3101160		0.6	+/-37
OCDD	A	100.00	97.2	1.0892710	1.0585940		-2.8	+/-21
13C12-2,3,7,8-TCDF	A	100.00	101	1.7513890	1.7612010		0.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	104	1.0814050	1.1241821		4.0	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	100	1.4417600	1.4432897		0.1	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	99.4	1.3657630	1.3569953		-0.6	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	96.3	0.7763790	0.7479364		-3.7	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	106	1.0947840	1.1573961		5.7	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	105	1.1676720	1.2254406		4.9	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	108	1.0228740	1.1073766		8.3	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	105	0.8787479	0.9200826		4.7	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	99.9	0.9749220	0.9734916		-0.1	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	103	1.0665120	1.1004828		3.2	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	108	0.9254863	1.0014791		8.2	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	104	0.7148797	0.7442176		4.1	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	104	0.5816149	0.6050627		4.0	+/-28
13C12-OCDD	A	200.00	212	0.5085582	0.5402455		6.2	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.61	1.1201030	1.0767516		-3.9	

\* Values outside of QC limits

\* Values outside of QC limits

\* Values outside of QC limits



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: FC00062

Lab File ID: 22032310

Calibration Date: 03/23/2022

Sequence: SKC0306

Injection Date: 03/23/22

Lab Sample ID: SKC0306-SCV1

Injection Time: 16:46

Sequence Name: ICVCH

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.6	0.9847005	1.0420290		5.8	
2,3,7,8-TCDD	A	10.000	11.7	1.1678960	1.3643620		16.8	
1,2,3,7,8-PeCDF	A	50.000	53.1	0.9056077	0.9626373		6.3	
2,3,4,7,8-PeCDF	A	50.000	48.6	1.0075470	0.9798343		-2.8	
1,2,3,7,8-PeCDD	A	50.000	55.1	1.1518210	1.2683820		10.1	
1,2,3,4,7,8-HxCDF	A	50.000	53.4	1.0453780	1.1156160		6.7	
1,2,3,6,7,8-HxCDF	A	50.000	54.5	1.0194580	1.1110480		9.0	
2,3,4,6,7,8-HxCDF	A	50.000	53.7	1.1009420	1.1816960		7.3	
1,2,3,7,8,9-HxCDF	A	50.000	54.7	0.9922439	1.0852220		9.4	
1,2,3,4,7,8-HxCDD	A	50.000	57.2	0.9339489	1.0691520		14.5	
1,2,3,6,7,8-HxCDD	A	50.000	52.2	0.9503637	0.9921833		4.4	
1,2,3,7,8,9-HxCDD	A	50.000	52.6	0.8735404	7916.042		5.2	
1,2,3,4,6,7,8-HpCDF	A	50.000	56.3	1.2432150	1.4004930		12.7	
1,2,3,4,7,8,9-HpCDF	A	50.000	59.5	1.1920880	1.4190220		19.0	
1,2,3,4,6,7,8-HpCDD	A	50.000	55.0	1.2681100	1.3942330		9.9	
OCDF	A	100.00	108	1.3028850	1.4116330		8.3	
OCDD	A	100.00	111	1.0892710	1.2057030		10.7	
13C12-2,3,7,8-TCDF	A	100.00	102	1.7513890	1.7836445		1.8	
13C12-2,3,7,8-TCDD	A	100.00	82.0	1.0814050	0.8869403		-18.0	
13C12-1,2,3,7,8-PeCDF	A	100.00	104	1.4417600	1.5029657		4.2	
13C12-2,3,4,7,8-PeCDF	A	100.00	107	1.3657630	1.4640575		7.2	
13C12-1,2,3,7,8-PeCDD	A	100.00	97.8	0.7763790	0.7591495		-2.2	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	118	1.0947840	1.2937706		18.2	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	123	1.1676720	1.4406458		23.4	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	112	1.0228740	1.1471395		12.1	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	116	0.8787479	1.0151048		15.5	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	115	0.9749220	1.1193836		14.8	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	119	1.0665120	1.2678870		18.9	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	121	0.9254863	1.1162468		20.6	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	111	0.7148797	0.7959489		11.3	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	111	0.5816149	0.6454744		11.0	
13C12-OCDD	A	200.00	217	0.5085582	0.5515879		8.5	
37C14-2,3,7,8-TCDD	A	10.000	10.5	1.1201030	1.1799099		5.3	

\* Values outside of QC limits





**CONTINUING CALIBRATION CHECK**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: FC00062

Lab File ID: 22122812

Calibration Date: 03/23/2022

Sequence: SKL0339

Injection Date: 12/28/22

Lab Sample ID: SKL0339-CCV1

Injection Time: 19:49

Sequence Name: CS3P2

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.01	0.9847005	0.8868668		-9.9	+/-16
2,3,7,8-TCDD	A	10.000	9.52	1.1678960	1.1121430		-4.8	+/-22
1,2,3,7,8-PeCDF	A	50.000	48.0	0.9056077	0.8695691		-4.0	+/-18
2,3,4,7,8-PeCDF	A	50.000	46.4	1.0075470	0.9348884		-7.2	+/-18
1,2,3,7,8-PeCDD	A	50.000	49.8	1.1518210	1.1468730		-0.4	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.5	1.0453780	1.0340200		-1.1	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	53.7	1.0194580	1.0943550		7.3	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	49.1	1.1009420	1.0806290		-1.8	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	48.8	0.9922439	0.9692997		-2.3	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	52.9	0.9339489	0.9888266		5.9	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	50.4	0.9503637	0.9578154		0.8	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	53.6	0.8735404	0.9359722		7.2	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	45.8	1.2432150	1.1385680		-8.4	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	48.3	1.1920880	1.1518310		-3.4	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	48.1	1.2681100	1.2194770		-3.8	+/-14
OCDF	A	100.00	83.2	1.3028850	1.0841600		-16.8	+/-37
OCDD	A	100.00	99.6	1.0892710	1.0846430		-0.4	+/-21
13C12-2,3,7,8-TCDF	A	100.00	85.9	1.7513890	1.5036500		-14.1	+/-29
13C12-2,3,7,8-TCDD	A	100.00	102	1.0814050	1.1029919		2.0	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	87.3	1.4417600	1.2581878		-12.7	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	88.8	1.3657630	1.2126586		-11.2	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	93.7	0.7763790	0.7275490		-6.3	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	100	1.0947840	1.0967573		0.2	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	98.8	1.1676720	1.1533056		-1.2	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	102	1.0228740	1.0482877		2.5	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	112	0.8787479	0.9801478		11.5	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	96.9	0.9749220	0.9451093		-3.1	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	95.7	1.0665120	1.0210337		-4.3	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	95.2	0.9254863	0.8813809		-4.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	101	0.7148797	0.7210153		0.9	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	115	0.5816149	0.6695032		15.1	+/-28
13C12-OCDD	A	200.00	237	0.5085582	0.6029290		18.6	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.88	1.1201030	1.1061794		-1.2	

\* Values outside of QC limits

\* Values outside of QC limits

\* Values outside of QC limits

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30**  
**Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14**

**ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk**

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.018	1.001	3.815e4	5.094e4	0.985	0.749	0.770	815	1376	5.25e5	7.34e5	644.1	533.7	NO	bd	bd	9.006
12378-PeCDF	30.193	1.001	2.213e5	1.442e5	0.906	1.535	1.550	2075	2226	3.14e6	2.05e6	1514.4	919.0	NO	bb	bd	48.010
23478-PeCDF	31.541	1.001	2.317e5	1.470e5	1.008	1.576	1.550	2075	2226	3.31e6	2.14e6	1592.5	959.5	NO	bd	bb	46.394
123478-HxCDF	35.151	1.001	1.871e5	1.550e5	1.045	1.207	1.240	2623	2063	2.90e6	2.43e6	1105.9	1176.5	NO	bd	bd	49.457
234678-HxCDF	36.143	1.000	1.892e5	1.525e5	1.101	1.241	1.240	2623	2063	2.95e6	2.40e6	1123.2	1163.0	NO	bb	bb	49.077
123678-HxCDF	35.285	1.000	2.056e5	1.752e5	1.019	1.173	1.240	2623	2063	3.03e6	2.47e6	1156.8	1197.5	NO	db	dd	53.673
123789-HxCDF	37.168	1.000	1.589e5	1.277e5	0.992	1.244	1.240	2623	2063	2.34e6	1.89e6	891.5	915.1	NO	bb	bb	48.844
1234678-HpCDF	39.006	1.000	1.516e5	1.511e5	1.243	1.003	1.050	1906	1844	2.27e6	2.34e6	1189.0	1268.4	NO	bd	bd	45.791
1234789-HpCDF	41.279	1.000	1.251e5	1.254e5	1.192	0.998	1.050	1906	1844	1.60e6	1.65e6	841.0	896.8	NO	bd	bd	48.311
OCDF	45.595	1.006	1.874e5	2.070e5	1.303	0.905	0.890	1170	1353	1.91e6	2.05e6	1630.4	1517.5	NO	bd	bd	83.212
2378-TCDD	26.668	1.001	3.641e4	4.554e4	1.168	0.800	0.770	1037	961	5.39e5	6.81e5	520.1	708.7	NO	bb	bb	9.523
12378-PeCDD	31.786	1.000	1.683e5	1.104e5	1.152	1.524	1.550	2403	1714	2.56e6	1.65e6	1067.3	961.5	NO	bb	bb	49.785
123478-HxCDD	36.265	1.001	1.573e5	1.246e5	0.934	1.262	1.240	1921	1939	2.58e6	2.08e6	1343.2	1070.8	NO	bd	bd	52.938
123678-HxCDD	36.377	1.001	1.644e5	1.306e5	0.950	1.259	1.240	1921	1939	2.61e6	2.10e6	1360.3	1082.1	NO	db	db	50.392
123789-HxCDD	36.756	1.011	1.519e5	1.257e5	0.873	1.209	1.240	1921	1939	2.39e6	1.95e6	1245.7	1003.7	NO	bb	bb	53.600
1234678-HpCDD	40.521	1.000	1.290e5	1.173e5	1.268	1.099	1.050	1658	1695	1.73e6	1.66e6	1044.7	976.7	NO	bb	bb	48.082
OCDD	45.347	1.000	1.829e5	2.117e5	1.089	0.864	0.890	1715	1552	1.91e6	2.20e6	1111.1	1420.1	NO	bd	bd	99.575
13C-2378-TCDF	26.003	1.007	4.395e5	5.650e5	1.751	0.778	0.770	1837	1421	6.63e6	8.72e6	3608.0	6136.3	NO	bb	bb	85.855
13C-12378-PeCDF	30.171	1.168	5.107e5	3.298e5	1.442	1.548	1.550	3523	1898	7.54e6	4.82e6	2141.2	2541.5	NO	bb	bb	87.268
13C-23478-PeCDF	31.519	1.221	4.947e5	3.154e5	1.366	1.568	1.550	3523	1898	7.51e6	4.80e6	2130.8	2530.7	NO	bb	bb	88.790
13C-123478-HxCDF	35.129	0.956	2.217e5	4.400e5	1.095	0.504	0.510	2173	2473	3.40e6	6.70e6	1566.2	2710.7	NO	bd	bd	100.180
13C-123678-HxCDF	35.274	0.960	2.295e5	4.663e5	1.168	0.492	0.510	2173	2473	3.50e6	6.99e6	1612.1	2826.0	NO	db	db	98.770
13C-234678-HxCDF	36.132	0.983	2.118e5	4.207e5	1.023	0.503	0.510	2173	2473	3.37e6	6.66e6	1549.1	2691.4	NO	bb	bb	102.485
13C-123789-HxCDF	37.157	1.011	1.951e5	3.963e5	0.879	0.492	0.510	2173	2473	2.87e6	5.75e6	1321.4	2323.4	NO	bb	bb	111.539
13C-1234678-HpCDF	38.995	1.061	1.659e5	3.659e5	0.925	0.453	0.440	1895	2904	2.65e6	5.93e6	1398.7	2041.0	NO	bb	bb	95.234
13C-1234789-HpCDF	41.268	1.123	1.338e5	3.012e5	0.715	0.444	0.440	1895	2904	1.87e6	4.15e6	987.9	1430.2	NO	bb	bb	100.858
13C-1234-TCDD	25.821	0.000	2.876e5	3.805e5	1.000	0.756	0.770	2032	1294	4.32e6	5.69e6	2123.4	4395.2	NO	bb	bb	100.000
13C-2378-TCDD	26.653	1.032	3.195e5	4.174e5	1.081	0.765	0.770	2032	1294	4.67e6	6.06e6	2298.6	4684.0	NO	bb	bb	101.996
13C-12378-PeCDD	31.775	1.231	2.988e5	1.873e5	0.776	1.595	1.550	1403	897	4.40e6	2.72e6	3139.4	3031.4	NO	bb	bb	93.711
13C-123478-HxCDD	36.243	0.986	3.191e5	2.511e5	0.975	1.271	1.240	2514	1539	5.40e6	4.23e6	2147.3	2746.9	NO	bd	bd	96.942
13C-123678-HxCDD	36.354	0.989	3.446e5	2.714e5	1.067	1.270	1.240	2514	1539	5.24e6	4.14e6	2084.8	2692.5	NO	db	db	95.736
13C-1234678-HpCDD	40.510	1.102	2.066e5	1.974e5	0.582	1.047	1.050	1348	1342	3.10e6	2.93e6	2298.4	2180.5	NO	bb	bb	115.111
13C-OCDD	45.329	1.234	3.480e5	3.795e5	0.509	0.917	0.890	2525	1886	3.87e6	4.26e6	1534.7	2259.9	NO	bb	bb	237.113
13C-123789-HxCDD	36.744	0.000	3.328e5	2.706e5	1.000	1.230	1.240	2514	1539	5.12e6	4.15e6	2037.2	2699.1	NO	bb	bb	100.000
37CL-2378-TCDD	26.668	1.033	7.390e4		1.120			1937		1.08e6		558.6			bb		9.876

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld  
 Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time  
 Printed: Thursday, December 29, 2022 10:42:27 Pacific Standard Time

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.495	0.865	4.802e4	6.355e4	1.300	0.756	0.770	815	1376	7.29e5	9.53e5	894.3	692.5	NO	bb	bb	8.542
1289-TCDF	27.530	1.059	3.455e4	4.681e4	0.931	0.738	0.770	815	1376	4.79e5	6.56e5	588.2	476.8	NO	dd	dd	8.696
13468-PECDF	27.378	0.907	3.238e5	2.210e5	1.308	1.465	1.550	702	1008	4.86e6	3.30e6	6928.5	3275.2	NO	bb	bb	49.533
12389-PECDF	32.577	1.080	2.077e5	1.365e5	0.860	1.522	1.550	2075	2226	2.95e6	1.88e6	1422.3	843.3	NO	bd	bd	47.606
123468-HXCDF	33.491	0.953	2.000e5	1.596e5	1.156	1.253	1.240	2623	2063	2.99e6	2.40e6	1140.1	1162.9	NO	bb	bb	46.982
1368-TCDD	23.780	0.892	3.686e4	4.547e4	1.151	0.811	0.770	1037	961	5.60e5	7.03e5	540.5	732.1	NO	bb	bb	9.709
1289-TCDD	27.272	1.023	3.096e4	3.823e4	0.950	0.810	0.770	1037	961	4.31e5	5.28e5	416.0	549.7	NO	bb	bb	9.884
12479-PECDD	29.057	0.914	3.022e5	1.938e5	2.164	1.560	1.550	2403	1714	2.87e6	1.83e6	1193.8	1067.7	NO	bb	bb	47.152
12389-PECDD	32.188	1.013	1.936e5	1.326e5	1.371	1.461	1.550	2403	1714	2.78e6	1.83e6	1157.7	1068.9	NO	bb	bd	48.956
124679-HXCDD	34.260	0.945	1.662e5	1.365e5	1.153	1.218	1.240	1921	1939	2.63e6	2.16e6	1366.4	1112.2	NO	bb	bb	46.061
1234679-HPCDD	39.463	0.974	1.418e5	1.358e5	1.473	1.044	1.050	1658	1695	2.16e6	2.07e6	1303.4	1219.4	NO	bb	bb	46.629
Total-tetrafurans			1.211e5		1.072			815		1.74e6							26.319
Total-penta1			3.238e5					702		4.86e6							49.533
Total-pentafurans			6.978e5		0.924			2075		9.93e6							149.983
Total-hexafurans			9.407e5		1.063			2623		1.42e7							248.034
Total-heptafurans			2.767e5		1.218			1906		3.87e6							94.103
Total-Furans			2.547e6		1.090			815		3.65e7							651.183
Total-tetradoxins			1.761e5		1.090			1037		2.36e6							49.373
Total-pentadoxins			6.641e5		1.562			2403		8.21e6							145.893
Total-hexadoxins			6.410e5		0.978			1921		1.02e7							203.319
Total-heptadoxins			2.707e5		1.371			1658		3.89e6							94.711
Total-Dioxins			1.935e6		1.207			1037		2.66e7							592.871
Total-TEQ			4.482e6					1037		6.31e7							1244.055
FUNCTION1 PFK			6.239e5					307677		1.10e7							
FUNCTION2 PFK			2.493e5					337059		7.62e6							0.000
FUNCTION3 PFK			2.595e5					246888		7.26e6							0.000
FUNCTION4 PFK			3.054e4					185857		1.30e6							
FUNCTION5 PFK			3.255e4					117110		1.20e6							
FUNCTION1 HXCD...			4.846e2					509		7.44e3							0.000
FUNCTION1 HPCD...			5.496e2					898		9.06e3							0.000
FUNCTION2 HPCD...			1.032e3					1044		1.87e4							0.000
FUNCTION3 OCDPE			0.000e0					614		0.00e0							
FUNCTION4 NCDPE			1.024e2					643		1.42e3							0.000
FUNCTION5 DCDPE			0.000e0					545		0.00e0							

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:42:27 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.53	3.455e4	4.681e4	0.931	0.74	0.77	588.2	YES	NO	dd	dd	8.696
2	2378-TCDF	26.02	3.815e4	5.094e4	0.985	0.75	0.77	644.1	YES	NO	bd	bd	9.006
3	Total-tetrafurans	25.11	3.630e2	4.316e2	1.072	0.84	0.77	7.5	YES	NO	db	db	0.074
4	1368-TCDF	22.49	4.802e4	6.355e4	1.300	0.76	0.77	894.3	YES	NO	bb	bb	8.542

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.38	3.238e5	2.210e5	1.308	1.47	1.55	6928.5	YES	NO	bb	bb	49.533

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.58	2.077e5	1.365e5	0.860	1.52	1.55	1422.3	YES	NO	bd	bd	47.606
2	23478-PeCDF	31.54	2.317e5	1.470e5	1.008	1.58	1.55	1592.5	YES	NO	bd	bb	46.394
3	12378-PeCDF	30.19	2.213e5	1.442e5	0.906	1.54	1.55	1514.4	YES	NO	bb	bd	48.010
4	Total-pentafurans	29.03	3.705e4	2.378e4	0.924	1.56	1.55	256.8	YES	NO	bb	bb	7.973

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HxCDF	33.49	2.000e5	1.596e5	1.156	1.25	1.24	1140.1	YES	NO	bb	bb	46.982
2	123789-HxCDF	37.17	1.589e5	1.277e5	0.992	1.24	1.24	891.5	YES	NO	bb	bb	48.844
3	234678-HxCDF	36.14	1.892e5	1.525e5	1.101	1.24	1.24	1123.2	YES	NO	bb	bb	49.077
4	123678-HxCDF	35.28	2.056e5	1.752e5	1.019	1.17	1.24	1156.8	YES	NO	db	dd	53.673
5	123478-HxCDF	35.15	1.871e5	1.550e5	1.045	1.21	1.24	1105.9	YES	NO	bd	bd	49.457

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.28	1.251e5	1.254e5	1.192	1.00	1.05	841.0	YES	NO	bd	bd	48.311
2	1234678-HpCDF	39.01	1.516e5	1.511e5	1.243	1.00	1.05	1189.0	YES	NO	bd	bd	45.791

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:42:27 Pacific Standard Time

**ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.53	3.455e4	4.681e4	0.931	0.74	0.77	588.2	YES	NO	dd	dd	8.696
2	2378-TCDF	26.02	3.815e4	5.094e4	0.985	0.75	0.77	644.1	YES	NO	bd	bd	9.006
3	Total-tetrafurans	25.11	3.630e2	4.316e2	1.072	0.84	0.77	7.5	YES	NO	db	db	0.074
4	1368-TCDF	22.49	4.802e4	6.355e4	1.300	0.76	0.77	894.3	YES	NO	bb	bb	8.542
5	12389-PECDF	32.58	2.077e5	1.365e5	0.860	1.52	1.55	1422.3	YES	NO	bd	bd	47.606
6	23478-PeCDF	31.54	2.317e5	1.470e5	1.008	1.58	1.55	1592.5	YES	NO	bd	bb	46.394
7	12378-PeCDF	30.19	2.213e5	1.442e5	0.906	1.54	1.55	1514.4	YES	NO	bb	bd	48.010
8	Total-pentafurans	29.03	3.705e4	2.378e4	0.924	1.56	1.55	256.8	YES	NO	bb	bb	7.973
9	123468-HXCDF	33.49	2.000e5	1.596e5	1.156	1.25	1.24	1140.1	YES	NO	bb	bb	46.982
10	123789-HxCDF	37.17	1.589e5	1.277e5	0.992	1.24	1.24	891.5	YES	NO	bb	bb	48.844
11	234678-HxCDF	36.14	1.892e5	1.525e5	1.101	1.24	1.24	1123.2	YES	NO	bb	bb	49.077
12	123678-HxCDF	35.28	2.056e5	1.752e5	1.019	1.17	1.24	1156.8	YES	NO	db	dd	53.673
13	123478-HxCDF	35.15	1.871e5	1.550e5	1.045	1.21	1.24	1105.9	YES	NO	bd	bd	49.457
14	1234789-HpCDF	41.28	1.251e5	1.254e5	1.192	1.00	1.05	841.0	YES	NO	bd	bd	48.311
15	1234678-HpCDF	39.01	1.516e5	1.511e5	1.243	1.00	1.05	1189.0	YES	NO	bd	bd	45.791
16	OCDF	45.59	1.874e5	2.070e5	1.303	0.91	0.89	1630.4	YES	NO	bd	bd	83.212
17	13468-PECDF	27.38	3.238e5	2.210e5	1.308	1.47	1.55	6928.5	YES	NO	bb	bb	49.533

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.27	3.096e4	3.823e4	0.950	0.81	0.77	416.0	YES	NO	bb	bb	9.884
2	2378-TCDD	26.67	3.641e4	4.554e4	1.168	0.80	0.77	520.1	YES	NO	bb	bb	9.523
3	Total-tetradoxins	26.34	5.412e4	6.862e4	1.090	0.79	0.77	535.4	YES	NO	bd	bb	15.288
4	Total-tetradoxins	25.85	1.722e4	2.161e4	1.090	0.80	0.77	255.0	YES	NO	bb	bb	4.837
5	Total-tetradoxins	25.28	4.787e2	5.923e2	1.090	0.81	0.77	7.7	YES	NO	bb	bb	0.133
6	1368-TCDD	23.78	3.686e4	4.547e4	1.151	0.81	0.77	540.5	YES	NO	bb	bb	9.709

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.79	1.683e5	1.104e5	1.152	1.52	1.55	1067.3	YES	NO	bb	bb	49.785
2	12479-PECDD	29.06	3.022e5	1.938e5	2.164	1.56	1.55	1193.8	YES	NO	bb	bb	47.152
3	12389-PECDD	32.19	1.936e5	1.326e5	1.371	1.46	1.55	1157.7	YES	NO	bb	bd	48.956

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:42:27 Pacific Standard Time

**ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk****HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.38	1.644e5	1.306e5	0.950	1.26	1.24	1360.3	YES	NO	db	db	50.392
2	123478-HxCDD	36.27	1.573e5	1.246e5	0.934	1.26	1.24	1343.2	YES	NO	bd	bd	52.938
3	124679-HxCDD	34.26	1.662e5	1.365e5	1.153	1.22	1.24	1366.4	YES	NO	bb	bb	46.061
4	Total-hexadioxins	37.16	1.090e3	8.088e2	0.978	1.35	1.24	7.8	YES	NO	bb	bb	0.328
5	123789-HxCDD	36.76	1.519e5	1.257e5	0.873	1.21	1.24	1245.7	YES	NO	bb	bb	53.600

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.52	1.290e5	1.173e5	1.268	1.10	1.05	1044.7	YES	NO	bb	bb	48.082
2	1234679-HPCDD	39.46	1.418e5	1.358e5	1.473	1.04	1.05	1303.4	YES	NO	bb	bb	46.629

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.27	3.096e4	3.823e4	0.950	0.81	0.77	416.0	YES	NO	bb	bb	9.884
2	2378-TCDD	26.67	3.641e4	4.554e4	1.168	0.80	0.77	520.1	YES	NO	bb	bb	9.523
3	Total-tetradioxins	26.34	5.412e4	6.862e4	1.090	0.79	0.77	535.4	YES	NO	bd	bb	15.288
4	Total-tetradioxins	25.85	1.722e4	2.161e4	1.090	0.80	0.77	255.0	YES	NO	bb	bb	4.837
5	Total-tetradioxins	25.28	4.787e2	5.923e2	1.090	0.81	0.77	7.7	YES	NO	bb	bb	0.133
6	1368-TCDD	23.78	3.686e4	4.547e4	1.151	0.81	0.77	540.5	YES	NO	bb	bb	9.709
7	12378-PeCDD	31.79	1.683e5	1.104e5	1.152	1.52	1.55	1067.3	YES	NO	bb	bb	49.785
8	12479-PECDD	29.06	3.022e5	1.938e5	2.164	1.56	1.55	1193.8	YES	NO	bb	bb	47.152
9	12389-PECDD	32.19	1.936e5	1.326e5	1.371	1.46	1.55	1157.7	YES	NO	bb	bd	48.956
10	123678-HxCDD	36.38	1.644e5	1.306e5	0.950	1.26	1.24	1360.3	YES	NO	db	db	50.392
11	123478-HxCDD	36.27	1.573e5	1.246e5	0.934	1.26	1.24	1343.2	YES	NO	bd	bd	52.938
12	124679-HxCDD	34.26	1.662e5	1.365e5	1.153	1.22	1.24	1366.4	YES	NO	bb	bb	46.061
13	Total-hexadioxins	37.16	1.090e3	8.088e2	0.978	1.35	1.24	7.8	YES	NO	bb	bb	0.328
14	123789-HxCDD	36.76	1.519e5	1.257e5	0.873	1.21	1.24	1245.7	YES	NO	bb	bb	53.600
15	1234678-HpCDD	40.52	1.290e5	1.173e5	1.268	1.10	1.05	1044.7	YES	NO	bb	bb	48.082
16	1234679-HPCDD	39.46	1.418e5	1.358e5	1.473	1.04	1.05	1303.4	YES	NO	bb	bb	46.629
17	OCDD	45.35	1.829e5	2.117e5	1.089	0.86	0.89	1111.1	YES	NO	bd	bd	99.575

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:42:27 Pacific Standard Time

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.53	3.455e4	4.681e4	0.931	0.74	0.77	588.2	YES	NO	dd	dd	8.696
2	2378-TCDF	26.02	3.815e4	5.094e4	0.985	0.75	0.77	644.1	YES	NO	bd	bd	9.006
3	Total-tetrafurans	25.11	3.630e2	4.316e2	1.072	0.84	0.77	7.5	YES	NO	db	db	0.074
4	1368-TCDF	22.49	4.802e4	6.355e4	1.300	0.76	0.77	894.3	YES	NO	bb	bb	8.542
5	12389-PECDF	32.58	2.077e5	1.365e5	0.860	1.52	1.55	1422.3	YES	NO	bd	bd	47.606
6	23478-PeCDF	31.54	2.317e5	1.470e5	1.008	1.58	1.55	1592.5	YES	NO	bd	bb	46.394
7	12378-PeCDF	30.19	2.213e5	1.442e5	0.906	1.54	1.55	1514.4	YES	NO	bb	bd	48.010
8	Total-pentafurans	29.03	3.705e4	2.378e4	0.924	1.56	1.55	256.8	YES	NO	bb	bb	7.973
9	123468-HXCDF	33.49	2.000e5	1.596e5	1.156	1.25	1.24	1140.1	YES	NO	bb	bb	46.982
10	123789-HxCDF	37.17	1.589e5	1.277e5	0.992	1.24	1.24	891.5	YES	NO	bb	bb	48.844
11	234678-HxCDF	36.14	1.892e5	1.525e5	1.101	1.24	1.24	1123.2	YES	NO	bb	bb	49.077
12	123678-HxCDF	35.28	2.056e5	1.752e5	1.019	1.17	1.24	1156.8	YES	NO	db	dd	53.673
13	123478-HxCDF	35.15	1.871e5	1.550e5	1.045	1.21	1.24	1105.9	YES	NO	bd	bd	49.457
14	1234789-HpCDF	41.28	1.251e5	1.254e5	1.192	1.00	1.05	841.0	YES	NO	bd	bd	48.311
15	1234678-HpCDF	39.01	1.516e5	1.511e5	1.243	1.00	1.05	1189.0	YES	NO	bd	bd	45.791
16	OCDF	45.59	1.874e5	2.070e5	1.303	0.91	0.89	1630.4	YES	NO	bd	bd	83.212
17	13468-PECDF	27.38	3.238e5	2.210e5	1.308	1.47	1.55	6928.5	YES	NO	bb	bb	49.533
18	1289-TCDD	27.27	3.096e4	3.823e4	0.950	0.81	0.77	416.0	YES	NO	bb	bb	9.884
19	2378-TCDD	26.67	3.641e4	4.554e4	1.168	0.80	0.77	520.1	YES	NO	bb	bb	9.523
20	Total-tetradioxins	26.34	5.412e4	6.862e4	1.090	0.79	0.77	535.4	YES	NO	bd	bb	15.288
21	Total-tetradioxins	25.85	1.722e4	2.161e4	1.090	0.80	0.77	255.0	YES	NO	bb	bb	4.837
22	Total-tetradioxins	25.28	4.787e2	5.923e2	1.090	0.81	0.77	7.7	YES	NO	bb	bb	0.133
23	1368-TCDD	23.78	3.686e4	4.547e4	1.151	0.81	0.77	540.5	YES	NO	bb	bb	9.709
24	12378-PeCDD	31.79	1.683e5	1.104e5	1.152	1.52	1.55	1067.3	YES	NO	bb	bb	49.785
25	12479-PECDD	29.06	3.022e5	1.938e5	2.164	1.56	1.55	1193.8	YES	NO	bb	bb	47.152
26	12389-PECDD	32.19	1.936e5	1.326e5	1.371	1.46	1.55	1157.7	YES	NO	bb	bd	48.956
27	123678-HxCDD	36.38	1.644e5	1.306e5	0.950	1.26	1.24	1360.3	YES	NO	db	db	50.392
28	123478-HxCDD	36.27	1.573e5	1.246e5	0.934	1.26	1.24	1343.2	YES	NO	bd	bd	52.938
29	124679-HXCDD	34.26	1.662e5	1.365e5	1.153	1.22	1.24	1366.4	YES	NO	bb	bb	46.061
30	Total-hexadioxins	37.16	1.090e3	8.088e2	0.978	1.35	1.24	7.8	YES	NO	bb	bb	0.328
31	123789-HxCDD	36.76	1.519e5	1.257e5	0.873	1.21	1.24	1245.7	YES	NO	bb	bb	53.600
32	1234678-HpCDD	40.52	1.290e5	1.173e5	1.268	1.10	1.05	1044.7	YES	NO	bb	bb	48.082
33	1234679-HPCDD	39.46	1.418e5	1.358e5	1.473	1.04	1.05	1303.4	YES	NO	bb	bb	46.629
34	OCDD	45.35	1.829e5	2.117e5	1.089	0.86	0.89	1111.1	YES	NO	bd	bd	99.575



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

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**ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.22	1.561e4					1.4	NO		bb		
2	FUNCTION1 PFK	22.87	5.447e3					0.7	NO		bb		
3	FUNCTION1 PFK	22.62	2.306e4					1.4	NO		bb		
4	FUNCTION1 PFK	22.43	3.789e4					1.9	NO		bb		
5	FUNCTION1 PFK	22.00	1.257e4					1.3	NO		bb		
6	FUNCTION1 PFK	21.63	2.393e3					0.5	NO		bb		
7	FUNCTION1 PFK	21.57	5.591e3					0.7	NO		db		
8	FUNCTION1 PFK	21.45	1.345e4					1.0	NO		bd		
9	FUNCTION1 PFK	21.22	1.492e4					1.2	NO		bb		
10	FUNCTION1 PFK	21.13	1.494e4					1.4	NO		bb		
11	FUNCTION1 PFK	27.97	2.814e3					0.6	NO		bb		
12	FUNCTION1 PFK	27.61	5.385e3					0.7	NO		bb		
13	FUNCTION1 PFK	26.88	2.685e4					1.8	NO		bb		
14	FUNCTION1 PFK	26.79	1.203e4					1.1	NO		bb		
15	FUNCTION1 PFK	26.32	5.633e4					2.0	NO		bb		
16	FUNCTION1 PFK	26.02	1.125e4					1.1	NO		bb		
17	FUNCTION1 PFK	25.25	5.310e4					2.4	NO		db		
18	FUNCTION1 PFK	25.10	7.034e4					2.4	NO		dd		
19	FUNCTION1 PFK	24.99	7.628e4					3.0	NO		bd		
20	FUNCTION1 PFK	24.88	9.332e3					0.5	NO		bb		
21	FUNCTION1 PFK	24.82	4.935e3					1.1	NO		bb		
22	FUNCTION1 PFK	24.76	1.791e3					0.4	NO		bb		
23	FUNCTION1 PFK	24.32	5.698e4					1.7	NO		bb		
24	FUNCTION1 PFK	24.19	2.646e4					1.9	NO		db		
25	FUNCTION1 PFK	24.11	4.345e4					2.3	NO		bd		
26	FUNCTION1 PFK	23.46	2.071e4					1.2	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:42:27 Pacific Standard Time

**ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk****PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.79	1.039e4					1.1	NO		bb		0.000
2	FUNCTION2 PFK	29.64	1.374e4					1.1	NO		db		0.000
3	FUNCTION2 PFK	29.57	1.053e4					0.8	NO		bd		0.000
4	FUNCTION2 PFK	29.44	1.201e4					0.9	NO		bb		0.000
5	FUNCTION2 PFK	29.34	8.792e3					1.1	NO		bb		0.000
6	FUNCTION2 PFK	29.17	6.985e3					0.9	NO		bb		0.000
7	FUNCTION2 PFK	28.91	2.956e4					1.3	NO		bb		0.000
8	FUNCTION2 PFK	28.80	6.273e3					0.8	NO		db		0.000
9	FUNCTION2 PFK	28.77	7.673e3					0.8	NO		bd		0.000
10	FUNCTION2 PFK	28.71	5.767e3					0.7	NO		db		0.000
11	FUNCTION2 PFK	28.66	9.804e3					0.9	NO		bd		0.000
12	FUNCTION2 PFK	28.48	7.440e3					0.4	NO		bb		0.000
13	FUNCTION2 PFK	28.40	1.265e4					0.8	NO		bb		0.000
14	FUNCTION2 PFK	28.32	2.829e3					0.8	NO		bb		0.000
15	FUNCTION2 PFK	28.29	1.843e3					0.5	NO		bb		0.000
16	FUNCTION2 PFK	32.81	2.939e4					1.3	NO		db		0.000
17	FUNCTION2 PFK	32.71	9.996e3					0.8	NO		bd		0.000
18	FUNCTION2 PFK	32.57	8.124e3					0.8	NO		bb		0.000
19	FUNCTION2 PFK	32.09	5.469e3					0.6	NO		bb		0.000
20	FUNCTION2 PFK	32.04	3.692e3					0.6	NO		bb		0.000
21	FUNCTION2 PFK	31.62	2.716e3					0.4	NO		bb		0.000
22	FUNCTION2 PFK	31.56	7.056e3					0.9	NO		bb		0.000
23	FUNCTION2 PFK	31.35	1.021e3					0.3	NO		bb		0.000
24	FUNCTION2 PFK	31.06	1.423e4					1.0	NO		bb		0.000
25	FUNCTION2 PFK	30.91	3.072e3					0.4	NO		bb		0.000
26	FUNCTION2 PFK	30.64	2.544e3					0.4	NO		bb		0.000
27	FUNCTION2 PFK	30.25	2.358e3					0.5	NO		bb		0.000
28	FUNCTION2 PFK	30.18	2.443e3					0.4	NO		bb		0.000
29	FUNCTION2 PFK	30.09	5.302e3					0.6	NO		bb		0.000
30	FUNCTION2 PFK	30.04	1.422e3					0.4	NO		bb		0.000
31	FUNCTION2 PFK	29.93	4.204e3					0.7	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:42:27 Pacific Standard Time

**ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.24	4.740e3					0.8	NO		bb		0.000
2	FUNCTION3 PFK	35.07	1.086e4					1.2	NO		bb		0.000
3	FUNCTION3 PFK	34.92	3.829e3					0.7	NO		bb		0.000
4	FUNCTION3 PFK	34.73	5.898e3					1.0	NO		bb		0.000
5	FUNCTION3 PFK	34.67	3.557e3					0.6	NO		bb		0.000
6	FUNCTION3 PFK	34.44	8.379e3					1.0	NO		bb		0.000
7	FUNCTION3 PFK	34.33	6.847e3					1.0	NO		db		0.000
8	FUNCTION3 PFK	34.23	1.765e4					1.4	NO		dd		0.000
9	FUNCTION3 PFK	34.12	1.731e4					1.6	NO		dd		0.000
10	FUNCTION3 PFK	34.05	1.951e4					1.3	NO		bd		0.000
11	FUNCTION3 PFK	33.84	9.227e2					0.3	NO		bb		0.000
12	FUNCTION3 PFK	33.74	1.114e4					1.3	NO		bb		0.000
13	FUNCTION3 PFK	33.35	4.006e3					0.7	NO		bb		0.000
14	FUNCTION3 PFK	33.24	6.294e3					0.9	NO		bb		0.000
15	FUNCTION3 PFK	33.08	1.135e4					1.7	NO		bb		0.000
16	FUNCTION3 PFK	37.88	2.811e4					1.7	NO		bb		0.000
17	FUNCTION3 PFK	37.77	2.696e3					0.6	NO		bb		0.000
18	FUNCTION3 PFK	37.20	1.029e4					1.3	NO		bb		0.000
19	FUNCTION3 PFK	37.03	9.308e3					1.0	NO		bb		0.000
20	FUNCTION3 PFK	36.68	8.534e3					1.1	NO		bb		0.000
21	FUNCTION3 PFK	36.45	1.083e4					1.3	NO		db		0.000
22	FUNCTION3 PFK	36.40	2.125e4					1.2	NO		dd		0.000
23	FUNCTION3 PFK	36.28	4.533e3					0.8	NO		bd		0.000
24	FUNCTION3 PFK	35.99	3.465e3					0.7	NO		bb		0.000
25	FUNCTION3 PFK	35.84	1.296e3					0.5	NO		bb		0.000
26	FUNCTION3 PFK	35.80	3.225e3					0.7	NO		bb		0.000
27	FUNCTION3 PFK	35.67	1.303e4					1.3	NO		bb		0.000
28	FUNCTION3 PFK	35.62	9.020e3					1.1	NO		bb		0.000
29	FUNCTION3 PFK	35.49	1.638e3					0.6	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.17	4.114e3					1.4	NO		bb		
2	FUNCTION4 PFK	43.13	7.655e3					1.7	NO		bb		
3	FUNCTION4 PFK	41.92	1.106e4					2.1	NO		bb		
4	FUNCTION4 PFK	41.06	7.706e3					1.7	NO		bb		

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	46.28	1.100e4					3.2	YES		bb		
2	FUNCTION5 PFK	45.49	1.755e3					1.1	NO		db		
3	FUNCTION5 PFK	45.46	3.400e3					1.5	NO		bd		
4	FUNCTION5 PFK	45.14	8.139e3					2.2	NO		bb		
5	FUNCTION5 PFK	44.02	3.137e3					1.4	NO		bb		
6	FUNCTION5 PFK	43.50	5.124e3					0.8	NO		bb		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.15	1.018e2					2.8	NO		db		0.000
2	FUNCTION1 HXCD...	26.02	1.072e2					3.9	YES		bd		0.000
3	FUNCTION1 HXCD...	25.67	7.570e1					3.3	YES		bb		0.000
4	FUNCTION1 HXCD...	23.22	7.721e1					1.8	NO		bb		0.000
5	FUNCTION1 HXCD...	21.91	1.228e2					2.8	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.02	1.069e2					1.9	NO		bb		0.000
2	FUNCTION1 HPCD...	24.31	8.133e1					1.9	NO		bb		0.000
3	FUNCTION1 HPCD...	23.86	1.280e2					2.0	NO		bb		0.000
4	FUNCTION1 HPCD...	22.25	1.322e2					2.1	NO		bb		0.000
5	FUNCTION1 HPCD...	21.33	1.012e2					2.2	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.77	9.007e1					2.2	NO		bb		0.000
2	FUNCTION2 HPCD...	32.63	7.767e1					2.1	NO		bb		0.000
3	FUNCTION2 HPCD...	31.41	3.765e2					4.5	YES		db		0.000
4	FUNCTION2 HPCD...	31.30	1.288e2					1.7	NO		bd		0.000
5	FUNCTION2 HPCD...	30.68	7.049e1					1.6	NO		bb		0.000
6	FUNCTION2 HPCD...	30.19	1.017e2					1.5	NO		bb		0.000
7	FUNCTION2 HPCD...	29.79	1.000e2					1.9	NO		bb		0.000
8	FUNCTION2 HPCD...	28.48	8.664e1					2.4	NO		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:42:27 Pacific Standard Time

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.52	1.024e2					2.2	NO		bb		0.000

**ETHERS6**

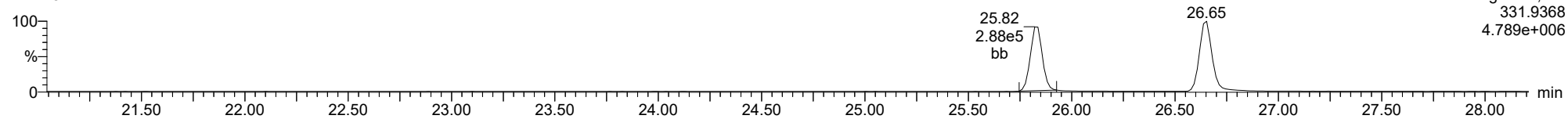
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1													

Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

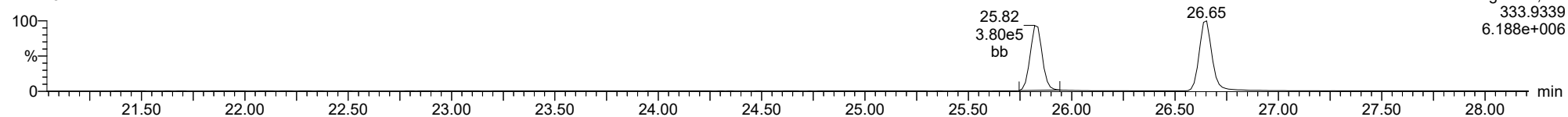
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22122812



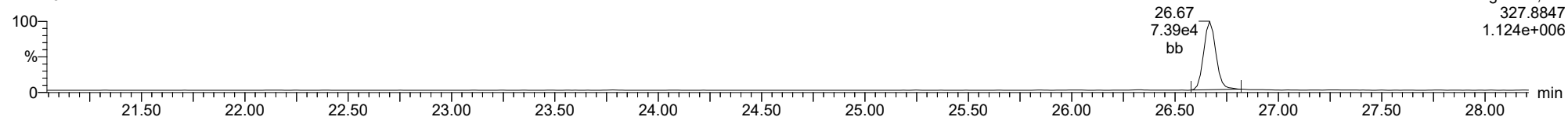
**13C-1234-TCDD**

22122812



**37CL-2378-TCDD**

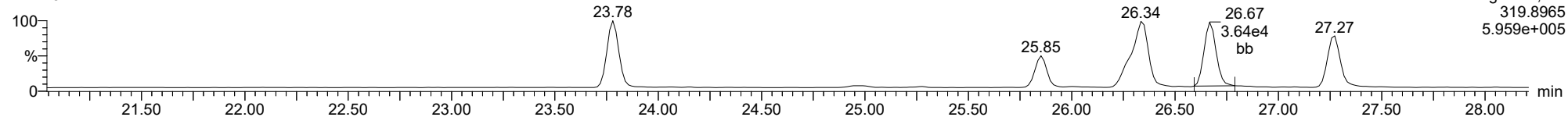
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ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

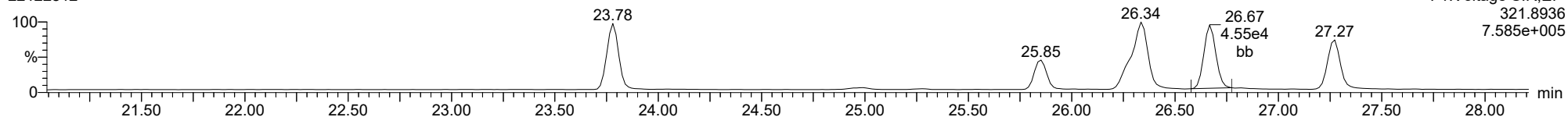
**2378-TCDD**

22122812



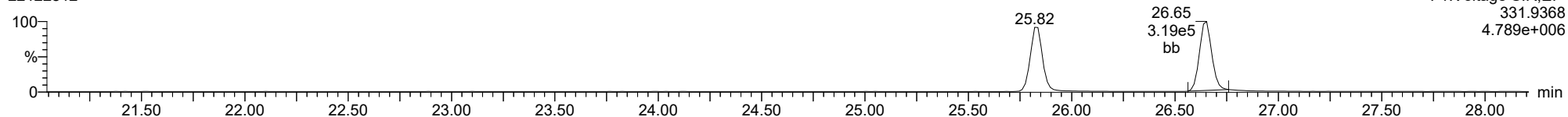
**2378-TCDD**

22122812



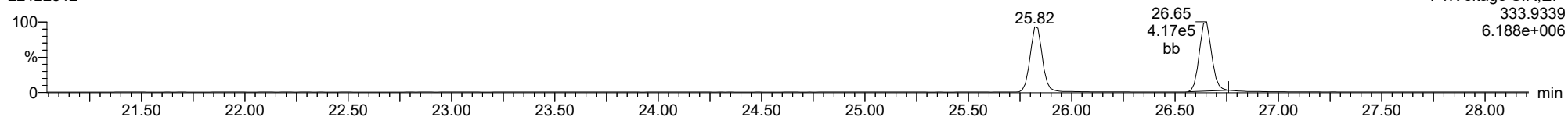
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22122812



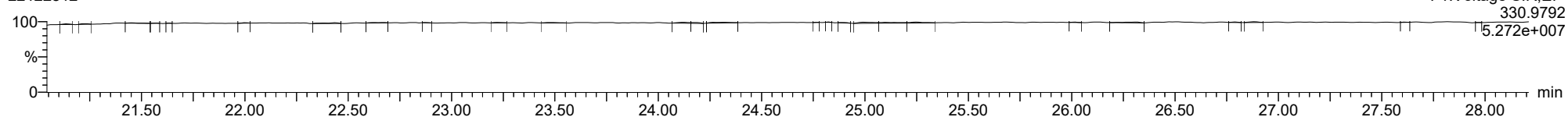
**13C-2378-TCDD**

22122812



**FUNCTION1 PFK**

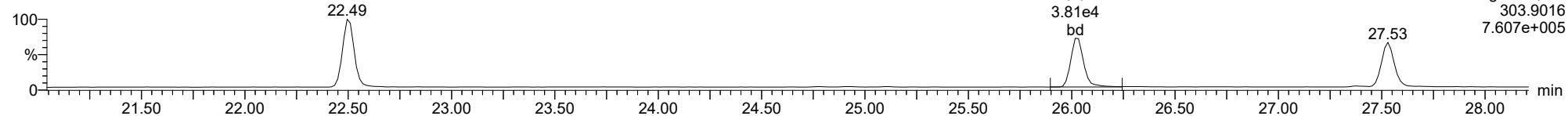
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ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

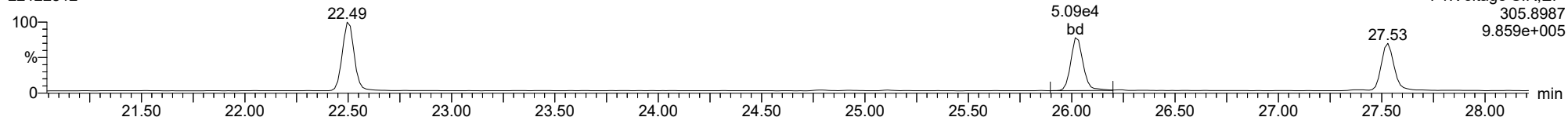
**2378-TCDF**

22122812



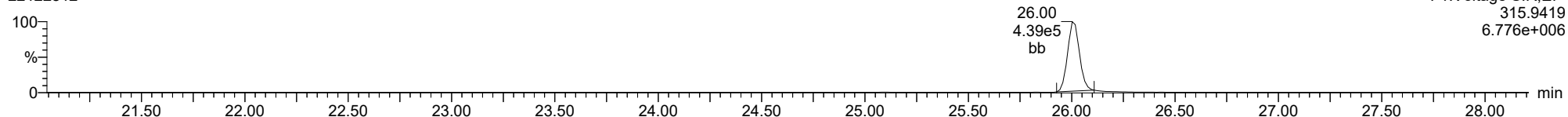
**2378-TCDF**

22122812



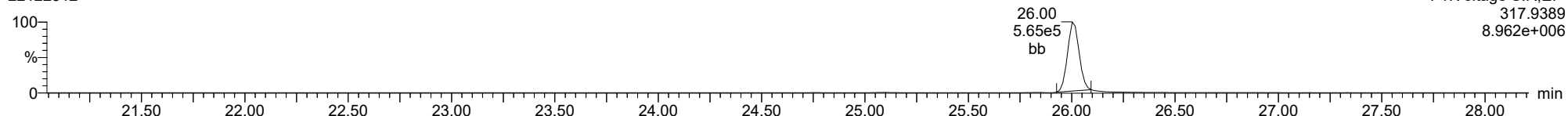
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22122812



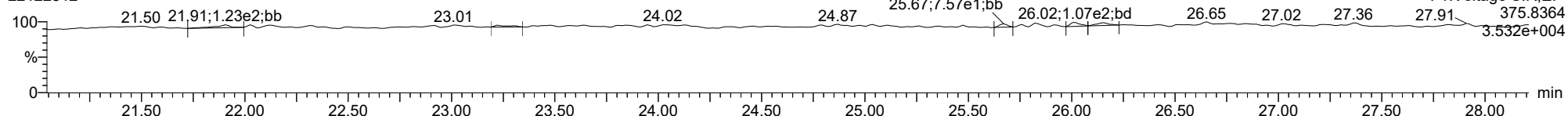
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22122812



**FUNCTION1 HXCDPE**

22122812

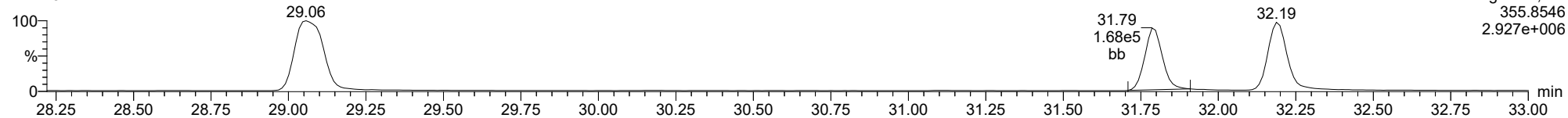




ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

**12378-PeCDD**

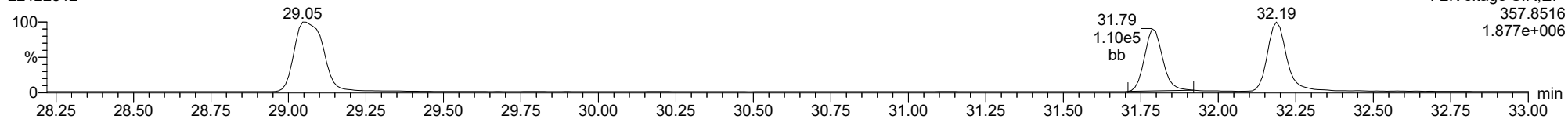
22122812



F2:Voltage SIR,EI+  
355.8546  
2.927e+006

**12378-PeCDD**

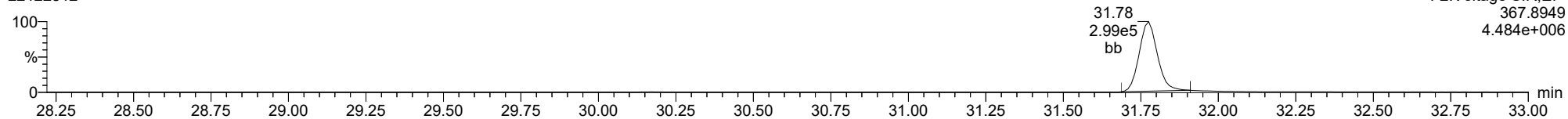
22122812



F2:Voltage SIR,EI+  
357.8516  
1.877e+006

**13C-12378-PeCDD**

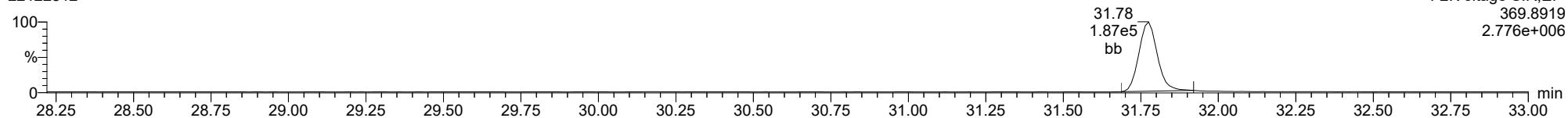
22122812



F2:Voltage SIR,EI+  
367.8949  
4.484e+006

**13C-12378-PeCDD**

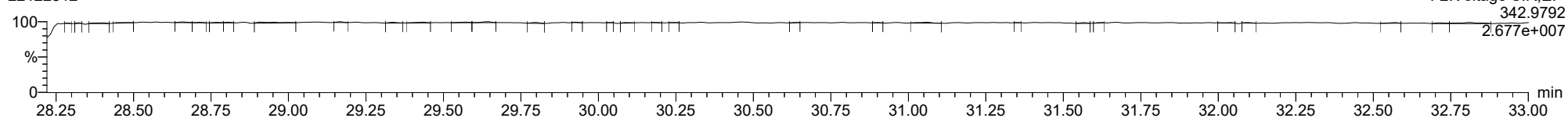
22122812



F2:Voltage SIR,EI+  
369.8919  
2.776e+006

**FUNCTION2 PFK**

22122812

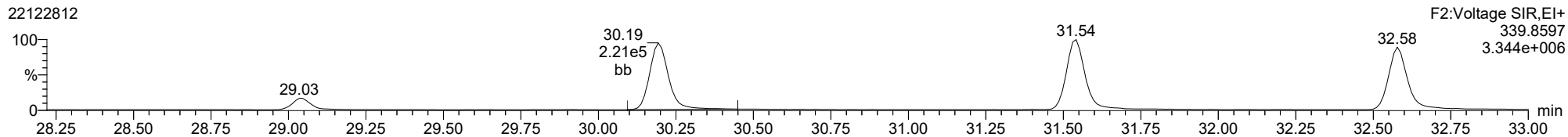


F2:Voltage SIR,EI+  
342.9792  
2.677e+007

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

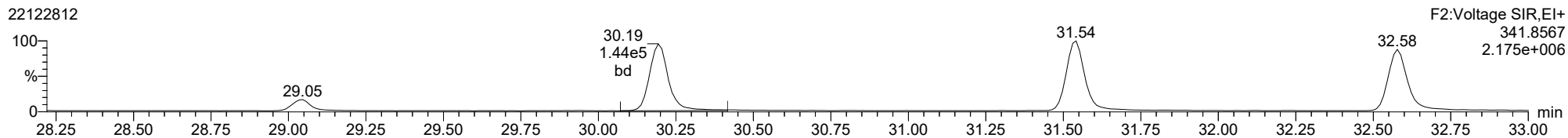
**12378-PeCDF**

22122812



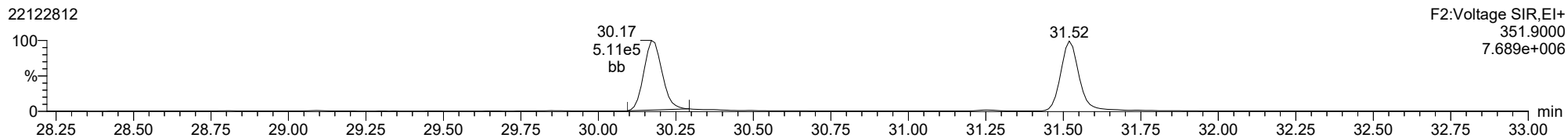
**12378-PeCDF**

22122812



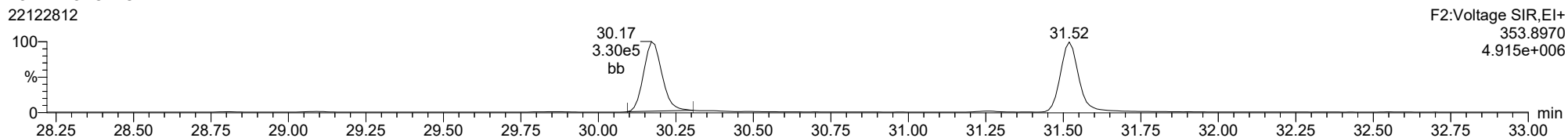
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22122812



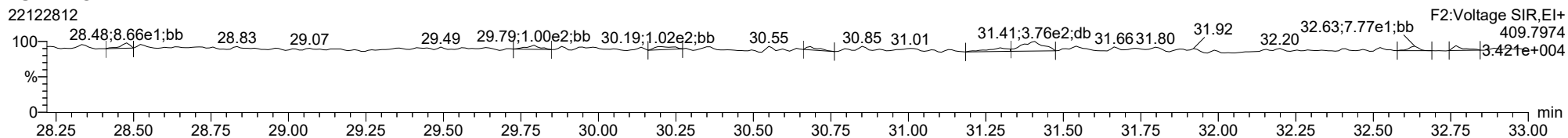
**13C-12378-PeCDF**

22122812



**FUNCTION2 HPCDPE**

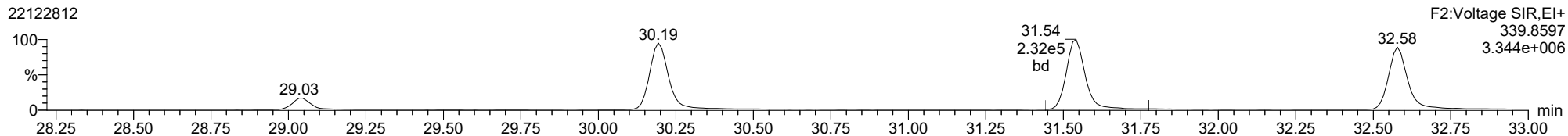
22122812



ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

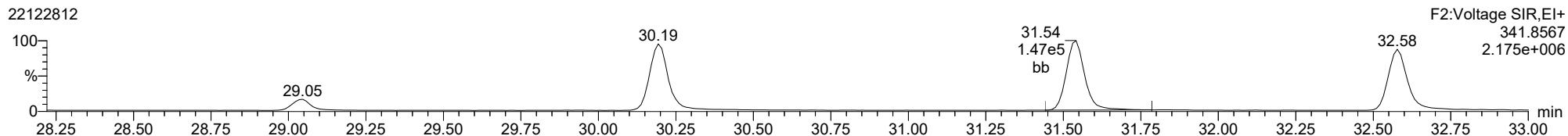
**23478-PeCDF**

22122812



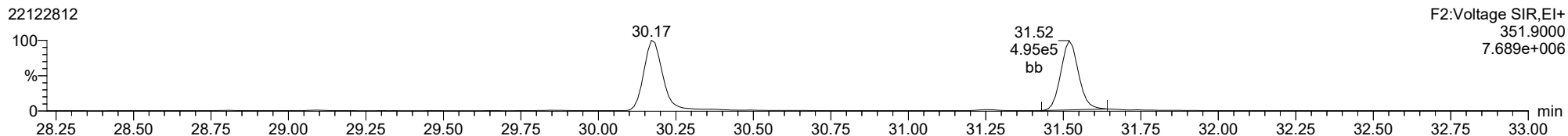
**23478-PeCDF**

22122812



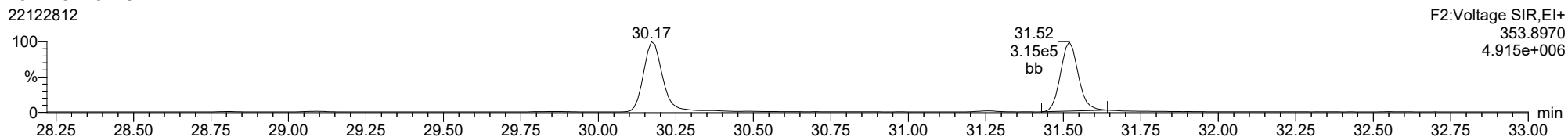
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22122812



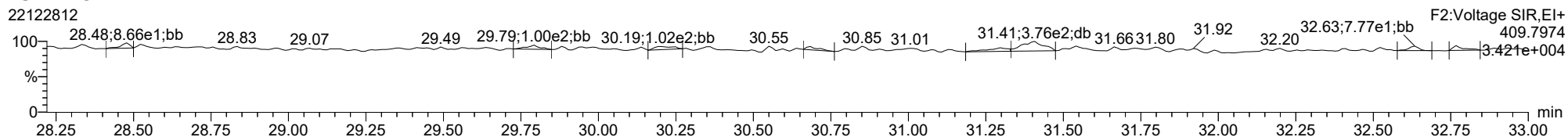
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22122812



**FUNCTION2 HPCDPE**

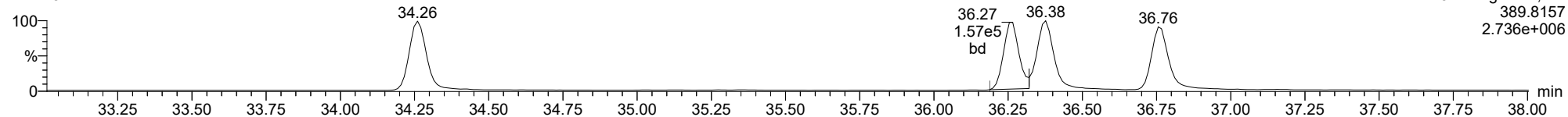
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ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

**123478-HxCDD**

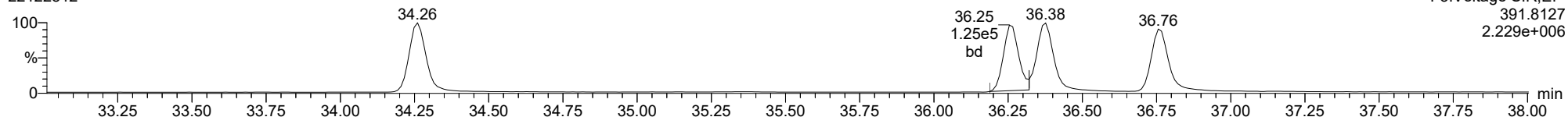
22122812



F3:Voltage SIR,EI+  
389.8157  
2.736e+006

**123478-HxCDD**

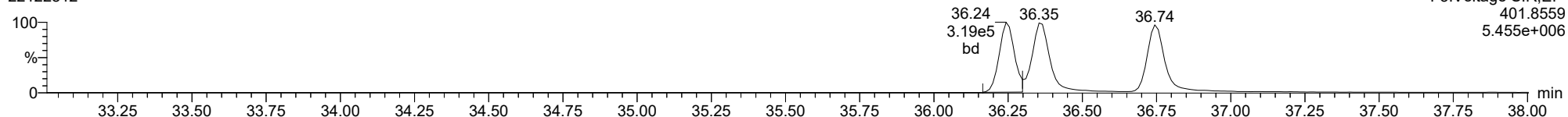
22122812



F3:Voltage SIR,EI+  
391.8127  
2.229e+006

**13C-123478-HxCDD**

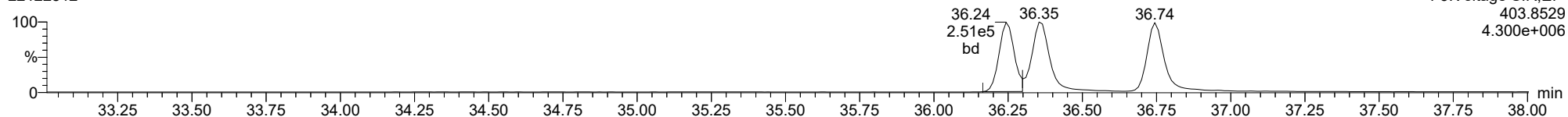
22122812



F3:Voltage SIR,EI+  
401.8559  
5.455e+006

**13C-123478-HxCDD**

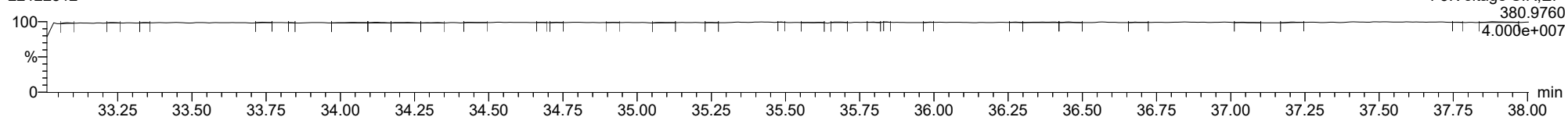
22122812



F3:Voltage SIR,EI+  
403.8529  
4.300e+006

**FUNCTION3 PFK**

22122812

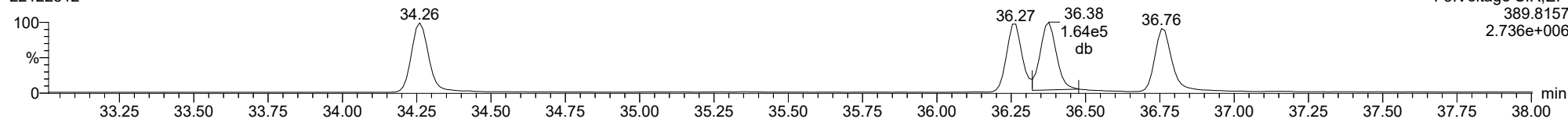


F3:Voltage SIR,EI+  
380.9760  
4.000e+007

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

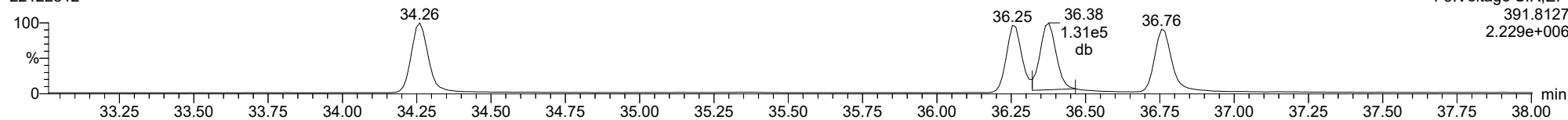
123678-HxCDD

22122812



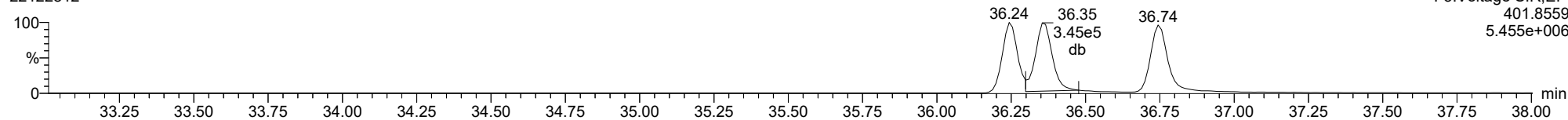
123678-HxCDD

22122812



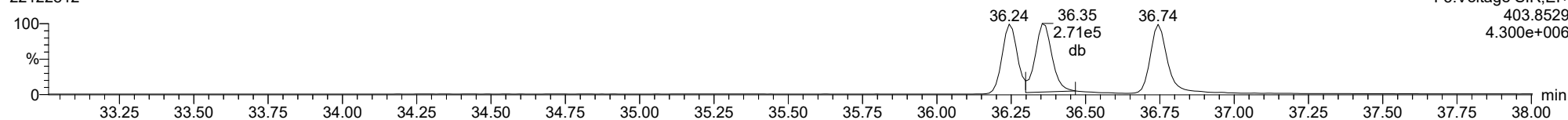
13C-123678-HxCDD

22122812



13C-123678-HxCDD

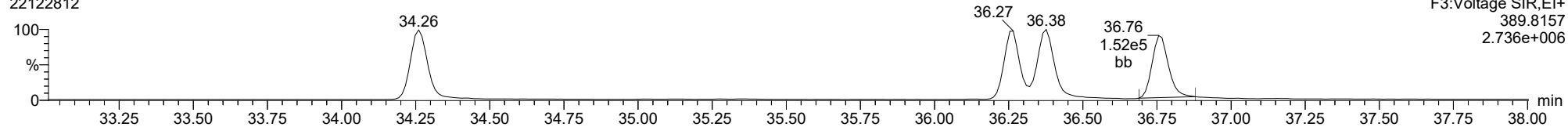
22122812



ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

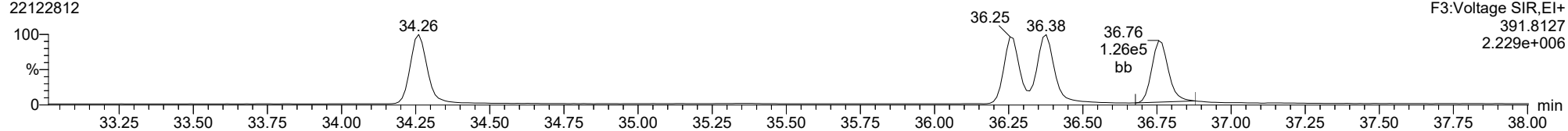
**123789-HxCDD**

22122812



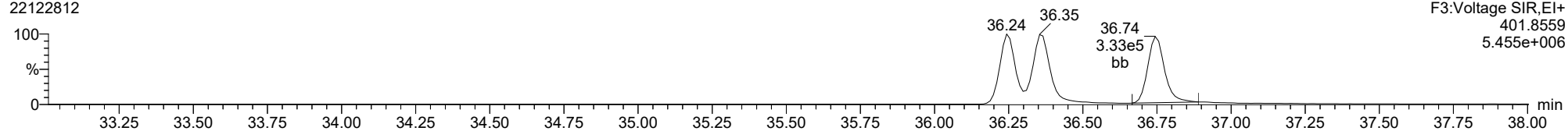
**123789-HxCDD**

22122812



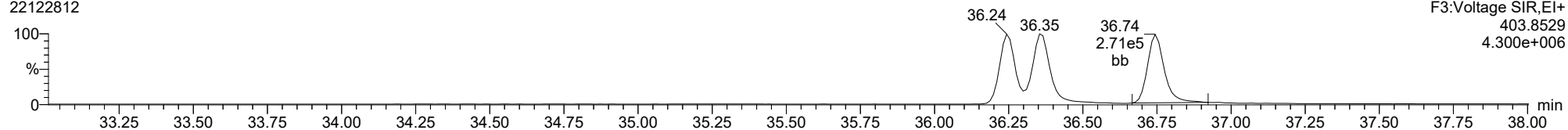
**13C-123789-HxCDD**

22122812



**13C-123789-HxCDD**

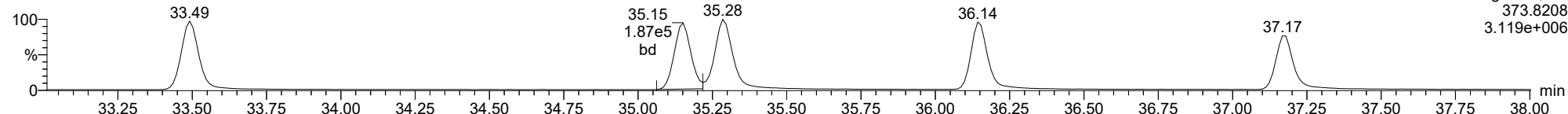
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ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

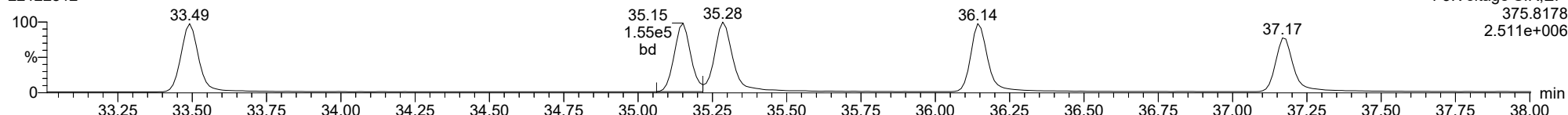
123478-HxCDF

22122812



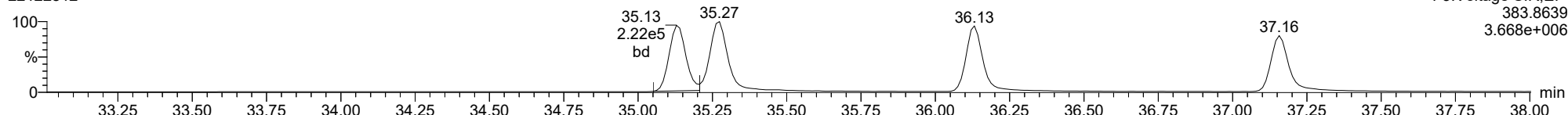
123478-HxCDF

22122812



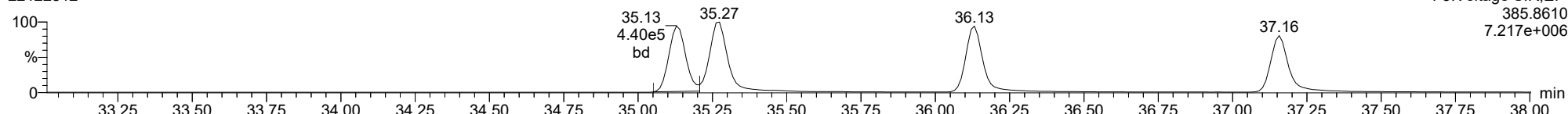
13C-123478-HxCDF

22122812



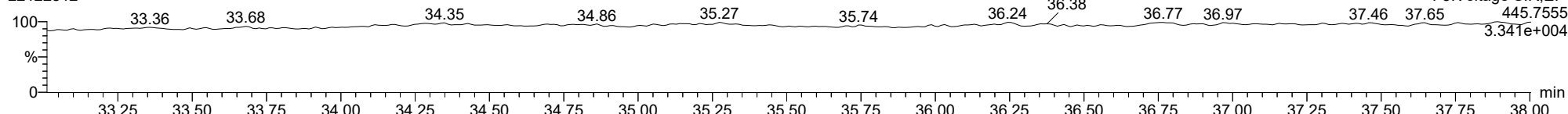
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22122812



FUNCTION3 OCDPE

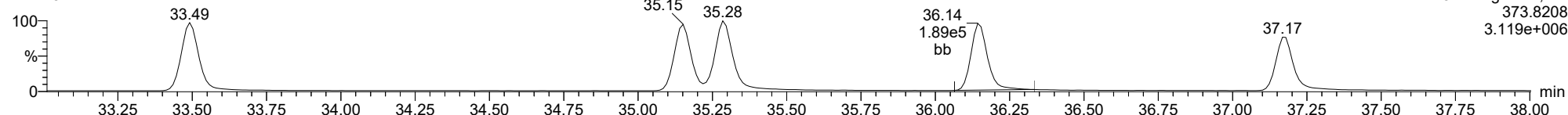
22122812



ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

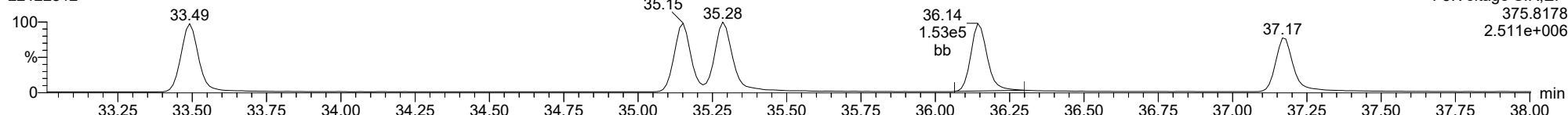
**234678-HxCDF**

22122812



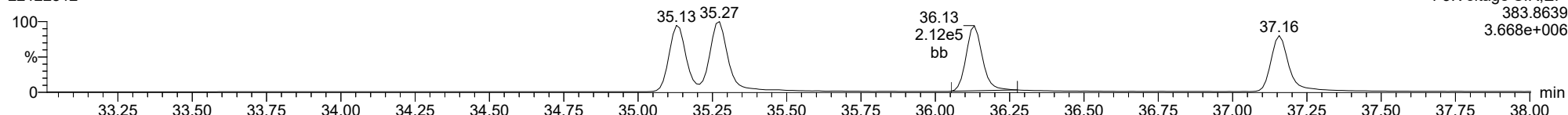
**234678-HxCDF**

22122812



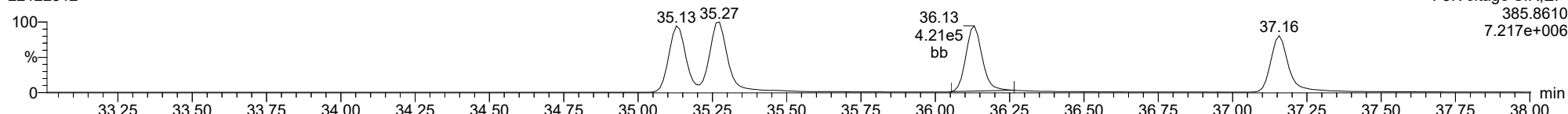
**13C-234678-HxCDF**

22122812



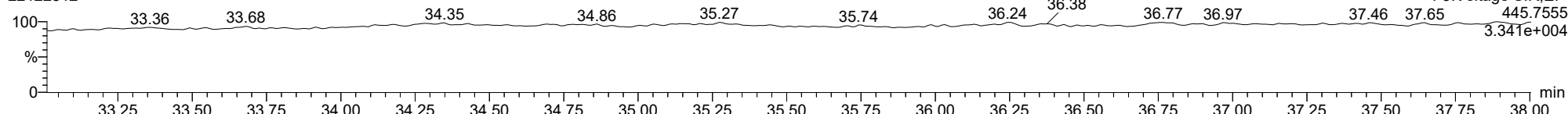
**13C-234678-HxCDF**

22122812



**FUNCTION3 OCDPE**

22122812

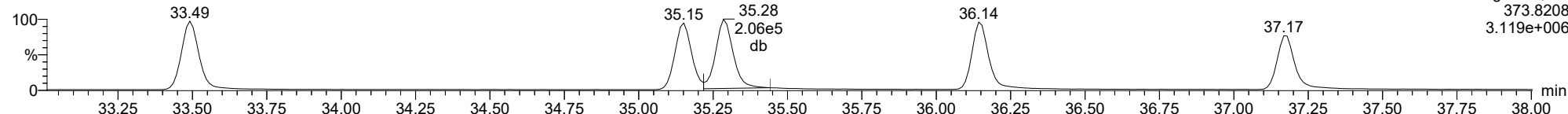




ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

123678-HxCDF

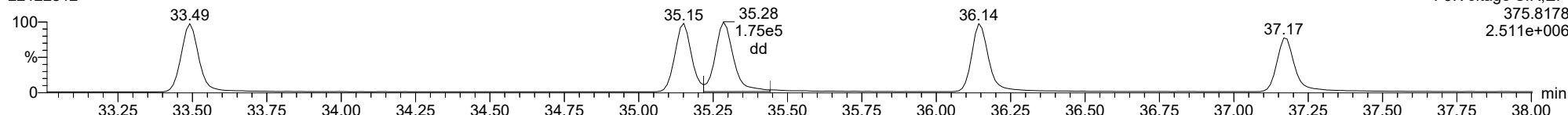
22122812



F3:Voltage SIR,EI+  
373.8208  
3.119e+006

123678-HxCDF

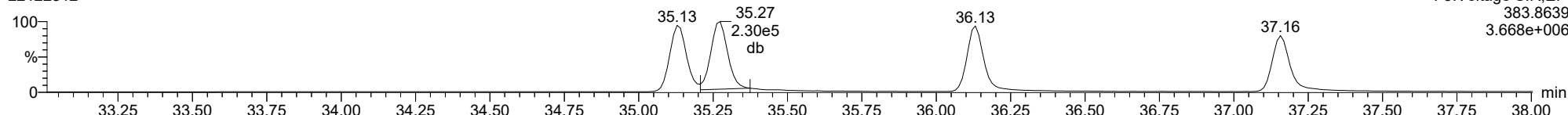
22122812



F3:Voltage SIR,EI+  
375.8178  
2.511e+006

13C-123678-HxCDF

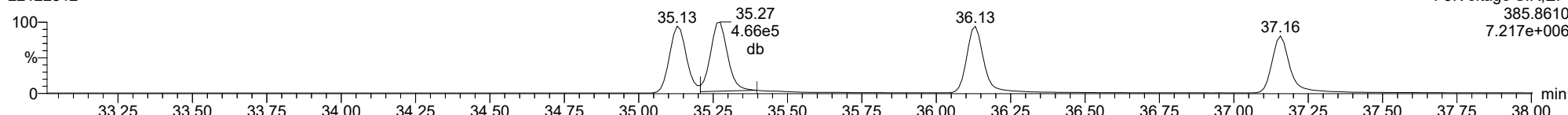
22122812



F3:Voltage SIR,EI+  
383.8639  
3.668e+006

13C-123678-HxCDF

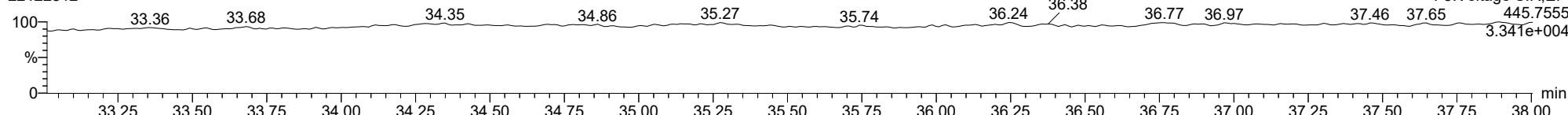
22122812



F3:Voltage SIR,EI+  
385.8610  
7.217e+006

FUNCTION3 OCDPE

22122812

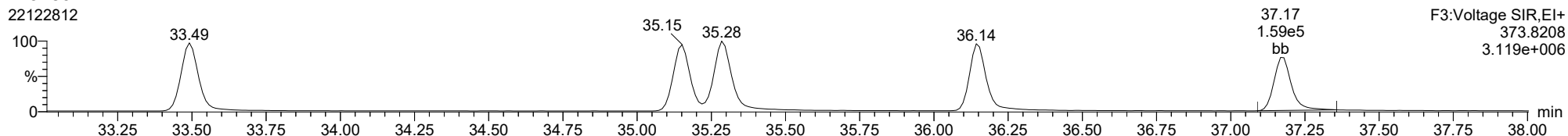


F3:Voltage SIR,EI+  
445.7555  
3.341e+004

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

**123789-HxCDF**

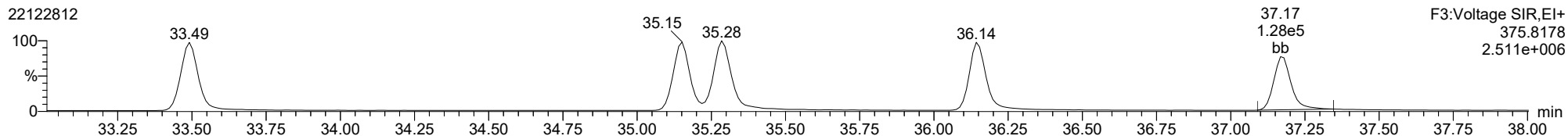
22122812



F3:Voltage SIR,EI+  
373.8208  
3.119e+006

**123789-HxCDF**

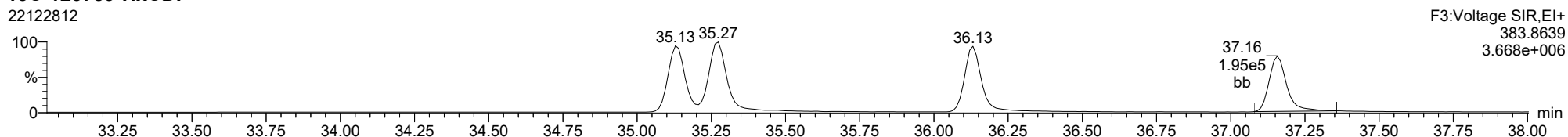
22122812



F3:Voltage SIR,EI+  
375.8178  
2.511e+006

**13C-123789-HxCDF**

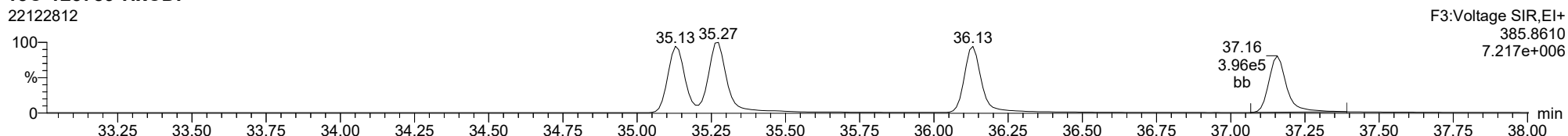
22122812



F3:Voltage SIR,EI+  
383.8639  
3.668e+006

**13C-123789-HxCDF**

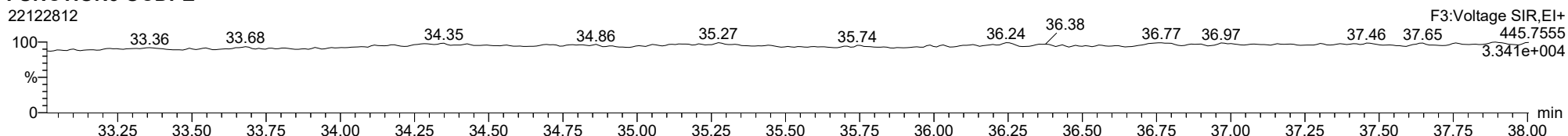
22122812



F3:Voltage SIR,EI+  
385.8610  
7.217e+006

**FUNCTION3 OCDPE**

22122812

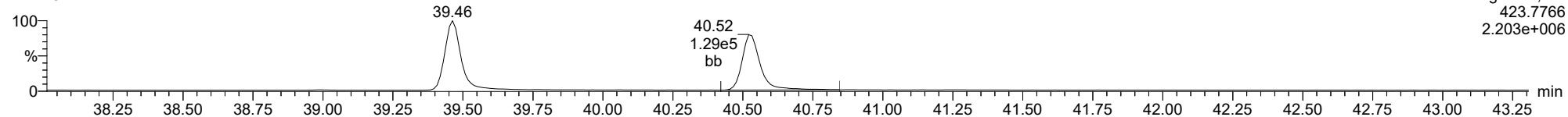


F3:Voltage SIR,EI+  
445.7555  
3.341e+004

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

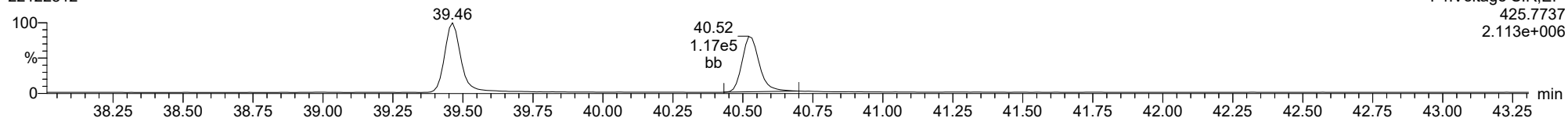
22122812



F4:Voltage SIR,El+  
423.7766  
2.203e+006

**1234678-HpCDD**

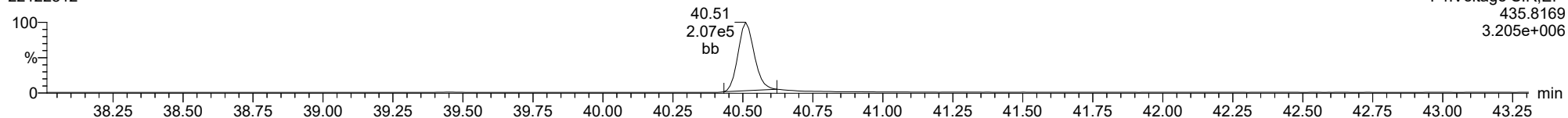
22122812



F4:Voltage SIR,El+  
425.7737  
2.113e+006

**13C-1234678-HpCDD**

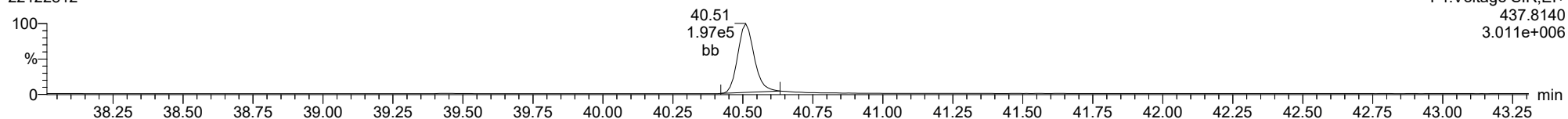
22122812



F4:Voltage SIR,El+  
435.8169  
3.205e+006

**13C-1234678-HpCDD**

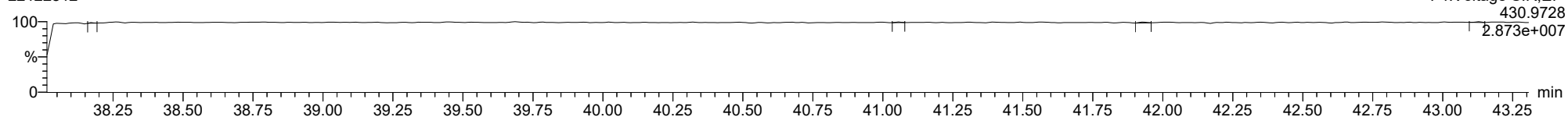
22122812



F4:Voltage SIR,El+  
437.8140  
3.011e+006

**FUNCTION4 PFK**

22122812

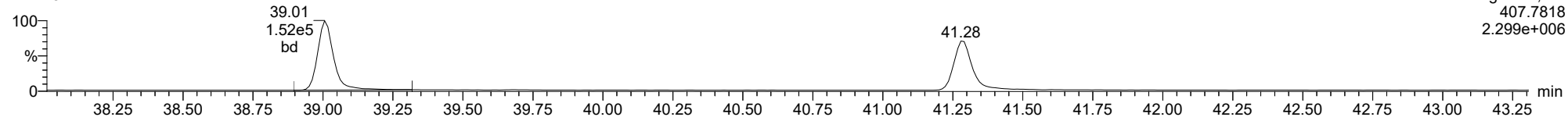


F4:Voltage SIR,El+  
430.9728  
2.873e+007

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

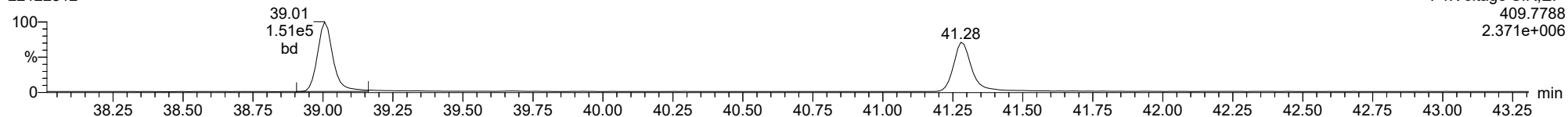
22122812



F4:Voltage SIR,EI+  
407.7818  
2.299e+006

1234678-HpCDF

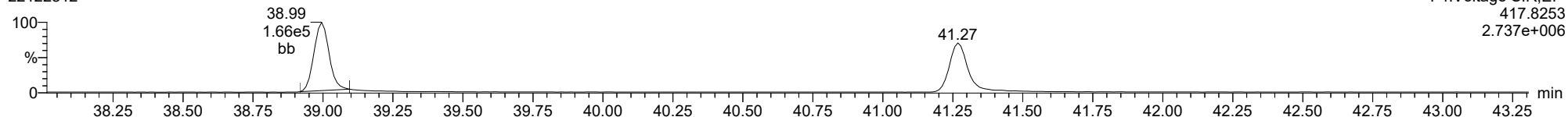
22122812



F4:Voltage SIR,EI+  
409.7788  
2.371e+006

13C-1234678-HpCDF

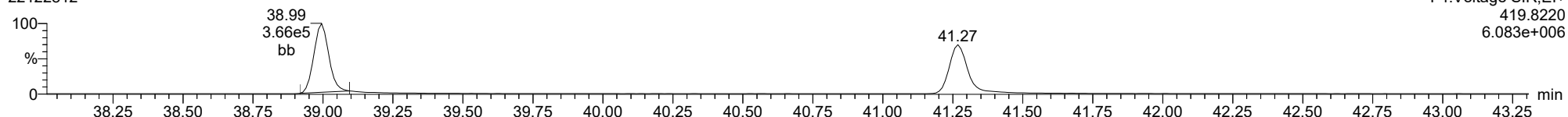
22122812



F4:Voltage SIR,EI+  
417.8253  
2.737e+006

13C-1234678-HpCDF

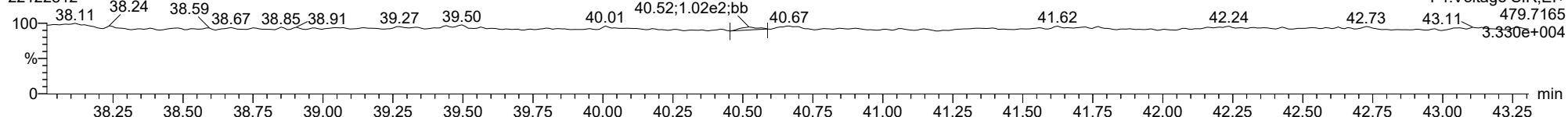
22122812



F4:Voltage SIR,EI+  
419.8220  
6.083e+006

FUNCTION4 NCDPE

22122812

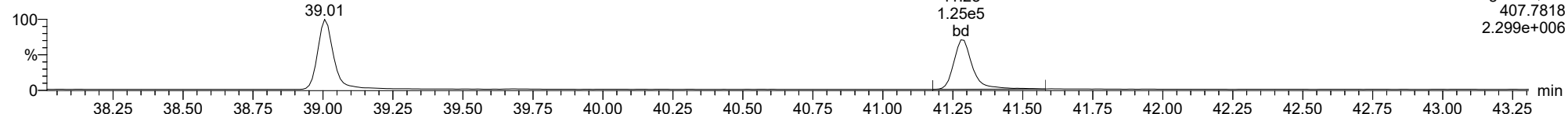


F4:Voltage SIR,EI+  
479.7165  
3.330e+004

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

**1234789-HpCDF**

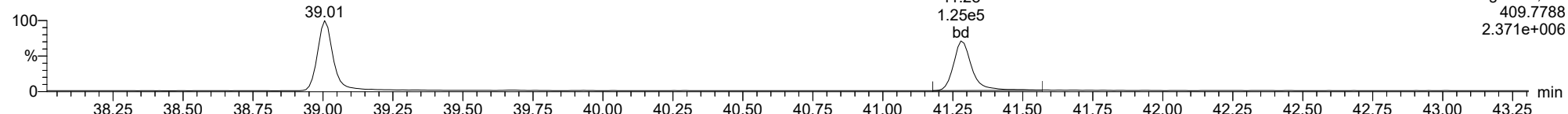
22122812



F4:Voltage SIR,EI+  
407.7818  
2.299e+006

**1234789-HpCDF**

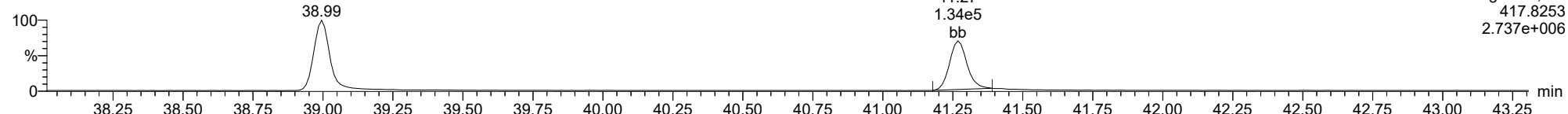
22122812



F4:Voltage SIR,EI+  
409.7788  
2.371e+006

**13C-1234789-HpCDF**

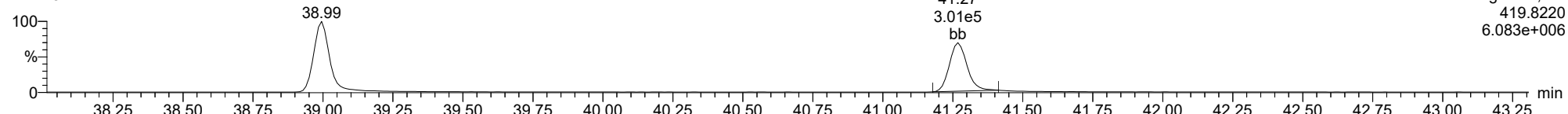
22122812



F4:Voltage SIR,EI+  
417.8253  
2.737e+006

**13C-1234789-HpCDF**

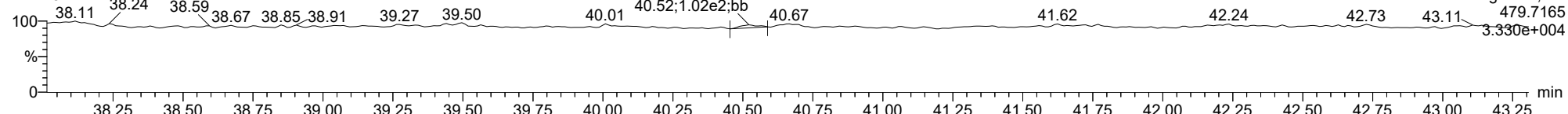
22122812



F4:Voltage SIR,EI+  
419.8220  
6.083e+006

**FUNCTION4 NCDPE**

22122812

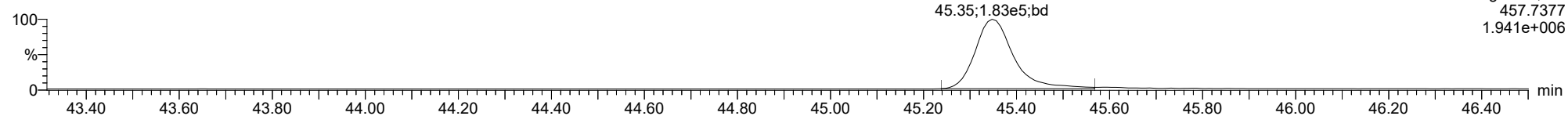


F4:Voltage SIR,EI+  
479.7165  
3.330e+004

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

**OCDD**

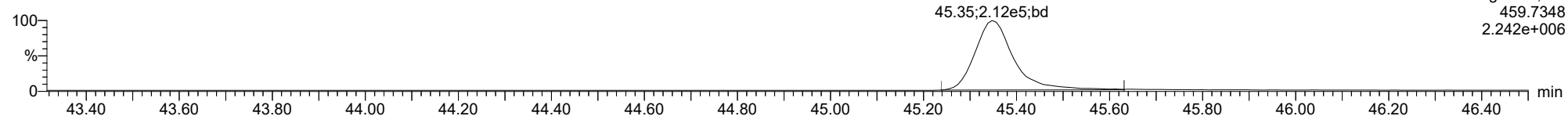
22122812



F5:Voltage SIR,EI+  
457.7377  
1.941e+006

**OCDD**

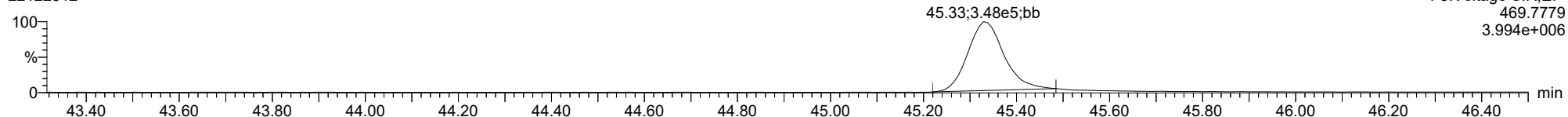
22122812



F5:Voltage SIR,EI+  
459.7348  
2.242e+006

**13C-OCDD**

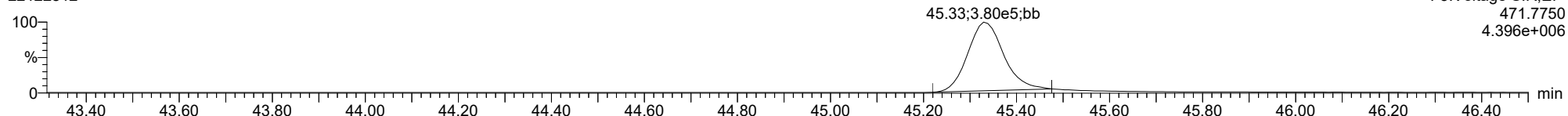
22122812



F5:Voltage SIR,EI+  
469.7779  
3.994e+006

**13C-OCDD**

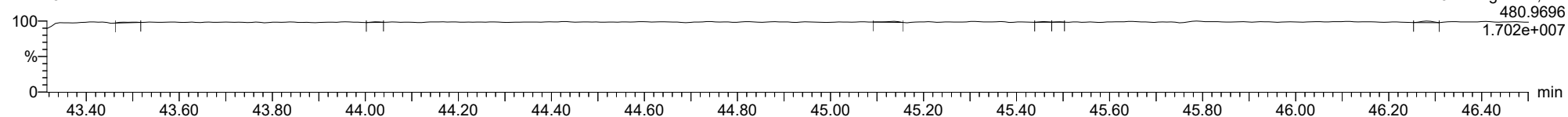
22122812



F5:Voltage SIR,EI+  
471.7750  
4.396e+006

**FUNCTION5 PFK**

22122812

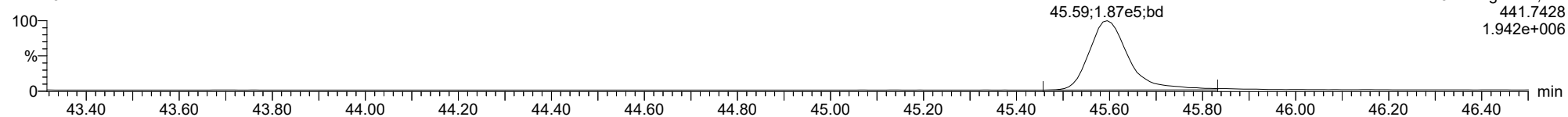


F5:Voltage SIR,EI+  
480.9696  
1.702e+007

ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

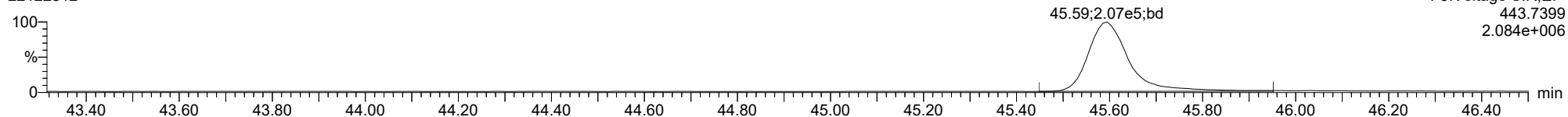
**OCDF**

22122812



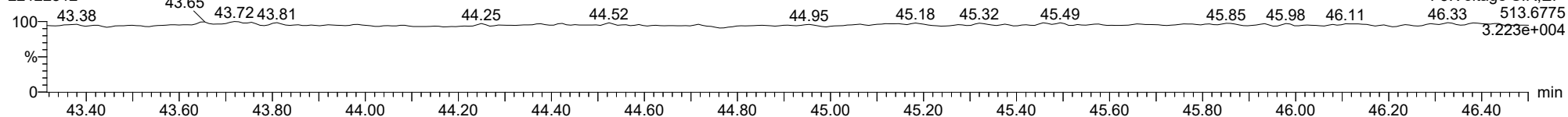
**OCDF**

22122812



**FUNCTION5 DCDPE**

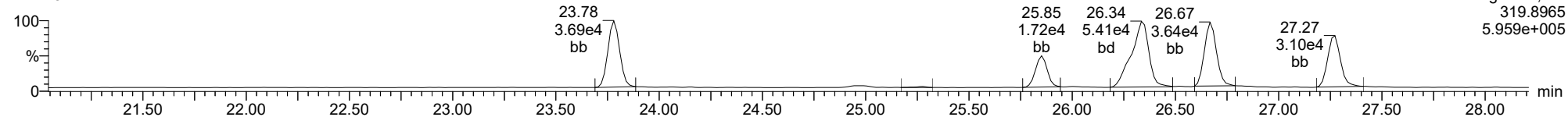
22122812



ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

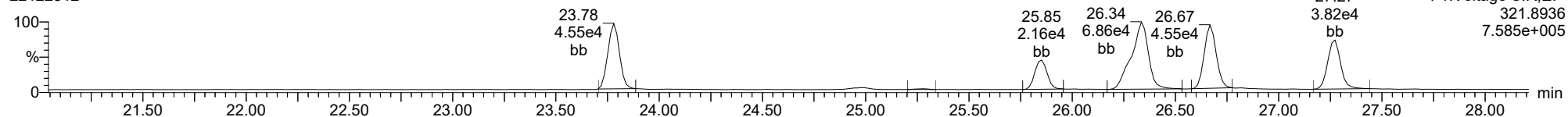
**Total-tetradoxins**

22122812



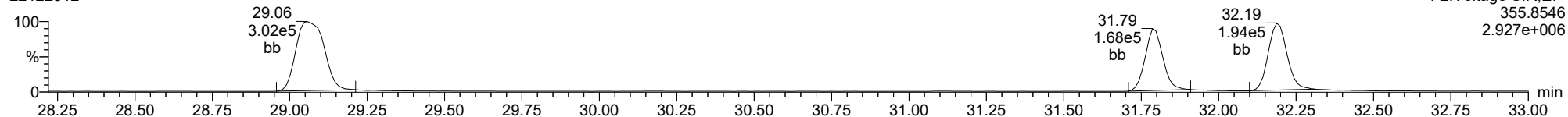
**Total-tetradoxins**

22122812



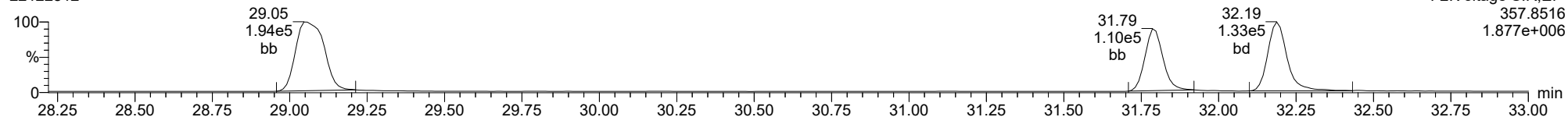
**Total-pentadoxins**

22122812



**Total-pentadoxins**

22122812

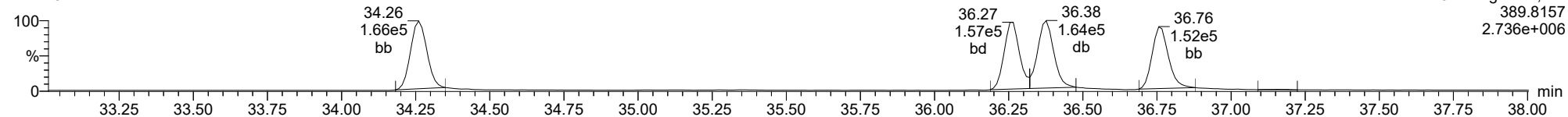




ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

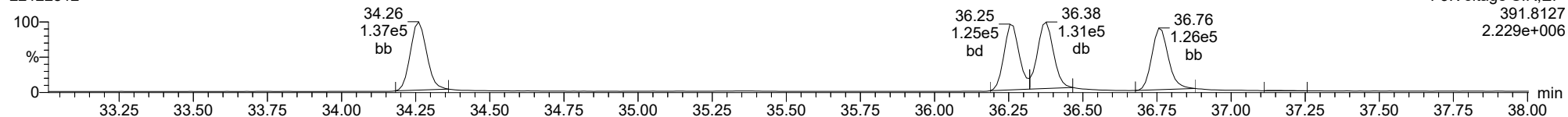
**Total-hexadioxins**

22122812



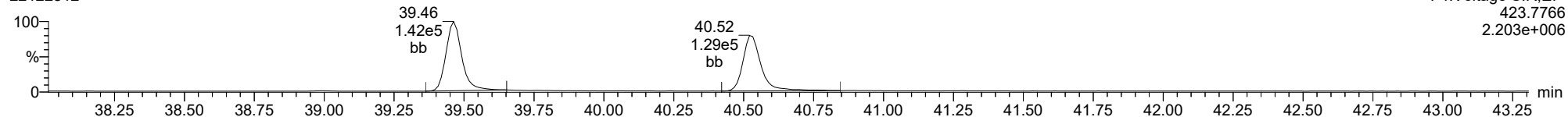
**Total-hexadioxins**

22122812



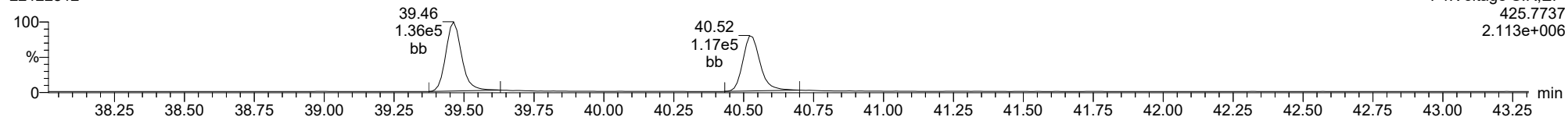
**Total-heptadioxins**

22122812



**Total-heptadioxins**

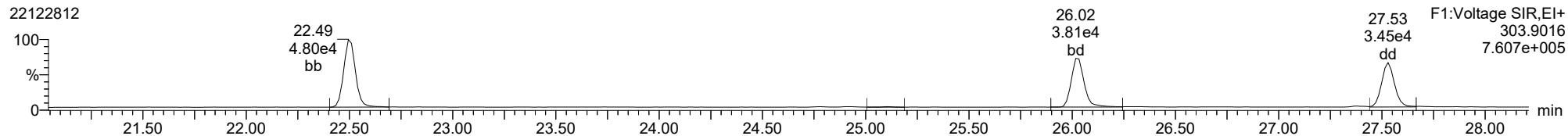
22122812



ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

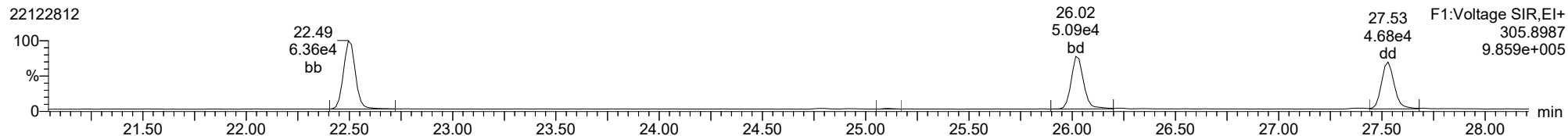
**Total-tetrafurans**

22122812



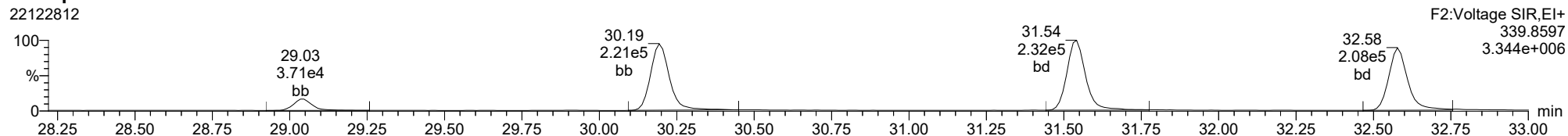
**Total-tetrafurans**

22122812



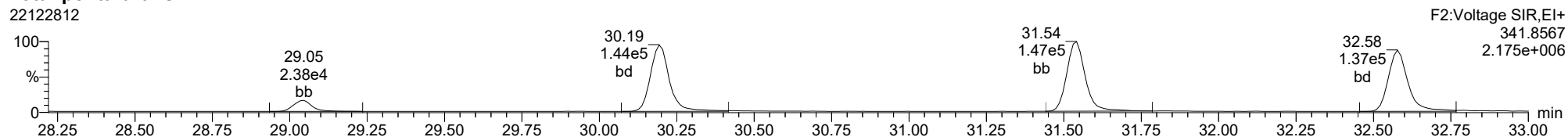
**Total-pentafurans**

22122812



**Total-pentafurans**

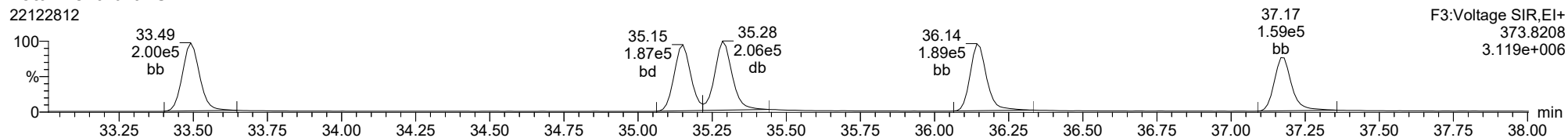
22122812



ID: CS3P2, Name: 22122812, Date: 28-Dec-2022, Time: 19:49:40, Conditions: AUTOSPEC01, User: pk

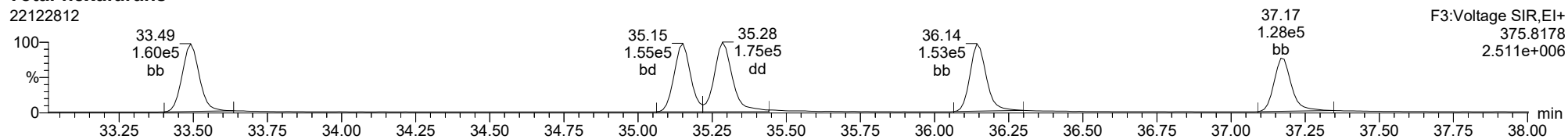
**Total-hexafurans**

22122812



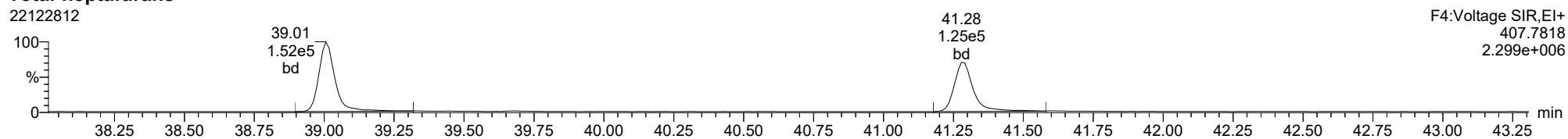
**Total-hexafurans**

22122812



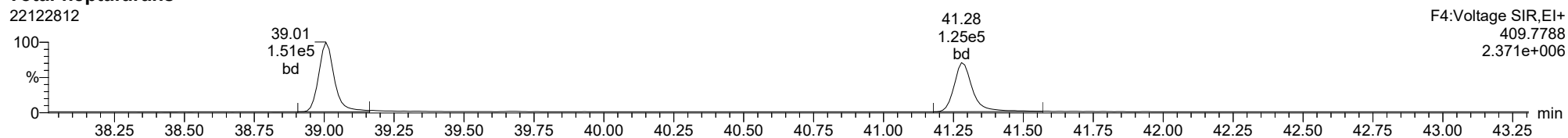
**Total-heptafurans**

22122812

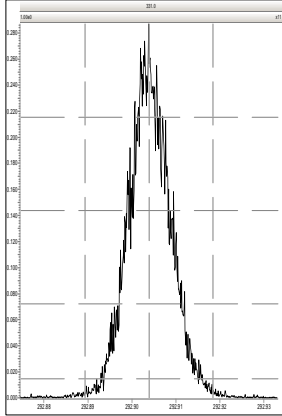


**Total-heptafurans**

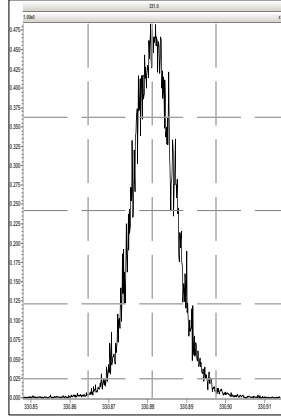
22122812



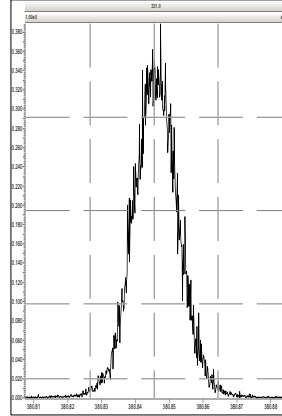
M 292.9824 R 13175



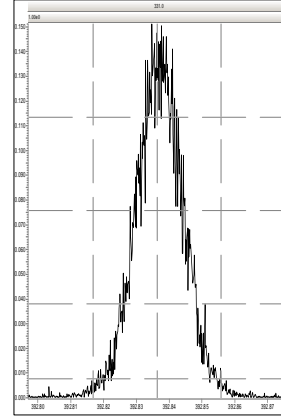
M 330.9792 R 13264



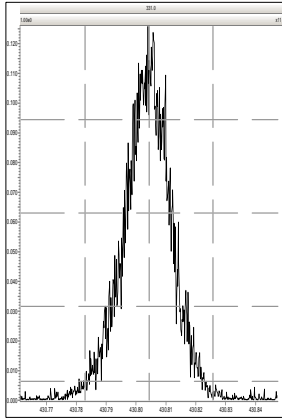
M 380.9760 R 12140



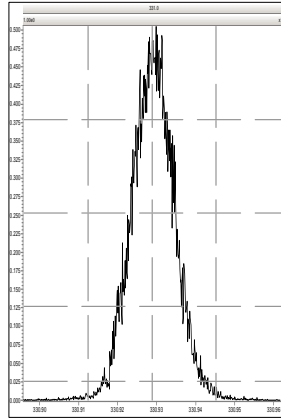
M 392.9760 R 12763



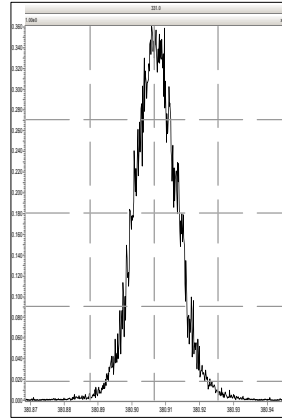
M 430.9728 R 11702



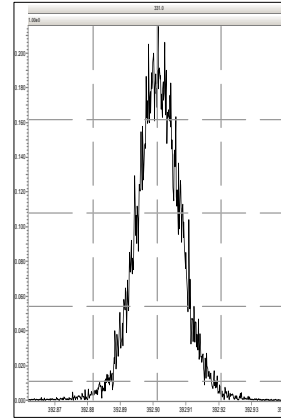
M 330.9792 R 13855



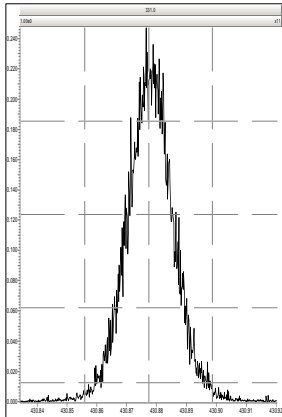
M 380.9760 R 12658



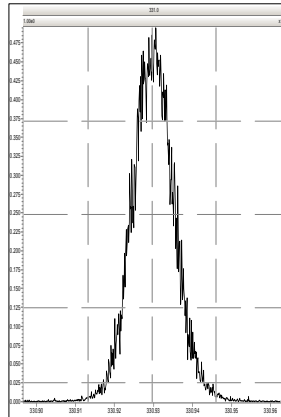
M 392.9760 R 13472



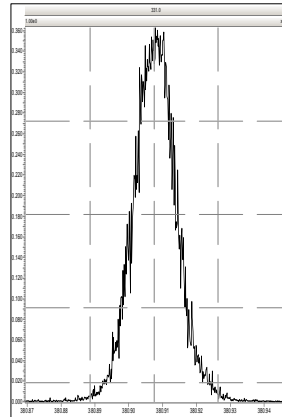
M 430.9728 R 12037



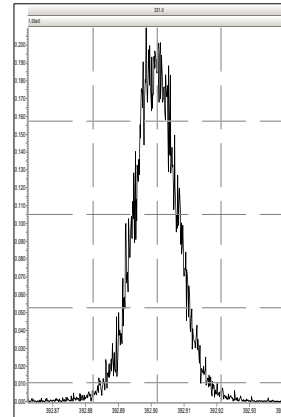
M 330.9792 R 13158



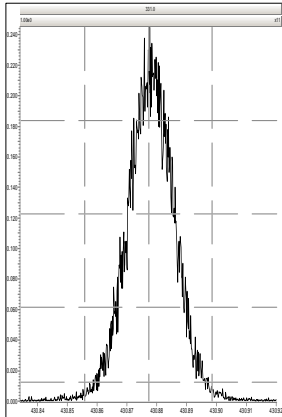
M 380.9760 R 13090



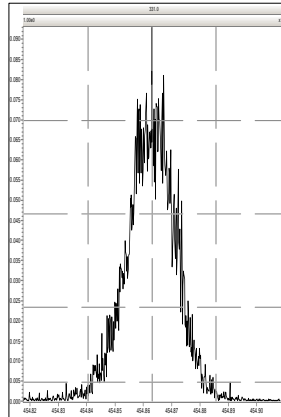
M 392.9760 R 13054



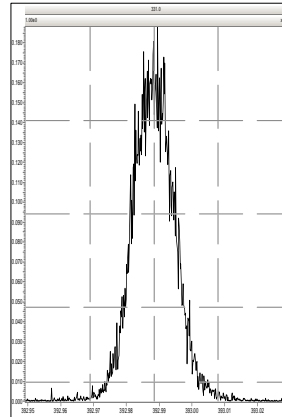
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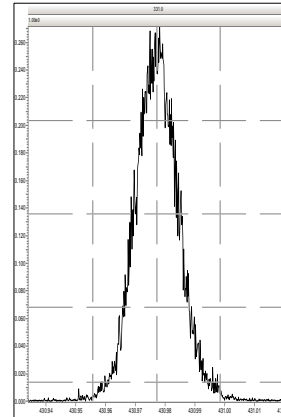
M 454.9728 R 11711



M 392.9760 R 13899

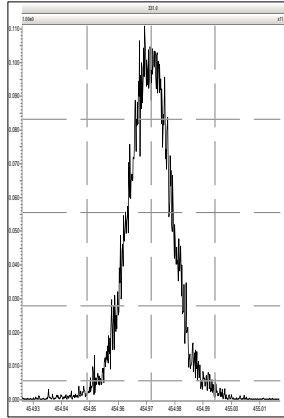


M 430.9728 R 12954

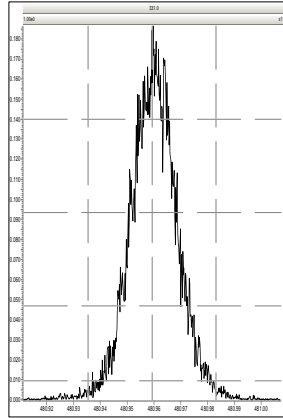


Printed: Wednesday, December 28, 2022 20:43:30 Pacific Standard Time

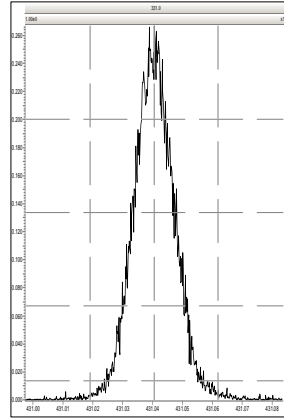
M 454.9728 R 13441



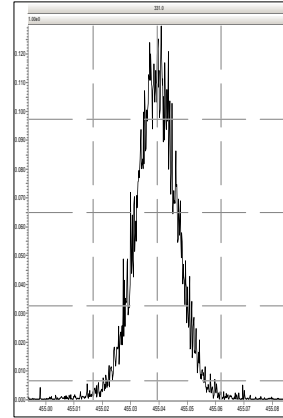
M 480.9696 R 12288



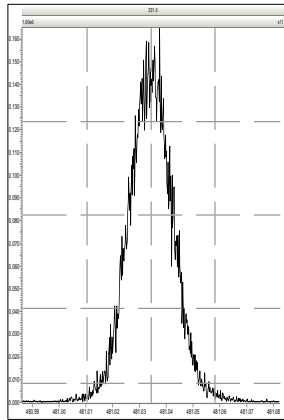
M 430.9728 R 13776



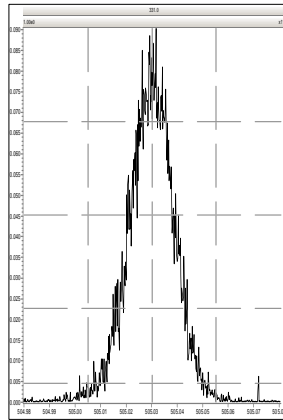
M 454.9728 R 13163



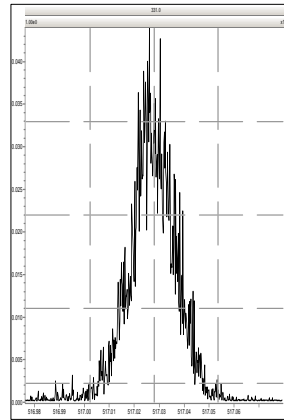
M 480.9696 R 12991



M 504.9696 R 12806



M 516.9697 R 13619

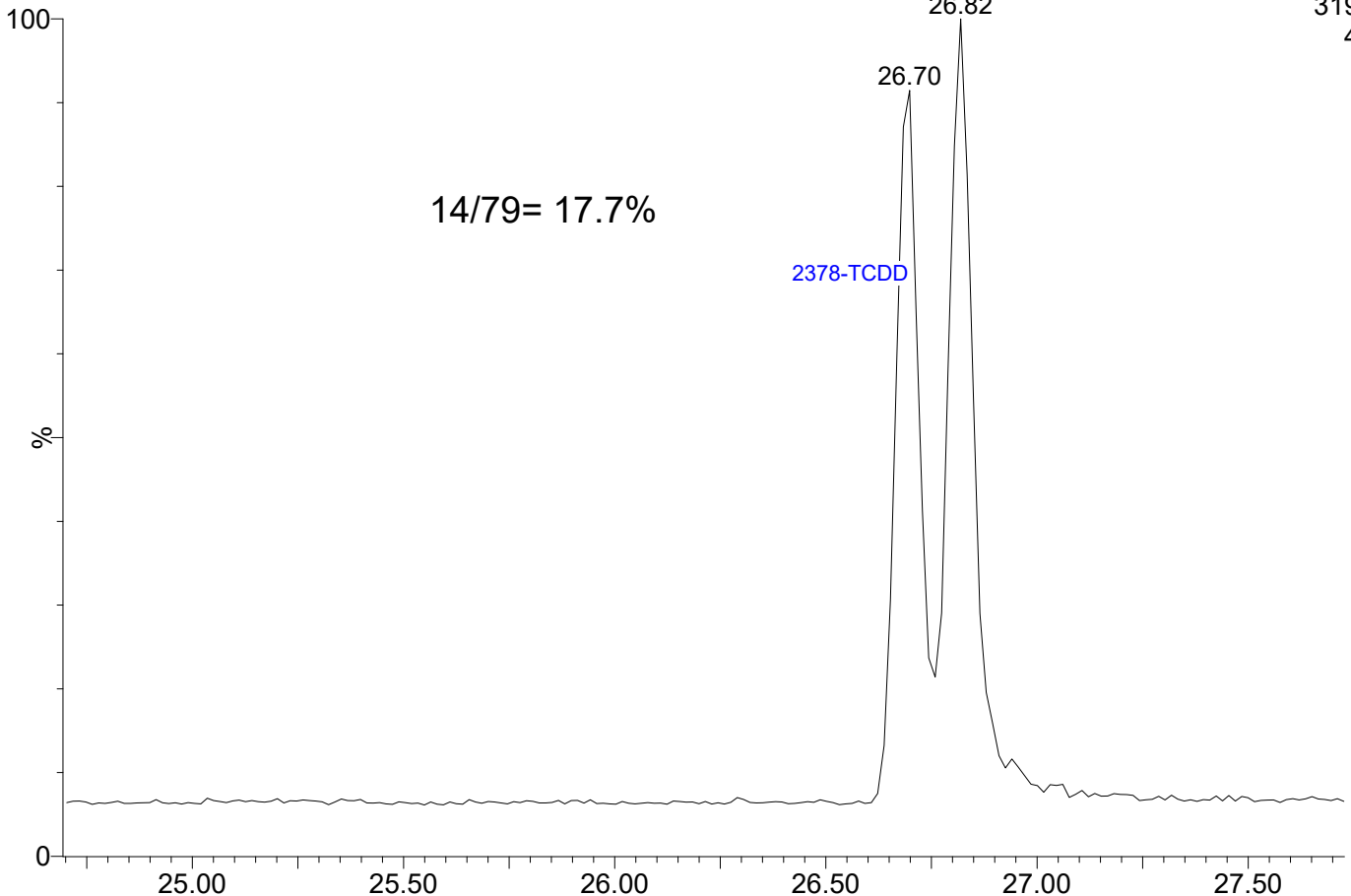


22122813

1: Voltage SIR 15 Channels EI+

319.8965

4.89e5

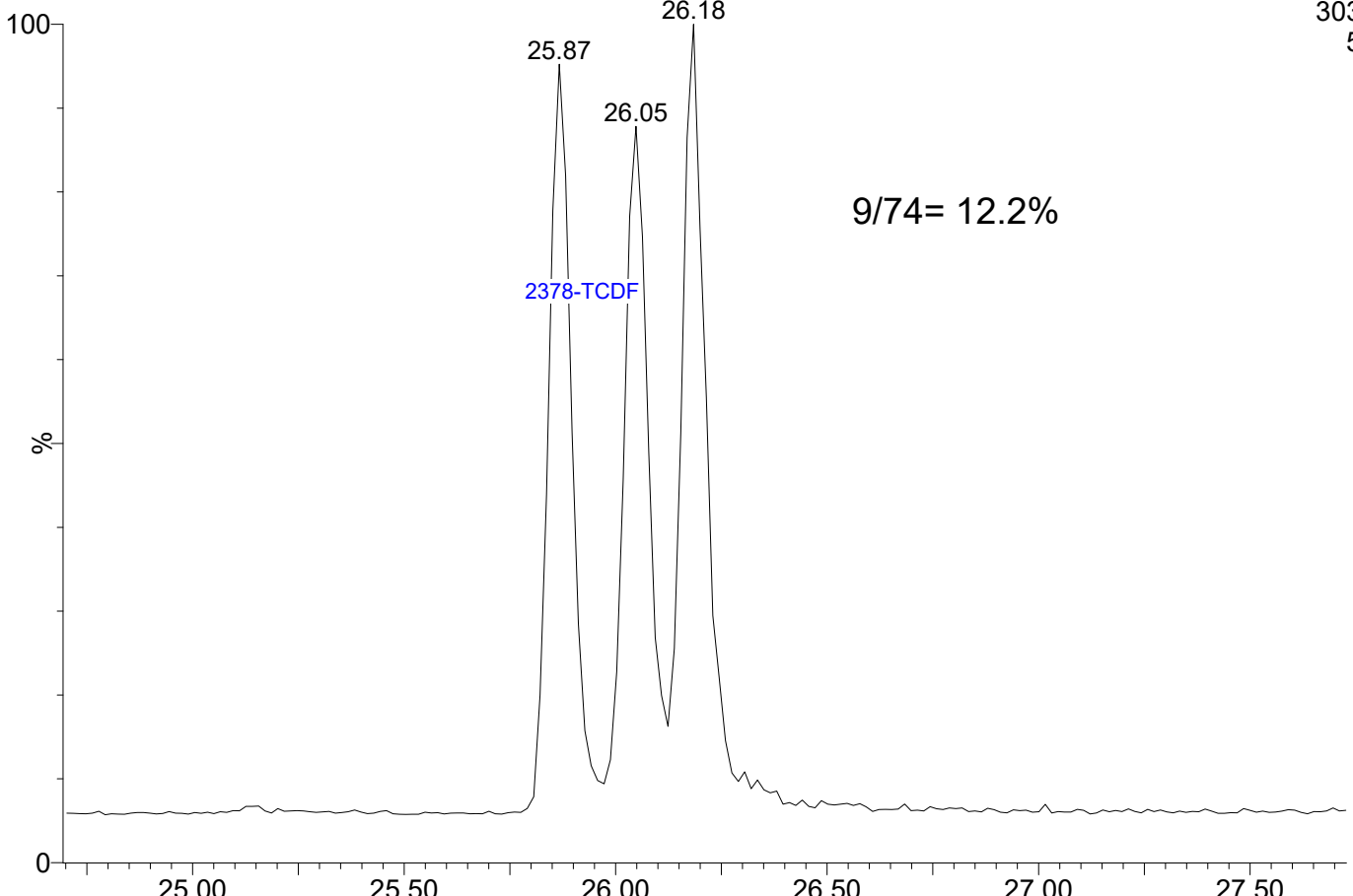


22122813

1: Voltage SIR 15 Channels EI+

303.9016

5.37e5





CONTINUING CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: FC00062

Lab File ID: 22122824

Calibration Date: 03/23/2022

Sequence: SKL0339

Injection Date: 12/29/22

Lab Sample ID: SKL0339-CCV2

Injection Time: 05:50

Sequence Name: CS3P3

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.04	0.9847005	0.8899377		-9.6	+/-16
2,3,7,8-TCDD	A	10.000	9.49	1.1678960	1.1087260		-5.1	+/-22
1,2,3,7,8-PeCDF	A	50.000	47.0	0.9056077	0.8512928		-6.0	+/-18
2,3,4,7,8-PeCDF	A	50.000	44.9	1.0075470	0.9049208		-10.2	+/-18
1,2,3,7,8-PeCDD	A	50.000	50.2	1.1518210	1.1563450		0.4	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.2	1.0453780	1.0281980		-1.6	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	51.4	1.0194580	1.0472120		2.7	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	49.2	1.1009420	1.0836740		-1.6	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	49.7	0.9922439	0.9863051		-0.6	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	53.6	0.9339489	1.0008680		7.2	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	50.2	0.9503637	0.9549162		0.5	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	55.3	0.8735404	0.9647926		10.5	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	45.5	1.2432150	1.1322470		-8.9	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.7	1.1920880	1.1382900		-4.5	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.2	1.2681100	1.1969210		-5.6	+/-14
OCDF	A	100.00	75.1	1.3028850	0.9785648		-24.9	+/-37
OCDD	A	100.00	95.5	1.0892710	1.0397900		-4.5	+/-21
13C12-2,3,7,8-TCDF	A	100.00	83.6	1.7513890	1.4643310		-16.4	+/-29
13C12-2,3,7,8-TCDD	A	100.00	102	1.0814050	1.1074903		2.4	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	86.4	1.4417600	1.2458310		-13.6	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	89.5	1.3657630	1.2224759		-10.5	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	94.8	0.7763790	0.7363064		-5.2	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	97.3	1.0947840	1.0655262		-2.7	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	92.9	1.1676720	1.0851255		-7.1	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	99.9	1.0228740	1.0214614		-0.1	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	105	0.8787479	0.9229859		5.0	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	95.6	0.9749220	0.9319396		-4.4	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	90.3	1.0665120	0.9626158		-9.7	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	93.7	0.9254863	0.8674640		-6.3	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	98.2	0.7148797	0.7022703		-1.8	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	116	0.5816149	0.6755689		16.2	+/-28
13C12-OCDD	A	200.00	238	0.5085582	0.6064216		19.2	+/-52
37C14-2,3,7,8-TCDD	A	10.000	9.63	1.1201030	1.0790354		-3.7	

\* Values outside of QC limits

**Method:** T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

**ID:** CS3P3, **Name:** 22122824, **Date:** 29-Dec-2022, **Time:** 05:50:02, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	26.048	1.001	3.898e4	5.238e4	0.985	0.744	0.770	664	1148	5.58e5	7.70e5	840.9	670.4	NO	bd	db	9.038
12378-PeCDF	30.215	1.001	2.247e5	1.470e5	0.906	1.529	1.550	2907	1726	3.30e6	2.17e6	1136.3	1256.9	NO	bd	bd	47.001
23478-PeCDF	31.564	1.001	2.358e5	1.520e5	1.008	1.552	1.550	2907	1726	3.48e6	2.24e6	1197.3	1294.8	NO	bb	db	44.907
123478-HxCDF	35.174	1.001	2.027e5	1.667e5	1.045	1.216	1.240	1667	1245	3.21e6	2.63e6	1924.6	2112.3	NO	bd	bd	49.178
234678-HxCDF	36.165	1.000	2.042e5	1.690e5	1.101	1.208	1.240	1667	1245	3.26e6	2.64e6	1953.6	2120.8	NO	bb	bd	49.216
123678-HxCDF	35.307	1.000	2.101e5	1.730e5	1.019	1.214	1.240	1667	1245	3.27e6	2.69e6	1960.6	2157.7	NO	db	db	51.361
123789-HxCDF	37.190	1.000	1.655e5	1.415e5	0.992	1.170	1.240	1667	1245	2.60e6	2.15e6	1556.9	1725.8	NO	bb	bd	49.701
1234678-HpCDF	39.028	1.000	1.635e5	1.677e5	1.243	0.975	1.050	1280	1834	2.46e6	2.56e6	1923.6	1393.4	NO	bd	bd	45.537
1234789-HpCDF	41.313	1.001	1.324e5	1.371e5	1.192	0.966	1.050	1280	1834	1.76e6	1.77e6	1377.9	966.6	NO	bd	bd	47.744
OCDF	45.632	1.006	1.916e5	2.085e5	1.303	0.919	0.890	1165	1079	1.95e6	2.16e6	1677.1	2005.7	NO	bd	bd	75.108
2378-TCDD	26.683	1.001	3.826e4	4.783e4	1.168	0.800	0.770	1073	980	5.76e5	7.26e5	537.1	740.9	NO	bb	bb	9.493
12378-PeCDD	31.809	1.000	1.807e5	1.177e5	1.152	1.535	1.550	1571	1272	2.80e6	1.84e6	1780.5	1444.4	NO	bb	bb	50.196
123478-HxCDD	36.277	1.000	1.730e5	1.415e5	0.934	1.222	1.240	1261	1857	2.78e6	2.29e6	2206.3	1232.3	NO	bd	bd	53.583
123678-HxCDD	36.399	1.001	1.716e5	1.383e5	0.950	1.241	1.240	1261	1857	2.81e6	2.24e6	2226.7	1206.5	NO	db	db	50.240
123789-HxCDD	36.778	1.011	1.692e5	1.389e5	0.873	1.218	1.240	1261	1857	2.77e6	2.28e6	2194.1	1227.4	NO	bb	bb	55.250
1234678-HpCDD	40.555	1.001	1.374e5	1.352e5	1.268	1.017	1.050	1790	1619	1.94e6	1.84e6	1081.3	1138.8	NO	bb	bd	47.193
OCDD	45.384	1.000	2.035e5	2.217e5	1.089	0.918	0.890	2173	1103	2.03e6	2.32e6	933.0	2107.6	NO	bd	bb	95.457
13C-2378-TCDF	26.033	1.007	4.444e5	5.822e5	1.751	0.763	0.770	1691	1159	6.74e6	8.79e6	3985.2	7586.5	NO	bb	bb	83.610
13C-12378-PeCDF	30.193	1.168	5.302e5	3.432e5	1.442	1.545	1.550	1902	1398	8.09e6	5.23e6	4254.2	3738.9	NO	bb	bb	86.410
13C-23478-PeCDF	31.542	1.220	5.188e5	3.383e5	1.366	1.533	1.550	1902	1398	7.97e6	5.20e6	4189.7	3721.4	NO	bb	bb	89.509
13C-123478-HxCDF	35.151	0.956	2.393e5	4.791e5	1.095	0.500	0.510	1489	2346	3.71e6	7.53e6	2489.9	3211.1	NO	bd	bd	97.328
13C-123678-HxCDF	35.296	0.960	2.444e5	4.873e5	1.168	0.502	0.510	1489	2346	3.85e6	7.67e6	2588.3	3268.9	NO	db	db	92.931
13C-234678-HxCDF	36.154	0.983	2.300e5	4.588e5	1.023	0.501	0.510	1489	2346	3.76e6	7.52e6	2524.4	3206.0	NO	bb	bb	99.862
13C-123789-HxCDF	37.179	1.011	2.075e5	4.148e5	0.879	0.500	0.510	1489	2346	3.29e6	6.55e6	2209.5	2790.1	NO	bb	bb	105.034
13C-1234678-HpCDF	39.017	1.061	1.821e5	4.028e5	0.925	0.452	0.440	1500	2042	2.98e6	6.54e6	1985.6	3204.0	NO	bb	bb	93.731
13C-1234789-HpCDF	41.290	1.123	1.447e5	3.288e5	0.715	0.440	0.440	1500	2042	2.03e6	4.66e6	1355.5	2282.2	NO	bb	bb	98.236
13C-1234-TCDD	25.851	0.000	3.061e5	3.950e5	1.000	0.775	0.770	1665	811	4.71e6	6.03e6	2827.0	7437.5	NO	bb	bb	100.000
13C-2378-TCDD	26.668	1.032	3.371e5	4.394e5	1.081	0.767	0.770	1665	811	5.12e6	6.71e6	3074.3	8267.5	NO	bb	bb	102.412
13C-12378-PeCDD	31.798	1.230	3.213e5	1.949e5	0.776	1.649	1.550	1063	999	4.86e6	2.94e6	4572.8	2942.9	NO	bb	bb	94.839
13C-123478-HxCDD	36.265	0.986	3.511e5	2.772e5	0.975	1.266	1.240	1811	1656	5.87e6	4.55e6	3243.2	2749.0	NO	bd	bd	95.591
13C-123678-HxCDD	36.377	0.989	3.612e5	2.879e5	1.067	1.255	1.240	1811	1656	5.79e6	4.71e6	3196.6	2846.4	NO	db	db	90.258
13C-1234678-HpCDD	40.533	1.102	2.369e5	2.186e5	0.582	1.084	1.050	1434	1276	3.51e6	3.28e6	2444.4	2572.0	NO	bb	bb	116.154
13C-OCDD	45.366	1.234	3.911e5	4.267e5	0.509	0.917	0.890	2102	1436	4.23e6	4.62e6	2012.1	3216.7	NO	bb	bb	238.487
13C-123789-HxCDD	36.767	0.000	3.772e5	2.971e5	1.000	1.270	1.240	1811	1656	5.99e6	4.71e6	3304.4	2844.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.683	1.032	7.565e4		1.120			1160		1.11e6		960.1			bb		9.633



Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.525	0.865	4.608e4	6.201e4	1.300	0.743	0.770	664	1148	7.04e5	9.29e5	1061.2	809.1	NO	bb	bb	8.097
1289-TCDF	27.545	1.058	3.456e4	5.055e4	0.931	0.684	0.770	664	1148	4.91e5	7.20e5	740.1	627.2	NO	dd	dd	8.901
13468-PECDF	27.394	0.907	3.433e5	2.291e5	1.308	1.499	1.550	657	1010	5.15e6	3.49e6	7843.9	3457.8	NO	bb	bb	50.083
12389-PECDF	32.600	1.080	2.197e5	1.421e5	0.860	1.547	1.550	2907	1726	3.10e6	2.03e6	1066.1	1178.7	NO	bd	bb	48.148
123468-HXCDF	33.514	0.953	2.094e5	1.693e5	1.156	1.236	1.240	1667	1245	3.20e6	2.60e6	1921.3	2086.1	NO	bb	bb	45.583
1368-TCDD	23.795	0.892	3.730e4	4.547e4	1.151	0.820	0.770	1073	980	5.78e5	7.15e5	538.4	730.2	NO	bb	bb	9.262
1289-TCDD	27.288	1.023	3.324e4	4.141e4	0.950	0.803	0.770	1073	980	5.01e5	6.29e5	466.7	642.2	NO	bb	bb	10.121
12479-PECDD	29.079	0.915	3.141e5	1.990e5	2.164	1.579	1.550	1571	1272	3.04e6	1.94e6	1933.3	1523.5	NO	bb	bb	45.925
12389-PECDD	32.210	1.013	2.134e5	1.367e5	1.371	1.561	1.550	1571	1272	3.30e6	2.08e6	2102.2	1637.1	NO	bb	bb	49.482
124679-HXCDD	34.282	0.945	1.858e5	1.467e5	1.153	1.266	1.240	1261	1857	2.88e6	2.32e6	2281.0	1249.3	NO	bb	bb	45.908
1234679-HPCDD	39.485	0.974	1.613e5	1.482e5	1.473	1.088	1.050	1790	1619	2.44e6	2.28e6	1362.3	1406.5	NO	bd	bb	46.113
Total-tetrafurans			1.196e5		1.072			664		1.75e6							26.036
Total-penta1			3.433e5					657		5.15e6							50.083
Total-pentafurans			7.205e5		0.924			2907		1.05e7							148.343
Total-hexafurans			9.918e5		1.063			1667		1.55e7							245.039
Total-heptafurans			2.962e5		1.218			1280		4.23e6							93.365
Total-Furans			2.663e6		1.090			664		3.91e7							637.973
Total-tetradiioxins			1.865e5		1.090			1073		2.55e6							49.167
Total-pentadiioxins			7.082e5		1.562			1571		9.13e6							145.603
Total-hexadiioxins			6.998e5		0.978			1261		1.12e7							205.058
Total-heptadiioxins			2.987e5		1.371			1790		4.37e6							93.306
Total-Dioxins			2.097e6		1.207			1073		2.93e7							588.592
Total-TEQ			4.760e6					1073		6.84e7							1226.566
FUNCTION1 PFK			2.371e5					254630		5.75e6							
FUNCTION2 PFK			1.655e3					121745		1.49e5							0.000
FUNCTION3 PFK			0.000e0					182869		0.00e0							
FUNCTION4 PFK			0.000e0					145286		0.00e0							
FUNCTION5 PFK			1.585e5					110652		5.41e6							
FUNCTION1 HXCD...			1.720e2					564		2.44e3							0.000
FUNCTION1 HPCD...			4.390e2					685		6.90e3							0.000
FUNCTION2 HPCD...			2.807e2					693		4.64e3							0.000
FUNCTION3 OCDPE			0.000e0					559		0.00e0							
FUNCTION4 NCDPE			1.495e2					650		2.71e3							0.000
FUNCTION5 DCDPE			7.228e1					501		1.17e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

**Method: T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30****Calibration: T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14****ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.54	3.456e4	5.055e4	0.931	0.68	0.77	740.1	YES	NO	dd	dd	8.901
2	2378-TCDF	26.05	3.898e4	5.238e4	0.985	0.74	0.77	840.9	YES	NO	bd	db	9.038
3	1368-TCDF	22.53	4.608e4	6.201e4	1.300	0.74	0.77	1061.2	YES	NO	bb	bb	8.097

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.39	3.433e5	2.291e5	1.308	1.50	1.55	7843.9	YES	NO	bb	bb	50.083

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.06	3.718e4	2.426e4	0.924	1.53	1.55	191.3	YES	NO	bb	bb	7.680
2	12389-PECDF	32.60	2.197e5	1.421e5	0.860	1.55	1.55	1066.1	YES	NO	bd	bb	48.148
3	23478-PeCDF	31.56	2.358e5	1.520e5	1.008	1.55	1.55	1197.3	YES	NO	bb	db	44.907
4	Total-pentafurans	30.52	9.515e2	5.781e2	0.924	1.65	1.55	4.8	YES	NO	db	db	0.191
5	Total-pentafurans	30.42	2.022e3	1.293e3	0.924	1.56	1.55	11.6	YES	NO	dd	dd	0.414
6	12378-PeCDF	30.22	2.247e5	1.470e5	0.906	1.53	1.55	1136.3	YES	NO	bd	bd	47.001

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.19	1.655e5	1.415e5	0.992	1.17	1.24	1556.9	YES	NO	bb	bd	49.701
2	234678-HxCDF	36.17	2.042e5	1.690e5	1.101	1.21	1.24	1953.6	YES	NO	bb	bd	49.216
3	123678-HxCDF	35.31	2.101e5	1.730e5	1.019	1.21	1.24	1960.6	YES	NO	db	db	51.361
4	123478-HxCDF	35.17	2.027e5	1.667e5	1.045	1.22	1.24	1924.6	YES	NO	bd	bd	49.178
5	123468-HxCDF	33.51	2.094e5	1.693e5	1.156	1.24	1.24	1921.3	YES	NO	bb	bb	45.583

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.31	1.324e5	1.371e5	1.192	0.97	1.05	1377.9	YES	NO	bd	bd	47.744
2	Total-heptafurans	39.32	2.949e2	2.461e2	1.218	1.20	1.05	6.0	YES	NO	db	dd	0.084
3	1234678-HpCDF	39.03	1.635e5	1.677e5	1.243	0.97	1.05	1923.6	YES	NO	bd	bd	45.537

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

**ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.54	3.456e4	5.055e4	0.931	0.68	0.77	740.1	YES	NO	dd	dd	8.901
2	2378-TCDF	26.05	3.898e4	5.238e4	0.985	0.74	0.77	840.9	YES	NO	bd	db	9.038
3	1368-TCDF	22.53	4.608e4	6.201e4	1.300	0.74	0.77	1061.2	YES	NO	bb	bb	8.097
4	Total-pentafurans	29.06	3.718e4	2.426e4	0.924	1.53	1.55	191.3	YES	NO	bb	bb	7.680
5	12389-PECDF	32.60	2.197e5	1.421e5	0.860	1.55	1.55	1066.1	YES	NO	bd	bb	48.148
6	23478-PeCDF	31.56	2.358e5	1.520e5	1.008	1.55	1.55	1197.3	YES	NO	bb	db	44.907
7	Total-pentafurans	30.52	9.515e2	5.781e2	0.924	1.65	1.55	4.8	YES	NO	db	db	0.191
8	Total-pentafurans	30.42	2.022e3	1.293e3	0.924	1.56	1.55	11.6	YES	NO	dd	dd	0.414
9	12378-PeCDF	30.22	2.247e5	1.470e5	0.906	1.53	1.55	1136.3	YES	NO	bd	bd	47.001
10	123789-HxCDF	37.19	1.655e5	1.415e5	0.992	1.17	1.24	1556.9	YES	NO	bb	bd	49.701
11	234678-HxCDF	36.17	2.042e5	1.690e5	1.101	1.21	1.24	1953.6	YES	NO	bb	bd	49.216
12	123678-HxCDF	35.31	2.101e5	1.730e5	1.019	1.21	1.24	1960.6	YES	NO	db	db	51.361
13	123478-HxCDF	35.17	2.027e5	1.667e5	1.045	1.22	1.24	1924.6	YES	NO	bd	bd	49.178
14	123468-HXCDF	33.51	2.094e5	1.693e5	1.156	1.24	1.24	1921.3	YES	NO	bb	bb	45.583
15	1234789-HpCDF	41.31	1.324e5	1.371e5	1.192	0.97	1.05	1377.9	YES	NO	bd	bd	47.744
16	Total-heptafurans	39.32	2.949e2	2.461e2	1.218	1.20	1.05	6.0	YES	NO	db	dd	0.084
17	1234678-HpCDF	39.03	1.635e5	1.677e5	1.243	0.97	1.05	1923.6	YES	NO	bd	bd	45.537
18	OCDF	45.63	1.916e5	2.085e5	1.303	0.92	0.89	1677.1	YES	NO	bd	bd	75.108
19	13468-PECDF	27.39	3.433e5	2.291e5	1.308	1.50	1.55	7843.9	YES	NO	bb	bb	50.083

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.87	1.836e4	2.201e4	1.090	0.83	0.77	265.5	YES	NO	bd	bb	4.773
2	Total-tetradoxins	24.99	1.507e3	2.068e3	1.090	0.73	0.77	15.6	YES	NO	bb	bb	0.423
3	1368-TCDD	23.80	3.730e4	4.547e4	1.151	0.82	0.77	538.4	YES	NO	bb	bb	9.262
4	1289-TCDD	27.29	3.324e4	4.141e4	0.950	0.80	0.77	466.7	YES	NO	bb	bb	10.121
5	2378-TCDD	26.68	3.826e4	4.783e4	1.168	0.80	0.77	537.1	YES	NO	bb	bb	9.493
6	Total-tetradoxins	26.37	5.787e4	6.983e4	1.090	0.83	0.77	550.1	YES	NO	bd	bb	15.095

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.21	2.134e5	1.367e5	1.371	1.56	1.55	2102.2	YES	NO	bb	bb	49.482
2	12378-PeCDD	31.81	1.807e5	1.177e5	1.152	1.53	1.55	1780.5	YES	NO	bb	bb	50.196
3	12479-PECDD	29.08	3.141e5	1.990e5	2.164	1.58	1.55	1933.3	YES	NO	bb	bb	45.925

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

**ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk****HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.78	1.692e5	1.389e5	0.873	1.22	1.24	2194.1	YES	NO	bb	bb	55.250
2	123678-HxCDD	36.40	1.716e5	1.383e5	0.950	1.24	1.24	2226.7	YES	NO	db	db	50.240
3	123478-HxCDD	36.28	1.730e5	1.415e5	0.934	1.22	1.24	2206.3	YES	NO	bd	bd	53.583
4	Total-hexadioxins	35.05	2.562e2	2.312e2	0.978	1.11	1.24	4.1	YES	NO	bd	bb	0.078
5	124679-HXCDD	34.28	1.858e5	1.467e5	1.153	1.27	1.24	2281.0	YES	NO	bb	bb	45.908

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.49	1.613e5	1.482e5	1.473	1.09	1.05	1362.3	YES	NO	bd	bb	46.113
2	1234678-HpCDD	40.55	1.374e5	1.352e5	1.268	1.02	1.05	1081.3	YES	NO	bb	bd	47.193

**Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.87	1.836e4	2.201e4	1.090	0.83	0.77	265.5	YES	NO	bd	bb	4.773
2	Total-tetradioxins	24.99	1.507e3	2.068e3	1.090	0.73	0.77	15.6	YES	NO	bb	bb	0.423
3	1368-TCDD	23.80	3.730e4	4.547e4	1.151	0.82	0.77	538.4	YES	NO	bb	bb	9.262
4	1289-TCDD	27.29	3.324e4	4.141e4	0.950	0.80	0.77	466.7	YES	NO	bb	bb	10.121
5	2378-TCDD	26.68	3.826e4	4.783e4	1.168	0.80	0.77	537.1	YES	NO	bb	bb	9.493
6	Total-tetradioxins	26.37	5.787e4	6.983e4	1.090	0.83	0.77	550.1	YES	NO	bd	bb	15.095
7	12389-PECDD	32.21	2.134e5	1.367e5	1.371	1.56	1.55	2102.2	YES	NO	bb	bb	49.482
8	12378-PeCDD	31.81	1.807e5	1.177e5	1.152	1.53	1.55	1780.5	YES	NO	bb	bb	50.196
9	12479-PECDD	29.08	3.141e5	1.990e5	2.164	1.58	1.55	1933.3	YES	NO	bb	bb	45.925
10	123789-HxCDD	36.78	1.692e5	1.389e5	0.873	1.22	1.24	2194.1	YES	NO	bb	bb	55.250
11	123678-HxCDD	36.40	1.716e5	1.383e5	0.950	1.24	1.24	2226.7	YES	NO	db	db	50.240
12	123478-HxCDD	36.28	1.730e5	1.415e5	0.934	1.22	1.24	2206.3	YES	NO	bd	bd	53.583
13	Total-hexadioxins	35.05	2.562e2	2.312e2	0.978	1.11	1.24	4.1	YES	NO	bd	bb	0.078
14	124679-HXCDD	34.28	1.858e5	1.467e5	1.153	1.27	1.24	2281.0	YES	NO	bb	bb	45.908
15	1234679-HPCDD	39.49	1.613e5	1.482e5	1.473	1.09	1.05	1362.3	YES	NO	bd	bb	46.113
16	1234678-HpCDD	40.55	1.374e5	1.352e5	1.268	1.02	1.05	1081.3	YES	NO	bb	bd	47.193
17	OCDD	45.38	2.035e5	2.217e5	1.089	0.92	0.89	933.0	YES	NO	bd	bb	95.457

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

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Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.54	3.456e4	5.055e4	0.931	0.68	0.77	740.1	YES	NO	dd	dd	8.901
2	2378-TCDF	26.05	3.898e4	5.238e4	0.985	0.74	0.77	840.9	YES	NO	bd	db	9.038
3	1368-TCDF	22.53	4.608e4	6.201e4	1.300	0.74	0.77	1061.2	YES	NO	bb	bb	8.097
4	Total-pentafurans	29.06	3.718e4	2.426e4	0.924	1.53	1.55	191.3	YES	NO	bb	bb	7.680
5	12389-PECDF	32.60	2.197e5	1.421e5	0.860	1.55	1.55	1066.1	YES	NO	bd	bb	48.148
6	23478-PeCDF	31.56	2.358e5	1.520e5	1.008	1.55	1.55	1197.3	YES	NO	bb	db	44.907
7	Total-pentafurans	30.52	9.515e2	5.781e2	0.924	1.65	1.55	4.8	YES	NO	db	db	0.191
8	Total-pentafurans	30.42	2.022e3	1.293e3	0.924	1.56	1.55	11.6	YES	NO	dd	dd	0.414
9	12378-PeCDF	30.22	2.247e5	1.470e5	0.906	1.53	1.55	1136.3	YES	NO	bd	bd	47.001
10	123789-HxCDF	37.19	1.655e5	1.415e5	0.992	1.17	1.24	1556.9	YES	NO	bb	bd	49.701
11	234678-HxCDF	36.17	2.042e5	1.690e5	1.101	1.21	1.24	1953.6	YES	NO	bb	bd	49.216
12	123678-HxCDF	35.31	2.101e5	1.730e5	1.019	1.21	1.24	1960.6	YES	NO	db	db	51.361
13	123478-HxCDF	35.17	2.027e5	1.667e5	1.045	1.22	1.24	1924.6	YES	NO	bd	bd	49.178
14	123468-HXCDF	33.51	2.094e5	1.693e5	1.156	1.24	1.24	1921.3	YES	NO	bb	bb	45.583
15	1234789-HpCDF	41.31	1.324e5	1.371e5	1.192	0.97	1.05	1377.9	YES	NO	bd	bd	47.744
16	Total-heptafurans	39.32	2.949e2	2.461e2	1.218	1.20	1.05	6.0	YES	NO	db	dd	0.084
17	1234678-HpCDF	39.03	1.635e5	1.677e5	1.243	0.97	1.05	1923.6	YES	NO	bd	bd	45.537
18	OCDF	45.63	1.916e5	2.085e5	1.303	0.92	0.89	1677.1	YES	NO	bd	bd	75.108
19	13468-PECDF	27.39	3.433e5	2.291e5	1.308	1.50	1.55	7843.9	YES	NO	bb	bb	50.083
20	Total-tetradiioxins	25.87	1.836e4	2.201e4	1.090	0.83	0.77	265.5	YES	NO	bd	bb	4.773
21	Total-tetradiioxins	24.99	1.507e3	2.068e3	1.090	0.73	0.77	15.6	YES	NO	bb	bb	0.423
22	1368-TCDD	23.80	3.730e4	4.547e4	1.151	0.82	0.77	538.4	YES	NO	bb	bb	9.262
23	1289-TCDD	27.29	3.324e4	4.141e4	0.950	0.80	0.77	466.7	YES	NO	bb	bb	10.121
24	2378-TCDD	26.68	3.826e4	4.783e4	1.168	0.80	0.77	537.1	YES	NO	bb	bb	9.493
25	Total-tetradiioxins	26.37	5.787e4	6.983e4	1.090	0.83	0.77	550.1	YES	NO	bd	bb	15.095
26	12389-PECDD	32.21	2.134e5	1.367e5	1.371	1.56	1.55	2102.2	YES	NO	bb	bb	49.482
27	12378-PeCDD	31.81	1.807e5	1.177e5	1.152	1.53	1.55	1780.5	YES	NO	bb	bb	50.196
28	12479-PECDD	29.08	3.141e5	1.990e5	2.164	1.58	1.55	1933.3	YES	NO	bb	bb	45.925
29	123789-HxCDD	36.78	1.692e5	1.389e5	0.873	1.22	1.24	2194.1	YES	NO	bb	bb	55.250
30	123678-HxCDD	36.40	1.716e5	1.383e5	0.950	1.24	1.24	2226.7	YES	NO	db	db	50.240
31	123478-HxCDD	36.28	1.730e5	1.415e5	0.934	1.22	1.24	2206.3	YES	NO	bd	bd	53.583
32	Total-hexadiioxins	35.05	2.562e2	2.312e2	0.978	1.11	1.24	4.1	YES	NO	bd	bb	0.078
33	124679-HXCDD	34.28	1.858e5	1.467e5	1.153	1.27	1.24	2281.0	YES	NO	bb	bb	45.908
34	1234679-HPCDD	39.49	1.613e5	1.482e5	1.473	1.09	1.05	1362.3	YES	NO	bd	bb	46.113
35	1234678-HpCDD	40.55	1.374e5	1.352e5	1.268	1.02	1.05	1081.3	YES	NO	bb	bd	47.193
36	OCDD	45.38	2.035e5	2.217e5	1.089	0.92	0.89	933.0	YES	NO	bd	bb	95.457

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

**ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.12	2.699e4					1.9	NO		bd		
2	FUNCTION1 PFK	22.04	5.634e3					0.8	NO		bb		
3	FUNCTION1 PFK	21.91	1.448e3					0.4	NO		bb		
4	FUNCTION1 PFK	21.44	3.166e3					0.5	NO		bb		
5	FUNCTION1 PFK	21.16	4.455e3					1.2	NO		bb		
6	FUNCTION1 PFK	27.47	1.361e4					1.3	NO		db		
7	FUNCTION1 PFK	27.38	1.327e4					1.1	NO		bd		
8	FUNCTION1 PFK	27.23	1.838e3					0.5	NO		bb		
9	FUNCTION1 PFK	27.17	1.678e3					0.4	NO		bb		
10	FUNCTION1 PFK	27.05	3.045e3					0.5	NO		bb		
11	FUNCTION1 PFK	26.89	1.430e3					0.4	NO		bb		
12	FUNCTION1 PFK	26.83	2.940e4					1.6	NO		bb		
13	FUNCTION1 PFK	26.31	4.127e3					0.5	NO		bb		
14	FUNCTION1 PFK	26.00	2.285e4					1.5	NO		bb		
15	FUNCTION1 PFK	24.73	7.568e3					0.9	NO		bb		
16	FUNCTION1 PFK	23.81	1.753e4					1.5	NO		bb		
17	FUNCTION1 PFK	23.27	5.322e3					0.8	NO		bb		
18	FUNCTION1 PFK	23.10	9.745e3					1.1	NO		bb		
19	FUNCTION1 PFK	22.90	8.232e3					0.9	NO		bb		
20	FUNCTION1 PFK	22.30	2.137e4					1.5	NO		bb		
21	FUNCTION1 PFK	22.22	2.423e4					1.6	NO		db		
22	FUNCTION1 PFK	28.15	1.822e3					0.5	NO		bb		
23	FUNCTION1 PFK	27.71	8.350e3					1.0	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.31	1.655e3					1.2	NO		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

**ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk**

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

## PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.08	5.801e3					1.4	NO		bd		
2	FUNCTION5 PFK	44.00	8.305e2					0.5	NO		bb		
3	FUNCTION5 PFK	43.96	3.846e3					1.3	NO		bb		
4	FUNCTION5 PFK	43.88	3.537e3					1.4	NO		db		
5	FUNCTION5 PFK	43.86	1.278e3					0.6	NO		bd		
6	FUNCTION5 PFK	43.69	3.986e3					1.2	NO		db		
7	FUNCTION5 PFK	43.64	4.227e3					1.1	NO		bd		
8	FUNCTION5 PFK	43.56	1.478e3					0.8	NO		bb		
9	FUNCTION5 PFK	43.53	1.056e3					0.6	NO		bb		
10	FUNCTION5 PFK	45.00	4.583e3					1.2	NO		dd		
11	FUNCTION5 PFK	44.95	2.664e3					1.0	NO		dd		
12	FUNCTION5 PFK	44.90	4.023e3					1.2	NO		dd		
13	FUNCTION5 PFK	44.86	3.616e3					1.0	NO		bd		
14	FUNCTION5 PFK	44.79	4.607e3					1.5	NO		db		
15	FUNCTION5 PFK	44.73	2.073e3					0.9	NO		bd		
16	FUNCTION5 PFK	44.61	4.371e3					1.0	NO		bb		
17	FUNCTION5 PFK	44.56	4.817e2					0.5	NO		bb		
18	FUNCTION5 PFK	44.51	2.297e3					1.2	NO		db		
19	FUNCTION5 PFK	44.49	2.628e3					1.0	NO		bd		
20	FUNCTION5 PFK	44.41	4.701e3					1.3	NO		db		
21	FUNCTION5 PFK	44.36	9.062e3					1.8	NO		dd		
22	FUNCTION5 PFK	44.30	5.629e3					1.8	NO		bd		
23	FUNCTION5 PFK	44.19	2.713e3					1.1	NO		db		
24	FUNCTION5 PFK	44.15	2.518e3					0.8	NO		dd		
25	FUNCTION5 PFK	44.11	1.413e3					0.8	NO		dd		
26	FUNCTION5 PFK	46.18	2.345e3					1.0	NO		bb		
27	FUNCTION5 PFK	46.13	4.133e2					0.3	NO		db		
28	FUNCTION5 PFK	46.09	1.854e3					0.9	NO		bd		
29	FUNCTION5 PFK	45.97	1.007e4					1.9	NO		bb		
30	FUNCTION5 PFK	45.88	5.859e2					0.6	NO		bb		
31	FUNCTION5 PFK	45.81	1.506e3					0.7	NO		bb		
32	FUNCTION5 PFK	45.72	1.856e3					0.8	NO		bb		
33	FUNCTION5 PFK	45.60	3.582e3					0.9	NO		bb		
34	FUNCTION5 PFK	45.51	4.203e3					0.9	NO		db		
35	FUNCTION5 PFK	45.46	3.207e3					0.9	NO		bd		
36	FUNCTION5 PFK	45.39	1.611e3					0.7	NO		db		
37	FUNCTION5 PFK	45.36	6.205e3					1.5	NO		bd		



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

**ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk****PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION5 PFK	45.27	6.819e3					1.2	NO		bb		
39	FUNCTION5 PFK	45.16	3.066e3					1.4	NO		db		
40	FUNCTION5 PFK	45.13	8.763e3					1.9	NO		dd		
41	FUNCTION5 PFK	45.04	5.655e3					1.4	NO		dd		
42	FUNCTION5 PFK	46.39	6.539e3					2.0	NO		db		
43	FUNCTION5 PFK	46.35	3.206e3					1.6	NO		bd		
44	FUNCTION5 PFK	46.32	7.988e2					0.6	NO		db		
45	FUNCTION5 PFK	46.29	2.793e3					0.9	NO		bd		

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.05	8.469e1					2.3	NO		bb		0.000
2	FUNCTION1 HXCD...	22.83	8.726e1					2.0	NO		bb		0.000

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.65	7.816e1					1.6	NO		db		0.000
2	FUNCTION1 HPCD...	27.50	7.672e1					2.4	NO		dd		0.000
3	FUNCTION1 HPCD...	27.45	9.989e1					2.5	NO		bd		0.000
4	FUNCTION1 HPCD...	26.40	1.116e2					2.2	NO		bb		0.000
5	FUNCTION1 HPCD...	25.16	7.260e1					1.3	NO		bb		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.82	9.268e1					2.0	NO		bb		0.000
2	FUNCTION2 HPCD...	31.43	1.881e2					4.6	YES		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld

Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time

Printed: Friday, December 30, 2022 09:56:02 Pacific Standard Time

**ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk****ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.55	7.524e1					2.3	NO		bb		0.000
2	FUNCTION4 NCDPE	39.47	7.428e1					1.9	NO		bb		0.000

**ETHERS6**

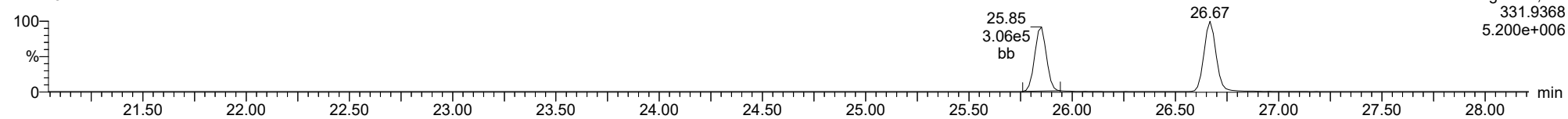
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.65	7.228e1					2.3	NO		bb		0.000

**Method:** T:\Autospec\Methods\Dioxin221219.mdb 19 Dec 2022 13:10:30  
**Calibration:** T:\Autospec\Curves\220323ICIH.cdb 24 Mar 2022 07:56:14

**ID:** CS3P3, **Name:** 22122824, **Date:** 29-Dec-2022, **Time:** 05:50:02, **Conditions:** AUTOSPEC01, **User:** pk

**13C-1234-TCDD**

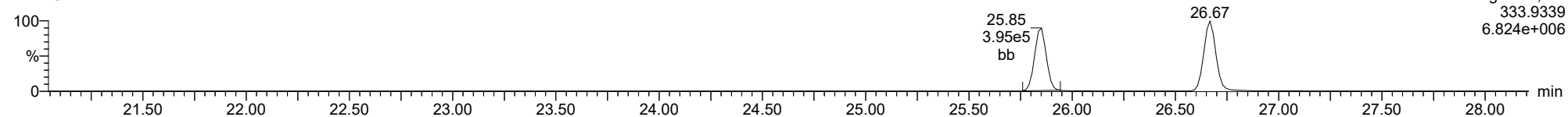
22122824



F1:Voltage SIR,El+  
331.9368  
5.200e+006

**13C-1234-TCDD**

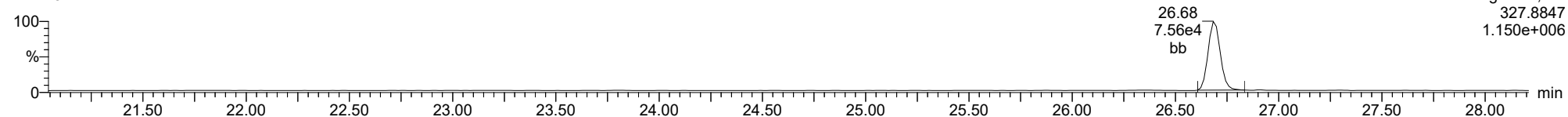
22122824



F1:Voltage SIR,El+  
333.9339  
6.824e+006

**37CL-2378-TCDD**

22122824

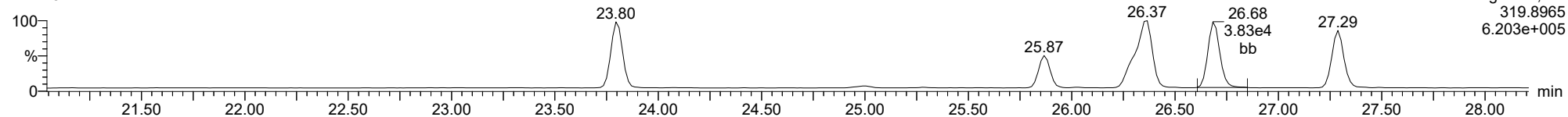


F1:Voltage SIR,El+  
327.8847  
1.150e+006

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

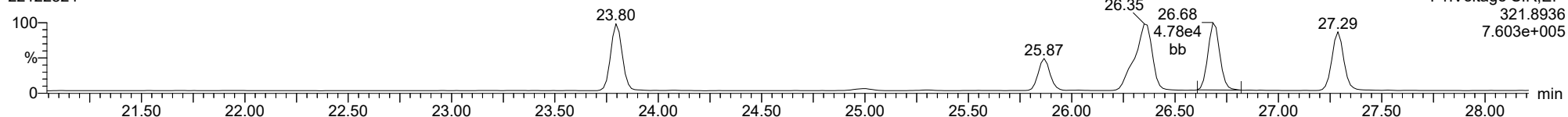
**2378-TCDD**

22122824



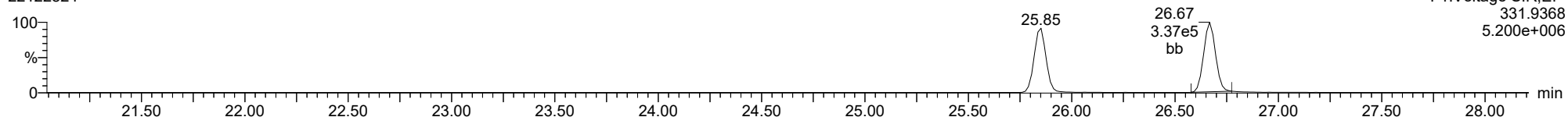
**2378-TCDD**

22122824



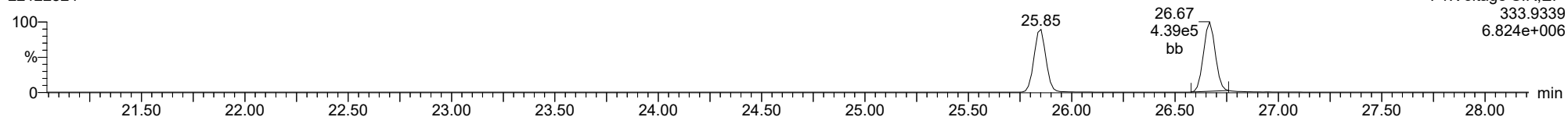
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22122824



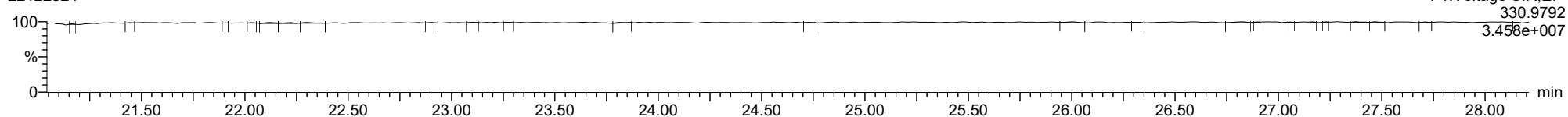
**13C-2378-TCDD**

22122824



**FUNCTION1 PFK**

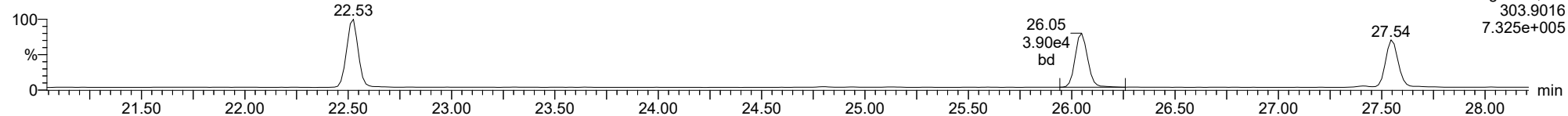
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

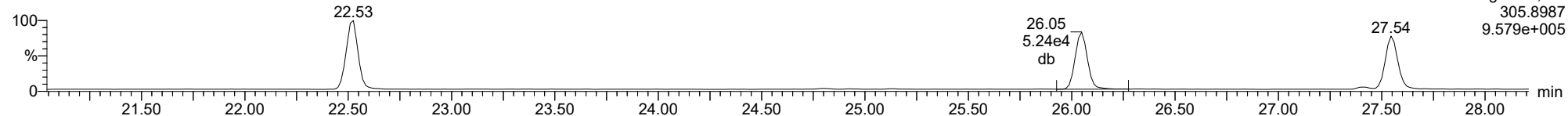
**2378-TCDF**

22122824



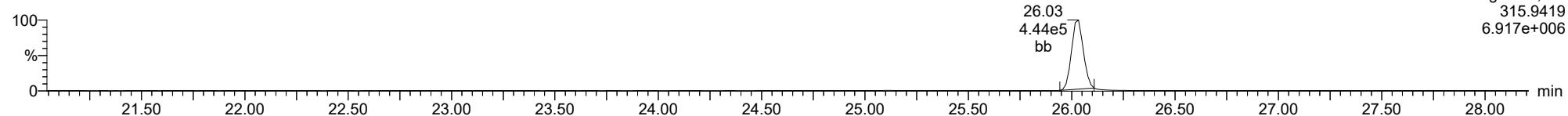
**2378-TCDF**

22122824



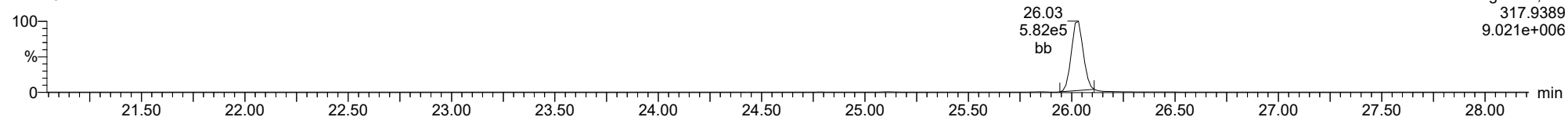
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22122824



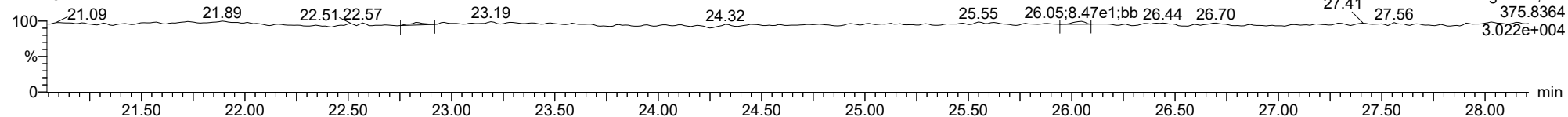
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22122824



**FUNCTION1 HXCDPE**

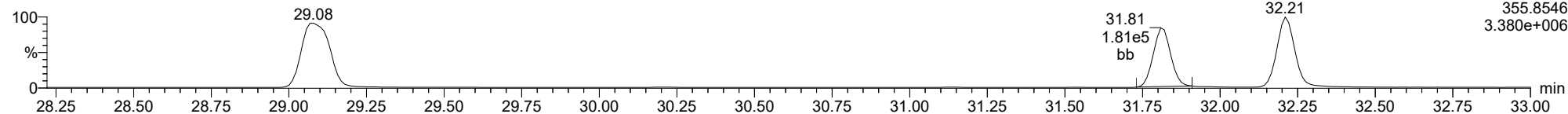
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

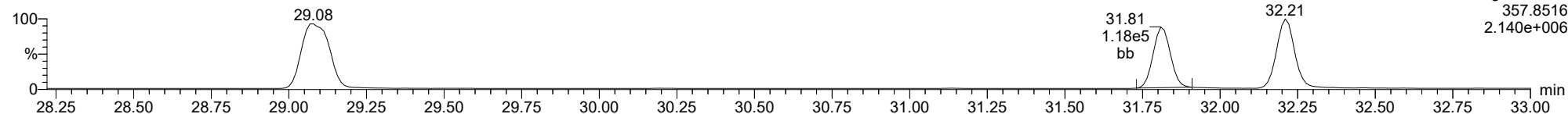
**12378-PeCDD**

22122824



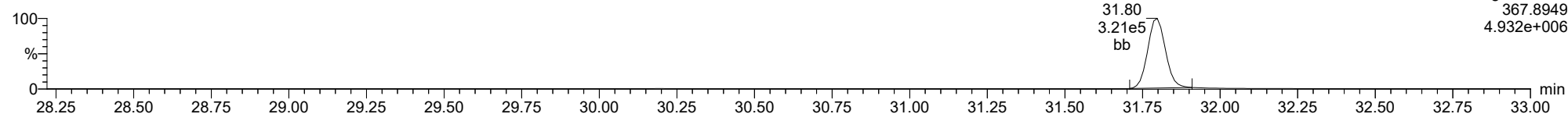
**12378-PeCDD**

22122824



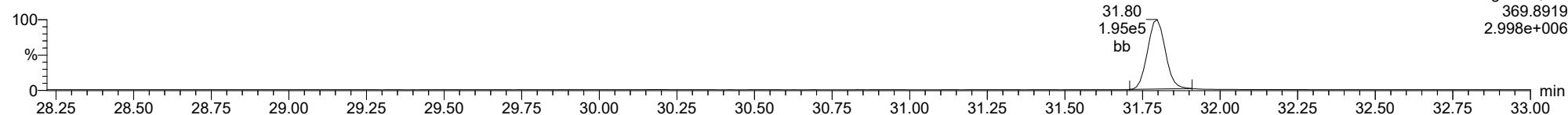
**13C-12378-PeCDD**

22122824



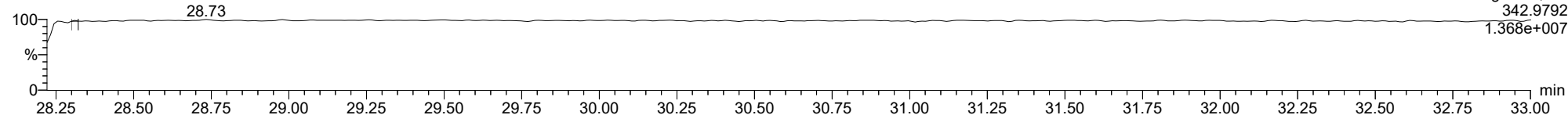
**13C-12378-PeCDD**

22122824



**FUNCTION2 PFK**

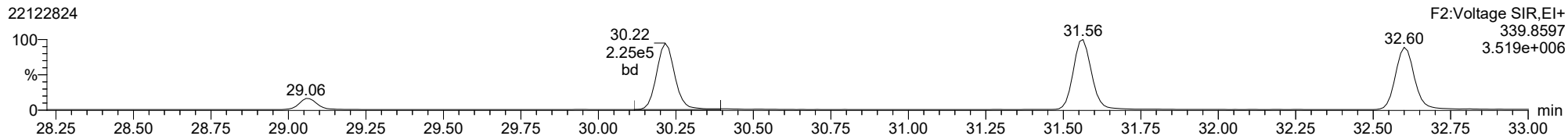
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

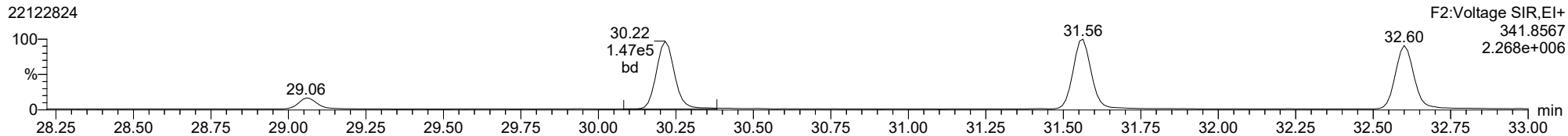
**12378-PeCDF**

22122824



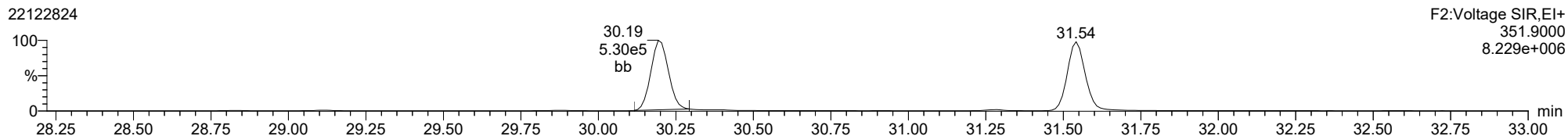
**12378-PeCDF**

22122824



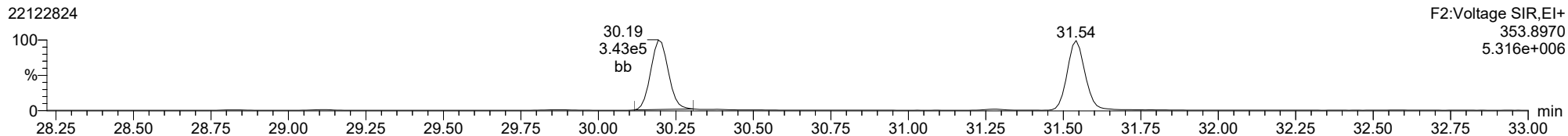
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22122824



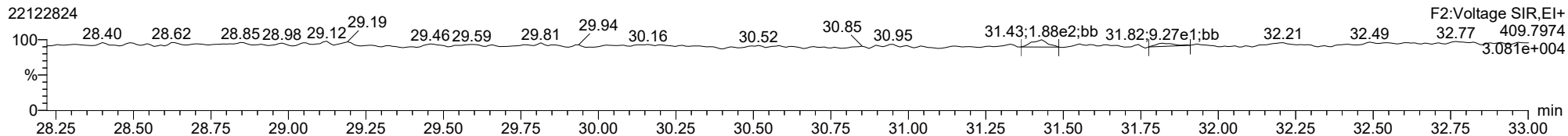
**13C-12378-PeCDF**

22122824



**FUNCTION2 HPCDPE**

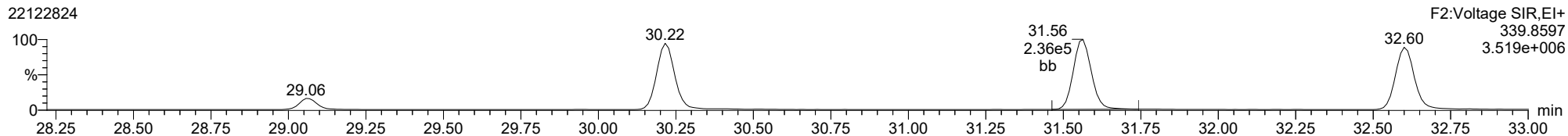
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

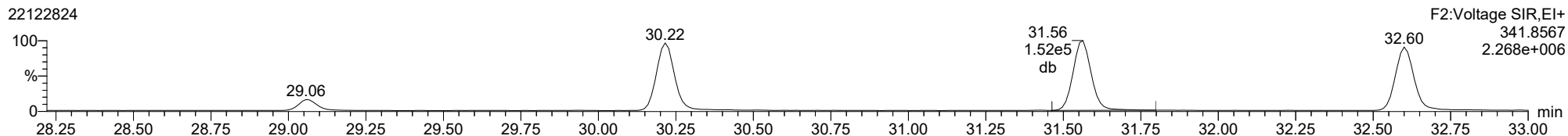
**23478-PeCDF**

22122824



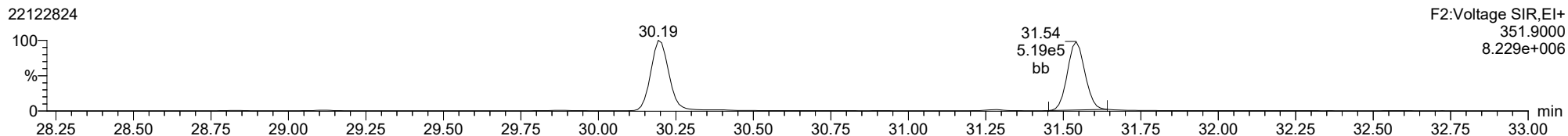
**23478-PeCDF**

22122824



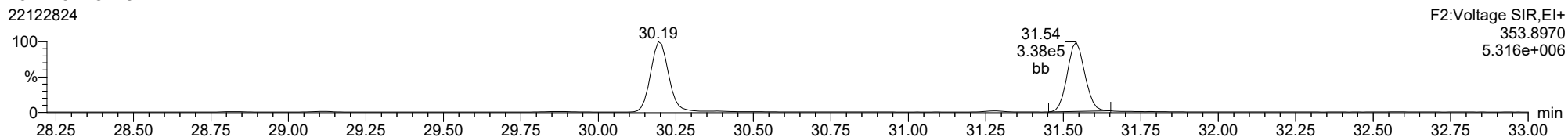
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22122824



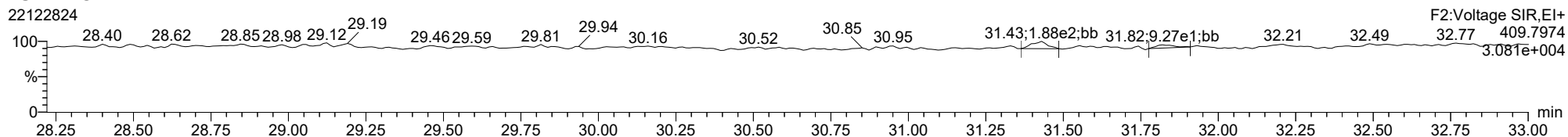
**13C-23478-PeCDF**

22122824



**FUNCTION2 HPCDPE**

22122824

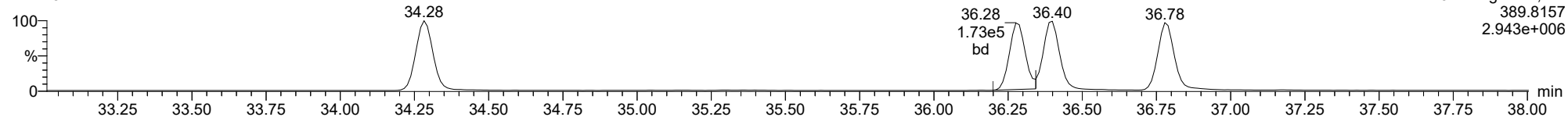




ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

**123478-HxCDD**

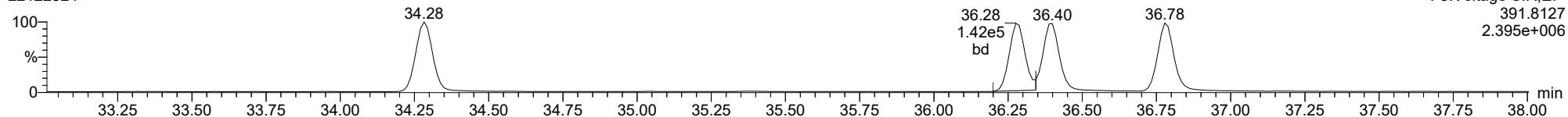
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F3:Voltage SIR,EI+  
389.8157  
2.943e+006

**123478-HxCDD**

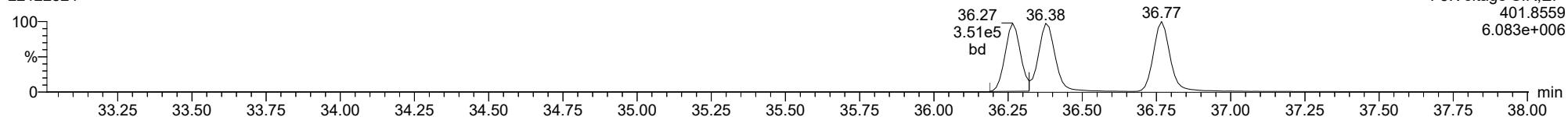
22122824



F3:Voltage SIR,EI+  
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2.395e+006

**13C-123478-HxCDD**

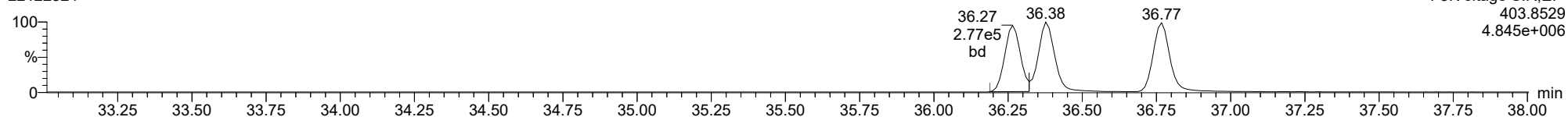
22122824



F3:Voltage SIR,EI+  
401.8559  
6.083e+006

**13C-123478-HxCDD**

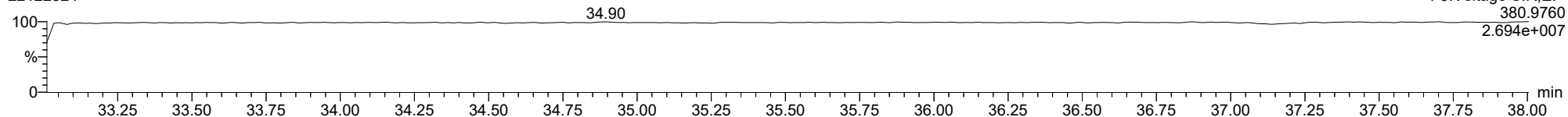
22122824



F3:Voltage SIR,EI+  
403.8529  
4.845e+006

**FUNCTION3 PFK**

22122824

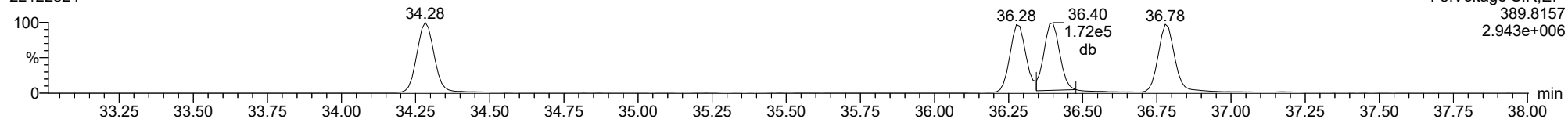


F3:Voltage SIR,EI+  
380.9760  
2.694e+007

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

**123678-HxCDD**

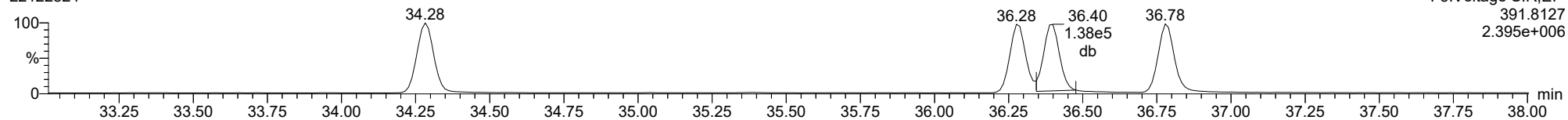
22122824



F3:Voltage SIR,EI+  
389.8157  
2.943e+006

**123678-HxCDD**

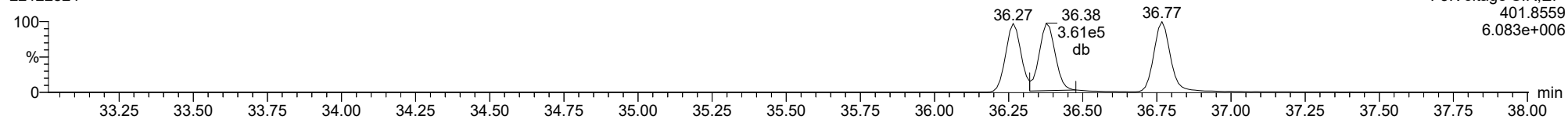
22122824



F3:Voltage SIR,EI+  
391.8127  
2.395e+006

**13C-123678-HxCDD**

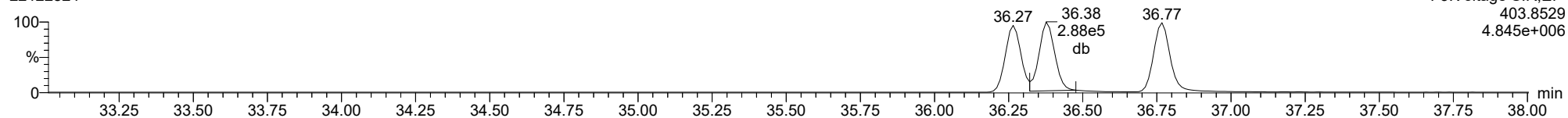
22122824



F3:Voltage SIR,EI+  
401.8559  
6.083e+006

**13C-123678-HxCDD**

22122824

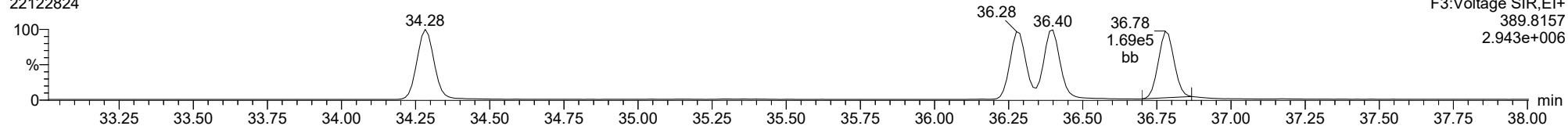


F3:Voltage SIR,EI+  
403.8529  
4.845e+006

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

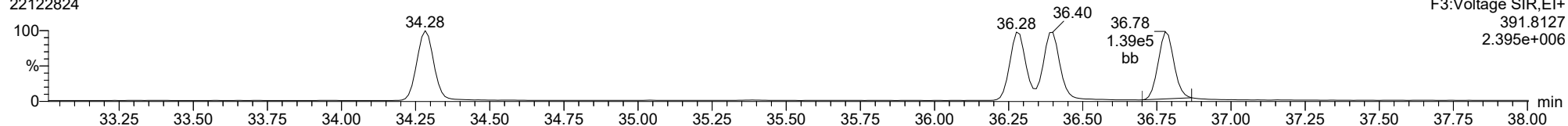
**123789-HxCDD**

22122824



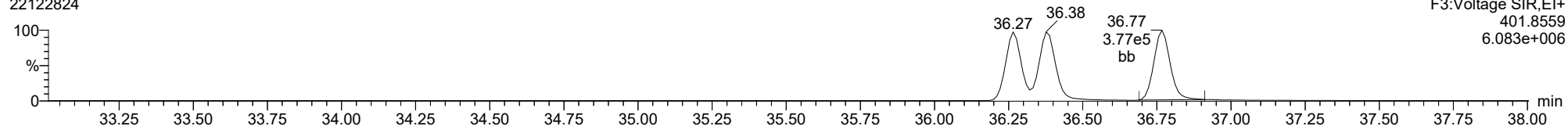
**123789-HxCDD**

22122824



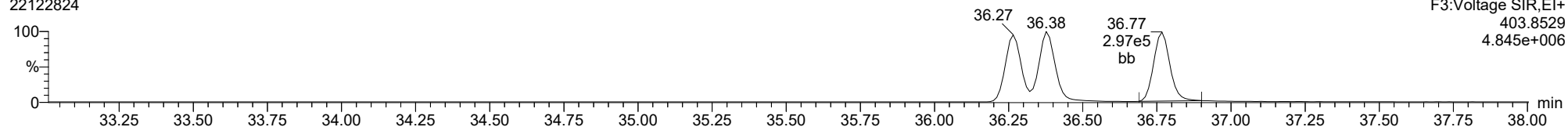
**13C-123789-HxCDD**

22122824



**13C-123789-HxCDD**

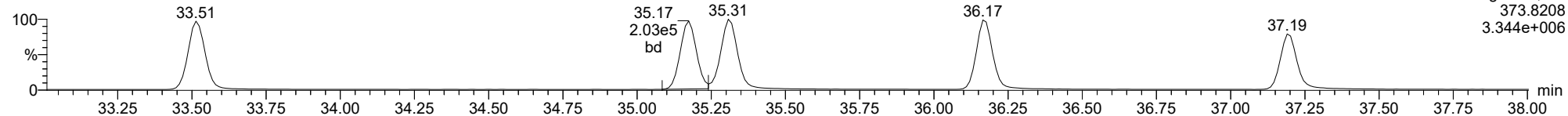
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

123478-HxCDF

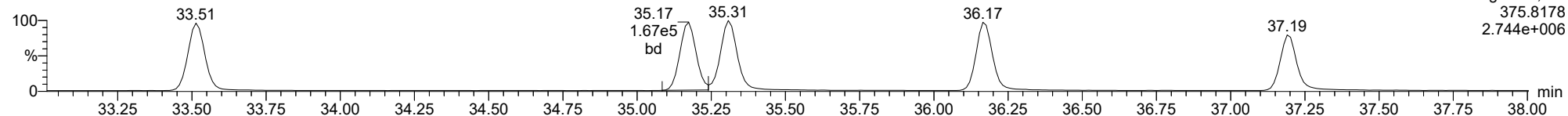
22122824



F3:Voltage SIR,EI+  
373.8208  
3.344e+006

123478-HxCDF

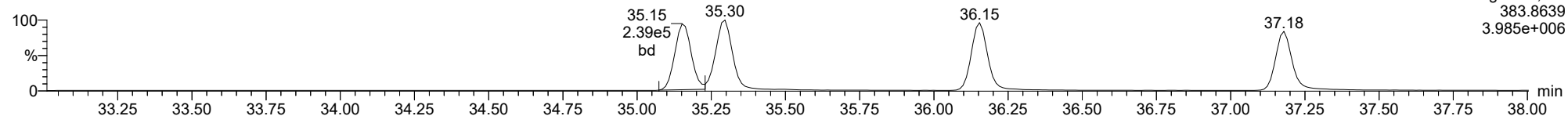
22122824



F3:Voltage SIR,EI+  
375.8178  
2.744e+006

13C-123478-HxCDF

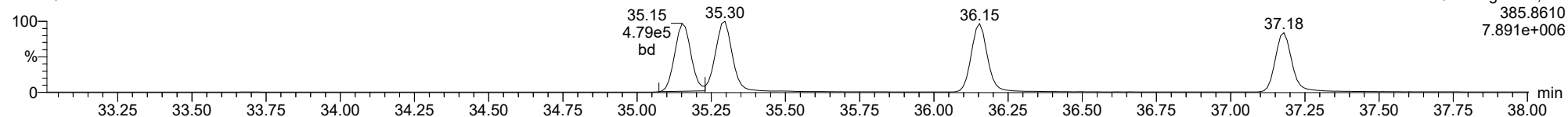
22122824



F3:Voltage SIR,EI+  
383.8639  
3.985e+006

13C-123478-HxCDF

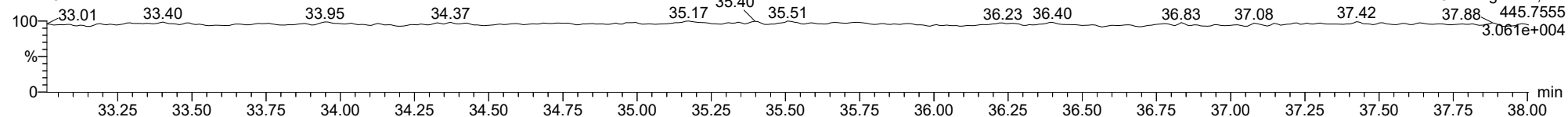
22122824



F3:Voltage SIR,EI+  
385.8610  
7.891e+006

FUNCTION3 OCDPE

22122824

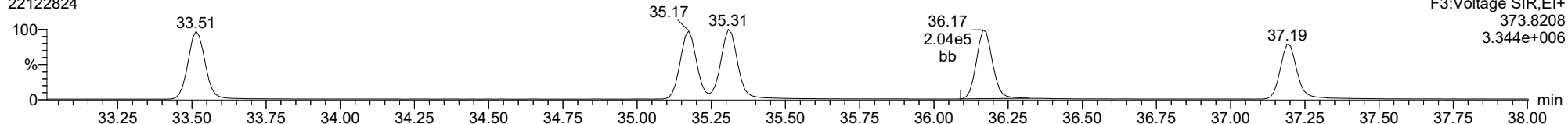


F3:Voltage SIR,EI+  
37.88 445.7555  
3.061e+004

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

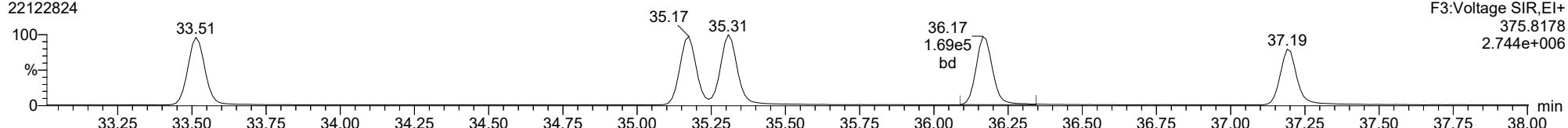
**234678-HxCDF**

22122824



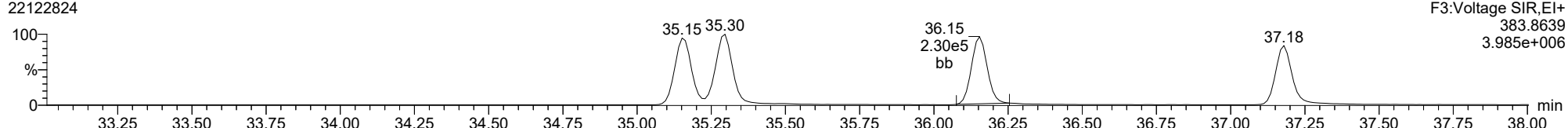
**234678-HxCDF**

22122824



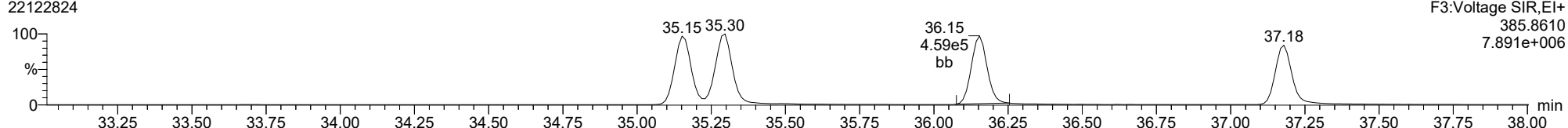
**13C-234678-HxCDF**

22122824



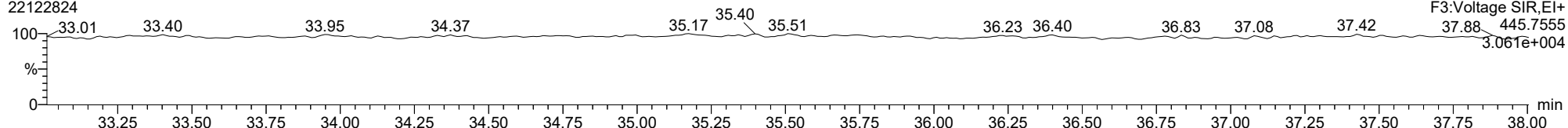
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22122824



**FUNCTION3 OCDPE**

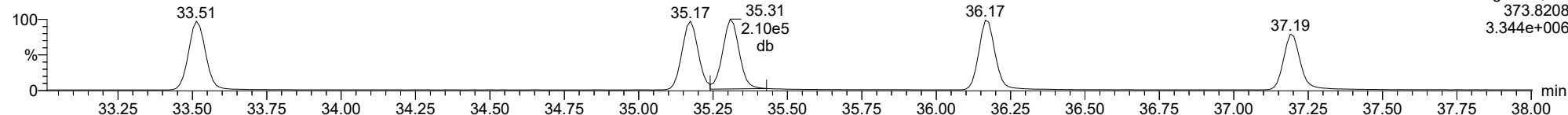
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

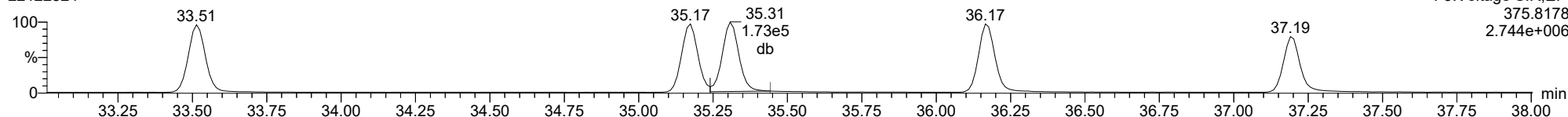
**123678-HxCDF**

22122824



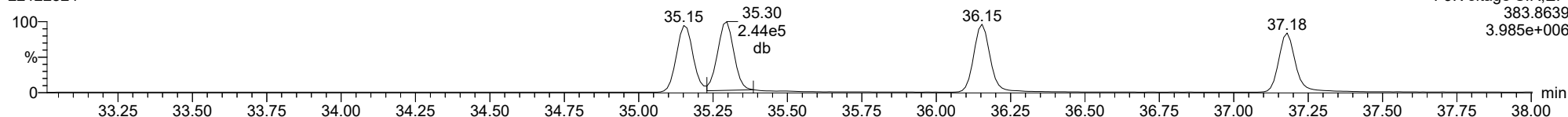
**123678-HxCDF**

22122824



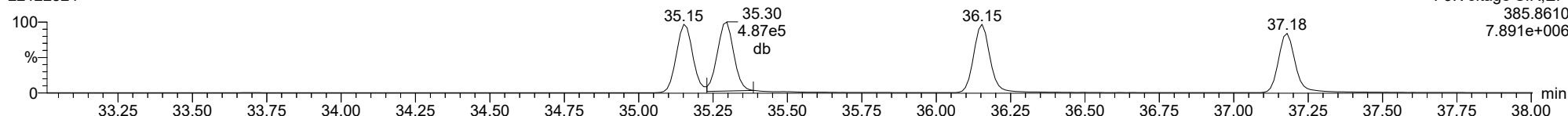
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22122824



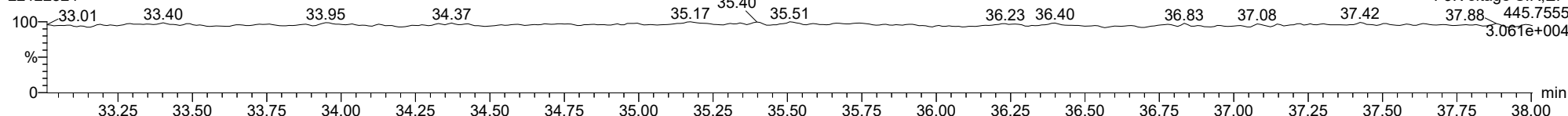
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22122824



**FUNCTION3 OCDPE**

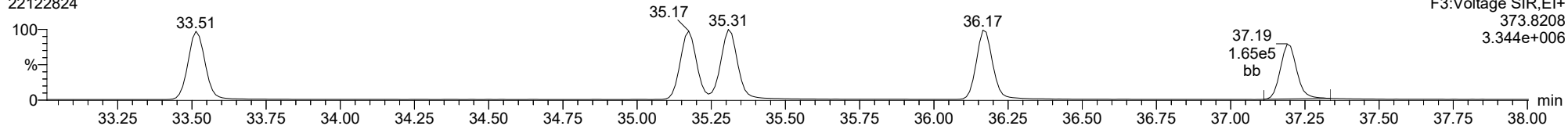
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

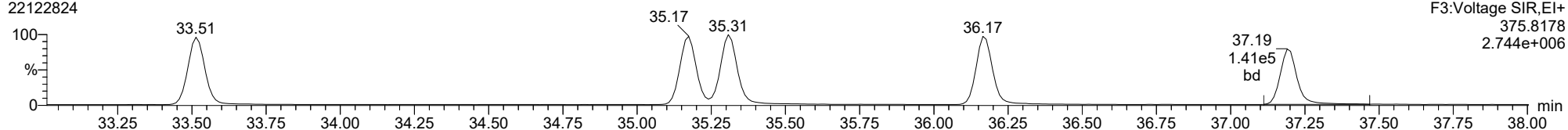
123789-HxCDF

22122824



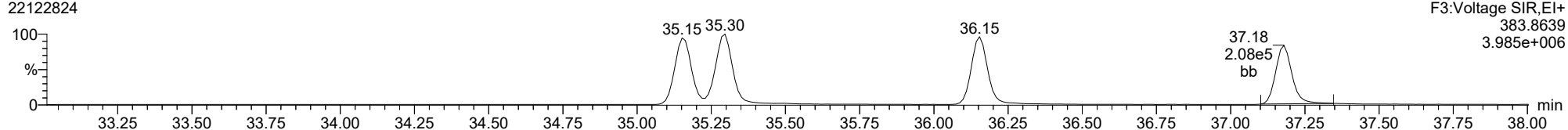
123789-HxCDF

22122824



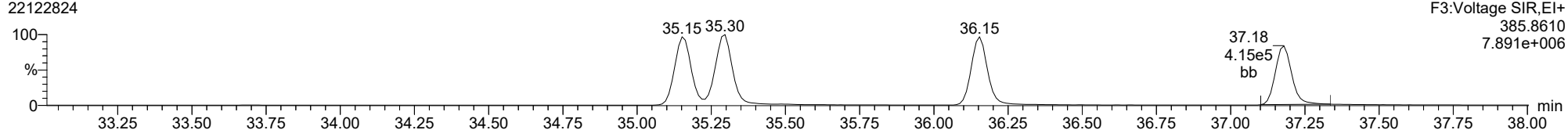
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22122824



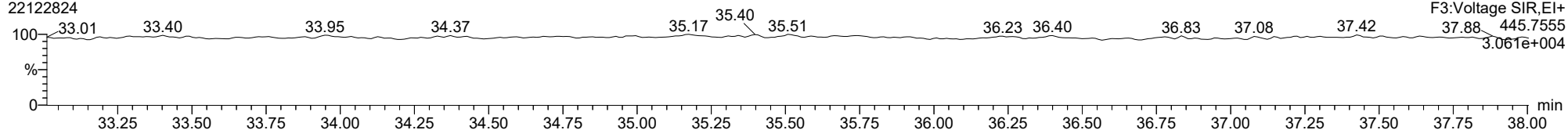
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22122824



FUNCTION3 OCDPE

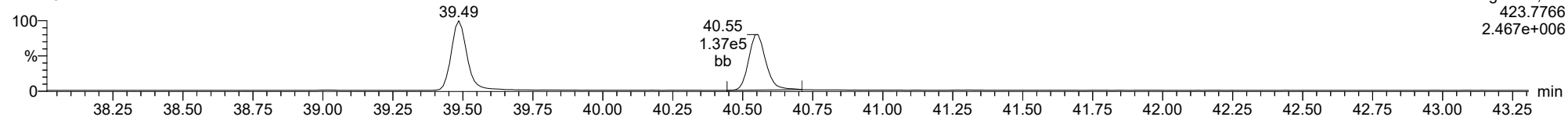
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

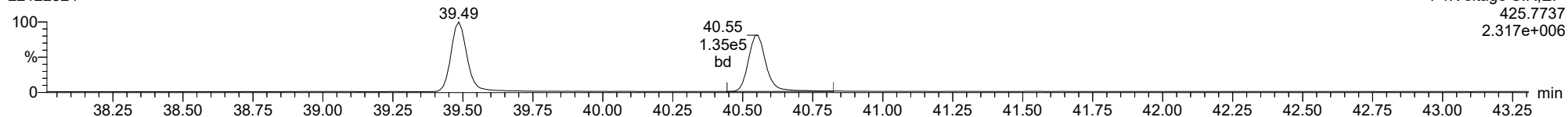
1234678-HpCDD

22122824



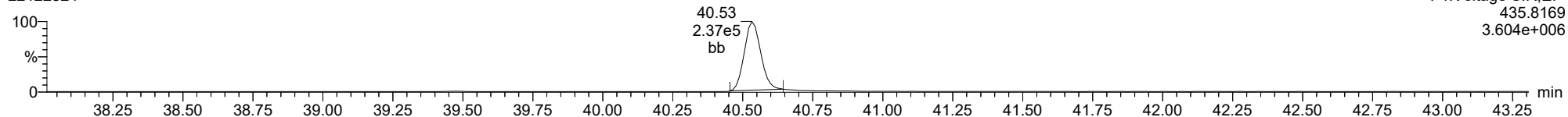
1234678-HpCDD

22122824



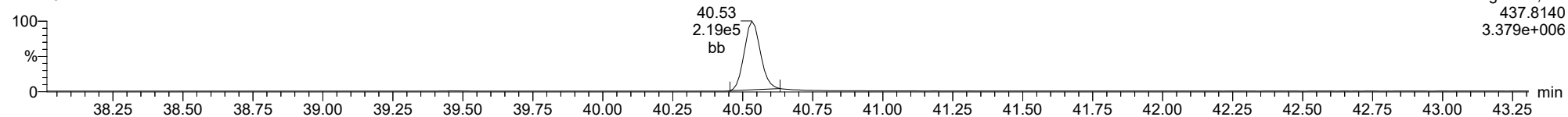
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22122824



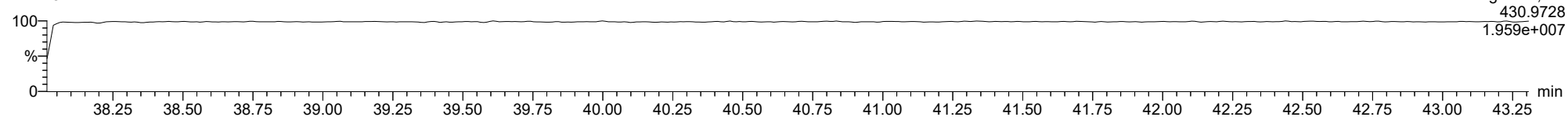
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22122824



FUNCTION4 PFK

22122824

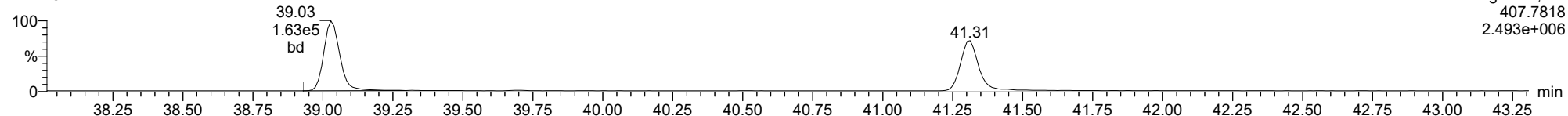




ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

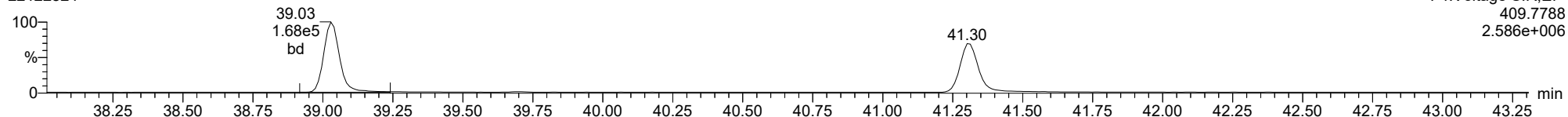
22122824



F4:Voltage SIR,El+  
407.7818  
2.493e+006

1234678-HpCDF

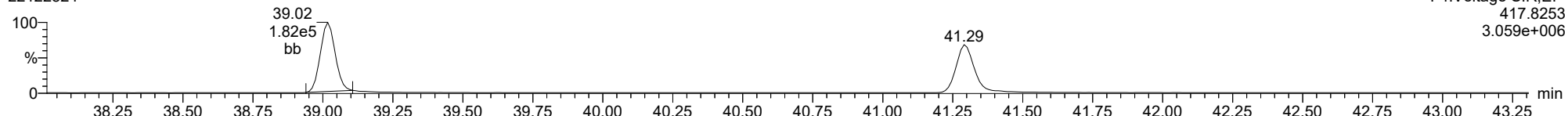
22122824



F4:Voltage SIR,El+  
409.7788  
2.586e+006

13C-1234678-HpCDF

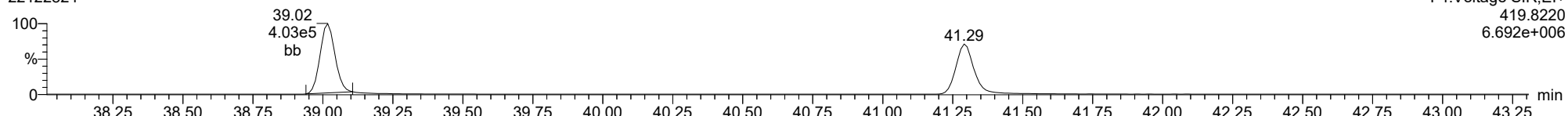
22122824



F4:Voltage SIR,El+  
417.8253  
3.059e+006

13C-1234678-HpCDF

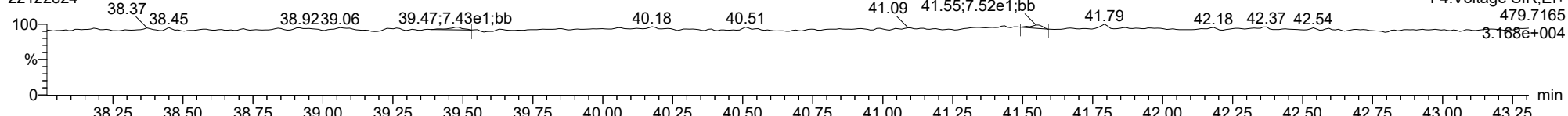
22122824



F4:Voltage SIR,El+  
419.8220  
6.692e+006

FUNCTION4 NCDPE

22122824

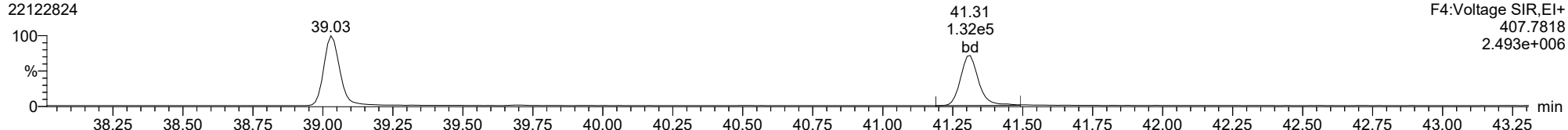


F4:Voltage SIR,El+  
479.7165  
3.168e+004

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

**1234789-HpCDF**

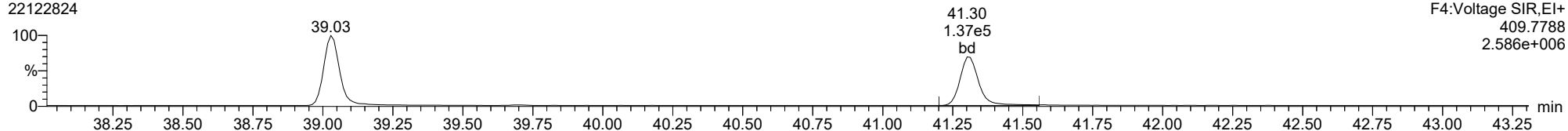
22122824



F4:Voltage SIR,El+  
407.7818  
2.493e+006

**1234789-HpCDF**

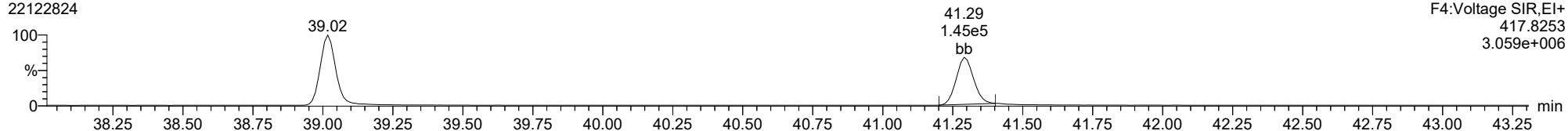
22122824



F4:Voltage SIR,El+  
409.7788  
2.586e+006

**13C-1234789-HpCDF**

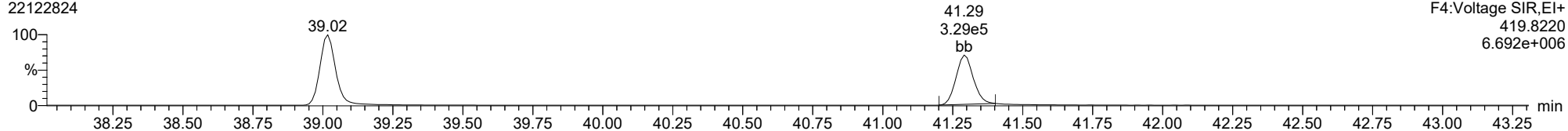
22122824



F4:Voltage SIR,El+  
417.8253  
3.059e+006

**13C-1234789-HpCDF**

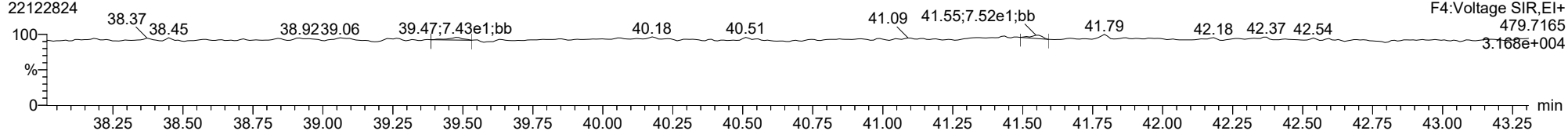
22122824



F4:Voltage SIR,El+  
419.8220  
6.692e+006

**FUNCTION4 NCDPE**

22122824

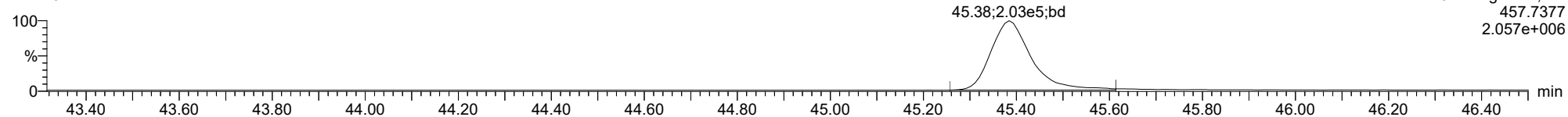


F4:Voltage SIR,El+  
479.7165  
3.168e+004

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

**OCDD**

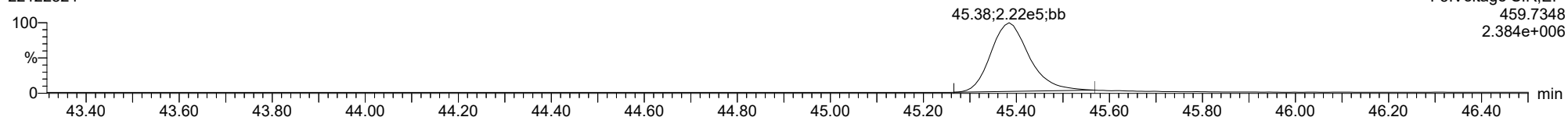
22122824



F5:Voltage SIR,EI+  
457.7377  
2.057e+006

**OCDD**

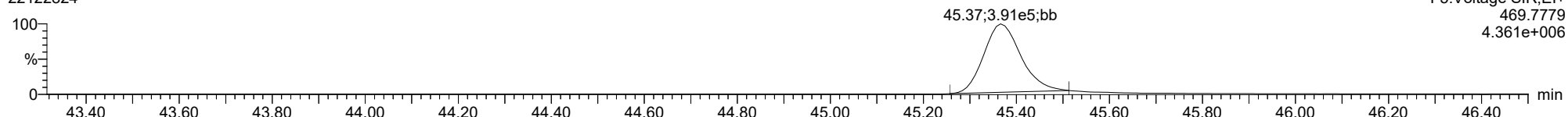
22122824



F5:Voltage SIR,EI+  
459.7348  
2.384e+006

**13C-OCDD**

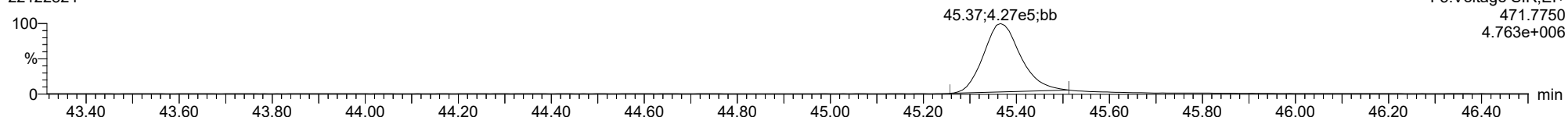
22122824



F5:Voltage SIR,EI+  
469.7779  
4.361e+006

**13C-OCDD**

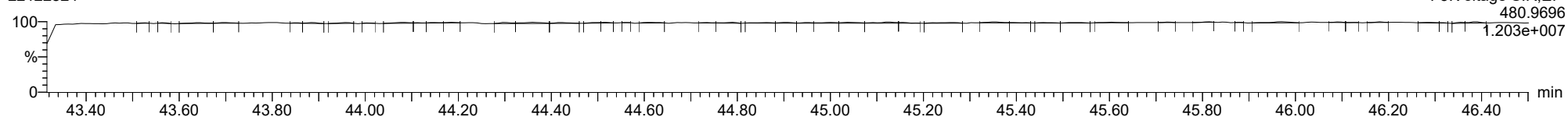
22122824



F5:Voltage SIR,EI+  
471.7750  
4.763e+006

**FUNCTION5 PFK**

22122824

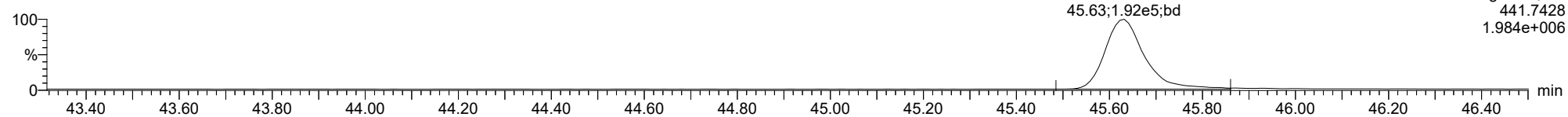


F5:Voltage SIR,EI+  
480.9696  
1.203e+007

ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

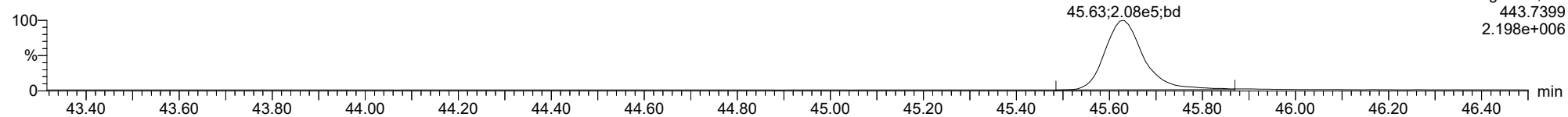
**OCDF**

22122824



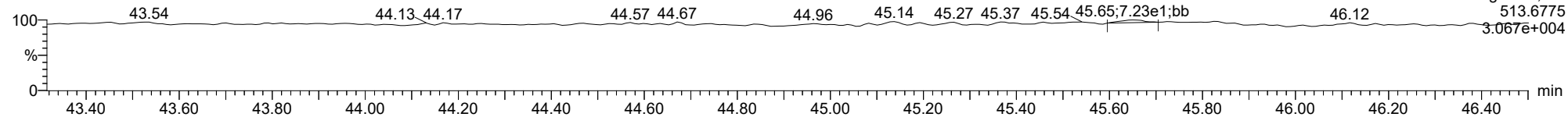
**OCDF**

22122824



**FUNCTION5 DCDPE**

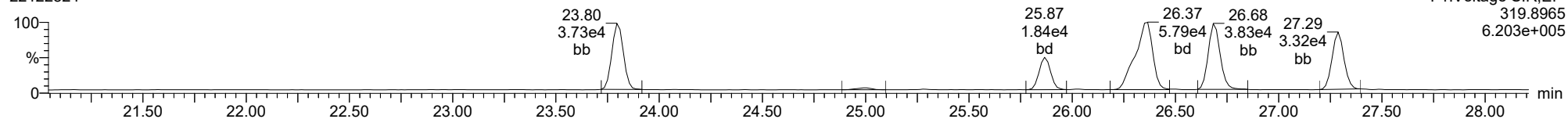
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

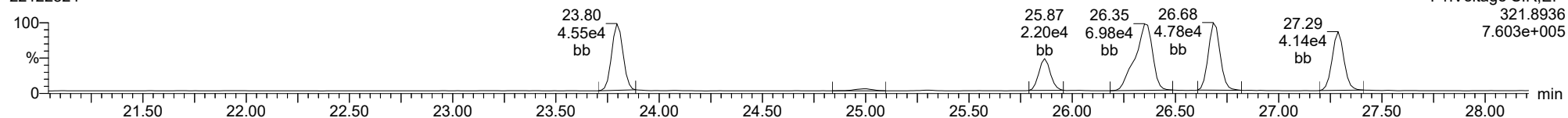
**Total-tetradoxins**

22122824



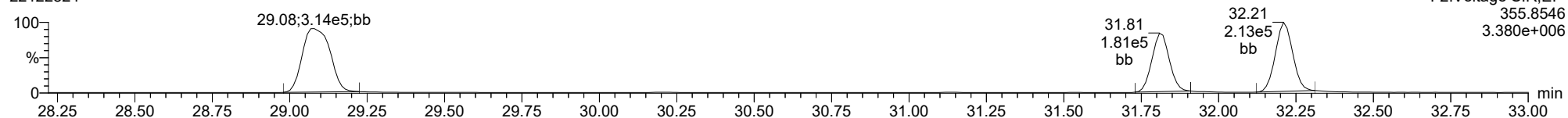
**Total-tetradoxins**

22122824



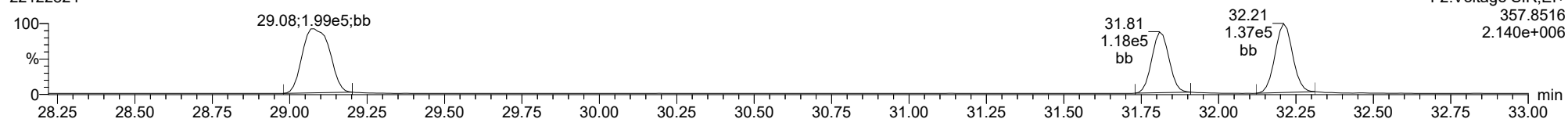
**Total-pentadoxins**

22122824



**Total-pentadoxins**

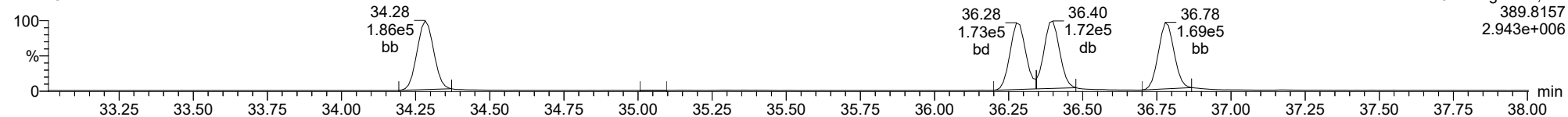
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

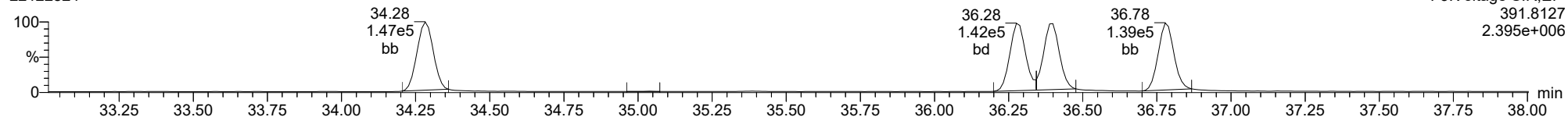
**Total-hexadioxins**

22122824



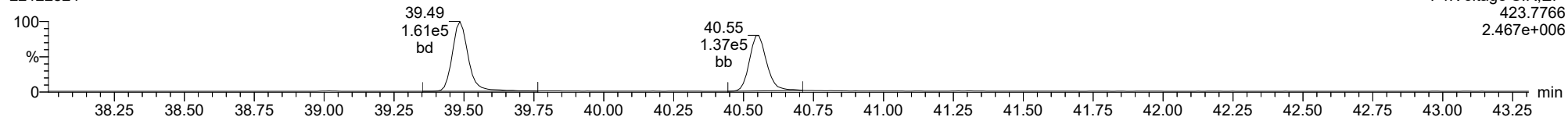
**Total-hexadioxins**

22122824



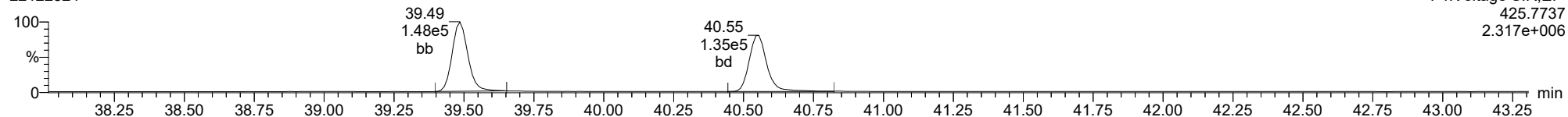
**Total-heptadioxins**

22122824



**Total-heptadioxins**

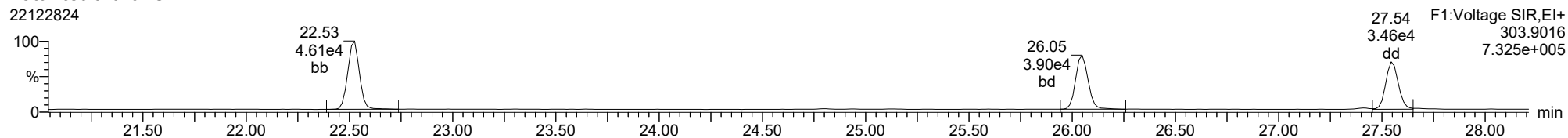
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

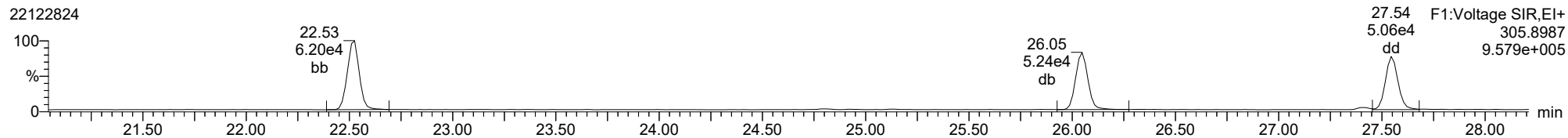
**Total-tetrafurans**

22122824



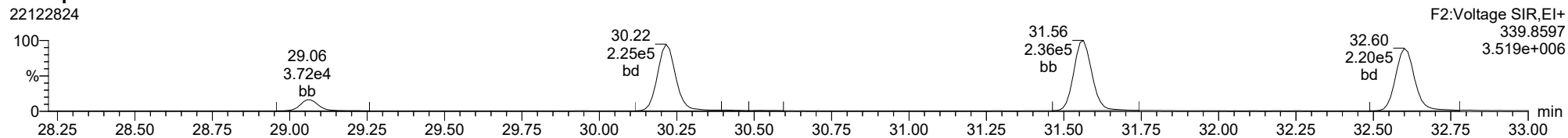
**Total-tetrafurans**

22122824



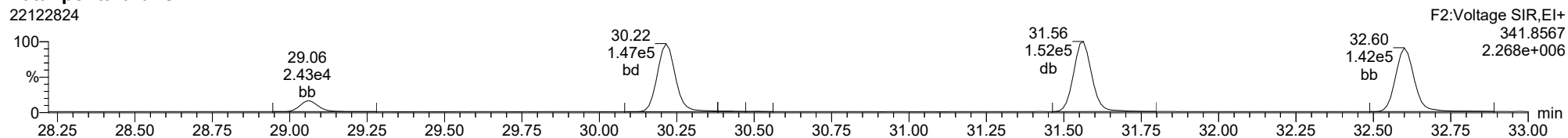
**Total-pentafurans**

22122824



**Total-pentafurans**

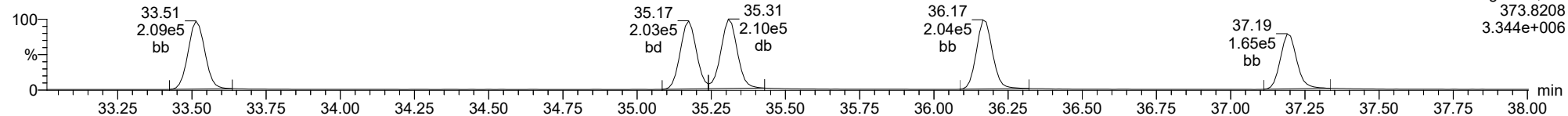
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ID: CS3P3, Name: 22122824, Date: 29-Dec-2022, Time: 05:50:02, Conditions: AUTOSPEC01, User: pk

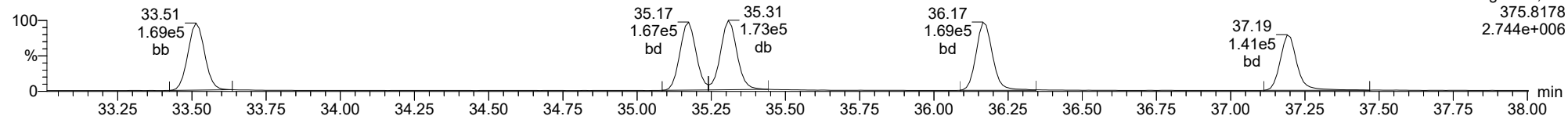
**Total-hexafurans**

22122824



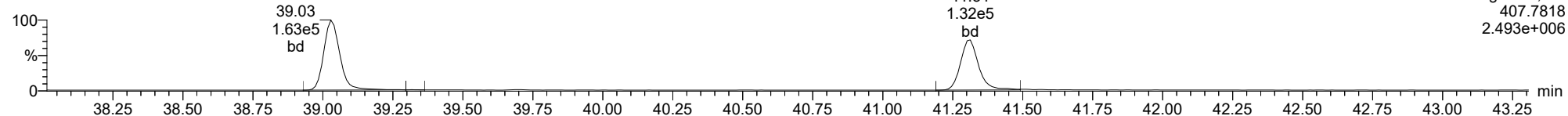
**Total-hexafurans**

22122824



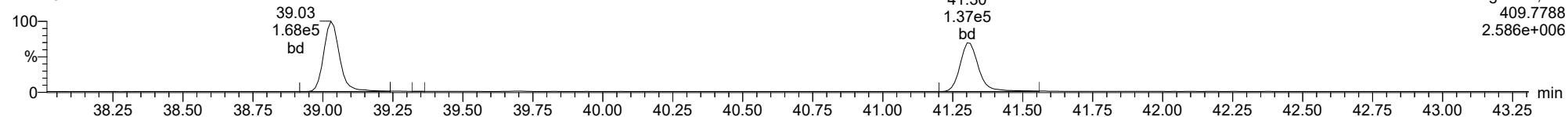
**Total-heptafurans**

22122824



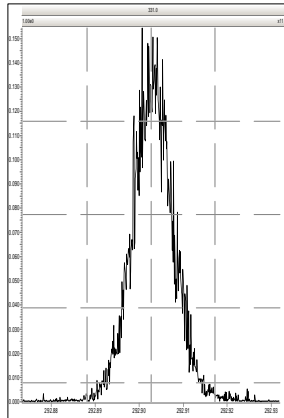
**Total-heptafurans**

22122824

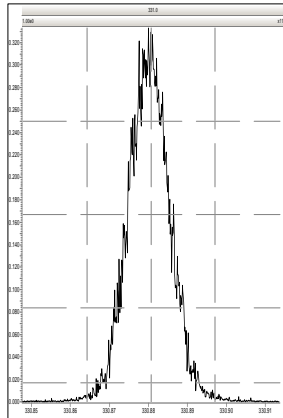




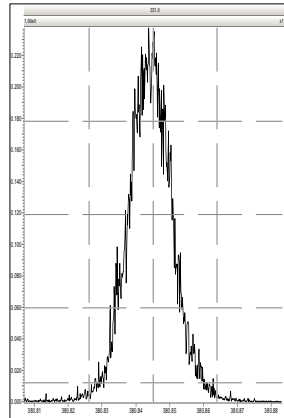
M 292.9824 R 13776



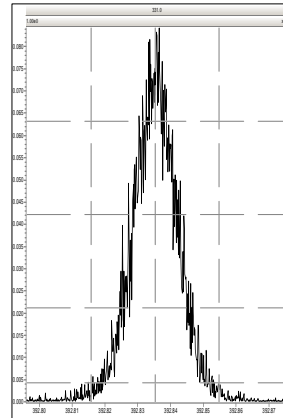
M 330.9792 R 13728



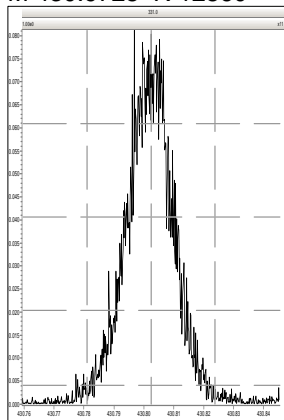
M 380.9760 R 12603



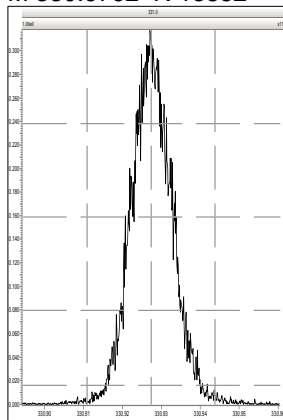
M 392.9760 R 12756



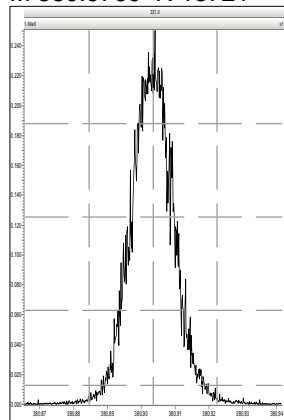
M 430.9728 R 12860



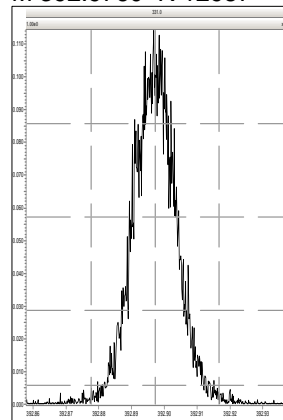
M 330.9792 R 13852



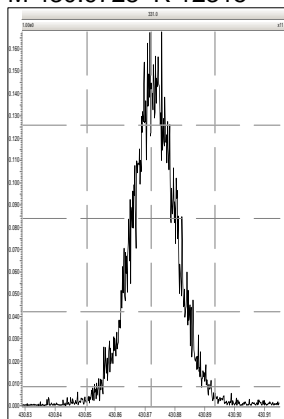
M 380.9760 R 13721



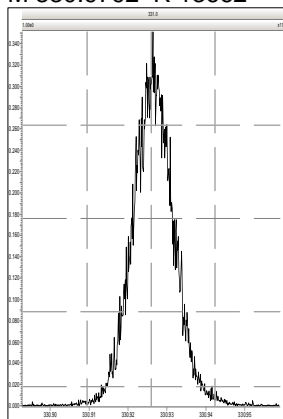
M 392.9760 R 12987



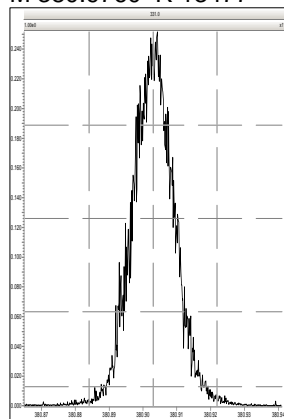
M 430.9728 R 12315



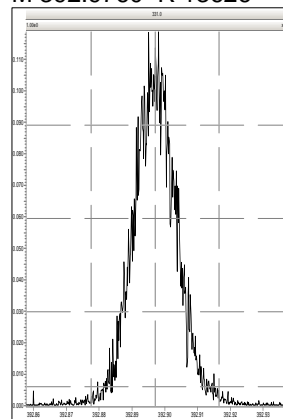
M 330.9792 R 13662



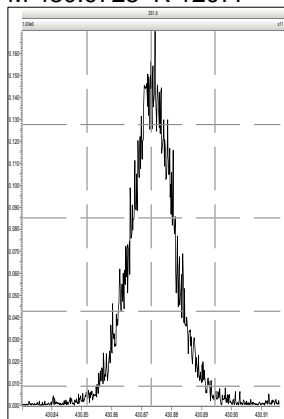
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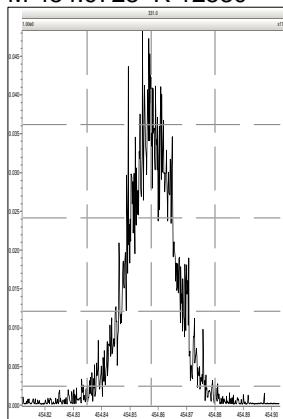
M 392.9760 R 13626



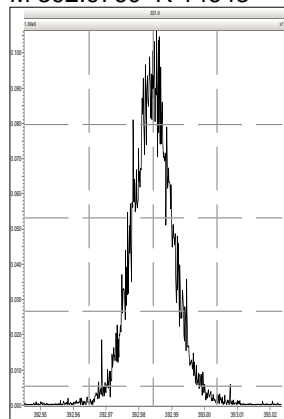
M 430.9728 R 12077



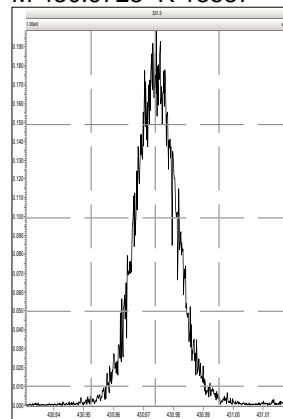
M 454.9728 R 12530



M 392.9760 R 14643

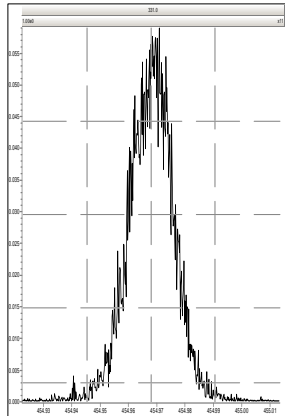


M 430.9728 R 13587

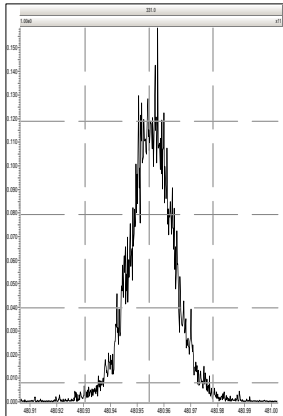


Printed: Thursday, December 29, 2022 06:43:53 Pacific Standard Time

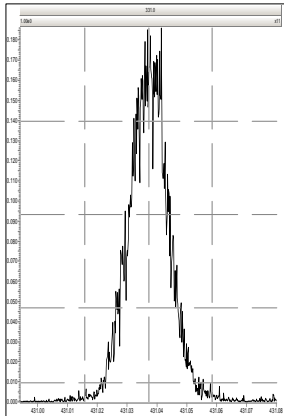
M 454.9728 R 14244



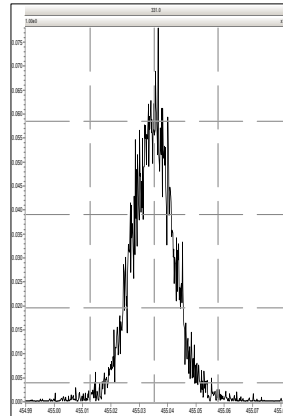
M 480.9696 R 12641



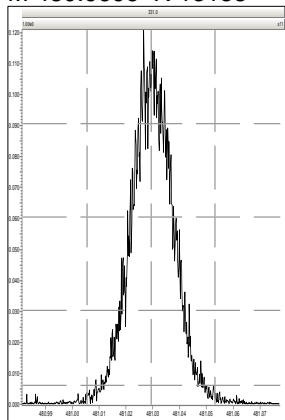
M 430.9728 R 13786



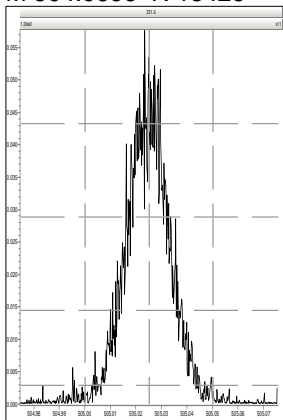
M 454.9728 R 13742



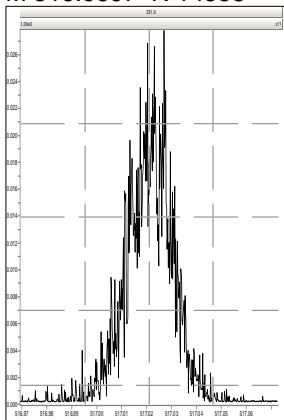
M 480.9696 R 13158



M 504.9696 R 13426



M 516.9697 R 14558

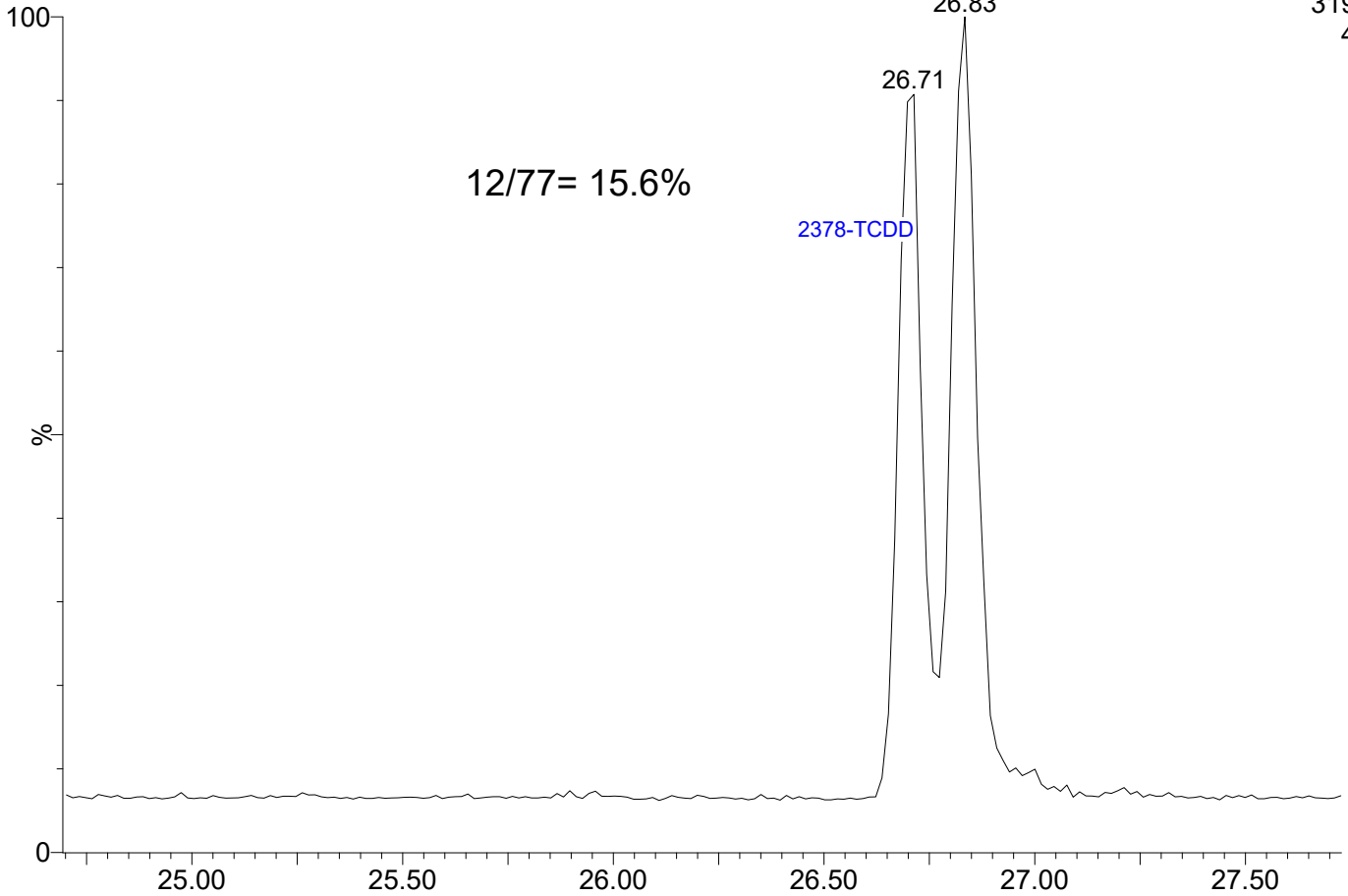


22122825

1: Voltage SIR 15 Channels EI+

319.8965

4.54e5

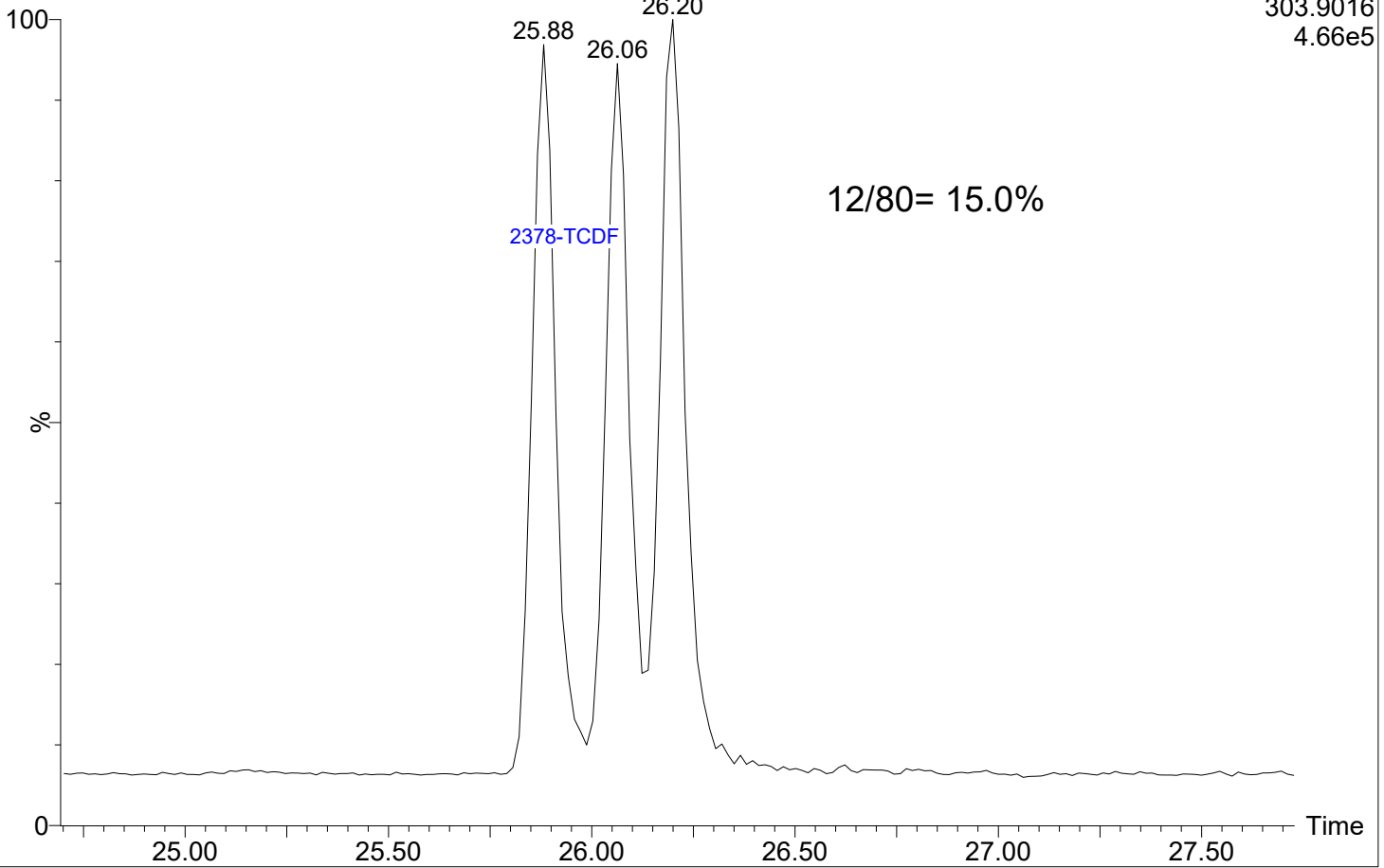


22122825

1: Voltage SIR 15 Channels EI+

303.9016

4.66e5





**CONTINUING CALIBRATION CHECK**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020134

Calibration Date: 02/01/2023

Sequence: SLA0009

Injection Date: 02/02/23

Lab Sample ID: SLA0009-CCV1

Injection Time: 16:23

Sequence Name: CS3R4

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.81	0.8760604	0.8597755		-1.9	+/-16
2,3,7,8-TCDD	A	10.000	8.99	1.2363600	1.1111530		-10.1	+/-22
1,2,3,7,8-PeCDF	A	50.000	48.2	0.8446540	0.8140835		-3.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	50.3	0.9111780	0.9171591		0.7	+/-18
1,2,3,7,8-PeCDD	A	50.000	51.1	1.0866850	1.1097720		2.1	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.3	1.1816860	1.1659750		-1.3	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	50.2	1.2480480	1.2523120		0.3	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	51.6	1.2288500	1.2689190		3.3	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	50.4	1.1865370	1.1952390		0.7	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.3	0.9869672	0.9924783		0.6	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	46.7	1.0207220	0.9543347		-6.5	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	50.2	0.9854780	0.9885557		0.3	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	46.0	1.2041190	1.1072510		-8.0	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	49.0	1.1653050	1.1421310		-2.0	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	46.2	1.2525690	1.1582280		-7.5	+/-14
OCDF	A	100.00	85.6	1.1862640	1.0148810		-14.4	+/-37
OCDD	A	100.00	93.2	1.1026670	1.0271510		-6.8	+/-21
13C12-2,3,7,8-TCDF	A	100.00	87.2	1.7680590	1.5415817		-12.8	+/-29
13C12-2,3,7,8-TCDD	A	100.00	103	1.1029470	1.1357732		3.0	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	93.1	1.5271250	1.4213921		-6.9	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	92.4	1.4662840	1.3549993		-7.6	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	90.1	0.9141518	0.8237691		-9.9	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	94.9	1.0536610	0.9999726		-5.1	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	96.9	1.0799530	1.0468066		-3.1	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	95.7	1.0143260	0.9710391		-4.3	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	97.9	0.9279333	0.9084758		-2.1	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	96.4	0.9329336	0.8993865		-3.6	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	104	0.9646272	0.9989255		3.6	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	94.8	1.0360890	0.9817915		-5.2	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	93.2	0.9049372	0.8429898		-6.8	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	97.8	0.7819773	0.7648404		-2.2	+/-28
13C12-OCDD	A	200.00	189	0.7882343	0.7454242		-5.4	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.03	1.2334500	1.1132946		-9.7	

\* Values outside of QC limits

**Quantify Sample Summary Report**      **MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:08:01 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33

**Calibration:** T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

**ID:** CS3R4, **Name:** 23020134, **Date:** 02-Feb-2023, **Time:** 16:23:40, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.867	1.001	6.560e4	8.728e4	0.876	0.752	0.770	1185	2220	9.43e5	1.26e6	796.0	568.7	NO	bb	bb	9.814
12378-PeCDF	30.026	1.000	4.072e5	2.602e5	0.845	1.565	1.550	2511	3599	6.10e6	3.98e6	2427.9	1106.2	NO	bb	bb	48.190
23478-PeCDF	31.363	1.000	4.315e5	2.852e5	0.911	1.513	1.550	2511	3599	6.27e6	4.14e6	2495.2	1149.6	NO	bd	bd	50.328
123478-HxCDF	34.973	1.000	3.677e5	2.910e5	1.182	1.263	1.240	3690	2618	5.72e6	4.52e6	1550.8	1724.8	NO	bd	bd	49.335
234678-HxCDF	35.976	1.001	3.871e5	3.090e5	1.229	1.253	1.240	3690	2618	5.72e6	4.63e6	1549.9	1768.9	NO	bb	bb	51.630
123678-HxCDF	35.118	1.001	4.060e5	3.345e5	1.248	1.214	1.240	3690	2618	5.71e6	4.68e6	1547.0	1786.0	NO	db	dd	50.171
123789-HxCDF	37.001	1.000	3.422e5	2.712e5	1.187	1.262	1.240	3690	2618	4.98e6	3.97e6	1350.5	1516.4	NO	bb	bb	50.367
1234678-HpCDF	38.828	1.000	3.016e5	3.125e5	1.204	0.965	1.050	2623	3008	4.94e6	4.88e6	1882.8	1621.8	NO	bb	bd	45.978
1234789-HpCDF	41.090	1.001	2.782e5	2.656e5	1.165	1.047	1.050	2623	3008	3.99e6	3.73e6	1521.6	1239.6	NO	bb	bd	49.006
OCDF	45.339	1.006	4.026e5	4.522e5	1.186	0.890	0.890	1276	2098	4.96e6	5.48e6	3886.0	2609.7	NO	bb	bb	85.553
2378-TCDD	26.517	1.001	6.445e4	8.111e4	1.236	0.795	0.770	1565	1204	9.82e5	1.24e6	627.5	1026.3	NO	bb	bb	8.987
12378-PeCDD	31.619	1.000	3.206e5	2.066e5	1.087	1.552	1.550	2350	2087	4.91e6	3.21e6	2088.0	1538.4	NO	bb	bb	51.062
123478-HxCDD	36.087	1.000	2.782e5	2.261e5	0.987	1.230	1.240	2329	4222	4.44e6	3.59e6	1904.2	849.8	NO	bd	bd	50.279
123678-HxCDD	36.209	1.001	2.956e5	2.430e5	1.021	1.217	1.240	2329	4222	4.59e6	3.75e6	1972.7	889.1	NO	db	db	46.748
123789-HxCDD	36.588	1.011	2.877e5	2.423e5	0.985	1.187	1.240	2329	4222	4.56e6	3.79e6	1956.2	896.9	NO	bb	bb	50.156
1234678-HpCDD	40.343	1.001	2.562e5	2.442e5	1.253	1.049	1.050	2228	2305	3.87e6	3.65e6	1739.0	1584.9	NO	bb	bb	46.234
OCDD	45.092	1.000	3.966e5	4.685e5	1.103	0.847	0.890	1729	3148	4.91e6	5.64e6	2841.0	1791.0	NO	bb	bd	93.152
13C-2378-TCDF	25.851	1.006	7.862e5	9.920e5	1.768	0.793	0.770	2734	2019	1.15e7	1.47e7	4213.5	7284.6	NO	bb	bb	87.191
13C-12378-PeCDF	30.015	1.169	1.010e6	6.296e5	1.527	1.604	1.550	4179	4206	1.47e7	9.44e6	3515.4	2243.3	NO	bd	bb	93.076
13C-23478-PeCDF	31.352	1.221	9.517e5	6.113e5	1.466	1.557	1.550	4179	4206	1.39e7	8.96e6	3332.3	2130.2	NO	bb	bb	92.410
13C-123478-HxCDF	34.962	0.956	3.839e5	7.459e5	1.054	0.515	0.510	2794	2285	6.19e6	1.20e7	2216.0	5243.2	NO	bd	bd	94.905
13C-123678-HxCDF	35.096	0.959	4.033e5	7.794e5	1.080	0.517	0.510	2794	2285	6.42e6	1.24e7	2299.2	5430.9	NO	db	db	96.931
13C-234678-HxCDF	35.953	0.983	3.757e5	7.213e5	1.014	0.521	0.510	2794	2285	6.08e6	1.18e7	2176.2	5151.6	NO	bb	bb	95.732
13C-123789-HxCDF	36.989	1.011	3.472e5	6.792e5	0.928	0.511	0.510	2794	2285	5.54e6	1.08e7	1983.2	4738.1	NO	bb	bb	97.903
13C-1234678-HpCDF	38.817	1.061	3.435e5	7.657e5	1.036	0.449	0.440	2944	3948	5.70e6	1.28e7	1935.9	3255.0	NO	bb	bb	94.759
13C-1234789-HpCDF	41.067	1.123	2.946e5	6.578e5	0.905	0.448	0.440	2944	3948	4.32e6	9.59e6	1468.7	2429.8	NO	bb	bb	93.155
13C-1234-TCDD	25.685	0.000	5.106e5	6.429e5	1.000	0.794	0.770	2383	1664	7.91e6	9.98e6	3317.3	5997.2	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.032	5.789e5	7.311e5	1.103	0.792	0.770	2383	1664	8.59e6	1.07e7	3603.6	6451.2	NO	bb	bb	102.976
13C-12378-PeCDD	31.608	1.231	5.877e5	3.625e5	0.914	1.622	1.550	1838	1227	8.74e6	5.34e6	4757.5	4354.8	NO	bb	bb	90.113
13C-123478-HxCDD	36.076	0.986	5.706e5	4.455e5	0.933	1.281	1.240	2112	2146	9.32e6	7.30e6	4413.8	3400.1	NO	bd	bd	96.404
13C-123678-HxCDD	36.187	0.989	6.305e5	4.981e5	0.965	1.266	1.240	2112	2146	9.44e6	7.66e6	4467.0	3567.8	NO	db	db	103.556
13C-1234678-HpCDD	40.321	1.102	4.483e5	4.158e5	0.782	1.078	1.050	2076	1991	7.12e6	6.50e6	3432.0	3265.7	NO	bb	bb	97.809
13C-OCDD	45.074	1.232	8.001e5	8.842e5	0.788	0.905	0.890	2862	2377	1.01e7	1.11e7	3516.0	4687.1	NO	bb	bb	189.138
13C-123789-HxCDD	36.577	0.000	6.276e5	5.022e5	1.000	1.250	1.240	2112	2146	9.68e6	7.82e6	4584.9	3645.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	1.284e5		1.233			1767		1.93e6		1091.3			bb		9.026

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:08:01 Pacific Standard Time

ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.374	0.865	7.850e4	1.055e5	1.064	0.744	0.770	1185	2220	1.24e6	1.66e6	1049.6	747.2	NO	bb	bb	9.723
1289-TCDF	27.378	1.059	6.420e4	8.894e4	0.858	0.722	0.770	1185	2220	9.29e5	1.20e6	783.8	541.5	NO	db	dd	10.042
13468-PECDF	27.227	0.907	5.240e5	3.475e5	1.013	1.508	1.550	1162	1733	7.89e6	5.26e6	6795.3	3032.5	NO	bb	bb	52.477
12389-PECDF	32.410	1.080	3.936e5	2.565e5	0.844	1.534	1.550	2511	3599	5.54e6	3.63e6	2204.6	1008.9	NO	bb	bb	47.001
123468-HXCDF	33.324	0.953	3.831e5	3.047e5	1.197	1.257	1.240	3690	2618	5.51e6	4.41e6	1493.4	1684.6	NO	bb	bd	50.850
1368-TCDD	23.644	0.892	5.983e4	7.512e4	1.084	0.796	0.770	1565	1204	9.47e5	1.22e6	605.2	1013.6	NO	bb	bb	9.500
1289-TCDD	27.122	1.023	5.574e4	6.808e4	0.975	0.819	0.770	1565	1204	7.73e5	9.60e5	493.8	797.5	NO	bd	bb	9.693
12479-PECDD	28.912	0.915	5.397e5	3.534e5	1.837	1.527	1.550	2350	2087	5.07e6	3.31e6	2156.1	1585.5	NO	bb	bb	51.160
12389-PECDD	32.021	1.013	3.709e5	2.376e5	1.252	1.561	1.550	2350	2087	5.43e6	3.43e6	2309.2	1643.0	NO	bb	bb	51.131
124679-HXCDD	34.093	0.945	2.932e5	2.430e5	1.033	1.206	1.240	2329	4222	4.55e6	3.73e6	1954.3	883.4	NO	bb	bb	51.086
1234679-HPCDD	39.285	0.974	2.833e5	2.647e5	1.286	1.070	1.050	2228	2305	4.38e6	4.21e6	1968.0	1824.9	NO	bd	bb	49.312
Total-tetrafurans			2.093e5		0.933			1185		3.13e6							29.715
Total-penta1			5.240e5					1162		7.89e6							52.477
Total-pentafurans			1.300e6		0.866			2511		1.89e7							153.667
Total-hexafurans			1.886e6		1.208			3690		2.76e7							252.353
Total-heptafurans			5.813e5		1.185			2623		8.95e6							95.211
Total-Furans			4.903e6		1.067			1185		7.15e7							668.976
Total-tetradoxins			3.063e5		1.099			1565		4.12e6							47.841
Total-pentadoxins			1.231e6		1.392			2350		1.54e7							153.380
Total-hexadoxins			1.155e6		1.007			2329		1.81e7							198.294
Total-heptadoxins			5.395e5		1.269			2228		8.26e6							95.546
Total-Dioxins			3.629e6		1.165			1565		5.08e7							588.212
Total-TEQ			8.532e6					1565		1.22e8							1257.187
FUNCTION1 PFK			1.452e6					998567		4.09e7							
FUNCTION2 PFK			3.366e5					545277		8.64e6							0.000
FUNCTION3 PFK			6.767e6					512257		1.31e7							0.000
FUNCTION4 PFK			2.150e5					374885		6.69e6							
FUNCTION5 PFK			0.000e0					189386		0.00e0							
FUNCTION1 HXCD...			1.465e3					929		2.21e4							0.000
FUNCTION1 HPCD...			1.536e3					1070		2.56e4							0.000
FUNCTION2 HPCD...			1.136e3					1454		2.30e4							0.000
FUNCTION3 OCDPE			1.453e3					746		2.71e4							0.000
FUNCTION4 NCDPE			6.800e2					936		1.06e4							0.000
FUNCTION5 DCDPE			7.253e1					876		1.67e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

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**Method: T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33****Calibration: T:\Autospec\Curves\230201CIH.cdb 03 Feb 2023 10:33:40****ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.420e4	8.894e4	0.858	0.72	0.77	783.8	YES	NO	db	dd	10.042
2	2378-TCDF	25.87	6.560e4	8.728e4	0.876	0.75	0.77	796.0	YES	NO	bb	bb	9.814
3	Total-tetrafurans	24.96	5.362e2	6.488e2	0.933	0.83	0.77	7.1	YES	NO	db	bb	0.071
4	Total-tetrafurans	24.76	4.904e2	5.783e2	0.933	0.85	0.77	6.5	YES	NO	bd	db	0.064
5	1368-TCDF	22.37	7.850e4	1.055e5	1.064	0.74	0.77	1049.6	YES	NO	bb	bb	9.723

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDFF	27.23	5.240e5	3.475e5	1.013	1.51	1.55	6795.3	YES	NO	bb	bb	52.477

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	30.03	4.072e5	2.602e5	0.845	1.57	1.55	2427.9	YES	NO	bb	bb	48.190
2	Total-pentafurans	28.88	6.492e4	4.357e4	0.866	1.49	1.55	381.5	YES	NO	bb	bb	7.819
3	12389-PECDF	32.41	3.936e5	2.565e5	0.844	1.53	1.55	2204.6	YES	NO	bb	bb	47.001
4	Total-pentafurans	31.59	2.837e3	1.722e3	0.866	1.65	1.55	14.9	YES	NO	db	dd	0.329
5	23478-PeCDF	31.36	4.315e5	2.852e5	0.911	1.51	1.55	2495.2	YES	NO	bd	bd	50.328

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.00	3.422e5	2.712e5	1.187	1.26	1.24	1350.5	YES	NO	bb	bb	50.367
2	234678-HxCDF	35.98	3.871e5	3.090e5	1.229	1.25	1.24	1549.9	YES	NO	bb	bb	51.630
3	123678-HxCDF	35.12	4.060e5	3.345e5	1.248	1.21	1.24	1547.0	YES	NO	db	dd	50.171
4	123478-HxCDF	34.97	3.677e5	2.910e5	1.182	1.26	1.24	1550.8	YES	NO	bd	bd	49.335
5	123468-HxCDF	33.32	3.831e5	3.047e5	1.197	1.26	1.24	1493.4	YES	NO	bb	bd	50.850

**HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.09	2.782e5	2.656e5	1.165	1.05	1.05	1521.6	YES	NO	bb	bd	49.006
2	Total-heptafurans	39.50	1.470e3	1.307e3	1.185	1.13	1.05	9.4	YES	NO	bb	bb	0.227
3	1234678-HpCDF	38.83	3.016e5	3.125e5	1.204	0.96	1.05	1882.8	YES	NO	bb	bd	45.978



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk****Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.420e4	8.894e4	0.858	0.72	0.77	783.8	YES	NO	db	dd	10.042
2	2378-TCDF	25.87	6.560e4	8.728e4	0.876	0.75	0.77	796.0	YES	NO	bb	bb	9.814
3	Total-tetrafurans	24.96	5.362e2	6.488e2	0.933	0.83	0.77	7.1	YES	NO	db	bb	0.071
4	Total-tetrafurans	24.76	4.904e2	5.783e2	0.933	0.85	0.77	6.5	YES	NO	bd	db	0.064
5	1368-TCDF	22.37	7.850e4	1.055e5	1.064	0.74	0.77	1049.6	YES	NO	bb	bb	9.723
6	12378-PeCDF	30.03	4.072e5	2.602e5	0.845	1.57	1.55	2427.9	YES	NO	bb	bb	48.190
7	Total-pentafurans	28.88	6.492e4	4.357e4	0.866	1.49	1.55	381.5	YES	NO	bb	bb	7.819
8	12389-PECDF	32.41	3.936e5	2.565e5	0.844	1.53	1.55	2204.6	YES	NO	bb	bb	47.001
9	Total-pentafurans	31.59	2.837e3	1.722e3	0.866	1.65	1.55	14.9	YES	NO	db	dd	0.329
10	23478-PeCDF	31.36	4.315e5	2.852e5	0.911	1.51	1.55	2495.2	YES	NO	bd	bd	50.328
11	123789-HxCDF	37.00	3.422e5	2.712e5	1.187	1.26	1.24	1350.5	YES	NO	bb	bb	50.367
12	234678-HxCDF	35.98	3.871e5	3.090e5	1.229	1.25	1.24	1549.9	YES	NO	bb	bb	51.630
13	123678-HxCDF	35.12	4.060e5	3.345e5	1.248	1.21	1.24	1547.0	YES	NO	db	dd	50.171
14	123478-HxCDF	34.97	3.677e5	2.910e5	1.182	1.26	1.24	1550.8	YES	NO	bd	bd	49.335
15	123468-HXCDF	33.32	3.831e5	3.047e5	1.197	1.26	1.24	1493.4	YES	NO	bb	bd	50.850
16	1234789-HpCDF	41.09	2.782e5	2.656e5	1.165	1.05	1.05	1521.6	YES	NO	bb	bd	49.006
17	Total-heptafurans	39.50	1.470e3	1.307e3	1.185	1.13	1.05	9.4	YES	NO	bb	bb	0.227
18	1234678-HpCDF	38.83	3.016e5	3.125e5	1.204	0.96	1.05	1882.8	YES	NO	bb	bd	45.978
19	OCDF	45.34	4.026e5	4.522e5	1.186	0.89	0.89	3886.0	YES	NO	bb	bb	85.553
20	13468-PECDF	27.23	5.240e5	3.475e5	1.013	1.51	1.55	6795.3	YES	NO	bb	bb	52.477

**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	5.574e4	6.808e4	0.975	0.82	0.77	493.8	YES	NO	bd	bb	9.693
2	2378-TCDD	26.52	6.445e4	8.111e4	1.236	0.79	0.77	627.5	YES	NO	bb	bb	8.987
3	Total-tetradoxins	26.18	9.325e4	1.162e5	1.099	0.80	0.77	591.2	YES	NO	bb	bb	14.554
4	Total-tetradoxins	25.70	2.971e4	3.590e4	1.099	0.83	0.77	288.7	YES	NO	bd	bd	4.558
5	Total-tetradoxins	25.13	6.989e2	8.927e2	1.099	0.78	0.77	7.4	YES	NO	bb	db	0.111
6	Total-tetradoxins	24.84	2.626e3	3.675e3	1.099	0.71	0.77	18.5	YES	NO	bb	bd	0.438
7	1368-TCDD	23.64	5.983e4	7.512e4	1.084	0.80	0.77	605.2	YES	NO	bb	bb	9.500

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk****PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.02	3.709e5	2.376e5	1.252	1.56	1.55	2309.2	YES	NO	bb	bb	51.131
2	12378-PeCDD	31.62	3.206e5	2.066e5	1.087	1.55	1.55	2088.0	YES	NO	bb	bb	51.062
3	Total-pentadioxins	29.11	2.112e2	1.372e2	1.392	1.54	1.55	4.0	NO	NO	bb	bb	0.026
4	12479-PECDD	28.91	5.397e5	3.534e5	1.837	1.53	1.55	2156.1	YES	NO	bb	bb	51.160

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.09	2.932e5	2.430e5	1.033	1.21	1.24	1954.3	YES	NO	bb	bb	51.086
2	Total-hexadioxins	36.91	1.559e2	1.169e2	1.007	1.33	1.24	1.2	NO	NO	bd	bd	0.025
3	123789-HxCDD	36.59	2.877e5	2.423e5	0.985	1.19	1.24	1956.2	YES	NO	bb	bb	50.156
4	123678-HxCDD	36.21	2.956e5	2.430e5	1.021	1.22	1.24	1972.7	YES	NO	db	db	46.748
5	123478-HxCDD	36.09	2.782e5	2.261e5	0.987	1.23	1.24	1904.2	YES	NO	bd	bd	50.279

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.34	2.562e5	2.442e5	1.253	1.05	1.05	1739.0	YES	NO	bb	bb	46.234
2	1234679-HPCDD	39.28	2.833e5	2.647e5	1.286	1.07	1.05	1968.0	YES	NO	bd	bb	49.312

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk****Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	5.574e4	6.808e4	0.975	0.82	0.77	493.8	YES	NO	bd	bb	9.693
2	2378-TCDD	26.52	6.445e4	8.111e4	1.236	0.79	0.77	627.5	YES	NO	bb	bb	8.987
3	Total-tetradoxins	26.18	9.325e4	1.162e5	1.099	0.80	0.77	591.2	YES	NO	bb	bb	14.554
4	Total-tetradoxins	25.70	2.971e4	3.590e4	1.099	0.83	0.77	288.7	YES	NO	bd	bd	4.558
5	Total-tetradoxins	25.13	6.989e2	8.927e2	1.099	0.78	0.77	7.4	YES	NO	bb	db	0.111
6	Total-tetradoxins	24.84	2.626e3	3.675e3	1.099	0.71	0.77	18.5	YES	NO	bb	bd	0.438
7	1368-TCDD	23.64	5.983e4	7.512e4	1.084	0.80	0.77	605.2	YES	NO	bb	bb	9.500
8	12389-PECDD	32.02	3.709e5	2.376e5	1.252	1.56	1.55	2309.2	YES	NO	bb	bb	51.131
9	12378-PeCDD	31.62	3.206e5	2.066e5	1.087	1.55	1.55	2088.0	YES	NO	bb	bb	51.062
10	Total-pentadoxins	29.11	2.112e2	1.372e2	1.392	1.54	1.55	4.0	NO	NO	bb	bb	0.026
11	12479-PECDD	28.91	5.397e5	3.534e5	1.837	1.53	1.55	2156.1	YES	NO	bb	bb	51.160
12	124679-HxCDD	34.09	2.932e5	2.430e5	1.033	1.21	1.24	1954.3	YES	NO	bb	bb	51.086
13	Total-hexadoxins	36.91	1.559e2	1.169e2	1.007	1.33	1.24	1.2	NO	NO	bd	bd	0.025
14	123789-HxCDD	36.59	2.877e5	2.423e5	0.985	1.19	1.24	1956.2	YES	NO	bb	bb	50.156
15	123678-HxCDD	36.21	2.956e5	2.430e5	1.021	1.22	1.24	1972.7	YES	NO	db	db	46.748
16	123478-HxCDD	36.09	2.782e5	2.261e5	0.987	1.23	1.24	1904.2	YES	NO	bd	bd	50.279
17	1234678-HpCDD	40.34	2.562e5	2.442e5	1.253	1.05	1.05	1739.0	YES	NO	bb	bb	46.234
18	1234679-HPCDD	39.28	2.833e5	2.647e5	1.286	1.07	1.05	1968.0	YES	NO	bd	bb	49.312
19	OCDD	45.09	3.966e5	4.685e5	1.103	0.85	0.89	2841.0	YES	NO	bb	bd	93.152

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.38	6.420e4	8.894e4	0.858	0.72	0.77	783.8	YES	NO	db	dd	10.042
2	2378-TCDF	25.87	6.560e4	8.728e4	0.876	0.75	0.77	796.0	YES	NO	bb	bb	9.814
3	Total-tetrafurans	24.96	5.362e2	6.488e2	0.933	0.83	0.77	7.1	YES	NO	db	bb	0.071
4	Total-tetrafurans	24.76	4.904e2	5.783e2	0.933	0.85	0.77	6.5	YES	NO	bd	db	0.064
5	1368-TCDF	22.37	7.850e4	1.055e5	1.064	0.74	0.77	1049.6	YES	NO	bb	bb	9.723
6	12378-PeCDF	30.03	4.072e5	2.602e5	0.845	1.57	1.55	2427.9	YES	NO	bb	bb	48.190
7	Total-pentafurans	28.88	6.492e4	4.357e4	0.866	1.49	1.55	381.5	YES	NO	bb	bb	7.819
8	12389-PECDF	32.41	3.936e5	2.565e5	0.844	1.53	1.55	2204.6	YES	NO	bb	bb	47.001
9	Total-pentafurans	31.59	2.837e3	1.722e3	0.866	1.65	1.55	14.9	YES	NO	db	dd	0.329
10	23478-PeCDF	31.36	4.315e5	2.852e5	0.911	1.51	1.55	2495.2	YES	NO	bd	bd	50.328
11	123789-HxCDF	37.00	3.422e5	2.712e5	1.187	1.26	1.24	1350.5	YES	NO	bb	bb	50.367
12	234678-HxCDF	35.98	3.871e5	3.090e5	1.229	1.25	1.24	1549.9	YES	NO	bb	bb	51.630
13	123678-HxCDF	35.12	4.060e5	3.345e5	1.248	1.21	1.24	1547.0	YES	NO	db	dd	50.171
14	123478-HxCDF	34.97	3.677e5	2.910e5	1.182	1.26	1.24	1550.8	YES	NO	bd	bd	49.335
15	123468-HXCDF	33.32	3.831e5	3.047e5	1.197	1.26	1.24	1493.4	YES	NO	bb	bd	50.850
16	1234789-HpCDF	41.09	2.782e5	2.656e5	1.165	1.05	1.05	1521.6	YES	NO	bb	bd	49.006
17	Total-heptafurans	39.50	1.470e3	1.307e3	1.185	1.13	1.05	9.4	YES	NO	bb	bb	0.227
18	1234678-HpCDF	38.83	3.016e5	3.125e5	1.204	0.96	1.05	1882.8	YES	NO	bb	bd	45.978
19	OCDF	45.34	4.026e5	4.522e5	1.186	0.89	0.89	3886.0	YES	NO	bb	bb	85.553
20	13468-PECDF	27.23	5.240e5	3.475e5	1.013	1.51	1.55	6795.3	YES	NO	bb	bb	52.477
21	1289-TCDD	27.12	5.574e4	6.808e4	0.975	0.82	0.77	493.8	YES	NO	bd	bb	9.693
22	2378-TCDD	26.52	6.445e4	8.111e4	1.236	0.79	0.77	627.5	YES	NO	bb	bb	8.987
23	Total-tetradioxins	26.18	9.325e4	1.162e5	1.099	0.80	0.77	591.2	YES	NO	bb	bb	14.554
24	Total-tetradioxins	25.70	2.971e4	3.590e4	1.099	0.83	0.77	288.7	YES	NO	bd	bd	4.558
25	Total-tetradioxins	25.13	6.989e2	8.927e2	1.099	0.78	0.77	7.4	YES	NO	bb	db	0.111
26	Total-tetradioxins	24.84	2.626e3	3.675e3	1.099	0.71	0.77	18.5	YES	NO	bb	bd	0.438
27	1368-TCDD	23.64	5.983e4	7.512e4	1.084	0.80	0.77	605.2	YES	NO	bb	bb	9.500
28	12389-PECDD	32.02	3.709e5	2.376e5	1.252	1.56	1.55	2309.2	YES	NO	bb	bb	51.131
29	12378-PeCDD	31.62	3.206e5	2.066e5	1.087	1.55	1.55	2088.0	YES	NO	bb	bb	51.062
30	Total-pentadioxins	29.11	2.112e2	1.372e2	1.392	1.54	1.55	4.0	NO	NO	bb	bb	0.026
31	12479-PECDD	28.91	5.397e5	3.534e5	1.837	1.53	1.55	2156.1	YES	NO	bb	bb	51.160
32	124679-HXCDD	34.09	2.932e5	2.430e5	1.033	1.21	1.24	1954.3	YES	NO	bb	bb	51.086
33	Total-hexadioxins	36.91	1.559e2	1.169e2	1.007	1.33	1.24	1.2	NO	NO	bd	bd	0.025
34	123789-HxCDD	36.59	2.877e5	2.423e5	0.985	1.19	1.24	1956.2	YES	NO	bb	bb	50.156
35	123678-HxCDD	36.21	2.956e5	2.430e5	1.021	1.22	1.24	1972.7	YES	NO	db	db	46.748
36	123478-HxCDD	36.09	2.782e5	2.261e5	0.987	1.23	1.24	1904.2	YES	NO	bd	bd	50.279
37	1234678-HpCDD	40.34	2.562e5	2.442e5	1.253	1.05	1.05	1739.0	YES	NO	bb	bb	46.234

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time

Printed: Friday, February 03, 2023 14:08:01 Pacific Standard Time

**ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk****TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234679-HPCDD	39.28	2.833e5	2.647e5	1.286	1.07	1.05	1968.0	YES	NO	bd	bb	49.312
39	OCDD	45.09	3.966e5	4.685e5	1.103	0.85	0.89	2841.0	YES	NO	bb	bd	93.152

## Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

## PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.60	3.236e4					1.0	NO		bd		
2	FUNCTION1 PFK	21.54	1.039e4					0.7	NO		bb		
3	FUNCTION1 PFK	21.48	5.640e3					0.4	NO		bb		
4	FUNCTION1 PFK	21.41	4.888e4					1.2	NO		bb		
5	FUNCTION1 PFK	21.29	2.969e4					0.9	NO		bb		
6	FUNCTION1 PFK	22.93	3.615e4					1.1	NO		bb		
7	FUNCTION1 PFK	22.84	3.056e4					0.9	NO		bb		
8	FUNCTION1 PFK	22.78	6.028e4					1.3	NO		db		
9	FUNCTION1 PFK	22.72	1.368e4					0.7	NO		bd		
10	FUNCTION1 PFK	22.66	5.527e3					0.4	NO		bb		
11	FUNCTION1 PFK	22.60	2.528e4					0.9	NO		bb		
12	FUNCTION1 PFK	22.34	2.536e4					0.8	NO		bb		
13	FUNCTION1 PFK	22.21	2.554e4					0.9	NO		bb		
14	FUNCTION1 PFK	22.13	4.400e4					1.2	NO		db		
15	FUNCTION1 PFK	22.09	2.686e4					0.7	NO		bd		
16	FUNCTION1 PFK	22.00	3.633e4					0.9	NO		db		
17	FUNCTION1 PFK	21.94	1.304e4					0.6	NO		bd		
18	FUNCTION1 PFK	21.88	8.695e4					1.6	NO		db		
19	FUNCTION1 PFK	21.80	9.050e4					2.0	NO		dd		
20	FUNCTION1 PFK	21.74	9.072e4					1.8	NO		dd		
21	FUNCTION1 PFK	21.66	3.708e4					0.9	NO		dd		
22	FUNCTION1 PFK	25.58	1.529e4					0.6	NO		bd		
23	FUNCTION1 PFK	25.52	9.785e3					0.4	NO		bb		
24	FUNCTION1 PFK	24.87	1.305e4					0.5	NO		bb		
25	FUNCTION1 PFK	24.73	3.899e4					1.1	NO		bb		
26	FUNCTION1 PFK	24.61	6.670e4					0.9	NO		bb		
27	FUNCTION1 PFK	24.54	3.011e4					1.1	NO		bb		
28	FUNCTION1 PFK	24.48	1.814e4					0.9	NO		bb		
29	FUNCTION1 PFK	24.42	1.596e4					0.6	NO		bb		
30	FUNCTION1 PFK	24.13	7.256e4					1.1	NO		bb		
31	FUNCTION1 PFK	23.95	1.474e4					0.5	NO		bb		
32	FUNCTION1 PFK	23.66	2.143e4					0.8	NO		bb		
33	FUNCTION1 PFK	23.52	6.297e3					0.4	NO		bb		
34	FUNCTION1 PFK	23.46	5.164e3					0.3	NO		bb		
35	FUNCTION1 PFK	23.33	4.372e4					1.2	NO		bb		
36	FUNCTION1 PFK	23.05	3.147e4					0.9	NO		bb		
37	FUNCTION1 PFK	22.99	5.499e3					0.4	NO		bb		

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk****PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	28.07	4.208e4					1.2	NO		bb		
39	FUNCTION1 PFK	27.88	1.742e4					0.5	NO		bb		
40	FUNCTION1 PFK	27.70	2.187e4					0.8	NO		bb		
41	FUNCTION1 PFK	27.64	2.253e4					0.8	NO		bb		
42	FUNCTION1 PFK	27.20	6.310e4					1.4	NO		bb		
43	FUNCTION1 PFK	26.83	3.828e4					1.0	NO		bb		
44	FUNCTION1 PFK	26.41	2.091e4					0.8	NO		bb		
45	FUNCTION1 PFK	26.17	9.294e3					0.6	NO		bb		
46	FUNCTION1 PFK	26.02	1.490e4					0.6	NO		bb		
47	FUNCTION1 PFK	25.64	1.774e4					0.6	NO		db		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.67	1.574e4					0.9	NO		bb		0.000
2	FUNCTION2 PFK	29.45	9.643e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	29.17	2.596e4					1.4	NO		bb		0.000
4	FUNCTION2 PFK	29.05	5.557e4					1.9	NO		bb		0.000
5	FUNCTION2 PFK	28.96	3.231e4					1.4	NO		bb		0.000
6	FUNCTION2 PFK	32.58	7.491e3					0.8	NO		bb		0.000
7	FUNCTION2 PFK	32.53	3.093e3					0.5	NO		bb		0.000
8	FUNCTION2 PFK	32.04	6.325e4					1.8	NO		bb		0.000
9	FUNCTION2 PFK	31.88	1.098e4					0.9	NO		bb		0.000
10	FUNCTION2 PFK	31.76	6.853e4					1.9	NO		bb		0.000
11	FUNCTION2 PFK	31.42	2.451e4					1.8	NO		db		0.000
12	FUNCTION2 PFK	31.37	1.119e4					0.9	NO		bd		0.000
13	FUNCTION2 PFK	30.24	8.306e3					0.8	NO		bb		0.000

**PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.29	4.058e6					7.3	YES		bb		0.000
2	FUNCTION3 PFK	36.53	2.709e6					18.3	YES		bb		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld

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**ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk****PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.03	8.429e3					1.0	NO		bb		
2	FUNCTION4 PFK	38.67	3.492e3					0.6	NO		bb		
3	FUNCTION4 PFK	38.62	1.234e4					1.0	NO		bb		
4	FUNCTION4 PFK	38.42	2.509e3					0.6	NO		bb		
5	FUNCTION4 PFK	42.93	3.027e4					1.6	NO		bb		
6	FUNCTION4 PFK	42.03	1.813e3					0.4	NO		bb		
7	FUNCTION4 PFK	41.60	5.898e3					0.8	NO		bb		
8	FUNCTION4 PFK	41.37	3.626e3					0.6	NO		bb		
9	FUNCTION4 PFK	40.78	6.564e3					0.9	NO		bb		
10	FUNCTION4 PFK	40.61	3.563e3					0.9	NO		bb		
11	FUNCTION4 PFK	40.20	2.316e4					1.5	NO		bb		
12	FUNCTION4 PFK	40.04	4.015e4					1.9	NO		bb		
13	FUNCTION4 PFK	39.85	1.333e4					1.1	NO		bb		
14	FUNCTION4 PFK	39.72	1.061e4					0.9	NO		db		
15	FUNCTION4 PFK	39.70	2.176e4					1.7	NO		dd		
16	FUNCTION4 PFK	39.65	1.318e4					1.2	NO		bd		
17	FUNCTION4 PFK	39.10	1.427e4					1.3	NO		bb		

**PFK5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.54	8.014e1					1.7	NO		bb		0.000
2	FUNCTION1 HXCD...	27.21	1.478e2					2.4	NO		bb		0.000
3	FUNCTION1 HXCD...	27.05	1.248e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	25.88	1.840e2					2.4	NO		bb		0.000
5	FUNCTION1 HXCD...	24.88	8.481e1					2.1	NO		bb		0.000
6	FUNCTION1 HXCD...	24.01	1.165e2					2.5	NO		bb		0.000
7	FUNCTION1 HXCD...	23.34	7.440e1					1.8	NO		db		0.000
8	FUNCTION1 HXCD...	23.19	2.461e2					2.2	NO		bd		0.000
9	FUNCTION1 HXCD...	22.59	1.943e2					1.8	NO		db		0.000
10	FUNCTION1 HXCD...	22.48	1.367e2					2.0	NO		bd		0.000
11	FUNCTION1 HXCD...	21.75	7.512e1					2.7	NO		bb		0.000



ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

**ETHERS2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	25.02	2.236e2					2.4	NO		bd		0.000
2	FUNCTION1 HPCD...	23.21	9.377e1					1.6	NO		bb		0.000
3	FUNCTION1 HPCD...	22.53	1.157e2					2.3	NO		bb		0.000
4	FUNCTION1 HPCD...	22.31	9.635e1					1.9	NO		bb		0.000
5	FUNCTION1 HPCD...	21.24	2.802e2					2.1	NO		bb		0.000
6	FUNCTION1 HPCD...	28.07	7.206e1					1.6	NO		bb		0.000
7	FUNCTION1 HPCD...	27.51	1.004e2					2.3	NO		bb		0.000
8	FUNCTION1 HPCD...	26.52	1.142e2					2.7	NO		bb		0.000
9	FUNCTION1 HPCD...	26.17	1.802e2					3.0	NO		bb		0.000
10	FUNCTION1 HPCD...	25.84	1.450e2					2.0	NO		bb		0.000
11	FUNCTION1 HPCD...	25.10	1.145e2					2.1	NO		db		0.000

**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.73	1.496e2					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	32.37	7.369e1					1.5	NO		bb		0.000
3	FUNCTION2 HPCD...	32.29	1.321e2					2.1	NO		bb		0.000
4	FUNCTION2 HPCD...	31.96	1.309e2					1.9	NO		bb		0.000
5	FUNCTION2 HPCD...	31.25	4.507e2					4.7	YES		bb		0.000
6	FUNCTION2 HPCD...	30.04	9.538e1					2.1	NO		bb		0.000
7	FUNCTION2 HPCD...	28.63	1.033e2					1.9	NO		bb		0.000

**ETHERS4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	34.10	8.770e1					2.4	NO		bb		0.000
2	FUNCTION3 OCDPE	37.25	7.025e1					2.6	NO		bb		0.000
3	FUNCTION3 OCDPE	36.60	1.849e2					5.9	YES		db		0.000
4	FUNCTION3 OCDPE	36.57	1.603e2					5.4	YES		bd		0.000
5	FUNCTION3 OCDPE	36.20	2.785e2					5.2	YES		db		0.000
6	FUNCTION3 OCDPE	36.09	2.662e2					5.2	YES		dd		0.000
7	FUNCTION3 OCDPE	35.99	1.284e2					2.0	NO		bd		0.000
8	FUNCTION3 OCDPE	35.13	8.032e1					3.1	YES		db		0.000
9	FUNCTION3 OCDPE	35.10	1.096e2					3.0	YES		dd		0.000
10	FUNCTION3 OCDPE	34.96	8.650e1					1.5	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.82	9.002e1					1.5	NO		bb		0.000
2	FUNCTION4 NCDPE	42.05	1.268e2					1.9	NO		bb		0.000
3	FUNCTION4 NCDPE	40.35	2.591e2					3.9	YES		bb		0.000
4	FUNCTION4 NCDPE	39.47	1.079e2					2.2	NO		bb		0.000
5	FUNCTION4 NCDPE	39.34	9.626e1					1.8	NO		bb		0.000

**ETHERS6**

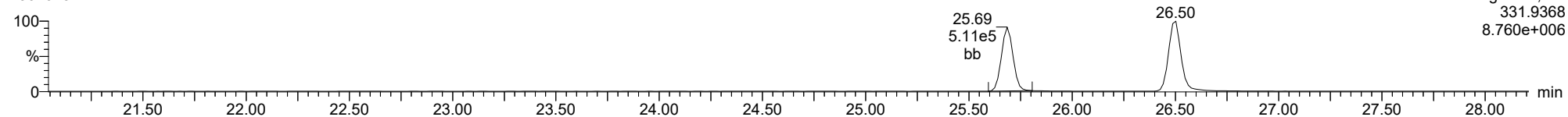
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1	FUNCTION5 DCDPE	45.28	7.253e1					1.9	NO		bb		0.000

**Method:** T:\Autospec\Methods\Dioxin230131IH.mdb 03 Feb 2023 10:31:33  
**Calibration:** T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

**ID:** CS3R4, **Name:** 23020134, **Date:** 02-Feb-2023, **Time:** 16:23:40, **Conditions:** AUTOSPEC01, **User:** pk

**13C-1234-TCDD**

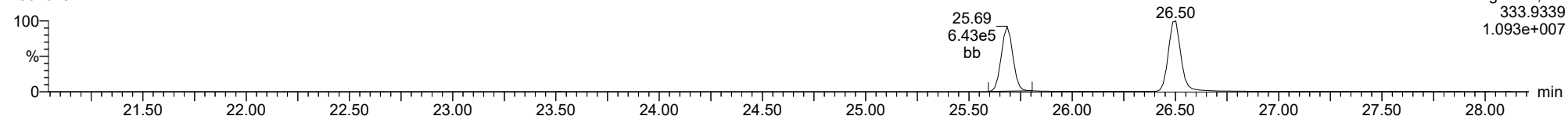
23020134



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8.760e+006

**13C-1234-TCDD**

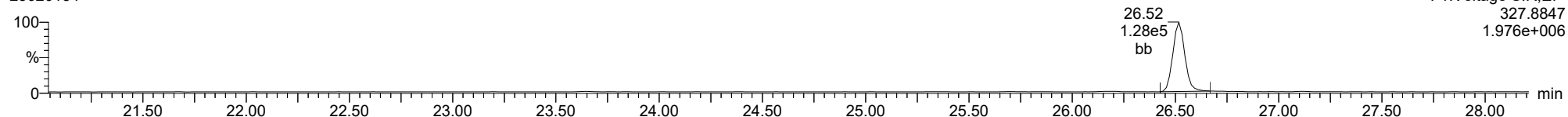
23020134



F1:Voltage SIR,El+  
333.9339  
1.093e+007

**37CL-2378-TCDD**

23020134

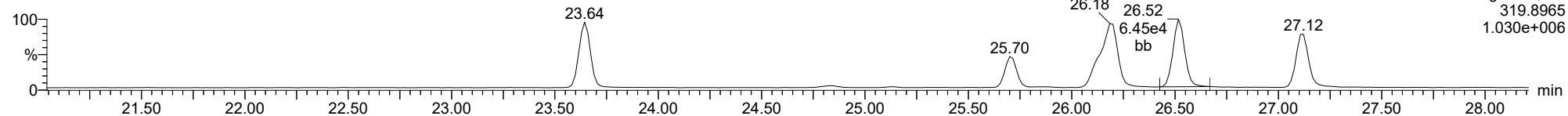


F1:Voltage SIR,El+  
327.8847  
1.976e+006

ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

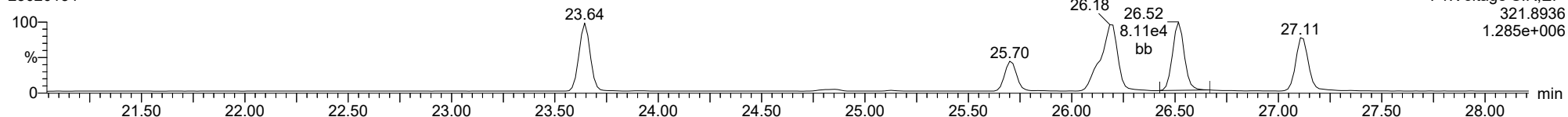
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23020134



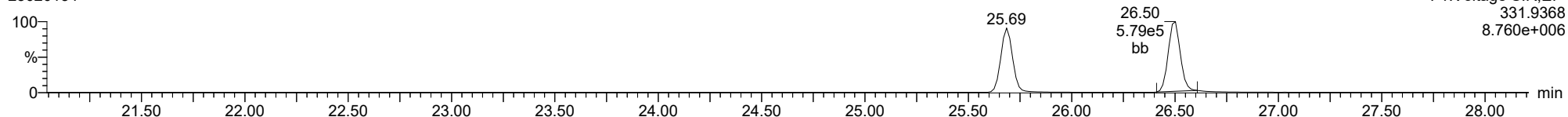
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23020134



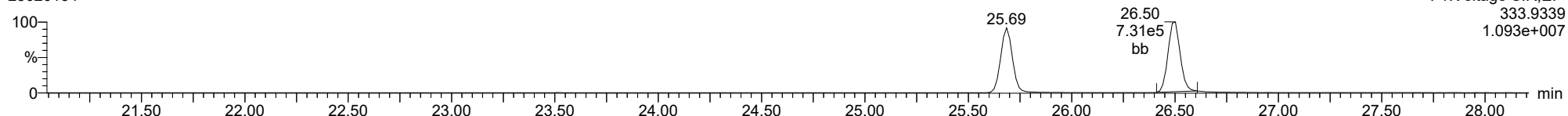
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23020134



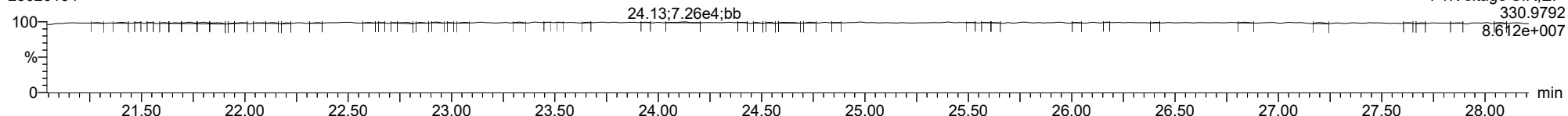
**13C-2378-TCDD**

23020134



**FUNCTION1 PFK**

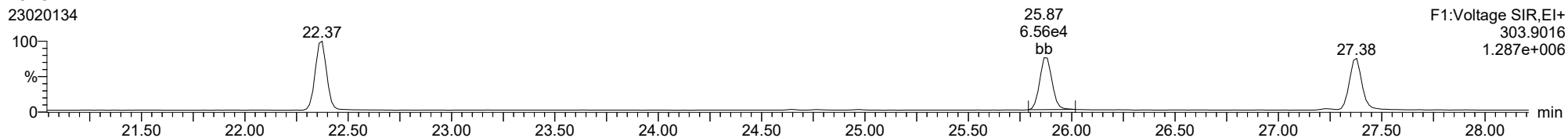
23020134



ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

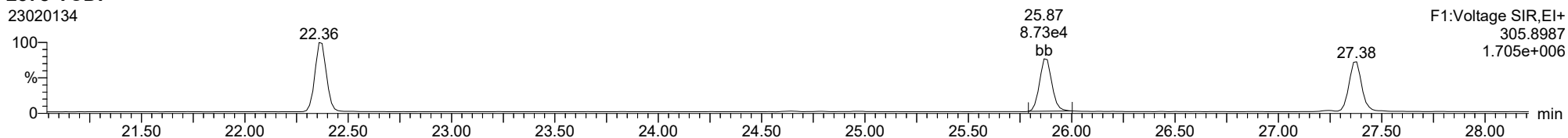
**2378-TCDF**

23020134



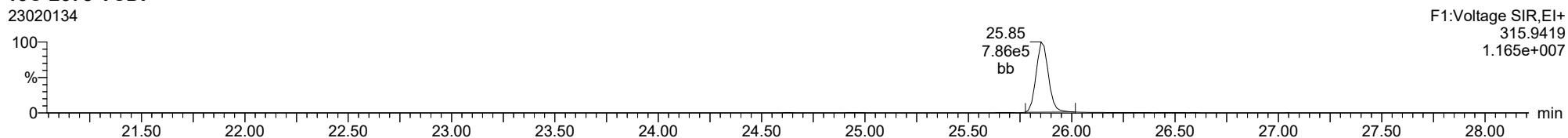
**2378-TCDF**

23020134



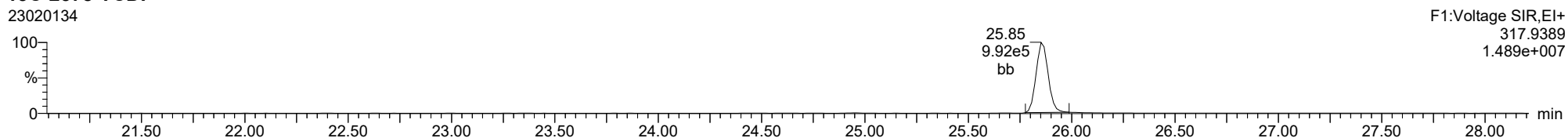
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23020134



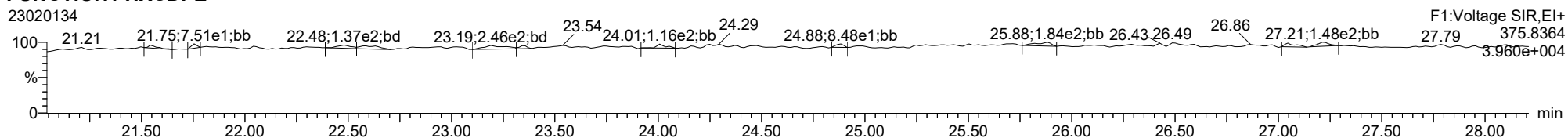
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23020134



**FUNCTION1 HXCDPE**

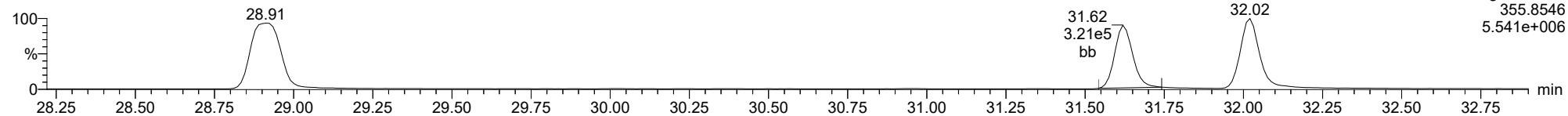
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

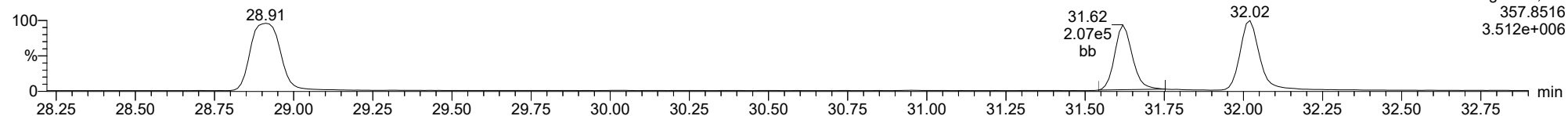
**12378-PeCDD**

23020134



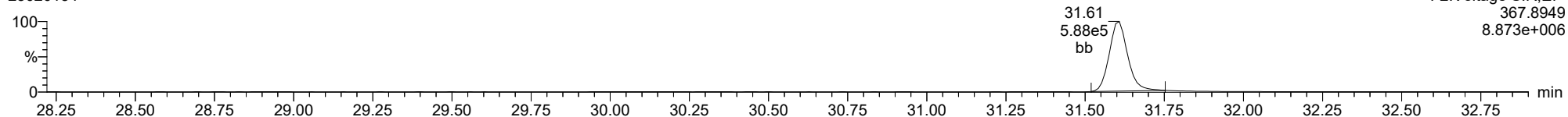
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23020134



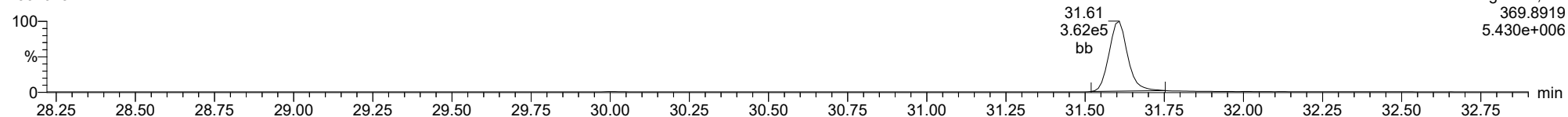
**13C-12378-PeCDD**

23020134



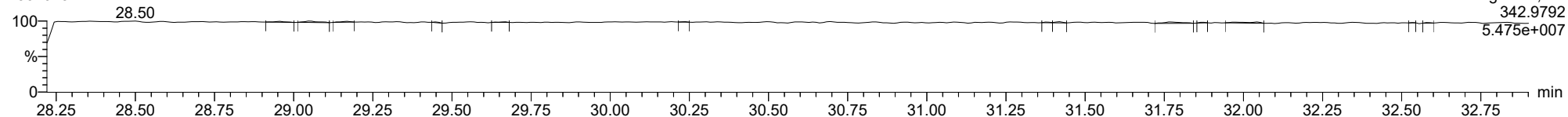
**13C-12378-PeCDD**

23020134



**FUNCTION2 PFK**

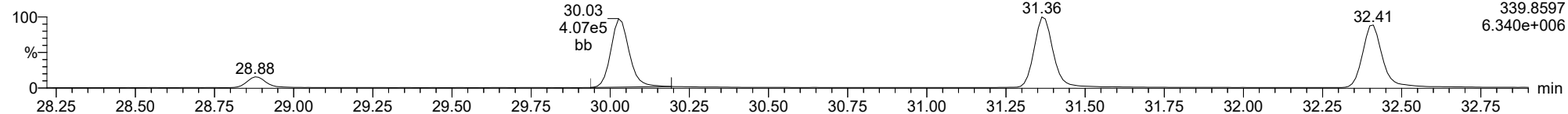
23020134



ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

**12378-PeCDF**

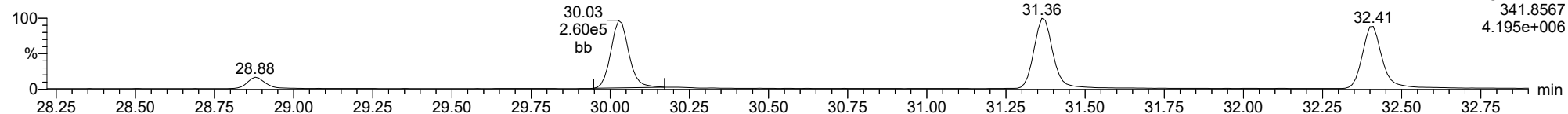
23020134



F2:Voltage SIR,EI+  
339.8597  
6.340e+006

**12378-PeCDF**

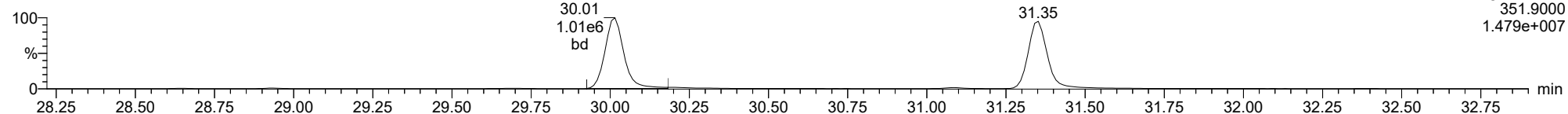
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F2:Voltage SIR,EI+  
341.8567  
4.195e+006

**13C-12378-PeCDF**

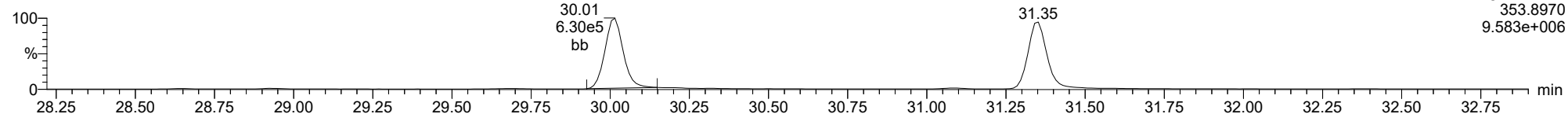
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F2:Voltage SIR,EI+  
351.9000  
1.479e+007

**13C-12378-PeCDF**

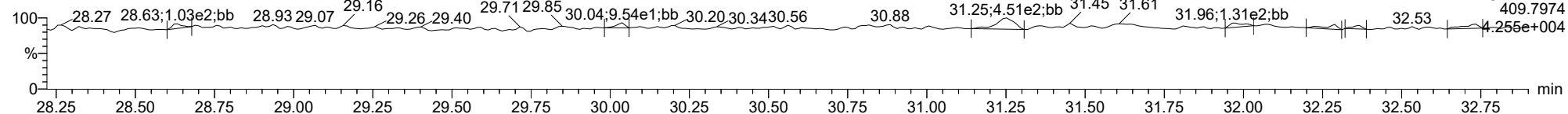
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F2:Voltage SIR,EI+  
353.8970  
9.583e+006

**FUNCTION2 HPCDPE**

23020134

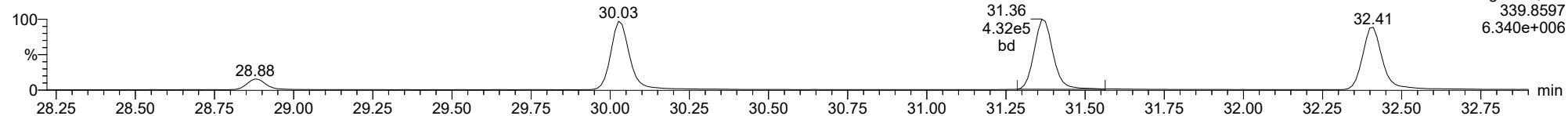


F2:Voltage SIR,EI+  
409.7974  
4.255e+004

ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

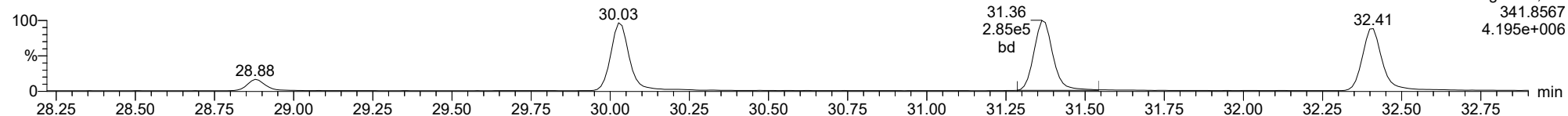
**23478-PeCDF**

23020134



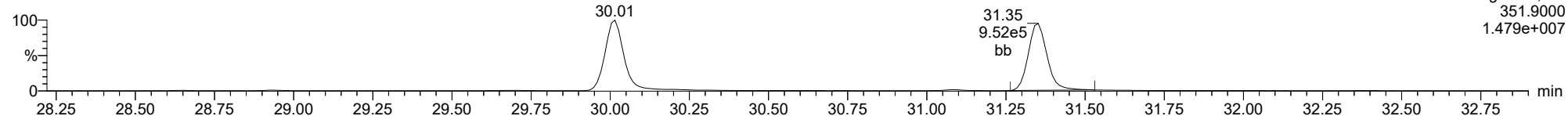
**23478-PeCDF**

23020134



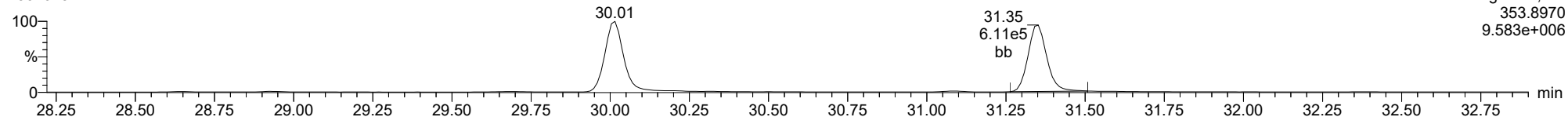
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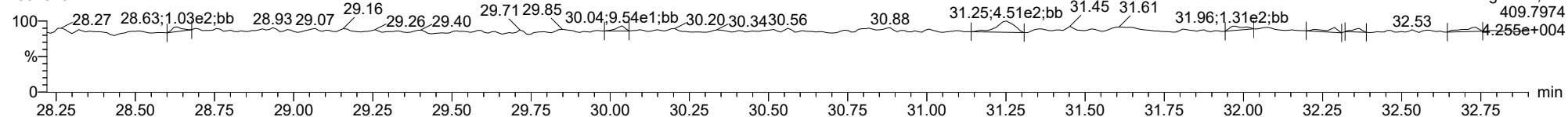
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**FUNCTION2 HPCDPE**

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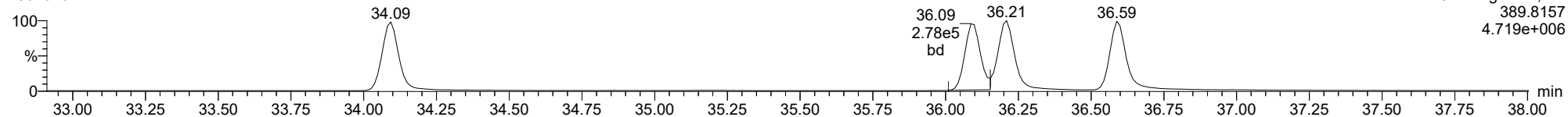




ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

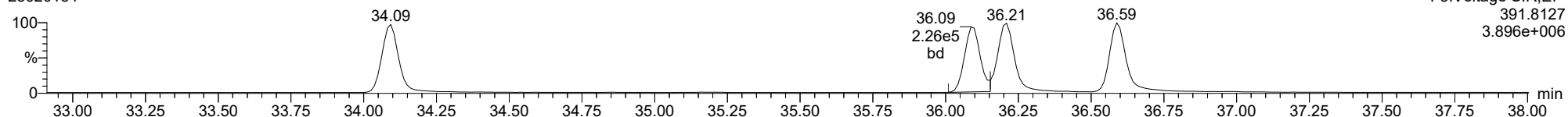
**123478-HxCDD**

23020134



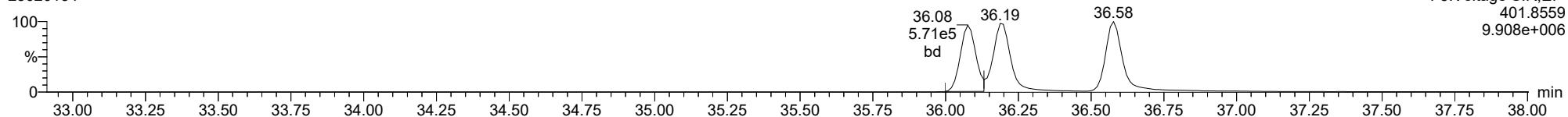
**123478-HxCDD**

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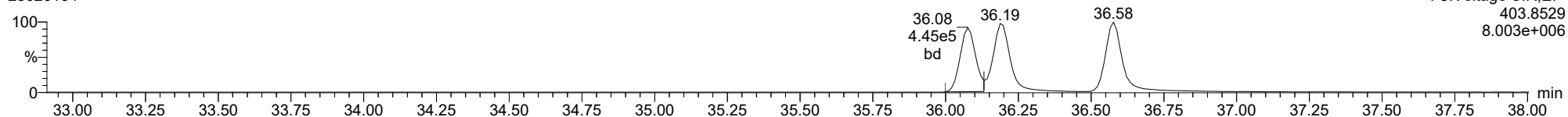
**13C-123478-HxCDD**

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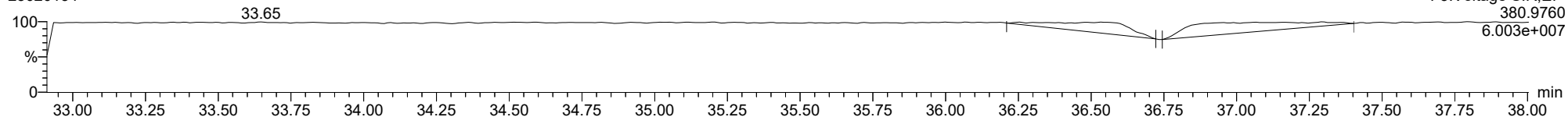
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23020134



**FUNCTION3 PFK**

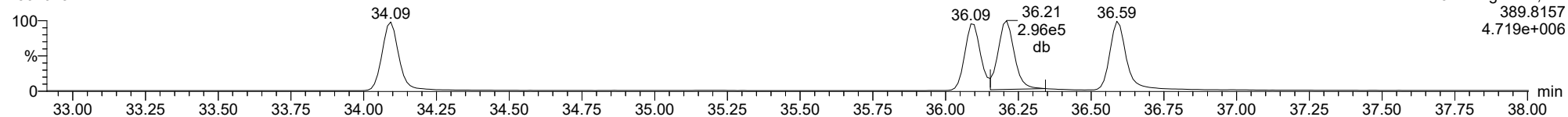
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

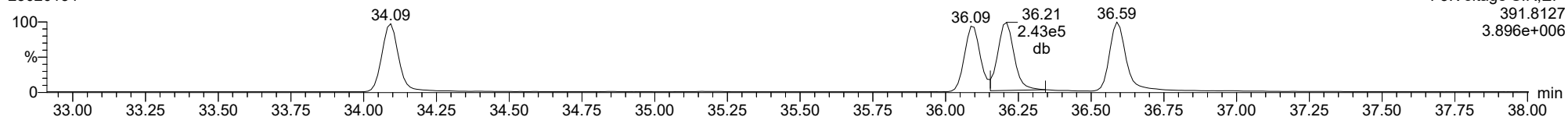
**123678-HxCDD**

23020134



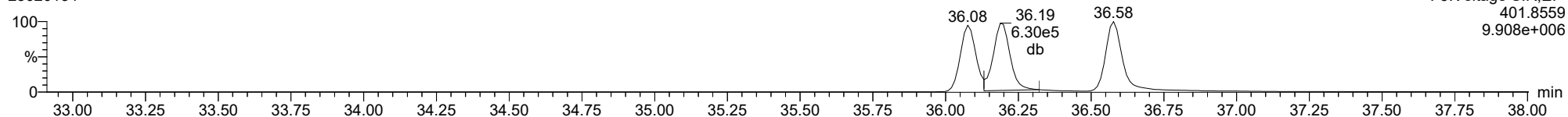
**123678-HxCDD**

23020134



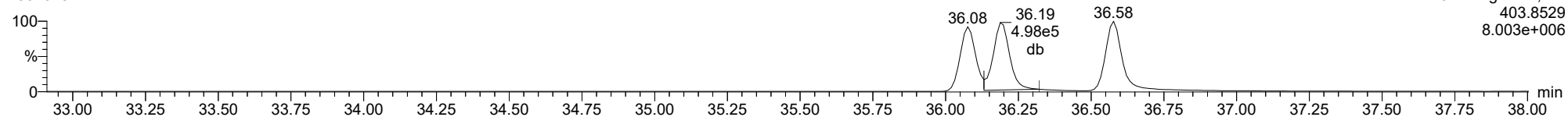
**13C-123678-HxCDD**

23020134



**13C-123678-HxCDD**

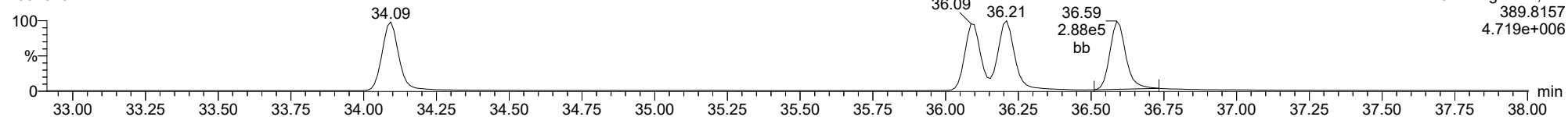
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

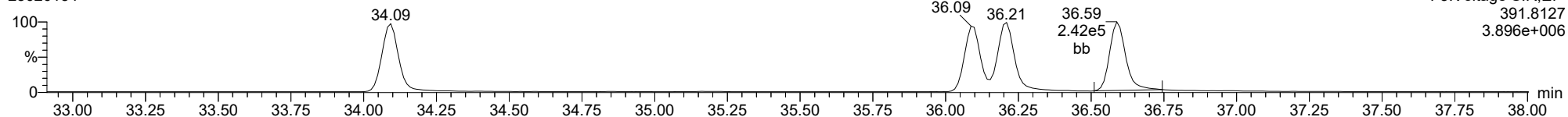
**123789-HxCDD**

23020134



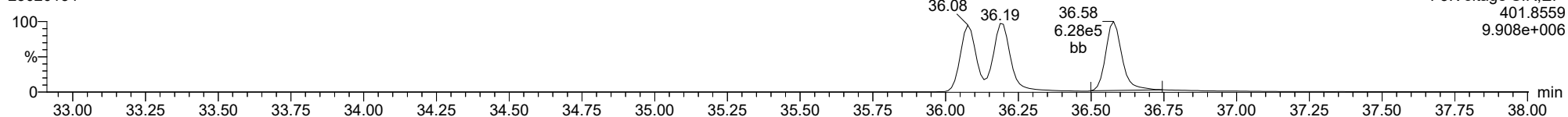
**123789-HxCDD**

23020134



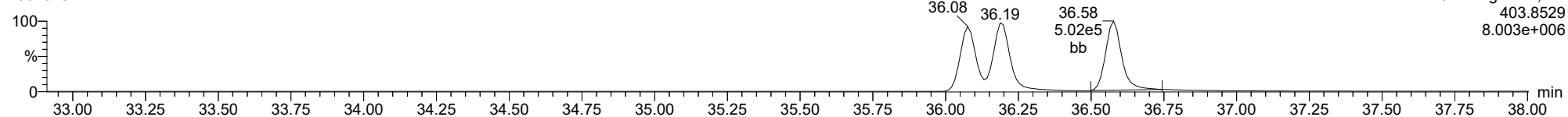
**13C-123789-HxCDD**

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**13C-123789-HxCDD**

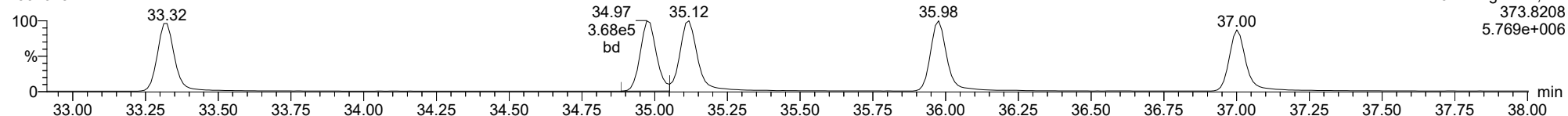
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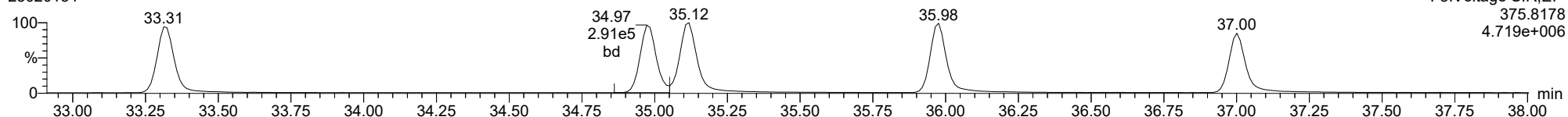
**123478-HxCDF**

23020134



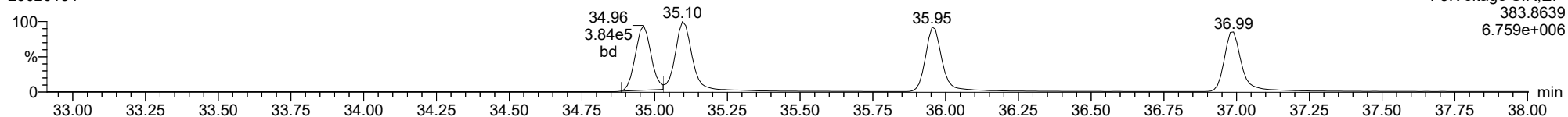
**123478-HxCDF**

23020134



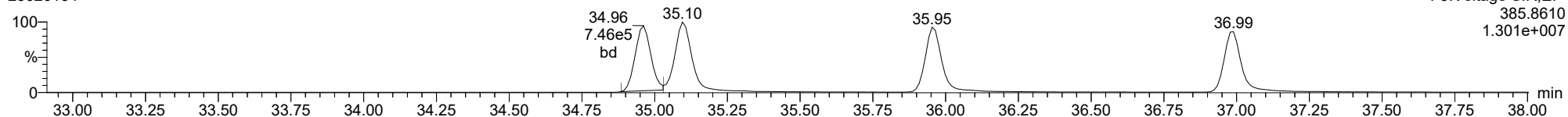
**13C-123478-HxCDF**

23020134



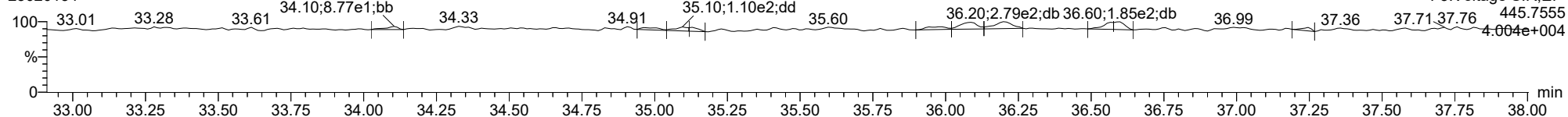
**13C-123478-HxCDF**

23020134



**FUNCTION3 OCDPE**

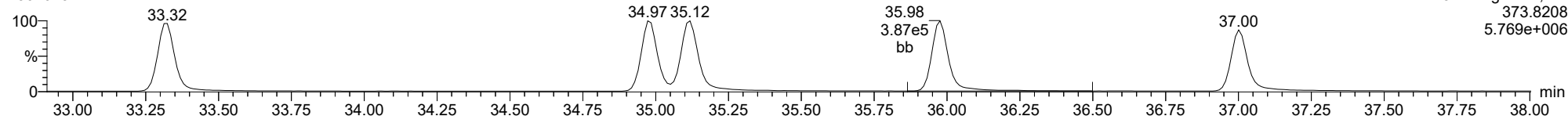
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

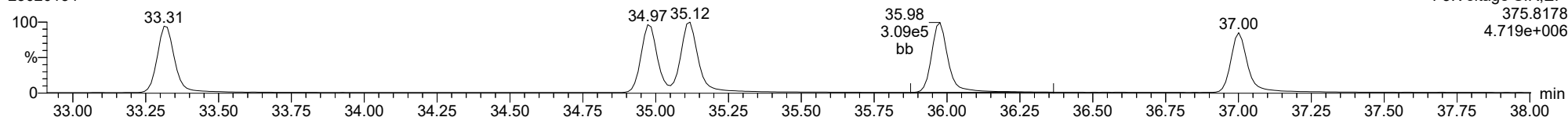
**234678-HxCDF**

23020134



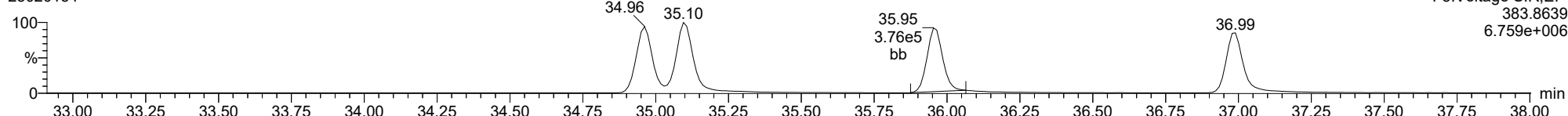
**234678-HxCDF**

23020134



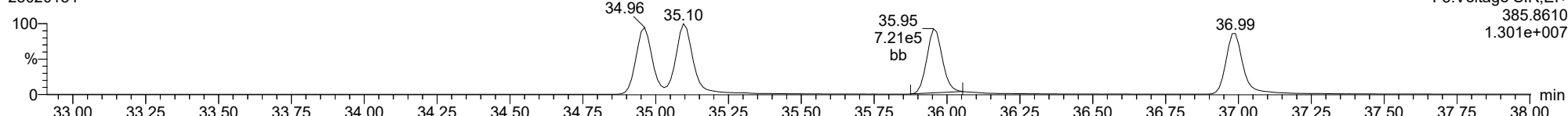
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23020134



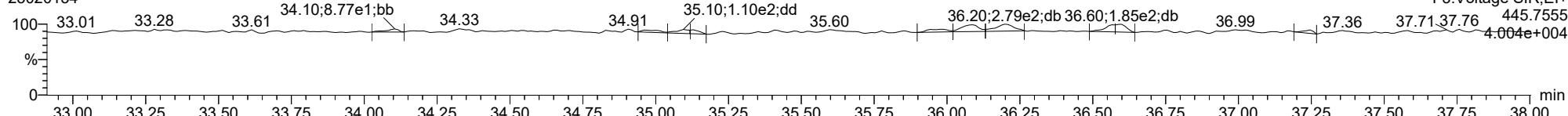
**13C-234678-HxCDF**

23020134



**FUNCTION3 OCDPE**

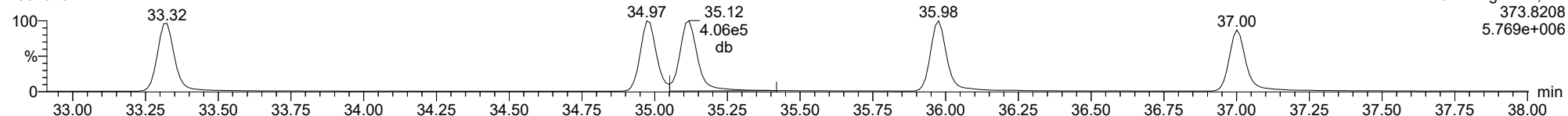
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

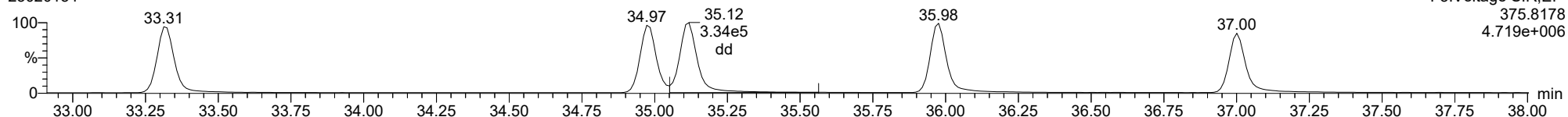
123678-HxCDF

23020134



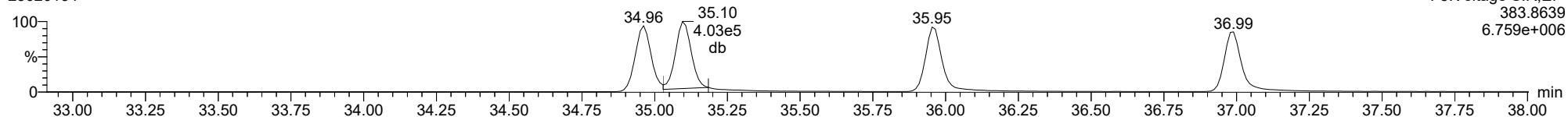
123678-HxCDF

23020134



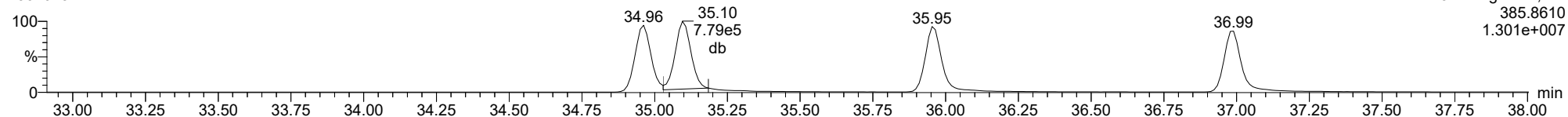
13C-123678-HxCDF

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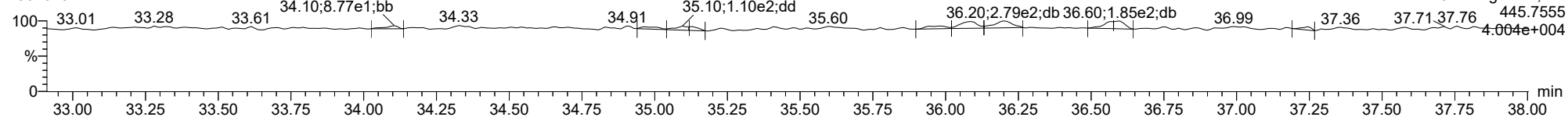
13C-123678-HxCDF

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FUNCTION3 OCDPE

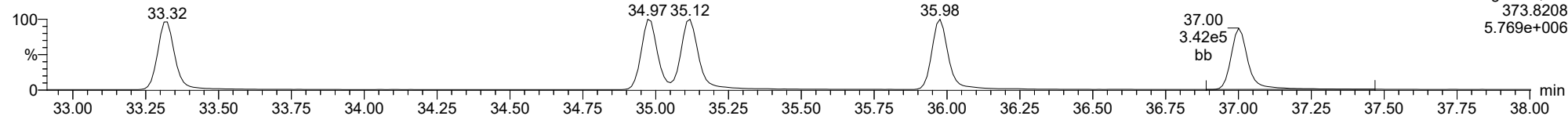
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

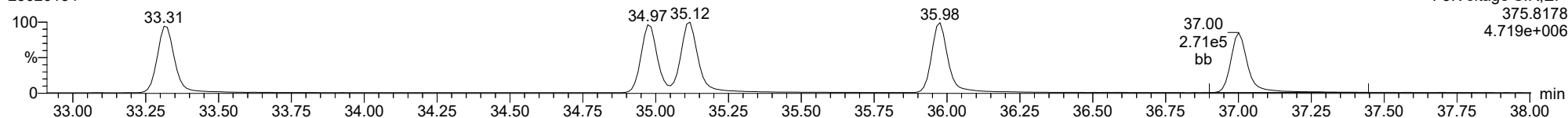
123789-HxCDF

23020134



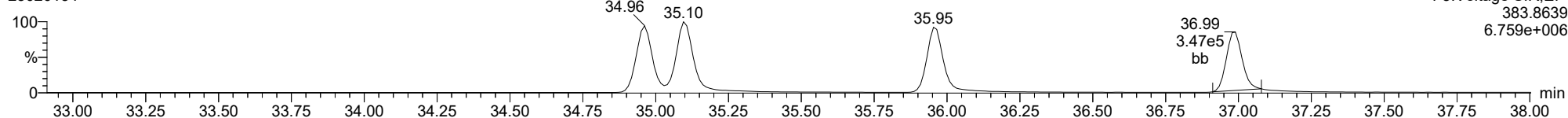
123789-HxCDF

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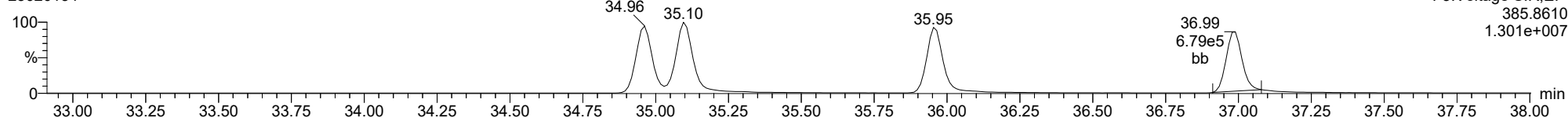
13C-123789-HxCDF

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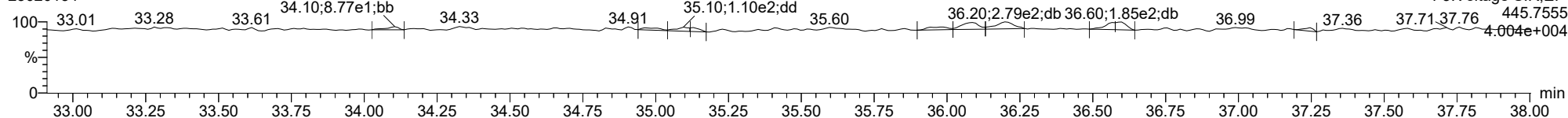
13C-123789-HxCDF

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FUNCTION3 OCDPE

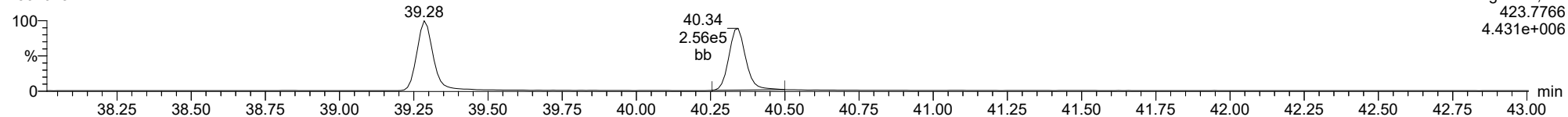
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

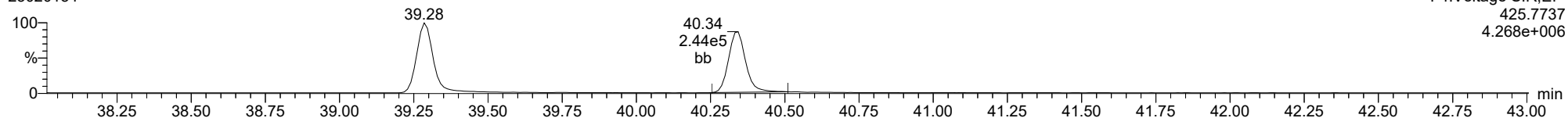
**1234678-HpCDD**

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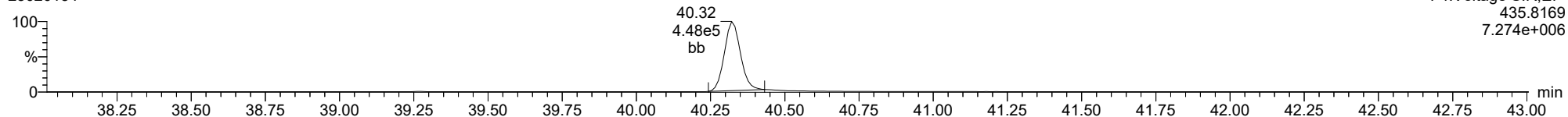
**1234678-HpCDD**

23020134



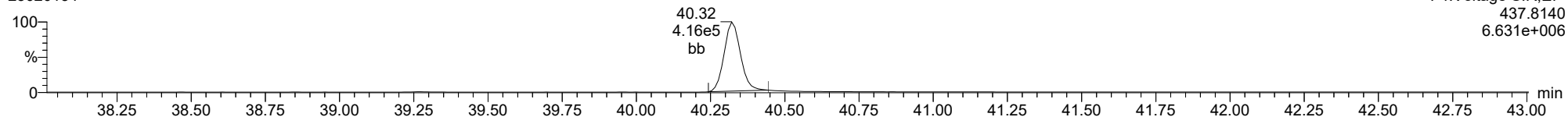
**13C-1234678-HpCDD**

23020134



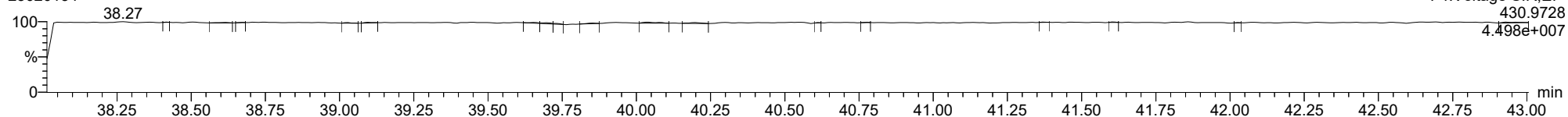
**13C-1234678-HpCDD**

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**FUNCTION4 PFK**

23020134

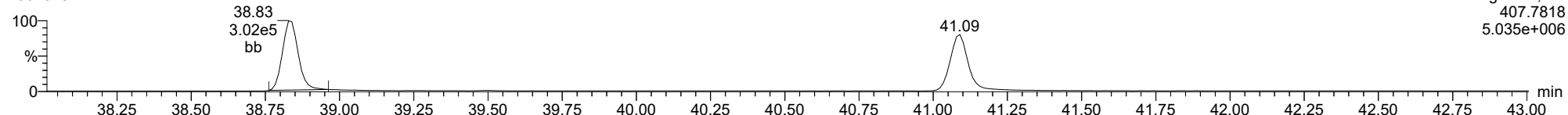




ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

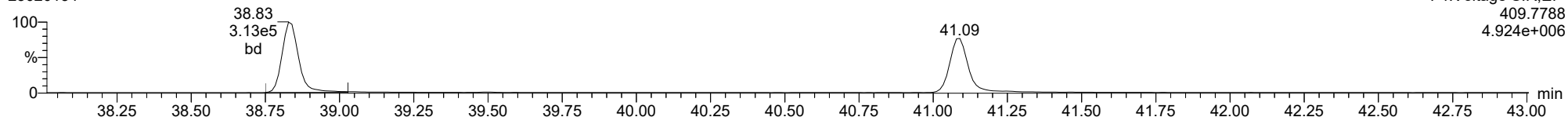
**1234678-HpCDF**

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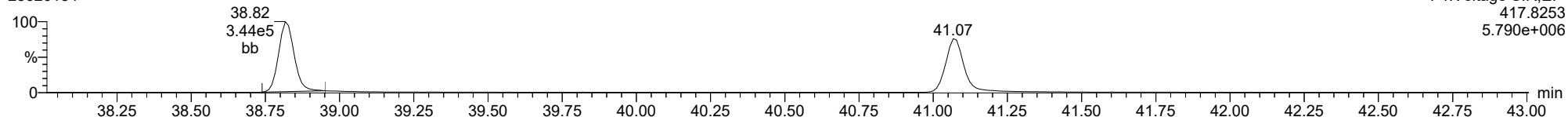
**1234678-HpCDF**

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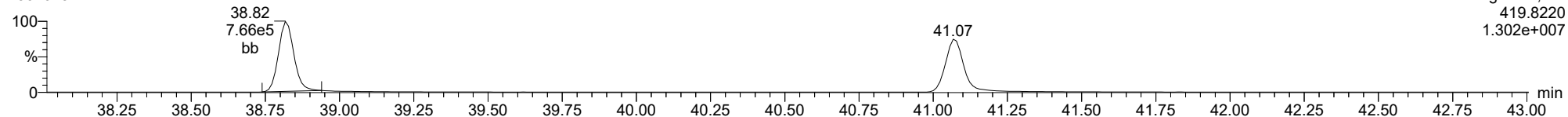
**13C-1234678-HpCDF**

23020134



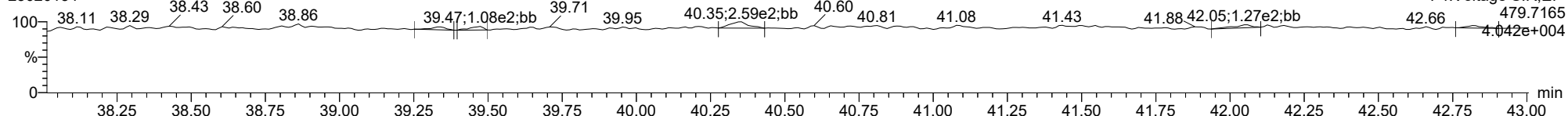
**13C-1234678-HpCDF**

23020134



**FUNCTION4 NCDPE**

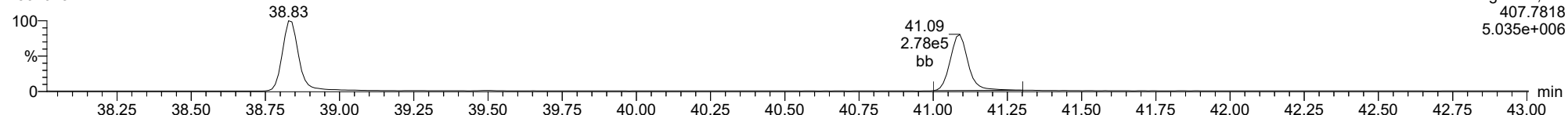
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

**1234789-HpCDF**

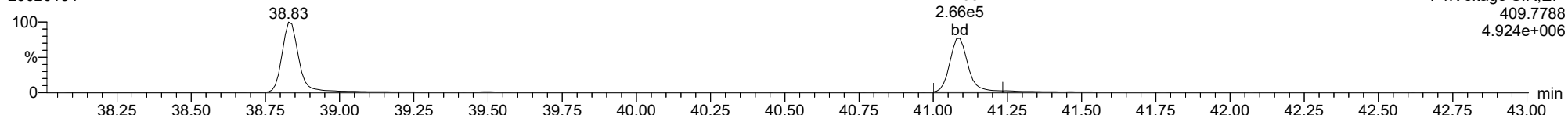
23020134



F4:Voltage SIR,El+  
407.7818  
5.035e+006

**1234789-HpCDF**

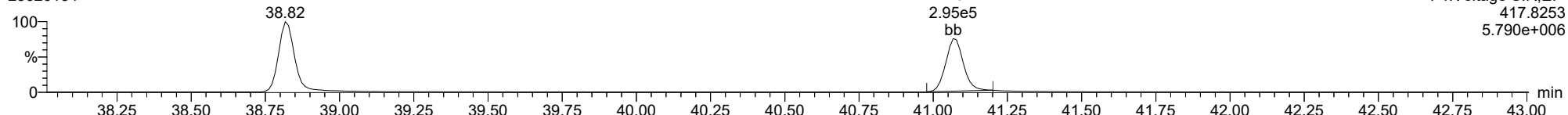
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F4:Voltage SIR,El+  
409.7788  
4.924e+006

**13C-1234789-HpCDF**

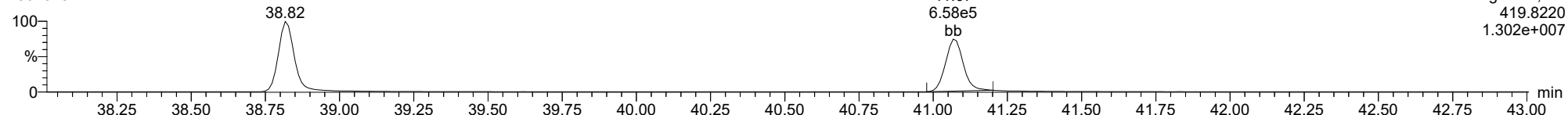
23020134



F4:Voltage SIR,El+  
417.8253  
5.790e+006

**13C-1234789-HpCDF**

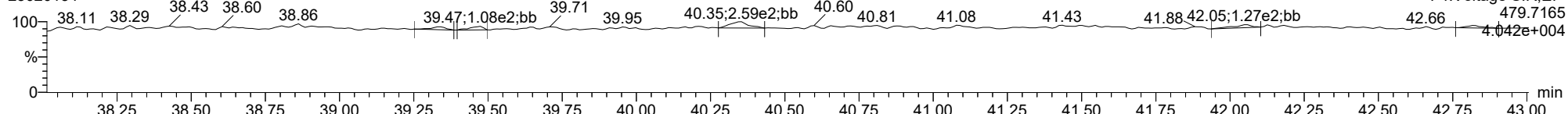
23020134



F4:Voltage SIR,El+  
419.8220  
1.302e+007

**FUNCTION4 NCDPE**

23020134

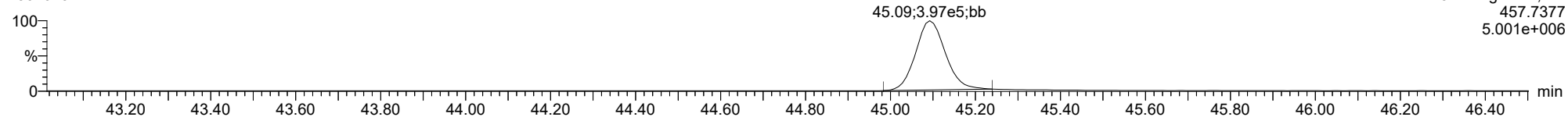


F4:Voltage SIR,El+  
479.7165  
4.042e+004

ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

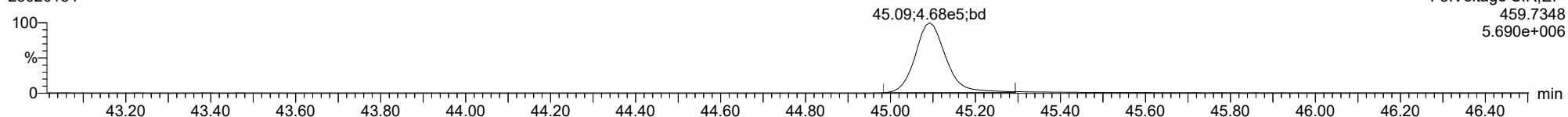
**OCDD**

23020134



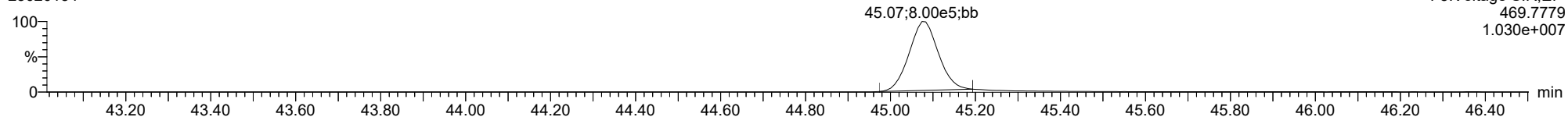
**OCDD**

23020134



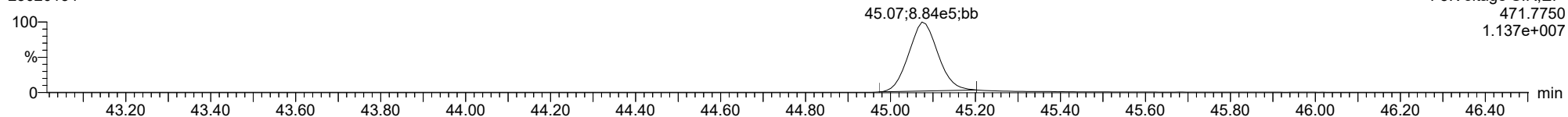
**13C-OCDD**

23020134



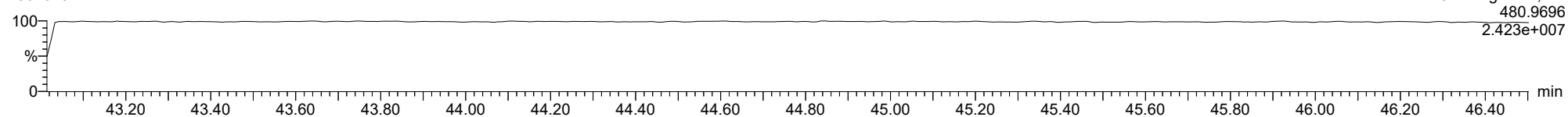
**13C-OCDD**

23020134



**FUNCTION5 PFK**

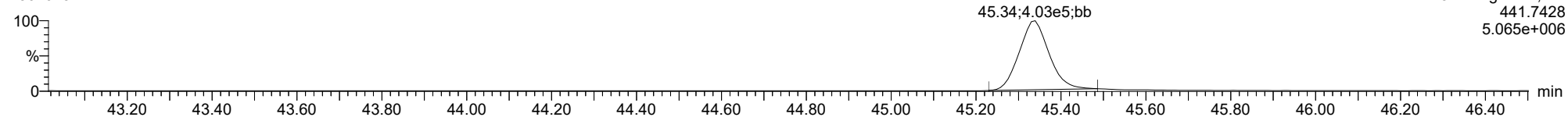
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ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

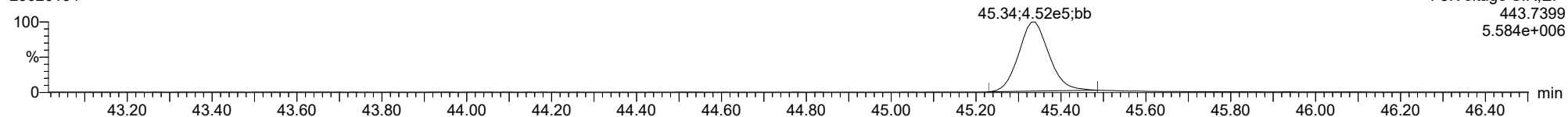
**OCDF**

23020134



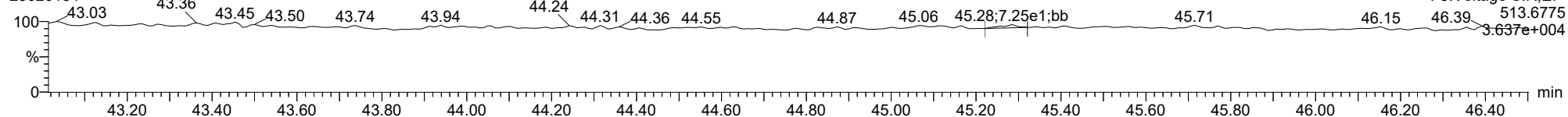
**OCDF**

23020134



**FUNCTION5 DCDPE**

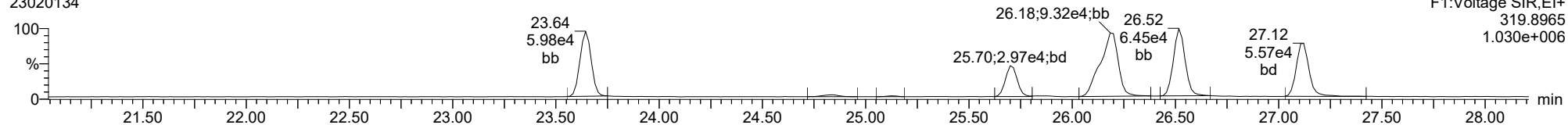
23020134



ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

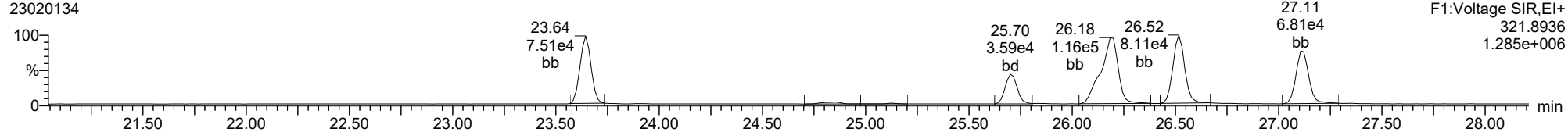
**Total-tetradoxins**

23020134



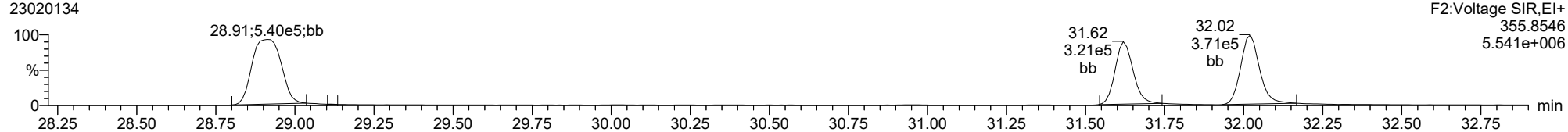
**Total-tetradoxins**

23020134



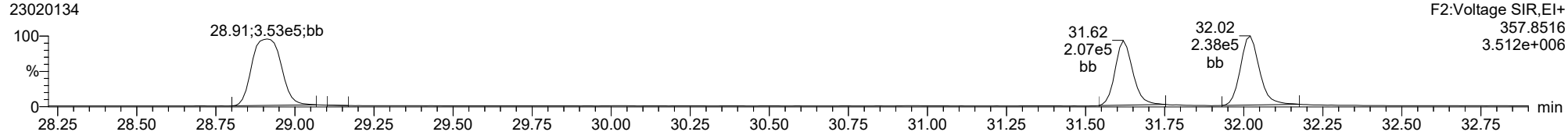
**Total-pentadoxins**

23020134



**Total-pentadoxins**

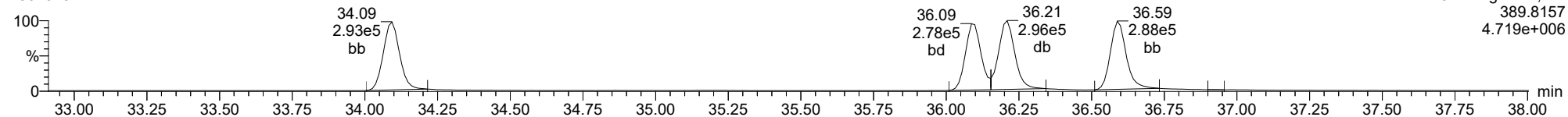
23020134



ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

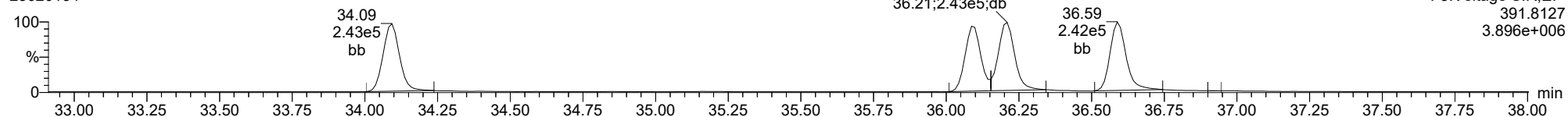
**Total-hexadioxins**

23020134



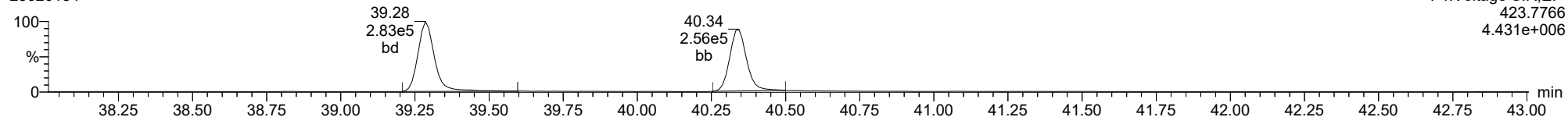
**Total-hexadioxins**

23020134



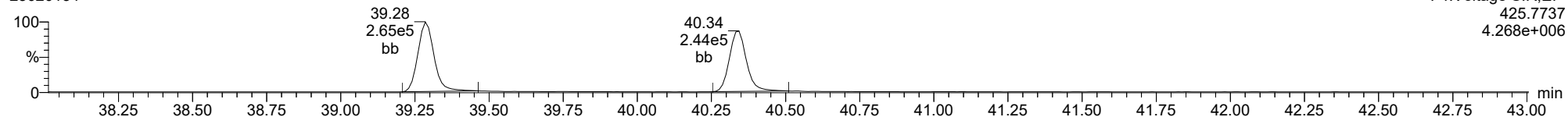
**Total-heptadioxins**

23020134



**Total-heptadioxins**

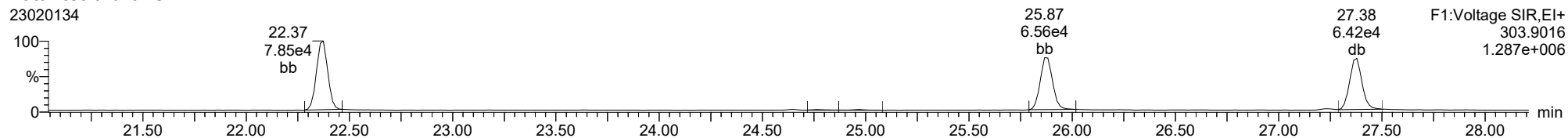
23020134



ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

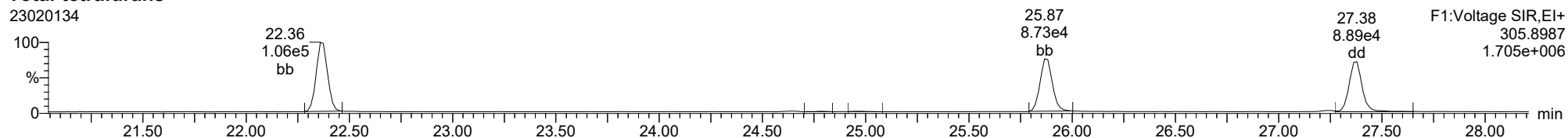
**Total-tetrafurans**

23020134



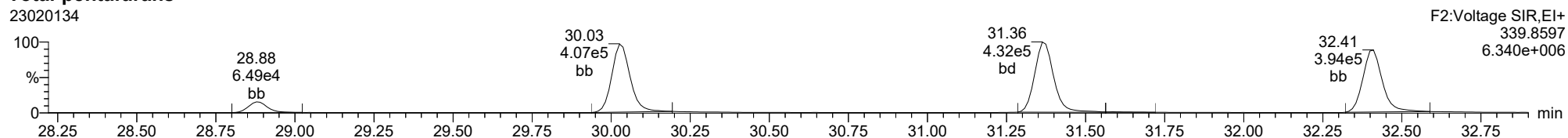
**Total-tetrafurans**

23020134



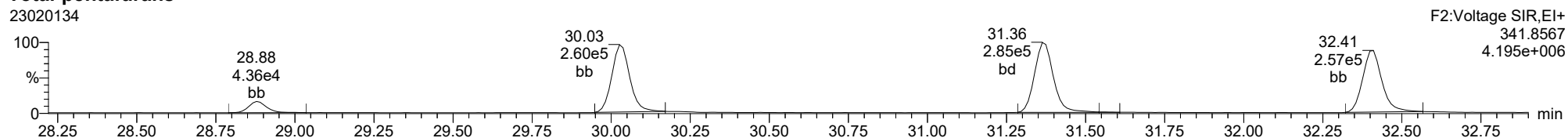
**Total-pentafurans**

23020134



**Total-pentafurans**

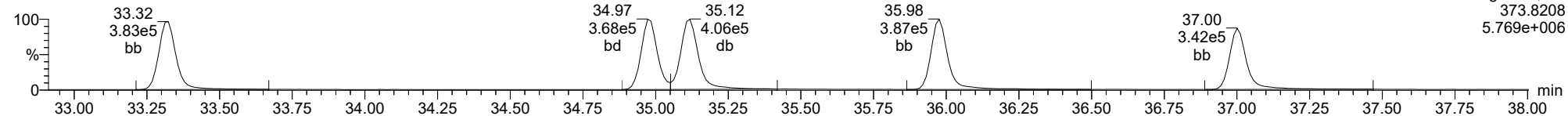
23020134



ID: CS3R4, Name: 23020134, Date: 02-Feb-2023, Time: 16:23:40, Conditions: AUTOSPEC01, User: pk

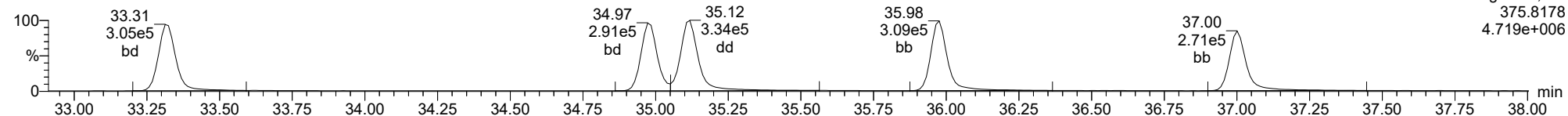
**Total-hexafurans**

23020134



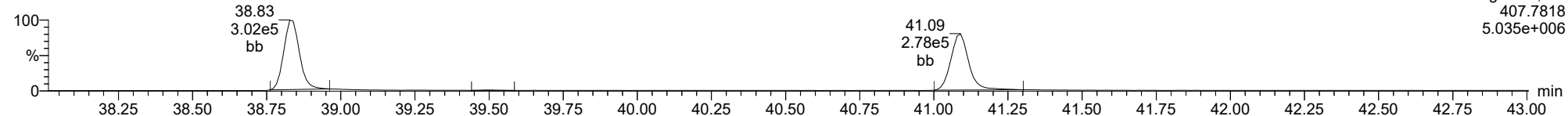
**Total-hexafurans**

23020134



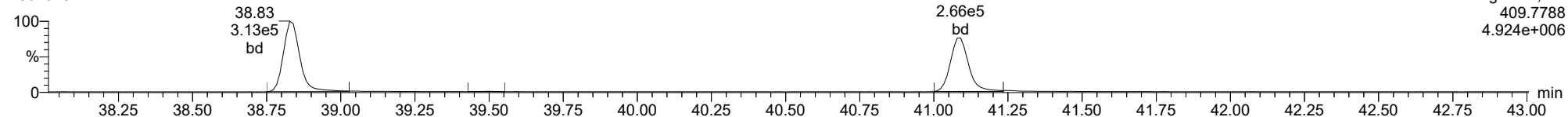
**Total-heptafurans**

23020134



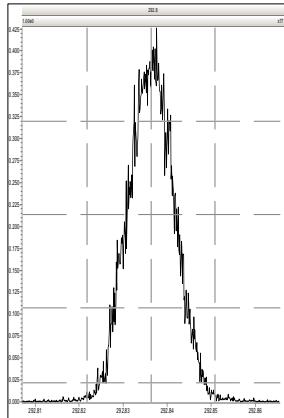
**Total-heptafurans**

23020134

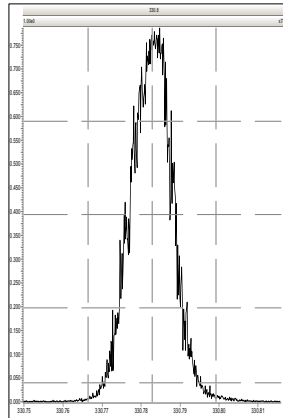




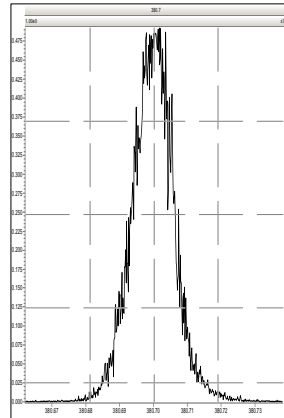
M 292.9824 R 12230



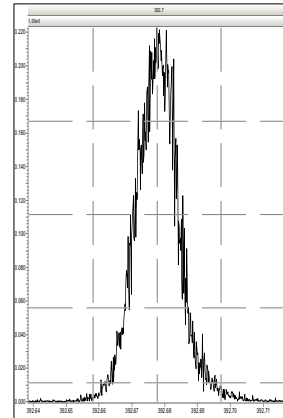
M 330.9792 R 14084



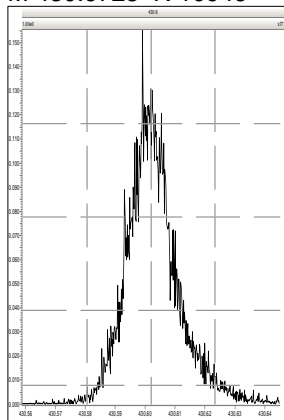
M 380.9760 R 13404



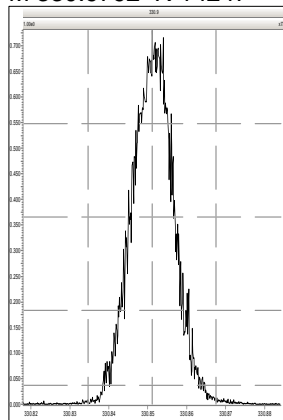
M 392.9760 R 14008



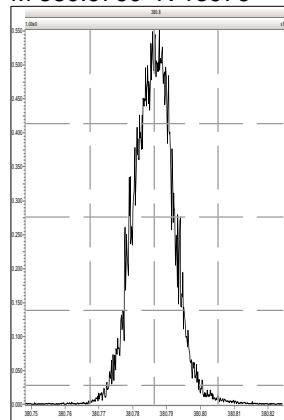
M 430.9728 R 10946



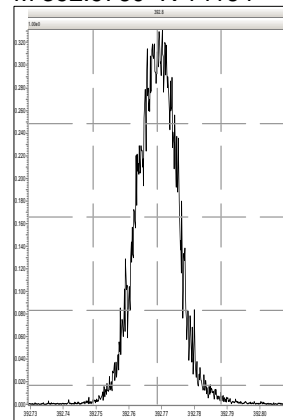
M 330.9792 R 14247



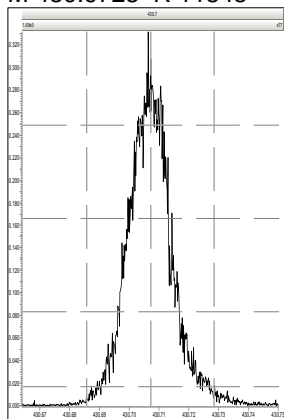
M 380.9760 R 13976



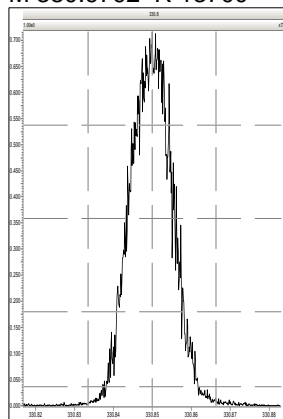
M 392.9760 R 14164



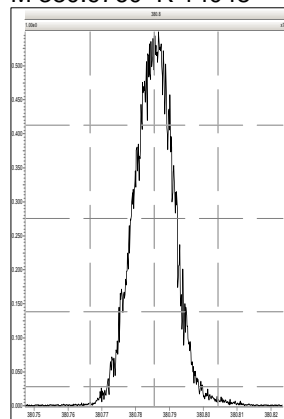
M 430.9728 R 11848



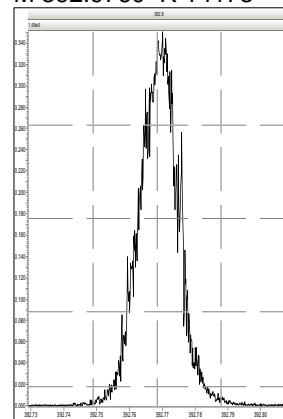
M 330.9792 R 13700



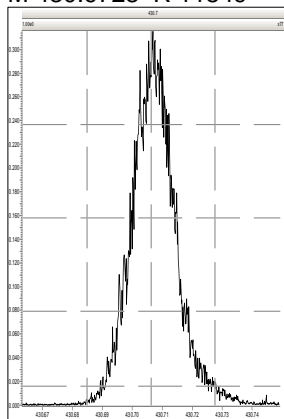
M 380.9760 R 14048



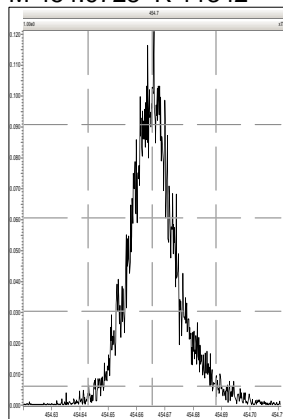
M 392.9760 R 14173



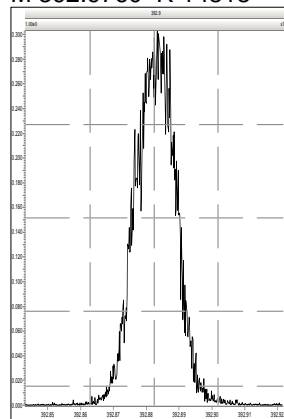
M 430.9728 R 11849



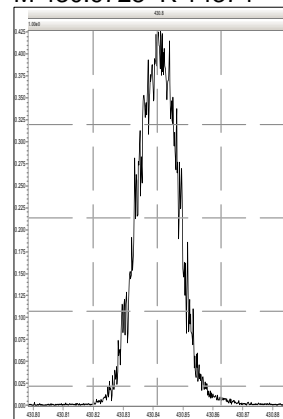
M 454.9728 R 11342



M 392.9760 R 14818

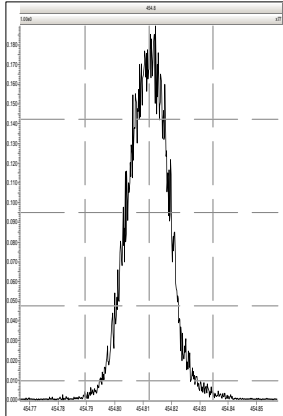


M 430.9728 R 14374

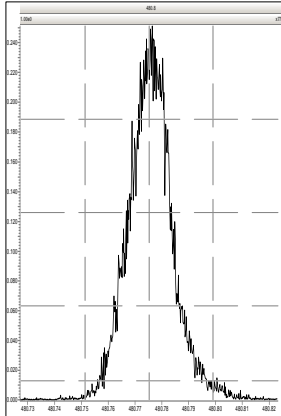


Printed: Thursday, February 02, 2023 17:17:31 Pacific Standard Time

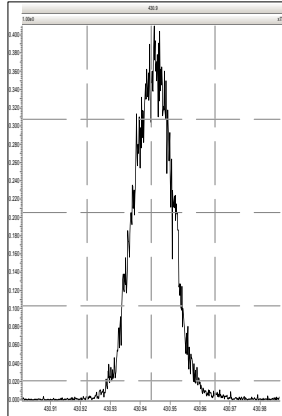
M 454.9728 R 14429



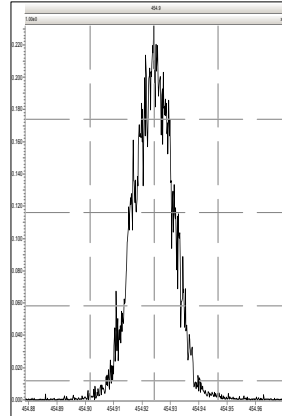
M 480.9696 R 12041



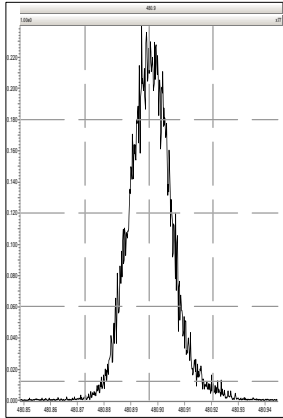
M 430.9728 R 14542



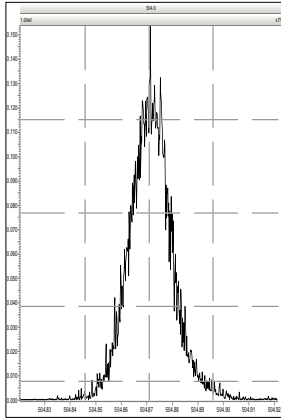
M 454.9728 R 14954



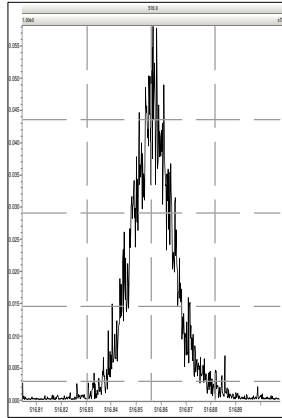
M 480.9696 R 14084



M 504.9696 R 12987



M 516.9697 R 13776

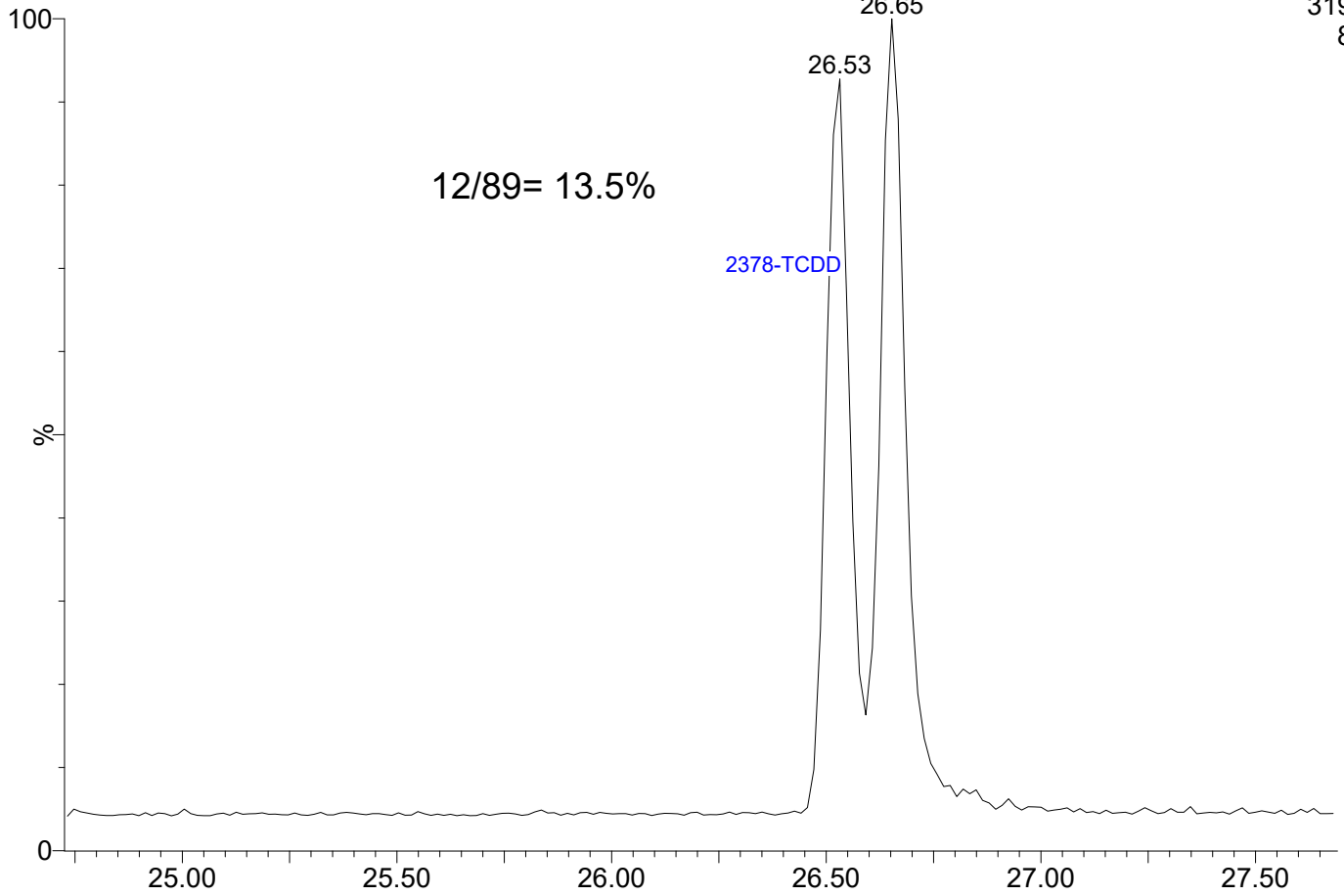


23020135

1: Voltage SIR 15 Channels EI+

319.8965

8.28e5

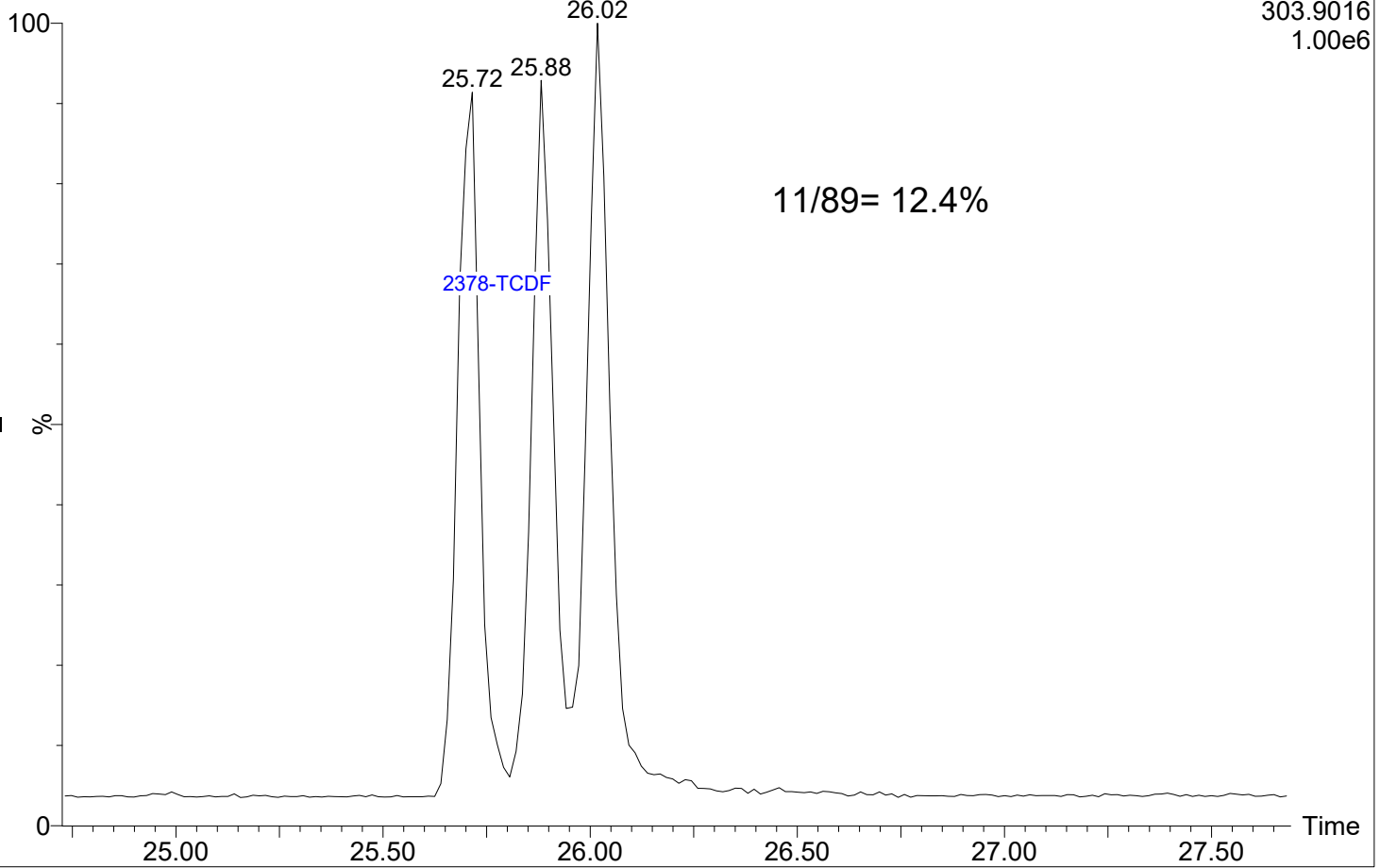


23020135

1: Voltage SIR 15 Channels EI+

303.9016

1.00e6





**CONTINUING CALIBRATION CHECK**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020111

Calibration Date: 02/01/2023

Sequence: SLB0026

Injection Date: 02/01/23

Lab Sample ID: SLB0026-CCV1

Injection Time: 21:12

Sequence Name: CS3R2

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.2	0.8760604	0.8902585		1.6	+/-16
2,3,7,8-TCDD	A	10.000	9.40	1.2363600	1.1618360		-6.0	+/-22
1,2,3,7,8-PeCDF	A	50.000	50.0	0.8446540	0.8449929		0.04	+/-18
2,3,4,7,8-PeCDF	A	50.000	50.7	0.9111780	0.9236419		1.4	+/-18
1,2,3,7,8-PeCDD	A	50.000	51.1	1.0866850	1.1111520		2.3	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.6	1.1816860	1.1728360		-0.7	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	50.9	1.2480480	1.2707090		1.8	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	52.6	1.2288500	1.2939400		5.3	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	50.4	1.1865370	1.1969780		0.9	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.3	0.9869672	0.9929396		0.6	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.0	1.0207220	1.0413320		2.0	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	50.6	0.9854780	0.9974984		1.2	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	48.3	1.2041190	1.1630460		-3.4	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	49.7	1.1653050	1.1577820		-0.6	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	45.5	1.2525690	1.1398400		-9.0	+/-14
OCDF	A	100.00	90.4	1.1862640	1.0729150		-9.6	+/-37
OCDD	A	100.00	92.8	1.1026670	1.0229970		-7.2	+/-21
13C12-2,3,7,8-TCDF	A	100.00	95.3	1.7680590	1.6841852		-4.7	+/-29
13C12-2,3,7,8-TCDD	A	100.00	103	1.1029470	1.1383762		3.2	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	97.8	1.5271250	1.4930478		-2.2	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	97.6	1.4662840	1.4306770		-2.4	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	95.1	0.9141518	0.8689207		-4.9	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	102	1.0536610	1.0736203		1.9	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	102	1.0799530	1.0977524		1.6	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	99.6	1.0143260	1.0099883		-0.4	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	101	0.9279333	0.9355105		0.8	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	100	0.9329336	0.9327825		-0.02	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	100	0.9646272	0.9644574		-0.02	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	1.0360890	1.0530458		1.6	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	104	0.9049372	0.9392673		3.8	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	103	0.7819773	0.8033582		2.7	+/-28
13C12-OCDD	A	200.00	213	0.7882343	0.8392826		6.5	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.04	1.2334500	1.1156124		-9.6	

\* Values outside of QC limits

\* Values outside of QC limits

\* Values outside of QC limits



**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020110

Calibration Date: 02/01/2023

Sequence: SLB0026

Injection Date: 02/01/23

Lab Sample ID: SLB0026-SCV1

Injection Time: 20:23

Sequence Name: ICVCR

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.80	0.8760604	0.8586768		-2.0	
2,3,7,8-TCDD	A	10.000	10.1	1.2363600	1.2492920		1.0	
1,2,3,7,8-PeCDF	A	50.000	49.4	0.8446540	0.8351133		-1.1	
2,3,4,7,8-PeCDF	A	50.000	50.7	0.9111780	0.9242915		1.4	
1,2,3,7,8-PeCDD	A	50.000	48.9	1.0866850	1.0622540		-2.2	
1,2,3,4,7,8-HxCDF	A	50.000	50.8	1.1816860	1.2014960		1.7	
1,2,3,6,7,8-HxCDF	A	50.000	51.1	1.2480480	1.2746570		2.1	
2,3,4,6,7,8-HxCDF	A	50.000	51.5	1.2288500	1.2663990		3.1	
1,2,3,7,8,9-HxCDF	A	50.000	49.9	1.1865370	1.1839220		-0.2	
1,2,3,4,7,8-HxCDD	A	50.000	51.0	0.9869672	1.0062160		2.0	
1,2,3,6,7,8-HxCDD	A	50.000	48.3	1.0207220	0.9861518		-3.4	
1,2,3,7,8,9-HxCDD	A	50.000	49.6	0.9854780	1.0444.61		-0.8	
1,2,3,4,6,7,8-HpCDF	A	50.000	49.0	1.2041190	1.1796410		-2.0	
1,2,3,4,7,8,9-HpCDF	A	50.000	51.5	1.1653050	1.1995620		2.9	
1,2,3,4,6,7,8-HpCDD	A	50.000	48.8	1.2525690	1.2236480		-2.3	
OCDF	A	100.00	93.0	1.1862640	1.1031570		-7.0	
OCDD	A	100.00	95.8	1.1026670	1.0561160		-4.2	
13C12-2,3,7,8-TCDF	A	100.00	101	1.7680590	1.7827674		0.8	
13C12-2,3,7,8-TCDD	A	100.00	97.3	1.1029470	1.0730574		-2.7	
13C12-1,2,3,7,8-PeCDF	A	100.00	97.9	1.5271250	1.4954172		-2.1	
13C12-2,3,4,7,8-PeCDF	A	100.00	96.0	1.4662840	1.4076825		-4.0	
13C12-1,2,3,7,8-PeCDD	A	100.00	95.6	0.9141518	0.8737537		-4.4	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	99.0	1.0536610	1.0427881		-1.0	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	98.8	1.0799530	1.0669191		-1.2	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	99.3	1.0143260	1.0069993		-0.7	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	98.6	0.9279333	0.9147189		-1.4	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	97.7	0.9329336	0.9118251		-2.3	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	101	0.9646272	0.9706530		0.6	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	100	1.0360890	1.0396134		0.3	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	101	0.9049372	0.9117511		0.8	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	101	0.7819773	0.7868918		0.6	
13C12-OCDD	A	200.00	205	0.7882343	0.8085897		2.6	
37C14-2,3,7,8-TCDD	A	10.000	8.94	1.2334500	1.1023697		-10.6	

\* Values outside of QC limits



CONTINUING CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GC00015

Lab File ID: 23030311

Calibration Date: 03/03/2023

Sequence: SLC0045

Injection Date: 03/03/23

Lab Sample ID: SLC0045-CCV1

Injection Time: 17:25

Sequence Name: CS3V4

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.1	0.7015272	0.7103909		1.3	+/-16
2,3,7,8-TCDD	A	10.000	9.02	1.1486620	1.0358000		-9.8	+/-22
1,2,3,7,8-PeCDF	A	50.000	47.7	0.6792300	0.6482723		-4.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	48.6	0.7861704	0.7638484		-2.8	+/-18
1,2,3,7,8-PeCDD	A	50.000	50.8	1.0218450	1.0391930		1.7	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.3	1.1660380	1.1031690		-5.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	51.4	1.0907410	1.1209930		2.8	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	52.1	1.1396990	1.1864330		4.1	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	48.9	1.1370930	1.1121660		-2.2	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.7	0.9955689	1.0094320		1.4	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.1	1.0009380	1.0234880		2.3	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	51.7	0.9071139	0.9383686		3.4	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.7	1.0029930	0.9566603		-4.6	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	53.6	0.9531152	1.0217610		7.2	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	52.7	1.0390130	1.0955650		5.4	+/-14
OCDF	A	100.00	95.0	0.7778078	0.7390842		-5.0	+/-37
OCDD	A	100.00	97.1	0.9199537	0.8937318		-2.9	+/-21
13C12-2,3,7,8-TCDF	A	100.00	89.4	1.6201960	1.4487738		-10.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	86.0	1.1524090	0.9914363		-14.0	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	92.6	1.2404520	1.1488109		-7.4	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	91.6	1.1177860	1.0240744		-8.4	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	90.8	0.8288129	0.7523463		-9.2	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	95.2	1.1683050	1.1119828		-4.8	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	91.1	1.3864660	1.2630996		-8.9	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	96.9	1.1292560	1.0940819		-3.1	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	101	0.9317541	0.9426254		1.2	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	97.6	0.9950393	0.9710534		-2.4	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	98.4	1.1566890	1.1378328		-1.6	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	0.8952017	0.9116661		1.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	84.3	0.7697516	0.6486548		-15.7	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	92.0	0.8401226	0.7731635		-8.0	+/-28
13C12-OCDD	A	200.00	170	0.7674714	0.6532994		-14.9	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	7.54	1.2878040	0.9705402		-24.6	

\* Values outside of QC limits

\* Values outside of QC limits

\* Values outside of QC limits





**SECOND-SOURCE  
CONTINUING CALIBRATION CHECK  
EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GC00015

Lab File ID: 23030310

Calibration Date: 03/03/2023

Sequence: SLC0045

Injection Date: 03/03/23

Lab Sample ID: SLC0045-SCV1

Injection Time: 16:36

Sequence Name: ICVCW

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.84	0.7015272	0.6901560		-1.6	
2,3,7,8-TCDD	A	10.000	9.81	1.1486620	1.1273700		-1.9	
1,2,3,7,8-PeCDF	A	50.000	51.4	0.6792300	0.6981249		2.8	
2,3,4,7,8-PeCDF	A	50.000	49.0	0.7861704	0.7701368		-2.0	
1,2,3,7,8-PeCDD	A	50.000	48.5	1.0218450	0.9921504		-2.9	
1,2,3,4,7,8-HxCDF	A	50.000	48.2	1.1660380	1.1251100		-3.5	
1,2,3,6,7,8-HxCDF	A	50.000	48.0	1.0907410	1.0469270		-4.0	
2,3,4,6,7,8-HxCDF	A	50.000	50.2	1.1396990	1.1448090		0.4	
1,2,3,7,8,9-HxCDF	A	50.000	49.1	1.1370930	1.1161010		-1.8	
1,2,3,4,7,8-HxCDD	A	50.000	50.8	0.9955689	1.0114830		1.6	
1,2,3,6,7,8-HxCDD	A	50.000	50.2	1.0009380	1.0044310		0.3	
1,2,3,7,8,9-HxCDD	A	50.000	51.6	0.9071139	8347.938		3.2	
1,2,3,4,6,7,8-HpCDF	A	50.000	51.8	1.0029930	1.0398620		3.7	
1,2,3,4,7,8,9-HpCDF	A	50.000	48.5	0.9531152	0.9237809		-3.1	
1,2,3,4,6,7,8-HpCDD	A	50.000	49.2	1.0390130	1.0223590		-1.6	
OCDF	A	100.00	104	0.7778078	0.8050743		3.5	
OCDD	A	100.00	99.4	0.9199537	0.9146365		-0.6	
13C12-2,3,7,8-TCDF	A	100.00	96.9	1.6201960	1.5703703		-3.1	
13C12-2,3,7,8-TCDD	A	100.00	96.6	1.1524090	1.1130294		-3.4	
13C12-1,2,3,7,8-PeCDF	A	100.00	73.2	1.2404520	0.9079224		-26.8	
13C12-2,3,4,7,8-PeCDF	A	100.00	75.9	1.1177860	0.8488817		-24.1	
13C12-1,2,3,7,8-PeCDD	A	100.00	76.6	0.8288129	0.6346243		-23.4	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	93.0	1.1683050	1.0861993		-7.0	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	98.0	1.3864660	1.3581552		-2.0	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	93.4	1.1292560	1.0544008		-6.6	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	97.9	0.9317541	0.9122440		-2.1	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	95.9	0.9950393	0.9546162		-4.1	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	97.7	1.1566890	1.1296183		-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	0.8952017	0.9144345		2.1	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	104	0.7697516	0.8001798		4.0	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	102	0.8401226	0.8609226		2.5	
13C12-OCDD	A	200.00	162	0.7674714	0.6199758		-19.2	
37C14-2,3,7,8-TCDD	A	10.000	8.71	1.2878040	1.1221835		-12.9	

\* Values outside of QC limits



CONTINUING CALIBRATION CHECK  
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GC00015

Lab File ID: 23030814

Calibration Date: 03/03/2023

Sequence: SLC0101

Injection Date: 03/08/23

Lab Sample ID: SLC0101-CCV1

Injection Time: 20:31

Sequence Name: CS3Y2

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.98	0.7015272	0.6999359		-0.2	+/-16
2,3,7,8-TCDD	A	10.000	10.0	1.1486620	1.1496160		0.08	+/-22
1,2,3,7,8-PeCDF	A	50.000	53.2	0.6792300	0.7225790		6.4	+/-18
2,3,4,7,8-PeCDF	A	50.000	49.9	0.7861704	0.7853621		-0.1	+/-18
1,2,3,7,8-PeCDD	A	50.000	53.7	1.0218450	1.0981340		7.5	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	49.8	1.1660380	1.1605790		-0.5	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	52.2	1.0907410	1.1396270		4.5	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	51.7	1.1396990	1.1792380		3.5	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	48.4	1.1370930	1.1006180		-3.2	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	49.5	0.9955689	0.9849041		-1.1	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.7	1.0009380	1.0349720		3.4	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	54.7	0.9071139	0.9931085		9.5	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	48.5	1.0029930	0.9725194		-3.0	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.7	0.9531152	0.9848619		3.3	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	51.8	1.0390130	1.0768910		3.6	+/-14
OCDF	A	100.00	93.5	0.7778078	0.7273378		-6.5	+/-37
OCDD	A	100.00	103	0.9199537	0.9438806		2.6	+/-21
13C12-2,3,7,8-TCDF	A	100.00	96.4	1.6201960	1.5611705		-3.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	100	1.1524090	1.1553650		0.3	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	135	1.2404520	1.6783619		35.3	+/-24 *
13C12-2,3,4,7,8-PeCDF	A	100.00	134	1.1177860	1.4926507		33.5	+/-23 *
13C12-1,2,3,7,8-PeCDD	A	100.00	122	0.8288129	1.0116005		22.1	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	92.1	1.1683050	1.0761851		-7.9	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	82.9	1.3864660	1.1491123		-17.1	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	91.9	1.1292560	1.0373014		-8.1	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	98.4	0.9317541	0.9168591		-1.6	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	96.0	0.9950393	0.9554082		-4.0	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	86.1	1.1566890	0.9961074		-13.9	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	112	0.8952017	1.0060524		12.4	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	107	0.7697516	0.8210311		6.7	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	105	0.8401226	0.8787721		4.6	+/-28
13C12-OCDD	A	200.00	223	0.7674714	0.8560659		11.5	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.84	1.2878040	1.1386180		-11.6	

\* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld  
 Last Altered: Thursday, March 09, 2023 11:29:10 Pacific Standard Time  
 Printed: Thursday, March 09, 2023 12:09:28 Pacific Standard Time

**Method:** T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32  
**Calibration:** T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

**ID:** CS3Y2, **Name:** 23030814, **Date:** 08-Mar-2023, **Time:** 20:31:39, **Conditions:** AUTOSPEC01, **User:** pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	3.808e4	5.157e4	0.702	0.738	0.770	838	1201	5.89e5	7.80e5	703.5	649.2	NO	bb	bb	9.977
12378-PeCDF	29.934	1.001	2.978e5	1.997e5	0.679	1.491	1.550	2981	1454	4.51e6	3.06e6	1513.6	2105.8	NO	bb	bb	53.191
23478-PeCDF	31.271	1.001	2.881e5	1.927e5	0.786	1.495	1.550	2981	1454	4.47e6	2.96e6	1498.3	2034.9	NO	bb	bb	49.949
123478-HxCDF	34.903	1.001	2.992e5	2.378e5	1.166	1.259	1.240	1978	1535	4.69e6	3.69e6	2371.4	2402.8	NO	bd	bd	49.766
234678-HxCDF	35.905	1.001	2.943e5	2.316e5	1.140	1.271	1.240	1978	1535	4.62e6	3.66e6	2334.8	2385.1	NO	bb	bb	51.735
123678-HxCDF	35.036	1.000	3.151e5	2.480e5	1.091	1.270	1.240	1978	1535	4.92e6	3.86e6	2488.9	2512.0	NO	db	db	52.241
123789-HxCDF	36.930	1.000	2.417e5	1.922e5	1.137	1.257	1.240	1978	1535	3.85e6	3.07e6	1947.1	1998.9	NO	bb	bb	48.396
1234678-HpCDF	38.780	1.000	2.110e5	2.096e5	1.003	1.007	1.050	1607	1221	3.54e6	3.45e6	2204.3	2828.5	NO	bb	bb	48.481
1234789-HpCDF	41.019	1.000	1.737e5	1.739e5	0.953	0.999	1.050	1607	1221	2.51e6	2.45e6	1564.1	2005.5	NO	bb	bb	51.665
OCDF	45.246	1.005	2.509e5	2.845e5	0.778	0.882	0.890	1207	1269	2.99e6	3.46e6	2474.8	2729.9	NO	bb	bb	93.511
2378-TCDD	26.410	1.000	4.745e4	6.151e4	1.149	0.771	0.770	1013	720	7.34e5	9.22e5	724.0	1280.8	NO	bb	bd	10.008
12378-PeCDD	31.527	1.001	2.745e5	1.812e5	1.022	1.515	1.550	1798	1889	4.18e6	2.75e6	2321.5	1457.2	NO	bb	bb	53.733
123478-HxCDD	36.017	1.000	2.256e5	1.790e5	0.996	1.260	1.240	1407	1626	3.76e6	3.00e6	2669.9	1843.4	NO	bd	bd	49.464
123678-HxCDD	36.128	1.000	2.496e5	1.937e5	1.001	1.289	1.240	1407	1626	3.85e6	3.09e6	2736.1	1903.0	NO	db	db	51.700
123789-HxCDD	36.518	1.011	2.319e5	1.848e5	0.907	1.255	1.240	1407	1626	3.80e6	3.05e6	2697.7	1873.8	NO	bb	bb	54.740
1234678-HpCDD	40.273	1.000	2.054e5	2.015e5	1.039	1.019	1.050	2389	1786	3.25e6	3.17e6	1360.3	1772.4	NO	bb	bb	51.823
OCDD	45.018	1.000	3.209e5	3.739e5	0.920	0.858	0.890	1043	2361	3.76e6	4.40e6	3602.0	1861.3	NO	bb	bb	102.601
13C-2378-TCDF	25.760	1.007	5.519e5	7.289e5	1.620	0.757	0.770	1701	1198	8.27e6	1.09e7	4861.1	9125.9	NO	bb	bb	96.357
13C-12378-PeCDF	29.911	1.169	8.218e5	5.551e5	1.240	1.481	1.550	5033	2425	1.24e7	8.30e6	2464.9	3422.7	NO	bb	bb	135.302
13C-23478-PeCDF	31.248	1.222	7.357e5	4.888e5	1.118	1.505	1.550	5033	2425	1.12e7	7.46e6	2223.9	3078.1	NO	bb	bb	133.536
13C-123478-HxCDF	34.881	0.955	3.135e5	6.119e5	1.168	0.512	0.510	1588	1870	5.02e6	9.82e6	3164.9	5249.5	NO	bd	bd	92.115
13C-123678-HxCDF	35.025	0.959	3.337e5	6.544e5	1.386	0.510	0.510	1588	1870	5.05e6	9.95e6	3179.8	5323.4	NO	db	db	82.881
13C-234678-HxCDF	35.883	0.983	3.073e5	5.847e5	1.129	0.526	0.510	1588	1870	4.93e6	9.42e6	3105.4	5036.7	NO	bb	bb	91.857
13C-123789-HxCDF	36.919	1.011	2.675e5	5.209e5	0.932	0.514	0.510	1588	1870	4.23e6	8.11e6	2662.4	4338.0	NO	bb	bb	98.401
13C-1234678-HpCDF	38.769	1.062	2.622e5	6.029e5	0.895	0.435	0.440	1367	2117	4.31e6	9.94e6	3154.2	4695.7	NO	bb	bb	112.383
13C-1234789-HpCDF	40.997	1.123	2.170e5	4.890e5	0.770	0.444	0.440	1367	2117	3.13e6	7.15e6	2290.6	3378.9	NO	bb	bb	106.662
13C-1234-TCDD	25.577	0.000	3.661e5	4.542e5	1.000	0.806	0.770	1411	922	5.85e6	7.31e6	4146.3	7926.5	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.032	4.157e5	5.321e5	1.152	0.781	0.770	1411	922	6.22e6	7.86e6	4408.1	8522.4	NO	bb	bb	100.256
13C-12378-PeCDD	31.505	1.232	5.152e5	3.147e5	0.829	1.637	1.550	940	750	7.92e6	4.87e6	8425.8	6493.7	NO	bb	bb	122.054
13C-123478-HxCDD	36.006	0.986	4.608e5	3.607e5	0.995	1.278	1.240	1185	1430	7.47e6	5.74e6	6304.4	4013.6	NO	bd	bd	96.017
13C-123678-HxCDD	36.117	0.989	4.783e5	3.782e5	1.157	1.265	1.240	1185	1430	7.74e6	6.07e6	6531.0	4243.0	NO	db	db	86.117
13C-1234678-HpCDD	40.262	1.103	3.897e5	3.659e5	0.840	1.065	1.050	1348	1391	6.01e6	5.57e6	4456.4	4006.4	NO	bb	bb	104.600
13C-OCDD	45.000	1.233	6.989e5	7.734e5	0.767	0.904	0.890	984	1076	8.14e6	9.01e6	8276.7	8377.3	NO	bb	bb	223.087
13C-123789-HxCDD	36.507	0.000	4.831e5	3.768e5	1.000	1.282	1.240	1185	1430	7.75e6	6.06e6	6539.8	4236.2	NO	bb	bb	100.000
37CL-2378-TCDD	26.410	1.033	9.341e4		1.288			1210		1.44e6		1192.3			bb		8.842

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld  
 Last Altered: Thursday, March 09, 2023 11:29:10 Pacific Standard Time  
 Printed: Thursday, March 09, 2023 12:09:28 Pacific Standard Time

ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.257	0.864	4.520e4	5.948e4	0.802	0.760	0.770	838	1201	7.37e5	9.92e5	879.7	826.1	NO	bb	bb	10.198
1289-TCDF	27.272	1.059	3.577e4	5.000e4	0.678	0.715	0.770	838	1201	5.55e5	7.54e5	662.3	628.1	NO	db	db	9.878
13468-PECDF	27.130	0.907	3.442e5	2.228e5	1.246	1.545	1.550	587	683	5.22e6	3.33e6	8893.2	4880.5	NO	bb	bb	33.034
12389-PECDF	32.307	1.080	2.575e5	1.687e5	0.496	1.527	1.550	2981	1454	3.78e6	2.51e6	1267.8	1725.8	NO	bb	bb	62.358
123468-HXCDF	33.232	0.953	3.015e5	2.402e5	1.169	1.255	1.240	1978	1535	4.57e6	3.61e6	2310.5	2354.3	NO	bb	bb	50.079
1368-TCDD	23.528	0.891	4.411e4	5.474e4	1.015	0.806	0.770	1013	720	6.88e5	8.76e5	679.1	1216.6	NO	bb	bb	10.270
1289-TCDD	27.017	1.023	4.226e4	5.171e4	0.909	0.817	0.770	1013	720	6.04e5	7.62e5	595.9	1058.2	NO	bb	bb	10.910
12479-PECDD	28.797	0.914	4.959e5	3.306e5	2.301	1.500	1.550	1798	1889	4.80e6	3.20e6	2671.7	1693.7	NO	bb	bb	43.276
12389-PECDD	31.928	1.013	3.045e5	2.012e5	1.184	1.514	1.550	1798	1889	4.52e6	3.00e6	2511.1	1586.9	NO	bb	bb	51.481
124679-HXCDD	34.012	0.945	2.384e5	1.937e5	1.115	1.230	1.240	1407	1626	3.57e6	2.93e6	2537.5	1802.7	NO	bb	bb	47.151
1234679-HPCDD	39.225	0.974	2.346e5	2.298e5	1.137	1.020	1.050	2389	1786	3.83e6	3.74e6	1603.5	2095.5	NO	bb	bb	54.059
Total-tetrafurans			1.209e5		0.727			838		1.91e6							30.512
Total-penta1			3.442e5					587		5.22e6							33.034
Total-pentafurans			8.920e5		0.654			2981		1.35e7							174.950
Total-hexafurans			1.452e6		1.141			1978		2.27e7							252.217
Total-heptafurans			3.848e5		0.978			1607		6.06e6							100.146
Total-Furans			3.445e6		0.922			838		5.23e7							684.369
Total-tetradoxins			2.245e5		1.024			1013		3.11e6							52.278
Total-pentadoxins			1.075e6		1.502			1798		1.35e7							148.490
Total-hexadoxins			9.460e5		1.005			1407		1.50e7							203.178
Total-heptadoxins			4.399e5		1.088			2389		7.08e6							105.882
Total-Dioxins			3.006e6		1.130			1013		4.24e7							612.428
Total-TEQ			6.451e6					1013		9.48e7							1296.797
FUNCTION1 PFK			2.784e5					286116		7.26e6							
FUNCTION2 PFK			3.886e7					302222		1.93e7							0.000
FUNCTION3 PFK			3.509e5					274845		9.42e6							0.000
FUNCTION4 PFK			2.904e4					249466		6.50e5							
FUNCTION5 PFK			9.116e3					145139		3.54e5							
FUNCTION1 HXCD...			8.051e2					477		1.07e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.603e2					696		1.54e4							0.000
FUNCTION3 OCDPE			7.714e2					423		1.13e4							0.000
FUNCTION4 NCDPE			0.000e0					631		0.00e0							
FUNCTION5 DCDPE			7.596e1					439		1.66e3							0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld

Last Altered: Thursday, March 09, 2023 11:29:10 Pacific Standard Time

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**Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32****Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27****ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.577e4	5.000e4	0.678	0.72	0.77	662.3	YES	NO	db	db	9.878
2	Total-tetrafurans	27.14	6.366e2	9.609e2	0.727	0.66	0.77	12.1	YES	NO	bd	bd	0.172
3	2378-TCDF	25.77	3.808e4	5.157e4	0.702	0.74	0.77	703.5	YES	NO	bb	bb	9.977
4	Total-tetrafurans	25.59	8.522e1	1.132e2	0.727	0.75	0.77	2.5	NO	NO	bb	bb	0.021
5	Total-tetrafurans	24.88	3.275e2	4.209e2	0.727	0.78	0.77	5.7	YES	NO	bb	bb	0.080
6	Total-tetrafurans	24.69	2.971e2	4.180e2	0.727	0.71	0.77	6.2	YES	NO	db	db	0.077
7	Total-tetrafurans	24.52	4.536e2	5.590e2	0.727	0.81	0.77	8.5	YES	NO	bd	bd	0.109
8	1368-TCDF	22.26	4.520e4	5.948e4	0.802	0.76	0.77	879.7	YES	NO	bb	bb	10.198

**PP**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDFF	27.13	3.442e5	2.228e5	1.246	1.54	1.55	8893.2	YES	NO	bb	bb	33.034

**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.31	2.575e5	1.687e5	0.496	1.53	1.55	1267.8	YES	NO	bb	bb	62.358
2	23478-PeCDF	31.27	2.881e5	1.927e5	0.786	1.50	1.55	1498.3	YES	NO	bb	bb	49.949
3	Total-pentafurans	30.23	2.959e2	2.205e2	0.654	1.34	1.55	3.2	YES	NO	db	bb	0.061
4	12378-PeCDF	29.93	2.978e5	1.997e5	0.679	1.49	1.55	1513.6	YES	NO	bb	bb	53.191
5	Total-pentafurans	28.79	4.827e4	3.161e4	0.654	1.53	1.55	243.3	YES	NO	bb	bb	9.391

**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HxCDF	33.23	3.015e5	2.402e5	1.169	1.26	1.24	2310.5	YES	NO	bb	bb	50.079
2	123789-HxCDF	36.93	2.417e5	1.922e5	1.137	1.26	1.24	1947.1	YES	NO	bb	bb	48.396
3	234678-HxCDF	35.91	2.943e5	2.316e5	1.140	1.27	1.24	2334.8	YES	NO	bb	bb	51.735
4	123678-HxCDF	35.04	3.151e5	2.480e5	1.091	1.27	1.24	2488.9	YES	NO	db	db	52.241
5	123478-HxCDF	34.90	2.992e5	2.378e5	1.166	1.26	1.24	2371.4	YES	NO	bd	bd	49.766

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld

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Printed: Thursday, March 09, 2023 12:09:28 Pacific Standard Time

**ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk****HPF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.02	1.737e5	1.739e5	0.953	1.00	1.05	1564.1	YES	NO	bb	bb	51.665
2	1234678-HpCDF	38.78	2.110e5	2.096e5	1.003	1.01	1.05	2204.3	YES	NO	bb	bb	48.481

**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.577e4	5.000e4	0.678	0.72	0.77	662.3	YES	NO	db	db	9.878
2	Total-tetrafurans	27.14	6.366e2	9.609e2	0.727	0.66	0.77	12.1	YES	NO	bd	bd	0.172
3	2378-TCDF	25.77	3.808e4	5.157e4	0.702	0.74	0.77	703.5	YES	NO	bb	bb	9.977
4	Total-tetrafurans	25.59	8.522e1	1.132e2	0.727	0.75	0.77	2.5	NO	NO	bb	bb	0.021
5	Total-tetrafurans	24.88	3.275e2	4.209e2	0.727	0.78	0.77	5.7	YES	NO	bb	bb	0.080
6	Total-tetrafurans	24.69	2.971e2	4.180e2	0.727	0.71	0.77	6.2	YES	NO	db	db	0.077
7	Total-tetrafurans	24.52	4.536e2	5.590e2	0.727	0.81	0.77	8.5	YES	NO	bd	bd	0.109
8	1368-TCDF	22.26	4.520e4	5.948e4	0.802	0.76	0.77	879.7	YES	NO	bb	bb	10.198
9	12389-PECDF	32.31	2.575e5	1.687e5	0.496	1.53	1.55	1267.8	YES	NO	bb	bb	62.358
10	23478-PeCDF	31.27	2.881e5	1.927e5	0.786	1.50	1.55	1498.3	YES	NO	bb	bb	49.949
11	Total-pentafurans	30.23	2.959e2	2.205e2	0.654	1.34	1.55	3.2	YES	NO	db	bb	0.061
12	12378-PeCDF	29.93	2.978e5	1.997e5	0.679	1.49	1.55	1513.6	YES	NO	bb	bb	53.191
13	Total-pentafurans	28.79	4.827e4	3.161e4	0.654	1.53	1.55	243.3	YES	NO	bb	bb	9.391
14	123468-HxCDF	33.23	3.015e5	2.402e5	1.169	1.26	1.24	2310.5	YES	NO	bb	bb	50.079
15	123789-HxCDF	36.93	2.417e5	1.922e5	1.137	1.26	1.24	1947.1	YES	NO	bb	bb	48.396
16	234678-HxCDF	35.91	2.943e5	2.316e5	1.140	1.27	1.24	2334.8	YES	NO	bb	bb	51.735
17	123678-HxCDF	35.04	3.151e5	2.480e5	1.091	1.27	1.24	2488.9	YES	NO	db	db	52.241
18	123478-HxCDF	34.90	2.992e5	2.378e5	1.166	1.26	1.24	2371.4	YES	NO	bd	bd	49.766
19	1234789-HpCDF	41.02	1.737e5	1.739e5	0.953	1.00	1.05	1564.1	YES	NO	bb	bb	51.665
20	1234678-HpCDF	38.78	2.110e5	2.096e5	1.003	1.01	1.05	2204.3	YES	NO	bb	bb	48.481
21	OCDF	45.25	2.509e5	2.845e5	0.778	0.88	0.89	2474.8	YES	NO	bb	bb	93.511
22	13468-PECDF	27.13	3.442e5	2.228e5	1.246	1.54	1.55	8893.2	YES	NO	bb	bb	33.034

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk****TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.02	4.226e4	5.171e4	0.909	0.82	0.77	595.9	YES	NO	bb	bb	10.910
2	2378-TCDD	26.41	4.745e4	6.151e4	1.149	0.77	0.77	724.0	YES	NO	bb	bd	10.008
3	Total-tetradoxins	26.09	6.857e4	8.546e4	1.024	0.80	0.77	732.2	YES	NO	bb	bb	15.866
4	Total-tetradoxins	25.59	2.193e4	2.822e4	1.024	0.78	0.77	335.3	YES	NO	bb	bd	5.166
5	Total-tetradoxins	23.81	2.291e2	3.306e2	1.024	0.69	0.77	4.3	YES	NO	bb	bb	0.058
6	1368-TCDD	23.53	4.411e4	5.474e4	1.015	0.81	0.77	679.1	YES	NO	bb	bb	10.270

**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.80	4.959e5	3.306e5	2.301	1.50	1.55	2671.7	YES	NO	bb	bb	43.276
2	12389-PECDD	31.93	3.045e5	2.012e5	1.184	1.51	1.55	2511.1	YES	NO	bb	bb	51.481
3	12378-PeCDD	31.53	2.745e5	1.812e5	1.022	1.51	1.55	2321.5	YES	NO	bb	bb	53.733

**HD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.52	2.319e5	1.848e5	0.907	1.25	1.24	2697.7	YES	NO	bb	bb	54.740
2	123678-HxCDD	36.13	2.496e5	1.937e5	1.001	1.29	1.24	2736.1	YES	NO	db	db	51.700
3	123478-HxCDD	36.02	2.256e5	1.790e5	0.996	1.26	1.24	2669.9	YES	NO	bd	bd	49.464
4	Total-hexadioxins	34.77	5.920e2	4.357e2	1.005	1.36	1.24	8.3	YES	NO	bd	bb	0.122
5	124679-HXCDD	34.01	2.384e5	1.937e5	1.115	1.23	1.24	2537.5	YES	NO	bb	bb	47.151

**HPD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	2.054e5	2.015e5	1.039	1.02	1.05	1360.3	YES	NO	bb	bb	51.823
2	1234679-HPCDD	39.23	2.346e5	2.298e5	1.137	1.02	1.05	1603.5	YES	NO	bb	bb	54.059



**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

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**ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk****Dioxins,TD,PD,HD,HPD,OD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.02	4.226e4	5.171e4	0.909	0.82	0.77	595.9	YES	NO	bb	bb	10.910
2	2378-TCDD	26.41	4.745e4	6.151e4	1.149	0.77	0.77	724.0	YES	NO	bb	bd	10.008
3	Total-tetradoxins	26.09	6.857e4	8.546e4	1.024	0.80	0.77	732.2	YES	NO	bb	bb	15.866
4	Total-tetradoxins	25.59	2.193e4	2.822e4	1.024	0.78	0.77	335.3	YES	NO	bb	bd	5.166
5	Total-tetradoxins	23.81	2.291e2	3.306e2	1.024	0.69	0.77	4.3	YES	NO	bb	bb	0.058
6	1368-TCDD	23.53	4.411e4	5.474e4	1.015	0.81	0.77	679.1	YES	NO	bb	bb	10.270
7	12479-PECDD	28.80	4.959e5	3.306e5	2.301	1.50	1.55	2671.7	YES	NO	bb	bb	43.276
8	12389-PECDD	31.93	3.045e5	2.012e5	1.184	1.51	1.55	2511.1	YES	NO	bb	bb	51.481
9	12378-PeCDD	31.53	2.745e5	1.812e5	1.022	1.51	1.55	2321.5	YES	NO	bb	bb	53.733
10	123789-HxCDD	36.52	2.319e5	1.848e5	0.907	1.25	1.24	2697.7	YES	NO	bb	bb	54.740
11	123678-HxCDD	36.13	2.496e5	1.937e5	1.001	1.29	1.24	2736.1	YES	NO	db	db	51.700
12	123478-HxCDD	36.02	2.256e5	1.790e5	0.996	1.26	1.24	2669.9	YES	NO	bd	bd	49.464
13	Total-hexadoxins	34.77	5.920e2	4.357e2	1.005	1.36	1.24	8.3	YES	NO	bd	bb	0.122
14	124679-HXCDD	34.01	2.384e5	1.937e5	1.115	1.23	1.24	2537.5	YES	NO	bb	bb	47.151
15	1234678-HpCDD	40.27	2.054e5	2.015e5	1.039	1.02	1.05	1360.3	YES	NO	bb	bb	51.823
16	1234679-HPCDD	39.23	2.346e5	2.298e5	1.137	1.02	1.05	1603.5	YES	NO	bb	bb	54.059
17	OCDD	45.02	3.209e5	3.739e5	0.920	0.86	0.89	3602.0	YES	NO	bb	bb	102.601

## Quantify Totals Report MassLynx V4.1 SCN909

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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

## TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.577e4	5.000e4	0.678	0.72	0.77	662.3	YES	NO	db	db	9.878
2	Total-tetrafurans	27.14	6.366e2	9.609e2	0.727	0.66	0.77	12.1	YES	NO	bd	bd	0.172
3	2378-TCDF	25.77	3.808e4	5.157e4	0.702	0.74	0.77	703.5	YES	NO	bb	bb	9.977
4	Total-tetrafurans	25.59	8.522e1	1.132e2	0.727	0.75	0.77	2.5	NO	NO	bb	bb	0.021
5	Total-tetrafurans	24.88	3.275e2	4.209e2	0.727	0.78	0.77	5.7	YES	NO	bb	bb	0.080
6	Total-tetrafurans	24.69	2.971e2	4.180e2	0.727	0.71	0.77	6.2	YES	NO	db	db	0.077
7	Total-tetrafurans	24.52	4.536e2	5.590e2	0.727	0.81	0.77	8.5	YES	NO	bd	bd	0.109
8	1368-TCDF	22.26	4.520e4	5.948e4	0.802	0.76	0.77	879.7	YES	NO	bb	bb	10.198
9	12389-PECDF	32.31	2.575e5	1.687e5	0.496	1.53	1.55	1267.8	YES	NO	bb	bb	62.358
10	23478-PeCDF	31.27	2.881e5	1.927e5	0.786	1.50	1.55	1498.3	YES	NO	bb	bb	49.949
11	Total-pentafurans	30.23	2.959e2	2.205e2	0.654	1.34	1.55	3.2	YES	NO	db	bb	0.061
12	12378-PeCDF	29.93	2.978e5	1.997e5	0.679	1.49	1.55	1513.6	YES	NO	bb	bb	53.191
13	Total-pentafurans	28.79	4.827e4	3.161e4	0.654	1.53	1.55	243.3	YES	NO	bb	bb	9.391
14	123468-HXCDF	33.23	3.015e5	2.402e5	1.169	1.26	1.24	2310.5	YES	NO	bb	bb	50.079
15	123789-HxCDF	36.93	2.417e5	1.922e5	1.137	1.26	1.24	1947.1	YES	NO	bb	bb	48.396
16	234678-HxCDF	35.91	2.943e5	2.316e5	1.140	1.27	1.24	2334.8	YES	NO	bb	bb	51.735
17	123678-HxCDF	35.04	3.151e5	2.480e5	1.091	1.27	1.24	2488.9	YES	NO	db	db	52.241
18	123478-HxCDF	34.90	2.992e5	2.378e5	1.166	1.26	1.24	2371.4	YES	NO	bd	bd	49.766
19	1234789-HpCDF	41.02	1.737e5	1.739e5	0.953	1.00	1.05	1564.1	YES	NO	bb	bb	51.665
20	1234678-HpCDF	38.78	2.110e5	2.096e5	1.003	1.01	1.05	2204.3	YES	NO	bb	bb	48.481
21	OCDF	45.25	2.509e5	2.845e5	0.778	0.88	0.89	2474.8	YES	NO	bb	bb	93.511
22	13468-PECDF	27.13	3.442e5	2.228e5	1.246	1.54	1.55	8893.2	YES	NO	bb	bb	33.034
23	1289-TCDD	27.02	4.226e4	5.171e4	0.909	0.82	0.77	595.9	YES	NO	bb	bb	10.910
24	2378-TCDD	26.41	4.745e4	6.151e4	1.149	0.77	0.77	724.0	YES	NO	bb	bd	10.008
25	Total-tetradiioxins	26.09	6.857e4	8.546e4	1.024	0.80	0.77	732.2	YES	NO	bb	bb	15.866
26	Total-tetradiioxins	25.59	2.193e4	2.822e4	1.024	0.78	0.77	335.3	YES	NO	bb	bd	5.166
27	Total-tetradiioxins	23.81	2.291e2	3.306e2	1.024	0.69	0.77	4.3	YES	NO	bb	bb	0.058
28	1368-TCDD	23.53	4.411e4	5.474e4	1.015	0.81	0.77	679.1	YES	NO	bb	bb	10.270
29	12479-PECDD	28.80	4.959e5	3.306e5	2.301	1.50	1.55	2671.7	YES	NO	bb	bb	43.276
30	12389-PECDD	31.93	3.045e5	2.012e5	1.184	1.51	1.55	2511.1	YES	NO	bb	bb	51.481
31	12378-PeCDD	31.53	2.745e5	1.812e5	1.022	1.51	1.55	2321.5	YES	NO	bb	bb	53.733
32	123789-HxCDD	36.52	2.319e5	1.848e5	0.907	1.25	1.24	2697.7	YES	NO	bb	bb	54.740
33	123678-HxCDD	36.13	2.496e5	1.937e5	1.001	1.29	1.24	2736.1	YES	NO	db	db	51.700
34	123478-HxCDD	36.02	2.256e5	1.790e5	0.996	1.26	1.24	2669.9	YES	NO	bd	bd	49.464
35	Total-hexadiioxins	34.77	5.920e2	4.357e2	1.005	1.36	1.24	8.3	YES	NO	bd	bb	0.122
36	124679-HXCDD	34.01	2.384e5	1.937e5	1.115	1.23	1.24	2537.5	YES	NO	bb	bb	47.151
37	1234678-HpCDD	40.27	2.054e5	2.015e5	1.039	1.02	1.05	1360.3	YES	NO	bb	bb	51.823

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld

Last Altered: Thursday, March 09, 2023 11:29:10 Pacific Standard Time

Printed: Thursday, March 09, 2023 12:09:28 Pacific Standard Time

ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234679-HPCDD	39.23	2.346e5	2.298e5	1.137	1.02	1.05	1603.5	YES	NO	bb	bb	54.059
39	OCDD	45.02	3.209e5	3.739e5	0.920	0.86	0.89	3602.0	YES	NO	bb	bb	102.601

**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.36	6.313e3					0.9	NO		bb		
2	FUNCTION1 PFK	22.53	1.519e4					1.2	NO		db		
3	FUNCTION1 PFK	22.45	2.795e4					1.3	NO		bd		
4	FUNCTION1 PFK	22.13	3.229e3					0.8	NO		bb		
5	FUNCTION1 PFK	21.99	4.367e3					0.7	NO		bb		
6	FUNCTION1 PFK	21.71	1.070e4					1.1	NO		db		
7	FUNCTION1 PFK	21.66	9.361e3					1.2	NO		dd		
8	FUNCTION1 PFK	21.57	2.635e4					1.4	NO		bd		
9	FUNCTION1 PFK	27.81	4.552e4					2.2	NO		bb		
10	FUNCTION1 PFK	27.60	4.179e3					0.8	NO		bb		
11	FUNCTION1 PFK	27.55	2.473e3					0.6	NO		bb		
12	FUNCTION1 PFK	27.41	4.815e3					0.8	NO		bb		
13	FUNCTION1 PFK	27.03	1.640e3					0.4	NO		bb		
14	FUNCTION1 PFK	26.21	5.091e3					0.7	NO		bb		
15	FUNCTION1 PFK	25.72	1.528e4					1.2	NO		bb		
16	FUNCTION1 PFK	25.39	1.442e4					1.2	NO		bb		
17	FUNCTION1 PFK	25.15	6.745e3					0.8	NO		bb		
18	FUNCTION1 PFK	24.88	2.019e4					1.4	NO		db		
19	FUNCTION1 PFK	24.83	1.236e4					1.5	NO		bd		
20	FUNCTION1 PFK	24.31	1.718e3					0.4	NO		bb		
21	FUNCTION1 PFK	24.15	1.630e4					1.5	NO		bb		
22	FUNCTION1 PFK	24.09	4.700e3					0.8	NO		bb		
23	FUNCTION1 PFK	23.90	9.829e3					1.1	NO		bb		
24	FUNCTION1 PFK	23.81	3.492e3					0.6	NO		bb		
25	FUNCTION1 PFK	27.96	6.122e3					0.9	NO		bb		

**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.01	5.545e6					25.6	YES		db		0.000
2	FUNCTION2 PFK	29.60	3.331e7					38.3	YES		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld

Last Altered: Thursday, March 09, 2023 11:29:10 Pacific Standard Time

Printed: Thursday, March 09, 2023 12:09:28 Pacific Standard Time

**ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk****PFK3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.55	7.628e3					1.1	NO		bb		0.000
2	FUNCTION3 PFK	34.00	4.191e3					0.8	NO		bb		0.000
3	FUNCTION3 PFK	33.96	1.741e3					0.6	NO		bb		0.000
4	FUNCTION3 PFK	33.78	1.571e4					1.4	NO		db		0.000
5	FUNCTION3 PFK	33.70	3.977e4					1.7	NO		dd		0.000
6	FUNCTION3 PFK	33.55	4.141e4					2.0	NO		dd		0.000
7	FUNCTION3 PFK	33.50	9.599e3					1.4	NO		bd		0.000
8	FUNCTION3 PFK	33.44	6.274e3					1.1	NO		bb		0.000
9	FUNCTION3 PFK	33.29	2.070e4					1.8	NO		bb		0.000
10	FUNCTION3 PFK	33.01	2.177e4					1.1	NO		bb		0.000
11	FUNCTION3 PFK	32.90	4.131e4					3.8	YES		bb		0.000
12	FUNCTION3 PFK	37.57	2.239e4					1.9	NO		bb		0.000
13	FUNCTION3 PFK	37.50	6.791e3					1.0	NO		bb		0.000
14	FUNCTION3 PFK	37.42	1.804e4					1.8	NO		bb		0.000
15	FUNCTION3 PFK	37.15	1.155e4					1.3	NO		bb		0.000
16	FUNCTION3 PFK	36.81	1.971e4					1.9	NO		db		0.000
17	FUNCTION3 PFK	36.76	7.038e3					1.1	NO		bd		0.000
18	FUNCTION3 PFK	36.52	1.311e4					1.8	NO		bb		0.000
19	FUNCTION3 PFK	36.27	3.390e3					0.7	NO		bb		0.000
20	FUNCTION3 PFK	36.19	9.974e3					1.3	NO		bb		0.000
21	FUNCTION3 PFK	35.63	1.072e4					1.1	NO		bb		0.000
22	FUNCTION3 PFK	35.57	1.442e3					0.5	NO		bb		0.000
23	FUNCTION3 PFK	35.47	2.937e3					0.6	NO		bb		0.000
24	FUNCTION3 PFK	35.40	1.442e3					0.5	NO		bb		0.000
25	FUNCTION3 PFK	35.09	1.252e3					0.4	NO		bb		0.000
26	FUNCTION3 PFK	34.96	7.816e3					0.8	NO		bb		0.000
27	FUNCTION3 PFK	34.92	1.302e3					0.4	NO		bb		0.000
28	FUNCTION3 PFK	37.74	1.917e3					0.6	NO		bb		0.000

**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.20	2.904e4					2.6	NO		bb		

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld

Last Altered: Thursday, March 09, 2023 11:29:10 Pacific Standard Time

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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

## PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.20	9.116e3					2.4	NO		bb		

## ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.12	1.350e2					3.4	YES		bb		0.000
2	FUNCTION1 HXCD...	26.40	1.344e2					3.9	YES		db		0.000
3	FUNCTION1 HXCD...	26.33	7.737e1					2.4	NO		dd		0.000
4	FUNCTION1 HXCD...	26.21	7.075e1					3.2	YES		bd		0.000
5	FUNCTION1 HXCD...	25.77	7.177e1					2.3	NO		bb		0.000
6	FUNCTION1 HXCD...	24.73	7.170e1					2.0	NO		bb		0.000
7	FUNCTION1 HXCD...	22.95	8.957e1					2.2	NO		bb		0.000
8	FUNCTION1 HXCD...	21.51	1.545e2					3.0	NO		bb		0.000

## ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

## ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.31	7.179e1					1.7	NO		bd		0.000
2	FUNCTION2 HPCD...	32.60	8.116e1					3.0	YES		bb		0.000
3	FUNCTION2 HPCD...	31.52	1.255e2					3.7	YES		bb		0.000
4	FUNCTION2 HPCD...	31.27	1.303e2					2.6	NO		bb		0.000
5	FUNCTION2 HPCD...	31.13	2.957e2					7.0	YES		bb		0.000
6	FUNCTION2 HPCD...	30.65	7.919e1					1.8	NO		bb		0.000
7	FUNCTION2 HPCD...	29.44	7.668e1					2.4	NO		db		0.000

## ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.53	2.496e2					7.3	YES		bb		0.000
2	FUNCTION3 OCDPE	36.13	2.164e2					6.8	YES		db		0.000
3	FUNCTION3 OCDPE	35.99	1.098e2					3.4	YES		bd		0.000
4	FUNCTION3 OCDPE	35.09	1.010e2					6.4	YES		db		0.000
5	FUNCTION3 OCDPE	35.04	9.468e1					3.0	NO		bd		0.000

**Quantify Totals Report MassLynx MassLynx V4.1 SCN909**

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld

Last Altered: Thursday, March 09, 2023 11:29:10 Pacific Standard Time

Printed: Thursday, March 09, 2023 12:09:28 Pacific Standard Time

ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

**ETHERS5**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

**ETHERS6**

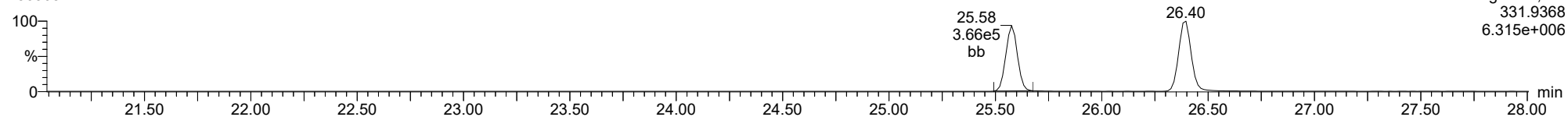
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	42.69	7.596e1					3.8	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230308.mdb 08 Mar 2023 14:02:32  
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

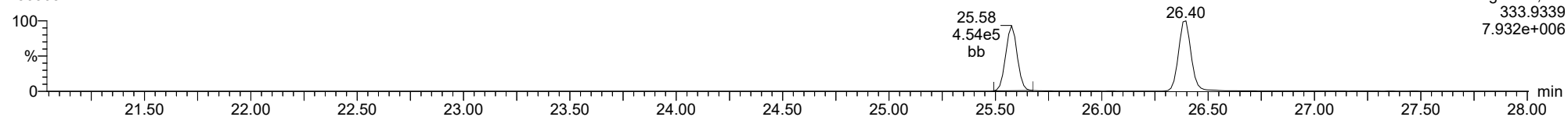
**13C-1234-TCDD**

23030814



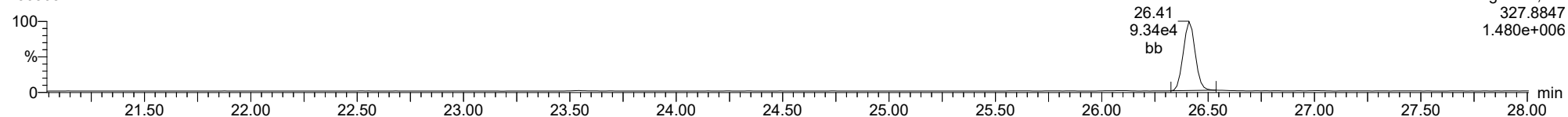
**13C-1234-TCDD**

23030814



**37CL-2378-TCDD**

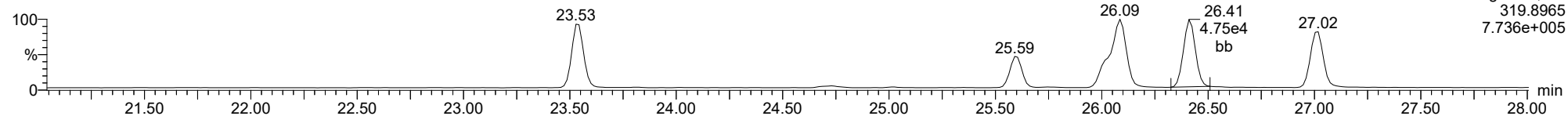
23030814



ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

**2378-TCDD**

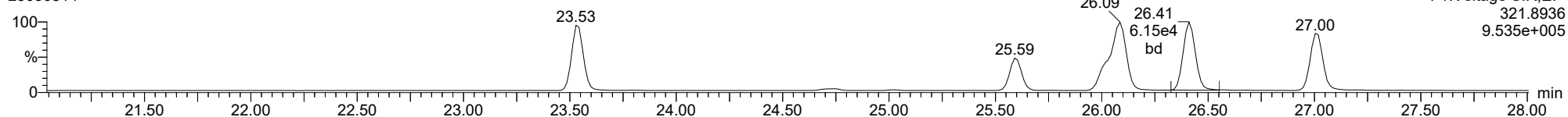
23030814



F1:Voltage SIR,EI+  
319.8965  
7.736e+005

**2378-TCDD**

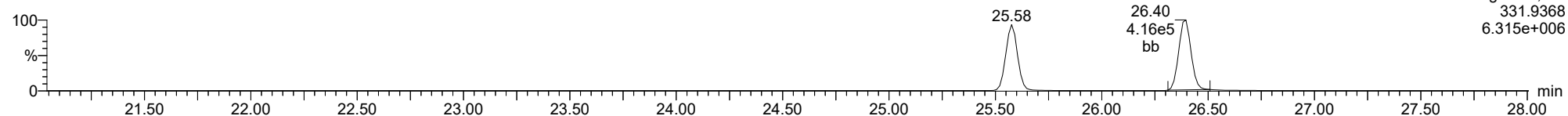
23030814



F1:Voltage SIR,EI+  
321.8936  
9.535e+005

**13C-2378-TCDD**

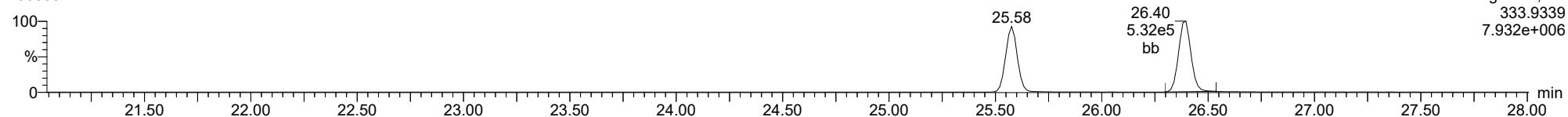
23030814



F1:Voltage SIR,EI+  
331.9368  
6.315e+006

**13C-2378-TCDD**

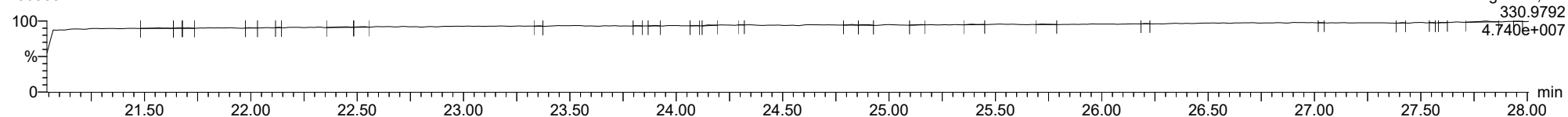
23030814



F1:Voltage SIR,EI+  
333.9339  
7.932e+006

**FUNCTION1 PFK**

23030814



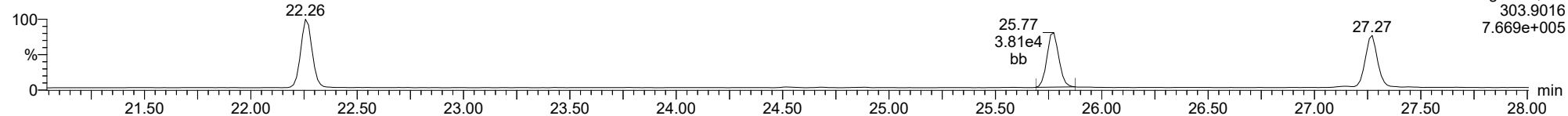
F1:Voltage SIR,EI+  
330.9792  
4.740e+007



ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

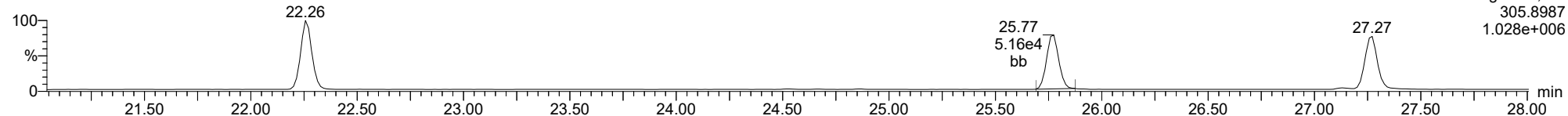
**2378-TCDF**

23030814



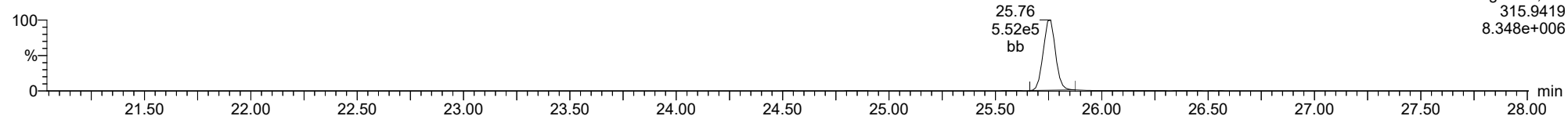
**2378-TCDF**

23030814



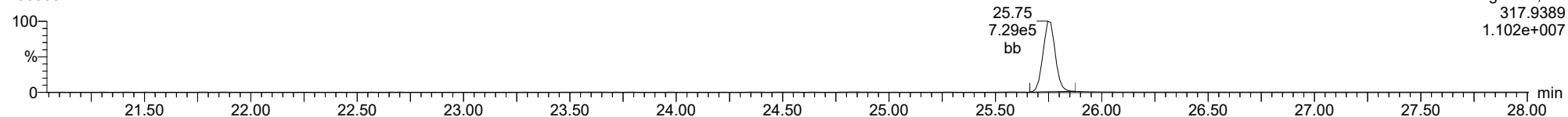
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23030814



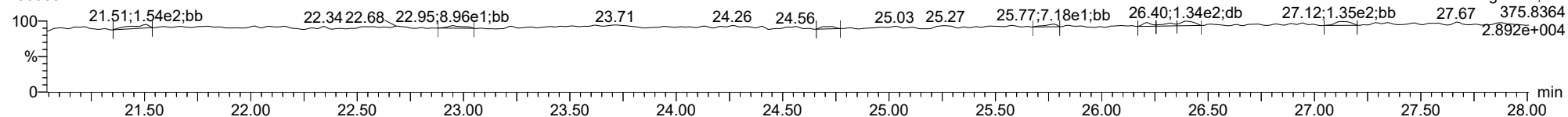
**13C-2378-TCDF**

23030814



**FUNCTION1 HXCDFE**

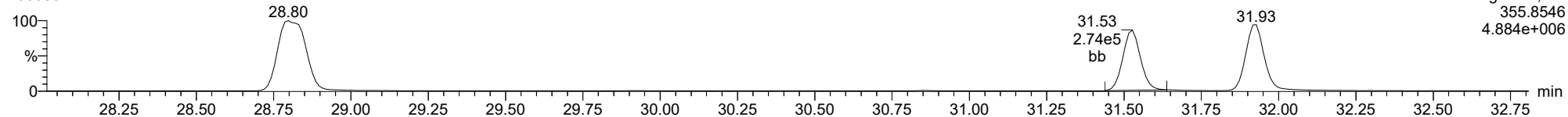
23030814



ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

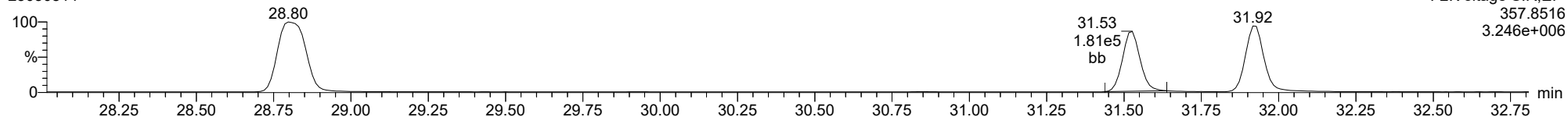
**12378-PeCDD**

23030814



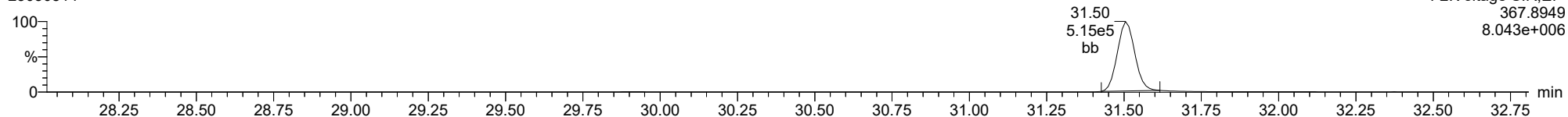
**12378-PeCDD**

23030814



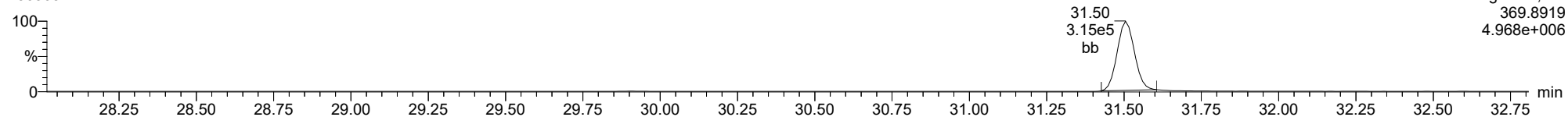
**13C-12378-PeCDD**

23030814



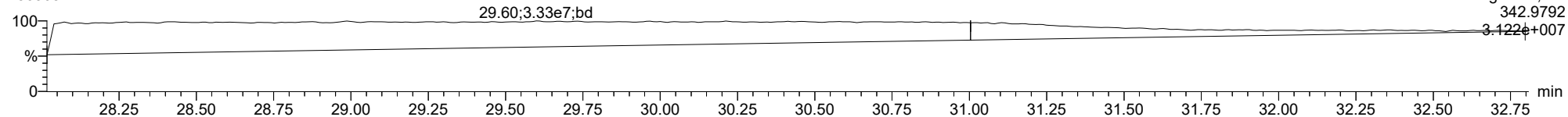
**13C-12378-PeCDD**

23030814



**FUNCTION2 PFK**

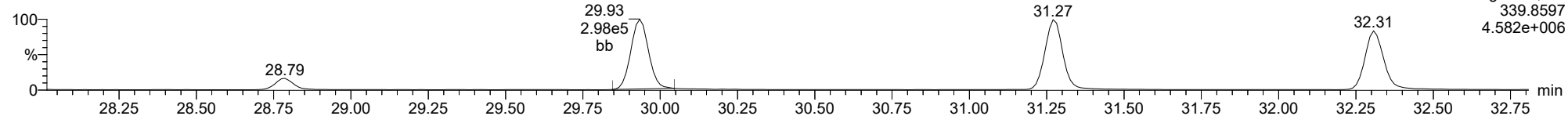
23030814



ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

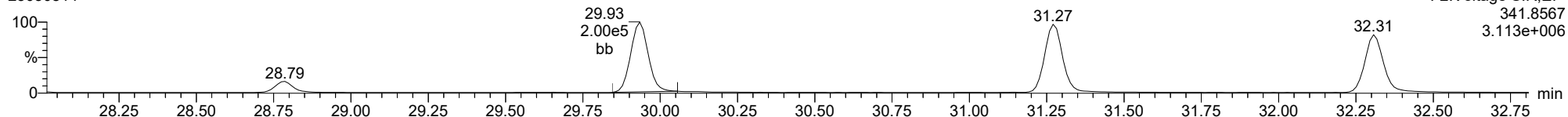
**12378-PeCDF**

23030814



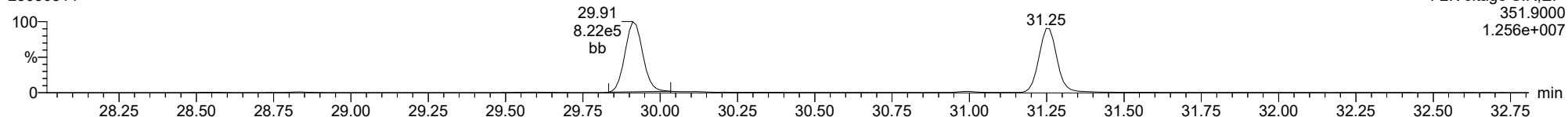
**12378-PeCDF**

23030814



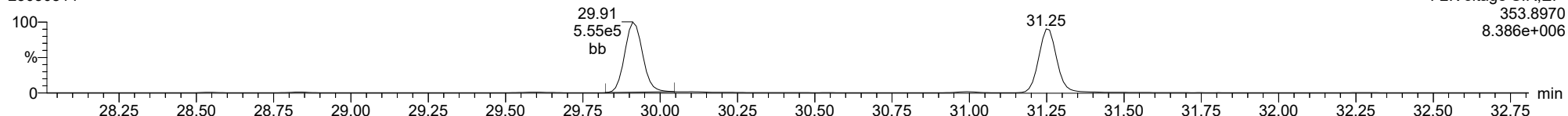
**13C-12378-PeCDF**

23030814



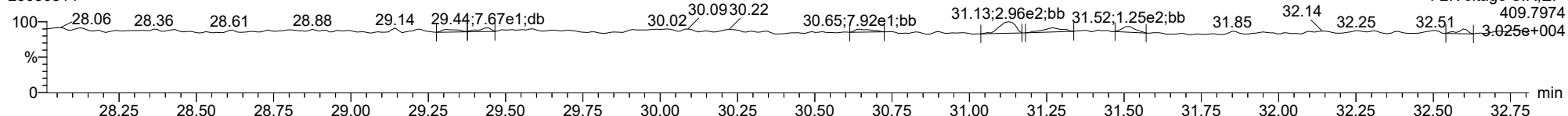
**13C-12378-PeCDF**

23030814



**FUNCTION2 HPCDPE**

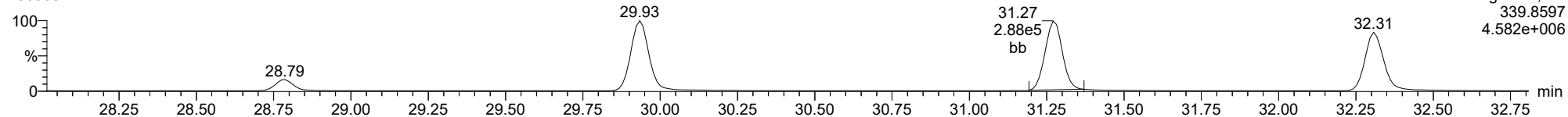
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

**23478-PeCDF**

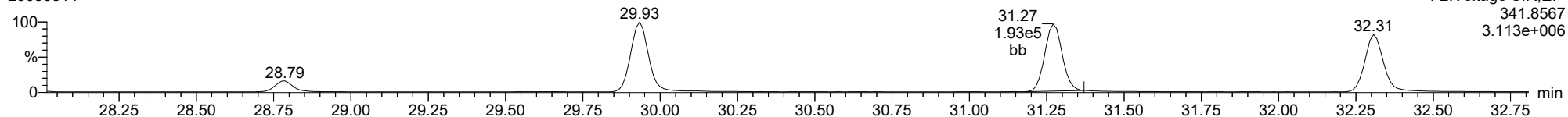
23030814



F2:Voltage SIR,EI+  
339.8597  
4.582e+006

**23478-PeCDF**

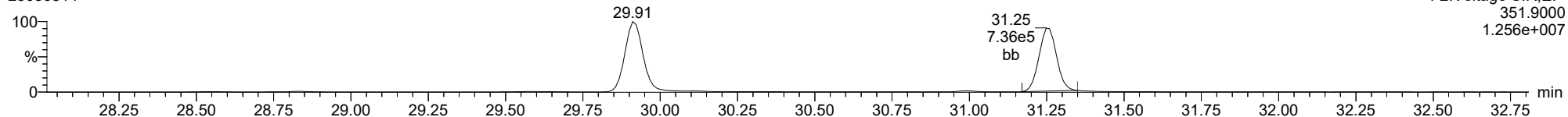
23030814



F2:Voltage SIR,EI+  
341.8567  
3.113e+006

**13C-23478-PeCDF**

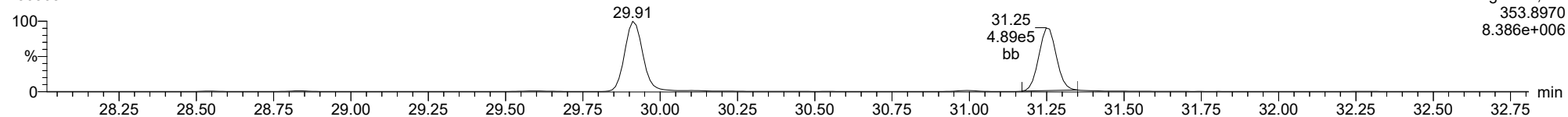
23030814



F2:Voltage SIR,EI+  
351.9000  
1.256e+007

**13C-23478-PeCDF**

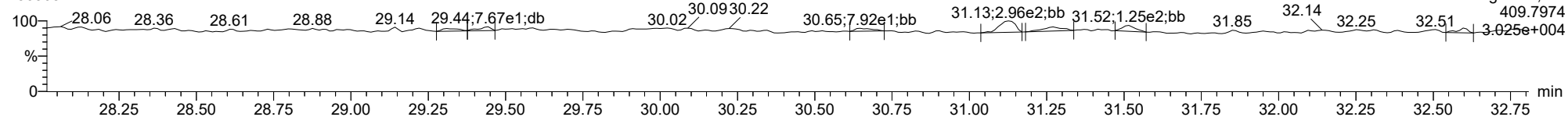
23030814



F2:Voltage SIR,EI+  
353.8970  
8.386e+006

**FUNCTION2 HPCDPE**

23030814

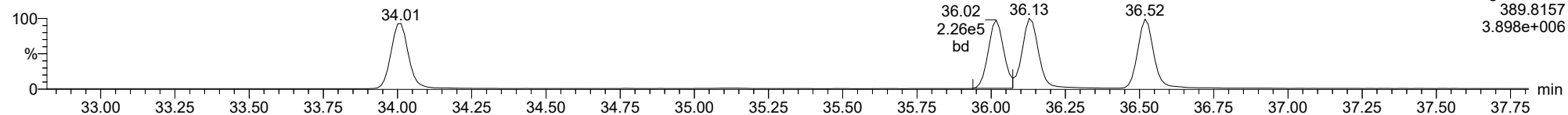


F2:Voltage SIR,EI+  
409.7974  
3.025e+004

ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

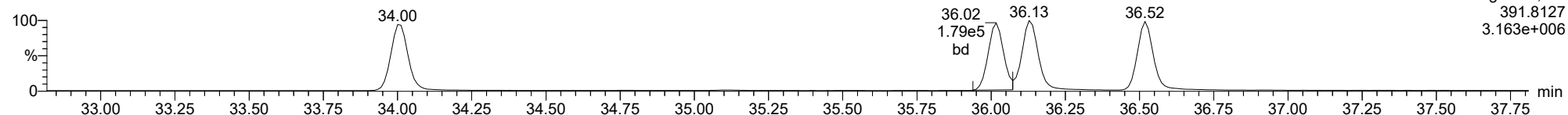
123478-HxCDD

23030814



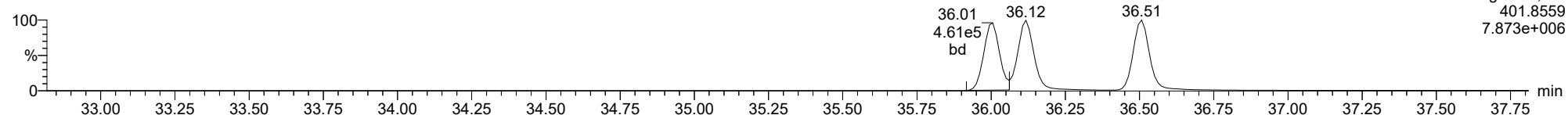
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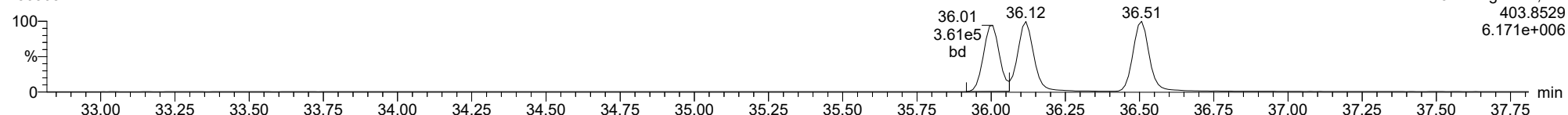
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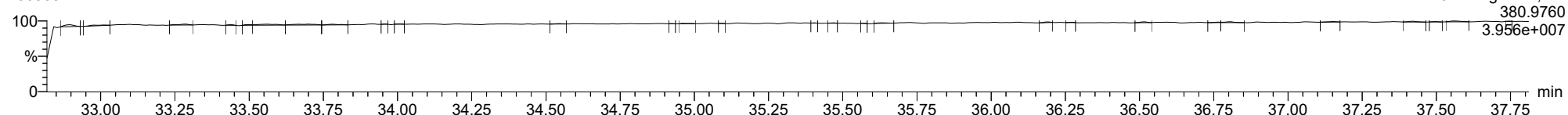
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23030814



FUNCTION3 PFK

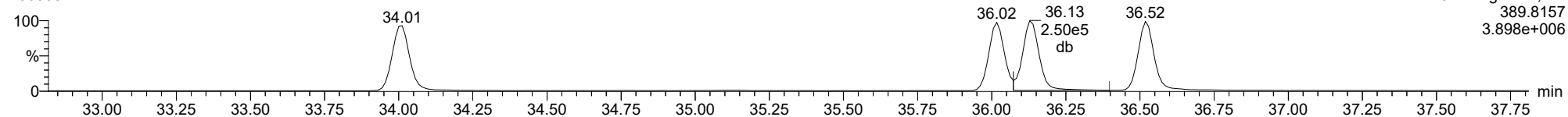
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

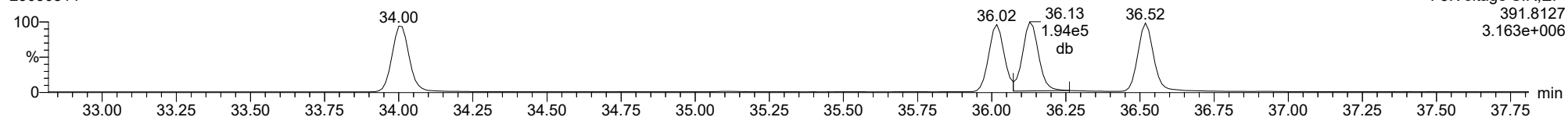
**123678-HxCDD**

23030814



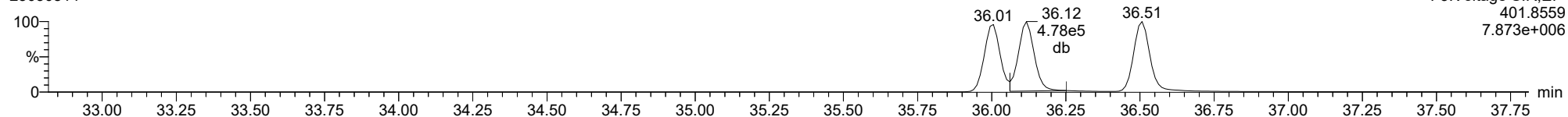
**123678-HxCDD**

23030814



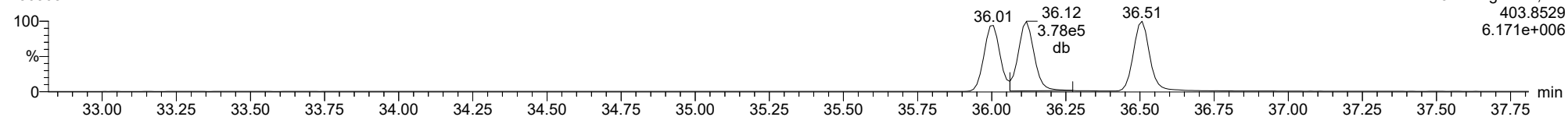
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23030814



**13C-123678-HxCDD**

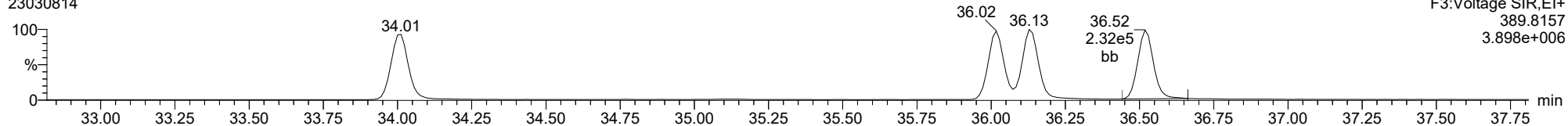
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

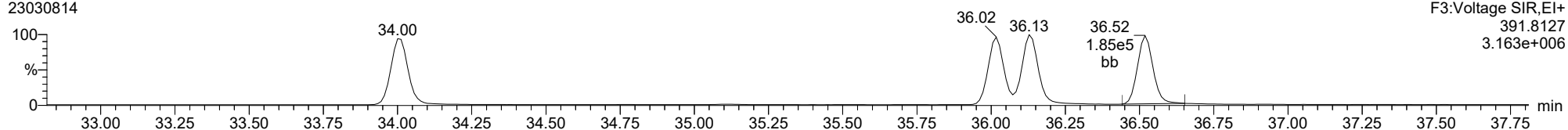
**123789-HxCDD**

23030814



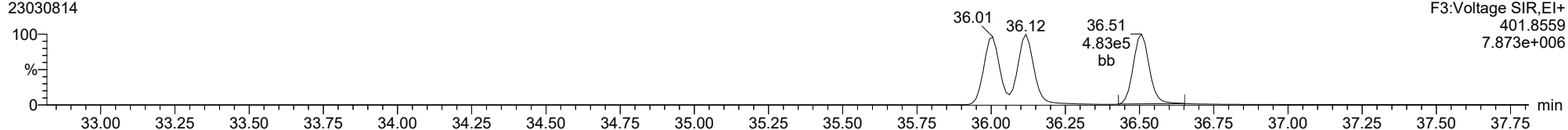
**123789-HxCDD**

23030814



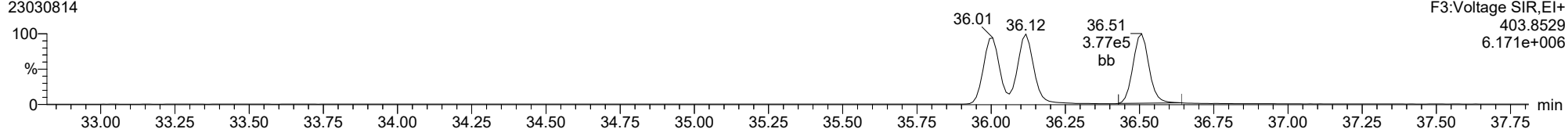
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**13C-123789-HxCDD**

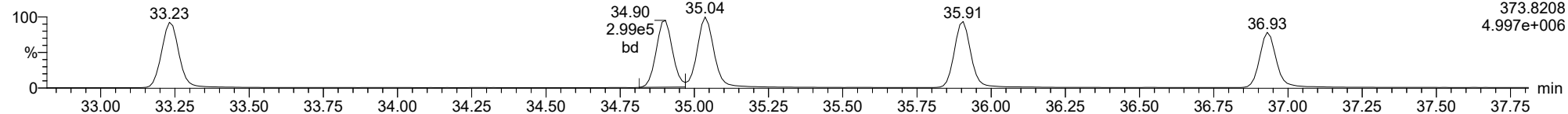
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

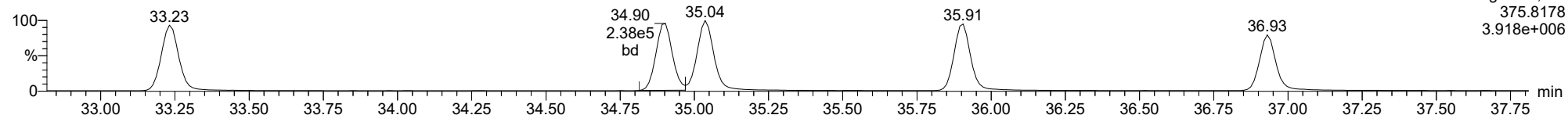
123478-HxCDF

23030814



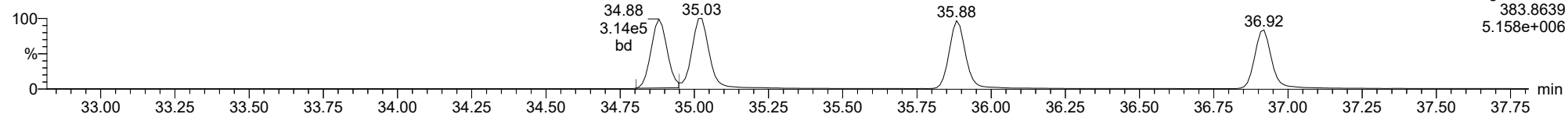
123478-HxCDF

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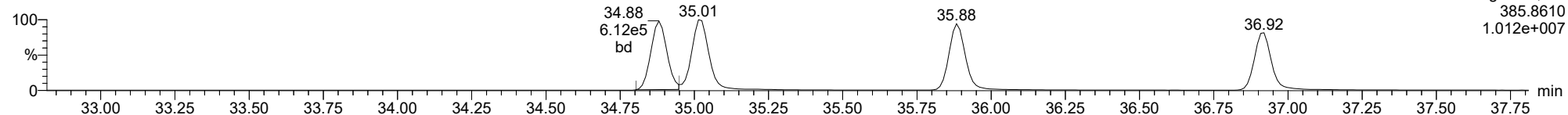
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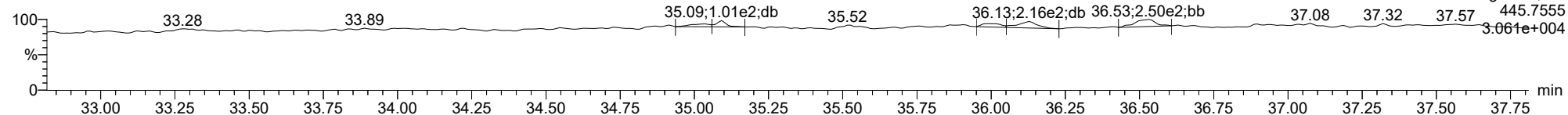
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23030814



FUNCTION3 OCDPE

23030814

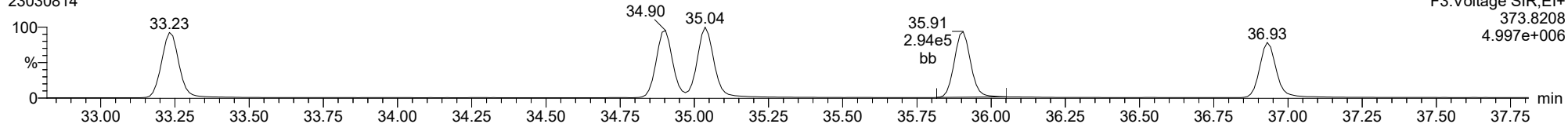




ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

**234678-HxCDF**

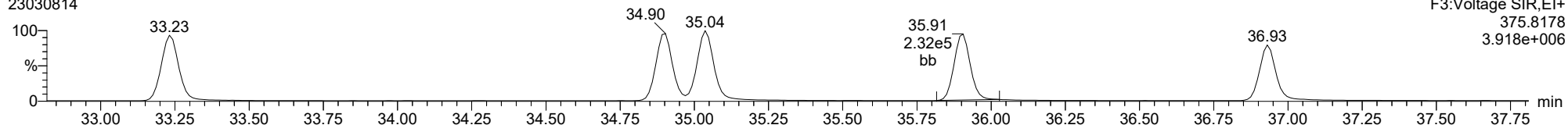
23030814



F3:Voltage SIR,EI+  
373.8208  
4.997e+006

**234678-HxCDF**

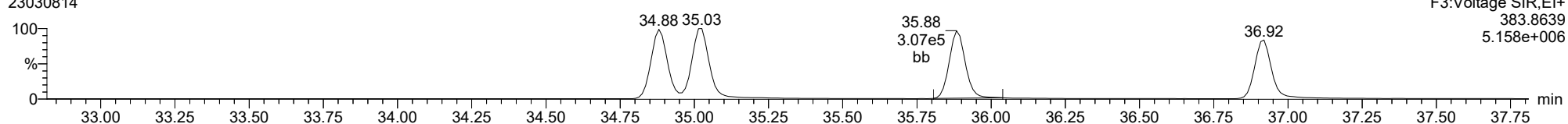
23030814



F3:Voltage SIR,EI+  
375.8178  
3.918e+006

**13C-234678-HxCDF**

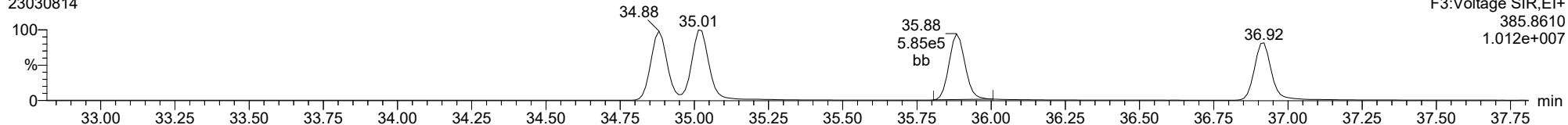
23030814



F3:Voltage SIR,EI+  
383.8639  
5.158e+006

**13C-234678-HxCDF**

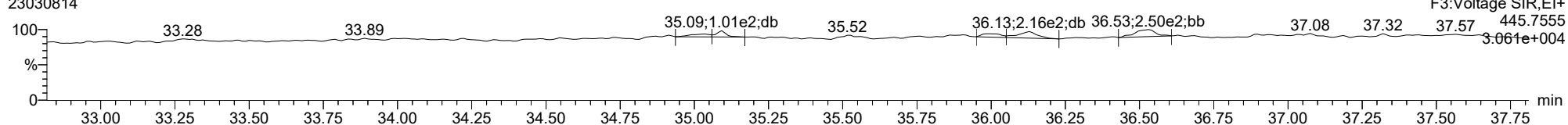
23030814



F3:Voltage SIR,EI+  
385.8610  
1.012e+007

**FUNCTION3 OCDPE**

23030814

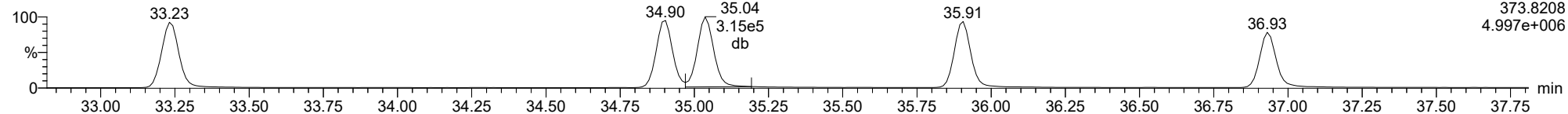


F3:Voltage SIR,EI+  
445.7555  
3.061e+004

ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

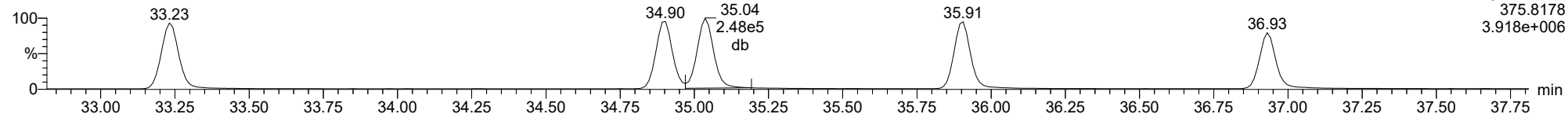
123678-HxCDF

23030814



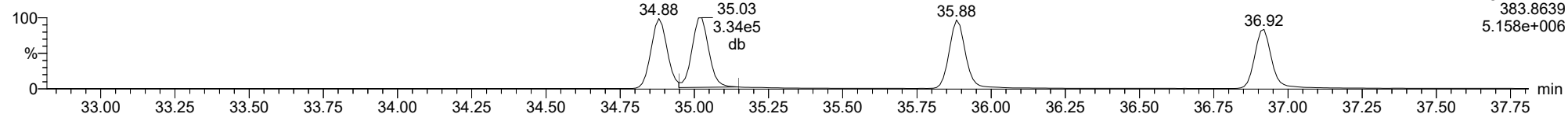
123678-HxCDF

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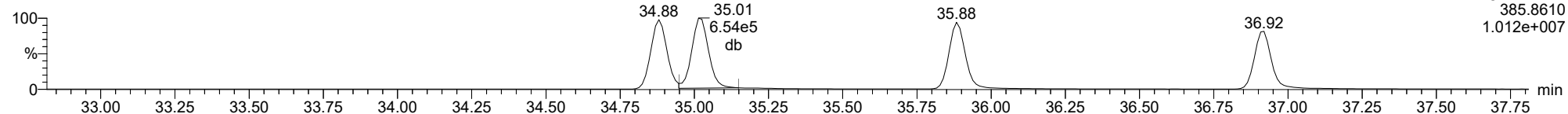
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23030814



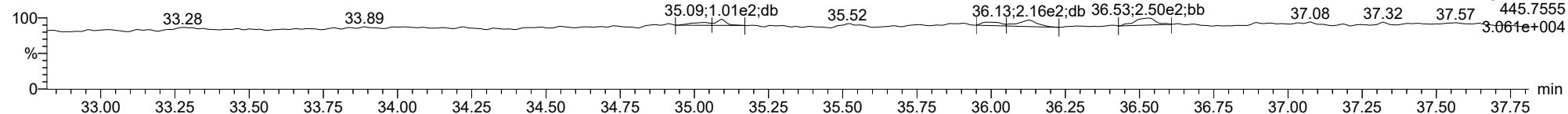
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FUNCTION3 OCDPE

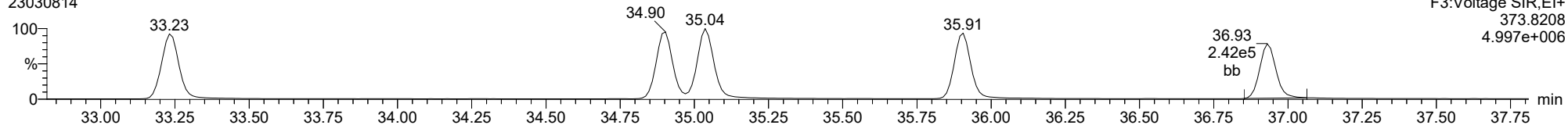
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

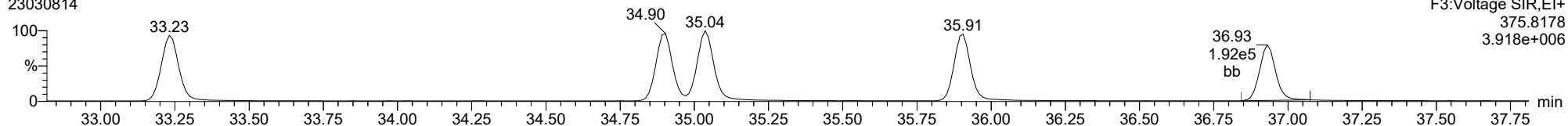
123789-HxCDF

23030814



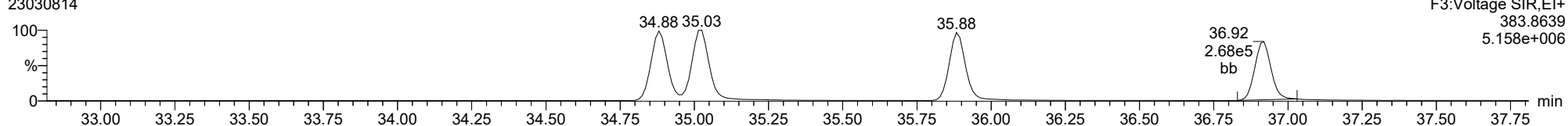
123789-HxCDF

23030814



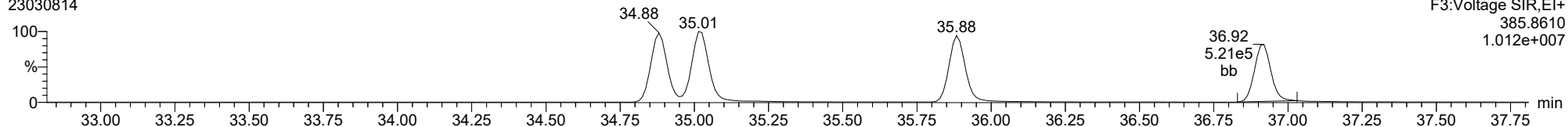
13C-123789-HxCDF

23030814



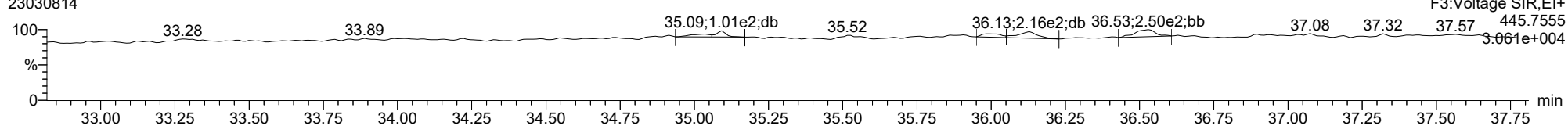
13C-123789-HxCDF

23030814



FUNCTION3 OCDPE

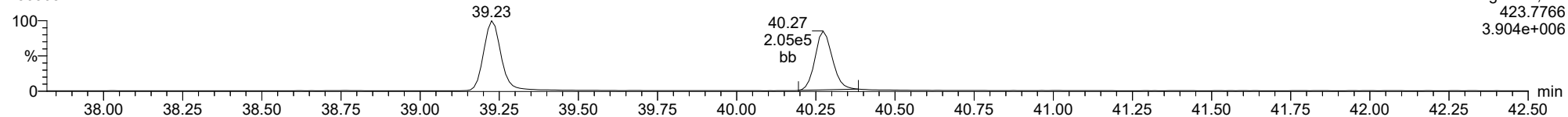
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

**1234678-HpCDD**

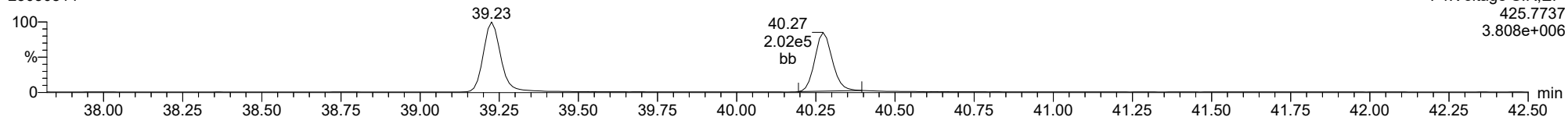
23030814



F4:Voltage SIR,EI+  
423.7766  
3.904e+006

**1234678-HpCDD**

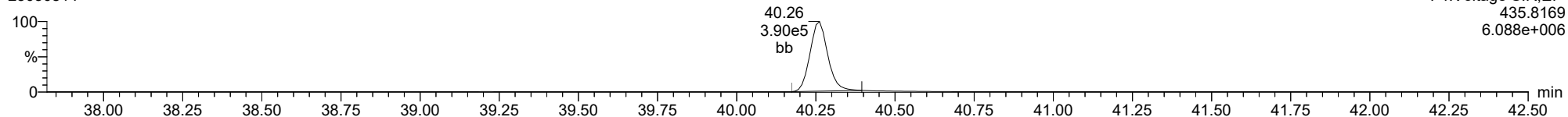
23030814



F4:Voltage SIR,EI+  
425.7737  
3.808e+006

**13C-1234678-HpCDD**

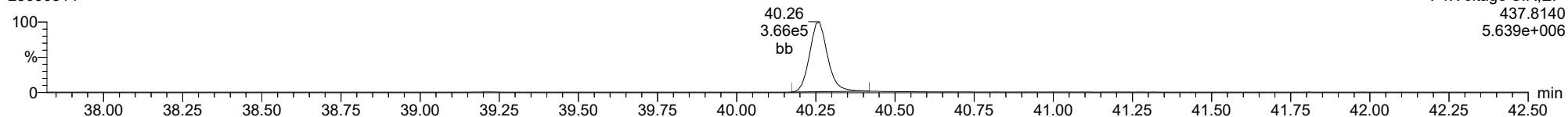
23030814



F4:Voltage SIR,EI+  
435.8169  
6.088e+006

**13C-1234678-HpCDD**

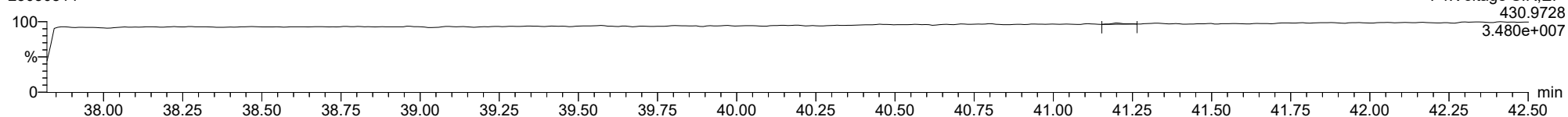
23030814



F4:Voltage SIR,EI+  
437.8140  
5.639e+006

**FUNCTION4 PFK**

23030814

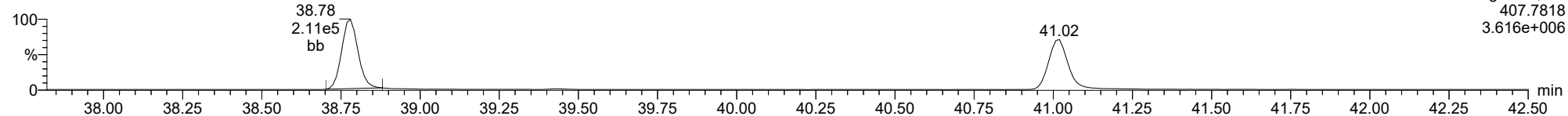


F4:Voltage SIR,EI+  
430.9728  
3.480e+007

ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

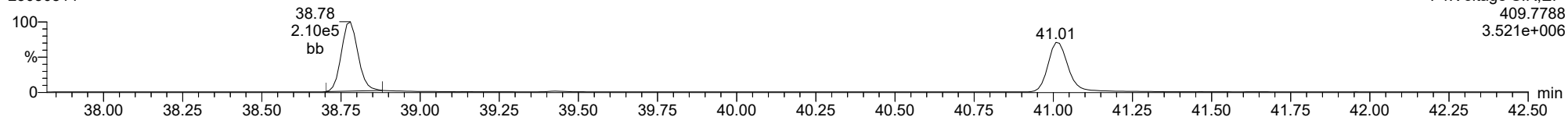
23030814



F4:Voltage SIR,EI+  
407.7818  
3.616e+006

1234678-HpCDF

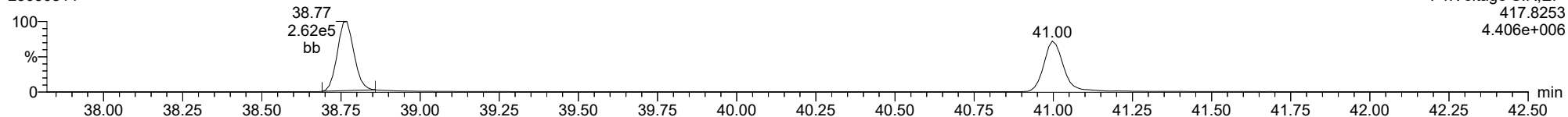
23030814



F4:Voltage SIR,EI+  
409.7788  
3.521e+006

13C-1234678-HpCDF

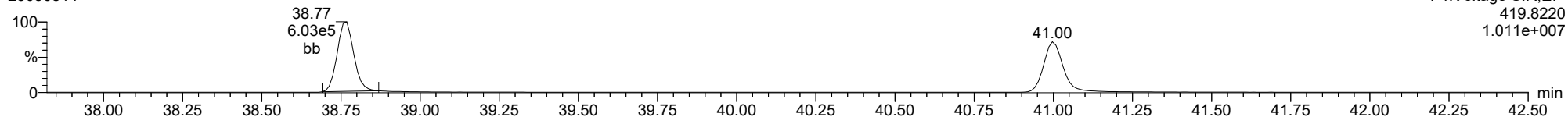
23030814



F4:Voltage SIR,EI+  
417.8253  
4.406e+006

13C-1234678-HpCDF

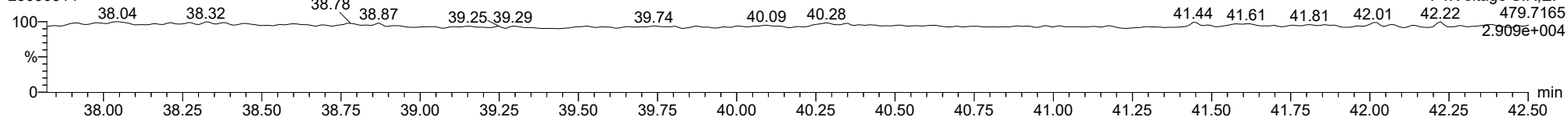
23030814



F4:Voltage SIR,EI+  
419.8220  
1.011e+007

FUNCTION4 NCDPE

23030814

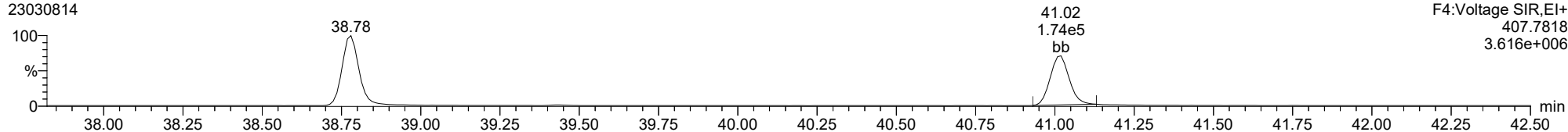


F4:Voltage SIR,EI+  
479.7165  
2.909e+004

ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

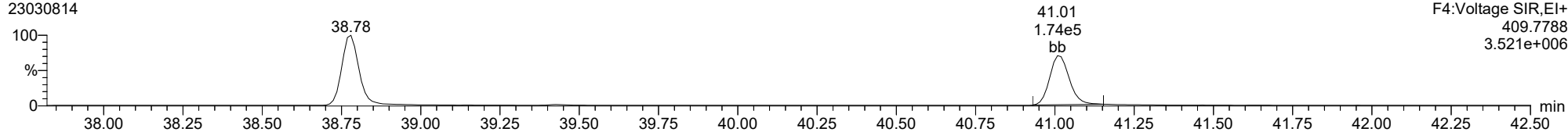
**1234789-HpCDF**

23030814



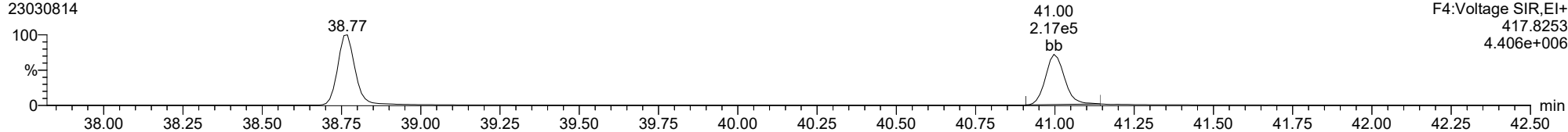
**1234789-HpCDF**

23030814



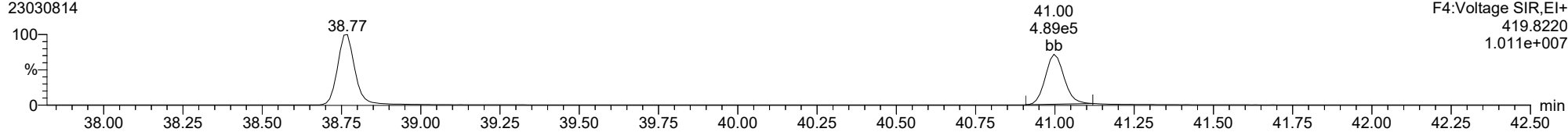
**13C-1234789-HpCDF**

23030814



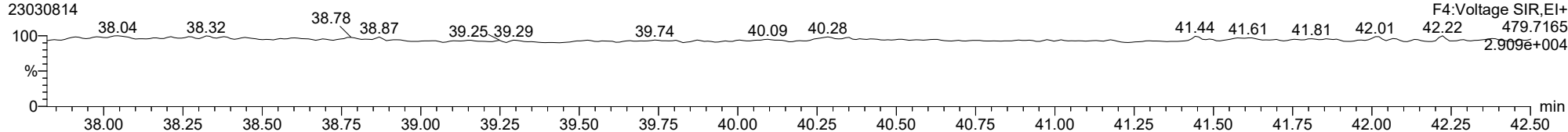
**13C-1234789-HpCDF**

23030814



**FUNCTION4 NCDPE**

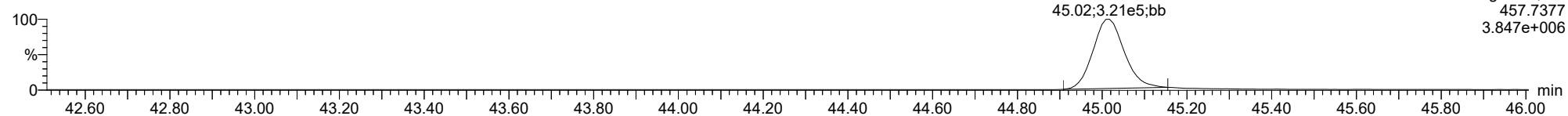
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

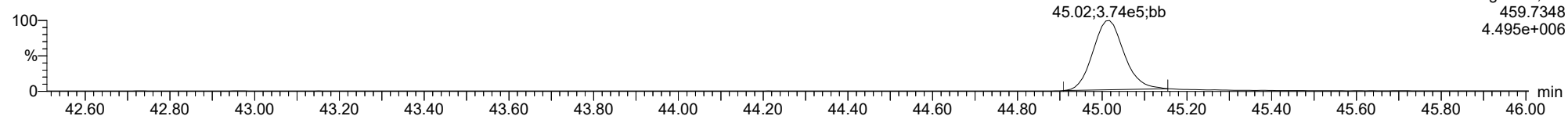
**OCDD**

23030814



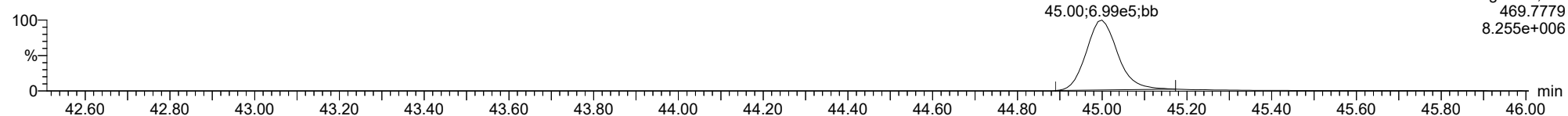
**OCDD**

23030814



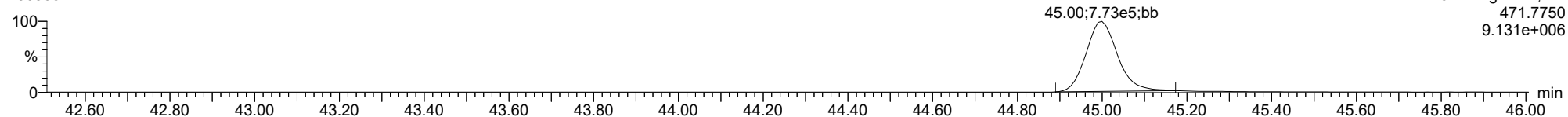
**13C-OCDD**

23030814



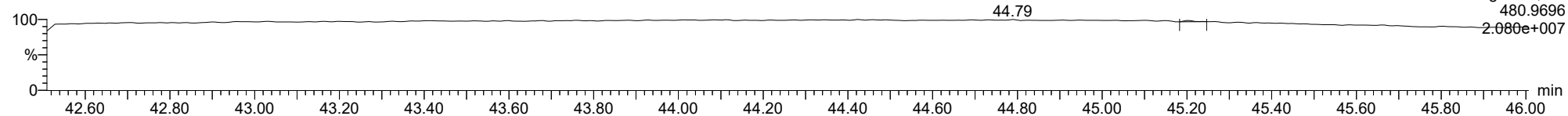
**13C-OCDD**

23030814



**FUNCTION5 PFK**

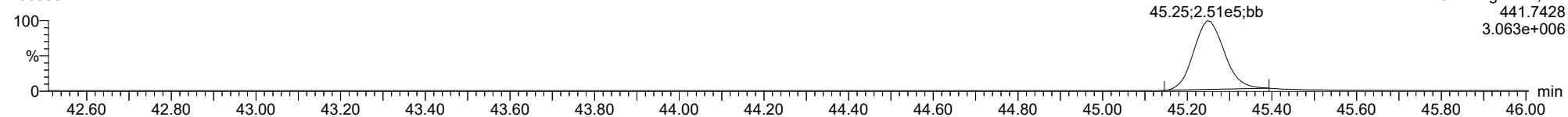
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

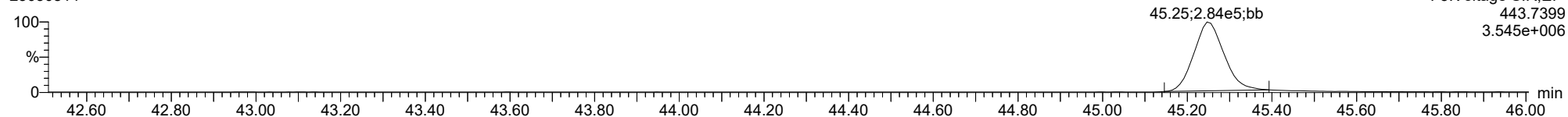
**OCDF**

23030814



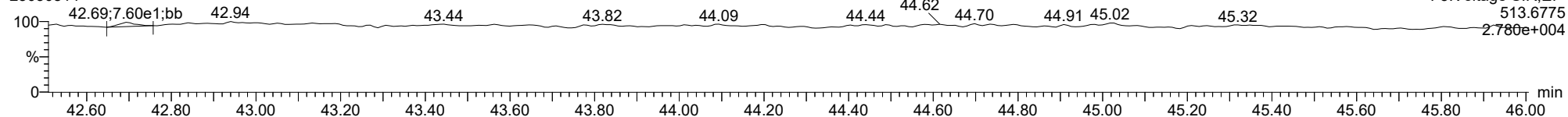
**OCDF**

23030814



**FUNCTION5 DCDPE**

23030814

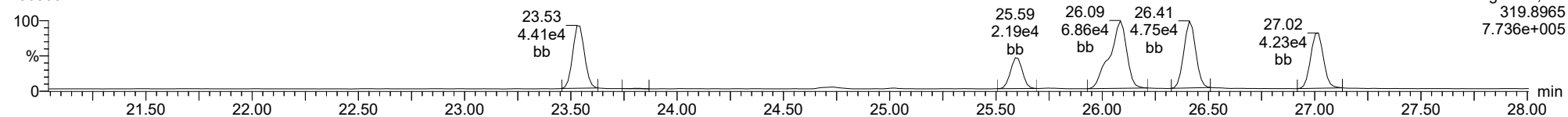




ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

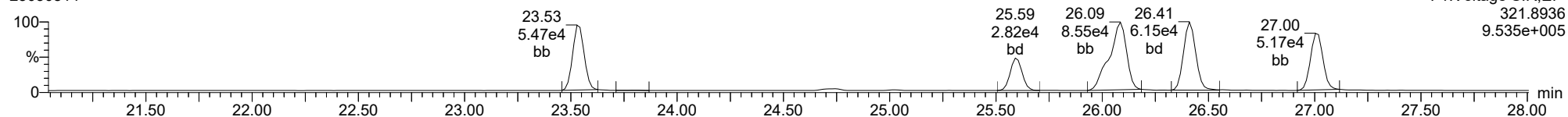
**Total-tetradoxins**

23030814



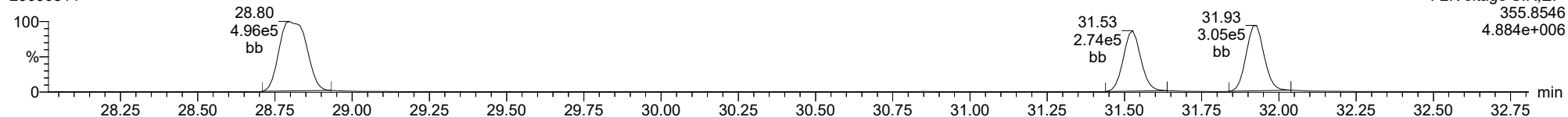
**Total-tetradoxins**

23030814



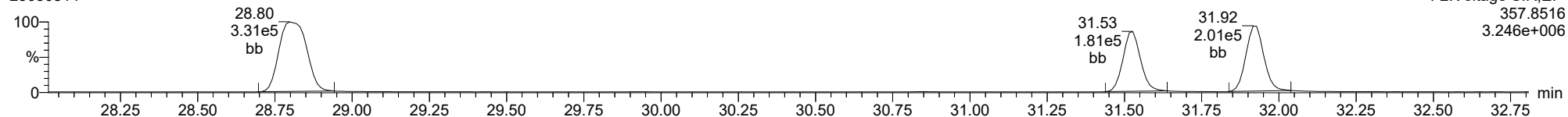
**Total-pentadoxins**

23030814



**Total-pentadoxins**

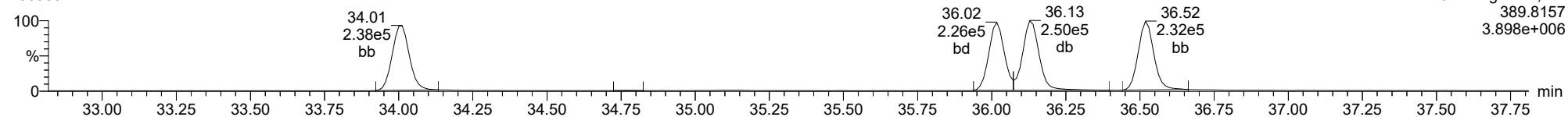
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

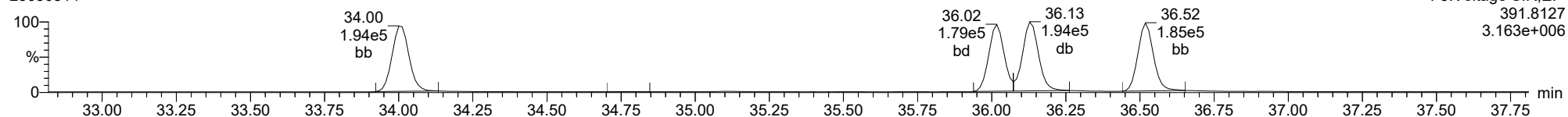
**Total-hexadioxins**

23030814



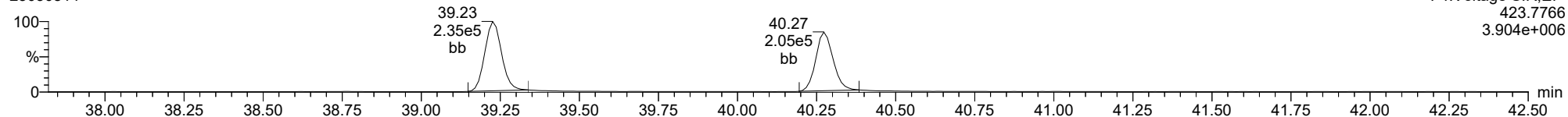
**Total-hexadioxins**

23030814



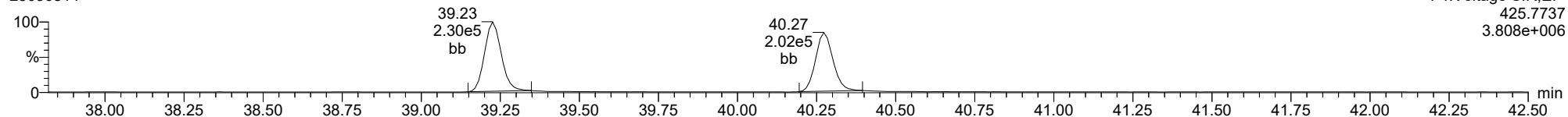
**Total-heptadioxins**

23030814



**Total-heptadioxins**

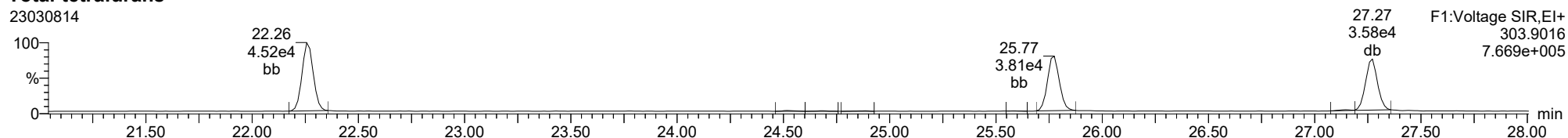
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

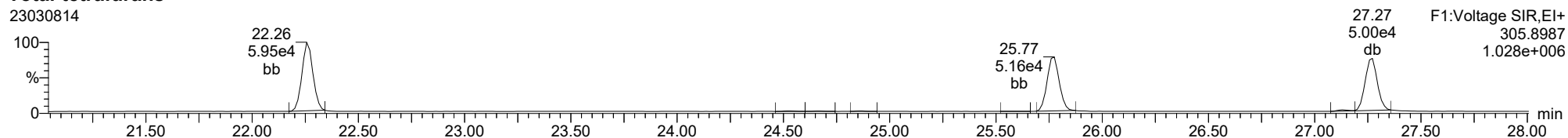
**Total-tetrafurans**

23030814



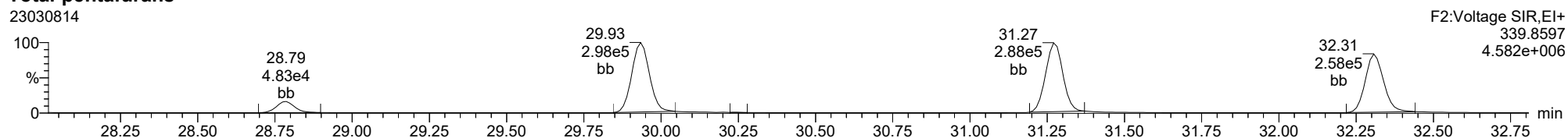
**Total-tetrafurans**

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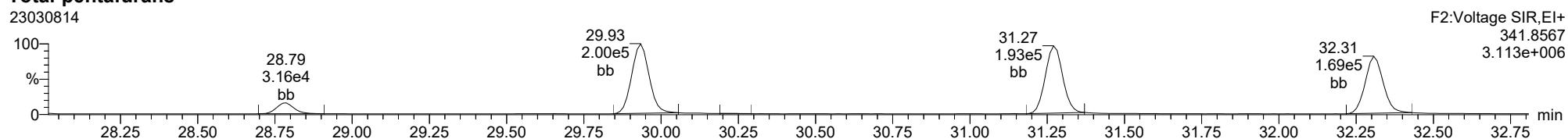
**Total-pentafurans**

23030814



**Total-pentafurans**

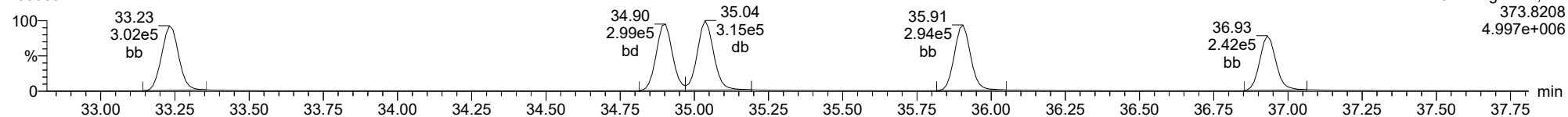
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ID: CS3Y2, Name: 23030814, Date: 08-Mar-2023, Time: 20:31:39, Conditions: AUTOSPEC01, User: pk

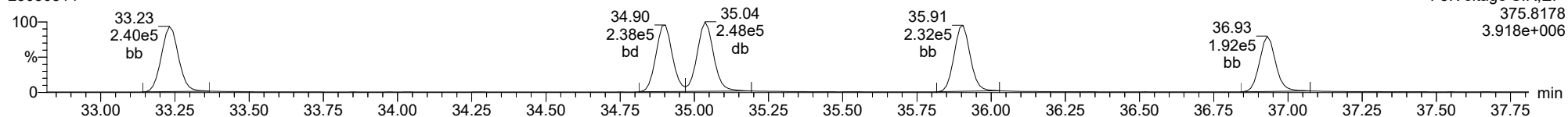
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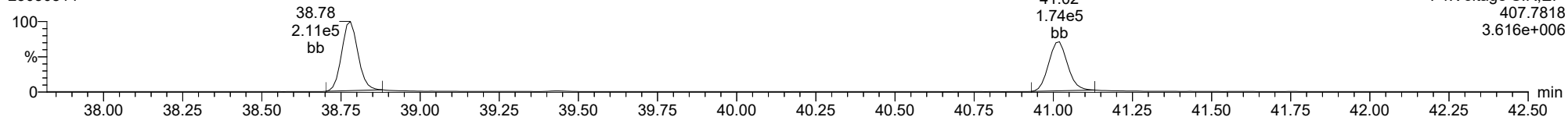
**Total-hexafurans**

23030814



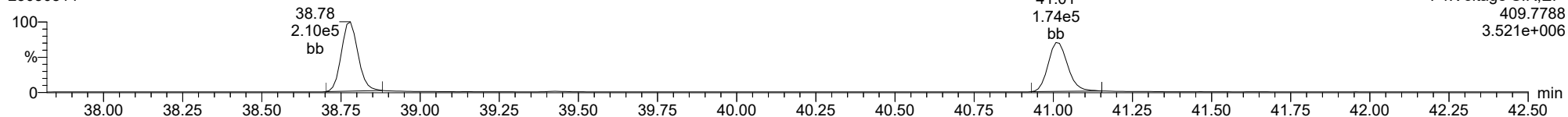
**Total-heptafurans**

23030814

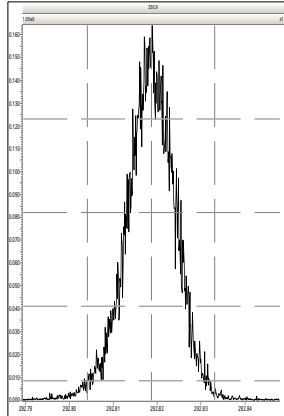


**Total-heptafurans**

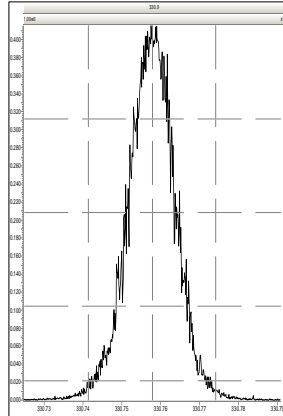
23030814



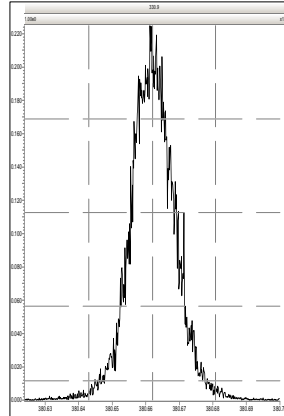
M 292.9824 R 11417



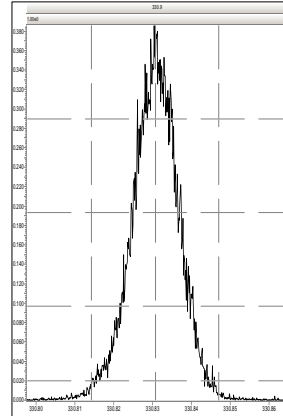
M 330.9792 R 11743



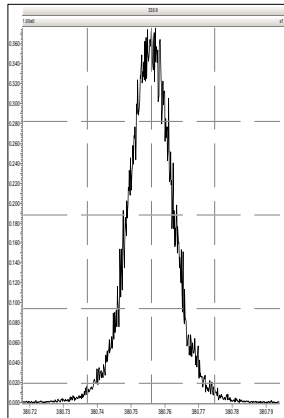
M 380.9760 R 12285



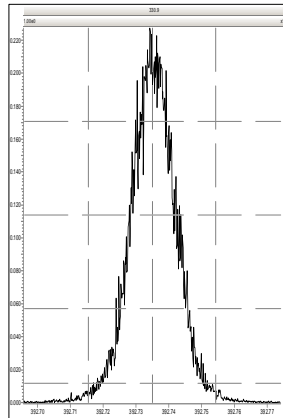
M 330.9792 R 11633



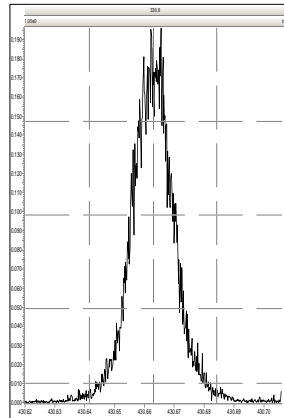
M 380.9760 R 11737



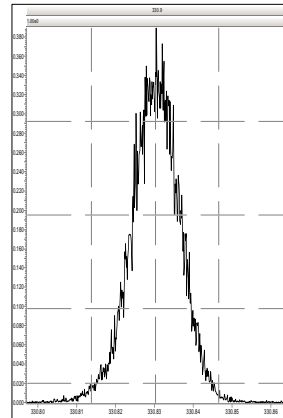
M 392.9760 R 12316



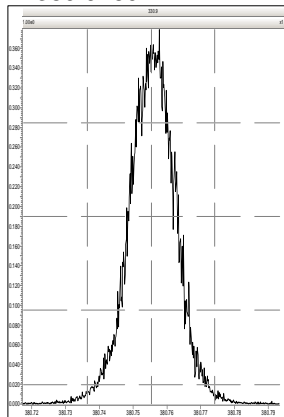
M 430.9728 R 12570



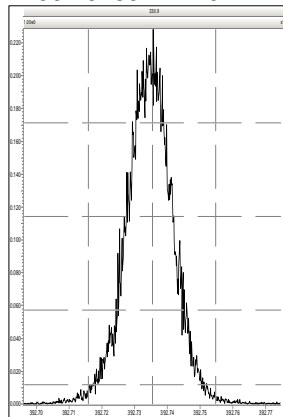
M 330.9792 R 11086



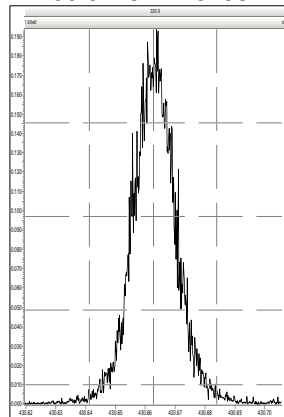
M 380.9760 R 11441



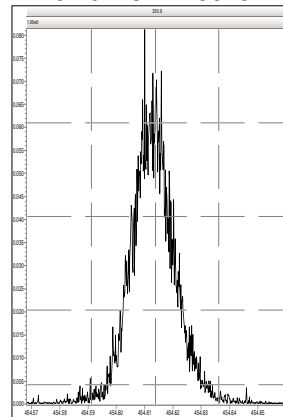
M 392.9760 R 12077



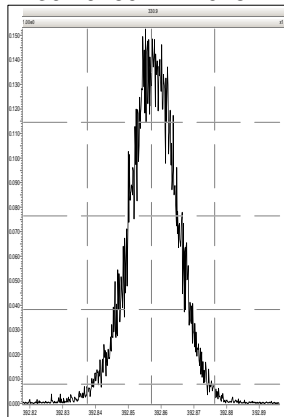
M 430.9728 R 13158



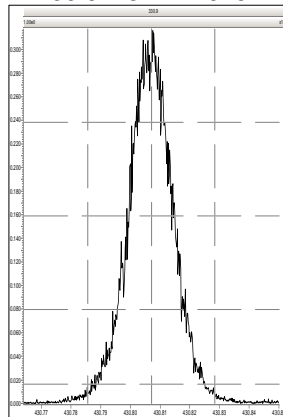
M 454.9728 R 13675



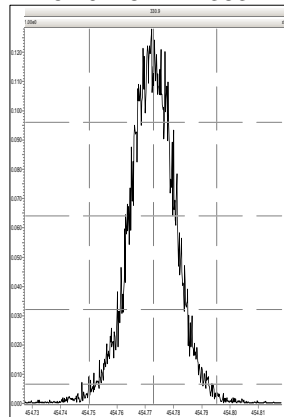
M 392.9760 R 12048



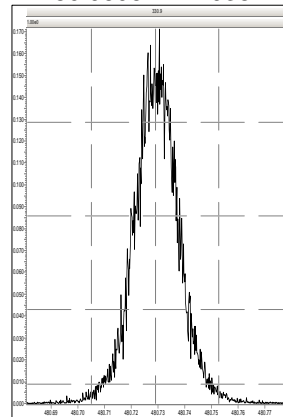
M 430.9728 R 11975



M 454.9728 R 12383

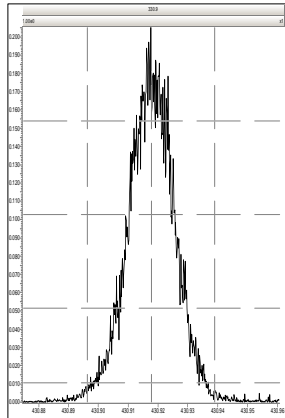


M 480.9696 R 11938

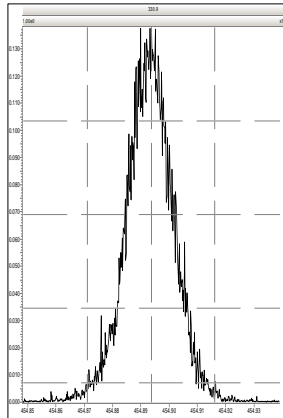


Printed: Wednesday, March 08, 2023 21:24:29 Pacific Standard Time

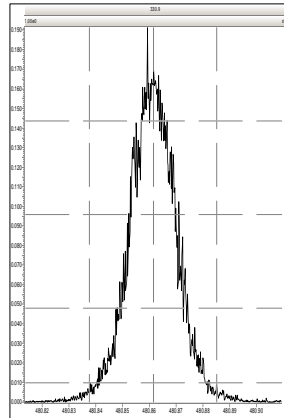
M 430.9728 R 11869



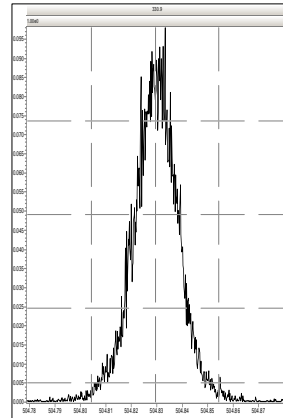
M 454.9728 R 12158



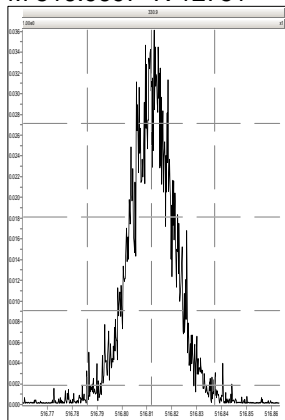
M 480.9696 R 11907



M 504.9696 R 12138



M 516.9697 R 12751

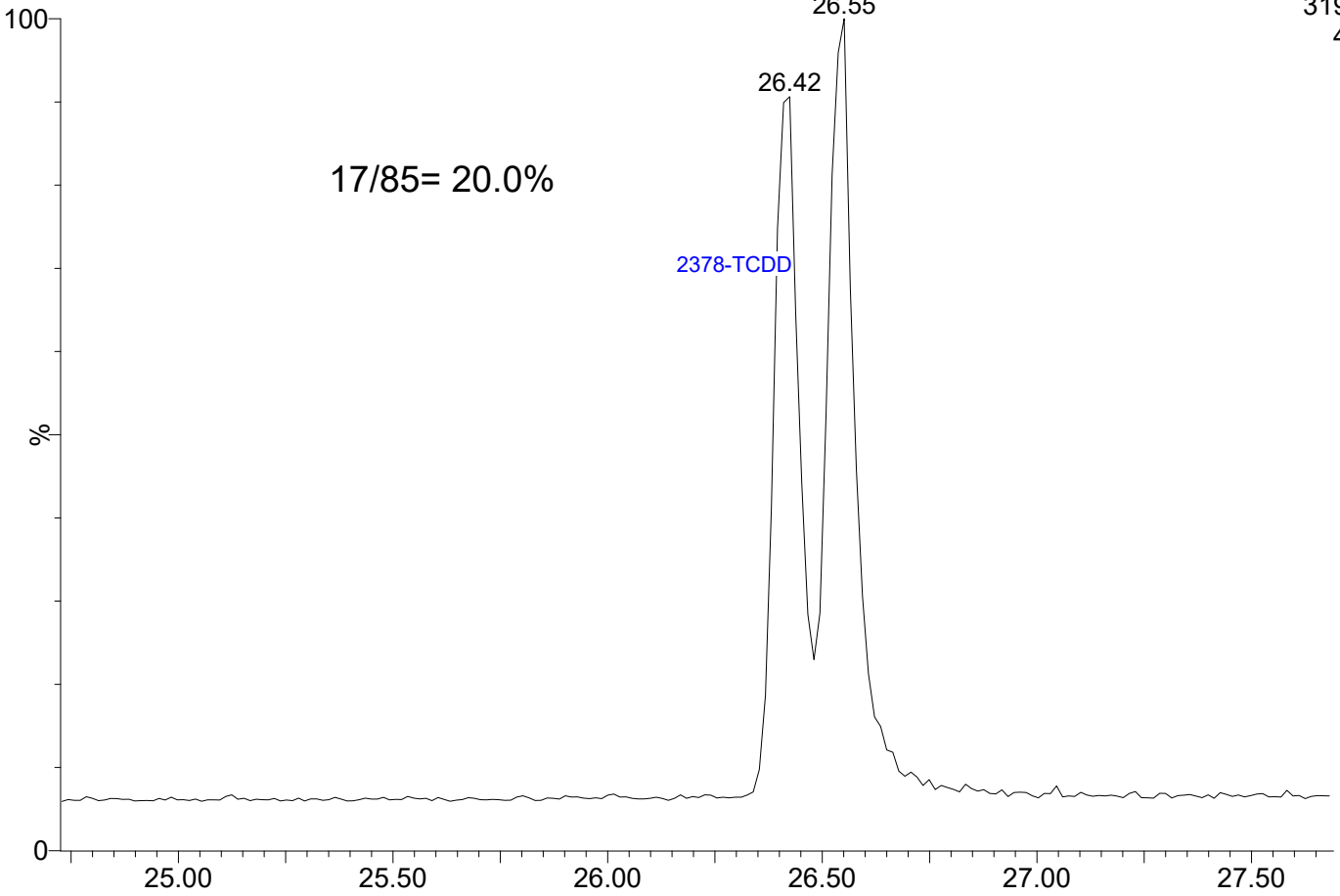


23030815

1: Voltage SIR 14 Channels EI+

319.8965

4.05e5

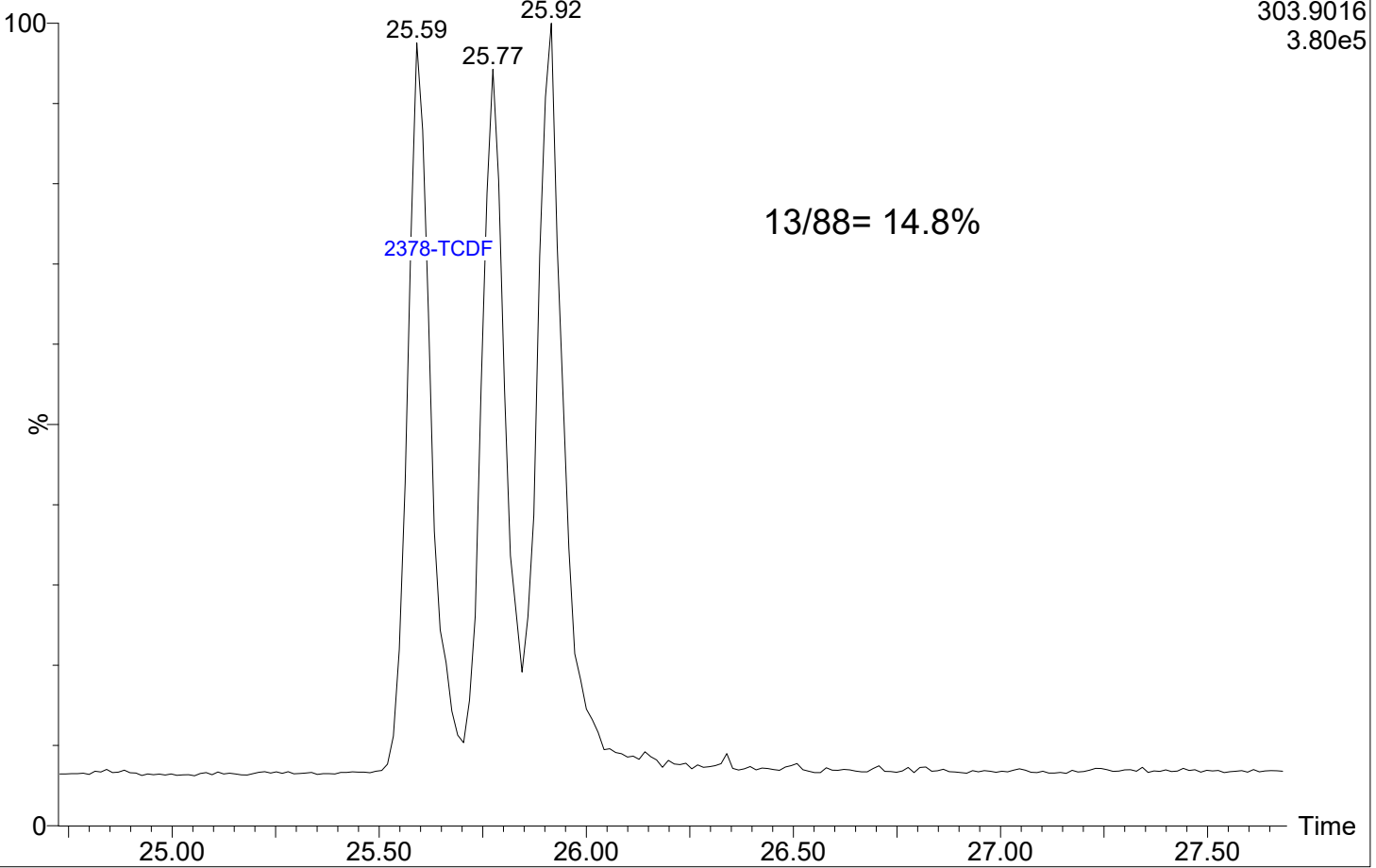


23030815

1: Voltage SIR 14 Channels EI+

303.9016

3.80e5





**CDD/CDF CHROMATOGRAPHIC  
RESOLUTION SUMMARY  
EPA 1613B**

Lab Name: Analytical Resources, LLC SDG: 22L0246  
 Instrument .ID: AUTOSPEC01 Lab File ID: 22032303  
 Date Analyzed: 03/23/22 Time Analyzed: 10:49  
 Lab Sample ID: SKC0306-RES1 Sequence: SKC0306

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 12.3

3467-TCDF/2378-TCDF: 13.1

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SKC0306-ICV1	CS3H1	22032302	03/23/2022	09:30
SKC0306-RES1	ISCH1	22032303	03/23/2022	10:49
SKC0306-CAL1	CSLCH	22032304	03/23/2022	11:36
SKC0306-CAL2	CS1CH	22032305	03/23/2022	12:45
SKC0306-CAL3	CS2CH	22032306	03/23/2022	13:37
SKC0306-CAL4	CS3CH	22032307	03/23/2022	14:24
SKC0306-CAL5	CS4CH	22032308	03/23/2022	15:11
SKC0306-CAL6	CS5CH	22032309	03/23/2022	15:59
SKC0306-SCV1	ICVCH	22032310	03/23/2022	16:46
SKC0306-CCV1	CS3H2	22032311	03/23/2022	17:34
SKC0306-RES2	ISCH2	22032312	03/23/2022	18:26

















**CDD/CDF CHROMATOGRAPHIC  
RESOLUTION SUMMARY  
EPA 1613B**

Lab Name: Analytical Resources, LLC SDG: 22L0246  
 Instrument .ID: AUTOSPEC01 Lab File ID: 23020103  
 Date Analyzed: 02/01/23 Time Analyzed: 13:02  
 Lab Sample ID: SLB0026-RES1 Sequence: SLB0026

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 10.3

3467-TCDF/2378-TCDF: 10

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0026-ICV1	CS3R1	23020102	02/01/2023	10:37
SLB0026-RES1	ISCR1	23020103	02/01/2023	13:02
SLB0026-CAL1	CSLCR	23020104	02/01/2023	14:39
SLB0026-CAL2	CS1CR	23020105	02/01/2023	15:28
SLB0026-CAL3	CS2CR	23020106	02/01/2023	17:07
SLB0026-CAL4	CS3CR	23020107	02/01/2023	17:56
SLB0026-CAL5	CS4CR	23020108	02/01/2023	18:45
SLB0026-CAL6	CS5CR	23020109	02/01/2023	19:34
SLB0026-SCV1	ICVCR	23020110	02/01/2023	20:23
SLB0026-CCV1	CS3R2	23020111	02/01/2023	21:12
SLB0026-RES2	ISCR2	23020112	02/01/2023	22:06







**CDD/CDF CHROMATOGRAPHIC  
RESOLUTION SUMMARY  
EPA 1613B**

Lab Name: Analytical Resources, LLC SDG: 22L0246  
Instrument .ID: AUTOSPEC01 Lab File ID: 23030303  
Date Analyzed: 03/03/23 Time Analyzed: 10:39  
Lab Sample ID: SLC0045-RES1 Sequence: SLC0045

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 8.8

3467-TCDF/2378-TCDF: 8.2

Quality Control (QC) Limits:  $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLC0045-ICV1	CS3W1	23030302	03/03/2023	09:51
SLC0045-RES1	ISCW1	23030303	03/03/2023	10:39
SLC0045-CAL1	CSLCW	23030304	03/03/2023	11:28
SLC0045-CAL2	CS1CW	23030305	03/03/2023	12:23
SLC0045-CAL3	CS2CW	23030306	03/03/2023	13:16
SLC0045-CAL4	CS3CW	23030307	03/03/2023	14:06
SLC0045-CAL5	CS4CW	23030308	03/03/2023	14:59
SLC0045-CAL6	CS5CW	23030309	03/03/2023	15:47
SLC0045-SCV1	ICVCW	23030310	03/03/2023	16:36
SLC0045-CCV1	CS3V4	23030311	03/03/2023	17:25
SLC0045-RES2	ISCV4	23030312	03/03/2023	18:18





**CDD/CDF CHROMATOGRAPHIC  
RESOLUTION SUMMARY  
EPA 1613B**

Lab Name: Analytical Resources, LLC                      SDG: 22L0246  
Instrument .ID: AUTOSPEC01                                      Lab File ID: 23030803  
Date Analyzed: 03/08/23    Time Analyzed: 11:31  
Lab Sample ID: SLC0101-RES1                                      Sequence: SLC0101

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 17.2

3467-TCDF/2378-TCDF: 15.1

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLC0101-ICV1	CS3Y1	23030802	03/08/2023	10:35
SLC0101-RES1	ISCY1	23030803	03/08/2023	11:31
22L0246-44RE1	LDW22-IT809C	23030804	03/08/2023	12:19
22L0246-45RE1	LDW22-IT809D	23030805	03/08/2023	13:08
SLC0101-CCV1	CS3Y2	23030814	03/08/2023	20:31
SLC0101-RES2	ISCY2	23030815	03/08/2023	21:24



**CDD/CDF CHROMATOGRAPHIC  
RESOLUTION SUMMARY  
EPA 1613B**

Lab Name:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Instrument .ID:	<u>AUTOSPEC01</u>	Lab File ID:	<u>23030815</u>
Date Analyzed:	<u>03/08/23</u>	Time Analyzed:	<u>21:24</u>
Lab Sample ID:	<u>SLC0101-RES2</u>	Sequence:	<u>SLC0101</u>

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 20

3467-TCDF/2378-TCDF: 14.8

Quality Control (QC) Limits:  $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLC0101-ICV1	CS3Y1	23030802	03/08/2023	10:35
SLC0101-RES1	ISCY1	23030803	03/08/2023	11:31
22L0246-44RE1	LDW22-IT809C	23030804	03/08/2023	12:19
22L0246-45RE1	LDW22-IT809D	23030805	03/08/2023	13:08
SLC0101-CCV1	CS3Y2	23030814	03/08/2023	20:31
SLC0101-RES2	ISCY2	23030815	03/08/2023	21:24



**ANALYSIS BATCH (SEQUENCE) SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKC0306

Instrument: AUTOSPEC01

Calibration: FC00062

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3H1	SKC0306-ICV1	22032302	NA	03/23/22 09:30
ISCH1	SKC0306-RES1	22032303	NA	03/23/22 10:49
CSLCH	SKC0306-CAL1	22032304	NA	03/23/22 11:36
CS1CH	SKC0306-CAL2	22032305	NA	03/23/22 12:45
CS2CH	SKC0306-CAL3	22032306	NA	03/23/22 13:37
CS3CH	SKC0306-CAL4	22032307	NA	03/23/22 14:24
CS4CH	SKC0306-CAL5	22032308	NA	03/23/22 15:11
CS5CH	SKC0306-CAL6	22032309	NA	03/23/22 15:59
ICVCH	SKC0306-SCV1	22032310	NA	03/23/22 16:46
CS3H2	SKC0306-CCV1	22032311	NA	03/23/22 17:34
ISCH2	SKC0306-RES2	22032312	NA	03/23/22 18:26



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0339

Instrument: AUTOSPEC01

Calibration: FC00062

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3P1	SKL0339-ICV1	22122802	NA	12/28/22 11:32
ISCP1	SKL0339-RES1	22122803	NA	12/28/22 12:23
CS3P2	SKL0339-CCV1	22122812	NA	12/28/22 19:49
ISCP2	SKL0339-RES2	22122813	NA	12/28/22 20:43
Blank	BKL0419-BLK1	22122814	Solid	12/28/22 21:35
LCS	BKL0419-BS1	22122815	Solid	12/28/22 22:24
Reference	BKL0419-SRM1	22122816	Solid	12/28/22 23:14
LDW22-IT810A	BKL0419-DUP1	22122818	Solid	12/29/22 00:53
LDW22-IT810A	22L0246-07	22122819	Solid	12/29/22 01:42
LDW22-IT810B	22L0246-08	22122820	Solid	12/29/22 02:32
LDW22-IT810C	22L0246-09	22122821	Solid	12/29/22 03:21
LDW22-IT810B-FD	22L0246-10	22122822	Solid	12/29/22 04:11
LDW22-IT810D	22L0246-11	22122823	Solid	12/29/22 05:00
CS3P3	SKL0339-CCV2	22122824	NA	12/29/22 05:50
ISCP3	SKL0339-RES3	22122825	NA	12/29/22 06:43



ANALYSIS SEQUENCE

SKL0339

Instrument: AUTOSPEC01      Element Column ID: K10513  
 Calibration ID: FC00062      Tune File: NOV2822  
 EM Voltage: 360      Resolution check times : 10:37, 20:43, 06:43

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0339-ICV1	CS3P1	QC		1	K009821		12/28/2022 11:32	22122802	PK	
SKL0339-RES1	ISCP1	QC		2	K003933		12/28/2022 12:23	22122803	PK	
BKL0149-BLK1	BLK1	QC		3		K003586	12/28/2022 13:14	22122804	PK	
BKL0149-BS1	BMS1	QC		4		K003586	12/28/2022 14:03	22122805	PK	
BKL0149-SRM1	Reference	QC		5		K003586	12/28/2022 14:52	22122806	PK	
BKL0149-MS1	Matrix Spike	QC		6		K003586	12/28/2022 15:42	22122807	PK	
BKL0149-MSD1	Matrix Spike Dup	QC		7		K003586	12/28/2022 16:31	22122808	PK	
22L0013-01	1122-SBM-01-COMP	8290 Dioxin	A 02	8		K003586	12/28/2022 17:21	22122809	PK	
22L0013-02	1122-DEP-01-COMP	8290 Dioxin	A 02	9		K003586	12/28/2022 18:10	22122810	PK	
22L0013-03	1122-KS-REF	8290 Dioxin	A 02	10		K003586	12/28/2022 19:00	22122811	PK	
SKL0339-CCV1	CS3P2	QC		11	K009821		12/28/2022 19:49	22122812	PK	
SKL0339-RES2	ISCP2	QC		12	K003933		12/28/2022 20:43	22122813	PK	
BKL0419-BLK1	Blank	QC		13		K003586	12/28/2022 21:35	22122814	PK	
BKL0419-BS1	LCS	QC		14		K003586	12/28/2022 22:24	22122815	PK	
BKL0419-SRM1	Reference	QC		15		K003586	12/28/2022 23:14	22122816	PK	
22L0155-24	LDW22-IT805	1613B Dioxin	D 01	16		K003586	12/29/2022 00:03	22122817	PK	
BKL0419-DUP1	Duplicate	QC		17		K003586	12/29/2022 00:53	22122818	PK	
22L0246-07	LDW22-IT810A	1613B Dioxin	A 01	18		K003586	12/29/2022 01:42	22122819	PK	
22L0246-08	LDW22-IT810B	1613B Dioxin	A 01	19		K003586	12/29/2022 02:32	22122820	PK	
22L0246-09	LDW22-IT810C	1613B Dioxin	A 01	20		K003586	12/29/2022 03:21	22122821	PK	
22L0246-10	LDW22-IT810B-FD	1613B Dioxin	A 01	21		K003586	12/29/2022 04:11	22122822	PK	
22L0246-11	LDW22-IT810D	1613B Dioxin	A 01	22		K003586	12/29/2022 05:00	22122823	PK	



ANALYSIS SEQUENCE

SKL0339

Instrument: AUTOSPEC01      Element Column ID: K10513  
Calibration ID: FC00062      Tune File: NOV2822  
EM Voltage: 360      Resolution check times : 10:37, 20:43, 06:43

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0339-CCV2	CS3P3	QC		23	K009821		12/29/2022 05:50	22122824	PK	
SKL0339-RES3	ISCP3	QC		24	K003933		12/29/2022 06:43	22122825	PK	



Dataset: T:\Autospec\Processed Data Batch\221228D1.qld

Last Altered: Thursday, December 29, 2022 10:27:27 Pacific Standard Time

Printed: Thursday, December 29, 2022 10:34:14 Pacific Standard Time

12/29/22 pk

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:22122803, Compound:13C-123789-HxCDD, RT:36.756	2
Peak deleted	Sample:22122804, Compound:HD, RT:36.399	3
Peak deleted	Sample:22122804, Compound:HD, RT:36.766	3
Peak deleted	Sample:22122804, Compound:HD, RT:36.800	3
Peak deleted	Sample:22122804, Compound:HF, RT:35.140	3
Peak deleted	Sample:22122804, Compound:HF, RT:35.185	3
Peak deleted	Sample:22122804, Compound:HF, RT:35.296	3
Peak deleted	Sample:22122804, Compound:HPF, RT:41.268	3
Peak deleted	Sample:22122804, Compound:HPF, RT:41.301	3
Pre modification peak	Sample:22122804, Compound:OD, RT:45.338	3
Peak modified	Sample:22122804, Compound:OD, RT:45.338	3
Pre modification peak	Sample:22122804, Compound:OF, RT:45.567	3
Peak modified	Sample:22122804, Compound:OF, RT:45.567	3
Peak deleted	Sample:22122804, Compound:TD, RT:26.683	3
Peak deleted	Sample:22122805, Compound:HF, RT:35.708	4
Pre modification peak	Sample:22122806, Compound:PF, RT:29.915	5
Peak modified	Sample:22122806, Compound:PF, RT:29.915	5
Pre modification peak	Sample:22122806, Compound:PF, RT:29.915	5
Peak modified	Sample:22122806, Compound:PF, RT:29.915	5
Peak deleted	Sample:22122807, Compound:TD, RT:25.005	6
Pre modification peak	Sample:22122808, Compound:TF, RT:26.018	7
Peak modified	Sample:22122808, Compound:TF, RT:26.018	7
Pre modification peak	Sample:22122809, Compound:HF, RT:36.143	8
Peak modified	Sample:22122809, Compound:HF, RT:36.143	8
Peak deleted	Sample:22122809, Compound:PD, RT:30.160	8
Peak deleted	Sample:22122809, Compound:TD, RT:26.668	8
Peak deleted	Sample:22122809, Compound:TF, RT:23.357	8
Pre modification peak	Sample:22122810, Compound:HF, RT:37.168	9
Peak modified	Sample:22122810, Compound:HF, RT:37.168	9
Peak deleted	Sample:22122810, Compound:PF, RT:28.945	9
Peak deleted	Sample:22122810, Compound:PF, RT:29.692	9
Peak deleted	Sample:22122810, Compound:PF, RT:30.171	9
Peak deleted	Sample:22122810, Compound:PF, RT:30.204	9
Pre modification peak	Sample:22122810, Compound:TD, RT:25.987	9
Peak modified	Sample:22122810, Compound:TD, RT:25.987	9
Peak deleted	Sample:22122810, Compound:TF, RT:25.836	9
Pre modification peak	Sample:22122810, Compound:TF, RT:26.033	9
Peak modified	Sample:22122810, Compound:TF, RT:26.033	9
Peak deleted	Sample:22122811, Compound:HD, RT:36.533	10
Peak deleted	Sample:22122811, Compound:HPF, RT:41.246	10
Peak deleted	Sample:22122811, Compound:HPF, RT:41.290	10
Peak deleted	Sample:22122811, Compound:TD, RT:24.052	10
Peak deleted	Sample:22122811, Compound:TD, RT:25.247	10
Peak deleted	Sample:22122811, Compound:TD, RT:26.653	10
Peak deleted	Sample:22122813, Compound:13C-123789-HxCDD, RT:36.778	12
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\221228D1.qld'	
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\221228D1.qld'	

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
 Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
 Printed: Friday, December 30, 2022 09:52:24 Pacific Standard Time

12/30/22 pk

Event	Details	Sample ID
Process Quantify		
Process Integrate		
Process Extract		
Pre modification peak	Sample:22122816, Compound:HF, RT:37.134	3
Pre modification peak	Sample:22122816, Compound:HF, RT:37.134	3
Pre modification peak	Sample:22122817, Compound:PD, RT:31.798	4
Pre modification peak	Sample:22122818, Compound:PF, RT:30.215	5
Pre modification peak	Sample:22122821, Compound:HF, RT:37.146	8
Pre modification peak	Sample:22122823, Compound:HF, RT:36.176	10
Pre modification peak	Sample:22122823, Compound:PD, RT:31.820	10
Pre modification peak	Sample:22122823, Compound:PD, RT:31.820	10
Pre modification peak	Sample:22122823, Compound:HD, RT:36.288	10
Pre modification peak	Sample:22122823, Compound:HD, RT:36.399	10
Pre modification peak	Sample:22122814, Compound:OF, RT:45.595	1
Pre modification peak	Sample:22122819, Compound:TF, RT:27.484	6
Pre modification peak	Sample:22122819, Compound:TF, RT:27.499	6
Pre modification peak	Sample:22122823, Compound:PF, RT:29.146	10
Pre modification peak	Sample:22122823, Compound:PF, RT:29.135	10
Peak modified	Sample:22122816, Compound:HF, RT:37.134	3
Peak modified	Sample:22122816, Compound:HF, RT:37.134	3
Peak modified	Sample:22122817, Compound:PD, RT:31.798	4
Peak modified	Sample:22122818, Compound:PF, RT:30.215	5
Peak modified	Sample:22122821, Compound:HF, RT:37.146	8
Peak modified	Sample:22122823, Compound:HF, RT:36.176	10
Peak modified	Sample:22122823, Compound:PD, RT:31.820	10
Peak modified	Sample:22122823, Compound:PD, RT:31.820	10
Peak modified	Sample:22122823, Compound:HD, RT:36.288	10
Peak modified	Sample:22122823, Compound:HD, RT:36.399	10
Peak modified	Sample:22122814, Compound:OF, RT:45.595	1
Peak modified	Sample:22122819, Compound:TF, RT:27.484	6
Peak modified	Sample:22122819, Compound:TF, RT:27.499	6
Peak modified	Sample:22122823, Compound:PF, RT:29.146	10
Peak modified	Sample:22122823, Compound:PF, RT:29.135	10
Peak deleted	Sample:22122825, Compound:13C-1234-TCDD, RT:25.851	12
Peak deleted	Sample:22122825, Compound:13C-123789-HxCDD, RT:36.756	12
Peak deleted	Sample:22122815, Compound:HPF, RT:41.501	2
Peak deleted	Sample:22122816, Compound:PF, RT:29.413	3
Peak deleted	Sample:22122816, Compound:TD, RT:27.258	3
Peak deleted	Sample:22122817, Compound:PF, RT:32.333	4
Peak deleted	Sample:22122818, Compound:PF, RT:32.600	5
Peak deleted	Sample:22122818, Compound:HD, RT:37.079	5
Peak deleted	Sample:22122819, Compound:HD, RT:37.101	6
Peak deleted	Sample:22122820, Compound:HD, RT:34.550	7
Peak added	Sample:22122816, Compound:TF, RT:24.763	3
Peak added	Sample:22122816, Compound:TF, RT:24.763	3
Peak added	Sample:22122816, Compound:TF, RT:26.154	3
Peak added	Sample:22122816, Compound:TF, RT:26.154	3
Peak added	Sample:22122817, Compound:TF, RT:23.341	4
Peak added	Sample:22122817, Compound:TF, RT:23.341	4
Peak added	Sample:22122817, Compound:TF, RT:25.126	4
Peak added	Sample:22122817, Compound:TF, RT:25.111	4
Peak added	Sample:22122818, Compound:PF, RT:29.124	5
Peak added	Sample:22122818, Compound:PF, RT:29.124	5
Peak added	Sample:22122818, Compound:PF, RT:32.511	5
Peak added	Sample:22122818, Compound:PF, RT:32.511	5

Dataset: T:\Autospec\Processed Data Batch\221228D2.qld  
Last Altered: Friday, December 30, 2022 09:50:56 Pacific Standard Time  
Printed: Friday, December 30, 2022 09:52:24 Pacific Standard Time

Event	Details	Sample ID
Peak added	Sample:22122819, Compound:PF, RT:29.135	6
Peak added	Sample:22122819, Compound:PF, RT:29.135	6
Peak added	Sample:22122819, Compound:PD, RT:29.101	6
Peak added	Sample:22122819, Compound:PD, RT:29.112	6
Peak added	Sample:22122820, Compound:PF, RT:29.135	7
Peak added	Sample:22122820, Compound:PF, RT:29.135	7
Peak added	Sample:22122822, Compound:PF, RT:29.135	9
Peak added	Sample:22122822, Compound:PF, RT:29.135	9
Peak added	Sample:22122822, Compound:PD, RT:29.113	9
Peak added	Sample:22122822, Compound:PD, RT:29.113	9
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\221228D2.qld'	
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\221228D2.qld'	
Dataset Created		



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SLA0009

Instrument: AUTOSPEC01

Calibration: GB00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3R3	SLA0009-ICV1	23020122A	NA	02/02/23 06:23
ISCR3	SLA0009-RES1	23020123	NA	02/02/23 07:17
LDW22-IT810E	22L0246-12	23020124	Solid	02/02/23 08:08
LDW22-IT810F	22L0246-13	23020125	Solid	02/02/23 08:58
LDW22-IT810G	22L0246-14	23020126	Solid	02/02/23 09:47
LDW22-IT809A	22L0246-42	23020127	Solid	02/02/23 10:37
LDW22-IT809B	22L0246-43	23020128	Solid	02/02/23 11:26
LDW22-IT809C	22L0246-44	23020129	Solid	02/02/23 12:16
LDW22-IT809D	22L0246-45	23020130	Solid	02/02/23 13:05
LDW22-IT809E	22L0246-46	23020131	Solid	02/02/23 13:55
LDW22-IT809F	22L0246-47	23020132	Solid	02/02/23 14:44
LDW22-IT809G	22L0246-48	23020133	Solid	02/02/23 15:34
CS3R4	SLA0009-CCV1	23020134	NA	02/02/23 16:23
ISCR4	SLA0009-RES2	23020135	NA	02/02/23 17:17



ANALYSIS SEQUENCE

SLA0009

Instrument: AUTOSPEC01 HRGCMS Column ID: k11292  
 Calibration ID: GB00010 Tune File: JAN3023  
 EM Voltage: 350 Resolution check times : 7:17, 17:17

Instrument problems delayed this run a few times. Tune issues turned out to be oil in the analyzer/flight tube. Cleaned analyzer 1/12. Flight tube and slit blades cleaned 1/24. Took another week to settle.

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLA0009-ICV1	CS3R3	QC		1	K009821		02/02/2023 06:23	23020122A	PK	
SLA0009-RES1	ISCR3	QC		2	K003933		02/02/2023 07:17	23020123	PK	
22L0246-12	LDW22-IT810E	1613B Dioxin	A 01	3		K003586	02/02/2023 08:08	23020124	PK	
22L0246-13	LDW22-IT810F	1613B Dioxin	A 01	4		K003586	02/02/2023 08:58	23020125	PK	
22L0246-14	LDW22-IT810G	1613B Dioxin	A 01	5		K003586	02/02/2023 09:47	23020126	PK	
22L0246-42	LDW22-IT809A	1613B Dioxin	A 01	6		K003586	02/02/2023 10:37	23020127	PK	
22L0246-43	LDW22-IT809B	1613B Dioxin	A 01	7		K003586	02/02/2023 11:26	23020128	PK	
22L0246-44	LDW22-IT809C	1613B Dioxin	A 01	8		K003586	02/02/2023 12:16	23020129	PK	
22L0246-45	LDW22-IT809D	1613B Dioxin	A 01	9		K003586	02/02/2023 13:05	23020130	PK	
22L0246-46	LDW22-IT809E	1613B Dioxin	A 01	10		K003586	02/02/2023 13:55	23020131	PK	
22L0246-47	LDW22-IT809F	1613B Dioxin	A 01	11		K003586	02/02/2023 14:44	23020132	PK	
22L0246-48	LDW22-IT809G	1613B Dioxin	A 01	12		K003586	02/02/2023 15:34	23020133	PK	
SLA0009-CCV1	CS3R4	QC		13	K009821		02/02/2023 16:23	23020134	PK	
SLA0009-RES2	ISCR4	QC		14	K003933		02/02/2023 17:17	23020135	PK	

Dataset: T:\Autospec\Processed Data Batch\230201H.qld  
 Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
 Printed: Friday, February 03, 2023 14:03:52 Pacific Standard Time

2/3/23 pk

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23020123, Compound:13C-1234-TCDD, RT:25.594	2
Peak deleted	Sample:23020123, Compound:13C-1234-TCDD, RT:25.700	2
Peak deleted	Sample:23020123, Compound:13C-1234-TCDD, RT:25.458	2
Peak deleted	Sample:23020135, Compound:13C-123789-HxCDD, RT:36.566	14
Pre modification peak	Sample:23020130, Compound:13C-1234678-HpCDF, RT:38.828	9
Peak modified	Sample:23020130, Compound:13C-1234678-HpCDF, RT:38.828	9
Pre modification peak	Sample:23020129, Compound:13C-123678-HxCDF, RT:35.106	8
Peak modified	Sample:23020129, Compound:13C-123678-HxCDF, RT:35.106	8
Pre modification peak	Sample:23020124, Compound:TD, RT:26.532	3
Peak modified	Sample:23020124, Compound:TD, RT:26.532	3
Pre modification peak	Sample:23020125, Compound:HPF, RT:41.100	4
Peak modified	Sample:23020125, Compound:HPF, RT:41.100	4
Pre modification peak	Sample:23020125, Compound:HPF, RT:41.100	4
Peak modified	Sample:23020125, Compound:HPF, RT:41.100	4
Pre modification peak	Sample:23020126, Compound:PF, RT:30.038	5
Peak modified	Sample:23020126, Compound:PF, RT:30.038	5
Pre modification peak	Sample:23020126, Compound:HF, RT:35.006	5
Peak modified	Sample:23020126, Compound:HF, RT:35.006	5
Pre modification peak	Sample:23020126, Compound:OF, RT:45.367	5
Peak modified	Sample:23020126, Compound:OF, RT:45.367	5
Pre modification peak	Sample:23020126, Compound:HD, RT:36.098	5
Peak modified	Sample:23020126, Compound:HD, RT:36.098	5
Peak deleted	Sample:23020129, Compound:TF, RT:25.912	8
Peak deleted	Sample:23020129, Compound:HF, RT:35.942	8
Pre modification peak	Sample:23020129, Compound:HF, RT:35.106	8
Peak modified	Sample:23020129, Compound:HF, RT:35.106	8
Peak deleted	Sample:23020129, Compound:HPF, RT:41.111	8
Peak deleted	Sample:23020129, Compound:PD, RT:31.619	8
Peak deleted	Sample:23020129, Compound:HD, RT:36.209	8
Peak deleted	Sample:23020130, Compound:HF, RT:35.118	9
Pre modification peak	Sample:23020130, Compound:OF, RT:45.376	9
Peak modified	Sample:23020130, Compound:OF, RT:45.376	9
Peak deleted	Sample:23020130, Compound:HD, RT:36.109	9
Peak deleted	Sample:23020130, Compound:HD, RT:36.087	9
Peak deleted	Sample:23020131, Compound:TF, RT:25.912	10
Peak deleted	Sample:23020131, Compound:PF, RT:30.026	10
Peak deleted	Sample:23020131, Compound:PF, RT:30.093	10
Peak deleted	Sample:23020131, Compound:PF, RT:31.374	10
Peak deleted	Sample:23020131, Compound:PD, RT:31.642	10
Peak deleted	Sample:23020131, Compound:HD, RT:36.076	10
Peak deleted	Sample:23020131, Compound:HD, RT:36.577	10
Peak deleted	Sample:23020133, Compound:TF, RT:25.851	12
Peak deleted	Sample:23020133, Compound:PF, RT:30.026	12
Pre modification peak	Sample:23020133, Compound:HPF, RT:41.078	12
Peak modified	Sample:23020133, Compound:HPF, RT:41.078	12
Pre modification peak	Sample:23020133, Compound:HPF, RT:41.078	12
Peak modified	Sample:23020133, Compound:HPF, RT:41.078	12
Pre modification peak	Sample:23020133, Compound:HPD, RT:40.343	12
Peak modified	Sample:23020133, Compound:HPD, RT:40.343	12
Pre modification peak	Sample:23020133, Compound:HPD, RT:40.343	12
Peak modified	Sample:23020133, Compound:HPD, RT:40.343	12

Dataset: T:\Autospec\Processed Data Batch\230201IH.qld  
Last Altered: Friday, February 03, 2023 14:03:07 Pacific Standard Time  
Printed: Friday, February 03, 2023 14:03:52 Pacific Standard Time

Event	Details	Sample ID
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230201IH.qld'	
Peak deleted	Sample:23020124, Compound:TF, RT:26.608	3
Peak deleted	Sample:23020124, Compound:TD, RT:26.018	3
Peak deleted	Sample:23020125, Compound:TF, RT:27.393	4
Peak deleted	Sample:23020125, Compound:TD, RT:27.136	4
Pre modification peak	Sample:23020126, Compound:13C-123478-HxCDF, RT:34.973	5
Peak modified	Sample:23020126, Compound:13C-123478-HxCDF, RT:34.973	5
Pre modification peak	Sample:23020126, Compound:13C-123478-HxCDF, RT:34.973	5
Peak modified	Sample:23020126, Compound:13C-123478-HxCDF, RT:34.973	5
Pre modification peak	Sample:23020126, Compound:13C-123678-HxCDF, RT:35.106	5
Peak modified	Sample:23020126, Compound:13C-123678-HxCDF, RT:35.106	5
Peak deleted	Sample:23020126, Compound:TD, RT:23.538	5
Peak added	Sample:23020126, Compound:TD, RT:23.659	5
Peak added	Sample:23020126, Compound:TD, RT:23.659	5
Peak deleted	Sample:23020126, Compound:TD, RT:27.091	5
Pre modification peak	Sample:23020127, Compound:TF, RT:27.409	6
Peak modified	Sample:23020127, Compound:TF, RT:27.409	6
Pre modification peak	Sample:23020127, Compound:TF, RT:27.363	6
Peak modified	Sample:23020127, Compound:TF, RT:27.363	6
Pre modification peak	Sample:23020129, Compound:13C-123478-HxCDF, RT:34.973	8
Peak modified	Sample:23020129, Compound:13C-123478-HxCDF, RT:34.973	8
Peak deleted	Sample:23020129, Compound:HD, RT:34.104	8
Peak deleted	Sample:23020129, Compound:TF, RT:22.646	8
Peak deleted	Sample:23020129, Compound:HPF, RT:41.312	8
Peak deleted	Sample:23020129, Compound:TD, RT:24.657	8
Peak deleted	Sample:23020129, Compound:HD, RT:37.134	8
Peak deleted	Sample:23020130, Compound:TF, RT:25.594	9
Peak deleted	Sample:23020130, Compound:TF, RT:22.313	9
Peak deleted	Sample:23020130, Compound:HF, RT:36.722	9
Peak deleted	Sample:23020131, Compound:TF, RT:26.124	10
Peak deleted	Sample:23020131, Compound:TF, RT:24.869	10
Peak deleted	Sample:23020131, Compound:TF, RT:23.871	10
Peak added	Sample:23020132, Compound:PF, RT:28.890	11
Peak added	Sample:23020132, Compound:PF, RT:28.890	11
Peak deleted	Sample:23020132, Compound:TD, RT:24.642	11
Peak deleted	Sample:23020132, Compound:TD, RT:27.288	11
Peak deleted	Sample:23020132, Compound:TD, RT:27.137	11
Peak deleted	Sample:23020133, Compound:TF, RT:26.290	12
Peak deleted	Sample:23020133, Compound:TF, RT:24.763	12
Peak deleted	Sample:23020133, Compound:TD, RT:24.627	12
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230201IH.qld'	



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SLB0026

Instrument: AUTOSPEC01

Calibration: GB00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3R1	SLB0026-ICV1	23020102	NA	02/01/23 10:37
ISCR1	SLB0026-RES1	23020103	NA	02/01/23 13:02
CSLCR	SLB0026-CAL1	23020104	NA	02/01/23 14:39
CS1CR	SLB0026-CAL2	23020105	NA	02/01/23 15:28
CS2CR	SLB0026-CAL3	23020106	NA	02/01/23 17:07
CS3CR	SLB0026-CAL4	23020107	NA	02/01/23 17:56
CS4CR	SLB0026-CAL5	23020108	NA	02/01/23 18:45
CS5CR	SLB0026-CAL6	23020109	NA	02/01/23 19:34
ICVCR	SLB0026-SCV1	23020110	NA	02/01/23 20:23
CS3R2	SLB0026-CCV1	23020111	NA	02/01/23 21:12
ISCR2	SLB0026-RES2	23020112	NA	02/01/23 22:06





## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SLC0045

Instrument: AUTOSPEC01

Calibration: GC00015

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3W1	SLC0045-ICV1	23030302	NA	03/03/23 09:51
ISCW1	SLC0045-RES1	23030303	NA	03/03/23 10:39
CSLCW	SLC0045-CAL1	23030304	NA	03/03/23 11:28
CS1CW	SLC0045-CAL2	23030305	NA	03/03/23 12:23
CS2CW	SLC0045-CAL3	23030306	NA	03/03/23 13:16
CS3CW	SLC0045-CAL4	23030307	NA	03/03/23 14:06
CS4CW	SLC0045-CAL5	23030308	NA	03/03/23 14:59
CS5CW	SLC0045-CAL6	23030309	NA	03/03/23 15:47
ICVCW	SLC0045-SCV1	23030310	NA	03/03/23 16:36
CS3V4	SLC0045-CCV1	23030311	NA	03/03/23 17:25
ISCV4	SLC0045-RES2	23030312	NA	03/03/23 18:18



ANALYSIS SEQUENCE

SLC0045

Instrument: AUTOSPEC01      HRGCMS Column ID: K2310  
Calibration ID: GC00015      Tune File: FEB0923\_1-5  
EM Voltage: 350      Resolution check times : 9:51, 18:18

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0045-ICV1	CS3W1	QC		1	K009821		03/03/2023 09:51	23030302	PK	
SLC0045-RES1	ISCW1	QC		2	L002084		03/03/2023 10:39	23030303	PK	
SLC0045-CAL1	CSLCW	QC		3	I005460		03/03/2023 11:28	23030304	PK	
SLC0045-CAL2	CS1CW	QC		4	I005456		03/03/2023 12:23	23030305	PK	
SLC0045-CAL3	CS2CW	QC		5	I005457		03/03/2023 13:16	23030306	PK	
SLC0045-CAL4	CS3CW	QC		6	K009821		03/03/2023 14:06	23030307	PK	
SLC0045-CAL5	CS4CW	QC		7	I005458		03/03/2023 14:59	23030308	PK	
SLC0045-CAL6	CS5CW	QC		8	I005459		03/03/2023 15:47	23030309	PK	
SLC0045-SCV1	ICVCW	QC		9	H008219		03/03/2023 16:36	23030310	PK	
SLC0045-CCV1	CS3V4	QC		10	K009821		03/03/2023 17:25	23030311	PK	
SLC0045-RES2	ISCV4	QC		11	L002084		03/03/2023 18:18	23030312	PK	

Dataset: T:\Autospec\Processed Data Batch\2303031CIH.qld

Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time

Printed: Monday, March 06, 2023 10:58:44 Pacific Standard Time

3/6/23 PK

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23030304, Compound:TD, RT:26.410	1
Peak deleted	Sample:23030304, Compound:OD, RT:44.990	1
Peak deleted	Sample:23030304, Compound:TF, RT:25.774	1
Pre modification peak	Sample:23030305, Compound:TF, RT:25.774	2
Peak modified	Sample:23030305, Compound:TF, RT:25.774	2
Pre modification peak	Sample:23030304, Compound:HPD, RT:40.261	1
Peak modified	Sample:23030304, Compound:HPD, RT:40.261	1
Peak deleted	Sample:23030308, Compound:PF, RT:32.328	5
Peak deleted	Sample:23030309, Compound:PF, RT:32.307	6
Peak deleted	Sample:23030309, Compound:HF, RT:33.220	6
Peak deleted	Sample:23030309, Compound:TD, RT:27.017	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.995	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.917	6
Peak deleted	Sample:23030308, Compound:HD, RT:34.000	5
Peak deleted	Sample:23030308, Compound:HPD, RT:39.225	5
Peak deleted	Sample:23030309, Compound:HPD, RT:39.214	6
Pre modification peak	Sample:23030305, Compound:OF, RT:45.237	2
Peak modified	Sample:23030305, Compound:OF, RT:45.237	2
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\2303031CIH.qld'	



## ANALYSIS BATCH (SEQUENCE) SUMMARY

### EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SLC0101

Instrument: AUTOSPEC01

Calibration: GC00015

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3Y1	SLC0101-ICV1	23030802	NA	03/08/23 10:35
ISCY1	SLC0101-RES1	23030803	NA	03/08/23 11:31
LDW22-IT809C	22L0246-44RE1	23030804	Solid	03/08/23 12:19
LDW22-IT809D	22L0246-45RE1	23030805	Solid	03/08/23 13:08
CS3Y2	SLC0101-CCV1	23030814	NA	03/08/23 20:31
ISCY2	SLC0101-RES2	23030815	NA	03/08/23 21:24



ANALYSIS SEQUENCE

SLC0101

Instrument: AUTOSPEC01 HRGCMS Column ID: K2310  
 Calibration ID: GC00015 Tune File: FEB0923\_1-5  
 EM Voltage: 340 Resolution check times : 10:34, 21:24

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0101-ICV1	CS3Y1	QC		1	K009821		03/08/2023 10:35	23030802	PK	
SLC0101-RES1	ISCY1	QC		2	L002084		03/08/2023 11:31	23030803	PK	
22L0246-44RE1	LDW22-IT809C	1613B Dioxin	A 01	3		K011414	03/08/2023 12:19	23030804	PK	Added 3/8/2023 by PK
22L0246-45RE1	LDW22-IT809D	1613B Dioxin	A 01	4		K011414	03/08/2023 13:08	23030805	PK	Added 3/8/2023 by PK
BLB0270-BLK1	Blank	QC		5		K011414	03/08/2023 13:59	23030806	PK	
BLB0270-BS1	LCS	QC		6		K011414	03/08/2023 14:49	23030807	PK	
BLB0270-SRM1	Reference	QC		7		K011414	03/08/2023 15:37	23030808	PK	
BLB0270-DUP1	Duplicate	QC		8		K011414	03/08/2023 16:26	23030809	PK	
23B0054-01	DM-19-S	1613B Dioxin	A 03	9		K011414	03/08/2023 17:15	23030810	PK	
23B0054-02	DM-15-S	1613B Dioxin	A 03	10		K011414	03/08/2023 18:04	23030811	PK	
23B0054-03	DM-20-C-0-1	1613B Dioxin	A 03	11		K011414	03/08/2023 18:53	23030812	PK	
23B0054-04	DM-20-C-1-3	1613B Dioxin	A 03	12		K011414	03/08/2023 19:42	23030813	PK	
SLC0101-CCV1	CS3Y2	QC		13	K009821		03/08/2023 20:31	23030814	PK	
SLC0101-RES2	ISCY2	QC		14	L002084		03/08/2023 21:24	23030815	PK	

Dataset: T:\Autospec\Processed Data Batch\230308RE.qld

Last Altered: Wednesday, March 08, 2023 14:08:06 Pacific Standard Time

Printed: Wednesday, March 08, 2023 14:09:01 Pacific Standard Time 3/8/23 PK

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23030803, Compound:13C-123789-HxCDD, RT:36.507	2
Peak deleted	Sample:23030803, Compound:13C-1234-TCDD, RT:25.577	2
Pre modification peak	Sample:23030804, Compound:HPF, RT:41.019	3
Peak modified	Sample:23030804, Compound:HPF, RT:41.019	3
Peak deleted	Sample:23030804, Compound:HD, RT:36.128	3
Pre modification peak	Sample:23030804, Compound:HPD, RT:40.262	3
Peak modified	Sample:23030804, Compound:HPD, RT:40.262	3
Peak deleted	Sample:23030805, Compound:TF, RT:25.760	4
Peak deleted	Sample:23030805, Compound:TF, RT:25.845	4
Pre modification peak	Sample:23030805, Compound:HD, RT:36.507	4
Peak modified	Sample:23030805, Compound:HD, RT:36.507	4
Peak deleted	Sample:23030804, Compound:TF, RT:23.514	3
Peak deleted	Sample:23030804, Compound:PF, RT:28.764	3
Peak deleted	Sample:23030805, Compound:TF, RT:26.170	4
Peak deleted	Sample:23030805, Compound:TF, RT:27.370	4
Peak deleted	Sample:23030805, Compound:TF, RT:27.413	4
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230308RE.qld'	

Dataset: T:\Autospec\Processed Data Batch\230308D1.qld

Last Altered: Thursday, March 09, 2023 11:29:10 Pacific Standard Time

Printed: Thursday, March 09, 2023 11:29:55 Pacific Standard Time

3/9/23 PK

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23030806, Compound:PF, RT:29.934	1
Peak deleted	Sample:23030806, Compound:OF, RT:45.237	1
Peak deleted	Sample:23030806, Compound:TD, RT:26.410	1
Pre modification peak	Sample:23030809, Compound:HF, RT:35.928	4
Peak modified	Sample:23030809, Compound:HF, RT:35.928	4
Pre modification peak	Sample:23030810, Compound:HF, RT:35.894	5
Peak modified	Sample:23030810, Compound:HF, RT:35.894	5
Pre modification peak	Sample:23030811, Compound:HF, RT:35.048	6
Peak modified	Sample:23030811, Compound:HF, RT:35.048	6
Pre modification peak	Sample:23030812, Compound:HF, RT:35.950	7
Peak modified	Sample:23030812, Compound:HF, RT:35.950	7
Peak deleted	Sample:23030815, Compound:13C-1234-TCDD, RT:25.577	10
Peak deleted	Sample:23030815, Compound:13C-123789-HxCDD, RT:36.518	10
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230308D1.qld'	
Peak deleted	Sample:23030807, Compound:HPF, RT:39.248	2
Peak deleted	Sample:23030807, Compound:HPF, RT:38.947	2
Peak deleted	Sample:23030808, Compound:PP, RT:27.879	3
Peak deleted	Sample:23030808, Compound:PF, RT:29.343	3
Peak deleted	Sample:23030809, Compound:HD, RT:36.685	4
Peak deleted	Sample:23030810, Compound:HD, RT:36.674	5
Peak deleted	Sample:23030811, Compound:HD, RT:36.686	6
Peak deleted	Sample:23030812, Compound:HD, RT:36.686	7
Peak deleted	Sample:23030813, Compound:TF, RT:24.263	8
Peak deleted	Sample:23030813, Compound:TF, RT:26.933	8
Peak deleted	Sample:23030813, Compound:TF, RT:26.806	8
Peak added	Sample:23030813, Compound:PD, RT:28.864	8
Peak added	Sample:23030813, Compound:PD, RT:28.875	8
Peak deleted	Sample:23030813, Compound:HD, RT:36.686	8
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230308D1.qld'	



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>22L0246</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>AOC4 UR Phase 3</u>
Sequence: <u>SKC0306</u>	Instrument: <u>AUTOSPEC01</u>
Sample ID: <u>SKC0306-ICV1</u>	Calibration: <u>FC00062</u>
File ID: <u>22032302</u>	Analyzed: <u>03/23/22 09:30</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	95.8	71 - 129	24.792	24.76933	0.0227	N/A	
13C12-2,3,7,8-TCDD	100.00	104	82 - 118	25.4422	25.4145	0.0277	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	96.3	76 - 124	28.9212	28.8992	0.0220	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	95.7	77 - 123	30.2582	30.24362	0.0146	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	100	62 - 138	30.5255	30.5054	0.0201	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.1	76 - 124	33.9123	33.8999	0.0124	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	90.8	70 - 130	34.0572	34.04103	0.0162	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	92.7	73 - 127	34.9483	34.93782	0.0105	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	101	74 - 126	35.9957	35.97962	0.0161	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	96.1	85 - 115	35.082	35.0678	0.0142	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	95.7	85 - 115	35.2047	35.18663	0.0181	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	94.8	78 - 122	37.8787	37.86993	0.0088	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	96.4	77 - 123	40.0177	40.00348	0.0142	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	104	72 - 128	39.327	39.31458	0.0124	N/A	
13C12-OCDD	200.00	104	48 - 152	43.7762	43.75875	0.0175	N/A	
37Cl4-2,3,7,8-TCDD	10.000	95.9	0 - 200	25.4572	25.43467	0.0225	N/A	

\* Values outside of QC limits





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SKC0306 Instrument: AUTOSPEC01  
 Sample ID: SKC0306-SCV1 Calibration: FC00062  
 File ID: 22032310 Analyzed: 03/23/22 16:46

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	102	0 - 200	24.7617	24.76933	-0.0076	N/A	
13C12-2,3,7,8-TCDD	100.00	82.0	0 - 200	25.3967	25.4145	-0.0178	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	104	0 - 200	28.8878	28.8992	-0.0114	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	107	0 - 200	30.236	30.24362	-0.0076	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	97.8	0 - 200	30.4922	30.5054	-0.0132	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	118	0 - 200	33.8903	33.8999	-0.0096	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	123	0 - 200	34.0352	34.04103	-0.0058	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	112	0 - 200	34.9265	34.93782	-0.0113	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	116	0 - 200	35.9737	35.97962	-0.0059	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	115	0 - 200	35.0602	35.0678	-0.0076	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	119	0 - 200	35.1827	35.18663	-0.0039	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	121	0 - 200	37.8678	37.86993	-0.0021	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	111	0 - 200	39.9958	40.00348	-0.0077	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	111	0 - 200	39.305	39.31458	-0.0096	N/A	
13C12-OCDD	200.00	108	0 - 200	43.7493	43.75875	-0.0095	N/A	
37C14-2,3,7,8-TCDD	10.000	105	0 - 200	25.427	25.43467	-0.0077	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SKC0306 Instrument: AUTOSPEC01  
 Sample ID: SKC0306-CCV1 Calibration: FC00062  
 File ID: 22032311 Analyzed: 03/23/22 17:34

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	101	71 - 129	24.7468	24.76933	-0.0225	N/A	
13C12-2,3,7,8-TCDD	100.00	104	82 - 118	25.397	25.4145	-0.0175	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	100	76 - 124	28.8772	28.8992	-0.0220	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	99.4	77 - 123	30.2253	30.24362	-0.0183	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	96.3	62 - 138	30.4817	30.5054	-0.0237	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	106	76 - 124	33.8798	33.8999	-0.0201	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	105	70 - 130	34.0247	34.04103	-0.0163	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	108	73 - 127	34.916	34.93782	-0.0218	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	105	74 - 126	35.9633	35.97962	-0.0163	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	99.9	85 - 115	35.0497	35.0678	-0.0181	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	103	85 - 115	35.1723	35.18663	-0.0143	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	108	78 - 122	37.8575	37.86993	-0.0124	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	77 - 123	39.9855	40.00348	-0.0180	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	104	72 - 128	39.2948	39.31458	-0.0198	N/A	
13C12-OCDD	200.00	106	48 - 152	43.741	43.75875	-0.0177	N/A	
37C14-2,3,7,8-TCDD	10.000	96.1	0 - 200	25.4122	25.43467	-0.0225	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0339

Instrument: AUTOSPEC01

Sample ID: SKL0339-ICV1

Calibration: FC00062

File ID: 22122802

Analyzed: 12/28/22 11:32

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	83.0	71 - 129	26.033	24.76933	1.2637	N/A	
13C12-2,3,7,8-TCDD	100.00	98.4	82 - 118	26.668	25.4145	1.2535	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	83.8	76 - 124	30.1933	28.8992	1.2941	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	83.3	77 - 123	31.5415	30.24362	1.2979	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	88.3	62 - 138	31.7867	30.5054	1.2813	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	101	76 - 124	35.1512	33.8999	1.2513	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	101	70 - 130	35.285	34.04103	1.2440	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	102	73 - 127	36.1428	34.93782	1.2050	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	99.4	74 - 126	37.1678	35.97962	1.1882	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	99.7	85 - 115	36.2653	35.0678	1.1975	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	95.7	85 - 115	36.3767	35.18663	1.1901	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	95.2	78 - 122	39.006	37.86993	1.1361	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	93.2	77 - 123	41.2788	40.00348	1.2753	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	113	72 - 128	40.5213	39.31458	1.2067	N/A	
13C12-OCDD	200.00	110	48 - 152	45.3475	43.75875	1.5888	N/A	
37Cl4-2,3,7,8-TCDD	10.000	92.2	0 - 200	26.683	25.43467	1.2483	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SKL0339 Instrument: AUTOSPEC01  
 Sample ID: SKL0339-CCV1 Calibration: FC00062  
 File ID: 22122812 Analyzed: 12/28/22 19:49

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	85.9	71 - 129	26.0027	24.76933	1.2334	N/A	
13C12-2,3,7,8-TCDD	100.00	102	82 - 118	26.6527	25.4145	1.2382	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	87.3	76 - 124	30.171	28.8992	1.2718	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	88.8	77 - 123	31.519	30.24362	1.2754	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	93.7	62 - 138	31.7753	30.5054	1.2699	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	100	76 - 124	35.129	33.8999	1.2291	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.8	70 - 130	35.2738	34.04103	1.2328	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	102	73 - 127	36.1315	34.93782	1.1937	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	112	74 - 126	37.1567	35.97962	1.1771	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	96.9	85 - 115	36.243	35.0678	1.1752	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	95.7	85 - 115	36.3543	35.18663	1.1677	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	95.2	78 - 122	38.995	37.86993	1.1251	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	77 - 123	41.2677	40.00348	1.2642	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	115	72 - 128	40.5102	39.31458	1.1956	N/A	
13C12-OCDD	200.00	119	48 - 152	45.3292	43.75875	1.5705	N/A	
37C14-2,3,7,8-TCDD	10.000	98.8	0 - 200	26.6678	25.43467	1.2331	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0339</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BKL0419-BLK1</u>	Calibration:	<u>FC00062</u>
File ID:	<u>22122814</u>	Analyzed:	<u>12/28/22 21:35</u>

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	77.0	24 - 169	26.0027	24.76933	1.2334	N/A	
13C12-2,3,7,8-TCDD	200.00	92.8	25 - 164	26.6377	25.4145	1.2232	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	81.4	24 - 185	30.1712	28.8992	1.2720	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	85.5	21 - 178	31.5193	30.24362	1.2757	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	89.5	25 - 181	31.7643	30.5054	1.2589	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	94.8	26 - 152	35.1292	33.8999	1.2293	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	94.2	26 - 123	35.2628	34.04103	1.2218	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	95.3	28 - 136	36.1318	34.93782	1.1940	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	101	29 - 147	37.1568	35.97962	1.1772	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	93.9	32 - 141	36.2433	35.0678	1.1755	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	88.1	28 - 130	36.3547	35.18663	1.1681	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	86.4	28 - 143	38.984	37.86993	1.1141	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	91.0	26 - 138	41.268	40.00348	1.2645	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	104	23 - 140	40.5105	39.31458	1.1959	N/A	
13C12-OCDD	400.00	101	17 - 157	45.3293	43.75875	1.5706	N/A	
37C14-2,3,7,8-TCDD	80.000	98.0	35 - 197	26.668	25.43467	1.2333	N/A	

\* Values outside of QC limits



## SURROGATE RECOVERY AND RT SUMMARY EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0339</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BKL0419-BS1</u>	Calibration:	<u>FC00062</u>
File ID:	<u>22122815</u>	Analyzed:	<u>12/28/22 22:24</u>

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	37.5	24 - 169	26.0177	24.76933	1.2484	N/A	
13C12-2,3,7,8-TCDD	200.00	45.0	25 - 164	26.6525	25.4145	1.2380	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	37.3	24 - 185	30.1818	28.8992	1.2826	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	36.5	21 - 178	31.5298	30.24362	1.2862	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	38.7	25 - 181	31.775	30.5054	1.2696	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	48.0	26 - 152	35.1397	33.8999	1.2398	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	48.9	26 - 123	35.2733	34.04103	1.2323	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	47.2	28 - 136	36.1313	34.93782	1.1935	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	50.3	29 - 147	37.1563	35.97962	1.1767	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	46.4	32 - 141	36.2538	35.0678	1.1860	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	44.5	28 - 130	36.3653	35.18663	1.1787	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	43.1	28 - 143	38.9947	37.86993	1.1248	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	45.8	26 - 138	41.2675	40.00348	1.2640	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	53.0	23 - 140	40.5098	39.31458	1.1952	N/A	
13C12-OCDD	400.00	47.2	17 - 157	45.3378	43.75875	1.5791	N/A	
37C14-2,3,7,8-TCDD	80.000	49.4	35 - 197	26.6677	25.43467	1.2330	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
Client: Anchor OEA, LLC Project: AOC4 UR Phase 3  
Sequence: SKL0339 Instrument: AUTOSPEC01  
Sample ID: BKL0419-SRM1 Calibration: FC00062  
File ID: 22122816 Analyzed: 12/28/22 23:14

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.20	81.8	24 - 169	26.0027	24.76933	1.2334	N/A	
13C12-2,3,7,8-TCDD	199.20	98.9	25 - 164	26.6528	25.4145	1.2383	N/A	
13C12-1,2,3,7,8-PeCDF	199.20	80.3	24 - 185	30.171	28.8992	1.2718	N/A	
13C12-2,3,4,7,8-PeCDF	199.20	81.7	21 - 178	31.5192	30.24362	1.2756	N/A	
13C12-1,2,3,7,8-PeCDD	199.20	86.2	25 - 181	31.7753	30.5054	1.2699	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.20	91.9	26 - 152	35.129	33.8999	1.2291	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.20	91.3	26 - 123	35.2738	34.04103	1.2328	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.20	96.3	28 - 136	36.1317	34.93782	1.1939	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.20	111	29 - 147	37.1567	35.97962	1.1771	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.20	91.9	32 - 141	36.2432	35.0678	1.1754	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.20	84.8	28 - 130	36.3657	35.18663	1.1791	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.20	78.5	28 - 143	38.995	37.86993	1.1251	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.20	89.4	26 - 138	41.2678	40.00348	1.2643	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.20	98.5	23 - 140	40.5102	39.31458	1.1956	N/A	
13C12-OCDD	398.41	96.8	17 - 157	45.3293	43.75875	1.5706	N/A	
37C14-2,3,7,8-TCDD	79.681	102	35 - 197	26.668	25.43467	1.2333	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0339</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BKL0419-DUP1</u>	Calibration:	<u>FC00062</u>
File ID:	<u>22122818</u>	Analyzed:	<u>12/29/22 00:53</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.91	72.6	24 - 169	26.0177	24.76933	1.2484	N/A	
13C12-2,3,7,8-TCDD	199.91	90.3	25 - 164	26.6528	25.4145	1.2383	N/A	
13C12-1,2,3,7,8-PeCDF	199.91	73.4	24 - 185	30.1822	28.8992	1.2830	N/A	
13C12-2,3,4,7,8-PeCDF	199.91	73.8	21 - 178	31.5303	30.24362	1.2867	N/A	
13C12-1,2,3,7,8-PeCDD	199.91	79.3	25 - 181	31.7865	30.5054	1.2811	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.91	85.2	26 - 152	35.1402	33.8999	1.2403	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.91	82.2	26 - 123	35.285	34.04103	1.2440	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.91	86.6	28 - 136	36.1427	34.93782	1.2049	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.91	92.9	29 - 147	37.1678	35.97962	1.1882	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.91	83.1	32 - 141	36.2542	35.0678	1.1864	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.91	80.7	28 - 130	36.3767	35.18663	1.1901	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.91	74.4	28 - 143	39.0062	37.86993	1.1363	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.91	76.6	26 - 138	41.279	40.00348	1.2755	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.91	91.6	23 - 140	40.5213	39.31458	1.2067	N/A	
13C12-OCDD	399.82	91.3	17 - 157	45.3475	43.75875	1.5888	N/A	
37Cl4-2,3,7,8-TCDD	79.964	95.0	35 - 197	26.6678	25.43467	1.2331	N/A	

\* Values outside of QC limits





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0339</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>22L0246-07</u>	Calibration:	<u>FC00062</u>
File ID:	<u>22122819</u>	Analyzed:	<u>12/29/22 01:42</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.04	74.7	24 - 169	26.0177	24.76933	1.2484	N/A	
13C12-2,3,7,8-TCDD	200.04	91.6	25 - 164	26.6678	25.4145	1.2533	N/A	
13C12-1,2,3,7,8-PeCDF	200.04	76.3	24 - 185	30.1932	28.8992	1.2940	N/A	
13C12-2,3,4,7,8-PeCDF	200.04	76.7	21 - 178	31.5413	30.24362	1.2977	N/A	
13C12-1,2,3,7,8-PeCDD	200.04	81.6	25 - 181	31.7865	30.5054	1.2811	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.04	84.1	26 - 152	35.151	33.8999	1.2511	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.04	81.7	26 - 123	35.2847	34.04103	1.2437	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.04	85.4	28 - 136	36.1537	34.93782	1.2159	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.04	93.4	29 - 147	37.1675	35.97962	1.1879	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.04	83.3	32 - 141	36.2652	35.0678	1.1974	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.04	79.4	28 - 130	36.3765	35.18663	1.1899	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.04	75.2	28 - 143	39.017	37.86993	1.1471	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.04	80.0	26 - 138	41.2898	40.00348	1.2863	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.04	96.1	23 - 140	40.5323	39.31458	1.2177	N/A	
13C12-OCDD	400.07	96.7	17 - 157	45.3565	43.75875	1.5978	N/A	
37Cl4-2,3,7,8-TCDD	80.014	99.4	35 - 197	26.683	25.43467	1.2483	N/A	

\* Values outside of QC limits





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0339</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>22L0246-09</u>	Calibration:	<u>FC00062</u>
File ID:	<u>22122821</u>	Analyzed:	<u>12/29/22 03:21</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.83	61.8	24 - 169	26.0328	24.76933	1.2635	N/A	
13C12-2,3,7,8-TCDD	199.83	75.6	25 - 164	26.6678	25.4145	1.2533	N/A	
13C12-1,2,3,7,8-PeCDF	199.83	62.5	24 - 185	30.1933	28.8992	1.2941	N/A	
13C12-2,3,4,7,8-PeCDF	199.83	63.9	21 - 178	31.5415	30.24362	1.2979	N/A	
13C12-1,2,3,7,8-PeCDD	199.83	68.1	25 - 181	31.7977	30.5054	1.2923	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.83	69.9	26 - 152	35.1512	33.8999	1.2513	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.83	67.1	26 - 123	35.296	34.04103	1.2550	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.83	71.1	28 - 136	36.154	34.93782	1.2162	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.83	75.5	29 - 147	37.179	35.97962	1.1994	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.83	69.6	32 - 141	36.2655	35.0678	1.1977	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.83	66.3	28 - 130	36.3768	35.18663	1.1902	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.83	63.5	28 - 143	39.0175	37.86993	1.1476	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.83	67.8	26 - 138	41.2903	40.00348	1.2868	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.83	80.4	23 - 140	40.5327	39.31458	1.2181	N/A	
13C12-OCDD	399.65	76.8	17 - 157	45.357	43.75875	1.5983	N/A	
37C14-2,3,7,8-TCDD	79.931	99.4	35 - 197	26.698	25.43467	1.2633	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0339</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>22L0246-10</u>	Calibration:	<u>FC00062</u>
File ID:	<u>22122822</u>	Analyzed:	<u>12/29/22 04:11</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.98	67.4	24 - 169	26.0328	24.76933	1.2635	N/A	
13C12-2,3,7,8-TCDD	199.98	83.8	25 - 164	26.6678	25.4145	1.2533	N/A	
13C12-1,2,3,7,8-PeCDF	199.98	71.7	24 - 185	30.1933	28.8992	1.2941	N/A	
13C12-2,3,4,7,8-PeCDF	199.98	72.2	21 - 178	31.5413	30.24362	1.2977	N/A	
13C12-1,2,3,7,8-PeCDD	199.98	77.3	25 - 181	31.7977	30.5054	1.2923	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.98	80.2	26 - 152	35.1513	33.8999	1.2514	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.98	79.5	26 - 123	35.2962	34.04103	1.2552	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.98	82.4	28 - 136	36.1538	34.93782	1.2160	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.98	88.1	29 - 147	37.179	35.97962	1.1994	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.98	79.3	32 - 141	36.2653	35.0678	1.1975	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.98	73.4	28 - 130	36.3878	35.18663	1.2012	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.98	71.0	28 - 143	39.0173	37.86993	1.1474	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.98	76.4	26 - 138	41.29	40.00348	1.2865	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.98	90.5	23 - 140	40.5323	39.31458	1.2177	N/A	
13C12-OCDD	399.95	87.2	17 - 157	45.3658	43.75875	1.6071	N/A	
37C14-2,3,7,8-TCDD	79.991	88.6	35 - 197	26.683	25.43467	1.2483	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SKL0339 Instrument: AUTOSPEC01  
 Sample ID: 22L0246-11 Calibration: FC00062  
 File ID: 22122823 Analyzed: 12/29/22 05:00

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.99	76.0	24 - 169	26.0328	24.76933	1.2635	N/A	
13C12-2,3,7,8-TCDD	199.99	91.3	25 - 164	26.6678	25.4145	1.2533	N/A	
13C12-1,2,3,7,8-PeCDF	199.99	75.5	24 - 185	30.2045	28.8992	1.3053	N/A	
13C12-2,3,4,7,8-PeCDF	199.99	75.3	21 - 178	31.5527	30.24362	1.3091	N/A	
13C12-1,2,3,7,8-PeCDD	199.99	81.2	25 - 181	31.7978	30.5054	1.2924	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.99	83.2	26 - 152	35.1627	33.8999	1.2628	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.99	79.5	26 - 123	35.2963	34.04103	1.2553	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.99	85.1	28 - 136	36.1653	34.93782	1.2275	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.99	90.6	29 - 147	37.1793	35.97962	1.1997	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.99	81.6	32 - 141	36.2767	35.0678	1.2089	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.99	75.5	28 - 130	36.3882	35.18663	1.2016	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.99	72.3	28 - 143	39.0288	37.86993	1.1589	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.99	79.5	26 - 138	41.3015	40.00348	1.2980	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.99	93.2	23 - 140	40.5438	39.31458	1.2292	N/A	
13C12-OCDD	399.98	89.4	17 - 157	45.3752	43.75875	1.6165	N/A	
37C14-2,3,7,8-TCDD	79.996	96.3	35 - 197	26.6982	25.43467	1.2635	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SKL0339 Instrument: AUTOSPEC01  
 Sample ID: SKL0339-CCV2 Calibration: FC00062  
 File ID: 22122824 Analyzed: 12/29/22 05:50

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	83.6	71 - 129	26.0328	24.76933	1.2635	N/A	
13C12-2,3,7,8-TCDD	100.00	102	82 - 118	26.6678	25.4145	1.2533	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	86.4	76 - 124	30.1933	28.8992	1.2941	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	89.5	77 - 123	31.5415	30.24362	1.2979	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	94.8	62 - 138	31.7977	30.5054	1.2923	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	97.3	76 - 124	35.1513	33.8999	1.2514	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	92.9	70 - 130	35.2962	34.04103	1.2552	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.9	73 - 127	36.154	34.93782	1.2162	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	105	74 - 126	37.179	35.97962	1.1994	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.6	85 - 115	36.2653	35.0678	1.1975	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	90.3	85 - 115	36.3768	35.18663	1.1902	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	93.7	78 - 122	39.0173	37.86993	1.1474	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	98.2	77 - 123	41.2903	40.00348	1.2868	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	116	72 - 128	40.5325	39.31458	1.2179	N/A	
13C12-OCDD	200.00	119	48 - 152	45.3662	43.75875	1.6075	N/A	
37C14-2,3,7,8-TCDD	10.000	96.3	0 - 200	26.683	25.43467	1.2483	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SLA0009

Instrument: AUTOSPEC01

Sample ID: SLA0009-ICV1

Calibration: GB00010

File ID: 23020122A

Analyzed: 02/02/23 06:23

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	96.4	71 - 129	25.8665	25.87167	-0.0052	N/A	
13C12-2,3,7,8-TCDD	100.00	104	82 - 118	26.5017	26.51423	-0.0125	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	98.9	76 - 124	30.015	30.03173	-0.0167	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	96.3	77 - 123	31.3518	31.36872	-0.0169	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	95.1	62 - 138	31.6082	31.62498	-0.0168	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	101	76 - 124	34.9617	34.9784	-0.0167	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	102	70 - 130	35.1065	35.11773	-0.0112	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	101	73 - 127	35.9643	35.97562	-0.0113	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	106	74 - 126	36.9893	37.00233	-0.0130	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	100	85 - 115	36.0868	36.09812	-0.0113	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	101	85 - 115	36.1982	36.21508	-0.0169	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	106	78 - 122	38.8277	38.84072	-0.0130	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	106	77 - 123	41.0782	41.09488	-0.0167	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	107	72 - 128	40.3317	40.3447	-0.0130	N/A	
13C12-OCDD	200.00	112	48 - 152	45.0832	45.10738	-0.0242	N/A	
37Cl4-2,3,7,8-TCDD	10.000	90.9	0 - 200	26.5167	26.53683	-0.0201	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SLA0009

Instrument: AUTOSPEC01

Sample ID: 22L0246-12

Calibration: GB00010

File ID: 23020124

Analyzed: 02/02/23 08:08

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.92	74.2	24 - 169	25.8667	25.87167	-0.0050	N/A	
13C12-2,3,7,8-TCDD	199.92	82.6	25 - 164	26.5017	26.51423	-0.0125	N/A	
13C12-1,2,3,7,8-PeCDF	199.92	76.7	24 - 185	30.0262	30.03173	-0.0055	N/A	
13C12-2,3,4,7,8-PeCDF	199.92	77.4	21 - 178	31.3522	31.36872	-0.0165	N/A	
13C12-1,2,3,7,8-PeCDD	199.92	75.9	25 - 181	31.6083	31.62498	-0.0167	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.92	76.6	26 - 152	34.9617	34.9784	-0.0167	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.92	76.1	26 - 123	35.1065	35.11773	-0.0112	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.92	78.2	28 - 136	35.9643	35.97562	-0.0113	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.92	81.3	29 - 147	36.9893	37.00233	-0.0130	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.92	80.1	32 - 141	36.087	36.09812	-0.0111	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.92	80.8	28 - 130	36.1983	36.21508	-0.0168	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.92	69.9	28 - 143	38.8277	38.84072	-0.0130	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.92	68.5	26 - 138	41.0782	41.09488	-0.0167	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.92	72.3	23 - 140	40.3317	40.3447	-0.0130	N/A	
13C12-OCDD	399.85	69.0	17 - 157	45.0832	45.10738	-0.0242	N/A	
37Cl4-2,3,7,8-TCDD	79.970	90.3	35 - 197	26.5318	26.53683	-0.0050	N/A	

\* Values outside of QC limits





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC                      SDG: 22L0246  
 Client: Anchor QEA, LLC    Project: AOC4 UR Phase 3  
 Sequence: SLA0009    Instrument: AUTOSPEC01  
 Sample ID: 22L0246-13    Calibration: GB00010  
 File ID: 23020125    Analyzed: 02/02/23 08:58

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.77	77.2	24 - 169	25.8817	25.87167	0.0100	N/A	
13C12-2,3,7,8-TCDD	199.77	87.6	25 - 164	26.5167	26.51423	0.0025	N/A	
13C12-1,2,3,7,8-PeCDF	199.77	84.2	24 - 185	30.0373	30.03173	0.0056	N/A	
13C12-2,3,4,7,8-PeCDF	199.77	83.3	21 - 178	31.3742	31.36872	0.0055	N/A	
13C12-1,2,3,7,8-PeCDD	199.77	84.8	25 - 181	31.6305	31.62498	0.0055	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.77	75.5	26 - 152	34.984	34.9784	0.0056	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.77	74.5	26 - 123	35.1177	35.11773	0.0000	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.77	77.2	28 - 136	35.9755	35.97562	-0.0001	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.77	80.0	29 - 147	37.0005	37.00233	-0.0018	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.77	80.6	32 - 141	36.098	36.09812	-0.0001	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.77	77.9	28 - 130	36.2205	36.21508	0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.77	68.1	28 - 143	38.8387	38.84072	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.77	65.7	26 - 138	41.0892	41.09488	-0.0057	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.77	70.9	23 - 140	40.3428	40.3447	-0.0019	N/A	
13C12-OCDD	399.55	66.6	17 - 157	45.1012	45.10738	-0.0062	N/A	
37C14-2,3,7,8-TCDD	79.910	87.0	35 - 197	26.5468	26.53683	0.0100	N/A	

\* Values outside of QC limits





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SLA0009 Instrument: AUTOSPEC01  
 Sample ID: 22L0246-42 Calibration: GB00010  
 File ID: 23020127 Analyzed: 02/02/23 10:37

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.56	72.4	24 - 169	25.8967	25.87167	0.0250	N/A	
13C12-2,3,7,8-TCDD	199.56	90.0	25 - 164	26.5317	26.51423	0.0175	N/A	
13C12-1,2,3,7,8-PeCDF	199.56	78.3	24 - 185	30.0483	30.03173	0.0166	N/A	
13C12-2,3,4,7,8-PeCDF	199.56	76.7	21 - 178	31.3852	31.36872	0.0165	N/A	
13C12-1,2,3,7,8-PeCDD	199.56	80.7	25 - 181	31.6413	31.62498	0.0163	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.56	80.1	26 - 152	35.0058	34.9784	0.0274	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.56	78.6	26 - 123	35.1397	35.11773	0.0220	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.56	78.0	28 - 136	35.9975	35.97562	0.0219	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.56	76.8	29 - 147	37.0225	37.00233	0.0202	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.56	86.8	32 - 141	36.12	36.09812	0.0219	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.56	85.6	28 - 130	36.2315	36.21508	0.0164	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.56	65.0	28 - 143	38.8607	38.84072	0.0200	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.56	63.5	26 - 138	41.1112	41.09488	0.0163	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.56	68.8	23 - 140	40.3648	40.3447	0.0201	N/A	
13C12-OCDD	399.11	65.9	17 - 157	45.1372	45.10738	0.0298	N/A	
37C14-2,3,7,8-TCDD	79.823	86.3	35 - 197	26.5468	26.53683	0.0100	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SLA0009 Instrument: AUTOSPEC01  
 Sample ID: 22L0246-43 Calibration: GB00010  
 File ID: 23020128 Analyzed: 02/02/23 11:26

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.83	72.4	24 - 169	25.8818	25.87167	0.0101	N/A	
13C12-2,3,7,8-TCDD	199.83	88.9	25 - 164	26.5168	26.51423	0.0026	N/A	
13C12-1,2,3,7,8-PeCDF	199.83	79.0	24 - 185	30.0375	30.03173	0.0058	N/A	
13C12-2,3,4,7,8-PeCDF	199.83	77.5	21 - 178	31.3743	31.36872	0.0056	N/A	
13C12-1,2,3,7,8-PeCDD	199.83	82.2	25 - 181	31.6307	31.62498	0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.83	79.1	26 - 152	34.9842	34.9784	0.0058	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.83	78.1	26 - 123	35.129	35.11773	0.0113	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.83	76.9	28 - 136	35.9867	35.97562	0.0111	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.83	78.1	29 - 147	37.0118	37.00233	0.0095	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.83	84.3	32 - 141	36.1093	36.09812	0.0112	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.83	82.8	28 - 130	36.2207	36.21508	0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.83	66.2	28 - 143	38.8502	38.84072	0.0095	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.83	65.7	26 - 138	41.1007	41.09488	0.0058	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.83	71.6	23 - 140	40.3542	40.3447	0.0095	N/A	
13C12-OCDD	399.66	69.7	17 - 157	45.12	45.10738	0.0126	N/A	
37Cl4-2,3,7,8-TCDD	79.931	83.4	35 - 197	26.547	26.53683	0.0102	N/A	

\* Values outside of QC limits





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLA0009</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>22L0246-45</u>	Calibration:	<u>GB00010</u>
File ID:	<u>23020130</u>	Analyzed:	<u>02/02/23 13:05</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.06	64.2	24 - 169	25.8817	25.87167	0.0100	N/A	
13C12-2,3,7,8-TCDD	200.06	80.0	25 - 164	26.5167	26.51423	0.0025	N/A	
13C12-1,2,3,7,8-PeCDF	200.06	73.0	24 - 185	30.0262	30.03173	-0.0055	N/A	
13C12-2,3,4,7,8-PeCDF	200.06	75.1	21 - 178	31.363	31.36872	-0.0057	N/A	
13C12-1,2,3,7,8-PeCDD	200.06	71.6	25 - 181	31.6193	31.62498	-0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.06	69.8	26 - 152	34.9727	34.9784	-0.0057	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.06	67.8	26 - 123	35.1065	35.11773	-0.0112	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.06	71.6	28 - 136	35.9755	35.97562	-0.0001	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.06	65.2	29 - 147	37.0003	37.00233	-0.0020	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.06	65.4	32 - 141	36.087	36.09812	-0.0111	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.06	71.0	28 - 130	36.2095	36.21508	-0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.06	70.1	28 - 143	38.8277	38.84072	-0.0130	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.06	66.9	26 - 138	41.0782	41.09488	-0.0167	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.06	78.0	23 - 140	40.3318	40.3447	-0.0129	N/A	
13C12-OCDD	400.13	76.4	17 - 157	45.1015	45.10738	-0.0059	N/A	
37C14-2,3,7,8-TCDD	80.026	73.2	35 - 197	26.5317	26.53683	-0.0051	N/A	

\* Values outside of QC limits











**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLA0009</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SLA0009-CCV1</u>	Calibration:	<u>GB00010</u>
File ID:	<u>23020134</u>	Analyzed:	<u>02/02/23 16:23</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	87.2	71 - 129	25.8515	25.87167	-0.0202	N/A	
13C12-2,3,7,8-TCDD	100.00	103	82 - 118	26.5017	26.51423	-0.0125	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	93.1	76 - 124	30.015	30.03173	-0.0167	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	92.4	77 - 123	31.352	31.36872	-0.0167	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	90.1	62 - 138	31.6082	31.62498	-0.0168	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	94.9	76 - 124	34.9618	34.9784	-0.0166	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	96.9	70 - 130	35.0955	35.11773	-0.0222	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	95.7	73 - 127	35.9533	35.97562	-0.0223	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	74 - 126	36.9895	37.00233	-0.0128	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	96.4	85 - 115	36.0758	36.09812	-0.0223	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	104	85 - 115	36.1873	36.21508	-0.0278	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	94.8	78 - 122	38.8167	38.84072	-0.0240	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	93.2	77 - 123	41.0672	41.09488	-0.0277	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	97.8	72 - 128	40.3207	40.3447	-0.0240	N/A	
13C12-OCDD	200.00	94.6	48 - 152	45.074	45.10738	-0.0334	N/A	
37Cl4-2,3,7,8-TCDD	10.000	90.3	0 - 200	26.5167	26.53683	-0.0201	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLB0026</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SLB0026-ICV1</u>	Calibration:	<u>GB00010</u>
File ID:	<u>23020102</u>	Analyzed:	<u>02/01/23 10:37</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	81.8	71 - 129	25.8667	25.87167	-0.0050	N/A	
13C12-2,3,7,8-TCDD	100.00	103	82 - 118	26.5168	26.51423	0.0026	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	97.0	76 - 124	30.0278	30.03173	-0.0039	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	96.3	77 - 123	31.3648	31.36872	-0.0039	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	97.3	62 - 138	31.621	31.62498	-0.0040	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	88.7	76 - 124	34.9858	34.9784	0.0074	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	89.6	70 - 130	35.1195	35.11773	0.0018	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	88.7	73 - 127	35.9773	35.97562	0.0017	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	87.8	74 - 126	37.0023	37.00233	0.0000	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	99.3	85 - 115	36.0998	36.09812	0.0017	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	102	85 - 115	36.2113	36.21508	-0.0038	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	80.6	78 - 122	38.8407	38.84072	0.0000	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	78.2	77 - 123	41.0912	41.09488	-0.0037	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	84.9	72 - 128	40.3447	40.3447	0.0000	N/A	
13C12-OCDD	200.00	87.8	48 - 152	45.1112	45.10738	0.0038	N/A	
37Cl4-2,3,7,8-TCDD	10.000	85.8	0 - 200	26.5318	26.53683	-0.0050	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SLB0026 Instrument: AUTOSPEC01  
 Sample ID: SLB0026-SCV1 Calibration: GB00010  
 File ID: 23020110 Analyzed: 02/01/23 20:23

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	101	0 - 200	25.8667	25.87167	-0.0050	N/A	
13C12-2,3,7,8-TCDD	100.00	97.3	0 - 200	26.5015	26.51423	-0.0127	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	97.9	0 - 200	30.0262	30.03173	-0.0055	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	96.0	0 - 200	31.3632	31.36872	-0.0055	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	95.6	0 - 200	31.6193	31.62498	-0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	99.0	0 - 200	34.9728	34.9784	-0.0056	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.8	0 - 200	35.1065	35.11773	-0.0112	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.3	0 - 200	35.9643	35.97562	-0.0113	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	98.6	0 - 200	36.9893	37.00233	-0.0130	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.7	0 - 200	36.0868	36.09812	-0.0113	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	101	0 - 200	36.2095	36.21508	-0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	100	0 - 200	38.8278	38.84072	-0.0129	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	101	0 - 200	41.0895	41.09488	-0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	101	0 - 200	40.3318	40.3447	-0.0129	N/A	
13C12-OCDD	200.00	103	0 - 200	45.1013	45.10738	-0.0061	N/A	
37Cl4-2,3,7,8-TCDD	10.000	89.4	0 - 200	26.5318	26.53683	-0.0050	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SLB0026 Instrument: AUTOSPEC01  
 Sample ID: SLB0026-CCV1 Calibration: GB00010  
 File ID: 23020111 Analyzed: 02/01/23 21:12

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	95.3	71 - 129	25.8665	25.87167	-0.0052	N/A	
13C12-2,3,7,8-TCDD	100.00	103	82 - 118	26.5167	26.51423	0.0025	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	97.8	76 - 124	30.026	30.03173	-0.0057	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	97.6	77 - 123	31.363	31.36872	-0.0057	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	95.1	62 - 138	31.6193	31.62498	-0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	102	76 - 124	34.9727	34.9784	-0.0057	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	102	70 - 130	35.1175	35.11773	-0.0002	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	99.6	73 - 127	35.9753	35.97562	-0.0003	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	101	74 - 126	37.0005	37.00233	-0.0018	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	100	85 - 115	36.098	36.09812	-0.0001	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	100	85 - 115	36.2093	36.21508	-0.0058	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	78 - 122	38.8387	38.84072	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	77 - 123	41.0893	41.09488	-0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	103	72 - 128	40.3428	40.3447	-0.0019	N/A	
13C12-OCDD	200.00	106	48 - 152	45.1013	45.10738	-0.0061	N/A	
37C14-2,3,7,8-TCDD	10.000	90.4	0 - 200	26.5317	26.53683	-0.0051	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY  
EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLC0045</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SLC0045-ICV1</u>	Calibration:	<u>GC00015</u>
File ID:	<u>23030302</u>	Analyzed:	<u>03/03/23 09:51</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	94.0	71 - 129	25.7745	25.76487	0.0096	N/A	
13C12-2,3,7,8-TCDD	100.00	102	82 - 118	26.4242	26.40287	0.0213	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	92.2	76 - 124	29.9337	29.92235	0.0114	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	87.6	77 - 123	31.2707	31.2611	0.0096	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	84.3	62 - 138	31.5268	31.5192	0.0076	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	84.0	76 - 124	34.8915	34.88393	0.0076	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	74.6	70 - 130	35.0363	35.02318	0.0131	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	88.7	73 - 127	35.8942	35.88653	0.0077	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	99.9	74 - 126	36.9303	36.91718	0.0131	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	93.5	85 - 115	36.0167	36.00728	0.0094	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	86.9	85 - 115	36.1393	36.12053	0.0188	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	95.3	78 - 122	38.7685	38.7593	0.0092	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	98.7	77 - 123	41.008	40.99867	0.0093	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	105	72 - 128	40.2615	40.25773	0.0038	N/A	
13C12-OCDD	200.00	107	48 - 152	44.9993	44.98705	0.0122	N/A	
37Cl4-2,3,7,8-TCDD	10.000	90.5	0 - 200	26.4383	26.42402	0.0143	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SLC0045 Instrument: AUTOSPEC01  
 Sample ID: SLC0045-SCV1 Calibration: GC00015  
 File ID: 23030310 Analyzed: 03/03/23 16:36

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	96.9	0 - 200	25.7602	25.76487	-0.0047	N/A	
13C12-2,3,7,8-TCDD	100.00	96.6	0 - 200	26.3958	26.40287	-0.0071	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	0 - 200	29.9225	29.92235	0.0001	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	0 - 200	31.2593	31.2611	-0.0018	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	0 - 200	31.5155	31.5192	-0.0037	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	0 - 200	34.8802	34.88393	-0.0037	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	0 - 200	35.014	35.02318	-0.0092	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	0 - 200	35.8828	35.88653	-0.0037	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	0 - 200	36.9078	36.91718	-0.0094	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	0 - 200	36.0053	36.00728	-0.0020	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	0 - 200	36.1168	36.12053	-0.0037	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	0 - 200	38.7573	38.7593	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	0 - 200	40.9967	40.99867	-0.0020	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	0 - 200	40.2502	40.25773	-0.0075	N/A	
13C12-OCDD	200.00	80.8	0 - 200	44.9807	44.98705	-0.0064	N/A	
37C14-2,3,7,8-TCDD	10.000	87.1	0 - 200	26.4242	26.42402	0.0002	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SLC0045 Instrument: AUTOSPEC01  
 Sample ID: SLC0045-CCV1 Calibration: GC00015  
 File ID: 23030311 Analyzed: 03/03/23 17:25

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	89.4	71 - 129	25.7602	25.76487	-0.0047	N/A	
13C12-2,3,7,8-TCDD	100.00	86.0	82 - 118	26.3958	26.40287	-0.0071	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	92.6	76 - 124	29.9225	29.92235	0.0001	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	91.6	77 - 123	31.2593	31.2611	-0.0018	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	90.8	62 - 138	31.5157	31.5192	-0.0035	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	95.2	76 - 124	34.8805	34.88393	-0.0034	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	91.1	70 - 130	35.0253	35.02318	0.0021	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	96.9	73 - 127	35.883	35.88653	-0.0035	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	101	74 - 126	36.9193	36.91718	0.0021	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.6	85 - 115	36.0057	36.00728	-0.0016	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	98.4	85 - 115	36.117	36.12053	-0.0035	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	78 - 122	38.7577	38.7593	-0.0016	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	84.3	77 - 123	40.997	40.99867	-0.0017	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	92.0	72 - 128	40.2617	40.25773	0.0040	N/A	
13C12-OCDD	200.00	85.1	48 - 152	44.9903	44.98705	0.0032	N/A	
37C14-2,3,7,8-TCDD	10.000	75.4	0 - 200	26.424	26.42402	0.0000	N/A	

\* Values outside of QC limits





**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLC0101</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SLC0101-ICV1</u>	Calibration:	<u>GC00015</u>
File ID:	<u>23030802</u>	Analyzed:	<u>03/08/23 10:35</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	103	71 - 129	25.7602	25.76487	-0.0047	N/A	
13C12-2,3,7,8-TCDD	100.00	100	82 - 118	26.3958	26.40287	-0.0071	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	107	76 - 124	29.9223	29.92235	-0.0001	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	112	77 - 123	31.2593	31.2611	-0.0018	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	104	62 - 138	31.5155	31.5192	-0.0037	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	101	76 - 124	34.8803	34.88393	-0.0036	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	94.4	70 - 130	35.0252	35.02318	0.0020	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	100	73 - 127	35.883	35.88653	-0.0035	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	111	74 - 126	36.9192	36.91718	0.0020	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	93.8	85 - 115	36.0055	36.00728	-0.0018	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	91.5	85 - 115	36.117	36.12053	-0.0035	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	124	78 - 129	38.7573	38.7593	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	102	77 - 123	40.9967	40.99867	-0.0020	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	98.8	72 - 128	40.2613	40.25773	0.0036	N/A	
13C12-OCDD	200.00	108	48 - 152	44.9992	44.98705	0.0121	N/A	
37Cl4-2,3,7,8-TCDD	10.000	89.6	0 - 200	26.424	26.42402	0.0000	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLC0101</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>22L0246-44RE1</u>	Calibration:	<u>GC00015</u>
File ID:	<u>23030804</u>	Analyzed:	<u>03/08/23 12:19</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.67	18.5	24 - 169	25.746	25.76487	-0.0189	N/A	*
13C12-2,3,7,8-TCDD	199.67	18.9	25 - 164	26.3817	26.40287	-0.0212	N/A	*
13C12-1,2,3,7,8-PeCDF	199.67	28.0	24 - 185	29.9112	29.92235	-0.0112	N/A	
13C12-2,3,4,7,8-PeCDF	199.67	30.0	21 - 178	31.2482	31.2611	-0.0129	N/A	
13C12-1,2,3,7,8-PeCDD	199.67	27.9	25 - 181	31.5043	31.5192	-0.0149	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.67	19.2	26 - 152	34.8802	34.88393	-0.0037	N/A	*
13C12-1,2,3,6,7,8-HxCDF	199.67	17.7	26 - 123	35.014	35.02318	-0.0092	N/A	*
13C12-2,3,4,6,7,8-HxCDF	199.67	19.4	28 - 136	35.883	35.88653	-0.0035	N/A	*
13C12-1,2,3,7,8,9-HxCDF	199.67	21.3	29 - 147	36.9078	36.91718	-0.0094	N/A	*
13C12-1,2,3,4,7,8-HxCDD	199.67	19.0	32 - 141	35.9943	36.00728	-0.0130	N/A	*
13C12-1,2,3,6,7,8-HxCDD	199.67	16.9	28 - 130	36.117	36.12053	-0.0035	N/A	*
13C12-1,2,3,4,6,7,8-HpCDF	199.67	21.5	28 - 143	38.7573	38.7593	-0.0020	N/A	*
13C12-1,2,3,4,7,8,9-HpCDF	199.67	19.0	26 - 138	40.9855	40.99867	-0.0132	N/A	*
13C12-1,2,3,4,6,7,8-HpCDD	199.67	19.0	23 - 140	40.2503	40.25773	-0.0074	N/A	*
13C12-OCDD	399.34	19.2	17 - 157	44.9902	44.98705	0.0031	N/A	
37C14-2,3,7,8-TCDD	79.867	24.4	35 - 197	26.41	26.42402	-0.0140	N/A	*

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0246</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLC0101</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>22L0246-45RE1</u>	Calibration:	<u>GC00015</u>
File ID:	<u>23030805</u>	Analyzed:	<u>03/08/23 13:08</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.06	74.7	24 - 169	25.746	25.76487	-0.0189	N/A	
13C12-2,3,7,8-TCDD	200.06	75.8	25 - 164	26.3817	26.40287	-0.0212	N/A	
13C12-1,2,3,7,8-PeCDF	200.06	100	24 - 185	29.9113	29.92235	-0.0111	N/A	
13C12-2,3,4,7,8-PeCDF	200.06	101	21 - 178	31.2482	31.2611	-0.0129	N/A	
13C12-1,2,3,7,8-PeCDD	200.06	93.3	25 - 181	31.5045	31.5192	-0.0147	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.06	75.7	26 - 152	34.8692	34.88393	-0.0147	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.06	70.7	26 - 123	35.014	35.02318	-0.0092	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.06	73.4	28 - 136	35.8718	35.88653	-0.0147	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.06	72.8	29 - 147	36.9078	36.91718	-0.0094	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.06	71.2	32 - 141	35.9943	36.00728	-0.0130	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.06	66.4	28 - 130	36.1057	36.12053	-0.0148	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.06	86.2	28 - 143	38.7573	38.7593	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.06	78.2	26 - 138	40.9968	40.99867	-0.0019	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.06	81.6	23 - 140	40.2503	40.25773	-0.0074	N/A	
13C12-OCDD	400.13	75.5	17 - 157	44.9812	44.98705	-0.0059	N/A	
37C14-2,3,7,8-TCDD	80.026	76.3	35 - 197	26.4098	26.42402	-0.0142	N/A	

\* Values outside of QC limits



**SURROGATE RECOVERY AND RT SUMMARY**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC SDG: 22L0246  
 Client: Anchor QEA, LLC Project: AOC4 UR Phase 3  
 Sequence: SLC0101 Instrument: AUTOSPEC01  
 Sample ID: SLC0101-CCV1 Calibration: GC00015  
 File ID: 23030814 Analyzed: 03/08/23 20:31

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	96.4	71 - 129	25.7602	25.76487	-0.0047	N/A	
13C12-2,3,7,8-TCDD	100.00	100	82 - 118	26.3958	26.40287	-0.0071	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	135	76 - 124	29.9113	29.92235	-0.0111	N/A	*
13C12-2,3,4,7,8-PeCDF	100.00	134	77 - 123	31.2483	31.2611	-0.0128	N/A	*
13C12-1,2,3,7,8-PeCDD	100.00	122	62 - 138	31.5047	31.5192	-0.0145	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	92.1	76 - 124	34.8805	34.88393	-0.0034	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	82.9	70 - 130	35.0253	35.02318	0.0021	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	91.9	73 - 127	35.8832	35.88653	-0.0033	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	98.4	74 - 126	36.9192	36.91718	0.0020	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	96.0	85 - 115	36.0057	36.00728	-0.0016	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	86.1	85 - 115	36.117	36.12053	-0.0035	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	112	78 - 122	38.7687	38.7593	0.0094	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	107	77 - 123	40.997	40.99867	-0.0017	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	105	72 - 128	40.2617	40.25773	0.0040	N/A	
13C12-OCDD	200.00	112	48 - 152	44.9995	44.98705	0.0124	N/A	
37Cl4-2,3,7,8-TCDD	10.000	88.4	0 - 200	26.41	26.42402	-0.0140	N/A	

\* Values outside of QC limits



## HOLDING TIME SUMMARY

**Analysis: EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT810A 22L0246-07	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	12/29/22 01:42	9	365	
LDW22-IT810B 22L0246-08	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	12/29/22 02:32	9	365	
LDW22-IT810C 22L0246-09	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	12/29/22 03:21	10	365	
LDW22-IT810B-FD 22L0246-10	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	12/29/22 04:11	10	365	
LDW22-IT810D 22L0246-11	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	12/29/22 05:00	10	365	
LDW22-IT810E 22L0246-12	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 08:08	45	365	
LDW22-IT810F 22L0246-13	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 08:58	45	365	
LDW22-IT810G 22L0246-14	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 09:47	45	365	
LDW22-IT809A 22L0246-42	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 10:37	45	365	
LDW22-IT809B 22L0246-43	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 11:26	45	365	
LDW22-IT809C 22L0246-44	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 12:16	45	365	
LDW22-IT809C 22L0246-44RE1	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	03/08/23 12:19	79	365	
LDW22-IT809D 22L0246-45	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 13:05	45	365	
LDW22-IT809D 22L0246-45RE1	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	03/08/23 13:08	79	365	
LDW22-IT809E 22L0246-46	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 13:55	45	365	
LDW22-IT809F 22L0246-47	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 14:44	45	365	
LDW22-IT809G 22L0246-48	12/09/22 11:44	12/09/22 16:40	12/19/22 15:18	10	14	02/02/23 15:34	45	365	
Duplicate BKL0419-DUP1	12/09/22 08:40	12/09/22 16:40	12/19/22 15:18	10	14	12/29/22 00:53	9	365	

\* Indicates hold time exceedance.



**METHOD DETECTION  
AND REPORTING LIMITS**  
**EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 22L0246

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Instrument: AUTOSPEC01

Analyte	MDL	RL	Units
2,3,7,8-TCDF	0.058	1.00	ng/kg
2,3,7,8-TCDD	0.150	1.00	ng/kg
1,2,3,7,8-PeCDF	0.240	1.00	ng/kg
2,3,4,7,8-PeCDF	0.220	1.00	ng/kg
1,2,3,7,8-PeCDD	0.170	1.00	ng/kg
1,2,3,4,7,8-HxCDF	0.280	1.00	ng/kg
1,2,3,6,7,8-HxCDF	0.200	1.00	ng/kg
2,3,4,6,7,8-HxCDF	0.170	1.00	ng/kg
1,2,3,7,8,9-HxCDF	0.190	1.00	ng/kg
1,2,3,4,7,8-HxCDD	0.170	1.00	ng/kg
1,2,3,6,7,8-HxCDD	0.180	1.00	ng/kg
1,2,3,7,8,9-HxCDD	0.220	1.00	ng/kg
1,2,3,4,6,7,8-HpCDF	0.210	1.00	ng/kg
1,2,3,4,7,8,9-HpCDF	0.240	1.00	ng/kg
1,2,3,4,6,7,8-HpCDD	0.560	2.50	ng/kg
OCDF	1.10	2.50	ng/kg
OCDD	4.60	10.0	ng/kg
Total TCDF		1.00	ng/kg
Total TCDD		1.00	ng/kg
Total PeCDF		1.00	ng/kg
Total PeCDD		1.00	ng/kg
Total HxCDF		1.00	ng/kg
Total HxCDD		1.00	ng/kg
Total HpCDF		1.00	ng/kg
Total HpCDD		1.00	ng/kg



**CS3WT**

**Calibration and Verification Solution (EPA-1613CS3)  
combined with Window Defining and 2,3,7,8-TCDD  
Resolution Testing Congeners**

**PRODUCT CODE:** CS3WT  
**LOT NUMBER:** CS3WT0617  
**SOLVENT(S):** Nonane/Toluene  
**DATE PREPARED:** (mm/dd/yyyy) 06/27/2017  
**LAST TESTED:** (mm/dd/yyyy) 06/27/2017  
**EXPIRY DATE:** (mm/dd/yyyy) 06/27/2024  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

<b>G001361</b>
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1613 CS3WT CCAL STD  
Expires 6/27/2024  
*Prepared By Joshua Rains 2/13/2018*

**DESCRIPTION:**

CS3WT is a solution/mixture of native and <sup>13</sup>C<sub>12</sub>-labelled chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

CS3WT was designed and prepared to be used as a HRMS calibration standard according to U.S. EPA Method 1613B.

It is to be used for calibration verification in place of EPA-1613CS3 (Lot: 13CS30617). It also contains the PCDD and PCDF window defining congeners for a DB-5 (or equivalent) capillary column as well as the TCDD isomers required to test and confirm the resolution of 2,3,7,8-TCDD.

The individual <sup>13</sup>C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-<sup>37</sup>Cl<sub>4</sub>-tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (<sup>37</sup>Cl) purity of ≥95%. The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT (CS3WT0617) is to be used with the 1613 calibration solutions having the following lot numbers:

<b><u>PRODUCT CODE</u></b>	<b><u>LOT NUMBER</u></b>
EPA-1613CS1	13CS10617
EPA-1613CS2	13CS20617
EPA-1613CS3	13CS30617
EPA-1613CS4	13CS40617
EPA-1613CS5	13CS50617
EPA-1613CSL	13CSL0617
EPA-1613CS0.5	13CS0.50617

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture  
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 3 for further details.
- Only the 2,3,7,8-substituted PCDDs and PCDFs should be used for quantitation. The other congeners (window defining and 2378-TCDD resolution testing) should be considered semi-quantitative (within  $\pm 20\%$  of their design value). Impurities have been identified where possible.



**INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

**HAZARDS:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

**SYNTHESIS / CHARACTERIZATION:**

Where possible, all of our products are synthesized using single-product unambiguous routes. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

**HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

**UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to the quantitative analytes in this mixture. Conversely, semi-quantitative analytes have been assigned an uncertainty of  $\pm 20\%$ .

**TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly tested by an external ISO/IEC 17025 accredited calibration company. In addition, their calibration is verified prior to each weighing using calibrated NIST and/or NRC traceable external weights. All volumetric glassware used is calibrated, of Class A tolerance, and has been tested according to the appropriate ASTM procedures, which are ultimately traceable to NIST. For certain products, traceability to international interlaboratory studies has also been established.

**EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

**LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

**QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO GUIDE 34 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: CS3WT; Components and Concentrations (ng/ml, in nonane/4.5% toluene)**

**QUANTITATIVE ANALYTES (ng/ml, ±5%)**

**Native PCDDs & PCDFs:**

2,3,7,8-TCDD	10
2,3,7,8-TCDF	10
1,2,3,7,8-PeCDD	50
1,2,3,7,8-PeCDF	50
2,3,4,7,8-PeCDF	50
1,2,3,4,7,8-HxCDD	50
1,2,3,6,7,8-HxCDD	50
1,2,3,7,8,9-HxCDD	50
1,2,3,4,7,8-HxCDF	50
1,2,3,6,7,8-HxCDF	50
1,2,3,7,8,9-HxCDF	50
2,3,4,6,7,8-HxCDF	50
1,2,3,4,6,7,8-HpCDD (WD)	50
1,2,3,4,6,7,8-HpCDF (WD)	50
1,2,3,4,7,8,9-HpCDF (WD)	50
OCDD	100
OCDF	100

**Labelled PCDDs & PCDFs:**

<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	100
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	100
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	100
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	100
<sup>13</sup> C <sub>12</sub> -OCDD	200

**Cleanup Standard:**

<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	10
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**Internal Standards:**

<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	100

**SEMI-QUANTITATIVE ANALYTES (ng/ml, ±20%)**

**Window Definers:\***

1,3,6,8-TCDD	10
1,2,8,9-TCDD	10
1,3,6,8-TCDF	10
1,2,8,9-TCDF	10
1,2,4,6,8/1,2,4,7,9-PeCDD	50
1,2,3,8,9-PeCDD	50
1,3,4,6,8-PeCDF	50
1,2,3,8,9-PeCDF	50
1,2,4,6,7,9-HxCDD	50
1,2,3,4,6,8-HxCDF	50
1,2,3,4,6,7,9-HpCDD	50

**2378-TCDD Resolution Testing Isomers:**

1,2,3,4-TCDD	5
1,2,3,7/1,2,3,8-TCDD	5
1,2,3,9-TCDD	10

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\* 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD. Use 1,2,3,4,6,7,9-HpCDD to set window.

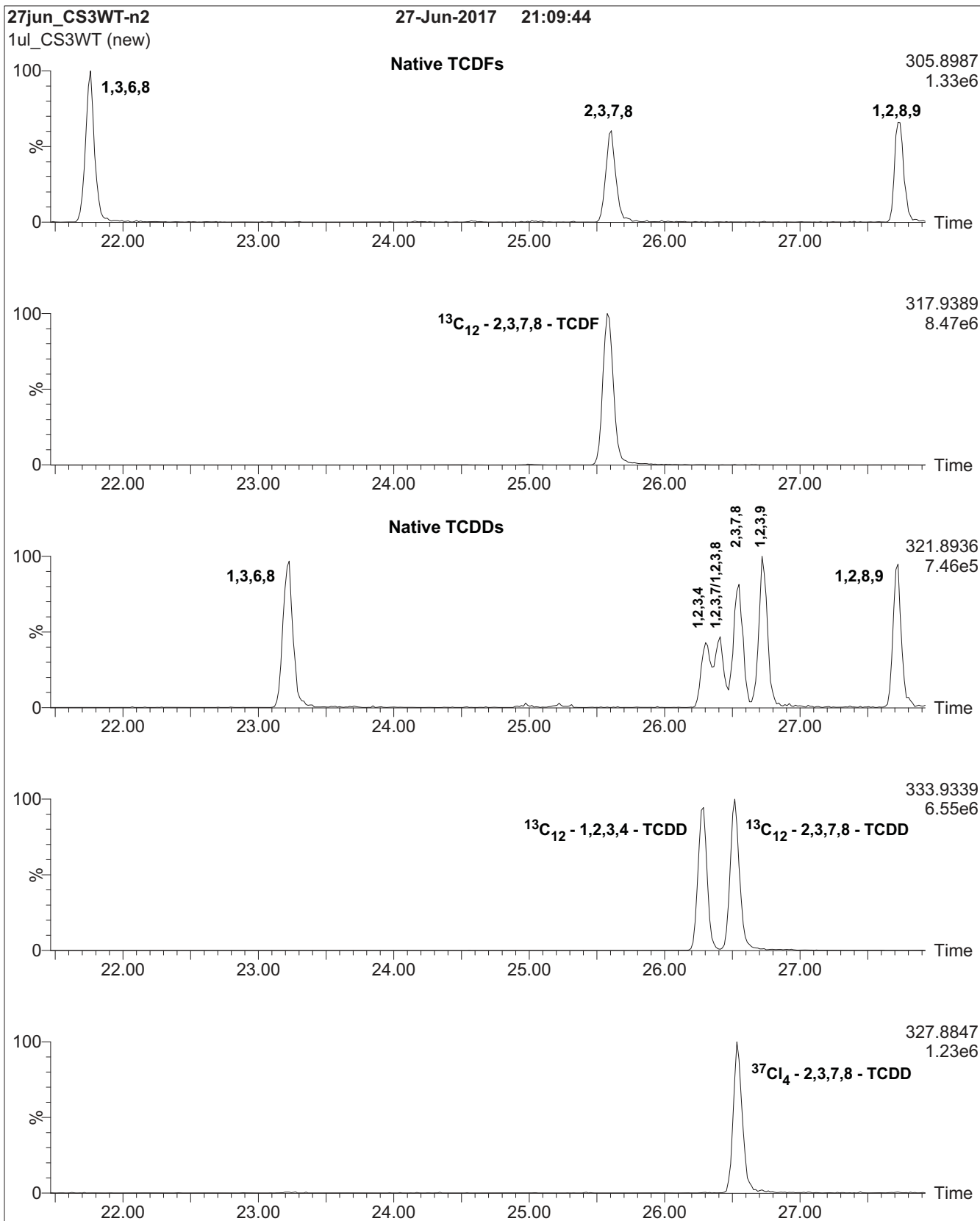
\* 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF. Use 1,2,3,4,6,7,8-HpCDF to set window.

WD – Window Definer

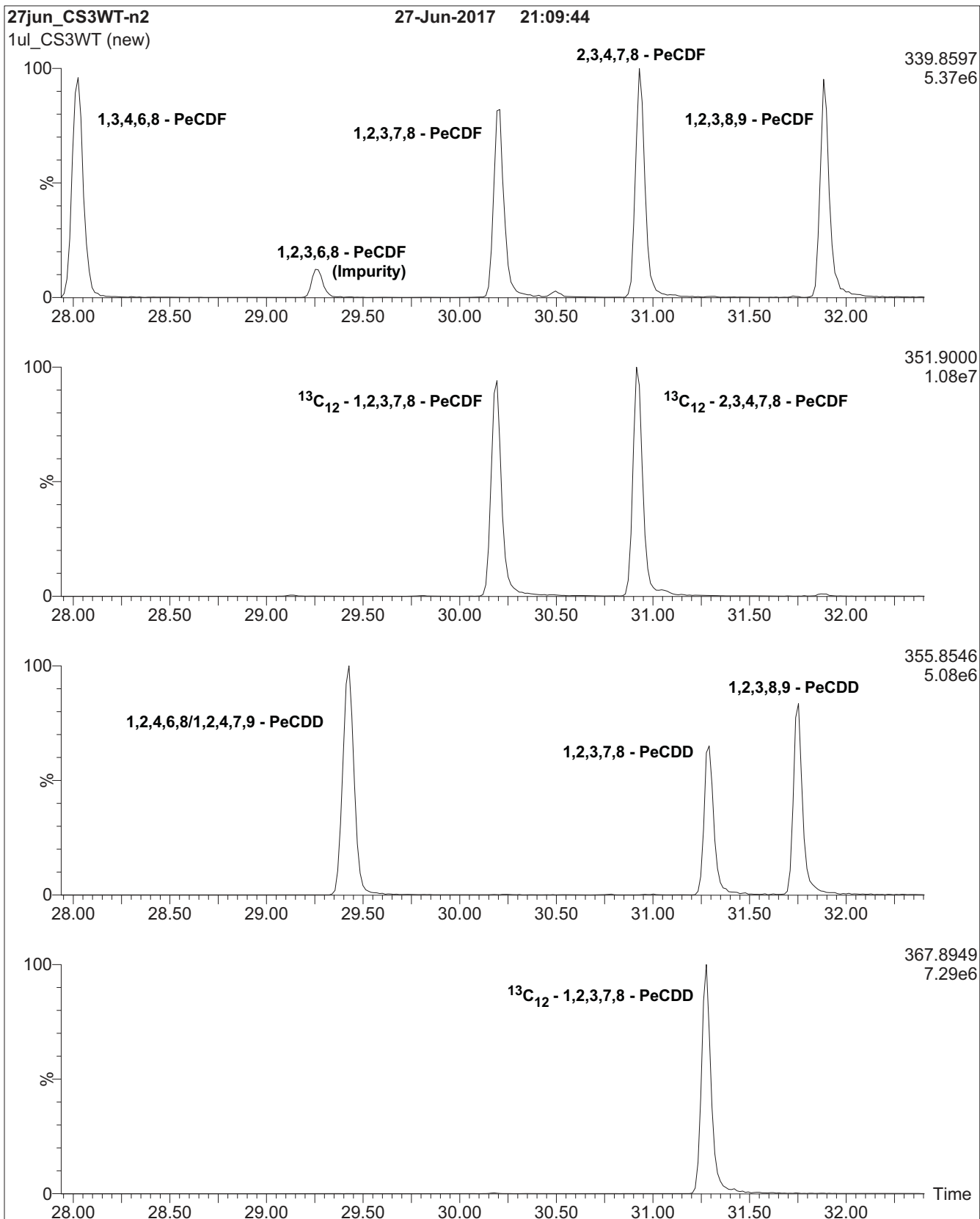
Certified By:   
B.G. Chittim, General Manager

Date: 07/19/2017  
(mm/dd/yyyy)

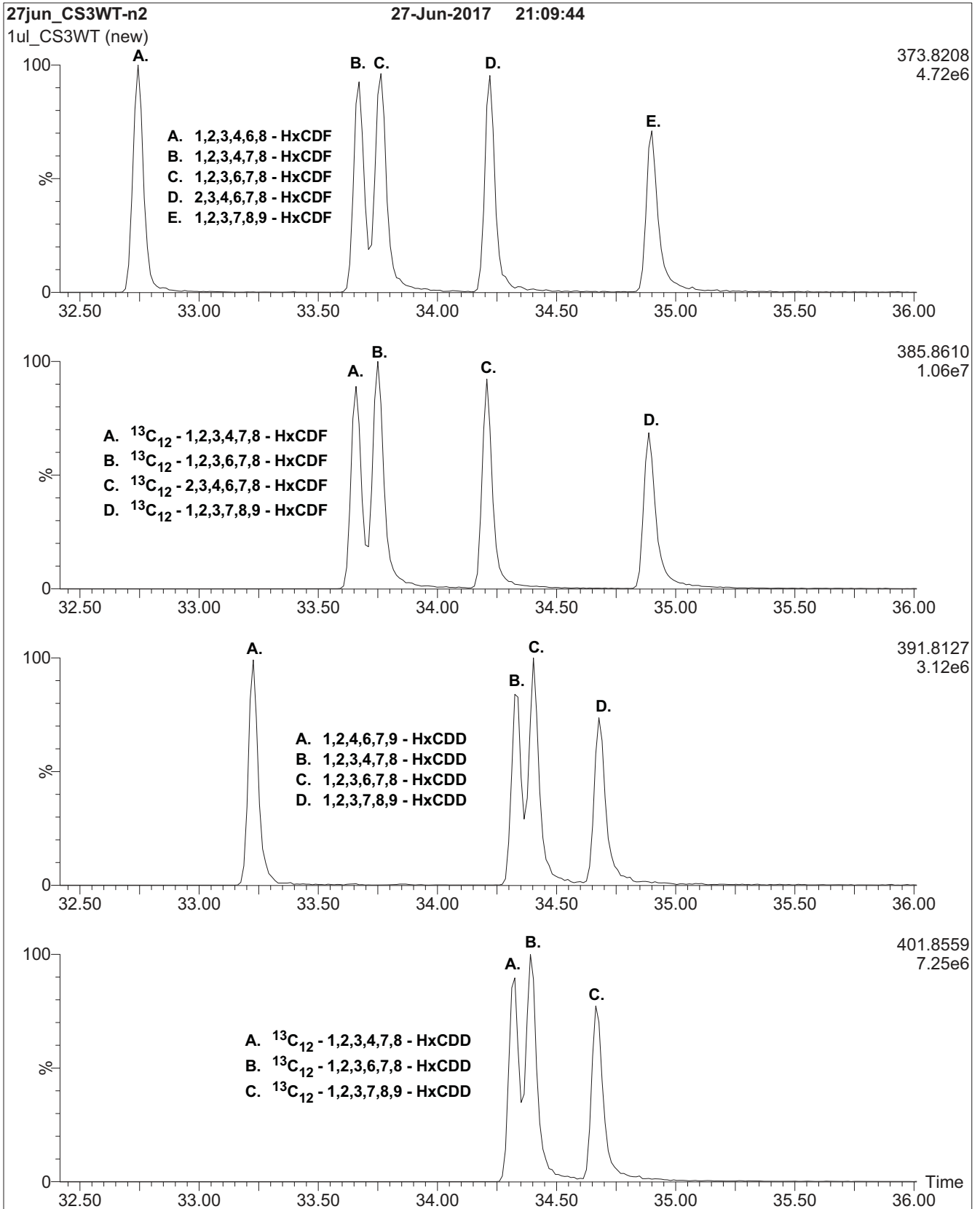
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



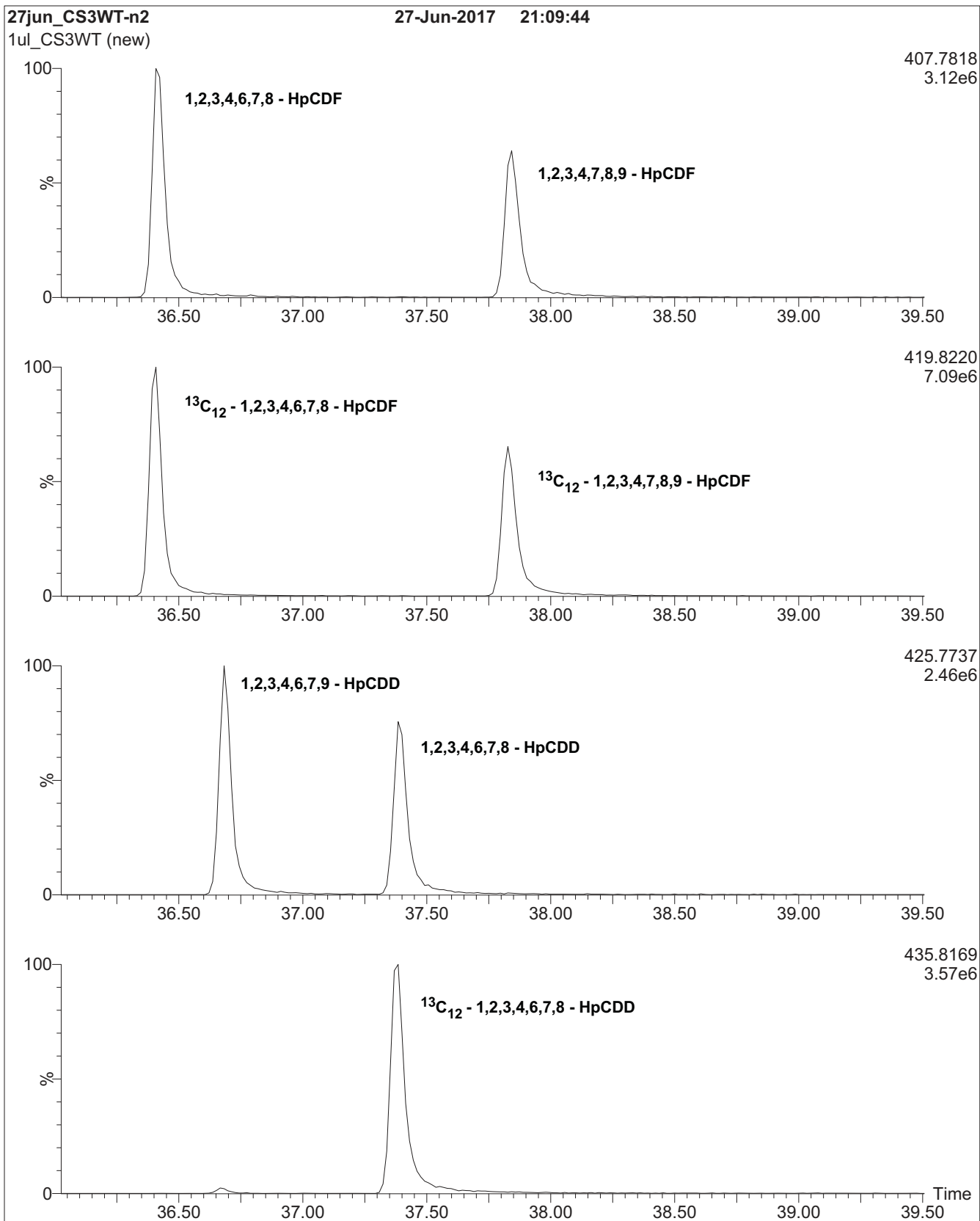
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



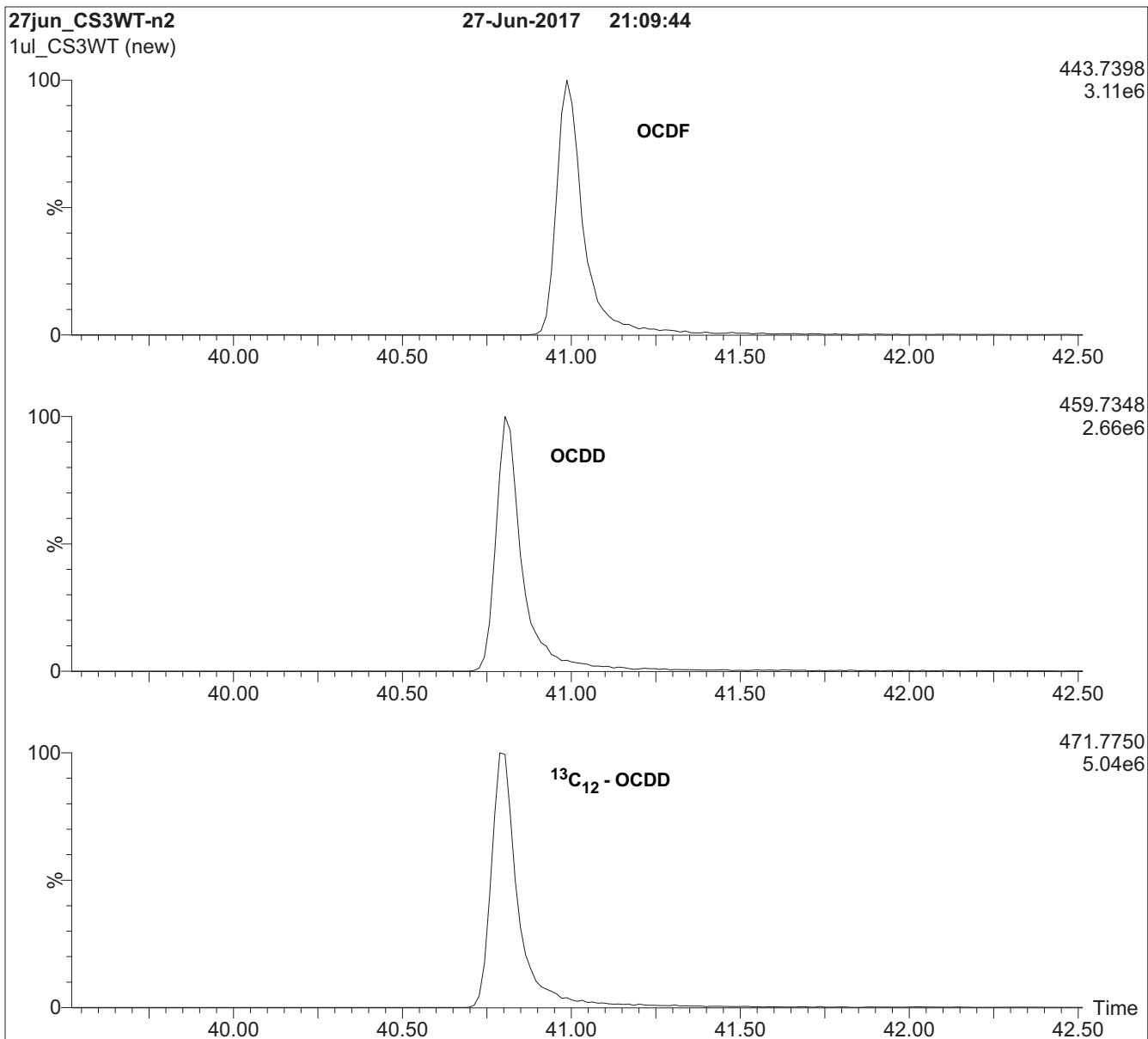
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**HRGC/HRMS:**

Agilent 6890N (HRGC)  
Autospec Ultima (HRMS)

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)

12 °C/min to 200 °C

3 °C/min to 235 °C

235 °C (8 min)

8 °C/min to 310 °C

310 °C (8 min)



**CS3WT**

**Calibration and Verification Solution (EPA-1613CS3)  
combined with Window Defining and 2,3,7,8-TCDD  
Resolution Testing Congeners**

**PRODUCT CODE:** CS3WT  
**LOT NUMBER:** CS3WT0918  
**SOLVENT(S):** Nonane/Toluene  
**DATE PREPARED:** (mm/dd/yyyy) 10/24/2018  
**LAST TESTED:** (mm/dd/yyyy) 10/29/2018  
**EXPIRY DATE:** (mm/dd/yyyy) 10/29/2025  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DESCRIPTION:**

CS3WT is a solution/mixture of native and  $^{13}\text{C}_{12}$ -labelled chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

CS3WT was designed and prepared to be used as a HRMS calibration standard according to U.S. EPA Method 1613B.

It is to be used for calibration verification in place of EPA-1613CS3 (Lot: 13CS30918). It also contains the PCDD and PCDF window defining congeners for a DB-5 (or equivalent) capillary column as well as the TCDD isomers required to test and confirm the resolution of 2,3,7,8-TCDD.

The individual  $^{13}\text{C}$ -labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of  $\geq 99\%$ . The 2,3,7,8- $^{37}\text{Cl}_4$ -tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic ( $^{37}\text{Cl}$ ) purity of  $\geq 95\%$ . The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

<b><u>PRODUCT CODE</u></b>	<b><u>LOT NUMBER</u></b>
EPA-1613CS1	13CS10918
EPA-1613CS2	13CS20918
EPA-1613CS3	13CS30918
EPA-1613CS4	13CS40918
EPA-1613CS5	13CS50918
EPA-1613CSL	13CSL0918
EPA-1613CS0.5	13CS0.50918

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**



**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture  
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 3 for further details.
- Only the 2,3,7,8-substituted PCDDs and PCDFs should be used for quantitation. The other congeners (window defining and 2378-TCDD resolution testing) should be considered semi-quantitative (within  $\pm 20\%$  of their design value). Impurities have been identified where possible.

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: CS3WT; Components and Concentrations (ng/ml, in nonane/4.5% toluene)**

**QUANTITATIVE ANALYTES (ng/ml, ±5%)**

**Native PCDDs & PCDFs:**

2,3,7,8-TCDD	10
2,3,7,8-TCDF	10
1,2,3,7,8-PeCDD	50
1,2,3,7,8-PeCDF	50
2,3,4,7,8-PeCDF	50
1,2,3,4,7,8-HxCDD	50
1,2,3,6,7,8-HxCDD	50
1,2,3,7,8,9-HxCDD	50
1,2,3,4,7,8-HxCDF	50
1,2,3,6,7,8-HxCDF	50
1,2,3,7,8,9-HxCDF	50
2,3,4,6,7,8-HxCDF	50
1,2,3,4,6,7,8-HpCDD (WD)	50
1,2,3,4,6,7,8-HpCDF (WD)	50
1,2,3,4,7,8,9-HpCDF (WD)	50
OCDD	100
OCDF	100

**Labelled PCDDs & PCDFs:**

<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	100
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	100
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	100
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	100
<sup>13</sup> C <sub>12</sub> -OCDD	200

**Cleanup Standard:**

<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	10
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**Internal Standards:**

<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	100

**SEMI-QUANTITATIVE ANALYTES (ng/ml, ±20%)**

**Window Definers:\***

1,3,6,8-TCDD	10
1,2,8,9-TCDD	10
1,3,6,8-TCDF	10
1,2,8,9-TCDF	10
1,2,4,6,8/1,2,4,7,9-PeCDD	50
1,2,3,8,9-PeCDD	50
1,3,4,6,8-PeCDF	50
1,2,3,8,9-PeCDF	50
1,2,4,6,7,9-HxCDD	50
1,2,3,4,6,8-HxCDF	50
1,2,3,4,6,7,9-HpCDD	50

**2378-TCDD Resolution Testing Isomers:**

1,2,3,4-TCDD	5
1,2,3,7/1,2,3,8-TCDD	5
1,2,3,9-TCDD	10

---

\* 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD. Use 1,2,3,4,6,7,9-HpCDD to set window.

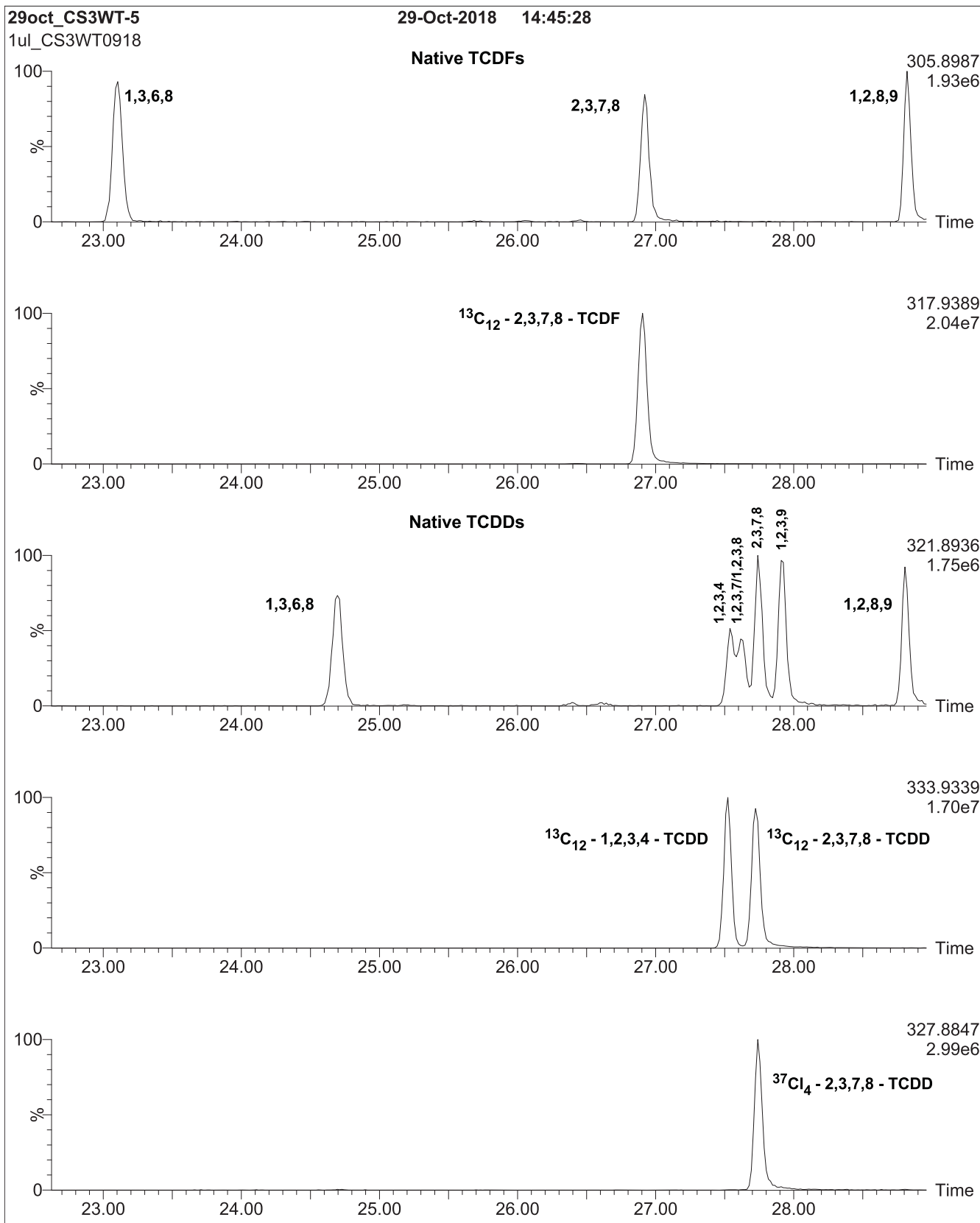
\* 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF. Use 1,2,3,4,6,7,8-HpCDF to set window.

WD – Window Definer

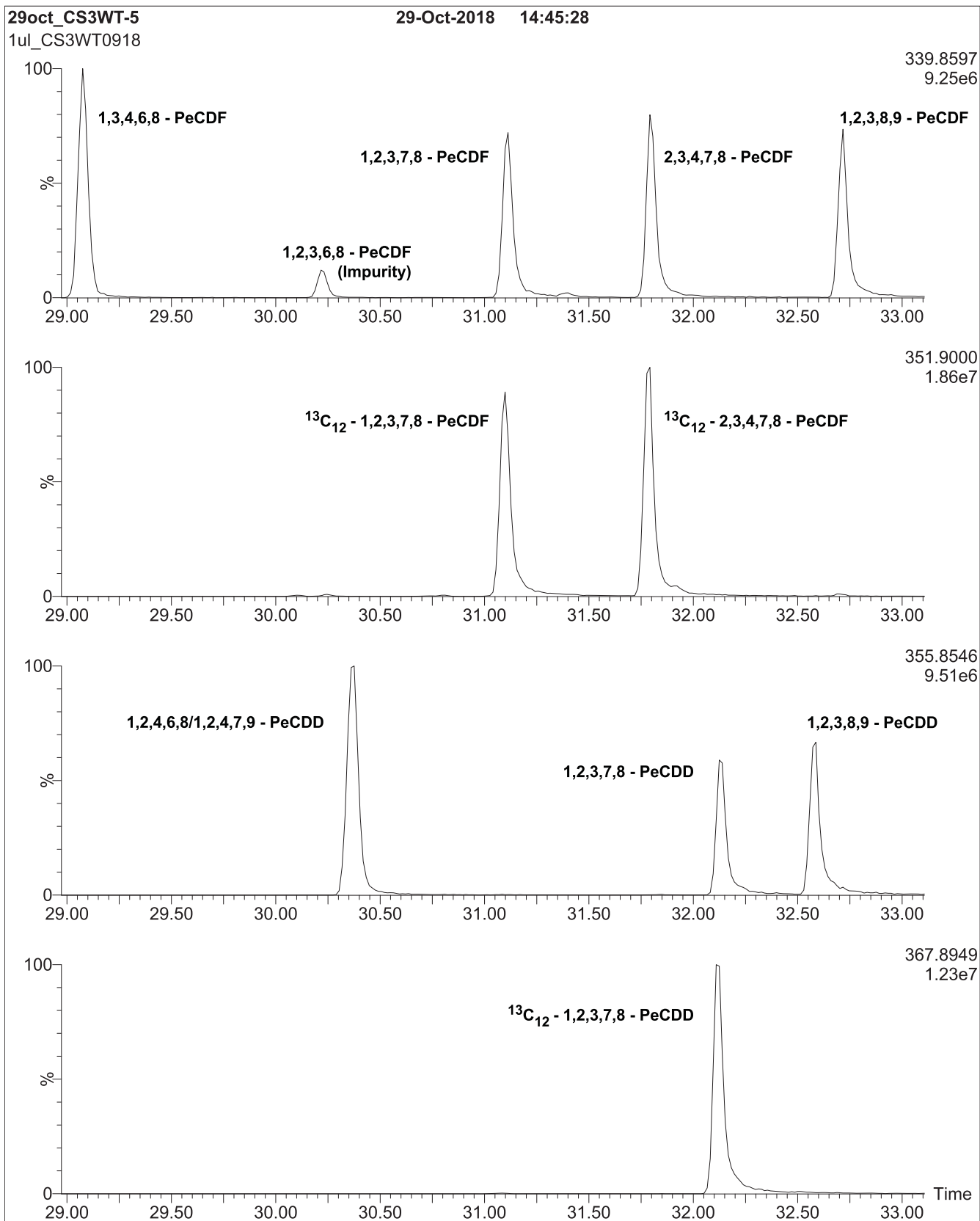
Certified By:   
B.G. Chittim, General Manager

Date: 10/30/2018  
(mm/dd/yyyy)

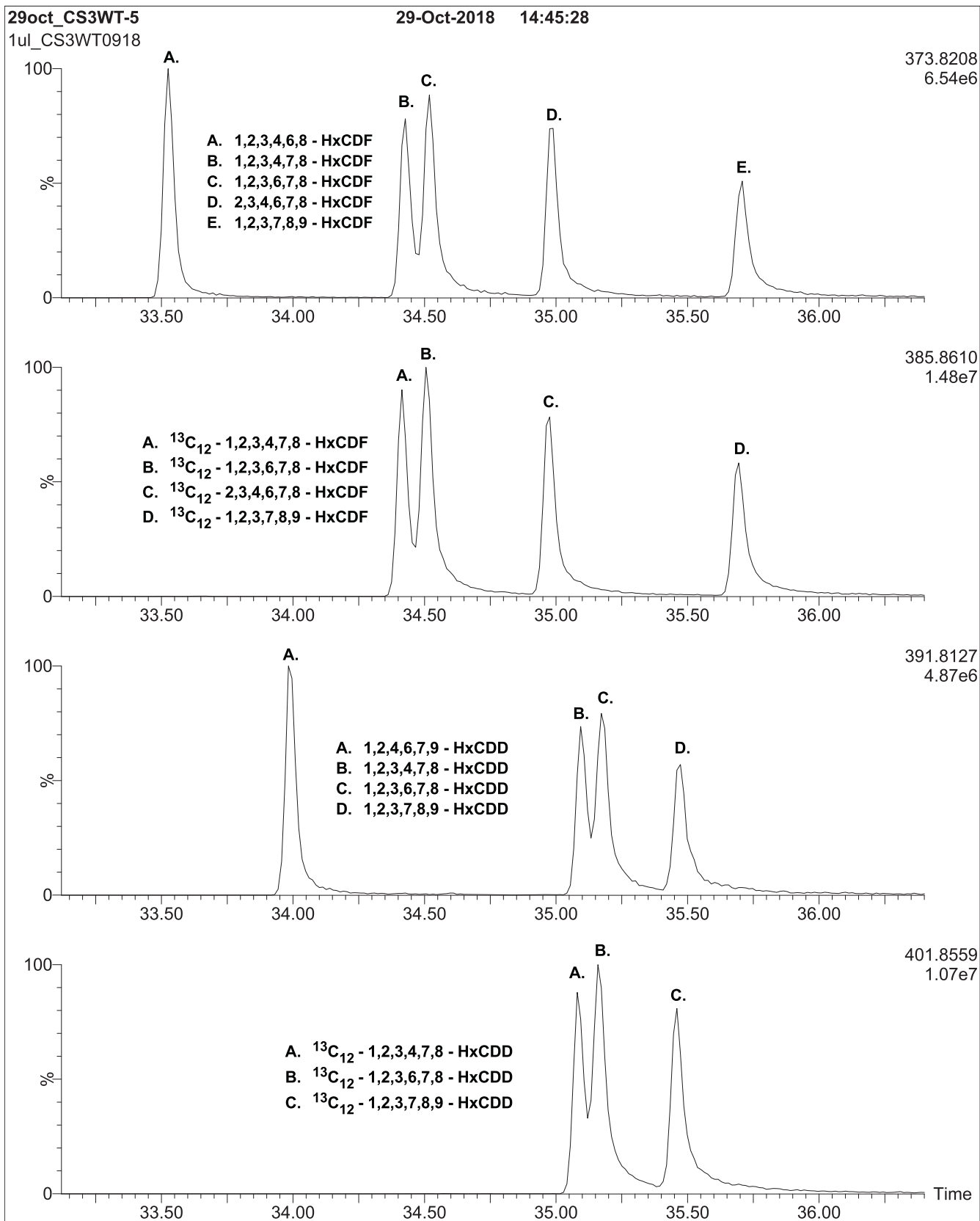
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



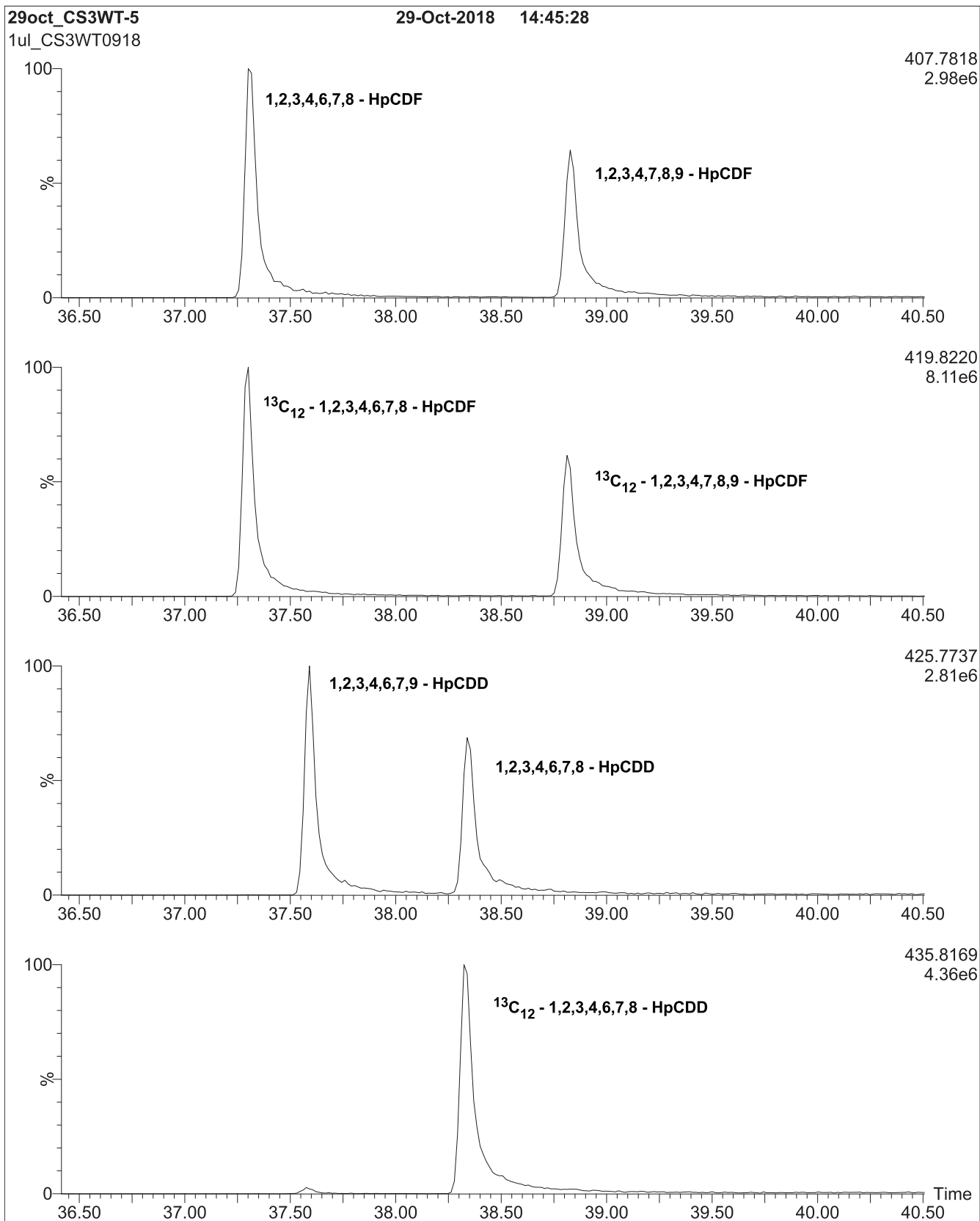
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



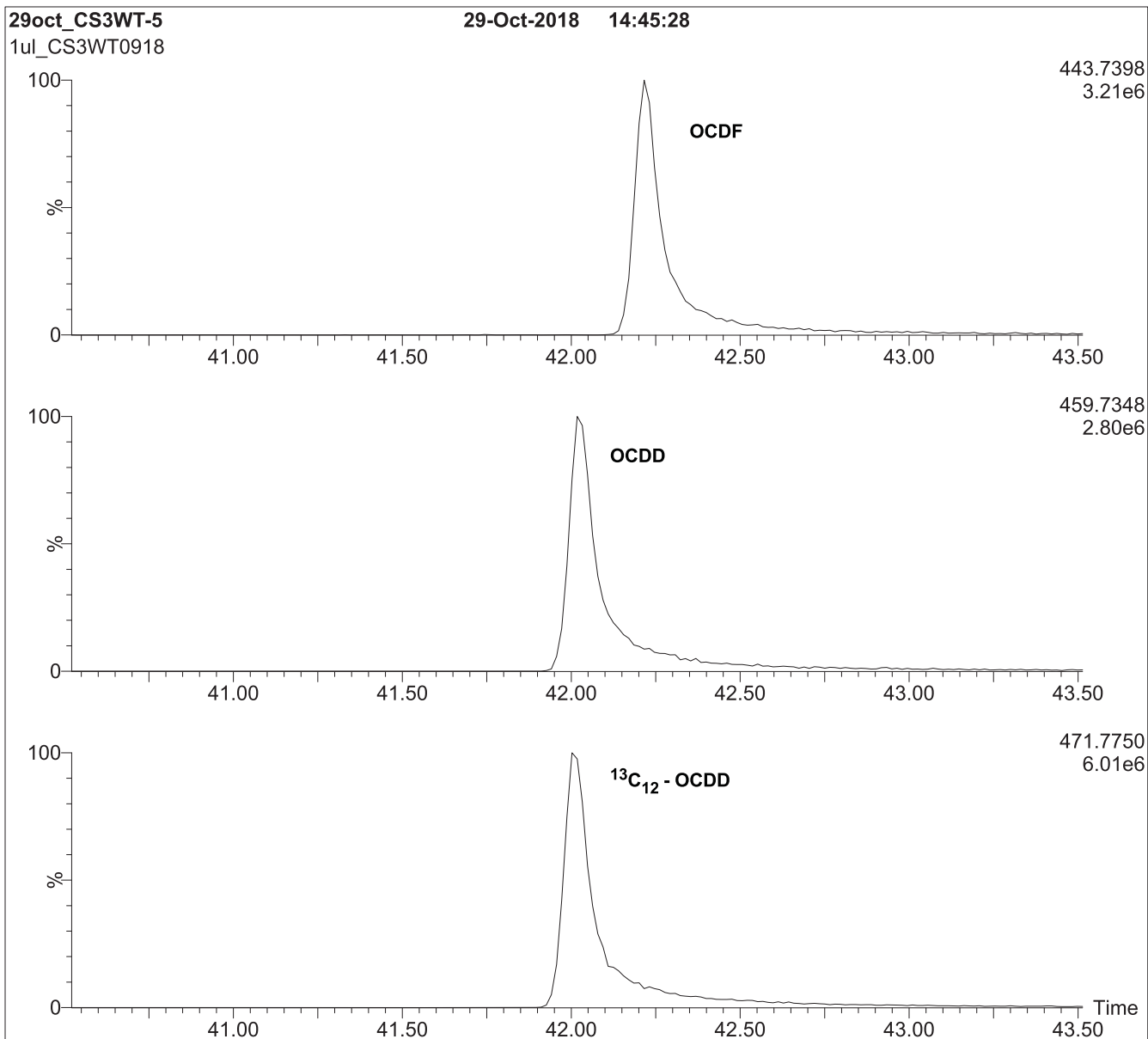
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**HRGC/HRMS:**

Agilent 6890N (HRGC)  
Autospec Ultima (HRMS)

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)  
12 °C/min to 200 °C  
3 °C/min to 235 °C  
235 °C (8 min)  
8 °C/min to 310 °C  
310 °C (8 min)





**EPA-1613CVS**

**U.S. EPA Method 1613 Calibration and Verification Solutions  
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5**

<b><u>PRODUCT CODES:</u></b>	EPA-1613CVS	<b><u>LOT NUMBERS:</u></b>	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

<b><u>SOLVENT(S):</u></b>	Nonane/Toluene
<b><u>DATE PREPARED:</u></b> (mm/dd/yyyy)	10/22/2019
<b><u>LAST TESTED:</u></b> (mm/dd/yyyy)	10/24/2019
<b><u>EXPIRY DATE:</u></b> (mm/dd/yyyy)	10/24/2026
<b><u>RECOMMENDED STORAGE:</u></b>	Store ampoules in a cool, dark place

<b>I005456</b>
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1613 CS1 CAL STD  
Expires 10/24/2026  
*Prepared By Joshua Rains 6/23/2020*

**DESCRIPTION:**

EPA-1613CVS is a series of 5 calibration solutions containing native (<sup>12</sup>C<sub>12</sub>) and mass-labelled (<sup>13</sup>C<sub>12</sub> and <sup>37</sup>Cl<sub>4</sub>) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual <sup>13</sup>C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-<sup>37</sup>Cl<sub>4</sub>-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (<sup>37</sup>Cl) purity of ≥95%.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
519-822-2436 • Fax: 519-822-2849 • [info@well-labs.com](mailto:info@well-labs.com)

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations

Table B: 5-point HRGC/HRMS Calibration and RRF Summary

Table C: 7-point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 3 for further details.

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
	CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
<b>Native PCDDs and PCDFs:</b>							
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
<b>Labelled PCDDs and PCDFs:</b>							
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -OCDD	200	200	200	200	200	200	200
<b>Cleanup Standard:</b>							
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
<b>Internal Standards:</b>							
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:   
B.G. Chittim, General Manager

Date: 10/25/2019  
(mm/dd/yyyy)

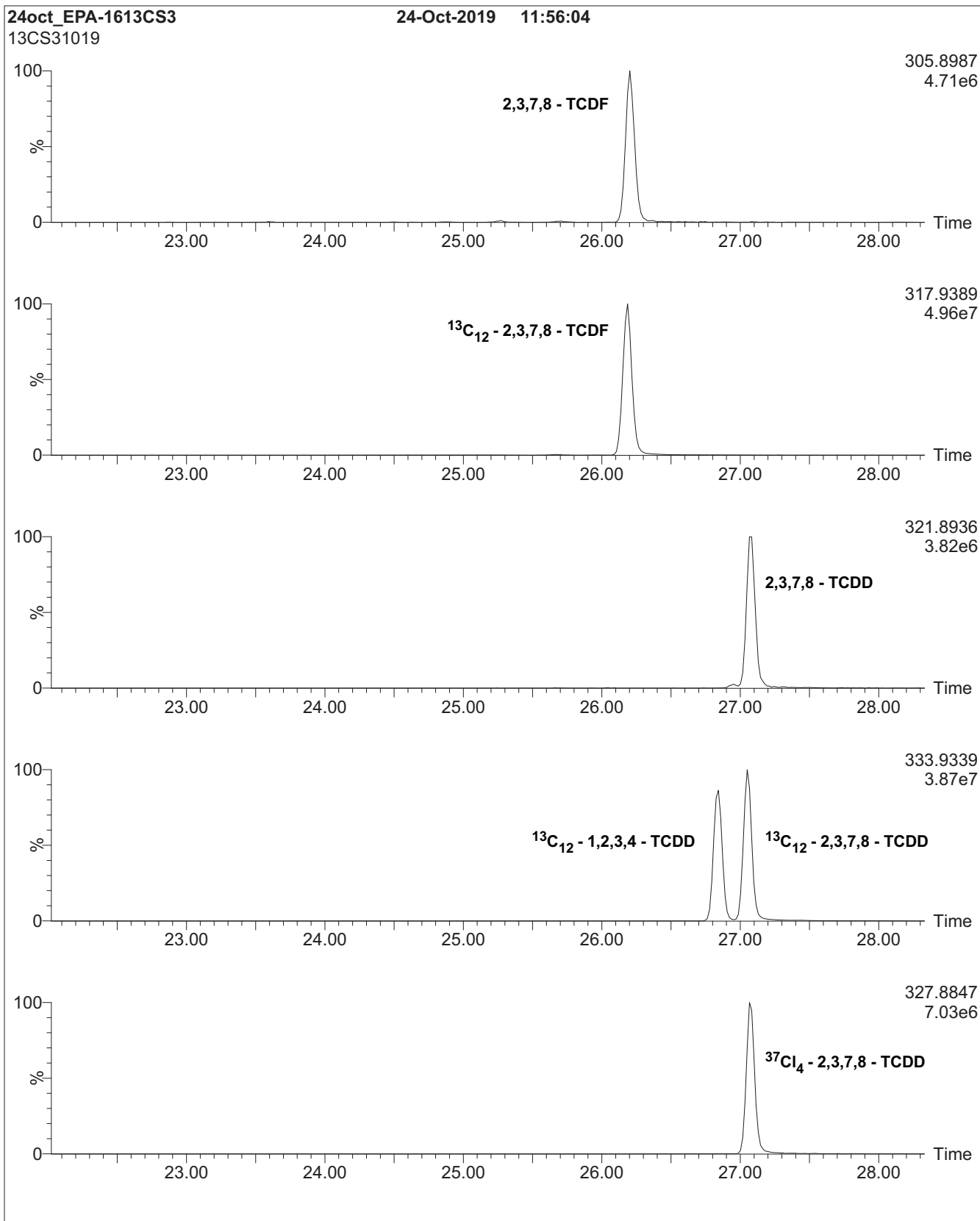
**Table B: EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

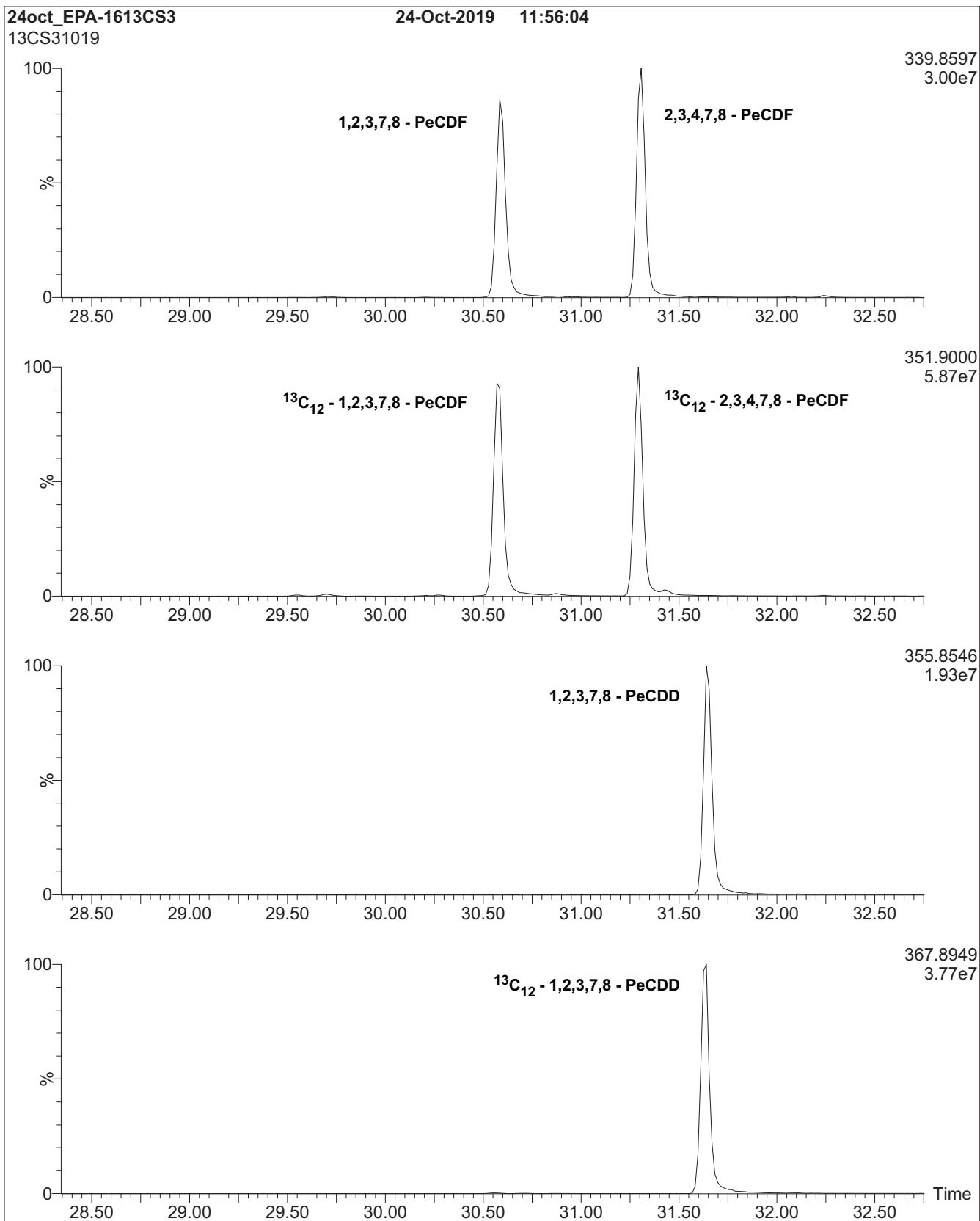
**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

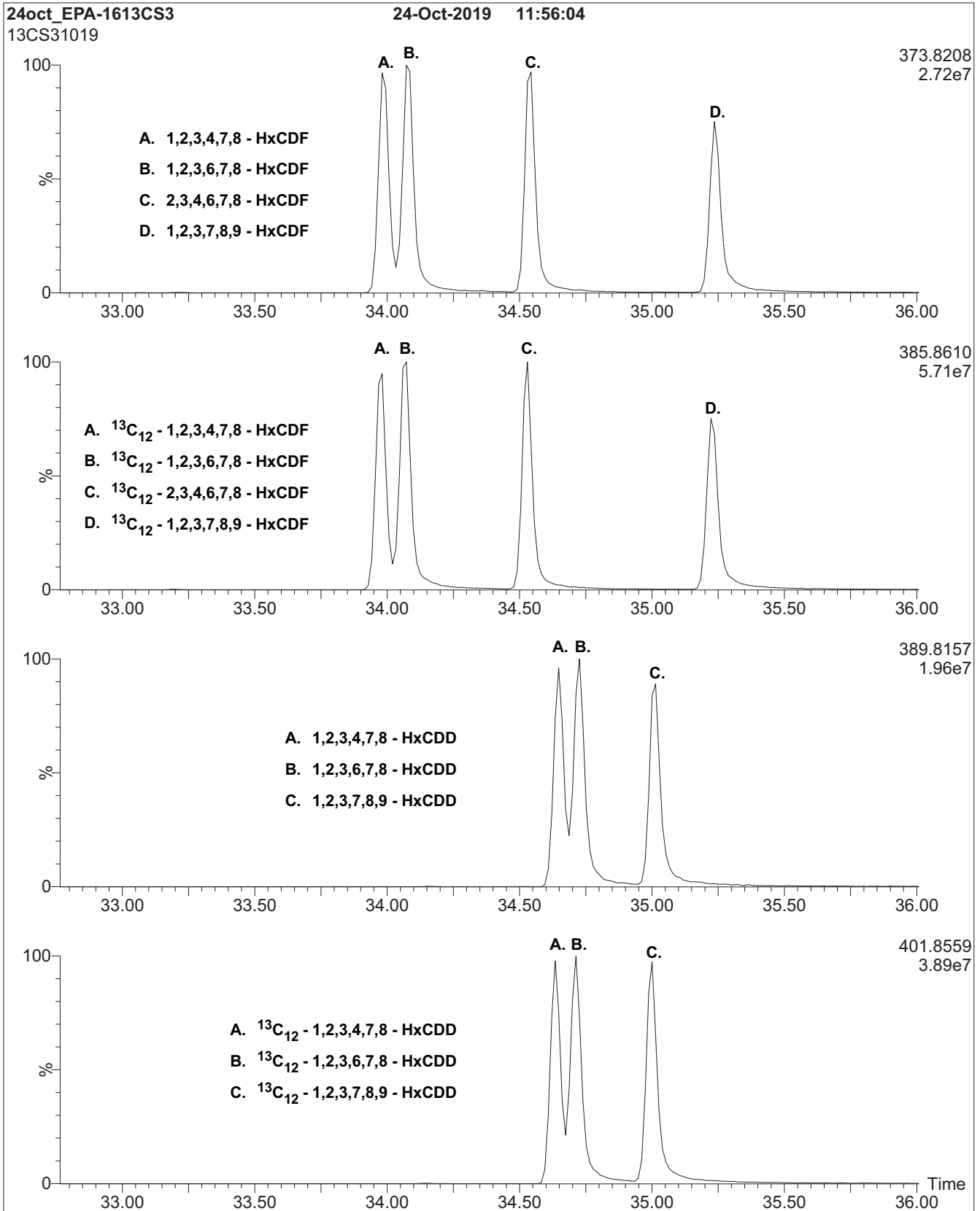


**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

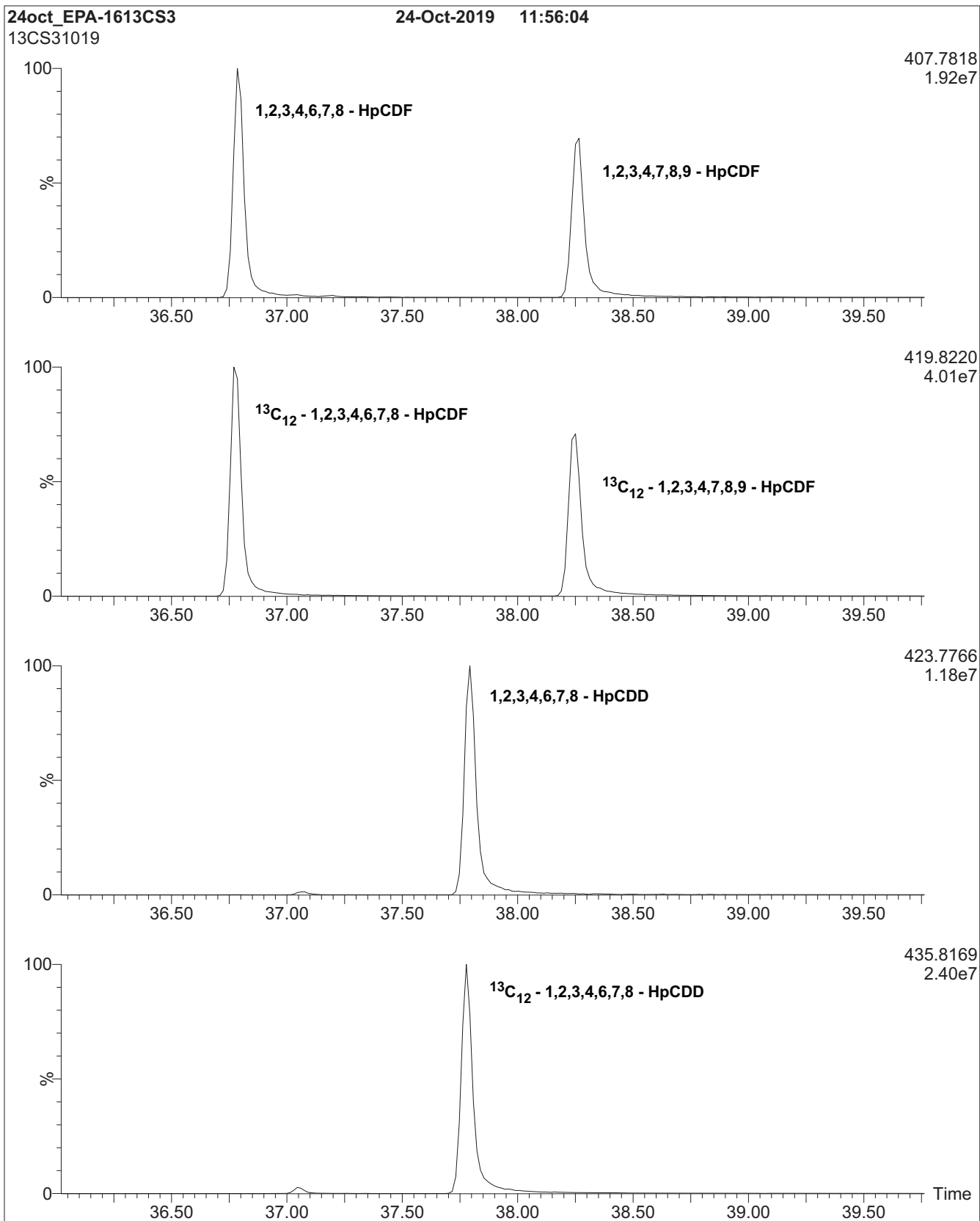




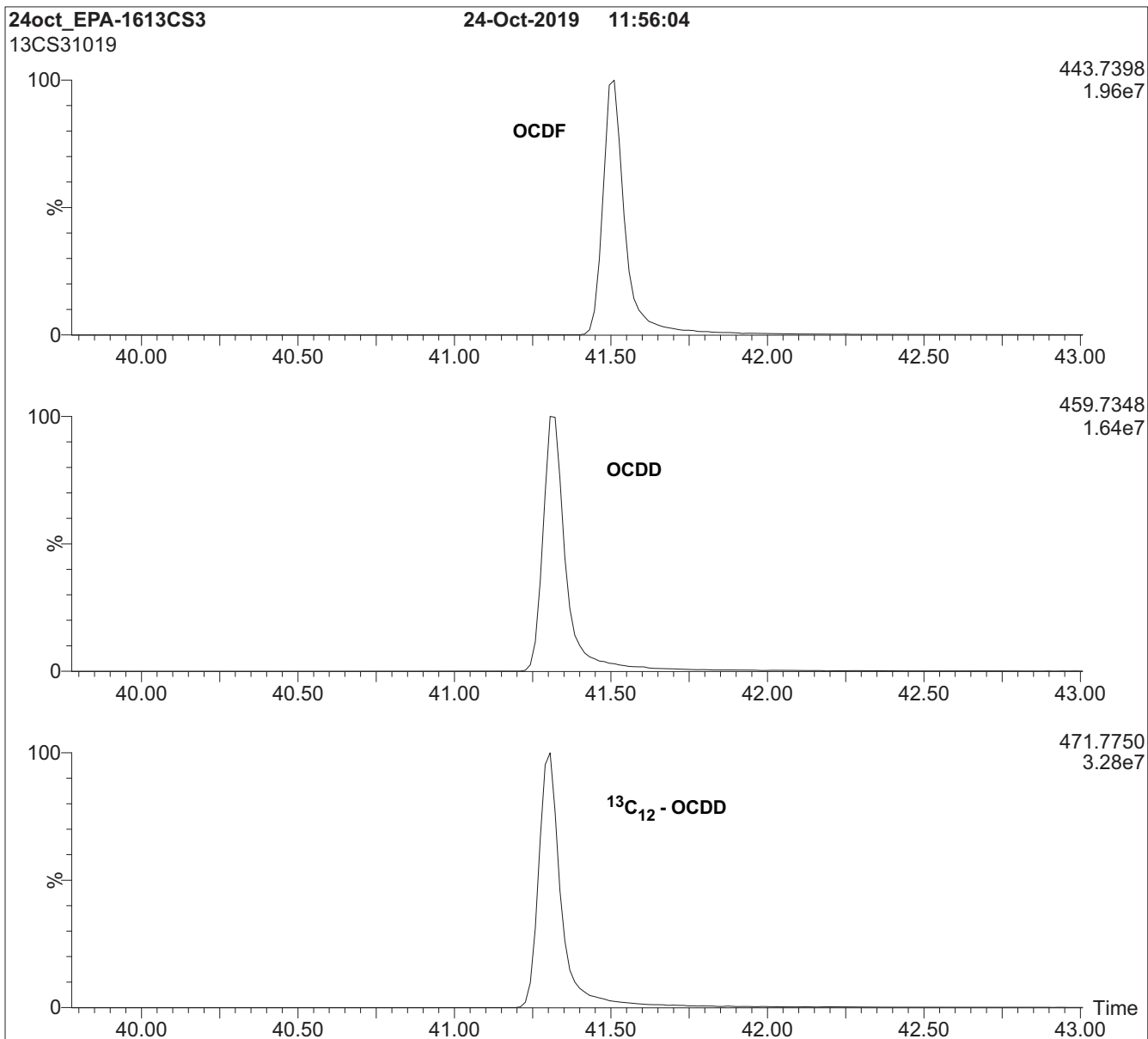
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**HRGC/HRMS:**

Agilent 6890N (HRGC)  
Autospec Ultima (HRMS)

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)

12 °C/min to 200 °C

3 °C/min to 235 °C

235 °C (8 min)

8 °C/min to 310 °C

310 °C (8 min)



**EPA-1613CVS**

**U.S. EPA Method 1613 Calibration and Verification Solutions  
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5**

<b><u>PRODUCT CODES:</u></b>	EPA-1613CVS	<b><u>LOT NUMBERS:</u></b>	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

<b><u>SOLVENT(S):</u></b>	Nonane/Toluene
<b><u>DATE PREPARED:</u></b> (mm/dd/yyyy)	10/22/2019
<b><u>LAST TESTED:</u></b> (mm/dd/yyyy)	10/24/2019
<b><u>EXPIRY DATE:</u></b> (mm/dd/yyyy)	10/24/2026
<b><u>RECOMMENDED STORAGE:</u></b>	Store ampoules in a cool, dark place

<b>1005457</b>
1613 CS2 CAL STD
Expires 10/24/2026
<i>Prepared By Joshua Rains 6/23/2020</i>

**DESCRIPTION:**

EPA-1613CVS is a series of 5 calibration solutions containing native (<sup>12</sup>C<sub>12</sub>) and mass-labelled (<sup>13</sup>C<sub>12</sub> and <sup>37</sup>Cl<sub>4</sub>) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual <sup>13</sup>C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-<sup>37</sup>Cl<sub>4</sub>-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (<sup>37</sup>Cl) purity of ≥95%.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
519-822-2436 • Fax: 519-822-2849 • [info@well-labs.com](mailto:info@well-labs.com)

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations

Table B: 5-point HRGC/HRMS Calibration and RRF Summary

Table C: 7-point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 3 for further details.

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
	CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
<b>Native PCDDs and PCDFs:</b>							
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
<b>Labelled PCDDs and PCDFs:</b>							
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -OCDD	200	200	200	200	200	200	200
<b>Cleanup Standard:</b>							
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
<b>Internal Standards:</b>							
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:   
B.G. Chittim, General Manager

Date: 10/25/2019  
(mm/dd/yyyy)

**Table B: EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

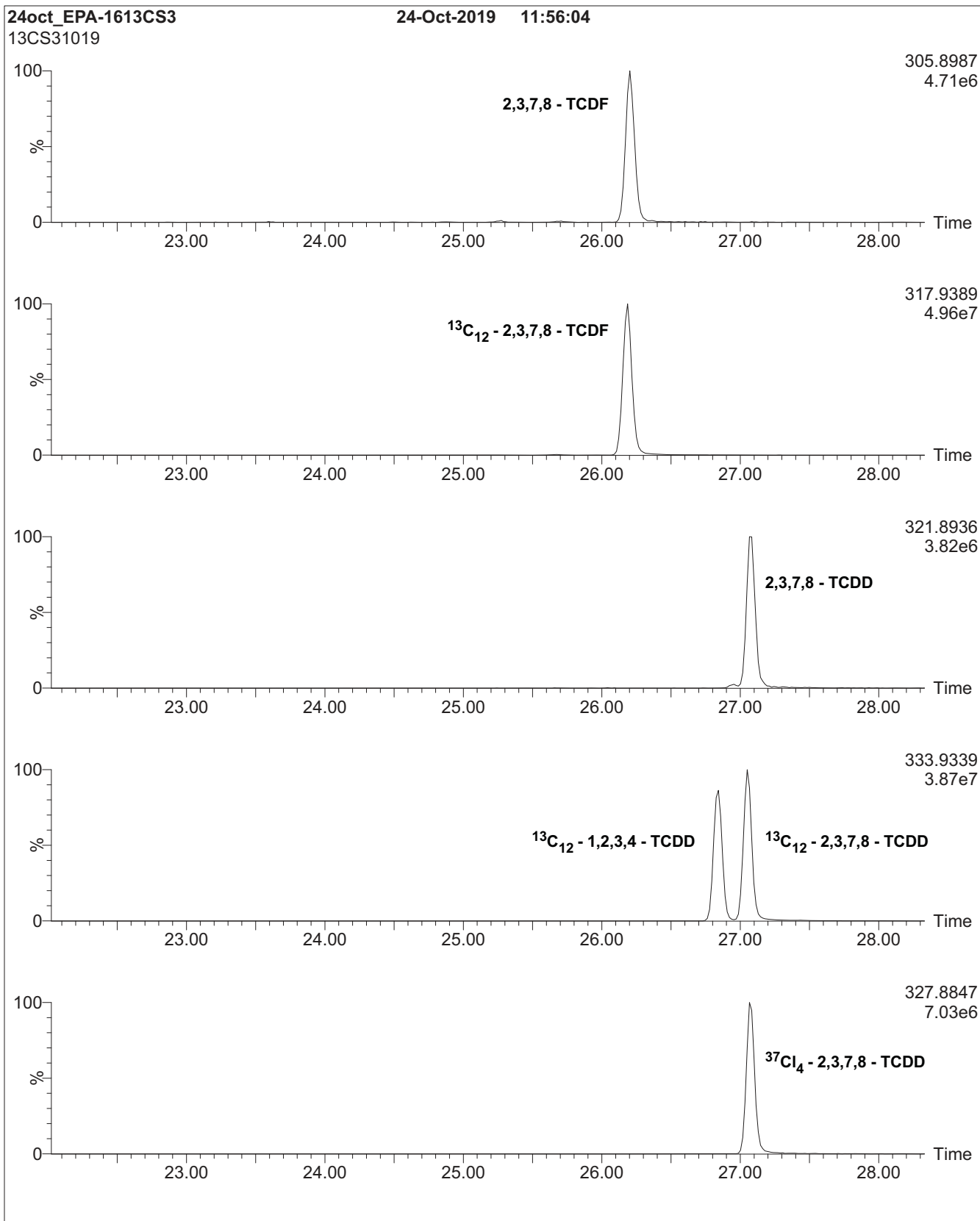
Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99



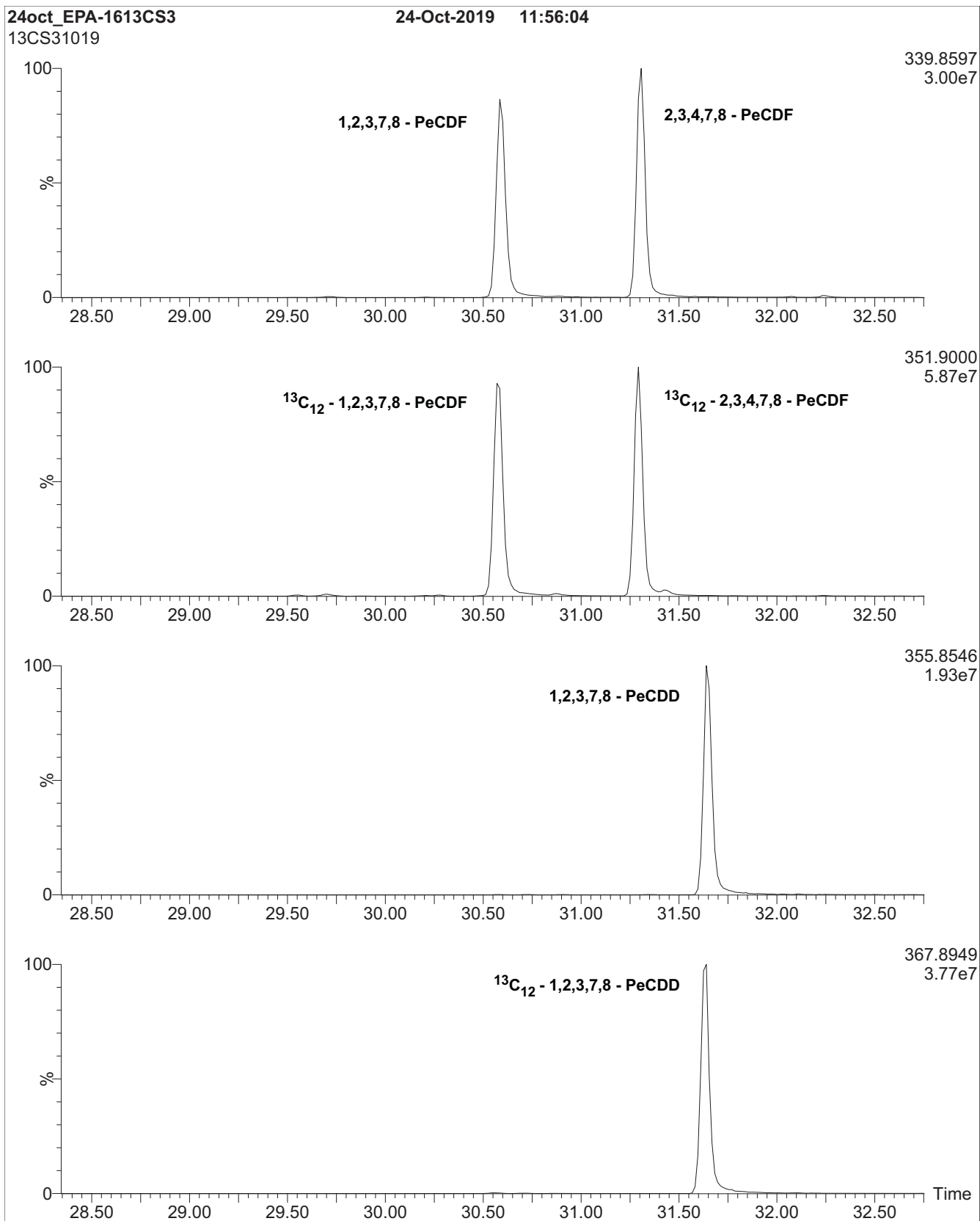
**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

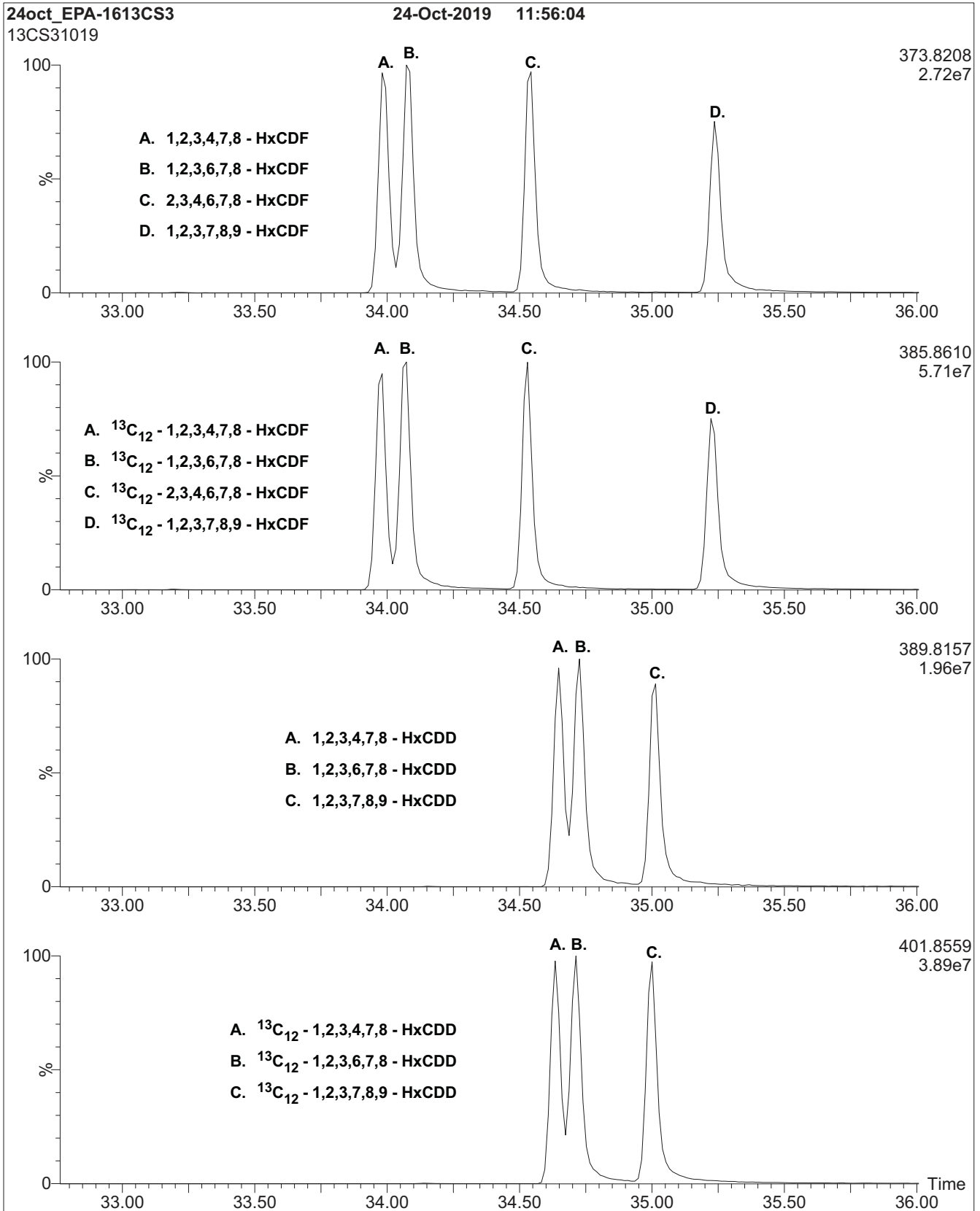
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



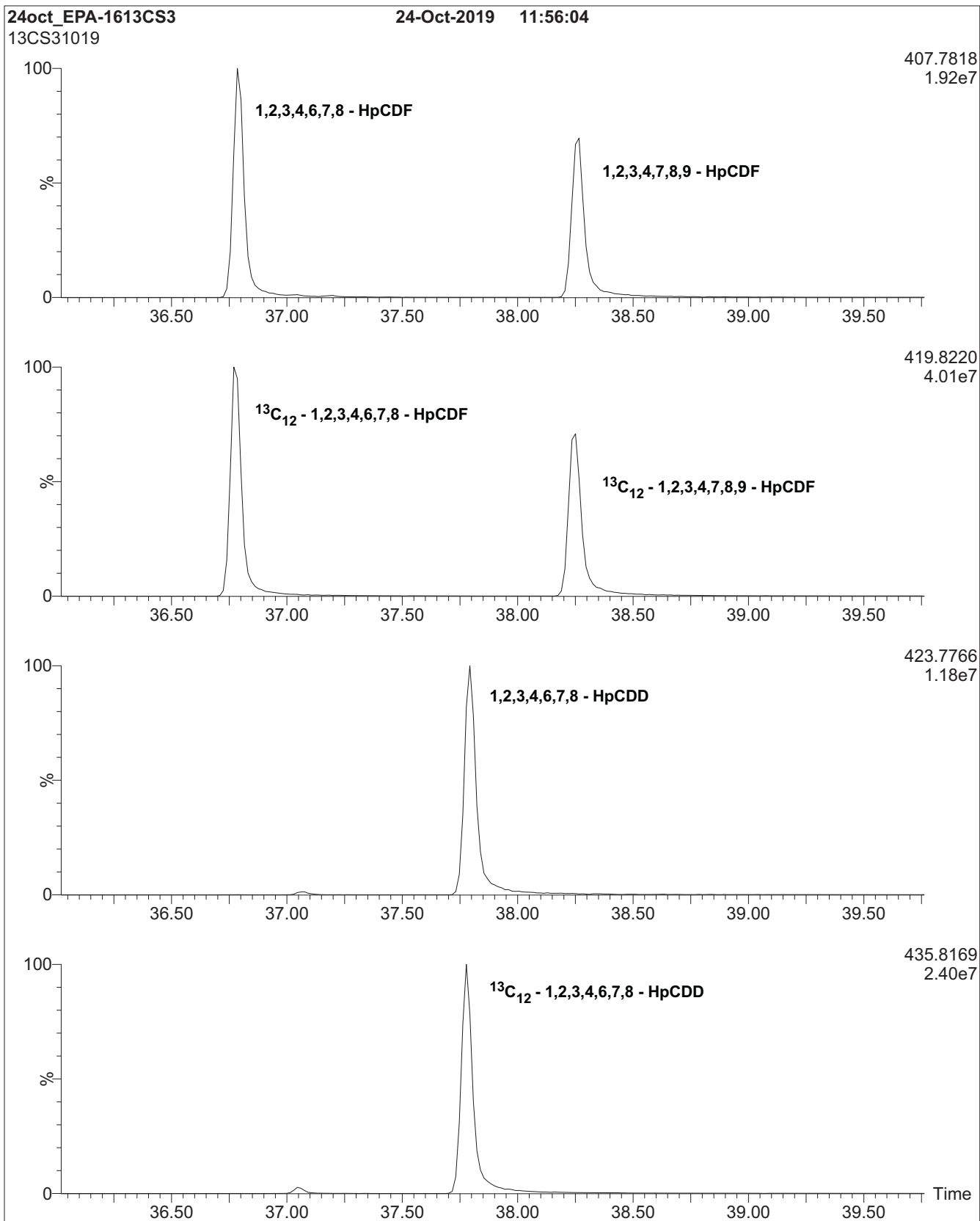
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



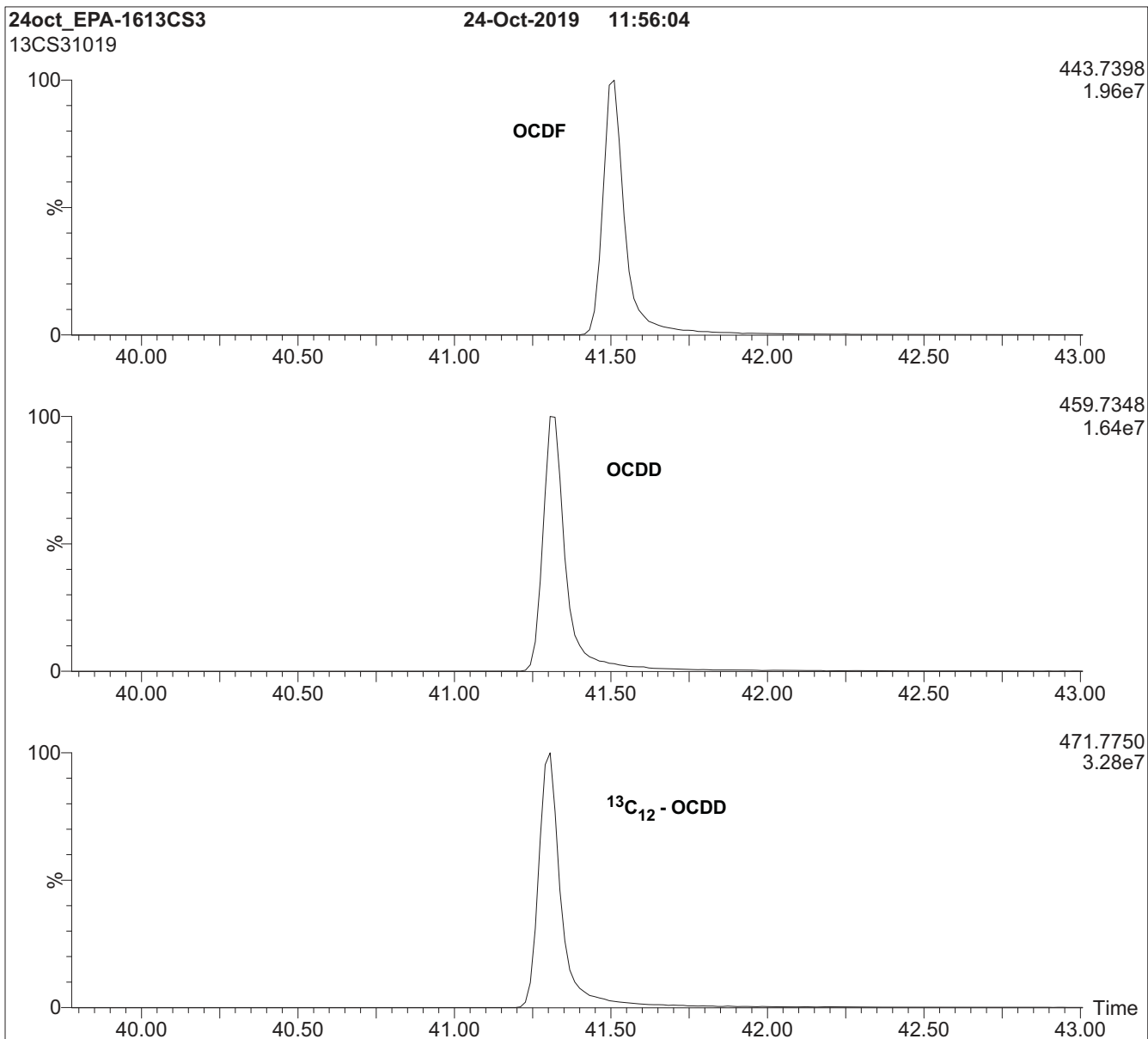
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**HRGC/HRMS:**

Agilent 6890N (HRGC)  
Autospec Ultima (HRMS)

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)

12 °C/min to 200 °C

3 °C/min to 235 °C

235 °C (8 min)

8 °C/min to 310 °C

310 °C (8 min)



**EPA-1613CVS**

**U.S. EPA Method 1613 Calibration and Verification Solutions  
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5**

<b><u>PRODUCT CODES:</u></b>	EPA-1613CVS	<b><u>LOT NUMBERS:</u></b>	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

<b><u>SOLVENT(S):</u></b>	Nonane/Toluene
<b><u>DATE PREPARED:</u></b> (mm/dd/yyyy)	10/22/2019
<b><u>LAST TESTED:</u></b> (mm/dd/yyyy)	10/24/2019
<b><u>EXPIRY DATE:</u></b> (mm/dd/yyyy)	10/24/2026
<b><u>RECOMMENDED STORAGE:</u></b>	Store ampoules in a cool, dark place

<b>1005458</b>
1613 CS4 CAL STD
Expires 10/24/2026
<i>Prepared By Joshua Rains 6/23/2020</i>

**DESCRIPTION:**

EPA-1613CVS is a series of 5 calibration solutions containing native (<sup>12</sup>C<sub>12</sub>) and mass-labelled (<sup>13</sup>C<sub>12</sub> and <sup>37</sup>Cl<sub>4</sub>) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual <sup>13</sup>C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-<sup>37</sup>Cl<sub>4</sub>-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (<sup>37</sup>Cl) purity of ≥95%.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations

Table B: 5-point HRGC/HRMS Calibration and RRF Summary

Table C: 7-point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 3 for further details.



### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
	CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
<b>Native PCDDs and PCDFs:</b>							
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
<b>Labelled PCDDs and PCDFs:</b>							
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -OCDD	200	200	200	200	200	200	200
<b>Cleanup Standard:</b>							
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
<b>Internal Standards:</b>							
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:   
B.G. Chittim, General Manager

Date: 10/25/2019  
(mm/dd/yyyy)

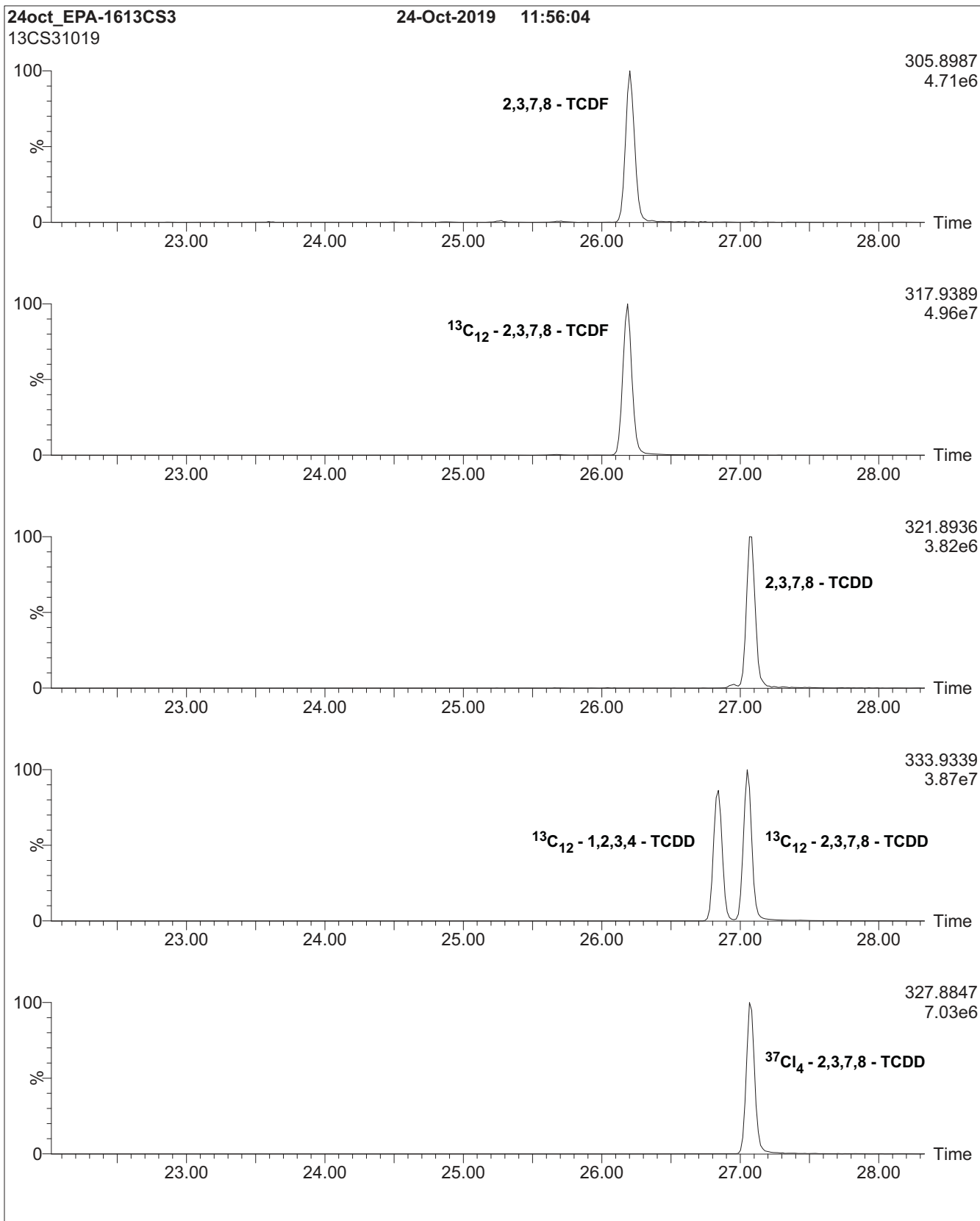
**Table B: EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

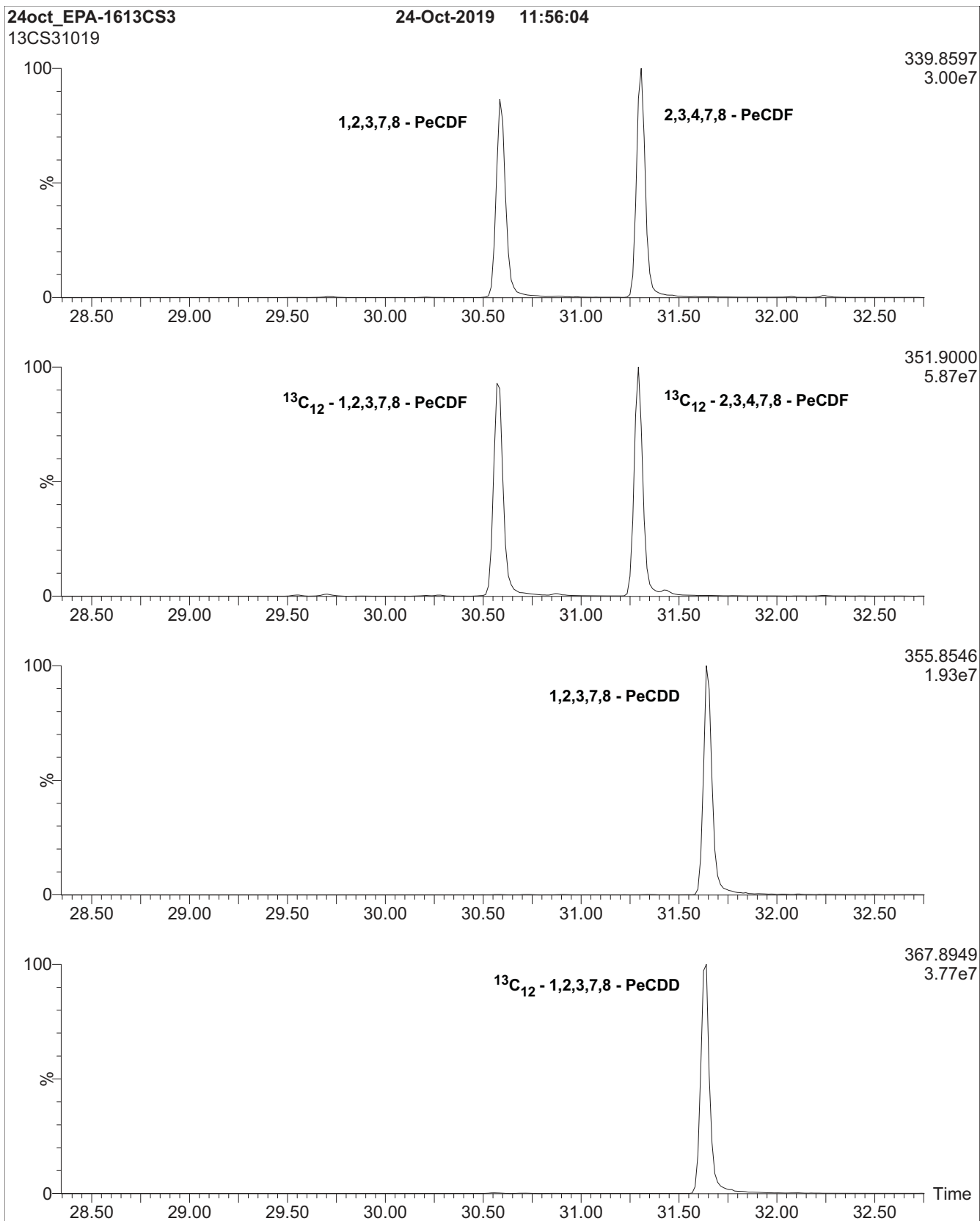
**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

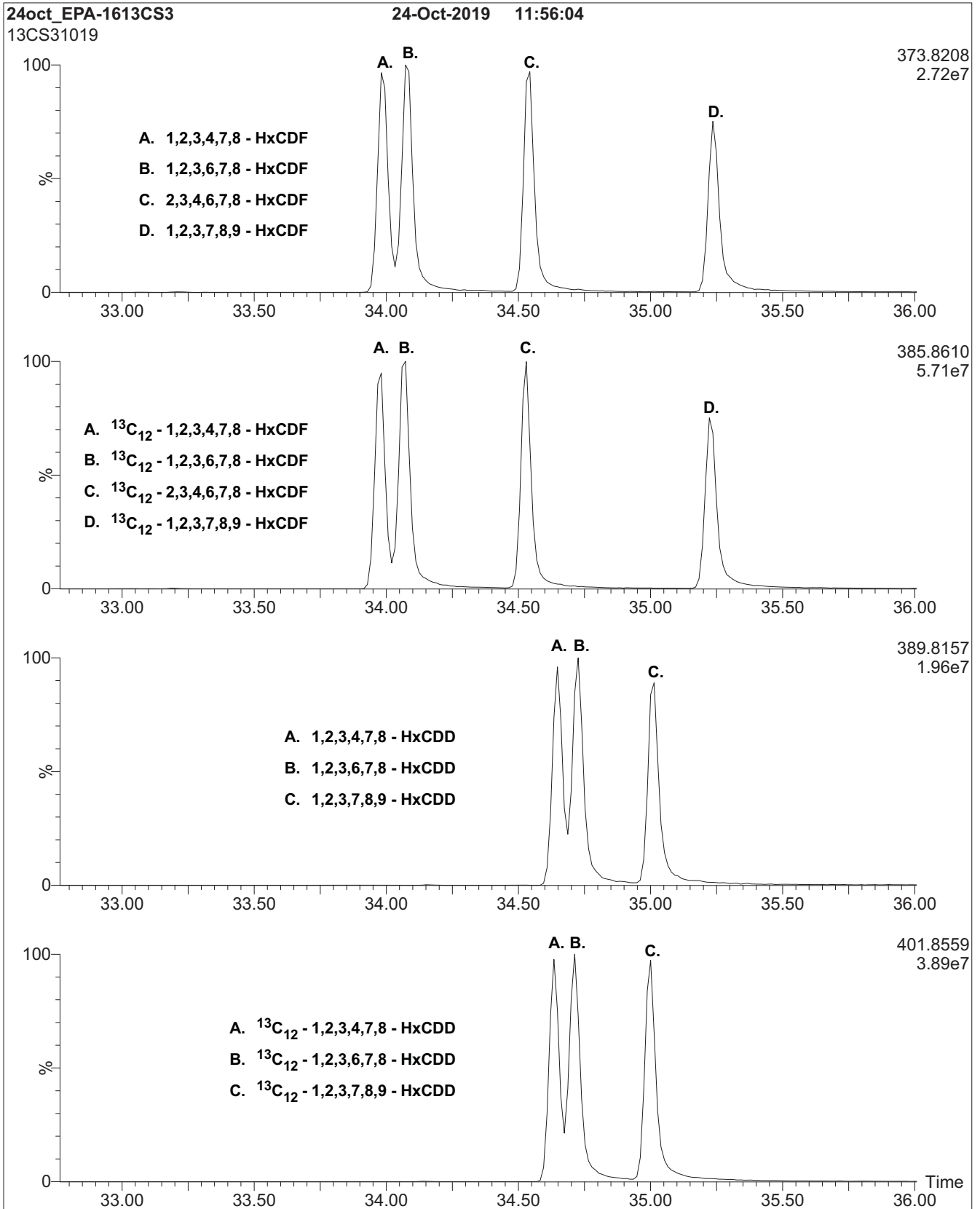
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



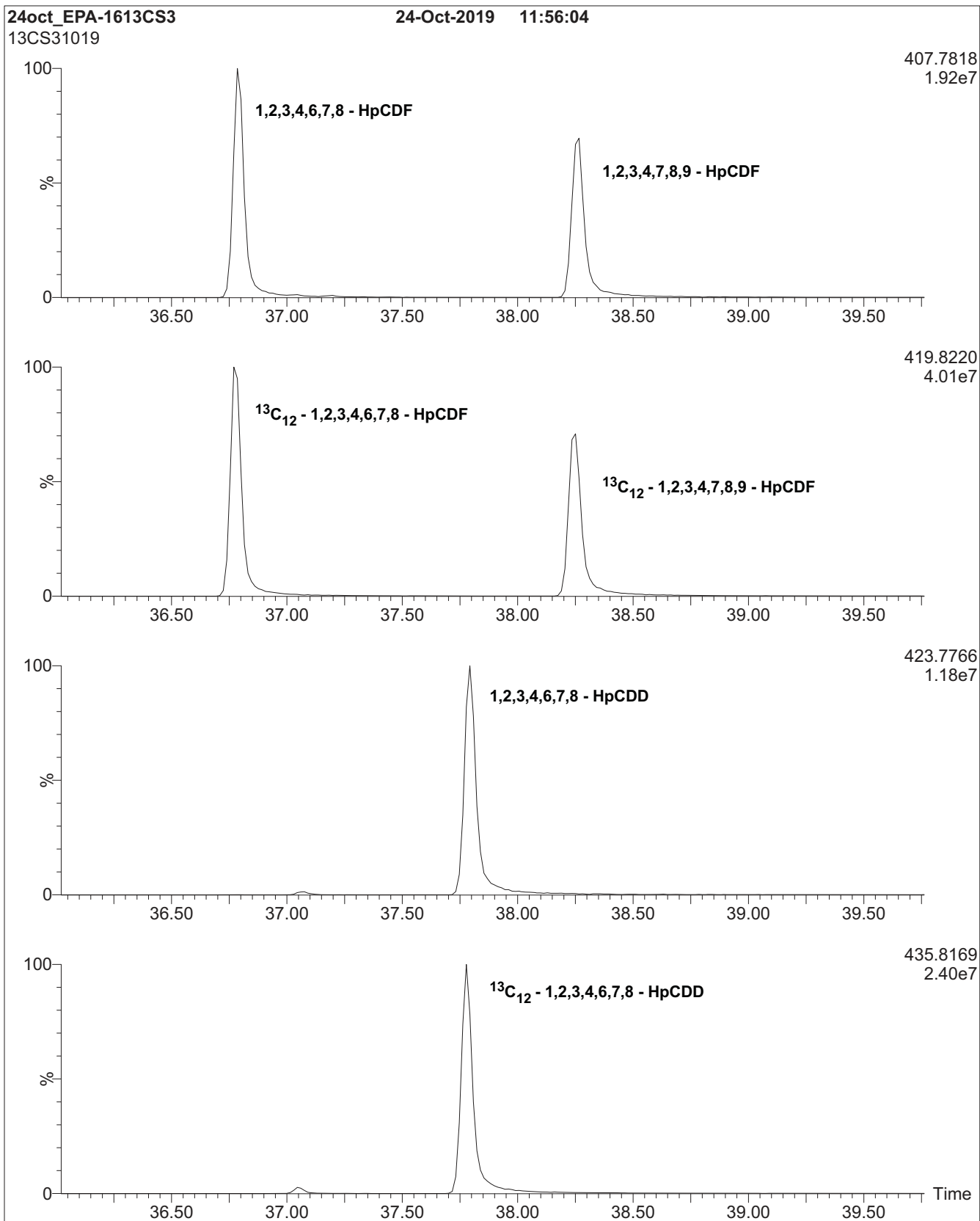
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

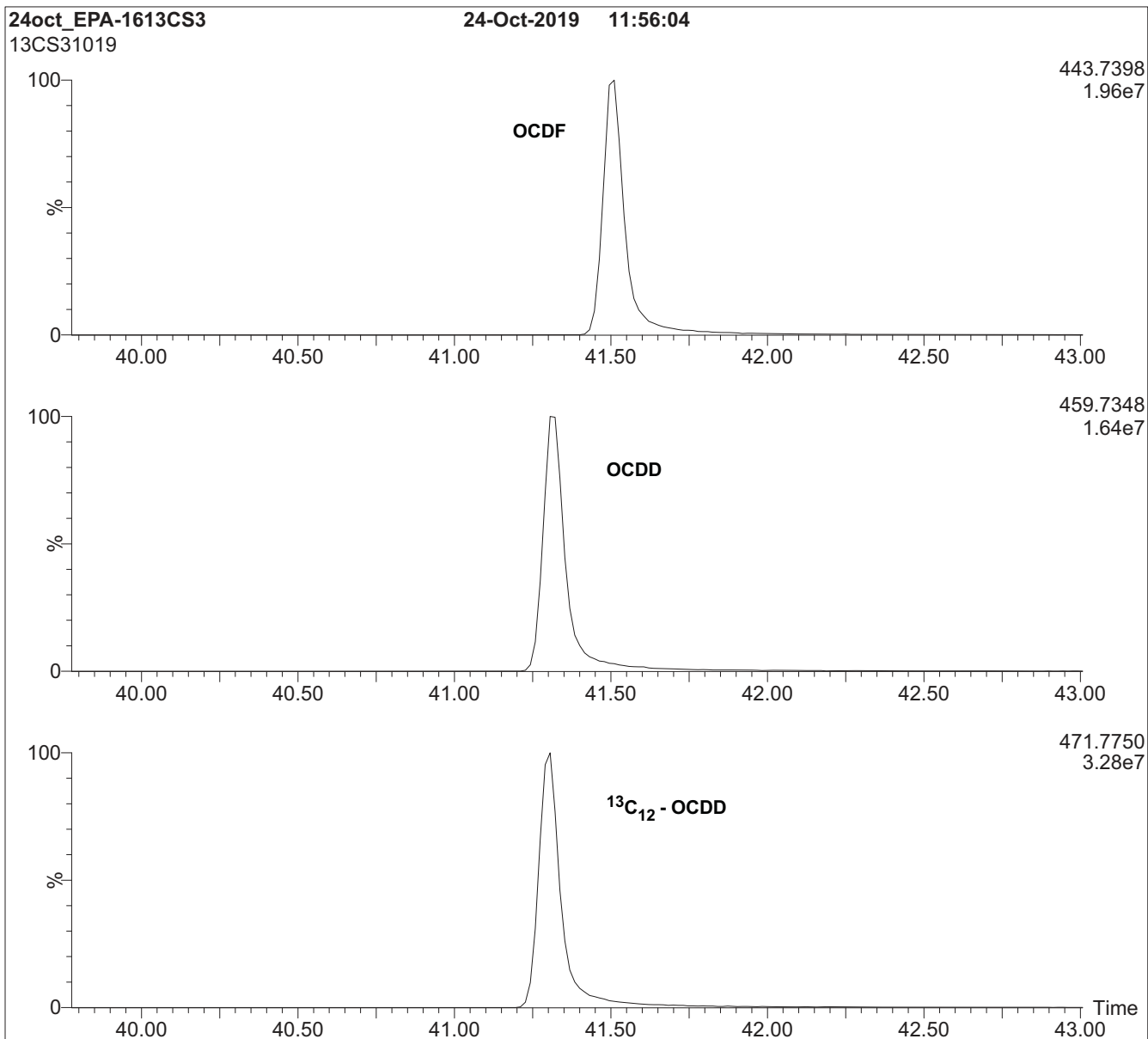


**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**





**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**HRGC/HRMS:**

Agilent 6890N (HRGC)  
Autospec Ultima (HRMS)

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)

12 °C/min to 200 °C

3 °C/min to 235 °C

235 °C (8 min)

8 °C/min to 310 °C

310 °C (8 min)



**EPA-1613CVS**

**U.S. EPA Method 1613 Calibration and Verification Solutions  
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5**

<b>PRODUCT CODES:</b>	EPA-1613CVS	<b>LOT NUMBERS:</b>	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

**Note:** EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

<b>SOLVENT(S):</b>	Nonane/Toluene
<b>DATE PREPARED:</b> (mm/dd/yyyy)	10/22/2019
<b>LAST TESTED:</b> (mm/dd/yyyy)	10/24/2019
<b>EXPIRY DATE:</b> (mm/dd/yyyy)	10/24/2026
<b>RECOMMENDED STORAGE:</b>	Store ampoules in a cool, dark place

<b>I005459</b>
1613 CS5 CAL STD
Expires 10/24/2026
<i>Prepared By Joshua Rains 6/23/2020</i>

**DESCRIPTION:**

EPA-1613CVS is a series of 5 calibration solutions containing native (<sup>12</sup>C<sub>12</sub>) and mass-labelled (<sup>13</sup>C<sub>12</sub> and <sup>37</sup>Cl<sub>4</sub>) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual <sup>13</sup>C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-<sup>37</sup>Cl<sub>4</sub>-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (<sup>37</sup>Cl) purity of ≥95%.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com**

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations

Table B: 5-point HRGC/HRMS Calibration and RRF Summary

Table C: 7-point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 3 for further details.

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
	CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
<b>Native PCDDs and PCDFs:</b>							
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
<b>Labelled PCDDs and PCDFs:</b>							
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -OCDD	200	200	200	200	200	200	200
<b>Cleanup Standard:</b>							
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
<b>Internal Standards:</b>							
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:   
B.G. Chittim, General Manager

Date: 10/25/2019  
(mm/dd/yyyy)

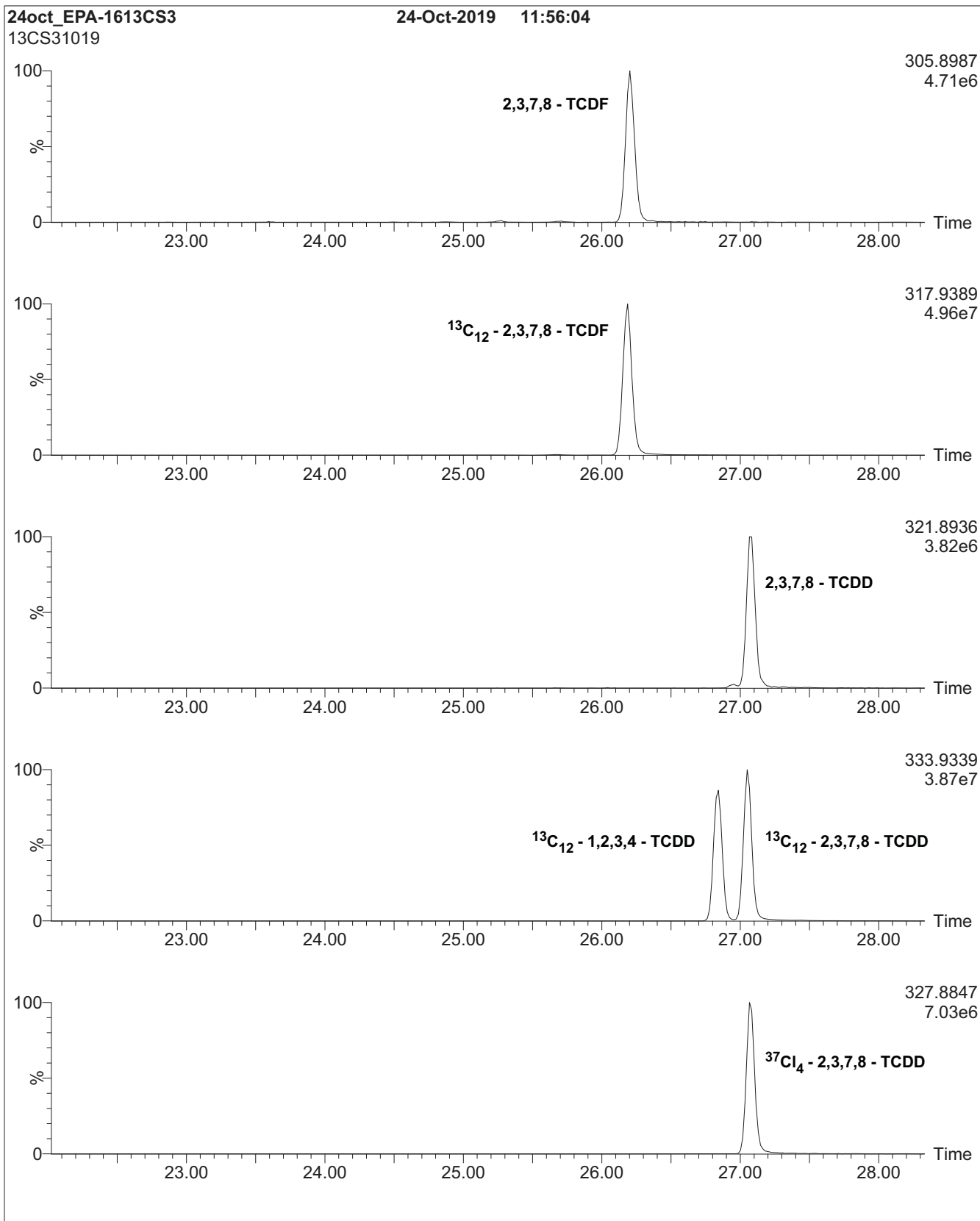
**Table B: EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
7-point HRGC/HRMS Calibration and RRF Summary**

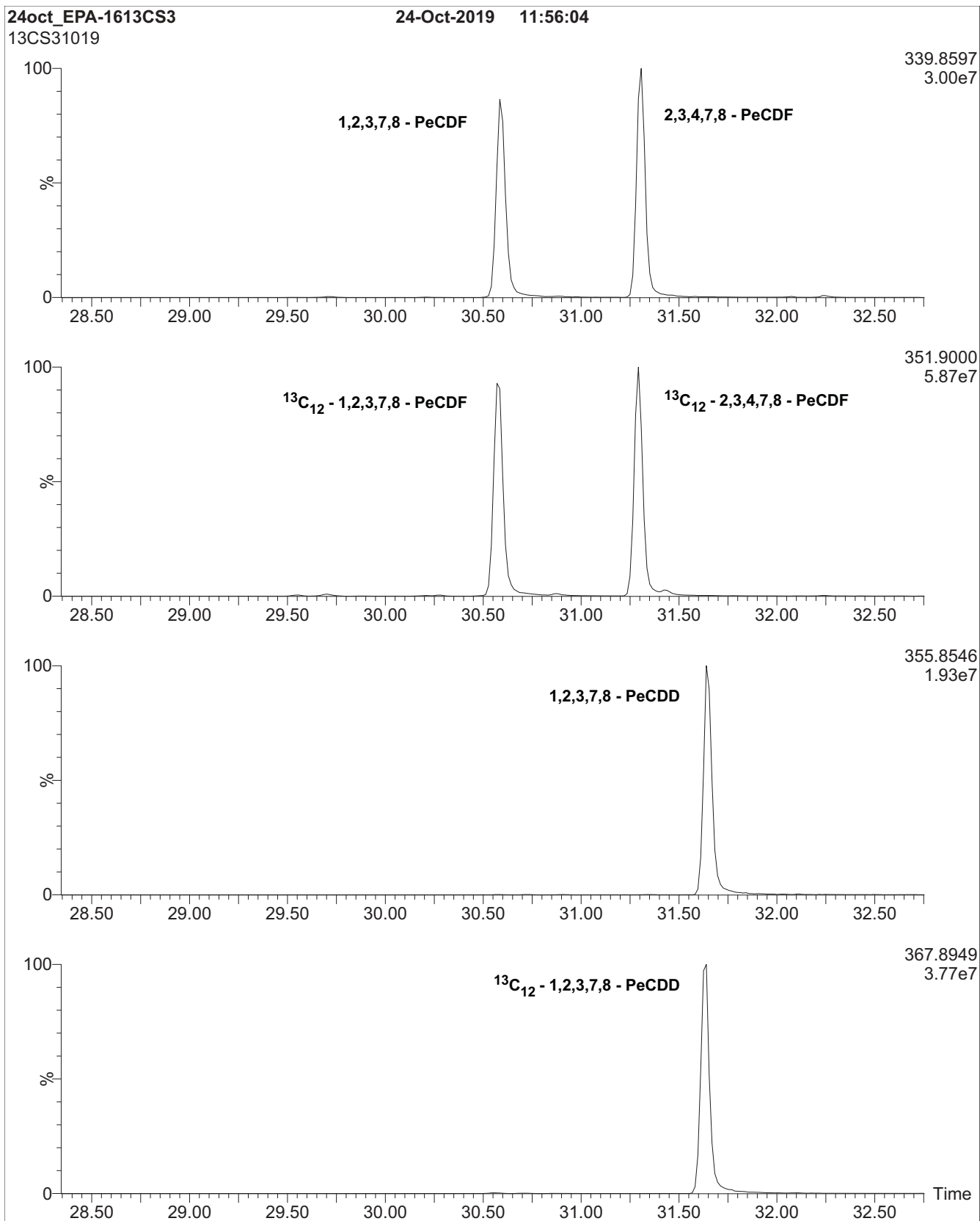
Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

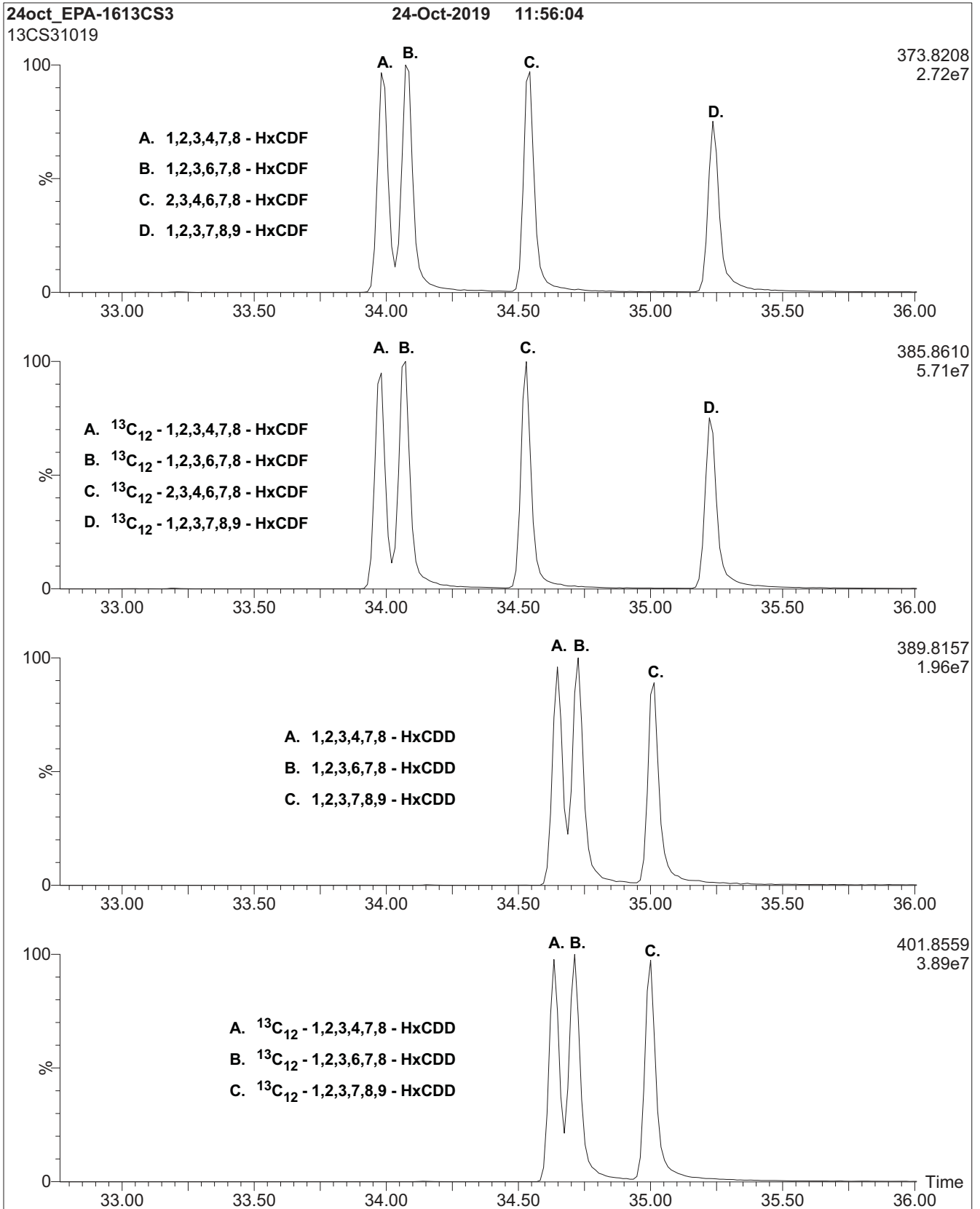




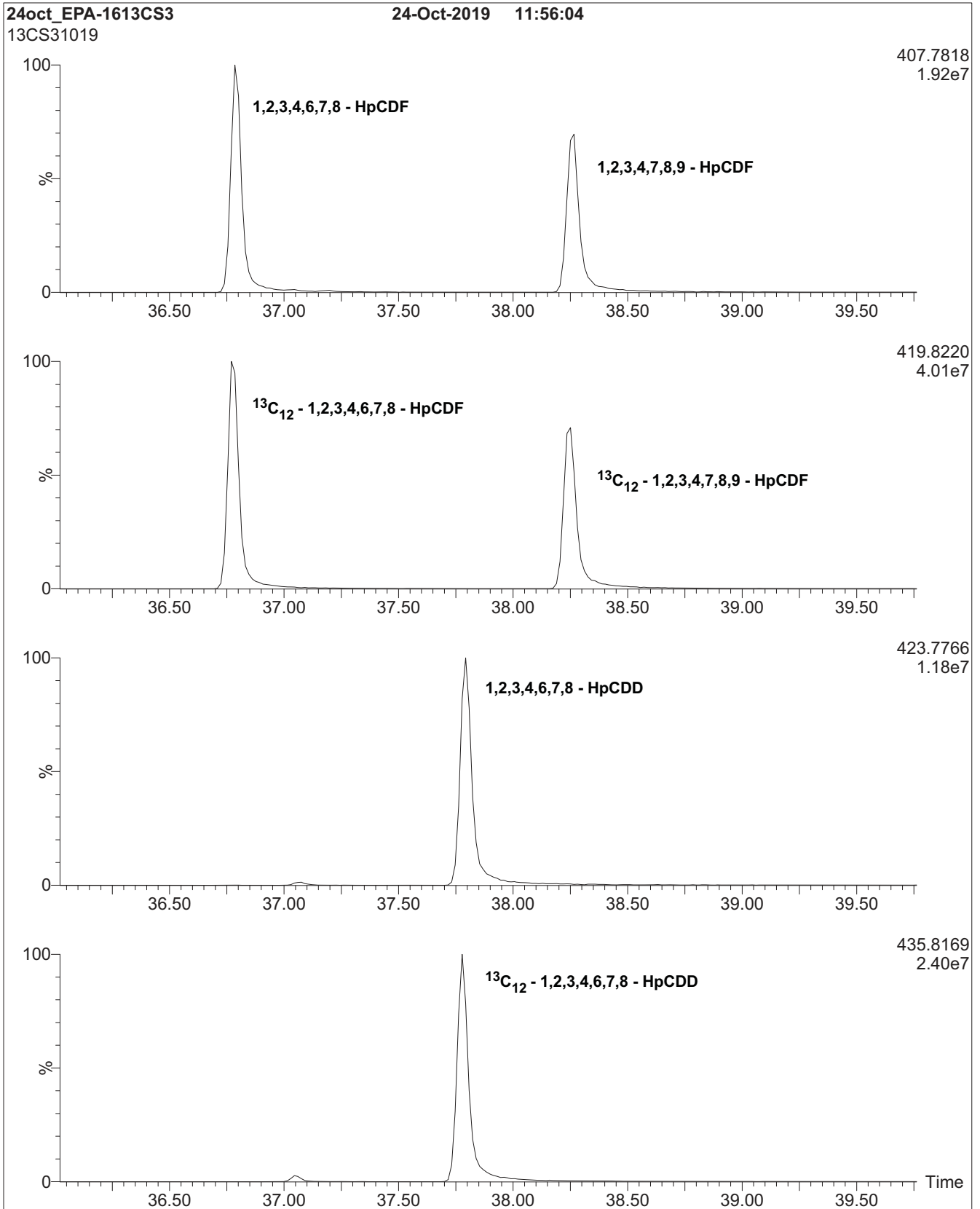
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



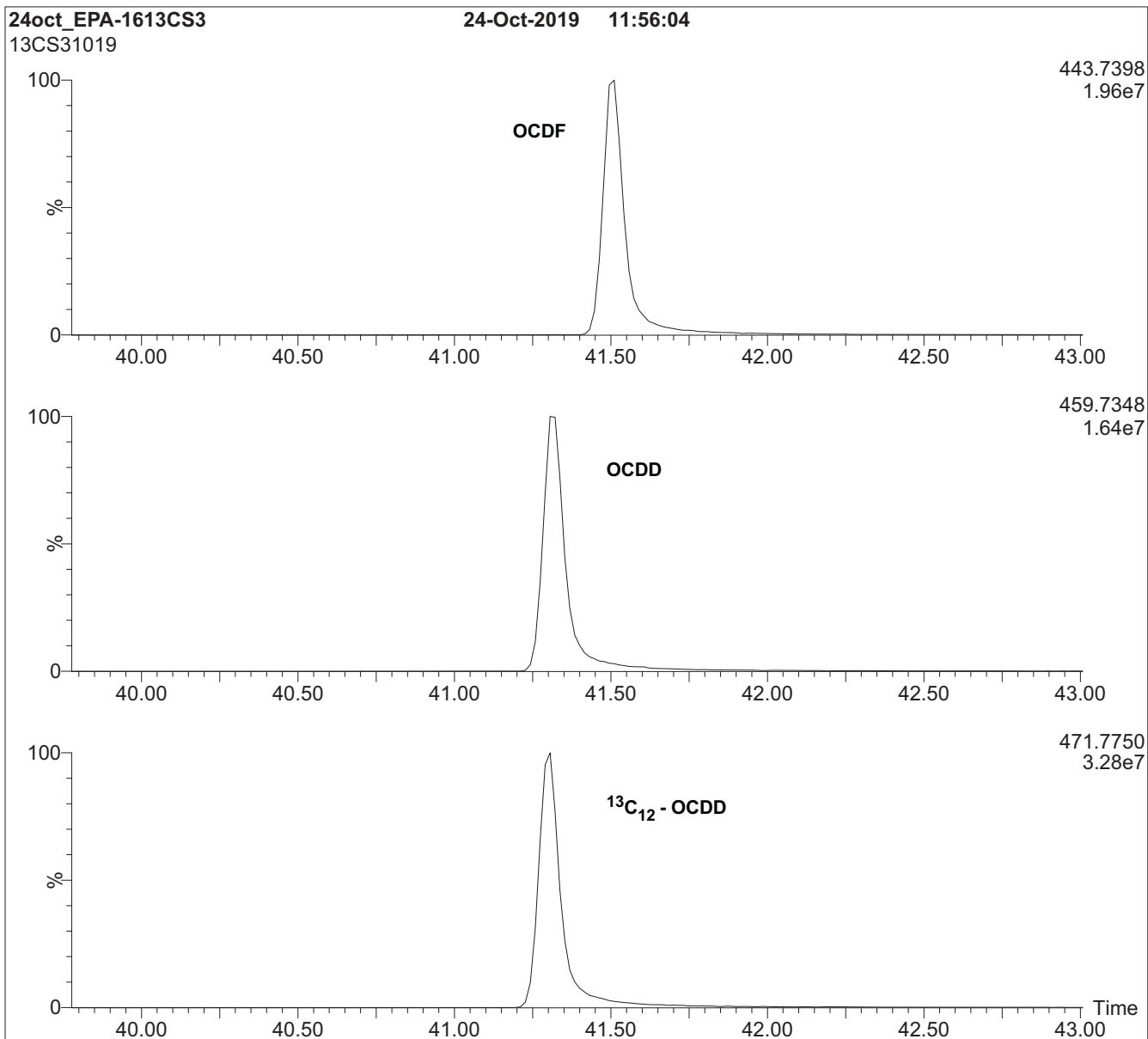
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**HRGC/HRMS:**

Agilent 6890N (HRGC)  
Autospec Ultima (HRMS)

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)

12 °C/min to 200 °C

3 °C/min to 235 °C

235 °C (8 min)

8 °C/min to 310 °C

310 °C (8 min)



**EPA-1613CVS**

**U.S. EPA Method 1613 Calibration and Verification Solutions  
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5**

<b><u>PRODUCT CODES:</u></b>	EPA-1613CVS	<b><u>LOT NUMBERS:</u></b>	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

<b><u>SOLVENT(S):</u></b>	Nonane/Toluene
<b><u>DATE PREPARED:</u></b> (mm/dd/yyyy)	10/22/2019
<b><u>LAST TESTED:</u></b> (mm/dd/yyyy)	10/24/2019
<b><u>EXPIRY DATE:</u></b> (mm/dd/yyyy)	10/24/2026
<b><u>RECOMMENDED STORAGE:</u></b>	Store ampoules in a cool, dark place

<b>I005460</b>
1613 CSL CAL STD
Expires 10/24/2026
<i>Prepared By Joshua Rains 6/23/2020</i>

**DESCRIPTION:**

EPA-1613CVS is a series of 5 calibration solutions containing native (<sup>12</sup>C<sub>12</sub>) and mass-labelled (<sup>13</sup>C<sub>12</sub> and <sup>37</sup>Cl<sub>4</sub>) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual <sup>13</sup>C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-<sup>37</sup>Cl<sub>4</sub>-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (<sup>37</sup>Cl) purity of ≥95%.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
519-822-2436 • Fax: 519-822-2849 • [info@well-labs.com](mailto:info@well-labs.com)

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations

Table B: 5-point HRGC/HRMS Calibration and RRF Summary

Table C: 7-point HRGC/HRMS Calibration and RRF Summary

Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 3 for further details.

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
	CS1	CS2	CS3	CS4	CS5	CSL	CS0.5
<b>Native PCDDs and PCDFs:</b>							
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
<b>Labelled PCDDs and PCDFs:</b>							
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -OCDD	200	200	200	200	200	200	200
<b>Cleanup Standard:</b>							
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
<b>Internal Standards:</b>							
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	100	100	100	100	100	100	100
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:   
B.G. Chittim, General Manager

Date: 10/25/2019  
(mm/dd/yyyy)



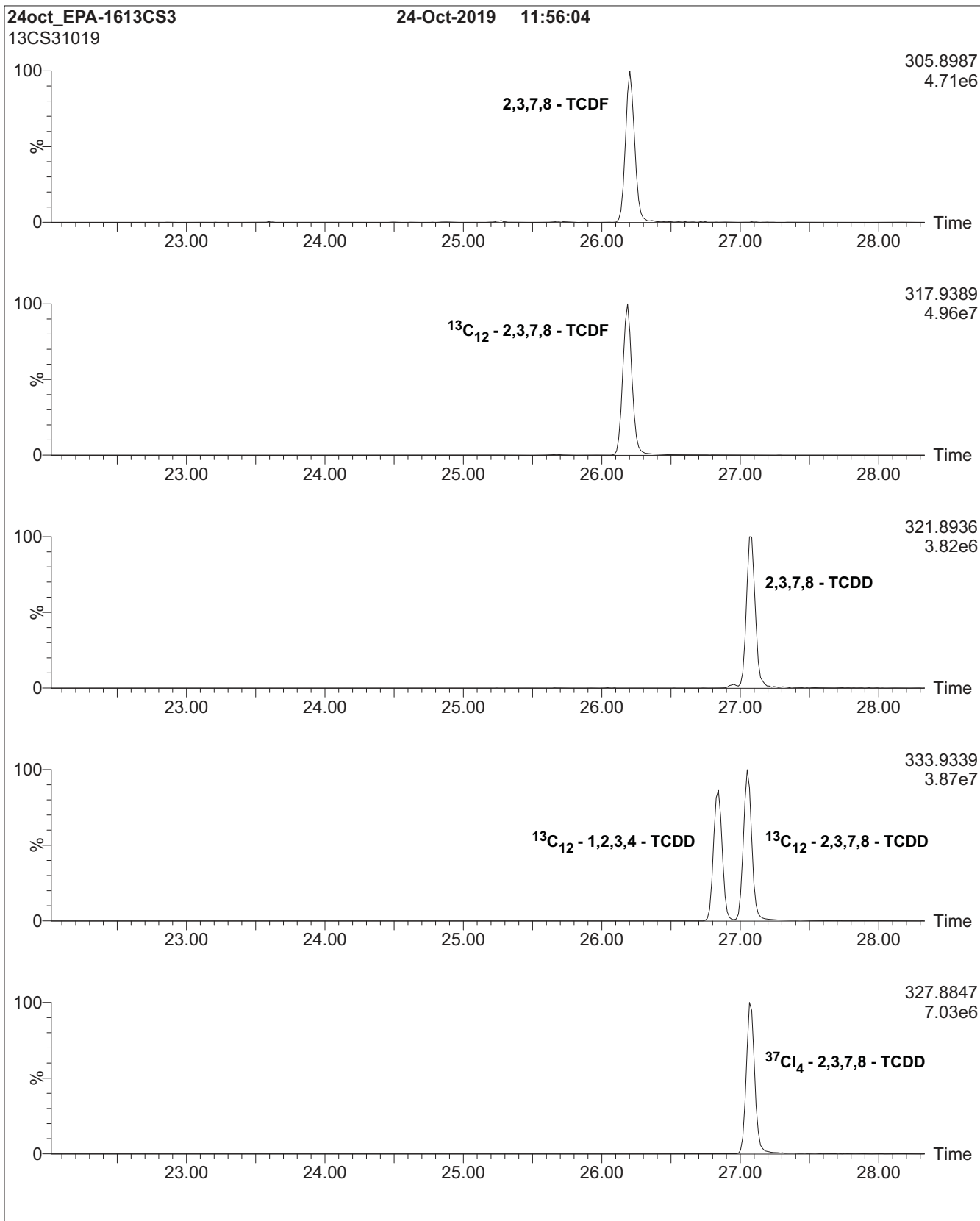
**Table B: EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

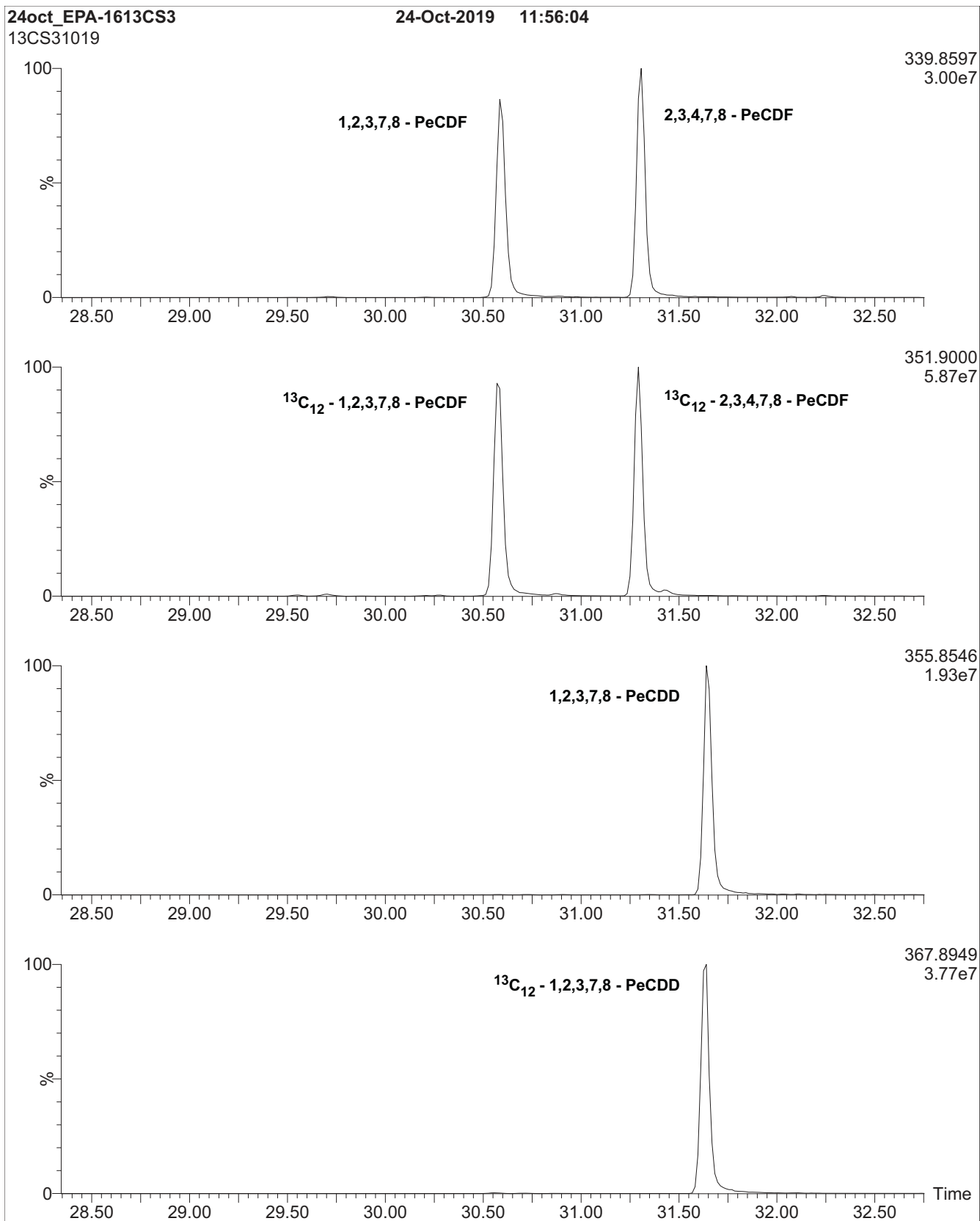
**Table C: EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5);  
7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
<sup>13</sup> C <sub>12</sub> -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

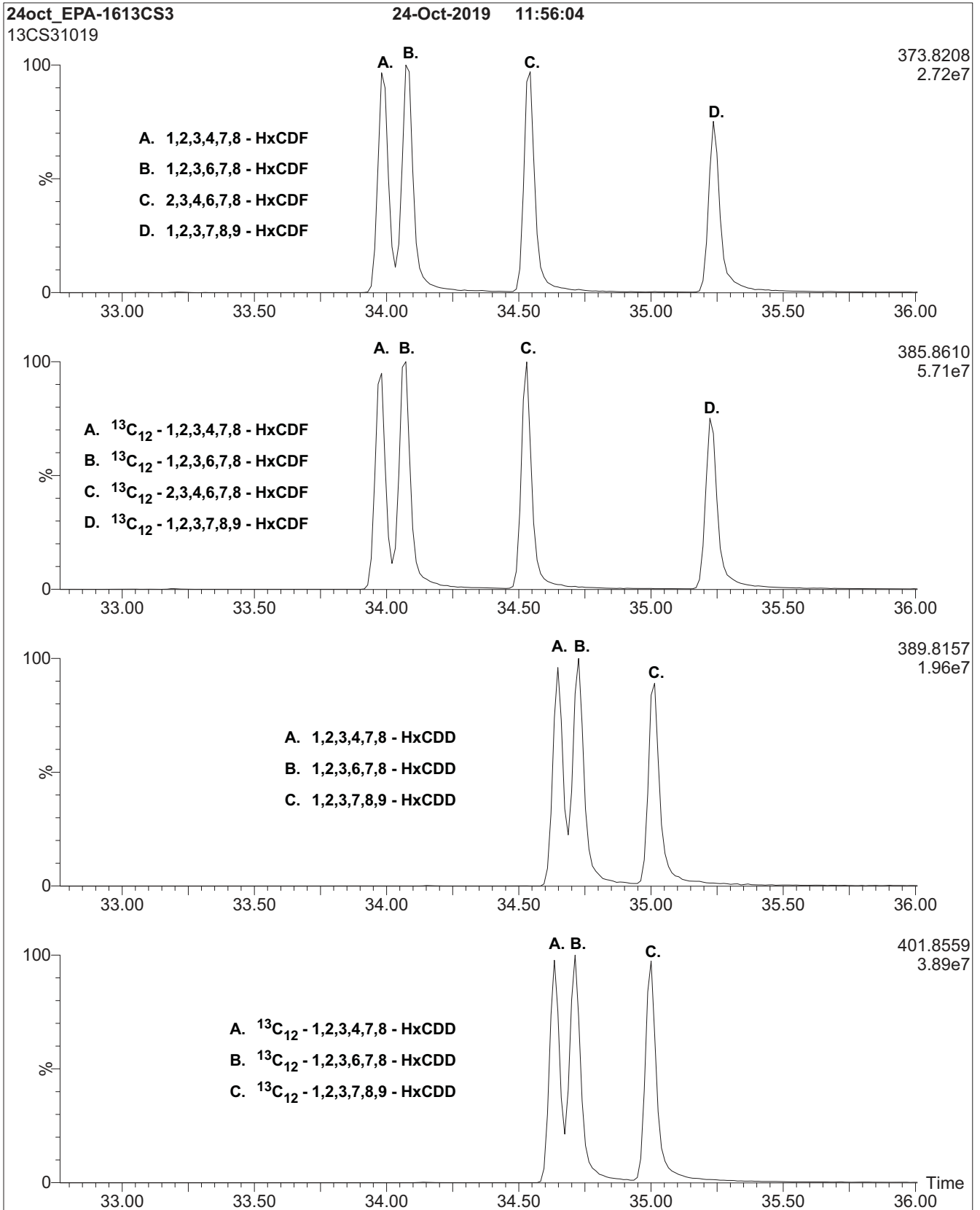
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



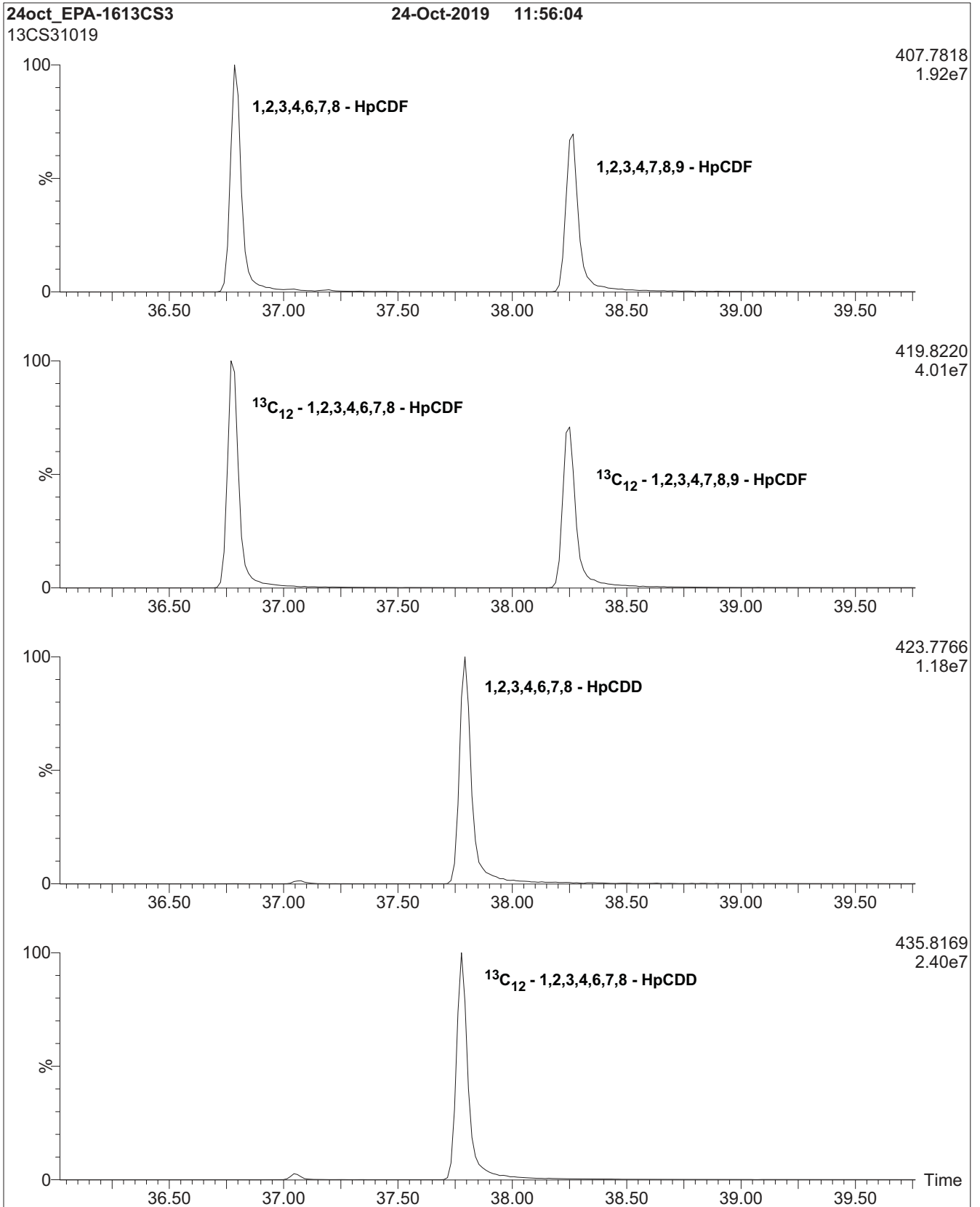
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



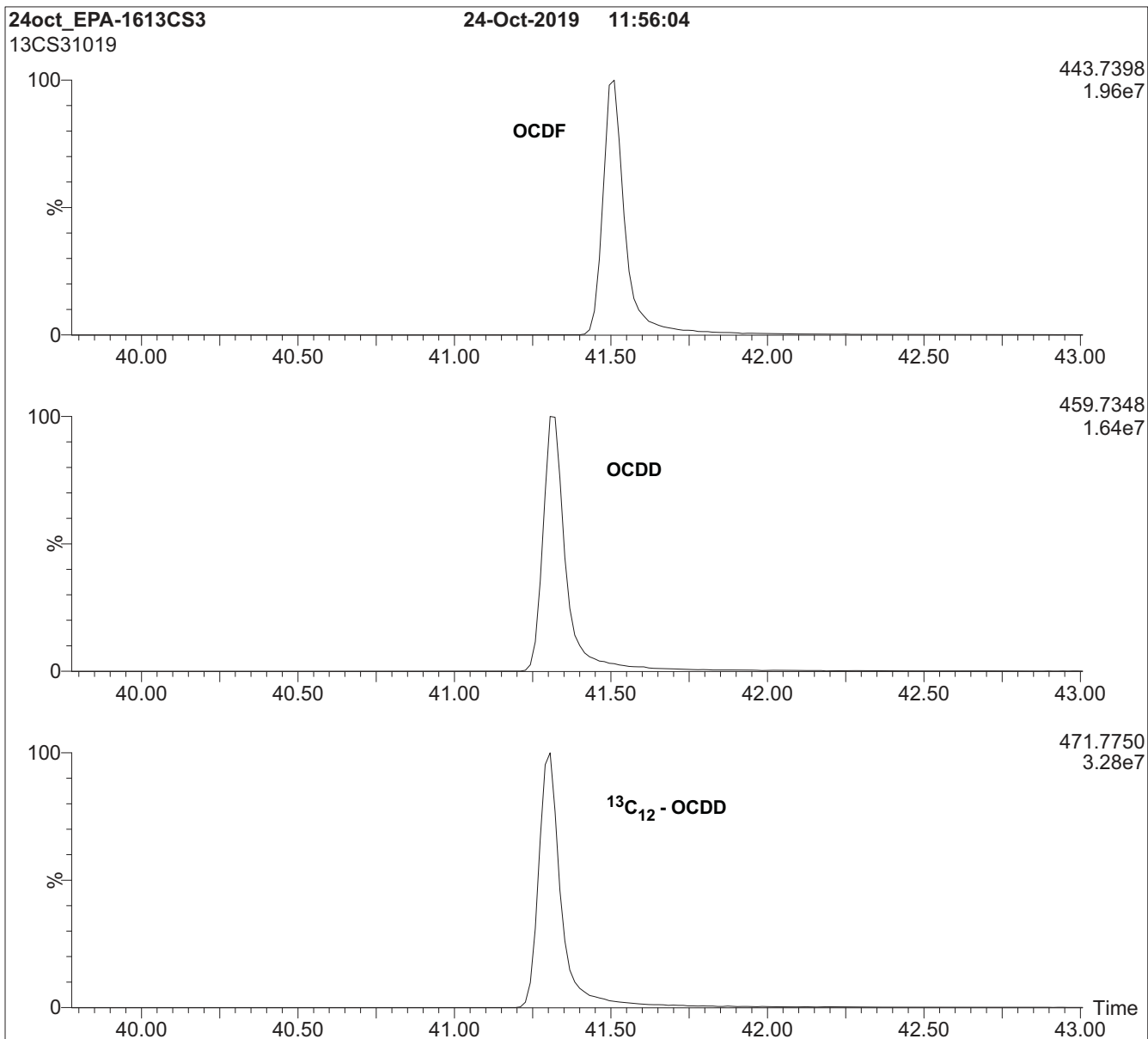
**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



**HRGC/HRMS:**

Agilent 6890N (HRGC)  
Autospec Ultima (HRMS)

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min

Injector: 280 °C (Splitless Injection)

Ionization: EI+

Detector: 280 °C

SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)

12 °C/min to 200 °C

3 °C/min to 235 °C

235 °C (8 min)

8 °C/min to 310 °C

310 °C (8 min)



**CS3WT**

**Calibration and Verification Solution (EPA-1613CS3)  
combined with Window Defining and 2,3,7,8-TCDD  
Resolution Testing Congeners**

**PRODUCT CODE:** CS3WT  
**LOT NUMBER:** CS3WT1020  
**SOLVENT(S):** Nonane/Toluene  
**DATE PREPARED:** (mm/dd/yyyy) 12/02/2020  
**LAST TESTED:** (mm/dd/yyyy) 12/10/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 12/10/2027  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**J001522**

1613 CS3WT CCAL STD  
Expires 12/10/2027  
*Prepared By Joshua Rains 2/10/2021*

**DESCRIPTION:**

CS3WT is a solution/mixture of native ( $^{12}\text{C}_{12}$ ) and mass-labelled ( $^{13}\text{C}_{12}$ ) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Tables A and B.

CS3WT is an HRGC/HRMS calibration solution that was designed and prepared to be used according to U.S. EPA Method 1613, Revision B, in place of EPA-1613CS3 (lot: 13CS31020). Additionally, it contains the PCDD and PCDF isomers required to set retention time windows as well as test and establish isomer specificity for 2,3,7,8-TCDD on a DB-5 (or equivalent) capillary column.

The individual  $^{13}\text{C}$ -labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of  $\geq 99\%$ . The 2,3,7,8-( $^{37}\text{Cl}_4$ )tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic ( $^{37}\text{Cl}$ ) purity of  $\geq 95\%$ . The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

<b><u>PRODUCT CODE</u></b>	<b><u>LOT NUMBER</u></b>
EPA-1613CS1	13CS11020
EPA-1613CS2	13CS21020
EPA-1613CS3	13CS31020
EPA-1613CS4	13CS41020
EPA-1613CS5	13CS51020
EPA-1613CSL	13CSL1020
EPA-1613CS0.5	13CS0.51020

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
519-822-2436 • Fax: 519-822-2849 • [info@well-labs.com](mailto:info@well-labs.com)



**DOCUMENTATION/ DATA ATTACHED:**

Table A: Quantitative Components and Concentrations of the Solution/Mixture

Table B: Semi-Quantitative Components and Concentrations of the Solution/Mixture

Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 3 for further details.
- Only the 2,3,7,8-substituted PCDDs and PCDFs should be used for quantitation. The other congeners (window defining and 2,3,7,8-TCDD resolution testing) should be considered semi-quantitative (within  $\pm 20\%$  of their design value). Impurities have been identified where possible.

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters

$x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to the quantitative components in this product. A maximum combined percent relative uncertainty of  $\pm 20\%$  has been assigned to the semi-quantitative components in this product.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: CS3WT; Quantitative Components and Concentrations (ng/mL, ± 5%, in nonane/4.5% toluene)**

Compound	Designation <sup>a</sup>	Acronym	CAS #	Concentration (ng/mL)
<b>Native PCDDs:</b>				
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin		2,3,7,8-TCDD	1746-01-6	10.0
1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin		1,2,3,7,8-PeCDD	40321-76-4	50.0
1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin		1,2,3,4,7,8-HxCDD	39227-28-6	50.0
1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin		1,2,3,6,7,8-HxCDD	57653-85-7	50.0
1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin	Last HxCDD <sup>b</sup>	1,2,3,7,8,9-HxCDD	19408-74-3	50.0
1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin	Last HpCDD	1,2,3,4,6,7,8-HpCDD	35822-46-9	50.0
Octachlorodibenzo- <i>p</i> -dioxin		OCDD	3268-87-9	100
<b>Native PCDFs:</b>				
2,3,7,8-Tetrachlorodibenzofuran		2,3,7,8-TCDF	51207-31-9	10.0
1,2,3,7,8-Pentachlorodibenzofuran		1,2,3,7,8-PeCDF	57117-41-6	50.0
2,3,4,7,8-Pentachlorodibenzofuran		2,3,4,7,8-PeCDF	57117-31-4	50.0
1,2,3,4,7,8-Hexachlorodibenzofuran		1,2,3,4,7,8-HxCDF	70648-26-9	50.0
1,2,3,6,7,8-Hexachlorodibenzofuran		1,2,3,6,7,8-HxCDF	57117-44-9	50.0
1,2,3,7,8,9-Hexachlorodibenzofuran		1,2,3,7,8,9-HxCDF	72918-21-9	50.0
2,3,4,6,7,8-Hexachlorodibenzofuran		2,3,4,6,7,8-HxCDF	60851-34-5	50.0
1,2,3,4,6,7,8-Heptachlorodibenzofuran	First HpCDF <sup>c</sup>	1,2,3,4,6,7,8-HpCDF	67562-39-4	50.0
1,2,3,4,7,8,9-Heptachlorodibenzofuran	Last HpCDF	1,2,3,4,7,8,9-HpCDF	55673-89-7	50.0
Octachlorodibenzofuran		OCDF	39001-02-0	100
<b>Mass-Labelled PCDDs:</b>				
2,3,7,8-Tetrachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -OCDD	114423-97-1	200
<b>Mass-Labelled PCDFs:</b>				
2,3,7,8-Tetrachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	109719-94-0	100
<b>Cleanup Standard:</b>				
2,3,7,8-( <sup>37</sup> Cl <sub>4</sub> )Tetrachlorodibenzo- <i>p</i> -dioxin		<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	85508-50-5	10.0
<b>Internal Standards:</b>				
1,2,3,4-Tetrachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	114423-99-3	100
1,2,3,7,8,9-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	109719-82-6	100

<sup>a</sup> First/Last eluting isomer for the specified homologue group (see Table B for additional Window Definers).

<sup>b, c</sup> – see Table B for footnote.

**Table B: CS3WT; Semi-Quantitative Components and Concentrations (ng/mL, ± 20%, in nonane/4.5% toluene)**

Compound	Designation <sup>a</sup>	Acronym	CAS #	Concentration (ng/mL)
<b>PCDD Window Definers:</b>				
1,3,6,8-Tetrachlorodibenzo- <i>p</i> -dioxin	First TCDD	1,3,6,8-TCDD	33423-92-6	10.0
1,2,8,9-Tetrachlorodibenzo- <i>p</i> -dioxin	Last TCDD	1,2,8,9-TCDD	62470-54-6	10.0
1,2,4,6,8-/1,2,4,7,9-Pentachlorodibenzo- <i>p</i> -dioxin	First PeCDD	1,2,4,6,8-PeCDD 1,2,4,7,9-PeCDD	71998-76-0 82291-37-0	50.0 <sup>d</sup>
1,2,3,8,9-Pentachlorodibenzo- <i>p</i> -dioxin	Last PeCDD	1,2,3,8,9-PeCDD	71925-18-3	50.0
1,2,4,6,7,9-Hexachlorodibenzo- <i>p</i> -dioxin	First HxCDD	1,2,4,6,7,9-HxCDD	39227-62-8	50.0
1,2,3,4,6,7,9-Heptachlorodibenzo- <i>p</i> -dioxin	First HpCDD	1,2,3,4,6,7,9-HpCDD	58200-70-7	50.0
<b>PCDF Window Definers:</b>				
1,3,6,8-Tetrachlorodibenzofuran	First TCDF	1,3,6,8-TCDF	71998-72-6	10.0
1,2,8,9-Tetrachlorodibenzofuran	Last TCDF	1,2,8,9-TCDF	70648-22-5	10.0
1,3,4,6,8-Pentachlorodibenzofuran	First PeCDF	1,3,4,6,8-PeCDF	83704-55-6	50.0
1,2,3,8,9-Pentachlorodibenzofuran	Last PeCDF	1,2,3,8,9-PeCDF	83704-54-5	50.0
1,2,3,4,6,8-Hexachlorodibenzofuran	First HxCDF	1,2,3,4,6,8-HxCDF	69698-60-8	50.0
<b>2,3,7,8-TCDD Resolution Testing Isomers:</b>				
1,2,3,4-Tetrachlorodibenzo- <i>p</i> -dioxin		1,2,3,4-TCDD	30746-58-8	5.00
1,2,3,7-/1,2,3,8-Tetrachlorodibenzo- <i>p</i> -dioxin		1,2,3,7-TCDD 1,2,3,8-TCDD	67028-18-6 53555-02-5	5.00 <sup>d</sup>
1,2,3,9-Tetrachlorodibenzo- <i>p</i> -dioxin		1,2,3,9-TCDD	71669-26-6	10.0

<sup>a</sup> First/Last eluting isomer for the specified homologue group (see Table A for additional Window Definers).

<sup>b</sup> 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD on a 60 m DB-5 column. Use 1,2,3,7,8,9-HxCDD (see Table A) and 1,2,3,4,6,7,9-HpCDD to approximate the end of the HxCDD window.

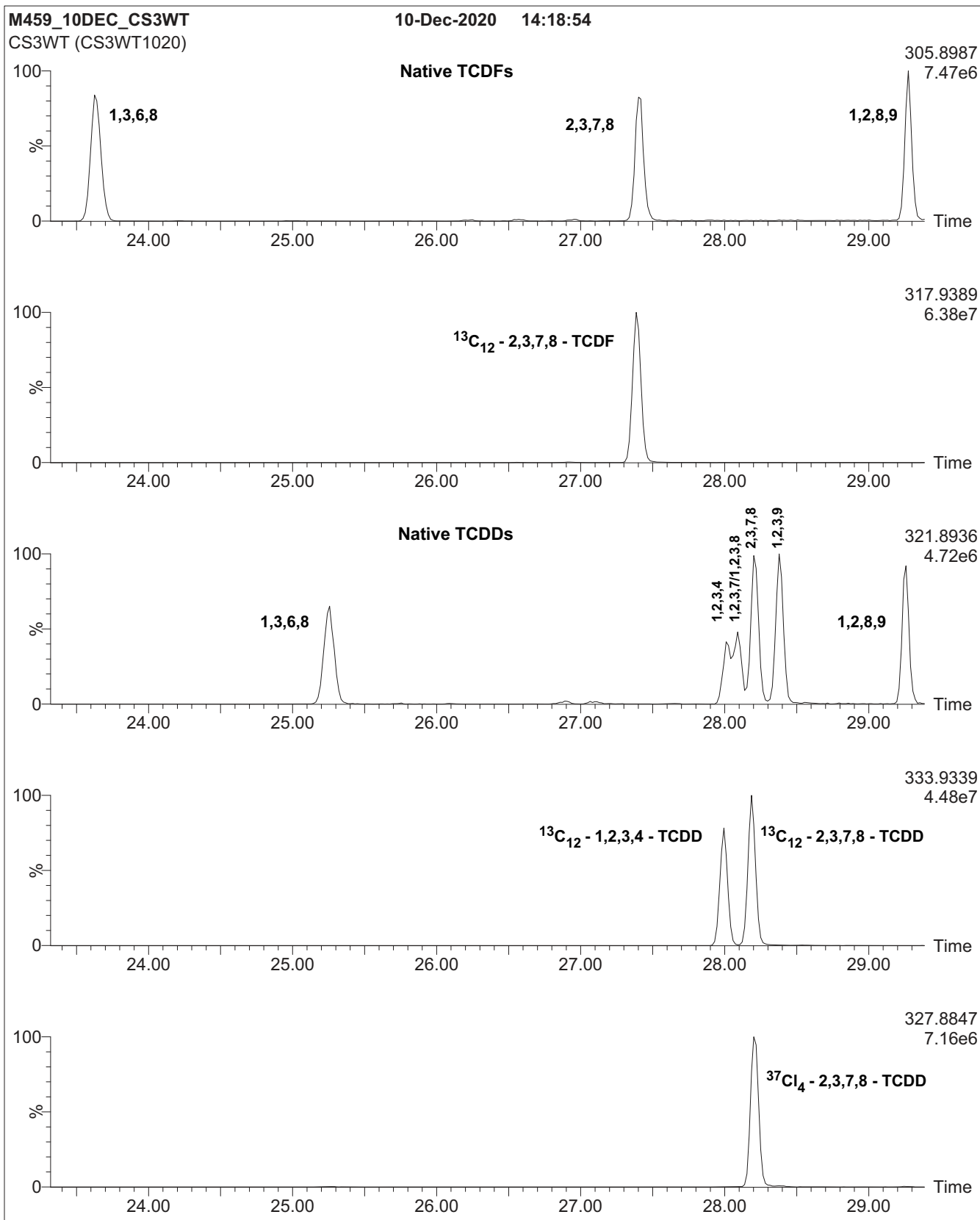
<sup>c</sup> 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF on a 60 m DB-5 column. Use 1,2,3,4,6,7,8-HpCDF (see Table A) to approximate the end of the HxCDF window.

<sup>d</sup> Total concentration of isomers.

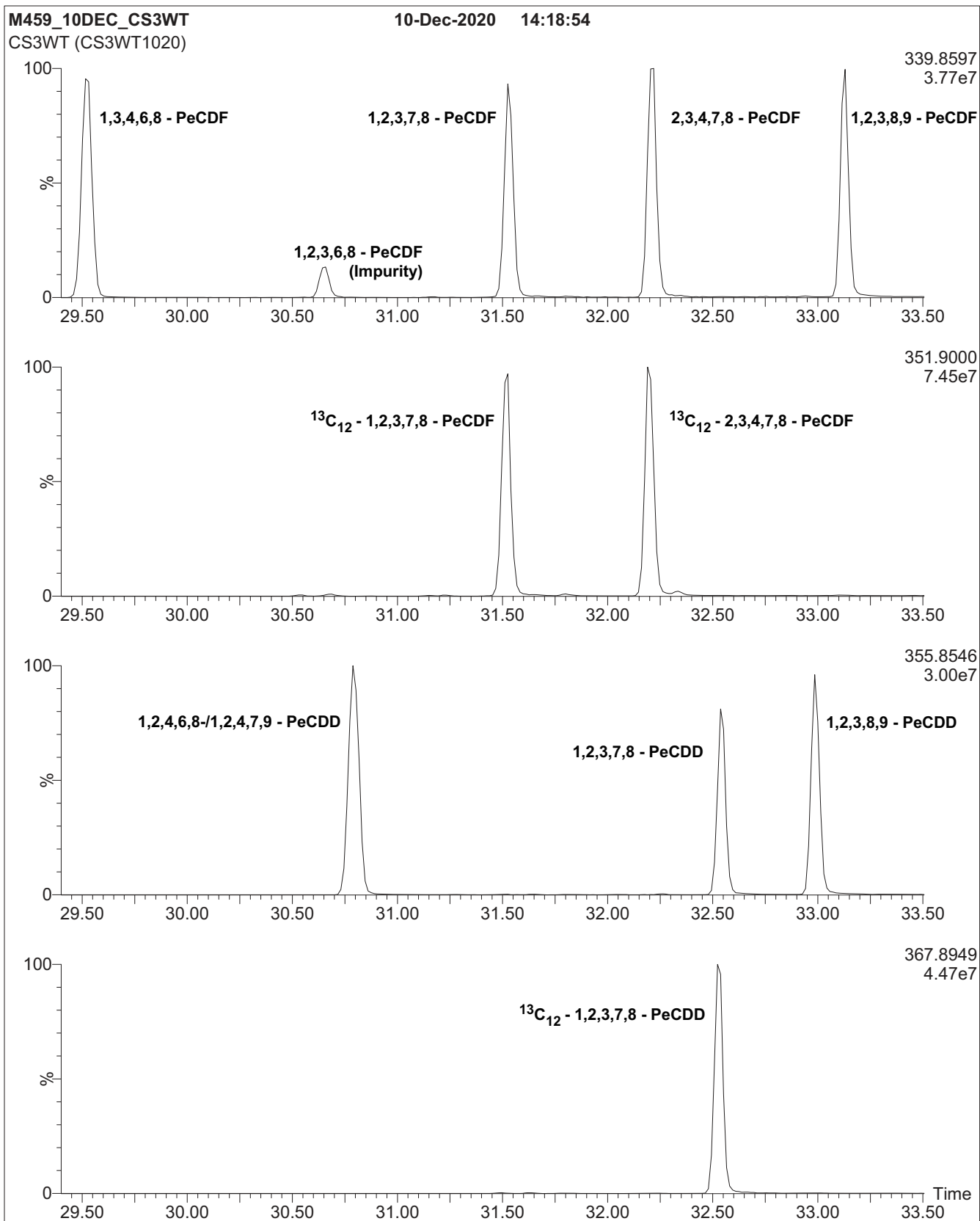
Certified By:   
B.G. Chittim, General Manager

Date: 09/17/2021  
(mm/dd/yyyy)

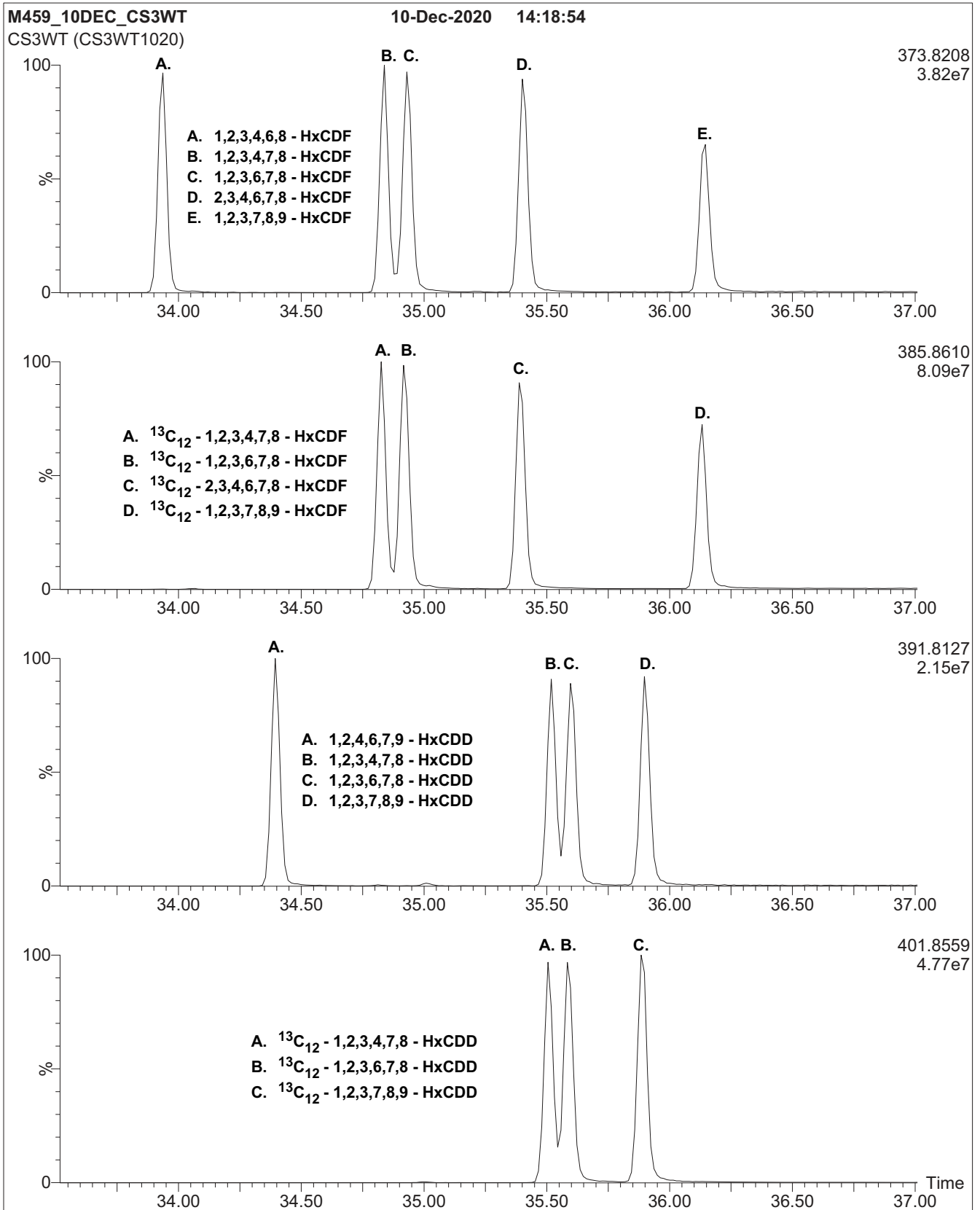
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



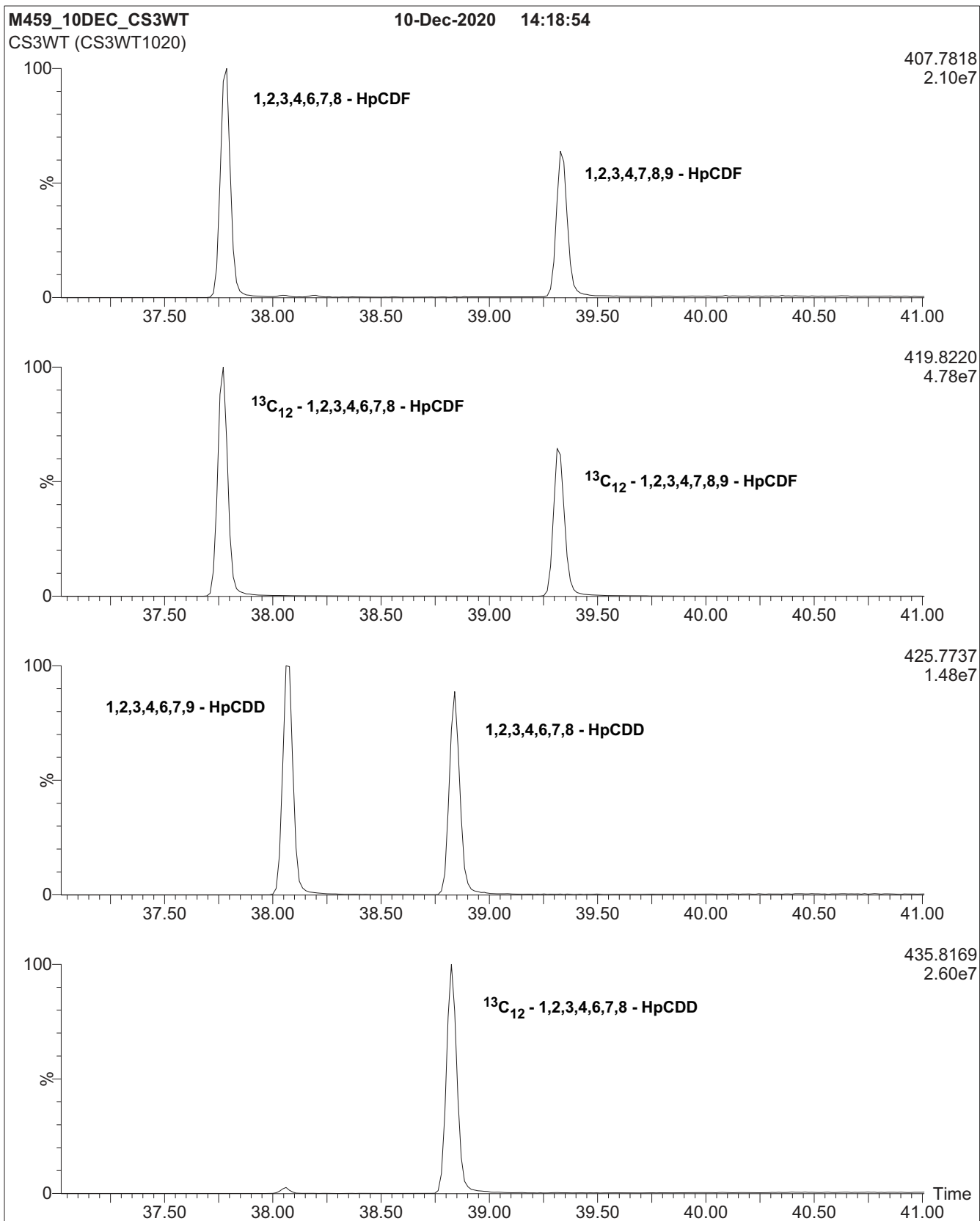
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

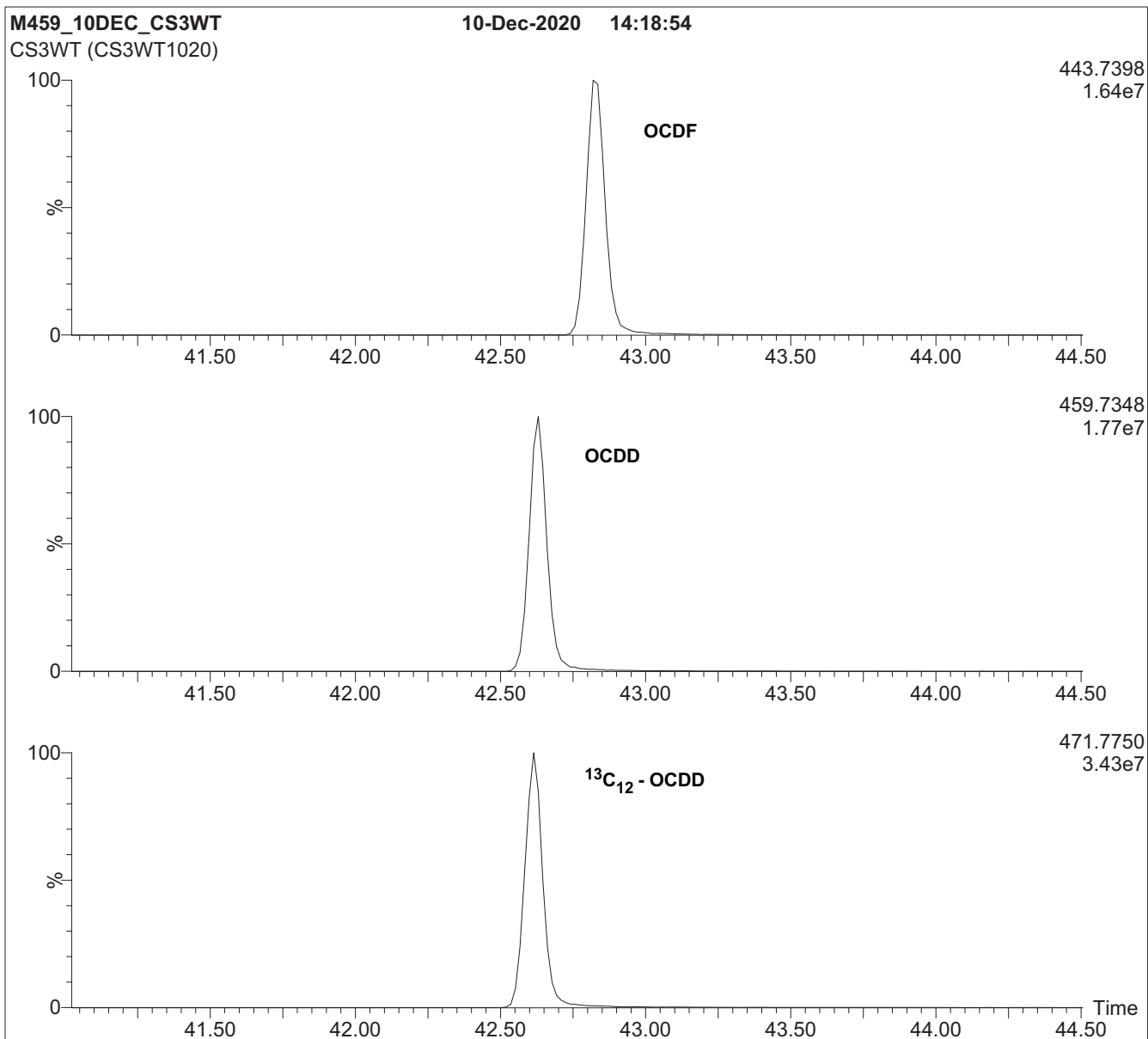


**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**





**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**Conditions for Figure 1:**

Agilent 6890N HRGC  
Autospec Ultima HRMS

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 mL/min

Injector: 280°C (Splitless Injection)

Ionization: EI+

Detector: 280°C

SIR at 10,000 mass resolving power

Oven: 150°C (1 min)

12°C/min to 200°C

3°C/min to 235°C

235°C (8 min)

8°C/min to 310°C

310°C (8 min)



Analytical Standard Record  
Standard ID: J012679

Printed: 3/2/2023 9:01:46AM

Description:	Dioxin ISC Mix	Expires:	01-Dec-2022
Standard Type:	Other	Prepared:	01-Dec-2021
Solvent:	Nonane	Prepared By:	Peter Kepler
Final Volume (mls):	1	Department:	HRGCMS
Vials:	1	Last Edit:	01-Dec-2021 09:57 by PK
Vendor:		Lot #:	1234
Vendor Catalog #:			

**Comments**

Stock: H9902: 2378-TCDF, 3467-TCDF, 2348-TCDF, 1278-TCDD, 2378-TCDD. each @ 1000 ng/mL

10 ul to 1 mL FV in Nonane. Final Conc = 10 ng/mL. Analytes and units not available in Element.

Analyte	CAS Number	Concentration	Units
2,3,7,8-TCDF	51207-31-9	10	ug/mL
2,3,7,8-TCDD	1746-01-6	10	ug/mL



**EPA-1613PAR**

**U.S. EPA Method 1613 Native PCDD/PCDF  
Precision and Recovery Stock Solution**

**PRODUCT CODE:** EPA-1613PAR  
**LOT NUMBER:** 13PAR1021  
**SOLVENT(S):** Nonane/Toluene  
**DATE PREPARED:** (mm/dd/yyyy) 10/25/2021  
**LAST TESTED:** (mm/dd/yyyy) 11/03/2021  
**EXPIRY DATE:** (mm/dd/yyyy) 11/03/2028  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

J013397  
Rec'd. JR  
12/20/21

**DESCRIPTION:**

EPA-1613PAR is a solution/mixture of all the 2,3,7,8-substituted polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613PAR was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual PCDDs and PCDFs all have chemical purities of >98%.

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture  
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

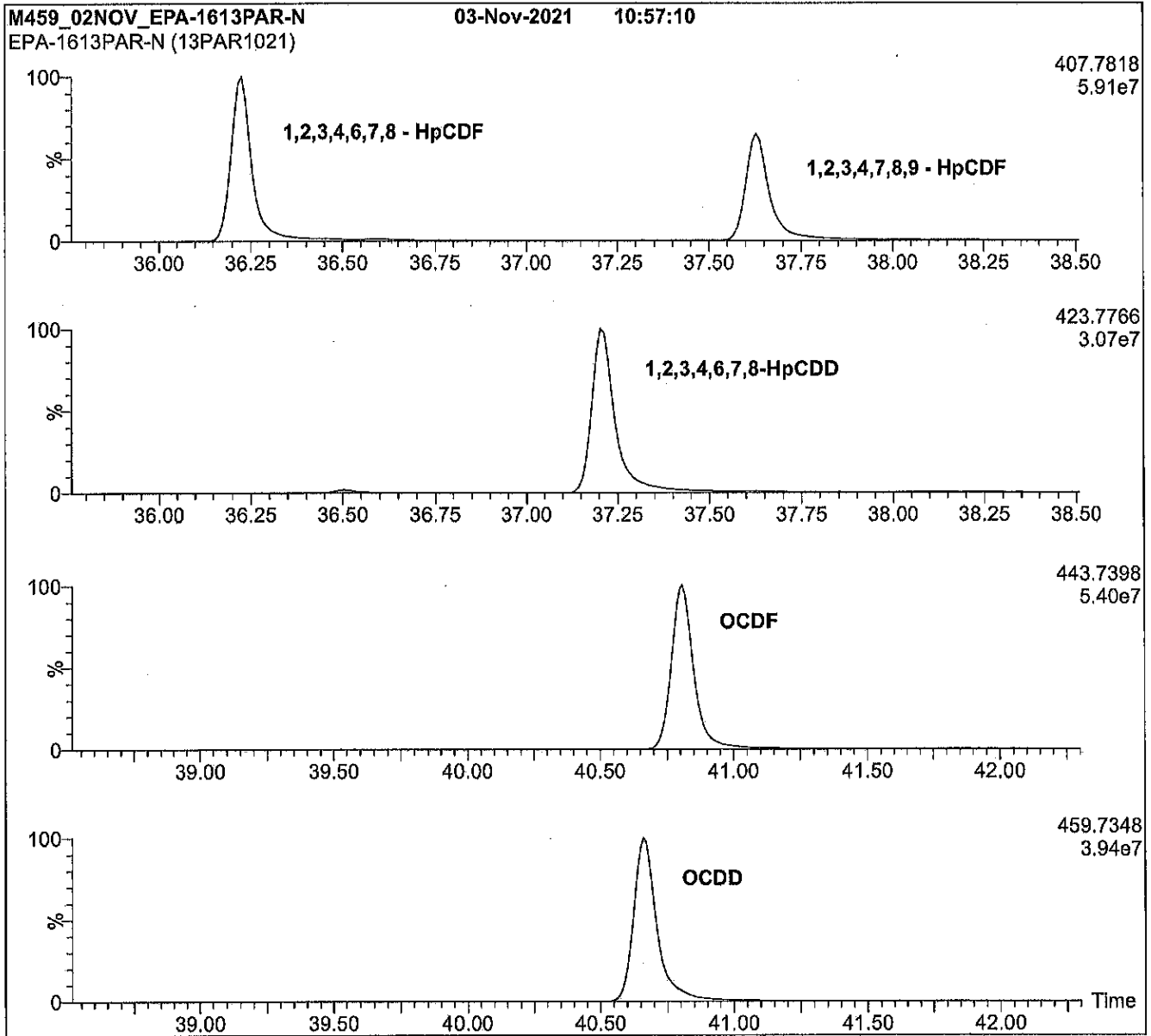
**Table A: EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
<b>PCDDs:</b>			
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin	2,3,7,8-TCDD	1746-01-6	40.0
1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin	1,2,3,7,8-PeCDD	40321-76-4	200
1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,4,7,8-HxCDD	39227-28-6	200
1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,6,7,8-HxCDD	57653-85-7	200
1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,7,8,9-HxCDD	19408-74-3	200
1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin	1,2,3,4,6,7,8-HpCDD	35822-46-9	200
Octachlorodibenzo- <i>p</i> -dioxin	OCDD	3268-87-9	400
<b>PCDFs:</b>			
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	51207-31-9	40.0
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	57117-41-6	200
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	57117-31-4	200
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	70648-26-9	200
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	57117-44-9	200
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	72918-21-9	200
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	60851-34-5	200
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	67562-39-4	200
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	55673-89-7	200
Octachlorodibenzofuran	OCDF	39001-02-0	400

Certified By:   
 B.G. Chittim, General Manager

Date: 11/05/2021  
(mm/dd/yyyy)

**Figure 1: EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



**Conditions for Figure 1:**

Agilent 6890N HRGC  
Autospec Ultima HRMS

**Chromatographic Conditions:**

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W	
Flow:	Constant at 1.4 mL/min	Oven:
Injector:	280°C (Splitless Injection)	150°C (1 min)
Ionization:	EI+	12°C/min to 200°C
Detector:	280°C	3°C/min to 235°C
	SIR at 10,000 mass resolving power	235°C (8 min)
		8°C/min to 310°C
		310°C (8 min)



**EPA-1613PAR**

**U.S. EPA Method 1613 Native PCDD/PCDF  
Precision and Recovery Stock Solution**

**PRODUCT CODE:** EPA-1613PAR  
**LOT NUMBER:** 13PAR1021  
**SOLVENT(S):** Nonane/Toluene  
**DATE PREPARED:** (mm/dd/yyyy) 10/25/2021  
**LAST TESTED:** (mm/dd/yyyy) 11/03/2021  
**EXPIRY DATE:** (mm/dd/yyyy) 11/03/2028  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

J013397  
Rec'd. JR  
12/20/21

**DESCRIPTION:**

EPA-1613PAR is a solution/mixture of all the 2,3,7,8-substituted polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613PAR was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual PCDDs and PCDFs all have chemical purities of >98%.

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution/Mixture  
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)**

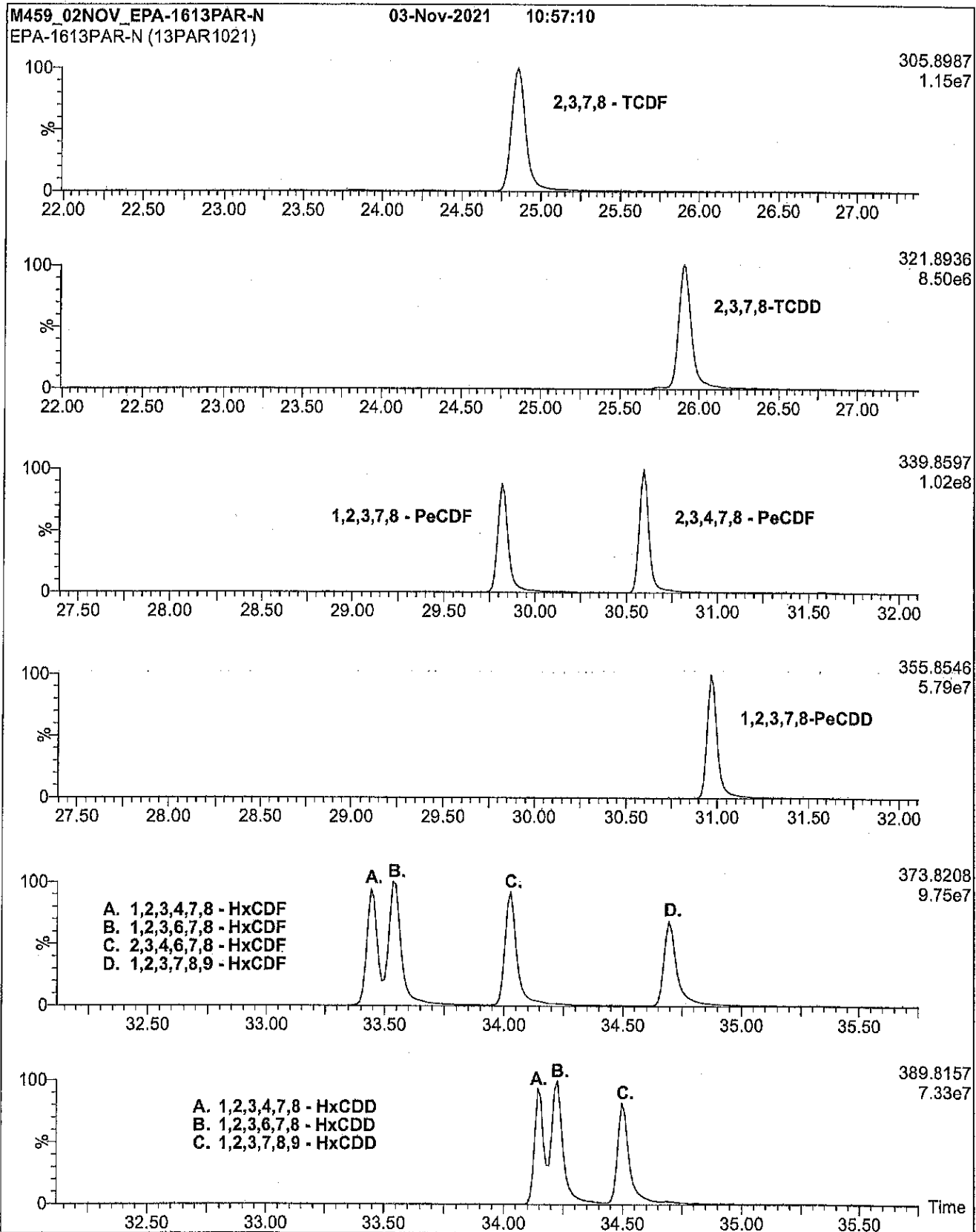
Compound	Acronym	CAS #	Concentration (ng/mL)
<b>PCDDs:</b>			
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin	2,3,7,8-TCDD	1746-01-6	40.0
1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin	1,2,3,7,8-PeCDD	40321-76-4	200
1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,4,7,8-HxCDD	39227-28-6	200
1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,6,7,8-HxCDD	57653-85-7	200
1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin	1,2,3,7,8,9-HxCDD	19408-74-3	200
1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin	1,2,3,4,6,7,8-HpCDD	35822-46-9	200
Octachlorodibenzo- <i>p</i> -dioxin	OCDD	3268-87-9	400
<b>PCDFs:</b>			
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	51207-31-9	40.0
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	57117-41-6	200
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	57117-31-4	200
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	70648-26-9	200
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	57117-44-9	200
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	72918-21-9	200
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	60851-34-5	200
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	67562-39-4	200
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	55673-89-7	200
Octachlorodibenzofuran	OCDF	39001-02-0	400

Certified By:   
 B.G. Chittim, General Manager

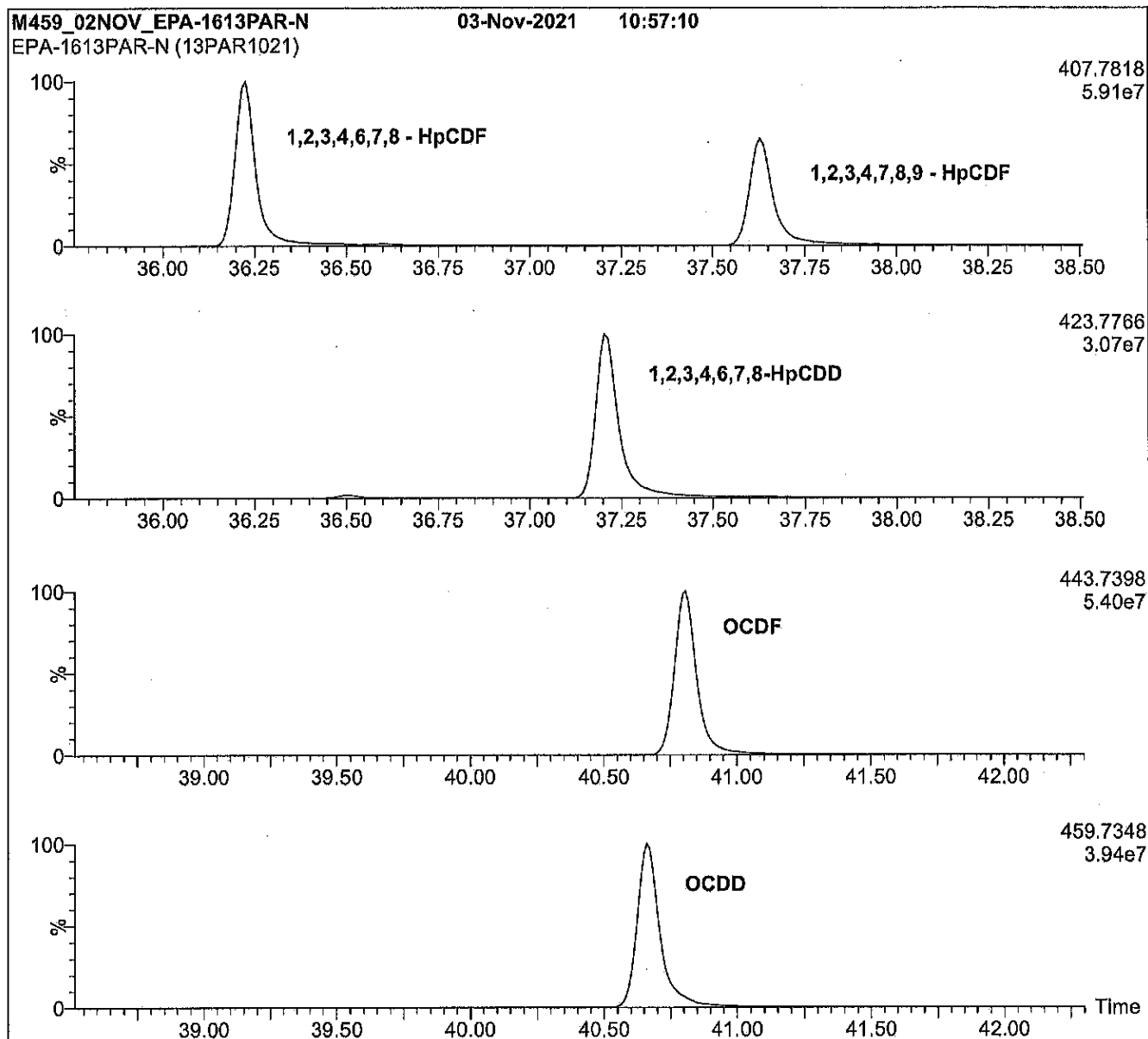
Date: 11/05/2021  
(mm/dd/yyyy)



**Figure 1: EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



**Conditions for Figure 1:**

Agilent 6890N HRGC  
Autospec Ultima HRMS

**Chromatographic Conditions:**

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W	
Flow:	Constant at 1.4 mL/min	Oven: 150°C (1 min)
Injector:	280°C (Splitless Injection)	12°C/min to 200°C
Ionization:	EI+	3°C/min to 235°C
Detector:	280°C	235°C (8 min)
	SIR at 10,000 mass resolving power	8°C/min to 310°C
		310°C (8 min)



**EPA-1613CSS**

**U.S. EPA Method 1613 Cleanup Standard  
Spiking Solution**

**PRODUCT CODE:** EPA-1613CSS  
**LOT NUMBER:** 13CSS1021  
**SOLVENT(S):** Nonane  
**DATE PREPARED:** (mm/dd/yyyy) 10/29/2021  
**LAST TESTED:** (mm/dd/yyyy) 10/31/2021  
**EXPIRY DATE:** (mm/dd/yyyy) 10/31/2028  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DESCRIPTION:**

K003104

EPA-1613CSS contains 2,3,7,8-(<sup>37</sup>Cl<sub>4</sub>)tetrachlorodibenzo-*p*-dioxin at the concentration given in Table A.

EPA-1613CSS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

2,3,7,8-(<sup>37</sup>Cl<sub>4</sub>)Tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (<sup>37</sup>Cl) purity of ≥95%.

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations of the Solution  
 Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.

**Table A: EPA-1613CSS; Components and Concentrations (ng/mL, ± 5% in nonane)**

Compound	Acronym	CAS #	Concentration (ng/mL)
2,3,7,8-( <sup>37</sup> Cl <sub>4</sub> )Tetrachlorodibenzo- <i>p</i> -dioxin	<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	85508-50-5	40.0

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
 B.G. Chittim, General Manager  
**Date:** 11/05/2021  
 (mm/dd/yyyy)

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

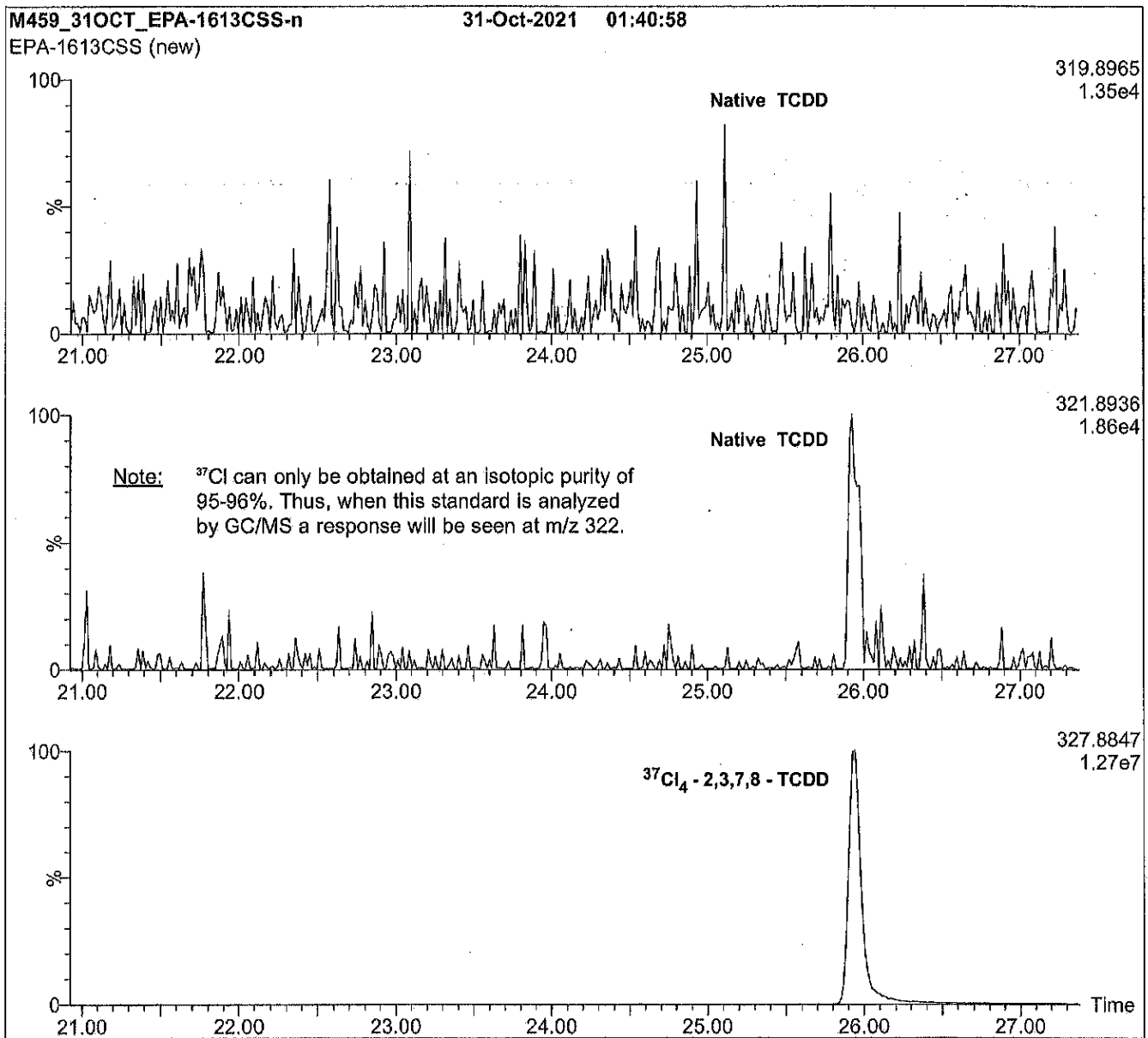
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: EPA-1613CSS; HRGC/HRMS Data (60 m DB-5 Column)**



**Conditions for Figure 1:**

Agilent 6890N HRGC  
Autospec Ultima HRMS

**Chromatographic Conditions:**

Column:	60 m DB-5 (0.25 mm id, 0.25 μm film thickness) Agilent J&W	
Flow:	Constant at 1.4 mL/min	Oven: 150°C (1 min)
Injector:	280°C (Splitless Injection)	12°C/min to 200°C
Ionization:	EI+	3°C/min to 235°C
Detector:	280°C	235°C (8 min)
	SIR at 10,000 mass resolving power	8°C/min to 310°C
		310°C (8 min)



**EPA-1613LCS**

**U.S. EPA Method 1613**  
**Labelled Compound Stock Solution**

**PRODUCT CODE:** EPA-1613LCS  
**LOT NUMBER:** 13LCS1021  
**SOLVENT(S):** Nonane/Toluene  
**DATE PREPARED:** (mm/dd/yyyy) 10/29/2021  
**LAST TESTED:** (mm/dd/yyyy) 10/31/2021  
**EXPIRY DATE:** (mm/dd/yyyy) 10/31/2028  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DESCRIPTION:**

K3105

EPA-1613LCS is a solution/mixture of mass-labelled ( $^{13}\text{C}_{12}$ ) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613LCS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual  $^{13}\text{C}$ -labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of  $\geq 99\%$ .

**DOCUMENTATION/ DATA ATTACHED:**

Table A: Components and Concentrations  
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

### **INTENDED USE:**

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### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters

$x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

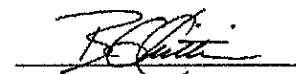
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: EPA-1613LCS; Components and Concentrations (ng/mL, ± 5% in nonane/3.2% toluene)**

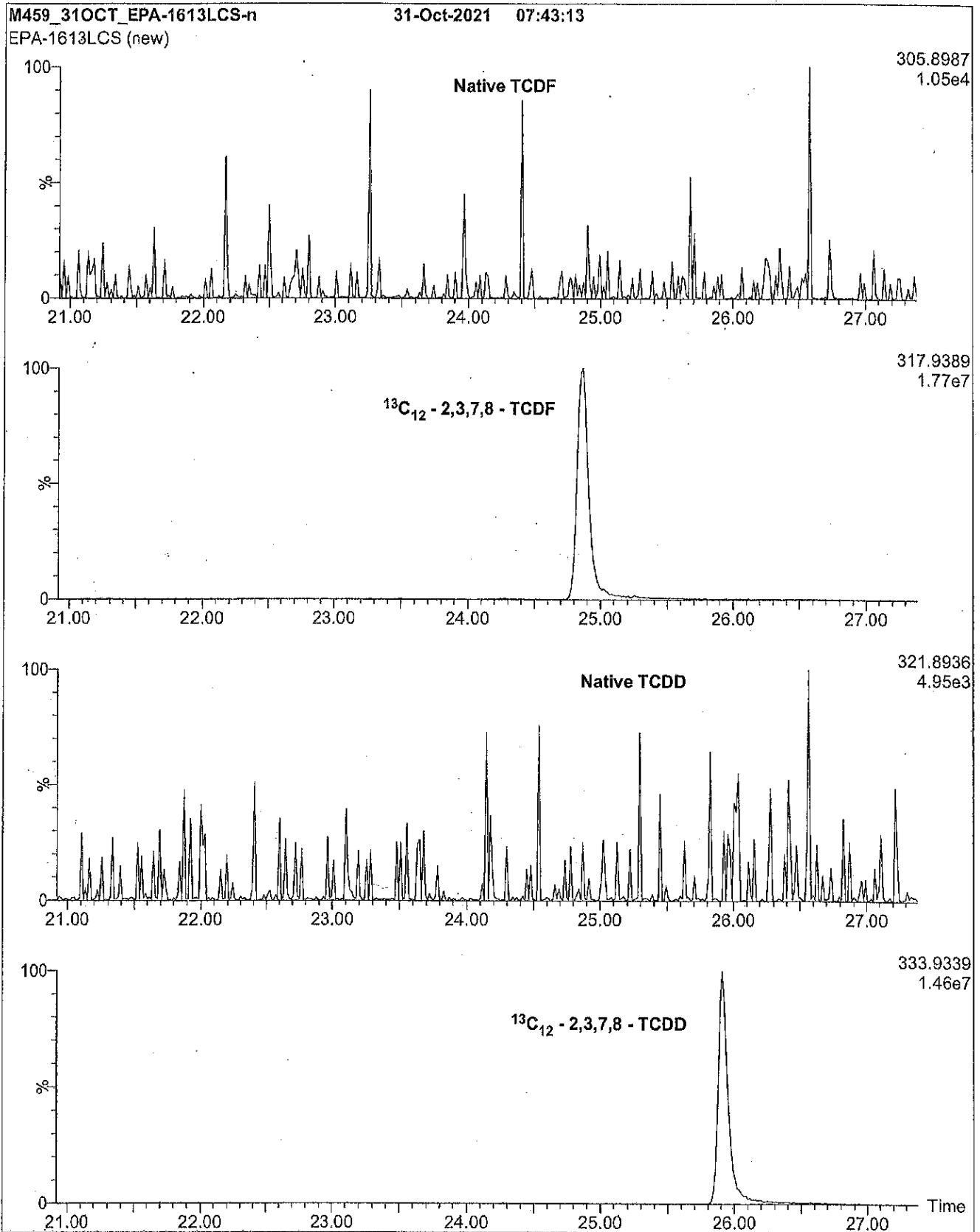
Compound	Acronym	CAS #	Concentration (ng/mL)
<b>Mass-Labelled PCDDs:</b>			
2,3,7,8-Tetrachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin	<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin	<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin	<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin	<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin	<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin	<sup>13</sup> C <sub>12</sub> -OCDD	114423-97-1	200
<b>Mass-Labelled PCDFs:</b>			
2,3,7,8-Tetrachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran	<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	109719-94-0	100

Certified By:   
 B.G. Chittim, General Manager

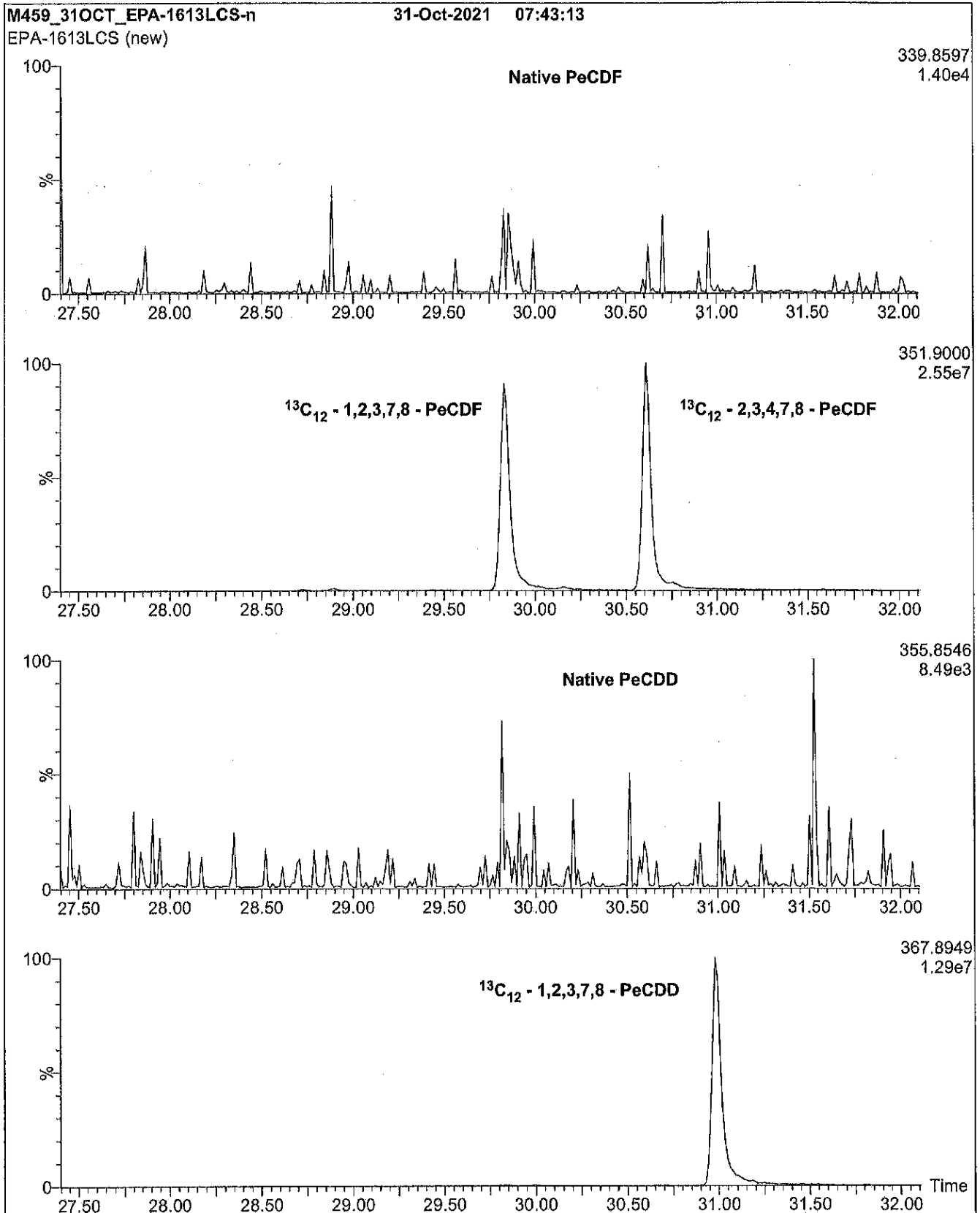
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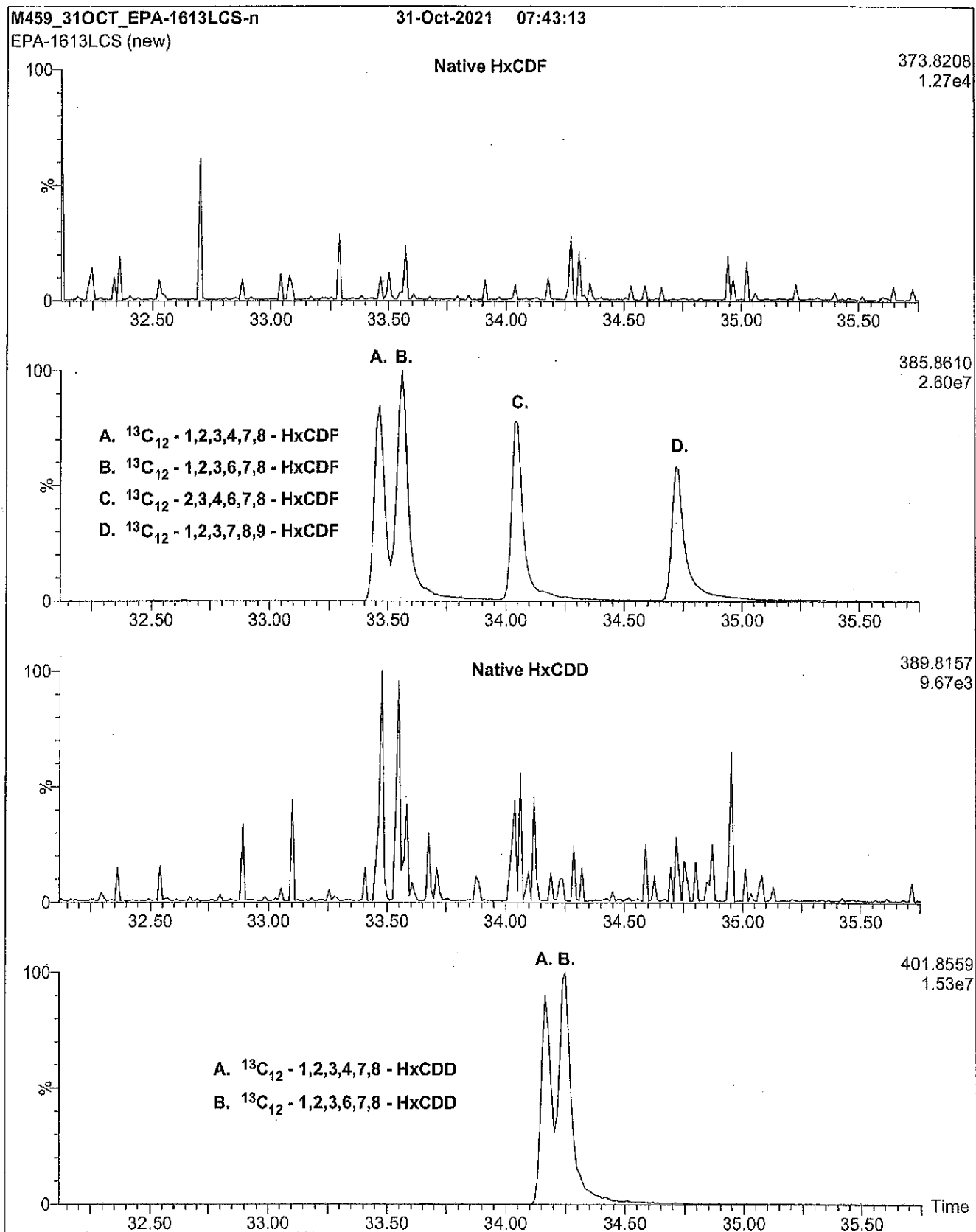
**Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



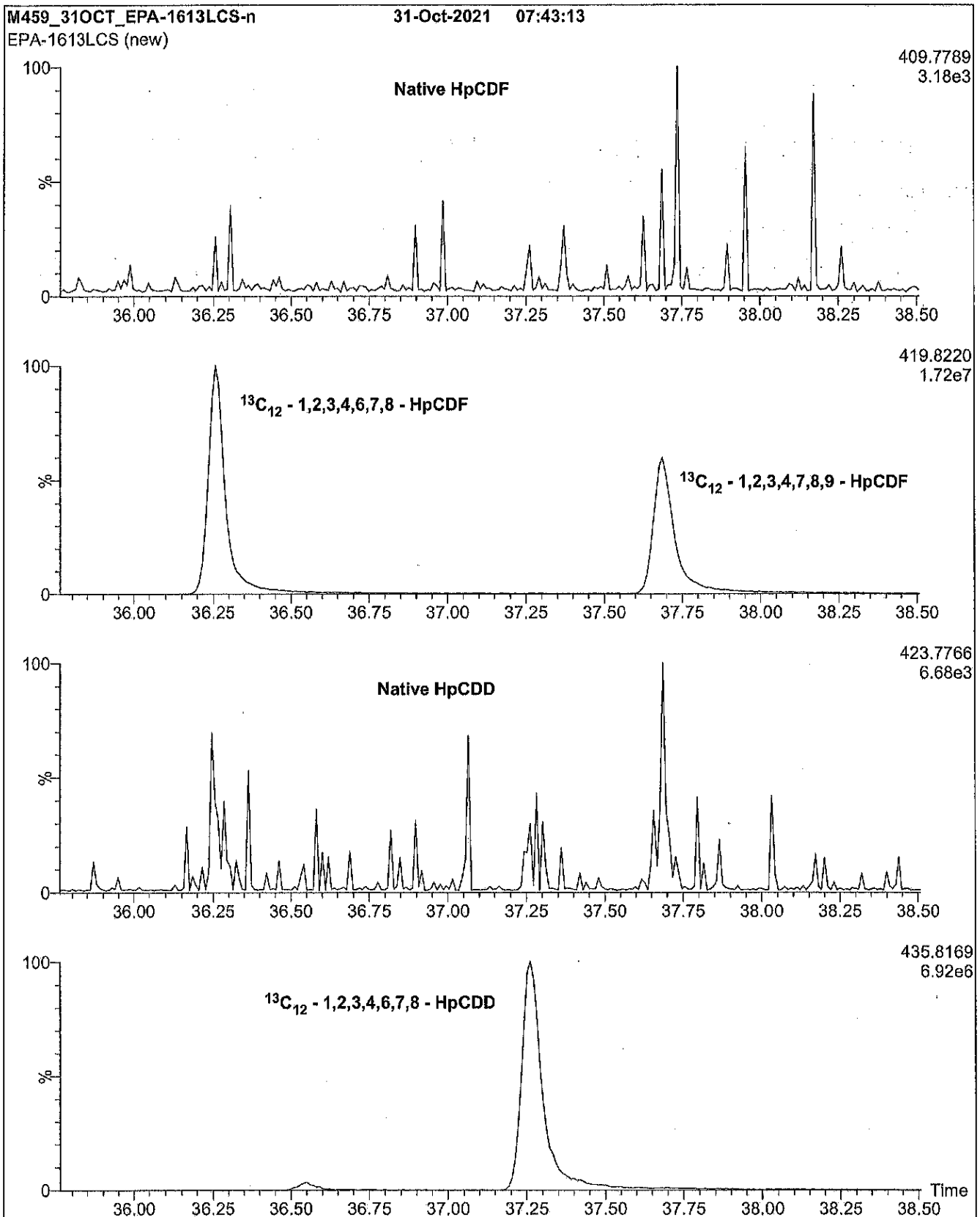
**Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



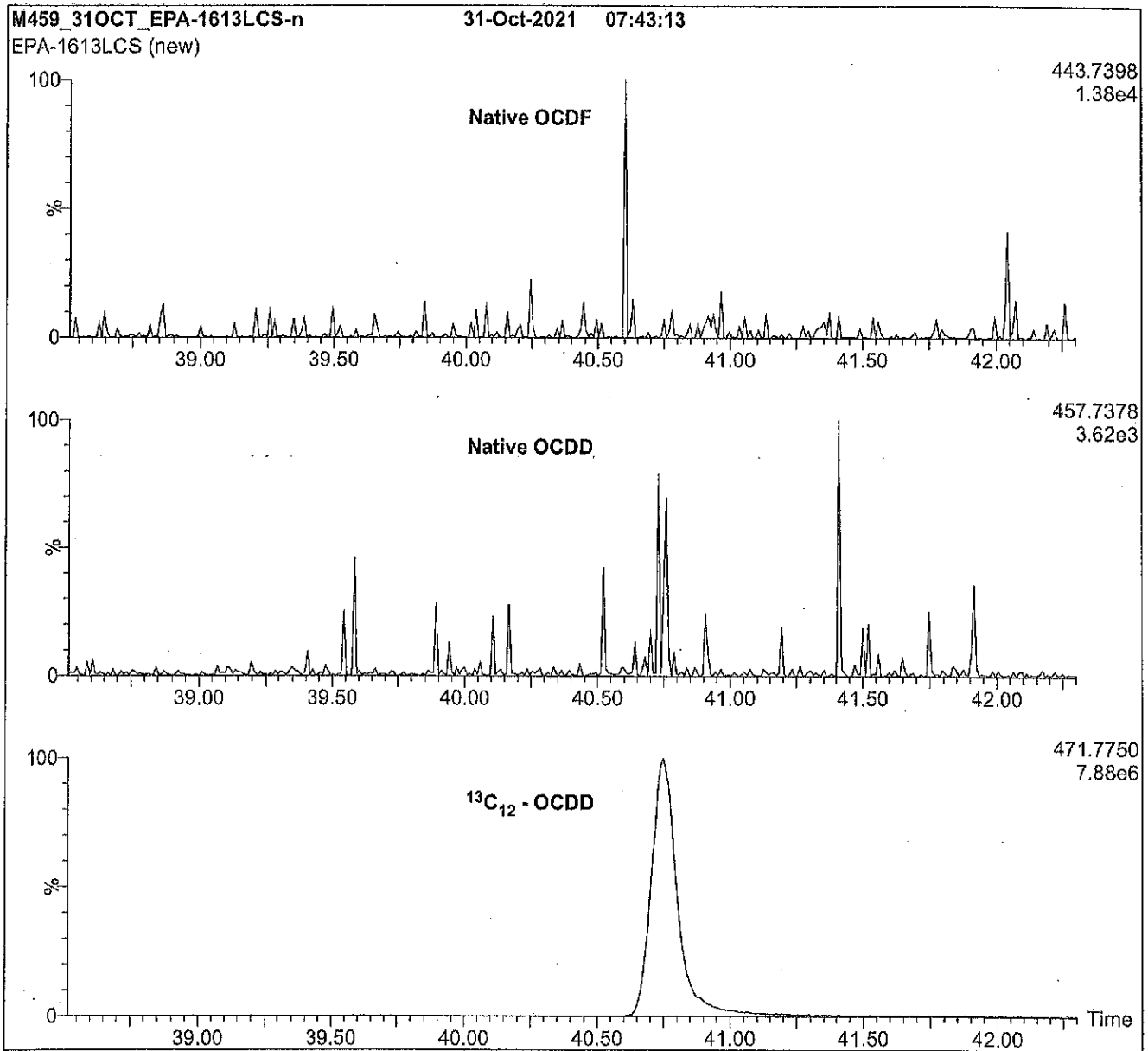
**Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



**Conditions for Figure 1:**

Agilent 6890N HRGC  
Autospec Ultima HRMS

**Chromatographic Conditions:**

Column:	60 m DB-5 (0.25 mm id, 0.25 μm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)



K9821

**CS3WT**

**Calibration and Verification Solution (EPA-1613CS3)  
combined with Window Defining and 2,3,7,8-TCDD  
Resolution Testing Congeners**

**PRODUCT CODE:** CS3WT  
**LOT NUMBER:** CS3WT1021  
**SOLVENT(S):** Nonane/Toluene  
**DATE PREPARED:** (mm/dd/yyyy) 11/01/2021  
**LAST TESTED:** (mm/dd/yyyy) 11/02/2021  
**EXPIRY DATE:** (mm/dd/yyyy) 11/02/2028  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DESCRIPTION:**

CS3WT is a solution/mixture of native (<sup>12</sup>C<sub>12</sub>) and mass-labelled (<sup>13</sup>C<sub>12</sub>) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Tables A and B.

CS3WT is an HRGC/HRMS calibration solution that was designed and prepared to be used according to U.S. EPA Method 1613, Revision B, in place of EPA-1613CS3 (lot: 13CS31021). Additionally, it contains the PCDD and PCDF isomers required to set retention time windows as well as test and establish isomer specificity for 2,3,7,8-TCDD on a DB-5 (or equivalent) capillary column.

The individual <sup>13</sup>C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-(<sup>37</sup>Cl<sub>4</sub>)tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (<sup>37</sup>Cl) purity of ≥95%. The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

<b><u>PRODUCT CODE</u></b>	<b><u>LOT NUMBER</u></b>
EPA-1613CS1	13CS11021
EPA-1613CS2	13CS21021
EPA-1613CS3	13CS31021
EPA-1613CS4	13CS41021
EPA-1613CS5	13CS51021
EPA-1613CSL	13CSL1021
EPA-1613CS0.5	13CS0.51021

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

### INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

### HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to the quantitative components in this product. A maximum combined percent relative uncertainty of  $\pm 20\%$  has been assigned to the semi-quantitative components in this product.

### TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Table A: CS3WT; Quantitative Components and Concentrations (ng/mL, ± 5%, in nonane/4.5% toluene)**

Compound	Designation <sup>a</sup>	Acronym	CAS #	Concentration (ng/mL)
<b>Native PCDDs:</b>				
2,3,7,8-Tetrachlorodibenzo- <i>p</i> -dioxin		2,3,7,8-TCDD	1746-01-6	10.0
1,2,3,7,8-Pentachlorodibenzo- <i>p</i> -dioxin		1,2,3,7,8-PeCDD	40321-76-4	50.0
1,2,3,4,7,8-Hexachlorodibenzo- <i>p</i> -dioxin		1,2,3,4,7,8-HxCDD	39227-28-6	50.0
1,2,3,6,7,8-Hexachlorodibenzo- <i>p</i> -dioxin		1,2,3,6,7,8-HxCDD	57653-85-7	50.0
1,2,3,7,8,9-Hexachlorodibenzo- <i>p</i> -dioxin	Last HxCDD <sup>b</sup>	1,2,3,7,8,9-HxCDD	19408-74-3	50.0
1,2,3,4,6,7,8-Heptachlorodibenzo- <i>p</i> -dioxin	Last HpCDD	1,2,3,4,6,7,8-HpCDD	35822-46-9	50.0
Octachlorodibenzo- <i>p</i> -dioxin		OCDD	3268-87-9	100
<b>Native PCDFs:</b>				
2,3,7,8-Tetrachlorodibenzofuran		2,3,7,8-TCDF	51207-31-9	10.0
1,2,3,7,8-Pentachlorodibenzofuran		1,2,3,7,8-PeCDF	57117-41-6	50.0
2,3,4,7,8-Pentachlorodibenzofuran		2,3,4,7,8-PeCDF	57117-31-4	50.0
1,2,3,4,7,8-Hexachlorodibenzofuran		1,2,3,4,7,8-HxCDF	70648-26-9	50.0
1,2,3,6,7,8-Hexachlorodibenzofuran		1,2,3,6,7,8-HxCDF	57117-44-9	50.0
1,2,3,7,8,9-Hexachlorodibenzofuran		1,2,3,7,8,9-HxCDF	72918-21-9	50.0
2,3,4,6,7,8-Hexachlorodibenzofuran		2,3,4,6,7,8-HxCDF	60851-34-5	50.0
1,2,3,4,6,7,8-Heptachlorodibenzofuran	First HpCDF <sup>c</sup>	1,2,3,4,6,7,8-HpCDF	67562-39-4	50.0
1,2,3,4,7,8,9-Heptachlorodibenzofuran	Last HpCDF	1,2,3,4,7,8,9-HpCDF	55673-89-7	50.0
Octachlorodibenzofuran		OCDF	39001-02-0	100
<b>Mass-Labelled PCDDs:</b>				
2,3,7,8-Tetrachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -OCDD	114423-97-1	200
<b>Mass-Labelled PCDFs:</b>				
2,3,7,8-Tetrachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro( <sup>13</sup> C <sub>12</sub> )dibenzofuran		<sup>13</sup> C <sub>12</sub> -1,2,3,4,7,8,9-HpCDF	109719-94-0	100
<b>Cleanup Standard:</b>				
2,3,7,8-( <sup>37</sup> Cl <sub>4</sub> )Tetrachlorodibenzo- <i>p</i> -dioxin		<sup>37</sup> Cl <sub>4</sub> -2,3,7,8-TCDD	85508-50-5	10.0
<b>Internal Standards:</b>				
1,2,3,4-Tetrachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,4-TCDD	114423-99-3	100
1,2,3,7,8,9-Hexachloro( <sup>13</sup> C <sub>12</sub> )dibenzo- <i>p</i> -dioxin		<sup>13</sup> C <sub>12</sub> -1,2,3,7,8,9-HxCDD	109719-82-6	100

<sup>a</sup> First/Last eluting isomer for the specified homologue group (see Table B for additional Window Definers).

<sup>b,c</sup> – see Table B for footnote.



**Table B: CS3WT; Semi-Quantitative Components and Concentrations (ng/mL, ± 20%, in nonane/4.5% toluene)**

Compound	Designation <sup>a</sup>	Acronym	CAS #	Concentration (ng/mL)
<b>PCDD Window Definers:</b>				
1,3,6,8-Tetrachlorodibenzo- <i>p</i> -dioxin	First TCDD	1,3,6,8-TCDD	33423-92-6	10.0
1,2,8,9-Tetrachlorodibenzo- <i>p</i> -dioxin	Last TCDD	1,2,8,9-TCDD	62470-54-6	10.0
1,2,4,6,8-/1,2,4,7,9-Pentachlorodibenzo- <i>p</i> -dioxin	First PeCDD	1,2,4,6,8-PeCDD	71998-76-0	50.0 <sup>d</sup>
		1,2,4,7,9-PeCDD	82291-37-0	
1,2,3,8,9-Pentachlorodibenzo- <i>p</i> -dioxin	Last PeCDD	1,2,3,8,9-PeCDD	71925-18-3	50.0
1,2,4,6,7,9-Hexachlorodibenzo- <i>p</i> -dioxin	First HxCDD	1,2,4,6,7,9-HxCDD	39227-62-8	50.0
1,2,3,4,6,7,9-Heptachlorodibenzo- <i>p</i> -dioxin	First HpCDD	1,2,3,4,6,7,9-HpCDD	58200-70-7	50.0
<b>PCDF Window Definers:</b>				
1,3,6,8-Tetrachlorodibenzofuran	First TCDF	1,3,6,8-TCDF	71998-72-6	10.0
1,2,8,9-Tetrachlorodibenzofuran	Last TCDF	1,2,8,9-TCDF	70648-22-5	10.0
1,3,4,6,8-Pentachlorodibenzofuran	First PeCDF	1,3,4,6,8-PeCDF	83704-55-6	50.0
1,2,3,8,9-Pentachlorodibenzofuran	Last PeCDF	1,2,3,8,9-PeCDF	83704-54-5	50.0
1,2,3,4,6,8-Hexachlorodibenzofuran	First HxCDF	1,2,3,4,6,8-HxCDF	69698-60-8	50.0
<b>2,3,7,8-TCDD Resolution Testing Isomers:</b>				
1,2,3,4-Tetrachlorodibenzo- <i>p</i> -dioxin		1,2,3,4-TCDD	30746-58-8	5.00
1,2,3,7-/1,2,3,8-Tetrachlorodibenzo- <i>p</i> -dioxin		1,2,3,7-TCDD	67028-18-6	5.00 <sup>d</sup>
		1,2,3,8-TCDD	53555-02-5	
1,2,3,9-Tetrachlorodibenzo- <i>p</i> -dioxin		1,2,3,9-TCDD	71669-26-6	10.0

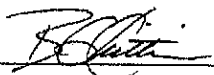
<sup>a</sup> First/Last eluting isomer for the specified homologue group (see Table A for additional Window Definers).

<sup>b</sup> 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD on a 60 m DB-5 column. Use 1,2,3,7,8,9-HxCDD (see Table A) and 1,2,3,4,6,7,9-HpCDD to approximate the end of the HxCDD window.

<sup>c</sup> 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF on a 60 m DB-5 column. Use 1,2,3,4,6,7,8-HpCDF (see Table A) to approximate the end of the HxCDF window.

<sup>d</sup> Total concentration of isomers.

Certified By: \_\_\_\_\_



B.G. Chittim, General Manager

Date: 11/05/2021  
(mm/dd/yyyy)

**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

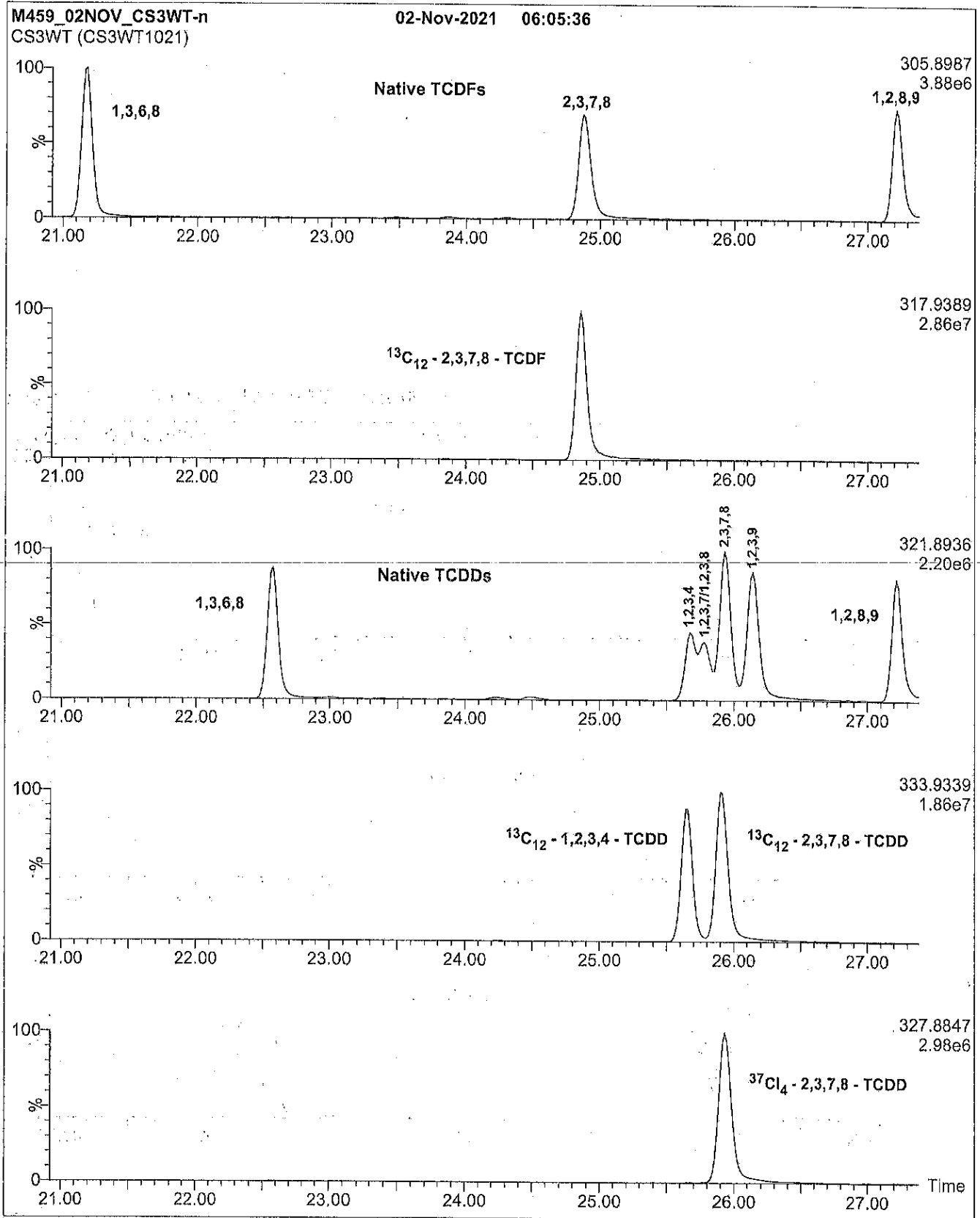
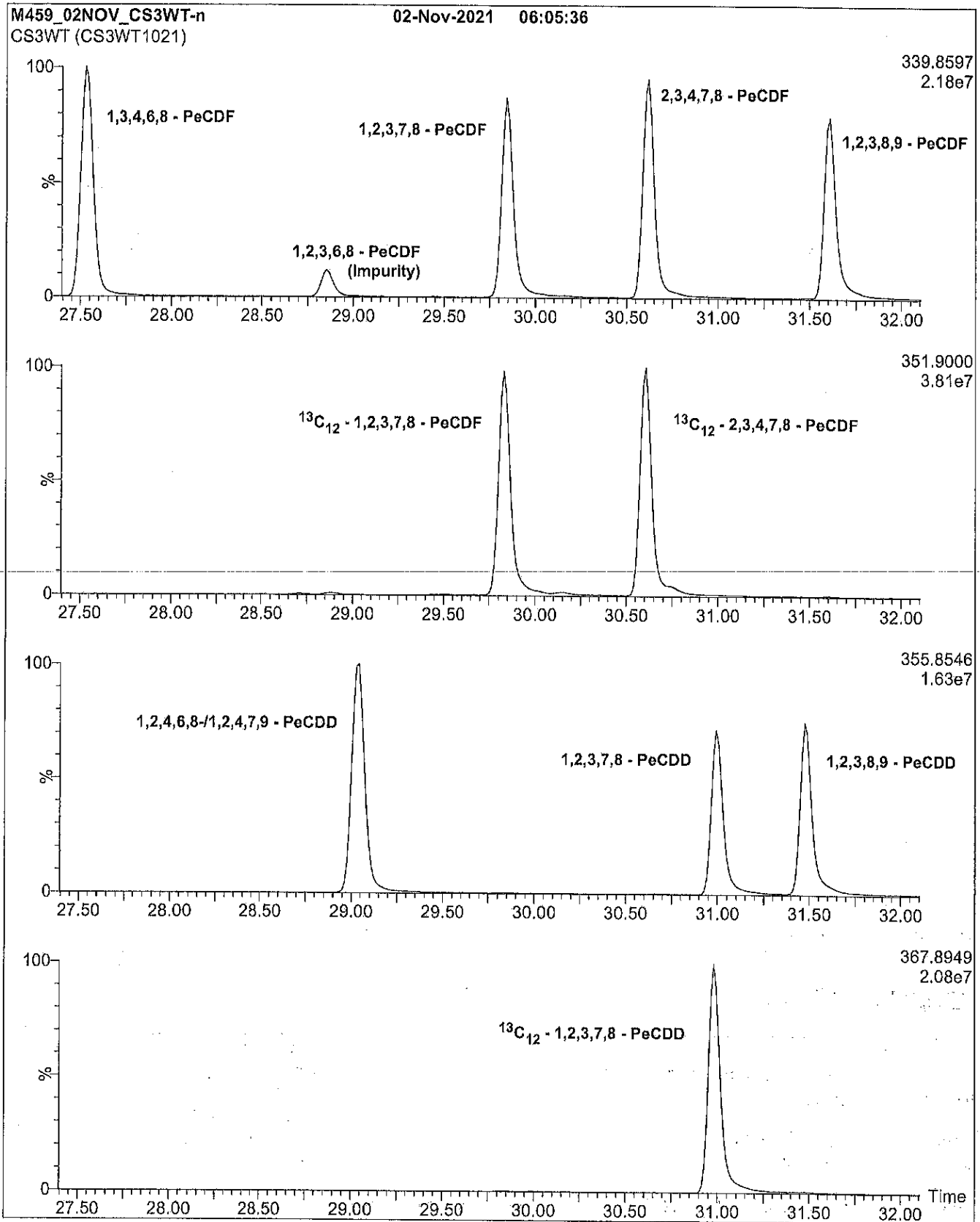
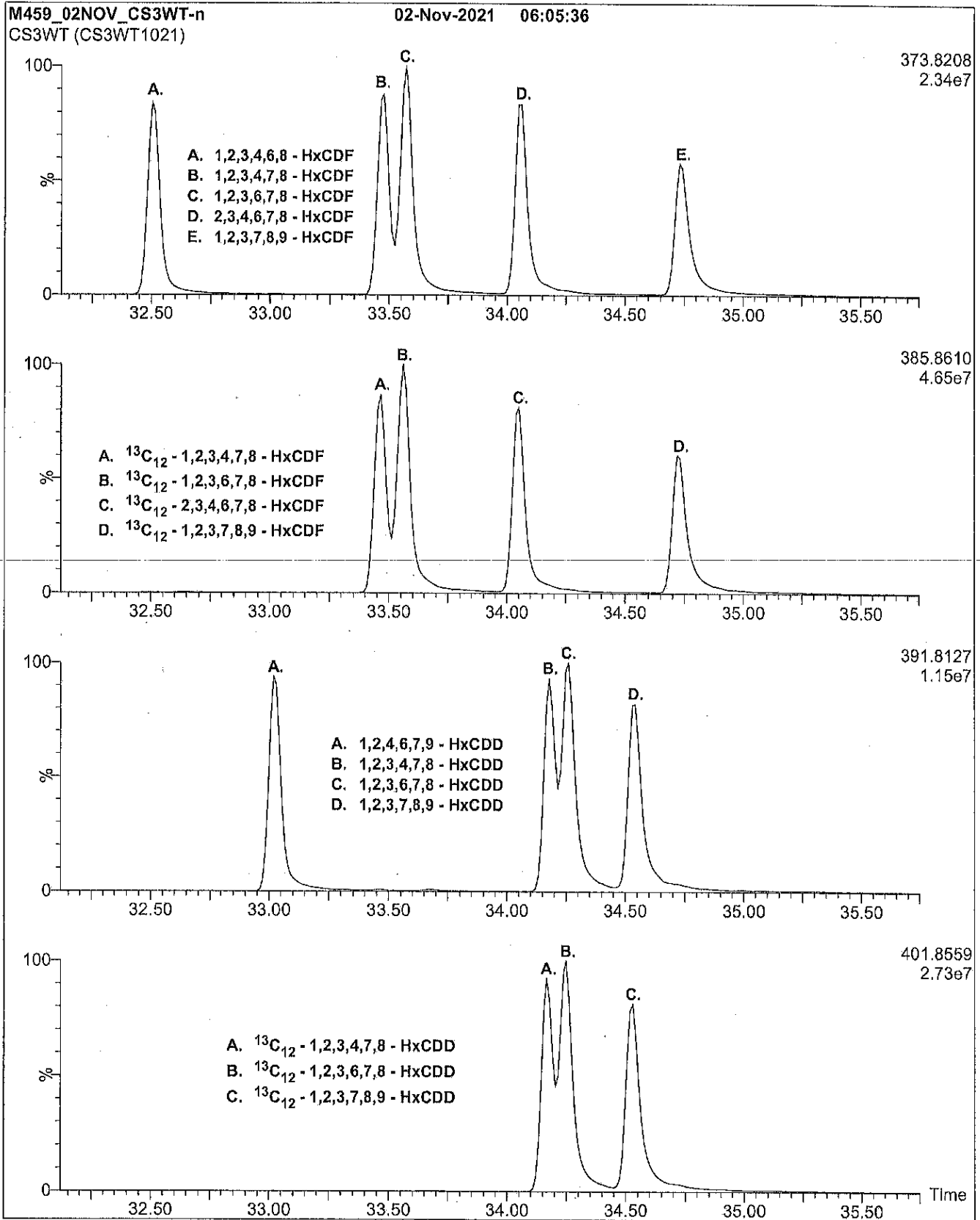


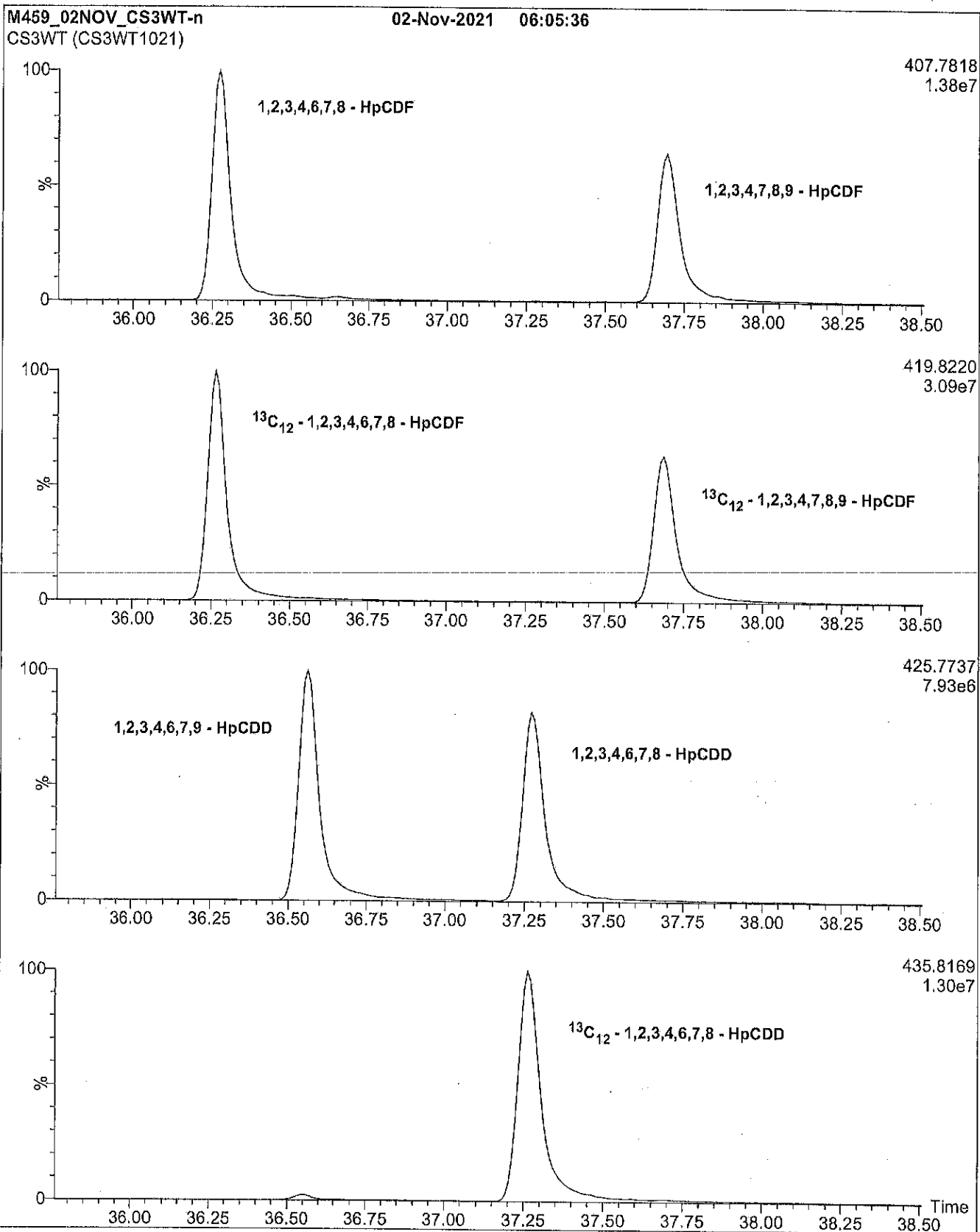
Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)



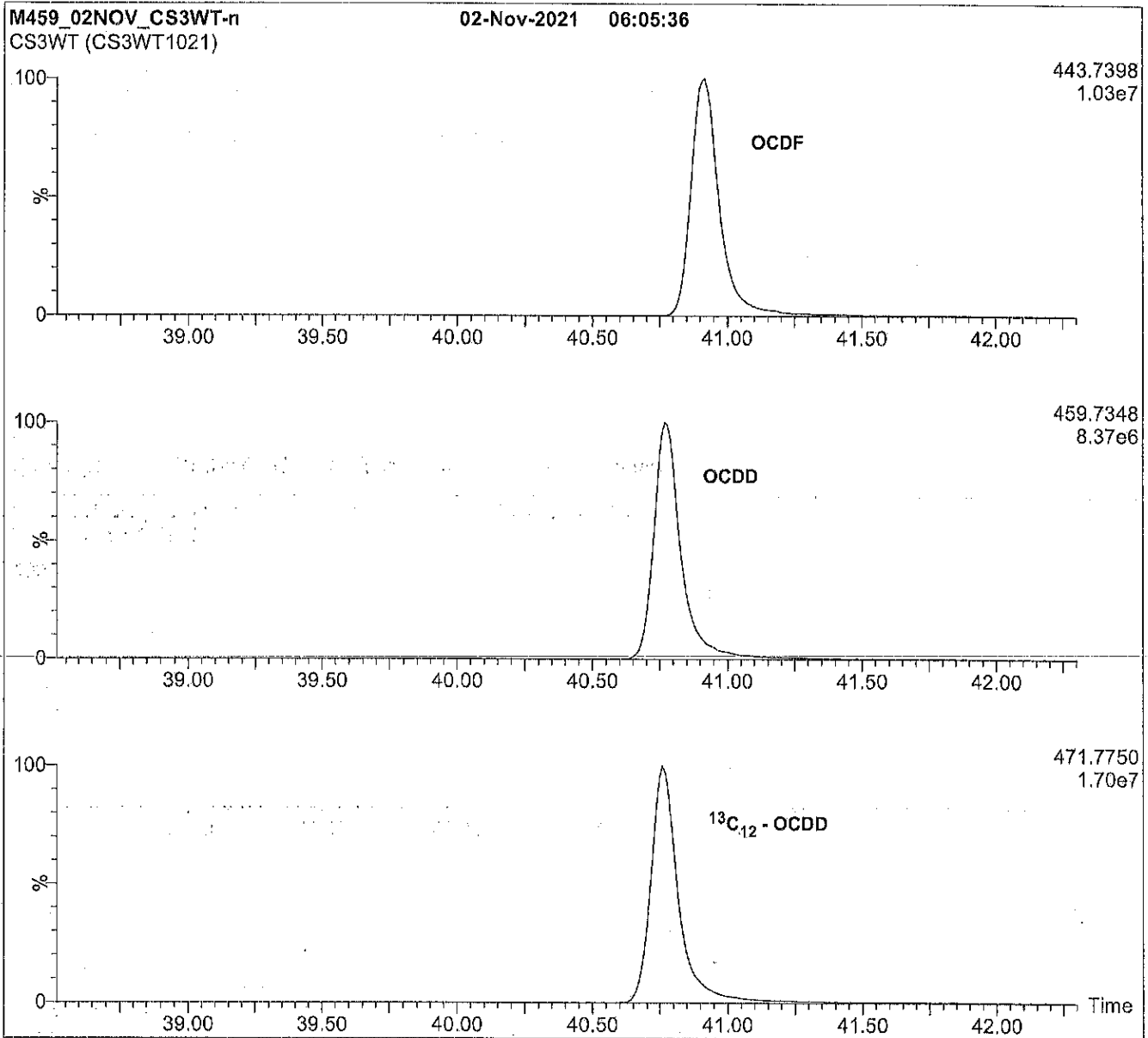
**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



**Figure 1:** CS3WT; HRGC/HRMS Data (60 m DB-5 Column)



**Conditions for Figure 1:**

Agilent 6890N HRGC  
Autospec Ultima HRMS

**Chromatographic Conditions:**

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1.4 mL/min  
Injector: 280°C (Splitless Injection)

Ionization: EI+  
Detector: 280°C

SIR at 10,000 mass resolving power

Oven: 150°C (1 min)  
12°C/min to 200°C  
3°C/min to 235°C  
235°C (8 min)  
8°C/min to 310°C  
310°C (8 min)

# Recipient Copy

# CHAIN-OF-CUSTODY RECORD

COC No. 15570

Order Number: CB014985

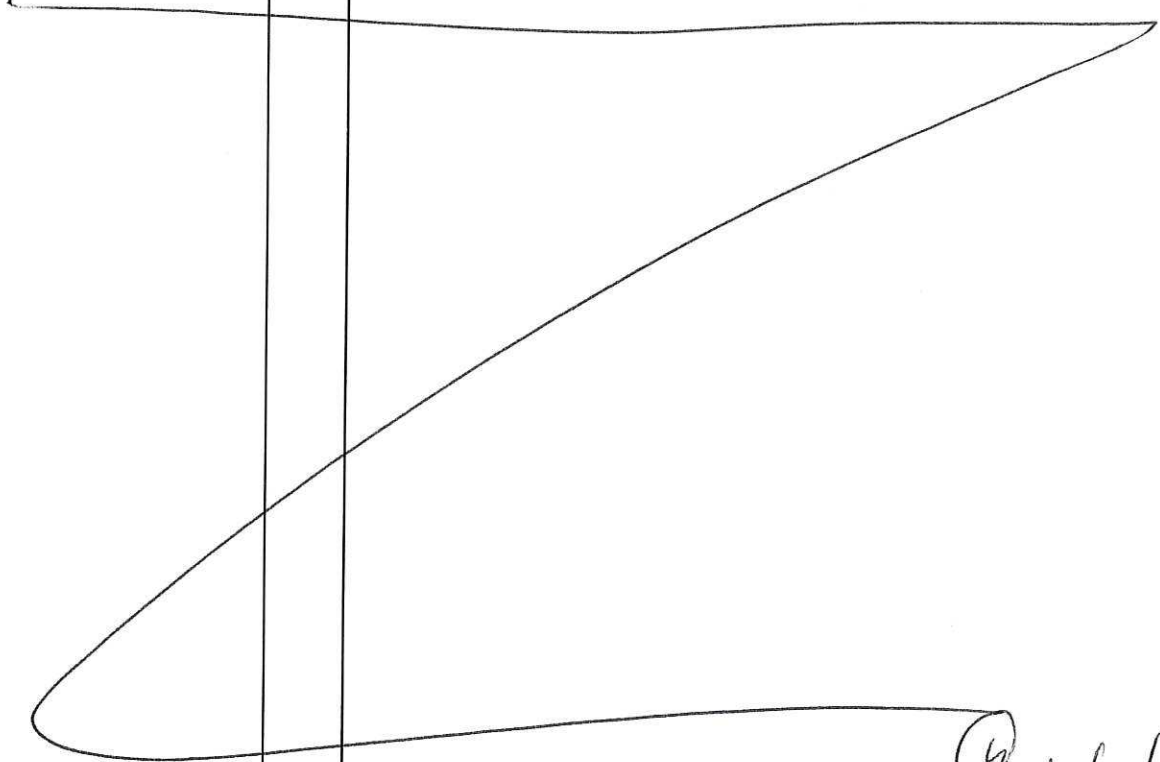
Date Shipped: 12/12/2022

AirBill No(s):

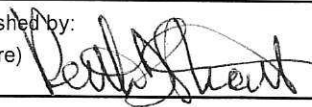

From: QATS LABORATORY  
2700 CHANDLER AVENUE, BLDG. B  
LAS VEGAS, NV 89120  
PHONE: 1-702-895-8712

To: SUE DUNNIHOO  
ANALYTICAL RESOURCES INC.  
4611 S. 134TH PLACE SUITE 100  
TUKWILA WA 98168  
250-695-6207

519204142631

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
K011477 PSRM0168	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
K011478 PSRM0169	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
K011479 PSRM0171	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
				
<p>12/12/2022</p> <p>PUGET SOUND SRM FOR DUWAMISH AOC4 PROJECT.</p>				

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature) 	Date/Time (1400) 12/12/2022	Received by: (Signature) 	Date/Time 12/12/2022 11:15
Custody Seal(s): <u>Present</u> /Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time



Analytical Standard Record  
Standard ID: L002084

Printed: 3/2/2023 8:59:18AM

Description:	Dioxin ISC Mix	Expires:	24-Feb-2024
Standard Type:	Other	Prepared:	24-Feb-2023
Solvent:	Nonane	Prepared By:	Peter Kepler
Final Volume (mls):	1	Department:	HRGCMS
Vials:	1	Last Edit:	24-Feb-2023 11:19 by PK
Vendor:	NA	Lot #:	1234
Vendor Catalog #:			

**Comments**

Stock: H9902: 2378-TCDF, 3467-TCDF, 2348-TCDF, 1278-TCDD, 2378-TCDD. each @ 1000 ng/mL

10 ul to 1 mL FV in Nonane. Final Conc = 10 ng/mL. Analytes and units not available in Element.

Analyte	CAS Number	Concentration	Units
2,3,7,8-TCDF	51207-31-9	10	ug/mL
2,3,7,8-TCDD	1746-01-6	10	ug/mL