



Analytical Resources, LLC
Analytical Chemists and Consultants

08 February 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.

<u>Associated Work Order(s)</u>	<u>Associated SDG ID(s)</u>
22L0473	N/A

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.



22L0473

AOC4 Phase 3 and Phase 2 archive sample analyses request

Amara Vandervort <amarav@windwardenv.com>

Thu 12/15/2022 6:52 PM

To: Sue Dunninghoo <lmsadm@arilabs.com>

Cc: Ali Judkins <ajudkins@anchorqea.com>

Hi Sue,

We would like to have the following samples put into the queue for AOC4, please. Let me know if you have any questions. Thank you!

PLEASE pull these
AND LOG IN NEW JOB

Sample ID	Date Collected	ARI WO#	PCBs	Select SVOCs	Dioxins/Furans	TOC/Percent Solids	Metals
✓14 LDW22-SC767A	12/9/22 1240	22L0254-17	x	-	-	x	-
✓15 LDW22-SC767B	12/9/22 1240	22L0254-18	x	PAHs	-	x	Hg
✓16 LDW22-SC767C	12/9/22 1240	22L0254-19	x	PAHs	-	x	Hg
✓17 LDW22-SC767D	12/9/22 1240	22L0254-20	x	PAHs	-	x	Hg
✓18 LDW22-SC767E	12/9/22 1240	22L0254-21	x	PAHs	-	x	Hg
✓19 LDW22-SC767F	12/9/22 1240	22L0254-22	x	PAHs	-	x	Hg
✓1 LDW22-IT814B	12/9/22 1240	22L0254-14	x	-	-	x	-
✓2 LDW22-IT814C	12/9/22 1240	22L0254-15	x	-	-	x	-
✓3 LDW22-IT814D	12/9/22 1240	22L0254-16	x	-	-	x	-
✓ LDW21-IT699AX	8/2/2021	21H0033-01	x	-	-	x	-
✓ LDW21-IT632A	7/12/2021	21G0223-16	x	-	Yes	x	-

pull 2 jars
only 1 jar

Amara Vandervort

Associate

Direct line: 206-812-5415

E-mail: amarav@windwardenv.com | www.windwardenv.com

200 First Avenue West, Suite 500 | Seattle, WA 98119



Thanks

Sue

PRIVILEGED & CONFIDENTIAL, ATTORNEY-CLIENT/WORK PRODUCT PRIVILEGE

1 of 3 26030 / ~~22L0473~~ 22L0473 Archive
 CHAIN-OF-CUSTODY/TEST REQUEST FORM No 4024

Project/Clien Name: Puwamish AOC4
 Project Number: 180067-0202
 Contact Name: Amara Vundervert
 Sampled By: Windward

Ship to: ARI
 Attn: Sue Bunnice Shipping Date: 7/12/2021
 Shipper: Coastal Airbill Number: _____
 Form filed out by: Nicolas Eckhardt Turnaround requested: STO

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						
7/12/2021	0645	LDW21-IT665A	4	Sediment	X						
	↓	LDW21-IT665D	4		X						
	0645	LDW21-IT665F	4		X						
	0732	LDW21-IT664A	4		X						
	↓	LDW21-IT664D	4		X						
	0732	LDW21-IT664E	4		X						
	0645	LDW21-IT665G	3		X						
	0809	LDW21-IT653A	4		X						
	↓	LDW21-IT653D	4		X						
	↓	LDW21-IT653F	4		X						
	0809	LDW21-IT653G	4		X						
7/12/2021	0844	LDW21-IT652A	4	Sediment	X						
Total Number of Containers			47	Purchase Order / Statement of Work # CLF-052021-ARI							
1) Released by:			1) Rec'd by:		2) Released by:			2) Rec'd by:			
Print name: <u>Suzanne Reppinger</u>			Print name: <u>[Signature]</u>		Print name: _____			Print name: _____			
Signature: <u>[Signature]</u>			Company: <u>Windward</u>		Signature: _____			Company: _____			
Company: <u>Windward</u>			Date/Time: <u>7/12/21 1700</u>		Signature: _____			Company: _____			
Date/Time: <u>7/12/21 1700</u>			Date/Time: <u>7/12/21 1700</u>		Date/Time: _____			Date/Time: _____			

* Distribution: White copies accompany shipment; yellow retained by consignee.



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:

Project/Client Name: Duwamish ACCY Ship to: ARI
 Project Number: 180067-02.02 Attn: Sue Punihoo Shipping Date: 7/12/2021
 Contact Name: Amira Vandervort Shipper: Courier Airbill Number: ---
 Sampled By: Windward Form filled out by: Nicolas Eckhardt 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)]
					Active						
7/12/2021	0844	LDW21-IT652 D	4	Sediment	X						
	↓	LDW21-IT652 F	4		X						
	0844	LDW21-IT652 F-GS1	1		X						
	0928	LDW21-IT632 A	4		X						
	↓	LDW21-IT632 D	4		X						
	↓	LDW21-IT632 E	4		X						
	↓	LDW21-IT632 F	4		X						
	0928	LDW21-IT632-GS1	1		X						
	1111	LDW21-IT644 A	3		X						
	↓	LDW21-IT644 B	3		X						
	↓	LDW21-IT644 C	3		X						
7/12/2021	1111	LDW21-IT644 D	3	Sediment	X						
Total Number of Containers			38	Purchase Order / Statement of Work # CLF-052021-ARI							

1) Released by: Print name: <u>Suzanne Rippe</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>7/12/21 1700</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>07/12/2021 1700</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Company: Date/Time:
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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:

double sided →

3 of 3 216-0223/

2260473

Archive

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 4021

Project/Client Name: Duwamish ACCY
 Project Number: 180667-02.02
 Contact Name: Anara Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Sue Durnihoe Shipping Date: 7/12/2021
 Shipper: Courier Airbill Number: —
 Form filled out by: Nicolas Eckhardt 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 numbers!)
					Archive						
7/16/2021	1111	LDW21-IT644 E	3	Sediment	X						
↓	1111	LDW21-IT644 F	3	↓	X						
↓	1111	LDW21-IT644-GS1	1	↓	X						
Total Number of Containers			7	Purchase Order / Statement of Work # CLF-052021-ARI							
1) Released by: Print name: <u>Suzanne Replinger</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>7/12/21 1700</u>			1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>07/16/2021 1700</u>			2) Released by:			2) Rec'd by:		
						Print name:			Company:		
						Signature:			Date/Time:		
						Company:			Date/Time:		

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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:

AOC4 samples received on 7/15/21

Brandi Quinlisk <brandiq@windwardenv.com>

Sun 7/18/2021 12:56 PM

To: Sue Dunning <limsadm@arilabs.com>

Cc: Amara Vandervort <amarav@windwardenv.com>; Cindy Fields <cfields@anchorqea.com>

Hi Sue,

The three samples shown below were sent to you on July 15th for analysis. Can you please put all of the samples noted below on hold and **do not analyze** at this time.

- LDW21-SC621B
- LDW21-SC621C
- LDW21-SC621E

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: Dunnish AOC4 Site: ARI 3103

Project Number: 18007-0202 Lab: SUE DUNNING Shipping Date: 7/15/21

Client Name: Amara Vandervort Analyst: Amara A-01# Number: ---

Sampled By: Amara Date Filled out by: LDW21 SC621E Turnaround Required: STD

Sample Collection Date (MM/DD/YY)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Field Occurrence (Yes, test is required)						Comments/Instructions for log/worksheet
					PCBs	PAHs	Aroclors	PCPPs	PCB/PAH	PCB/PAH	
7/15/21		LDW21-SC621B	3		X	X	X				
		LDW21-SC621C	3		X	X	X				
7/15/21		LDW21-SC621E	3		X	X	X				

Also, can you please revise these two sample IDs as follows:

- Received 7/12: LDW21-IT652F-GS1, please revise to LDW21-IT652-GS1
- Received 7/13: LDW21-IT659G-GS1, please revise to LDW21-IT659-GS1

Thank you so much,
Brandi

Brandi Quinlisk
Database Manager

200 1st Avenue W., Suite 500 | Seattle, WA 98119
Direct: 206-812-5408

brandiq@windwardenv.com | www.windwardenv.com



1 of 2 ^{226204/} ^{22L0473} CHAIN-OF-CUSTODY/TEST REQUEST FORM Tier 2 No 3265

Project/Client Name: Ac04 U12 Phase 3 Ship to: ARI
 Project Number: 1600067-02.01 Attn: Sue Dunahoo Shipping Date: 12/9/2022
 Contact Name: Amara Vandergort Shipper: Molner Airbill Number: ---
 Sampled By: Windward 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 (for tag number(s))
					Active						
12/9/22	0756	LDW22-SC778A	3	Sediment	X						
	0756	LDW22-SC778B	3		X						
	0809	LDW22-SC779K	3		X						
	0809	LDW22-SC779L	3		X						
	0809	LDW22-SC779M	3		X						
	0852	LDW22-SC777J	3		X						
		LDW22-SC777K	3		X						
		LDW22-SC777L	3		X						
	0852	LDW22-SC777M	3		X						
	0958	LDW22-SC759A	3		X						
	1144	LDW22-IT009H	4		X						
12/9/22	1144	LDW22-IT009I	4	Sediment	X						
Total Number of Containers			38	Purchase Order / Statement of Work # <u>APT-110222-AC04-ARI</u>							
1) Released by: <u>Amara Vandergort</u>			1) Rec'd by: <u>YARE</u>		2) Released by: <u>YARE</u>			2) Rec'd by: <u>Joseph Walter</u>			
Signature: <u>[Signature]</u>			Company: <u>YA YA SAFETY</u>		Signature: <u>[Signature]</u>			Company: <u>AR, LLC</u>			
Date/Time: <u>12/9/2022 16:15</u>			Date/Time: <u>12/9/22 4:15AM</u>		Date/Time: <u>12/9/22 16:40</u>			Date/Time: <u>12/9/22 16:40</u>			

* Distribution: White copies accompany shipment; yellow retained by consignor.

Windward
environmental LLC
 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:

Double sided →

2 of 2 ^{2510059/} 22L0473

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tier 2
No 3268

Project/Client Name: ARL HR Phase 3
 Project Number: 18C067-02-04
 Contact Name: Amara Vanderhoff
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Durnilico Shipping Date: 12/9/22
 Shipper: Novier Airbill Number: —
 Form filled out by: AVIBQ Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Aroclor	Tests Requested (check tests) required						Comments / Instructions (lar tag numbers)
12/9/22	1240	L0W22-1T814A	3	Sediment	X							
		L0W22-1T814B	3		X							
		L0W22-1T814C	3		X							
	1240	L0W22-1T814D	3		X							
	1245	L0W22-S0767A	3		X							
		L0W22-S0767B	3		X							
		L0W22-S0767C	3		X							
		L0W22-S0767D	3		X							
		L0W22-S0767E	3		X							
	1245	L0W22-S0767F	3	Sediment	X							
Total Number of Containers			30	Purchase Order / Statement of Work # <u>APT-110222-0004-ARL</u>								

1) Released by: <u>Amara Vanderhoff</u> Print name: <u>Amara Vanderhoff</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>12/9/22 16:15</u>	1) Rec'd by: <u>YARE</u> Print name: <u>YARE</u> Signature: <u>[Signature]</u> Company: <u>VA YA SAFETY</u> Date/Time: <u>12/9/22 4:15</u>	2) Released by: <u>YARE</u> Print name: <u>YARE</u> Signature: <u>[Signature]</u> Company: <u>VA YA SAFETY</u> Date/Time: <u>12/9/22 16:40</u>	2) Rec'd by: <u>Jacob Swatte</u> Print name: <u>Jacob Swatte</u> Signature: <u>[Signature]</u> Company: <u>AR, LLC</u> Date/Time: <u>12/9/22 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:

double sided →

21H0003/
1 of 3

22L0473

ARCHIVE

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 4120

Project/Client Name: Duwanish Acry
 Project Number: 180067-02-02
 Contact Name: Anna Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Sue Dunning Shipping Date: 8/31/2021
 Shipper: Hand delivered Airbill Number: _____
 Form filled out by: Mcolas Eckhardt Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample identification	Volume of Sample / # of Containers	Matrix	Archive	Test(s) Requested (check test(s) required)						Comments / Instructions (jar tag number(s))
8/2/21	10:24	LDW21-IT699AX	3	Sediment	X							
	10:24	LDW21-IT699GS1X	1		X							
	10:44	LDW21-IT699AY	3		X							
	↓	LDW21-IT699BY	3		X							
	10:44	LDW21-IT699GS1Y	1		X							
	11:53	LDW21-IT699AZ	3		X							
		LDW21-IT699BZ	3		X							
		LDW21-IT699CZ	3		X							
		LDW21-IT699DZ	3		X							
		LDW21-IT699EZ	3		X							
	↓	LDW21-IT699FZ	3		X							
8/2/21	11:53	LDW21-IT699GS1Z	1		X							
Total Number of Containers			30	Purchase Order / Statement of Work # <u>CLF-052021-ARI</u>								

1) Released by: Print name: <u>Brandi Quintise</u> Signature: <u>Brandi Quintise</u> Company: <u>Windward</u> Date/Time: <u>8/3/21 10:59</u>	1) Rec'd by: <u>Sebastian</u> Company: <u>ARI</u> Date/Time: <u>08/03/21 10:59</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
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200 1st Ave W, Suite 500
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 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:

2140033 /
 2 of 3

2260473

Archive

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 4122

Project/Client Name: Duwamish AOCY
 Project Number: 180067-02.02
 Contact Name: Amara Vandevort
 Sampled By: Windward

Ship to: ARI
 Attn: Sue Dunni hoo Shipping Date: 8/3/2021
 Shipper: Windward Hand Delivered Airbill Number: ---
 Form filled out by: Nicolas Eckhardt 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						
8/2/2021	11:53	LDW21-IT699 GZ	3	Sediment	X						
	11:53	LDW21-IT699 GS2Z	1		X						
	12:15	LDW21-IT703 AX	3		X						
		LDW21-IT703 BX	3		X						
		LDW21-IT703 CX	3		X						
	12:15	LDW21-IT703 DX	3		X						
	15:13	LDW21-IT621A	3		X						
		LDW21-IT621B	3		X						
		LDW21-IT621C	3		X						
		LDW21-IT621D	3		X						
		LDW21-IT621E	3		X						
8/2/2021	15:13	LDW21-IT621F	3	Sediment	X						
Total Number of Containers			34	Purchase Order / Statement of Work # CLF-052021-ARI							

1) Released by: Print name: <u>Brandi Quinlan</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>8/3/21 10:59</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>8/3/2021 10:59</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
---	---	--	---

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200 1st Ave W, Suite 500
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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:

double sided →

2110033/
3 of 3

22L0473
CHAIN-OF-CUSTODY/TEST REQUEST FORM

ARCHIVE

No 4121

Project/Client Name: Duwamish Area 4
 Project Number: 180067-02.02
 Contact Name: Amy Vanderhoff
 Sampled By: Windward

Ship to: ARI
 Attn: Sue Dunning Shipping Date: 8/3/2021
 Shipper: Hand delivered Airbill Number: ---
 Form filled out by: Bradi Quinlan Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Archive	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
8/2/2021	15:13	LDW21-1T621G	3	Sediment	X							
	15:13	LDW21-1T621G51	1		X							
	15:13	LDW21-1T621G52	1		X							
	16:00	LDW21-1T703AY	3		X							
		LDW21-1T703BY	3		X							
		LDW21-1T703CY	3		X							
		LDW21-1T703DY	3		X							
		LDW21-1T703EY	3		X							
		LDW21-1T703FY	3		X							
8/2/2021	16:00	LDW21-1T703GY	3	Sediment	X							
Total Number of Containers			26	Purchase Order / Statement of Work # <u>CLF-052021-ARI</u>								
1) Released by: Print name: <u>Bradi Quinlan</u> Signature: <u>Bradi Quinlan</u> Company: <u>Windward</u> Date/Time: <u>8/3/21 10:59</u>			1) Rec'd by: <u>Sue Dunning</u> Company: <u>ARI</u> Date/Time: <u>08/03/2021 10:59</u>			2) Released by: Print name: Signature: Company: Date/Time:			2) Rec'd by: Print name: Signature: Company: Date/Time:			

* 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:



Anchor QEA, LLC

1201 3rd Ave, Suite 2600

Seattle, WA 98101

Project: AOC4 UR Phase 3

Project Number: 180067-02.03

Project Manager: Ali Judkins

Reported:

02/08/2023 16:28

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0473-01	LDW22-IT814B	Solid	12/09/22 12:40	12/09/22 16:40
22L0473-02	LDW22-IT814C	Solid	12/09/22 12:40	12/09/22 16:40
22L0473-03	LDW22-IT814D	Solid	12/09/22 12:40	12/09/22 16:40
22L0473-04	LDW22-SC767A	Solid	12/09/22 12:45	12/09/22 16:40
22L0473-05	LDW22-SC767B	Solid	12/09/22 12:45	12/09/22 16:40
22L0473-06	LDW22-SC767C	Solid	12/09/22 12:45	12/09/22 16:40
22L0473-07	LDW22-SC767D	Solid	12/09/22 12:45	12/09/22 16:40
22L0473-08	LDW22-SC767E	Solid	12/09/22 12:45	12/09/22 16:40
22L0473-09	LDW22-SC767F	Solid	12/09/22 12:45	12/09/22 16:40
22L0473-10	LDW21-IT699AX	Solid	08/02/21 10:24	12/09/22 16:40
22L0473-11	LDW21-IT632A	Solid	07/12/21 09:28	12/09/22 16:40



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

Project: AOC4 UR Phase 3
Project Number: 180067-02.03
Project Manager: Ali Judkins

Reported:
08-Feb-2023 16:28

Case Narrative

Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Work Order: 22L0473

Sample receipt

Samples as listed on the preceding page were received 09-Dec-2022 16:40 under ARI work order 22L0473. For details regarding sample receipt, please refer to the Cooler Receipt Form.

This data set reports 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.

Initial and continuing calibrations were within method requirements.

Labeled internal standard areas were within limits.

The cleanup surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits, with response and EMPC response below the reporting limit. 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 batch 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. The duplicate is reported under work order 22L0383.



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: 22L0473
 Client: Anchor QEA, LLC
 Project: AOC4 UR Phase 3
 Matrix: Sediment Laboratory ID: 22L0473-11 A File ID: 23020720
 Sampled: 07/12/21 09:28 Prepared: 01/09/23 15:50 Analyzed: 02/08/23 00:46
 % Solids: 65.83 Preparation: EPA 1613 Initial/Final: 15.22 g Wet / 20 uL
 Result Basis: Dry Sequence: SLB0072 Calibration: GB00010
 Batch: BLA0079 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	0.747	0.655-0.886	0.177	0.998	2.99	ng/kg	
1746-01-6	2,3,7,8-TCDD	1	0.701	0.655-0.886	0.181	0.998	0.776	ng/kg	J
57117-41-6	1,2,3,7,8-PeCDF	1	1.487	1.318-1.783	0.185	0.998	1.56	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.728	1.318-1.783	0.178	0.998	2.77	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.482	1.318-1.783	0.395	0.998	2.84	ng/kg	B
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.258	1.054-1.426	0.118	0.998	7.01	ng/kg	B
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.132	1.054-1.426	0.112	0.998	3.52	ng/kg	B
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.216	1.054-1.426	0.120	0.998	4.59	ng/kg	B
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.418	1.054-1.426	0.133	0.998	1.52	ng/kg	B
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.397	1.054-1.426	0.295	0.998	2.69	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.213	1.054-1.426	0.287	0.998	10.1	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.198	1.054-1.426	0.297	0.998	6.88	ng/kg	B
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.016	0.893-1.208	0.158	0.998	51.2	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.940	0.893-1.208	0.212	0.998	5.08	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.023	0.893-1.208	0.386	2.50	241	ng/kg	B
39001-02-0	OCDF	1	0.910	0.757-1.024	0.241	2.50	110	ng/kg	B
3268-87-9	OCDD	1	0.886	0.757-1.024	0.524	9.98	1890	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.998	37.8	ng/kg
41903-57-5	Total TCDD	1	0.000			0.998	10.9	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.998	39.6	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.998	12.2	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.998	73.9	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.998	93.7	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.998	159	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.998	524	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 12.00
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 12.00



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

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0473</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>22L0473-11</u>
Sampled:	<u>07/12/21 09:28</u>	Prepared:	<u>01/09/23 15:50</u>
Solids Wt%:	<u>65.83</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLB0072</u>
Batch:	<u>BLA0079</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020720</u>
		Analyzed:	<u>02/08/23 00:46</u>
		Initial/Final:	<u>15.22 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		0.796	0.655-0.886	0.162	57.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.769	0.655-0.886	0.182	71.9	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.541	1.318-1.783	0.157	68.7	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.518	1.318-1.783	0.163	68.4	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.618	1.318-1.783	0.107	74.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.489	0.434-0.587	0.123	68.5	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.504	0.434-0.587	0.120	67.6	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.509	0.434-0.587	0.128	67.4	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.500	0.434-0.587	0.140	67.0	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.275	1.054-1.426	0.194	77.7	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.247	1.054-1.426	0.188	73.6	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.451	0.374-0.506	0.135	58.2	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.445	0.374-0.506	0.155	59.4	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.075	0.893-1.208	0.169	63.5	23 - 140 %	
13C12-OCDD		0.922	0.757-1.024	0.137	59.0	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.058	61.1	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
 Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
 Printed: Wednesday, February 08, 2023 09:32:35 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, 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	25.882	1.001	2.879e3	3.853e3	0.876	0.747	0.770	1013	1073	4.53e4	5.92e4	44.8	55.2	NO	bd	bd	1.498
12378-PeCDF	30.037	1.000	2.089e3	1.405e3	0.845	1.487	1.550	1253	906	3.23e4	2.23e4	25.8	24.6	NO	bd	dd	0.780
23478-PeCDF	31.385	1.001	4.065e3	2.353e3	0.911	1.728	1.550	1253	906	5.54e4	3.89e4	44.2	43.0	NO	dd	bb	1.390
123478-HxCDF	34.995	1.000	1.054e4	8.379e3	1.182	1.258	1.240	1019	715	1.69e5	1.36e5	166.2	190.5	NO	dd	dd	3.510
234678-HxCDF	35.998	1.000	6.708e3	5.516e3	1.229	1.216	1.240	1019	715	6.86e4	5.18e4	67.3	72.5	NO	MM	bb	2.301
123678-HxCDF	35.140	1.001	5.391e3	4.763e3	1.248	1.132	1.240	1019	715	9.18e4	7.30e4	90.1	102.0	NO	db	dd	1.762
123789-HxCDF	37.000	1.000	2.083e3	1.469e3	1.187	1.418	1.240	1019	715	3.02e4	2.19e4	29.7	30.6	NO	bb	bb	0.761
1234678-HpCDF	38.861	1.000	5.934e4	5.839e4	1.204	1.016	1.050	1060	973	9.55e5	9.61e5	900.9	987.3	NO	bd	bd	25.651
1234789-HpCDF	41.112	1.000	4.878e3	5.188e3	1.165	0.940	1.050	1060	973	6.96e4	7.51e4	65.7	77.2	NO	bb	bd	2.545
OCDF	45.386	1.006	9.141e4	1.004e5	1.186	0.910	0.890	884	868	1.08e6	1.20e6	1219.1	1379.0	NO	bb	bb	54.993
2378-TCDD	26.517	1.001	7.949e2	1.134e3	1.236	0.701	0.770	1122	1246	1.33e4	1.82e4	11.9	14.6	NO	bd	bd	0.389
12378-PeCDD	31.630	1.001	3.173e3	2.141e3	1.087	1.482	1.550	1762	2005	4.89e4	2.94e4	27.7	14.7	NO	bb	bb	1.424
123478-HxCDD	36.120	1.000	3.552e3	2.543e3	0.987	1.397	1.240	1713	1896	5.80e4	4.74e4	33.8	25.0	NO	bd	bd	1.347
123678-HxCDD	36.232	1.000	1.269e4	1.046e4	1.021	1.213	1.240	1713	1896	2.09e5	1.71e5	122.1	90.1	NO	dd	dd	5.055
123789-HxCDD	36.622	1.011	8.403e3	7.011e3	0.985	1.198	1.240	1713	1896	1.43e5	1.15e5	83.5	60.5	NO	bb	bb	3.448
1234678-HpCDD	40.365	1.000	2.398e5	2.343e5	1.253	1.023	1.050	2323	1713	3.74e6	3.62e6	1609.8	2111.7	NO	bd	bd	120.563
OCDD	45.147	1.000	1.441e6	1.627e6	1.103	0.886	0.890	1983	1558	1.80e7	2.04e7	9068.4	13065.3	NO	bb	bb	945.876
13C-2378-TCDF	25.867	1.007	2.273e5	2.855e5	1.768	0.796	0.770	2243	1583	3.57e6	4.42e6	1593.2	2793.2	NO	bb	bb	57.374
13C-12378-PeCDF	30.026	1.169	3.216e5	2.087e5	1.527	1.541	1.550	1728	1472	5.01e6	3.25e6	2900.5	2208.4	NO	bb	bb	68.683
13C-23478-PeCDF	31.363	1.221	3.055e5	2.013e5	1.466	1.518	1.550	1728	1472	4.80e6	3.15e6	2775.9	2139.1	NO	bb	bb	68.368
13C-123478-HxCDF	34.984	0.956	1.499e5	3.063e5	1.054	0.489	0.510	1123	1161	2.44e6	4.92e6	2173.7	4234.4	NO	bd	MM	68.491
13C-123678-HxCDF	35.118	0.960	1.547e5	3.070e5	1.080	0.504	0.510	1123	1161	2.50e6	4.98e6	2225.6	4288.4	NO	db	db	67.643
13C-234678-HxCDF	35.987	0.983	1.458e5	2.866e5	1.014	0.509	0.510	1123	1161	2.37e6	4.69e6	2112.6	4038.7	NO	bb	bb	67.439
13C-123789-HxCDF	37.012	1.011	1.311e5	2.621e5	0.928	0.500	0.510	1123	1161	2.20e6	4.38e6	1958.3	3772.6	NO	bb	bb	67.042
13C-1234678-HpCDF	38.850	1.061	1.186e5	2.626e5	1.036	0.451	0.440	1139	1335	1.99e6	4.47e6	1749.7	3344.6	NO	bb	bb	58.211
13C-1234789-HpCDF	41.101	1.123	1.045e5	2.350e5	0.905	0.445	0.440	1139	1335	1.52e6	3.38e6	1331.0	2535.0	NO	bd	bb	59.354
13C-1234-TCDD	25.685	0.000	2.202e5	2.854e5	1.000	0.772	0.770	1822	851	3.48e6	4.54e6	1911.8	5330.6	NO	bb	bb	100.000
13C-2378-TCDD	26.501	1.032	1.744e5	2.268e5	1.103	0.769	0.770	1822	851	2.76e6	3.52e6	1512.7	4139.2	NO	bb	bb	71.945
13C-12378-PeCDD	31.608	1.231	2.122e5	1.312e5	0.914	1.618	1.550	678	632	3.25e6	2.01e6	4786.0	3174.8	NO	bb	bb	74.289
13C-123478-HxCDD	36.109	0.987	2.569e5	2.015e5	0.933	1.275	1.240	1491	1706	4.15e6	3.26e6	2786.7	1907.7	NO	bd	bd	77.745
13C-123678-HxCDD	36.221	0.990	2.491e5	1.997e5	0.965	1.247	1.240	1491	1706	4.09e6	3.27e6	2743.8	1913.4	NO	db	db	73.611
13C-1234678-HpCDD	40.354	1.103	1.627e5	1.513e5	0.782	1.075	1.050	880	1448	2.59e6	2.32e6	2943.7	1603.1	NO	bb	bb	63.531
13C-OCDD	45.129	1.233	2.822e5	3.060e5	0.788	0.922	0.890	979	924	3.52e6	3.85e6	3597.9	4171.1	NO	bb	bb	118.071
13C-123789-HxCDD	36.599	0.000	3.521e5	2.799e5	1.000	1.258	1.240	1491	1706	5.88e6	4.75e6	3946.6	2781.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	1.524e5		1.233			953		2.38e6		2501.5			bb		24.433

ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, 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	22.374	0.865	4.694e2	7.766e2	1.064	0.604	0.770	1013	1073	8.71e3	1.42e4	8.6	13.3	YES	bb	bb	0.228
1289-TCDF	27.469	1.062	6.151e2	9.305e2	0.858	0.661	0.770	1013	1073	8.38e3	1.44e4	8.3	13.4	NO	db	db	0.351
13468-PECDF					1.013		1.550	769	832								
12389-PECDF					0.844		1.550	1253	906								
123468-HXCDF	33.346	0.953	9.628e3	7.465e3	1.197	1.290	1.240	1019	715	1.54e5	1.15e5	151.3	160.9	NO	bd	bd	3.130
1368-TCDD	23.629	0.892	3.323e3	3.765e3	1.084	0.882	0.770	1122	1246	5.03e4	6.60e4	44.8	53.0	NO	bb	bb	1.629
1289-TCDD					0.975		0.770	1122	1246								
12479-PECDD	28.934	0.915	8.333e3	6.342e3	1.837	1.314	1.550	1762	2005	8.60e4	6.15e4	48.8	30.7	YES	MM	MM	2.326
12389-PECDD	32.032	1.013	7.457e2	4.443e2	1.252	1.678	1.550	1762	2005	1.23e4	8.46e3	7.0	4.2	NO	bb	bb	0.277
124679-HXCDD	34.104	0.944	3.587e4	2.977e4	1.033	1.205	1.240	1713	1896	5.75e5	4.95e5	335.6	261.0	NO	bb	bb	13.863
1234679-HPCDD	39.318	0.974	2.915e5	2.814e5	1.286	1.036	1.050	2323	1713	4.72e6	4.54e6	2032.7	2649.1	NO	bd	bb	141.898
Total-tetrafurans			3.785e4		0.933			1013		5.48e5							18.921
Total-penta1			1.979e4					769		2.79e5							6.694
Total-pentafurans			3.581e4		0.866			1253		5.33e5							13.156
Total-hexafurans			1.089e5		1.208			1019		1.65e6							37.011
Total-heptafurans			1.744e5		1.185			1060		2.78e6							79.436
Total-Furans			4.683e5		1.067			1013		6.87e6							210.306
Total-tetradoxins			1.103e4		1.099			1122		1.67e5							5.460
Total-pentadoxins			1.663e4		1.392			1762		2.58e5							6.128
Total-hexadoxins			1.190e5		1.007			1713		1.71e6							46.939
Total-heptadoxins			5.313e5		1.269			2323		8.46e6							262.461
Total-Dioxins			2.119e6		1.165			1122		2.86e7							1266.863
Total-TEQ			2.587e6					1122		3.55e7							1477.169
FUNCTION1 PFK			1.103e7					462606		1.04e8							
FUNCTION2 PFK			2.104e5					218671		6.53e6							0.000
FUNCTION3 PFK			4.145e6					238627		1.59e7							0.000
FUNCTION4 PFK			3.871e5					172527		8.50e6							
FUNCTION5 PFK			1.203e4					101739		4.64e5							
FUNCTION1 HXCD...			1.226e3					634		1.72e4							0.000
FUNCTION1 HPCD...			2.627e3					781		4.09e4							0.000
FUNCTION2 HPCD...			1.759e2					628		2.86e3							0.000
FUNCTION3 OCDPE			3.097e2					513		5.64e3							0.000
FUNCTION4 NCDPE			3.494e3					648		6.14e4							0.000
FUNCTION5 DCDPE			8.354e1					746		1.21e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:32:35 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10**Calibration: T:\Autospec\Curves\230201CIH.cdb 03 Feb 2023 10:33:40****ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.70	6.515e2	8.068e2	0.933	0.81	0.77	11.5	YES	NO	db	db	0.305
2	Total-tetrafurans	23.61	2.092e3	2.907e3	0.933	0.72	0.77	32.7	YES	NO	dd	dd	1.045
3	Total-tetrafurans	23.34	9.345e2	1.421e3	0.933	0.66	0.77	15.5	YES	NO	dd	dd	0.492
4	Total-tetrafurans	23.22	3.435e3	4.455e3	0.933	0.77	0.77	44.0	YES	NO	bd	bd	1.649
5	Total-tetrafurans	22.63	1.583e3	2.018e3	0.933	0.78	0.77	27.6	YES	NO	bb	bb	0.753
6	Total-tetrafurans	26.11	4.211e3	6.059e3	0.933	0.69	0.77	59.0	YES	NO	db	db	2.147
7	Total-tetrafurans	26.02	1.758e3	2.455e3	0.933	0.72	0.77	27.7	YES	NO	dd	dd	0.881
8	2378-TCDF	25.88	2.879e3	3.853e3	0.876	0.75	0.77	44.8	YES	NO	bd	bd	1.498
9	Total-tetrafurans	25.65	2.733e3	3.627e3	0.933	0.75	0.77	24.4	YES	NO	db	db	1.329
10	Total-tetrafurans	25.38	1.096e3	1.285e3	0.933	0.85	0.77	15.5	YES	NO	dd	dd	0.498
11	Total-tetrafurans	25.20	1.450e3	1.855e3	0.933	0.78	0.77	23.6	YES	NO	bd	bd	0.691
12	Total-tetrafurans	24.97	2.284e3	3.316e3	0.933	0.69	0.77	36.3	YES	NO	db	bb	1.171
13	Total-tetrafurans	24.78	2.450e3	3.725e3	0.933	0.66	0.77	35.5	YES	NO	dd	db	1.291
14	Total-tetrafurans	24.63	1.731e3	2.033e3	0.933	0.85	0.77	23.9	YES	NO	dd	dd	0.787
15	Total-tetrafurans	24.55	3.132e3	4.237e3	0.933	0.74	0.77	37.4	YES	NO	dd	dd	1.541
16	Total-tetrafurans	24.11	2.529e3	3.787e3	0.933	0.67	0.77	39.4	YES	NO	dd	dd	1.320
17	Total-tetrafurans	23.98	2.288e3	3.320e3	0.933	0.69	0.77	34.3	YES	NO	dd	dd	1.172
18	1289-TCDF	27.47	6.151e2	9.305e2	0.858	0.66	0.77	8.3	YES	NO	db	db	0.351

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.30	1.979e4	1.277e4		1.55	1.55	362.9	YES	NO	bb	bb	6.694

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	28.97	9.684e3	6.460e3	0.866	1.50	1.55	115.9	YES	NO	dd	db	3.593
2	Total-pentafurans	28.90	4.489e3	3.236e3	0.866	1.39	1.55	68.3	YES	NO	dd	dd	1.719
3	Total-pentafurans	28.79	5.052e3	3.170e3	0.866	1.59	1.55	43.2	YES	NO	bd	dd	1.830
4	Total-pentafurans	32.41	4.192e2	2.753e2	0.866	1.52	1.55	5.1	YES	NO	bb	bb	0.155
5	23478-PeCDF	31.39	4.065e3	2.353e3	0.911	1.73	1.55	44.2	YES	NO	dd	bb	1.390
6	Total-pentafurans	31.23	1.913e3	1.216e3	0.866	1.57	1.55	25.8	YES	NO	dd	db	0.696
7	Total-pentafurans	31.12	2.688e3	1.595e3	0.866	1.69	1.55	30.7	YES	NO	bd	bd	0.953
8	Total-pentafurans	30.25	3.052e3	2.229e3	0.866	1.37	1.55	38.5	YES	NO	dd	dd	1.175
9	12378-PeCDF	30.04	2.089e3	1.405e3	0.845	1.49	1.55	25.8	YES	NO	bd	dd	0.780
10	Total-pentafurans	29.57	1.076e3	7.661e2	0.866	1.40	1.55	14.1	YES	NO	dd	dd	0.410
11	Total-pentafurans	29.47	1.283e3	7.625e2	0.866	1.68	1.55	13.8	YES	NO	bd	dd	0.455

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.14	5.391e3	4.763e3	1.248	1.13	1.24	90.1	YES	NO	db	dd	1.762
2	123478-HxCDF	34.99	1.054e4	8.379e3	1.182	1.26	1.24	166.2	YES	NO	dd	dd	3.510
3	Total-hexafurans	34.85	3.382e3	2.612e3	1.208	1.29	1.24	50.0	YES	NO	bd	bd	1.138
4	Total-hexafurans	34.38	3.640e4	2.868e4	1.208	1.27	1.24	561.2	YES	NO	db	bb	12.357
5	Total-hexafurans	34.08	1.588e3	1.254e3	1.208	1.27	1.24	22.1	YES	NO	bd	bb	0.540
6	Total-hexafurans	33.55	3.184e4	2.636e4	1.208	1.21	1.24	459.4	YES	NO	db	db	11.051
7	123468-HxCDF	33.35	9.628e3	7.465e3	1.197	1.29	1.24	151.3	YES	NO	bd	bd	3.130
8	123789-HxCDF	37.00	2.083e3	1.469e3	1.187	1.42	1.24	29.7	YES	NO	bb	bb	0.761
9	234678-HxCDF	36.00	6.708e3	5.516e3	1.229	1.22	1.24	67.3	YES	NO	MM	bb	2.301
10	Total-hexafurans	35.65	4.341e2	3.579e2	1.208	1.21	1.24	7.3	YES	NO	bb	bb	0.150
11	Total-hexafurans	35.47	5.431e2	4.555e2	1.208	1.19	1.24	9.6	YES	NO	bb	bb	0.190
12	Total-hexafurans	35.34	3.710e2	2.686e2	1.208	1.38	1.24	7.3	YES	NO	bb	db	0.121

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.53	1.074e5	1.061e5	1.185	1.01	1.05	1612.9	YES	NO	bb	bb	50.027
2	Total-heptafurans	39.27	2.557e3	2.343e3	1.185	1.09	1.05	36.0	YES	NO	bb	bb	1.148
3	Total-heptafurans	39.04	1.511e2	1.317e2	1.185	1.15	1.05	4.5	YES	NO	db	db	0.066
4	1234678-HpCDF	38.86	5.934e4	5.839e4	1.204	1.02	1.05	900.9	YES	NO	bd	bd	25.651
5	1234789-HpCDF	41.11	4.878e3	5.188e3	1.165	0.94	1.05	65.7	YES	NO	bb	bd	2.545

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-tetrafurans	23.70	6.515e2	8.068e2	0.933	0.81	0.77	11.5	YES	NO	db	db	0.305
2	Total-tetrafurans	23.61	2.092e3	2.907e3	0.933	0.72	0.77	32.7	YES	NO	dd	dd	1.045
3	Total-tetrafurans	23.34	9.345e2	1.421e3	0.933	0.66	0.77	15.5	YES	NO	dd	dd	0.492
4	Total-tetrafurans	23.22	3.435e3	4.455e3	0.933	0.77	0.77	44.0	YES	NO	bd	bd	1.649
5	Total-tetrafurans	22.63	1.583e3	2.018e3	0.933	0.78	0.77	27.6	YES	NO	bb	bb	0.753
6	Total-Furans	21.25	2.107e2	3.042e2	1.067	0.69	0.77	3.1	YES	NO	bb	db	0.094
7	Total-tetrafurans	26.11	4.211e3	6.059e3	0.933	0.69	0.77	59.0	YES	NO	db	db	2.147
8	Total-tetrafurans	26.02	1.758e3	2.455e3	0.933	0.72	0.77	27.7	YES	NO	dd	dd	0.881
9	2378-TCDF	25.88	2.879e3	3.853e3	0.876	0.75	0.77	44.8	YES	NO	bd	bd	1.498
10	Total-tetrafurans	25.65	2.733e3	3.627e3	0.933	0.75	0.77	24.4	YES	NO	db	db	1.329
11	Total-tetrafurans	25.38	1.096e3	1.285e3	0.933	0.85	0.77	15.5	YES	NO	dd	dd	0.498
12	Total-tetrafurans	25.20	1.450e3	1.855e3	0.933	0.78	0.77	23.6	YES	NO	bd	bd	0.691
13	Total-tetrafurans	24.97	2.284e3	3.316e3	0.933	0.69	0.77	36.3	YES	NO	db	bb	1.171
14	Total-tetrafurans	24.78	2.450e3	3.725e3	0.933	0.66	0.77	35.5	YES	NO	dd	db	1.291
15	Total-tetrafurans	24.63	1.731e3	2.033e3	0.933	0.85	0.77	23.9	YES	NO	dd	dd	0.787
16	Total-tetrafurans	24.55	3.132e3	4.237e3	0.933	0.74	0.77	37.4	YES	NO	dd	dd	1.541
17	Total-tetrafurans	24.11	2.529e3	3.787e3	0.933	0.67	0.77	39.4	YES	NO	dd	dd	1.320
18	Total-tetrafurans	23.98	2.288e3	3.320e3	0.933	0.69	0.77	34.3	YES	NO	dd	dd	1.172
19	1289-TCDF	27.47	6.151e2	9.305e2	0.858	0.66	0.77	8.3	YES	NO	db	db	0.351
20	Total-pentafurans	28.97	9.684e3	6.460e3	0.866	1.50	1.55	115.9	YES	NO	dd	db	3.593
21	Total-pentafurans	28.90	4.489e3	3.236e3	0.866	1.39	1.55	68.3	YES	NO	dd	dd	1.719
22	Total-pentafurans	28.79	5.052e3	3.170e3	0.866	1.59	1.55	43.2	YES	NO	bd	dd	1.830
23	Total-pentafurans	32.41	4.192e2	2.753e2	0.866	1.52	1.55	5.1	YES	NO	bb	bb	0.155
24	23478-PeCDF	31.39	4.065e3	2.353e3	0.911	1.73	1.55	44.2	YES	NO	dd	bb	1.390
25	Total-pentafurans	31.23	1.913e3	1.216e3	0.866	1.57	1.55	25.8	YES	NO	dd	db	0.696
26	Total-pentafurans	31.12	2.688e3	1.595e3	0.866	1.69	1.55	30.7	YES	NO	bd	bd	0.953
27	Total-pentafurans	30.25	3.052e3	2.229e3	0.866	1.37	1.55	38.5	YES	NO	dd	dd	1.175
28	12378-PeCDF	30.04	2.089e3	1.405e3	0.845	1.49	1.55	25.8	YES	NO	bd	dd	0.780
29	Total-pentafurans	29.57	1.076e3	7.661e2	0.866	1.40	1.55	14.1	YES	NO	dd	dd	0.410
30	Total-pentafurans	29.47	1.283e3	7.625e2	0.866	1.68	1.55	13.8	YES	NO	bd	dd	0.455
31	123678-HxCDF	35.14	5.391e3	4.763e3	1.248	1.13	1.24	90.1	YES	NO	db	dd	1.762
32	123478-HxCDF	34.99	1.054e4	8.379e3	1.182	1.26	1.24	166.2	YES	NO	dd	dd	3.510
33	Total-hexafurans	34.85	3.382e3	2.612e3	1.208	1.29	1.24	50.0	YES	NO	bd	bd	1.138
34	Total-hexafurans	34.38	3.640e4	2.868e4	1.208	1.27	1.24	561.2	YES	NO	db	bb	12.357
35	Total-hexafurans	34.08	1.588e3	1.254e3	1.208	1.27	1.24	22.1	YES	NO	bd	bb	0.540
36	Total-hexafurans	33.55	3.184e4	2.636e4	1.208	1.21	1.24	459.4	YES	NO	db	db	11.051
37	123468-HXCDF	33.35	9.628e3	7.465e3	1.197	1.29	1.24	151.3	YES	NO	bd	bd	3.130

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	123789-HxCDF	37.00	2.083e3	1.469e3	1.187	1.42	1.24	29.7	YES	NO	bb	bb	0.761
39	234678-HxCDF	36.00	6.708e3	5.516e3	1.229	1.22	1.24	67.3	YES	NO	MM	bb	2.301
40	Total-hexafurans	35.65	4.341e2	3.579e2	1.208	1.21	1.24	7.3	YES	NO	bb	bb	0.150
41	Total-hexafurans	35.47	5.431e2	4.555e2	1.208	1.19	1.24	9.6	YES	NO	bb	bb	0.190
42	Total-hexafurans	35.34	3.710e2	2.686e2	1.208	1.38	1.24	7.3	YES	NO	bb	db	0.121
43	Total-heptafurans	39.53	1.074e5	1.061e5	1.185	1.01	1.05	1612.9	YES	NO	bb	bb	50.027
44	Total-heptafurans	39.27	2.557e3	2.343e3	1.185	1.09	1.05	36.0	YES	NO	bb	bb	1.148
45	Total-heptafurans	39.04	1.511e2	1.317e2	1.185	1.15	1.05	4.5	YES	NO	db	db	0.066
46	1234678-HpCDF	38.86	5.934e4	5.839e4	1.204	1.02	1.05	900.9	YES	NO	bd	bd	25.651
47	1234789-HpCDF	41.11	4.878e3	5.188e3	1.165	0.94	1.05	65.7	YES	NO	bb	bd	2.545
48	OCDF	45.39	9.141e4	1.004e5	1.186	0.91	0.89	1219.1	YES	NO	bb	bb	54.993
49	Total-penta1	27.30	1.979e4	1.277e4		1.55	1.55	362.9	YES	NO	bb	bb	6.694

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	24.64	5.056e2	5.832e2	1.099	0.87	0.77	6.6	YES	NO	bb	bb	0.247
2	Total-tetradoxins	24.13	5.583e2	7.144e2	1.099	0.78	0.77	7.8	YES	NO	bb	bb	0.289
3	Total-tetradoxins	23.92	3.167e3	3.705e3	1.099	0.85	0.77	42.2	YES	NO	bb	db	1.559
4	1368-TCDD	23.63	3.323e3	3.765e3	1.084	0.88	0.77	44.8	YES	NO	bb	bb	1.629
5	2378-TCDD	26.52	7.949e2	1.134e3	1.236	0.70	0.77	11.9	YES	NO	bd	bd	0.389
6	Total-tetradoxins	25.50	4.639e2	5.467e2	1.099	0.85	0.77	7.4	YES	NO	db	db	0.229
7	Total-tetradoxins	25.13	1.321e3	1.637e3	1.099	0.81	0.77	19.0	YES	NO	bb	bb	0.671
8	Total-tetradoxins	24.85	8.962e2	1.072e3	1.099	0.84	0.77	9.4	YES	NO	bb	bb	0.447

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	7.457e2	4.443e2	1.252	1.68	1.55	7.0	YES	NO	bb	bb	0.277
2	12378-PeCDD	31.63	3.173e3	2.141e3	1.087	1.48	1.55	27.7	YES	NO	bb	bb	1.424
3	Total-pentadoxins	30.94	1.226e3	8.061e2	1.392	1.52	1.55	8.0	YES	NO	bb	bb	0.425
4	Total-pentadoxins	30.38	3.431e3	2.414e3	1.392	1.42	1.55	32.1	YES	NO	dd	dd	1.223
5	Total-pentadoxins	30.24	3.699e3	2.644e3	1.392	1.40	1.55	33.2	YES	NO	bd	bd	1.327
6	Total-pentadoxins	30.03	4.352e3	2.587e3	1.392	1.68	1.55	38.2	YES	NO	bb	bb	1.452

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	124679-HxCDD	34.10	3.587e4	2.977e4	1.033	1.20	1.24	335.6	YES	NO	bb	bb	13.863
2	123789-HxCDD	36.62	8.403e3	7.011e3	0.985	1.20	1.24	83.5	YES	NO	bb	bb	3.448
3	Total-hexadioxins	36.40	2.534e3	1.908e3	1.007	1.33	1.24	20.4	YES	NO	db	db	0.973
4	123678-HxCDD	36.23	1.269e4	1.046e4	1.021	1.21	1.24	122.1	YES	NO	dd	dd	5.055
5	123478-HxCDD	36.12	3.552e3	2.543e3	0.987	1.40	1.24	33.8	YES	NO	bd	bd	1.347
6	Total-hexadioxins	35.34	2.206e3	1.724e3	1.007	1.28	1.24	21.2	YES	NO	db	db	0.861
7	Total-hexadioxins	35.24	4.242e4	3.495e4	1.007	1.21	1.24	272.0	YES	NO	bd	bd	16.947
8	Total-hexadioxins	34.87	1.133e4	8.964e3	1.007	1.26	1.24	109.2	YES	NO	bb	bb	4.445

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	2.398e5	2.343e5	1.253	1.02	1.05	1609.8	YES	NO	bd	bd	120.563
2	1234679-HPCDD	39.32	2.915e5	2.814e5	1.286	1.04	1.05	2032.7	YES	NO	bd	bb	141.898

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	24.64	5.056e2	5.832e2	1.099	0.87	0.77	6.6	YES	NO	bb	bb	0.247
2	Total-tetradoxins	24.13	5.583e2	7.144e2	1.099	0.78	0.77	7.8	YES	NO	bb	bb	0.289
3	Total-tetradoxins	23.92	3.167e3	3.705e3	1.099	0.85	0.77	42.2	YES	NO	bb	db	1.559
4	1368-TCDD	23.63	3.323e3	3.765e3	1.084	0.88	0.77	44.8	YES	NO	bb	bb	1.629
5	2378-TCDD	26.52	7.949e2	1.134e3	1.236	0.70	0.77	11.9	YES	NO	bd	bd	0.389
6	Total-tetradoxins	25.50	4.639e2	5.467e2	1.099	0.85	0.77	7.4	YES	NO	db	db	0.229
7	Total-tetradoxins	25.13	1.321e3	1.637e3	1.099	0.81	0.77	19.0	YES	NO	bb	bb	0.671
8	Total-tetradoxins	24.85	8.962e2	1.072e3	1.099	0.84	0.77	9.4	YES	NO	bb	bb	0.447
9	12389-PECDD	32.03	7.457e2	4.443e2	1.252	1.68	1.55	7.0	YES	NO	bb	bb	0.277
10	12378-PeCDD	31.63	3.173e3	2.141e3	1.087	1.48	1.55	27.7	YES	NO	bb	bb	1.424
11	Total-pentadoxins	30.94	1.226e3	8.061e2	1.392	1.52	1.55	8.0	YES	NO	bb	bb	0.425
12	Total-pentadoxins	30.38	3.431e3	2.414e3	1.392	1.42	1.55	32.1	YES	NO	dd	dd	1.223
13	Total-pentadoxins	30.24	3.699e3	2.644e3	1.392	1.40	1.55	33.2	YES	NO	bd	bd	1.327
14	Total-pentadoxins	30.03	4.352e3	2.587e3	1.392	1.68	1.55	38.2	YES	NO	bb	bb	1.452
15	124679-HxCDD	34.10	3.587e4	2.977e4	1.033	1.20	1.24	335.6	YES	NO	bb	bb	13.863
16	123789-HxCDD	36.62	8.403e3	7.011e3	0.985	1.20	1.24	83.5	YES	NO	bb	bb	3.448
17	Total-hexadoxins	36.40	2.534e3	1.908e3	1.007	1.33	1.24	20.4	YES	NO	db	db	0.973
18	123678-HxCDD	36.23	1.269e4	1.046e4	1.021	1.21	1.24	122.1	YES	NO	dd	dd	5.055
19	123478-HxCDD	36.12	3.552e3	2.543e3	0.987	1.40	1.24	33.8	YES	NO	bd	bd	1.347
20	Total-hexadoxins	35.34	2.206e3	1.724e3	1.007	1.28	1.24	21.2	YES	NO	db	db	0.861
21	Total-hexadoxins	35.24	4.242e4	3.495e4	1.007	1.21	1.24	272.0	YES	NO	bd	bd	16.947
22	Total-hexadoxins	34.87	1.133e4	8.964e3	1.007	1.26	1.24	109.2	YES	NO	bb	bb	4.445
23	1234678-HpCDD	40.37	2.398e5	2.343e5	1.253	1.02	1.05	1609.8	YES	NO	bd	bd	120.563
24	1234679-HPCDD	39.32	2.915e5	2.814e5	1.286	1.04	1.05	2032.7	YES	NO	bd	bb	141.898
25	OCDD	45.15	1.441e6	1.627e6	1.103	0.89	0.89	9068.4	YES	NO	bb	bb	945.876

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:32:35 Pacific Standard Time

ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, 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	Total-tetrafurans	23.70	6.515e2	8.068e2	0.933	0.81	0.77	11.5	YES	NO	db	db	0.305
2	Total-tetrafurans	23.61	2.092e3	2.907e3	0.933	0.72	0.77	32.7	YES	NO	dd	dd	1.045
3	Total-tetrafurans	23.34	9.345e2	1.421e3	0.933	0.66	0.77	15.5	YES	NO	dd	dd	0.492
4	Total-tetrafurans	23.22	3.435e3	4.455e3	0.933	0.77	0.77	44.0	YES	NO	bd	bd	1.649
5	Total-tetrafurans	22.63	1.583e3	2.018e3	0.933	0.78	0.77	27.6	YES	NO	bb	bb	0.753
6	Total-Furans	21.25	2.107e2	3.042e2	1.067	0.69	0.77	3.1	YES	NO	bb	db	0.094
7	Total-tetrafurans	26.11	4.211e3	6.059e3	0.933	0.69	0.77	59.0	YES	NO	db	db	2.147
8	Total-tetrafurans	26.02	1.758e3	2.455e3	0.933	0.72	0.77	27.7	YES	NO	dd	dd	0.881
9	2378-TCDF	25.88	2.879e3	3.853e3	0.876	0.75	0.77	44.8	YES	NO	bd	bd	1.498
10	Total-tetrafurans	25.65	2.733e3	3.627e3	0.933	0.75	0.77	24.4	YES	NO	db	db	1.329
11	Total-tetrafurans	25.38	1.096e3	1.285e3	0.933	0.85	0.77	15.5	YES	NO	dd	dd	0.498
12	Total-tetrafurans	25.20	1.450e3	1.855e3	0.933	0.78	0.77	23.6	YES	NO	bd	bd	0.691
13	Total-tetrafurans	24.97	2.284e3	3.316e3	0.933	0.69	0.77	36.3	YES	NO	db	bb	1.171
14	Total-tetrafurans	24.78	2.450e3	3.725e3	0.933	0.66	0.77	35.5	YES	NO	dd	db	1.291
15	Total-tetrafurans	24.63	1.731e3	2.033e3	0.933	0.85	0.77	23.9	YES	NO	dd	dd	0.787
16	Total-tetrafurans	24.55	3.132e3	4.237e3	0.933	0.74	0.77	37.4	YES	NO	dd	dd	1.541
17	Total-tetrafurans	24.11	2.529e3	3.787e3	0.933	0.67	0.77	39.4	YES	NO	dd	dd	1.320
18	Total-tetrafurans	23.98	2.288e3	3.320e3	0.933	0.69	0.77	34.3	YES	NO	dd	dd	1.172
19	1289-TCDF	27.47	6.151e2	9.305e2	0.858	0.66	0.77	8.3	YES	NO	db	db	0.351
20	Total-pentafurans	28.97	9.684e3	6.460e3	0.866	1.50	1.55	115.9	YES	NO	dd	db	3.593
21	Total-pentafurans	28.90	4.489e3	3.236e3	0.866	1.39	1.55	68.3	YES	NO	dd	dd	1.719
22	Total-pentafurans	28.79	5.052e3	3.170e3	0.866	1.59	1.55	43.2	YES	NO	bd	dd	1.830
23	Total-pentafurans	32.41	4.192e2	2.753e2	0.866	1.52	1.55	5.1	YES	NO	bb	bb	0.155
24	23478-PeCDF	31.39	4.065e3	2.353e3	0.911	1.73	1.55	44.2	YES	NO	dd	bb	1.390
25	Total-pentafurans	31.23	1.913e3	1.216e3	0.866	1.57	1.55	25.8	YES	NO	dd	db	0.696
26	Total-pentafurans	31.12	2.688e3	1.595e3	0.866	1.69	1.55	30.7	YES	NO	bd	bd	0.953
27	Total-pentafurans	30.25	3.052e3	2.229e3	0.866	1.37	1.55	38.5	YES	NO	dd	dd	1.175
28	12378-PeCDF	30.04	2.089e3	1.405e3	0.845	1.49	1.55	25.8	YES	NO	bd	dd	0.780
29	Total-pentafurans	29.57	1.076e3	7.661e2	0.866	1.40	1.55	14.1	YES	NO	dd	dd	0.410
30	Total-pentafurans	29.47	1.283e3	7.625e2	0.866	1.68	1.55	13.8	YES	NO	bd	dd	0.455
31	123678-HxCDF	35.14	5.391e3	4.763e3	1.248	1.13	1.24	90.1	YES	NO	db	dd	1.762
32	123478-HxCDF	34.99	1.054e4	8.379e3	1.182	1.26	1.24	166.2	YES	NO	dd	dd	3.510
33	Total-hexafurans	34.85	3.382e3	2.612e3	1.208	1.29	1.24	50.0	YES	NO	bd	bd	1.138
34	Total-hexafurans	34.38	3.640e4	2.868e4	1.208	1.27	1.24	561.2	YES	NO	db	bb	12.357
35	Total-hexafurans	34.08	1.588e3	1.254e3	1.208	1.27	1.24	22.1	YES	NO	bd	bb	0.540
36	Total-hexafurans	33.55	3.184e4	2.636e4	1.208	1.21	1.24	459.4	YES	NO	db	db	11.051
37	123468-HXCDF	33.35	9.628e3	7.465e3	1.197	1.29	1.24	151.3	YES	NO	bd	bd	3.130

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, 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
38	123789-HxCDF	37.00	2.083e3	1.469e3	1.187	1.42	1.24	29.7	YES	NO	bb	bb	0.761
39	234678-HxCDF	36.00	6.708e3	5.516e3	1.229	1.22	1.24	67.3	YES	NO	MM	bb	2.301
40	Total-hexafurans	35.65	4.341e2	3.579e2	1.208	1.21	1.24	7.3	YES	NO	bb	bb	0.150
41	Total-hexafurans	35.47	5.431e2	4.555e2	1.208	1.19	1.24	9.6	YES	NO	bb	bb	0.190
42	Total-hexafurans	35.34	3.710e2	2.686e2	1.208	1.38	1.24	7.3	YES	NO	bb	db	0.121
43	Total-heptafurans	39.53	1.074e5	1.061e5	1.185	1.01	1.05	1612.9	YES	NO	bb	bb	50.027
44	Total-heptafurans	39.27	2.557e3	2.343e3	1.185	1.09	1.05	36.0	YES	NO	bb	bb	1.148
45	Total-heptafurans	39.04	1.511e2	1.317e2	1.185	1.15	1.05	4.5	YES	NO	db	db	0.066
46	1234678-HpCDF	38.86	5.934e4	5.839e4	1.204	1.02	1.05	900.9	YES	NO	bd	bd	25.651
47	1234789-HpCDF	41.11	4.878e3	5.188e3	1.165	0.94	1.05	65.7	YES	NO	bb	bd	2.545
48	OCDF	45.39	9.141e4	1.004e5	1.186	0.91	0.89	1219.1	YES	NO	bb	bb	54.993
49	Total-penta1	27.30	1.979e4	1.277e4		1.55	1.55	362.9	YES	NO	bb	bb	6.694
50	Total-tetradioxins	24.64	5.056e2	5.832e2	1.099	0.87	0.77	6.6	YES	NO	bb	bb	0.247
51	Total-tetradioxins	24.13	5.583e2	7.144e2	1.099	0.78	0.77	7.8	YES	NO	bb	bb	0.289
52	Total-tetradioxins	23.92	3.167e3	3.705e3	1.099	0.85	0.77	42.2	YES	NO	bb	db	1.559
53	1368-TCDD	23.63	3.323e3	3.765e3	1.084	0.88	0.77	44.8	YES	NO	bb	bb	1.629
54	2378-TCDD	26.52	7.949e2	1.134e3	1.236	0.70	0.77	11.9	YES	NO	bd	bd	0.389
55	Total-tetradioxins	25.50	4.639e2	5.467e2	1.099	0.85	0.77	7.4	YES	NO	db	db	0.229
56	Total-tetradioxins	25.13	1.321e3	1.637e3	1.099	0.81	0.77	19.0	YES	NO	bb	bb	0.671
57	Total-tetradioxins	24.85	8.962e2	1.072e3	1.099	0.84	0.77	9.4	YES	NO	bb	bb	0.447
58	12389-PECDD	32.03	7.457e2	4.443e2	1.252	1.68	1.55	7.0	YES	NO	bb	bb	0.277
59	12378-PeCDD	31.63	3.173e3	2.141e3	1.087	1.48	1.55	27.7	YES	NO	bb	bb	1.424
60	Total-pentadioxins	30.94	1.226e3	8.061e2	1.392	1.52	1.55	8.0	YES	NO	bb	bb	0.425
61	Total-pentadioxins	30.38	3.431e3	2.414e3	1.392	1.42	1.55	32.1	YES	NO	dd	dd	1.223
62	Total-pentadioxins	30.24	3.699e3	2.644e3	1.392	1.40	1.55	33.2	YES	NO	bd	bd	1.327
63	Total-pentadioxins	30.03	4.352e3	2.587e3	1.392	1.68	1.55	38.2	YES	NO	bb	bb	1.452
64	124679-HXCDD	34.10	3.587e4	2.977e4	1.033	1.20	1.24	335.6	YES	NO	bb	bb	13.863
65	123789-HxCDD	36.62	8.403e3	7.011e3	0.985	1.20	1.24	83.5	YES	NO	bb	bb	3.448
66	Total-hexadioxins	36.40	2.534e3	1.908e3	1.007	1.33	1.24	20.4	YES	NO	db	db	0.973
67	123678-HxCDD	36.23	1.269e4	1.046e4	1.021	1.21	1.24	122.1	YES	NO	dd	dd	5.055
68	123478-HxCDD	36.12	3.552e3	2.543e3	0.987	1.40	1.24	33.8	YES	NO	bd	bd	1.347
69	Total-hexadioxins	35.34	2.206e3	1.724e3	1.007	1.28	1.24	21.2	YES	NO	db	db	0.861
70	Total-hexadioxins	35.24	4.242e4	3.495e4	1.007	1.21	1.24	272.0	YES	NO	bd	bd	16.947
71	Total-hexadioxins	34.87	1.133e4	8.964e3	1.007	1.26	1.24	109.2	YES	NO	bb	bb	4.445
72	1234678-HpCDD	40.37	2.398e5	2.343e5	1.253	1.02	1.05	1609.8	YES	NO	bd	bd	120.563
73	1234679-HPCDD	39.32	2.915e5	2.814e5	1.286	1.04	1.05	2032.7	YES	NO	bd	bb	141.898
74	OCDD	45.15	1.441e6	1.627e6	1.103	0.89	0.89	9068.4	YES	NO	bb	bb	945.876

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, 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	21.65	6.946e5					20.3	YES		dd		
2	FUNCTION1 PFK	21.57	4.435e5					21.8	YES		dd		
3	FUNCTION1 PFK	21.51	1.487e6					24.0	YES		dd		
4	FUNCTION1 PFK	21.33	1.673e6					29.0	YES		dd		
5	FUNCTION1 PFK	21.19	1.660e6					31.9	YES		dd		
6	FUNCTION1 PFK	21.12	1.596e6					33.5	YES		bd		
7	FUNCTION1 PFK	24.84	1.354e4					0.9	NO		bb		
8	FUNCTION1 PFK	24.61	2.649e4					1.3	NO		bb		
9	FUNCTION1 PFK	24.51	2.560e3					0.4	NO		bb		
10	FUNCTION1 PFK	24.31	1.478e4					1.0	NO		bb		
11	FUNCTION1 PFK	24.17	4.161e3					0.6	NO		bb		
12	FUNCTION1 PFK	24.11	6.899e3					0.6	NO		bb		
13	FUNCTION1 PFK	23.51	3.583e5					2.5	NO		bb		
14	FUNCTION1 PFK	23.24	8.403e4					3.7	YES		bb		
15	FUNCTION1 PFK	23.02	4.408e3					0.6	NO		bb		
16	FUNCTION1 PFK	22.81	4.174e4					1.2	NO		bb		
17	FUNCTION1 PFK	22.66	1.838e4					1.2	NO		bb		
18	FUNCTION1 PFK	22.30	3.233e4					1.7	NO		db		
19	FUNCTION1 PFK	22.24	1.168e5					3.0	YES		dd		
20	FUNCTION1 PFK	22.09	3.903e5					7.7	YES		dd		
21	FUNCTION1 PFK	21.91	7.925e5					13.6	YES		dd		
22	FUNCTION1 PFK	21.71	1.469e6					19.1	YES		dd		
23	FUNCTION1 PFK	27.18	1.471e4					0.9	NO		bb		
24	FUNCTION1 PFK	27.11	5.346e4					1.6	NO		bb		
25	FUNCTION1 PFK	26.14	5.666e3					0.5	NO		bb		
26	FUNCTION1 PFK	25.67	1.541e4					0.3	NO		bb		
27	FUNCTION1 PFK	24.97	4.392e3					0.6	NO		bb		
28	FUNCTION1 PFK	24.91	8.309e3					0.7	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	29.15	7.357e3					1.3	NO		bb		0.000
2	FUNCTION2 PFK	29.06	1.364e4					1.3	NO		bb		0.000
3	FUNCTION2 PFK	28.90	4.255e3					1.0	NO		bb		0.000
4	FUNCTION2 PFK	28.83	1.016e4					1.4	NO		bb		0.000
5	FUNCTION2 PFK	28.73	1.527e4					1.8	NO		bb		0.000
6	FUNCTION2 PFK	28.69	6.205e3					1.3	NO		bb		0.000
7	FUNCTION2 PFK	28.46	1.858e4					1.8	NO		bb		0.000
8	FUNCTION2 PFK	28.38	4.429e3					1.1	NO		bb		0.000
9	FUNCTION2 PFK	28.31	1.294e4					1.8	NO		bb		0.000
10	FUNCTION2 PFK	32.74	1.303e4					1.5	NO		bb		0.000
11	FUNCTION2 PFK	32.47	1.012e3					0.4	NO		bb		0.000
12	FUNCTION2 PFK	32.37	2.617e3					0.7	NO		db		0.000
13	FUNCTION2 PFK	32.32	3.836e3					0.8	NO		bd		0.000
14	FUNCTION2 PFK	32.28	3.057e3					0.7	NO		bb		0.000
15	FUNCTION2 PFK	31.95	6.711e3					1.0	NO		bb		0.000
16	FUNCTION2 PFK	31.84	1.534e4					1.3	NO		bb		0.000
17	FUNCTION2 PFK	31.73	5.344e3					0.9	NO		bb		0.000
18	FUNCTION2 PFK	31.33	9.257e3					1.1	NO		db		0.000
19	FUNCTION2 PFK	31.26	2.904e3					0.7	NO		bd		0.000
20	FUNCTION2 PFK	31.22	2.520e3					1.0	NO		bb		0.000
21	FUNCTION2 PFK	31.14	8.888e3					1.3	NO		bb		0.000
22	FUNCTION2 PFK	31.05	1.114e4					1.6	NO		bb		0.000
23	FUNCTION2 PFK	30.05	6.372e3					1.0	NO		bb		0.000
24	FUNCTION2 PFK	29.67	8.460e2					0.3	NO		bb		0.000
25	FUNCTION2 PFK	29.49	1.062e4					1.3	NO		bb		0.000
26	FUNCTION2 PFK	32.84	1.405e4					1.4	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	37.11	5.918e5					11.1	YES		bb		0.000
2	FUNCTION3 PFK	36.81	7.538e5					24.1	YES		db		0.000
3	FUNCTION3 PFK	36.71	1.322e6					25.5	YES		bd		0.000
4	FUNCTION3 PFK	36.03	1.477e6					6.0	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 PFK	39.25	1.054e4					1.7	NO		bb		
2	FUNCTION4 PFK	39.16	3.213e3					0.8	NO		db		
3	FUNCTION4 PFK	39.10	9.762e3					1.3	NO		bd		
4	FUNCTION4 PFK	38.97	3.632e3					0.9	NO		bb		
5	FUNCTION4 PFK	38.69	1.631e3					0.5	NO		bb		
6	FUNCTION4 PFK	38.36	1.782e4					1.6	NO		bb		
7	FUNCTION4 PFK	38.28	2.046e4					1.6	NO		bb		
8	FUNCTION4 PFK	38.14	8.325e3					1.9	NO		db		
9	FUNCTION4 PFK	38.08	1.215e4					2.8	NO		bd		
10	FUNCTION4 PFK	41.75	9.898e3					1.3	NO		bb		
11	FUNCTION4 PFK	41.40	1.899e4					1.9	NO		bb		
12	FUNCTION4 PFK	41.13	5.119e3					1.0	NO		bb		
13	FUNCTION4 PFK	41.07	1.839e4					1.7	NO		db		
14	FUNCTION4 PFK	40.98	4.082e3					0.9	NO		bd		
15	FUNCTION4 PFK	40.63	5.444e3					1.3	NO		bb		
16	FUNCTION4 PFK	40.57	1.404e4					1.8	NO		bb		
17	FUNCTION4 PFK	40.39	5.066e3					1.2	NO		bb		
18	FUNCTION4 PFK	40.25	7.667e3					1.4	NO		bb		
19	FUNCTION4 PFK	40.16	3.231e3					0.8	NO		bb		
20	FUNCTION4 PFK	39.83	2.877e4					2.7	NO		db		
21	FUNCTION4 PFK	39.76	4.017e4					2.6	NO		dd		
22	FUNCTION4 PFK	39.67	1.462e4					2.2	NO		dd		
23	FUNCTION4 PFK	39.62	9.872e3					1.5	NO		bd		
24	FUNCTION4 PFK	39.47	2.113e4					2.9	NO		db		
25	FUNCTION4 PFK	39.40	5.701e4					3.5	YES		bd		
26	FUNCTION4 PFK	42.96	8.175e3					1.3	NO		bb		
27	FUNCTION4 PFK	42.54	9.885e2					0.5	NO		bb		
28	FUNCTION4 PFK	42.49	5.270e3					1.1	NO		bb		
29	FUNCTION4 PFK	42.39	7.571e2					0.4	NO		bb		
30	FUNCTION4 PFK	42.21	2.212e3					0.8	NO		bb		
31	FUNCTION4 PFK	42.10	9.365e2					0.5	NO		bb		
32	FUNCTION4 PFK	41.87	8.477e3					1.5	NO		db		
33	FUNCTION4 PFK	41.82	9.253e3					1.3	NO		bd		

ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, 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	43.54	5.570e3					2.2	NO		bb		
2	FUNCTION5 PFK	43.09	6.460e3					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...	23.02	7.542e1					1.6	NO		bb		0.000
2	FUNCTION1 HXCD...	22.42	2.819e2					6.9	YES		bb		0.000
3	FUNCTION1 HXCD...	22.25	3.395e2					9.2	YES		bb		0.000
4	FUNCTION1 HXCD...	22.03	8.549e1					3.1	YES		bb		0.000
5	FUNCTION1 HXCD...	28.03	9.024e1					1.6	NO		bb		0.000
6	FUNCTION1 HXCD...	26.53	1.640e2					2.5	NO		bb		0.000
7	FUNCTION1 HXCD...	26.32	1.893e2					2.3	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	26.37	8.850e1					2.0	NO		bb		0.000
2	FUNCTION1 HPCD...	23.48	1.671e3					32.5	YES		bb		0.000
3	FUNCTION1 HPCD...	22.42	9.084e1					2.2	NO		bb		0.000
4	FUNCTION1 HPCD...	22.16	7.763e2					15.7	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...	31.70	9.035e1					2.6	NO		bb		0.000
2	FUNCTION2 HPCD...	29.40	8.555e1					2.0	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	36.61	1.065e2					3.4	YES		bb		0.000
2	FUNCTION3 OCDPE	35.22	7.231e1					3.7	YES		bb		0.000
3	FUNCTION3 OCDPE	34.30	1.308e2					3.9	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:32:35 Pacific Standard Time

ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, 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	38.50	3.494e3					94.6	YES		bb		0.000

ETHERS6

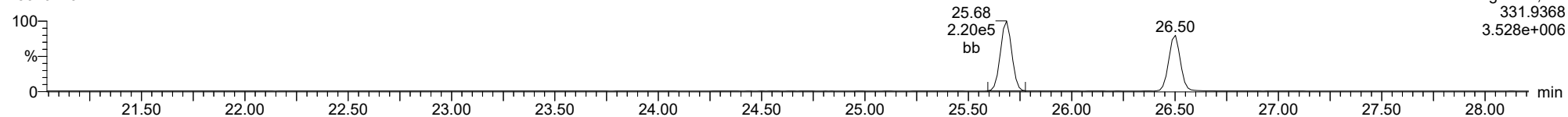
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.87	8.354e1					1.6	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: 22L0473-11, **Name:** 23020720, **Date:** 08-Feb-2023, **Time:** 00:46:02, **Conditions:** AUTOSPEC01, **User:** pk

13C-1234-TCDD

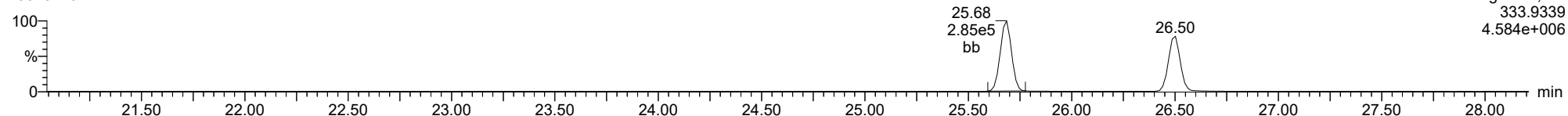
23020720



F1:Voltage SIR,El+
331.9368
3.528e+006

13C-1234-TCDD

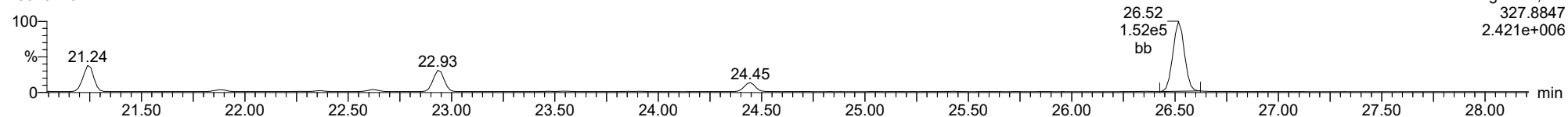
23020720



F1:Voltage SIR,El+
333.9339
4.584e+006

37CL-2378-TCDD

23020720

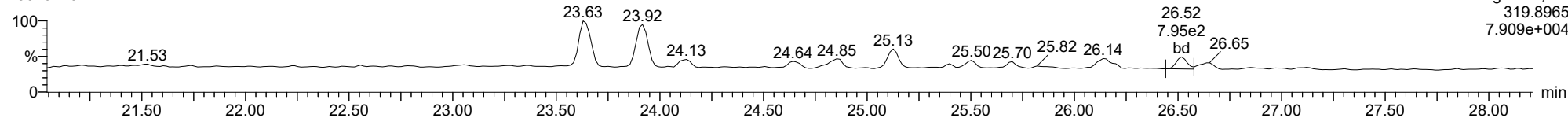


F1:Voltage SIR,El+
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2.421e+006

ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

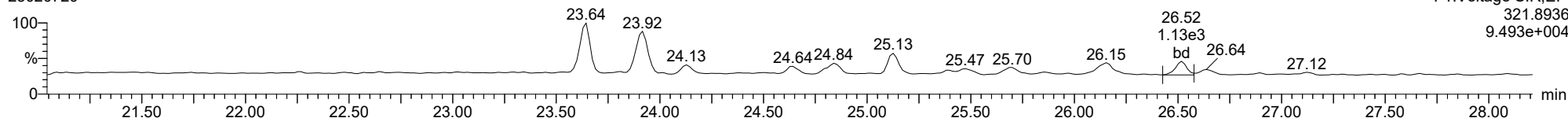
2378-TCDD

23020720



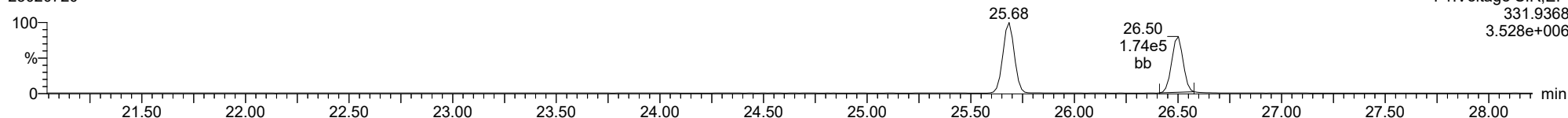
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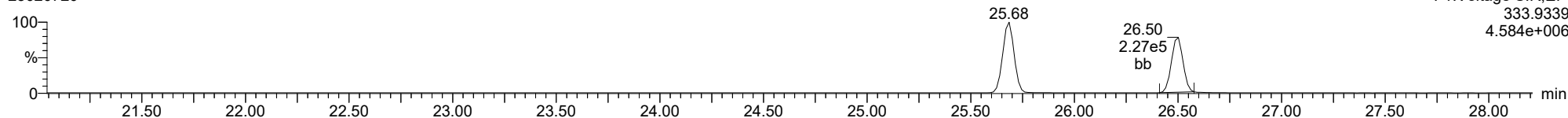
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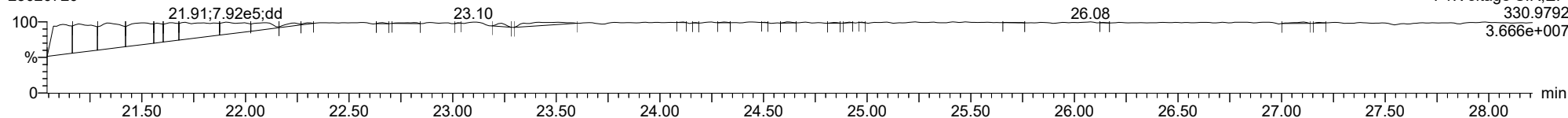
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23020720



FUNCTION1 PFK

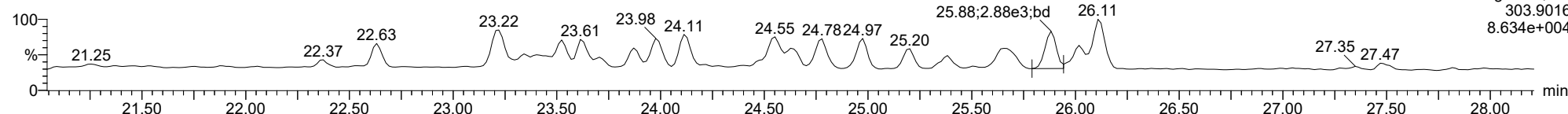
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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

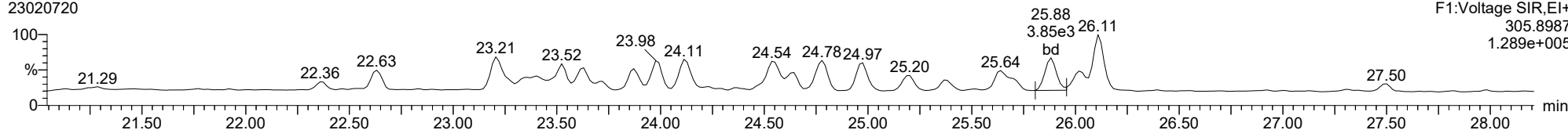
2378-TCDF

23020720



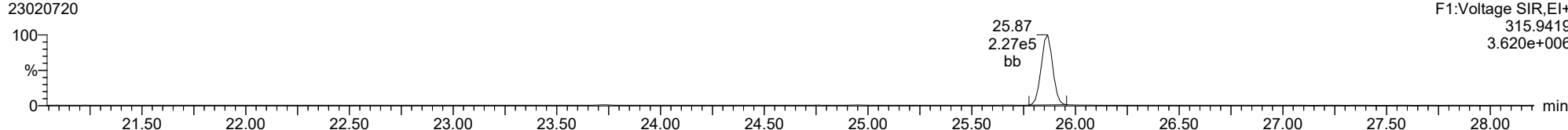
2378-TCDF

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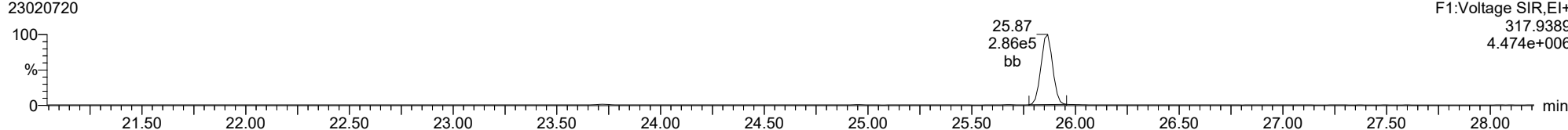
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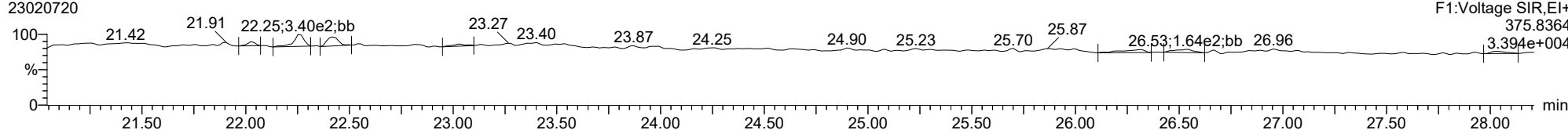
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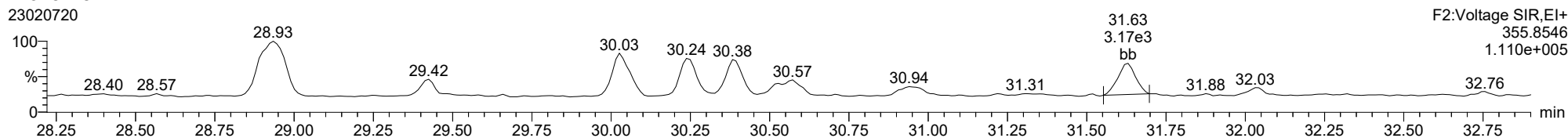
FUNCTION1 HXCDPE

23020720

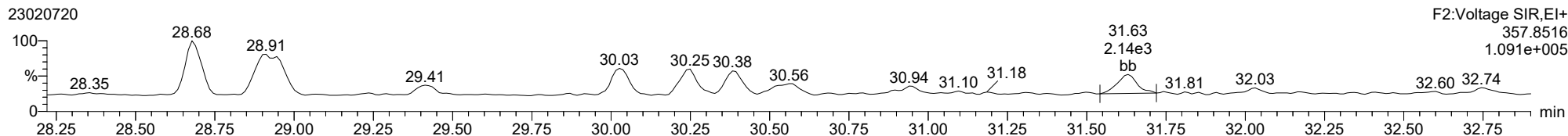


ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

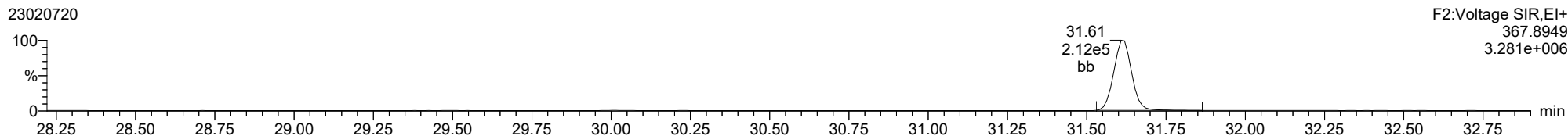
12378-PeCDD



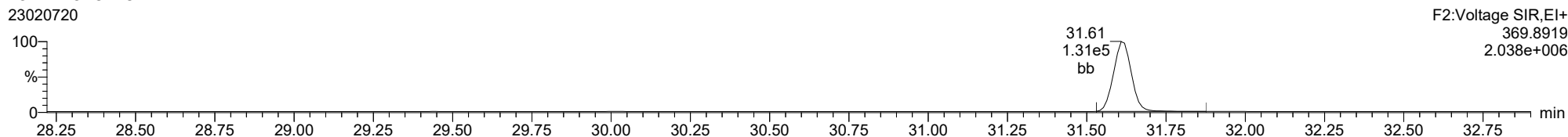
12378-PeCDD



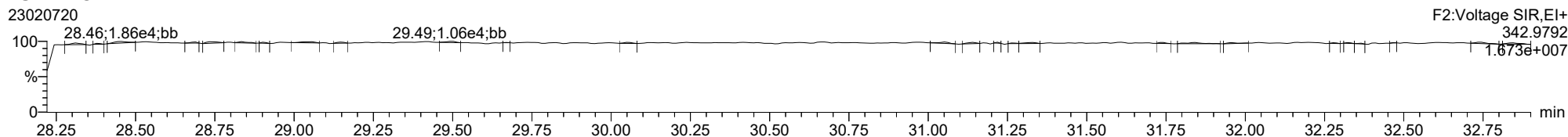
13C-12378-PeCDD



13C-12378-PeCDD



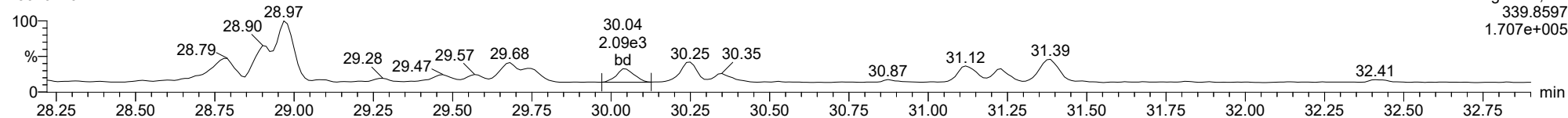
FUNCTION2 PFK



ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

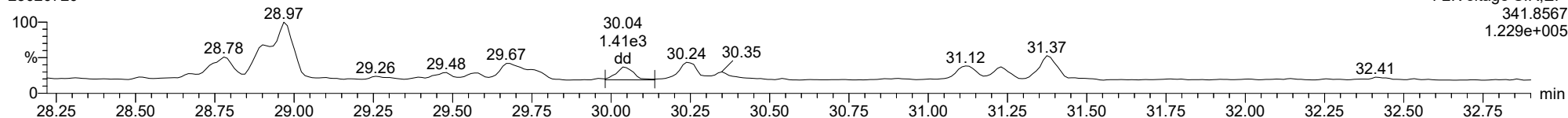
12378-PeCDF

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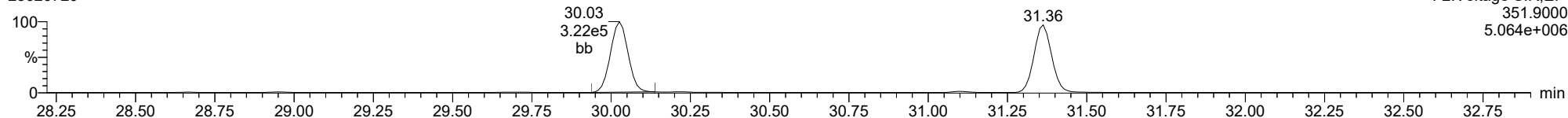
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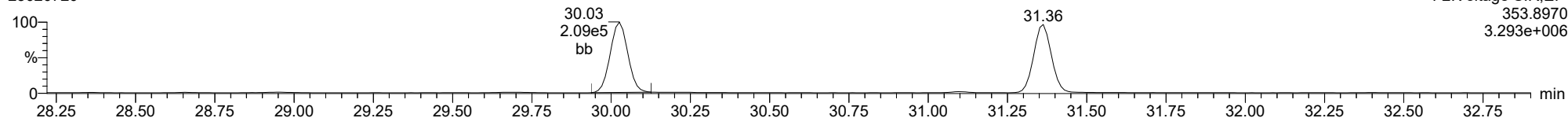
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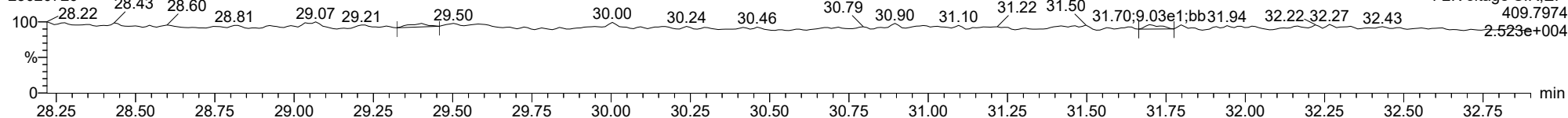
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FUNCTION2 HPCDPE

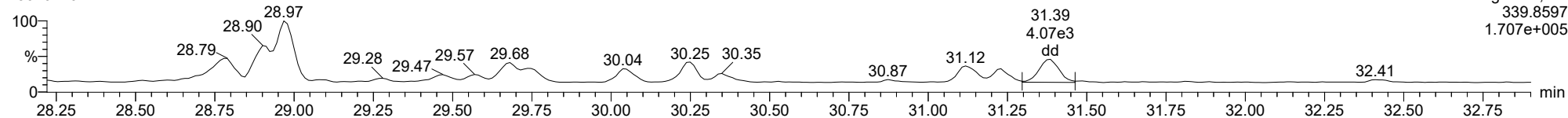
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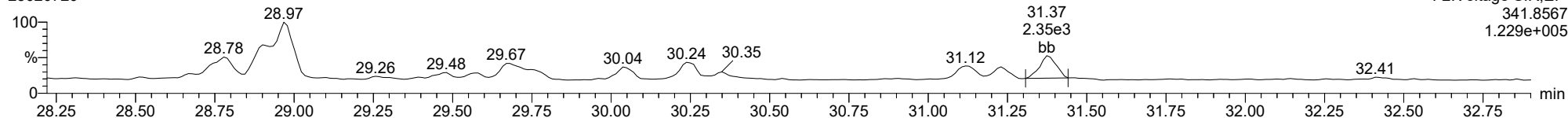
23478-PeCDF

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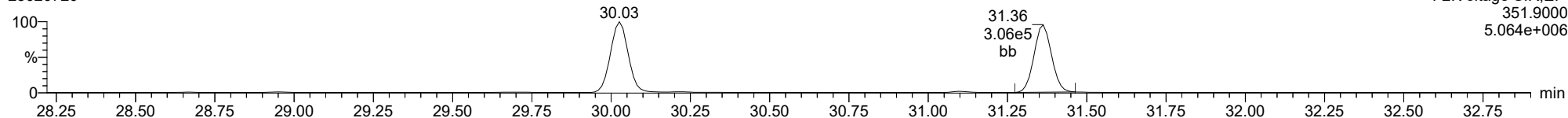
23478-PeCDF

23020720



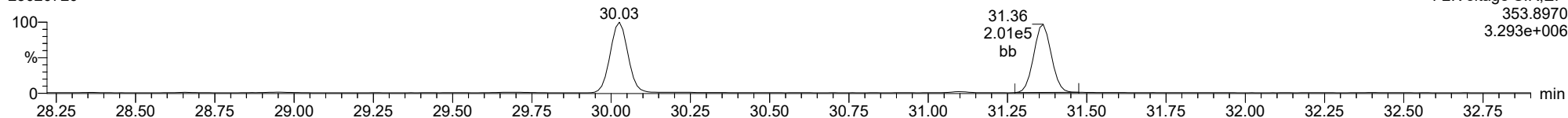
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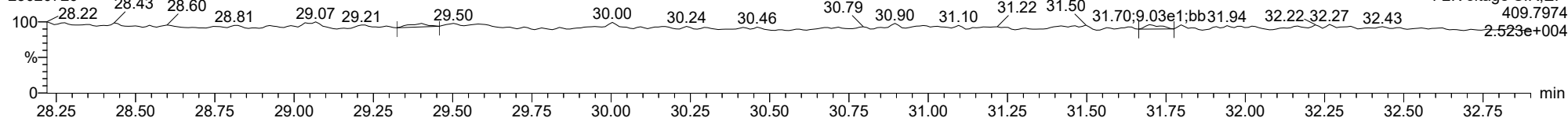
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FUNCTION2 HPCDPE

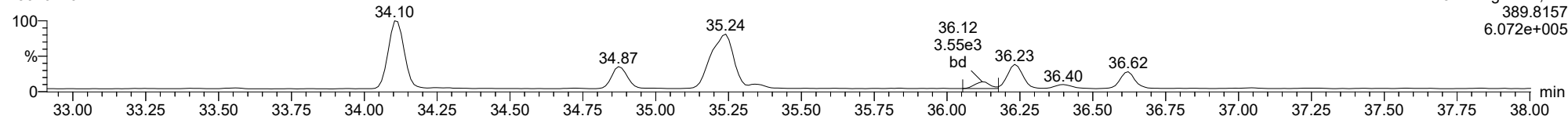
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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

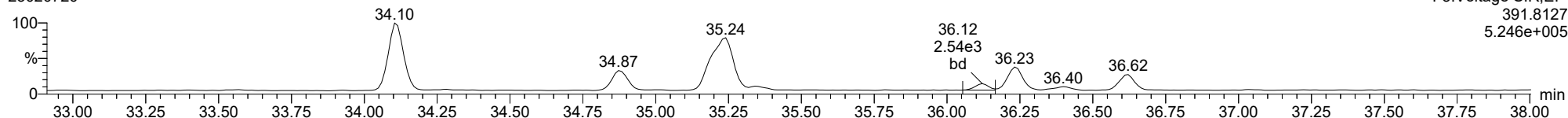
123478-HxCDD

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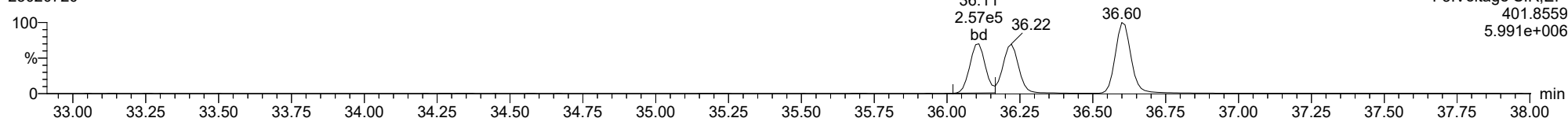
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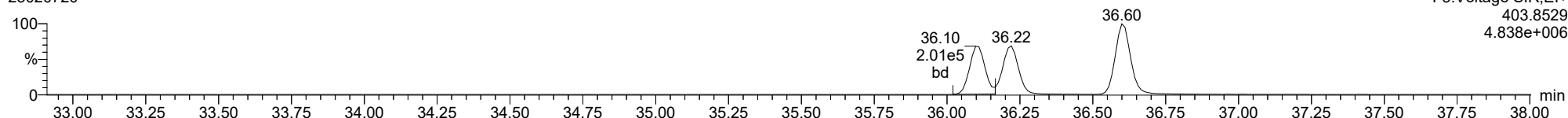
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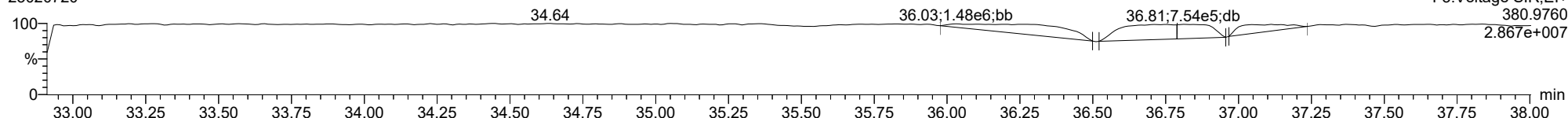
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FUNCTION3 PFK

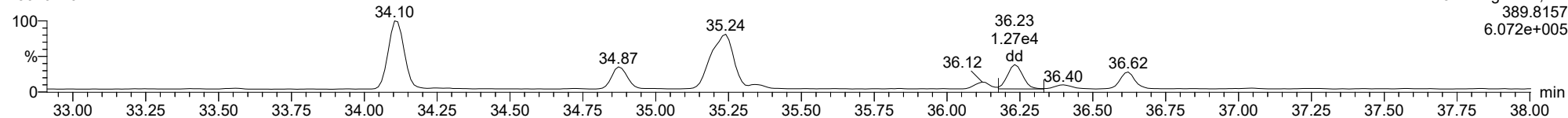
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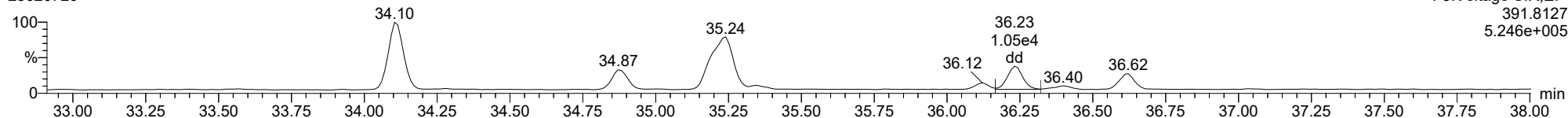
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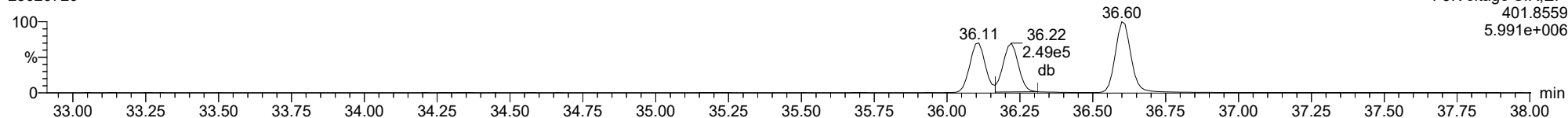
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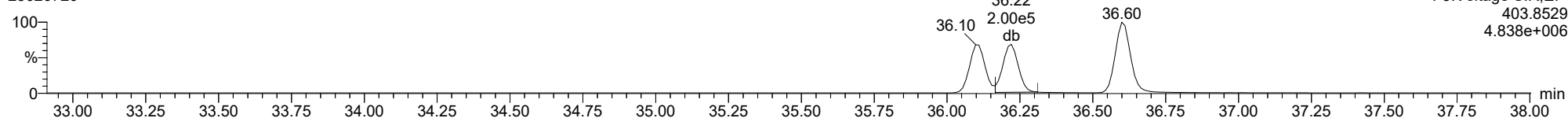
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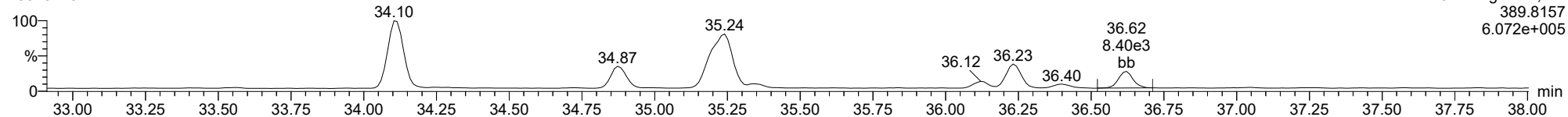
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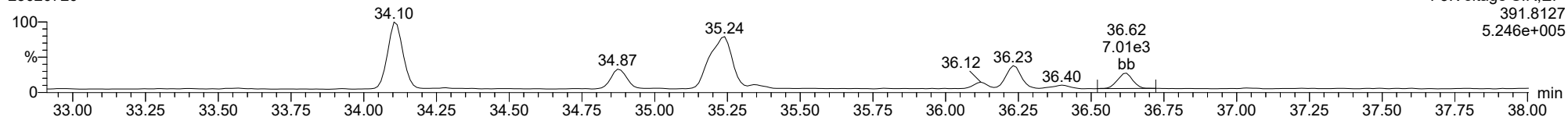
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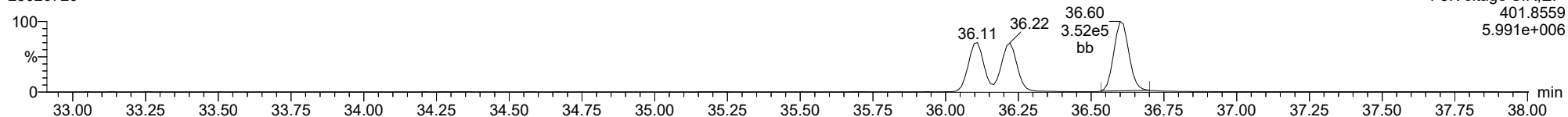
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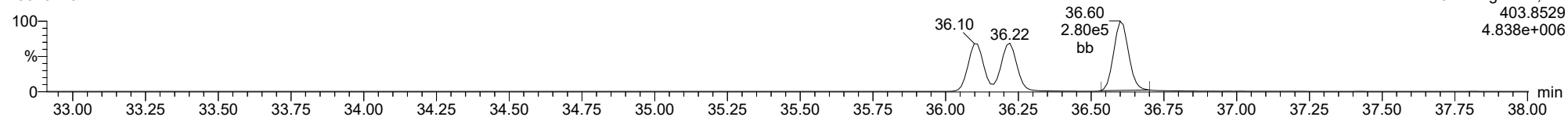
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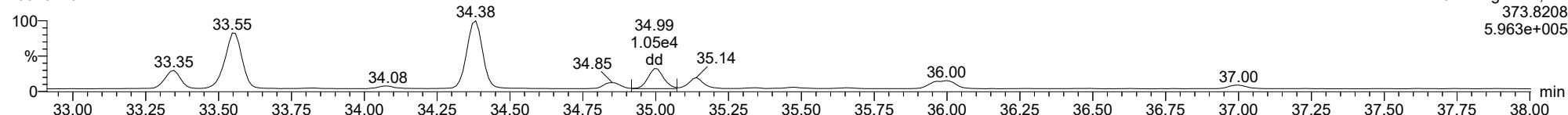
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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

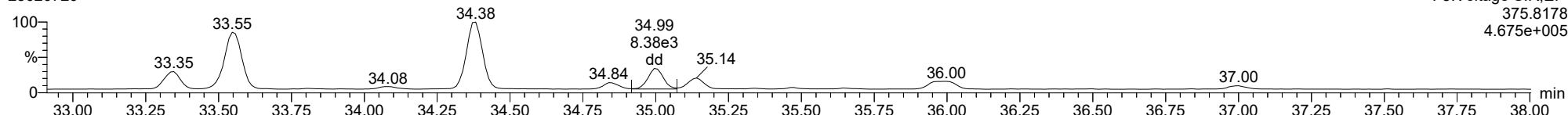
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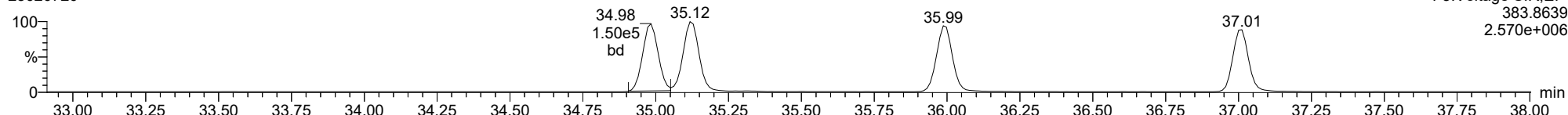
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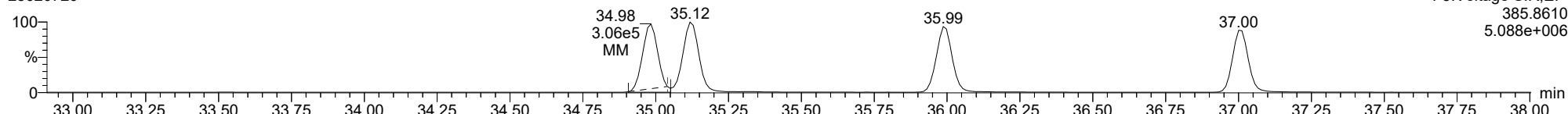
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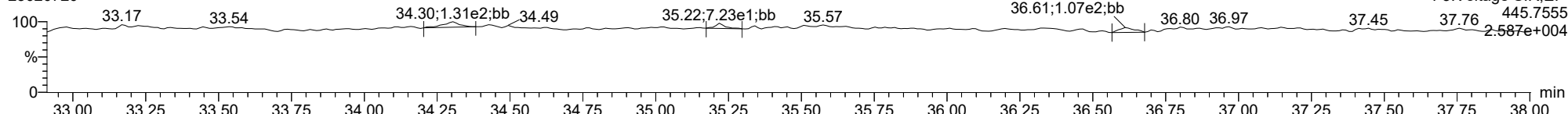
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23020720



FUNCTION3 OCDPE

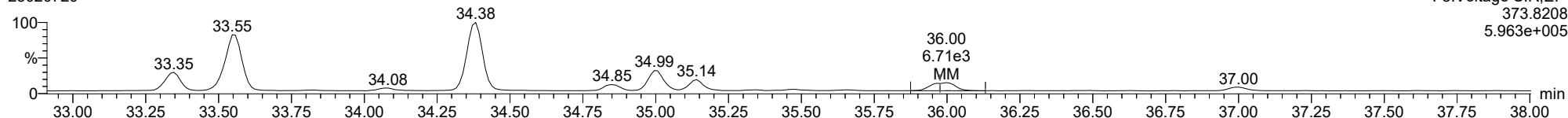
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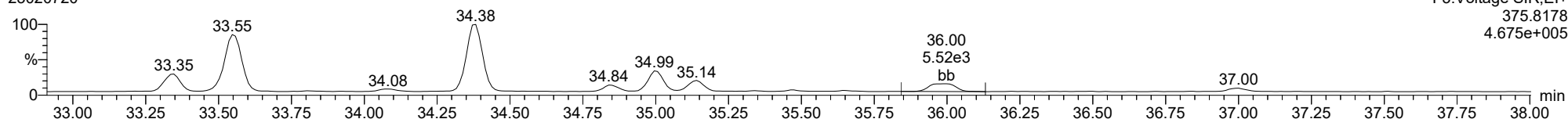
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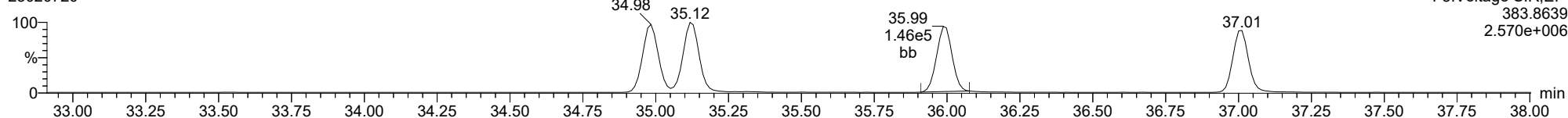
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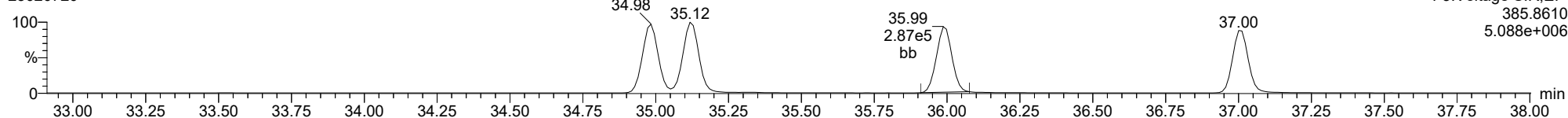
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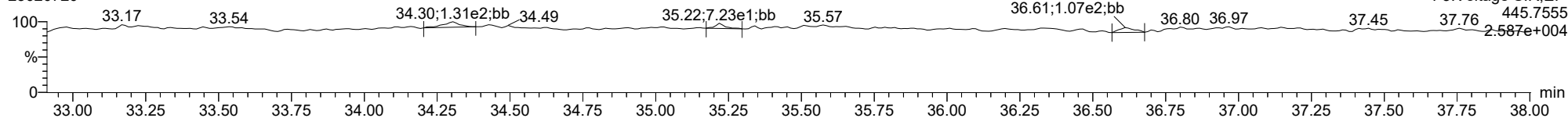
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FUNCTION3 OCDPE

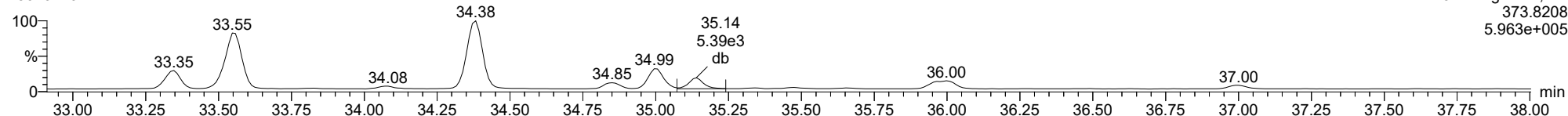
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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

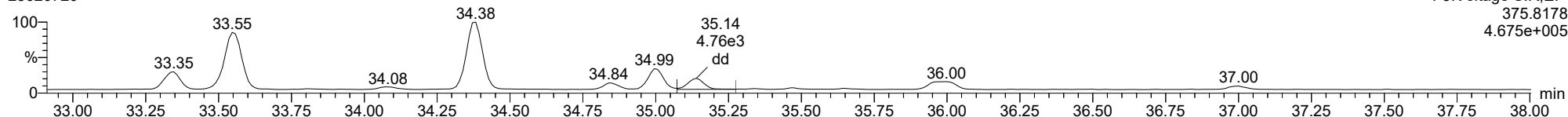
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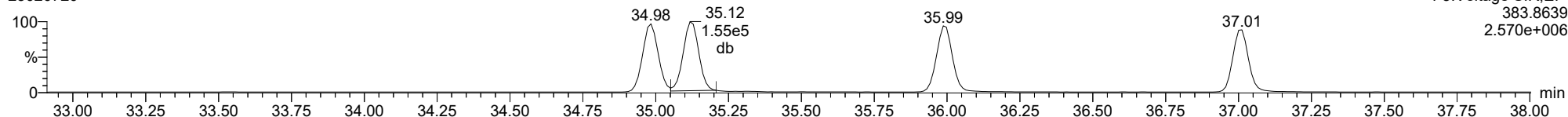
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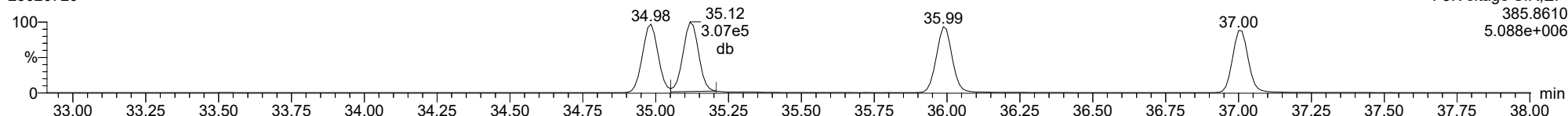
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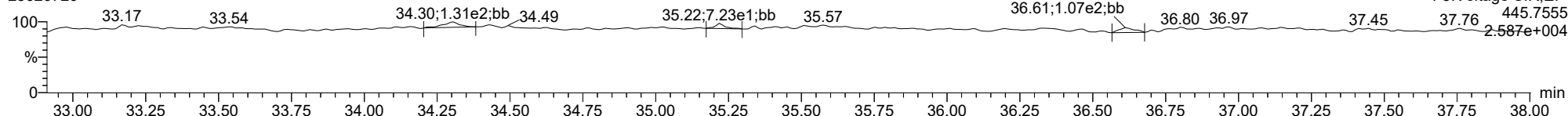
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FUNCTION3 OCDPE

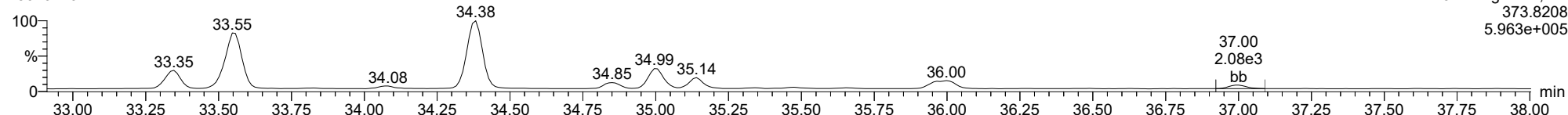
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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

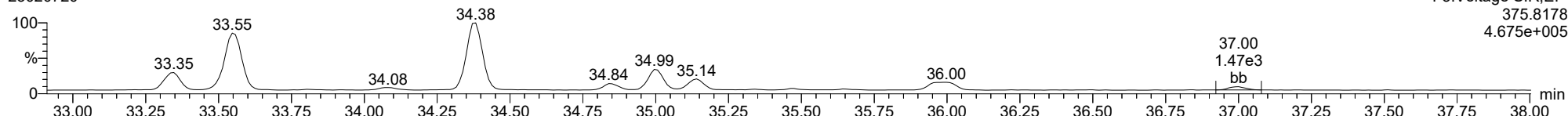
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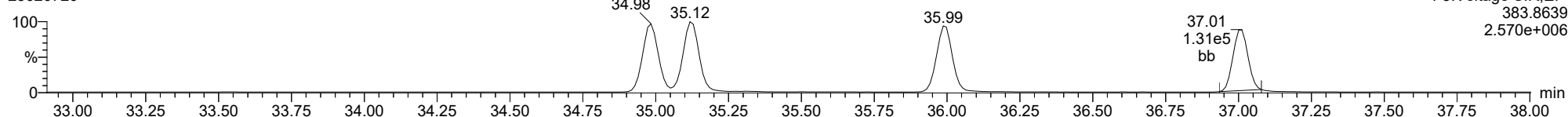
123789-HxCDF

23020720



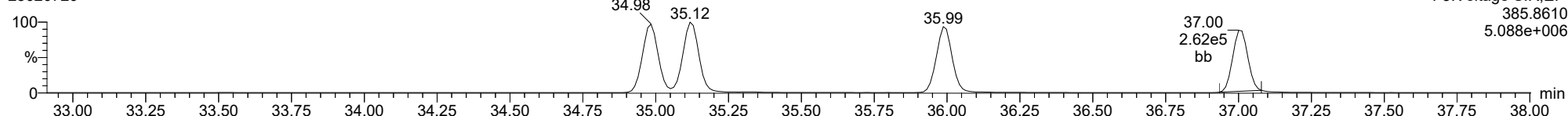
13C-123789-HxCDF

23020720



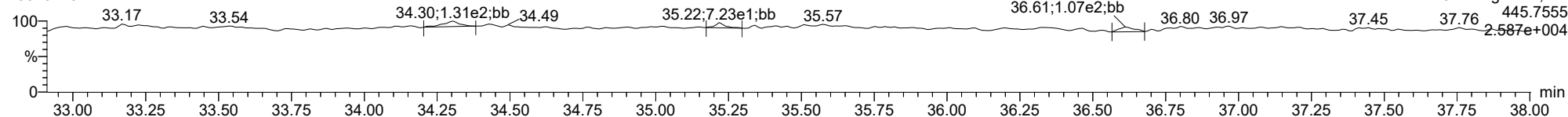
13C-123789-HxCDF

23020720



FUNCTION3 OCDPE

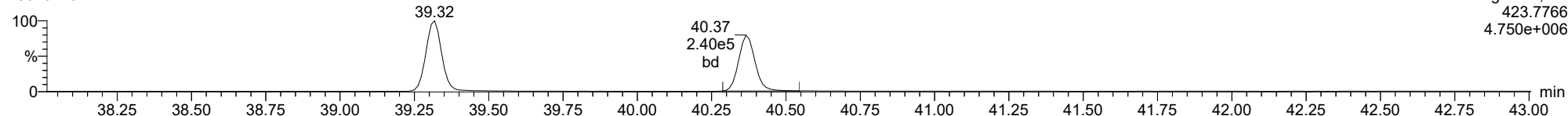
23020720



ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

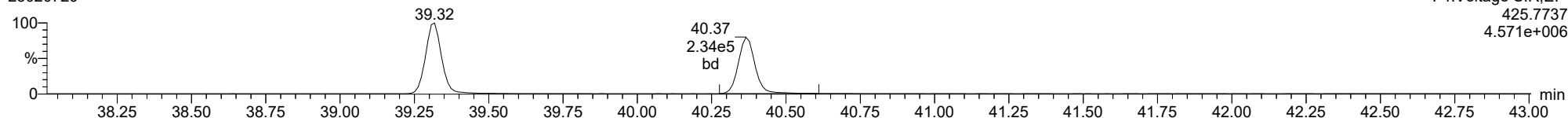
1234678-HpCDD

23020720



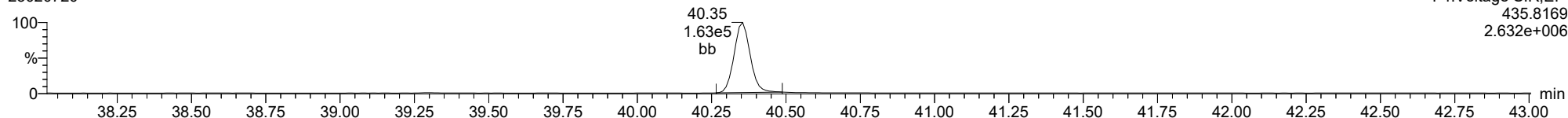
1234678-HpCDD

23020720



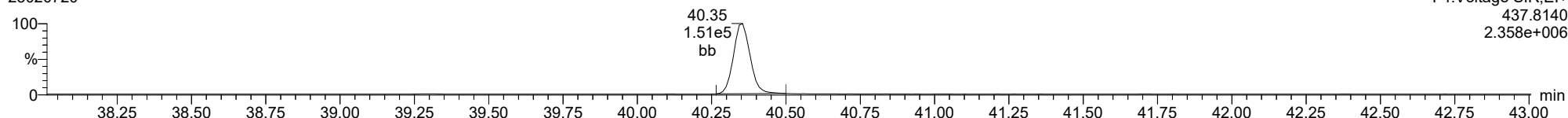
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23020720



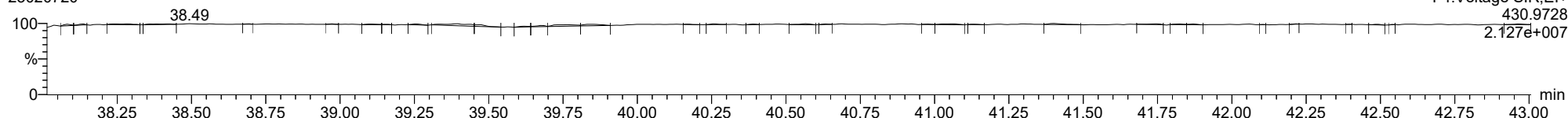
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23020720



FUNCTION4 PFK

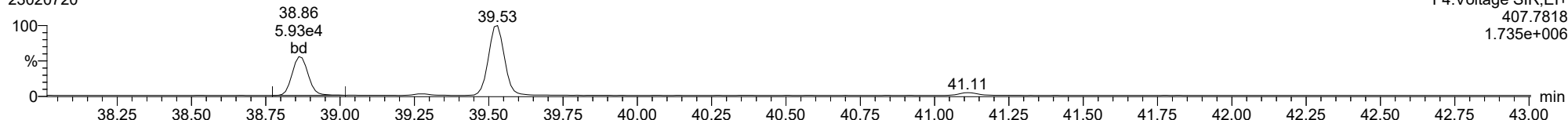
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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

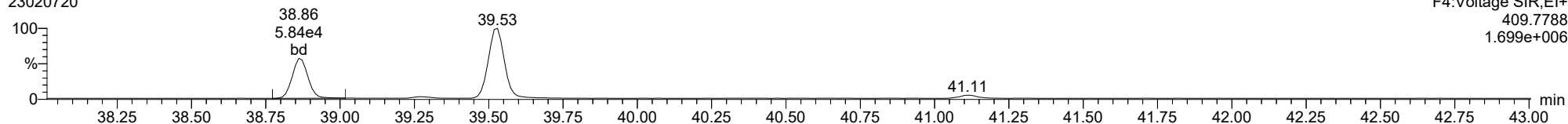
23020720



F4:Voltage SIR,EI+
407.7818
1.735e+006

1234678-HpCDF

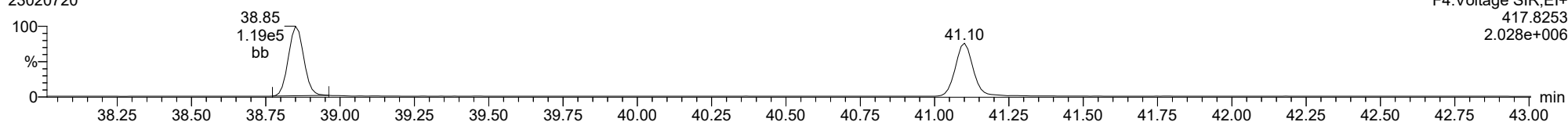
23020720



F4:Voltage SIR,EI+
409.7788
1.699e+006

13C-1234678-HpCDF

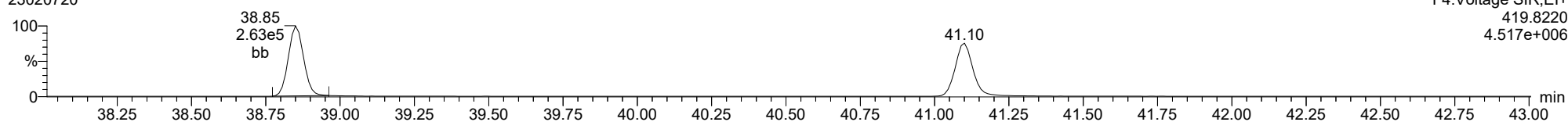
23020720



F4:Voltage SIR,EI+
417.8253
2.028e+006

13C-1234678-HpCDF

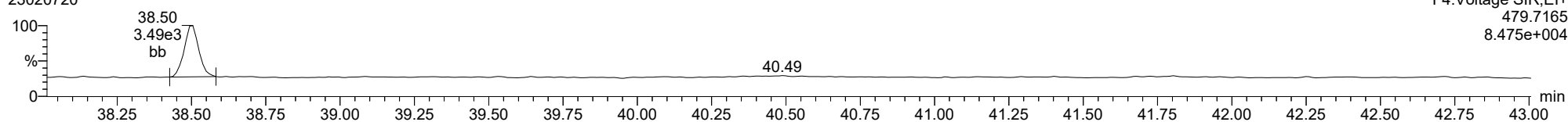
23020720



F4:Voltage SIR,EI+
419.8220
4.517e+006

FUNCTION4 NCDPE

23020720

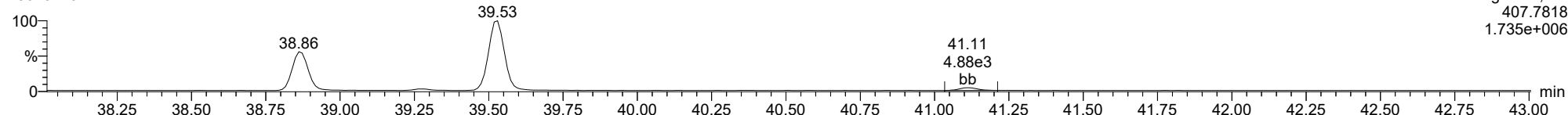


F4:Voltage SIR,EI+
479.7165
8.475e+004

ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

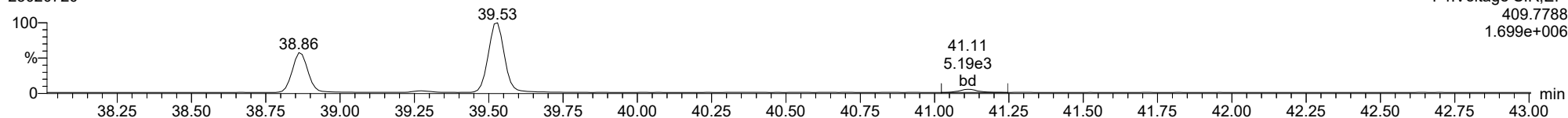
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23020720



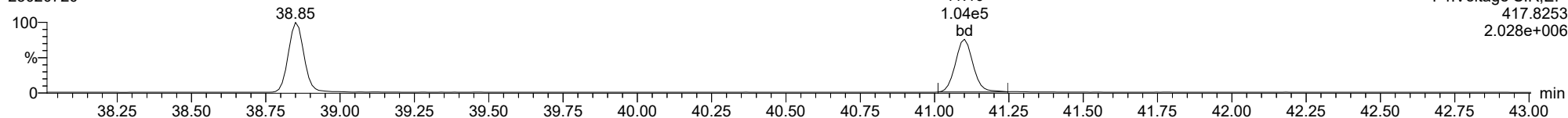
1234789-HpCDF

23020720



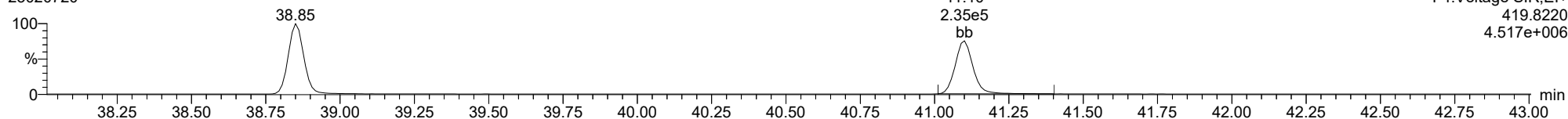
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23020720



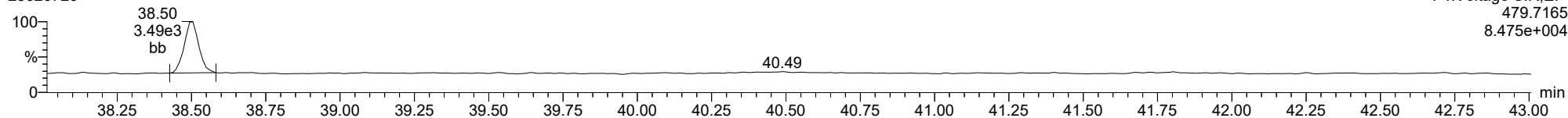
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23020720



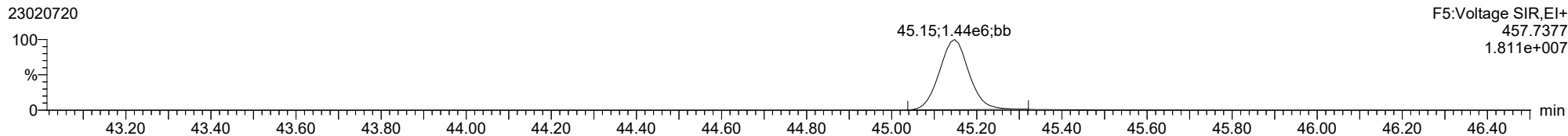
FUNCTION4 NCDPE

23020720

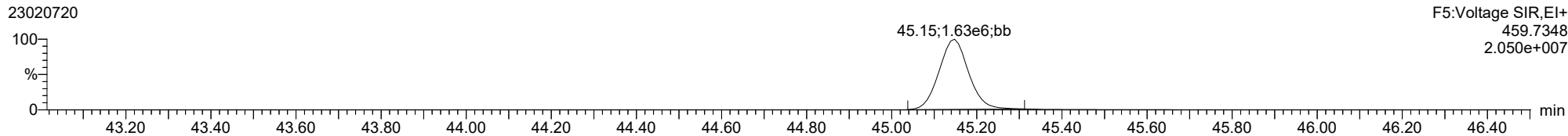


ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

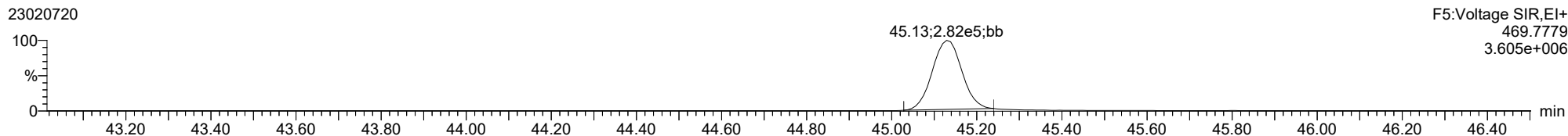
OCDD



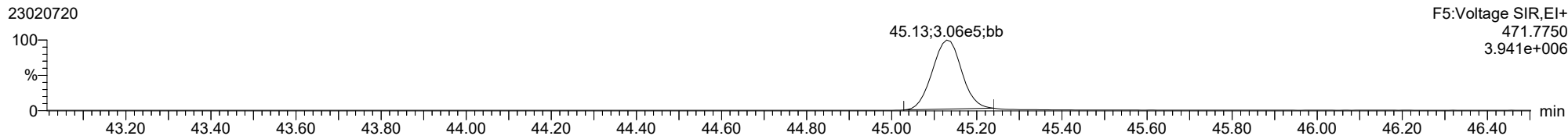
OCDD



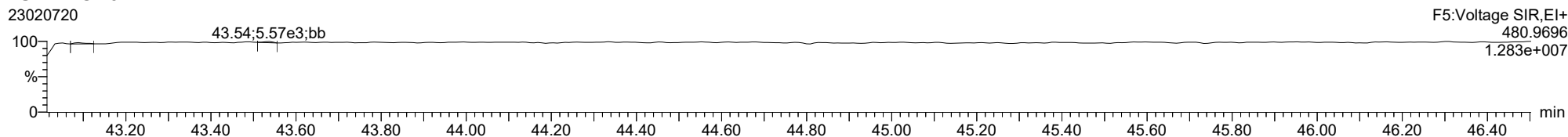
13C-OCDD



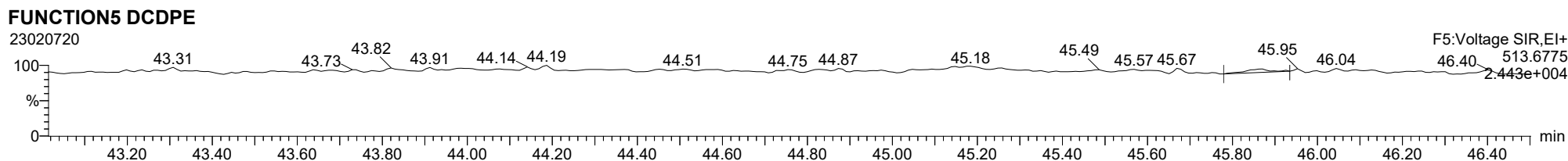
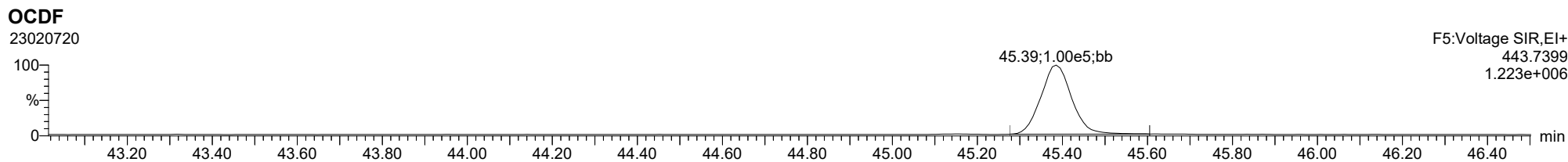
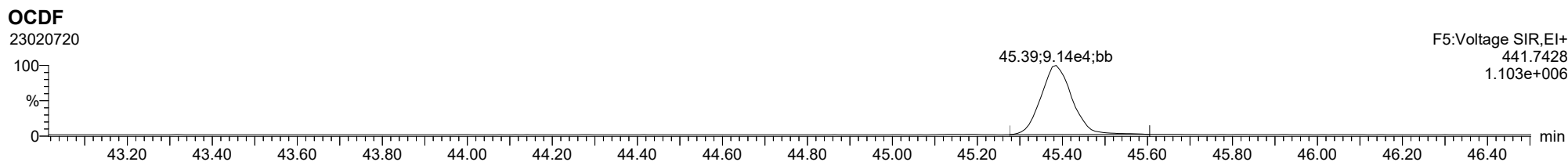
13C-OCDD



FUNCTION5 PFK



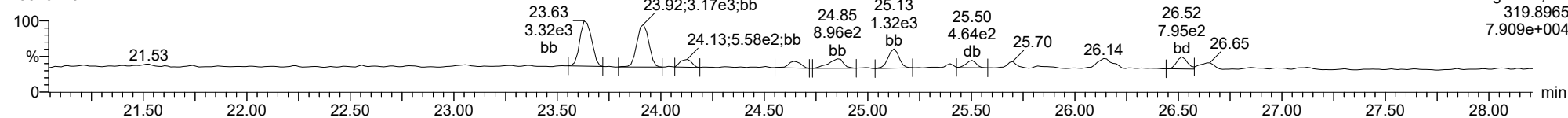
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ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

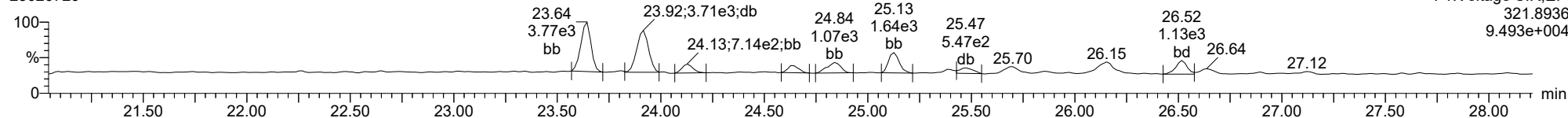
Total-tetradoxins

23020720



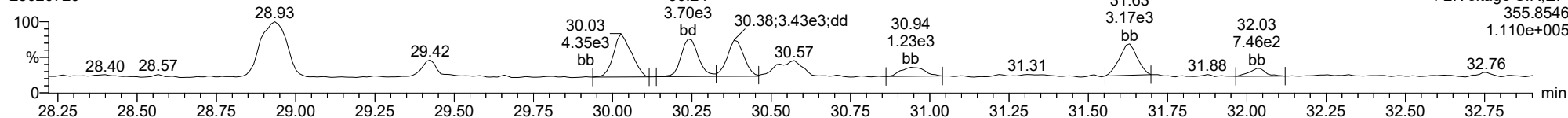
Total-tetradoxins

23020720



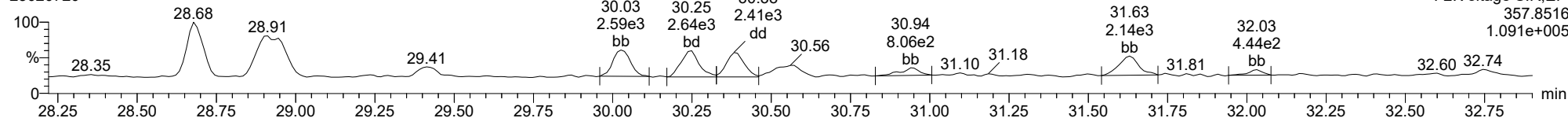
Total-pentadoxins

23020720



Total-pentadoxins

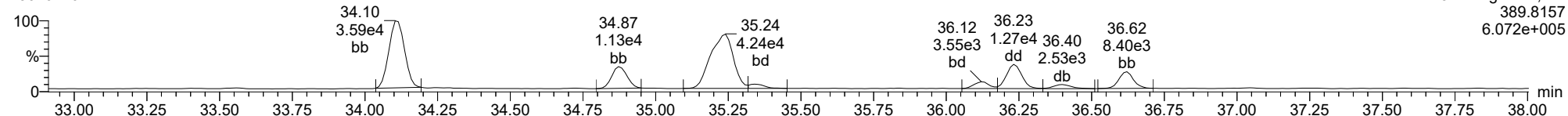
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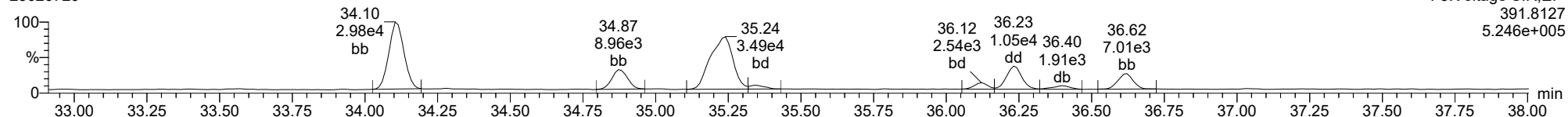
Total-hexadioxins

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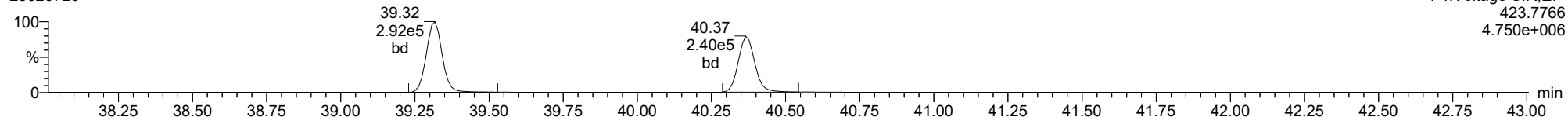
Total-hexadioxins

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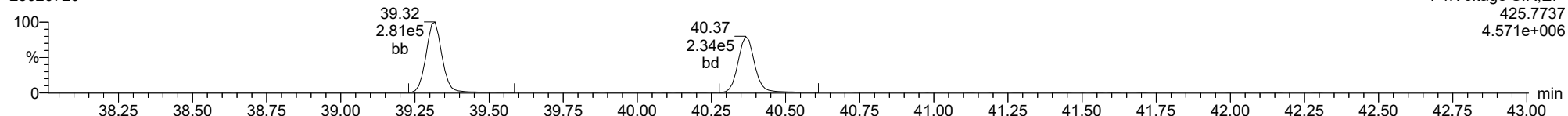
Total-heptadioxins

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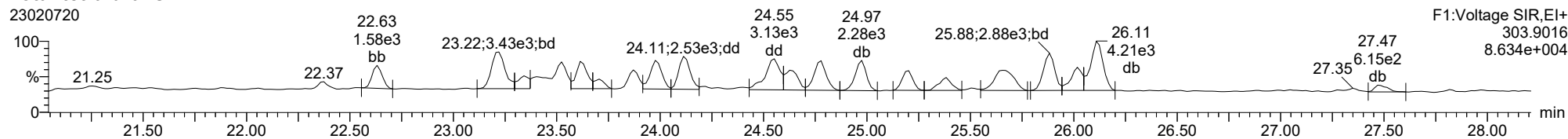
Total-heptadioxins

23020720

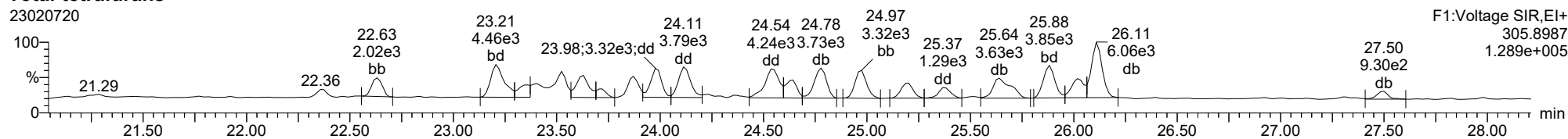


ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

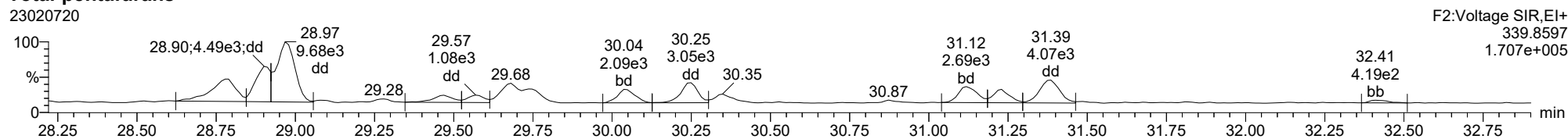
Total-tetrafurans



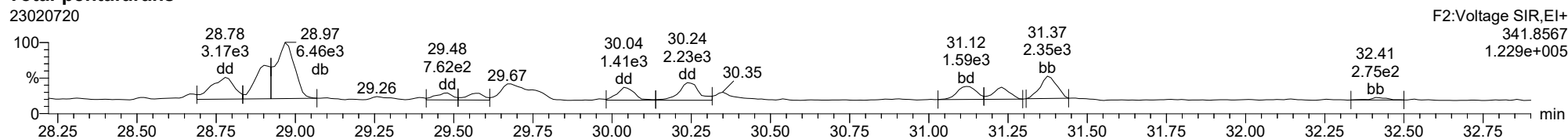
Total-tetrafurans



Total-pentafurans



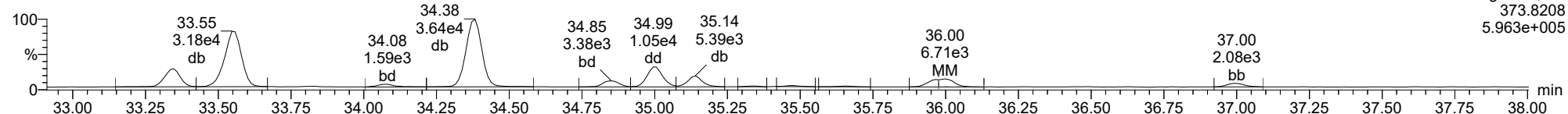
Total-pentafurans



ID: 22L0473-11, Name: 23020720, Date: 08-Feb-2023, Time: 00:46:02, Conditions: AUTOSPEC01, User: pk

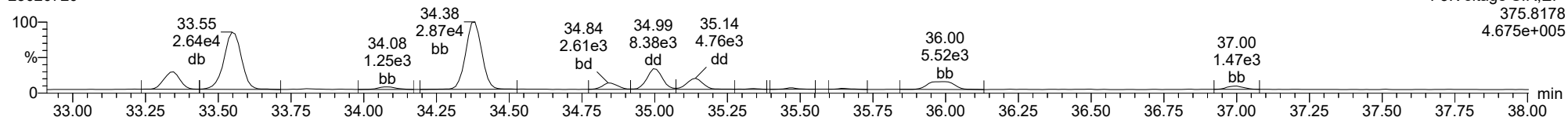
Total-hexafurans

23020720



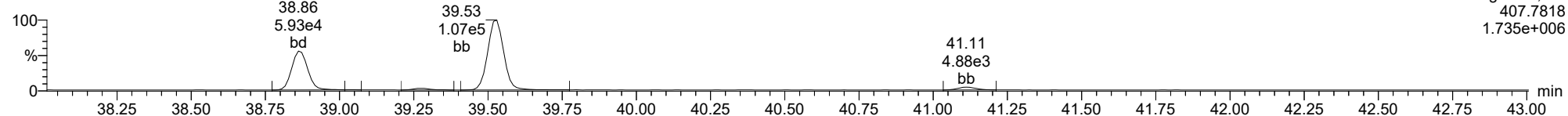
Total-hexafurans

23020720



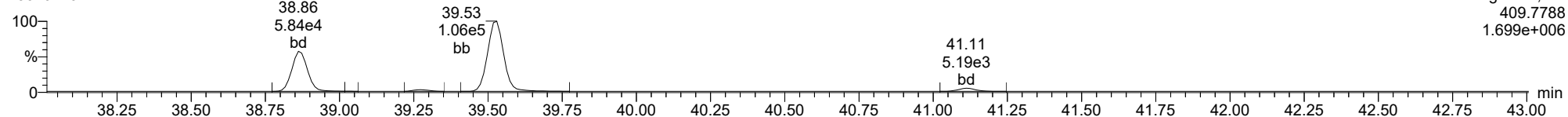
Total-heptafurans

23020720



Total-heptafurans

23020720





Analytical Resources, LLC
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A or 1613B

Batch: BLA0079
Solid Samples

ARI Work Orders: 22L0383, 22L0417, 22L0459, 22L0473

Matrix (circle one)	<u>Soil</u>	Sediment	Oil	Tissue
Extraction Method	Start Date/Time:	End Date/Time:		
<u>Soxhlet</u>	<u>1/9/23 15:50</u>	<u>1/16/23 08:50</u>		

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Glasswool		<u>5012850</u>	<u>DR</u>	<u>1/12/23</u>
Basic Silica		<u>K002255</u>	<u>DR</u>	<u>1/12/23</u>
Acid Silica		<u>K011012</u>	<u>DR</u>	<u>1/12/23</u>
Activated Florisil		<u>K005956</u>	<u>DR</u>	<u>1/12/23</u>
Balance		<u>24650344</u>	<u>DR</u>	<u>1/9/23</u>
Toluene		<u>K011233</u>	<u>DR</u>	<u>1/9/23</u>
Hexane		<u>K011373</u>	<u>DR</u>	<u>1/10/23</u>
CH2Cl2		<u>K005942</u>	<u>DR</u>	<u>1/12/23</u>
H2SO4		<u>K009796</u>	<u>DR</u>	<u>1/11/23</u>
Na2SO4		<u>K01755</u>	<u>DR</u>	<u>1/9/23</u>
Other (RM)		<u>K011477</u>	<u>DR</u>	<u>1/9/23</u>
0% Silica		<u>K011054</u>	<u>DR</u>	<u>1/12/23</u>
Nonane		<u>H006038</u>	<u>DR</u>	<u>1/13/23</u>

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date
Recovery Standard	1.0 mL	<u>K011158</u>	2/4 ng/mL	<u>12/2/23</u>
OPR	1.0 mL	<u>K006003</u>	0.21/0.2/0 ng/mL	<u>6/30/23</u>
Clean-up Standard	1.0 mL	<u>K011159</u>	0.8 ng/mL	<u>12/2/23</u>

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g) (Target Dry)	Actual	RotoVap °C	Water Trap Vol (mL)	Final Vol. (mL)
22L0383-06 C	LDW23-SC1191B	63.76	15.68	15.70	45	5.3	20
22L0383-07 C	LDW23-SC1191B-FD	62.08	16.11	16.17	10	5.5	20
22L0417-01 C	LDW23-SC1064C	61.93	16.15	16.18	12	5.8	20
22L0417-02 C	LDW23-SC1065C	53.77	18.60	19.65	10	8.3	20
22L0417-03 C	LDW23-SC1060D	58.48	17.10	17.13	12	6.1	20
22L0417-04 C	LDW23-SC1059C	57.13	17.50	17.54	10	6.9	20
22L0417-06 C	LDW23-SC1046C	54.02	18.51	18.54	12	7.5	20
22L0417-07 C	LDW23-SC1143C	56.88	17.58	17.62	12	7.1	20
22L0459-02 A	LDW23-SC1035C	59.42	16.83	16.83	12	6.5	20
22L0459-06 A	LDW23-SC1070B	54.78	18.26	18.31	10	8.0	20
22L0473-11 A	LDW21-IT692A	65.83	15.19	15.22	12	4.9	20
BLA0079-BLK1	Blank	100	0	0.01	12	0.0	20
BLA0079-BS1	LCS	100	0	10.01	12	0.0	20
BLA0079-DUP1	22L0383-06C	63.76	15.68	15.70	12	5.2	20
BLA0079-SRM1	Reference	100	0	10.00	12	0.1	20
Prep Analyst / Date:	<u>DR</u> / <u>1/14/23</u>						

Verify Client ID

Analyst / Date: DR / 1/9/23

Acid Clean Y/N

Silica-Florisil Clean Y/N

Analyst / Date: DR / 1/11/23

Analyst / Date: DR / 1/12/23

Supervisor Review By: [Signature] Date: 1/12/23



Analytical Resources, LLC
Analytical Chemists and Consultants

HRCOMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A or 1613B

Batch: BLA0079
Solid Samples

ARI Work Orders:	22L0383, 22L0417, 22L0459, 22L0473		
Matrix (circle one)	<input checked="" type="checkbox"/> Soil	Sediment	Oil Tissue
Extraction Method	Start Date/Time:	End Date/Time:	
<input checked="" type="checkbox"/> Sorblet	<input type="checkbox"/> epF Shake out		
Reagents/Equipment Used	NA	ID / Lot Number	Initials
Glasswool			
Basic Silica			
Acid Silica			
Activated Florisil			
Balance		24650344	
Toluene			
Hexane			
CH2Cl2			
H2SO4			
Na2SO4			
Other (RM)		K011477	
0% Silica			
Nonane			
Standards Used	Vol	ID / Lot Number	Concentration
Recovery Standard	1.0 mL		2/4 ng/mL
OPR	1.0 mL		0.21/0.2.0 ng/mL
22L Standards	1.0 mL		0.000000 mg/mL
Clean-up Standard	1.0 mL		0.8 ng/mL

Lab Number & Container	Sample Name	% Solids	Sample Weight (g) (Target Dry) Actual	Roto/Vap °C	Water Trap Vol (mL)	Final Vol (mL)
22L0383-06 C	LDW23-SC1191B	63.76	(15.66)	1/2		20
22L0383-07 C	LDW23-SC1191B+D	62.08	(16.11)	1/2		20
22L0417-01 C	LDW23-SC1064C	61.93	(16.15)	1/2		20
22L0417-02 C	LDW23-SC1065C	53.77	(18.60)	1/2		20
22L0417-03 C	LDW23-SC1060D	58.48	(17.10)	1/2		20
22L0417-04 C	LDW23-SC1059C	57.13	(17.50)	1/2		20
22L0417-06 C	LDW23-SC1046C	54.02	(18.51)	1/2		20
22L0417-07 C	LDW23-SC1143C	56.88	(17.58)	1/2		20
22L0459-02 A	LDW23-SC1059C	59.42	(16.83)	1/2		20
22L0459-06 A	LDW23-SC1070B	54.78	(18.26)	1/2		20
22L0473-11 A	LDW21-TR62A	65.83	(15.19)	1/2		20
BLA0079-BLK1	Blank	100	0	1/2		20
BLA0079-BS1	LCS	100	0	1/2		20
BLA0079-DUP1	22L0383-06C Reference	63.76	(15.66)	1/2		20
BLA0079-SRM1	Reference	100	0	1/2		20

Verify Client ID	Analyst / Date:
Acid Clean	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
Silica Florisil Clean	<input checked="" type="checkbox"/> Y / <input type="checkbox"/> N

Supervisor Review By _____ Date _____

TOTAL SOLIDS BENCHSHEET

Method HRSM01.2

(dry at 110 C)

Instrumentation

Batch drying time

Batch:	BLA0004
Date:	
Analyst:	TW
Drying Oven:	18
Analytical Balance:	24650344

Record times as mm/dd/yy hh:mm	Oven Temp, C	TS (%) calculated as:
Date/time in oven: 1/3/2023 13:50	111	Final dry wt (g) = (Dry Wt - Tare Wt)
Date/time out: 1/4/2023 7:35	111	TS = (Final Dry Wt X 100) / (sample & dish - dish tare)
Elapsed hrs: 17.7		
Oven Temps, °C		
Start Temp:	111	
End Temp:	111	

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0383-06	0.7900	11.3300	7.5100	6.72	63.76%	No
22L0383-07	0.7900	11.1000	7.1900	6.40	62.08%	No
22L0417-01	0.8000	11.4900	7.4200	6.62	61.93%	No
22L0417-02	0.8000	11.2700	6.4300	5.63	53.77%	No
22L0417-03	0.8000	11.3500	6.9700	6.17	58.48%	No
22L0417-04	0.7900	11.1000	6.6800	5.89	57.13%	No
22L0417-06	0.7800	11.2400	6.4300	5.65	54.02%	No
22L0417-07	0.8000	11.0500	6.6300	5.83	56.88%	No
22L0459-02	0.7900	11.4100	7.1000	6.31	59.42%	No
22L0459-06	0.7900	11.4700	6.6400	5.85	54.78%	No
22L0473-11	0.7900	11.1800	7.6300	6.84	65.83%	No

TOTAL SOLIDS BENCHSHEET

Method HRSM01.2

(dry at 110 C)

Batch: BLA0004

Date:

Analyst: TW

Drying Oven: 18

Analytical Balance: 24650344

Batch drying time

Record times as mm/dd/yy hh:mm

Date/time in oven:

01/03/23

13:50

Oven Temp, C 111

TS (%) calculated as:

Date/time out:

01/04/23

07:35

111

Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt X 100) / (sample & dish - dish tare)

Oven Temps, °C

Start Temp: 111

End Temp: 111

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0383-06 C	0.79	11.33 11.36 ^{11.31}	7.51			No
22L0383-07 C	0.79	11.10	7.19			No
22L0417-01 C	0.80	11.49	7.42			No
22L0417-02 C	0.80	11.27	6.43			No
22L0417-03 C	0.80	11.35	6.97			No
22L0417-04 C	0.79	11.10	6.68			No
22L0417-06 C	0.78	11.24	6.43			No
22L0417-07 C	0.80	11.05	6.63			No
22L0459-02 A	0.79	11.41	7.10			No
22L0459-06 A	0.79	11.47	6.64			No
22L0473-11 A	0.79	11.18	7.63			No



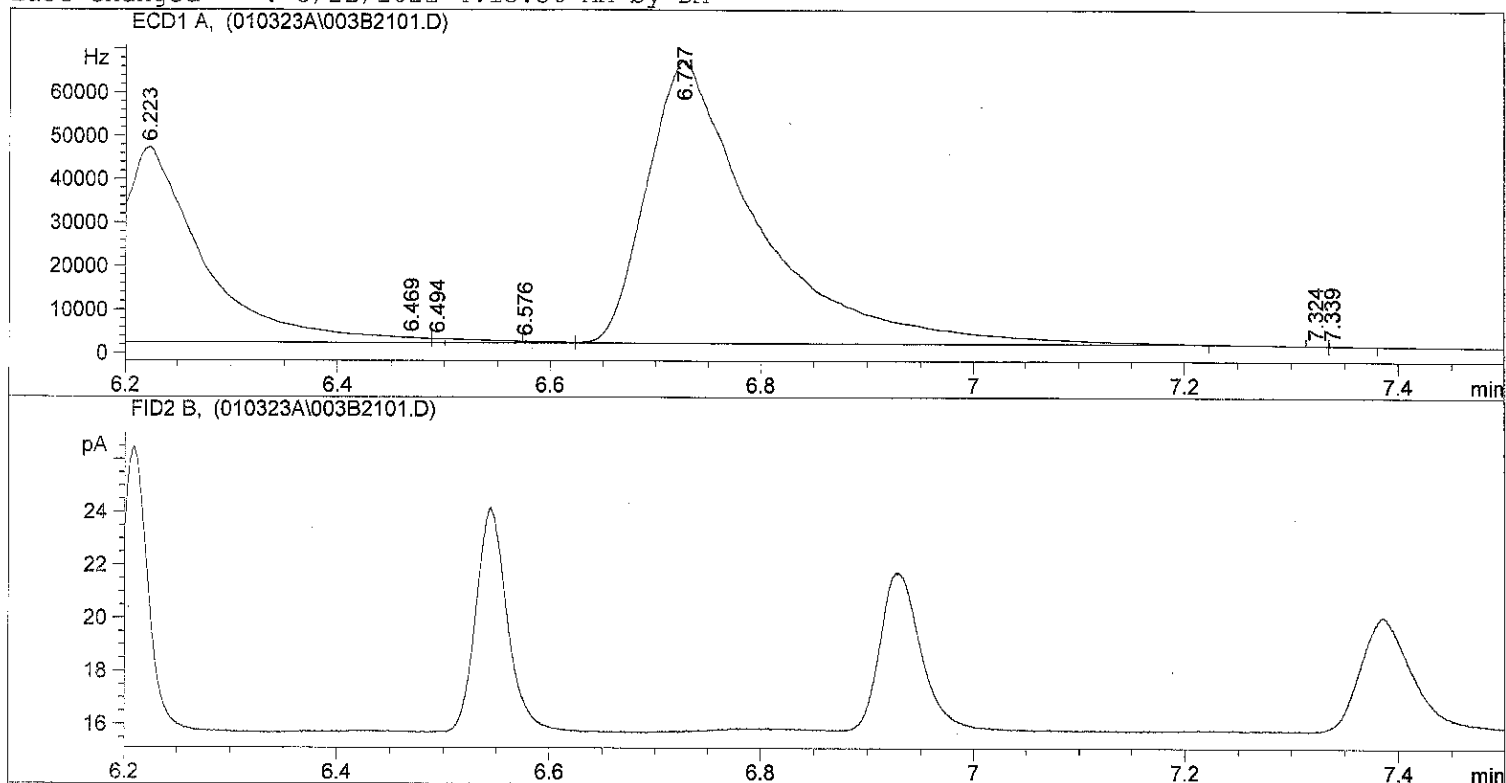
Extraction Parameter: P10Xin
Extraction Batch: _____

Total Solids Batch: BLA 4444
Work Order(s): 22L4383, 417, 459, 473

Screens:	Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=		
<input type="checkbox"/> Standing Water Decanted (Not shared)=		
<input checked="" type="checkbox"/> Standing Water Homogenized (Shared samples)= <u>473-11</u>		<u>TW 11/3/23</u>
<input checked="" type="checkbox"/> Clay/Clumps (Difficult to homogenize)= <u>383-6,7, 417-01-07, 473-11, 459-21 (all samples)</u>		<u>TW 11/3/23</u>
<input type="checkbox"/> Rocks (%+size)?		
<input type="checkbox"/> Organics (Leaves/sticks/grass)=		
<input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= <u>383-6,7, 417-04,07</u>		<u>TW 11/3/23</u>
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=		
<input type="checkbox"/> Previously Frozen =		
<input checked="" type="checkbox"/> Other (Details)= <u>22L4417-06C. Due to extracting cycles error, the Pb was not received extracting solvent, only the smelter body had solvent in it.</u>		<u>m 11/14/23</u>
<input type="checkbox"/> 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 type="checkbox"/> Other Notes/Comments=(Note problems, concerns, corrective actions).		
<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-Screens=		

```

=====
Injection Date : 1/3/2023 6:53:23 PM      Seq. Line : 21
Sample Name    : CS4 STD                   Location  : Vial 3
Acq. Operator  : TW                       Inj       : 1
                                           Inj Volume: 1 µl
Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.293	BP	0.0000	106.69516	133.59196	0.00380
2	5.389	VP	0.0225	496.67911	266.79819	0.01769
3	5.533	VV S	0.0374	4.58197e5	1.71557e5	16.31798
4	5.627	VV S	0.0533	6.82990e5	2.13734e5	24.32365
5	5.689	VV S	0.0414	2.19052e5	8.82179e4	7.80119
6	5.736	VV S	0.0782	3.13360e5	6.67528e4	11.15984
7	5.984	VV S	0.0459	2.60904e5	6.97312e4	9.29169
8	6.140	VV S	0.0571	1.54606e5	4.51472e4	5.50608
9	6.223	VV S	0.0906	2.44631e5	4.49807e4	8.71216
10	6.469	BV T	7.53e-3	30.57404	67.63464	0.00109
11	6.494	PB T	5.06e-3	11.95522	31.28901	0.00043
12	6.576	BB T	5.24e-3	9.54696	30.39002	0.00034
13	6.727	PB S	0.0860	4.73478e5	6.51325e4	16.86221
14	7.324	PV	9.15e-3	18.31886	25.00640	0.00065
15	7.339	VP	0.0139	32.77481	28.73493	0.00117
16	7.690	PB	0.0000	9.49007e-1	6.44988	3.380e-5

Totals : 2.80792e6 7.65844e5

Results obtained with enhanced integrator!

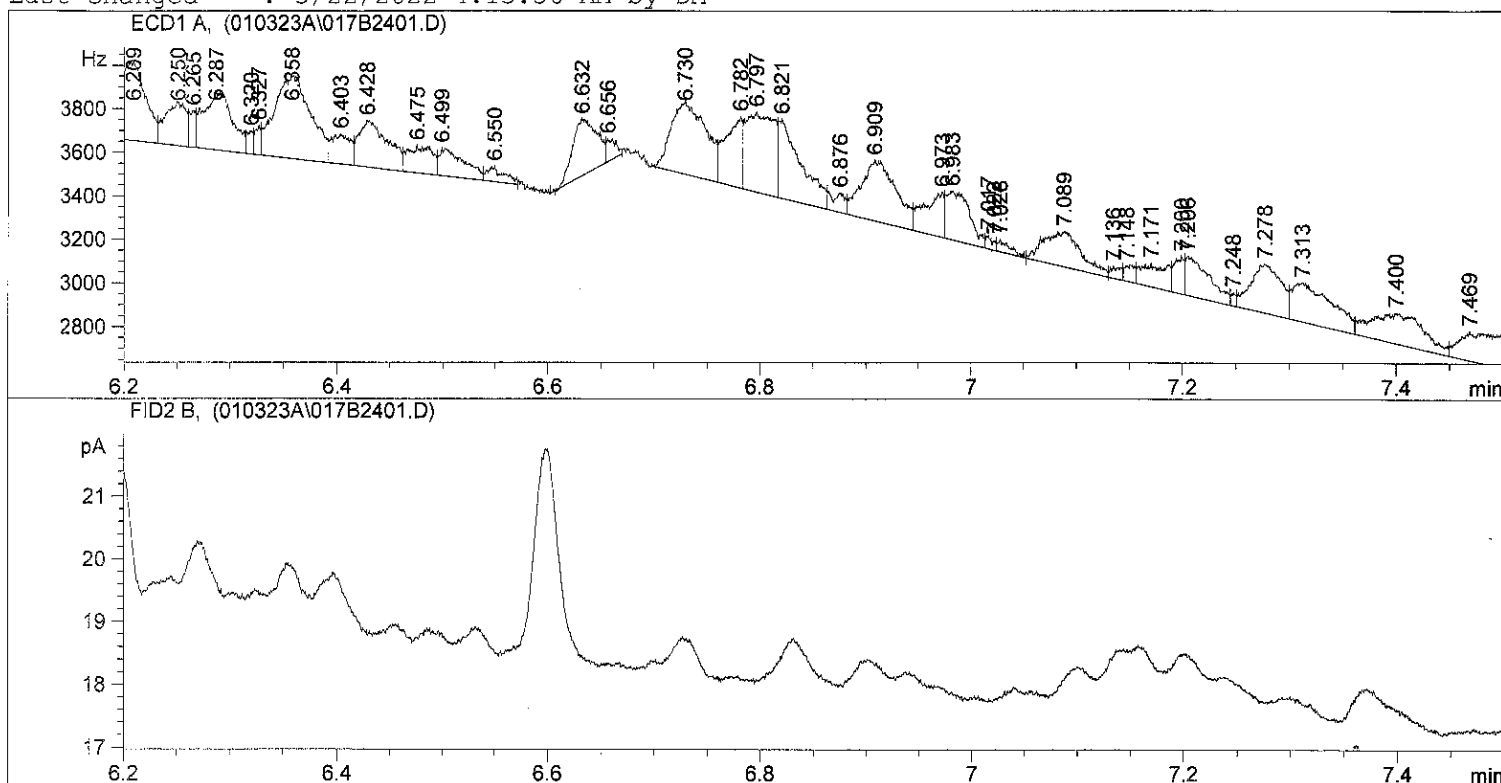
Signal 2: FID2 B,

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*** End of Report ***

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=====
Injection Date : 1/3/2023 7:26:35 PM      Seq. Line : 24
Sample Name    : 22L0383 06                Location  : Vial 17
Acq. Operator : TW                        Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.252	BV	0.0270	2450.94556	1123.83521	6.42335
2	5.295	VV	0.0124	160.12622	166.60695	0.41965
3	5.321	VB	8.69e-3	71.05394	107.74626	0.18622
4	5.333	BV	3.41e-3	38.29887	158.95576	0.10037
5	5.337	VV	5.05e-3	53.81184	166.90117	0.14103
6	5.342	VV	5.77e-3	76.14543	171.91643	0.19956
7	5.374	VV	0.0165	635.90656	478.97159	1.66656
8	5.402	VV	5.81e-3	52.16253	126.50735	0.13671
9	5.447	VV	0.0229	1201.29163	632.99457	3.14830
10	5.474	VV	0.0192	2213.41040	1539.55225	5.80083
11	5.511	VV	0.0188	869.61145	564.24060	2.27905
12	5.547	VP	2.29e-3	3.26185	22.53971	0.00855
13	5.582	VV	0.0223	912.98236	495.29980	2.39271
14	5.624	VV	0.0295	2188.48071	949.16693	5.73549
15	5.689	VV	0.0281	2970.34375	1268.96704	7.78457
16	5.753	VV	0.0226	1683.81140	927.41345	4.41287
17	5.785	VV	0.0118	350.53735	364.49149	0.91868

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.814	VV	0.0245	939.88428	463.16354	2.46321
19	5.866	VV	0.0232	1323.90674	700.67627	3.46965
20	5.891	VV	8.65e-3	210.66354	406.06088	0.55210
21	5.909	VV	0.0177	631.39270	468.25397	1.65473
22	5.942	VV	0.0142	803.41187	691.57275	2.10555
23	5.952	VV	0.0216	1223.11633	722.34296	3.20550
24	6.006	VV	0.0368	2246.80664	731.39362	5.88835
25	6.036	VV	0.0171	782.19550	552.45636	2.04995
26	6.075	VV	0.0136	303.25388	272.73669	0.79476
27	6.090	VV	4.57e-3	87.45538	270.30881	0.22920
28	6.113	VV	0.0161	442.93610	338.00369	1.16083
29	6.123	VV	0.0148	359.00482	332.78226	0.94087
30	6.146	VV	0.0105	143.06818	226.66055	0.37495
31	6.209	VV	0.0402	1189.56226	361.60034	3.11756
32	6.250	VV	0.0165	268.63269	200.11443	0.70402
33	6.265	VV	5.34e-3	71.18099	168.03104	0.18655
34	6.287	VV	0.0226	506.86343	268.41742	1.32837
35	6.320	VV	5.56e-3	42.89101	105.11924	0.11241
36	6.327	VV	4.61e-3	46.18874	134.50960	0.12105
37	6.358	VV	0.0284	897.90948	380.03348	2.35321
38	6.403	VV	0.0152	167.65300	137.60904	0.43938
39	6.428	VV	0.0230	408.28702	212.91710	1.07002
40	6.475	VV	0.0193	199.73030	124.84668	0.52345
41	6.499	VB	0.0205	215.91005	126.54025	0.56585
42	6.550	BB	0.0139	78.91711	70.45654	0.20682
43	6.632	PV	0.0188	406.51639	260.31357	1.06538
44	6.656	VB	7.53e-3	62.10795	104.61562	0.16277
45	6.730	PV	0.0272	759.69287	332.99802	1.99098
46	6.782	VV	0.0133	356.04651	327.50986	0.93311
47	6.797	VV	0.0221	669.80493	366.50922	1.75540
48	6.821	VB	0.0253	547.92126	360.81329	1.43597
49	6.876	BV	0.0113	80.21185	91.01910	0.21022
50	6.909	VV	0.0277	644.96759	278.09946	1.69031
51	6.973	VV	0.0150	256.82700	207.49214	0.67308
52	6.983	VV	0.0201	357.58542	223.36781	0.93715
53	7.017	VV	4.23e-3	19.27159	61.98693	0.05051
54	7.022	VV	3.25e-3	9.30879	44.39545	0.02440
55	7.028	VP	9.29e-3	42.97784	56.40430	0.11263
56	7.089	VV	0.0290	394.05838	163.31430	1.03273
57	7.136	VV	8.89e-3	37.52074	52.82019	0.09833
58	7.148	VB	9.00e-3	48.59481	69.12946	0.12736
59	7.171	BV	0.0205	184.83725	107.50410	0.48441
60	7.200	VV	8.98e-3	110.48597	170.02904	0.28956
61	7.206	VV	0.0194	285.38571	179.10814	0.74793
62	7.248	VV	4.28e-3	17.34392	58.19840	0.04545
63	7.278	VV	0.0239	448.35416	224.36079	1.17503
64	7.313	VV	0.0324	479.79926	178.39676	1.25744
65	7.400	VV	0.0408	479.40845	139.73352	1.25642
66	7.469	VP	0.0673	746.45129	130.63057	1.95627
67	7.621	VV	0.0383	935.74780	289.88376	2.45237
68	7.688	VB	0.0135	109.03802	98.91035	0.28576
69	7.711	BB	0.0139	103.80149	92.27792	0.27204
70	7.775	PBA	0.0141	39.74480	37.81453	0.10416

Totals : 3.81568e4 2.24404e4

Results obtained with enhanced integrator!

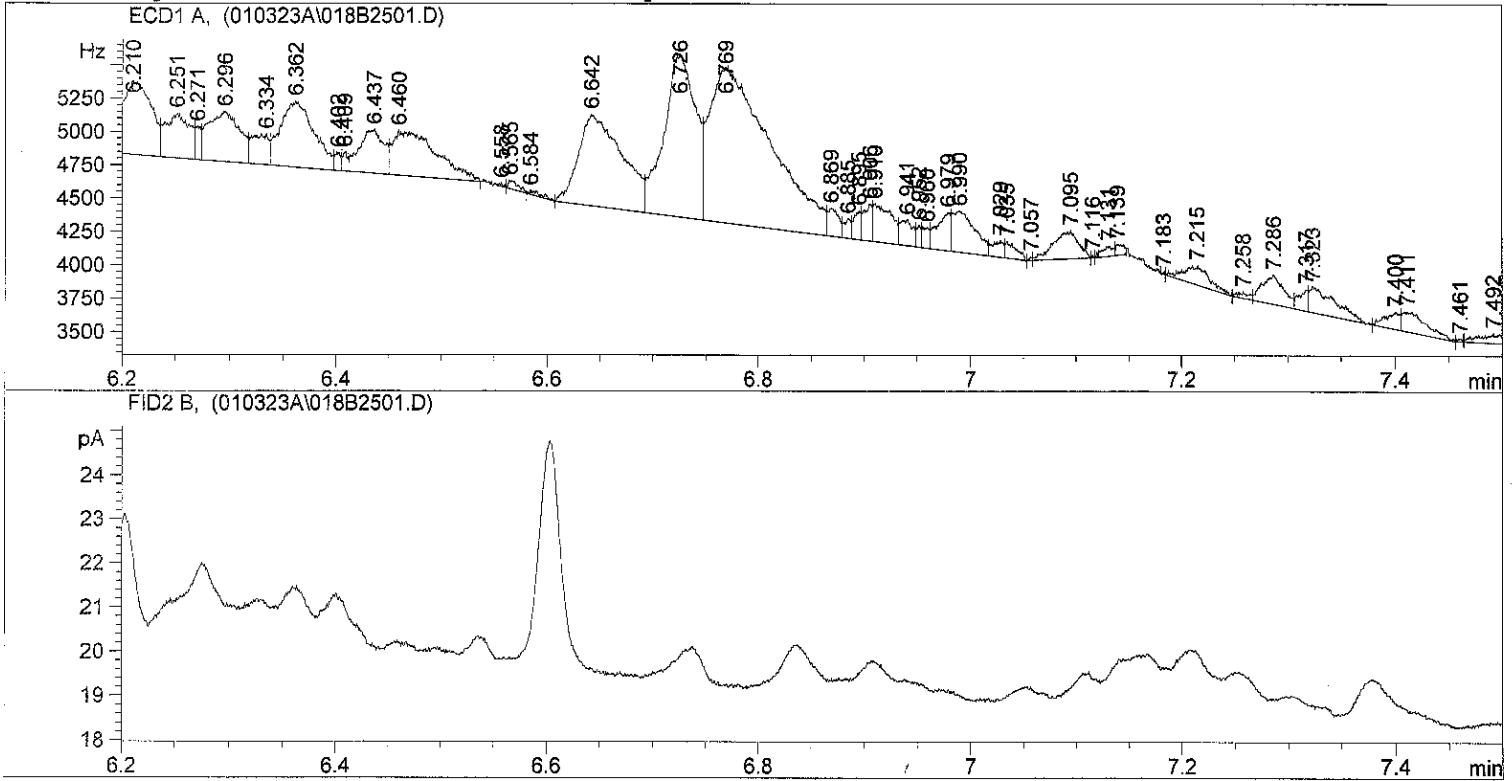
Signal 2: FID2 B,

*** End of Report ***


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=====
Injection Date : 1/3/2023 7:37:33 PM      Seq. Line : 25
Sample Name    : 22L0383 07                Location  : Vial 18
Acq. Operator  : TW                        Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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
    
```

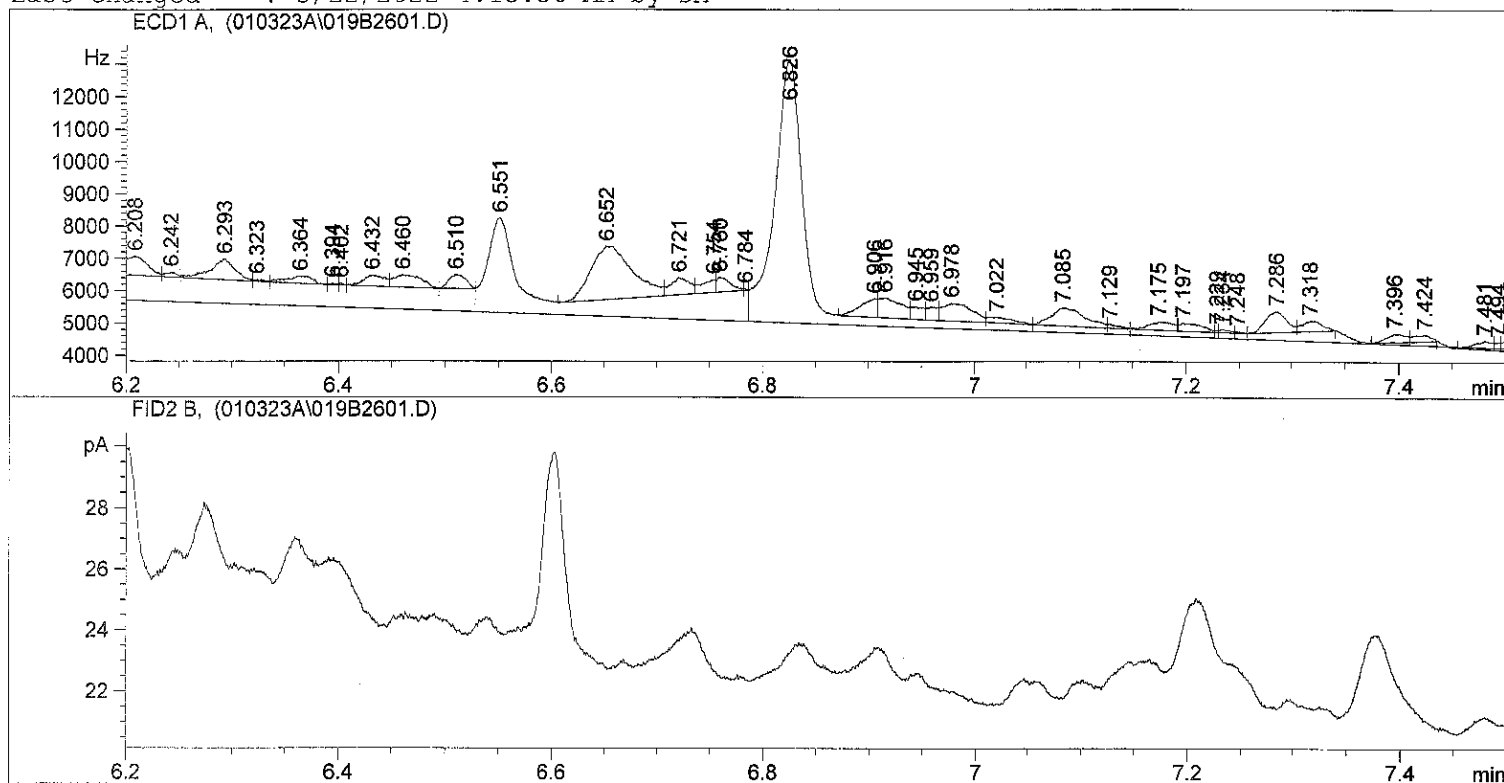
Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.232	BP	0.0213	1684.61792	957.56555	2.88219
2	5.294	VV	4.71e-3	39.94383	113.36611	0.06834
3	5.299	VP	0.0142	168.08362	143.72072	0.28757
4	5.335	VV	3.83e-3	15.85341	57.18743	0.02712
5	5.341	VP	7.52e-3	33.72766	74.73104	0.05770
6	5.376	VV	0.0163	922.93066	676.29639	1.57903
7	5.396	VV	5.63e-3	181.24162	437.61221	0.31008
8	5.418	VV	0.0145	624.60181	531.85553	1.06862
9	5.444	VV	0.0208	1970.90027	1138.21631	3.37199
10	5.476	VV	0.0202	2758.14258	1827.19617	4.71887
11	5.510	VP	0.0159	900.05322	696.83539	1.53989
12	5.578	VV	0.0151	719.93549	587.57928	1.23173
13	5.585	VV	0.0127	623.21674	599.63818	1.06625
14	5.603	VV	7.57e-3	206.11601	453.93466	0.35264
15	5.627	VV	0.0241	2879.85010	1507.44995	4.92710
16	5.690	VV	0.0293	4849.80420	2002.56982	8.29747
17	5.756	VV	0.0304	3490.87598	1424.57935	5.97250

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.815	VV	0.0257	1670.11841	790.12988	2.85738
19	5.870	VV	0.0256	2301.94922	1075.04114	3.93838
20	5.920	VV	0.0207	1473.08057	864.57544	2.52028
21	5.952	VV	0.0298	2795.62646	1130.79309	4.78300
22	5.985	VV	0.0170	1399.56165	1017.54797	2.39449
23	6.007	VV	0.0379	3699.03369	1157.85986	6.32863
24	6.075	VV	5.57e-3	166.80553	445.41602	0.28539
25	6.081	VV	7.04e-3	187.80779	444.34860	0.32132
26	6.106	VV	0.0229	1073.90320	556.15820	1.83733
27	6.126	VV	0.0138	473.34399	425.66760	0.80984
28	6.167	VV	0.0150	485.74390	393.59265	0.83105
29	6.179	VV	7.89e-3	257.18851	411.46957	0.44002
30	6.182	VV	5.47e-3	174.56401	418.57196	0.29866
31	6.191	VV	5.06e-3	110.79615	364.84927	0.18956
32	6.210	VV	0.0232	1073.10132	553.63495	1.83596
33	6.251	VV	0.0184	522.35718	338.03543	0.89369
34	6.271	VV	6.27e-3	93.09422	247.38924	0.15927
35	6.296	VV	0.0247	758.70325	373.58075	1.29806
36	6.334	VV	0.0130	241.66554	227.97163	0.41346
37	6.362	VV	0.0263	1089.22803	494.96872	1.86355
38	6.402	VV	5.67e-3	53.50683	133.71298	0.09154
39	6.409	VV	4.65e-3	45.90274	139.10635	0.07853
40	6.437	VV	0.0195	524.04456	326.18890	0.89658
41	6.460	VP	0.0345	971.60590	333.99936	1.66231
42	6.558	BV	3.95e-3	5.63538	23.76278	0.00964
43	6.565	VP	8.15e-3	39.67926	59.72974	0.06789
44	6.584	VP	0.0110	26.17821	28.84491	0.04479
45	6.642	VV	0.0347	1990.42053	688.42834	3.40539
46	6.726	VV	0.0254	2546.03223	1216.15454	4.35597
47	6.769	VV	0.0474	4714.84473	1170.33044	8.06657
48	6.869	VV	9.40e-3	150.55800	209.19156	0.25759
49	6.885	VV	6.17e-3	64.19337	144.72658	0.10983
50	6.895	VV	6.78e-3	103.44212	216.25562	0.17698
51	6.906	VV	7.41e-3	151.27454	275.25363	0.25881
52	6.910	VV	0.0145	334.32410	280.55219	0.57199
53	6.941	VV	0.0116	160.57239	191.22858	0.27472
54	6.952	VV	4.05e-3	48.06670	162.68111	0.08224
55	6.960	VV	5.72e-3	68.04446	155.16284	0.11642
56	6.979	VV	0.0110	251.12019	285.93457	0.42964
57	6.990	VV	0.0192	461.71121	306.26978	0.78994
58	7.029	VV	8.74e-3	87.43252	125.32603	0.14959
59	7.035	VP	9.43e-3	91.13599	120.40237	0.15592
60	7.057	VV	2.24e-3	3.84664	28.66651	0.00658
61	7.095	VP	0.0198	343.19846	208.28479	0.58717
62	7.116	VV	1.63e-3	1.54139	17.49490	0.00264
63	7.131	VV	9.86e-3	53.39183	73.64507	0.09135
64	7.139	VB	6.40e-3	42.27280	82.16167	0.07232
65	7.183	PP	4.89e-4	3.74189e-1	12.75010	0.00064
66	7.215	VP	0.0200	230.16350	141.07365	0.39378
67	7.258	VV	0.0117	33.68524	45.36891	0.05763
68	7.286	VV	0.0175	311.92181	218.09323	0.53366
69	7.317	VV	7.53e-3	92.06932	159.68367	0.15752
70	7.323	VP	0.0202	334.92404	197.10120	0.57302
71	7.400	VV	0.0120	116.72746	124.05910	0.19971
72	7.411	VP	0.0200	241.79068	150.04805	0.41368
73	7.461	VV	4.89e-3	6.84189	20.49693	0.01171
74	7.492	VV	0.0220	127.60023	71.02222	0.21831
75	7.514	VB	0.0109	67.46964	76.27975	0.11543
76	7.587	PV	4.23e-3	18.85674	57.37859	0.03226
77	7.629	VV	0.0420	957.56995	271.43637	1.63829
78	7.684	VV	8.19e-3	77.58992	125.82802	0.13275
79	7.697	VV	6.86e-3	56.17827	112.55547	0.09611
80	7.702	VV	9.49e-3	91.49203	117.44596	0.15653
81	7.718	VB	0.0100	79.24531	102.35873	0.13558
82	7.735	BB	0.0158	89.95752	94.80706	0.15391


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Injection Date : 1/3/2023 7:48:46 PM      Seq. Line : 26
Sample Name    : 22L0417 01              Location  : Vial 19
Acq. Operator  : TW                      Inj      : 1
                                           Inj Volume: 1 µl
Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.230	BV	5.91e-3	24.68250	56.33179	0.01602
2	5.255	VV	0.0119	275.69089	283.44885	0.17895
3	5.275	VV	0.0148	408.04962	361.02008	0.26487
4	5.292	VV	4.84e-3	101.26926	292.54236	0.06573
5	5.306	VP	0.0144	349.58273	300.41406	0.22692
6	5.335	VV	8.58e-3	63.12813	94.62982	0.04098
7	5.375	VV S	0.0190	4051.58032	3077.67187	2.62991
8	5.436	VV S	0.0368	5897.83301	2667.69482	3.82832
9	5.475	VV S	0.0216	1.08532e4	8386.48340	7.04488
10	5.510	VV S	0.0655	6087.33203	1549.42615	3.95133
11	5.567	BV T	0.0108	115.82748	137.64966	0.07518
12	5.596	PV T	0.0173	939.62799	700.34326	0.60992
13	5.627	VV T	0.0110	232.52567	266.10602	0.15093
14	5.642	VV T	0.0137	267.42661	237.70604	0.17359
15	5.695	VV S	0.0241	6390.44824	3316.06396	4.14808
16	5.756	VV S	0.0228	1.34900e4	8444.02539	8.75647
17	5.814	VV S	0.4372	4.00127e4	1525.22705	25.97249

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.871	BV T	0.0180	1355.63147	931.12506	0.87995
19	5.897	VV T	7.53e-3	123.56402	243.10060	0.08021
20	5.907	VV T	0.0138	260.41104	249.22330	0.16903
21	5.950	VV T	0.0211	2348.76343	1339.17993	1.52460
22	5.987	VV T	0.0150	1412.71155	1163.36353	0.91700
23	5.995	VV T	5.20e-3	359.96402	1152.62598	0.23366
24	6.006	VV T	0.0164	1891.61426	1417.66553	1.22786
25	6.036	VB T	7.79e-3	113.86689	243.69109	0.07391
26	6.078	BV T	4.37e-3	30.93735	91.02296	0.02008
27	6.092	PV T	8.64e-3	158.78839	224.73283	0.10307
28	6.103	PV T	0.0175	334.15649	239.21234	0.21690
29	6.132	PV T	7.43e-3	62.99151	107.58592	0.04089
30	6.156	PV T	5.72e-3	68.23988	155.60374	0.04429
31	6.162	PV T	3.81e-3	58.13762	211.49760	0.03774
32	6.166	PV T	0.0114	161.60942	235.57347	0.10490
33	6.208	PV T	0.0244	1161.11426	579.48273	0.75369
34	6.242	PV T	8.36e-3	108.04767	158.35753	0.07013
35	6.293	PV T	0.0202	1027.83923	631.39526	0.66718
36	6.323	PV T	6.42e-3	30.40423	60.96338	0.01974
37	6.364	PV T	0.0205	375.34189	225.01843	0.24364
38	6.394	PV T	4.63e-3	17.05779	61.42159	0.01107
39	6.402	PV T	4.12e-3	15.01756	60.81511	0.00975
40	6.432	PV T	0.0169	473.09583	337.79126	0.30709
41	6.460	PV T	0.0215	677.88739	382.65698	0.44002
42	6.510	PV T	0.0133	466.15817	420.41422	0.30259
43	6.551	PV S	0.0549	1.28785e4	2926.01440	8.35953
44	6.652	BV T	0.0327	4472.78027	1636.53918	2.90331
45	6.721	PV T	0.0157	660.39813	524.52802	0.42867
46	6.754	PV T	0.0118	378.25354	392.78055	0.24553
47	6.760	PV T	0.0108	386.30103	449.77249	0.25075
48	6.784	PV T	2.85e-3	7.82699	45.70295	0.00508
49	6.826	PBAS	0.0327	2.00523e4	8097.87207	13.01612
50	6.906	BV T	0.0135	629.17187	569.33478	0.40840
51	6.916	PV T	0.0182	926.77106	613.60876	0.60157
52	6.945	PV T	0.0109	319.31351	391.93164	0.20727
53	6.959	PV T	8.80e-3	279.70242	397.99298	0.18156
54	6.978	PV T	0.0231	1059.49207	548.44366	0.68772
55	7.022	PV T	0.0286	305.18588	177.66780	0.19810
56	7.085	PV T	0.0265	1225.82190	551.74371	0.79569
57	7.129	PV T	0.0119	90.28880	126.26422	0.05861
58	7.175	PV T	0.0191	406.97525	257.13571	0.26417
59	7.197	PV T	0.0184	367.34708	246.08809	0.23845
60	7.229	PV T	3.34e-3	13.63029	68.01032	0.00885
61	7.234	PV T	7.73e-3	56.77963	90.34353	0.03686
62	7.248	PV T	7.29e-3	20.43220	46.70951	0.01326
63	7.286	PV T	0.0177	909.39069	636.14386	0.59029
64	7.318	PB T	0.0163	427.60721	320.96536	0.27756
65	7.396	BV T	0.0146	322.45874	269.19769	0.20931
66	7.424	PB T	0.0144	237.32335	201.25768	0.15405
67	7.481	BV T	0.0141	305.61615	263.15656	0.19838
68	7.494	PV T	4.96e-3	88.94018	237.76796	0.05773
69	7.505	PV T	0.0224	625.69580	337.90985	0.40614
70	7.545	PV T	0.0116	81.83270	117.11102	0.05312
71	7.559	PV T	9.85e-3	38.96327	65.89465	0.02529
72	7.628	PV T	0.0376	2502.83813	793.33722	1.62461
73	7.678	PV T	0.0136	217.66496	267.11130	0.14129
74	7.713	PV T	0.0305	1033.17249	400.56250	0.67064
75	7.784	PBAT	0.0135	74.78618	67.45296	0.04854

Totals : 1.54058e5 6.47567e4

Results obtained with enhanced integrator!

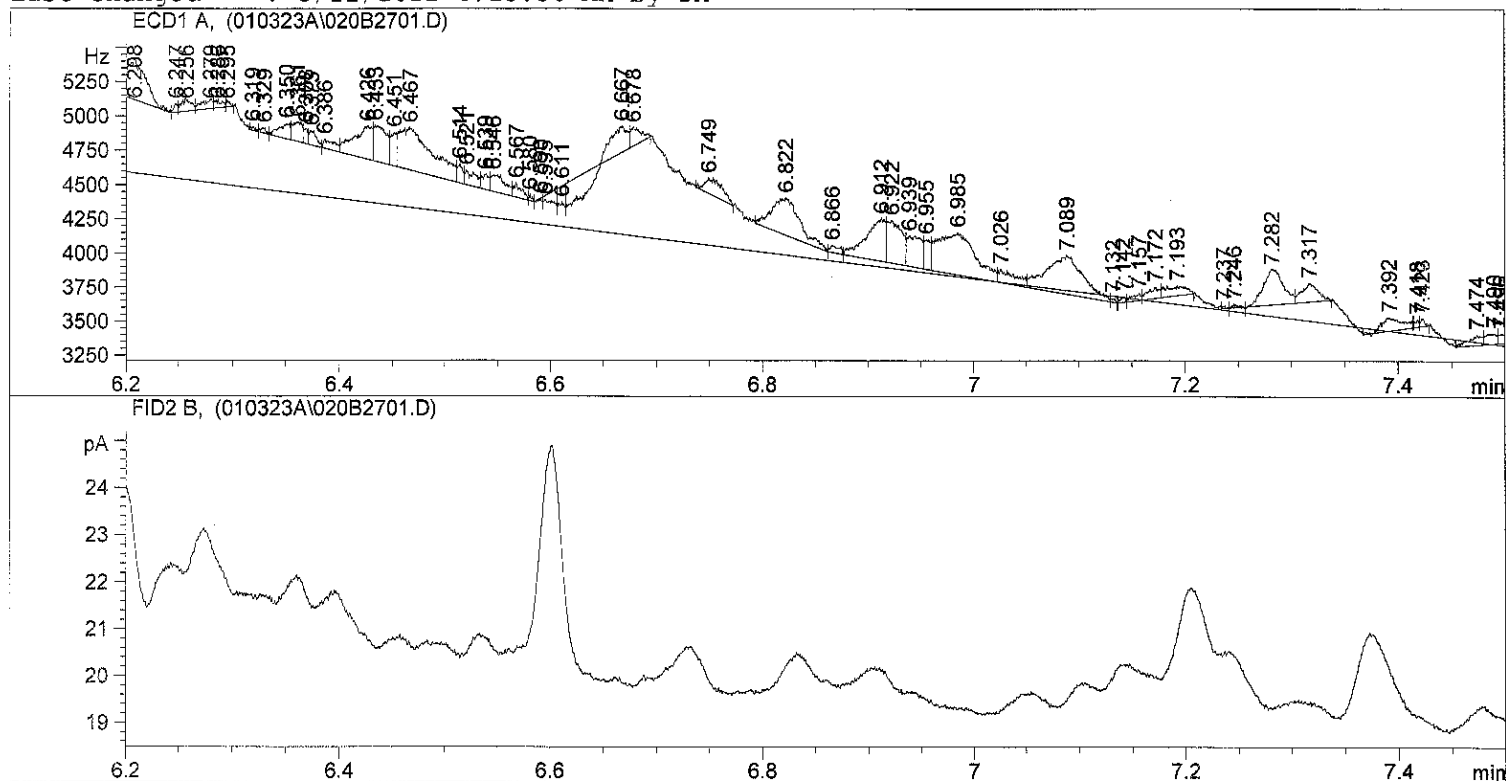
Signal 2: FID2 B,

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*** End of Report ***

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Injection Date : 1/3/2023 8:00:00 PM      Seq. Line : 27
Sample Name    : 22L0417 02                Location  : Vial 20
Acq. Operator  : TW                       Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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
    
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.251	BV	9.26e-3	276.96835	373.18265	0.36277
2	5.255	VV	8.80e-3	251.85010	376.80887	0.32987
3	5.277	VV	0.0139	422.32547	369.32712	0.55316
4	5.295	VV	0.0221	611.53217	345.63043	0.80098
5	5.337	VV	0.0117	211.31038	235.74831	0.27677
6	5.375	VV	0.0265	2176.01953	974.41077	2.85013
7	5.440	VV	0.0279	3501.93042	1532.31299	4.58679
8	5.474	VV S	0.0213	4432.32520	2795.30420	5.80542
9	5.513	VV S	0.1284	8948.80957	1161.95850	11.72106
10	5.551	BV T	0.0000	3.82385	54.36681	0.00501
11	5.596	VV T	0.0166	541.52283	393.93723	0.70928
12	5.633	VV T	0.0108	184.91754	215.76775	0.24220
13	5.638	VV T	4.27e-3	61.37474	195.30759	0.08039
14	5.645	VV T	0.0100	173.84305	211.05853	0.22770
15	5.694	VV T	0.0145	979.65356	860.88092	1.28314
16	5.725	VV T	4.72e-3	9.83143	34.69835	0.01288
17	5.755	VV S	0.0257	5930.70850	3182.90601	7.76798

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.815	VB S	0.5552	3.41035e4	1023.72302	44.66841
19	5.866	BV T	0.0169	1153.86108	824.46350	1.51132
20	5.955	VV T	0.0222	1333.26245	728.16260	1.74629
21	6.008	VB T	0.0302	1980.64136	812.90137	2.59422
22	6.081	BV T	5.36e-3	19.04963	48.75915	0.02495
23	6.101	PB T	0.0164	296.39951	215.96860	0.38822
24	6.159	BV T	0.0137	93.88399	98.40369	0.12297
25	6.176	PV T	7.68e-3	51.49090	84.89086	0.06744
26	6.208	PV T	0.0195	474.53046	299.41766	0.62154
27	6.247	PV T	3.66e-3	15.03994	61.42451	0.01970
28	6.256	PV T	7.91e-3	53.64783	85.66166	0.07027
29	6.279	PV T	9.45e-3	49.21290	66.39777	0.06446
30	6.286	PV T	8.58e-3	27.44676	53.30969	0.03595
31	6.295	PB T	3.67e-3	10.10271	45.82666	0.01323
32	6.319	BV T	4.47e-3	7.44387	27.74405	0.00975
33	6.329	PV T	5.22e-3	11.45460	36.59698	0.01500
34	6.350	PV T	9.18e-3	78.75503	112.39001	0.10315
35	6.361	PV T	8.22e-3	90.50261	142.36595	0.11854
36	6.368	PV T	4.13e-3	27.54474	111.14538	0.03608
37	6.373	PV T	7.60e-3	46.83466	102.75753	0.06134
38	6.386	PV T	0.0133	52.25181	65.31038	0.06844
39	6.426	PV T	0.0144	281.19006	237.84956	0.36830
40	6.433	PV T	0.0143	218.65807	255.06995	0.28640
41	6.451	PV T	5.29e-3	93.44627	243.04762	0.12239
42	6.467	PV T	0.0272	685.59259	305.30145	0.89798
43	6.514	PV T	5.98e-3	48.60486	135.48322	0.06366
44	6.521	PV T	0.0114	70.70596	103.03442	0.09261
45	6.539	PV T	6.22e-3	48.13710	103.65946	0.06305
46	6.546	PV T	0.0166	117.08004	117.20044	0.15335
47	6.567	PV T	6.95e-3	53.78825	98.79957	0.07045
48	6.580	PV T	3.13e-3	7.56333	40.23946	0.00991
49	6.590	PV T	0.0253	4.21219	2.77559	0.00552
50	6.595	PV T	0.0313	56.56899	30.11555	0.07409
51	6.611	PV T	9.16e-3	65.01498	118.24175	0.08516
52	6.667	PV T	0.0000	52.58784	190.05453	0.06888
53	6.678	PB T	0.0112	90.19333	134.28049	0.11813
54	6.749	BB T	0.0153	139.86816	110.64015	0.18320
55	6.822	BV T	0.0230	500.89633	270.13232	0.65607
56	6.866	PV T	7.78e-3	32.31152	52.53884	0.04232
57	6.912	PV T	0.0153	389.73953	309.92322	0.51048
58	6.922	PV T	0.0162	303.01196	312.23462	0.39688
59	6.939	PV T	0.0119	213.89957	220.67189	0.28016
60	6.955	PV T	6.99e-3	91.19285	217.52312	0.11944
61	6.985	PV T	0.0289	755.78033	309.45035	0.98991
62	7.026	PV T	0.0205	117.66449	95.63334	0.15412
63	7.089	PV T	0.0286	673.09210	278.84024	0.88161
64	7.132	PV T	4.36e-3	7.71384	28.45701	0.01010
65	7.142	PV T	4.92e-3	13.23450	41.52613	0.01733
66	7.157	PV T	7.69e-3	28.35364	46.67532	0.03714
67	7.172	PV T	9.63e-3	60.93684	78.70773	0.07981
68	7.193	PB T	0.0181	96.63879	69.28716	0.12658
69	7.237	BV T	3.61e-3	3.69440	17.06633	0.00484
70	7.246	PV T	3.96e-3	6.87734	22.55988	0.00901
71	7.282	PV T	0.0169	341.38589	253.84891	0.44714
72	7.317	PB T	0.0134	143.48122	133.33182	0.18793
73	7.392	BV T	0.0171	128.37645	94.37190	0.16815
74	7.418	PV T	4.74e-3	14.07189	49.51156	0.01843
75	7.423	PB T	4.49e-3	14.91828	55.36853	0.01954
76	7.474	BV T	0.0109	64.51087	73.28713	0.08450
77	7.490	PV T	9.73e-3	53.77389	77.13468	0.07043
78	7.496	PV T	6.53e-3	27.63394	70.58154	0.03619
79	7.506	PB T	9.45e-3	50.11092	69.18683	0.06563
80	7.628	BV T	0.0380	1172.79651	365.85379	1.53612
81	7.676	PV T	0.0121	110.39200	120.39836	0.14459
82	7.692	PV T	0.0102	80.03298	101.10910	0.10483

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.709	PB T	0.0121	74.28083	80.84318	0.09729
84	7.791	BBA	0.0109	48.50644	57.03778	0.06353

Totals : 7.63481e4 2.45601e4

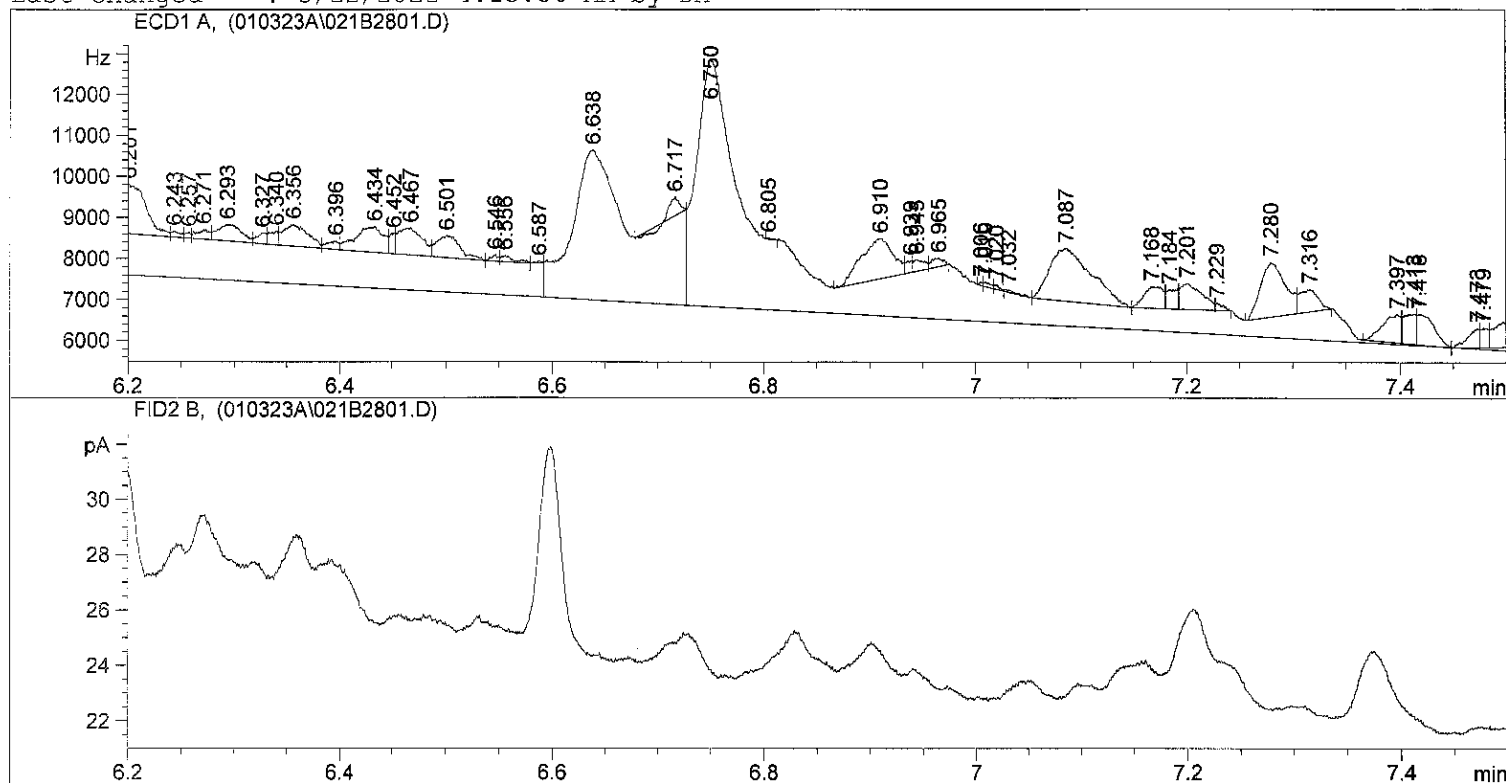
Results obtained with enhanced integrator!

Signal 2: FID2 B,

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*** End of Report ***

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Injection Date : 1/3/2023 8:11:13 PM      Seq. Line : 28
Sample Name    : 22L0417 03                Location  : Vial 21
Acq. Operator  : TW                        Inj       : 1
                                           Inj Volume: 1 µl
Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.221	PV S	0.0414	6753.12451	2061.12549	3.25420
2	5.251	PP T	9.51e-3	134.00667	234.82887	0.06458
3	5.275	PV T	6.15e-3	71.69077	150.79906	0.03455
4	5.281	PV T	6.15e-3	48.98956	132.67215	0.02361
5	5.290	PB T	0.0126	74.24814	98.01797	0.03578
6	5.339	PV T	0.0000	20.40043	32.79595	0.00983
7	5.348	PV T	6.93e-3	55.45298	133.36122	0.02672
8	5.375	PV T	0.0126	1126.69019	1091.17944	0.54293
9	5.436	PV T	0.0149	1575.10181	1283.44092	0.75901
10	5.475	PV S	0.0406	1.38276e4	4178.40527	6.66326
11	5.509	BV T	0.0118	334.14337	375.54187	0.16102
12	5.561	PV T	0.0177	1467.99438	1035.44141	0.70740
13	5.591	PV T	0.0155	746.57825	585.82391	0.35976
14	5.623	PV T	0.0159	1035.29614	800.39246	0.49889
15	5.674	PV S	0.0333	1.34403e4	5277.50049	6.47661
16	5.753	PV S	0.1528	5.84588e4	4546.84424	28.17016
17	5.815	BV T	0.0182	1296.67419	877.35754	0.62484

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.866	PV T	0.0193	1850.69495	1222.57800	0.89181
19	5.900	PV T	0.0212	2534.20264	1452.76538	1.22118
20	5.922	PV T	6.15e-3	460.37186	1003.41919	0.22184
21	5.945	PV T	0.0219	3470.07104	1919.73010	1.67216
22	5.980	PV T	0.0204	3034.87402	1929.20911	1.46245
23	6.002	PV T	0.0179	2728.91211	1815.07043	1.31501
24	6.036	PV T	0.0181	1401.58716	936.59393	0.67540
25	6.057	PV T	0.0105	423.12683	670.45563	0.20390
26	6.089	PV T	0.0227	1394.74194	750.02490	0.67210
27	6.125	PV T	0.0102	247.44792	305.80170	0.11924
28	6.140	PV T	6.36e-3	120.88259	263.22711	0.05825
29	6.163	PV T	0.0134	550.54663	501.44290	0.26530
30	6.168	PV T	6.61e-3	187.48468	472.84970	0.09035
31	6.201	PV T	0.0258	2547.73364	1198.73706	1.22770
32	6.243	PV T	9.33e-3	79.63573	142.30440	0.03837
33	6.257	PV T	5.84e-3	49.24739	140.61934	0.02373
34	6.271	PV T	9.54e-3	186.76111	238.48204	0.09000
35	6.293	PV T	0.0196	641.87976	398.37442	0.30931
36	6.327	PV T	7.76e-3	157.49867	263.89890	0.07590
37	6.340	PV T	7.11e-3	187.83434	336.55975	0.09051
38	6.356	PV T	0.0192	854.92432	531.90002	0.41197
39	6.396	PV T	9.96e-3	154.64316	201.32687	0.07452
40	6.434	PV T	0.0222	1153.82422	623.06763	0.55601
41	6.452	PV T	4.78e-3	177.04066	494.41858	0.08531
42	6.467	PV T	0.0191	977.30365	657.80377	0.47094
43	6.501	PV T	0.0200	826.73993	531.02893	0.39839
44	6.546	PV T	5.84e-3	65.05830	144.91386	0.03135
45	6.556	PV T	0.0134	119.43837	148.37144	0.05756
46	6.587	PV T	6.30e-3	14.33051	37.88783	0.00691
47	6.638	PV S	0.0558	1.68710e4	3643.95703	8.12980
48	6.717	BV T	6.32e-3	188.28966	446.76266	0.09073
49	6.750	PBAS	0.0859	4.38749e4	6031.61279	21.14248
50	6.805	BB T	5.58e-3	12.44675	37.20829	0.00600
51	6.910	BV T	0.0259	2051.43750	969.72736	0.98855
52	6.939	PV T	7.07e-3	120.38261	283.67273	0.05801
53	6.945	PV T	9.30e-3	198.75201	279.24942	0.09577
54	6.965	PB T	0.0109	163.22481	204.77161	0.07865
55	7.006	BV T	3.61e-3	18.90027	78.38609	0.00911
56	7.010	PV T	8.17e-3	54.04704	110.20564	0.02604
57	7.020	PV T	5.16e-3	33.85357	109.37477	0.01631
58	7.032	PV T	0.0103	43.61028	70.75389	0.02101
59	7.087	PV T	0.0337	3578.26660	1283.33228	1.72430
60	7.168	PV T	0.0149	649.80920	523.19751	0.31313
61	7.184	PV T	9.06e-3	325.49188	459.85535	0.15685
62	7.201	PV T	0.0178	887.98828	625.05603	0.42790
63	7.229	PB T	8.22e-3	84.49582	171.27835	0.04072
64	7.280	BV T	0.0195	2131.72339	1319.33191	1.02724
65	7.316	PB T	0.0152	655.44061	539.91956	0.31584
66	7.397	BV T	0.0143	807.00928	688.56366	0.38888
67	7.413	PV T	0.0101	590.80475	737.26221	0.28470
68	7.418	PV T	0.0188	837.72272	742.73248	0.40368
69	7.473	PV T	9.63e-3	359.80823	464.82941	0.17338
70	7.479	PV T	8.43e-3	234.29445	463.36145	0.11290
71	7.507	PB T	0.0232	1168.05347	636.37103	0.56286
72	7.567	BV T	4.05e-4	7.82212e-1	32.18385	0.00038
73	7.617	PV T	0.0157	1786.56482	1382.00671	0.86091
74	7.624	PV T	0.0187	2184.80957	1407.14392	1.05282
75	7.698	PV T	1.64e-3	9.65441	108.75798	0.00465
76	7.713	PB T	0.0111	203.16774	220.59456	0.09790
77	7.785	BBAT	0.0203	327.55783	209.16875	0.15784

Totals : 2.07520e5 6.65090e4

Results obtained with enhanced integrator!

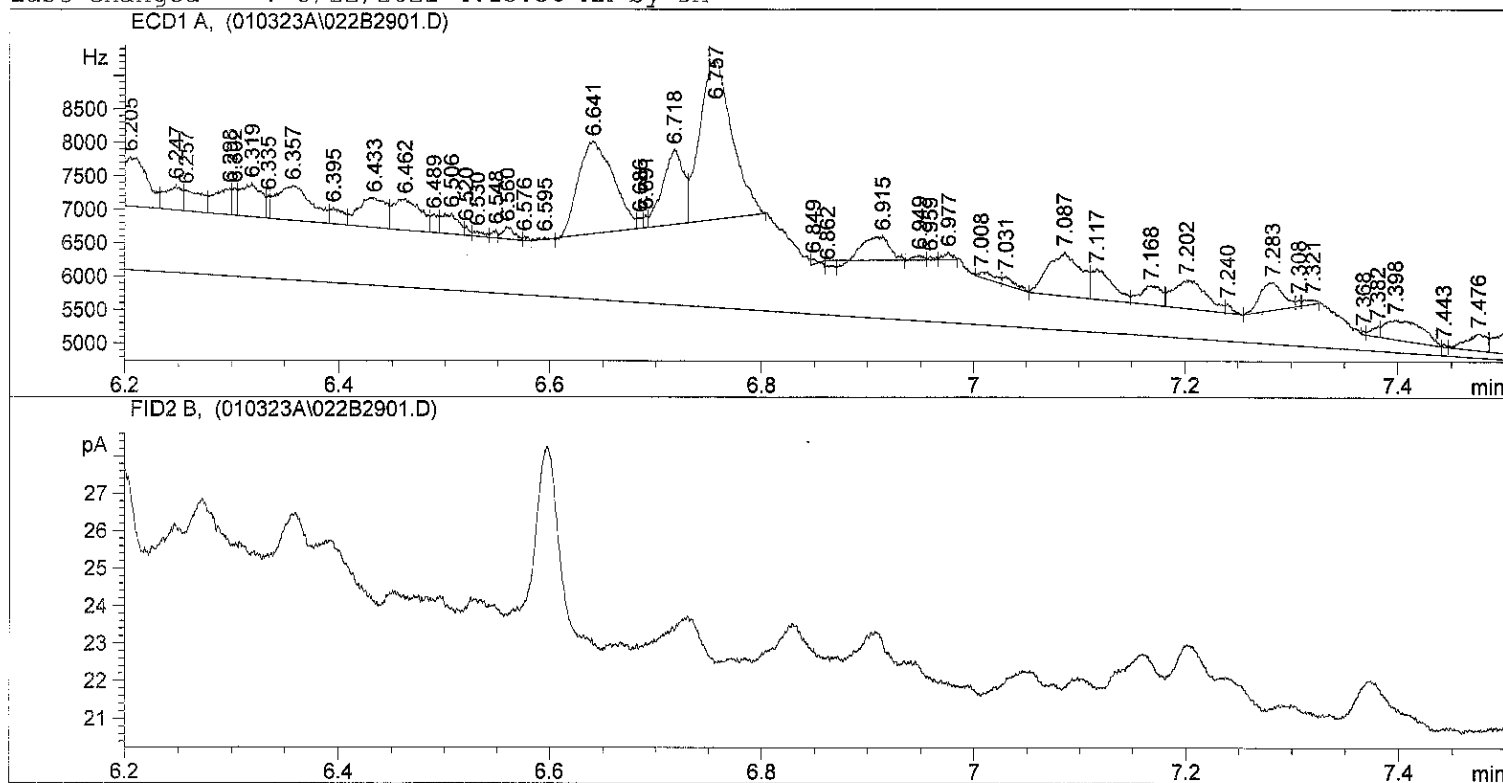
Signal 2: FID2 B,

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*** End of Report ***

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Injection Date : 1/3/2023 8:22:26 PM      Seq. Line : 29
Sample Name    : 22L0417 04                Location  : Vial 22
Acq. Operator  : TW                        Inj       : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.225	BV	0.0170	1548.37524	1102.92090	0.88736
2	5.277	VP	1.98e-3	7.58208	64.27256	0.00435
3	5.283	VV	4.17e-3	23.71606	93.12703	0.01359
4	5.293	VV	0.0118	157.07561	166.15063	0.09002
5	5.313	VP	6.42e-3	49.45689	110.59202	0.02834
6	5.332	VV	0.0118	114.58120	116.81197	0.06567
7	5.375	VV	0.0166	1399.16187	1045.16211	0.80184
8	5.402	VV	8.15e-3	342.77765	559.52692	0.19644
9	5.435	VV	0.0220	4728.92139	2597.25854	2.71009
10	5.474	VV S	0.0220	6334.78027	3856.88965	3.63039
11	5.504	VV S	0.0923	8295.05957	1497.96057	4.75380
12	5.563	BV T	0.0165	879.56635	635.85114	0.50407
13	5.599	VV T	0.0160	599.07550	471.49341	0.34332
14	5.622	VV T	0.0149	1607.88062	1308.00964	0.92146
15	5.644	VV T	5.54e-3	69.95145	210.49342	0.04009
16	5.677	VV S	0.0347	9944.77344	3549.82227	5.69923
17	5.753	VBAS	0.2449	9.49804e4	4584.43652	54.43212

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.814	BV T	0.0127	489.38354	496.87082	0.28046
19	5.823	VV T	0.0146	415.75562	473.78802	0.23826
20	5.867	VV T	0.0205	1778.51575	1065.49194	1.01925
21	5.909	VV T	0.0218	1719.05505	1002.07861	0.98517
22	5.920	VV T	7.18e-3	408.49826	948.22742	0.23411
23	5.945	VV T	0.0216	2275.93213	1275.24084	1.30431
24	5.981	VV T	0.0210	3302.46094	1986.79102	1.89260
25	6.004	VV T	0.0278	3996.28027	1728.47668	2.29022
26	6.062	VV T	8.45e-3	229.43349	452.40335	0.13149
27	6.070	VV T	5.39e-3	142.91156	441.84402	0.08190
28	6.089	VV T	0.0259	1405.35986	642.96417	0.80539
29	6.125	PV T	0.0144	295.47562	343.07266	0.16933
30	6.152	PV T	9.99e-3	257.13400	319.34515	0.14736
31	6.158	PV T	8.53e-3	158.32541	309.17233	0.09073
32	6.173	PV T	8.04e-3	210.03682	329.28476	0.12037
33	6.180	PV T	5.39e-3	143.61301	382.54715	0.08230
34	6.185	PV T	6.42e-3	159.31383	413.66422	0.09130
35	6.205	PV T	0.0220	1343.06946	738.26556	0.76970
36	6.247	PV T	0.0129	400.45053	374.99170	0.22949
37	6.257	PV T	0.0200	378.93250	316.22394	0.21716
38	6.298	PV T	0.0145	430.79709	394.82831	0.24688
39	6.302	PV T	4.29e-3	128.29747	405.79956	0.07353
40	6.319	PV T	0.0162	670.86108	503.06708	0.38446
41	6.335	PV T	3.78e-3	77.03784	339.93115	0.04415
42	6.357	PV T	0.0266	1158.20459	519.47662	0.66375
43	6.395	PV T	0.0103	201.18506	238.28288	0.11530
44	6.433	PV T	0.0220	806.67902	443.42987	0.46230
45	6.462	PV T	0.0225	834.28235	465.41455	0.47812
46	6.489	PV T	6.13e-3	130.51840	275.19080	0.07480
47	6.506	PV T	0.0135	333.83234	312.36679	0.19132
48	6.520	PV T	4.81e-3	38.80970	134.53793	0.02224
49	6.530	PV T	8.33e-3	50.52190	74.34158	0.02895
50	6.548	PV T	4.41e-3	40.53466	124.04752	0.02323
51	6.560	PV T	9.92e-3	140.50212	183.72331	0.08052
52	6.576	PV T	5.15e-3	18.36348	59.44301	0.01052
53	6.595	PV T	4.26e-3	10.51396	33.51906	0.00603
54	6.641	PV T	0.0282	3180.32544	1376.64966	1.82261
55	6.686	PV T	5.15e-3	57.71254	155.77007	0.03307
56	6.691	PV T	3.73e-3	50.45836	188.11658	0.02892
57	6.718	PV T	0.0178	1566.94067	1113.80310	0.89799
58	6.757	PB T	0.0266	5035.90234	2387.85620	2.88601
59	6.849	BV T	2.24e-3	11.20418	83.48956	0.00642
60	6.862	PV T	0.0121	57.07494	78.37519	0.03271
61	6.915	PV T	0.0193	579.06512	361.96201	0.33186
62	6.949	PV T	7.40e-3	43.17791	72.00554	0.02474
63	6.959	PV T	4.89e-3	19.14957	52.01870	0.01097
64	6.977	PB T	7.41e-3	65.20715	115.13509	0.03737
65	7.008	BV T	0.0160	107.90173	80.49476	0.06184
66	7.031	PV T	9.83e-3	103.18687	130.45845	0.05914
67	7.087	PV T	0.0260	1423.43115	653.78510	0.81575
68	7.117	PV T	0.0167	625.73035	453.56082	0.35860
69	7.168	PV T	0.0178	401.53131	285.87277	0.23011
70	7.202	PV T	0.0258	920.86560	422.33188	0.52774
71	7.240	PV T	7.13e-3	56.50738	132.08937	0.03238
72	7.283	PV T	0.0196	623.47461	413.48264	0.35731
73	7.308	PV T	4.57e-3	26.90845	98.03645	0.01542
74	7.321	PB T	0.0104	60.74776	71.01166	0.03481
75	7.368	BV T	3.47e-3	10.19493	48.93980	0.00584
76	7.382	PV T	6.65e-3	80.35062	154.96857	0.04605
77	7.398	PV T	0.0308	749.18311	291.59933	0.42935
78	7.443	PV T	4.39e-3	9.80057	37.24487	0.00562
79	7.476	PV T	0.0166	323.32550	251.22623	0.18529
80	7.506	PV T	0.0242	694.23737	343.11133	0.39786
81	7.548	PV T	0.0106	95.22487	113.91460	0.05457
82	7.566	PV T	3.47e-3	6.10221	29.26872	0.00350

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.618	PV T	0.0325	1633.25366	609.43073	0.93600
84	7.673	PV T	4.84e-3	14.67395	40.41111	0.00841
85	7.681	PV T	0.0000	9.31956	20.44126	0.00534
86	7.705	PV T	4.90e-3	23.06359	62.56010	0.01322
87	7.713	PB T	5.16e-3	15.85750	51.21054	0.00909
88	7.740	BV T	1.49e-3	3.45706	38.77583	0.00198
89	7.781	PV T	0.0196	117.98362	79.21777	0.06761
90	7.793	PBAT	5.29e-3	26.74786	84.22842	0.01533

Totals : 1.74493e5 5.15018e4

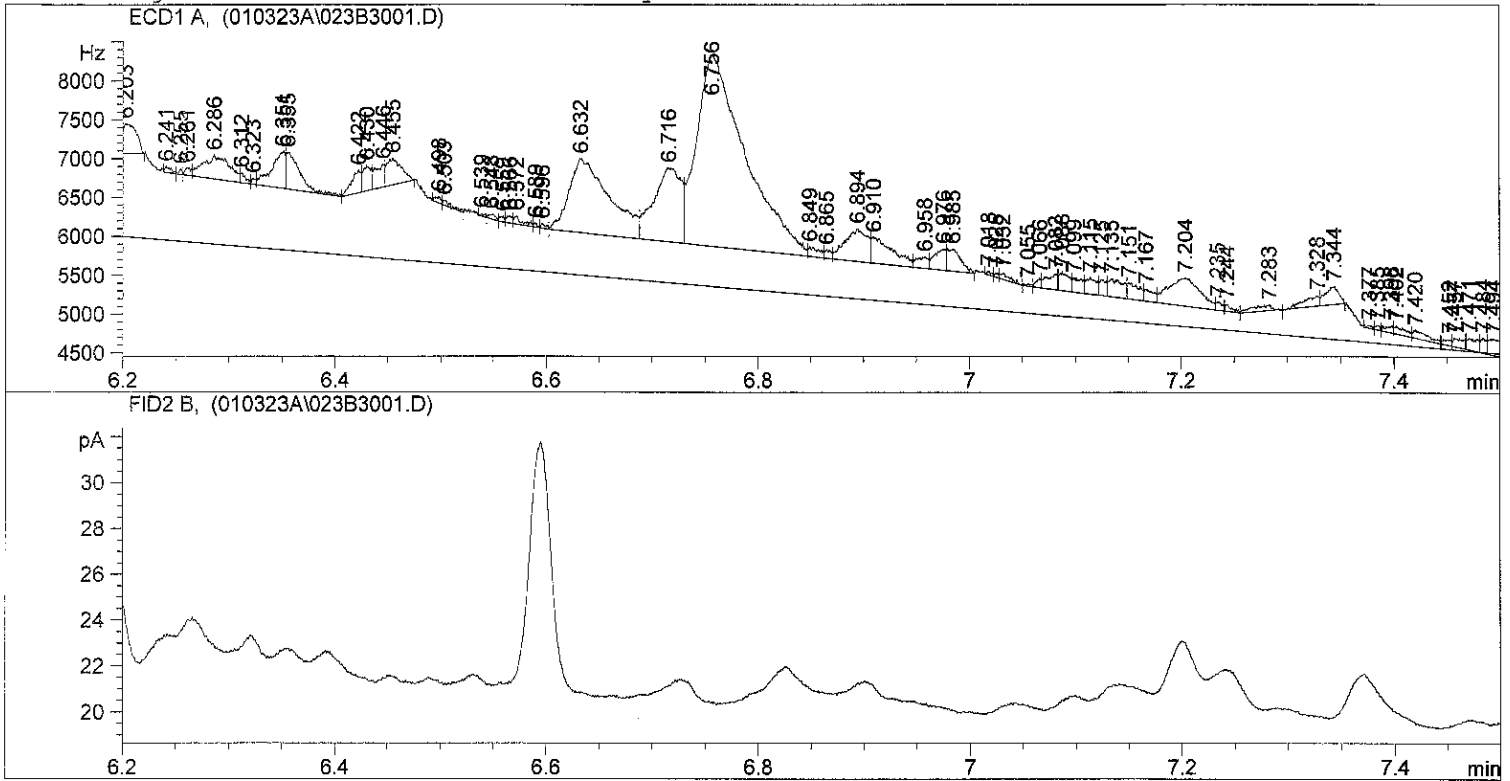
Results obtained with enhanced integrator!

Signal 2: FID2 B,

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*** End of Report ***

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Injection Date : 1/3/2023 8:33:38 PM      Seq. Line : 30
Sample Name    : 22L0417 06                Location  : Vial 23
Acq. Operator  : TW                       Inj      : 1
                                           Inj Volume: 1 µl
Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.228	BV S	0.0895	1.31411e4	1720.66492	10.08109
2	5.271	BV T	2.45e-3	4.80368	32.64102	0.00369
3	5.295	PV T	6.60e-3	62.32705	121.22787	0.04781
4	5.301	PP T	0.0000	141.59605	38.97932	0.10862
5	5.336	PV T	0.0369	346.38718	110.72253	0.26573
6	5.376	PV T	0.0000	255.27429	72.82481	0.19583
7	5.401	PV T	0.0218	56.92756	31.28438	0.04367
8	5.405	VV T	0.0104	24.96948	40.20253	0.01916
9	5.411	VV T	7.85e-3	33.63974	71.45627	0.02581
10	5.440	VV T	0.0118	782.01910	814.33435	0.59992
11	5.474	VV T	0.0148	824.00238	741.30444	0.63213
12	5.502	VV T	2.68e-3	11.12404	69.13847	0.00853
13	5.507	VB T	4.94e-3	21.49407	72.44798	0.01649
14	5.563	BV T	0.0169	922.89178	669.08289	0.70799
15	5.579	VV T	5.00e-3	203.85088	566.91882	0.15638
16	5.584	VV T	0.0143	419.72113	487.76248	0.32199
17	5.620	VV T	0.0192	1009.94482	646.26569	0.77477

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.678	VV S	0.0329	8689.47949	3157.52539	6.66607
19	5.751	VV S	0.0449	6363.57227	2360.20410	4.88176
20	5.947	VV S	0.1684	2.41969e4	2394.60864	18.56249
21	6.037	VBAS	0.5660	5.08924e4	1498.69507	39.04173
22	6.077	BV T	0.0108	62.53651	96.32092	0.04797
23	6.090	PV T	0.0173	122.07275	117.46035	0.09365
24	6.110	PV T	9.65e-3	85.99415	110.85292	0.06597
25	6.138	PV T	3.42e-3	9.32969	44.98441	0.00716
26	6.162	PV T	8.06e-3	62.76618	98.18437	0.04815
27	6.173	PV T	3.78e-3	12.10318	47.40190	0.00928
28	6.203	PB T	0.0181	578.20258	380.35498	0.44356
29	6.241	BV T	6.98e-3	29.73041	70.99986	0.02281
30	6.255	PV T	3.31e-3	13.08091	65.88982	0.01003
31	6.261	PV T	6.32e-3	37.17516	98.06541	0.02852
32	6.286	PV T	0.0210	519.56714	300.65625	0.39858
33	6.312	PV T	5.82e-3	43.45257	124.35979	0.03333
34	6.323	PV T	4.33e-3	20.13535	77.45498	0.01545
35	6.351	PV T	0.0105	397.58716	469.69113	0.30501
36	6.355	PV T	0.0155	437.32352	469.96555	0.33549
37	6.422	PV T	7.67e-3	173.22112	285.91440	0.13289
38	6.430	PV T	7.05e-3	183.98737	322.70477	0.14114
39	6.446	PV T	7.99e-3	178.94965	290.52271	0.13728
40	6.455	PB T	0.0119	328.00256	338.24722	0.25162
41	6.498	BV T	4.77e-3	28.18844	78.77415	0.02162
42	6.503	PB T	8.76e-3	32.97894	62.71900	0.02530
43	6.539	BV T	3.53e-3	9.62319	35.87823	0.00738
44	6.548	PV T	6.09e-3	30.05973	61.64834	0.02306
45	6.559	PV T	4.05e-3	19.83305	67.12468	0.01521
46	6.566	PV T	5.95e-3	33.38968	93.52801	0.02561
47	6.572	PV T	8.78e-3	55.04694	104.53910	0.04223
48	6.589	PV T	3.62e-3	11.22062	51.70392	0.00861
49	6.596	PV T	4.63e-3	17.85054	54.34436	0.01369
50	6.632	PV T	0.0328	2557.86084	951.04419	1.96224
51	6.716	PV T	0.0220	1689.46814	948.89996	1.29606
52	6.756	PV T	0.0382	7816.61035	2454.32397	5.99645
53	6.849	PV T	0.0120	87.28455	120.79394	0.06696
54	6.865	PV T	7.31e-3	45.70311	104.15497	0.03506
55	6.894	PV T	0.0177	613.45288	418.83191	0.47061
56	6.910	PV T	0.0237	464.56860	326.27594	0.35639
57	6.958	PV T	9.68e-3	112.63798	144.65549	0.08641
58	6.976	PV T	9.20e-3	203.53151	269.96774	0.15614
59	6.985	PB T	0.0112	253.26912	282.95837	0.19429
60	7.018	BV T	4.96e-3	12.96165	43.59502	0.00994
61	7.025	PV T	3.78e-3	11.70711	51.58962	0.00898
62	7.032	PV T	7.99e-3	50.55112	79.79273	0.03878
63	7.055	PV T	5.04e-3	12.90145	33.89185	0.00990
64	7.066	PV T	4.56e-3	38.65051	119.94169	0.02965
65	7.082	PV T	9.65e-3	143.58492	193.73230	0.11015
66	7.088	PV T	0.0112	152.71165	226.41595	0.11715
67	7.099	PV T	0.0112	117.90981	175.12355	0.09045
68	7.115	PV T	8.58e-3	147.47139	210.28658	0.11313
69	7.125	PV T	6.93e-3	84.57169	203.36855	0.06488
70	7.135	PV T	0.0128	226.43741	224.74039	0.17371
71	7.151	PV T	0.0134	165.34003	205.85559	0.12684
72	7.167	PV T	0.0101	93.66662	154.34865	0.07186
73	7.204	PV T	0.0249	756.06635	363.21664	0.58001
74	7.235	PV T	6.90e-3	44.86735	108.38950	0.03442
75	7.244	PV T	7.46e-3	39.38047	87.97075	0.03021
76	7.283	PV T	0.0168	89.64114	67.03756	0.06877
77	7.328	PV T	0.0122	131.26025	131.93701	0.10070
78	7.344	PB T	0.0111	204.58775	228.03561	0.15695
79	7.377	BV T	6.52e-3	13.97774	35.74455	0.01072
80	7.385	PV T	5.15e-3	16.71017	54.04538	0.01282
81	7.398	PV T	7.23e-3	43.06306	99.28817	0.03304
82	7.402	PV T	9.29e-3	76.66996	102.89889	0.05882

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.420	PV T	0.0184	105.55700	95.40329	0.08098
84	7.452	PV T	7.06e-3	39.53550	78.71400	0.03033
85	7.457	PV T	0.0122	77.71458	106.38056	0.05962
86	7.471	PV T	8.84e-3	110.09934	152.22357	0.08446
87	7.484	PV T	6.26e-3	71.39066	190.06654	0.05477
88	7.494	PV T	0.0595	739.59113	207.25461	0.56737
89	7.568	PV T	1.71e-3	2.45251	23.93143	0.00188
90	7.606	PV T	0.0121	142.71013	155.25883	0.10948
91	7.614	PB T	0.0134	154.22711	147.25320	0.11831
92	7.650	BV T	0.0176	60.94044	57.64110	0.04675
93	7.670	PV T	0.0214	86.48642	67.36021	0.06635
94	7.696	PV T	0.0206	64.27480	52.11243	0.04931
95	7.726	PV T	7.57e-3	14.95193	26.54407	0.01147
96	7.739	PV T	2.99e-3	9.78869	44.08033	0.00751
97	7.746	PV T	4.01e-3	20.23890	69.26972	0.01553
98	7.760	PBAT	0.0232	196.99446	104.64285	0.15112

Totals : 1.30354e5 3.09399e4

Results obtained with enhanced integrator!

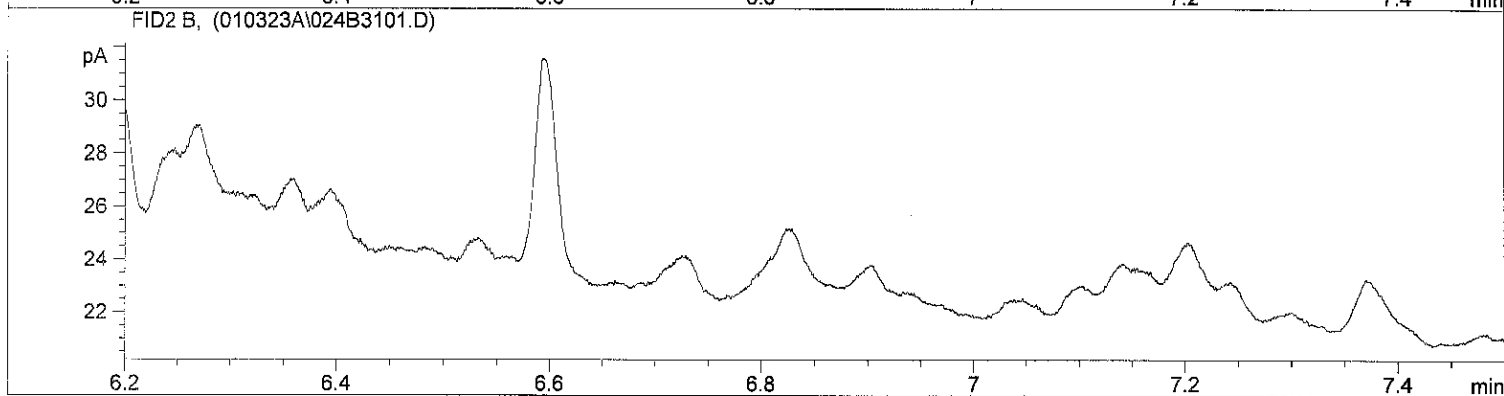
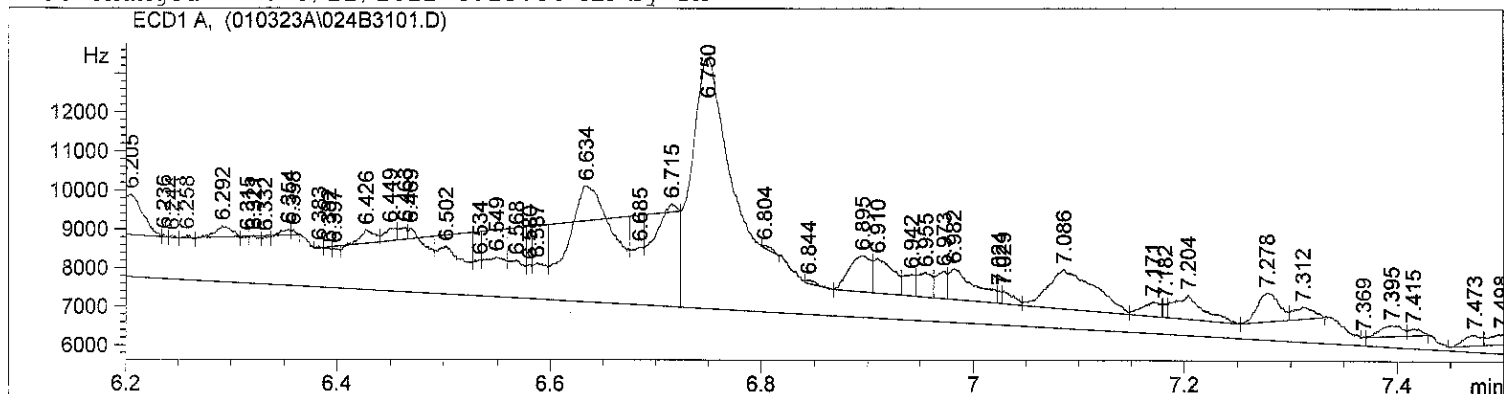
Signal 2: FID2 B,

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*** End of Report ***

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Injection Date : 1/3/2023 8:44:50 PM      Seq. Line : 31
Sample Name    : 22L0417 07                Location  : Vial 24
Acq. Operator  : TW                        Inj       : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.218	PV S	0.0170	3665.68091	2847.42920	1.67361
2	5.250	PV T	9.44e-3	119.87270	154.67496	0.05473
3	5.272	PV T	3.99e-3	44.02295	151.50774	0.02010
4	5.277	PB T	0.0111	121.14290	182.60921	0.05531
5	5.335	PV T	8.10e-3	110.34454	197.95369	0.05038
6	5.376	PV S	0.0377	8533.12500	2727.34839	3.89589
7	5.435	BV T	0.0171	1806.72656	1514.99951	0.82488
8	5.474	PV S	0.0439	1.57952e4	4435.59863	7.21149
9	5.560	BV T	0.0188	2427.70801	1588.40100	1.10840
10	5.590	PV T	0.0149	998.82050	814.92975	0.45602
11	5.619	PV T	0.0174	1454.33704	1009.79871	0.66399
12	5.671	PV S	0.0306	1.49273e4	6039.94629	6.81522
13	5.752	PV S	0.2369	7.97948e4	3949.65430	36.43119
14	5.816	BV T	0.0194	1699.76270	1079.58813	0.77605
15	5.865	PV T	0.0174	2565.81055	1783.77429	1.17145
16	5.901	PV T	0.0238	3654.62549	1889.30347	1.66856
17	5.944	PV T	0.0228	4244.73486	2336.25098	1.93798

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.975	PV T	0.0172	2491.08203	1842.74268	1.13733
19	5.991	PV T	7.87e-3	736.67303	1560.31067	0.33634
20	6.003	PV T	0.0193	2378.97681	1681.75244	1.08615
21	6.035	PV T	7.57e-3	487.88632	816.99579	0.22275
22	6.039	PV T	0.0215	1017.37488	786.88440	0.46449
23	6.088	PV T	0.0197	1012.20361	618.00977	0.46213
24	6.114	PV T	9.56e-3	164.52478	286.81387	0.07512
25	6.125	PV T	9.01e-3	114.81482	212.30608	0.05242
26	6.136	PV T	3.33e-3	38.45173	192.27652	0.01756
27	6.156	PV T	0.0190	814.93811	517.57587	0.37207
28	6.182	PV T	5.87e-3	238.43434	527.65204	0.10886
29	6.205	PV T	0.0208	1758.43640	1035.57410	0.80283
30	6.236	PV T	2.47e-3	12.73187	71.84686	0.00581
31	6.244	PV T	3.45e-3	12.02890	52.90625	0.00549
32	6.258	PV T	2.62e-3	14.07755	81.38011	0.00643
33	6.292	PV T	0.0120	272.05606	278.45663	0.12421
34	6.315	PV T	0.0000	11.98041	10.16182	0.00547
35	6.321	PV T	0.0000	20.39233	18.69844	0.00931
36	6.332	PV T	0.0169	24.54674	17.57943	0.01121
37	6.354	PV T	6.62e-3	75.47066	146.35532	0.03446
38	6.358	PB T	4.62e-3	31.51005	113.74815	0.01439
39	6.383	BV T	1.53e-3	5.44245	56.02317	0.00248
40	6.392	PV T	0.0119	18.15488	18.80480	0.00829
41	6.397	PV T	0.0122	38.04337	52.16521	0.01737
42	6.426	PV T	0.0109	284.16666	328.75049	0.12974
43	6.449	PV T	9.54e-3	250.75299	327.31570	0.11448
44	6.463	PV T	7.52e-3	163.46344	301.85147	0.07463
45	6.469	PV T	0.0000	105.61313	261.01901	0.04822
46	6.502	PV T	0.0460	1141.35278	296.15063	0.52110
47	6.534	PV T	6.74e-3	387.69855	736.83051	0.17701
48	6.549	PV T	0.0191	1085.20276	685.20050	0.49546
49	6.568	PV T	0.0139	916.21411	829.82703	0.41831
50	6.580	PV T	4.66e-3	324.48108	979.95490	0.14815
51	6.587	PV T	0.0121	939.12219	956.43146	0.42877
52	6.634	PV T	0.0000	850.36658	889.14935	0.38824
53	6.685	PV T	0.0104	698.45288	815.78046	0.31889
54	6.715	PV T	0.0000	558.05884	212.65776	0.25479
55	6.750	PBAS	0.0765	4.05422e4	6433.04053	18.51001
56	6.804	BB T	9.75e-3	55.88325	72.87620	0.02551
57	6.844	BV T	0.0102	59.21864	96.59047	0.02704
58	6.895	PV T	0.0181	1321.14563	931.85724	0.60318
59	6.910	PV T	0.0158	1174.52661	898.58600	0.53624
60	6.942	PV T	9.96e-3	455.67557	567.90686	0.20804
61	6.955	PV T	0.0110	571.46869	638.48572	0.26091
62	6.973	PV T	9.41e-3	506.66089	702.97510	0.23132
63	6.982	PV T	0.0220	1402.87024	792.98596	0.64050
64	7.024	PV T	4.13e-3	80.97652	326.41238	0.03697
65	7.029	PV T	0.0123	241.83562	328.87341	0.11041
66	7.086	PV T	0.0373	3163.87427	1011.26990	1.44450
67	7.171	PV T	0.0147	448.74411	370.53513	0.20488
68	7.182	PV T	4.82e-3	101.90513	352.57520	0.04653
69	7.204	PV T	0.0231	1166.88037	621.90173	0.53275
70	7.278	PV T	0.0169	1060.90186	748.05432	0.48437
71	7.312	PB T	0.0164	418.97574	309.17111	0.19129
72	7.369	BV T	2.62e-3	3.41909	21.78886	0.00156
73	7.395	PV T	0.0174	401.25153	278.57220	0.18320
74	7.415	PB T	0.0108	144.89925	176.82019	0.06616
75	7.473	BV T	0.0150	311.60693	274.87216	0.14227
76	7.498	PB T	0.0186	381.74948	258.84985	0.17429
77	7.532	BB T	2.11e-3	4.28852	33.79504	0.00196
78	7.557	BV T	7.21e-3	42.27061	97.67153	0.01930
79	7.620	PV T	0.0367	2928.68164	967.11090	1.33712
80	7.684	PV T	0.0128	137.85295	132.18250	0.06294
81	7.697	PV T	3.25e-3	22.00726	112.94218	0.01005
82	7.711	PB T	0.0127	187.26506	186.24358	0.08550

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.771	BV T	0.0108	105.75365	121.00205	0.04828
84	7.777	PBAT	0.0110	124.72569	145.86766	0.05694

Totals : 2.19029e5 6.93335e4

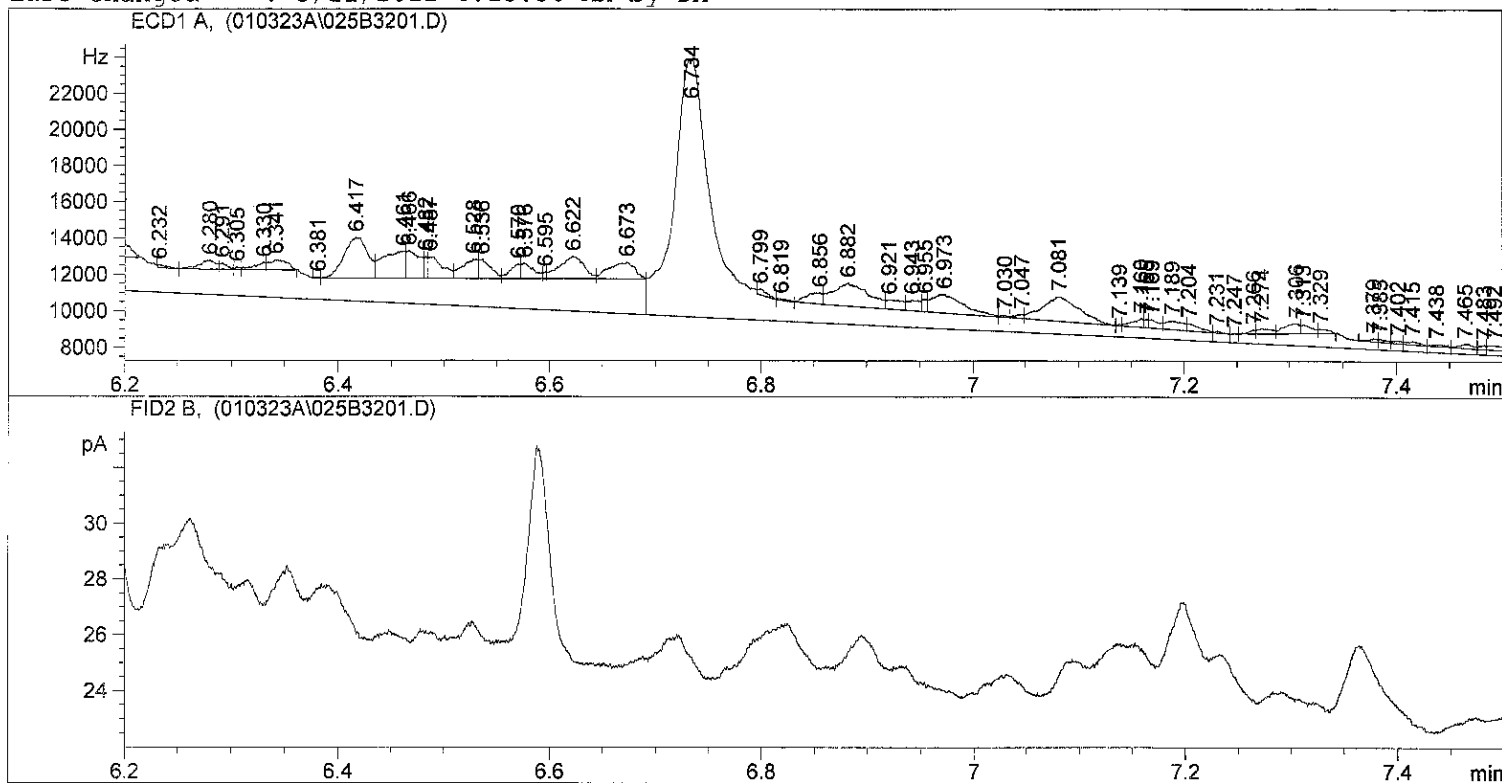
Results obtained with enhanced integrator!

Signal 2: FID2 B,

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*** End of Report ***

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Injection Date : 1/3/2023 8:56:04 PM      Seq. Line : 32
Sample Name    : 22L0459 02                Location  : Vial 25
Acq. Operator  : TW                       Inj       : 1
                                           Inj Volume: 1 µl
Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.214	BP S	0.0162	6270.51904	5460.88525	2.14419
2	5.274	PV S	0.0168	2053.79663	1498.36450	0.70229
3	5.305	BP T	0.0104	332.85837	531.59631	0.11382
4	5.336	PV T	8.68e-3	147.11154	207.32932	0.05030
5	5.437	PV S	0.0343	6658.26172	2330.78442	2.27677
6	5.475	PV S	0.0221	6504.88672	3820.03223	2.22433
7	5.507	BV T	8.76e-3	254.54465	403.54419	0.08704
8	5.521	PV T	2.95e-3	8.70817	47.42864	0.00298
9	5.553	PV S	0.0420	1.38988e4	4038.25903	4.75266
10	5.577	BV T	5.82e-3	177.92534	469.69177	0.06084
11	5.584	PV T	8.77e-3	325.59644	464.90701	0.11134
12	5.611	PV T	0.0165	2186.91895	1607.20935	0.74781
13	5.665	PV S	0.0273	2.47469e4	1.22669e4	8.46212
14	5.750	VV S	0.0450	1.76922e4	4755.83887	6.04979
15	5.806	BV T	0.0140	1575.45215	1373.50903	0.53872
16	5.887	VV S	0.0425	1.75700e4	4967.26904	6.00803
17	5.937	PV S	0.2240	8.78389e4	4595.61914	30.03625

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.962	BV T	2.65e-3	32.26757	183.94156	0.01103
19	5.966	VV T	0.0129	208.26753	269.62140	0.07122
20	5.993	PV T	0.0123	532.52911	551.42480	0.18210
21	6.021	PB T	9.06e-3	182.84666	246.36601	0.06252
22	6.055	BV T	2.73e-3	19.27102	117.61783	0.00659
23	6.061	PV T	1.83e-3	10.71513	97.39419	0.00366
24	6.078	PV T	0.0132	403.12231	385.62363	0.13785
25	6.104	PV T	0.0110	235.97742	286.31421	0.08069
26	6.124	PV T	7.09e-3	121.27293	217.94429	0.04147
27	6.139	PV T	5.68e-3	89.25060	213.51653	0.03052
28	6.152	PV T	0.0105	267.12939	341.48071	0.09134
29	6.161	PV T	6.86e-3	151.78336	282.91608	0.05190
30	6.194	PB T	0.0186	1404.06763	921.07623	0.48012
31	6.232	BV T	0.0103	96.25759	155.30099	0.03291
32	6.280	PV T	0.0134	546.87457	497.15070	0.18700
33	6.291	PV T	7.56e-3	153.88774	339.21997	0.05262
34	6.305	PV T	3.88e-3	40.35263	143.64075	0.01380
35	6.330	PV T	9.86e-3	289.39609	390.08557	0.09896
36	6.341	PB T	0.0136	625.19360	559.77301	0.21378
37	6.381	BV T	4.51e-3	14.18871	52.46165	0.00485
38	6.417	PV T	0.0184	3457.76855	2244.54321	1.18237
39	6.461	PV T	0.0178	2214.16284	1485.84705	0.75713
40	6.466	PV T	0.0146	1328.01624	1517.61829	0.45411
41	6.482	PV T	4.00e-3	288.49997	1203.07520	0.09865
42	6.487	PV T	0.0158	1117.85889	1181.52869	0.38225
43	6.528	PV T	0.0127	1102.65149	1065.56421	0.37705
44	6.536	PV T	0.0128	795.10199	1034.20886	0.27188
45	6.570	PV T	8.30e-3	520.49738	809.92407	0.17798
46	6.576	PV T	0.0104	688.74536	840.60687	0.23551
47	6.595	PV T	3.40e-3	72.96946	357.77625	0.02495
48	6.622	PV T	0.0194	1973.40637	1212.87671	0.67480
49	6.673	PV T	0.0204	1525.56360	916.47736	0.52166
50	6.734	PPAS	0.0594	6.80628e4	1.42374e4	23.27387
51	6.799	BV T	9.76e-3	182.40306	311.41406	0.06237
52	6.819	PV T	0.0106	47.96331	75.18209	0.01640
53	6.856	PV T	0.0126	625.85852	606.84778	0.21401
54	6.882	PV T	0.0280	2931.86475	1248.78687	1.00254
55	6.921	PV T	0.0129	535.73419	506.93802	0.18319
56	6.943	PV T	0.0101	492.42868	606.40033	0.16838
57	6.955	PV T	4.50e-3	204.22540	681.56024	0.06983
58	6.973	PV T	0.0247	2110.31396	1023.64758	0.72162
59	7.030	PV T	6.73e-3	42.95892	106.42675	0.01469
60	7.047	PV T	6.55e-3	117.41973	230.12309	0.04015
61	7.081	PV T	0.0292	3245.87695	1342.52856	1.10992
62	7.139	PV T	3.27e-3	19.91767	101.47105	0.00681
63	7.160	PV T	8.64e-3	330.63156	479.58466	0.11306
64	7.165	PV T	4.60e-3	122.69796	444.09061	0.04196
65	7.169	PV T	0.0102	282.87183	462.02753	0.09673
66	7.189	PV T	0.0148	553.01111	473.99854	0.18910
67	7.204	PV T	0.0131	316.87112	402.78564	0.10835
68	7.231	PV T	5.64e-3	39.53424	91.49164	0.01352
69	7.247	PV T	1.25e-3	1.99866	27.27495	0.00068
70	7.266	PV T	6.08e-3	92.29335	211.78410	0.03156
71	7.274	PV T	0.0119	268.63861	281.54016	0.09186
72	7.306	PV T	0.0132	567.12744	543.78595	0.19393
73	7.313	PV T	8.83e-3	328.42072	476.91360	0.11230
74	7.329	PB T	0.0111	160.95813	241.51369	0.05504
75	7.379	BV T	6.41e-3	86.25674	167.42313	0.02950
76	7.385	PV T	7.89e-3	83.32333	175.98143	0.02849
77	7.402	PV T	6.79e-3	80.48763	146.85973	0.02752
78	7.415	PV T	0.0103	134.75858	165.42018	0.04608
79	7.438	PV T	0.0105	83.54886	96.49829	0.02857
80	7.465	PV T	0.0109	205.38318	241.66612	0.07023
81	7.483	PV T	5.34e-3	95.86949	236.13947	0.03278
82	7.492	PV T	0.0138	298.05606	260.45703	0.10192

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.520	PV T	0.0202	194.74997	117.00314	0.06659
84	7.561	PV T	6.03e-3	52.19197	116.48336	0.01785
85	7.572	PV T	2.86e-3	13.93854	66.08527	0.00477
86	7.598	PV T	6.75e-3	73.61751	139.65088	0.02517
87	7.607	PB T	8.78e-3	126.72290	180.81183	0.04333
88	7.648	BV T	1.84e-3	4.98510	45.25046	0.00170
89	7.657	PV T	0.0121	89.24351	95.60612	0.03052
90	7.678	PV T	3.45e-3	10.71149	51.72659	0.00366
91	7.698	PB T	0.0133	211.48421	190.54797	0.07232
92	7.752	BV T	9.50e-3	64.90034	85.12249	0.02219
93	7.767	PV T	4.49e-3	19.62507	72.80868	0.00671
94	7.785	PV T	8.15e-3	75.01882	129.60448	0.02565

Totals : 2.92443e5 9.69588e4

Results obtained with enhanced integrator!

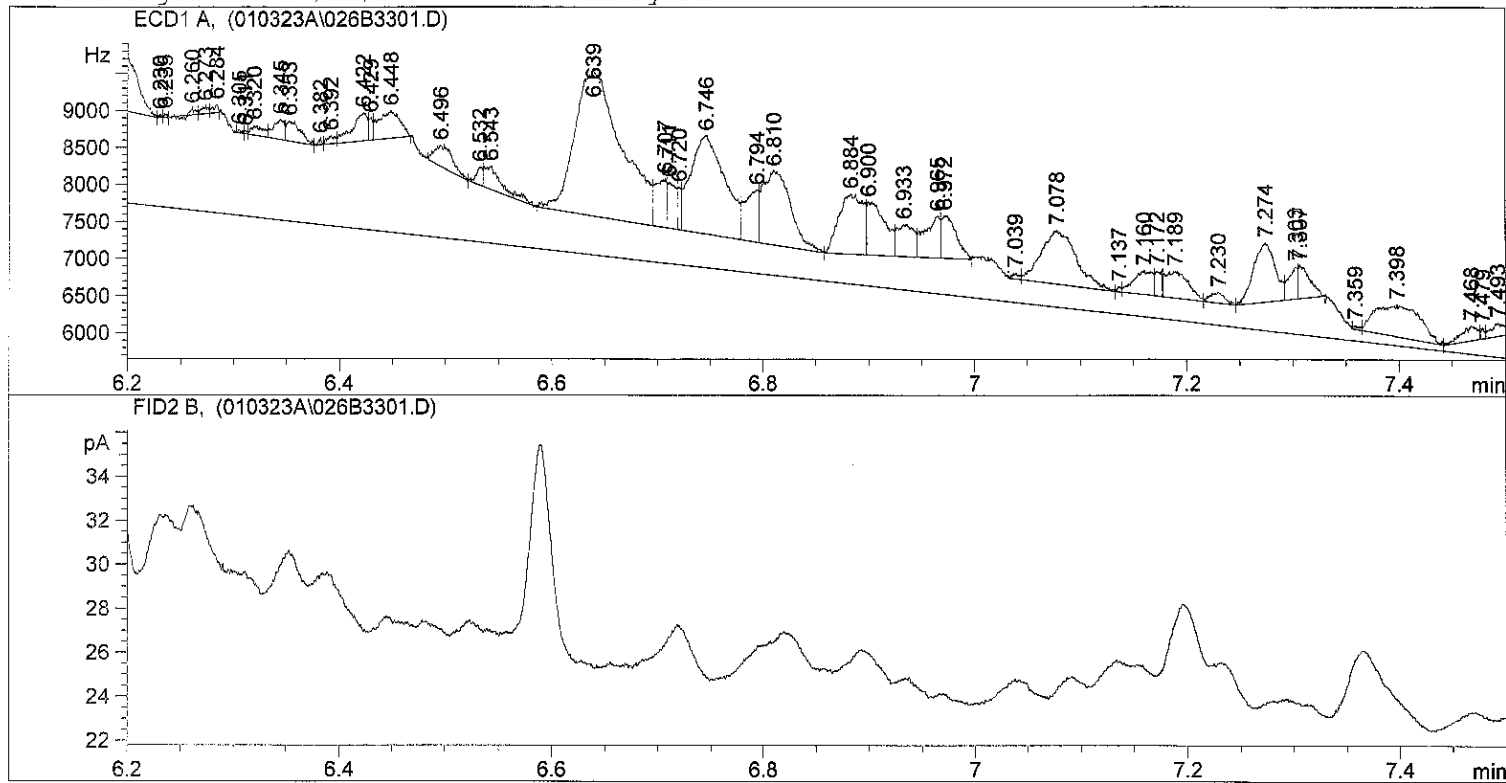
Signal 2: FID2 B,

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*** End of Report ***


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Injection Date : 1/3/2023 9:07:16 PM      Seq. Line : 33
Sample Name    : 22L0459 06                Location  : Vial 26
Acq. Operator : TW                        Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.226	BP	3.49e-3	11.24536	48.84393	0.00561
2	5.249	VV	0.0108	524.45581	601.28430	0.26167
3	5.277	VV	9.83e-3	499.11206	617.32037	0.24903
4	5.298	VV	0.0117	881.49030	976.18884	0.43981
5	5.303	VV	0.0116	982.48370	1065.96094	0.49020
6	5.333	VV	0.0113	295.58066	343.04492	0.14748
7	5.372	VV S	0.0223	6086.79492	3605.08521	3.03697
8	5.435	VV S	0.0321	6406.71875	3325.36621	3.19660
9	5.472	VV S	0.0234	1.30178e4	9252.27539	6.49516
10	5.507	VV S	0.0751	8909.18555	1977.05322	4.44519
11	5.547	BV T	5.37e-3	80.47182	188.98317	0.04015
12	5.560	VV T	6.09e-3	73.14184	167.77863	0.03649
13	5.588	VV T	0.0149	1141.59619	999.57959	0.56959
14	5.621	VV T	0.0165	557.11353	425.29056	0.27797
15	5.643	VV T	4.24e-3	41.08148	161.47922	0.02050
16	5.688	VV S	0.0271	8528.60156	3970.65039	4.25530
17	5.749	VV S	0.0267	1.79350e4	1.11896e4	8.94855

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.859	VV S	0.0647	1.59771e4	3295.85669	7.97168
19	5.937	VV S	0.0384	9151.79590	3967.93628	4.56624
20	5.995	VV S	0.0493	1.14098e4	3856.68140	5.69286
21	6.030	VBAS	0.5052	6.49088e4	2141.17822	32.38591
22	6.081	BV T	0.0107	409.19382	464.60925	0.20417
23	6.092	VV T	0.0177	689.76794	482.98761	0.34416
24	6.136	PV T	6.59e-3	101.25823	190.73509	0.05052
25	6.148	PV T	0.0107	223.16255	262.82114	0.11135
26	6.159	PV T	8.13e-3	137.29079	281.41028	0.06850
27	6.190	PV T	0.0248	1589.17102	766.49963	0.79291
28	6.230	PV T	2.37e-3	5.10314	35.92162	0.00255
29	6.235	PV T	2.63e-3	6.75476	42.83465	0.00337
30	6.260	PV T	2.88e-3	10.51782	82.64822	0.00525
31	6.273	PV T	6.94e-3	41.02384	98.58339	0.02047
32	6.284	PB T	4.74e-3	37.45205	110.88524	0.01869
33	6.305	BV T	2.92e-3	8.18026	41.19619	0.00408
34	6.311	PV T	3.46e-3	7.26091	34.95316	0.00362
35	6.320	PV T	9.90e-3	107.67729	132.17738	0.05373
36	6.345	PV T	8.93e-3	192.91541	270.27640	0.09625
37	6.353	PV T	0.0109	243.63077	270.41647	0.12156
38	6.382	PV T	3.17e-3	15.26832	82.17674	0.00762
39	6.392	PV T	6.51e-3	52.08480	106.48063	0.02599
40	6.422	PV T	0.0131	373.68723	372.17435	0.18645
41	6.429	PV T	3.55e-3	75.46436	298.38773	0.03765
42	6.448	PB T	0.0177	521.99463	365.18628	0.26045
43	6.496	BV T	0.0150	344.96545	279.17960	0.17212
44	6.532	PV T	5.55e-3	100.15743	245.99596	0.04997
45	6.543	PV T	0.0144	365.04724	312.87570	0.18214
46	6.639	PV T	0.0366	6043.92334	1958.28650	3.01558
47	6.707	PV T	0.0106	501.36176	651.42682	0.25015
48	6.711	PV T	8.75e-3	324.01779	617.32660	0.16167
49	6.720	PV T	3.91e-3	134.25764	572.47168	0.06699
50	6.746	PV T	0.0274	3020.15039	1325.81702	1.50689
51	6.794	PV T	0.0122	661.90466	701.26208	0.33025
52	6.810	PV T	0.0221	1825.96277	991.93512	0.91105
53	6.884	PV T	0.0192	1288.47339	809.66974	0.64288
54	6.900	PV T	0.0197	840.09088	709.68207	0.41916
55	6.933	PV T	0.0137	483.20258	429.40857	0.24109
56	6.965	PV T	0.0125	550.74750	556.55731	0.27479
57	6.972	PB T	0.0123	574.19110	573.86298	0.28649
58	7.039	BV T	6.21e-3	33.53013	78.08337	0.01673
59	7.078	PV T	0.0275	1655.58325	717.68292	0.82604
60	7.137	PV T	3.74e-3	16.73082	66.38870	0.00835
61	7.160	PV T	0.0161	400.32022	312.97812	0.19974
62	7.172	PV T	6.78e-3	136.95398	336.45398	0.06833
63	7.189	PV T	0.0184	537.75873	359.53455	0.26831
64	7.230	PV T	0.0115	131.31801	140.23898	0.06552
65	7.274	PV T	0.0170	1126.10547	791.34619	0.56186
66	7.303	PV T	7.70e-3	253.08098	427.76559	0.12627
67	7.307	PB T	0.0130	337.82489	434.37656	0.16856
68	7.359	BV T	6.60e-3	19.38106	48.91032	0.00967
69	7.398	PV T	0.0348	1253.29102	424.76181	0.62532
70	7.468	PV T	0.0138	205.19495	193.80188	0.10238
71	7.479	PV T	4.05e-3	33.66053	138.64389	0.01679
72	7.493	PB T	0.0118	154.78618	170.80373	0.07723
73	7.566	PV T	2.32e-3	3.64917	26.20828	0.00182
74	7.615	PV T	0.0419	3277.91284	934.39014	1.63550
75	7.682	PV T	0.0148	442.51541	380.65738	0.22079
76	7.706	PV T	0.0238	982.79175	493.51447	0.49036
77	7.748	PV T	3.99e-3	13.19375	42.91692	0.00658
78	7.756	PV T	2.12e-3	3.24891	25.49825	0.00162
79	7.769	PV T	5.99e-3	41.26814	89.32729	0.02059
80	7.775	PB T	5.40e-3	36.31833	88.34811	0.01812

Totals : 2.00423e5 7.44292e4

Results obtained with enhanced integrator!

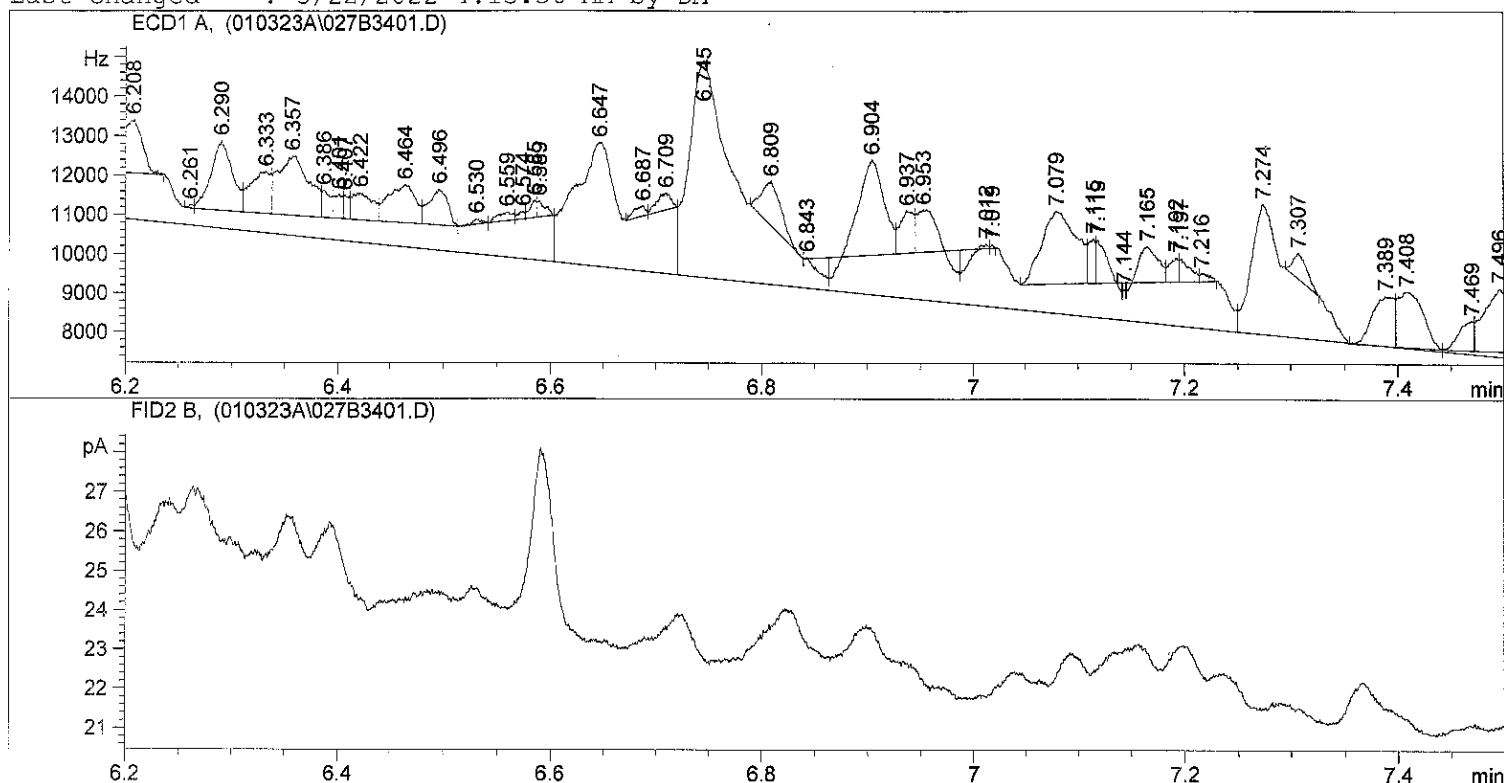
Signal 2: FID2 B,

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*** End of Report ***

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Injection Date : 1/3/2023 9:18:29 PM      Seq. Line : 34
Sample Name    : 22L0473 11                Location  : Vial 27
Acq. Operator  : TW                        Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\2\SEQUENCE\010323A.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	5.215	BP S	0.0183	5.20287e4	4.69656e4	2.52105
2	5.301	PV S	0.0148	3122.99341	2713.31372	0.15132
3	5.328	PB T	4.31e-3	34.09563	113.22338	0.00165
4	5.374	PV S	0.0307	1.52510e4	6200.43652	0.73899
5	5.436	BV T	0.0168	2464.90894	1963.09619	0.11944
6	5.474	PV S	0.0228	1.16515e4	6674.22266	0.56457
7	5.559	PV S	0.0355	6.54953e4	2.26851e4	3.17357
8	5.613	PV S	0.0344	2.85062e4	1.38249e4	1.38127
9	5.668	PV S	0.0410	3.42940e4	1.39568e4	1.66172
10	5.751	PV S	0.0251	1.83254e4	9759.51855	0.88795
11	5.813	PV S	0.0570	3.04071e4	6292.06934	1.47338
12	5.863	BV T	0.0149	1440.19031	1211.58215	0.06978
13	5.876	PV T	4.77e-3	286.98431	1003.42676	0.01391
14	5.894	PV T	0.0185	3431.23975	2339.96289	0.16626
15	5.945	PV S	0.1028	5.08237e4	5882.84619	2.46266
16	5.997	BV T	6.07e-3	191.08545	457.47446	0.00926
17	6.001	PV T	9.45e-3	332.82306	587.02600	0.01613

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.032	PB T	0.0112	662.57910	730.21539	0.03211
19	6.081	BV T	0.0206	1047.32275	603.66876	0.05075
20	6.123	PV T	9.56e-3	247.92628	322.97919	0.01201
21	6.154	PV T	0.0196	1076.50256	669.11517	0.05216
22	6.168	PV T	3.85e-3	106.51150	460.64590	0.00516
23	6.208	PB T	0.0229	2569.18237	1346.05762	0.12449
24	6.261	BV T	4.18e-3	30.06592	98.04467	0.00146
25	6.290	PV T	0.0180	2505.57788	1756.40405	0.12141
26	6.333	PV T	0.0170	1434.81702	1061.46057	0.06952
27	6.357	PV T	0.0239	3000.71021	1504.40881	0.14540
28	6.386	PV T	9.05e-3	373.64316	688.27838	0.01810
29	6.401	PV T	0.0101	369.34723	608.18188	0.01790
30	6.407	PV T	5.89e-3	209.69101	593.34552	0.01016
31	6.422	PV T	0.0173	953.74323	691.64294	0.04621
32	6.464	PV T	0.0215	1711.80457	966.00385	0.08295
33	6.496	PV T	0.0149	1125.41125	915.19574	0.05453
34	6.530	PV T	6.28e-3	66.99146	137.68544	0.00325
35	6.559	PV T	0.0121	211.94048	217.86296	0.01027
36	6.574	PV T	5.83e-3	84.35546	188.25154	0.00409
37	6.585	PV T	6.87e-3	203.20251	433.60934	0.00985
38	6.589	PV T	8.54e-3	205.88625	401.70667	0.00998
39	6.647	PV S	0.0481	1.28298e4	3148.14673	0.62167
40	6.687	BV T	0.0107	215.97035	253.36403	0.01046
41	6.709	PV T	0.0120	418.09491	429.06198	0.02026
42	6.745	PV S	0.0922	4.28332e4	5491.73096	2.07548
43	6.809	BV T	0.0166	1433.94934	1118.93481	0.06948
44	6.843	PV T	0.0000	390.82422	33.03114	0.01894
45	6.904	PV T	0.0197	3740.47510	2414.46631	0.18124
46	6.937	PV T	0.0120	1028.78027	1069.49158	0.04985
47	6.953	PV T	0.0110	986.08301	1083.26611	0.04778
48	7.012	PV T	0.0000	277.08508	111.40981	0.01343
49	7.019	PB T	2.90e-3	14.93517	85.97125	0.00072
50	7.079	BV T	0.0279	4213.11914	1841.63098	0.20415
51	7.115	PV T	6.31e-3	527.56982	1117.28296	0.02556
52	7.119	PV T	0.0102	677.61682	1105.85413	0.03283
53	7.144	PV T	4.51e-3	48.01378	177.48375	0.00233
54	7.165	PV T	0.0153	1076.59351	900.83319	0.05217
55	7.192	PV T	7.82e-3	381.87317	616.83386	0.01850
56	7.197	PV T	0.0116	417.58496	597.60449	0.02023
57	7.216	PB T	0.0102	130.43822	212.92488	0.00632
58	7.274	PV S	0.0384	1.06549e4	3324.17944	0.51628
59	7.307	BB T	0.0125	603.43805	635.52869	0.02924
60	7.389	PV T	0.0172	1804.85754	1266.40649	0.08745
61	7.408	PV T	0.0201	2336.13379	1415.40686	0.11320
62	7.469	PV T	0.0123	728.71924	758.80420	0.03531
63	7.496	PV T	0.0261	3532.53540	1618.35608	0.17117
64	7.612	PBAS	0.0452	1.28438e4	3619.95435	0.62235
65	7.708	BV T	0.0231	1908.08838	998.95795	0.09246
66	7.751	PV T	3.06e-3	19.20299	91.06499	0.00093
67	7.778	PV T	0.0195	1054.64429	666.56506	0.05110

Totals : 2.06377e6 1.93230e5

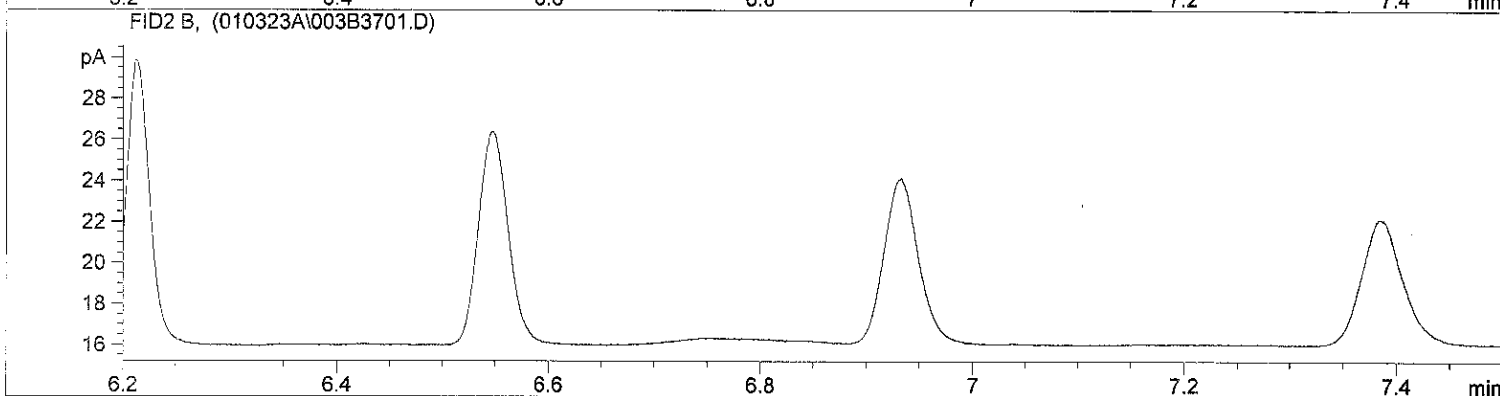
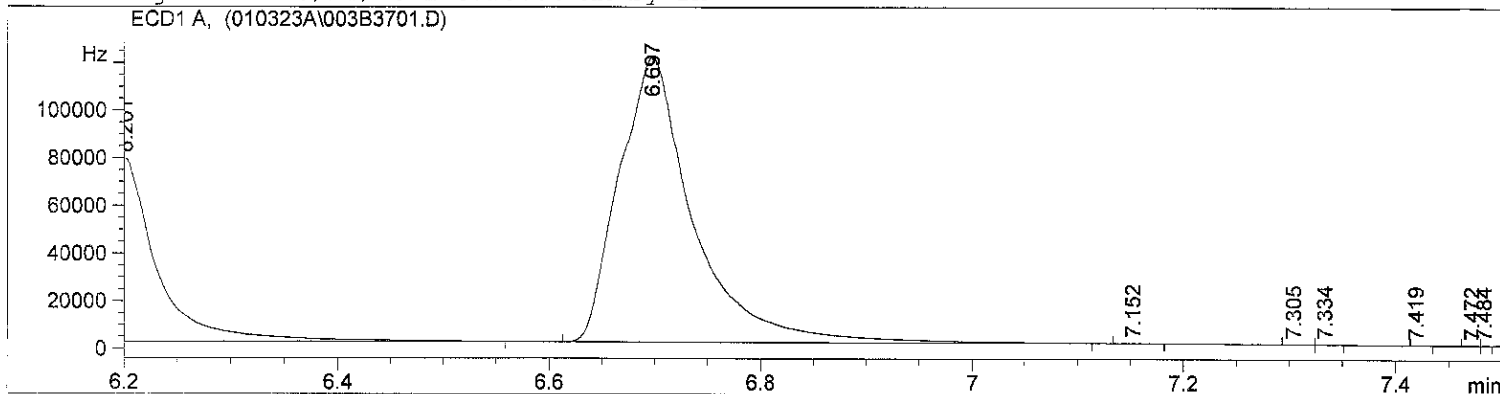
Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

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=====
Injection Date   : 1/3/2023 9:52:06 PM      Seq. Line   : 37
Sample Name     : CS4 STD                   Location    : Vial 3
Acq. Operator   : TW                       Inj        : 1
                                           Inj Volume  : 1 µl
Sequence File   : C:\HPCHEM\2\SEQUENCE\010323A.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	5.297	BP	4.25e-3	172.09354	978.69702	0.00524
2	5.409	VP	0.0205	76.01234	44.18110	0.00232
3	5.515	VV S	0.0331	5.52256e5	2.24782e5	16.82429
4	5.613	VV S	0.0461	8.10714e5	2.93264e5	24.69813
5	5.676	VV S	0.0404	2.70958e5	1.11824e5	8.25464
6	5.726	VV S	0.0565	3.07167e5	9.05842e4	9.35775
7	5.968	VV S	0.0417	2.94274e5	1.17651e5	8.96497
8	6.120	VV S	0.0431	2.08195e5	8.04215e4	6.34258
9	6.201	VB S	0.0551	2.54196e5	7.69499e4	7.74400
10	6.697	PB S	0.0611	5.84032e5	1.19839e5	17.79235
11	7.152	PB	0.0154	30.36307	23.62431	0.00093
12	7.305	PV	0.0163	12.90865	9.72777	0.00039
13	7.334	VB	0.0147	44.39241	36.71929	0.00135
14	7.419	PP	5.15e-3	5.03835	12.91990	0.00015
15	7.472	PP	6.38e-3	6.57538	13.26071	0.00020
16	7.484	VP	3.14e-3	2.51085	11.52904	7.649e-5
17	7.647	BB	0.0291	323.42148	131.33997	0.00985

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	7.721	BP	9.75e-3	12.77324	21.82924	0.00039
19	7.735	VB	4.28e-3	3.62577	11.50904	0.00011
20	7.754	BB	8.52e-3	9.03410	14.38908	0.00028

Totals : 3.28249e6 1.11663e6

Results obtained with enhanced integrator!

Signal 2: FID2 B,

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*** End of Report ***



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CLA0121

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
LDW21-IT632A	22L0473-11	23020720	01/11/2023	
Blank	BLA0079-BLK1	23020704	01/11/2023	
LCS	BLA0079-BS1	23020705	01/11/2023	
Reference	BLA0079-SRM1	23020706	01/11/2023	



CLEANUP BENCH SHEET

CLA0121

Matrix: Solid

Cleanup using: HRGCMS - EPA 3665 Sulfuric Acid Cleanup - uL

Printed: 1/13/2023 1:23:13PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0383-06	C	LDW23-SC1191B	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0383-07	C	LDW23-SC1191B-FD	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-01	C	LDW23-SC1064C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-02	C	LDW23-SC1065C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-03	C	LDW23-SC1060D	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-04	C	LDW23-SC1059C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-06	C	LDW23-SC1046C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0417-07	C	LDW23-SC1143C	C 01	20	20	1613B Dioxin	1/11/2023	DxP	
22L0459-02	A	LDW23-SC1053C	A 04	20	20	1613B Dioxin	1/11/2023	DxP	
22L0459-06	A	LDW23-SC1070B	A 04	20	20	1613B Dioxin	1/11/2023	DxP	
22L0473-11	A	LDW21-IT632A	A 02	20	20	1613B Dioxin	1/11/2023	DxP	
BLA0079-BLK1	-	Blank	-	20	20	-	1/11/2023	DxP	
BLA0079-BS1	-	LCS	-	20	20	-	1/11/2023	DxP	
BLA0079-DUP1	-	Duplicate	-	20	20	-	1/11/2023	DxP	
BLA0079-SRM1	-	Reference	-	20	20	-	1/11/2023	DxP	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CLA0122

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
LDW21-IT632A	22L0473-11	23020720	01/12/2023	
Blank	BLA0079-BLK1	23020704	01/12/2023	
LCS	BLA0079-BS1	23020705	01/12/2023	
Reference	BLA0079-SRM1	23020706	01/12/2023	



CLEANUP BENCH SHEET

CLA0122

Matrix: Solid

Cleanup using: HRGCMS - EPA 3660C Silica Gel Cleanup - uL

Printed: 1/13/2023 1:23:34PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0383-06	C	LDW23-SC1191B	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0383-07	C	LDW23-SC1191B-FD	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-01	C	LDW23-SC1064C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-02	C	LDW23-SC1065C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-03	C	LDW23-SC1060D	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-04	C	LDW23-SC1059C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-06	C	LDW23-SC1046C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-07	C	LDW23-SC1143C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0459-02	A	LDW23-SC1053C	A 04	20	20	1613B Dioxin	1/12/2023	DxP	
22L0459-06	A	LDW23-SC1070B	A 04	20	20	1613B Dioxin	1/12/2023	DxP	
22L0473-11	A	LDW21-IT632A	A 02	20	20	1613B Dioxin	1/12/2023	DxP	
BLA0079-BLK1	-	Blank	-	20	20	-	1/12/2023	DxP	
BLA0079-BS1	-	LCS	-	20	20	-	1/12/2023	DxP	
BLA0079-DUP1	-	Duplicate	-	20	20	-	1/12/2023	DxP	
BLA0079-SRM1	-	Reference	-	20	20	-	1/12/2023	DxP	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CLA0123

Cleanup Type: Florisil

Cleanup Method: EPA 3620B Florisil Cleanup (uL)

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW21-IT632A	22L0473-11	23020720	01/12/2023	
Blank	BLA0079-BLK1	23020704	01/12/2023	
LCS	BLA0079-BS1	23020705	01/12/2023	
Reference	BLA0079-SRM1	23020706	01/12/2023	



CLEANUP BENCH SHEET

CLA0123

Matrix: Solid

Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup (uL)

Check Standard: CKK0015-FLO1

Printed: 1/13/2023 1:23:56PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0383-06	C	LDW23-SC1191B	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0383-07	C	LDW23-SC1191B-FD	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-01	C	LDW23-SC1064C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-02	C	LDW23-SC1065C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-03	C	LDW23-SC1060D	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-04	C	LDW23-SC1059C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-06	C	LDW23-SC1046C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0417-07	C	LDW23-SC1143C	C 01	20	20	1613B Dioxin	1/12/2023	DxP	
22L0459-02	A	LDW23-SC1053C	A 04	20	20	1613B Dioxin	1/12/2023	DxP	
22L0459-06	A	LDW23-SC1070B	A 04	20	20	1613B Dioxin	1/12/2023	DxP	
22L0473-11	A	LDW21-IT632A	A 02	20	20	1613B Dioxin	1/12/2023	DxP	
BLA0079-BLK1	-	Blank	-	20	20	-	1/12/2023	DxP	
BLA0079-BS1	-	LCS	-	20	20	-	1/12/2023	DxP	
BLA0079-DUP1	-	Duplicate	-	20	20	-	1/12/2023	DxP	
BLA0079-SRM1	-	Reference	-	20	20	-	1/12/2023	DxP	



Blank

Form 1
METHOD BLANK DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>22L0473</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>AOC4 UR Phase 3</u>	
Matrix: <u>Solid</u>	Laboratory ID: <u>BLA0079-BLK1</u>	File ID: <u>23020704</u>
Sampled: <u>N/A</u>	Prepared: <u>01/09/23 15:50</u>	Analyzed: <u>02/07/23 11:09</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>SLB0072</u>	Calibration: <u>GB00010</u>
Batch: <u>BLA0079</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	0.149	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.133	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.146	1.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.145	1.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	1.117	1.318-1.783	0.184	1.00	0.216	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.808	1.054-1.426	0.108	1.00	0.190	ng/kg	EMPC, J
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.423	1.054-1.426	0.099	1.00	0.168	ng/kg	J
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.812	1.054-1.426	0.105	1.00	0.202	ng/kg	EMPC, J
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.982	1.054-1.426	0.121	1.00	0.262	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.152	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	1.073	1.054-1.426	0.151	1.00	0.289	ng/kg	J
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.840	0.893-1.208	0.121	1.00	0.501	ng/kg	EMPC, J
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.169	1.00	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.008	0.893-1.208	0.163	2.50	1.09	ng/kg	J
39001-02-0	OCDF	1	0.853	0.757-1.024	0.248	2.50	2.20	ng/kg	J
3268-87-9	OCDD	1	0.871	0.757-1.024	0.263	10.0	6.29	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	0.168	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	0.289	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	0.772	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	1.59	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC):	0.346
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC):	0.459



Blank

Form 2
METHOD BLANK DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0473</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	Solid	Laboratory ID:	<u>BLA0079-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>01/09/23 15:50</u>
Solids Wt%:	<u>0.00</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLB0072</u>
Batch:	<u>BLA0079</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23020704</u>
		Analyzed:	<u>02/07/23 11:09</u>
		Initial/Final:	<u>10 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	1	0.779	0.655-0.886	0.17	78.6	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.775	0.655-0.886	0.24	90.3	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.510	1.318-1.783	0.22	92.3	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.553	1.318-1.783	0.23	89.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.646	1.318-1.783	0.22	94.0	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.506	0.434-0.587	0.31	100	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.512	0.434-0.587	0.30	101	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.499	0.434-0.587	0.32	98.5	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.503	0.434-0.587	0.35	94.3	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.293	1.054-1.426	0.36	106	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.273	1.054-1.426	0.35	108	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.438	0.374-0.506	0.34	92.7	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.453	0.374-0.506	0.39	93.5	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.118	0.893-1.208	0.33	96.6	23 - 140 %	
13C12-OCDD	1	0.909	0.757-1.024	0.32	85.8	17 - 157 %	
37Cl4-2,3,7,8-TCDD	1	328.000		0.08	73.3	35 - 197 %	

* Values outside of QC limits

Quant Sample Summary Report **MassLynx MassLynx V4.1 SCN909**
 Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
 Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
 Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10

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

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	740	971								
12378-PeCDF					0.845		1.550	735	962								
23478-PeCDF					0.911		1.550	735	962								
123478-HxCDF	34.984	1.000	2.010e2	2.487e2	1.182	0.808	1.240	704	649	4.14e3	4.13e3	5.9	6.4	YES	bd	bd	0.095
234678-HxCDF	35.987	1.000	3.033e2	1.673e2	1.229	1.812	1.240	704	649	4.12e3	3.05e3	5.8	4.7	YES	bb	bb	0.101
123678-HxCDF	35.140	1.001	2.558e2	1.797e2	1.248	1.423	1.240	704	649	4.94e3	4.87e3	7.0	7.5	NO	db	MM	0.084
123789-HxCDF	37.023	1.001	2.556e2	2.602e2	1.187	0.982	1.240	704	649	4.48e3	3.81e3	6.4	5.9	YES	bb	bb	0.131
1234678-HpCDF	38.861	1.001	5.022e2	5.978e2	1.204	0.840	1.050	873	581	7.99e3	9.56e3	9.2	16.4	YES	bb	bb	0.251
1234789-HpCDF					1.165		1.050	873	581								
OCDF	45.358	1.006	1.541e3	1.807e3	1.186	0.853	0.890	832	713	2.37e4	2.38e4	28.4	33.3	NO	bb	bb	1.099
2378-TCDD					1.236		0.770	874	692								
12378-PeCDD	31.619	1.000	2.051e2	1.835e2	1.087	1.117	1.550	816	772	5.52e3	2.93e3	6.8	3.8	YES	bb	bb	0.108
123478-HxCDD					0.987		1.240	734	806								
123678-HxCDD					1.021		1.240	734	806								
123789-HxCDD	36.599	1.011	2.842e2	2.647e2	0.985	1.073	1.240	734	806	4.22e3	5.22e3	5.8	6.5	NO	bb	bb	0.144
1234678-HpCDD	40.354	1.000	9.809e2	9.731e2	1.253	1.008	1.050	765	682	1.44e4	1.46e4	18.8	21.5	NO	bb	bb	0.544
OCDD	45.129	1.001	4.144e3	4.756e3	1.103	0.871	0.890	687	832	5.04e4	6.74e4	73.3	81.0	NO	bb	bb	3.144
13C-2378-TCDF	25.867	1.006	2.342e5	3.005e5	1.768	0.779	0.770	1577	1258	3.44e6	4.35e6	2178.3	3455.0	NO	bb	bb	78.576
13C-12378-PeCDF	30.026	1.168	3.264e5	2.161e5	1.527	1.510	1.550	1681	1612	4.96e6	3.24e6	2952.7	2013.2	NO	bb	bd	92.302
13C-23478-PeCDF	31.363	1.220	3.057e5	1.969e5	1.466	1.553	1.550	1681	1612	4.69e6	3.02e6	2790.6	1875.6	NO	bb	bb	89.047
13C-123478-HxCDF	34.973	0.956	1.348e5	2.665e5	1.054	0.506	0.510	1407	2008	2.14e6	4.27e6	1521.7	2128.0	NO	bd	bd	100.370
13C-123678-HxCDF	35.118	0.960	1.408e5	2.749e5	1.080	0.512	0.510	1407	2008	2.24e6	4.32e6	1589.1	2151.7	NO	db	db	101.445
13C-234678-HxCDF	35.975	0.983	1.262e5	2.529e5	1.014	0.499	0.510	1407	2008	2.09e6	4.15e6	1484.6	2069.5	NO	bb	bb	98.521
13C-123789-HxCDF	37.001	1.011	1.111e5	2.210e5	0.928	0.503	0.510	1407	2008	1.89e6	3.72e6	1340.3	1852.2	NO	bb	bb	94.343
13C-1234678-HpCDF	38.839	1.062	1.110e5	2.534e5	1.036	0.438	0.440	1558	2135	1.83e6	3.99e6	1173.1	1867.7	NO	bb	bd	92.688
13C-1234789-HpCDF	41.090	1.123	1.002e5	2.210e5	0.905	0.453	0.440	1558	2135	1.38e6	3.04e6	886.9	1423.9	NO	bb	bd	93.537
13C-1234-TCDD	25.700	0.000	1.709e5	2.140e5	1.000	0.799	0.770	1474	1063	2.58e6	3.24e6	1750.7	3043.8	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.032	1.674e5	2.159e5	1.103	0.775	0.770	1474	1063	2.50e6	3.24e6	1695.5	3042.9	NO	bb	bb	90.285
13C-12378-PeCDD	31.608	1.230	2.058e5	1.250e5	0.914	1.646	1.550	1090	851	2.97e6	1.81e6	2725.3	2128.9	NO	bd	bb	94.001
13C-123478-HxCDD	36.087	0.986	2.122e5	1.642e5	0.933	1.293	1.240	1803	1732	3.47e6	2.71e6	1924.8	1564.1	NO	bd	bd	106.336
13C-123678-HxCDD	36.198	0.989	2.210e5	1.736e5	0.965	1.273	1.240	1803	1732	3.49e6	2.77e6	1934.1	1599.1	NO	db	db	107.815
13C-1234678-HpCDD	40.343	1.103	1.514e5	1.354e5	0.782	1.118	1.050	1426	1283	2.24e6	2.08e6	1569.3	1622.0	NO	bb	bb	96.637
13C-OCDD	45.102	1.233	2.444e5	2.690e5	0.788	0.909	0.890	1283	1370	3.00e6	3.29e6	2335.0	2399.8	NO	bb	bb	171.672
13C-123789-HxCDD	36.588	0.000	2.099e5	1.695e5	1.000	1.238	1.240	1803	1732	3.50e6	2.78e6	1943.7	1606.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	1.392e5	1.233				947		2.12e6		2235.6			bb		29.315

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	740	971								
1289-TCDF					0.858		0.770	740	971								
13468-PECDF					1.013		1.550	637	952								
12389-PECDF					0.844		1.550	735	962								
123468-HXCDF	33.324	0.953	8.078e1	8.816e1	1.197	0.916	1.240	704	649	1.34e3	1.61e3	1.9	2.5	YES	bb	bb	0.035
1368-TCDD					1.084		0.770	874	692								
1289-TCDD					0.975		0.770	874	692								
12479-PECDD					1.837		1.550	816	772								
12389-PECDD					1.252		1.550	816	772								
124679-HXCDD					1.033		1.240	734	806								
1234679-HPCDD	39.307	0.974	4.636e2	4.600e2	1.286	1.008	1.050	765	682	6.10e3	7.65e3	8.0	11.2	NO	bb	bb	0.250
Total-tetrafurans			0.000e0		0.933			740		0.00e0							
Total-penta1			0.000e0					637		0.00e0							
Total-pentafurans			0.000e0		0.866			735		0.00e0							
Total-hexafurans			2.558e2		1.208			704		4.94e3							0.084
Total-heptafurans			7.679e2		1.185			873		1.18e4							0.386
Total-Furans			2.564e3		1.067			740		4.04e4							1.569
Total-tetradoxins			0.000e0		1.099			874		0.00e0							
Total-pentadoxins			0.000e0		1.392			816		0.00e0							
Total-hexadoxins			2.842e2		1.007			734		4.22e3							0.144
Total-heptadoxins			1.444e3		1.269			765		2.05e4							0.795
Total-Dioxins			5.873e3		1.165			874		7.51e4							4.083
Total-TEQ			8.437e3					874		1.15e5							5.653
FUNCTION1 PFK			2.062e7					289446		1.38e8							
FUNCTION2 PFK			2.761e4					221887		7.81e5							0.000
FUNCTION3 PFK			4.027e5					199611		9.97e6							0.000
FUNCTION4 PFK			1.375e7					180006		9.29e7							
FUNCTION5 PFK			4.075e4					120986		1.78e6							
FUNCTION1 HXCD...			6.277e2					470		7.86e3							0.000
FUNCTION1 HPCD...			4.360e2					689		6.58e3							0.000
FUNCTION2 HPCD...			6.163e2					858		1.13e4							0.000
FUNCTION3 OCDPE			3.347e2					624		4.96e3							0.000
FUNCTION4 NCDPE			8.255e1					711		1.97e3							0.000
FUNCTION5 DCDPE			0.000e0					561		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10**Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	123678-HxCDF	35.14	2.558e2	1.797e2	1.248	1.42	1.24	7.0	YES	NO	db	MM	0.084

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.52	7.679e2	8.000e2	1.185	0.96	1.05	13.5	YES	NO	bb	bb	0.386

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	123678-HxCDF	35.14	2.558e2	1.797e2	1.248	1.42	1.24	7.0	YES	NO	db	MM	0.084
2	OCDF	45.36	1.541e3	1.807e3	1.186	0.85	0.89	28.4	YES	NO	bb	bb	1.099
3	Total-heptafurans	39.52	7.679e2	8.000e2	1.185	0.96	1.05	13.5	YES	NO	bb	bb	0.386

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\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

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ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	36.60	2.842e2	2.647e2	0.985	1.07	1.24	5.8	YES	NO	bb	bb	0.144

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	9.809e2	9.731e2	1.253	1.01	1.05	18.8	YES	NO	bb	bb	0.544
2	1234679-HPCDD	39.31	4.636e2	4.600e2	1.286	1.01	1.05	8.0	YES	NO	bb	bb	0.250

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	36.60	2.842e2	2.647e2	0.985	1.07	1.24	5.8	YES	NO	bb	bb	0.144
2	1234678-HpCDD	40.35	9.809e2	9.731e2	1.253	1.01	1.05	18.8	YES	NO	bb	bb	0.544
3	1234679-HPCDD	39.31	4.636e2	4.600e2	1.286	1.01	1.05	8.0	YES	NO	bb	bb	0.250
4	OCDD	45.13	4.144e3	4.756e3	1.103	0.87	0.89	73.3	YES	NO	bb	bb	3.144

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.14	2.558e2	1.797e2	1.248	1.42	1.24	7.0	YES	NO	db	MM	0.084
2	OCDF	45.36	1.541e3	1.807e3	1.186	0.85	0.89	28.4	YES	NO	bb	bb	1.099
3	Total-heptafurans	39.52	7.679e2	8.000e2	1.185	0.96	1.05	13.5	YES	NO	bb	bb	0.386
4	123789-HxCDD	36.60	2.842e2	2.647e2	0.985	1.07	1.24	5.8	YES	NO	bb	bb	0.144
5	1234678-HpCDD	40.35	9.809e2	9.731e2	1.253	1.01	1.05	18.8	YES	NO	bb	bb	0.544
6	1234679-HPCDD	39.31	4.636e2	4.600e2	1.286	1.01	1.05	8.0	YES	NO	bb	bb	0.250
7	OCDD	45.13	4.144e3	4.756e3	1.103	0.87	0.89	73.3	YES	NO	bb	bb	3.144

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	2.853e5					18.2	YES		bd		
2	FUNCTION1 PFK	21.97	4.654e5					15.4	YES		db		
3	FUNCTION1 PFK	21.84	8.322e5					15.7	YES		dd		
4	FUNCTION1 PFK	21.62	7.346e5					12.5	YES		dd		
5	FUNCTION1 PFK	21.35	2.976e5					7.6	YES		dd		
6	FUNCTION1 PFK	21.25	1.134e5					5.5	YES		dd		
7	FUNCTION1 PFK	21.16	2.512e4					3.0	NO		bd		
8	FUNCTION1 PFK	24.85	1.676e5					4.9	YES		db		
9	FUNCTION1 PFK	24.67	3.364e5					10.2	YES		dd		
10	FUNCTION1 PFK	24.64	2.823e5					10.4	YES		bd		
11	FUNCTION1 PFK	24.38	7.145e5					16.4	YES		db		
12	FUNCTION1 PFK	24.23	5.193e5					18.8	YES		dd		
13	FUNCTION1 PFK	24.19	4.078e5					18.4	YES		dd		
14	FUNCTION1 PFK	24.02	5.881e5					21.7	YES		dd		
15	FUNCTION1 PFK	23.90	7.965e5					24.0	YES		dd		
16	FUNCTION1 PFK	23.72	2.742e6					26.8	YES		dd		
17	FUNCTION1 PFK	23.37	1.635e6					30.5	YES		bd		
18	FUNCTION1 PFK	23.21	1.009e6					31.8	YES		db		
19	FUNCTION1 PFK	23.04	2.450e6					30.9	YES		dd		
20	FUNCTION1 PFK	22.83	8.531e5					27.9	YES		dd		
21	FUNCTION1 PFK	22.66	1.149e6					25.6	YES		bd		
22	FUNCTION1 PFK	22.40	1.294e6					24.8	YES		db		
23	FUNCTION1 PFK	22.25	8.995e5					22.2	YES		dd		
24	FUNCTION1 PFK	28.16	7.817e3					0.9	NO		bb		
25	FUNCTION1 PFK	27.86	5.778e4					1.5	NO		bb		
26	FUNCTION1 PFK	27.70	7.108e4					2.1	NO		bb		
27	FUNCTION1 PFK	27.50	2.242e4					1.9	NO		db		
28	FUNCTION1 PFK	27.44	7.228e4					2.8	NO		bd		
29	FUNCTION1 PFK	27.17	1.572e4					1.6	NO		bb		
30	FUNCTION1 PFK	27.05	3.013e4					2.3	NO		db		
31	FUNCTION1 PFK	26.95	2.813e4					1.7	NO		bd		
32	FUNCTION1 PFK	26.71	3.118e4					1.8	NO		bb		
33	FUNCTION1 PFK	26.29	7.879e4					1.0	NO		db		
34	FUNCTION1 PFK	25.99	4.197e5					7.7	YES		bd		
35	FUNCTION1 PFK	25.85	3.007e4					3.4	YES		db		
36	FUNCTION1 PFK	25.68	5.685e5					11.3	YES		bd		
37	FUNCTION1 PFK	25.49	4.547e5					10.0	YES		db		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

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Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	25.29	1.379e5					4.7	YES		bd		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.25	2.051e4					1.9	NO		bb		0.000
2	FUNCTION2 PFK	30.76	4.081e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	28.39	3.015e3					0.7	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

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Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	34.65	7.287e3					1.0	NO		db		0.000
2	FUNCTION3 PFK	34.58	2.427e3					0.5	NO		bd		0.000
3	FUNCTION3 PFK	34.42	9.359e3					1.2	NO		bb		0.000
4	FUNCTION3 PFK	34.29	3.216e4					1.6	NO		db		0.000
5	FUNCTION3 PFK	34.15	1.238e4					1.0	NO		bd		0.000
6	FUNCTION3 PFK	34.09	9.138e2					0.4	NO		bb		0.000
7	FUNCTION3 PFK	33.98	1.889e3					0.6	NO		bb		0.000
8	FUNCTION3 PFK	33.93	6.135e3					1.2	NO		bb		0.000
9	FUNCTION3 PFK	33.35	1.212e4					1.3	NO		bb		0.000
10	FUNCTION3 PFK	33.11	2.367e4					2.1	NO		bb		0.000
11	FUNCTION3 PFK	33.03	1.596e4					3.4	YES		db		0.000
12	FUNCTION3 PFK	33.01	3.900e4					3.8	YES		bd		0.000
13	FUNCTION3 PFK	36.89	9.500e3					1.1	NO		bb		0.000
14	FUNCTION3 PFK	36.72	4.087e3					0.9	NO		db		0.000
15	FUNCTION3 PFK	36.68	5.700e3					0.9	NO		bd		0.000
16	FUNCTION3 PFK	36.04	8.924e3					1.3	NO		bb		0.000
17	FUNCTION3 PFK	35.96	7.218e3					1.3	NO		db		0.000
18	FUNCTION3 PFK	35.93	9.054e3					1.6	NO		bd		0.000
19	FUNCTION3 PFK	35.73	5.095e3					1.0	NO		db		0.000
20	FUNCTION3 PFK	35.70	5.468e3					1.0	NO		dd		0.000
21	FUNCTION3 PFK	35.62	1.532e4					1.4	NO		bd		0.000
22	FUNCTION3 PFK	35.50	8.556e2					0.4	NO		bb		0.000
23	FUNCTION3 PFK	35.45	3.114e3					0.8	NO		bb		0.000
24	FUNCTION3 PFK	35.39	1.026e4					1.7	NO		bb		0.000
25	FUNCTION3 PFK	35.01	3.671e3					1.1	NO		bb		0.000
26	FUNCTION3 PFK	34.95	1.166e4					1.5	NO		db		0.000
27	FUNCTION3 PFK	34.89	3.308e3					0.7	NO		dd		0.000
28	FUNCTION3 PFK	34.78	1.623e4					1.5	NO		bd		0.000
29	FUNCTION3 PFK	37.97	6.115e3					1.0	NO		bb		0.000
30	FUNCTION3 PFK	37.87	1.022e4					1.3	NO		bb		0.000
31	FUNCTION3 PFK	37.76	6.193e3					1.1	NO		bb		0.000
32	FUNCTION3 PFK	37.42	3.481e3					0.9	NO		bb		0.000
33	FUNCTION3 PFK	37.38	4.374e3					1.0	NO		bb		0.000
34	FUNCTION3 PFK	37.26	3.803e3					0.8	NO		bb		0.000
35	FUNCTION3 PFK	37.20	9.608e3					1.6	NO		bb		0.000
36	FUNCTION3 PFK	37.11	3.551e4					3.3	YES		db		0.000
37	FUNCTION3 PFK	37.02	4.063e4					2.4	NO		bd		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:28:45 Pacific Standard Time

ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	39.01	1.142e6					38.8	YES		dd		
2	FUNCTION4 PFK	38.85	7.584e5					43.7	YES		dd		
3	FUNCTION4 PFK	38.69	1.193e6					48.8	YES		dd		
4	FUNCTION4 PFK	38.26	4.882e6					63.4	YES		dd		
5	FUNCTION4 PFK	38.17	9.269e5					66.8	YES		dd		
6	FUNCTION4 PFK	38.08	1.218e6					69.2	YES		bd		
7	FUNCTION4 PFK	42.44	1.085e4					2.0	NO		bd		
8	FUNCTION4 PFK	42.19	4.988e3					0.9	NO		bb		
9	FUNCTION4 PFK	41.88	6.037e3					1.1	NO		bb		
10	FUNCTION4 PFK	41.74	1.949e4					2.0	NO		bb		
11	FUNCTION4 PFK	41.55	5.247e4					3.6	YES		db		
12	FUNCTION4 PFK	41.47	2.173e4					2.1	NO		bd		
13	FUNCTION4 PFK	41.00	4.181e3					0.9	NO		bb		
14	FUNCTION4 PFK	40.11	5.015e4					3.3	YES		db		
15	FUNCTION4 PFK	39.93	1.912e5					9.3	YES		dd		
16	FUNCTION4 PFK	39.89	7.692e4					9.9	YES		dd		
17	FUNCTION4 PFK	39.73	3.746e5					16.2	YES		dd		
18	FUNCTION4 PFK	39.66	2.294e5					17.4	YES		dd		
19	FUNCTION4 PFK	39.54	3.905e5					21.6	YES		dd		
20	FUNCTION4 PFK	39.44	5.707e5					24.6	YES		dd		
21	FUNCTION4 PFK	39.30	1.056e6					29.4	YES		dd		
22	FUNCTION4 PFK	39.12	5.413e5					35.0	YES		dd		
23	FUNCTION4 PFK	42.85	6.970e3					1.7	NO		bb		
24	FUNCTION4 PFK	42.52	1.046e4					1.9	NO		db		
25	FUNCTION4 PFK	42.47	1.526e4					2.3	NO		dd		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

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ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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	46.16	2.073e3					0.8	NO		bb		
2	FUNCTION5 PFK	45.85	1.508e3					0.8	NO		bb		
3	FUNCTION5 PFK	45.76	5.388e3					1.5	NO		bb		
4	FUNCTION5 PFK	45.41	5.533e2					0.5	NO		bb		
5	FUNCTION5 PFK	44.98	3.282e3					1.4	NO		bb		
6	FUNCTION5 PFK	44.73	5.334e3					1.6	NO		db		
7	FUNCTION5 PFK	44.68	7.316e3					1.9	NO		bd		
8	FUNCTION5 PFK	44.58	6.562e3					1.8	NO		bb		
9	FUNCTION5 PFK	44.37	1.930e3					0.9	NO		bb		
10	FUNCTION5 PFK	44.17	6.441e2					0.6	NO		bb		
11	FUNCTION5 PFK	44.13	2.071e3					1.0	NO		bb		
12	FUNCTION5 PFK	43.32	3.370e3					1.3	NO		bb		
13	FUNCTION5 PFK	46.47	7.160e2					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...	27.68	7.944e1					2.7	NO		bb		0.000
2	FUNCTION1 HXCD...	26.86	7.321e1					3.3	YES		bb		0.000
3	FUNCTION1 HXCD...	26.44	1.097e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	23.51	1.043e2					2.5	NO		bb		0.000
5	FUNCTION1 HXCD...	22.28	1.509e2					3.3	YES		bb		0.000
6	FUNCTION1 HXCD...	21.39	1.102e2					2.6	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...	27.91	7.135e1					2.3	NO		bb		0.000
2	FUNCTION1 HPCD...	26.44	1.059e2					1.4	NO		bb		0.000
3	FUNCTION1 HPCD...	25.10	7.289e1					1.9	NO		bb		0.000
4	FUNCTION1 HPCD...	24.23	7.876e1					1.5	NO		bb		0.000
5	FUNCTION1 HPCD...	23.87	1.071e2					2.4	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

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ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, 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...	29.98	7.807e1					1.6	NO		bb		0.000
2	FUNCTION2 HPCD...	32.80	7.942e1					1.6	NO		bb		0.000
3	FUNCTION2 HPCD...	32.06	8.693e1					2.0	NO		bb		0.000
4	FUNCTION2 HPCD...	31.85	7.358e1					2.1	NO		bb		0.000
5	FUNCTION2 HPCD...	31.78	1.298e2					2.8	NO		db		0.000
6	FUNCTION2 HPCD...	31.65	7.212e1					1.7	NO		bd		0.000
7	FUNCTION2 HPCD...	31.07	9.637e1					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	35.67	7.720e1					1.5	NO		bb		0.000
2	FUNCTION3 OCDPE	35.36	7.136e1					2.0	NO		bb		0.000
3	FUNCTION3 OCDPE	35.10	1.119e2					2.8	NO		db		0.000
4	FUNCTION3 OCDPE	34.98	7.430e1					1.6	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	42.14	8.255e1					2.8	NO		bb		0.000

ETHERS6

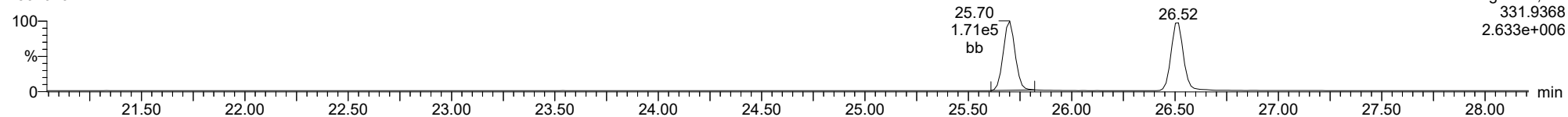
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1													

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ID: BLA0079-BLK1, **Name:** 23020704, **Date:** 07-Feb-2023, **Time:** 11:09:32, **Conditions:** AUTOSPEC01, **User:** pk

13C-1234-TCDD

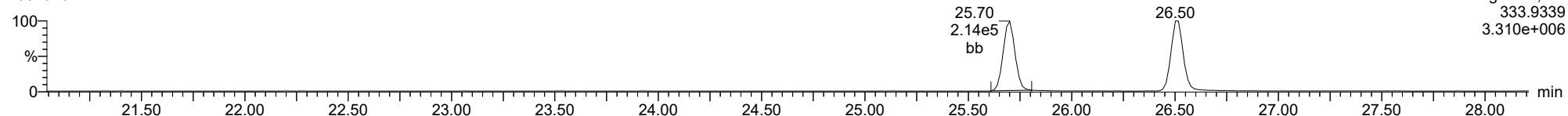
23020704



F1:Voltage SIR,El+
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2.633e+006

13C-1234-TCDD

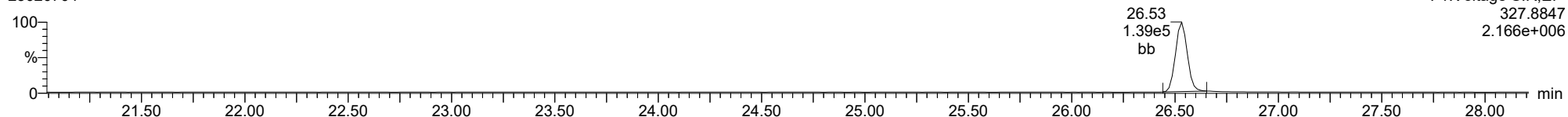
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F1:Voltage SIR,El+
333.9339
3.310e+006

37CL-2378-TCDD

23020704

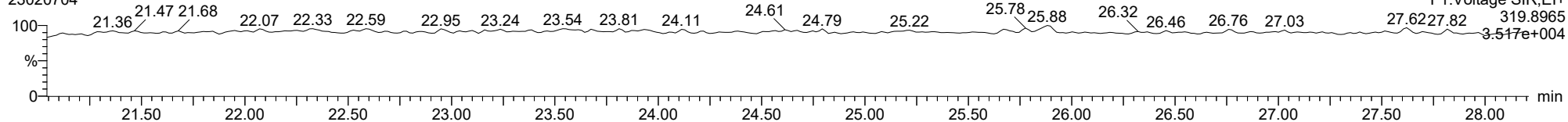


F1:Voltage SIR,El+
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ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

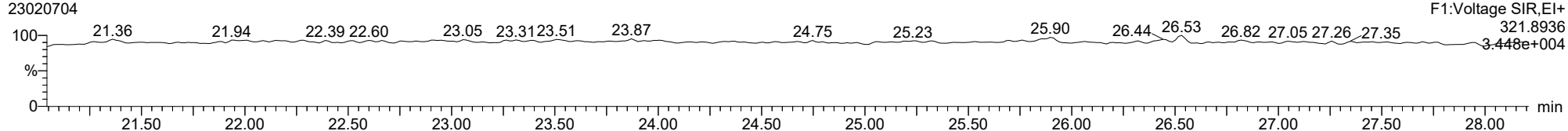
2378-TCDD

23020704



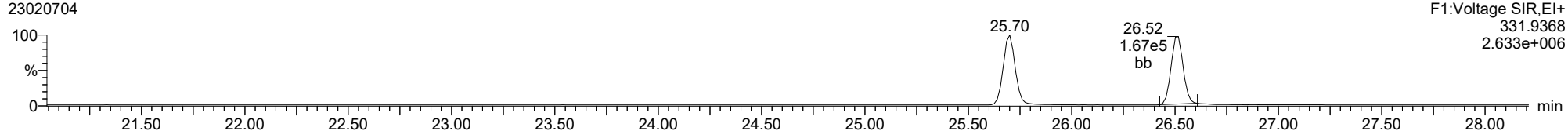
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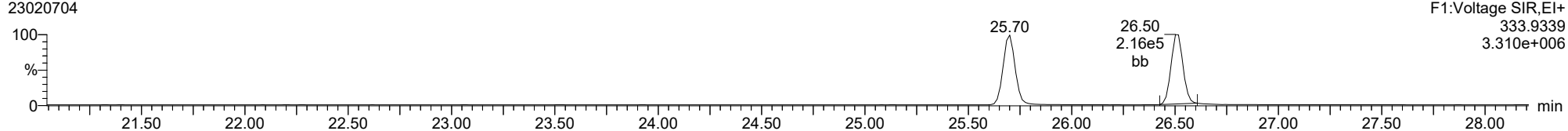
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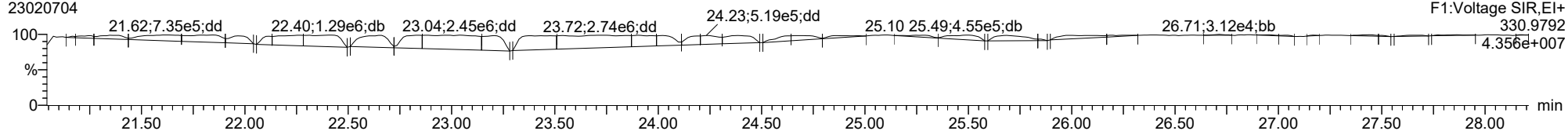
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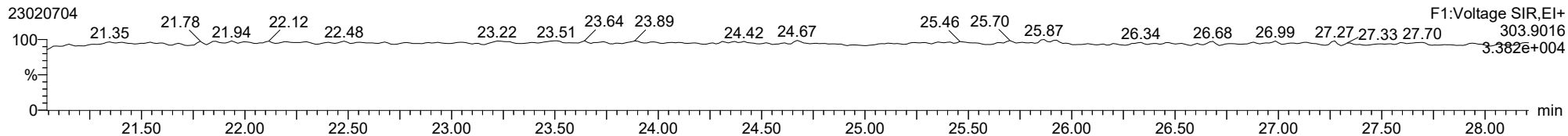
FUNCTION1 PFK

23020704

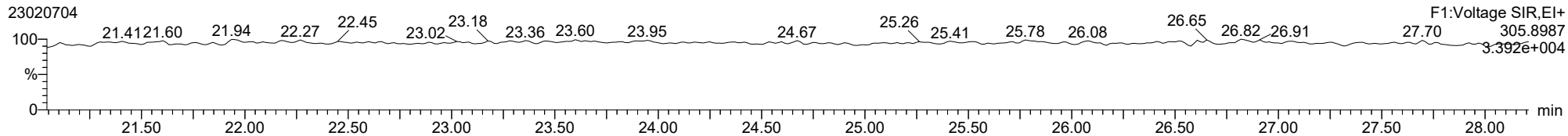


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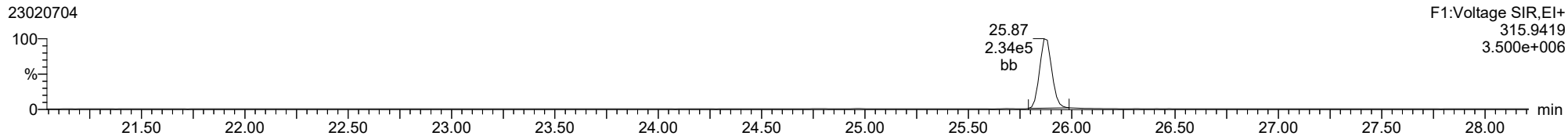
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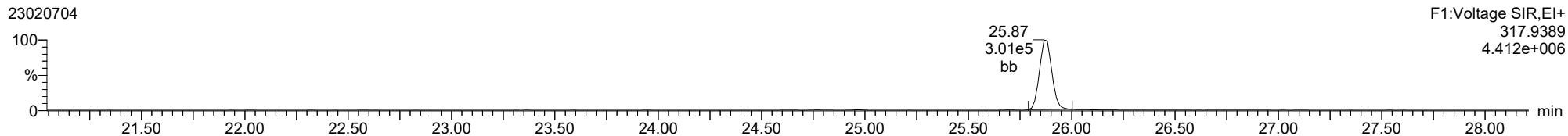
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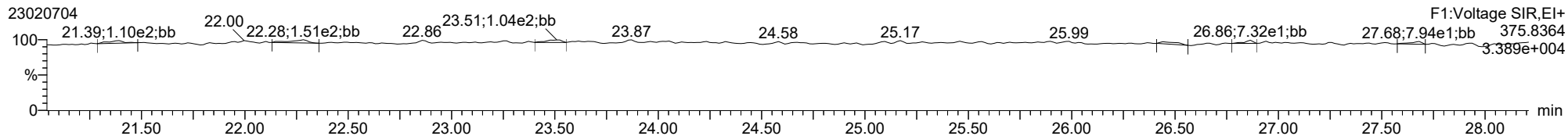
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13C-2378-TCDF



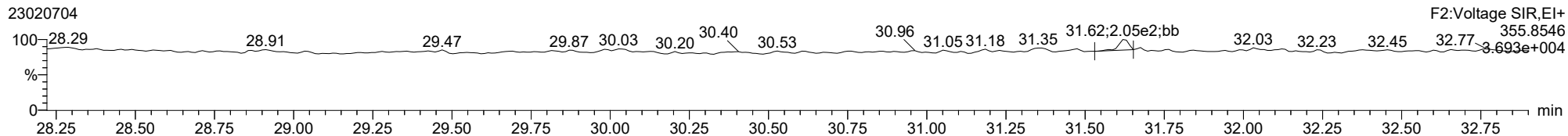
FUNCTION1 HXCDPE



ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

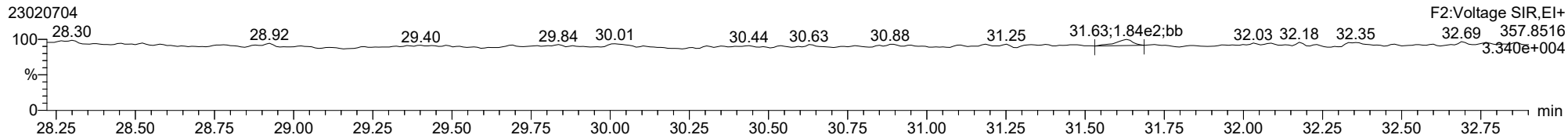
12378-PeCDD

23020704



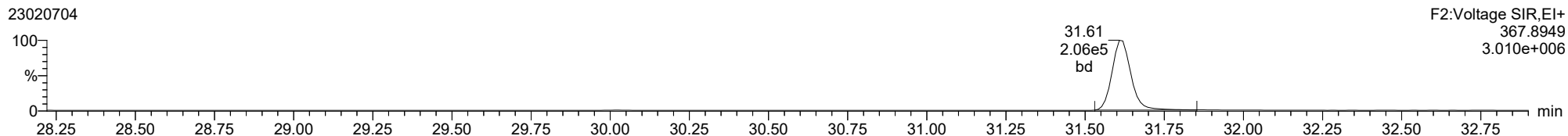
12378-PeCDD

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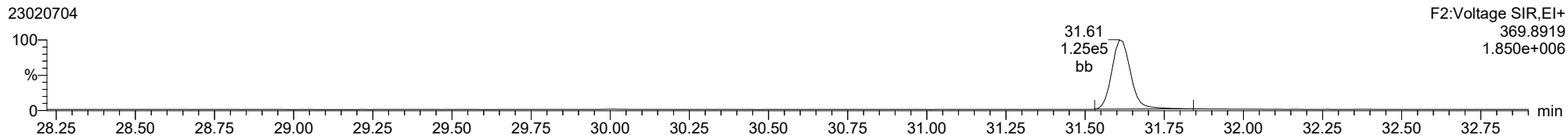
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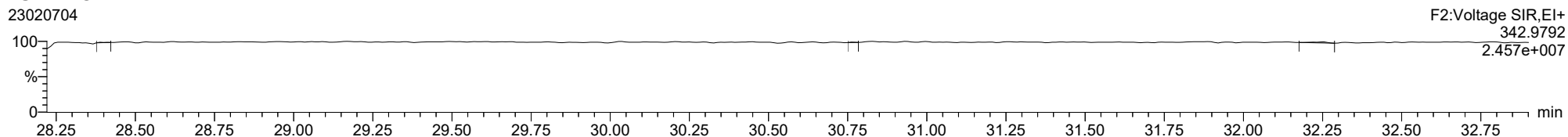
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FUNCTION2 PFK

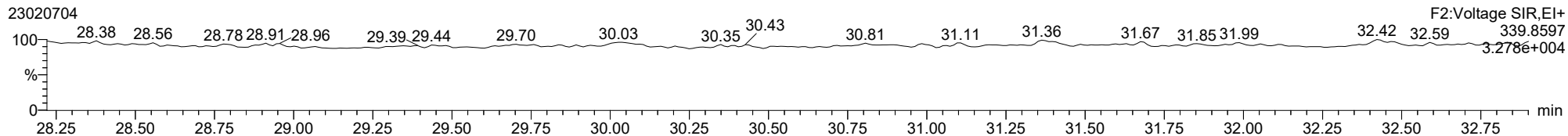
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ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

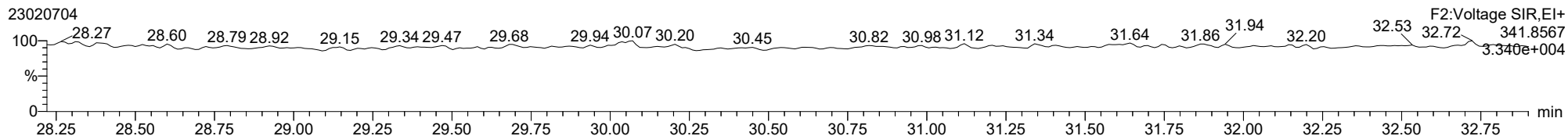
12378-PeCDF

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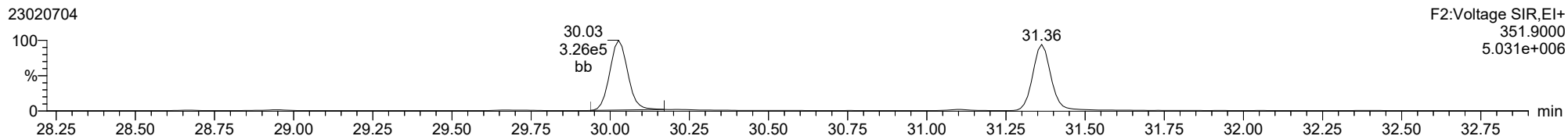
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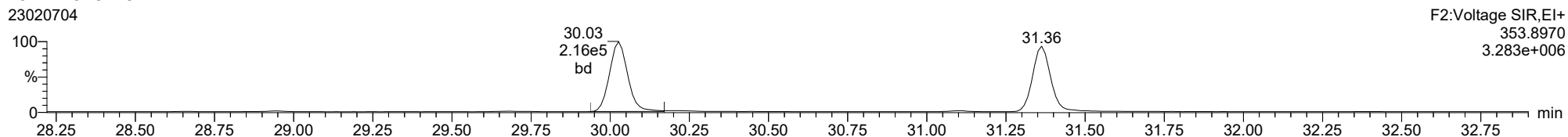
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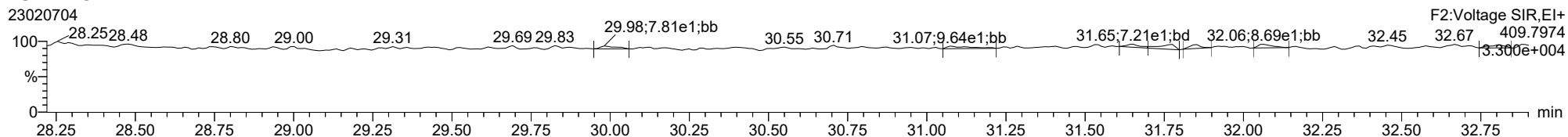
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FUNCTION2 HPCDPE

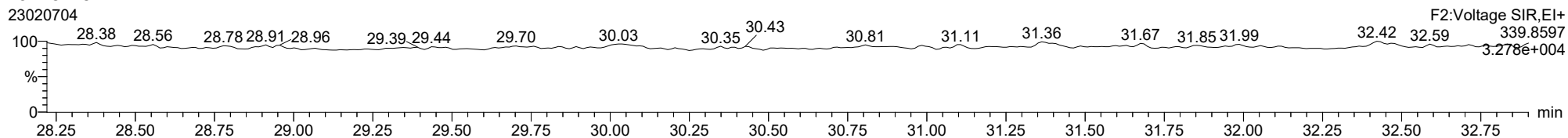
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ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

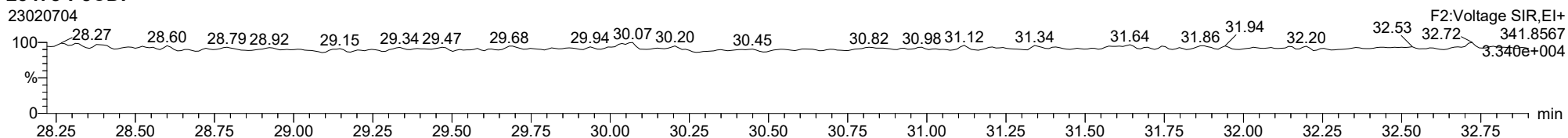
23478-PeCDF

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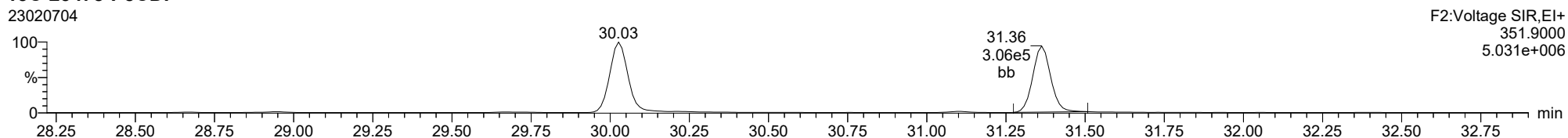
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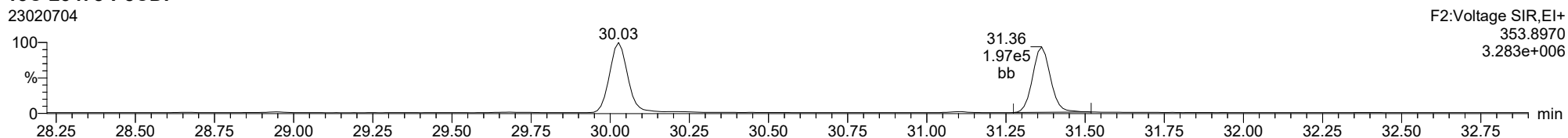
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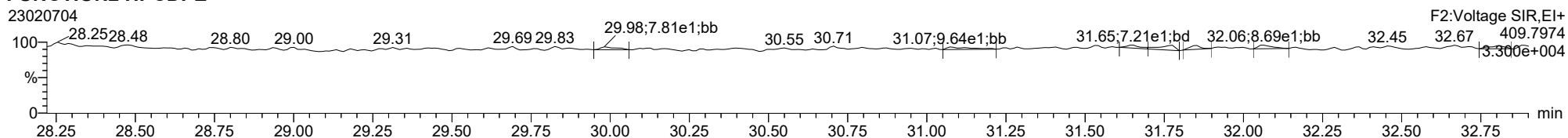
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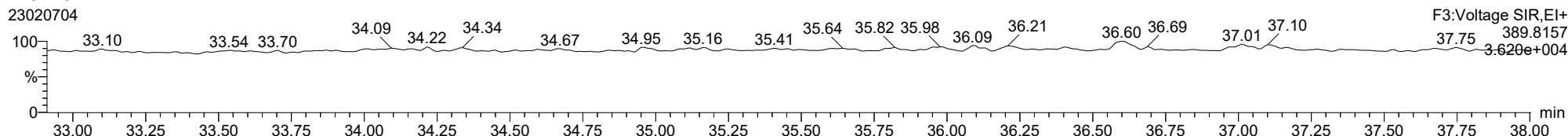
FUNCTION2 HPCDPE

23020704

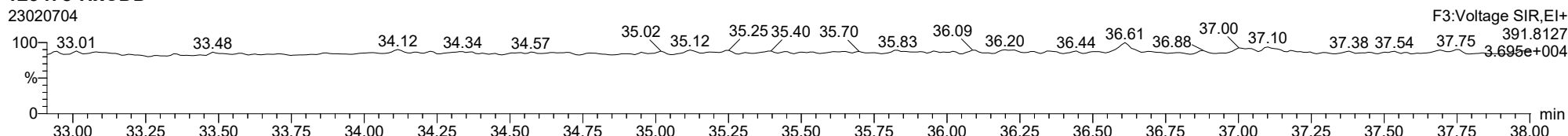


ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

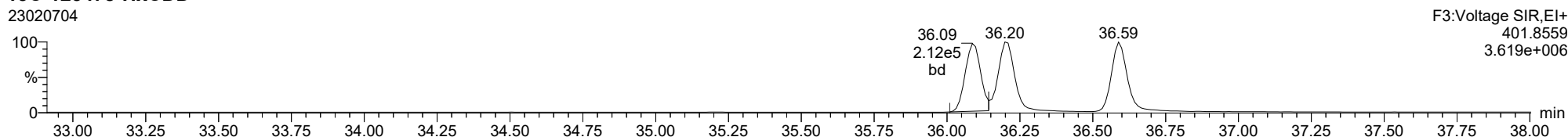
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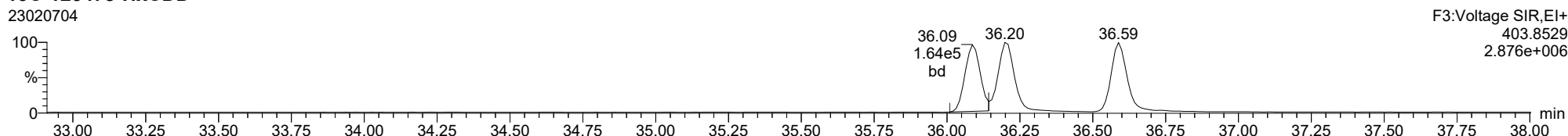
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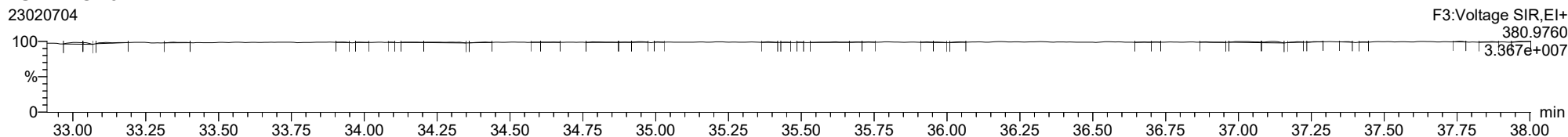
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13C-123478-HxCDD



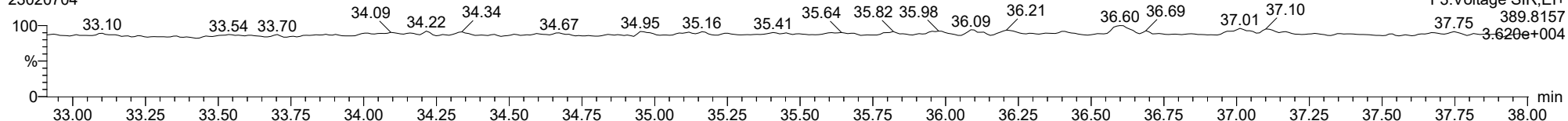
FUNCTION3 PFK



ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

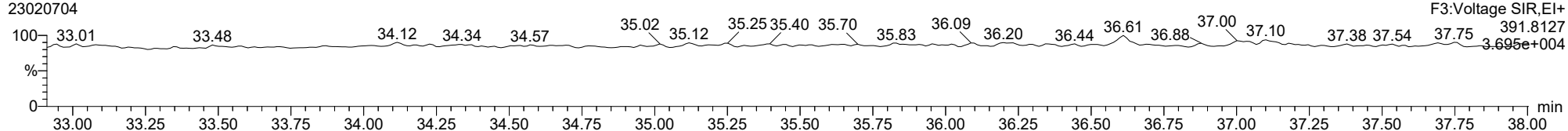
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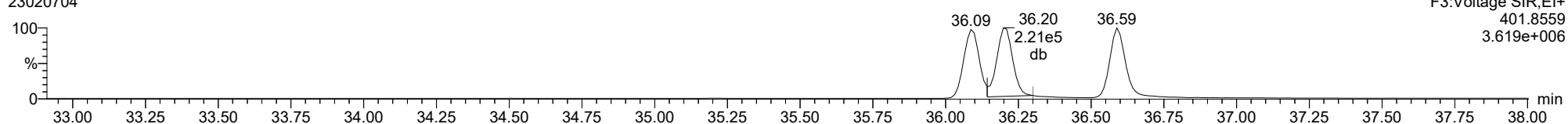
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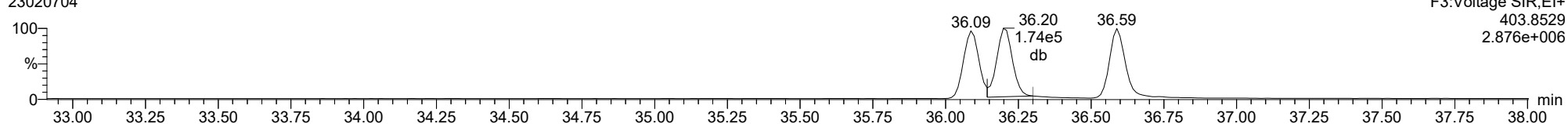
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23020704



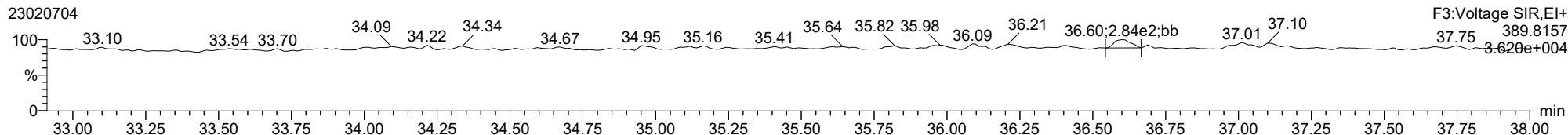
13C-123678-HxCDD

23020704

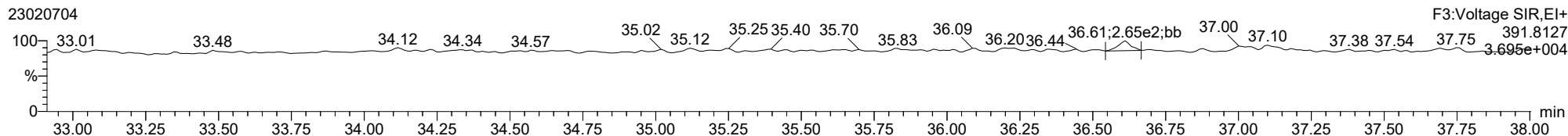


ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

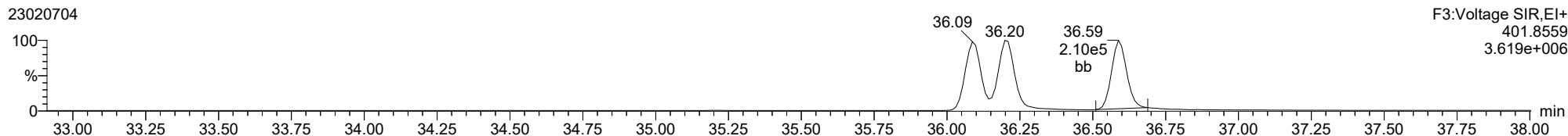
123789-HxCDD



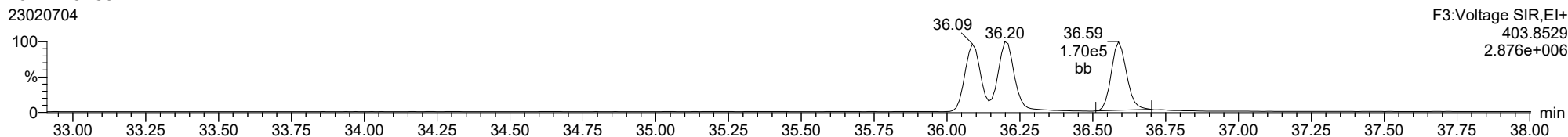
123789-HxCDD



13C-123789-HxCDD

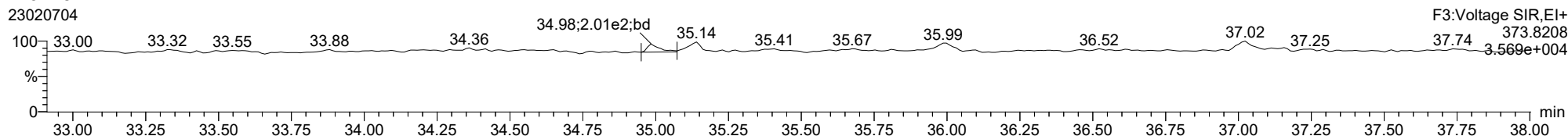


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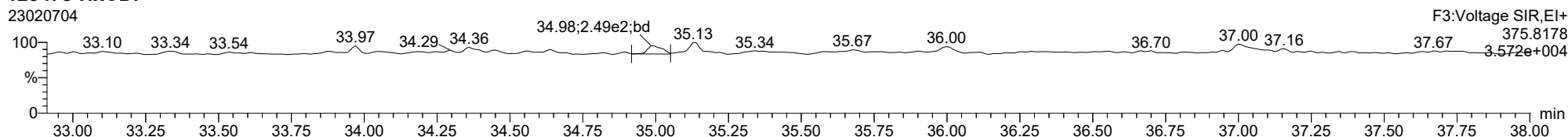


ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

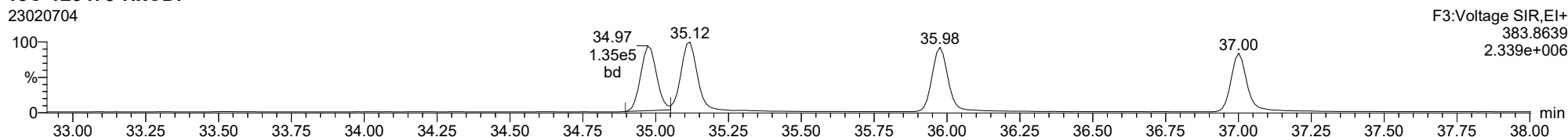
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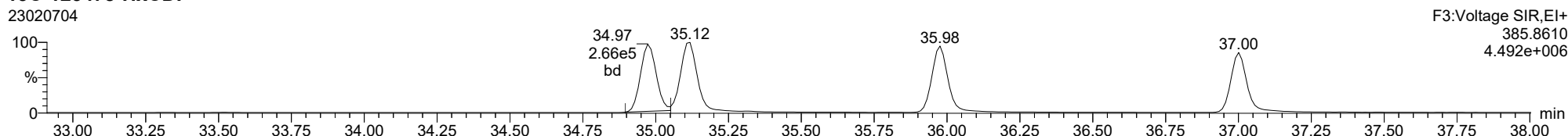
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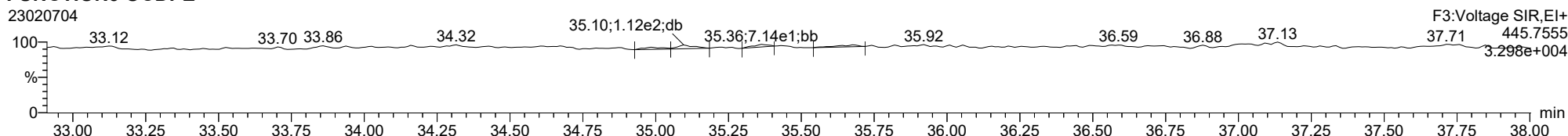
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13C-123478-HxCDF

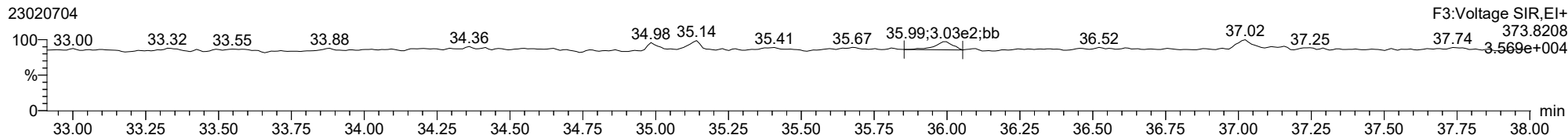


FUNCTION3 OCDPE

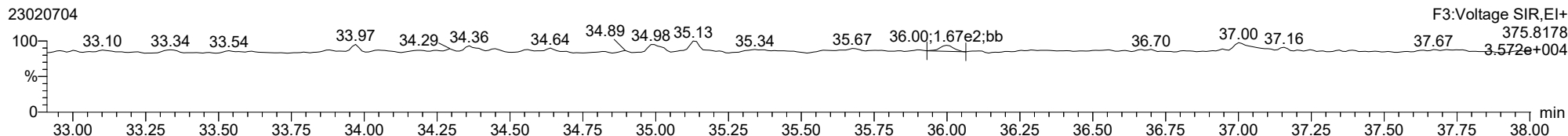


ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

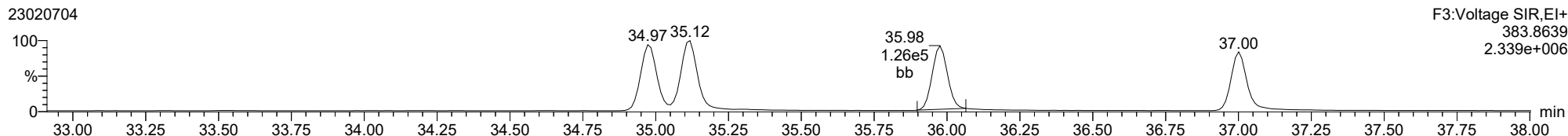
234678-HxCDF



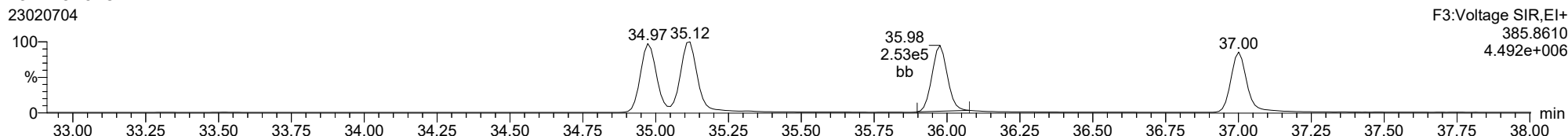
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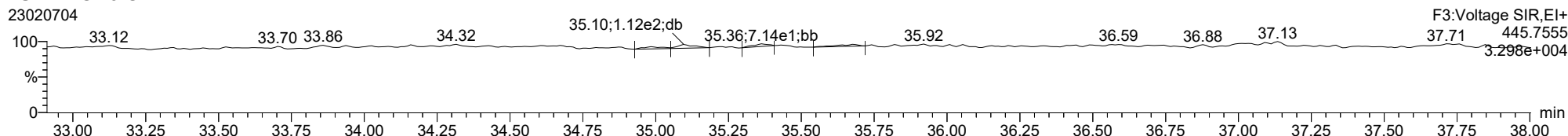
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13C-234678-HxCDF

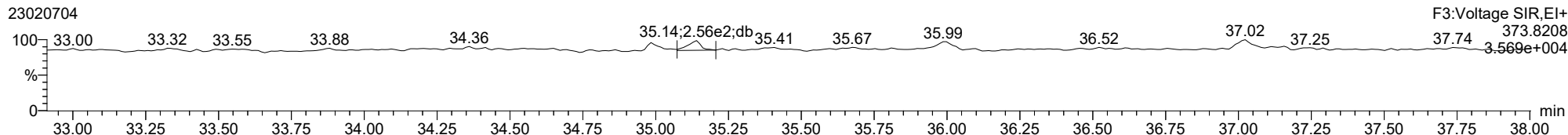


FUNCTION3 OCDPE

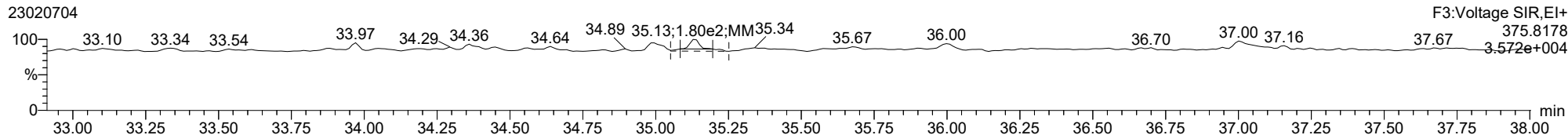


ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

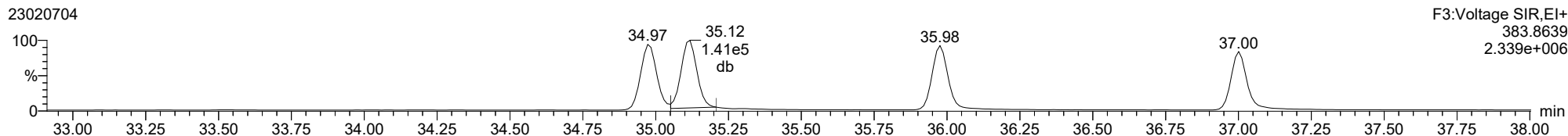
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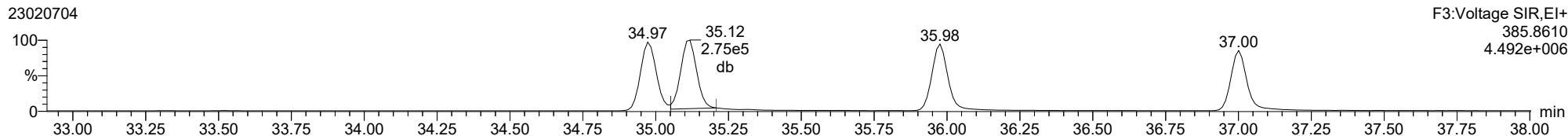
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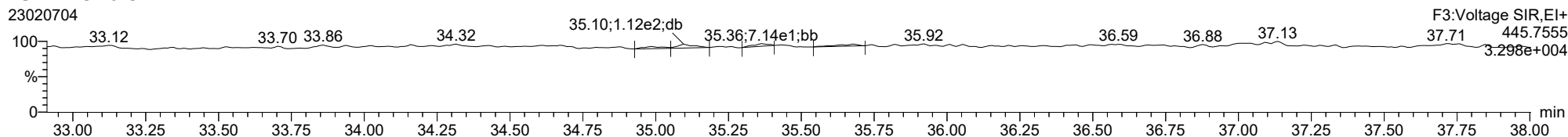
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13C-123678-HxCDF

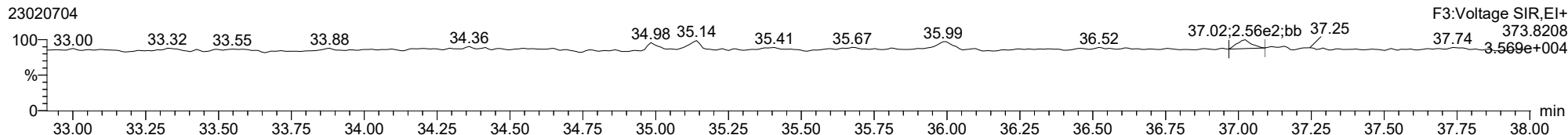


FUNCTION3 OCDPE

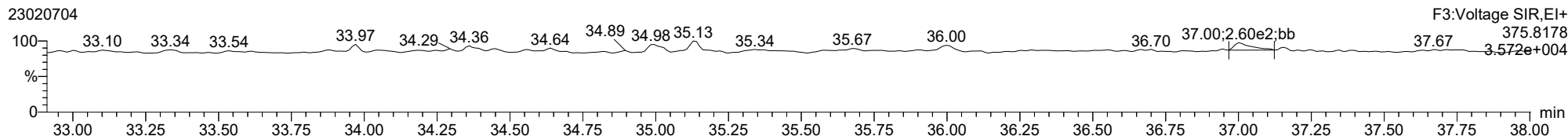


ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

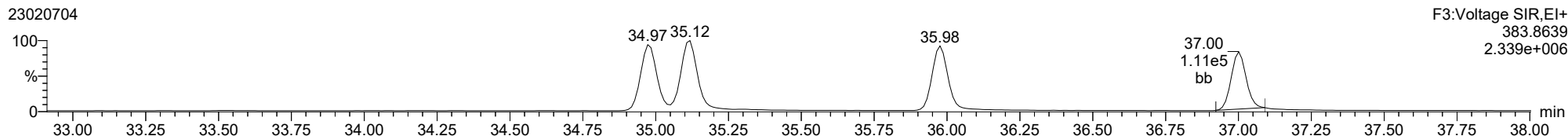
123789-HxCDF



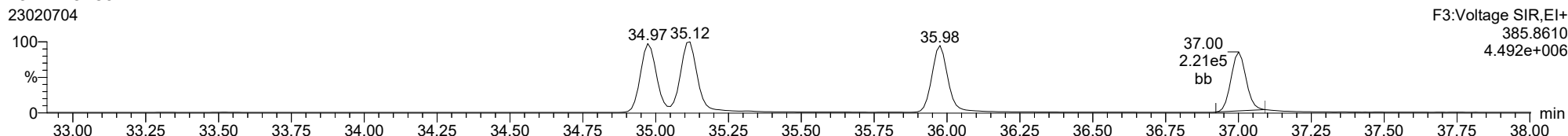
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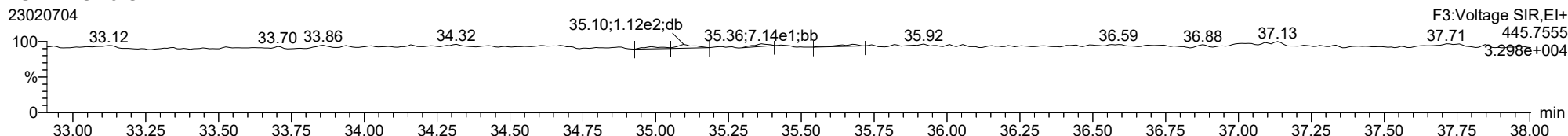
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13C-123789-HxCDF



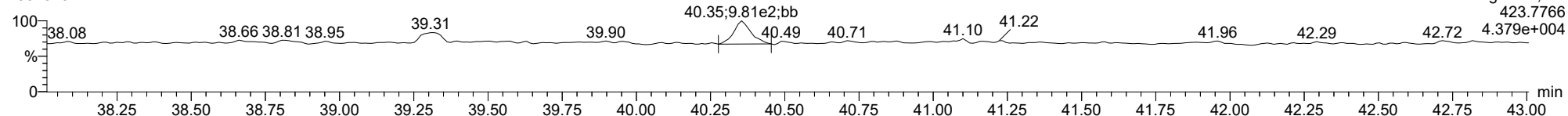
FUNCTION3 OCDPE



ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

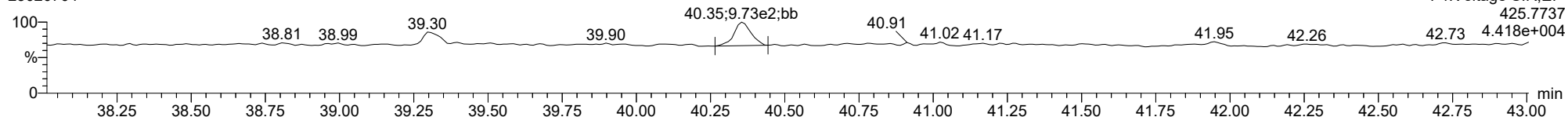
1234678-HpCDD

23020704



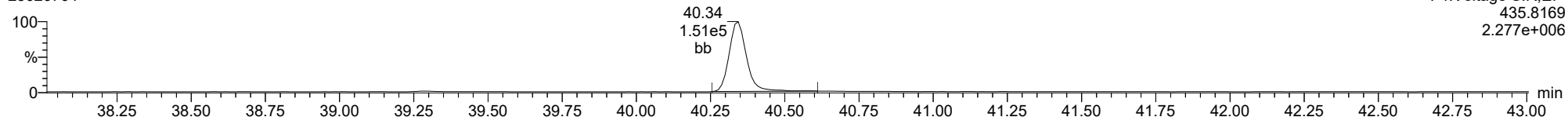
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23020704



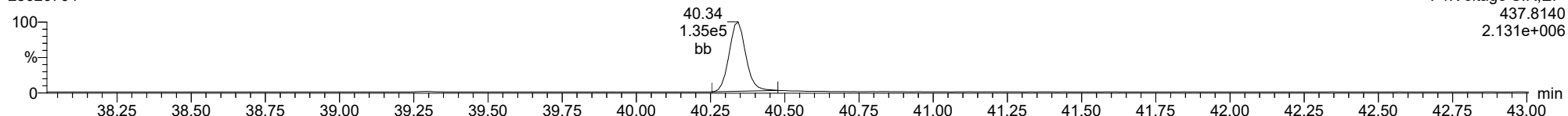
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23020704



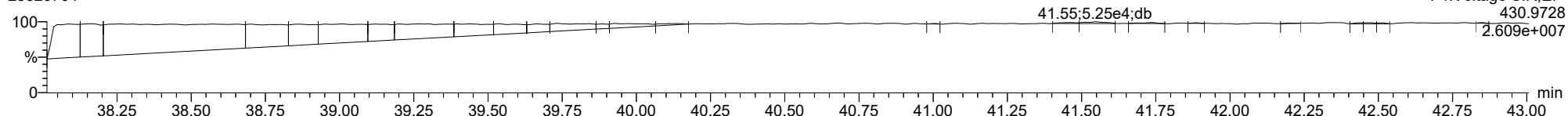
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23020704



FUNCTION4 PFK

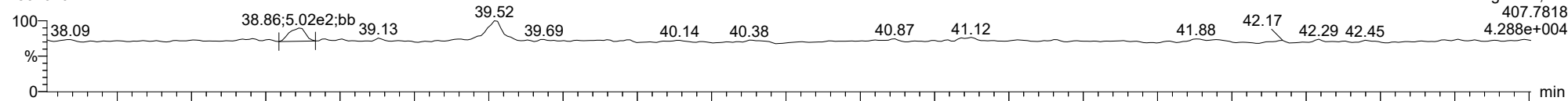
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ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

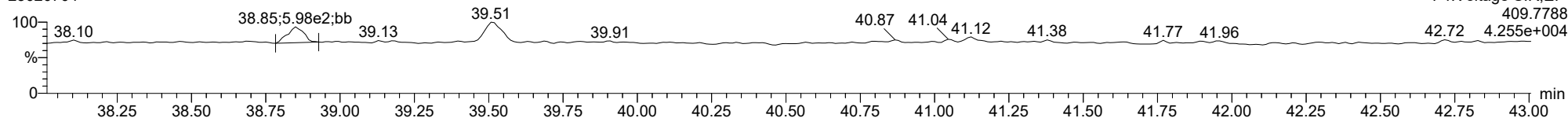
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23020704



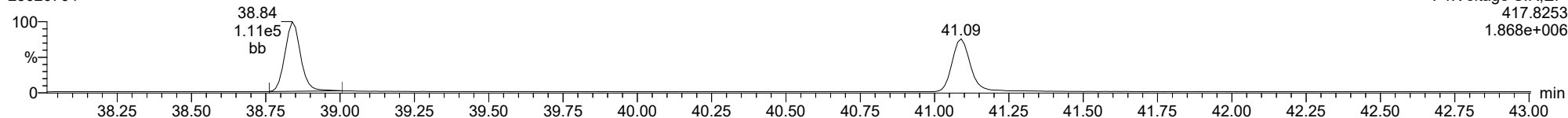
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23020704



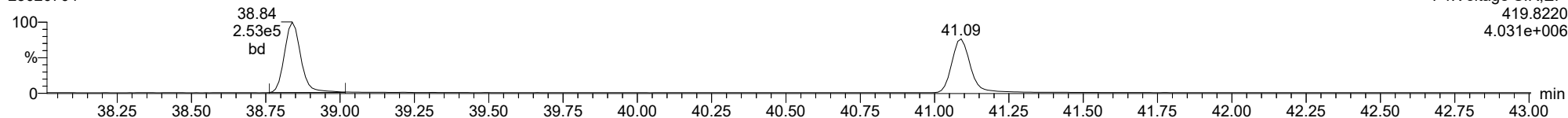
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23020704



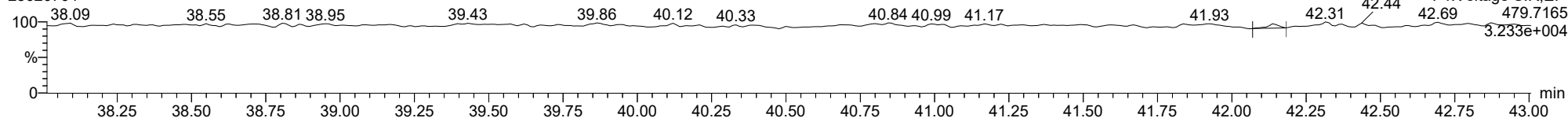
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23020704



FUNCTION4 NCDPE

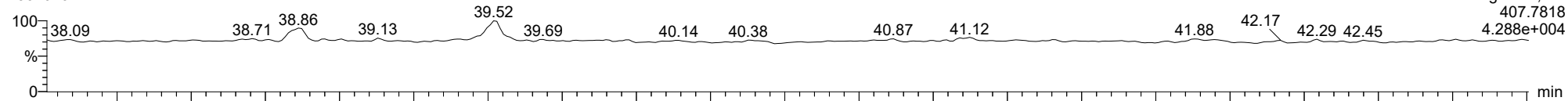
23020704



ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

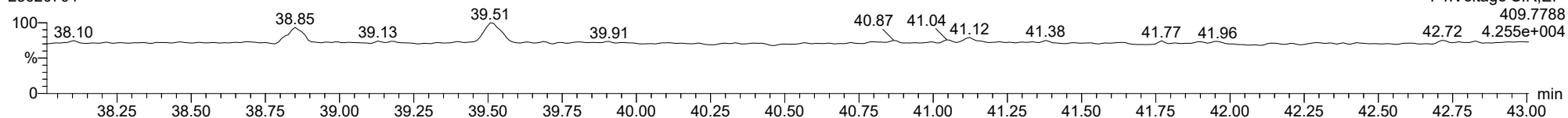
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23020704



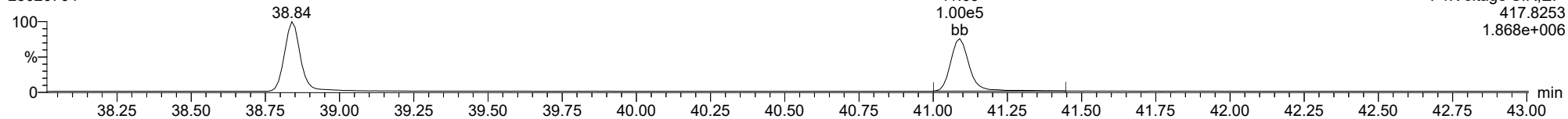
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23020704



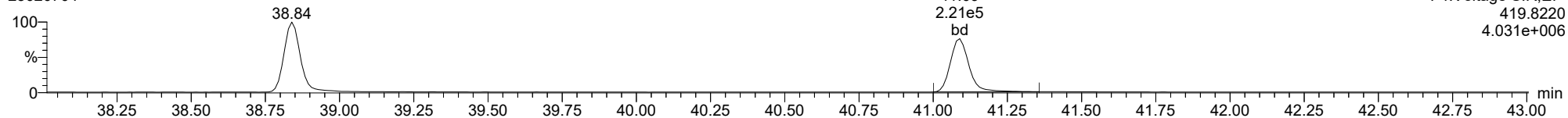
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23020704



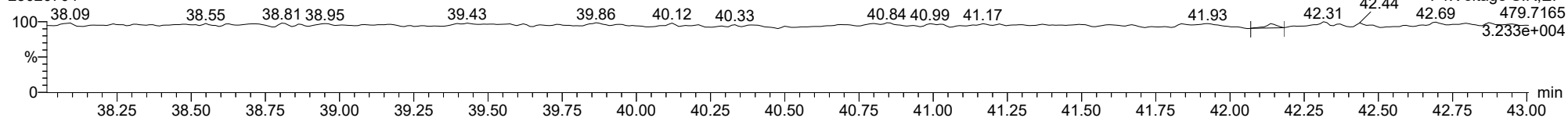
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23020704



FUNCTION4 NCDPE

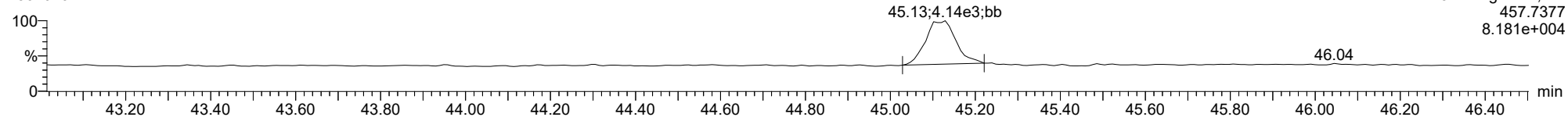
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ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

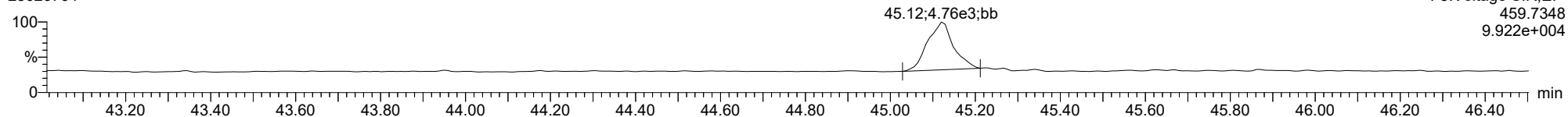
OCDD

23020704



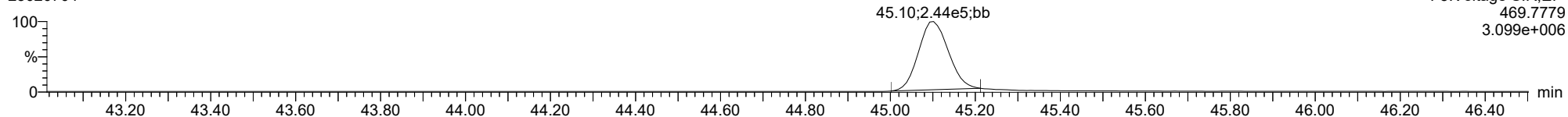
OCDD

23020704



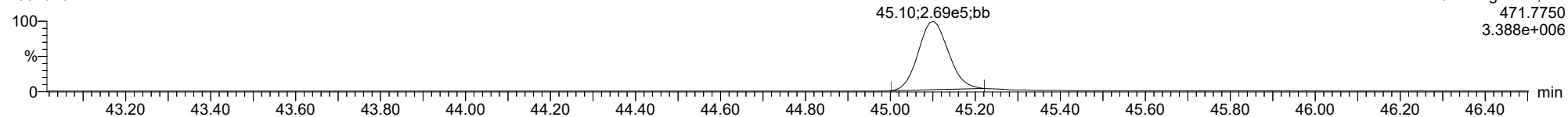
13C-OCDD

23020704



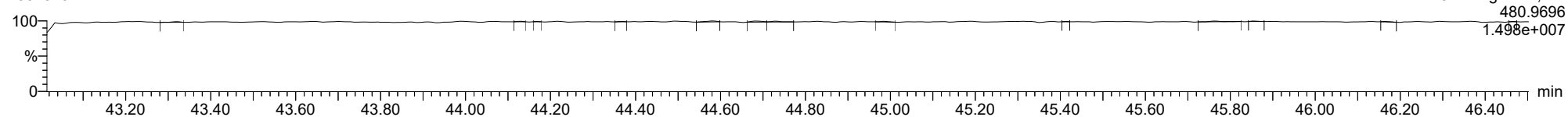
13C-OCDD

23020704



FUNCTION5 PFK

23020704

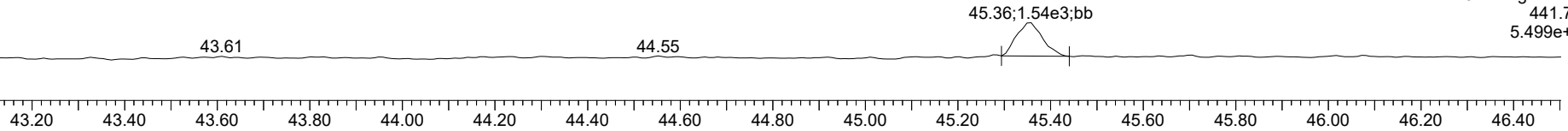


ID: BLA0079-BLK1, Name: 23020704, Date: 07-Feb-2023, Time: 11:09:32, Conditions: AUTOSPEC01, User: pk

OCDF

23020704

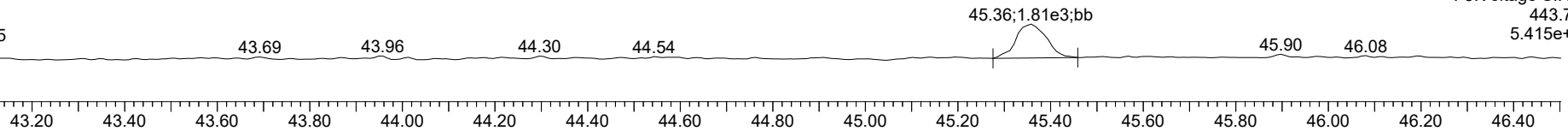
100
%
0



OCDF

23020704

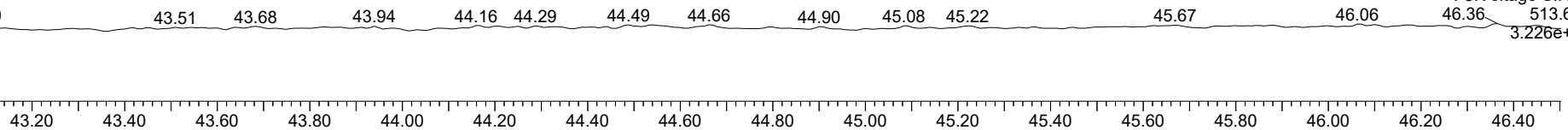
100
%
0



FUNCTION5 DCDPE

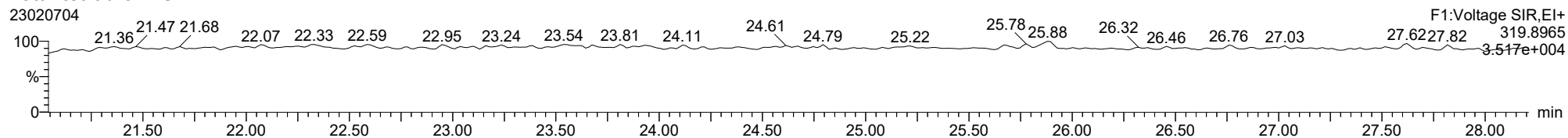
23020704

100
%
0

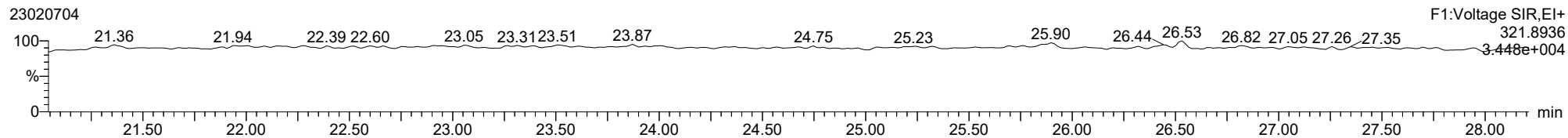


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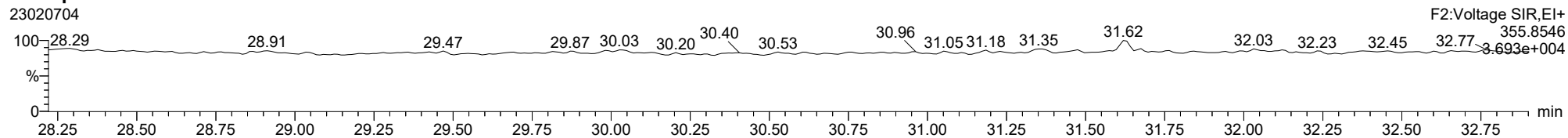
Total-tetradiioxins



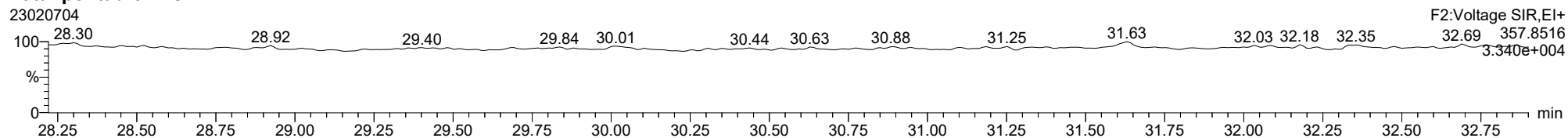
Total-tetradiioxins



Total-pentadiioxins

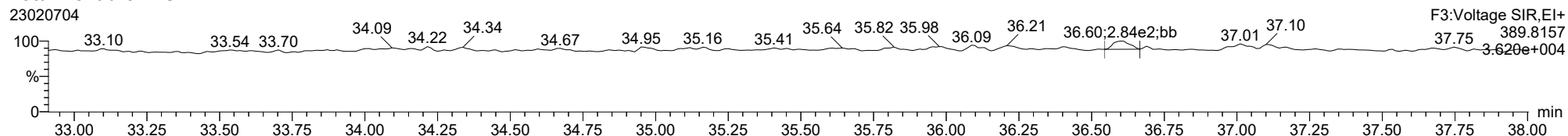


Total-pentadiioxins

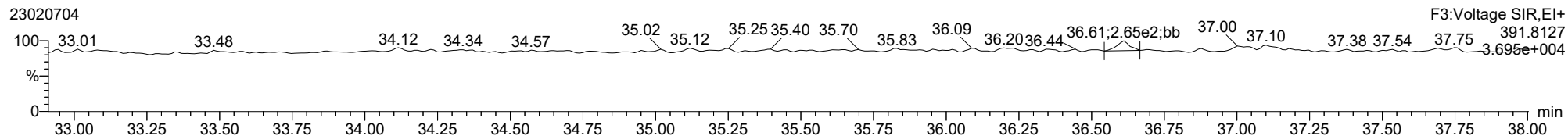


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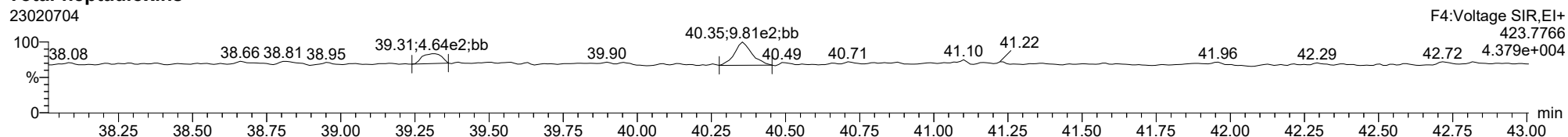
Total-hexadioxins



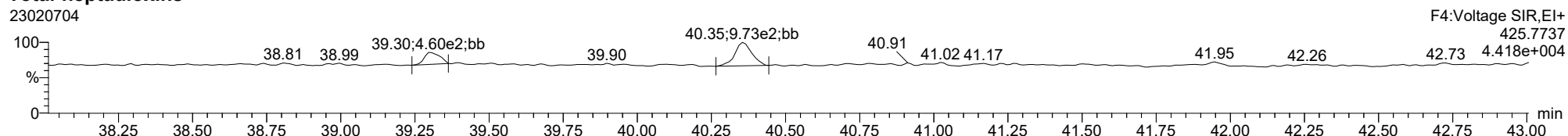
Total-hexadioxins



Total-heptadioxins

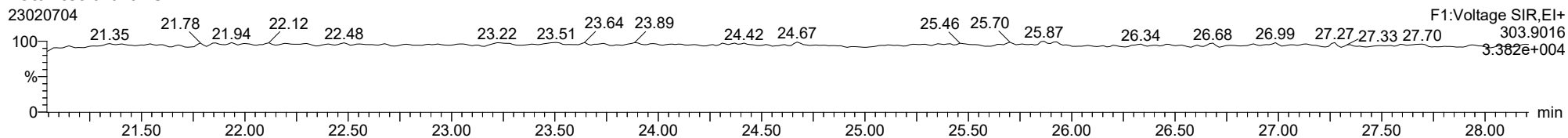


Total-heptadioxins

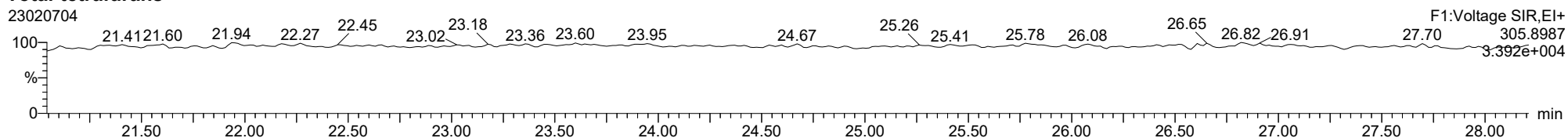


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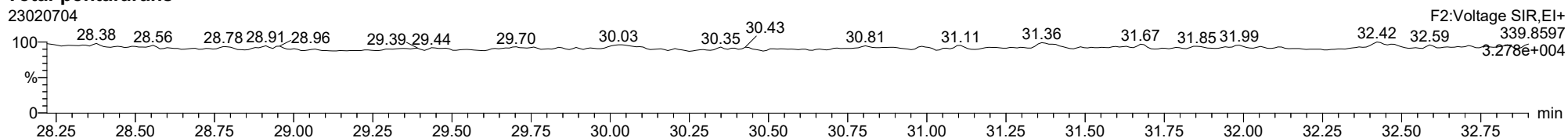
Total-tetrafurans



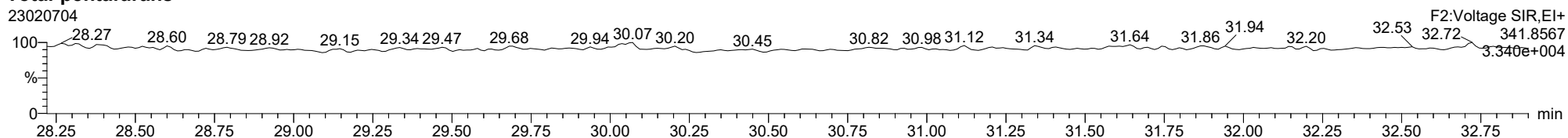
Total-tetrafurans



Total-pentafurans

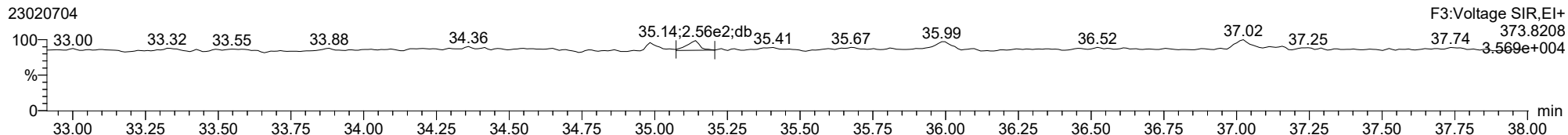


Total-pentafurans

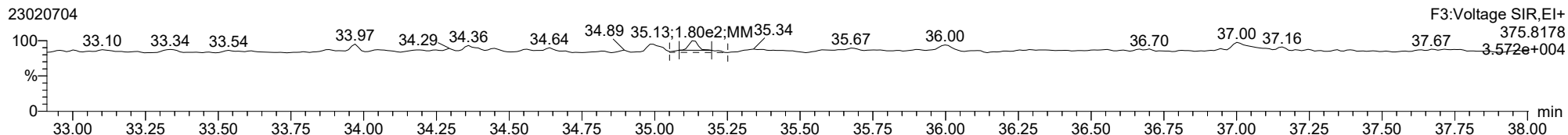


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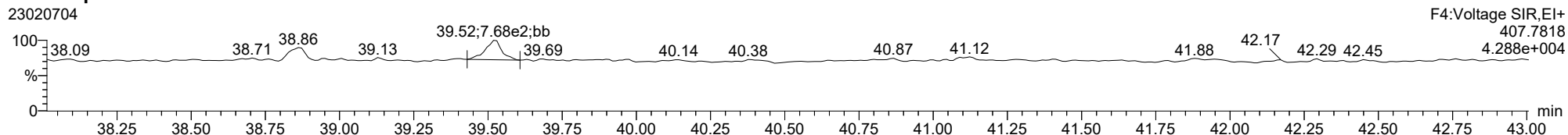
Total-hexafurans



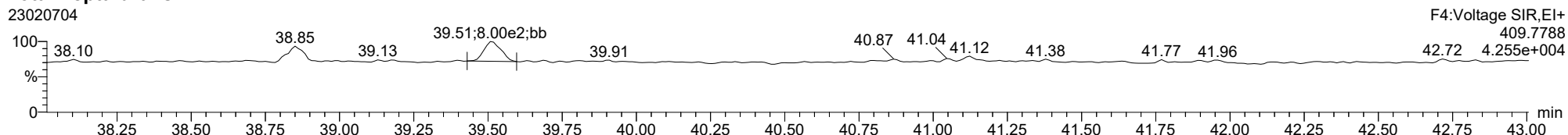
Total-hexafurans



Total-heptafurans



Total-heptafurans





LCS RECOVERY
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Analyzed: 02/07/23 11:58

Batch: BLA0079

Laboratory ID: BLA0079-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	19.5		97.5	75 - 158
2,3,7,8-TCDD	20.0	18.0		90.0	67 - 158
1,2,3,7,8-PeCDF	100	91.6		91.6	80 - 134
2,3,4,7,8-PeCDF	100	95.6		95.6	68 - 160
1,2,3,7,8-PeCDD	100	95.0	B	95.0	70 - 142
1,2,3,4,7,8-HxCDF	100	91.0	B	91.0	72 - 134
1,2,3,6,7,8-HxCDF	100	93.9	B	93.9	84 - 130
2,3,4,6,7,8-HxCDF	100	93.7	B	93.7	70 - 156
1,2,3,7,8,9-HxCDF	100	92.7	B	92.7	78 - 130
1,2,3,4,7,8-HxCDD	100	96.0		96.0	70 - 164
1,2,3,6,7,8-HxCDD	100	94.0		94.0	76 - 134
1,2,3,7,8,9-HxCDD	100	102	B	102	64 - 162
1,2,3,4,6,7,8-HpCDF	100	96.6	B	96.6	82 - 122
1,2,3,4,7,8,9-HpCDF	100	91.1		91.1	78 - 138
1,2,3,4,6,7,8-HpCDD	100	90.6	B	90.6	70 - 140
OCDF	200	170	B	84.8	63 - 170
OCDD	200	186	B	92.9	78 - 144

* Indicates values outside of QC limits

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: BLA0079-BS1, **Name:** 23020705, **Date:** 07-Feb-2023, **Time:** 11:58:38, **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	2.026e4	2.707e4	0.876	0.749	0.770	752	874	3.10e5	4.01e5	412.3	459.0	NO	bb	bb	9.746
12378-PeCDF	30.037	1.001	1.270e5	8.657e4	0.845	1.468	1.550	1105	2040	1.92e6	1.30e6	1740.1	635.4	NO	bb	bd	45.819
23478-PeCDF	31.374	1.001	1.337e5	8.848e4	0.911	1.511	1.550	1105	2040	2.02e6	1.35e6	1823.8	660.5	NO	bb	bd	47.822
123478-HxCDF	34.984	1.001	1.218e5	9.739e4	1.182	1.251	1.240	1334	1796	1.89e6	1.52e6	1419.2	847.3	NO	dd	bd	45.484
234678-HxCDF	35.976	1.000	1.251e5	9.889e4	1.229	1.265	1.240	1334	1796	1.88e6	1.52e6	1406.4	845.2	NO	dd	bd	46.826
123678-HxCDF	35.118	1.000	1.396e5	1.103e5	1.248	1.266	1.240	1334	1796	1.99e6	1.60e6	1491.8	892.5	NO	dd	dd	46.968
123789-HxCDF	37.012	1.001	1.063e5	8.480e4	1.187	1.253	1.240	1334	1796	1.55e6	1.24e6	1165.3	691.9	NO	bd	bd	46.348
1234678-HpCDF	38.839	1.000	1.118e5	1.073e5	1.204	1.043	1.050	1514	1379	1.78e6	1.70e6	1172.5	1229.3	NO	bb	bd	48.279
1234789-HpCDF	41.090	1.000	9.117e4	9.161e4	1.165	0.995	1.050	1514	1379	1.26e6	1.27e6	832.8	918.2	NO	bd	bd	45.575
OCDF	45.349	1.006	1.303e5	1.483e5	1.186	0.878	0.890	1711	1717	1.47e6	1.71e6	859.3	993.9	NO	bd	bd	84.812
2378-TCDD	26.517	1.001	1.953e4	2.508e4	1.236	0.779	0.770	941	744	2.97e5	3.86e5	315.9	518.5	NO	bb	bd	9.004
12378-PeCDD	31.619	1.000	1.048e5	6.558e4	1.087	1.598	1.550	889	846	1.58e6	1.00e6	1780.3	1183.6	NO	bb	bb	47.494
123478-HxCDD	36.098	1.001	9.715e4	8.140e4	0.987	1.194	1.240	1253	1378	1.57e6	1.32e6	1251.1	960.3	NO	bd	bd	48.011
123678-HxCDD	36.210	1.001	1.041e5	8.566e4	1.021	1.215	1.240	1253	1378	1.65e6	1.39e6	1321.1	1007.2	NO	db	db	46.986
123789-HxCDD	36.589	1.011	1.063e5	8.766e4	0.985	1.212	1.240	1253	1378	1.65e6	1.37e6	1315.3	997.2	NO	bb	bb	50.955
1234678-HpCDD	40.343	1.000	8.947e4	8.471e4	1.253	1.056	1.050	1117	965	1.35e6	1.27e6	1209.0	1316.3	NO	bd	bd	45.284
OCDD	45.111	1.000	1.356e5	1.482e5	1.103	0.915	0.890	1102	949	1.56e6	1.73e6	1411.5	1817.4	NO	bd	bb	92.932
13C-2378-TCDF	25.851	1.006	2.446e5	3.098e5	1.768	0.790	0.770	1688	1573	3.63e6	4.66e6	2149.4	2961.4	NO	bb	bb	72.767
13C-12378-PeCDF	30.015	1.169	3.347e5	2.173e5	1.527	1.541	1.550	2642	1551	4.96e6	3.18e6	1877.3	2053.6	NO	bd	bd	83.889
13C-23478-PeCDF	31.352	1.221	3.074e5	2.025e5	1.466	1.518	1.550	2642	1551	4.71e6	3.14e6	1784.7	2024.3	NO	bb	bb	80.708
13C-123478-HxCDF	34.962	0.956	1.370e5	2.708e5	1.054	0.506	0.510	1747	1785	2.19e6	4.34e6	1251.3	2428.7	NO	bd	bd	77.595
13C-123678-HxCDF	35.107	0.960	1.413e5	2.851e5	1.080	0.495	0.510	1747	1785	2.21e6	4.41e6	1265.9	2469.3	NO	db	db	79.145
13C-234678-HxCDF	35.965	0.983	1.317e5	2.575e5	1.014	0.512	0.510	1747	1785	2.14e6	4.15e6	1228.1	2322.2	NO	bb	bb	76.924
13C-123789-HxCDF	36.989	1.011	1.161e5	2.314e5	0.928	0.502	0.510	1747	1785	1.92e6	3.78e6	1099.9	2115.0	NO	bb	bb	75.062
13C-1234678-HpCDF	38.828	1.062	1.173e5	2.596e5	1.036	0.452	0.440	1380	1819	1.93e6	4.25e6	1395.7	2338.0	NO	bb	bb	72.932
13C-1234789-HpCDF	41.078	1.123	1.059e5	2.382e5	0.905	0.445	0.440	1380	1819	1.49e6	3.29e6	1082.1	1809.1	NO	bb	bb	76.248
13C-1234-TCDD	25.685	0.000	1.902e5	2.406e5	1.000	0.790	0.770	1827	969	2.93e6	3.72e6	1603.9	3844.4	NO	bb	bb	100.000
13C-2378-TCDD	26.486	1.031	1.774e5	2.233e5	1.103	0.794	0.770	1827	969	2.67e6	3.35e6	1464.4	3463.2	NO	bb	bb	84.327
13C-12378-PeCDD	31.608	1.231	2.036e5	1.266e5	0.914	1.609	1.550	1006	1036	2.87e6	1.80e6	2848.6	1736.1	NO	bd	bd	83.829
13C-123478-HxCDD	36.076	0.986	2.116e5	1.652e5	0.933	1.281	1.240	1499	1056	3.57e6	2.79e6	2378.7	2638.8	NO	bd	bd	80.974
13C-123678-HxCDD	36.187	0.989	2.214e5	1.743e5	0.965	1.270	1.240	1499	1056	3.53e6	2.77e6	2356.0	2626.2	NO	db	db	82.237
13C-1234678-HpCDD	40.332	1.103	1.620e5	1.451e5	0.782	1.116	1.050	1345	1327	2.39e6	2.22e6	1774.1	1670.2	NO	bb	bb	78.732
13C-OCDD	45.093	1.233	2.660e5	2.879e5	0.788	0.924	0.890	2831	1399	3.25e6	3.47e6	1146.3	2476.9	NO	bb	bb	140.870
13C-123789-HxCDD	36.577	0.000	2.784e5	2.204e5	1.000	1.263	1.240	1499	1056	4.44e6	3.56e6	2965.3	3376.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	1.554e5		1.233			1033		2.36e6		2284.3			bb		29.242

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, 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	752	874								
1289-TCDF					0.858		0.770	752	874								
13468-PECDF					1.013		1.550	687	781								
12389-PECDF	32.410	1.080	1.061e3	7.981e2	0.844	1.330	1.550	1105	2040	1.65e4	1.26e4	14.9	6.2	NO	bb	bb	0.399
123468-HXCDF					1.197		1.240	1334	1796								
1368-TCDD					1.084		0.770	941	744								
1289-TCDD					0.975		0.770	941	744								
12479-PECDD					1.837		1.550	889	846								
12389-PECDD	31.942	1.011	9.555e1	7.549e1	1.252	1.266	1.550	889	846	2.43e3	2.44e3	2.7	2.9	YES	bb	bb	0.041
124679-HXCDD					1.033		1.240	1253	1378								
1234679-HPCDD	39.296	0.974	7.884e2	9.230e2	1.286	0.854	1.050	1117	965	1.39e4	1.46e4	12.5	15.1	YES	bb	bb	0.433
Total-tetrafurans			2.026e4		0.933			752		3.10e5							9.746
Total-penta1			0.000e0					687		0.00e0							
Total-pentafurans			2.618e5		0.866			1105		3.95e6							94.041
Total-hexafurans			4.927e5		1.208			1334		7.31e6							185.626
Total-heptafurans			2.030e5		1.185			1514		3.04e6							93.854
Total-Furans			1.108e6		1.067			752		1.61e7							468.079
Total-tetradoxins			1.995e4		1.099			941		3.04e5							9.231
Total-pentadoxins			1.048e5		1.392			889		1.58e6							47.494
Total-hexadoxins			3.075e5		1.007			1253		4.87e6							145.952
Total-heptadoxins			8.947e4		1.269			1117		1.35e6							45.284
Total-Dioxins			6.574e5		1.165			941		9.66e6							340.893
Total-TEQ			1.766e6					941		2.57e7							808.973
FUNCTION1 PFK			4.910e4					267757		1.55e6							
FUNCTION2 PFK			1.180e5					185937		3.75e6							0.000
FUNCTION3 PFK			2.556e3					191562		2.29e5							0.000
FUNCTION4 PFK			1.002e5					199226		3.27e6							
FUNCTION5 PFK			0.000e0					109767		0.00e0							
FUNCTION1 HXCD...			5.384e2					528		8.82e3							0.000
FUNCTION1 HPCD...			7.446e2					860		1.28e4							0.000
FUNCTION2 HPCD...			3.333e2					790		6.70e3							0.000
FUNCTION3 OCDPE			1.764e2					697		3.77e3							0.000
FUNCTION4 NCDPE			3.656e2					739		9.43e3							0.000
FUNCTION5 DCDPE			0.000e0					631		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10**Calibration: T:\Autospec\Curves\230201CIH.cdb 03 Feb 2023 10:33:40****ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, 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	25.87	2.026e4	2.707e4	0.876	0.75	0.77	412.3	YES	NO	bb	bb	9.746

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	12389-PECDF	32.41	1.061e3	7.981e2	0.844	1.33	1.55	14.9	YES	NO	bb	bb	0.399
2	23478-PeCDF	31.37	1.337e5	8.848e4	0.911	1.51	1.55	1823.8	YES	NO	bb	bd	47.822
3	12378-PeCDF	30.04	1.270e5	8.657e4	0.845	1.47	1.55	1740.1	YES	NO	bb	bd	45.819

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.12	1.396e5	1.103e5	1.248	1.27	1.24	1491.8	YES	NO	dd	dd	46.968
2	123478-HxCDF	34.98	1.218e5	9.739e4	1.182	1.25	1.24	1419.2	YES	NO	dd	bd	45.484
3	123789-HxCDF	37.01	1.063e5	8.480e4	1.187	1.25	1.24	1165.3	YES	NO	bd	bd	46.348
4	234678-HxCDF	35.98	1.251e5	9.889e4	1.229	1.26	1.24	1406.4	YES	NO	dd	bd	46.826

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.09	9.117e4	9.161e4	1.165	1.00	1.05	832.8	YES	NO	bd	bd	45.575
2	1234678-HpCDF	38.84	1.118e5	1.073e5	1.204	1.04	1.05	1172.5	YES	NO	bb	bd	48.279

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:28:57 Pacific Standard Time

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, 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	25.87	2.026e4	2.707e4	0.876	0.75	0.77	412.3	YES	NO	bb	bb	9.746
2	12389-PECDF	32.41	1.061e3	7.981e2	0.844	1.33	1.55	14.9	YES	NO	bb	bb	0.399
3	23478-PeCDF	31.37	1.337e5	8.848e4	0.911	1.51	1.55	1823.8	YES	NO	bb	bd	47.822
4	12378-PeCDF	30.04	1.270e5	8.657e4	0.845	1.47	1.55	1740.1	YES	NO	bb	bd	45.819
5	123678-HxCDF	35.12	1.396e5	1.103e5	1.248	1.27	1.24	1491.8	YES	NO	dd	dd	46.968
6	123478-HxCDF	34.98	1.218e5	9.739e4	1.182	1.25	1.24	1419.2	YES	NO	dd	bd	45.484
7	123789-HxCDF	37.01	1.063e5	8.480e4	1.187	1.25	1.24	1165.3	YES	NO	bd	bd	46.348
8	234678-HxCDF	35.98	1.251e5	9.889e4	1.229	1.26	1.24	1406.4	YES	NO	dd	bd	46.826
9	1234789-HpCDF	41.09	9.117e4	9.161e4	1.165	1.00	1.05	832.8	YES	NO	bd	bd	45.575
10	1234678-HpCDF	38.84	1.118e5	1.073e5	1.204	1.04	1.05	1172.5	YES	NO	bb	bd	48.279
11	OCDF	45.35	1.303e5	1.483e5	1.186	0.88	0.89	859.3	YES	NO	bd	bd	84.812

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.52	1.953e4	2.508e4	1.236	0.78	0.77	315.9	YES	NO	bb	bd	9.004
2	Total-tetradoxins	26.14	4.236e2	5.769e2	1.099	0.73	0.77	6.7	YES	NO	bb	dd	0.227

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.62	1.048e5	6.558e4	1.087	1.60	1.55	1780.3	YES	NO	bb	bb	47.494

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.59	1.063e5	8.766e4	0.985	1.21	1.24	1315.3	YES	NO	bb	bb	50.955
2	123678-HxCDD	36.21	1.041e5	8.566e4	1.021	1.22	1.24	1321.1	YES	NO	db	db	46.986
3	123478-HxCDD	36.10	9.715e4	8.140e4	0.987	1.19	1.24	1251.1	YES	NO	bd	bd	48.011

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.34	8.947e4	8.471e4	1.253	1.06	1.05	1209.0	YES	NO	bd	bd	45.284

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

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Printed: Wednesday, February 08, 2023 09:28:57 Pacific Standard Time

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, 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	26.52	1.953e4	2.508e4	1.236	0.78	0.77	315.9	YES	NO	bb	bd	9.004
2	Total-tetradiioxins	26.14	4.236e2	5.769e2	1.099	0.73	0.77	6.7	YES	NO	bb	dd	0.227
3	12378-PeCDD	31.62	1.048e5	6.558e4	1.087	1.60	1.55	1780.3	YES	NO	bb	bb	47.494
4	123789-HxCDD	36.59	1.063e5	8.766e4	0.985	1.21	1.24	1315.3	YES	NO	bb	bb	50.955
5	123678-HxCDD	36.21	1.041e5	8.566e4	1.021	1.22	1.24	1321.1	YES	NO	db	db	46.986
6	123478-HxCDD	36.10	9.715e4	8.140e4	0.987	1.19	1.24	1251.1	YES	NO	bd	bd	48.011
7	1234678-HpCDD	40.34	8.947e4	8.471e4	1.253	1.06	1.05	1209.0	YES	NO	bd	bd	45.284
8	OCDD	45.11	1.356e5	1.482e5	1.103	0.92	0.89	1411.5	YES	NO	bd	bb	92.932

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.87	2.026e4	2.707e4	0.876	0.75	0.77	412.3	YES	NO	bb	bb	9.746
2	12389-PECDF	32.41	1.061e3	7.981e2	0.844	1.33	1.55	14.9	YES	NO	bb	bb	0.399
3	23478-PeCDF	31.37	1.337e5	8.848e4	0.911	1.51	1.55	1823.8	YES	NO	bb	bd	47.822
4	12378-PeCDF	30.04	1.270e5	8.657e4	0.845	1.47	1.55	1740.1	YES	NO	bb	bd	45.819
5	123678-HxCDF	35.12	1.396e5	1.103e5	1.248	1.27	1.24	1491.8	YES	NO	dd	dd	46.968
6	123478-HxCDF	34.98	1.218e5	9.739e4	1.182	1.25	1.24	1419.2	YES	NO	dd	bd	45.484
7	123789-HxCDF	37.01	1.063e5	8.480e4	1.187	1.25	1.24	1165.3	YES	NO	bd	bd	46.348
8	234678-HxCDF	35.98	1.251e5	9.889e4	1.229	1.26	1.24	1406.4	YES	NO	dd	bd	46.826
9	1234789-HpCDF	41.09	9.117e4	9.161e4	1.165	1.00	1.05	832.8	YES	NO	bd	bd	45.575
10	1234678-HpCDF	38.84	1.118e5	1.073e5	1.204	1.04	1.05	1172.5	YES	NO	bb	bd	48.279
11	OCDF	45.35	1.303e5	1.483e5	1.186	0.88	0.89	859.3	YES	NO	bd	bd	84.812
12	2378-TCDD	26.52	1.953e4	2.508e4	1.236	0.78	0.77	315.9	YES	NO	bb	bd	9.004
13	Total-tetradiioxins	26.14	4.236e2	5.769e2	1.099	0.73	0.77	6.7	YES	NO	bb	dd	0.227
14	12378-PeCDD	31.62	1.048e5	6.558e4	1.087	1.60	1.55	1780.3	YES	NO	bb	bb	47.494
15	123789-HxCDD	36.59	1.063e5	8.766e4	0.985	1.21	1.24	1315.3	YES	NO	bb	bb	50.955
16	123678-HxCDD	36.21	1.041e5	8.566e4	1.021	1.22	1.24	1321.1	YES	NO	db	db	46.986
17	123478-HxCDD	36.10	9.715e4	8.140e4	0.987	1.19	1.24	1251.1	YES	NO	bd	bd	48.011
18	1234678-HpCDD	40.34	8.947e4	8.471e4	1.253	1.06	1.05	1209.0	YES	NO	bd	bd	45.284
19	OCDD	45.11	1.356e5	1.482e5	1.103	0.92	0.89	1411.5	YES	NO	bd	bb	92.932

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.15	2.964e4					3.6	YES		bb		
2	FUNCTION1 PFK	22.83	1.946e4					2.3	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, 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	31.39	1.263e4					2.4	NO		db		0.000
2	FUNCTION2 PFK	31.34	8.868e3					1.5	NO		bd		0.000
3	FUNCTION2 PFK	31.10	4.848e3					1.2	NO		bb		0.000
4	FUNCTION2 PFK	30.81	4.251e3					0.9	NO		bb		0.000
5	FUNCTION2 PFK	30.30	6.467e3					1.0	NO		bb		0.000
6	FUNCTION2 PFK	30.00	5.602e3					1.2	NO		bb		0.000
7	FUNCTION2 PFK	29.95	9.789e2					0.5	NO		bb		0.000
8	FUNCTION2 PFK	29.80	5.310e3					1.2	NO		bb		0.000
9	FUNCTION2 PFK	29.14	1.483e3					0.7	NO		bb		0.000
10	FUNCTION2 PFK	28.90	1.492e4					2.3	NO		bb		0.000
11	FUNCTION2 PFK	28.78	5.701e3					1.3	NO		bb		0.000
12	FUNCTION2 PFK	28.44	2.910e4					2.2	NO		bb		0.000
13	FUNCTION2 PFK	28.34	1.128e4					1.9	NO		db		0.000
14	FUNCTION2 PFK	28.31	5.266e3					1.3	NO		bd		0.000
15	FUNCTION2 PFK	32.74	1.265e3					0.6	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	33.00	2.556e3					1.2	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:28:57 Pacific Standard Time

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, 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	42.29	6.912e3					1.3	NO		bd		
2	FUNCTION4 PFK	42.21	4.197e3					0.5	NO		bb		
3	FUNCTION4 PFK	42.14	2.767e3					0.7	NO		bb		
4	FUNCTION4 PFK	41.64	7.920e3					1.3	NO		bb		
5	FUNCTION4 PFK	41.49	2.427e3					0.7	NO		bb		
6	FUNCTION4 PFK	40.86	5.179e3					1.1	NO		bb		
7	FUNCTION4 PFK	39.93	6.547e3					1.1	NO		bb		
8	FUNCTION4 PFK	39.80	9.263e3					1.3	NO		bb		
9	FUNCTION4 PFK	39.72	6.619e3					1.1	NO		bb		
10	FUNCTION4 PFK	39.55	1.043e3					0.5	NO		bb		
11	FUNCTION4 PFK	38.32	1.083e4					1.7	NO		db		
12	FUNCTION4 PFK	38.26	2.125e4					2.3	NO		bd		
13	FUNCTION4 PFK	42.85	3.673e3					0.8	NO		bb		
14	FUNCTION4 PFK	42.69	3.344e3					0.8	NO		bb		
15	FUNCTION4 PFK	42.34	8.240e3					1.4	NO		db		

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...	28.07	7.326e1					2.2	NO		bb		0.000
2	FUNCTION1 HXCD...	27.62	8.351e1					4.1	YES		bb		0.000
3	FUNCTION1 HXCD...	27.38	1.014e2					2.9	NO		bb		0.000
4	FUNCTION1 HXCD...	24.84	9.136e1					2.3	NO		bb		0.000
5	FUNCTION1 HXCD...	23.02	7.236e1					2.5	NO		db		0.000
6	FUNCTION1 HXCD...	22.92	1.165e2					2.7	NO		bd		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:28:57 Pacific Standard Time

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, 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...	25.76	1.095e2					2.2	NO		dd		0.000
2	FUNCTION1 HPCD...	25.70	8.104e1					2.2	NO		bd		0.000
3	FUNCTION1 HPCD...	25.43	7.475e1					1.5	NO		bb		0.000
4	FUNCTION1 HPCD...	22.15	9.245e1					1.1	NO		bb		0.000
5	FUNCTION1 HPCD...	27.61	1.531e2					2.0	NO		db		0.000
6	FUNCTION1 HPCD...	27.51	9.292e1					1.9	NO		bd		0.000
7	FUNCTION1 HPCD...	26.17	7.073e1					2.4	NO		bb		0.000
8	FUNCTION1 HPCD...	25.85	7.009e1					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...	30.64	1.107e2					2.1	NO		bb		0.000
2	FUNCTION2 HPCD...	28.92	1.513e2					4.7	YES		bb		0.000
3	FUNCTION2 HPCD...	28.25	7.129e1					1.6	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	7.436e1					2.3	NO		bb		0.000
2	FUNCTION3 OCDPE	33.19	1.021e2					3.1	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	41.00	7.117e1					2.1	NO		db		0.000
2	FUNCTION4 NCDPE	40.88	7.719e1					2.0	NO		dd		0.000
3	FUNCTION4 NCDPE	40.84	7.460e1					2.0	NO		bd		0.000
4	FUNCTION4 NCDPE	38.46	7.172e1					3.8	YES		bb		0.000
5	FUNCTION4 NCDPE	41.33	7.089e1					2.9	NO		bb		0.000

ETHERS6

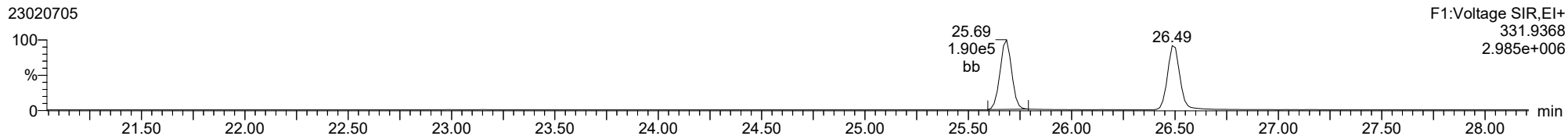
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1													

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

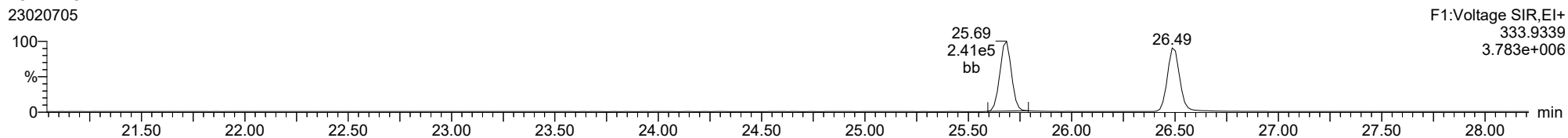
23020705



F1:Voltage SIR,El+
331.9368
2.985e+006

13C-1234-TCDD

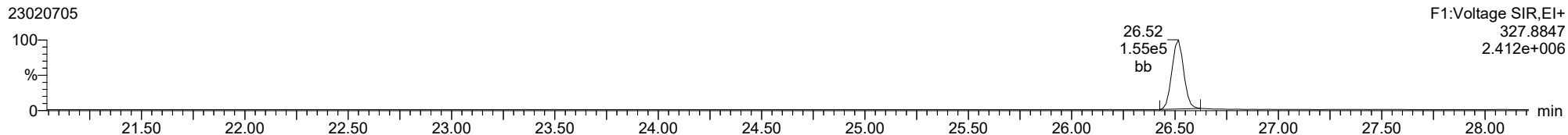
23020705



F1:Voltage SIR,El+
333.9339
3.783e+006

37CL-2378-TCDD

23020705

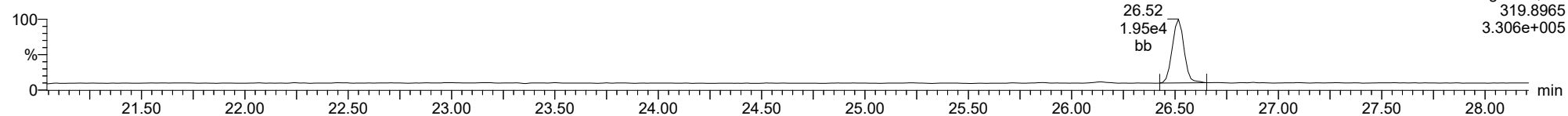


F1:Voltage SIR,El+
327.8847
2.412e+006

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

2378-TCDD

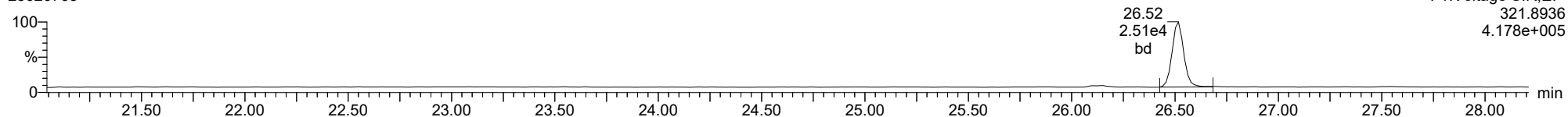
23020705



F1:Voltage SIR,EI+
321.8936
3.306e+005

2378-TCDD

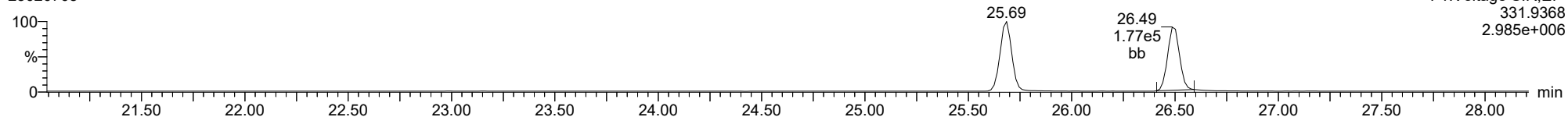
23020705



F1:Voltage SIR,EI+
321.8936
4.178e+005

13C-2378-TCDD

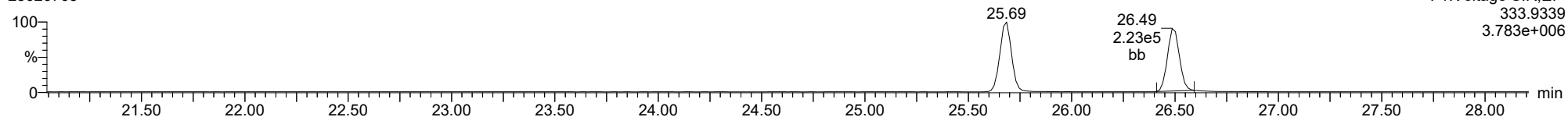
23020705



F1:Voltage SIR,EI+
331.9368
2.985e+006

13C-2378-TCDD

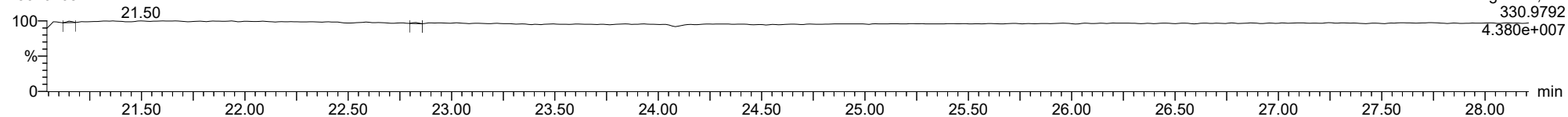
23020705



F1:Voltage SIR,EI+
333.9339
3.783e+006

FUNCTION1 PFK

23020705

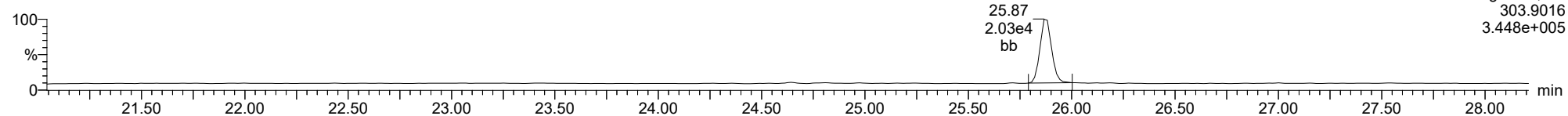


F1:Voltage SIR,EI+
330.9792
4.380e+007

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

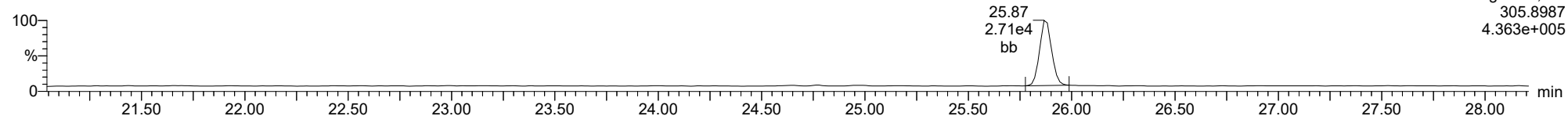
2378-TCDF

23020705



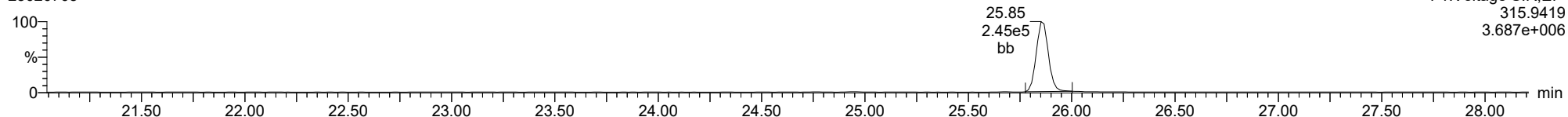
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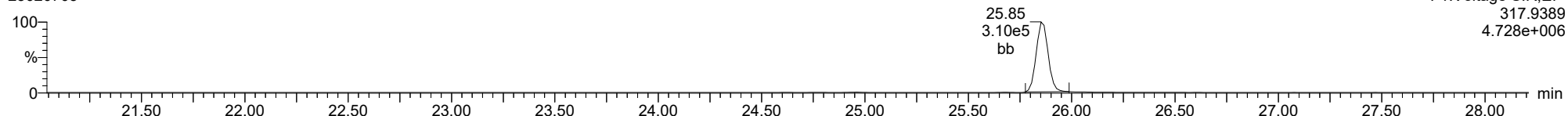
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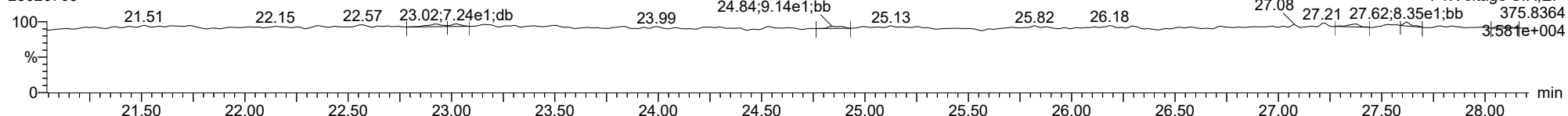
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23020705



FUNCTION1 HXCDPE

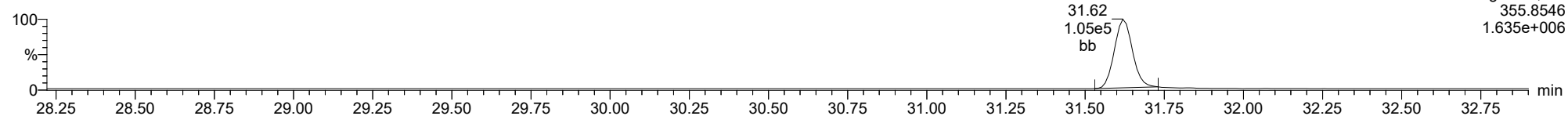
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

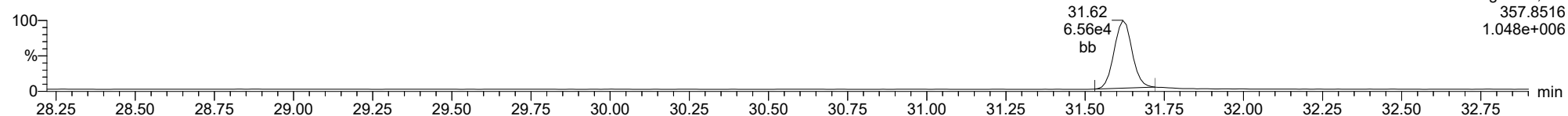
12378-PeCDD

23020705



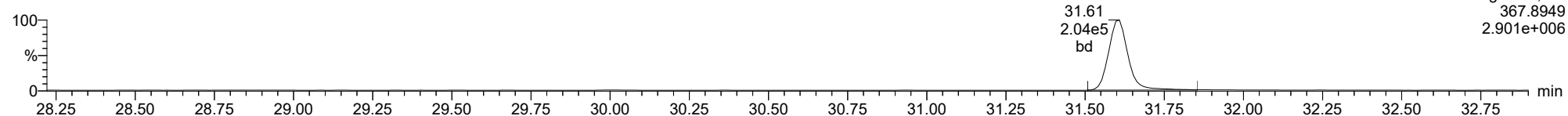
12378-PeCDD

23020705



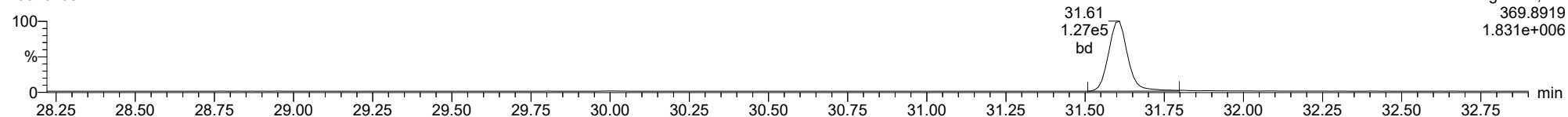
13C-12378-PeCDD

23020705



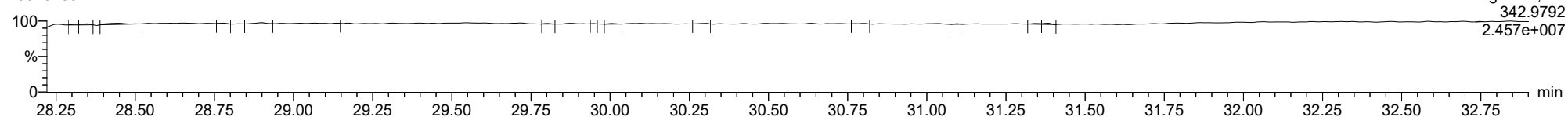
13C-12378-PeCDD

23020705



FUNCTION2 PFK

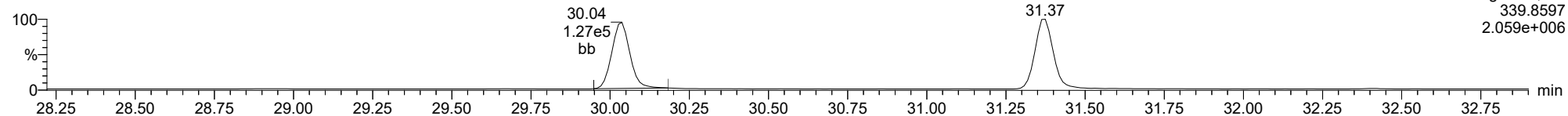
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

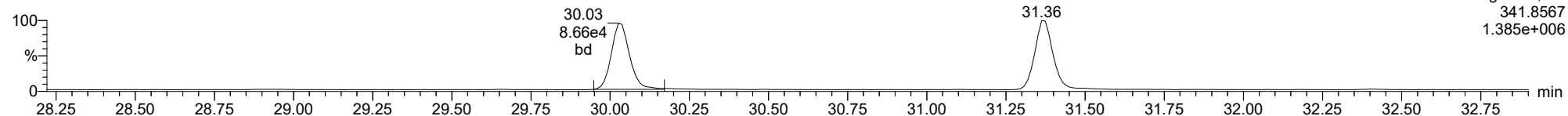
12378-PeCDF

23020705



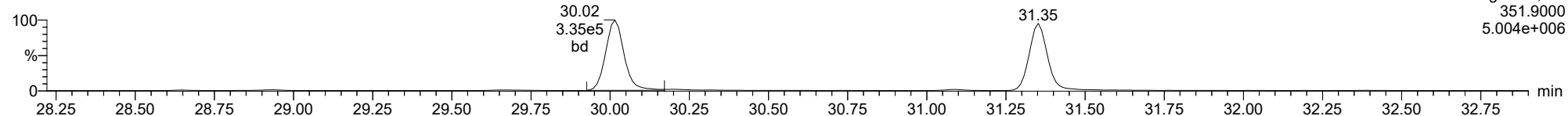
12378-PeCDF

23020705



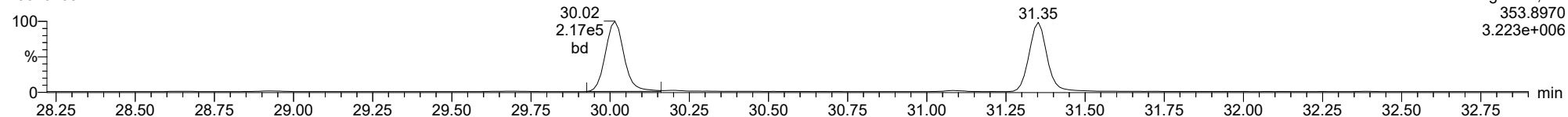
13C-12378-PeCDF

23020705



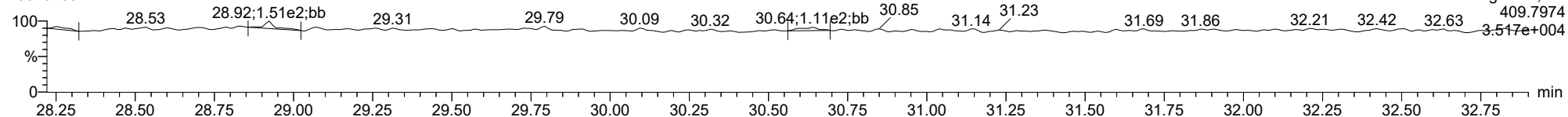
13C-12378-PeCDF

23020705



FUNCTION2 HPCDPE

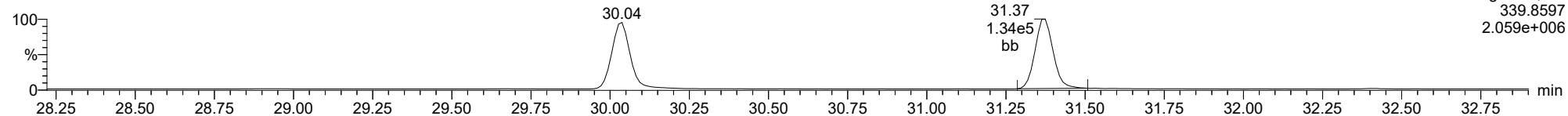
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

23478-PeCDF

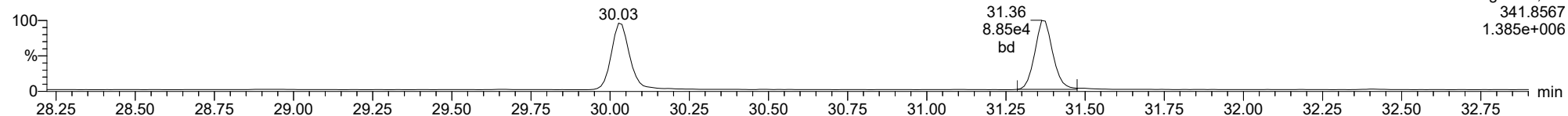
23020705



F2:Voltage SIR,EI+
339.8597
2.059e+006

23478-PeCDF

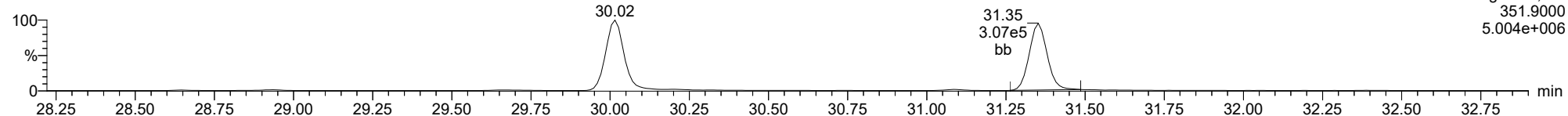
23020705



F2:Voltage SIR,EI+
341.8567
1.385e+006

13C-23478-PeCDF

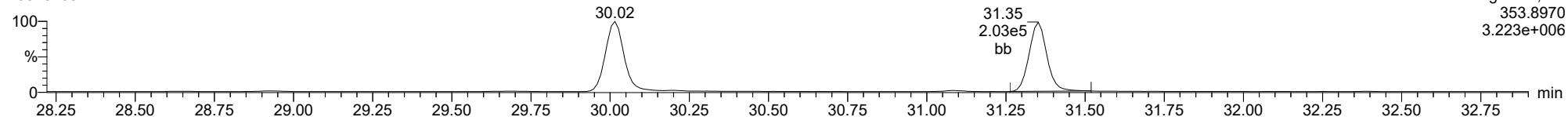
23020705



F2:Voltage SIR,EI+
351.9000
5.004e+006

13C-23478-PeCDF

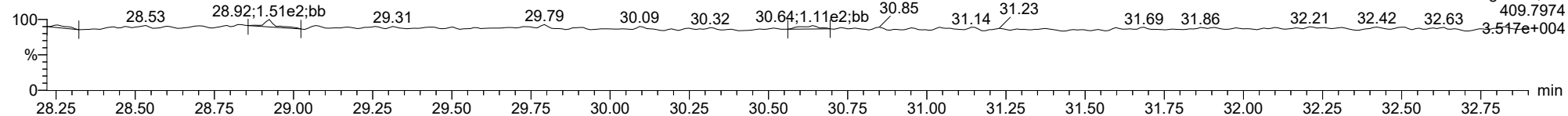
23020705



F2:Voltage SIR,EI+
353.8970
3.223e+006

FUNCTION2 HPCDPE

23020705

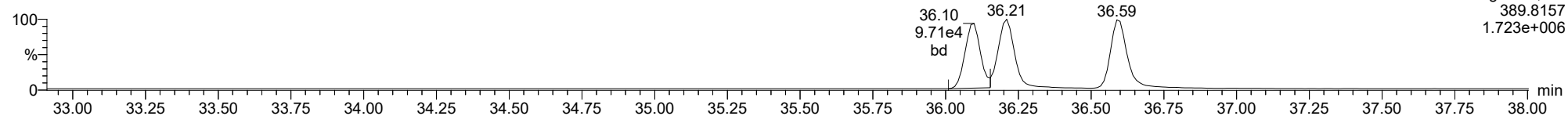


F2:Voltage SIR,EI+
409.7974
3.517e+004

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

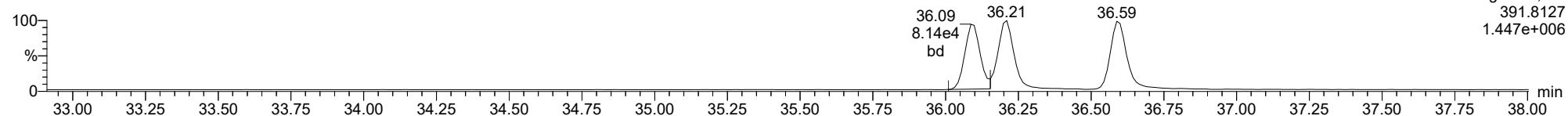
123478-HxCDD

23020705



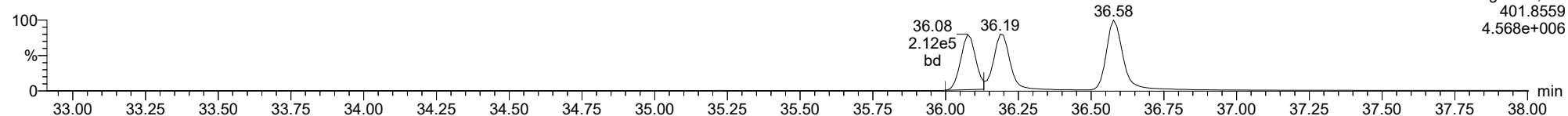
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23020705



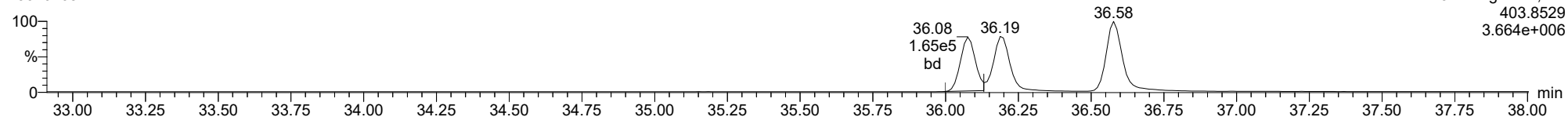
13C-123478-HxCDD

23020705



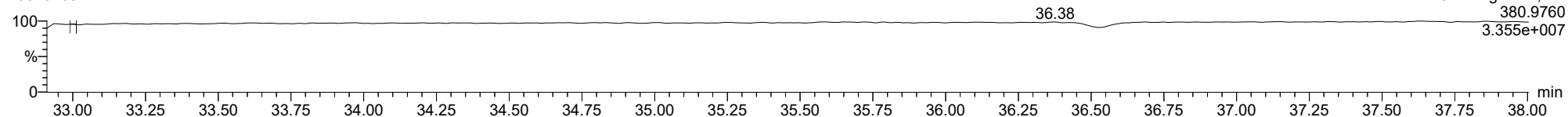
13C-123478-HxCDD

23020705



FUNCTION3 PFK

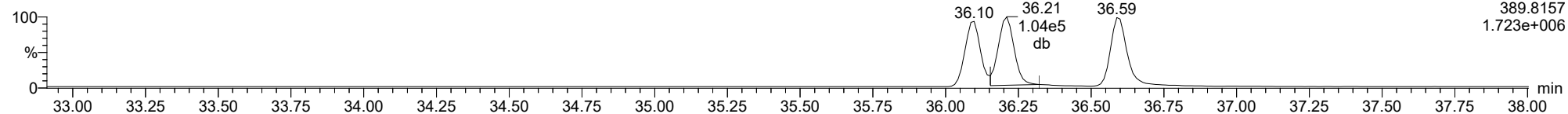
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

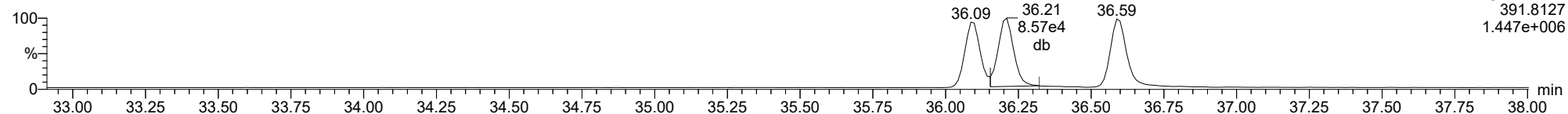
123678-HxCDD

23020705



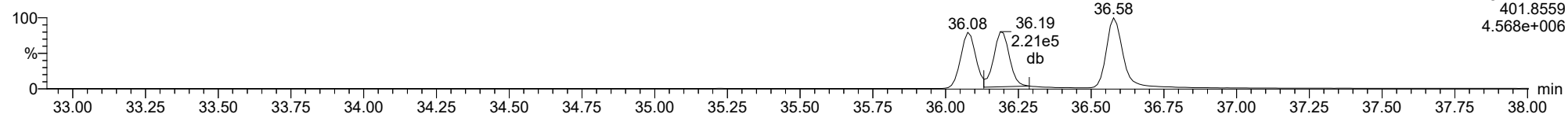
123678-HxCDD

23020705



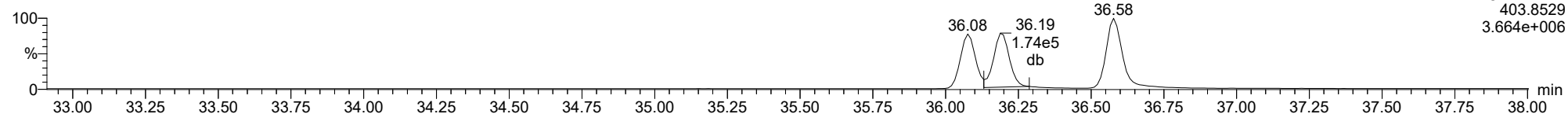
13C-123678-HxCDD

23020705



13C-123678-HxCDD

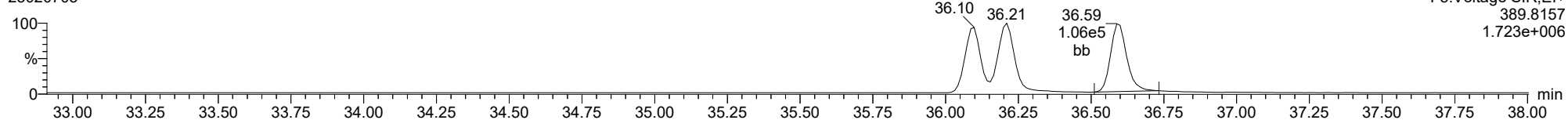
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

123789-HxCDD

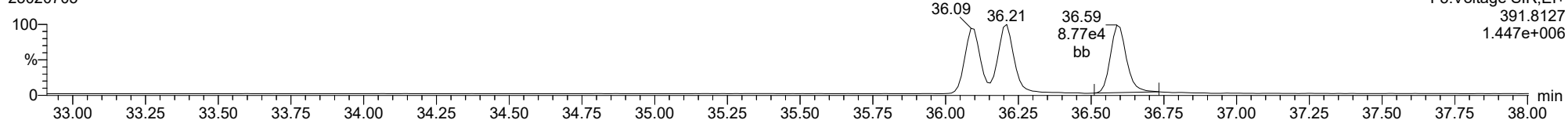
23020705



F3:Voltage SIR,EI+
389.8157
1.723e+006

123789-HxCDD

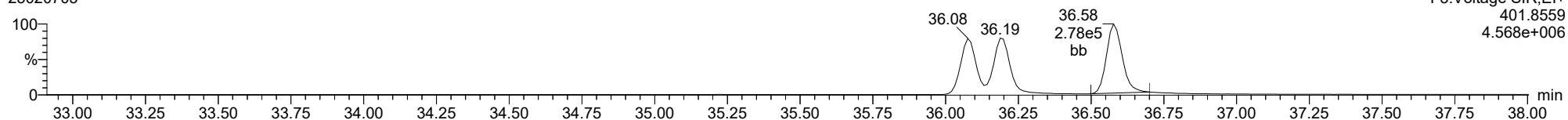
23020705



F3:Voltage SIR,EI+
391.8127
1.447e+006

13C-123789-HxCDD

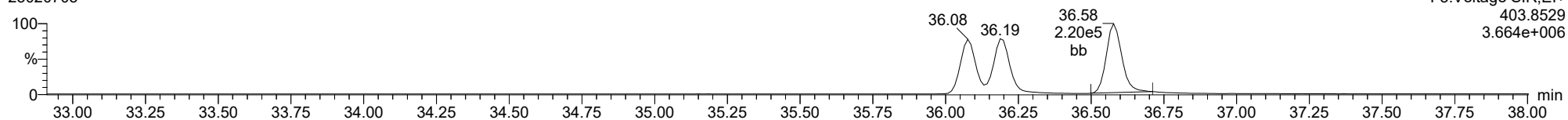
23020705



F3:Voltage SIR,EI+
401.8559
4.568e+006

13C-123789-HxCDD

23020705

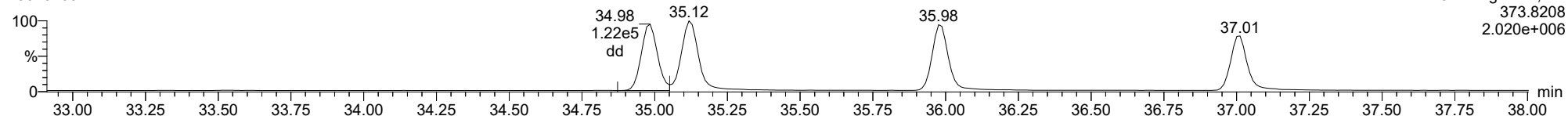


F3:Voltage SIR,EI+
403.8529
3.664e+006

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

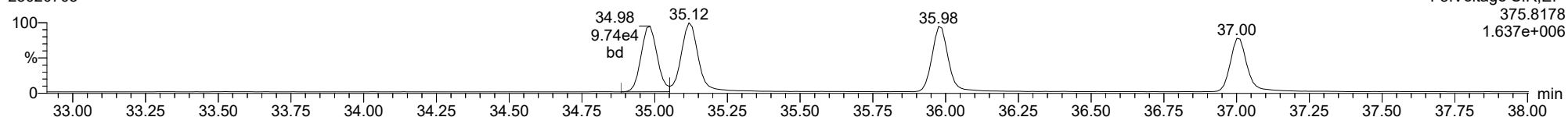
123478-HxCDF

23020705



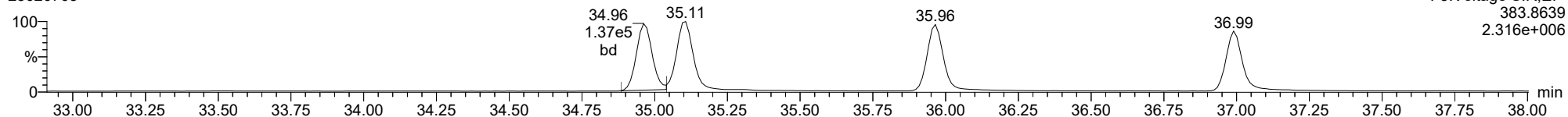
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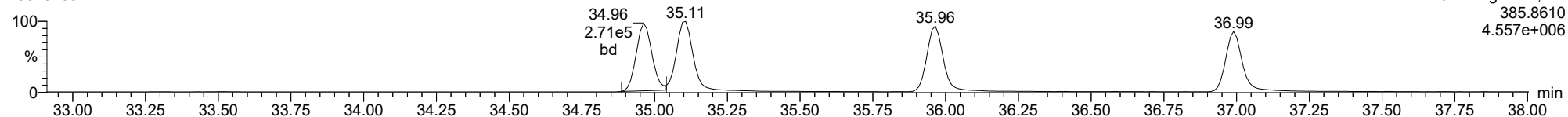
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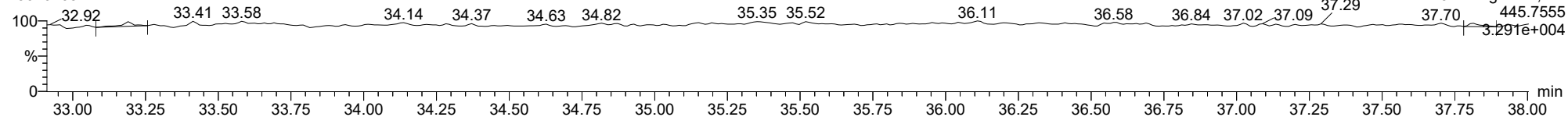
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FUNCTION3 OCDPE

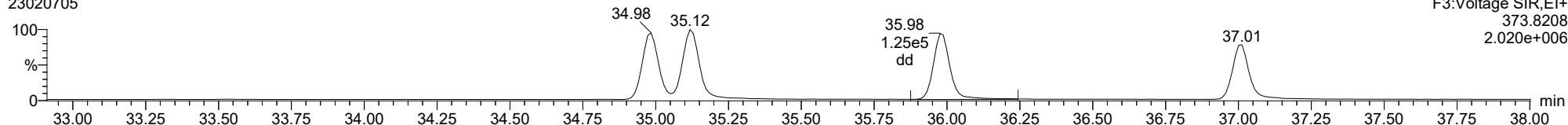
23020705



ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

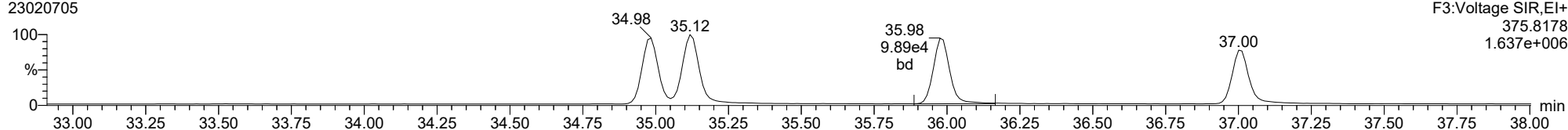
234678-HxCDF

23020705



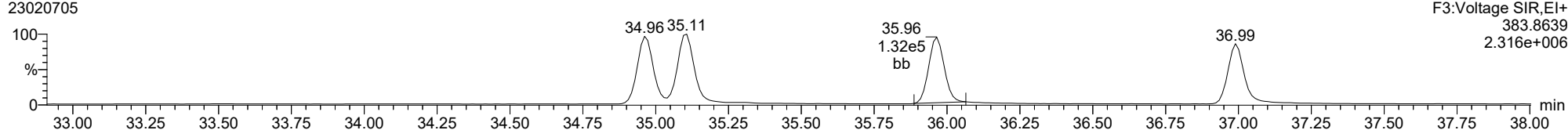
234678-HxCDF

23020705



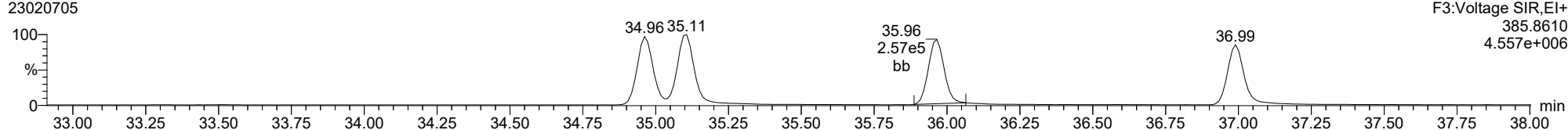
13C-234678-HxCDF

23020705



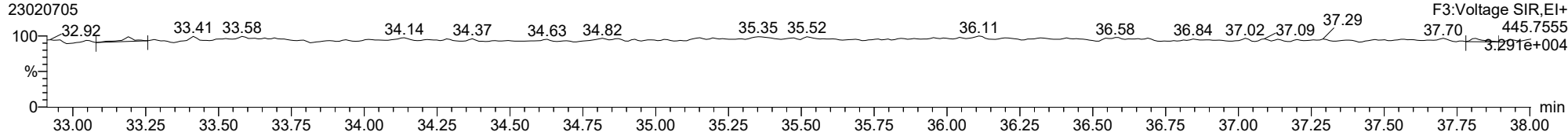
13C-234678-HxCDF

23020705



FUNCTION3 OCDPE

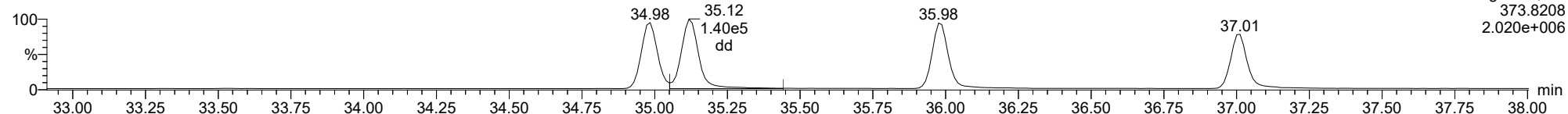
23020705



ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

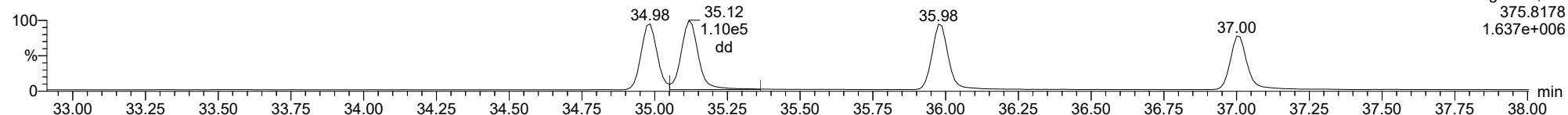
123678-HxCDF

23020705



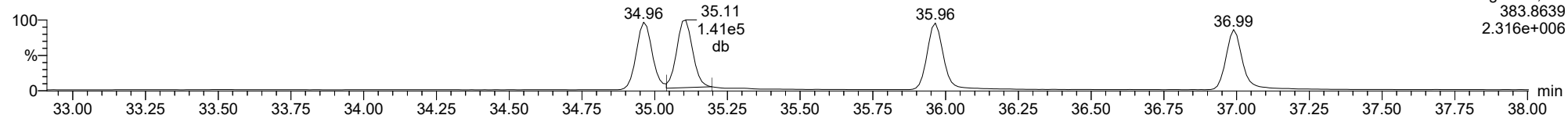
123678-HxCDF

23020705



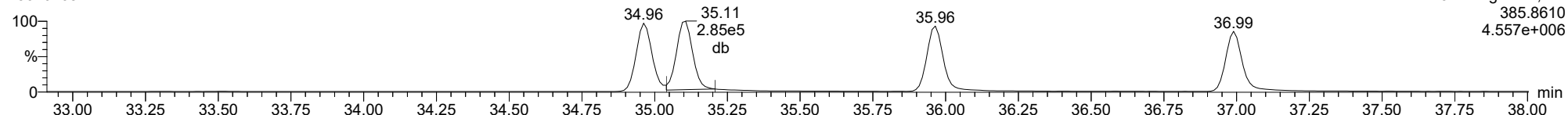
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23020705



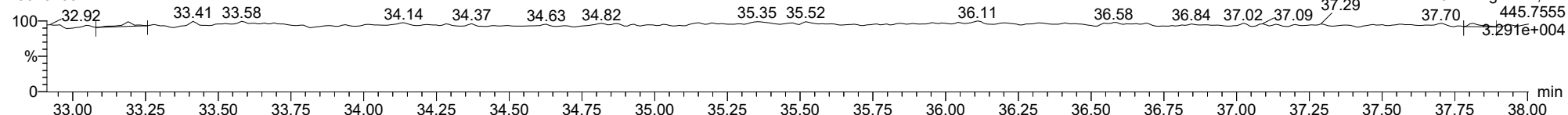
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23020705



FUNCTION3 OCDPE

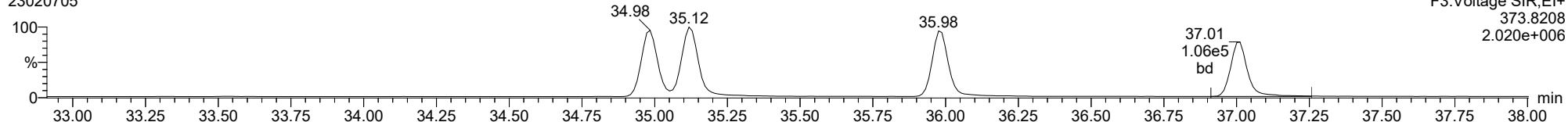
23020705



ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

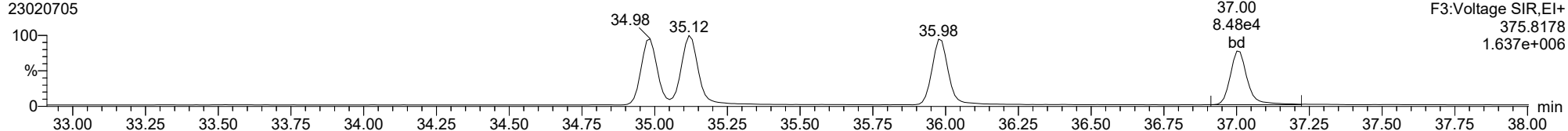
123789-HxCDF

23020705



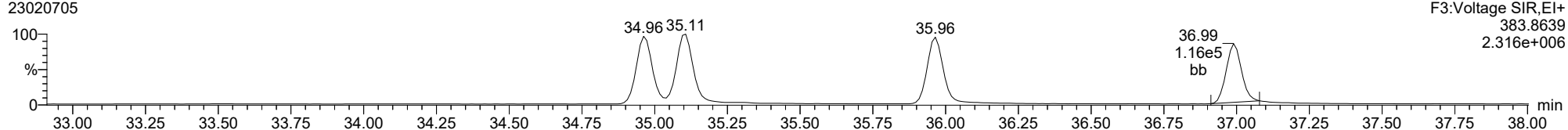
123789-HxCDF

23020705



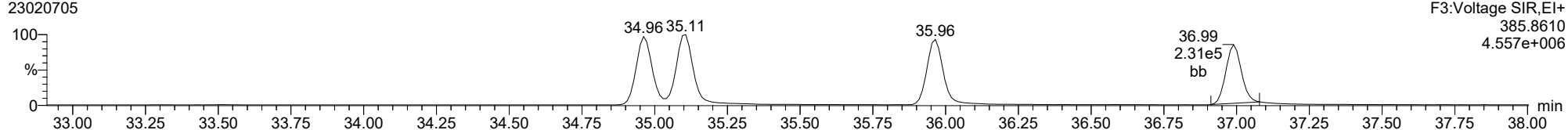
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23020705



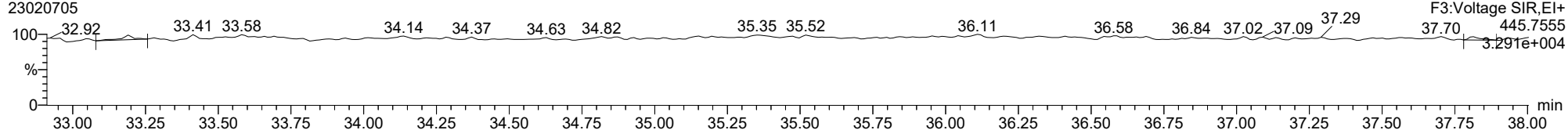
13C-123789-HxCDF

23020705



FUNCTION3 OCDPE

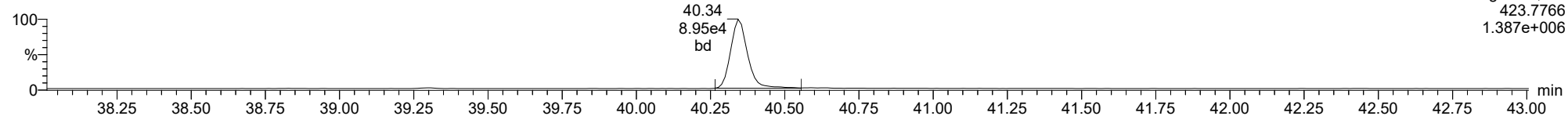
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

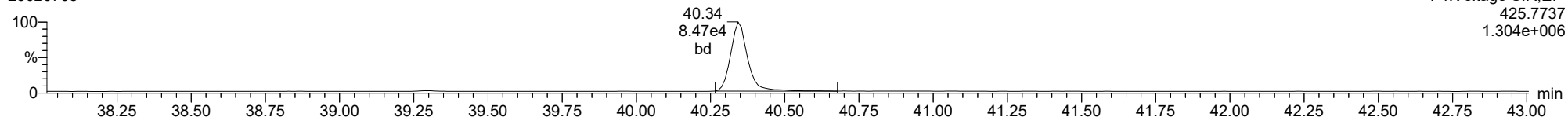
1234678-HpCDD

23020705



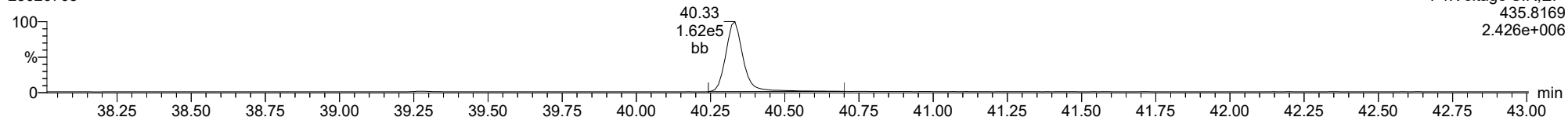
1234678-HpCDD

23020705



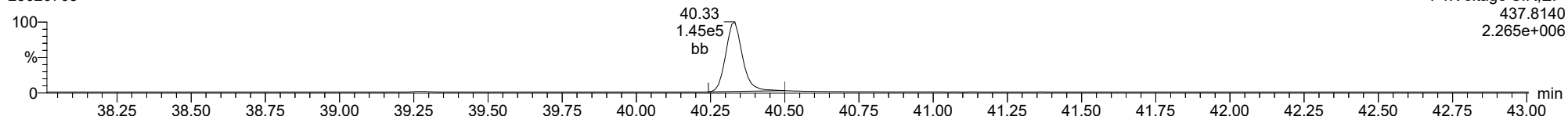
13C-1234678-HpCDD

23020705



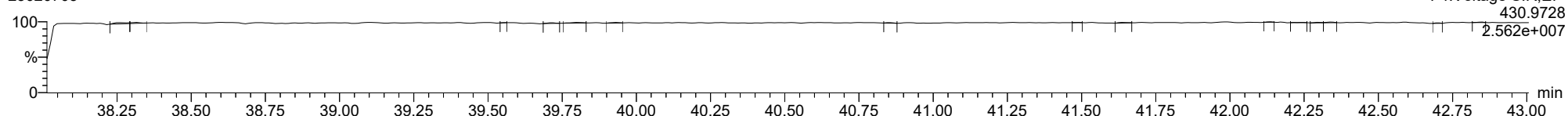
13C-1234678-HpCDD

23020705



FUNCTION4 PFK

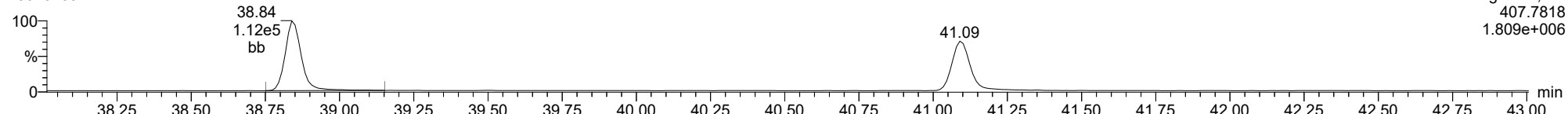
23020705



ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

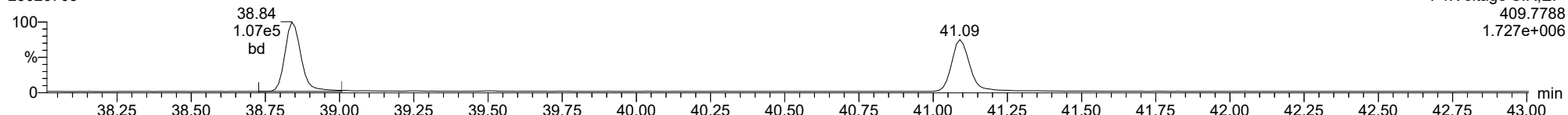
23020705



F4:Voltage SIR,El+
407.7818
1.809e+006

1234678-HpCDF

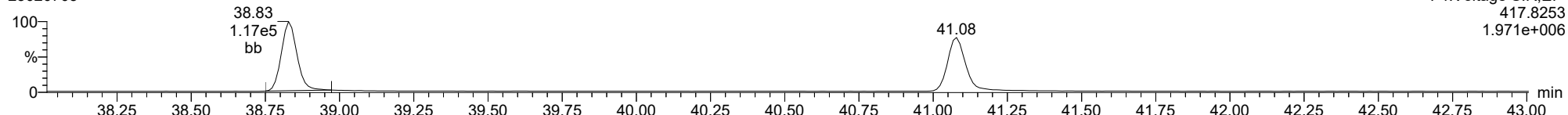
23020705



F4:Voltage SIR,El+
409.7788
1.727e+006

13C-1234678-HpCDF

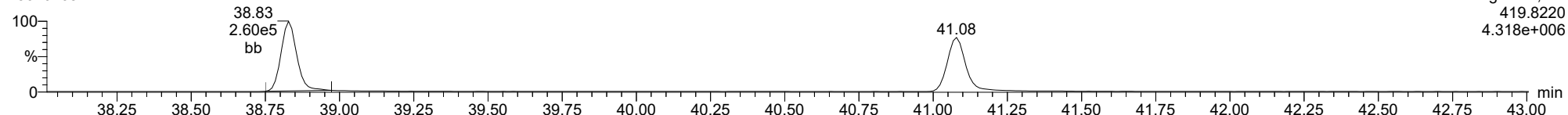
23020705



F4:Voltage SIR,El+
417.8253
1.971e+006

13C-1234678-HpCDF

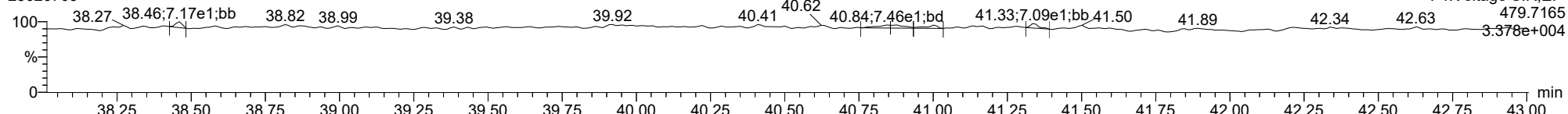
23020705



F4:Voltage SIR,El+
419.8220
4.318e+006

FUNCTION4 NCDPE

23020705

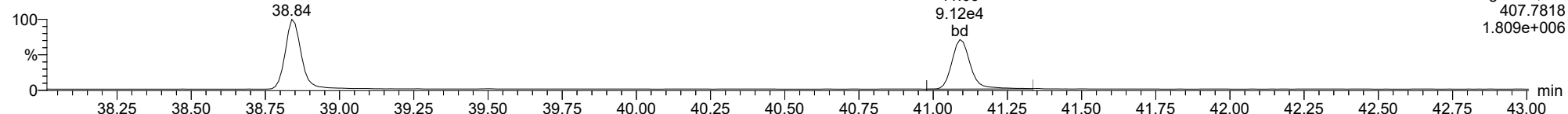


F4:Voltage SIR,El+
479.7165
3.37e+004

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

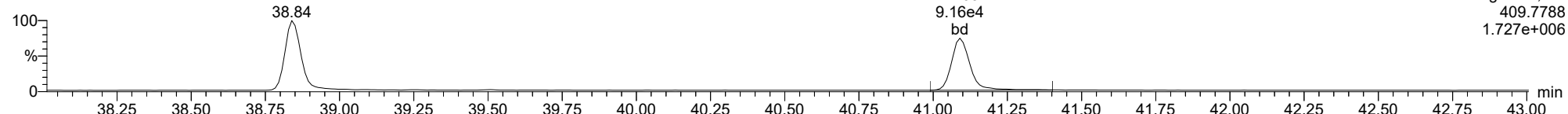
23020705



F4:Voltage SIR,El+
407.7818
1.809e+006

1234789-HpCDF

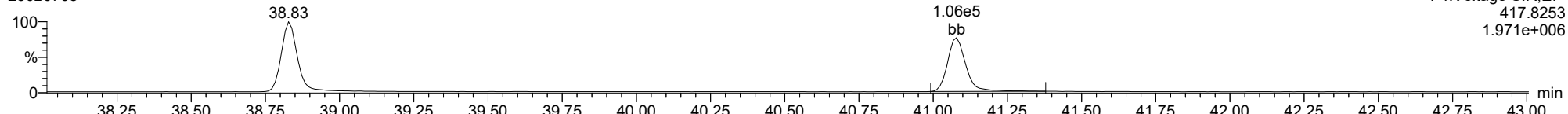
23020705



F4:Voltage SIR,El+
409.7788
1.727e+006

13C-1234789-HpCDF

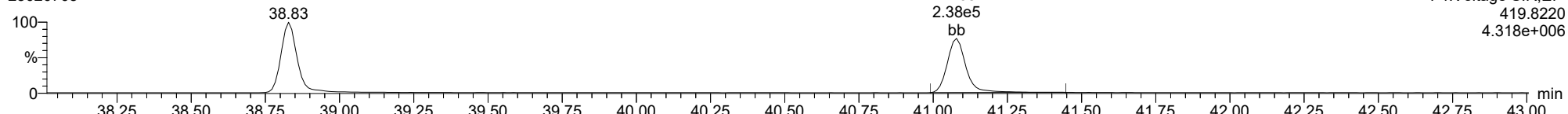
23020705



F4:Voltage SIR,El+
417.8253
1.971e+006

13C-1234789-HpCDF

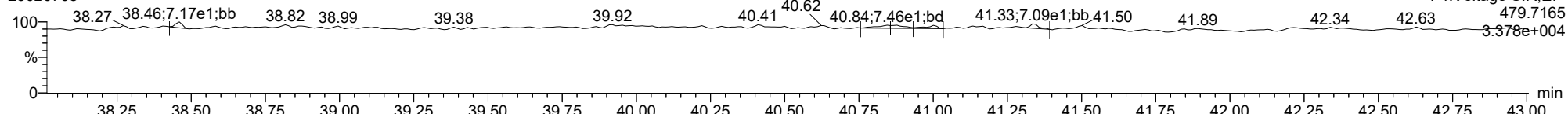
23020705



F4:Voltage SIR,El+
419.8220
4.318e+006

FUNCTION4 NCDPE

23020705

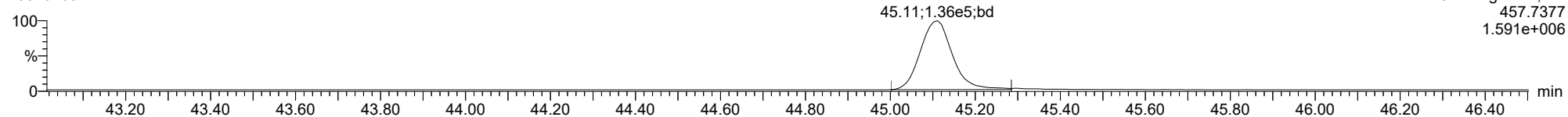


F4:Voltage SIR,El+
479.7165
3.378e+004

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

OCDD

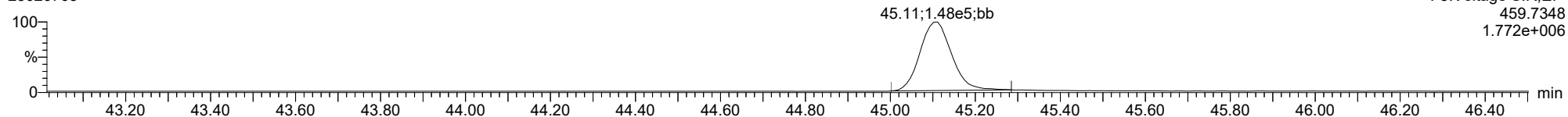
23020705



F5:Voltage SIR,EI+
457.7377
1.591e+006

OCDD

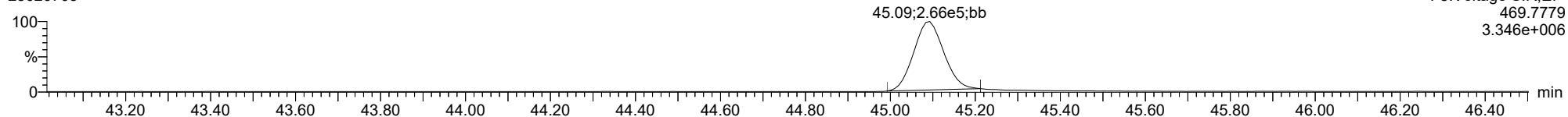
23020705



F5:Voltage SIR,EI+
459.7348
1.772e+006

13C-OCDD

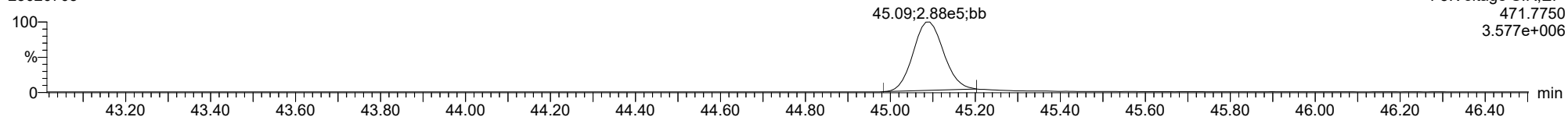
23020705



F5:Voltage SIR,EI+
469.7779
3.346e+006

13C-OCDD

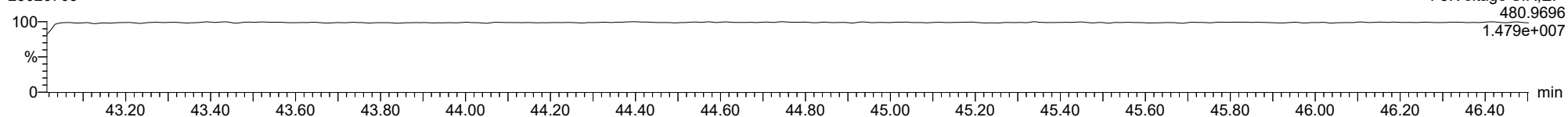
23020705



F5:Voltage SIR,EI+
471.7750
3.577e+006

FUNCTION5 PFK

23020705

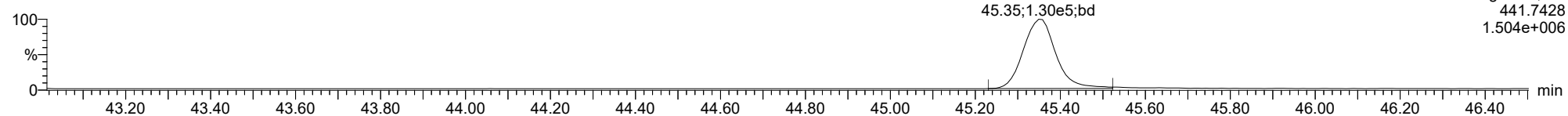


F5:Voltage SIR,EI+
480.9696
1.479e+007

ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

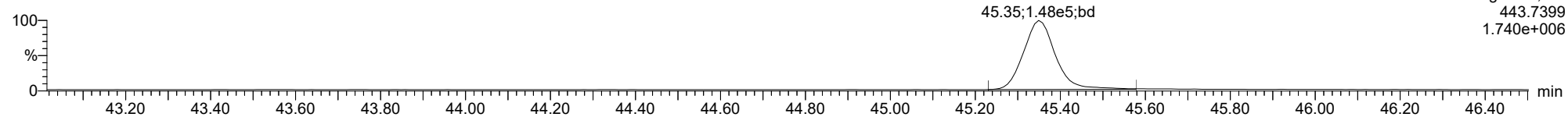
OCDF

23020705



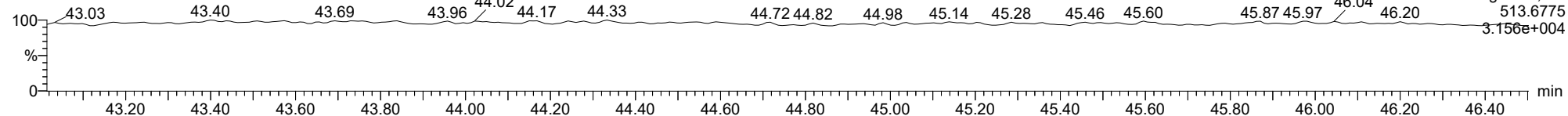
OCDF

23020705



FUNCTION5 DCDPE

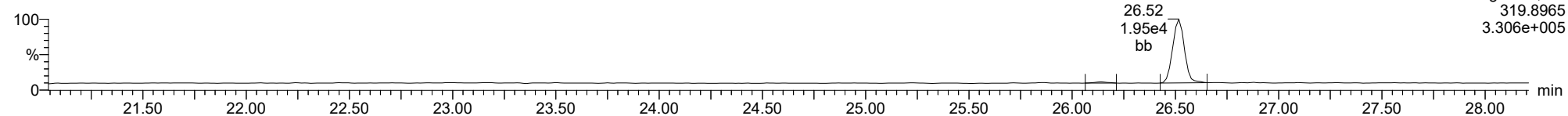
23020705



ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

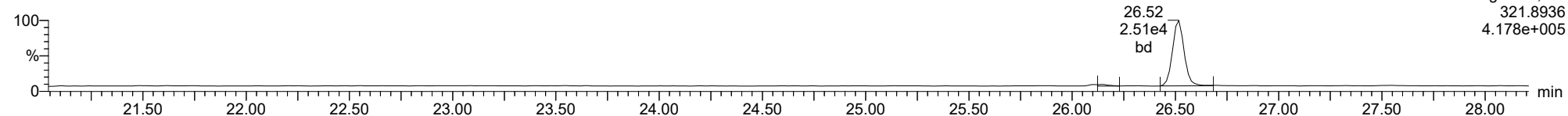
Total-tetradoxins

23020705



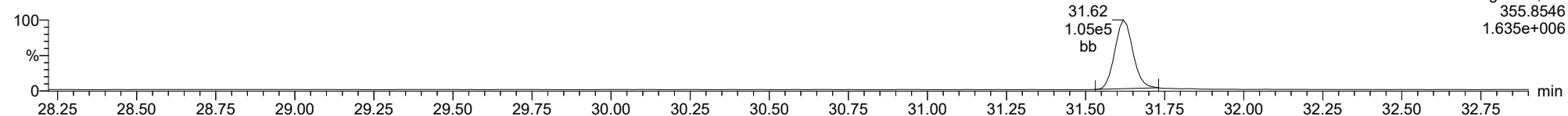
Total-tetradoxins

23020705



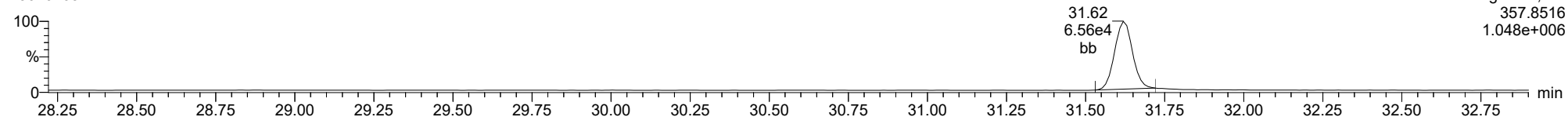
Total-pentadoxins

23020705



Total-pentadoxins

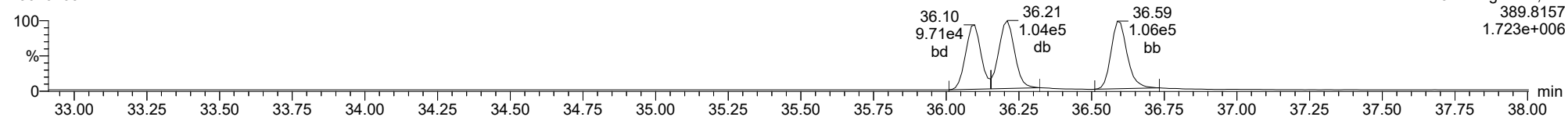
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

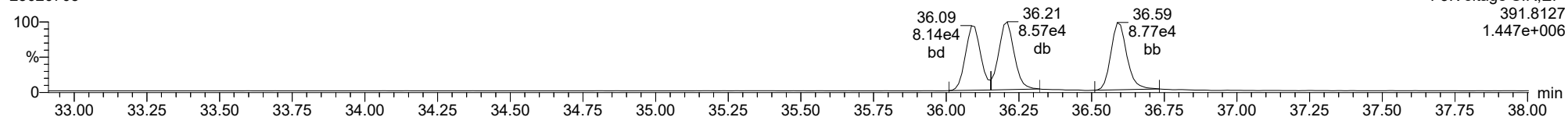
Total-hexadioxins

23020705



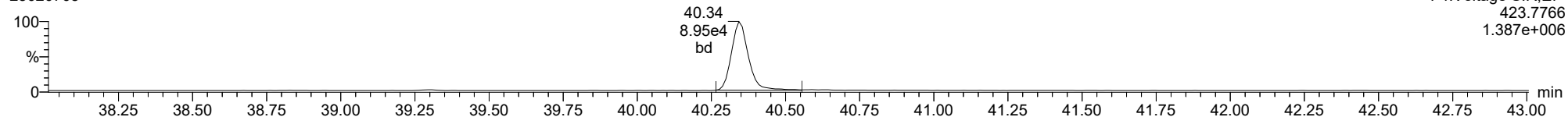
Total-hexadioxins

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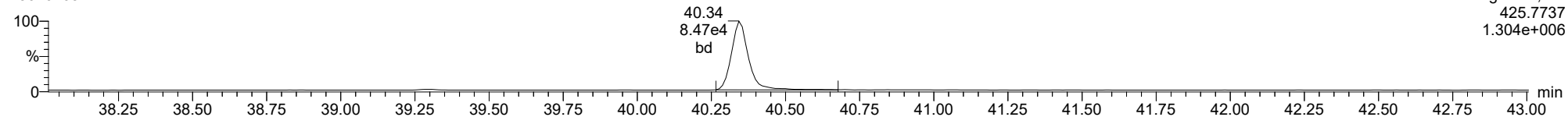
Total-heptadioxins

23020705



Total-heptadioxins

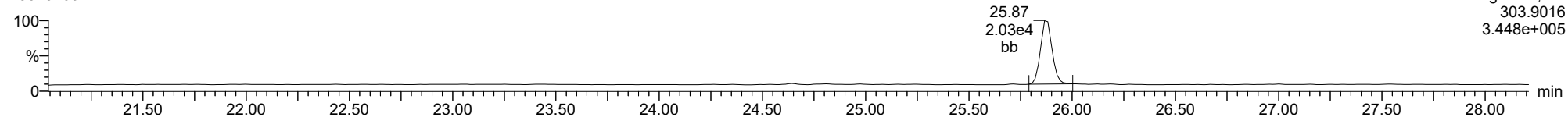
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

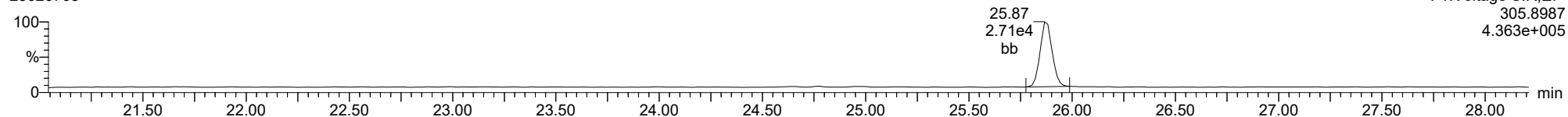
Total-tetrafurans

23020705



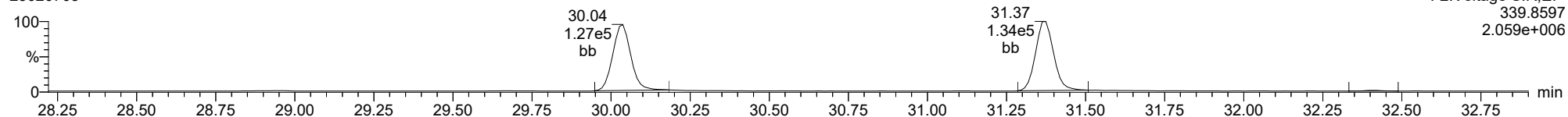
Total-tetrafurans

23020705



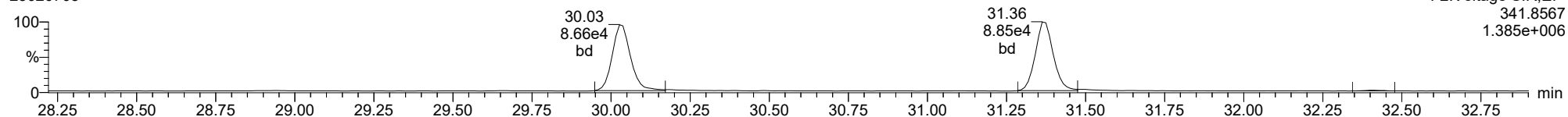
Total-pentafurans

23020705



Total-pentafurans

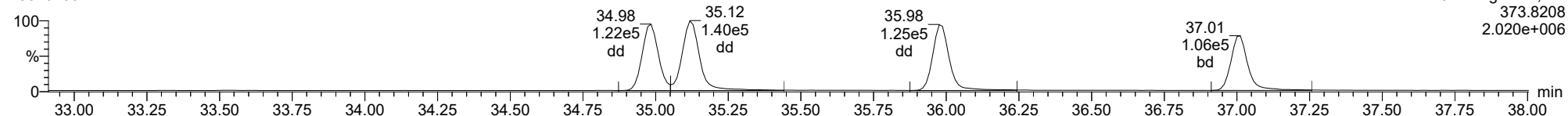
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ID: BLA0079-BS1, Name: 23020705, Date: 07-Feb-2023, Time: 11:58:38, Conditions: AUTOSPEC01, User: pk

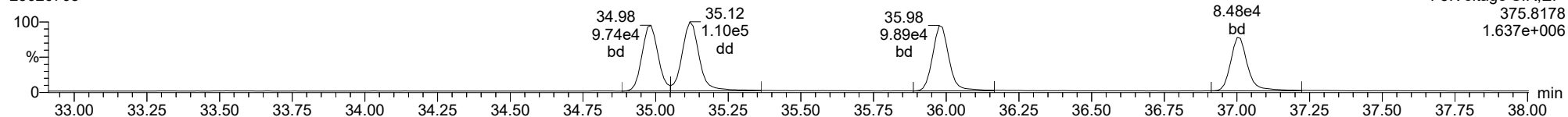
Total-hexafurans

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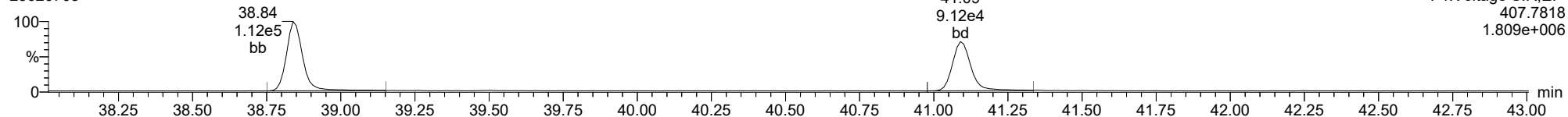
Total-hexafurans

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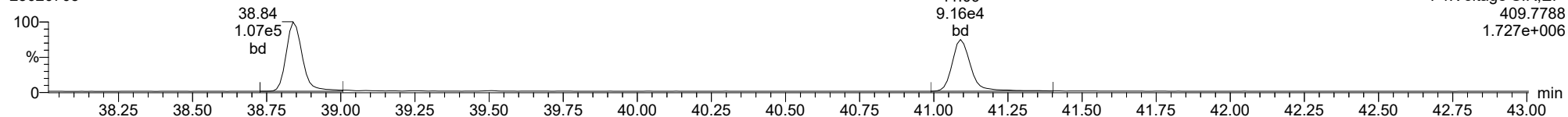
Total-heptafurans

23020705



Total-heptafurans

23020705





STANDARD REFERENCE MATERIAL RECOVERY
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BLA0079-SRM1

Batch: BLA0079

Initial/Final: 10 g / 20 uL

Preparation: EPA 1613

Analyzed: 02/07/2023 12:53

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	0.955	0.157	1.00	EMPC, J	86.0	50 - 150
2,3,7,8-TCDD	1.0500	0.747	0.150	1.00	J	71.2	50 - 150
1,2,3,7,8-PeCDF	1.2300	0.827	0.240	1.00	EMPC, J	67.3	50 - 150
2,3,4,7,8-PeCDF	1.0700	0.682	0.220	1.00	J	63.7	50 - 150
1,2,3,7,8-PeCDD	1.0800	1.14	0.181	1.00	EMPC, B	106	50 - 150
1,2,3,4,7,8-HxCDF	3.0200	2.42	0.280	1.00	B	80.1	50 - 150
1,2,3,6,7,8-HxCDF	1.0900	0.786	0.200	1.00	J, B	72.1	50 - 150
2,3,4,6,7,8-HxCDF	1.8300	1.52	0.170	1.00	B	83.2	50 - 150
1,2,3,7,8,9-HxCDF	0.51100	0.510	0.190	1.00	EMPC, J, B	99.9	50 - 150
1,2,3,4,7,8-HxCDD	1.5900	1.23	0.193	1.00		77.2	50 - 150
1,2,3,6,7,8-HxCDD	3.8800	2.86	0.189	1.00		73.8	50 - 150
1,2,3,7,8,9-HxCDD	3.0400	2.23	0.220	1.00	B	73.5	50 - 150
1,2,3,4,6,7,8-HpCDF	18.700	18.4	0.210	1.00	B	98.2	50 - 150
1,2,3,4,7,8,9-HpCDF	1.6300	1.51	0.240	1.00		92.4	50 - 150
1,2,3,4,6,7,8-HpCDD	90.600	84.4	0.560	2.50	B	93.1	50 - 150
OCDF	58.400	50.7	1.10	2.50	B	86.8	50 - 150
OCDD	811.00	723	4.60	10.0	B	89.1	50 - 150

* Values outside of QC limits

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

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
 Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
 Printed: Wednesday, February 08, 2023 09:29:11 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10

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

ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, 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	25.912	1.001	1.575e3	1.601e3	0.876	0.983	0.770	1504	1124	2.13e4	2.00e4	14.2	17.8	YES	dd	dd	0.477
12378-PeCDF	30.060	1.001	1.499e3	1.177e3	0.845	1.273	1.550	1544	1706	2.62e4	2.26e4	17.0	13.2	YES	bb	bb	0.414
23478-PeCDF	31.385	1.000	1.418e3	8.398e2	0.911	1.688	1.550	1544	1706	2.22e4	1.29e4	14.4	7.6	NO	bb	bb	0.341
123478-HxCDF	35.006	1.000	4.525e3	3.550e3	1.182	1.275	1.240	914	916	6.55e4	5.24e4	71.6	57.2	NO	bd	bd	1.210
234678-HxCDF	36.020	1.000	2.916e3	2.266e3	1.229	1.287	1.240	914	916	3.27e4	2.62e4	35.8	28.6	NO	bb	bb	0.761
123678-HxCDF	35.151	1.001	1.693e3	1.213e3	1.248	1.395	1.240	914	916	2.41e4	1.76e4	26.3	19.2	NO	MM	db	0.393
123789-HxCDF	37.012	1.000	7.691e2	7.763e2	1.187	0.991	1.240	914	916	1.04e4	1.04e4	11.4	11.3	YES	bb	bb	0.255
1234678-HpCDF	38.861	1.000	2.998e4	2.857e4	1.204	1.049	1.050	1016	1143	4.77e5	4.52e5	469.5	395.5	NO	bb	bb	9.178
1234789-HpCDF	41.123	1.001	2.206e3	2.007e3	1.165	1.099	1.050	1016	1143	2.70e4	3.06e4	26.5	26.8	NO	bb	bb	0.753
OCDF	45.376	1.006	5.242e4	6.045e4	1.186	0.867	0.890	840	1194	5.96e5	7.09e5	709.3	593.8	NO	bb	bd	25.341
2378-TCDD	26.547	1.001	1.006e3	1.476e3	1.236	0.681	0.770	1190	987	1.43e4	2.10e4	12.0	21.3	NO	bd	bb	0.374
12378-PeCDD	31.642	1.000	1.841e3	9.923e2	1.087	1.855	1.550	1323	847	2.96e4	1.72e4	22.4	20.3	YES	bb	bb	0.570
123478-HxCDD	36.143	1.001	1.740e3	1.575e3	0.987	1.105	1.240	1337	1565	2.72e4	2.62e4	20.3	16.7	NO	bd	bd	0.614
123678-HxCDD	36.254	1.001	4.740e3	3.607e3	1.021	1.314	1.240	1337	1565	7.54e4	6.22e4	56.4	39.8	NO	dd	db	1.431
123789-HxCDD	36.633	1.011	3.368e3	2.788e3	0.985	1.208	1.240	1337	1565	5.83e4	4.31e4	43.6	27.6	NO	bb	bb	1.117
1234678-HpCDD	40.365	1.000	1.123e5	1.072e5	1.253	1.047	1.050	1743	2180	1.66e6	1.61e6	954.6	740.9	NO	bd	bd	42.191
OCDD	45.138	1.000	6.901e5	8.058e5	1.103	0.857	0.890	1524	1255	8.32e6	9.32e6	5459.5	7425.3	NO	bb	bd	361.326
13C-2378-TCDF	25.882	1.006	3.356e5	4.240e5	1.768	0.791	0.770	2744	1570	5.07e6	6.45e6	1847.3	4106.2	NO	bb	bb	81.059
13C-12378-PeCDF	30.037	1.168	4.707e5	2.951e5	1.527	1.595	1.550	1802	1944	6.68e6	4.33e6	3705.9	2224.5	NO	bd	bb	94.619
13C-23478-PeCDF	31.374	1.220	4.423e5	2.842e5	1.466	1.556	1.550	1802	1944	6.60e6	4.31e6	3660.4	2217.3	NO	bb	bb	93.493
13C-123478-HxCDF	34.995	0.956	1.896e5	3.752e5	1.054	0.505	0.510	1760	1572	2.99e6	5.84e6	1698.0	3715.4	NO	MM	MM	90.957
13C-123678-HxCDF	35.129	0.959	1.996e5	3.930e5	1.080	0.508	0.510	1760	1572	3.07e6	6.06e6	1744.7	3854.9	NO	MM	MM	93.112
13C-234678-HxCDF	36.009	0.983	1.868e5	3.673e5	1.014	0.509	0.510	1760	1572	2.92e6	5.75e6	1658.1	3660.0	NO	bb	bb	92.699
13C-123789-HxCDF	37.012	1.011	1.744e5	3.359e5	0.928	0.519	0.510	1760	1572	3.01e6	5.89e6	1709.9	3745.2	NO	bb	bb	93.313
13C-1234678-HpCDF	38.850	1.061	1.678e5	3.620e5	1.036	0.464	0.440	1257	1906	2.66e6	5.92e6	2113.9	3104.6	NO	bd	bb	86.774
13C-1234789-HpCDF	41.101	1.122	1.486e5	3.315e5	0.905	0.448	0.440	1257	1906	2.12e6	4.69e6	1686.3	2458.5	NO	bd	bb	90.044
13C-1234-TCDD	25.715	0.000	2.336e5	2.964e5	1.000	0.788	0.770	1743	1092	3.58e6	4.52e6	2051.5	4135.7	NO	bb	bb	100.000
13C-2378-TCDD	26.517	1.031	2.364e5	3.008e5	1.103	0.786	0.770	1743	1092	3.52e6	4.51e6	2020.2	4127.5	NO	bb	bb	91.896
13C-12378-PeCDD	31.631	1.230	2.834e5	1.743e5	0.914	1.627	1.550	909	1467	4.10e6	2.57e6	4512.2	1750.0	NO	bb	bb	94.470
13C-123478-HxCDD	36.120	0.986	3.071e5	2.398e5	0.933	1.281	1.240	1412	1457	5.13e6	3.99e6	3632.5	2738.4	NO	bd	bd	99.474
13C-123678-HxCDD	36.232	0.989	3.193e5	2.520e5	0.965	1.267	1.240	1412	1457	5.05e6	4.08e6	3579.1	2802.8	NO	db	db	100.496
13C-1234678-HpCDD	40.354	1.102	2.185e5	1.968e5	0.782	1.110	1.050	1531	1487	3.27e6	3.00e6	2138.4	2019.2	NO	bb	bb	90.122
13C-OCDD	45.120	1.232	3.620e5	3.889e5	0.788	0.931	0.890	1431	1325	4.42e6	4.80e6	3091.7	3621.9	NO	bb	bb	161.658
13C-123789-HxCDD	36.622	0.000	3.268e5	2.625e5	1.000	1.245	1.240	1412	1457	5.24e6	4.20e6	3709.5	2883.1	NO	bb	bb	100.000
37CL-2378-TCDD	26.547	1.032	1.959e5		1.233			995		2.94e6		2950.8			bb		29.961

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

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
 Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
 Printed: Wednesday, February 08, 2023 09:29:11 Pacific Standard Time

ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, 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	22.389	0.865	1.638e2	3.574e2	1.064	0.458	0.770	1504	1124	3.48e3	6.43e3	2.3	5.7	YES	bb	bd	0.064
1289-TCDF					0.858		0.770	1504	1124								
13468-PECDF					1.013		1.550	550	1117								
12389-PECDF					0.844		1.550	1544	1706								
123468-HXCDF	33.357	0.953	4.040e3	3.424e3	1.197	1.180	1.240	914	916	6.36e4	5.09e4	69.6	55.5	NO	bd	bd	1.104
1368-TCDD	23.659	0.892	7.577e2	8.654e2	1.084	0.876	0.770	1190	987	1.23e4	1.41e4	10.4	14.3	NO	bb	bb	0.279
1289-TCDD					0.975		0.770	1190	987								
12479-PECDD					1.837		1.550	1323	847								
12389-PECDD	32.065	1.014	2.238e2	2.657e2	1.252	0.842	1.550	1323	847	4.82e3	4.08e3	3.6	4.8	YES	bb	bb	0.085
124679-HXCDD	34.115	0.944	1.145e4	1.002e4	1.033	1.143	1.240	1337	1565	1.80e5	1.53e5	134.4	98.0	NO	bb	bb	3.801
1234679-HPCDD	39.318	0.974	1.625e5	1.528e5	1.286	1.064	1.050	1743	2180	2.58e6	2.46e6	1478.1	1130.5	NO	bd	bb	59.021
Total-tetrafurans			4.983e3		0.933			1504		7.59e4							1.614
Total-penta1			9.571e3					550		1.29e5							2.191
Total-pentafurans			6.036e3		0.866			1544		7.81e4							1.534
Total-hexafurans			4.516e4		1.208			914		6.67e5							12.126
Total-heptafurans			9.229e4		1.185			1016		1.43e6							29.997
Total-Furans			2.105e5		1.067			1504		2.97e6							72.803
Total-tetradoxins			3.691e3		1.099			1190		6.11e4							1.408
Total-pentadoxins			3.722e3		1.392			1323		4.33e4							0.938
Total-hexadoxins			3.810e4		1.007			1337		5.28e5							12.350
Total-heptadoxins			2.747e5		1.269			1743		4.24e6							101.212
Total-Dioxins			1.010e6		1.165			1190		1.32e7							477.234
Total-TEQ			1.221e6					1190		1.62e7							550.037
FUNCTION1 PFK			1.620e7					472546		4.92e7							
FUNCTION2 PFK			1.078e6					339245		2.02e6							0.000
FUNCTION3 PFK			5.611e6					246030		2.32e7							0.000
FUNCTION4 PFK			1.788e7					208675		1.33e7							
FUNCTION5 PFK			8.852e6					143620		1.10e8							
FUNCTION1 HXCD...			9.275e2					841		1.76e4							0.000
FUNCTION1 HPCD...			3.274e3					675		5.55e4							0.000
FUNCTION2 HPCD...			7.339e2					1207		1.58e4							0.000
FUNCTION3 OCDPE			5.705e2					694		1.06e4							0.000
FUNCTION4 NCDPE			8.543e3					777		1.45e5							0.000
FUNCTION5 DCDPE			1.044e2					627		1.27e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:29:11 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10**Calibration: T:\Autospec\Curves\230201CIH.cdb 03 Feb 2023 10:33:40****ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk****TF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	26.12	1.196e3	1.375e3	0.933	0.87	0.77	8.8	YES	NO	db	dd	0.363
2	Total-tetrafurans	26.05	6.884e2	9.342e2	0.933	0.74	0.77	6.0	YES	NO	dd	dd	0.229
3	Total-tetrafurans	24.99	1.526e3	2.072e3	0.933	0.74	0.77	18.1	YES	NO	bb	bb	0.508
4	Total-tetrafurans	24.81	1.063e3	1.396e3	0.933	0.76	0.77	10.8	YES	NO	db	db	0.347
5	Total-tetrafurans	24.31	5.100e2	6.741e2	0.933	0.76	0.77	6.7	YES	NO	db	dd	0.167

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.33	9.571e3	5.812e3		1.65	1.55	235.3	YES	NO	db	MM	2.191

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.39	1.418e3	8.398e2	0.911	1.69	1.55	14.4	YES	NO	bb	bb	0.341
2	Total-pentafurans	31.25	8.143e2	5.525e2	0.866	1.47	1.55	8.9	YES	NO	db	db	0.211
3	Total-pentafurans	28.79	1.711e3	1.227e3	0.866	1.39	1.55	9.6	YES	NO	dd	dd	0.454
4	Total-pentafurans	28.62	2.093e3	1.315e3	0.866	1.59	1.55	17.7	YES	NO	bd	bd	0.527

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.56	1.356e4	1.136e4	1.208	1.19	1.24	217.3	YES	NO	db	db	3.712
2	123468-HXCDF	33.36	4.040e3	3.424e3	1.197	1.18	1.24	69.6	YES	NO	bd	bd	1.104
3	234678-HxCDF	36.02	2.916e3	2.266e3	1.229	1.29	1.24	35.8	YES	NO	bb	bb	0.761
4	123678-HxCDF	35.15	1.693e3	1.213e3	1.248	1.40	1.24	26.3	YES	NO	MM	db	0.393
5	123478-HxCDF	35.01	4.525e3	3.550e3	1.182	1.27	1.24	71.6	YES	NO	bd	bd	1.210
6	Total-hexafurans	34.86	6.292e2	4.975e2	1.208	1.26	1.24	12.1	YES	NO	bb	bb	0.168
7	Total-hexafurans	34.39	1.745e4	1.396e4	1.208	1.25	1.24	290.5	YES	NO	bb	bb	4.679
8	Total-hexafurans	34.09	3.483e2	3.155e2	1.208	1.10	1.24	6.1	YES	NO	bb	bb	0.099

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:29:11 Pacific Standard Time

ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, 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	39.53	5.958e4	5.938e4	1.185	1.00	1.05	897.9	YES	NO	bd	bb	19.884
2	Total-heptafurans	39.28	5.205e2	5.717e2	1.185	0.91	1.05	9.4	YES	NO	bb	bb	0.183
3	1234678-HpCDF	38.86	2.998e4	2.857e4	1.204	1.05	1.05	469.5	YES	NO	bb	bb	9.178
4	1234789-HpCDF	41.12	2.206e3	2.007e3	1.165	1.10	1.05	26.5	YES	NO	bb	bb	0.753

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	26.12	1.196e3	1.375e3	0.933	0.87	0.77	8.8	YES	NO	db	dd	0.363
2	Total-tetrafurans	26.05	6.884e2	9.342e2	0.933	0.74	0.77	6.0	YES	NO	dd	dd	0.229
3	Total-tetrafurans	24.99	1.526e3	2.072e3	0.933	0.74	0.77	18.1	YES	NO	bb	bb	0.508
4	Total-tetrafurans	24.81	1.063e3	1.396e3	0.933	0.76	0.77	10.8	YES	NO	db	db	0.347
5	Total-tetrafurans	24.31	5.100e2	6.741e2	0.933	0.76	0.77	6.7	YES	NO	db	dd	0.167
6	23478-PeCDF	31.39	1.418e3	8.398e2	0.911	1.69	1.55	14.4	YES	NO	bb	bb	0.341
7	Total-pentafurans	31.25	8.143e2	5.525e2	0.866	1.47	1.55	8.9	YES	NO	db	db	0.211
8	Total-pentafurans	28.79	1.711e3	1.227e3	0.866	1.39	1.55	9.6	YES	NO	dd	dd	0.454
9	Total-pentafurans	28.62	2.093e3	1.315e3	0.866	1.59	1.55	17.7	YES	NO	bd	bd	0.527
10	Total-hexafurans	33.56	1.356e4	1.136e4	1.208	1.19	1.24	217.3	YES	NO	db	db	3.712
11	123468-HxCDF	33.36	4.040e3	3.424e3	1.197	1.18	1.24	69.6	YES	NO	bd	bd	1.104
12	234678-HxCDF	36.02	2.916e3	2.266e3	1.229	1.29	1.24	35.8	YES	NO	bb	bb	0.761
13	123678-HxCDF	35.15	1.693e3	1.213e3	1.248	1.40	1.24	26.3	YES	NO	MM	db	0.393
14	123478-HxCDF	35.01	4.525e3	3.550e3	1.182	1.27	1.24	71.6	YES	NO	bd	bd	1.210
15	Total-hexafurans	34.86	6.292e2	4.975e2	1.208	1.26	1.24	12.1	YES	NO	bb	bb	0.168
16	Total-hexafurans	34.39	1.745e4	1.396e4	1.208	1.25	1.24	290.5	YES	NO	bb	bb	4.679
17	Total-hexafurans	34.09	3.483e2	3.155e2	1.208	1.10	1.24	6.1	YES	NO	bb	bb	0.099
18	Total-heptafurans	39.53	5.958e4	5.938e4	1.185	1.00	1.05	897.9	YES	NO	bd	bb	19.884
19	Total-heptafurans	39.28	5.205e2	5.717e2	1.185	0.91	1.05	9.4	YES	NO	bb	bb	0.183
20	1234678-HpCDF	38.86	2.998e4	2.857e4	1.204	1.05	1.05	469.5	YES	NO	bb	bb	9.178
21	OCDF	45.38	5.242e4	6.045e4	1.186	0.87	0.89	709.3	YES	NO	bb	bd	25.341
22	1234789-HpCDF	41.12	2.206e3	2.007e3	1.165	1.10	1.05	26.5	YES	NO	bb	bb	0.753
23	Total-penta1	27.33	9.571e3	5.812e3		1.65	1.55	235.3	YES	NO	db	MM	2.191

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.55	1.006e3	1.476e3	1.236	0.68	0.77	12.0	YES	NO	bd	bb	0.374
2	Total-tetradoxins	25.73	6.567e2	7.634e2	1.099	0.86	0.77	10.4	YES	NO	bb	bb	0.241
3	Total-tetradoxins	25.16	6.049e2	7.678e2	1.099	0.79	0.77	8.9	YES	NO	bb	bb	0.233
4	Total-tetradoxins	24.67	6.660e2	9.984e2	1.099	0.67	0.77	9.7	YES	NO	bb	bb	0.282
5	1368-TCDD	23.66	7.577e2	8.654e2	1.084	0.88	0.77	10.4	YES	NO	bb	bb	0.279

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadoxins	30.27	1.283e3	8.781e2	1.392	1.46	1.55	13.3	YES	NO	bd	bb	0.339
2	Total-pentadoxins	28.98	2.439e3	1.373e3	1.392	1.78	1.55	19.4	YES	NO	db	bb	0.598

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadoxins	35.36	1.638e3	1.297e3	1.007	1.26	1.24	17.9	YES	NO	db	db	0.522
2	Total-hexadoxins	35.25	1.436e4	1.163e4	1.007	1.23	1.24	112.7	YES	NO	bd	bd	4.619
3	124679-HxCDD	34.12	1.145e4	1.002e4	1.033	1.14	1.24	134.4	YES	NO	bb	bb	3.801
4	123789-HxCDD	36.63	3.368e3	2.788e3	0.985	1.21	1.24	43.6	YES	NO	bb	bb	1.117
5	Total-hexadoxins	36.42	7.987e2	5.873e2	1.007	1.36	1.24	9.4	YES	NO	db	bb	0.246
6	123678-HxCDD	36.25	4.740e3	3.607e3	1.021	1.31	1.24	56.4	YES	NO	dd	db	1.431
7	123478-HxCDD	36.14	1.740e3	1.575e3	0.987	1.10	1.24	20.3	YES	NO	bd	bd	0.614

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.37	1.123e5	1.072e5	1.253	1.05	1.05	954.6	YES	NO	bd	bd	42.191
2	1234679-HPCDD	39.32	1.625e5	1.528e5	1.286	1.06	1.05	1478.1	YES	NO	bd	bb	59.021

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, 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	26.55	1.006e3	1.476e3	1.236	0.68	0.77	12.0	YES	NO	bd	bb	0.374
2	Total-tetradoxins	25.73	6.567e2	7.634e2	1.099	0.86	0.77	10.4	YES	NO	bb	bb	0.241
3	Total-tetradoxins	25.16	6.049e2	7.678e2	1.099	0.79	0.77	8.9	YES	NO	bb	bb	0.233
4	Total-tetradoxins	24.67	6.660e2	9.984e2	1.099	0.67	0.77	9.7	YES	NO	bb	bb	0.282
5	1368-TCDD	23.66	7.577e2	8.654e2	1.084	0.88	0.77	10.4	YES	NO	bb	bb	0.279
6	Total-pentadoxins	30.27	1.283e3	8.781e2	1.392	1.46	1.55	13.3	YES	NO	bd	bb	0.339
7	Total-pentadoxins	28.98	2.439e3	1.373e3	1.392	1.78	1.55	19.4	YES	NO	db	bb	0.598
8	Total-hexadoxins	35.36	1.638e3	1.297e3	1.007	1.26	1.24	17.9	YES	NO	db	db	0.522
9	Total-hexadoxins	35.25	1.436e4	1.163e4	1.007	1.23	1.24	112.7	YES	NO	bd	bd	4.619
10	124679-HxCDD	34.12	1.145e4	1.002e4	1.033	1.14	1.24	134.4	YES	NO	bb	bb	3.801
11	123789-HxCDD	36.63	3.368e3	2.788e3	0.985	1.21	1.24	43.6	YES	NO	bb	bb	1.117
12	Total-hexadoxins	36.42	7.987e2	5.873e2	1.007	1.36	1.24	9.4	YES	NO	db	bb	0.246
13	123678-HxCDD	36.25	4.740e3	3.607e3	1.021	1.31	1.24	56.4	YES	NO	dd	db	1.431
14	123478-HxCDD	36.14	1.740e3	1.575e3	0.987	1.10	1.24	20.3	YES	NO	bd	bd	0.614
15	1234678-HpCDD	40.37	1.123e5	1.072e5	1.253	1.05	1.05	954.6	YES	NO	bd	bd	42.191
16	1234679-HPCDD	39.32	1.625e5	1.528e5	1.286	1.06	1.05	1478.1	YES	NO	bd	bb	59.021
17	OCDD	45.14	6.901e5	8.058e5	1.103	0.86	0.89	5459.5	YES	NO	bb	bd	361.326

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:29:11 Pacific Standard Time

ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, 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	Total-tetrafurans	26.12	1.196e3	1.375e3	0.933	0.87	0.77	8.8	YES	NO	db	dd	0.363
2	Total-tetrafurans	26.05	6.884e2	9.342e2	0.933	0.74	0.77	6.0	YES	NO	dd	dd	0.229
3	Total-tetrafurans	24.99	1.526e3	2.072e3	0.933	0.74	0.77	18.1	YES	NO	bb	bb	0.508
4	Total-tetrafurans	24.81	1.063e3	1.396e3	0.933	0.76	0.77	10.8	YES	NO	db	db	0.347
5	Total-tetrafurans	24.31	5.100e2	6.741e2	0.933	0.76	0.77	6.7	YES	NO	db	dd	0.167
6	23478-PeCDF	31.39	1.418e3	8.398e2	0.911	1.69	1.55	14.4	YES	NO	bb	bb	0.341
7	Total-pentafurans	31.25	8.143e2	5.525e2	0.866	1.47	1.55	8.9	YES	NO	db	db	0.211
8	Total-pentafurans	28.79	1.711e3	1.227e3	0.866	1.39	1.55	9.6	YES	NO	dd	dd	0.454
9	Total-pentafurans	28.62	2.093e3	1.315e3	0.866	1.59	1.55	17.7	YES	NO	bd	bd	0.527
10	Total-hexafurans	33.56	1.356e4	1.136e4	1.208	1.19	1.24	217.3	YES	NO	db	db	3.712
11	123468-HXCDF	33.36	4.040e3	3.424e3	1.197	1.18	1.24	69.6	YES	NO	bd	bd	1.104
12	234678-HxCDF	36.02	2.916e3	2.266e3	1.229	1.29	1.24	35.8	YES	NO	bb	bb	0.761
13	123678-HxCDF	35.15	1.693e3	1.213e3	1.248	1.40	1.24	26.3	YES	NO	MM	db	0.393
14	123478-HxCDF	35.01	4.525e3	3.550e3	1.182	1.27	1.24	71.6	YES	NO	bd	bd	1.210
15	Total-hexafurans	34.86	6.292e2	4.975e2	1.208	1.26	1.24	12.1	YES	NO	bb	bb	0.168
16	Total-hexafurans	34.39	1.745e4	1.396e4	1.208	1.25	1.24	290.5	YES	NO	bb	bb	4.679
17	Total-hexafurans	34.09	3.483e2	3.155e2	1.208	1.10	1.24	6.1	YES	NO	bb	bb	0.099
18	Total-heptafurans	39.53	5.958e4	5.938e4	1.185	1.00	1.05	897.9	YES	NO	bd	bb	19.884
19	Total-heptafurans	39.28	5.205e2	5.717e2	1.185	0.91	1.05	9.4	YES	NO	bb	bb	0.183
20	1234678-HpCDF	38.86	2.998e4	2.857e4	1.204	1.05	1.05	469.5	YES	NO	bb	bb	9.178
21	OCDF	45.38	5.242e4	6.045e4	1.186	0.87	0.89	709.3	YES	NO	bb	bd	25.341
22	1234789-HpCDF	41.12	2.206e3	2.007e3	1.165	1.10	1.05	26.5	YES	NO	bb	bb	0.753
23	Total-penta1	27.33	9.571e3	5.812e3		1.65	1.55	235.3	YES	NO	db	MM	2.191
24	2378-TCDD	26.55	1.006e3	1.476e3	1.236	0.68	0.77	12.0	YES	NO	bd	bb	0.374
25	Total-tetradioxins	25.73	6.567e2	7.634e2	1.099	0.86	0.77	10.4	YES	NO	bb	bb	0.241
26	Total-tetradioxins	25.16	6.049e2	7.678e2	1.099	0.79	0.77	8.9	YES	NO	bb	bb	0.233
27	Total-tetradioxins	24.67	6.660e2	9.984e2	1.099	0.67	0.77	9.7	YES	NO	bb	bb	0.282
28	1368-TCDD	23.66	7.577e2	8.654e2	1.084	0.88	0.77	10.4	YES	NO	bb	bb	0.279
29	Total-pentadioxins	30.27	1.283e3	8.781e2	1.392	1.46	1.55	13.3	YES	NO	bd	bb	0.339
30	Total-pentadioxins	28.98	2.439e3	1.373e3	1.392	1.78	1.55	19.4	YES	NO	db	bb	0.598
31	Total-hexadioxins	35.36	1.638e3	1.297e3	1.007	1.26	1.24	17.9	YES	NO	db	db	0.522
32	Total-hexadioxins	35.25	1.436e4	1.163e4	1.007	1.23	1.24	112.7	YES	NO	bd	bd	4.619
33	124679-HXCDD	34.12	1.145e4	1.002e4	1.033	1.14	1.24	134.4	YES	NO	bb	bb	3.801
34	123789-HxCDD	36.63	3.368e3	2.788e3	0.985	1.21	1.24	43.6	YES	NO	bb	bb	1.117
35	Total-hexadioxins	36.42	7.987e2	5.873e2	1.007	1.36	1.24	9.4	YES	NO	db	bb	0.246
36	123678-HxCDD	36.25	4.740e3	3.607e3	1.021	1.31	1.24	56.4	YES	NO	dd	db	1.431
37	123478-HxCDD	36.14	1.740e3	1.575e3	0.987	1.10	1.24	20.3	YES	NO	bd	bd	0.614

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, 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
38	1234678-HpCDD	40.37	1.123e5	1.072e5	1.253	1.05	1.05	954.6	YES	NO	bd	bd	42.191
39	1234679-HPCDD	39.32	1.625e5	1.528e5	1.286	1.06	1.05	1478.1	YES	NO	bd	bb	59.021
40	OCDD	45.14	6.901e5	8.058e5	1.103	0.86	0.89	5459.5	YES	NO	bb	bd	361.326

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.10	7.728e5					20.7	YES		db		
2	FUNCTION1 PFK	21.89	8.581e6					27.9	YES		bd		
3	FUNCTION1 PFK	21.38	3.355e6					32.3	YES		bb		
4	FUNCTION1 PFK	27.41	3.098e5					3.7	YES		bb		
5	FUNCTION1 PFK	24.05	1.102e6					2.8	NO		bb		
6	FUNCTION1 PFK	23.45	7.102e5					5.4	YES		bb		
7	FUNCTION1 PFK	22.37	1.374e6					11.3	YES		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.50	3.709e4					3.3	YES		bb		0.000
2	FUNCTION2 PFK	28.59	1.041e6					2.7	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	37.35	6.603e5					16.0	YES		db		0.000
2	FUNCTION3 PFK	37.19	1.645e6					25.7	YES		bd		0.000
3	FUNCTION3 PFK	36.87	2.694e6					35.8	YES		bb		0.000
4	FUNCTION3 PFK	36.10	1.348e5					5.5	YES		bb		0.000
5	FUNCTION3 PFK	35.90	4.563e5					8.6	YES		bb		0.000
6	FUNCTION3 PFK	35.33	1.998e4					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	38.66	1.788e7					64.0	YES		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, 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	44.20	1.598e5					25.0	YES		dd		
2	FUNCTION5 PFK	44.16	1.386e5					27.1	YES		dd		
3	FUNCTION5 PFK	44.09	4.566e5					29.9	YES		dd		
4	FUNCTION5 PFK	44.00	5.549e5					32.4	YES		dd		
5	FUNCTION5 PFK	43.89	2.276e5					35.6	YES		dd		
6	FUNCTION5 PFK	43.72	1.516e6					41.2	YES		dd		
7	FUNCTION5 PFK	43.56	3.555e5					46.2	YES		dd		
8	FUNCTION5 PFK	43.54	2.455e5					47.0	YES		dd		
9	FUNCTION5 PFK	43.47	4.367e5					48.2	YES		dd		
10	FUNCTION5 PFK	43.44	2.576e5					49.2	YES		dd		
11	FUNCTION5 PFK	43.39	3.285e5					50.5	YES		dd		
12	FUNCTION5 PFK	43.28	1.491e6					54.5	YES		dd		
13	FUNCTION5 PFK	43.16	2.961e5					57.1	YES		dd		
14	FUNCTION5 PFK	43.12	2.994e5					57.5	YES		dd		
15	FUNCTION5 PFK	43.06	7.026e5					60.4	YES		bd		
16	FUNCTION5 PFK	45.80	2.200e3					0.7	NO		bb		
17	FUNCTION5 PFK	45.69	2.145e3					0.7	NO		bb		
18	FUNCTION5 PFK	45.55	4.685e3					1.4	NO		bb		
19	FUNCTION5 PFK	45.42	7.165e3					2.0	NO		db		
20	FUNCTION5 PFK	45.37	1.003e4					2.1	NO		bd		
21	FUNCTION5 PFK	45.28	6.259e3					1.4	NO		bb		
22	FUNCTION5 PFK	45.18	4.679e2					0.4	NO		bb		
23	FUNCTION5 PFK	45.06	4.958e3					1.1	NO		bb		
24	FUNCTION5 PFK	44.94	8.155e3					1.8	NO		db		
25	FUNCTION5 PFK	44.91	1.943e4					1.9	NO		dd		
26	FUNCTION5 PFK	44.83	2.067e4					4.8	YES		dd		
27	FUNCTION5 PFK	44.76	9.950e4					7.7	YES		dd		
28	FUNCTION5 PFK	44.68	7.907e4					11.0	YES		dd		
29	FUNCTION5 PFK	44.59	1.602e5					13.6	YES		dd		
30	FUNCTION5 PFK	44.51	2.419e5					16.4	YES		dd		
31	FUNCTION5 PFK	44.31	6.598e5					22.1	YES		dd		
32	FUNCTION5 PFK	46.47	9.260e3					1.3	NO		bb		
33	FUNCTION5 PFK	46.37	3.456e3					1.0	NO		bb		
34	FUNCTION5 PFK	46.32	3.271e3					1.1	NO		db		
35	FUNCTION5 PFK	46.28	1.380e4					2.0	NO		bd		
36	FUNCTION5 PFK	46.21	7.938e3					2.1	NO		db		
37	FUNCTION5 PFK	46.16	8.543e3					2.1	NO		bd		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, 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	46.02	2.847e3					1.0	NO		bb		
39	FUNCTION5 PFK	45.97	1.831e3					0.7	NO		bb		
40	FUNCTION5 PFK	45.93	7.230e3					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 HXCD...	27.62	1.446e2					4.1	YES		bb		0.000
2	FUNCTION1 HXCD...	26.05	4.245e2					8.9	YES		bb		0.000
3	FUNCTION1 HXCD...	25.50	8.313e1					1.6	NO		db		0.000
4	FUNCTION1 HXCD...	25.31	7.282e1					1.7	NO		bd		0.000
5	FUNCTION1 HXCD...	23.51	1.286e2					3.2	YES		bb		0.000
6	FUNCTION1 HXCD...	23.08	7.378e1					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	FUNCTION1 HPCD...	23.51	4.051e2					10.1	YES		bb		0.000
2	FUNCTION1 HPCD...	23.19	8.616e1					2.8	NO		bb		0.000
3	FUNCTION1 HPCD...	22.19	2.619e3					65.1	YES		bb		0.000
4	FUNCTION1 HPCD...	21.41	1.643e2					4.3	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...	31.63	8.847e1					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	30.97	7.777e1					1.4	NO		bb		0.000
3	FUNCTION2 HPCD...	30.84	9.909e1					1.6	NO		bb		0.000
4	FUNCTION2 HPCD...	30.32	1.205e2					2.3	NO		db		0.000
5	FUNCTION2 HPCD...	30.22	1.091e2					1.6	NO		dd		0.000
6	FUNCTION2 HPCD...	30.13	7.303e1					1.9	NO		bd		0.000
7	FUNCTION2 HPCD...	29.11	7.635e1					1.8	NO		db		0.000
8	FUNCTION2 HPCD...	28.99	8.965e1					0.9	NO		bd		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	33.71	8.997e1					3.0	NO		bd		0.000
2	FUNCTION3 OCDPE	36.61	8.746e1					2.9	NO		bb		0.000
3	FUNCTION3 OCDPE	34.49	1.070e2					2.4	NO		db		0.000
4	FUNCTION3 OCDPE	34.43	7.270e1					2.0	NO		dd		0.000
5	FUNCTION3 OCDPE	34.32	9.411e1					2.4	NO		bd		0.000
6	FUNCTION3 OCDPE	33.85	1.193e2					2.6	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	40.33	1.812e2					4.6	YES		bb		0.000
2	FUNCTION4 NCDPE	38.63	8.272e1					3.4	YES		db		0.000
3	FUNCTION4 NCDPE	38.52	8.279e3					178.7	YES		bd		0.000

ETHERS6

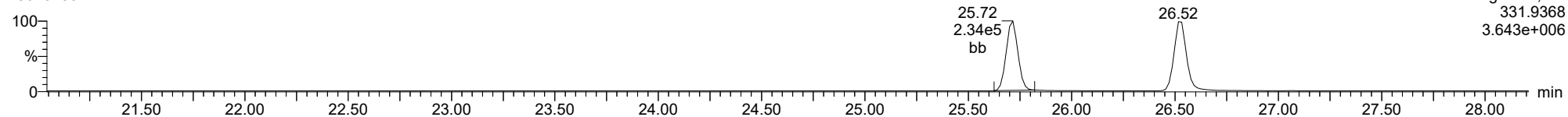
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.17	1.044e2					2.0	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: BLA0079-SRM1, **Name:** 23020706, **Date:** 07-Feb-2023, **Time:** 12:53:21, **Conditions:** AUTOSPEC01, **User:** pk

13C-1234-TCDD

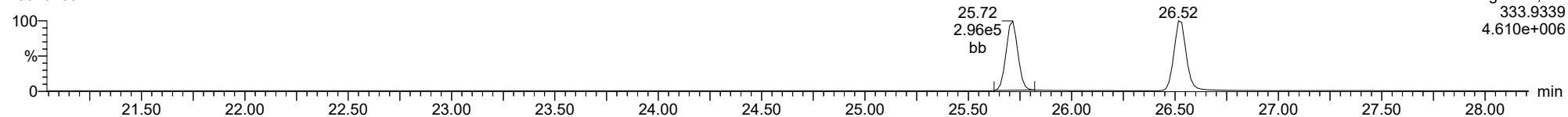
23020706



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3.643e+006

13C-1234-TCDD

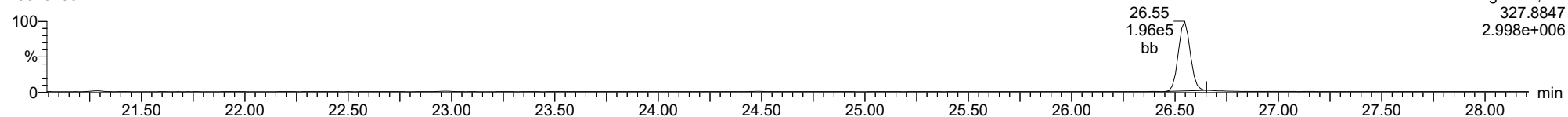
23020706



F1:Voltage SIR,El+
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4.610e+006

37CL-2378-TCDD

23020706

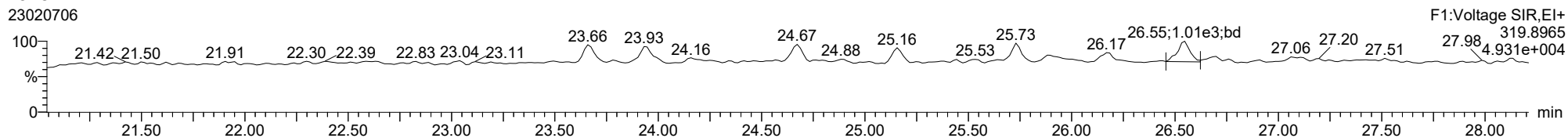


F1:Voltage SIR,El+
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2.998e+006

ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

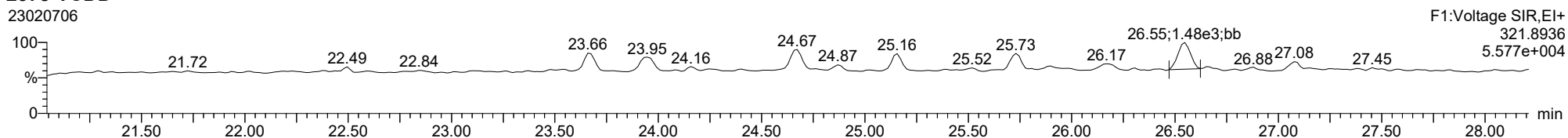
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23020706



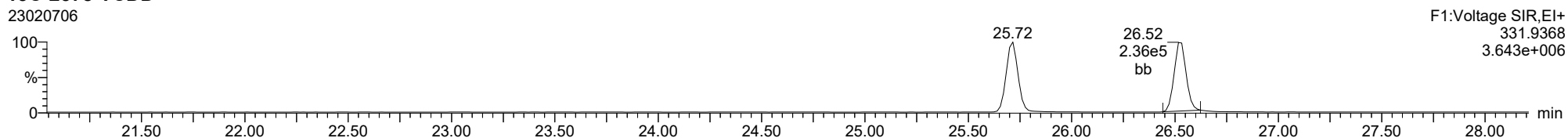
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23020706



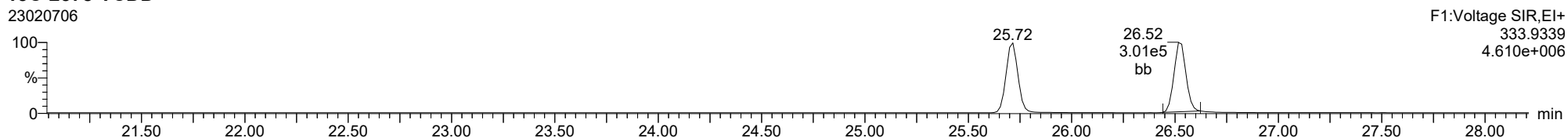
13C-2378-TCDD

23020706



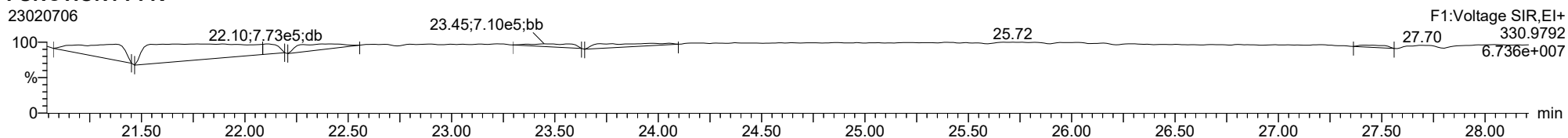
13C-2378-TCDD

23020706



FUNCTION1 PFK

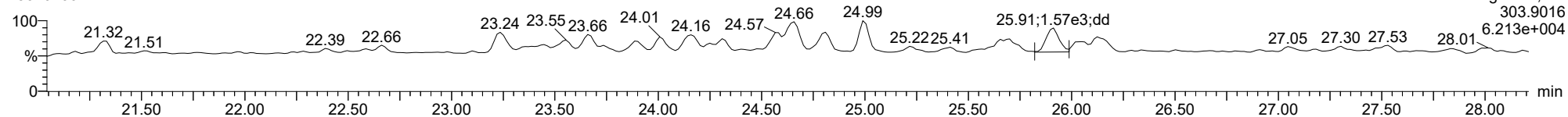
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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

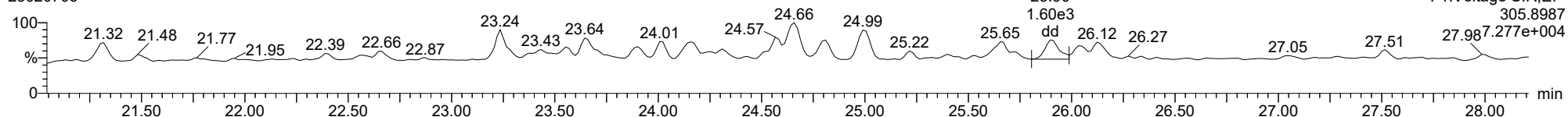
2378-TCDF

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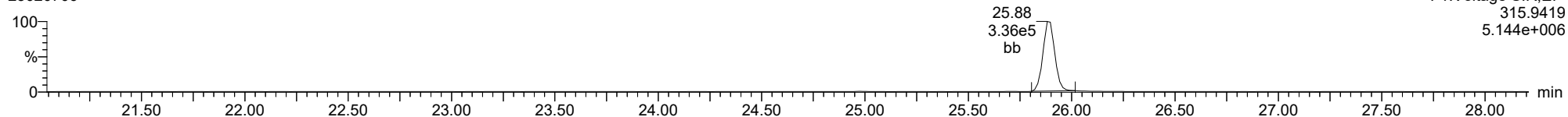
2378-TCDF

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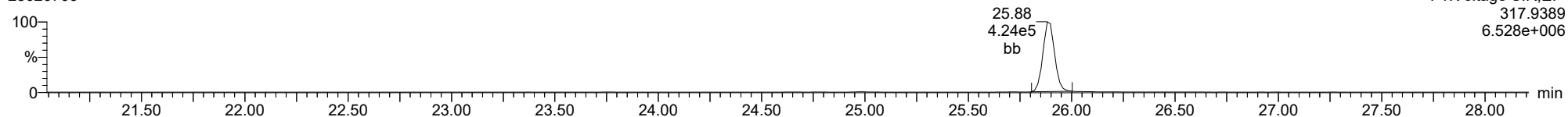
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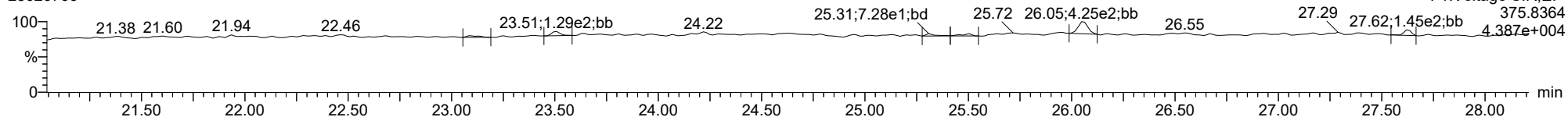
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FUNCTION1 HXCDPE

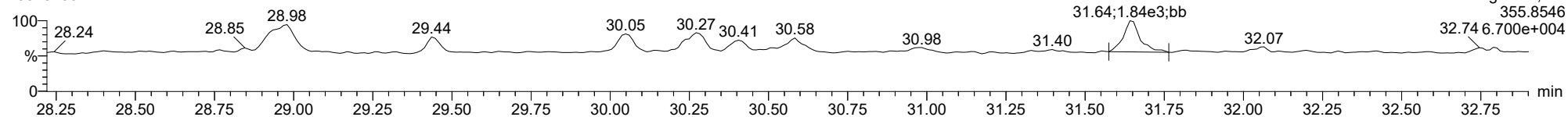
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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

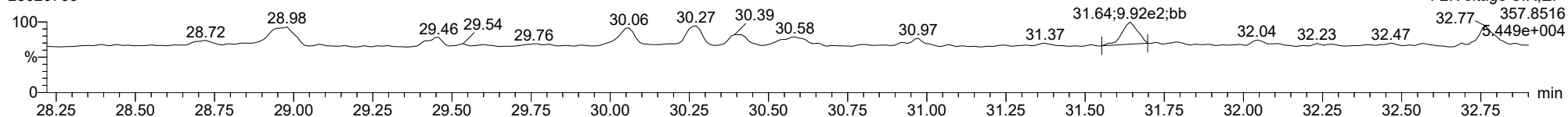
12378-PeCDD

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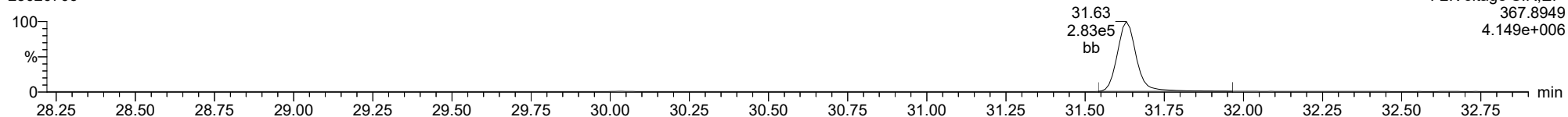
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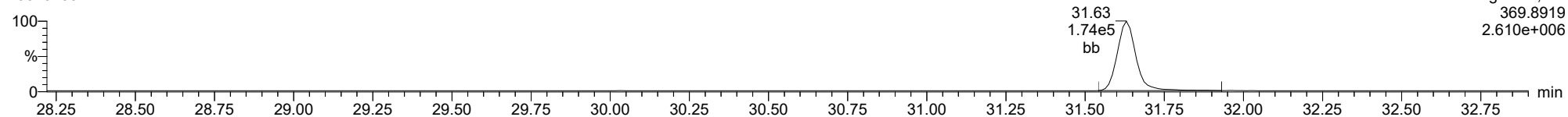
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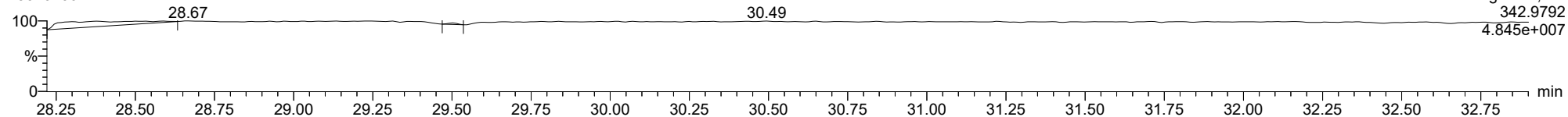
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FUNCTION2 PFK

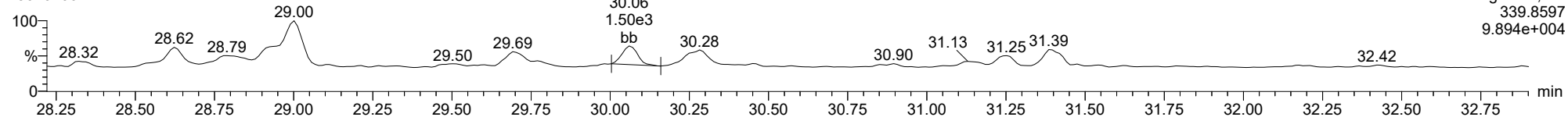
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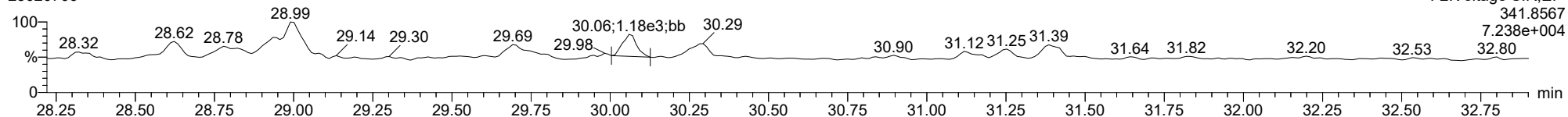
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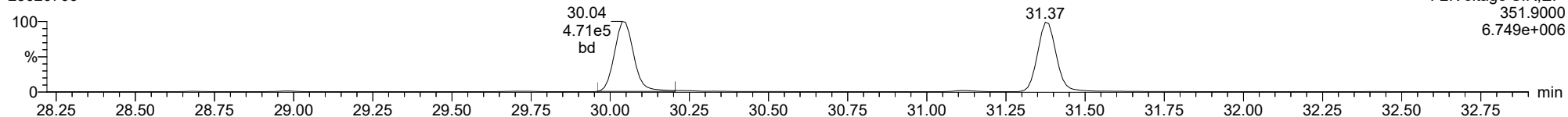
12378-PeCDF

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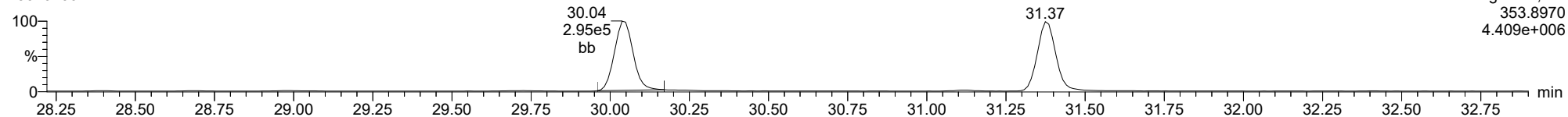
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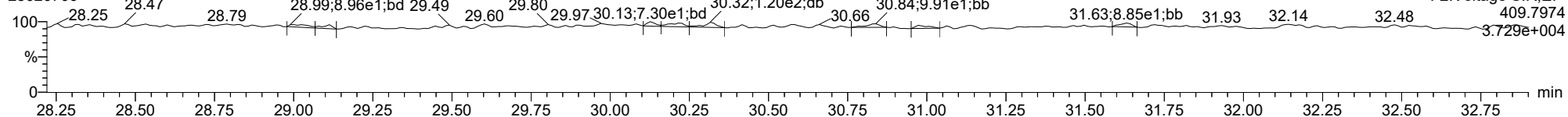
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FUNCTION2 HPCDPE

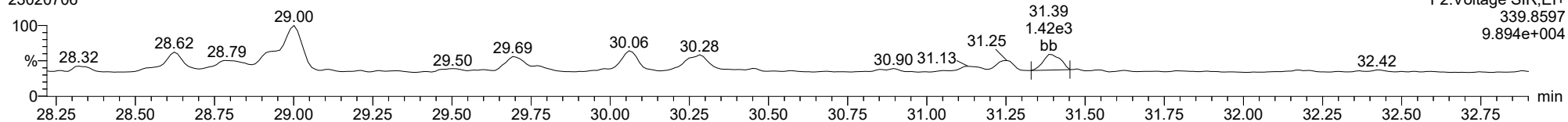
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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

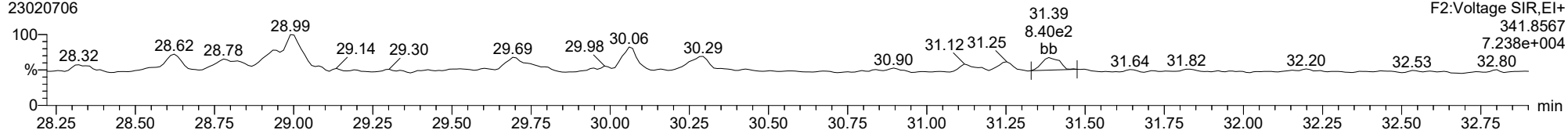
23478-PeCDF

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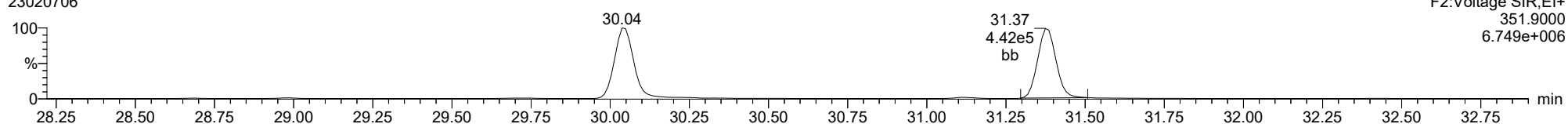
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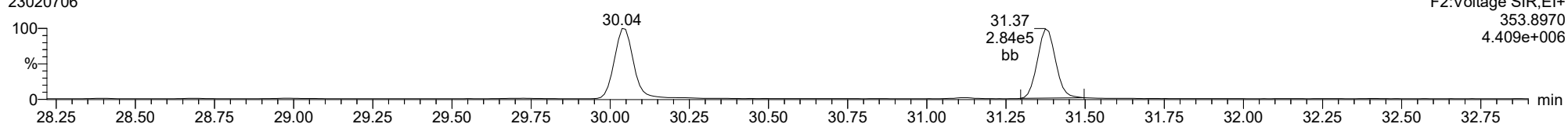
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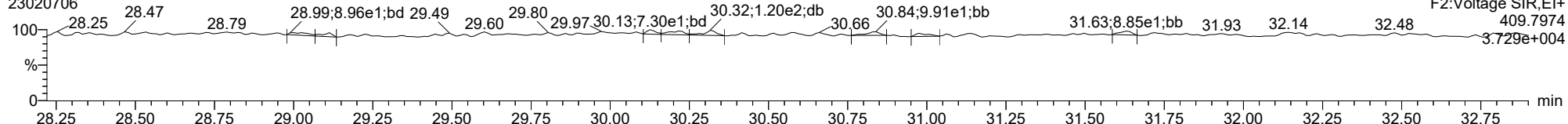
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FUNCTION2 HPCDPE

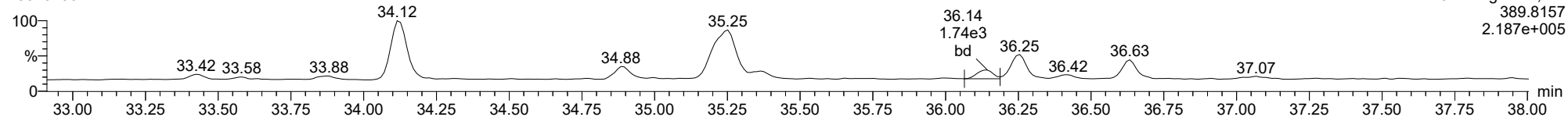
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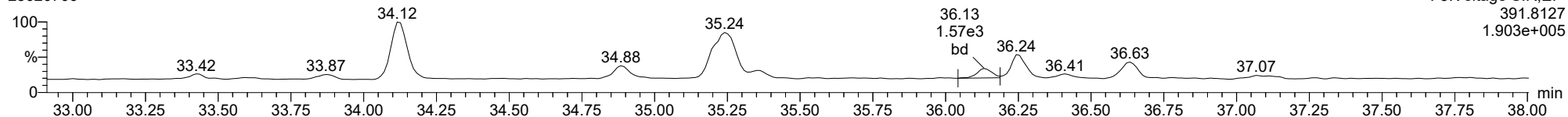
123478-HxCDD

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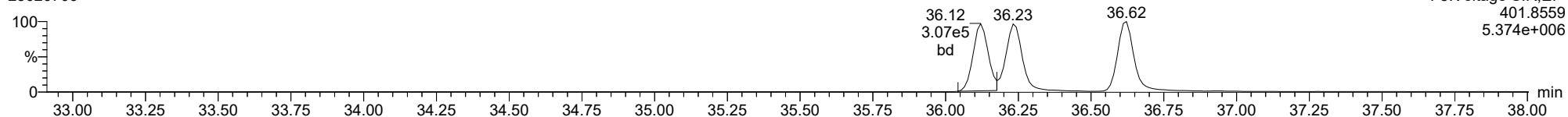
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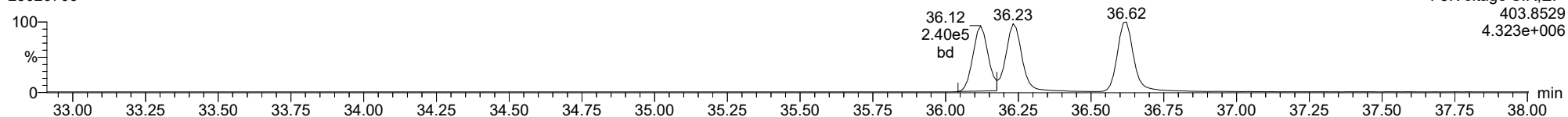
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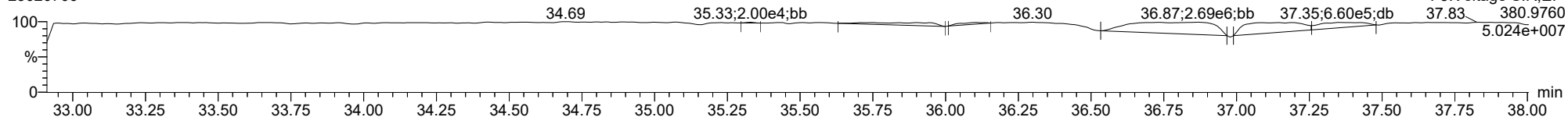
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FUNCTION3 PFK

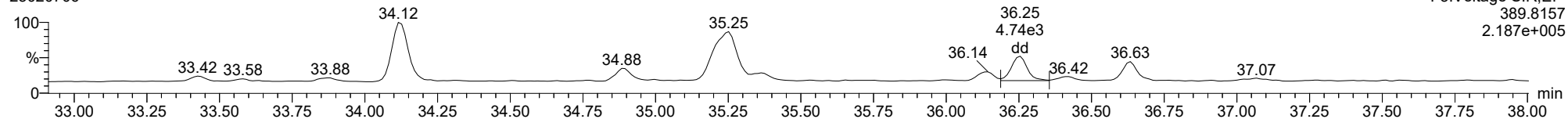
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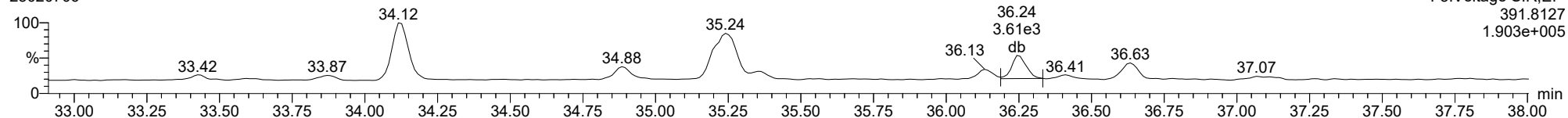
123678-HxCDD

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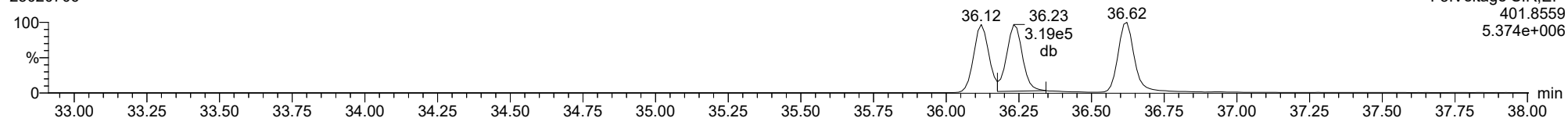
123678-HxCDD

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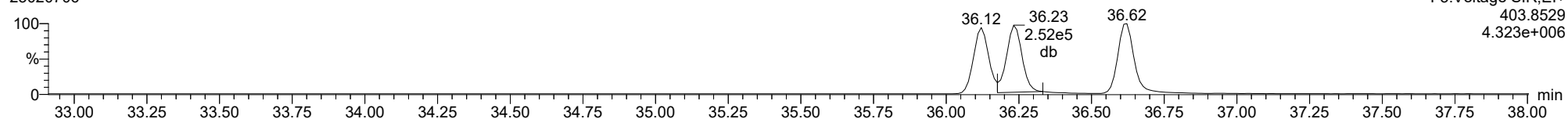
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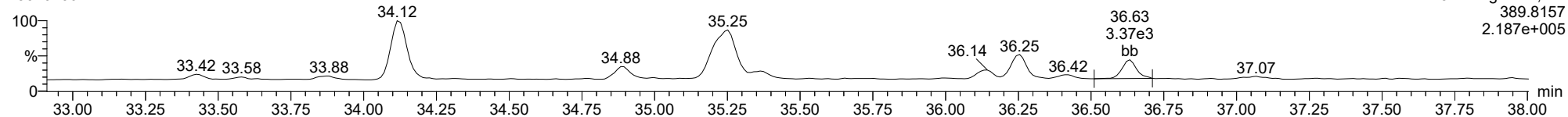
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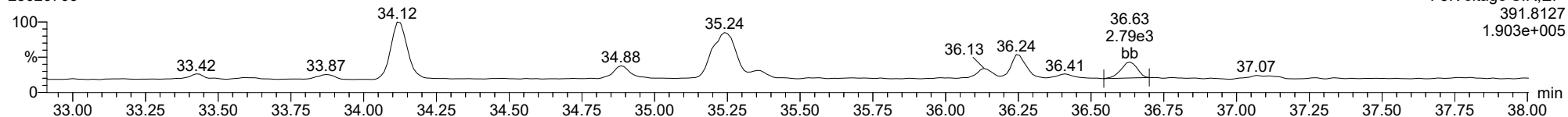
123789-HxCDD

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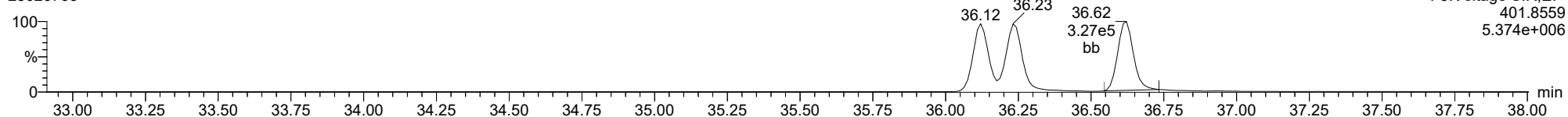
123789-HxCDD

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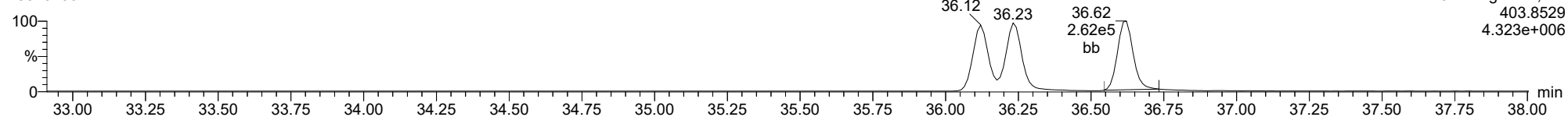
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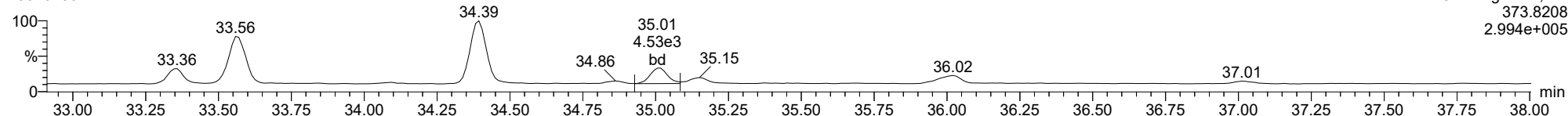
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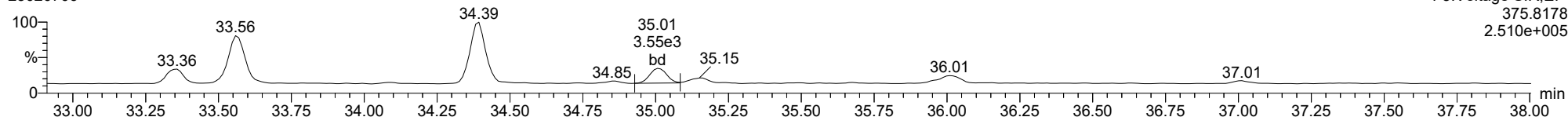
123478-HxCDF

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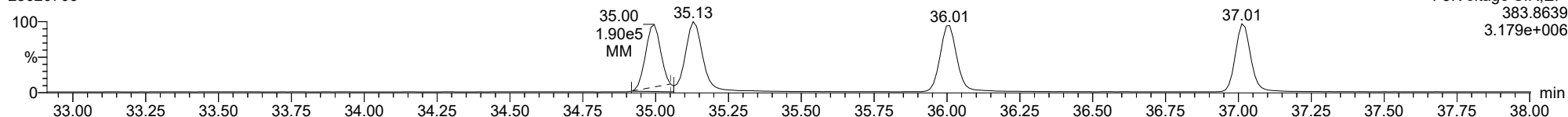
123478-HxCDF

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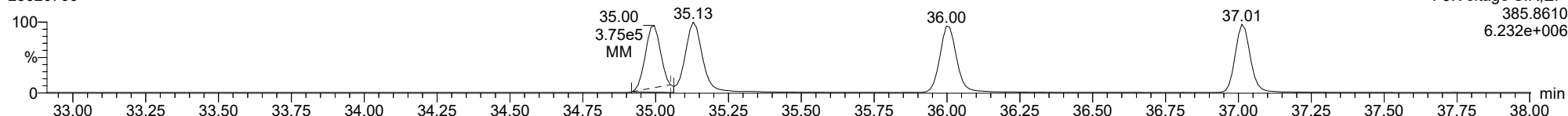
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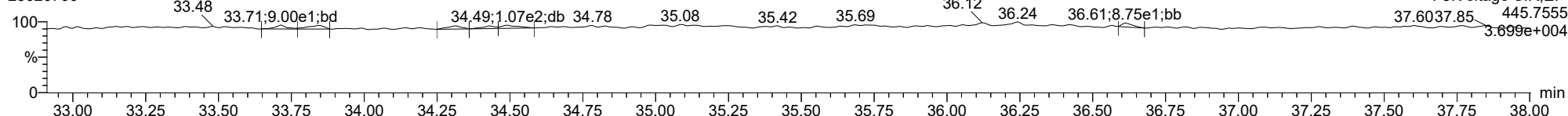
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23020706



FUNCTION3 OCDPE

23020706

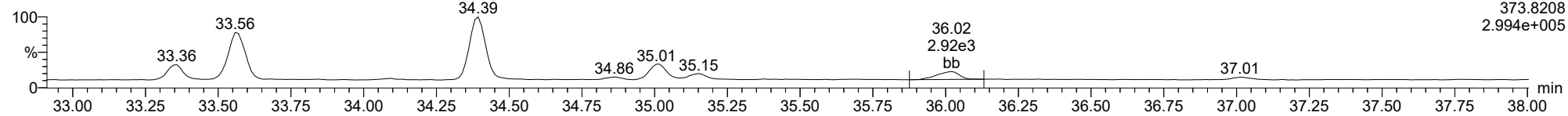


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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

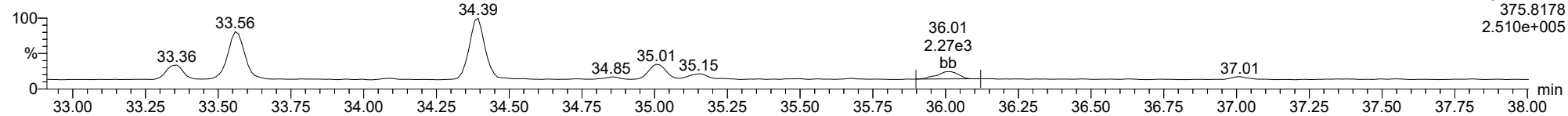
234678-HxCDF

23020706



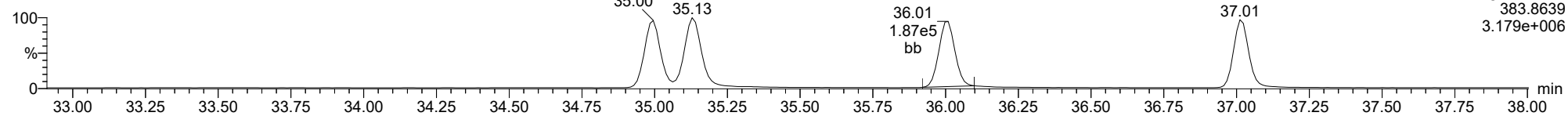
234678-HxCDF

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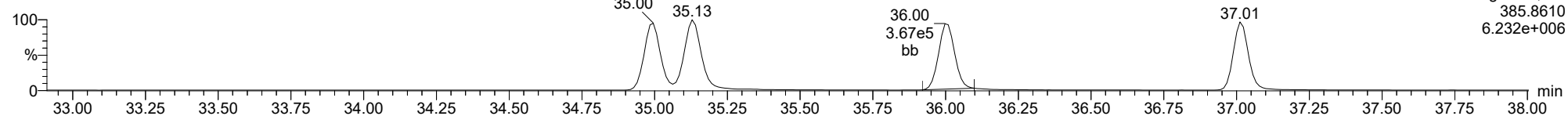
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23020706



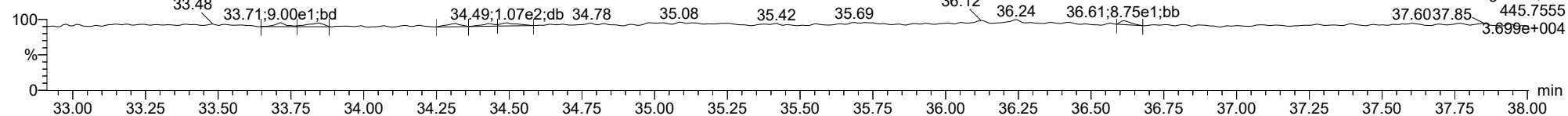
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FUNCTION3 OCDPE

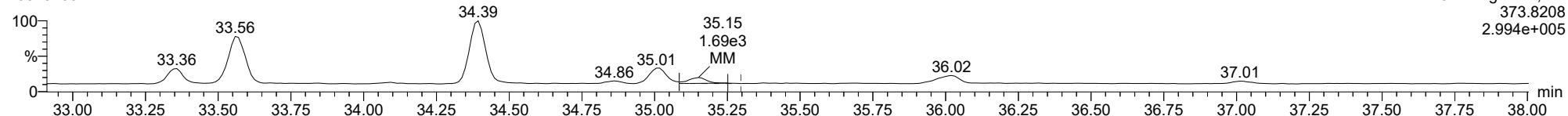
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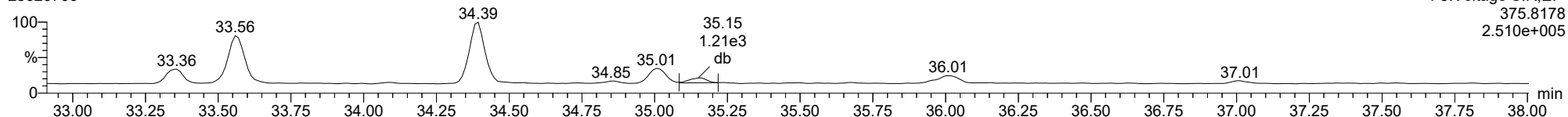
123678-HxCDF

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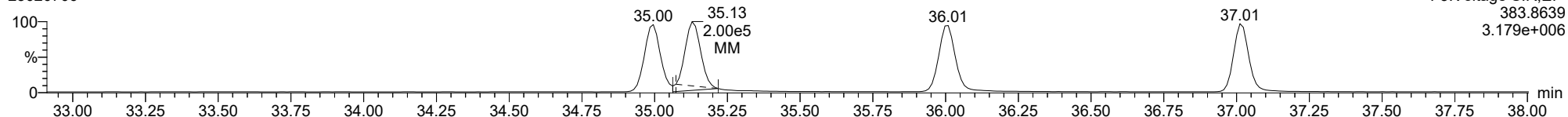
123678-HxCDF

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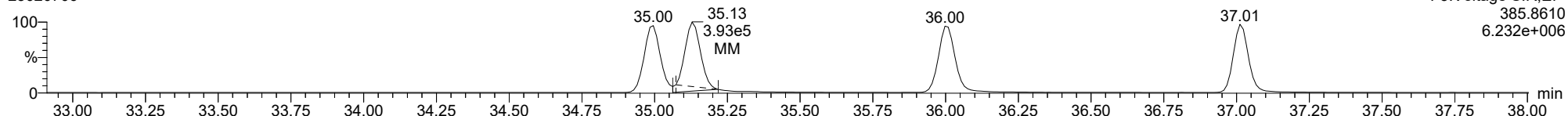
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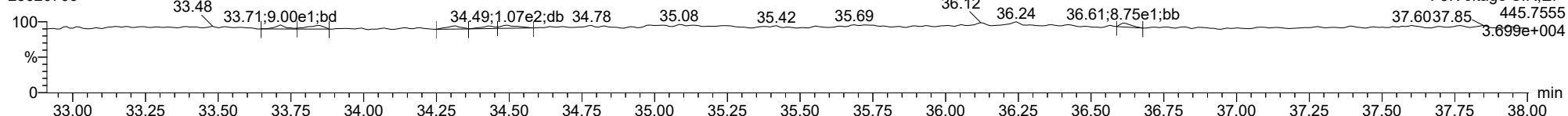
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FUNCTION3 OCDPE

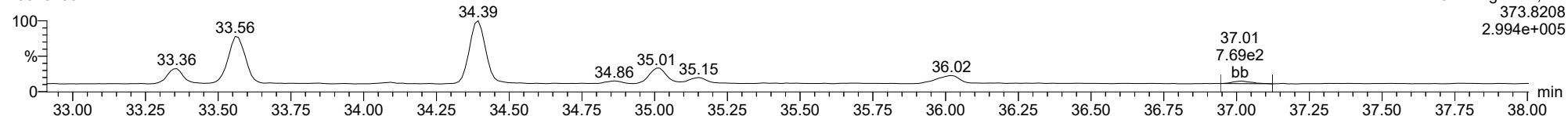
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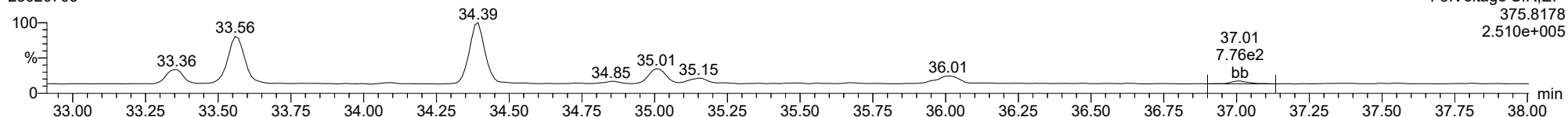
123789-HxCDF

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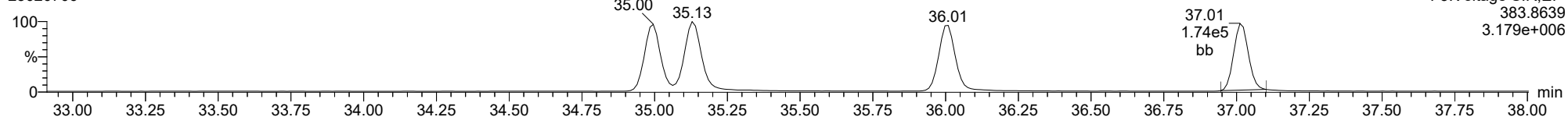
123789-HxCDF

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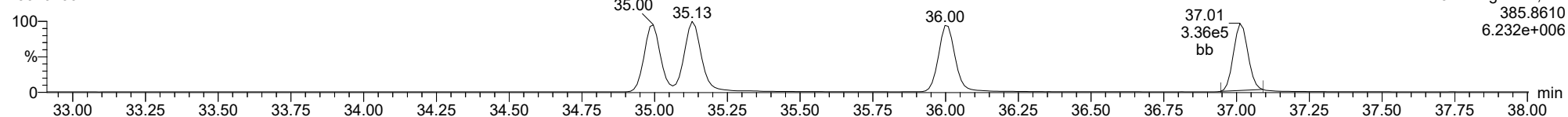
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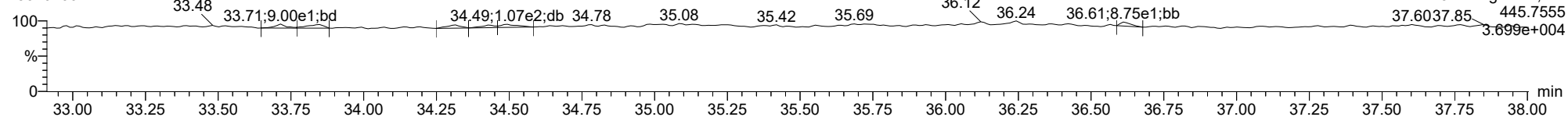
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FUNCTION3 OCDPE

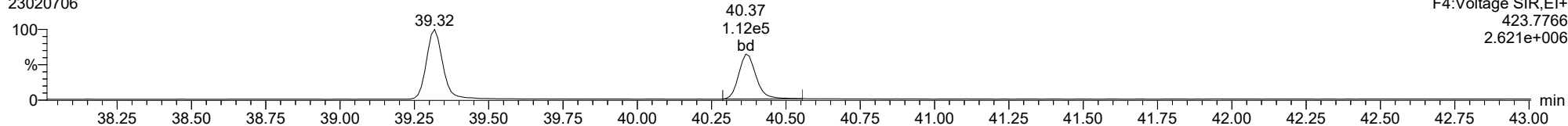
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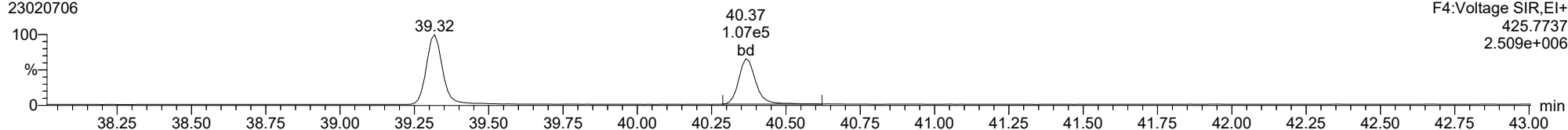
1234678-HpCDD

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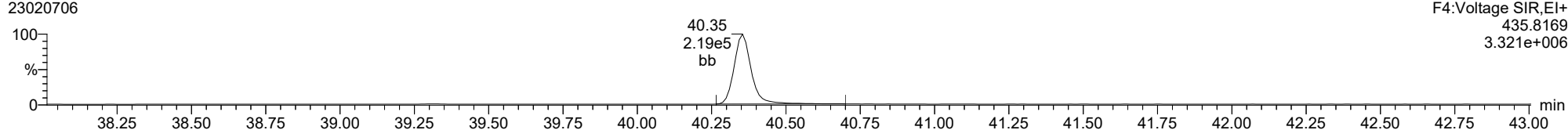
1234678-HpCDD

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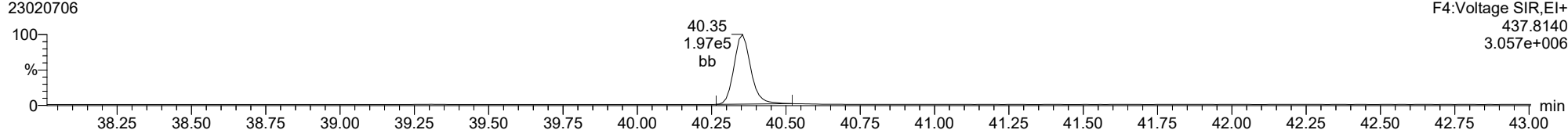
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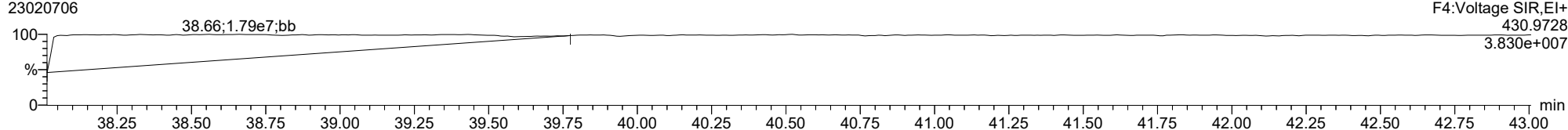
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FUNCTION4 PFK

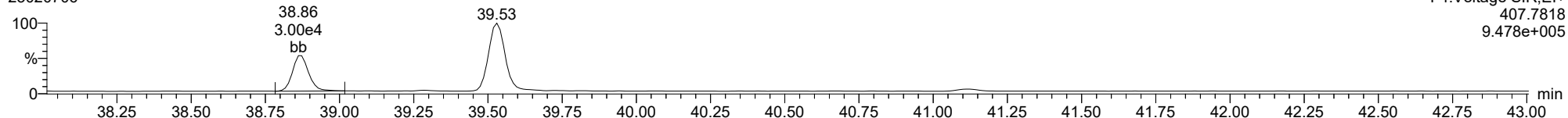
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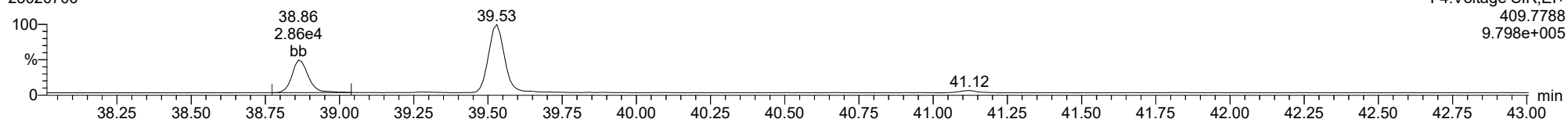
1234678-HpCDF

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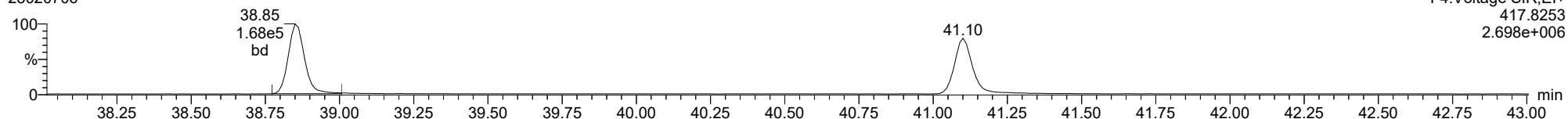
1234678-HpCDF

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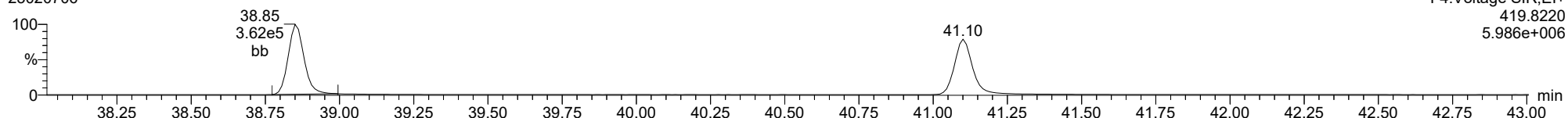
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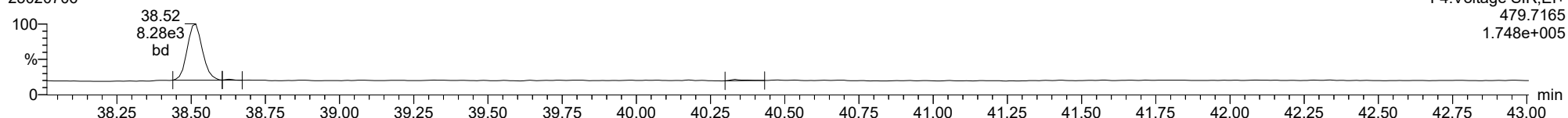
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FUNCTION4 NCDPE

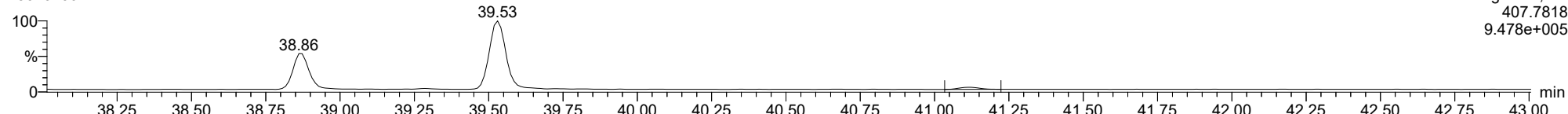
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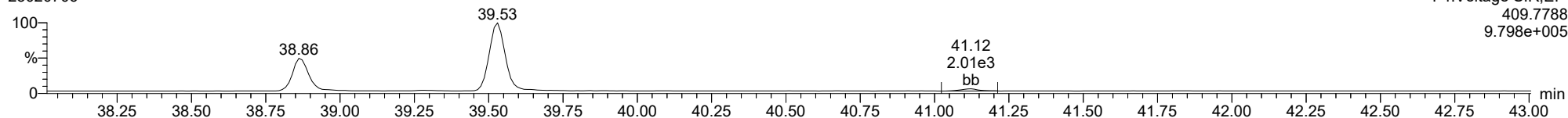
1234789-HpCDF

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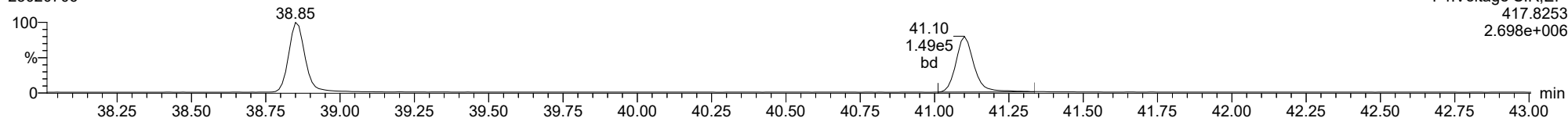
1234789-HpCDF

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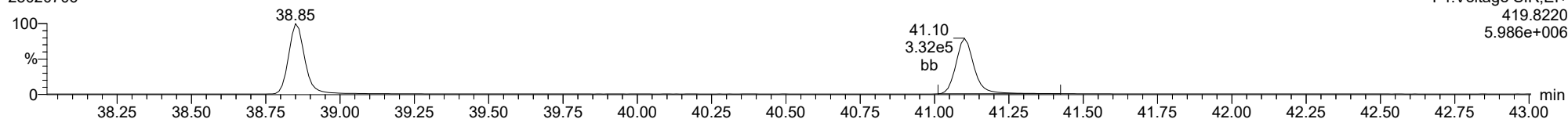
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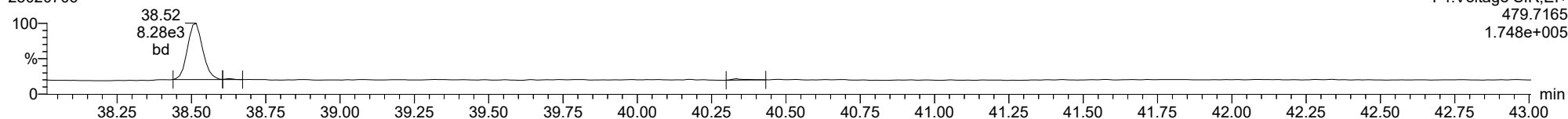
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FUNCTION4 NCDPE

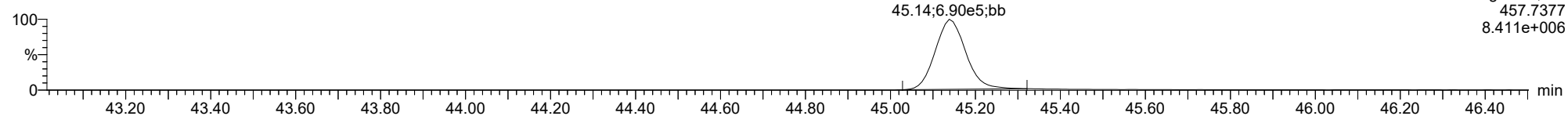
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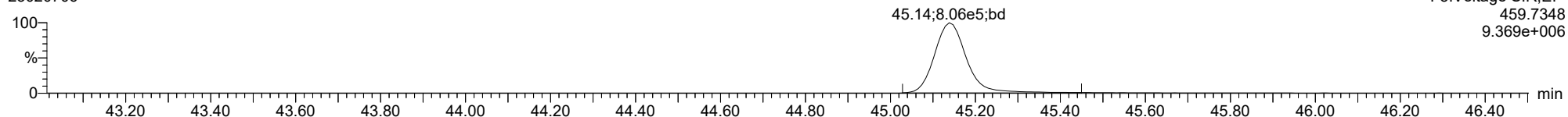
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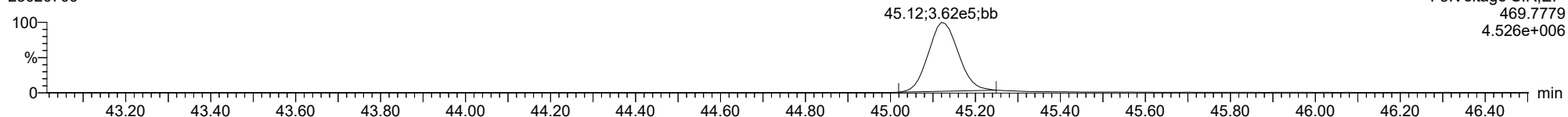
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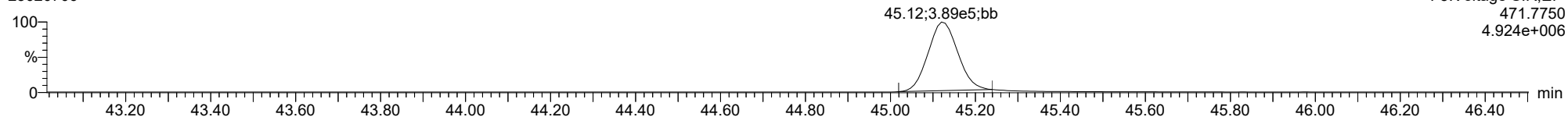
13C-OCDD

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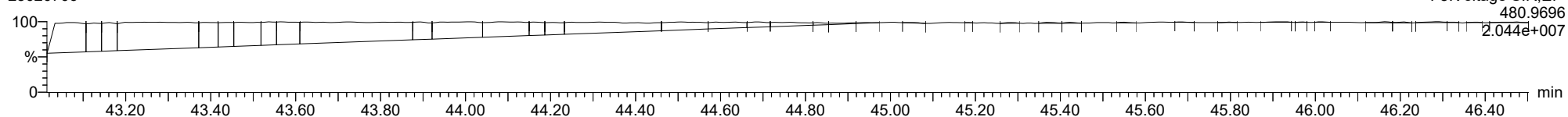
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FUNCTION5 PFK

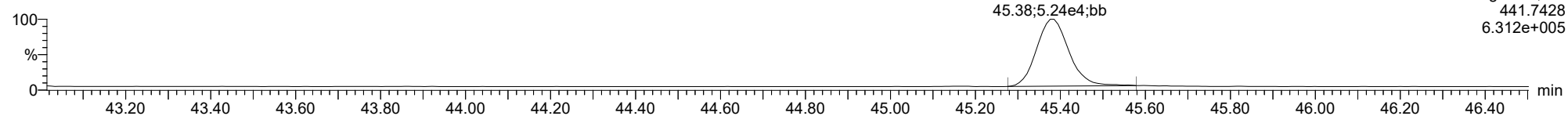
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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

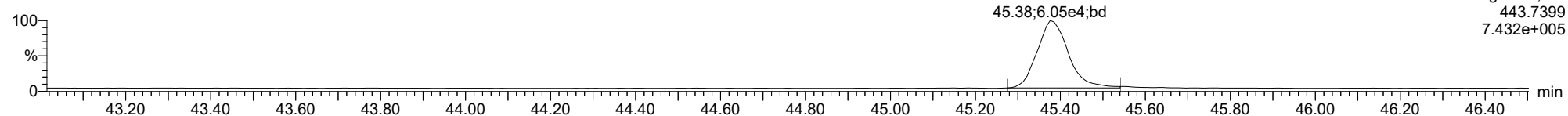
OCDF

23020706



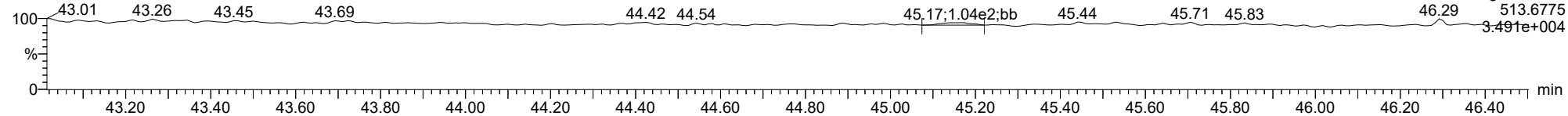
OCDF

23020706



FUNCTION5 DCDPE

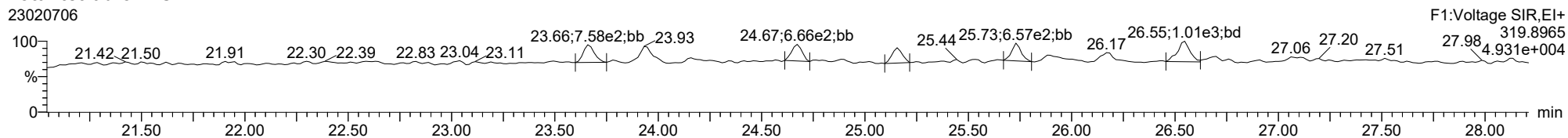
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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

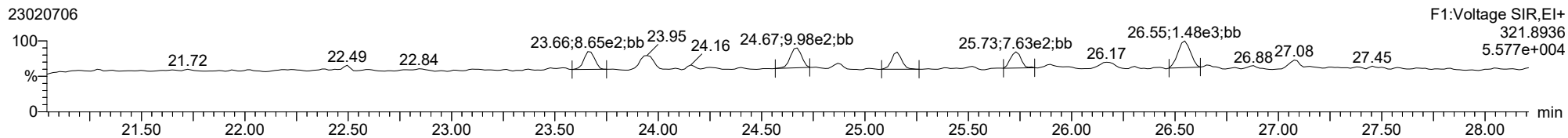
Total-tetradiioxins

23020706



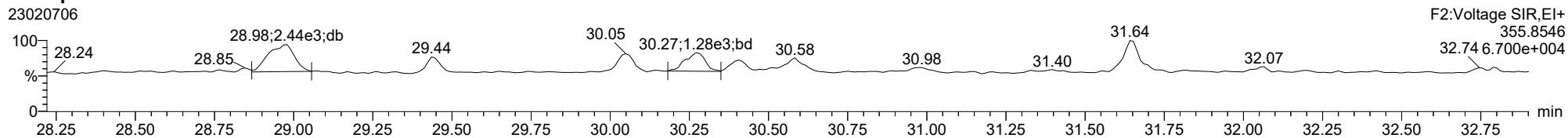
Total-tetradiioxins

23020706



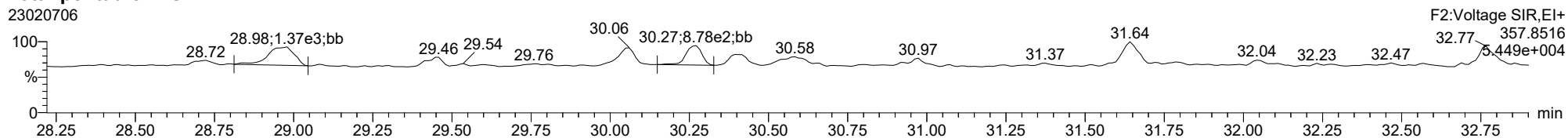
Total-pentadiioxins

23020706



Total-pentadiioxins

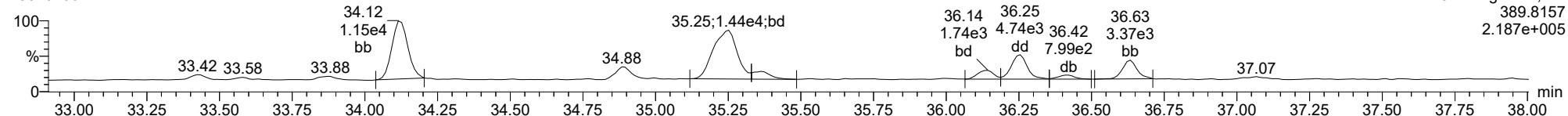
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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

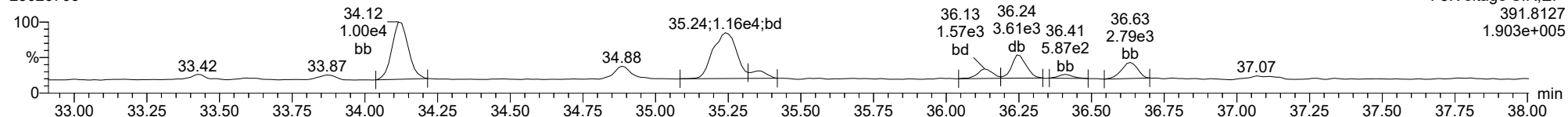
Total-hexadioxins

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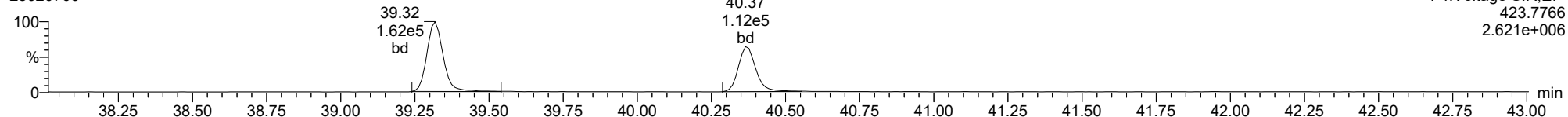
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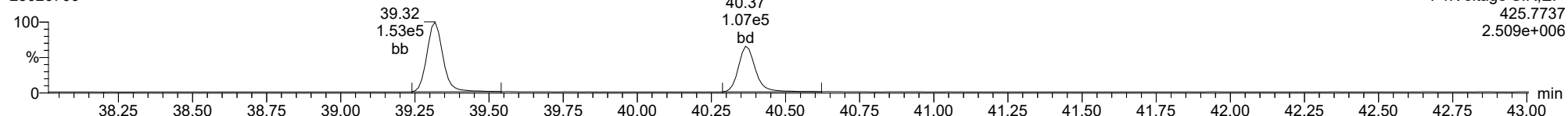
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Total-heptadioxins

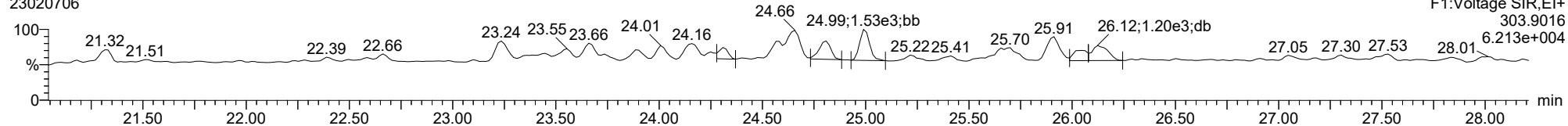
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ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

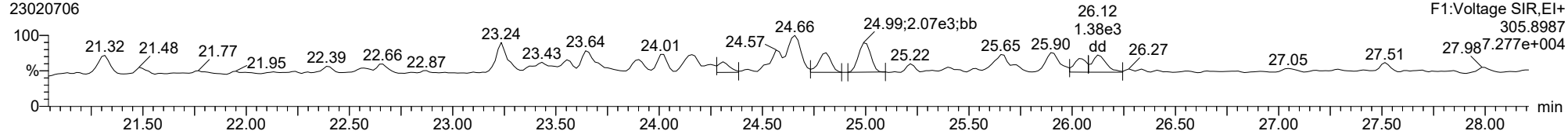
Total-tetrafurans

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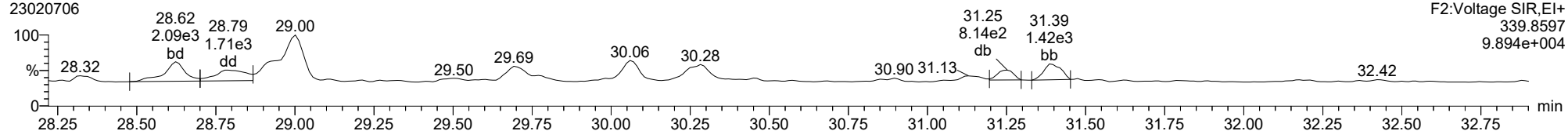
Total-tetrafurans

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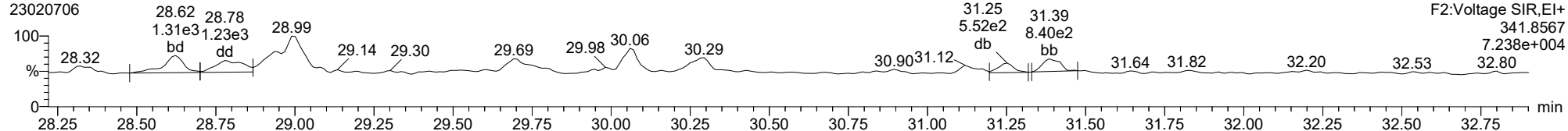
Total-pentafurans

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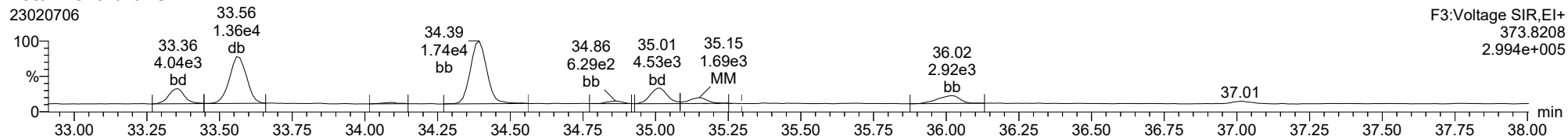
Total-pentafurans

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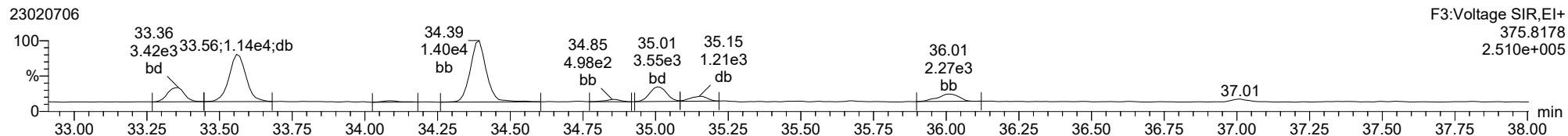


ID: BLA0079-SRM1, Name: 23020706, Date: 07-Feb-2023, Time: 12:53:21, Conditions: AUTOSPEC01, User: pk

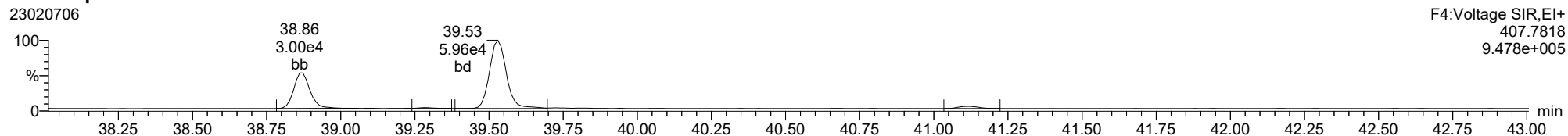
Total-hexafurans



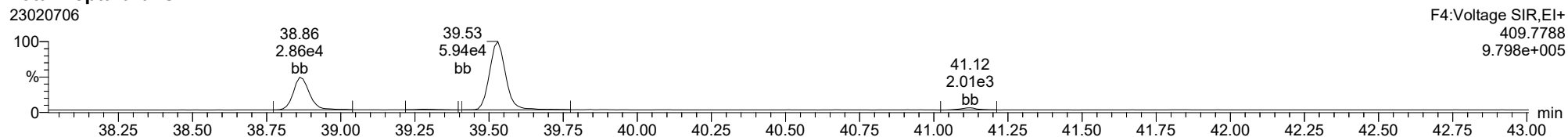
Total-hexafurans



Total-heptafurans



Total-heptafurans





INITIAL CALIBRATION DATA EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	22L0473
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:	22L0473
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:	22L0473
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:	22L0473
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'	

Quantify Sample Summary 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

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\230201\HOP.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
 Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time
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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

Dataset: T:\Autospec\Processed Data Batch\230201HOP.qld
 Last Altered: Friday, February 03, 2023 11:20:37 Pacific Standard Time
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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

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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

Dataset: T:\Autospec\Processed Data Batch\230201HOP.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

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\230201HOP.qld

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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

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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	27.55	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

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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

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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	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		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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

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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

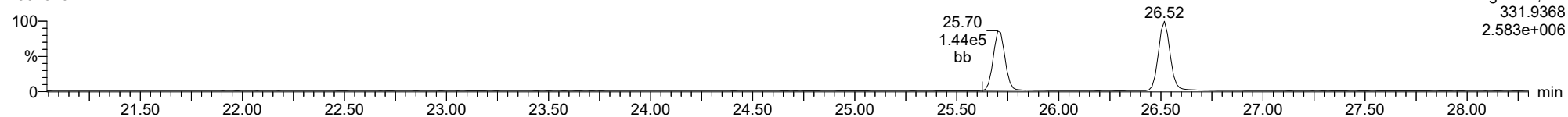
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Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

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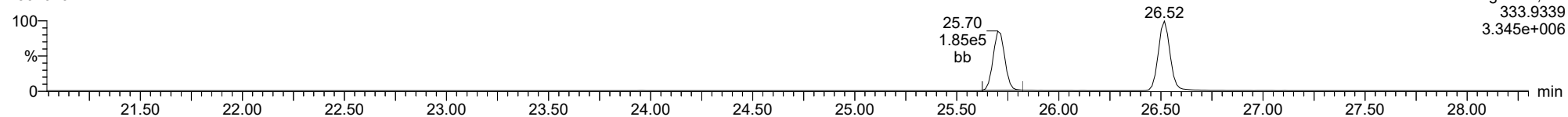
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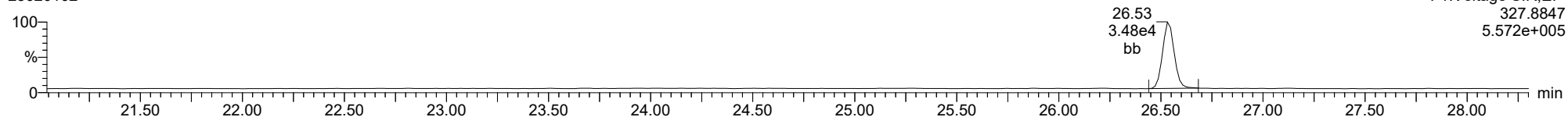
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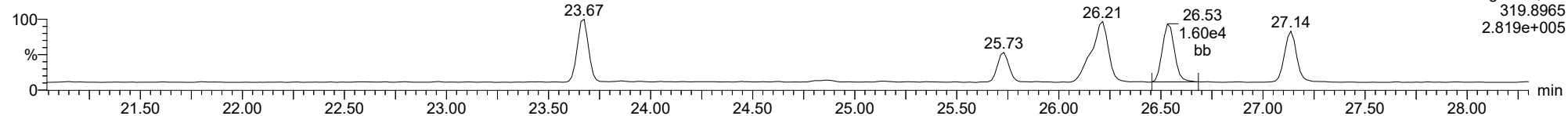
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ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

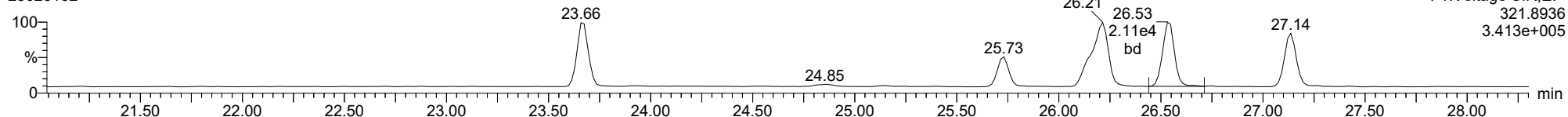
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23020102



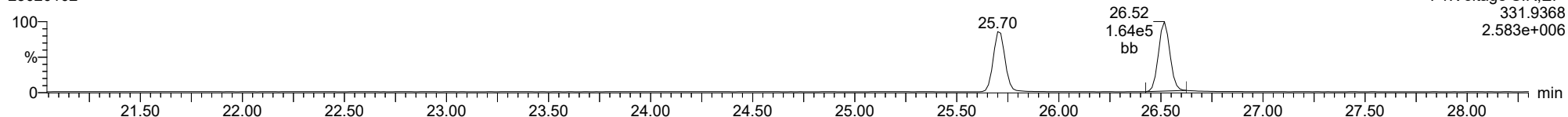
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23020102



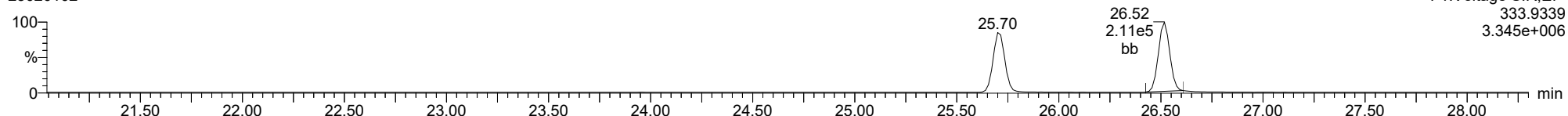
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23020102



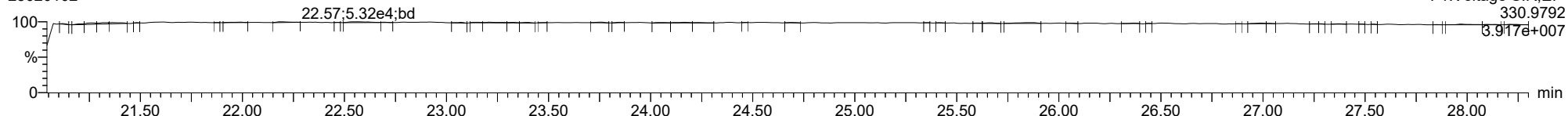
13C-2378-TCDD

23020102



FUNCTION1 PFK

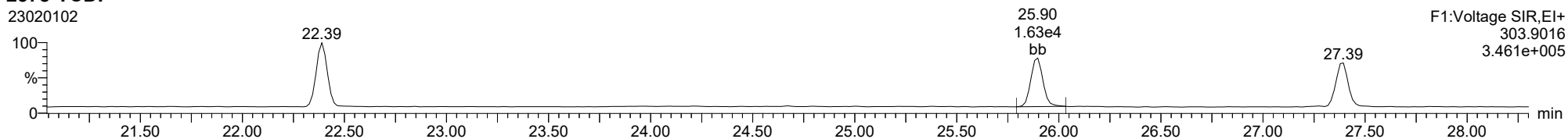
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

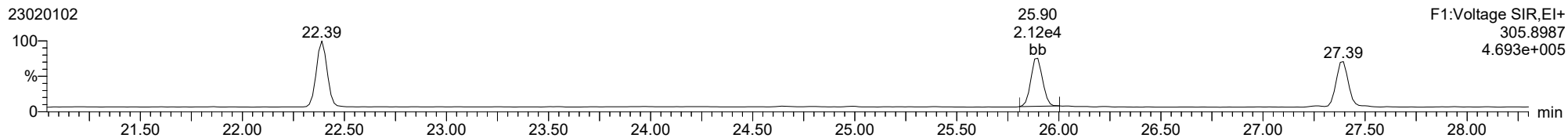
2378-TCDF

23020102



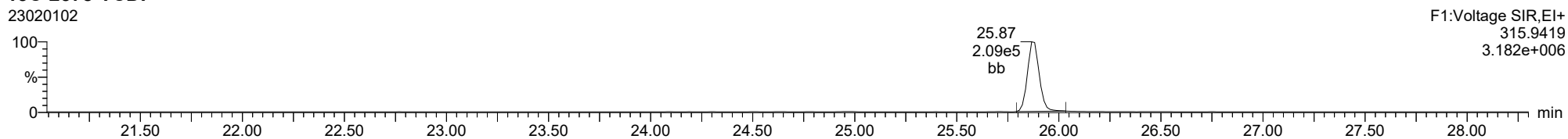
2378-TCDF

23020102



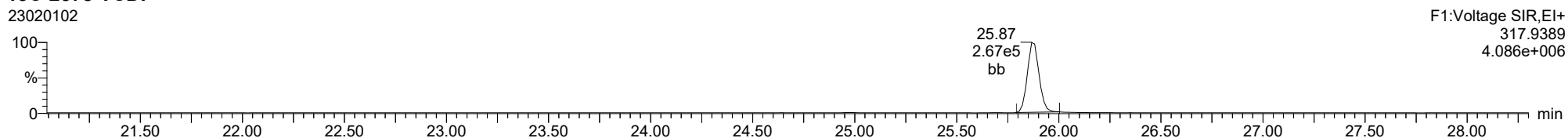
13C-2378-TCDF

23020102



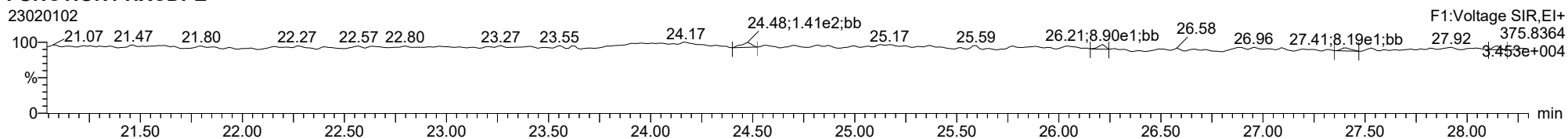
13C-2378-TCDF

23020102



FUNCTION1 HXCDPE

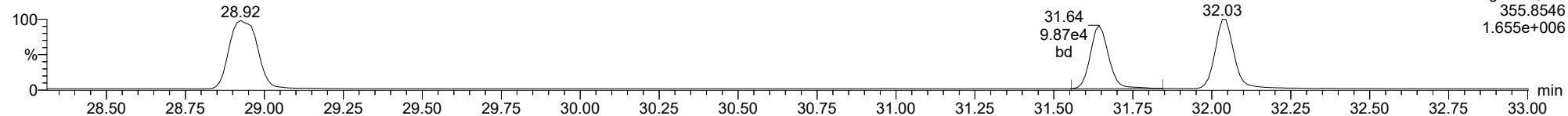
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

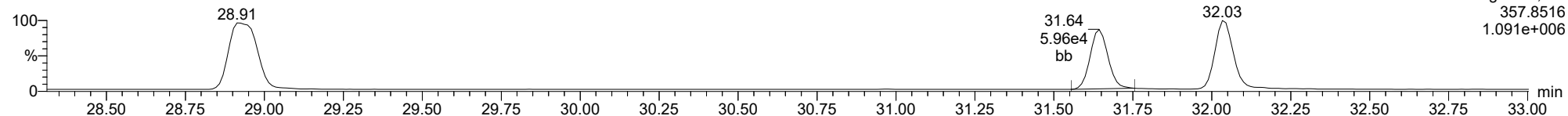
23020102



F2:Voltage SIR,EI+
355.8546
1.655e+006

12378-PeCDD

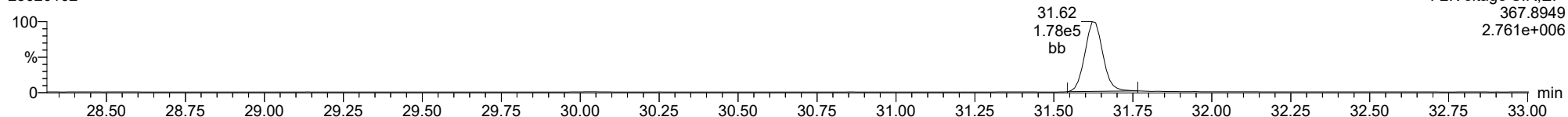
23020102



F2:Voltage SIR,EI+
357.8516
1.091e+006

13C-12378-PeCDD

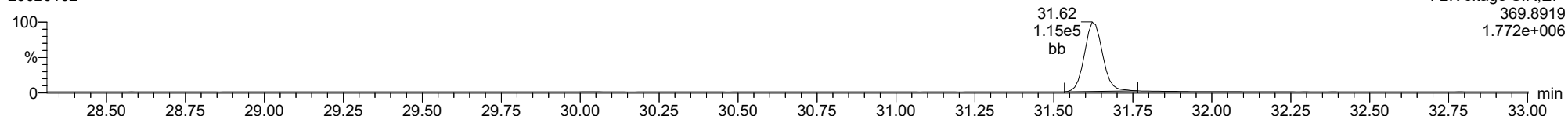
23020102



F2:Voltage SIR,EI+
367.8949
2.761e+006

13C-12378-PeCDD

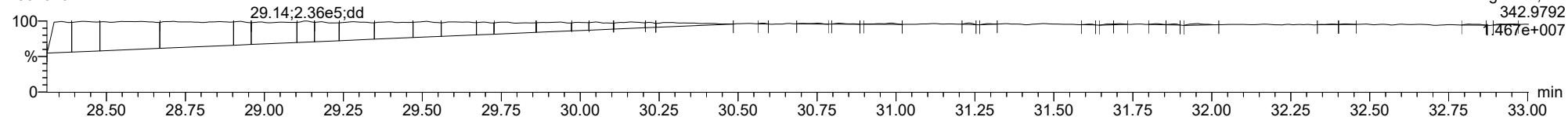
23020102



F2:Voltage SIR,EI+
369.8919
1.772e+006

FUNCTION2 PFK

23020102

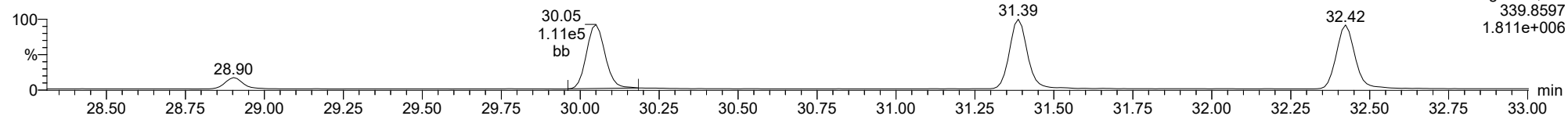


F2:Voltage SIR,EI+
342.9792
1.467e+007

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

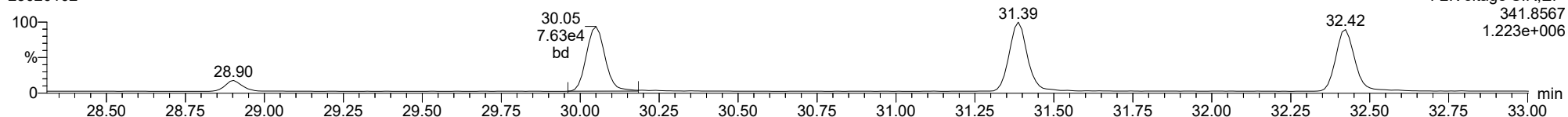
12378-PeCDF

23020102



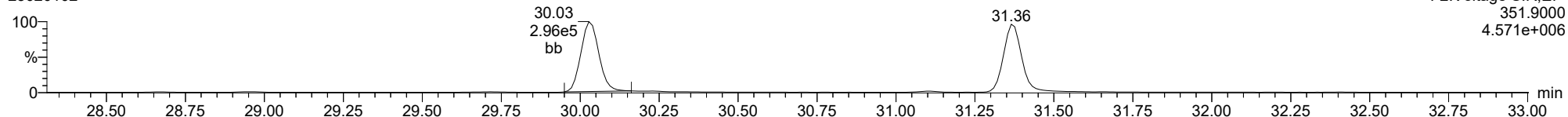
12378-PeCDF

23020102



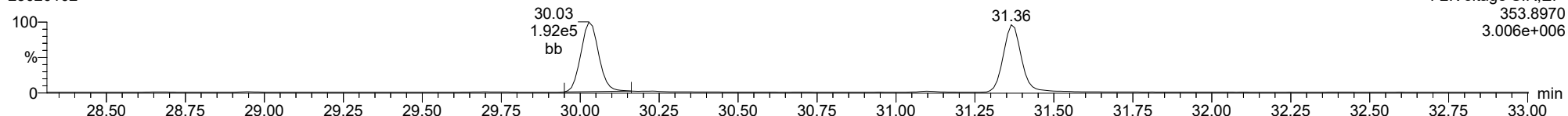
13C-12378-PeCDF

23020102



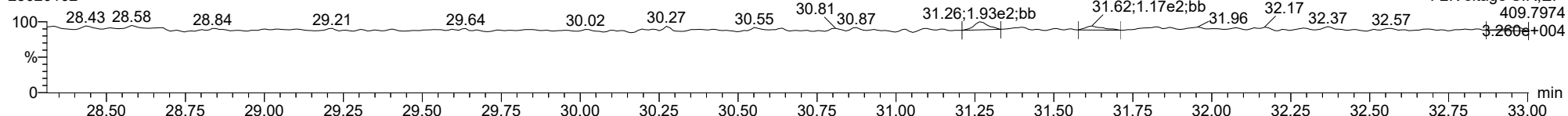
13C-12378-PeCDF

23020102



FUNCTION2 HPCDPE

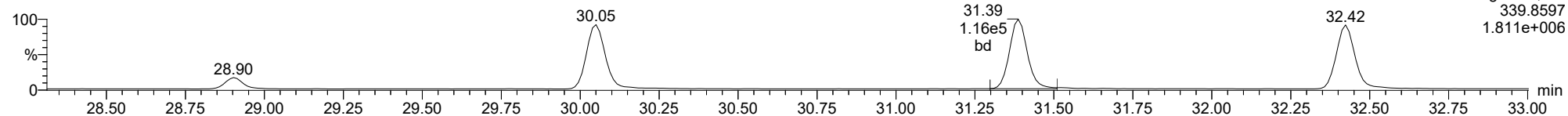
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

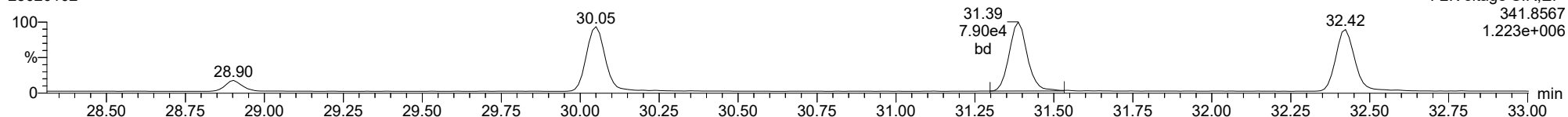
23478-PeCDF

23020102



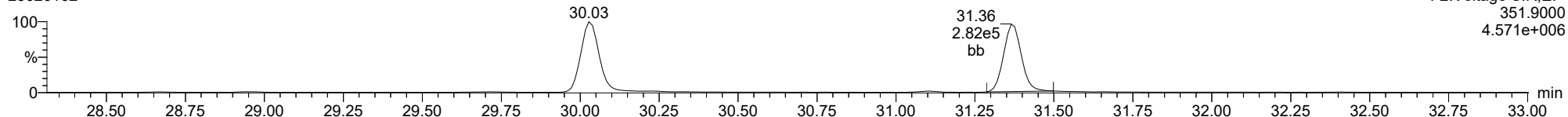
23478-PeCDF

23020102



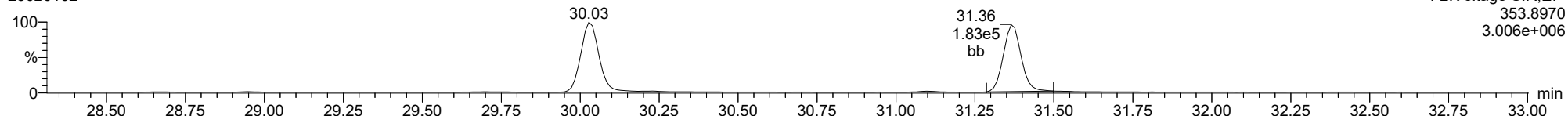
13C-23478-PeCDF

23020102



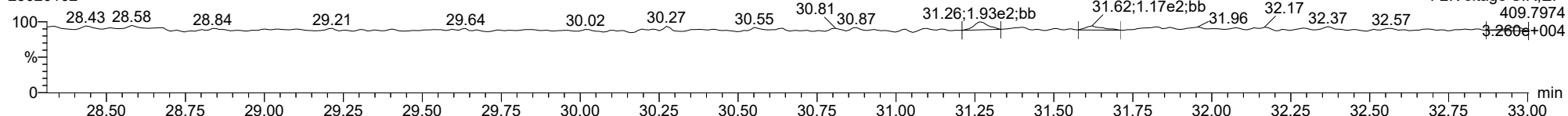
13C-23478-PeCDF

23020102



FUNCTION2 HPCDPE

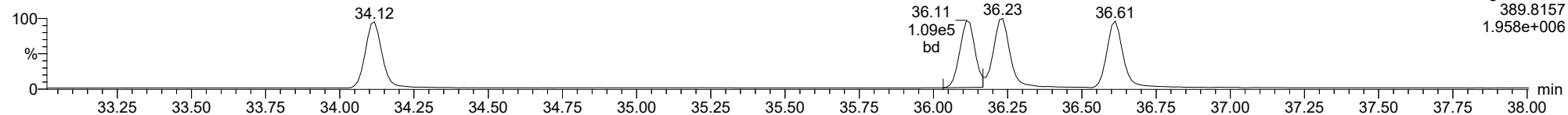
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

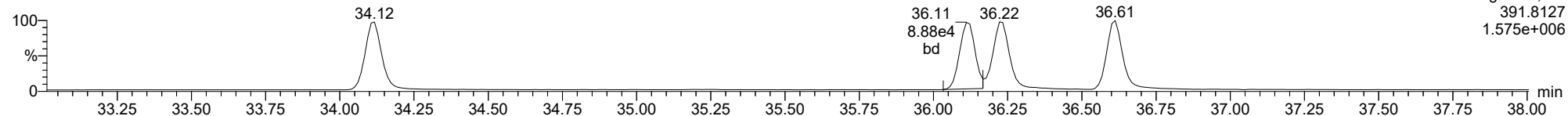
23020102



F3:Voltage SIR,El+
389.8157
1.958e+006

123478-HxCDD

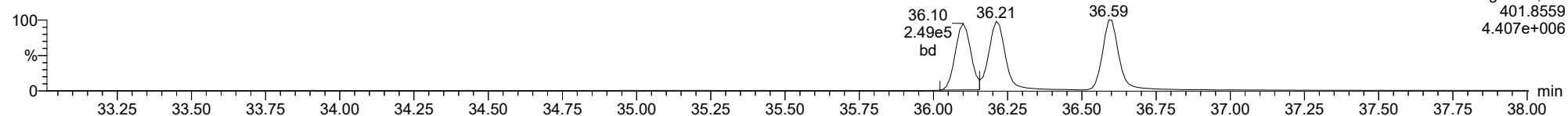
23020102



F3:Voltage SIR,El+
391.8127
1.575e+006

13C-123478-HxCDD

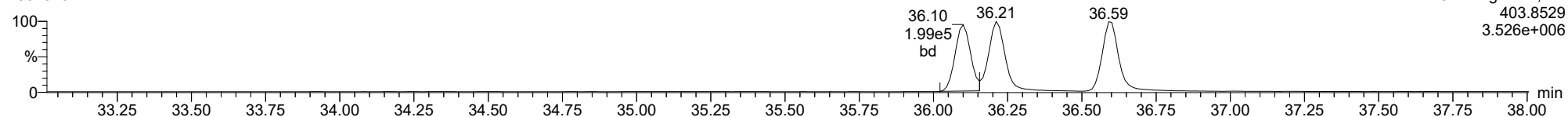
23020102



F3:Voltage SIR,El+
401.8559
4.407e+006

13C-123478-HxCDD

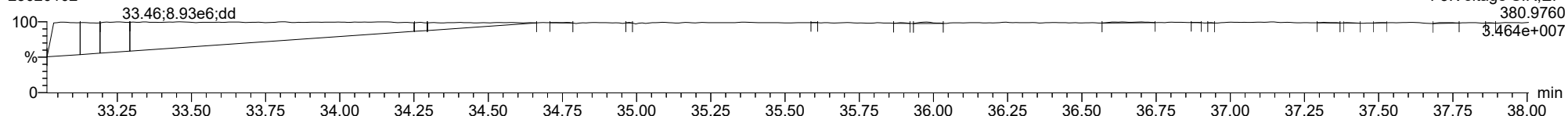
23020102



F3:Voltage SIR,El+
403.8529
3.526e+006

FUNCTION3 PFK

23020102

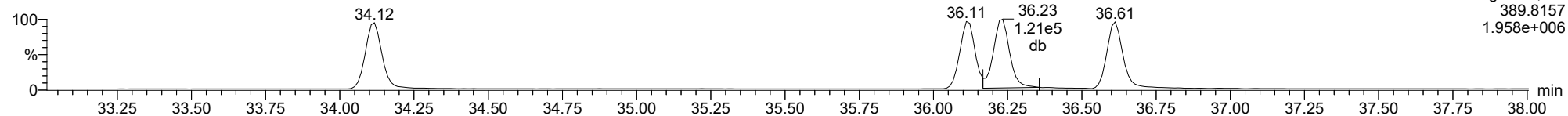


F3:Voltage SIR,El+
380.9760
3.464e+007

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

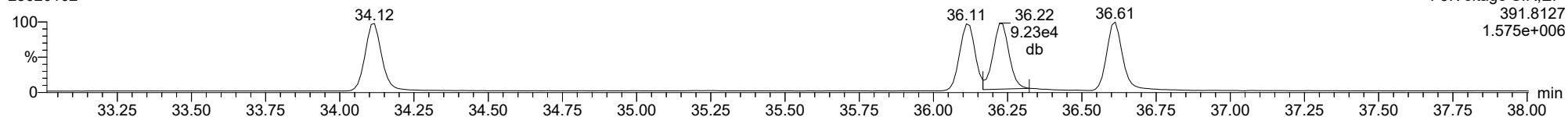
123678-HxCDD

23020102



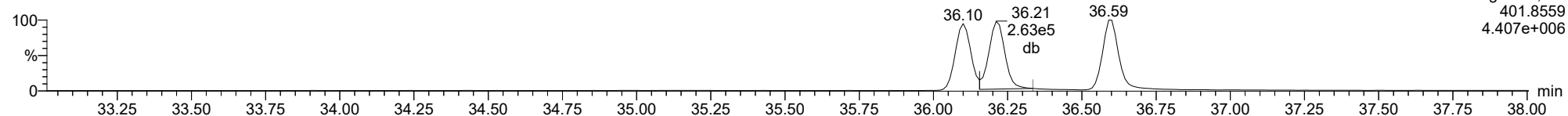
123678-HxCDD

23020102



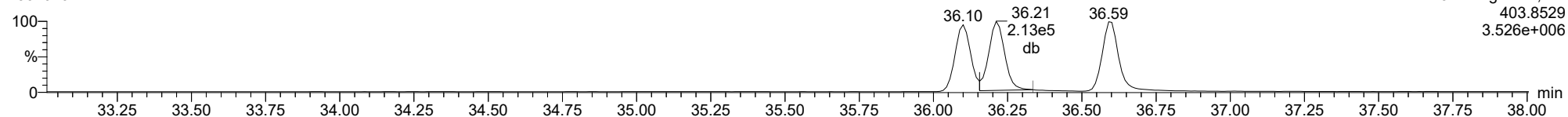
13C-123678-HxCDD

23020102



13C-123678-HxCDD

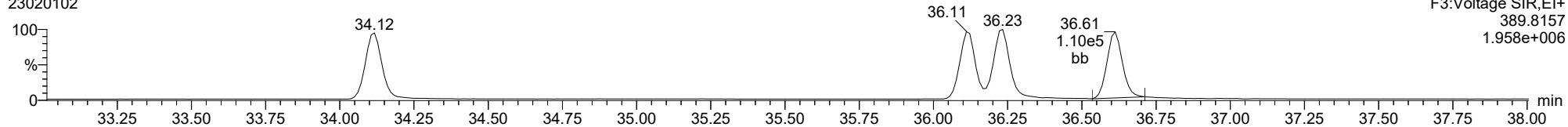
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

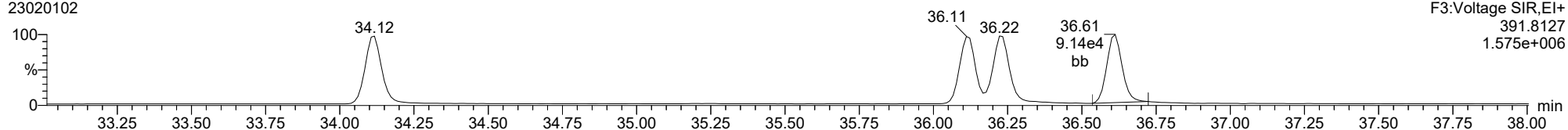
123789-HxCDD

23020102



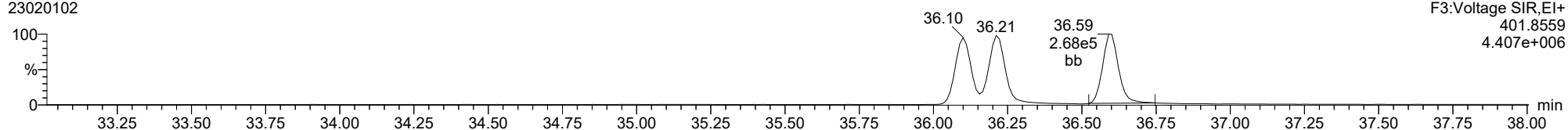
123789-HxCDD

23020102



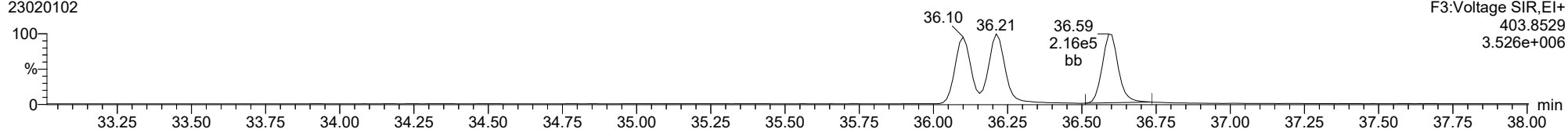
13C-123789-HxCDD

23020102



13C-123789-HxCDD

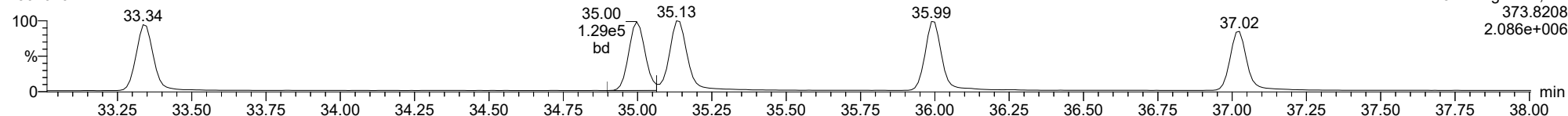
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ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

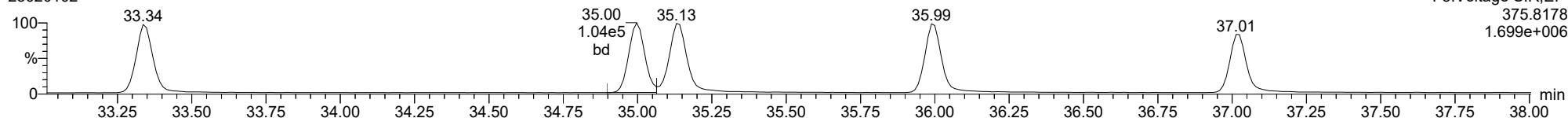
123478-HxCDF

23020102



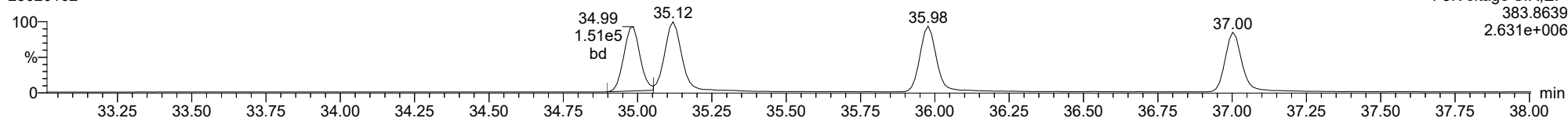
123478-HxCDF

23020102



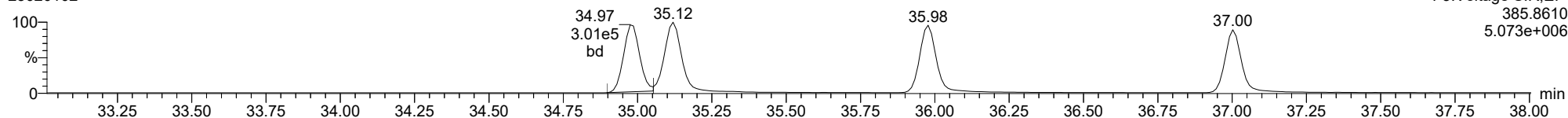
13C-123478-HxCDF

23020102



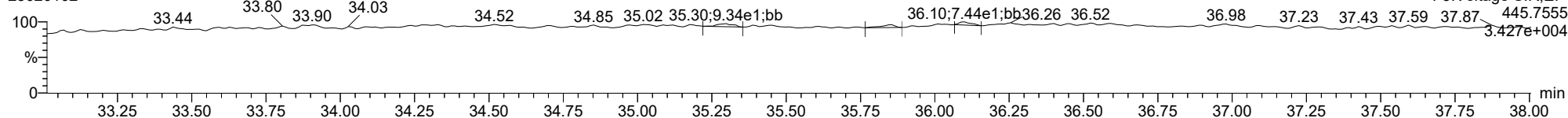
13C-123478-HxCDF

23020102



FUNCTION3 OCDPE

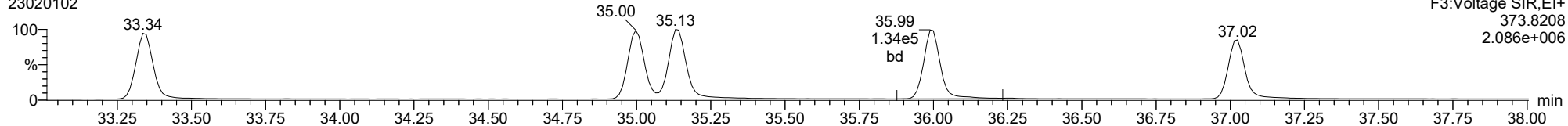
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

234678-HxCDF

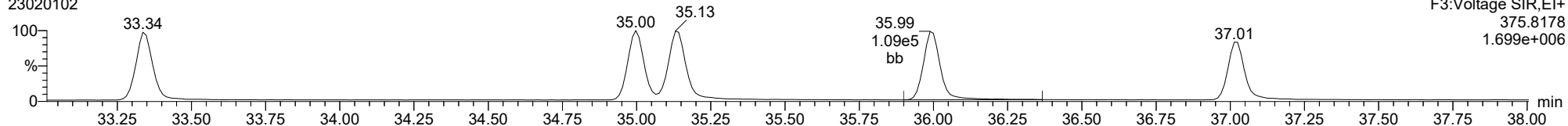
23020102



F3:Voltage SIR,El+
373.8208
2.086e+006

234678-HxCDF

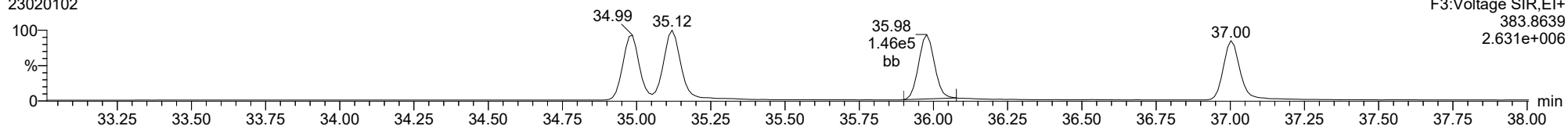
23020102



F3:Voltage SIR,El+
375.8178
1.699e+006

13C-234678-HxCDF

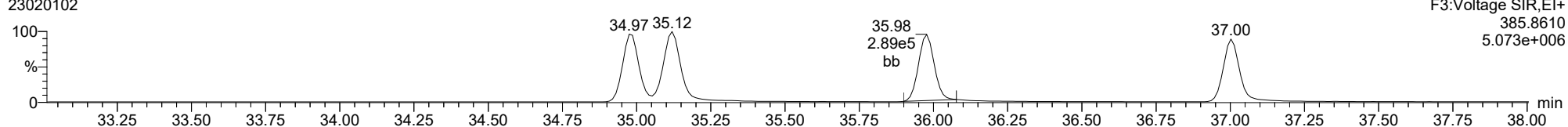
23020102



F3:Voltage SIR,El+
383.8639
2.631e+006

13C-234678-HxCDF

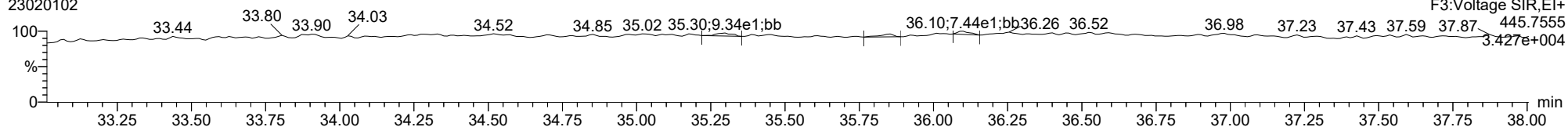
23020102



F3:Voltage SIR,El+
385.8610
5.073e+006

FUNCTION3 OCDPE

23020102

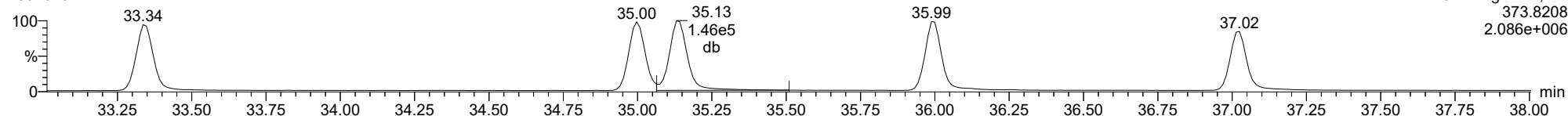


F3:Voltage SIR,El+
445.7555
3.427e+004

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

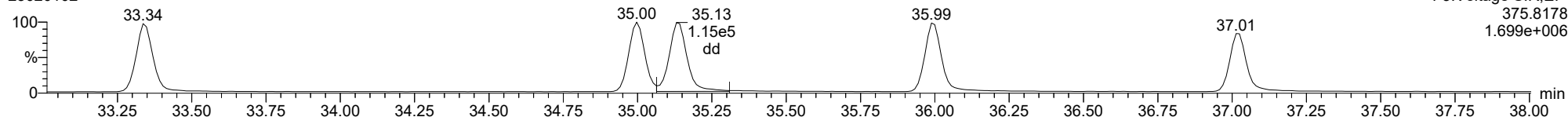
123678-HxCDF

23020102



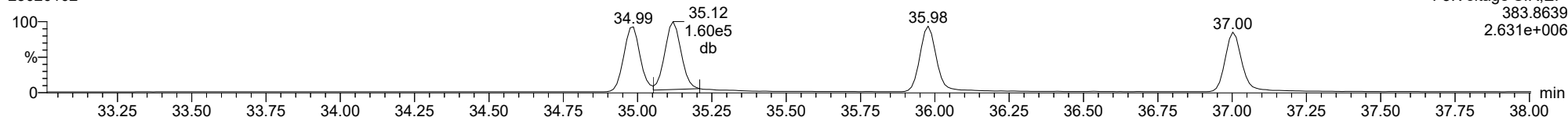
123678-HxCDF

23020102



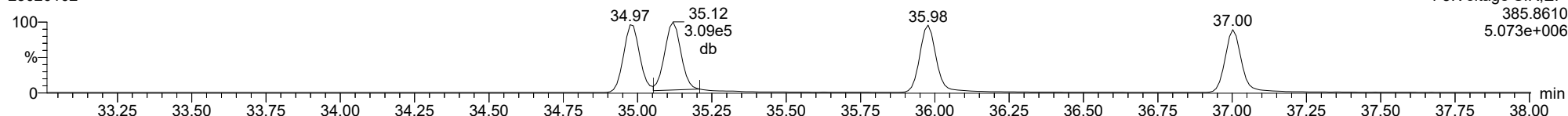
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23020102



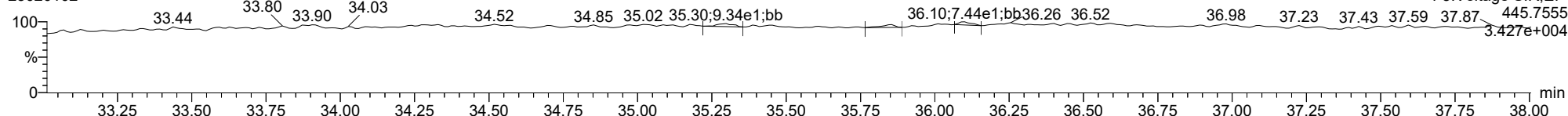
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23020102



FUNCTION3 OCDPE

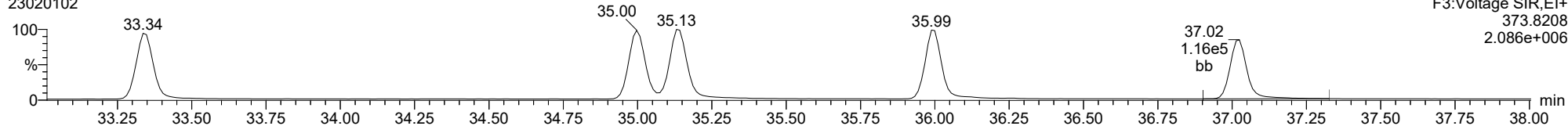
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ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

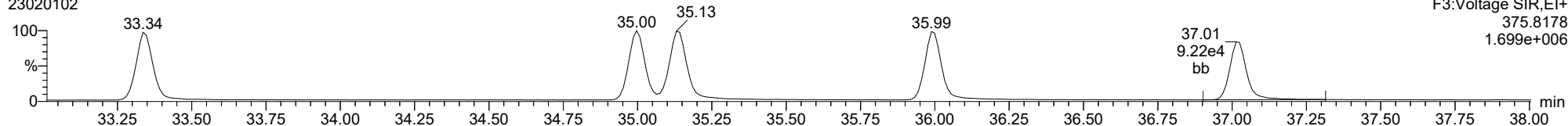
123789-HxCDF

23020102



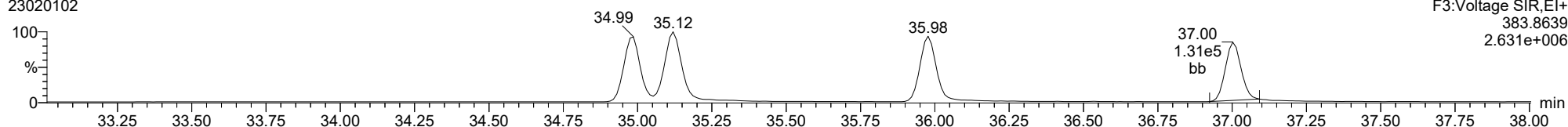
123789-HxCDF

23020102



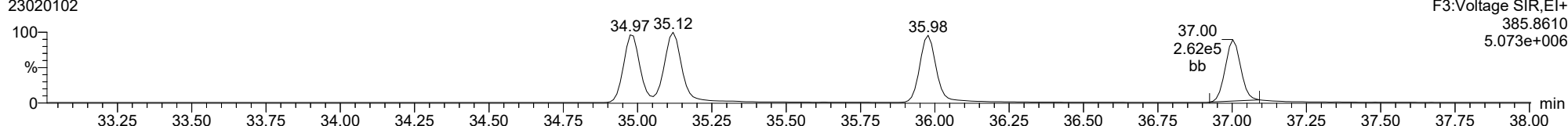
13C-123789-HxCDF

23020102



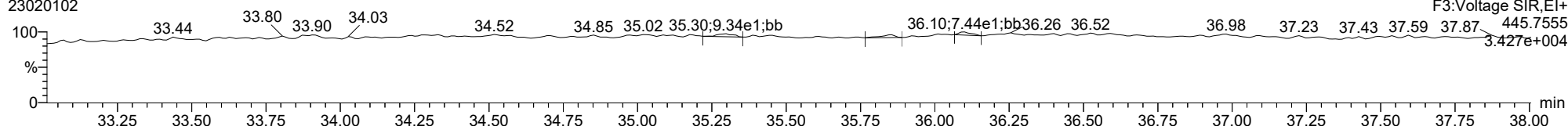
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23020102



FUNCTION3 OCDPE

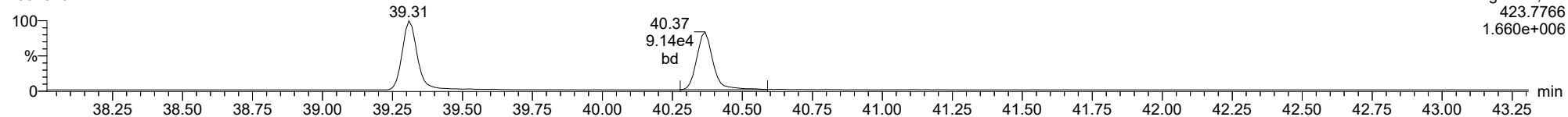
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

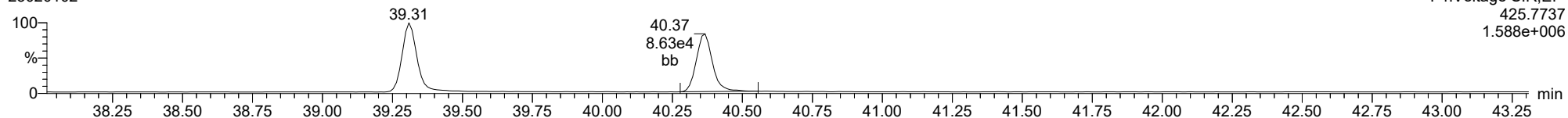
1234678-HpCDD

23020102



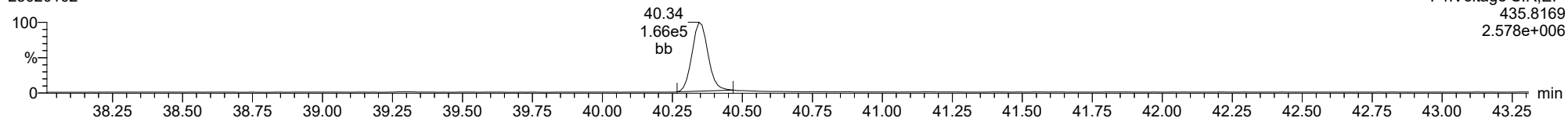
1234678-HpCDD

23020102



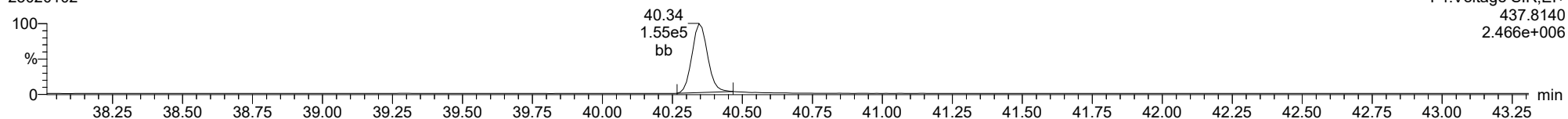
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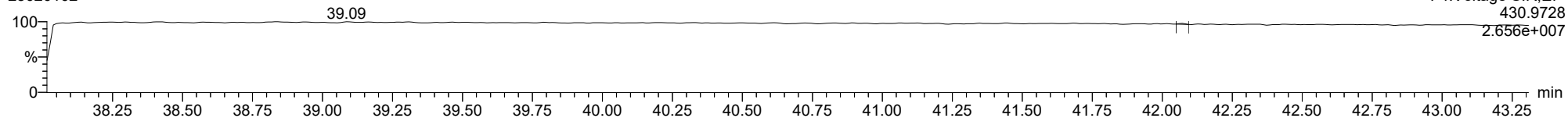
13C-1234678-HpCDD

23020102



FUNCTION4 PFK

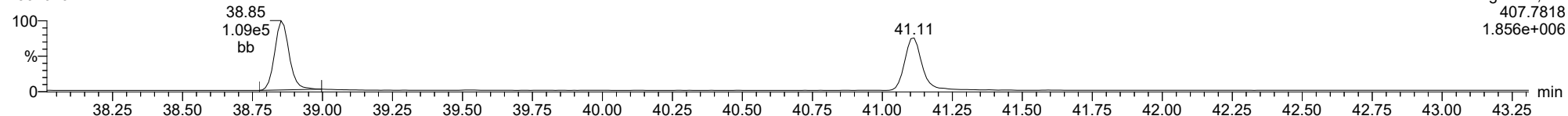
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ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

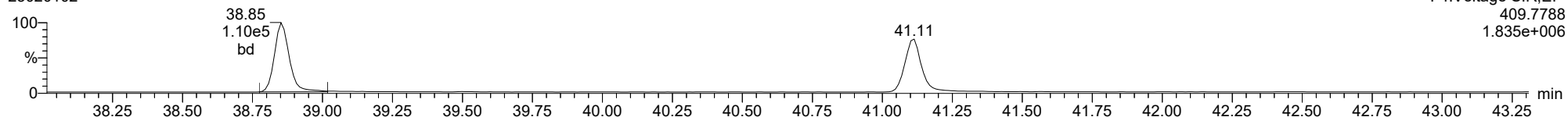
23020102



F4:Voltage SIR,El+
407.7818
1.856e+006

1234678-HpCDF

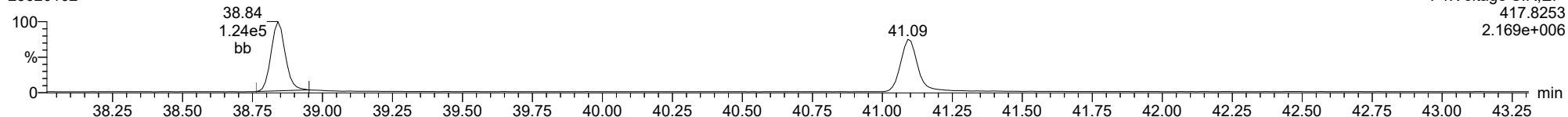
23020102



F4:Voltage SIR,El+
409.7788
1.835e+006

13C-1234678-HpCDF

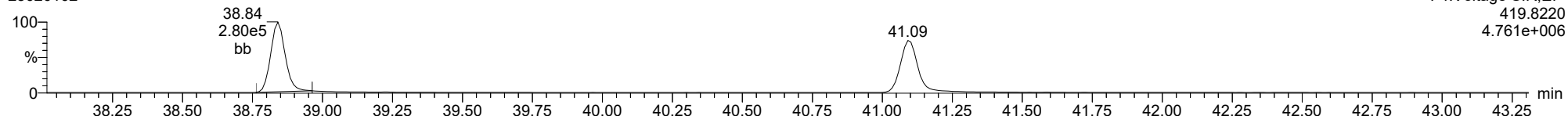
23020102



F4:Voltage SIR,El+
417.8253
2.169e+006

13C-1234678-HpCDF

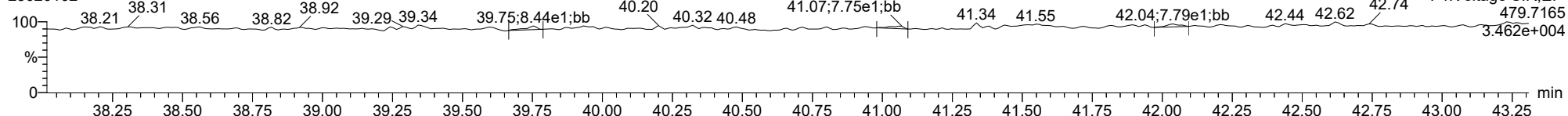
23020102



F4:Voltage SIR,El+
419.8220
4.761e+006

FUNCTION4 NCDPE

23020102

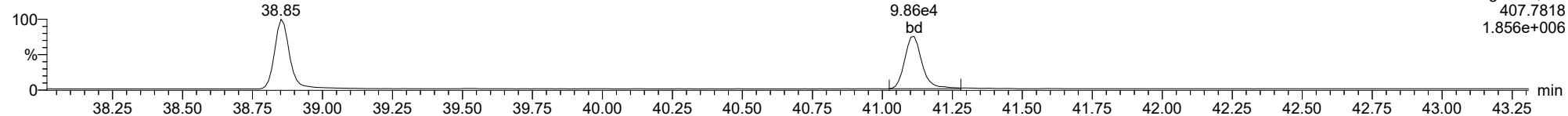


F4:Voltage SIR,El+
479.7165
3.462e+004

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

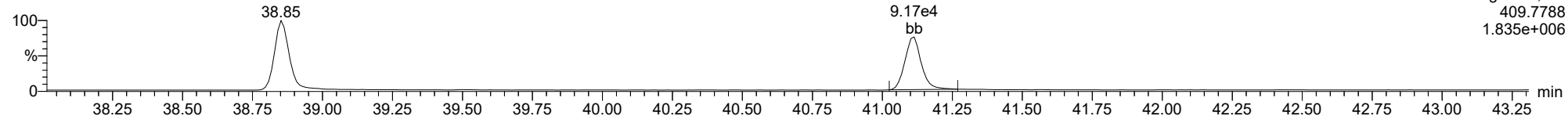
23020102



F4:Voltage SIR,EI+
407.7818
1.856e+006

1234789-HpCDF

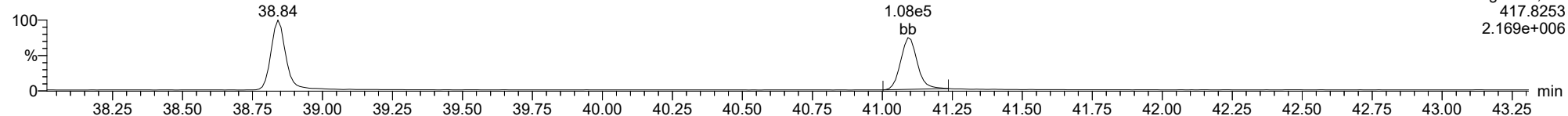
23020102



F4:Voltage SIR,EI+
409.7788
1.835e+006

13C-1234789-HpCDF

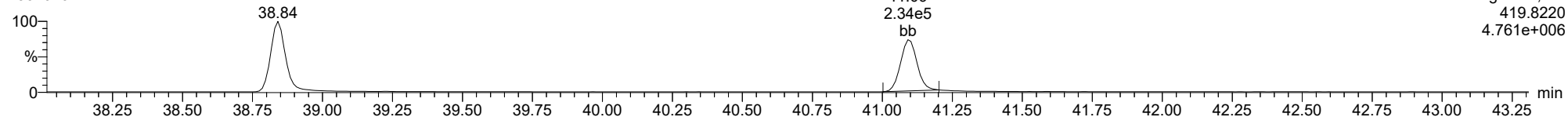
23020102



F4:Voltage SIR,EI+
417.8253
2.169e+006

13C-1234789-HpCDF

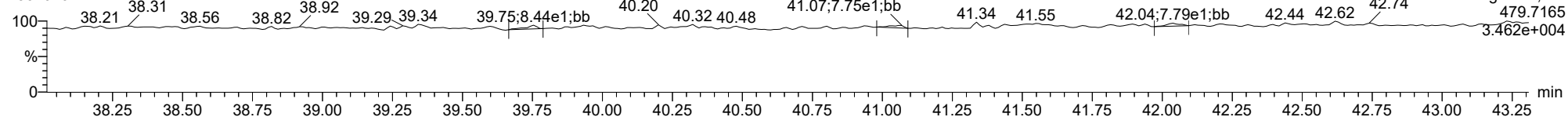
23020102



F4:Voltage SIR,EI+
419.8220
4.761e+006

FUNCTION4 NCDPE

23020102

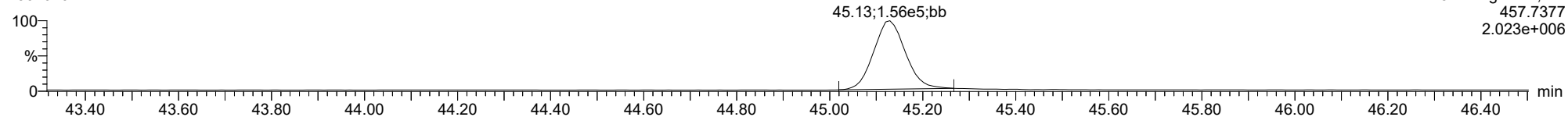


F4:Voltage SIR,EI+
479.7165
3.462e+004

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

OCDD

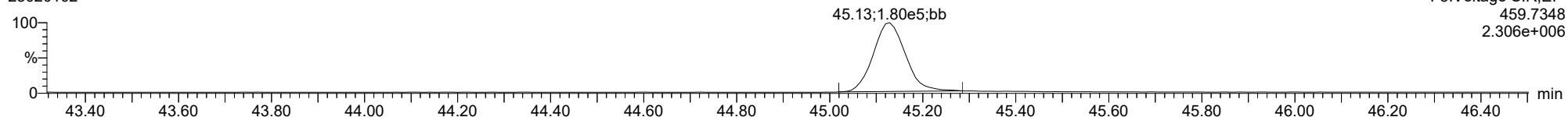
23020102



F5:Voltage SIR,EI+
457.7377
2.023e+006

OCDD

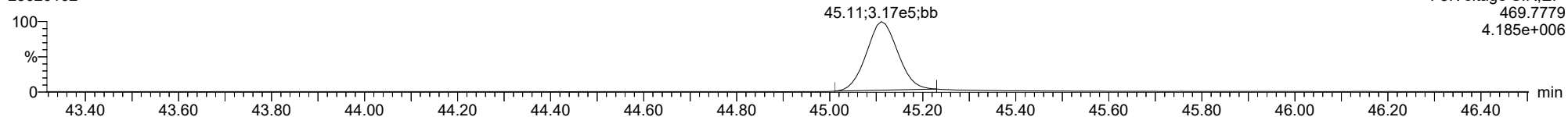
23020102



F5:Voltage SIR,EI+
459.7348
2.306e+006

13C-OCDD

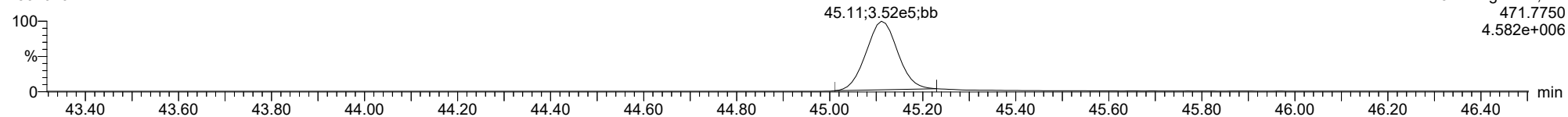
23020102



F5:Voltage SIR,EI+
469.7779
4.185e+006

13C-OCDD

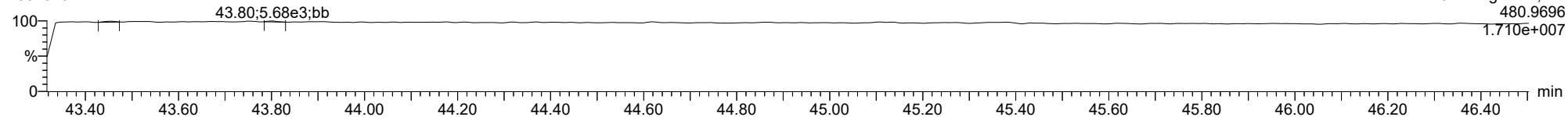
23020102



F5:Voltage SIR,EI+
471.7750
4.582e+006

FUNCTION5 PFK

23020102

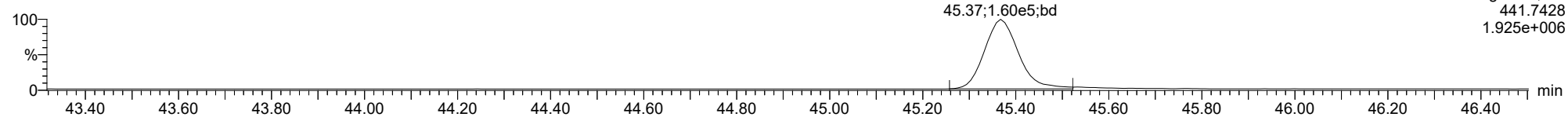


F5:Voltage SIR,EI+
480.9696
1.710e+007

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

OCDF

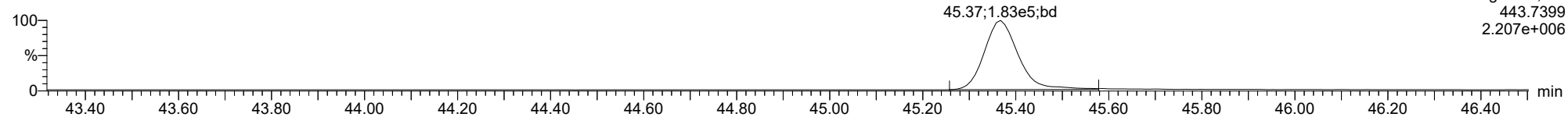
23020102



F5:Voltage SIR,EI+
441.7428
1.925e+006

OCDF

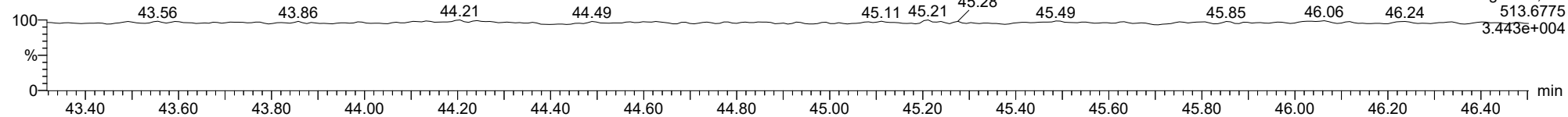
23020102



F5:Voltage SIR,EI+
443.7399
2.207e+006

FUNCTION5 DCDPE

23020102

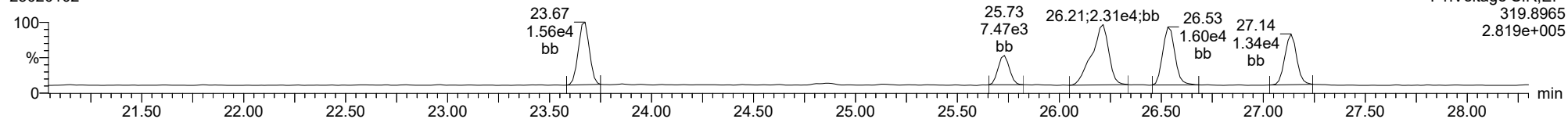


F5:Voltage SIR,EI+
513.6775
3.443e+004

ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

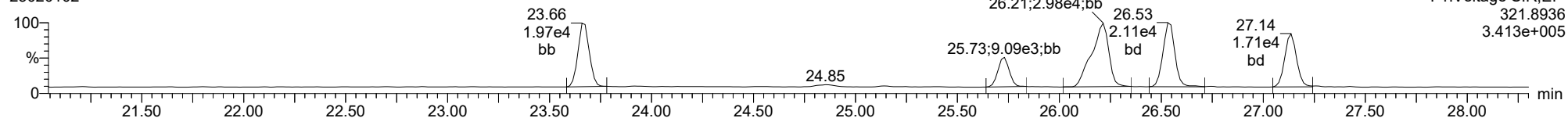
Total-tetradiioxins

23020102



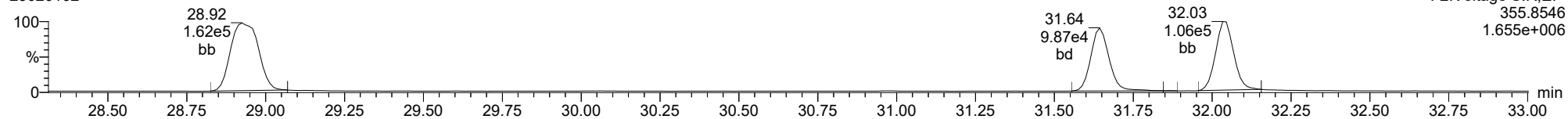
Total-tetradiioxins

23020102



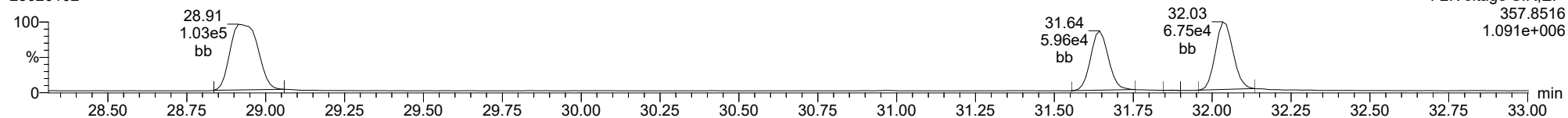
Total-pentadiioxins

23020102



Total-pentadiioxins

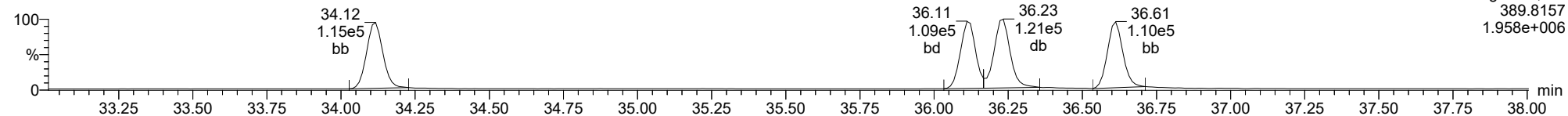
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

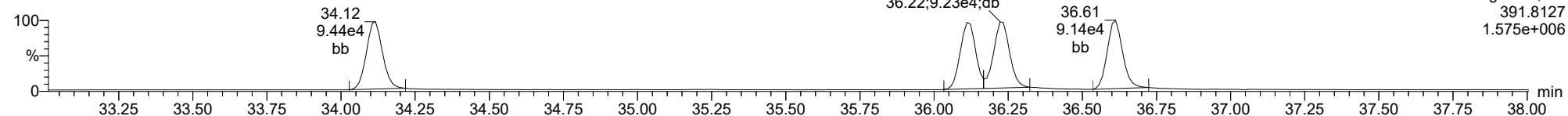
Total-hexadioxins

23020102



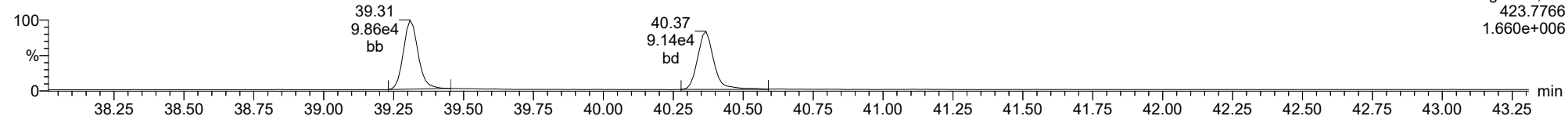
Total-hexadioxins

23020102



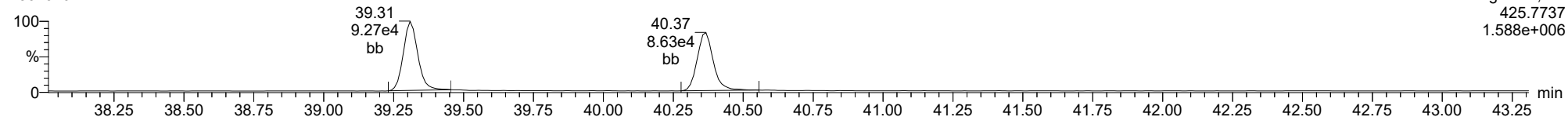
Total-heptadioxins

23020102



Total-heptadioxins

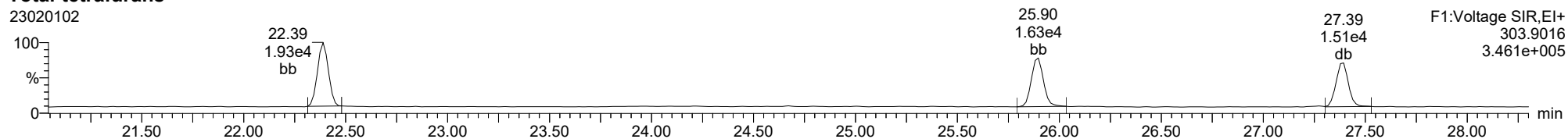
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ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

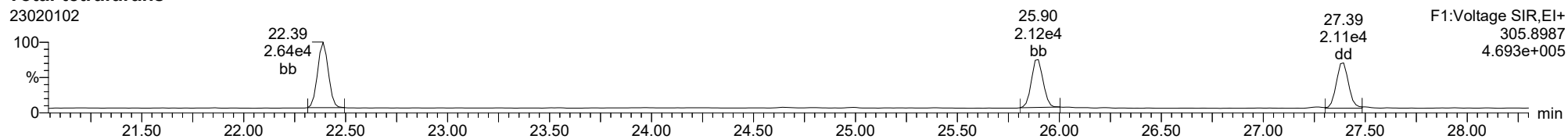
Total-tetrafurans

23020102



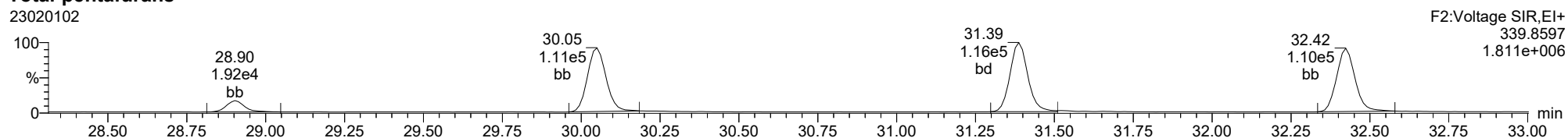
Total-tetrafurans

23020102



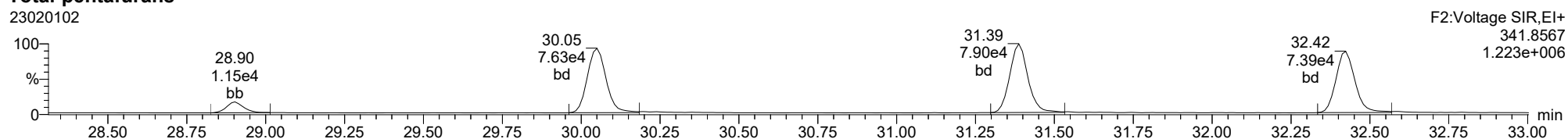
Total-pentafurans

23020102



Total-pentafurans

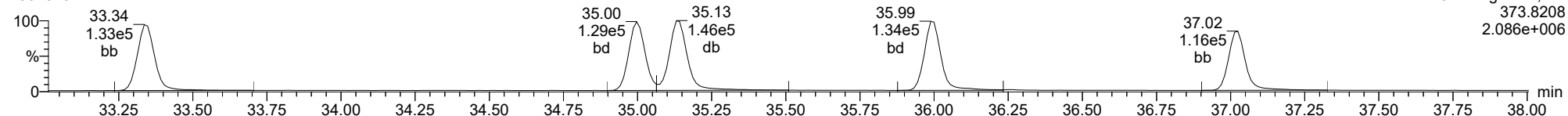
23020102



ID: CS3R1, Name: 23020102, Date: 01-Feb-2023, Time: 10:37:16, Conditions: AUTOSPEC01, User: pk

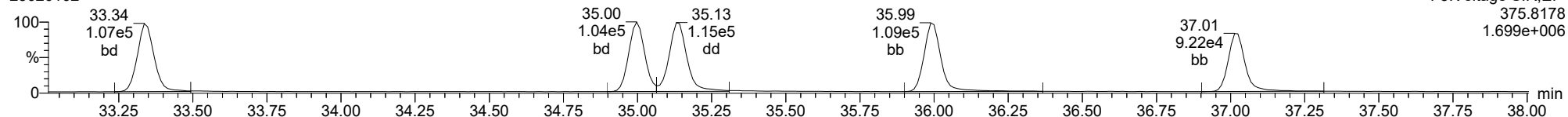
Total-hexafurans

23020102



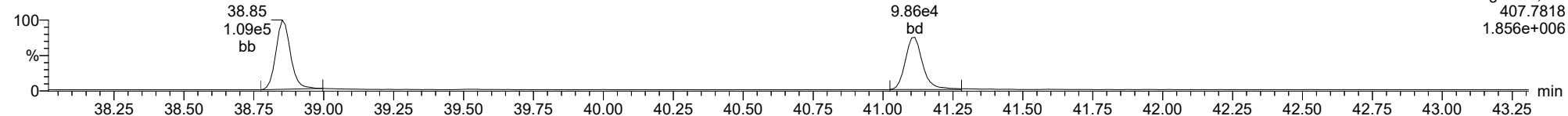
Total-hexafurans

23020102



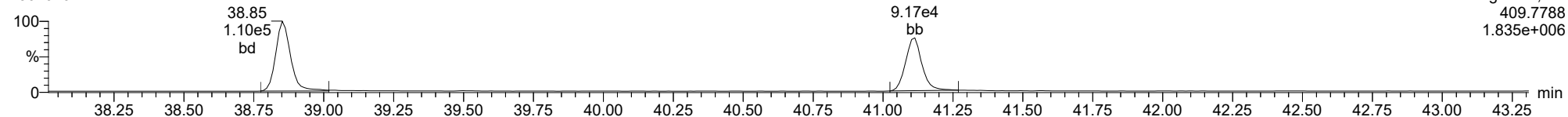
Total-heptafurans

23020102

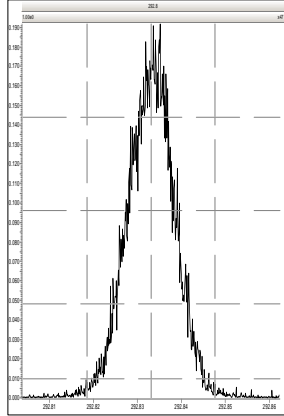


Total-heptafurans

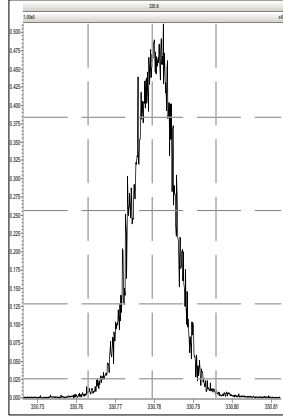
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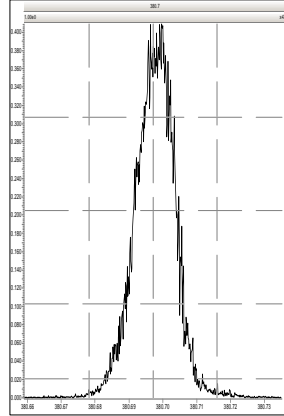
M 292.9824 R 11917



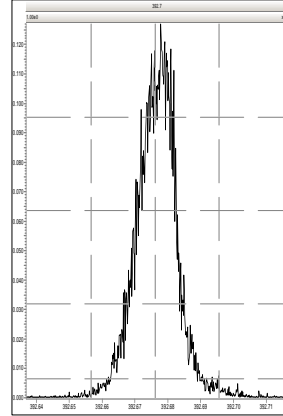
M 330.9792 R 13588



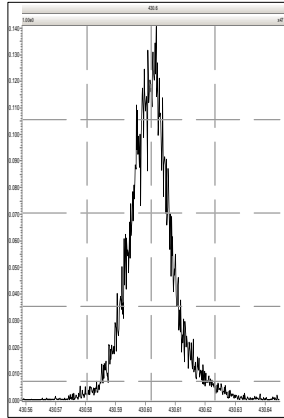
M 380.9760 R 14418



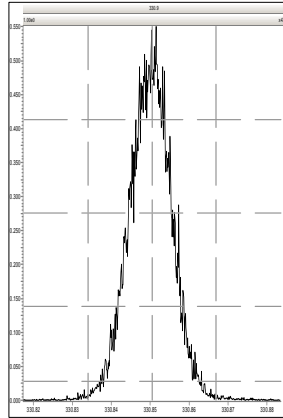
M 392.9760 R 14368



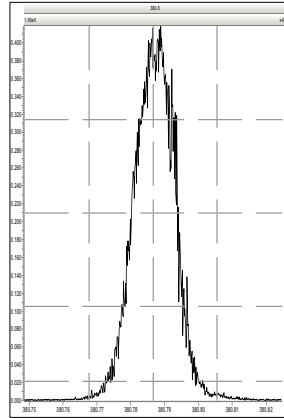
M 430.9728 R 12136



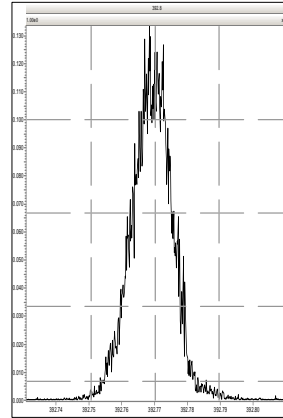
M 330.9792 R 13710



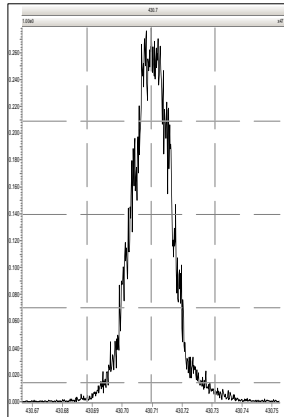
M 380.9760 R 14367



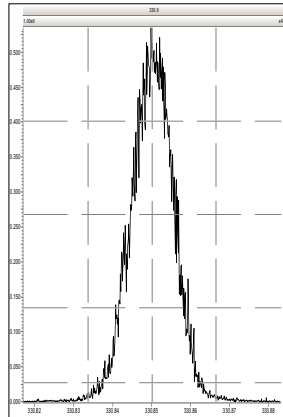
M 392.9760 R 14398



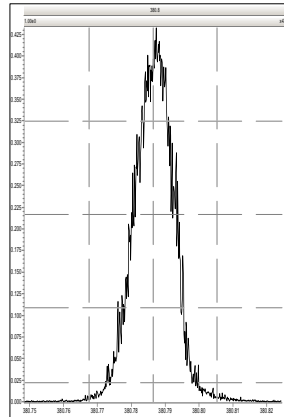
M 430.9728 R 13606



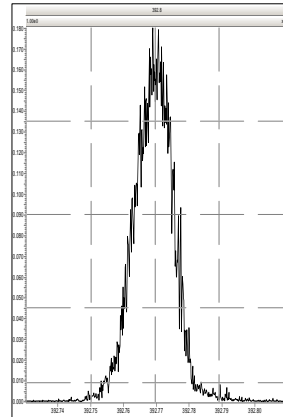
M 330.9792 R 13406



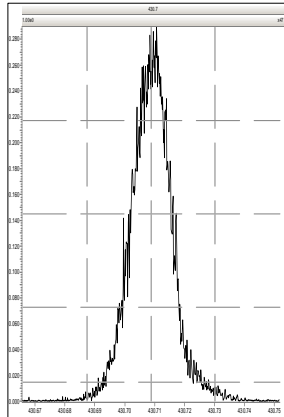
M 380.9760 R 14285



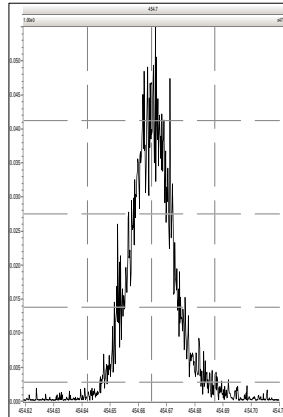
M 392.9760 R 14764



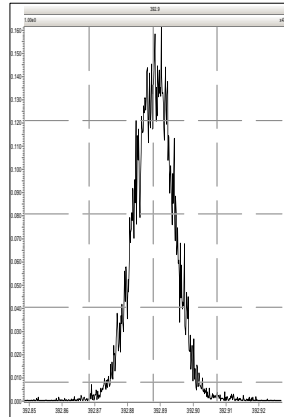
M 430.9728 R 13909



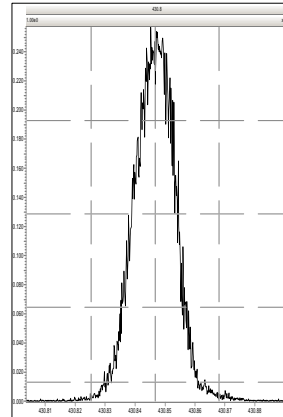
M 454.9728 R 12891



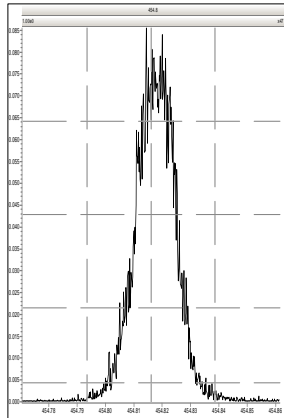
M 392.9760 R 14627



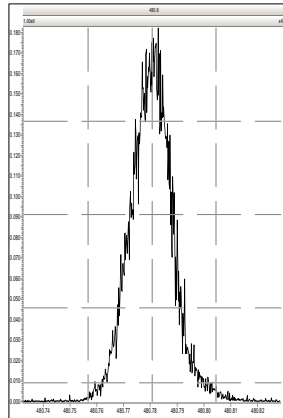
M 430.9728 R 14577



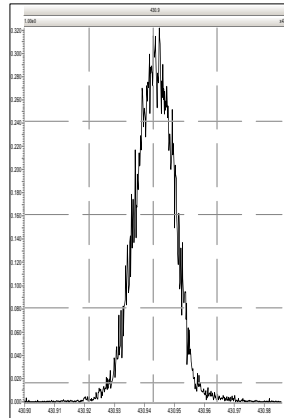
M 454.9728 R 14287



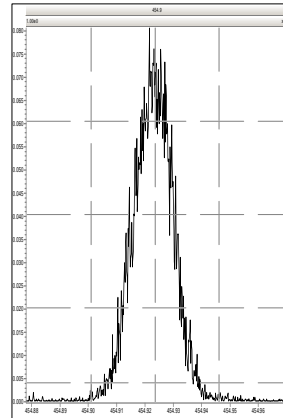
M 480.9696 R 13699



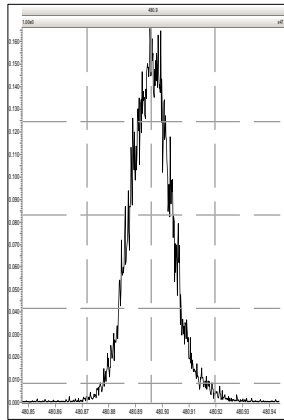
M 430.9728 R 15291



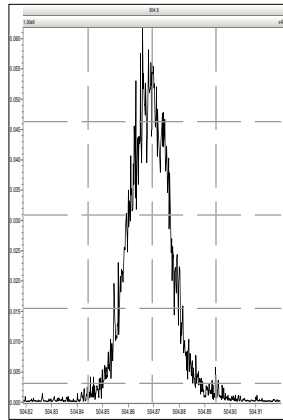
M 454.9728 R 15060



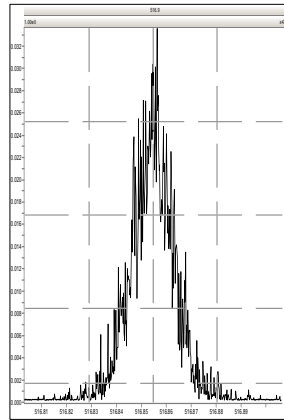
M 480.9696 R 13303



M 504.9696 R 14166



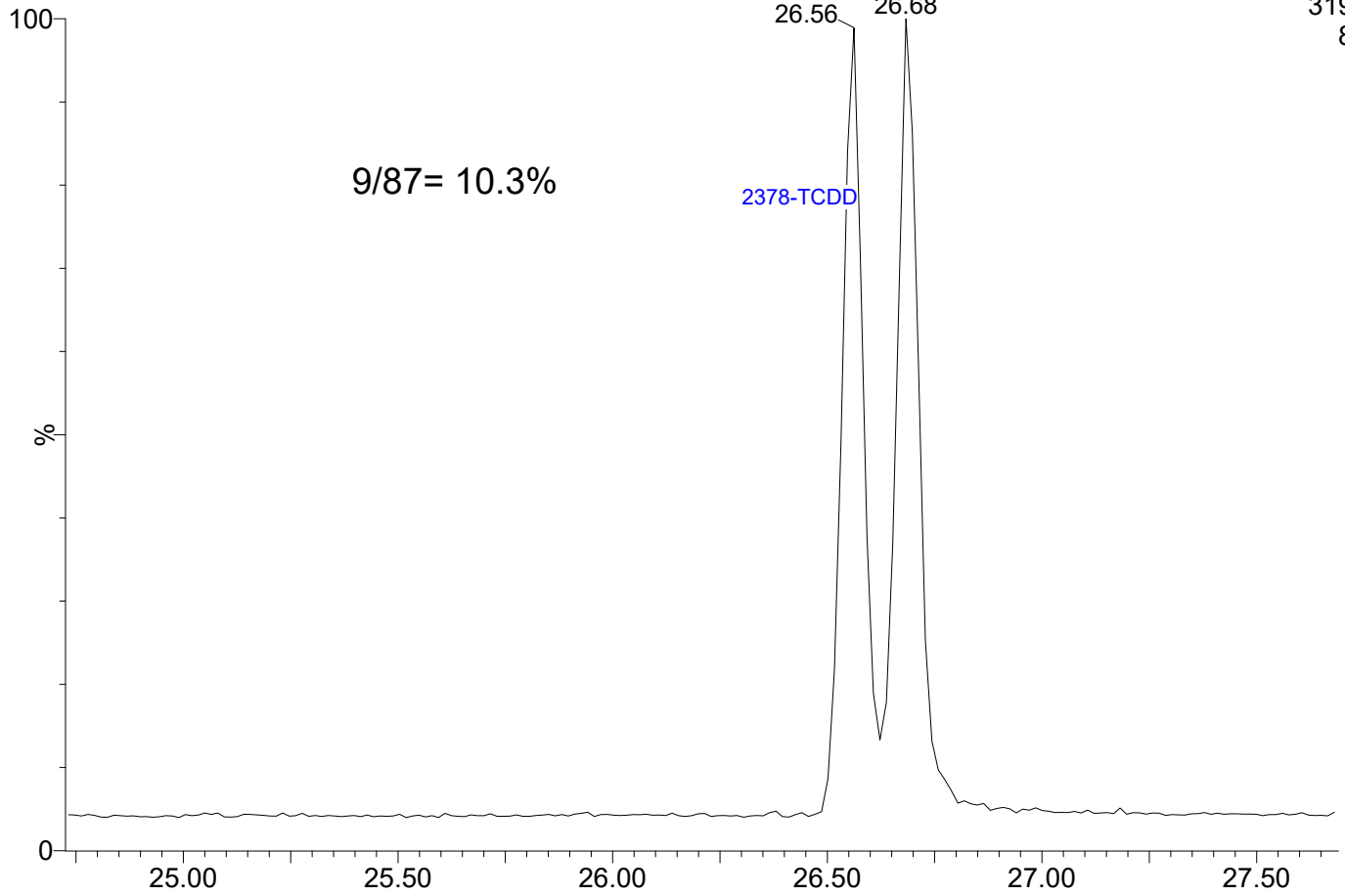
M 516.9697 R 14534



23020103

1: Voltage SIR 15 Channels EI+

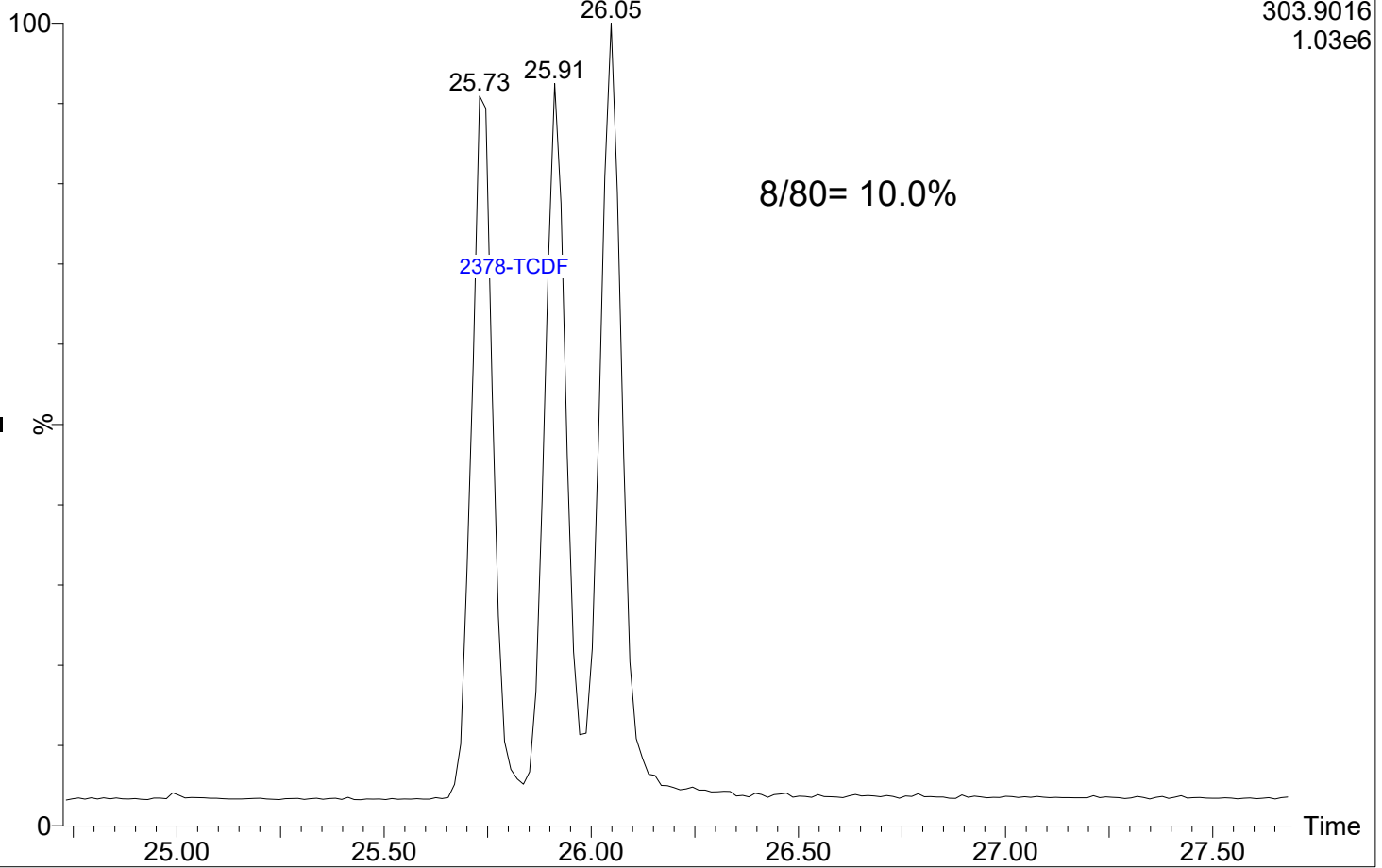
319.8965
8.22e5



23020103

1: Voltage SIR 15 Channels EI+

303.9016
1.03e6



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

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 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 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

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

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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

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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	46.30	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

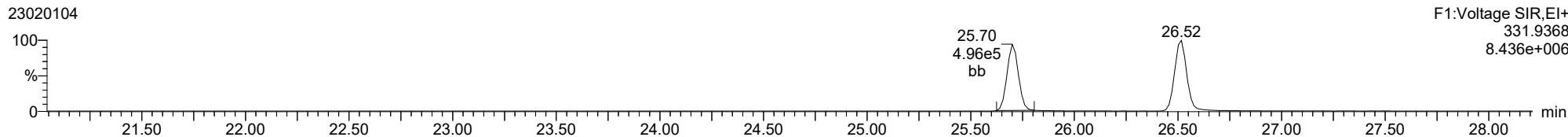
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld
Last Altered: Friday, February 03, 2023 10:33:40 Pacific Standard Time
Printed: Friday, February 03, 2023 10:36:56 Pacific Standard Time

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

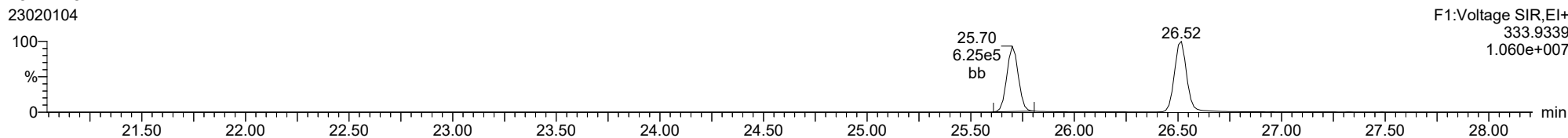
13C-1234-TCDD

23020104



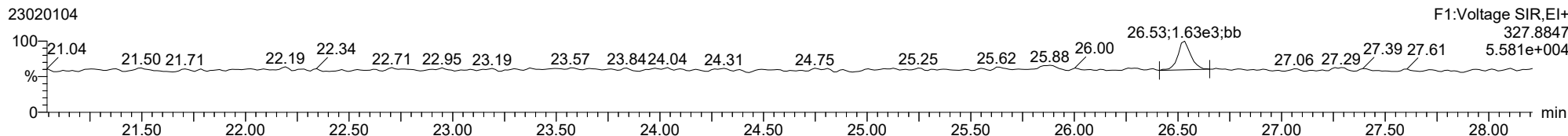
13C-1234-TCDD

23020104



37CL-2378-TCDD

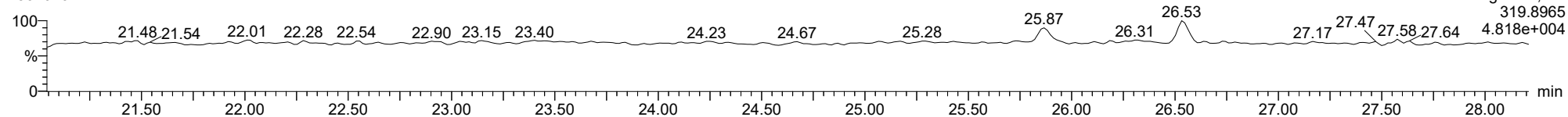
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

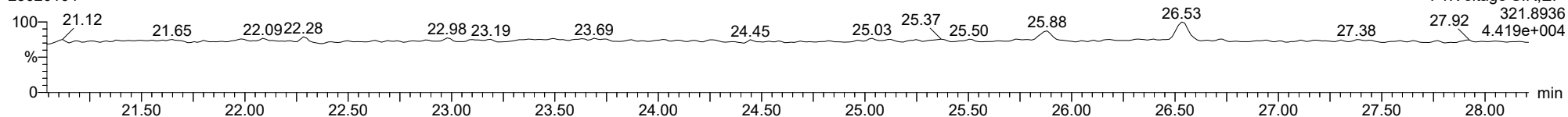
2378-TCDD

23020104



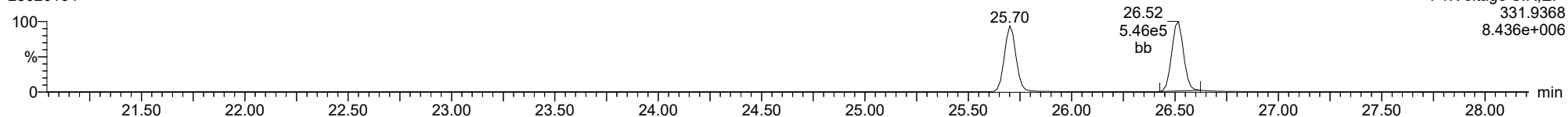
2378-TCDD

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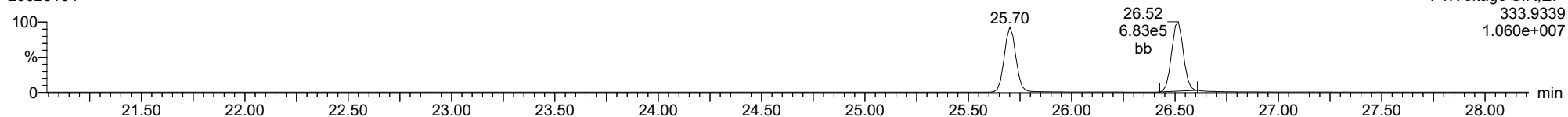
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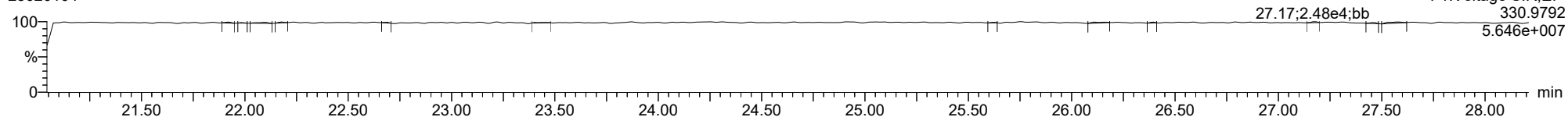
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23020104



FUNCTION1 PFK

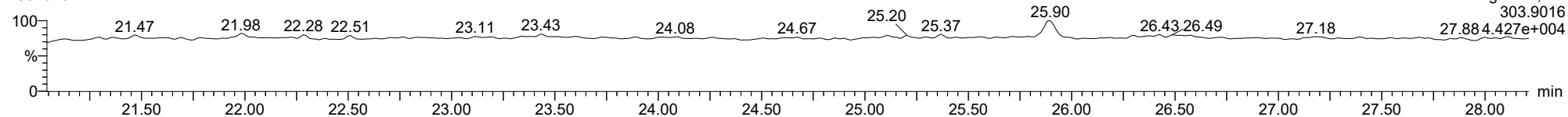
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

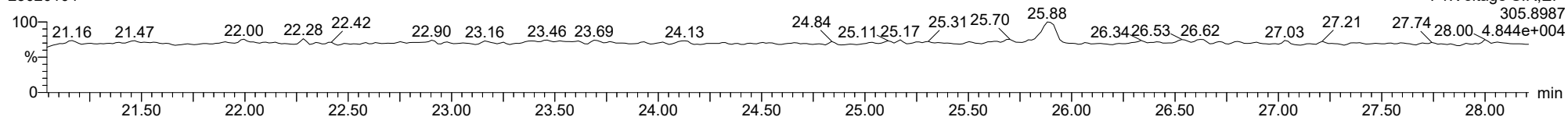
2378-TCDF

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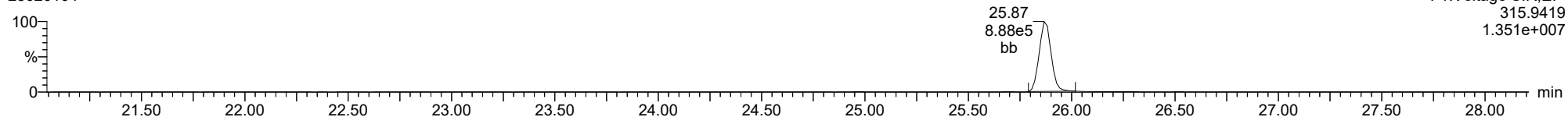
2378-TCDF

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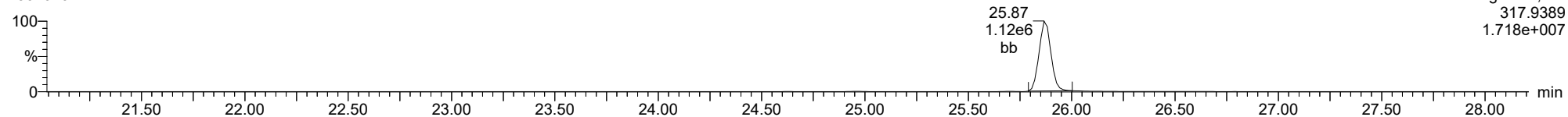
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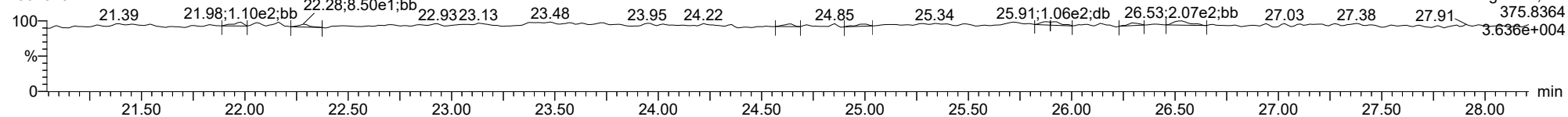
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23020104



FUNCTION1 HXCDPE

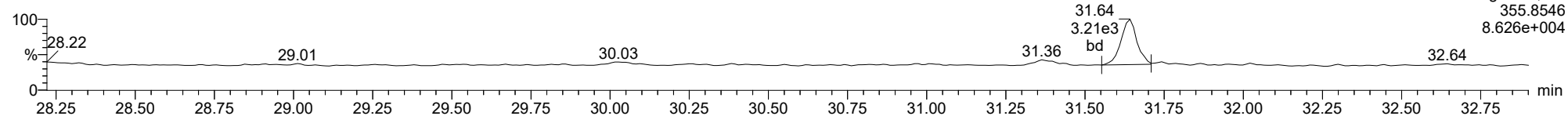
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

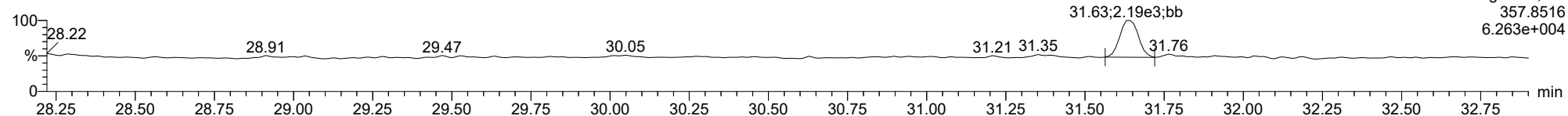
12378-PeCDD

23020104



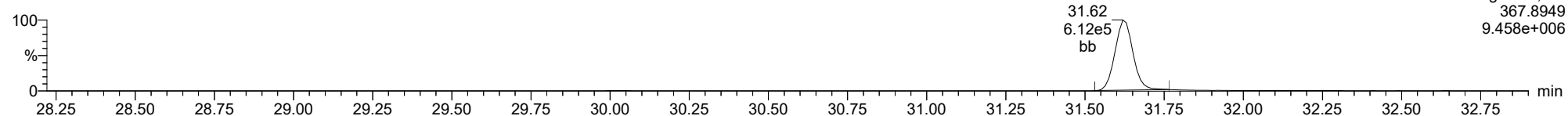
12378-PeCDD

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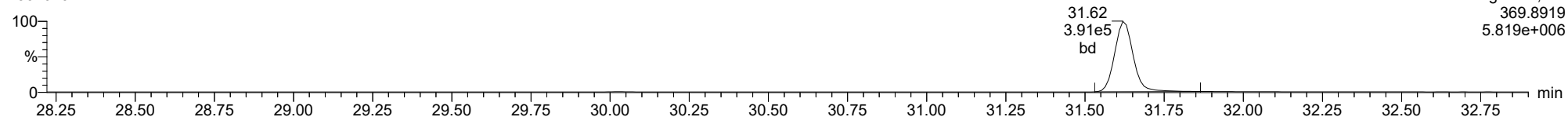
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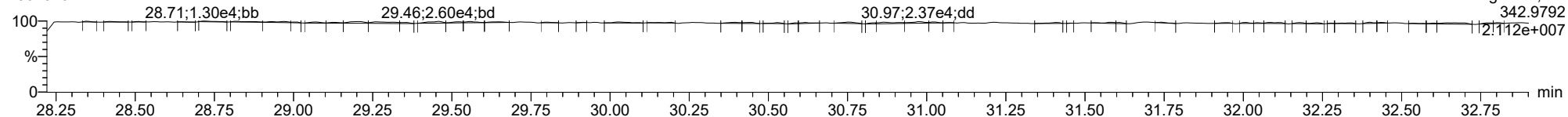
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23020104



FUNCTION2 PFK

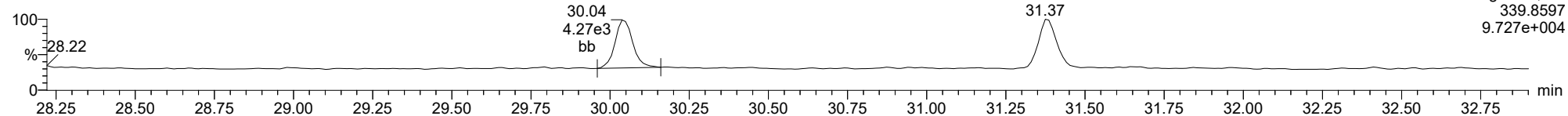
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

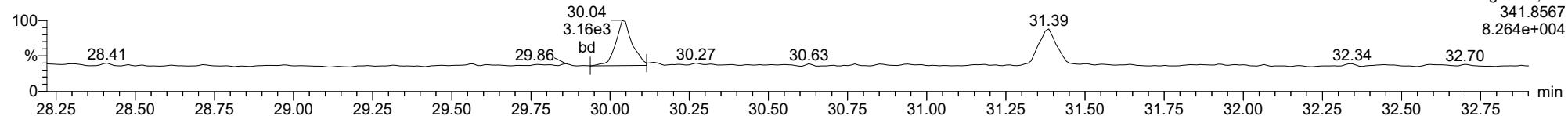
12378-PeCDF

23020104



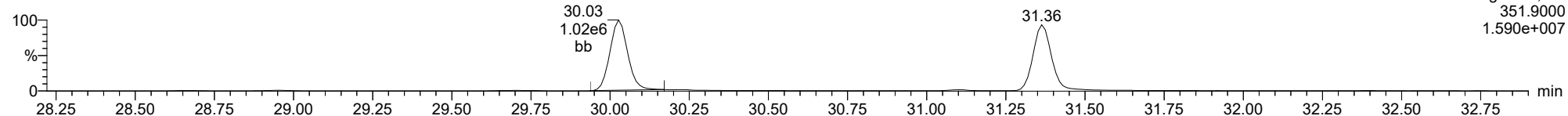
12378-PeCDF

23020104



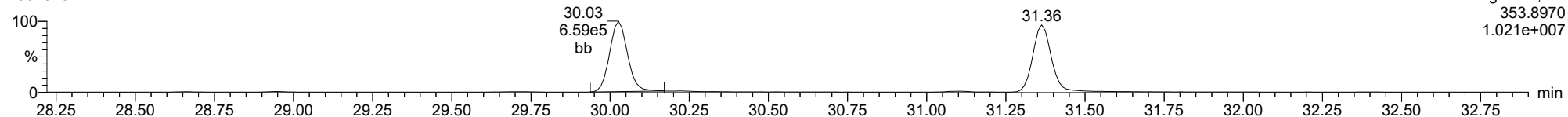
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23020104



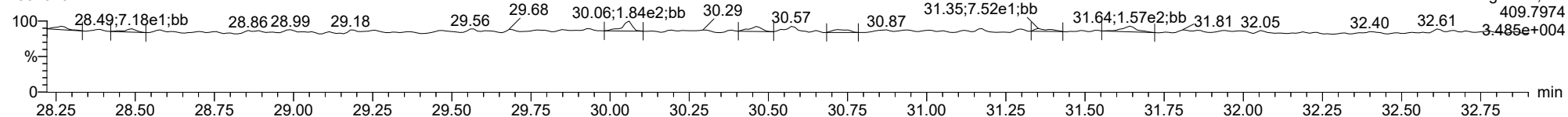
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23020104



FUNCTION2 HPCDPE

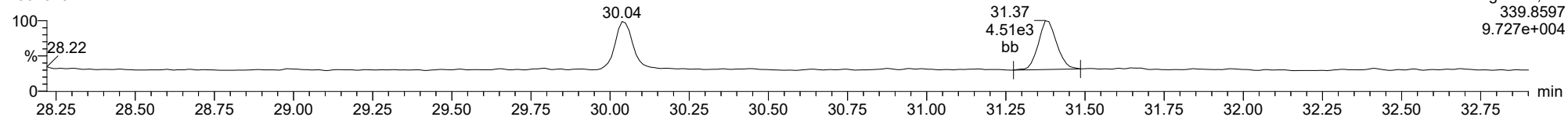
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

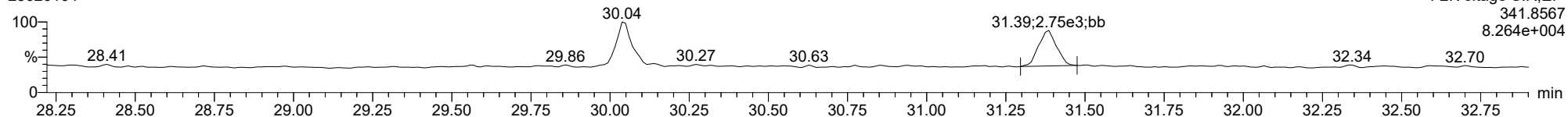
23478-PeCDF

23020104



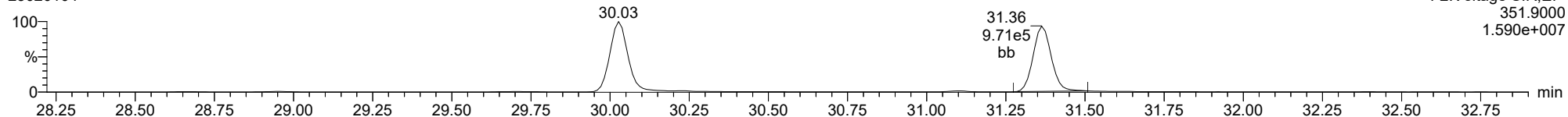
23478-PeCDF

23020104



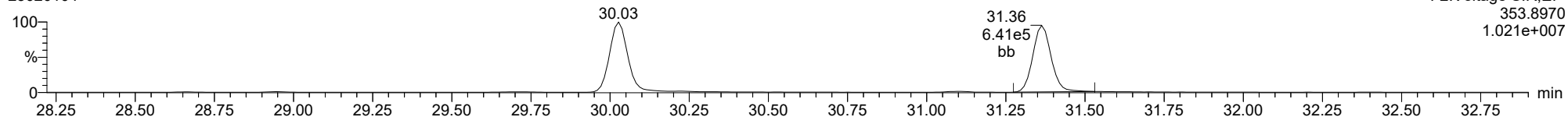
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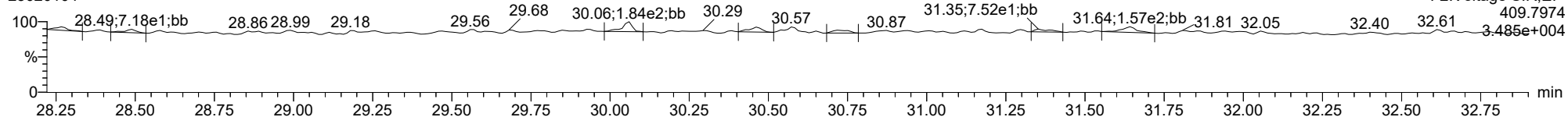
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FUNCTION2 HPCDPE

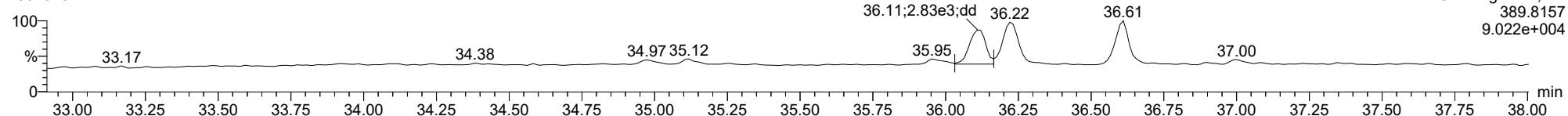
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

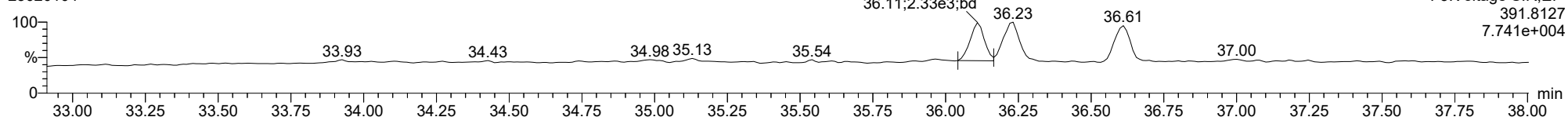
123478-HxCDD

23020104



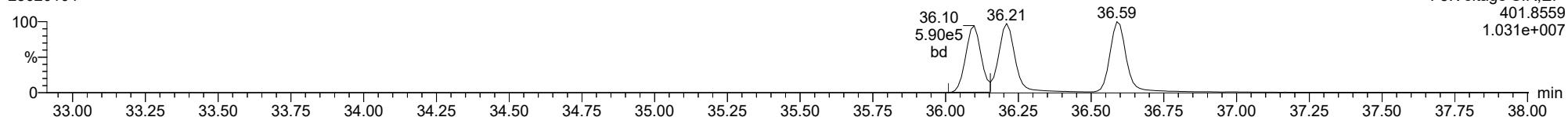
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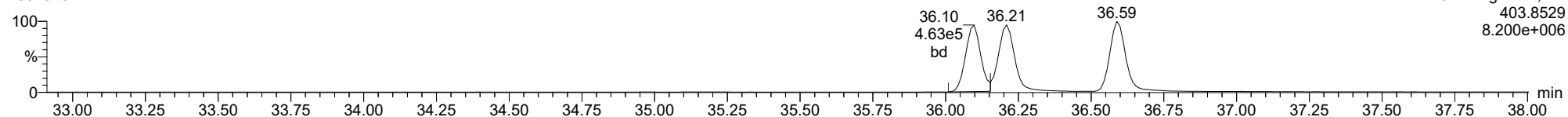
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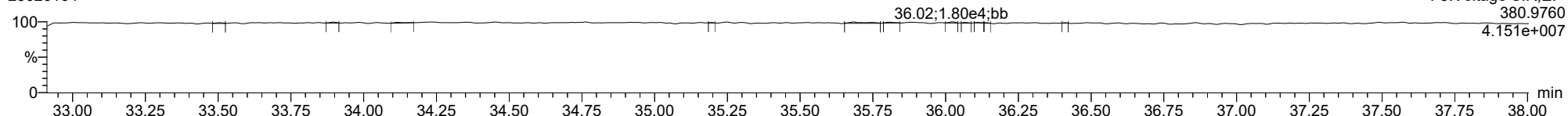
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FUNCTION3 PFK

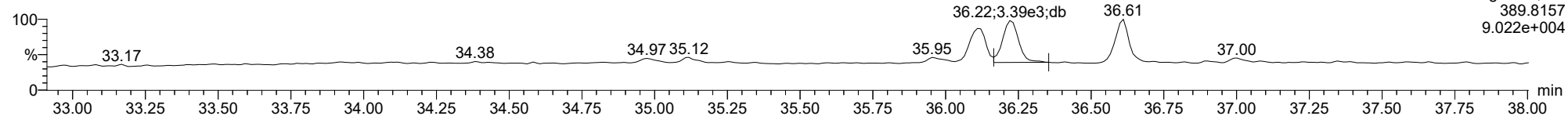
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

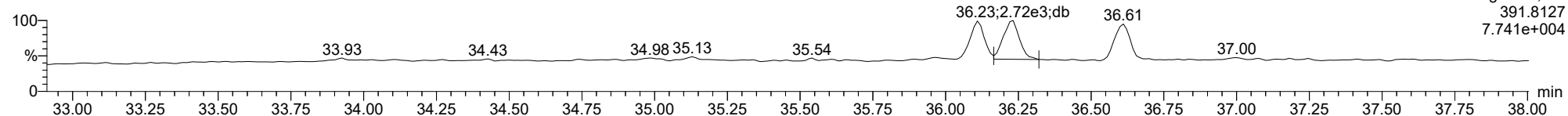
123678-HxCDD

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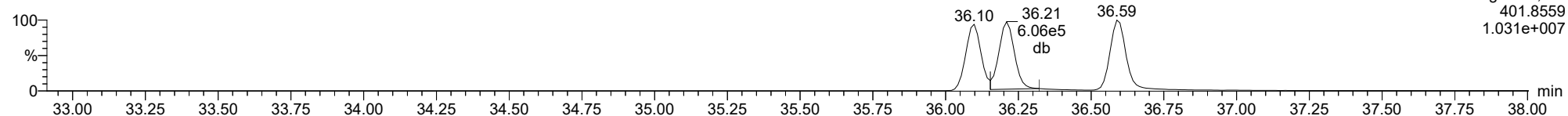
123678-HxCDD

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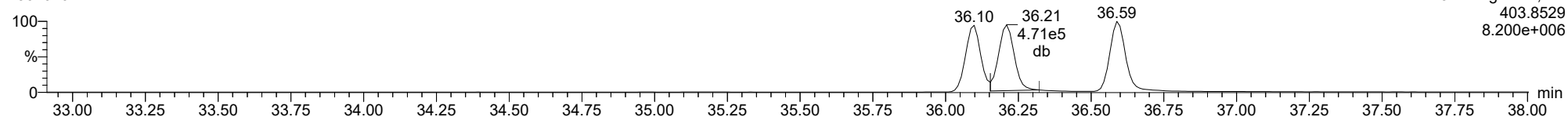
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23020104



13C-123678-HxCDD

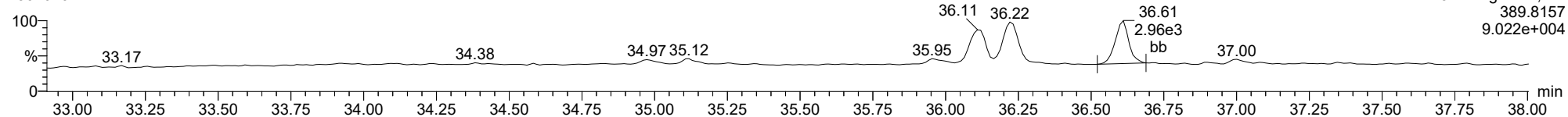
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

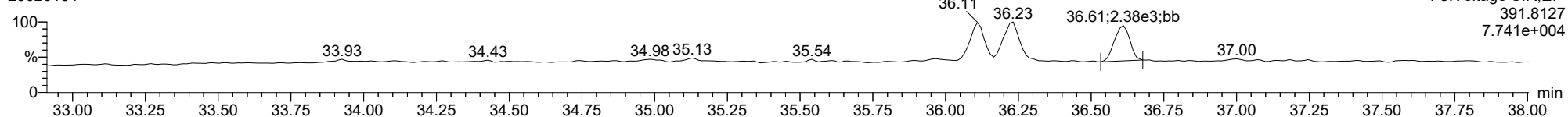
123789-HxCDD

23020104



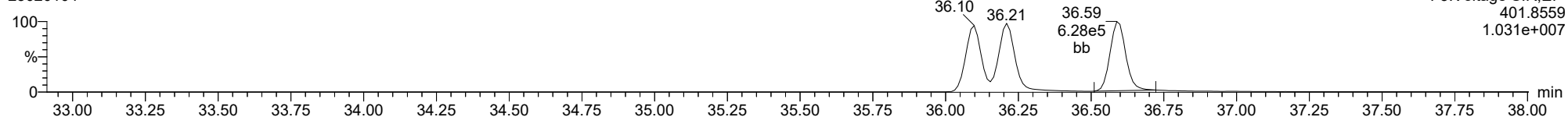
123789-HxCDD

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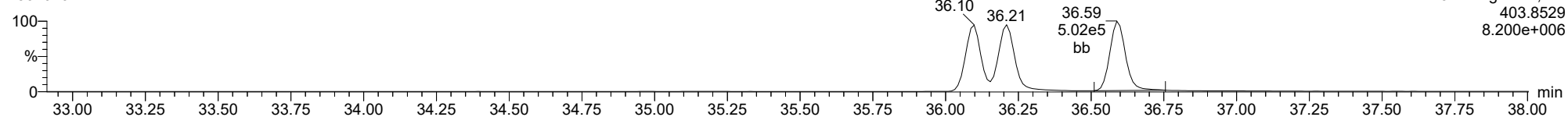
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23020104



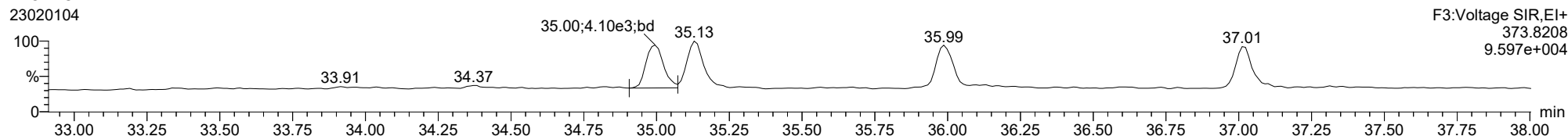
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23020104

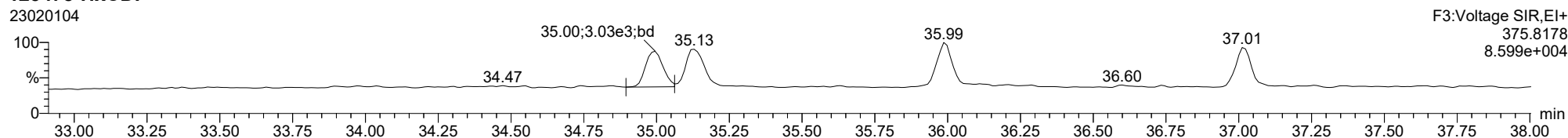


ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

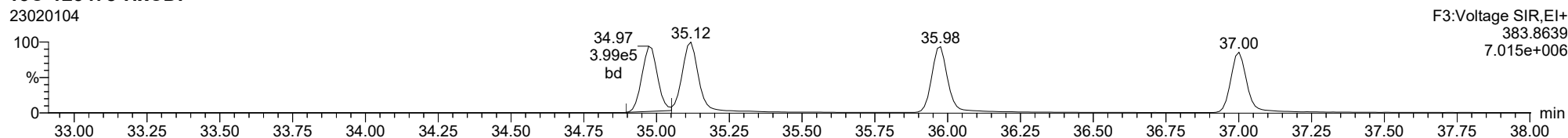
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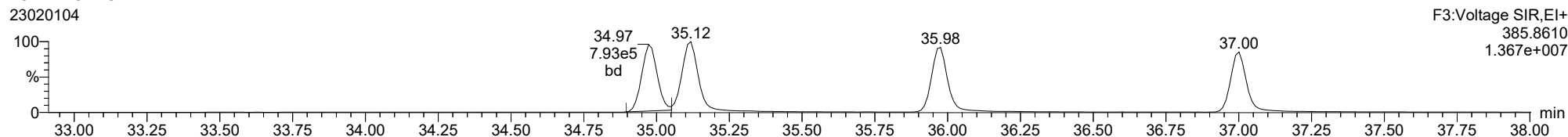
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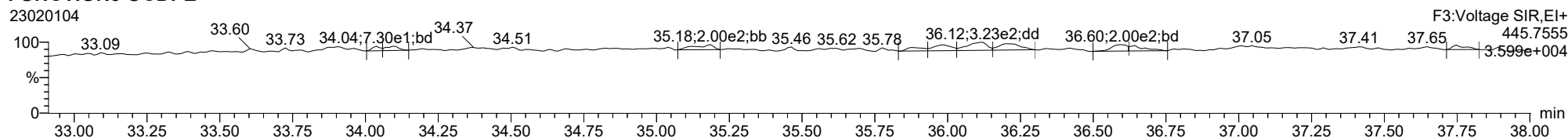
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13C-123478-HxCDF



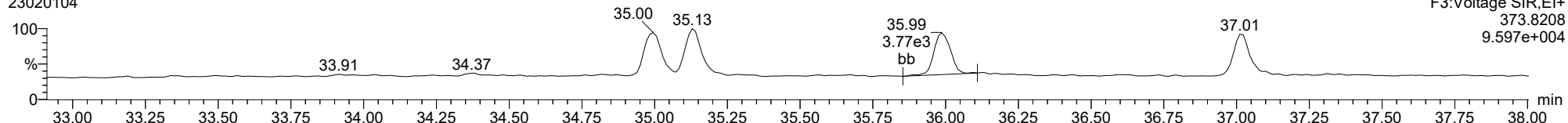
FUNCTION3 OCDPE



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

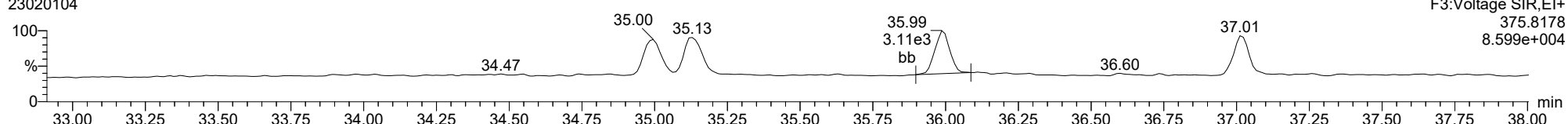
234678-HxCDF

23020104



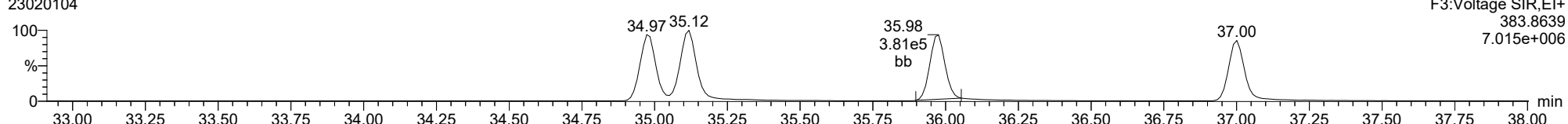
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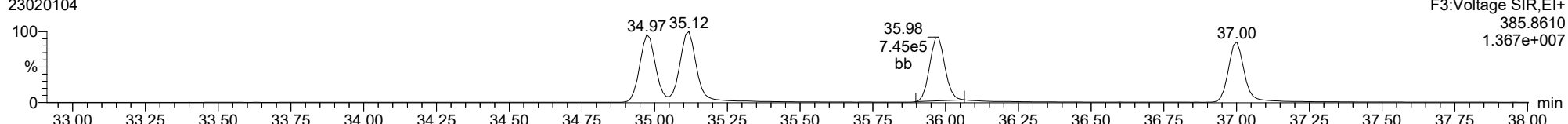
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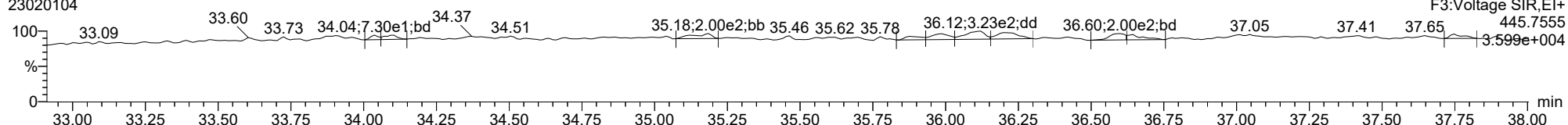
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23020104



FUNCTION3 OCDPE

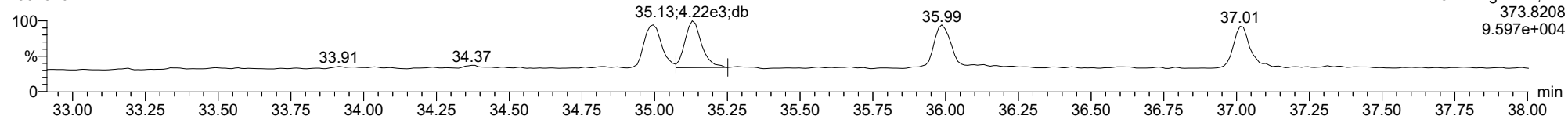
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

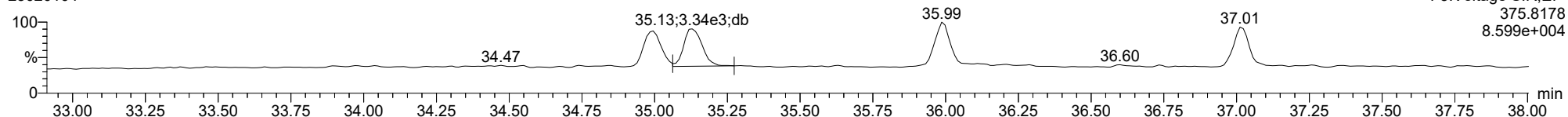
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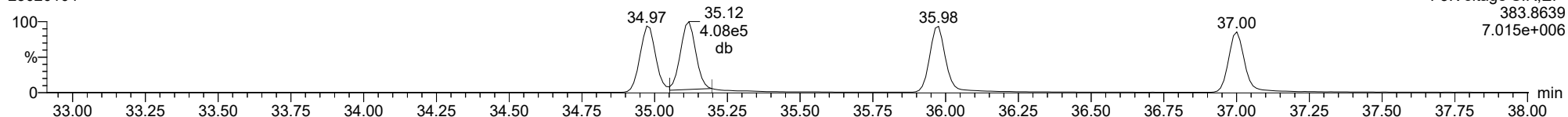
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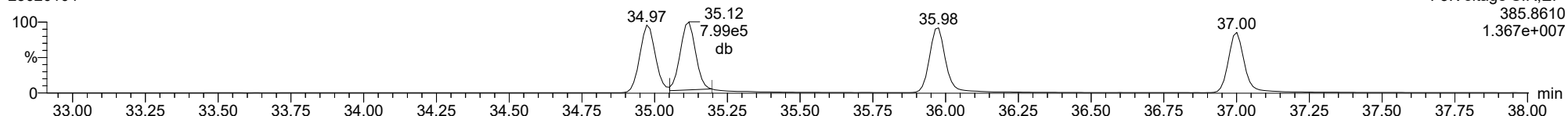
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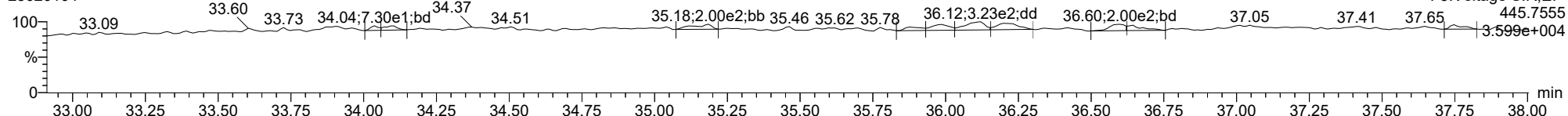
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23020104



FUNCTION3 OCDPE

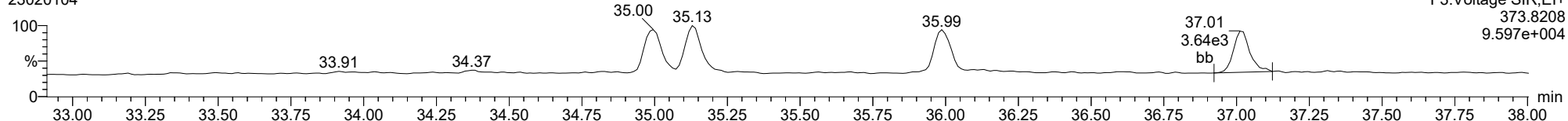
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ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

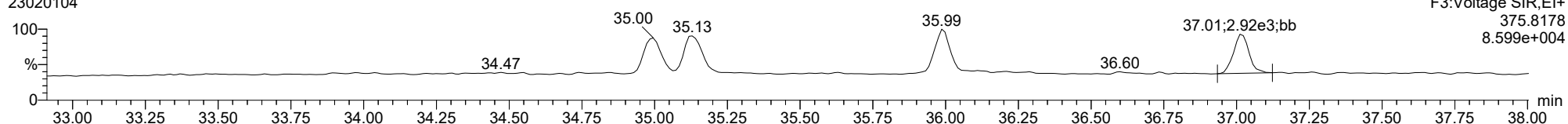
123789-HxCDF

23020104



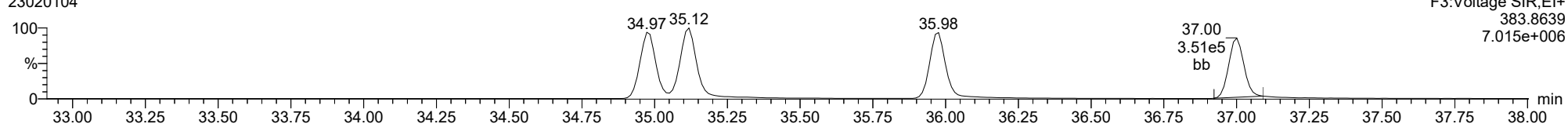
123789-HxCDF

23020104



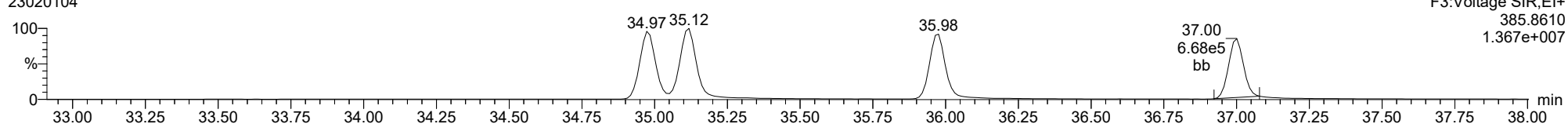
13C-123789-HxCDF

23020104



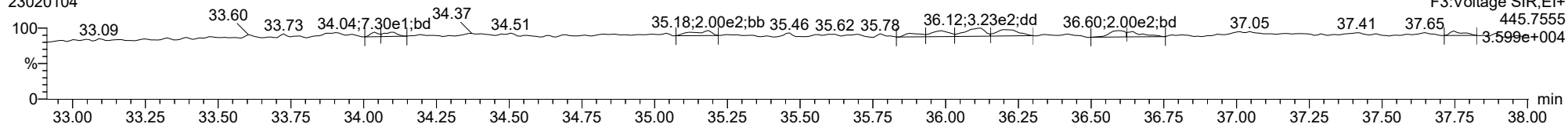
13C-123789-HxCDF

23020104



FUNCTION3 OCDPE

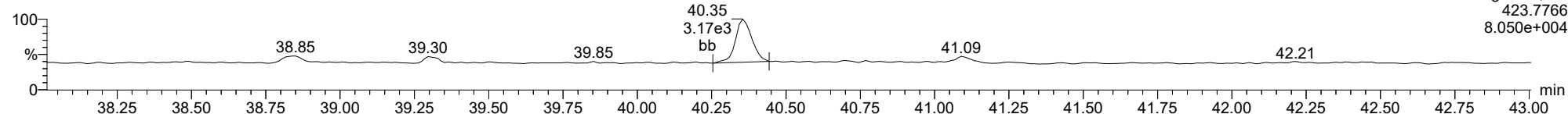
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

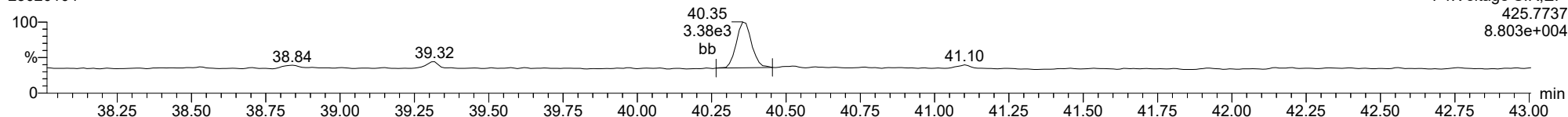
1234678-HpCDD

23020104



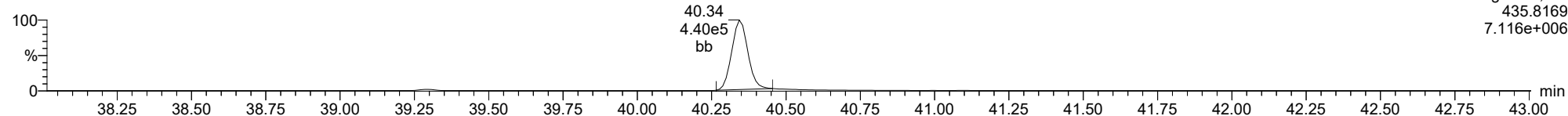
1234678-HpCDD

23020104



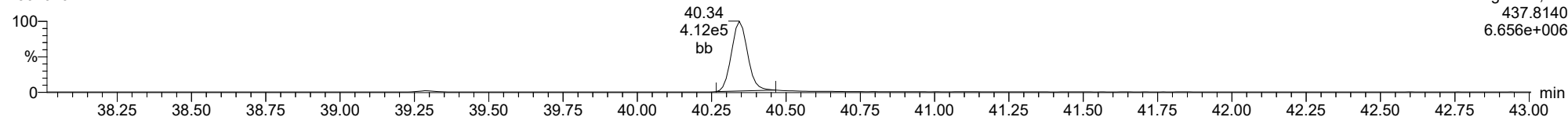
13C-1234678-HpCDD

23020104



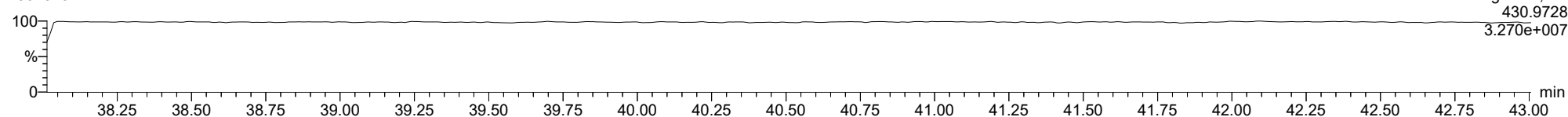
13C-1234678-HpCDD

23020104



FUNCTION4 PFK

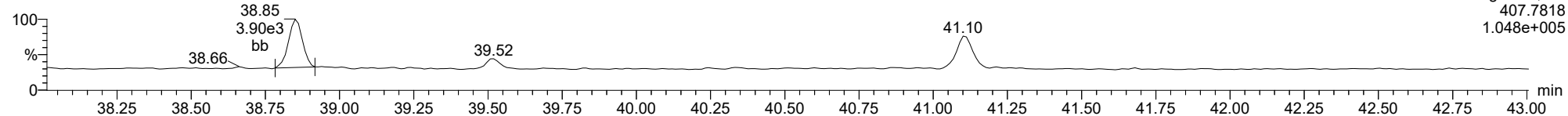
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

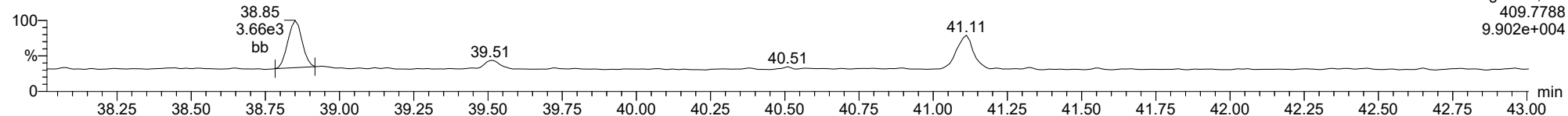
1234678-HpCDF

23020104



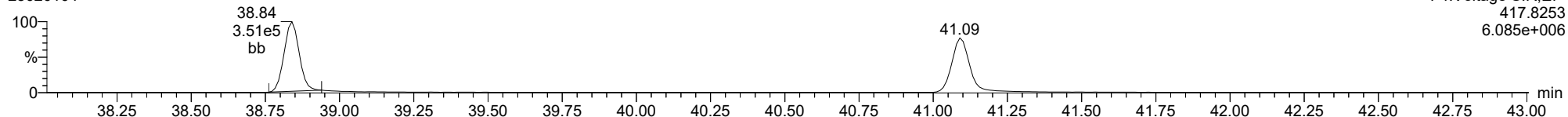
1234678-HpCDF

23020104



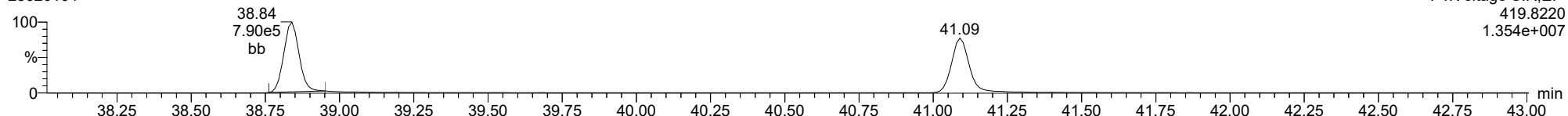
13C-1234678-HpCDF

23020104



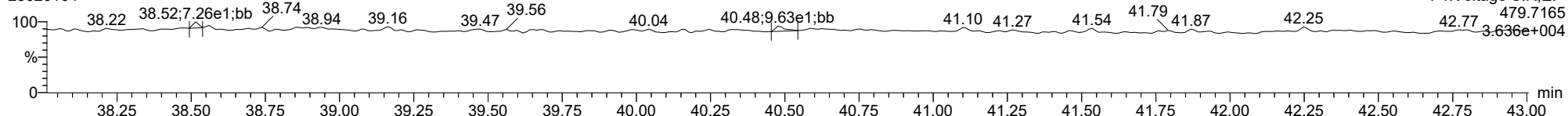
13C-1234678-HpCDF

23020104



FUNCTION4 NCDPE

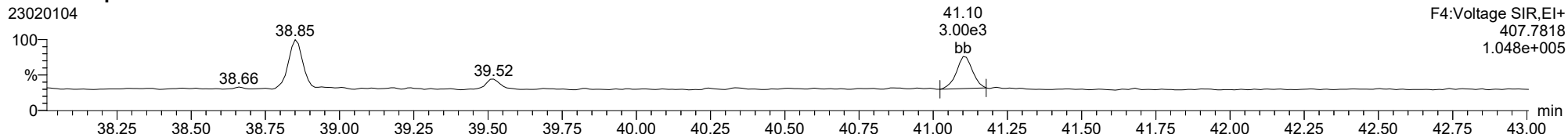
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

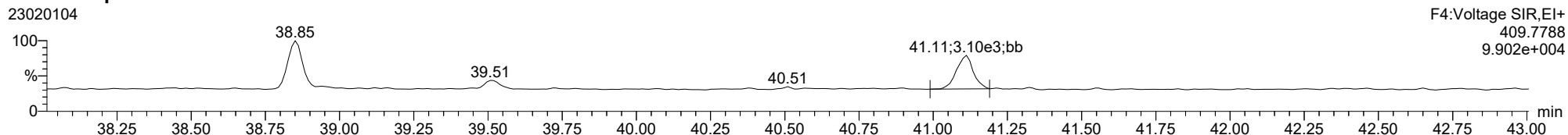
1234789-HpCDF

23020104



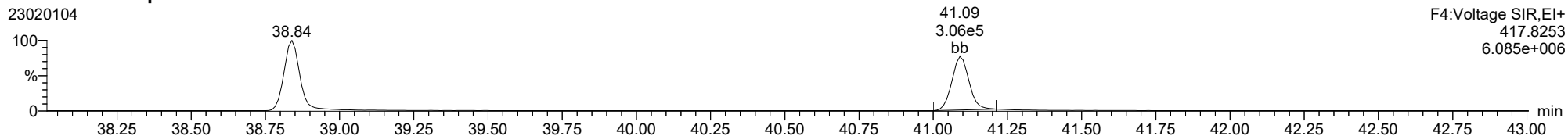
1234789-HpCDF

23020104



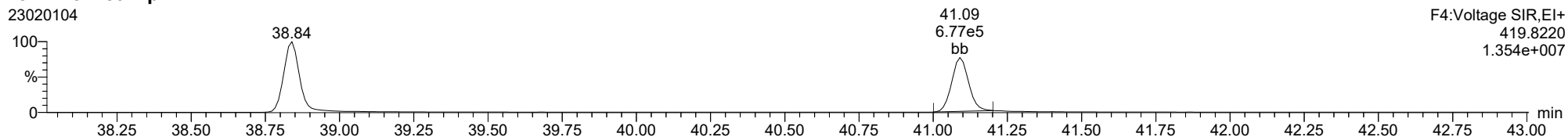
13C-1234789-HpCDF

23020104



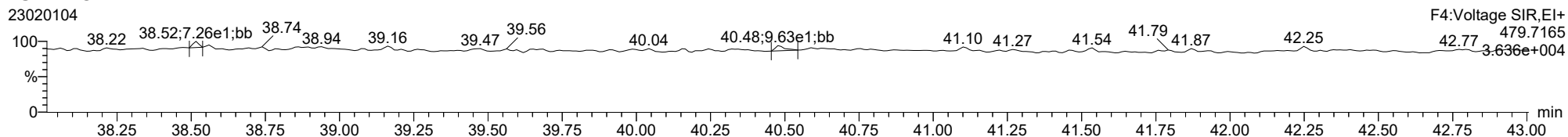
13C-1234789-HpCDF

23020104



FUNCTION4 NCDPE

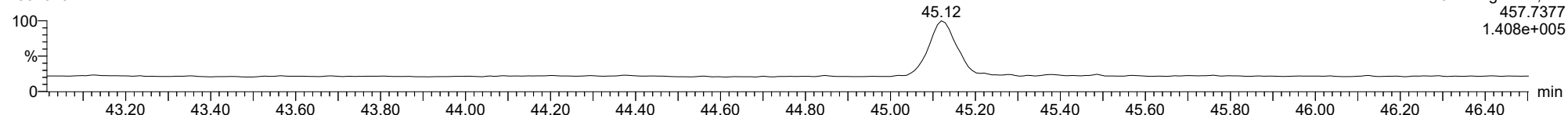
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

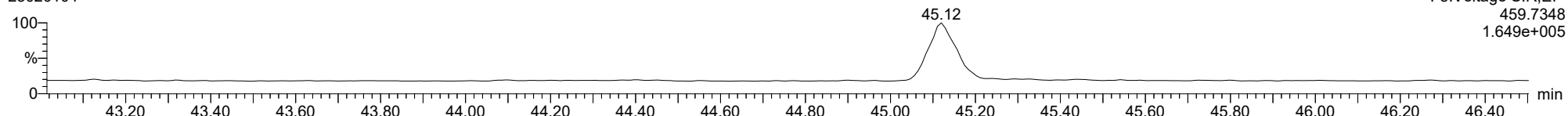
OCDD

23020104



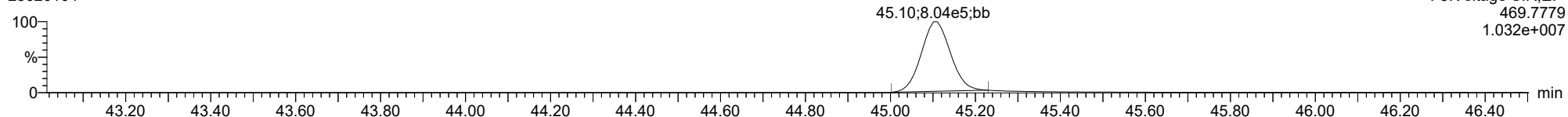
OCDD

23020104



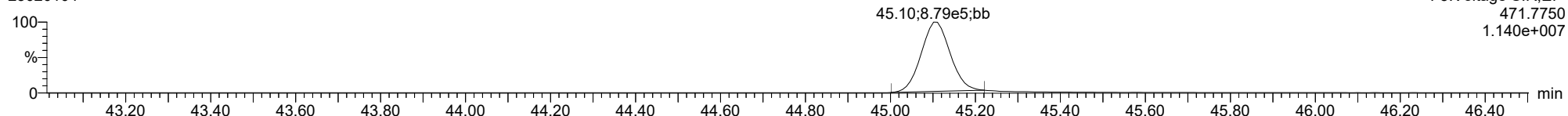
13C-OCDD

23020104



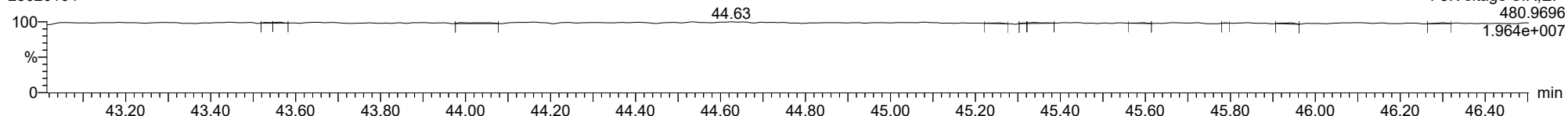
13C-OCDD

23020104



FUNCTION5 PFK

23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

OCDF

23020104

100
%
0

45.38;5.79e3;bb

45.73

F5:Voltage SIR,EI+
441.7428
1.050e+005

OCDF

23020104

100
%
0

45.37;6.87e3;bd

43.12

F5:Voltage SIR,EI+
443.7399
1.139e+005

FUNCTION5 DCDPE

23020104

100
%
0

44.14;44.32;8.85e1;bb

44.87

44.95

45.14

45.43

45.58

45.78

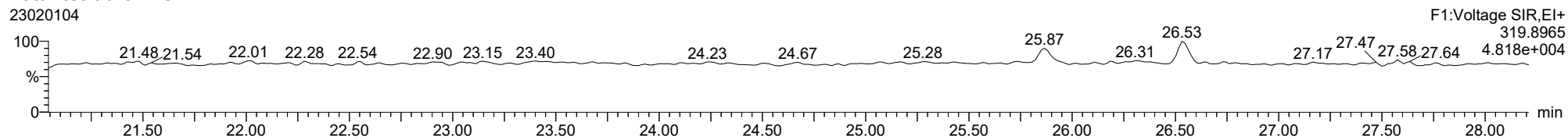
46.01

F5:Voltage SIR,EI+
461.513.6775
3.440e+004

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

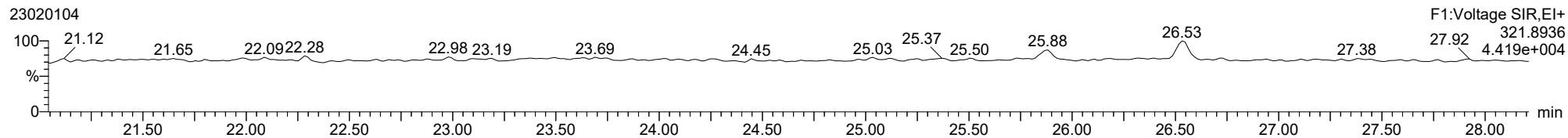
Total-tetradoxins

23020104



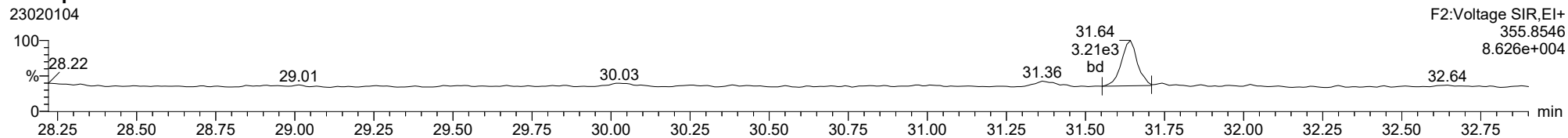
Total-tetradoxins

23020104



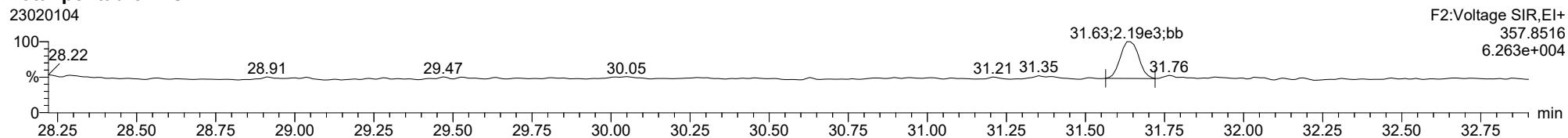
Total-pentadoxins

23020104



Total-pentadoxins

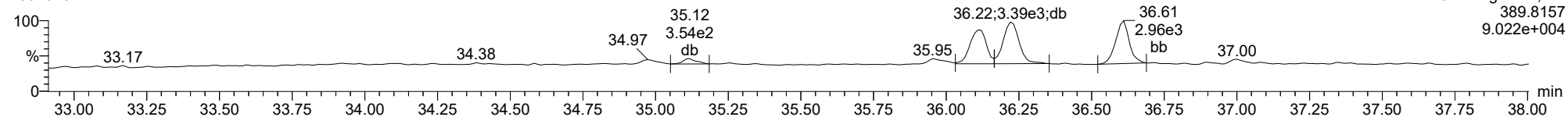
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

Total-hexadioxins

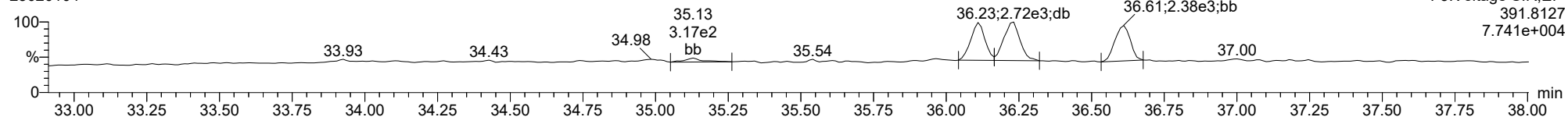
23020104



F3:Voltage SIR,EI+
389.8157
9.022e+004

Total-hexadioxins

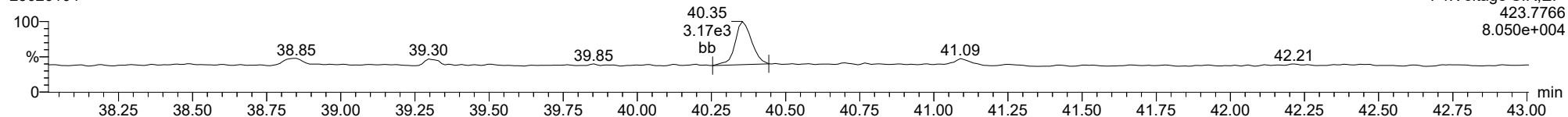
23020104



F3:Voltage SIR,EI+
391.8127
7.741e+004

Total-heptadioxins

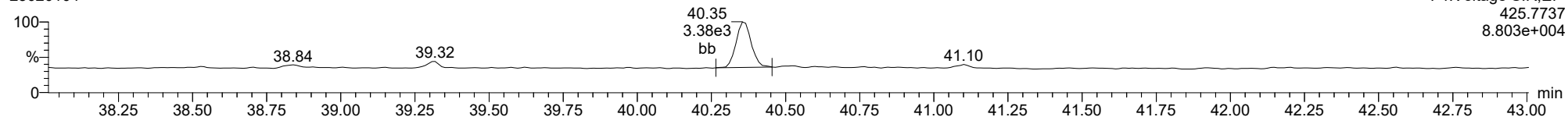
23020104



F4:Voltage SIR,EI+
423.7766
8.050e+004

Total-heptadioxins

23020104

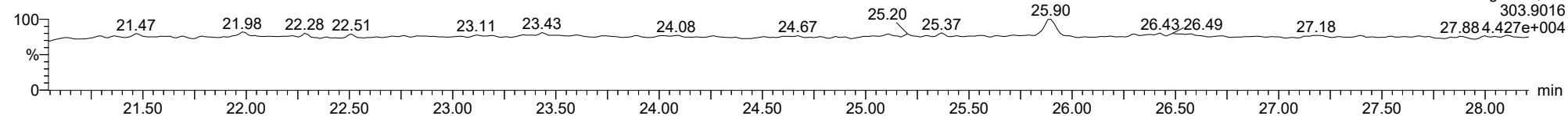


F4:Voltage SIR,EI+
425.7737
8.803e+004

ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

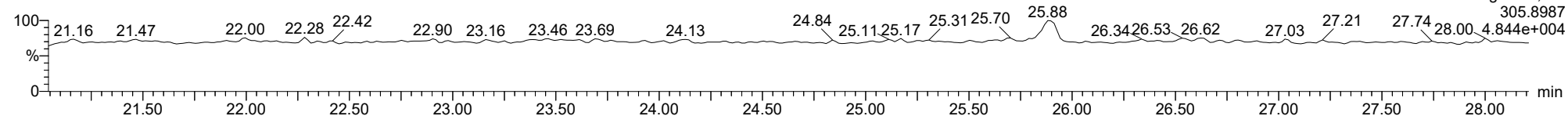
Total-tetrafurans

23020104



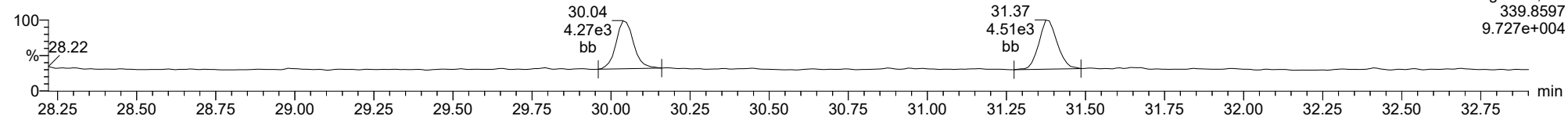
Total-tetrafurans

23020104



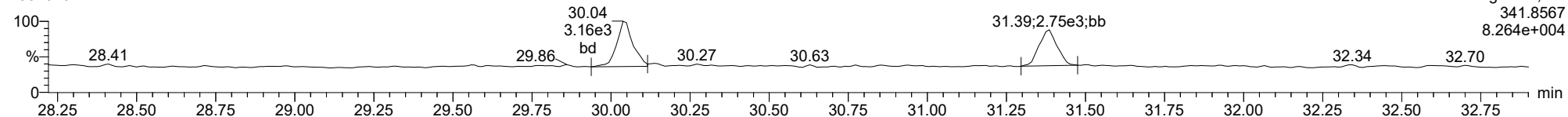
Total-pentafurans

23020104



Total-pentafurans

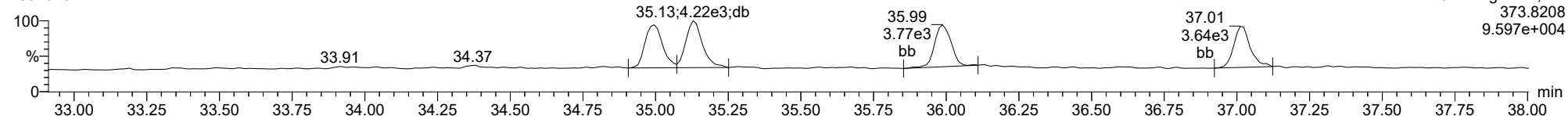
23020104



ID: CSLCR, Name: 23020104, Date: 01-Feb-2023, Time: 14:39:51, Conditions: AUTOSPEC01, User: pk

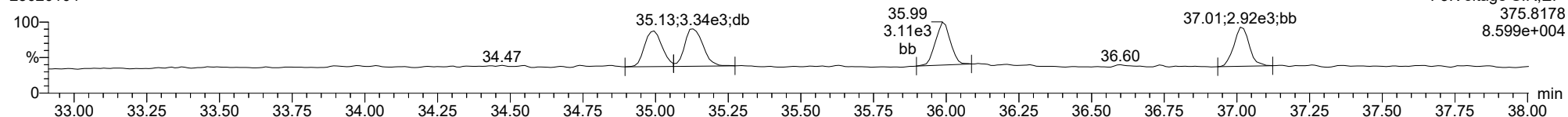
Total-hexafurans

23020104



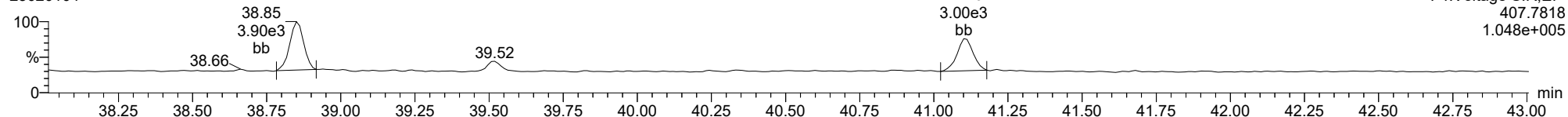
Total-hexafurans

23020104



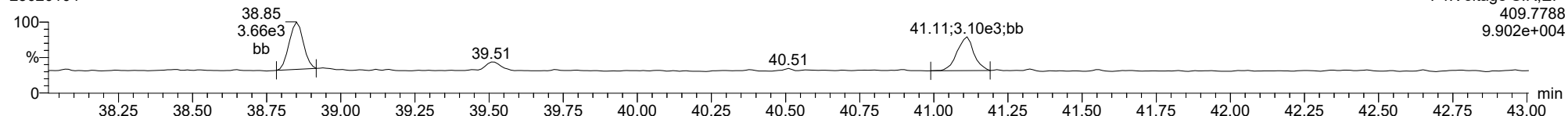
Total-heptafurans

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-tetradioxins	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-pentadioxins	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-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
3	Total-pentadoxins	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-tetradoxins	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-pentadoxins	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

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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

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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

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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\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

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

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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...	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

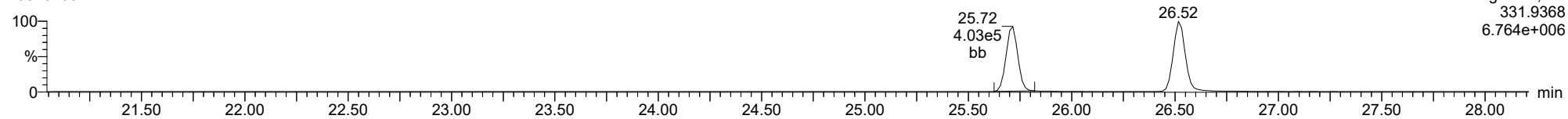
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1													

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

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

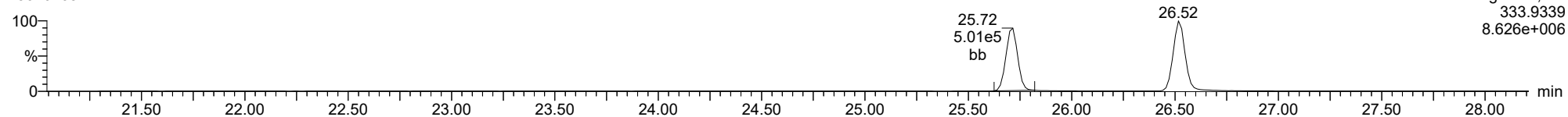
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23020105



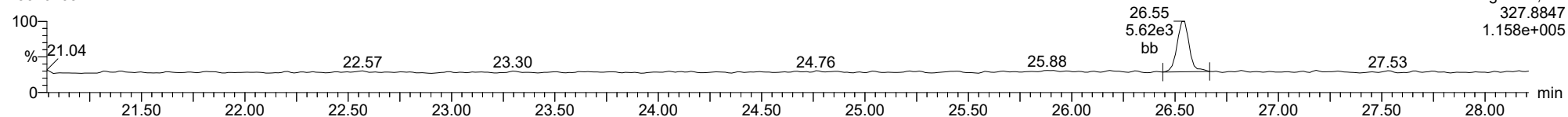
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23020105



37CL-2378-TCDD

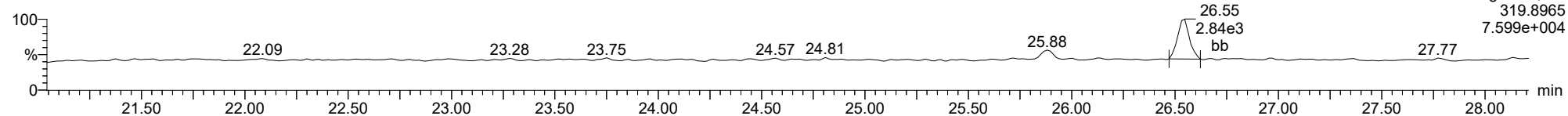
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

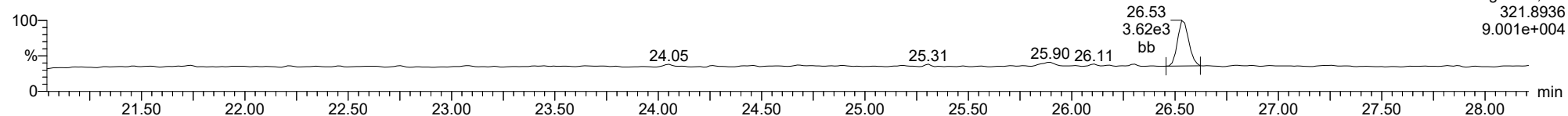
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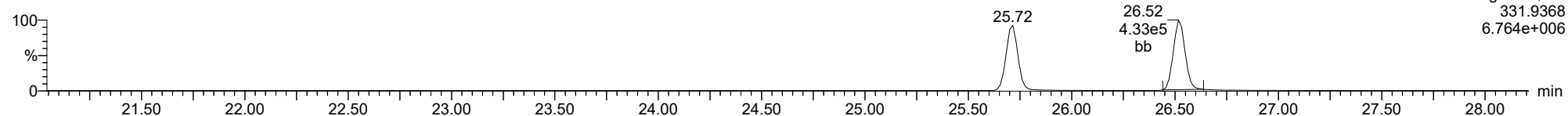
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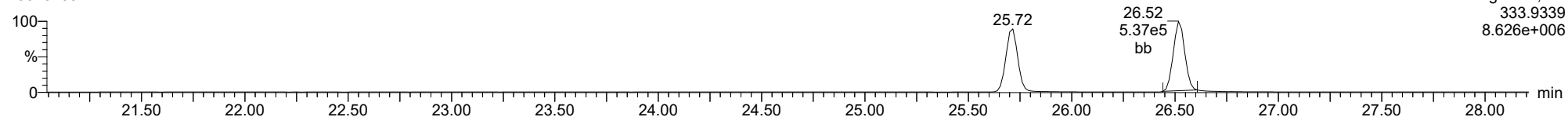
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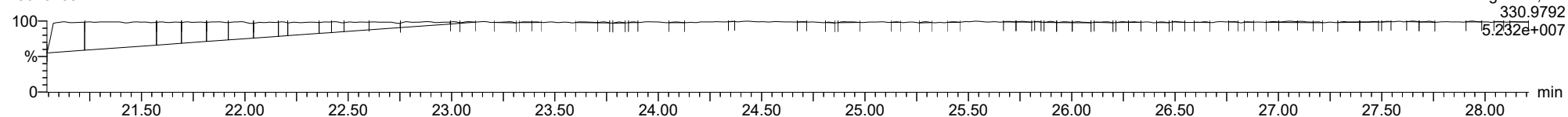
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23020105



FUNCTION1 PFK

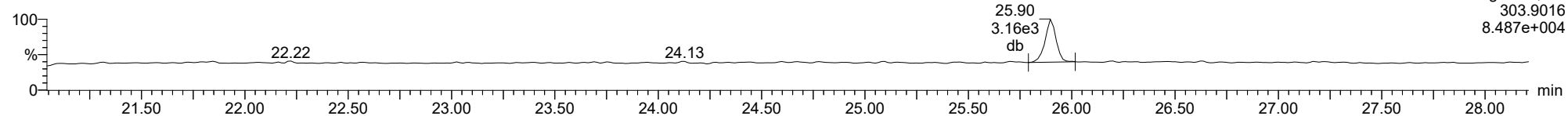
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

2378-TCDF

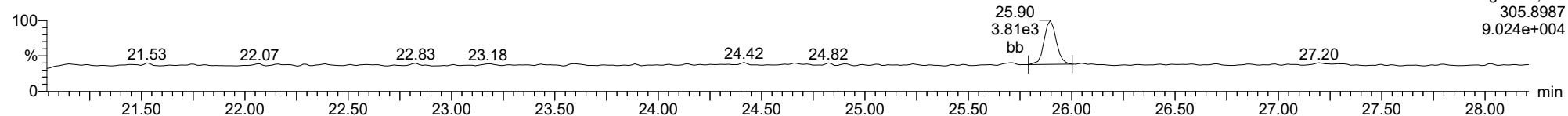
23020105



F1:Voltage SIR,EI+
303.9016
8.487e+004

2378-TCDF

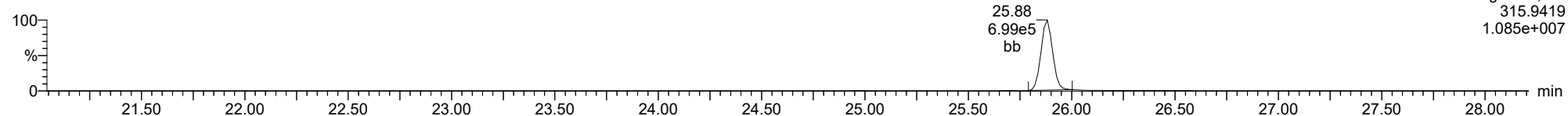
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F1:Voltage SIR,EI+
305.8987
9.024e+004

13C-2378-TCDF

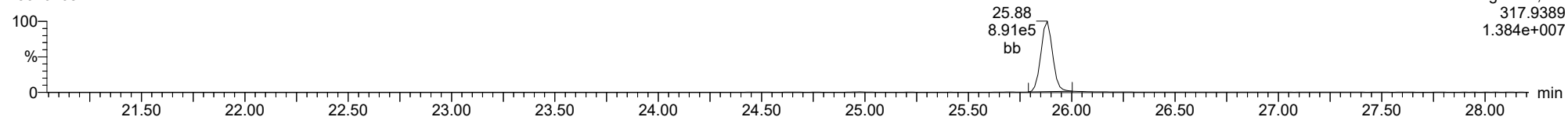
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F1:Voltage SIR,EI+
315.9419
1.085e+007

13C-2378-TCDF

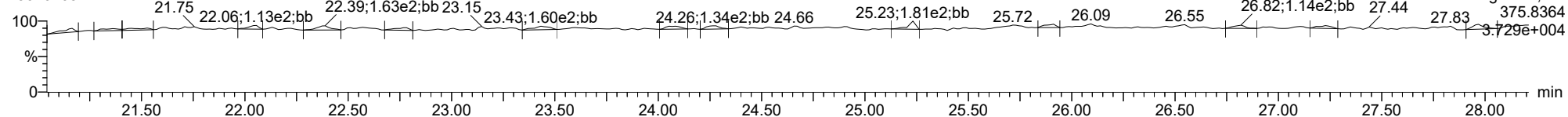
23020105



F1:Voltage SIR,EI+
317.9389
1.384e+007

FUNCTION1 HXCDPE

23020105

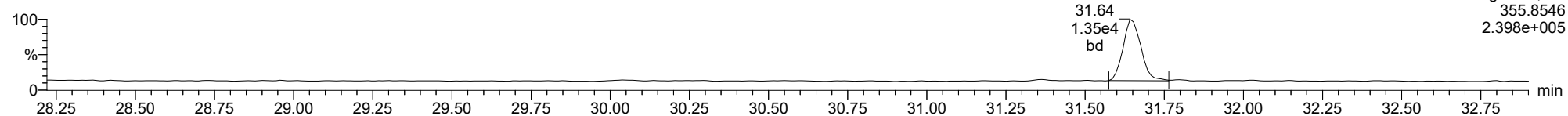


F1:Voltage SIR,EI+
375.8364
3.729e+004

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

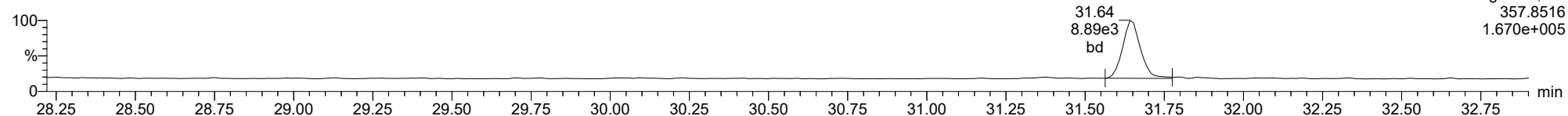
12378-PeCDD

23020105



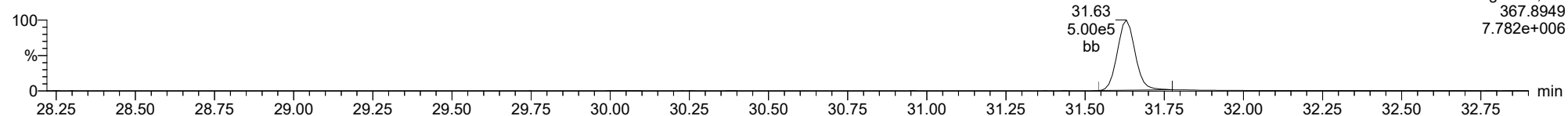
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23020105



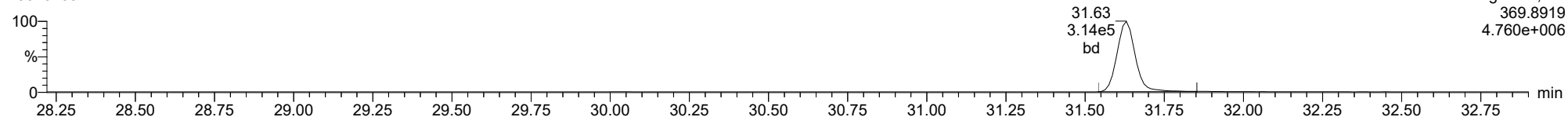
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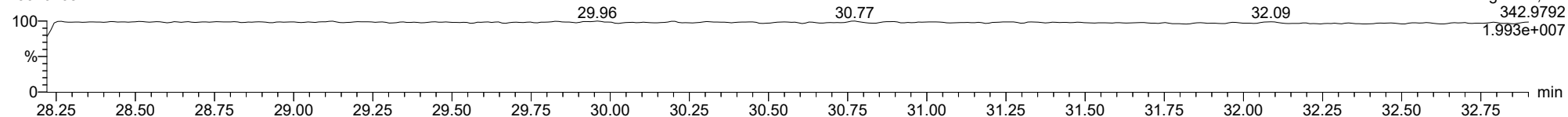
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FUNCTION2 PFK

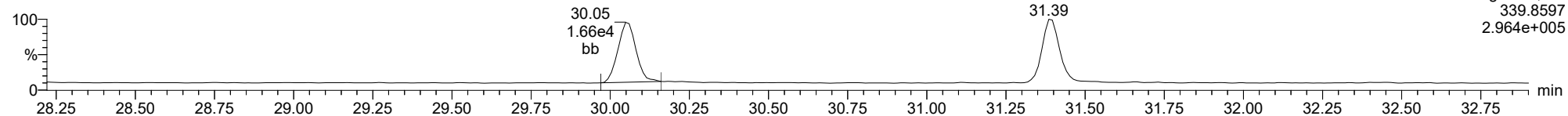
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

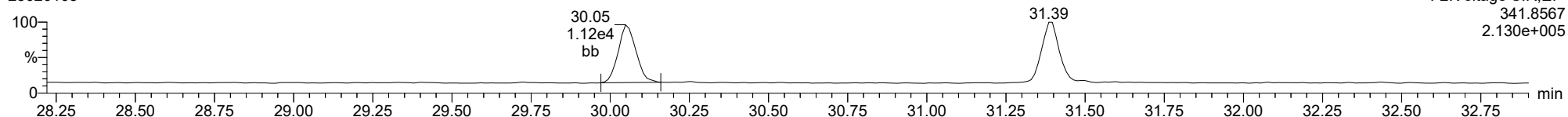
12378-PeCDF

23020105



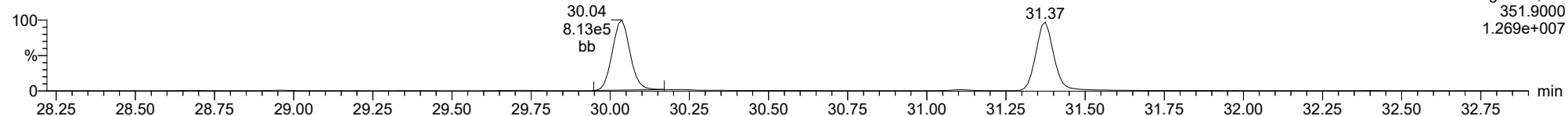
12378-PeCDF

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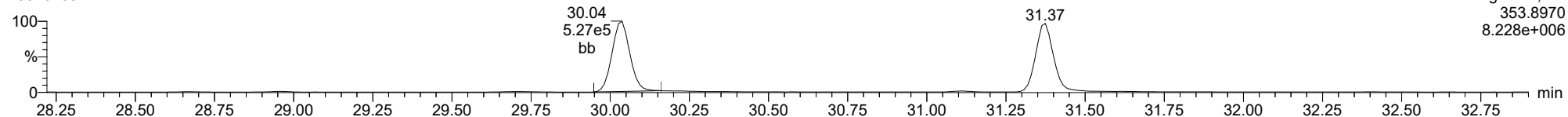
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23020105



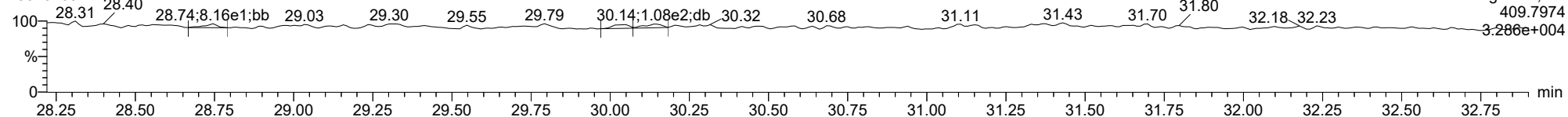
13C-12378-PeCDF

23020105



FUNCTION2 HPCDPE

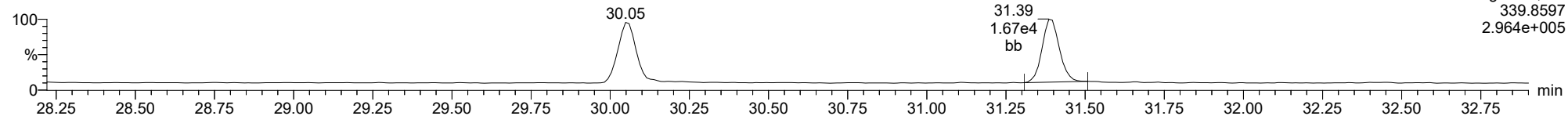
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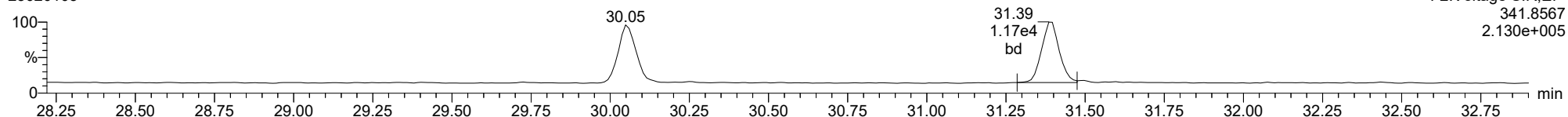
23478-PeCDF

23020105



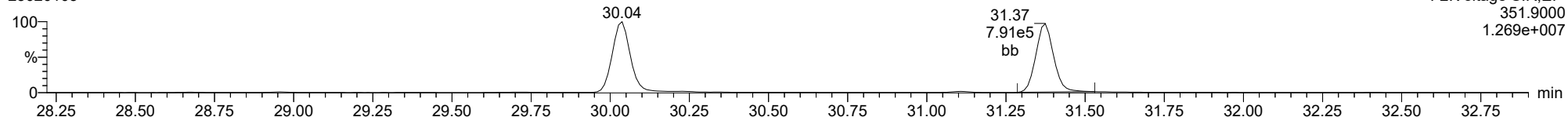
23478-PeCDF

23020105



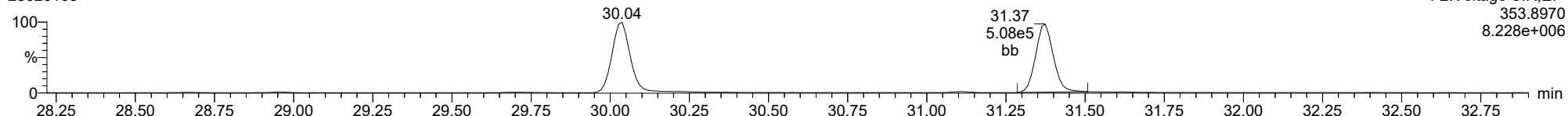
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23020105



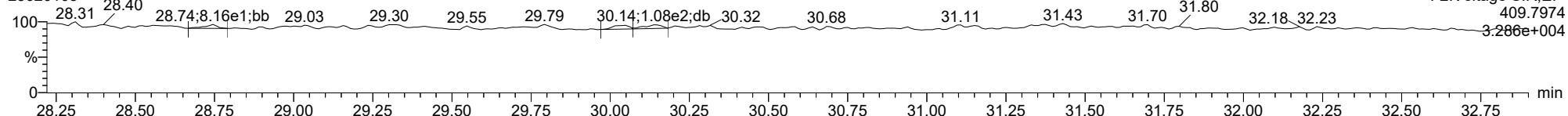
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23020105



FUNCTION2 HPCDPE

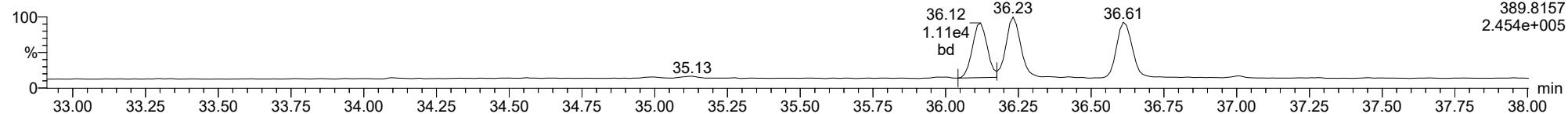
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

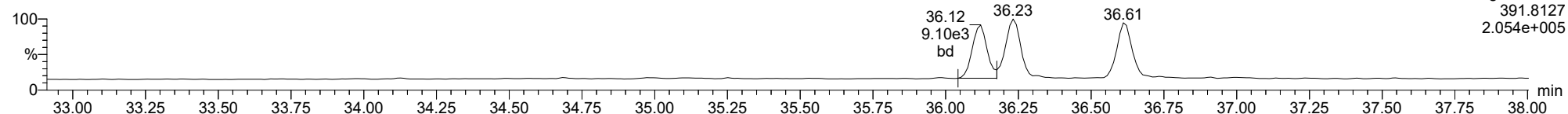
23020105



F3:Voltage SIR,El+
389.8157
2.454e+005

123478-HxCDD

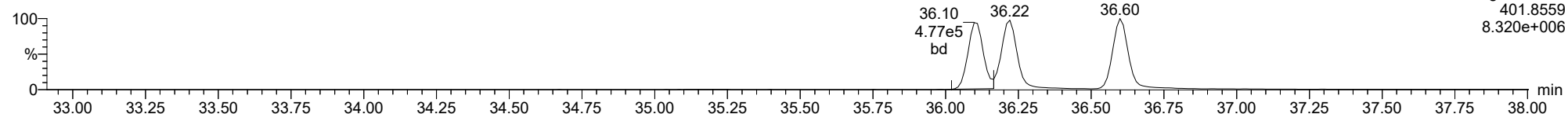
23020105



F3:Voltage SIR,El+
391.8127
2.054e+005

13C-123478-HxCDD

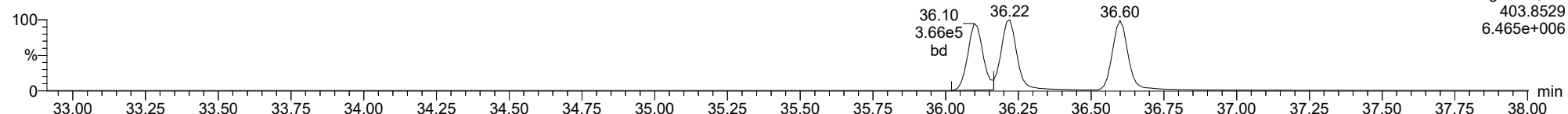
23020105



F3:Voltage SIR,El+
401.8559
8.320e+006

13C-123478-HxCDD

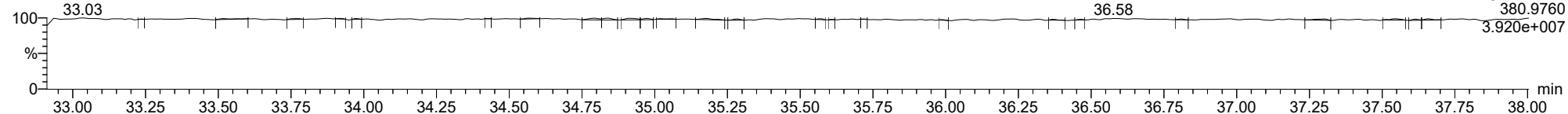
23020105



F3:Voltage SIR,El+
403.8529
6.465e+006

FUNCTION3 PFK

23020105

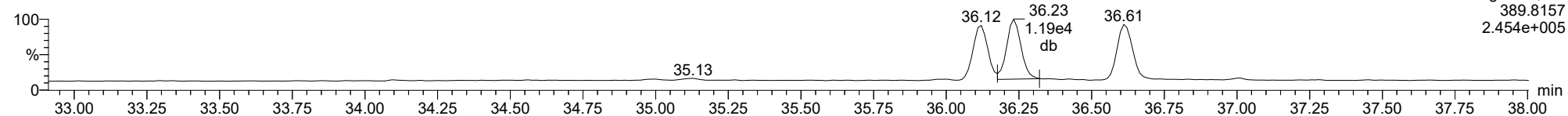


F3:Voltage SIR,El+
380.9760
3.920e+007

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

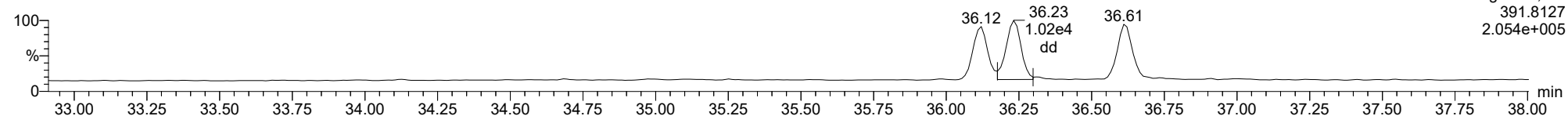
123678-HxCDD

23020105



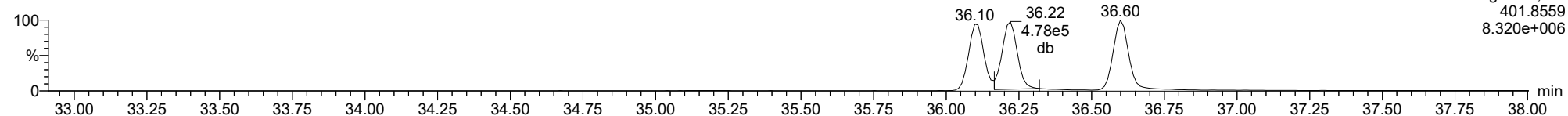
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23020105



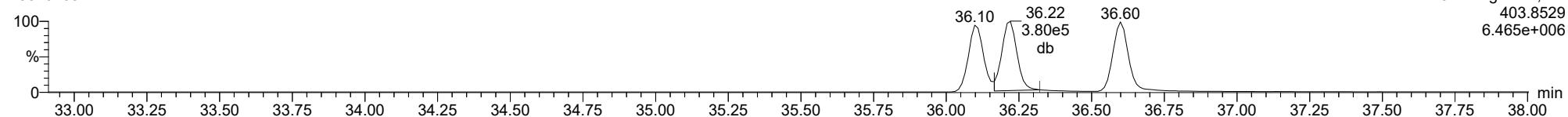
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23020105



13C-123678-HxCDD

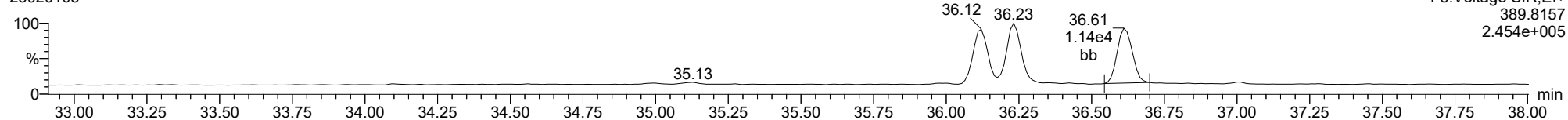
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

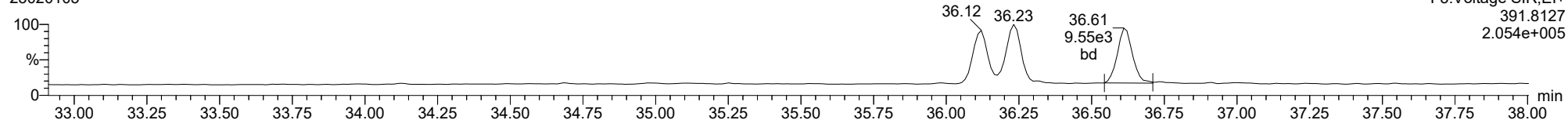
123789-HxCDD

23020105



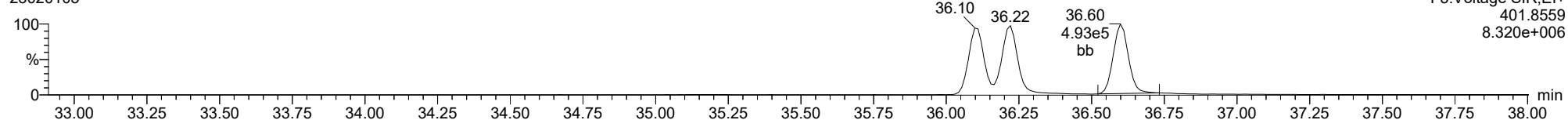
123789-HxCDD

23020105



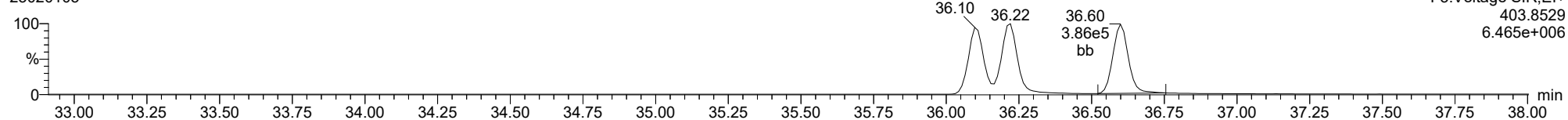
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23020105



13C-123789-HxCDD

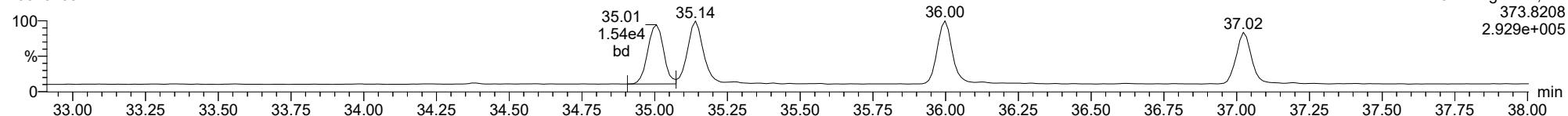
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

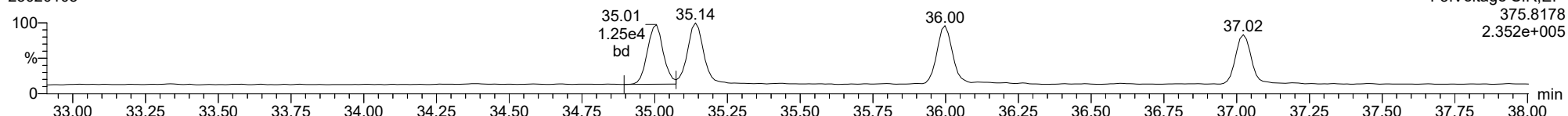
123478-HxCDF

23020105



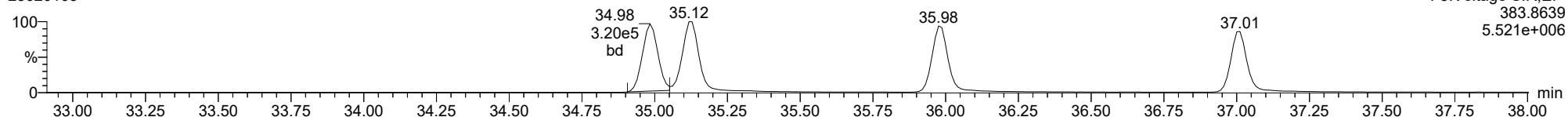
123478-HxCDF

23020105



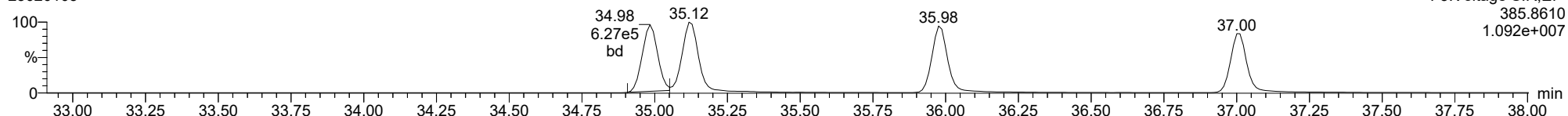
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23020105



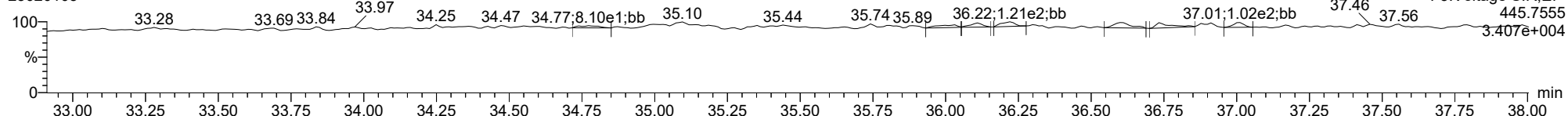
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23020105



FUNCTION3 OCDPE

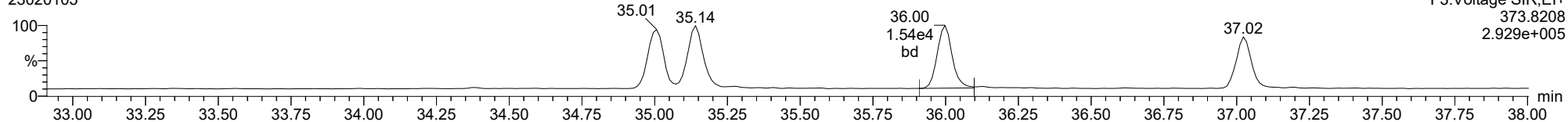
23020105



ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

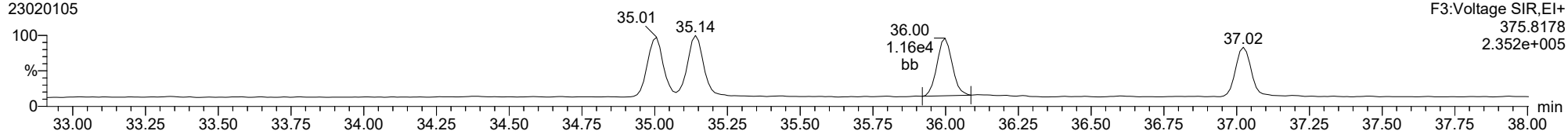
234678-HxCDF

23020105



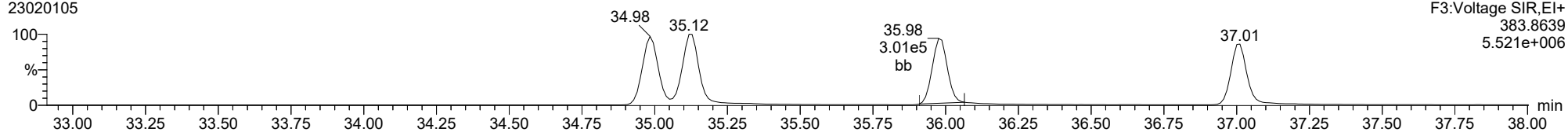
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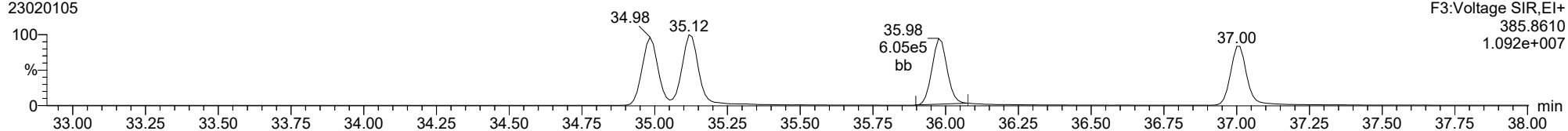
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23020105



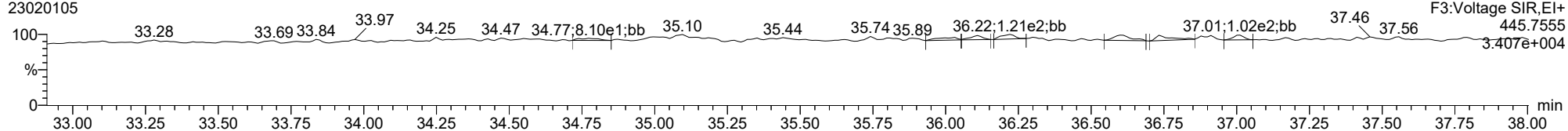
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23020105



FUNCTION3 OCDPE

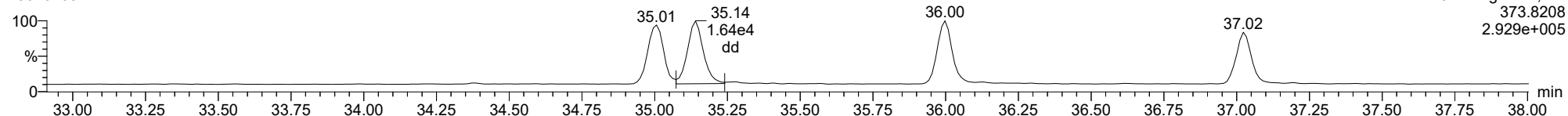
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

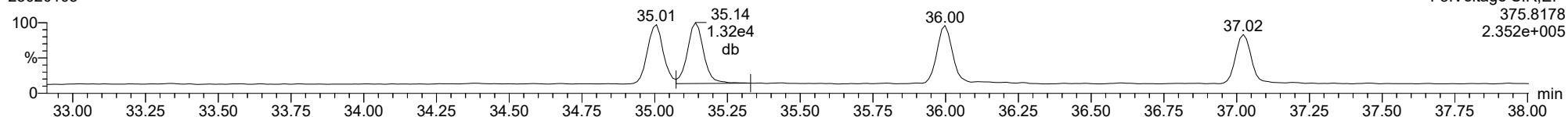
123678-HxCDF

23020105



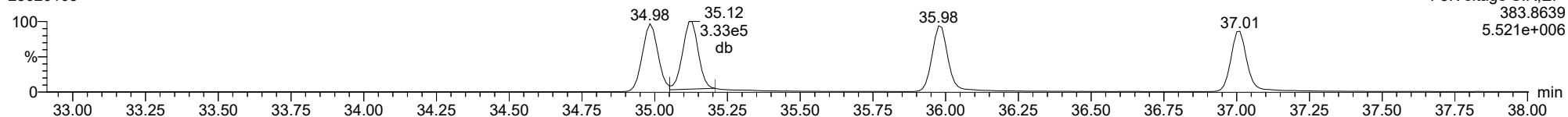
123678-HxCDF

23020105



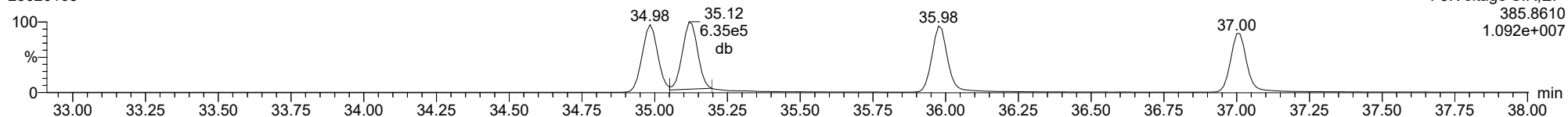
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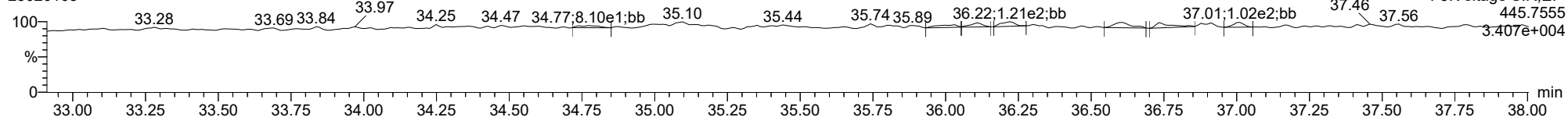
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23020105



FUNCTION3 OCDPE

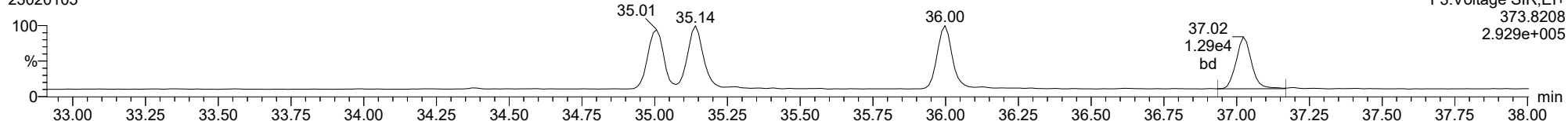
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

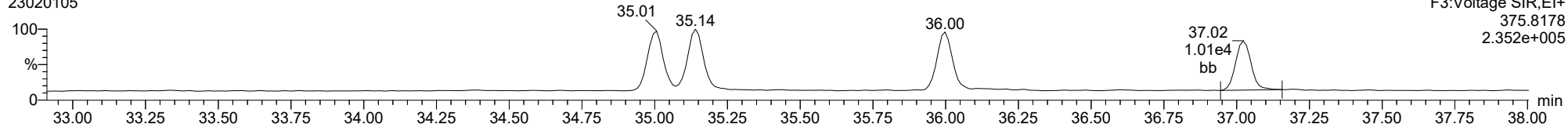
123789-HxCDF

23020105



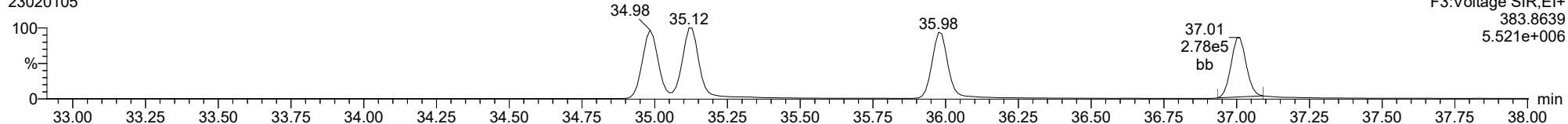
123789-HxCDF

23020105



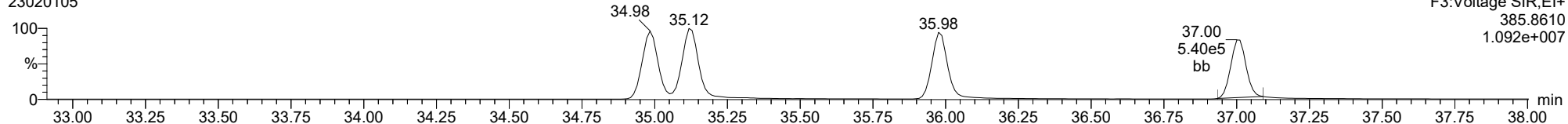
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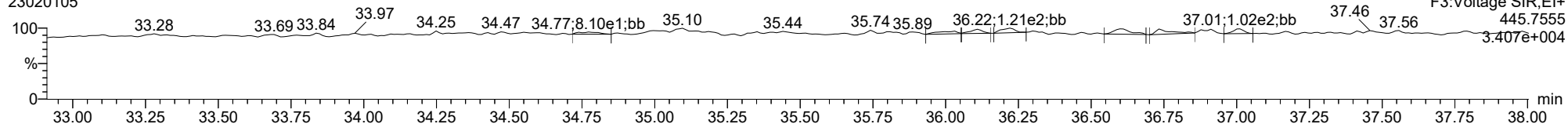
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23020105



FUNCTION3 OCDPE

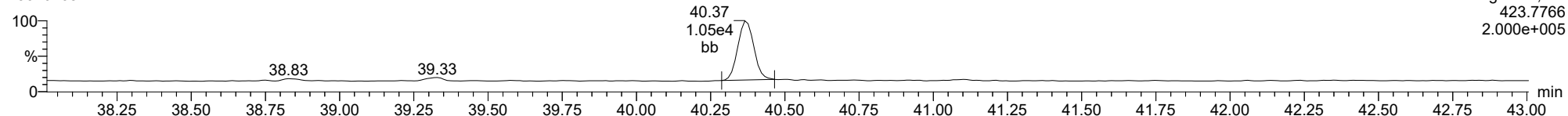
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

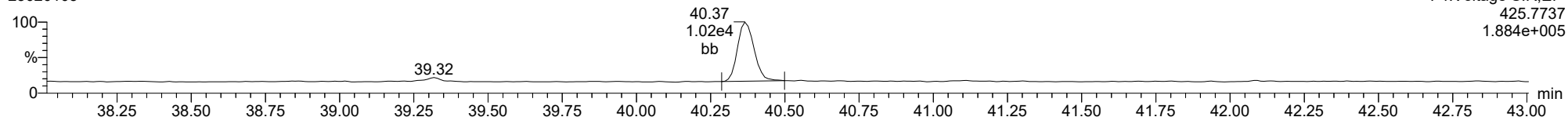
1234678-HpCDD

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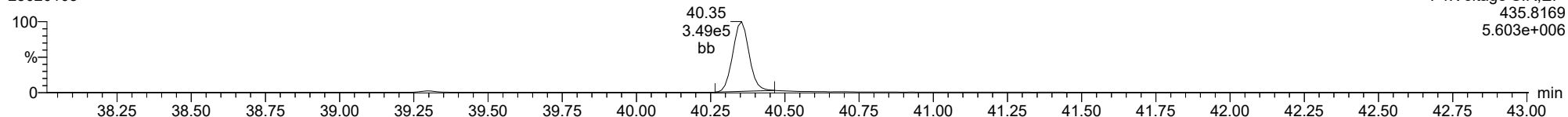
1234678-HpCDD

23020105



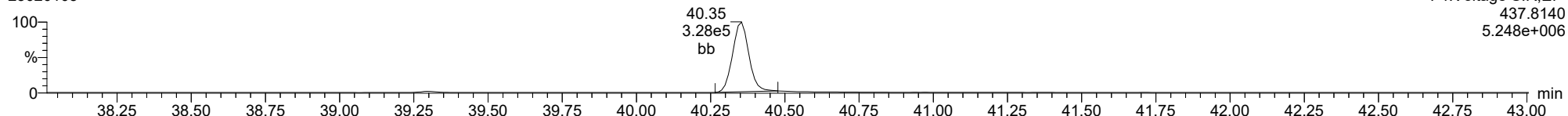
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23020105



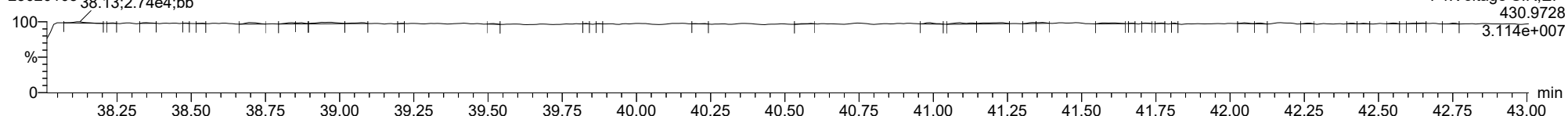
13C-1234678-HpCDD

23020105



FUNCTION4 PFK

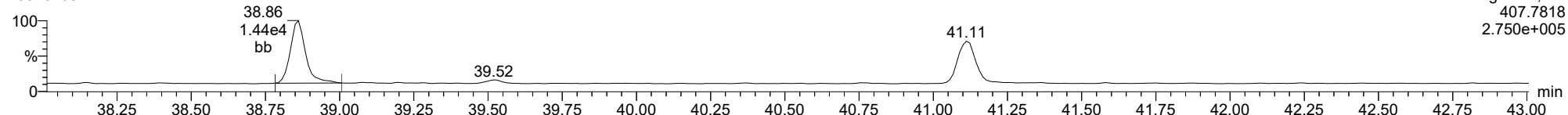
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

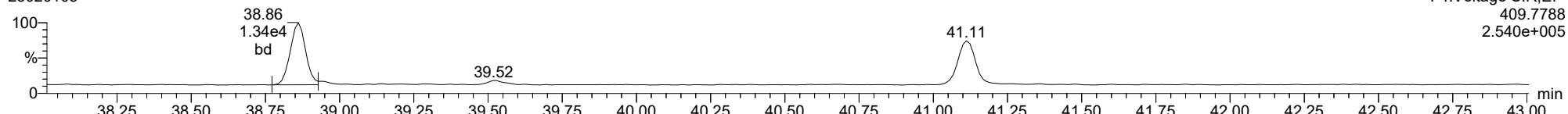
1234678-HpCDF

23020105



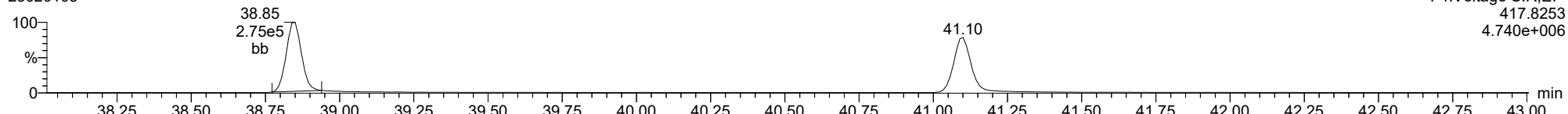
1234678-HpCDF

23020105



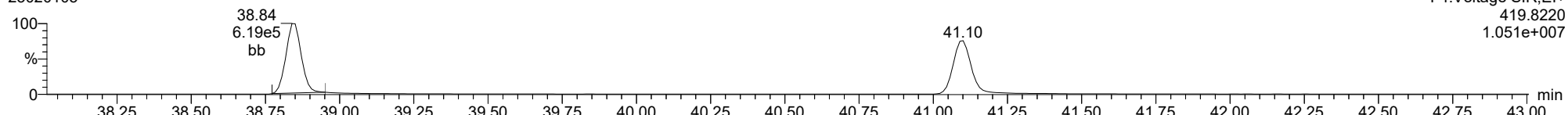
13C-1234678-HpCDF

23020105



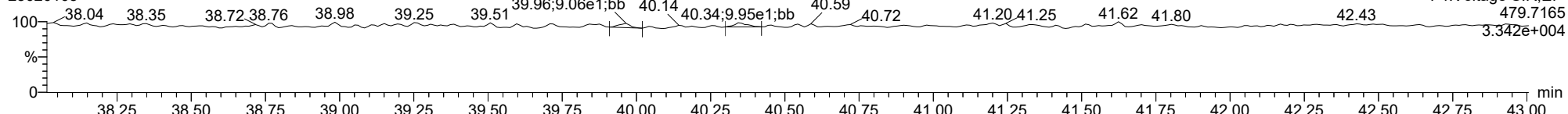
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23020105



FUNCTION4 NCDPE

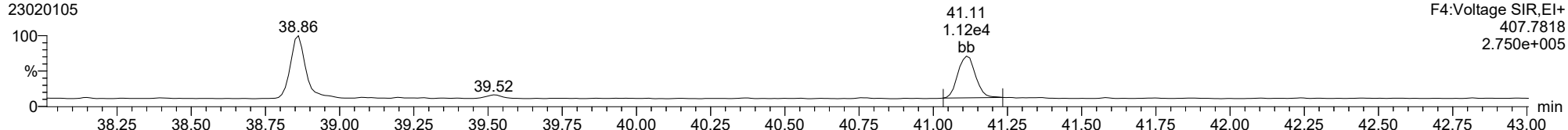
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

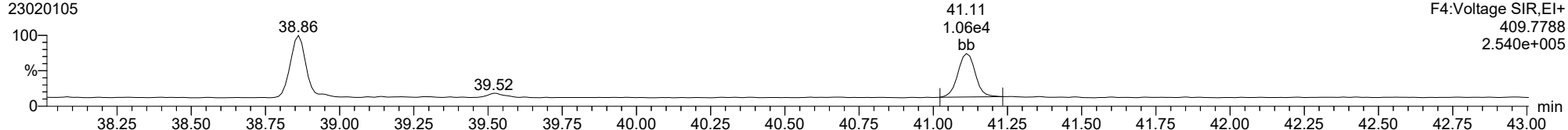
23020105



F4:Voltage SIR,EI+
407.7818
2.750e+005

1234789-HpCDF

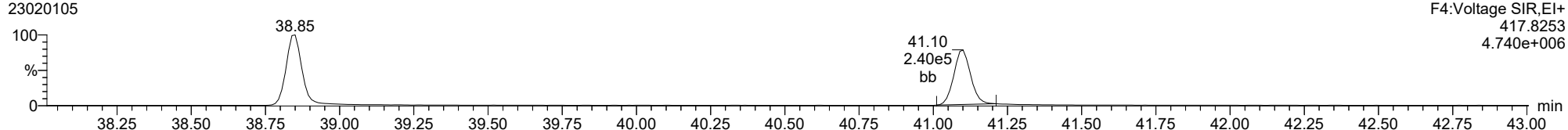
23020105



F4:Voltage SIR,EI+
409.7788
2.540e+005

13C-1234789-HpCDF

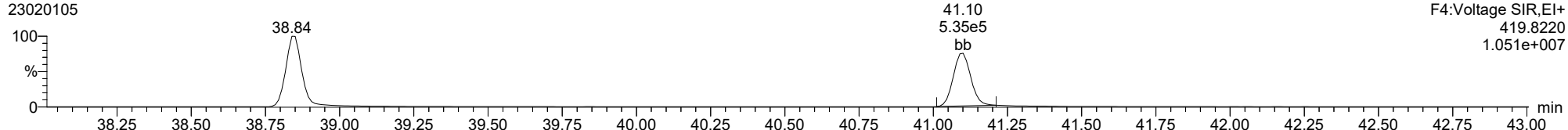
23020105



F4:Voltage SIR,EI+
417.8253
4.740e+006

13C-1234789-HpCDF

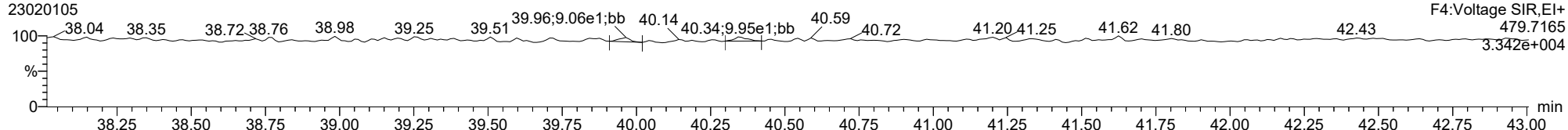
23020105



F4:Voltage SIR,EI+
419.8220
1.051e+007

FUNCTION4 NCDPE

23020105

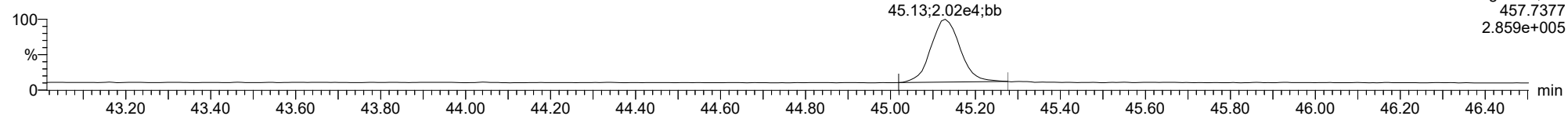


F4:Voltage SIR,EI+
479.7165
3.342e+004

ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

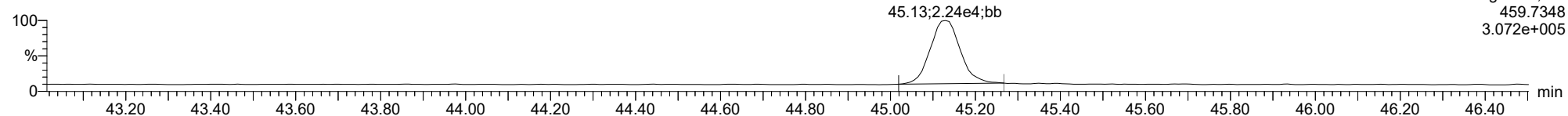
OCDD

23020105



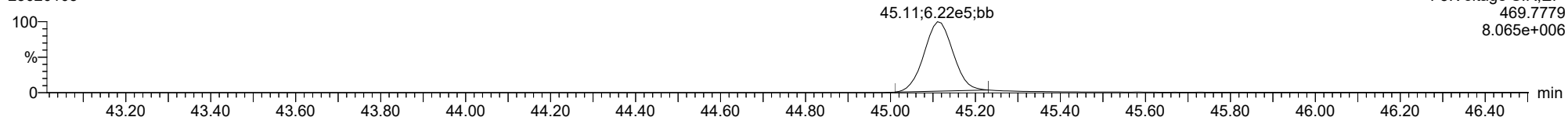
OCDD

23020105



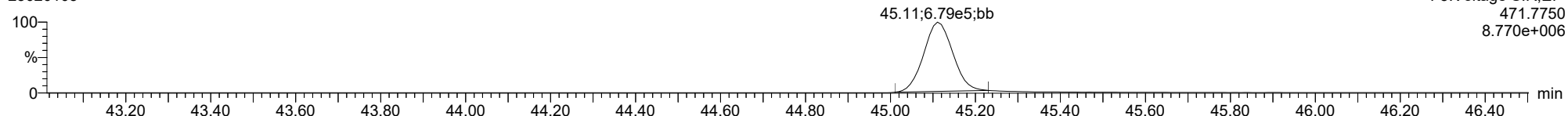
13C-OCDD

23020105



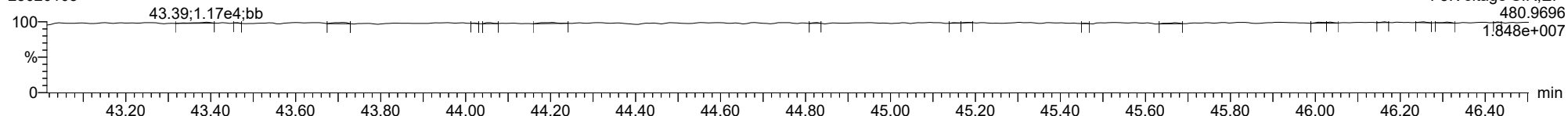
13C-OCDD

23020105



FUNCTION5 PFK

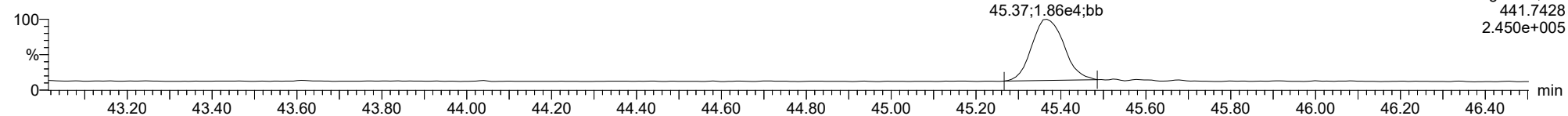
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

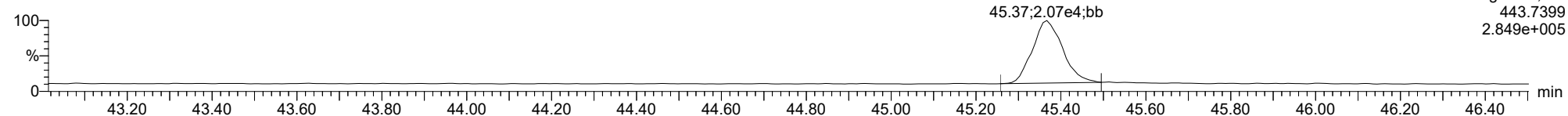
OCDF

23020105



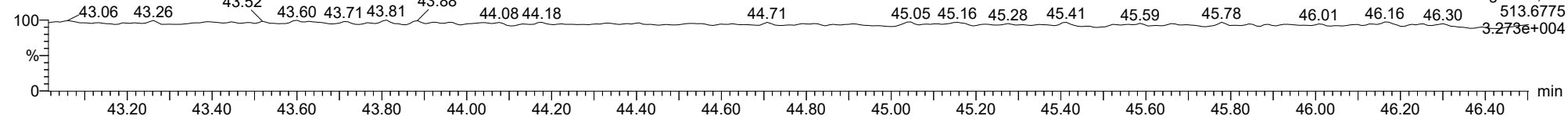
OCDF

23020105



FUNCTION5 DCDPE

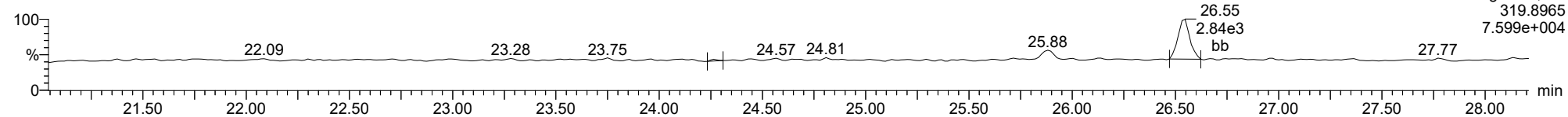
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

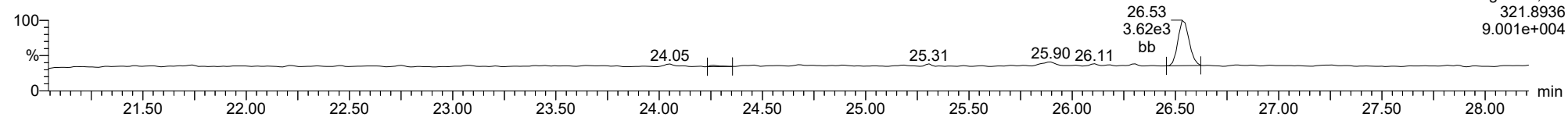
Total-tetradioxins

23020105



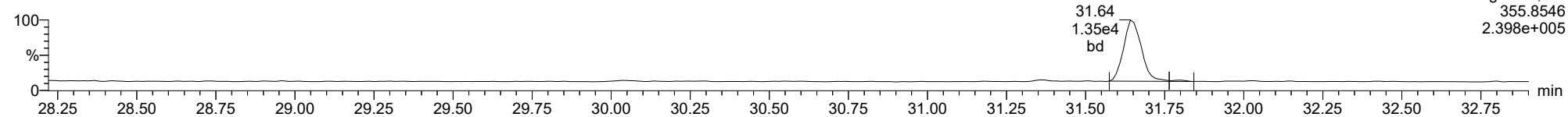
Total-tetradioxins

23020105



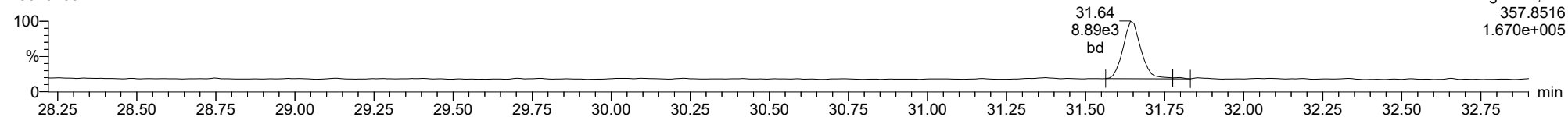
Total-pentadioxins

23020105



Total-pentadioxins

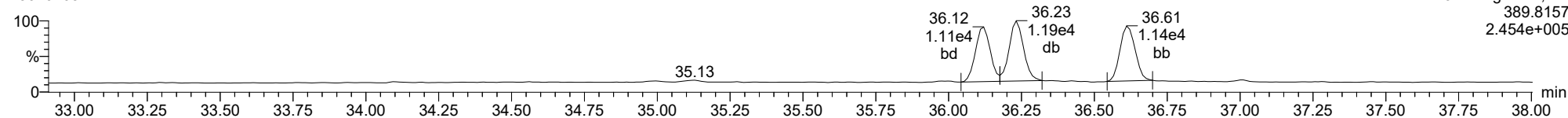
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

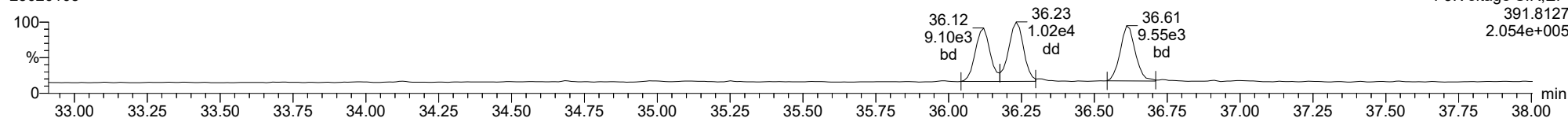
Total-hexadioxins

23020105



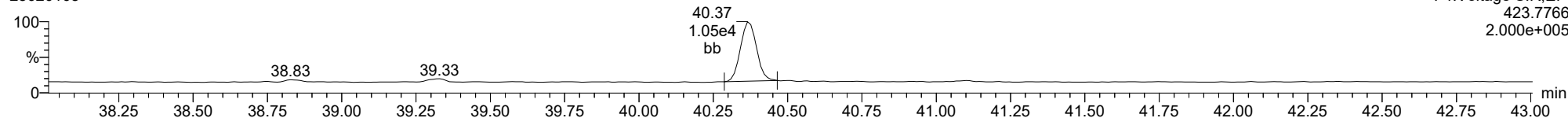
Total-hexadioxins

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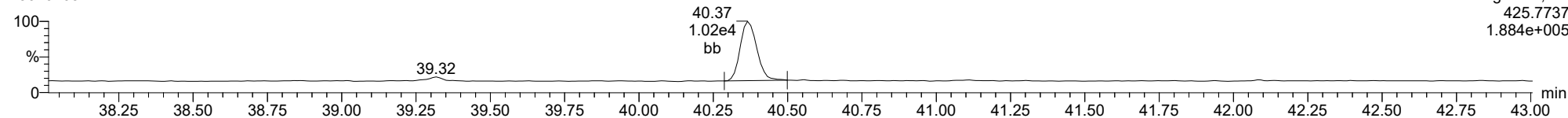
Total-heptadioxins

23020105



Total-heptadioxins

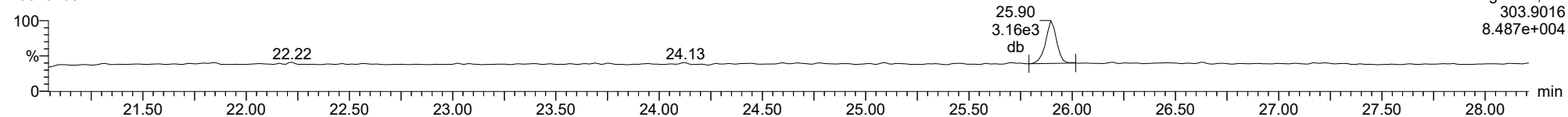
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

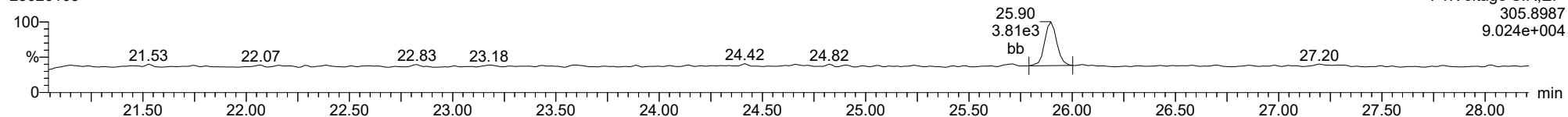
Total-tetrafurans

23020105



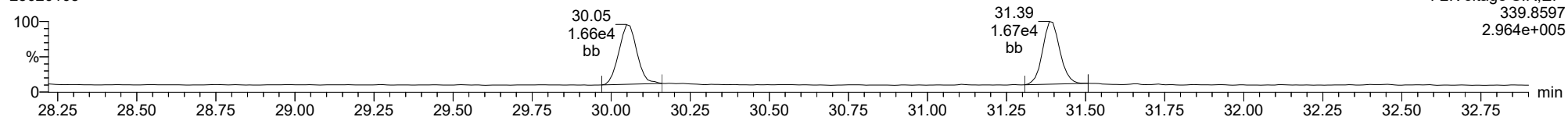
Total-tetrafurans

23020105



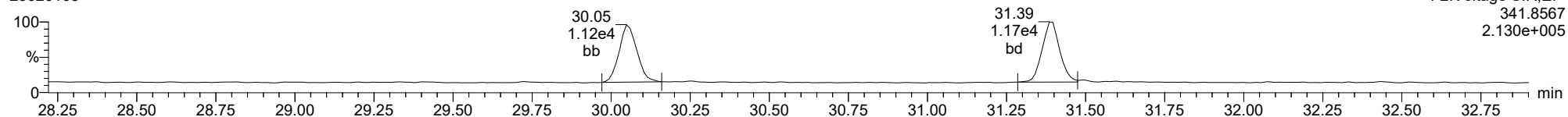
Total-pentafurans

23020105



Total-pentafurans

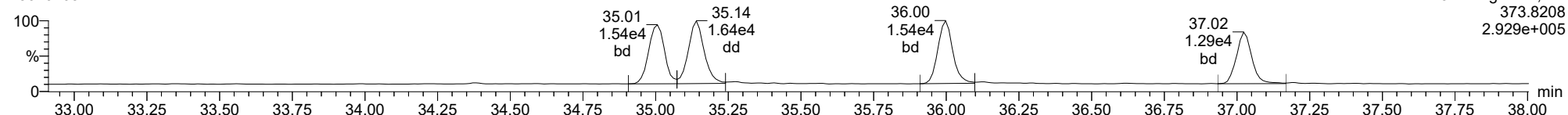
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ID: CS1CR, Name: 23020105, Date: 01-Feb-2023, Time: 15:28:53, Conditions: AUTOSPEC01, User: pk

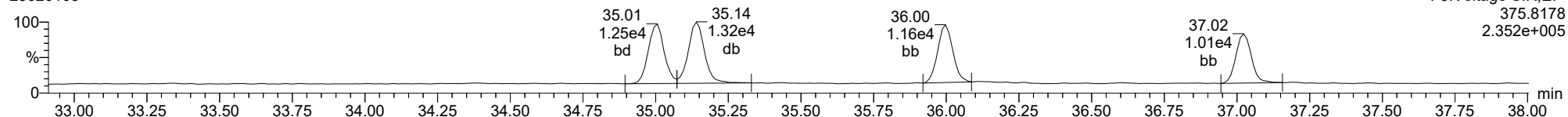
Total-hexafurans

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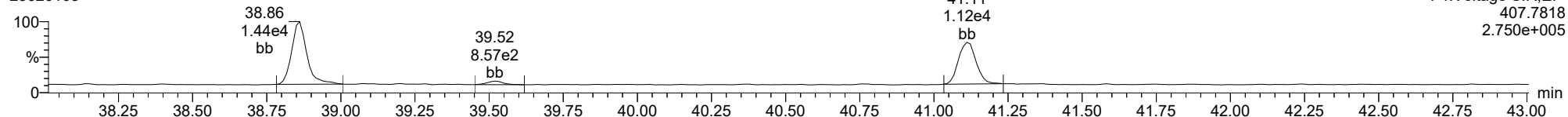
Total-hexafurans

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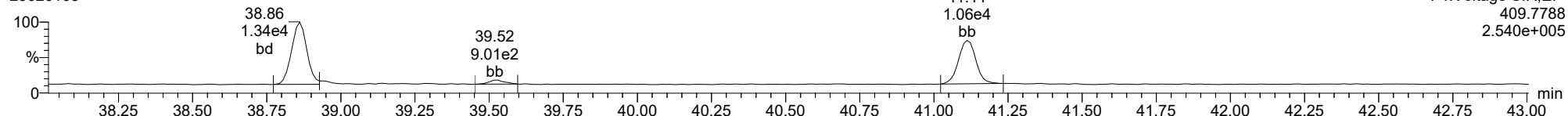
Total-heptafurans

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
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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

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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

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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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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		

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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	46.27	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

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

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

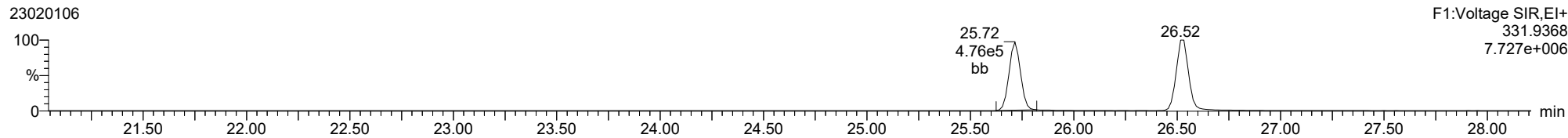
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.32	1.012e2					2.0	NO		bb		0.000

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

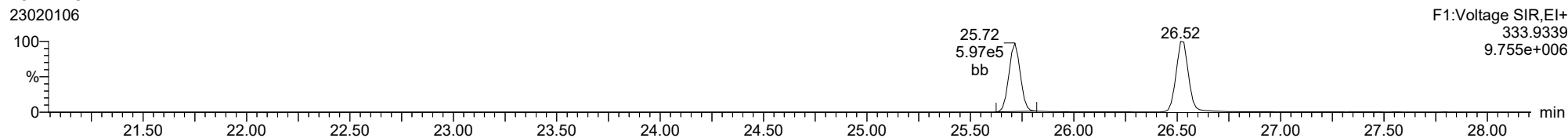
23020106



F1:Voltage SIR,El+
331.9368
7.727e+006

13C-1234-TCDD

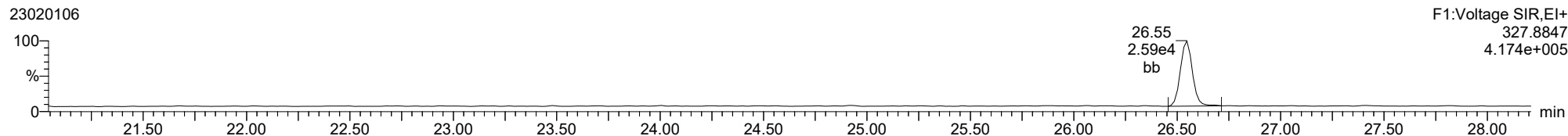
23020106



F1:Voltage SIR,El+
333.9339
9.755e+006

37CL-2378-TCDD

23020106

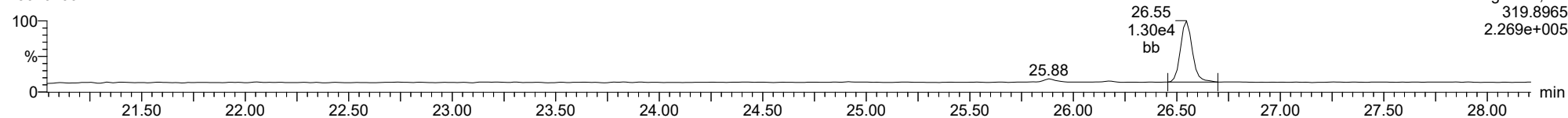


F1:Voltage SIR,El+
327.8847
4.174e+005

ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

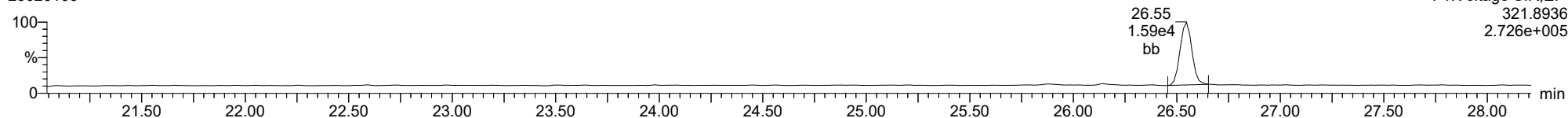
2378-TCDD

23020106



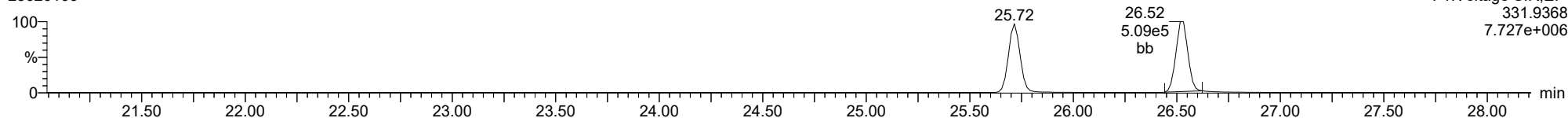
2378-TCDD

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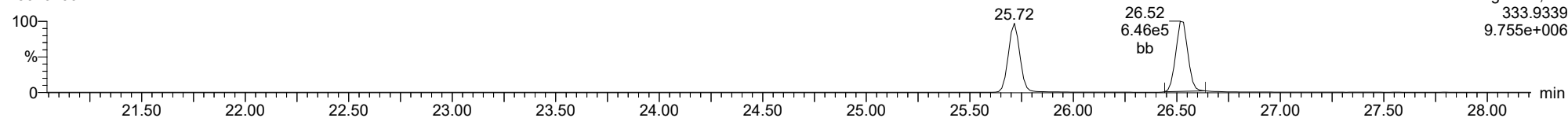
13C-2378-TCDD

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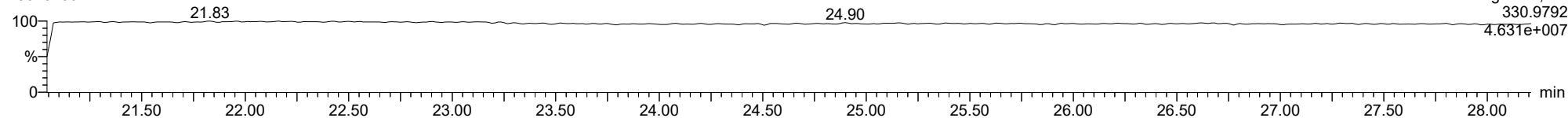
13C-2378-TCDD

23020106



FUNCTION1 PFK

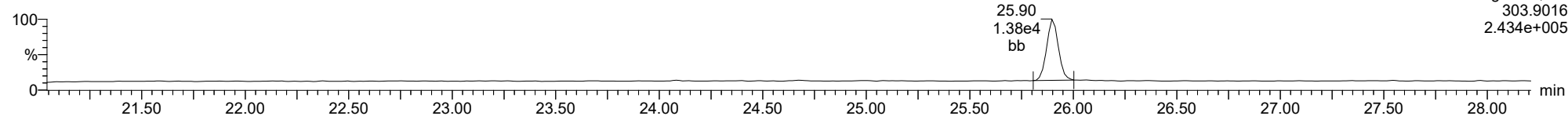
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

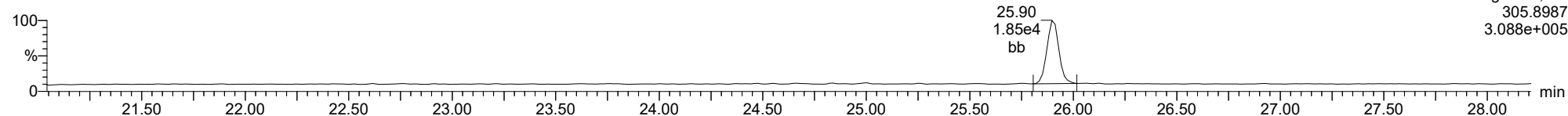
2378-TCDF

23020106



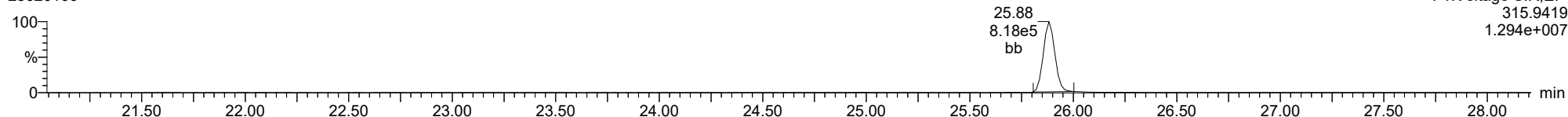
2378-TCDF

23020106



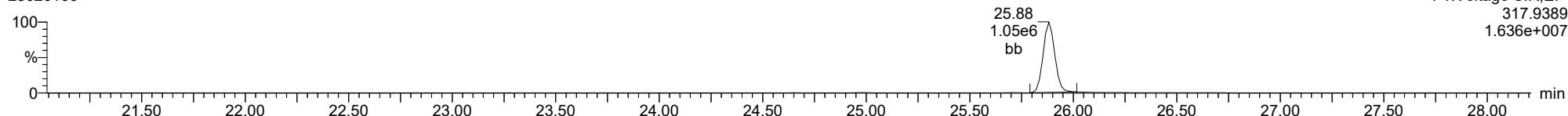
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23020106



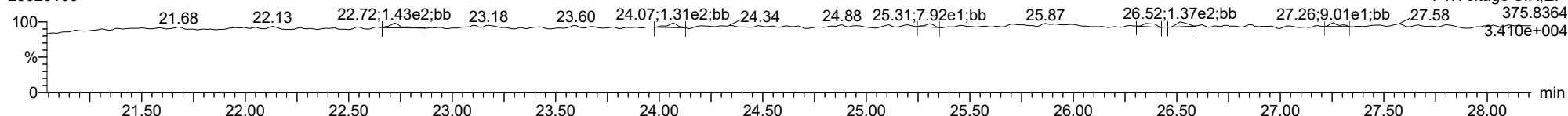
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23020106



FUNCTION1 HXCDPE

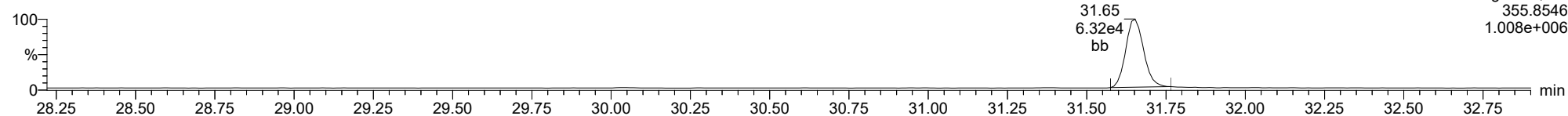
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

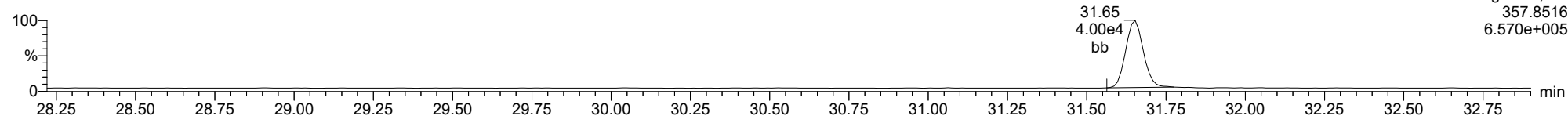
12378-PeCDD

23020106



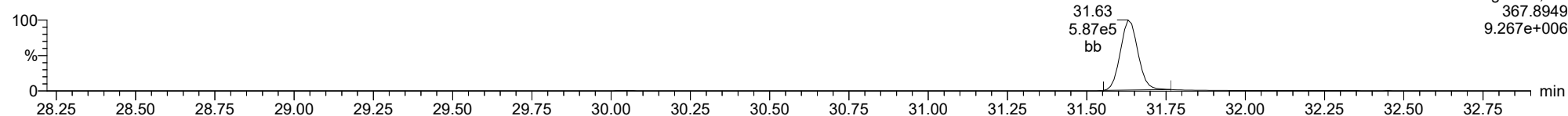
12378-PeCDD

23020106



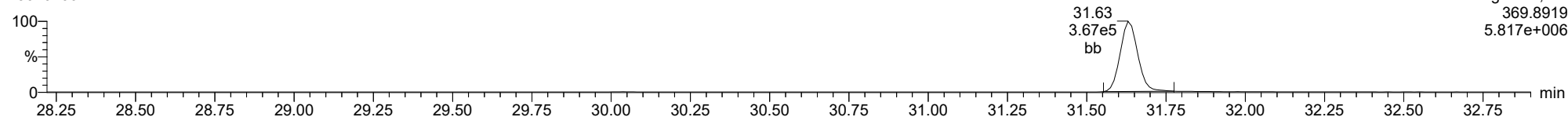
13C-12378-PeCDD

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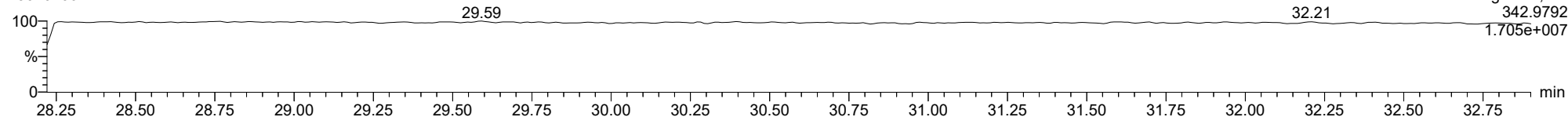
13C-12378-PeCDD

23020106



FUNCTION2 PFK

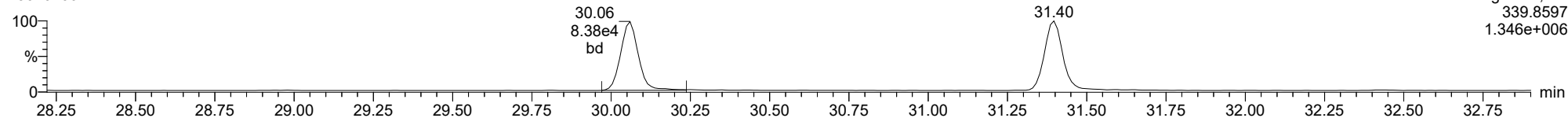
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

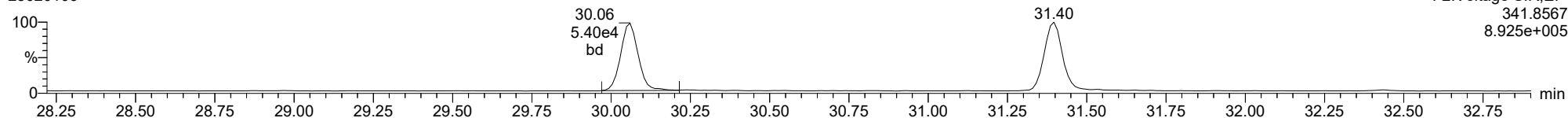
12378-PeCDF

23020106



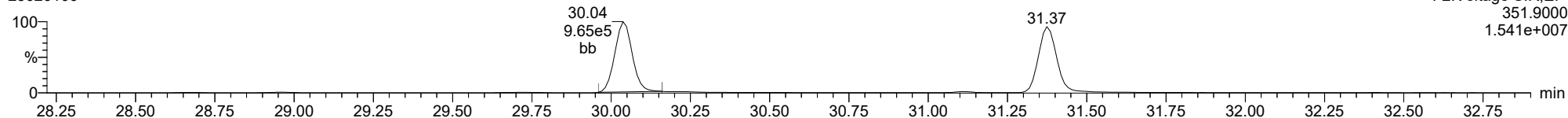
12378-PeCDF

23020106



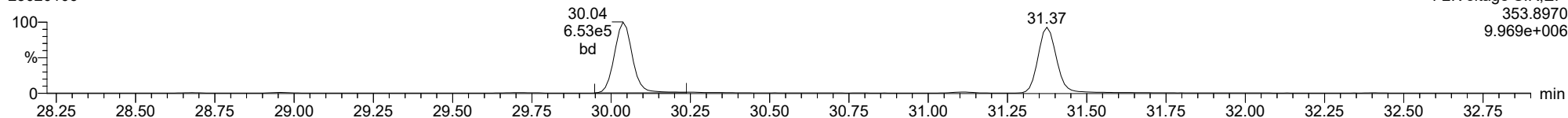
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23020106



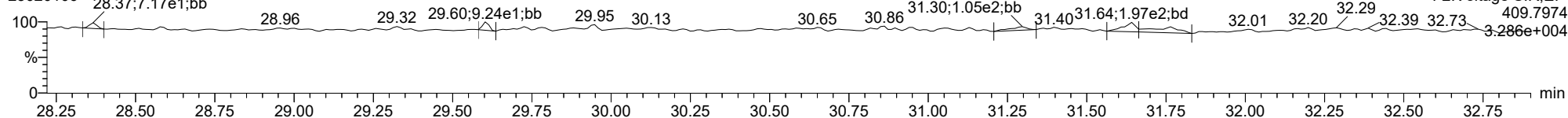
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23020106



FUNCTION2 HPCDPE

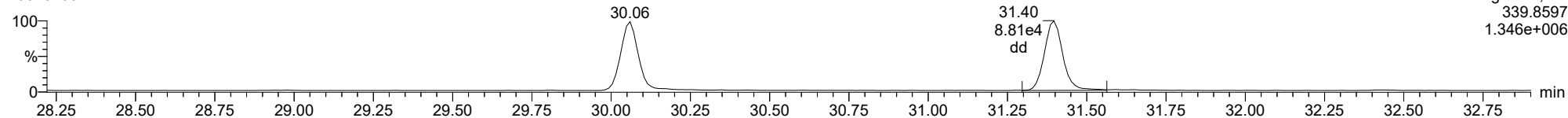
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

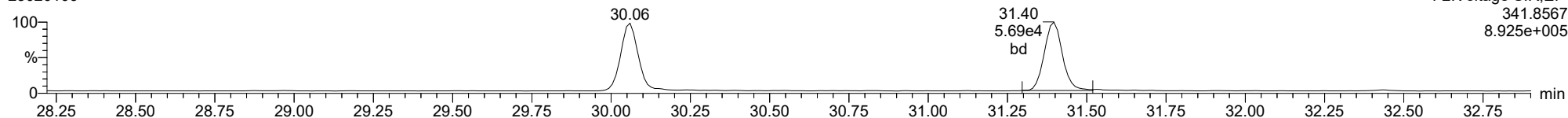
23478-PeCDF

23020106



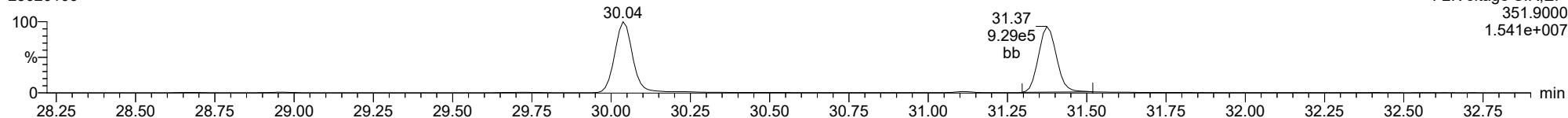
23478-PeCDF

23020106



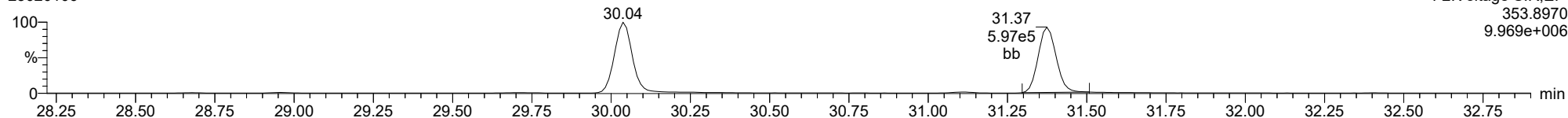
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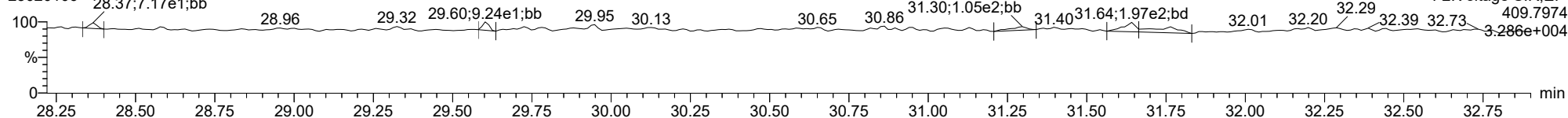
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23020106



FUNCTION2 HPCDPE

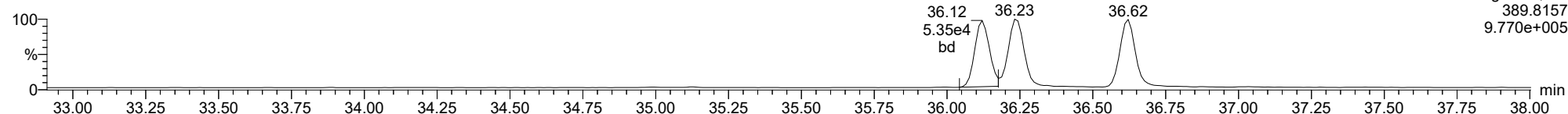
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

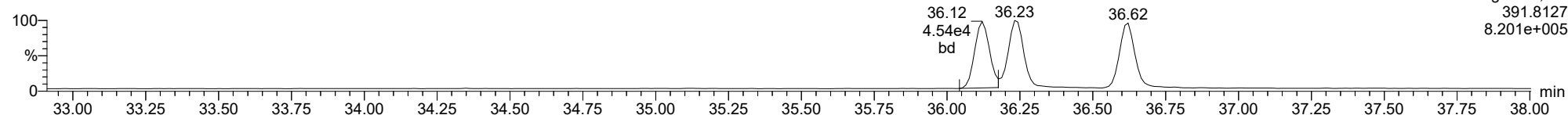
123478-HxCDD

23020106



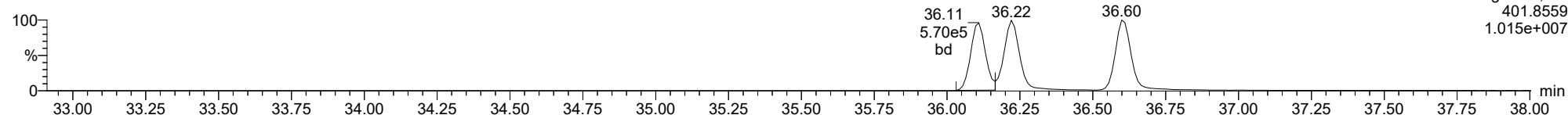
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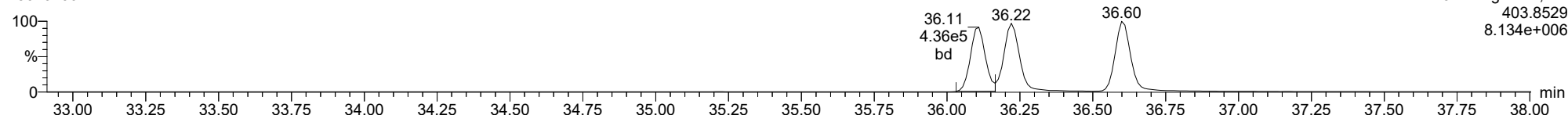
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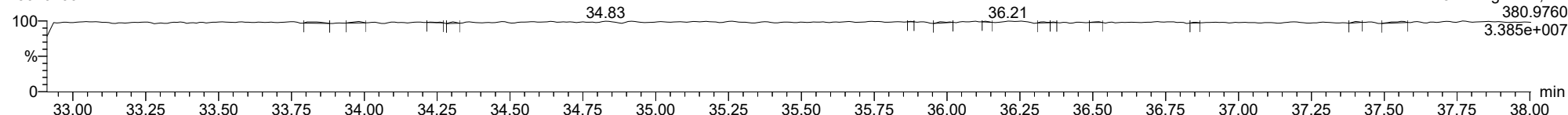
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FUNCTION3 PFK

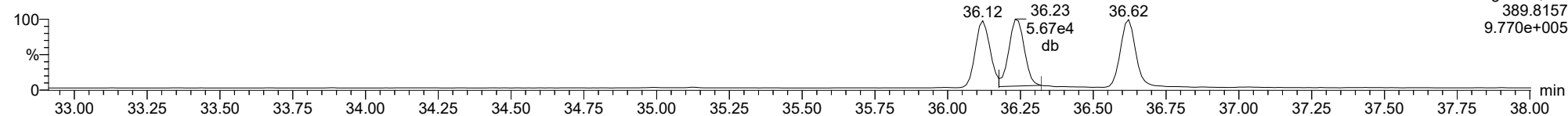
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

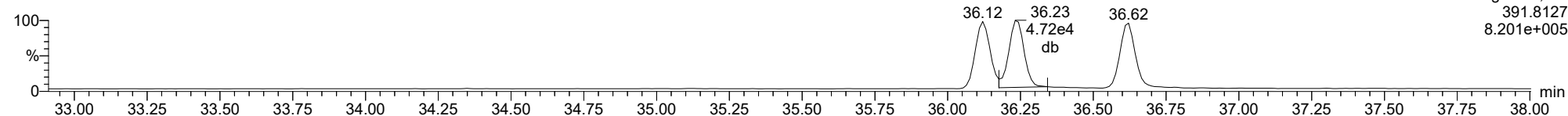
123678-HxCDD

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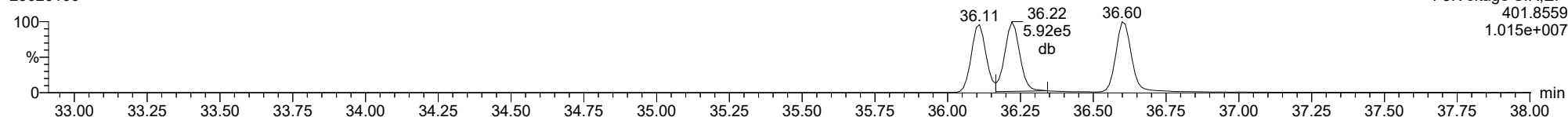
123678-HxCDD

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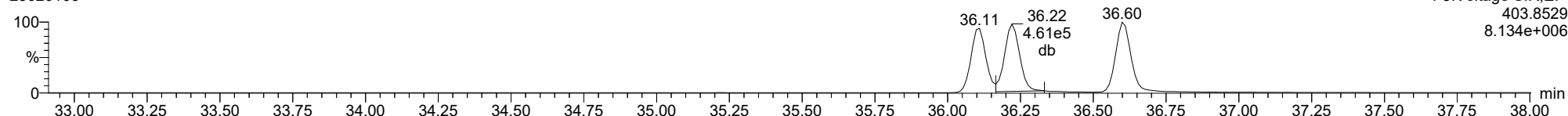
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13C-123678-HxCDD

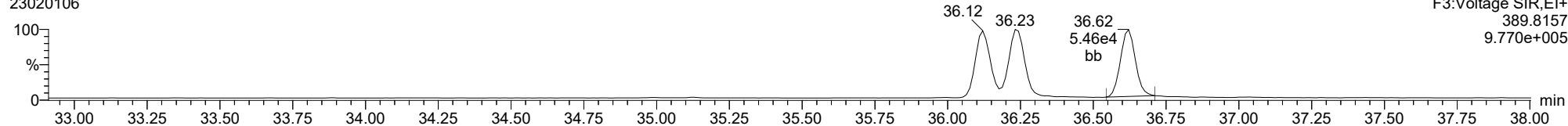
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

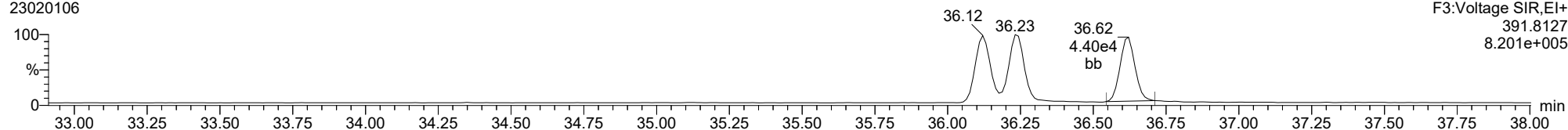
123789-HxCDD

23020106



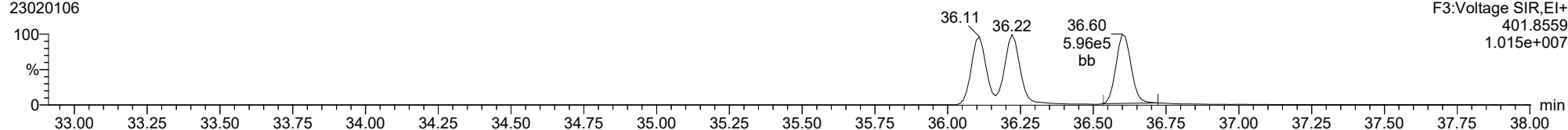
123789-HxCDD

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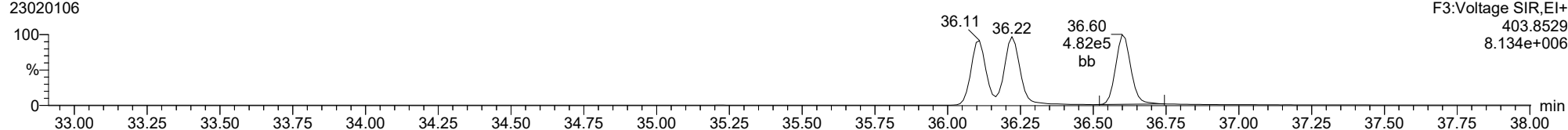
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13C-123789-HxCDD

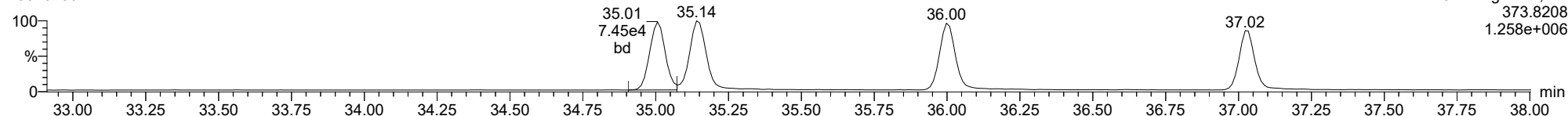
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

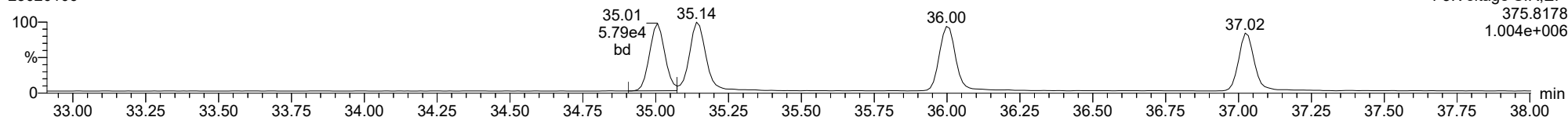
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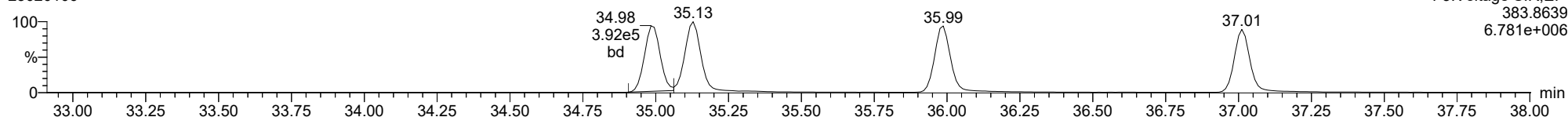
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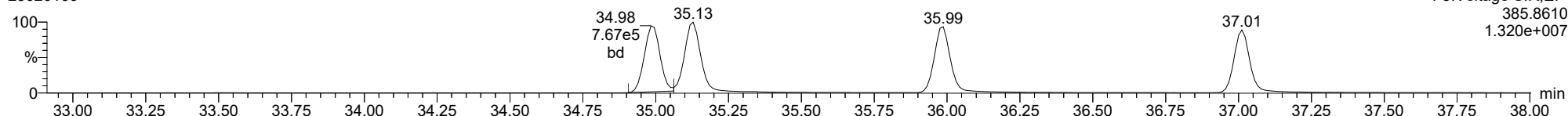
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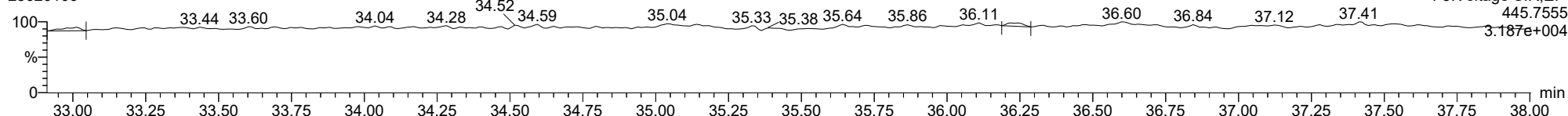
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FUNCTION3 OCDPE

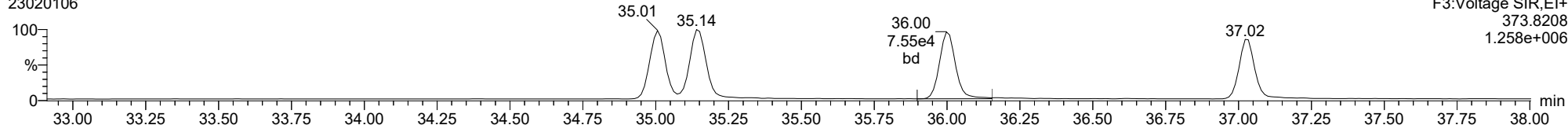
23020106



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

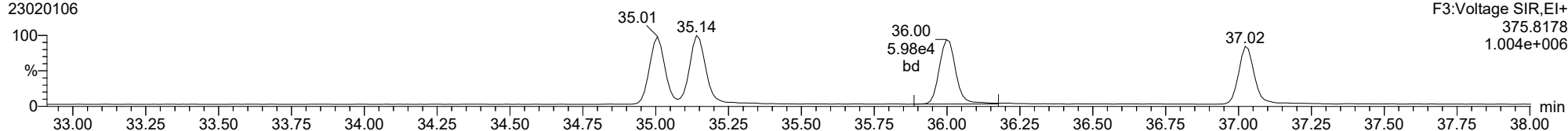
234678-HxCDF

23020106



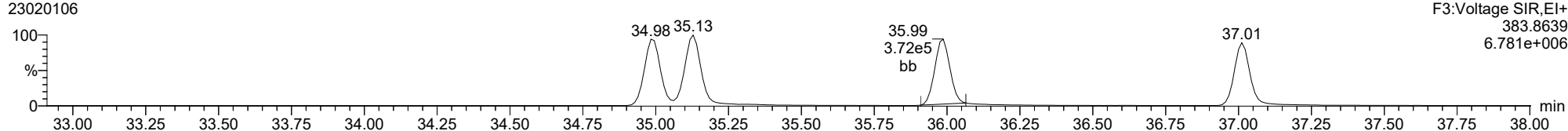
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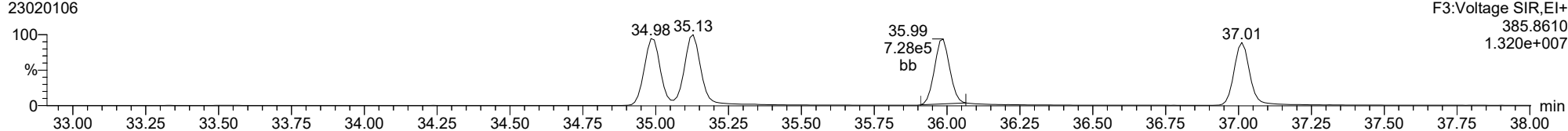
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23020106



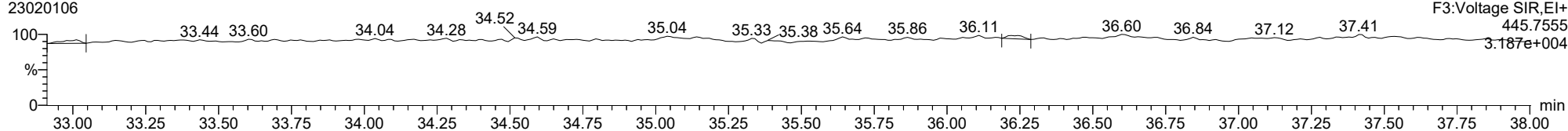
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23020106



FUNCTION3 OCDPE

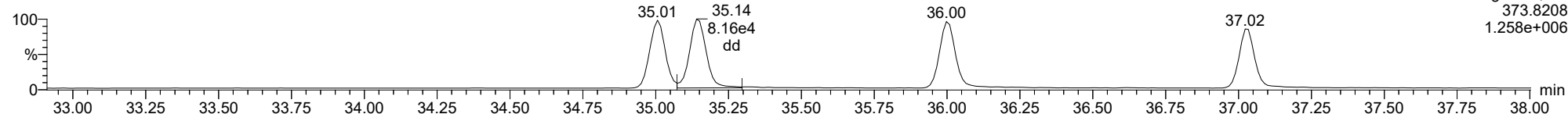
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

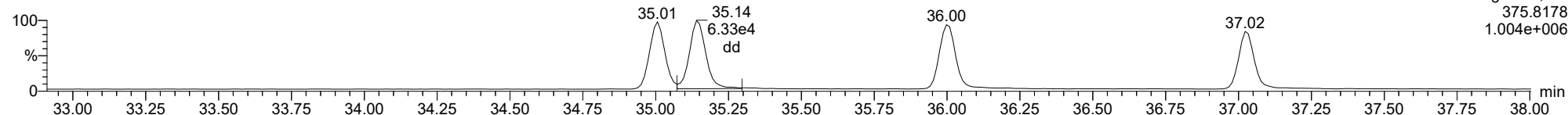
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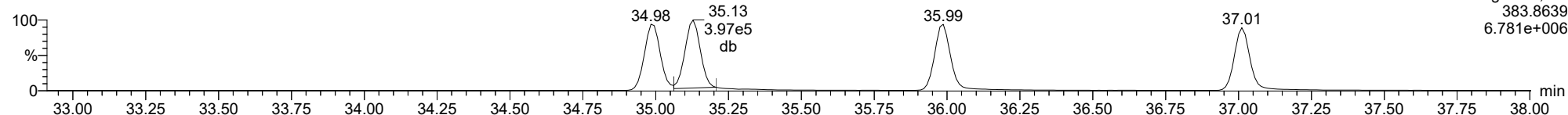
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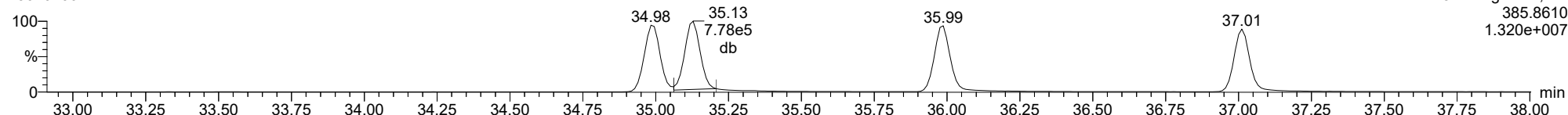
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23020106



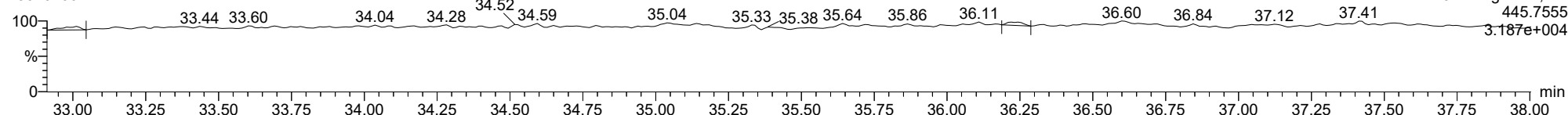
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23020106



FUNCTION3 OCDPE

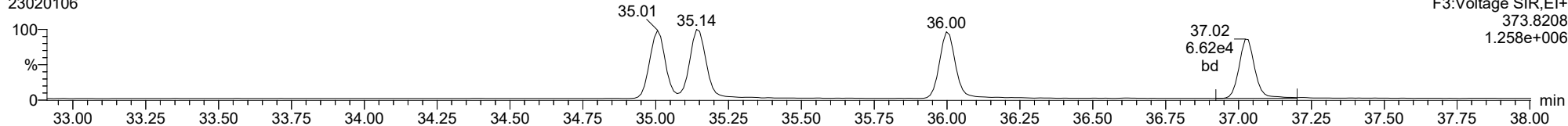
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

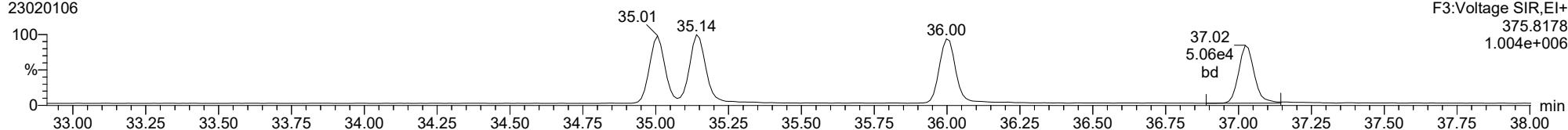
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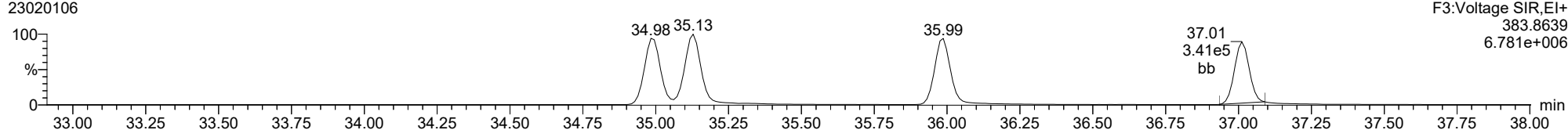
123789-HxCDF

23020106



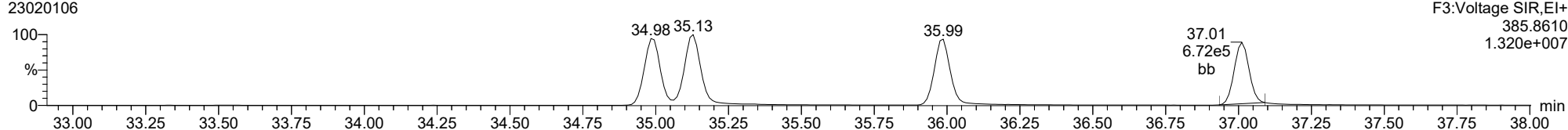
13C-123789-HxCDF

23020106



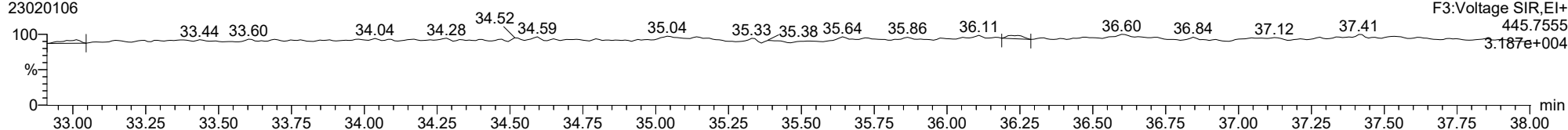
13C-123789-HxCDF

23020106



FUNCTION3 OCDPE

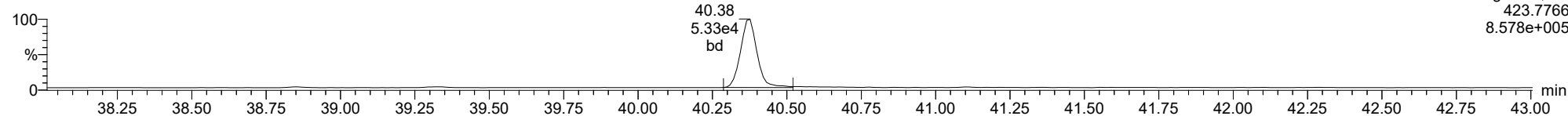
23020106



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

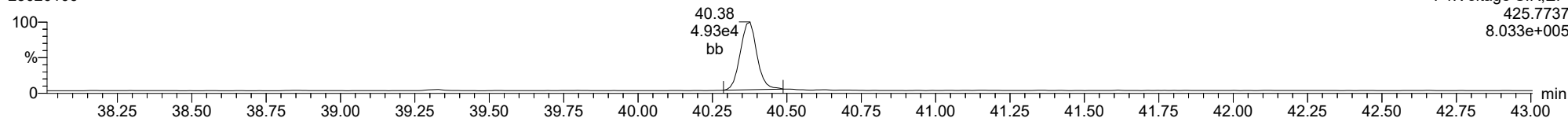
1234678-HpCDD

23020106



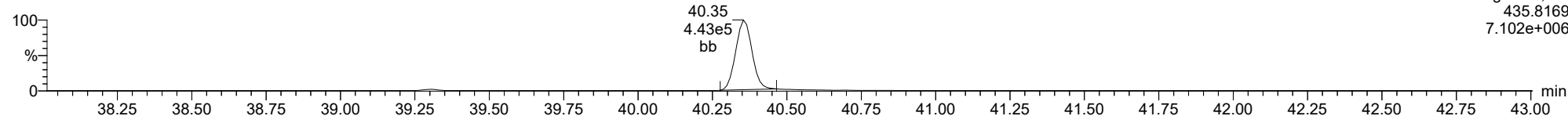
1234678-HpCDD

23020106



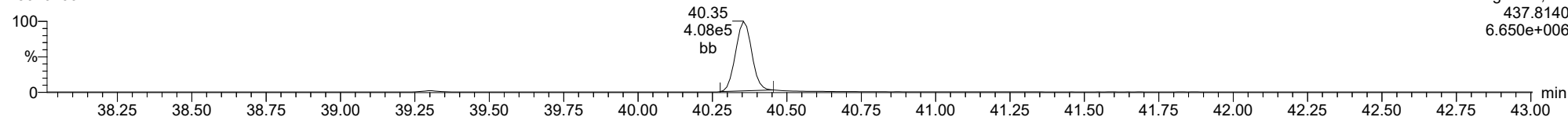
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23020106



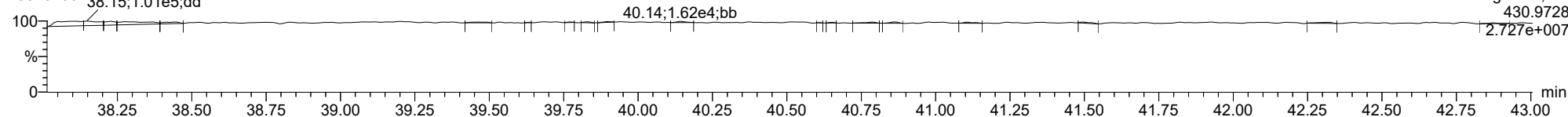
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23020106



FUNCTION4 PFK

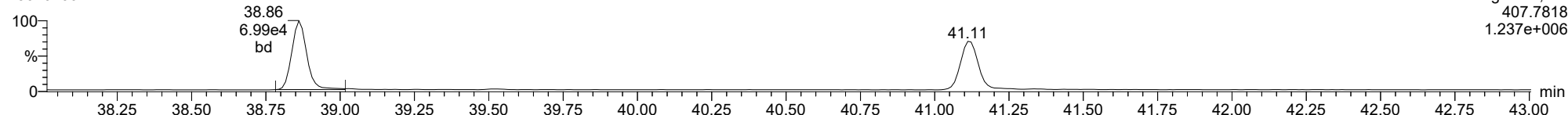
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

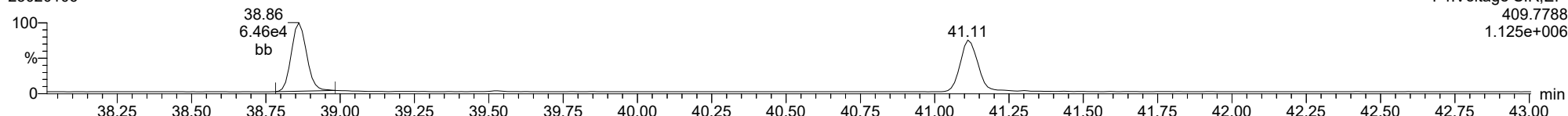
1234678-HpCDF

23020106



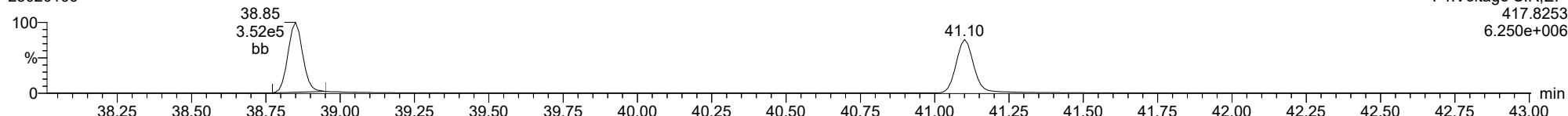
1234678-HpCDF

23020106



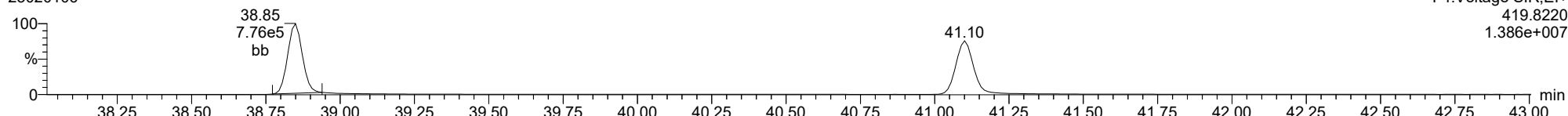
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23020106



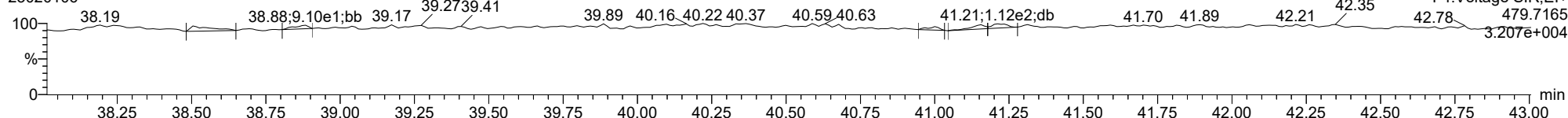
13C-1234678-HpCDF

23020106



FUNCTION4 NCDPE

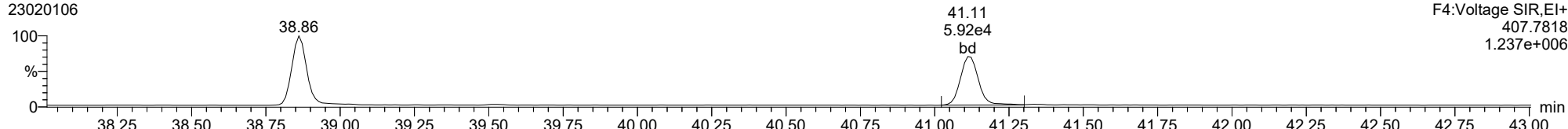
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

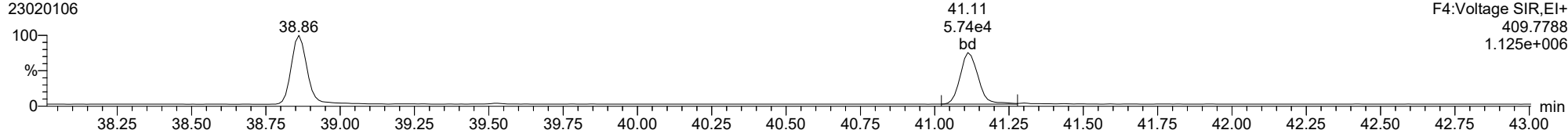
1234789-HpCDF

23020106



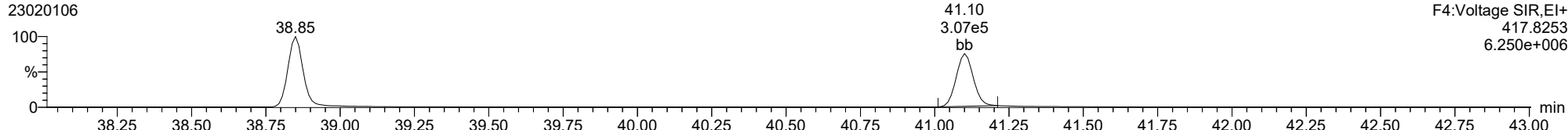
1234789-HpCDF

23020106



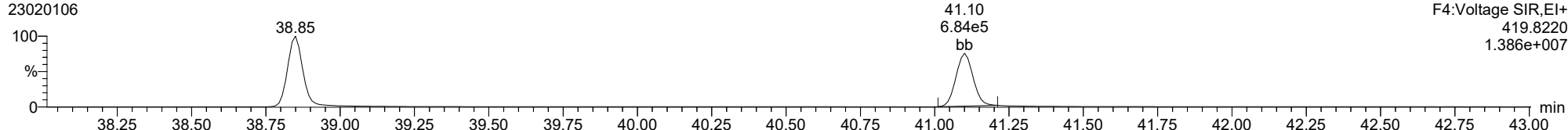
13C-1234789-HpCDF

23020106



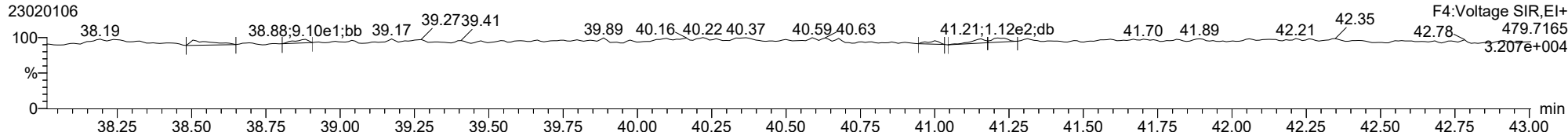
13C-1234789-HpCDF

23020106



FUNCTION4 NCDPE

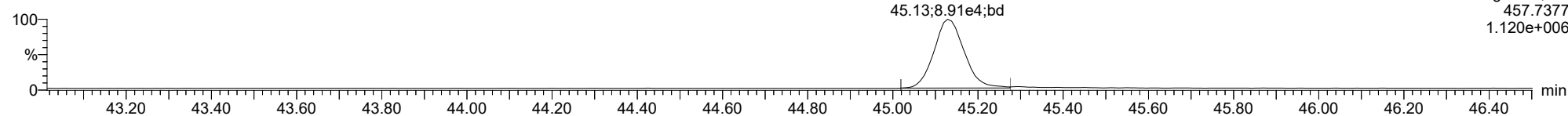
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

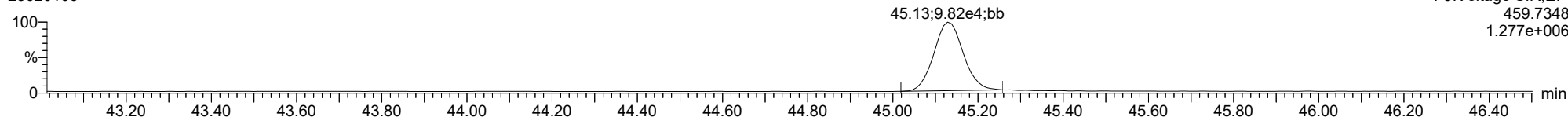
OCDD

23020106



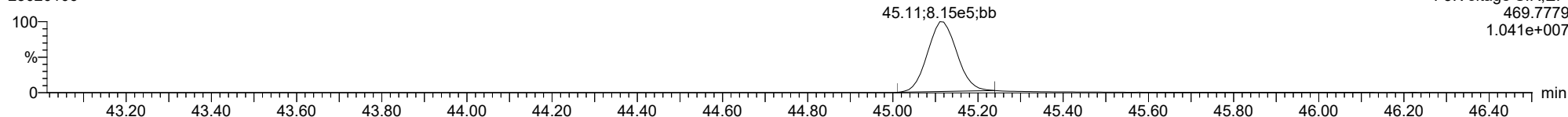
OCDD

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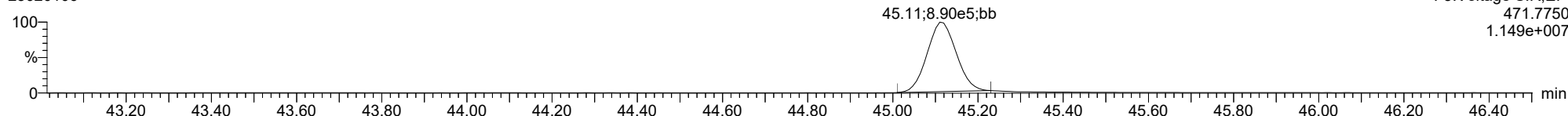
13C-OCDD

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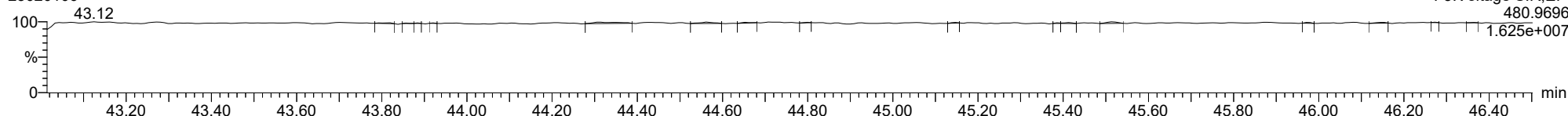
13C-OCDD

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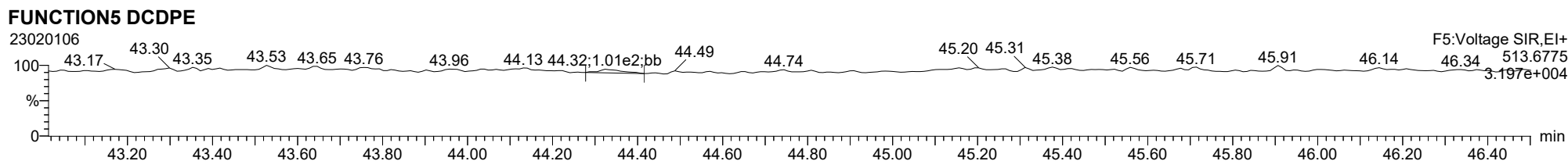
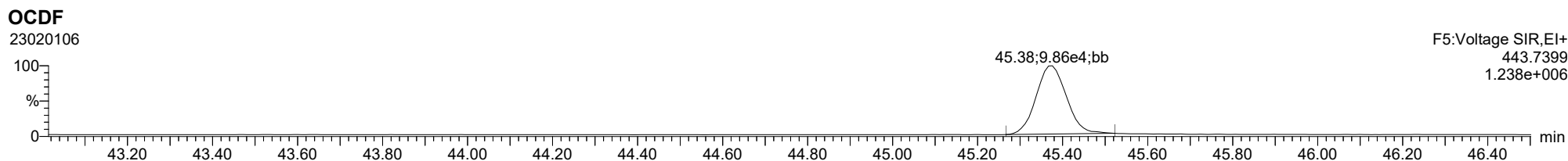
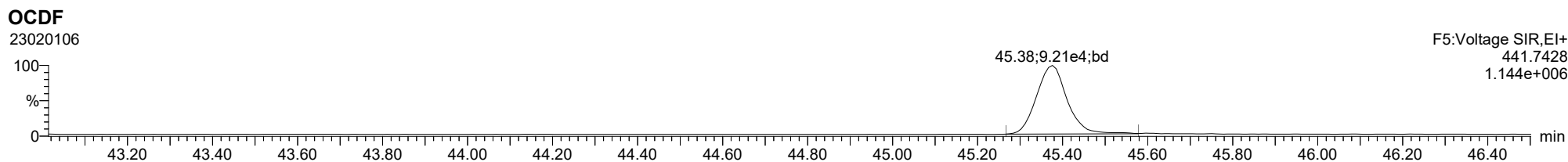


FUNCTION5 PFK

23020106



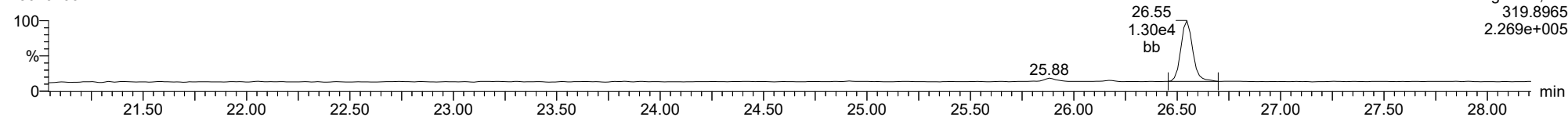
ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk



ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

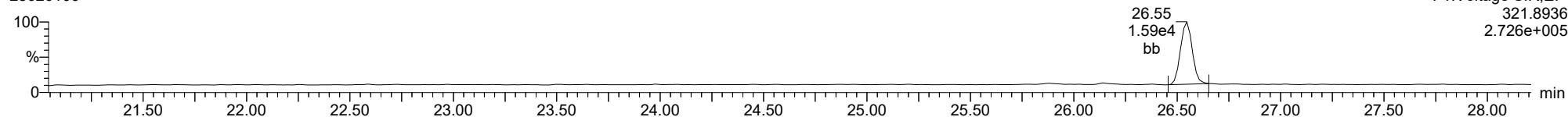
Total-tetradioxins

23020106



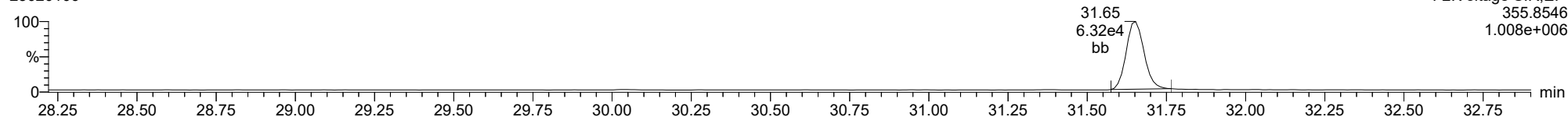
Total-tetradioxins

23020106



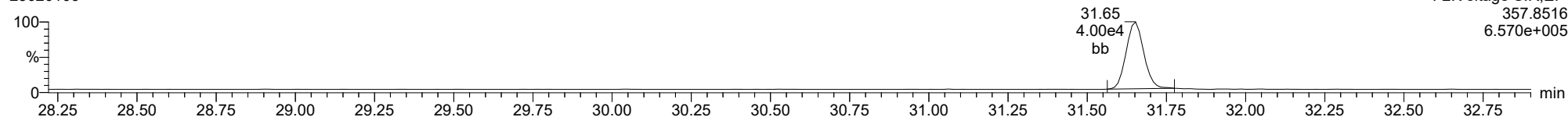
Total-pentadioxins

23020106



Total-pentadioxins

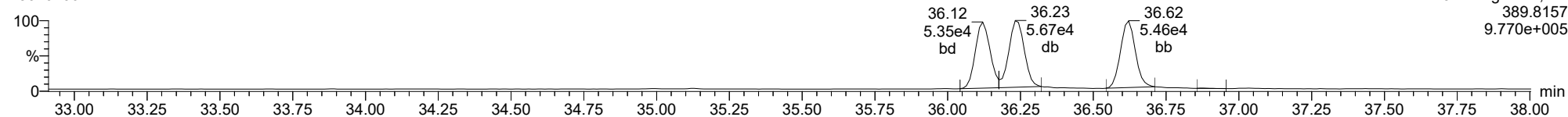
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

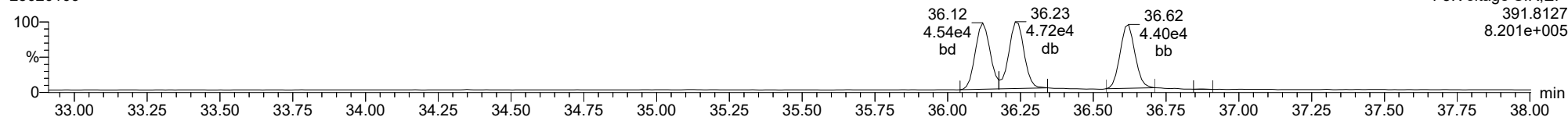
Total-hexadioxins

23020106



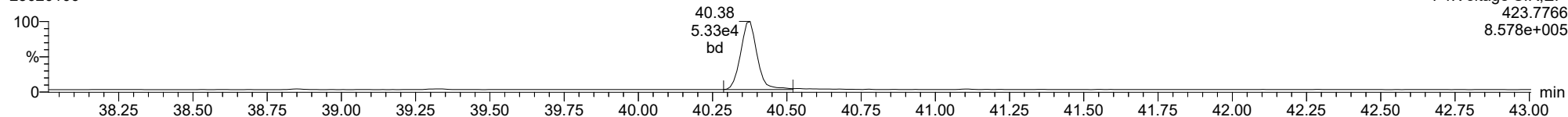
Total-hexadioxins

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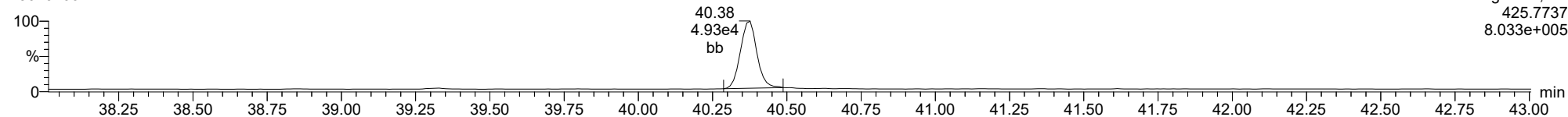
Total-heptadioxins

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Total-heptadioxins

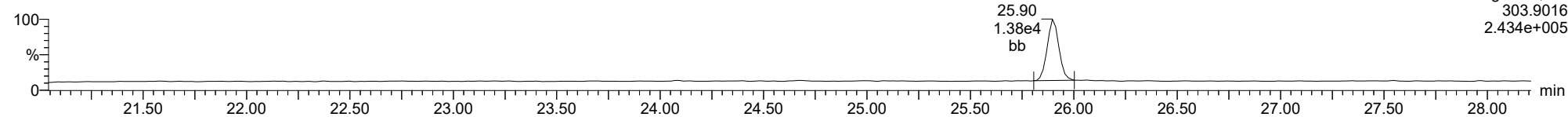
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

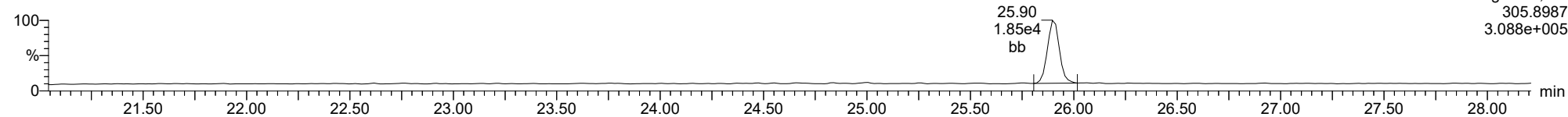
Total-tetrafurans

23020106



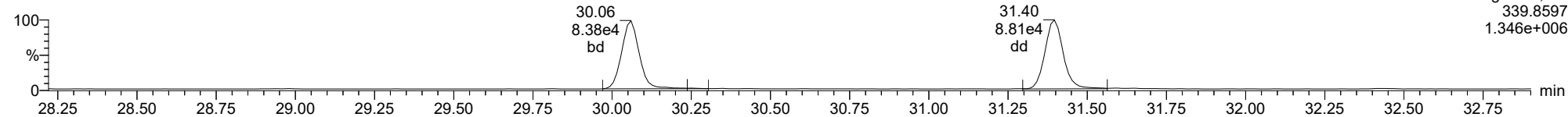
Total-tetrafurans

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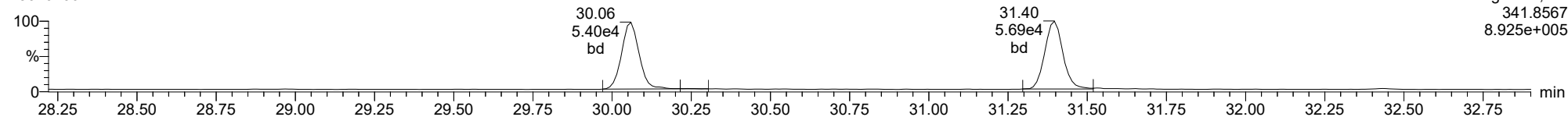
Total-pentafurans

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Total-pentafurans

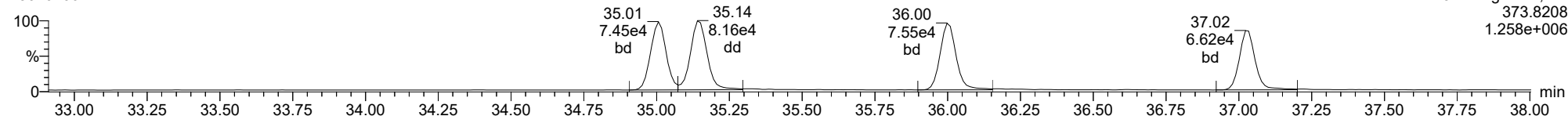
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ID: CS2CR, Name: 23020106, Date: 01-Feb-2023, Time: 17:07:07, Conditions: AUTOSPEC01, User: pk

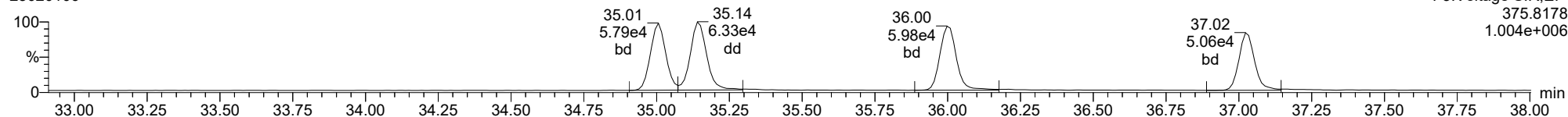
Total-hexafurans

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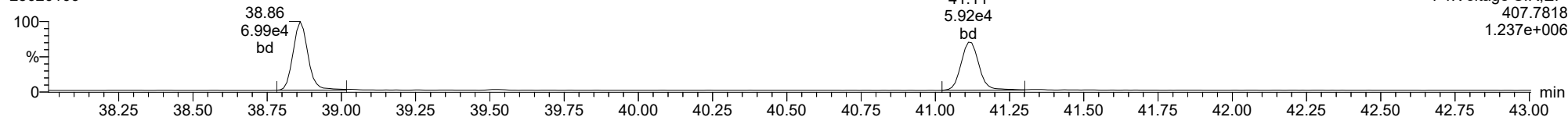
Total-hexafurans

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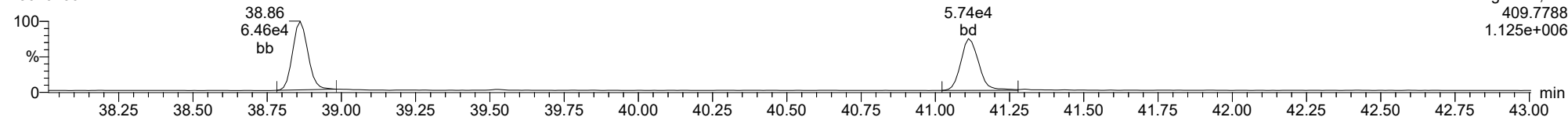
Total-heptafurans

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\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

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

Printed: Friday, February 03, 2023 10:37:38 Pacific Standard Time

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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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**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-tetradioxins	26.20	8.471e4	1.070e5	1.099	0.79	0.77	703.2	YES	NO	bb	bb	15.362
4	Total-tetradioxins	25.72	2.731e4	3.262e4	1.099	0.84	0.77	331.8	YES	NO	bd	bb	4.800
5	Total-tetradioxins	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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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, 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	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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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, 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
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\230201CIH.qld

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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
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

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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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PFK4

	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

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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	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

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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...	27.82	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

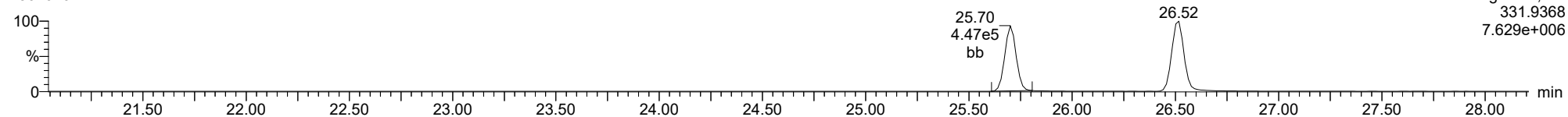
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1													

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

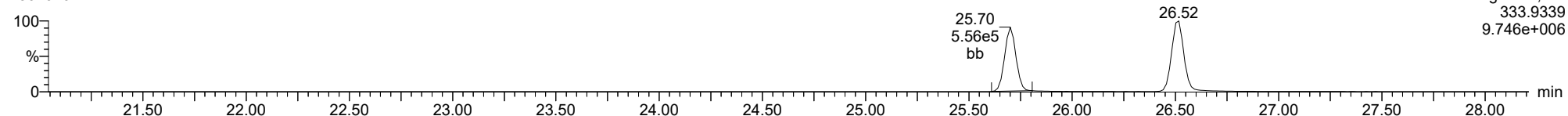
13C-1234-TCDD

23020107



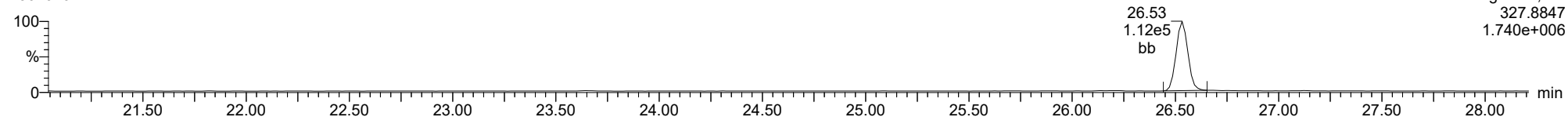
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23020107



37CL-2378-TCDD

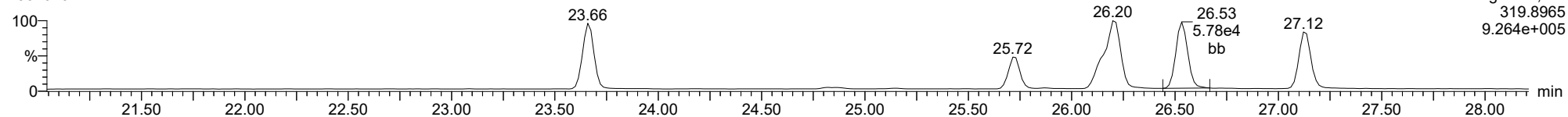
23020107



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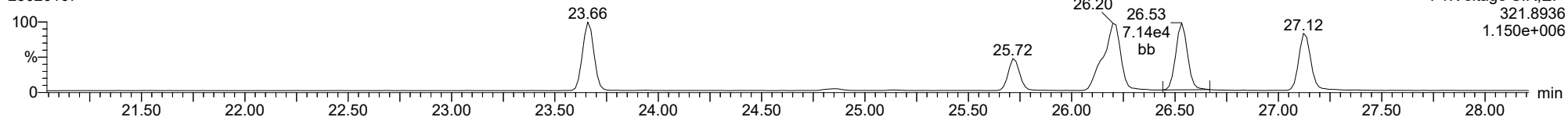
2378-TCDD

23020107



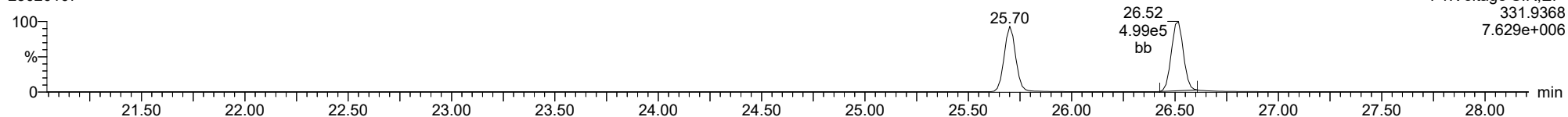
2378-TCDD

23020107



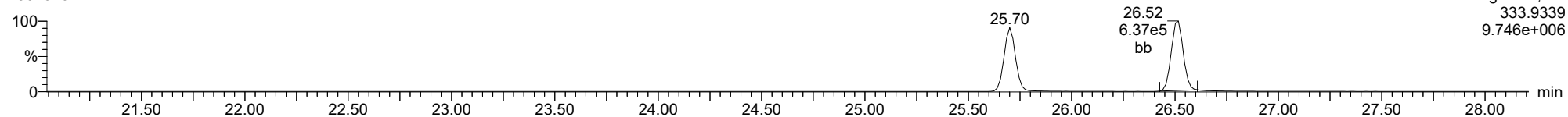
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23020107



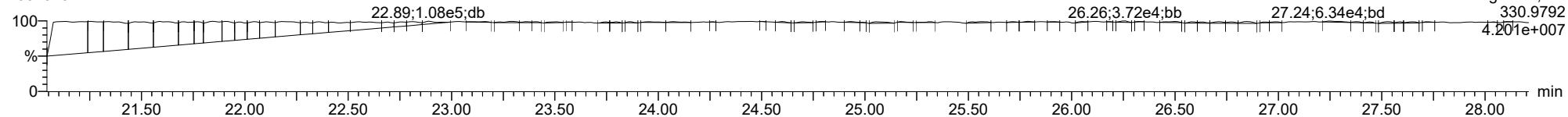
13C-2378-TCDD

23020107



FUNCTION1 PFK

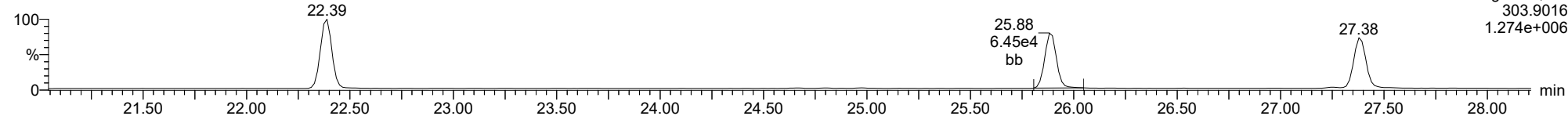
23020107



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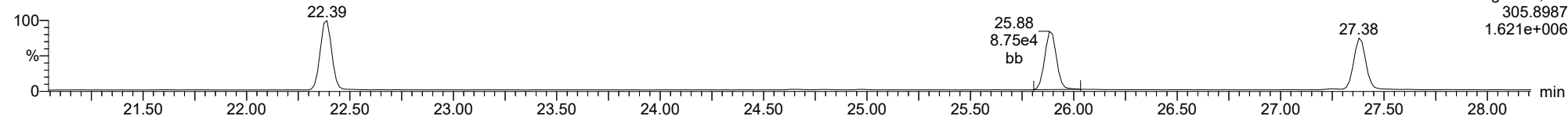
2378-TCDF

23020107



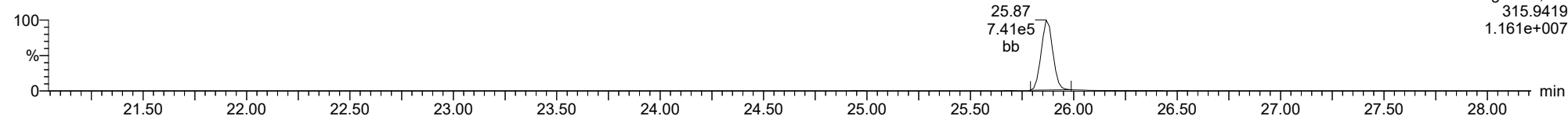
2378-TCDF

23020107



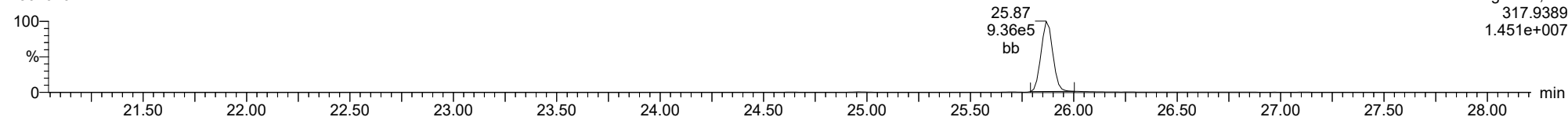
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23020107



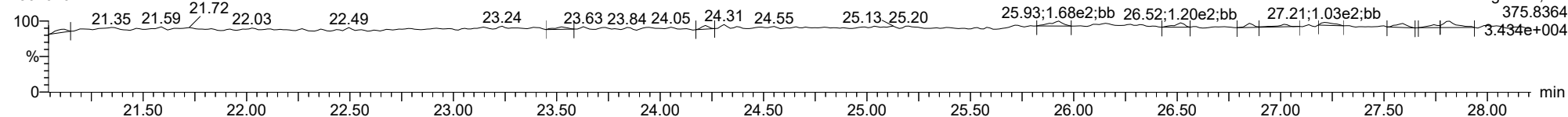
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23020107



FUNCTION1 HXCDPE

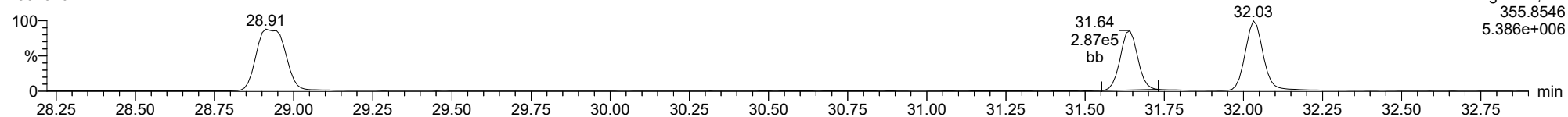
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

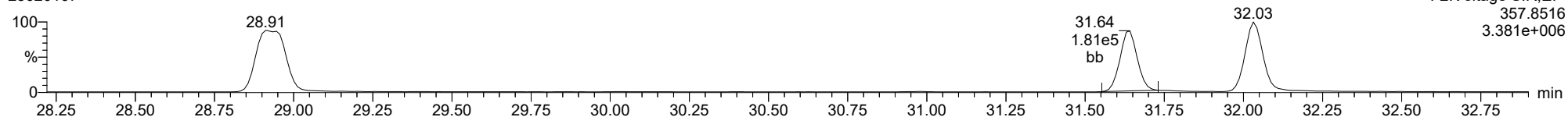
12378-PeCDD

23020107



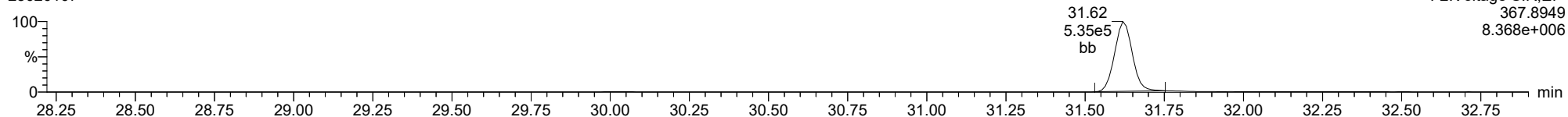
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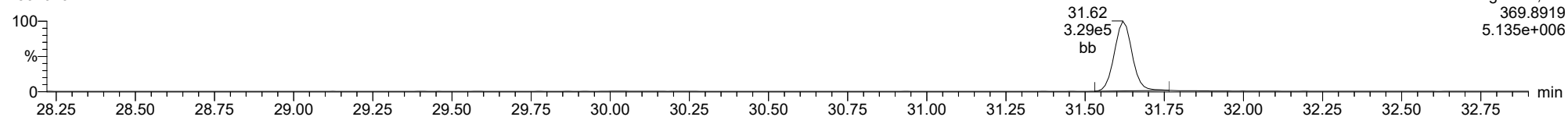
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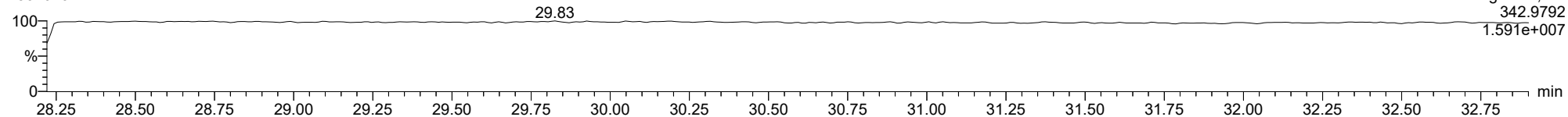
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FUNCTION2 PFK

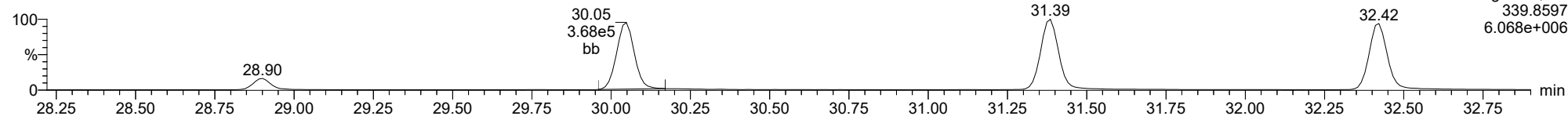
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

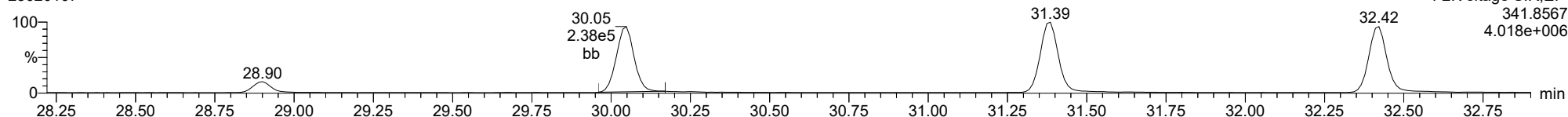
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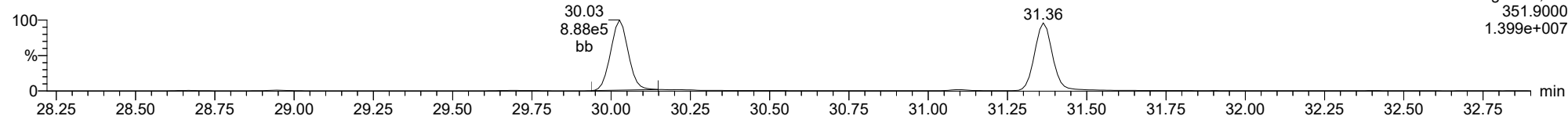
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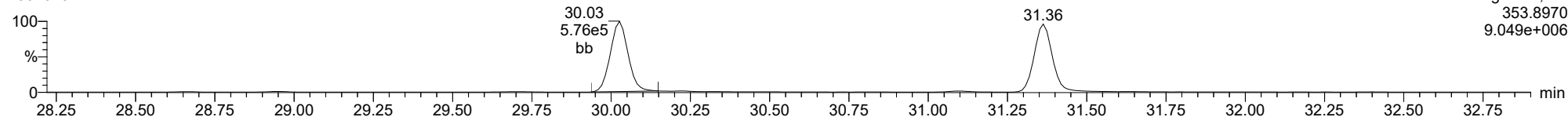
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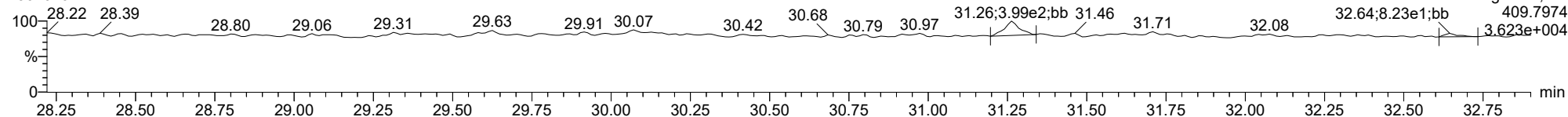
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FUNCTION2 HPCDPE

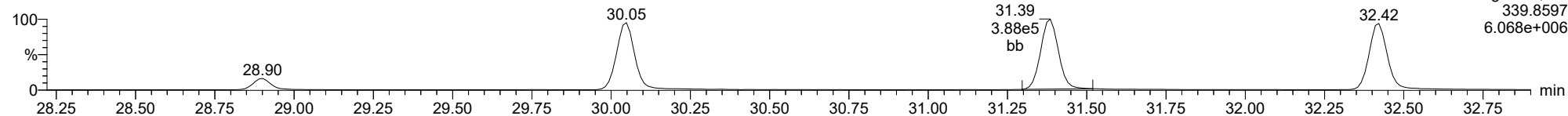
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

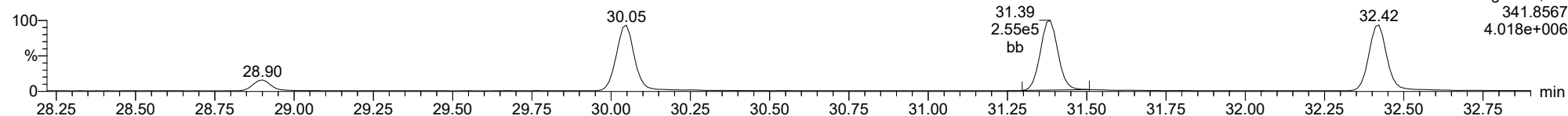
23478-PeCDF

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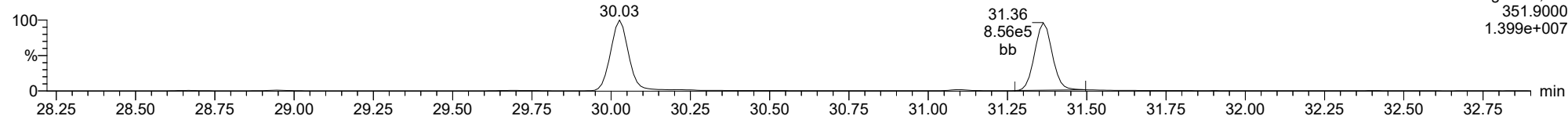
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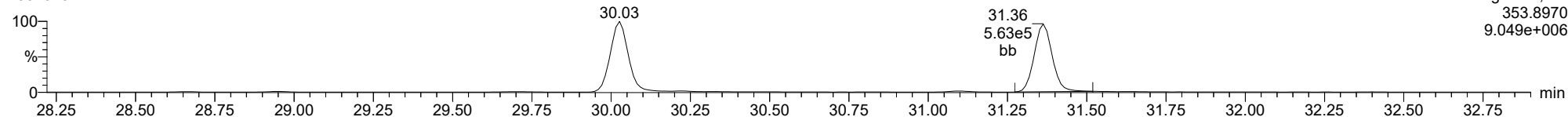
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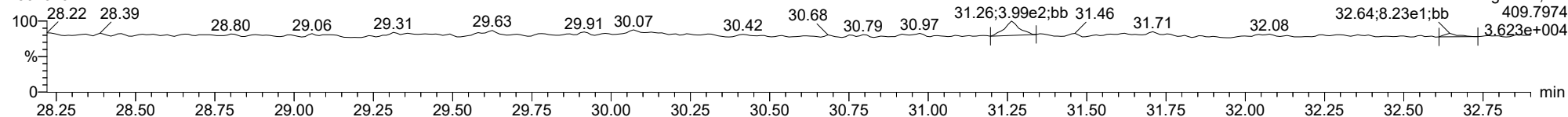
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FUNCTION2 HPCDPE

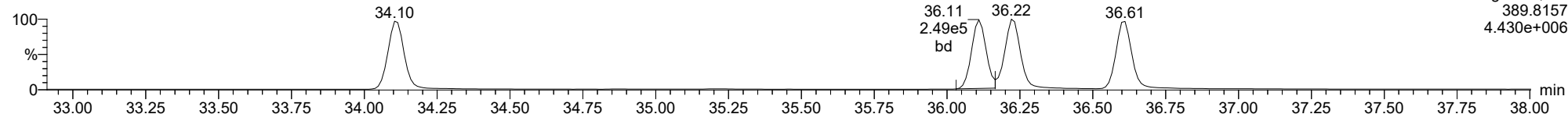
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

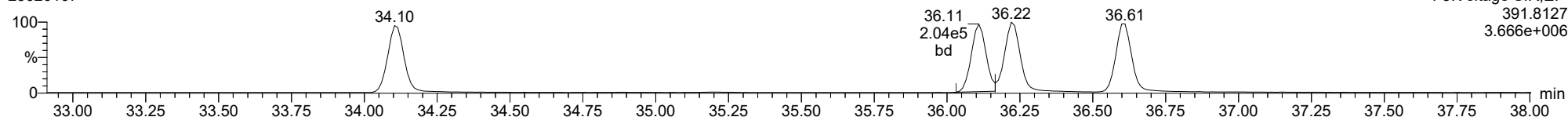
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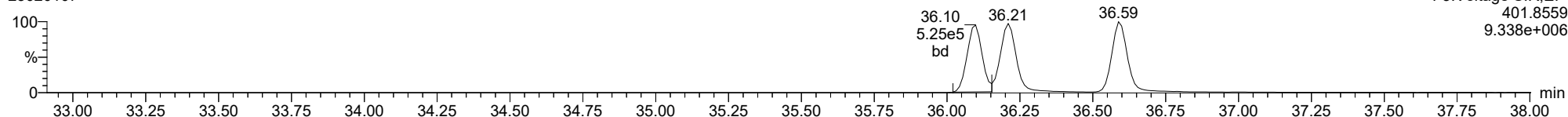
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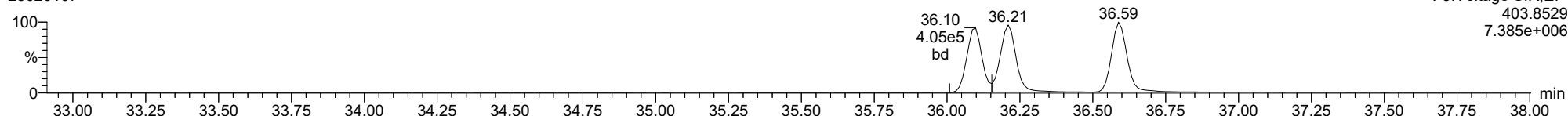
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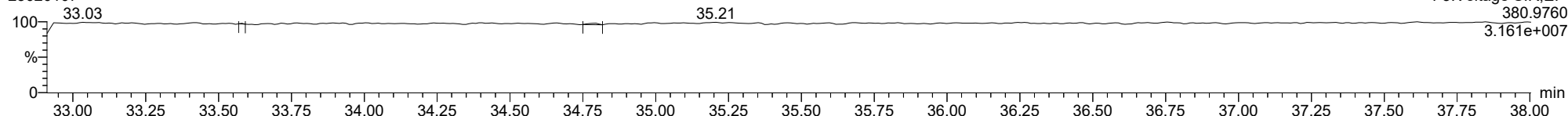
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FUNCTION3 PFK

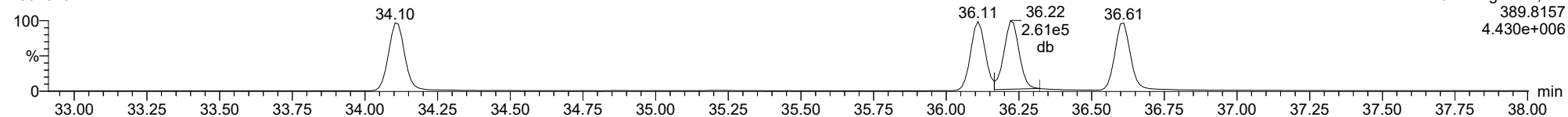
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

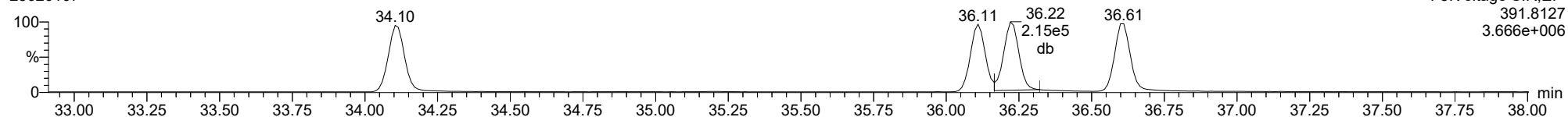
123678-HxCDD

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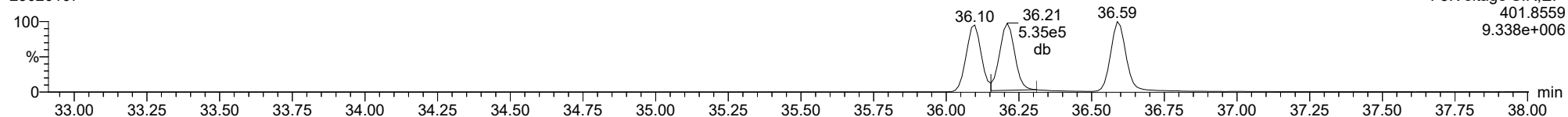
123678-HxCDD

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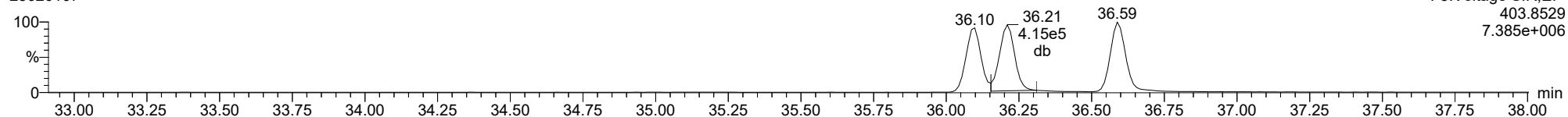
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13C-123678-HxCDD

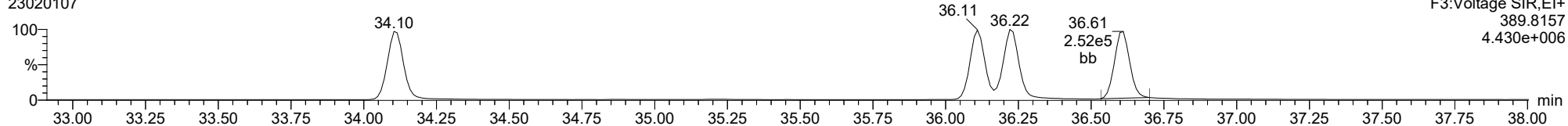
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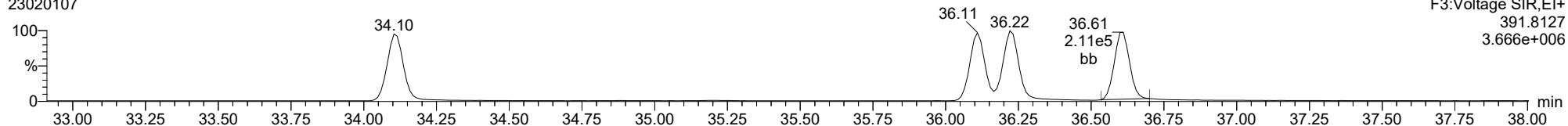
123789-HxCDD

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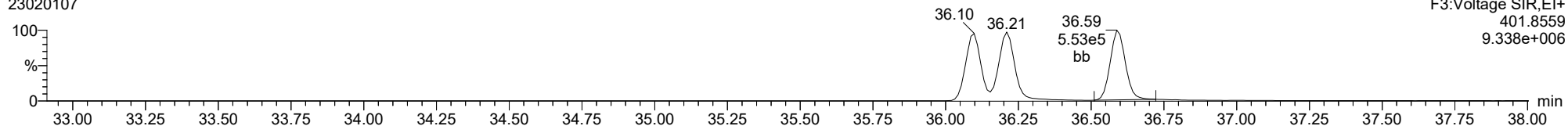
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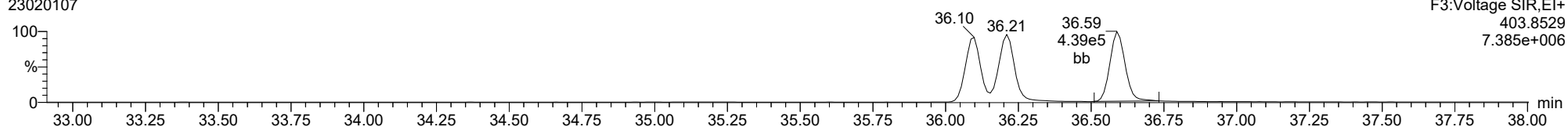
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13C-123789-HxCDD

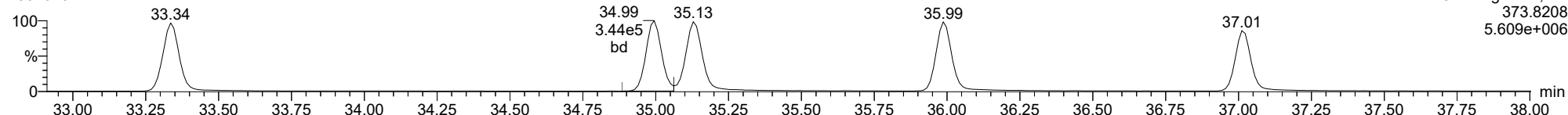
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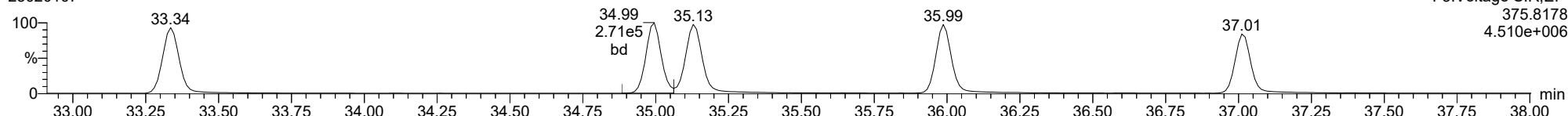
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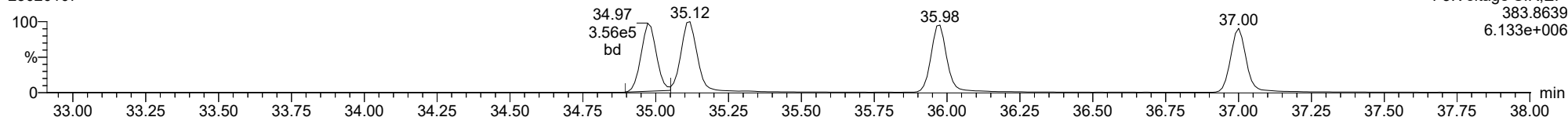
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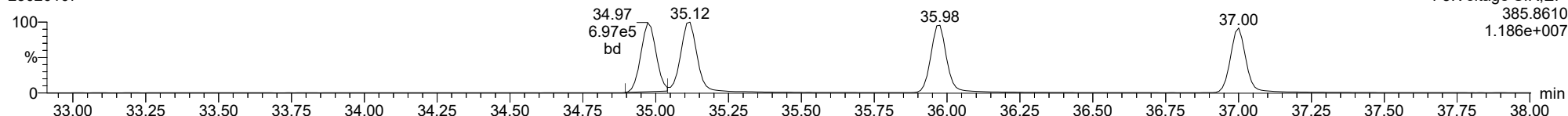
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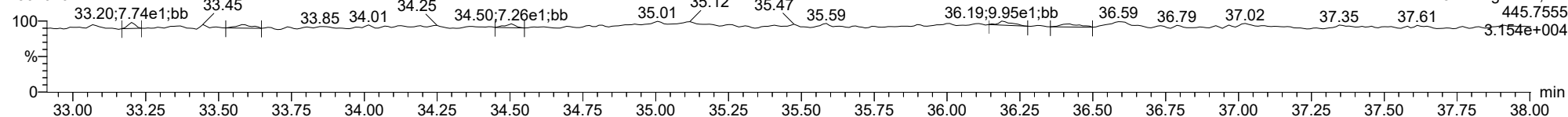
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FUNCTION3 OCDPE

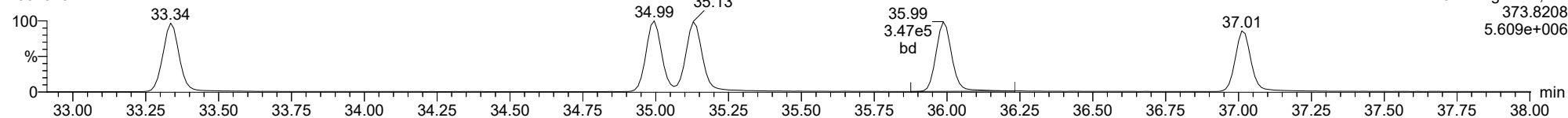
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

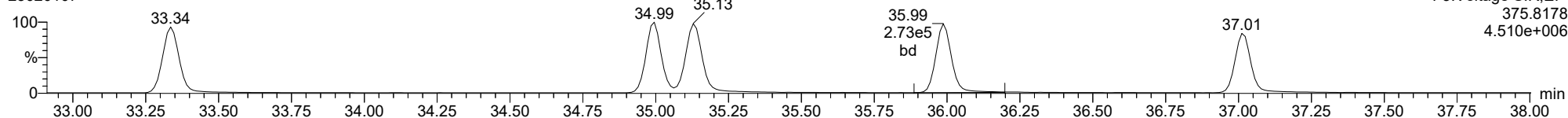
234678-HxCDF

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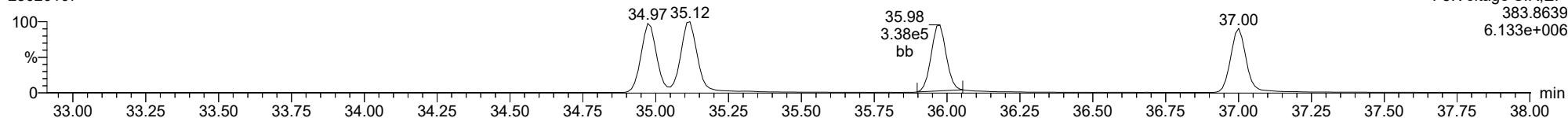
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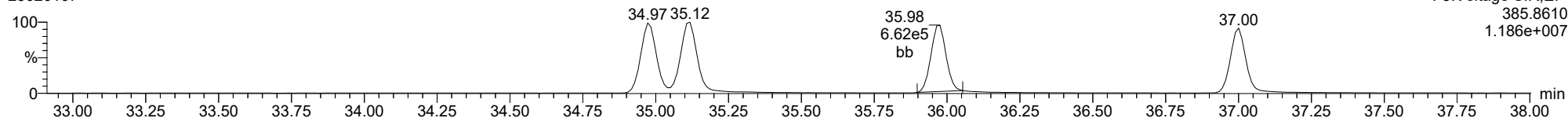
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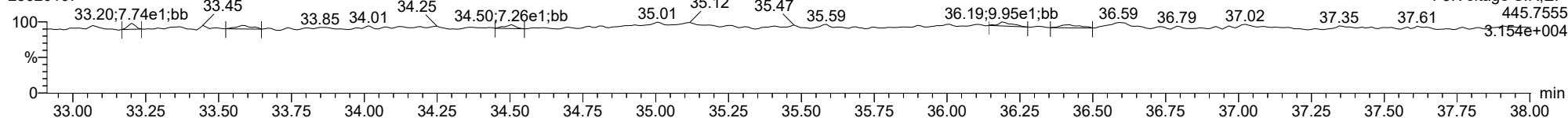
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FUNCTION3 OCDPE

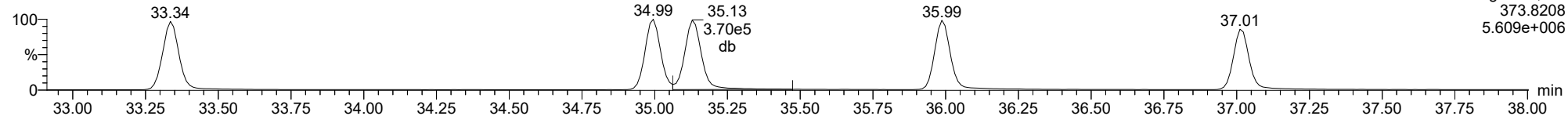
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

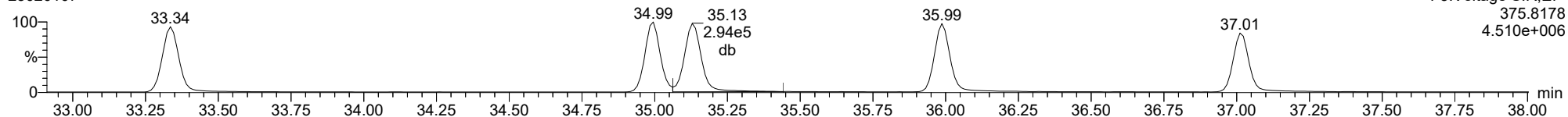
123678-HxCDF

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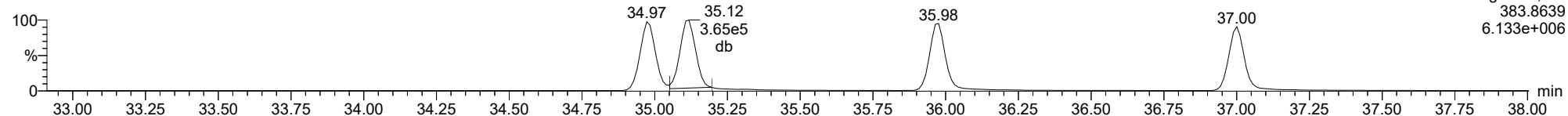
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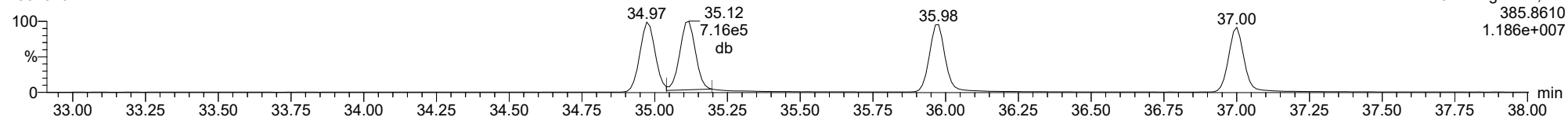
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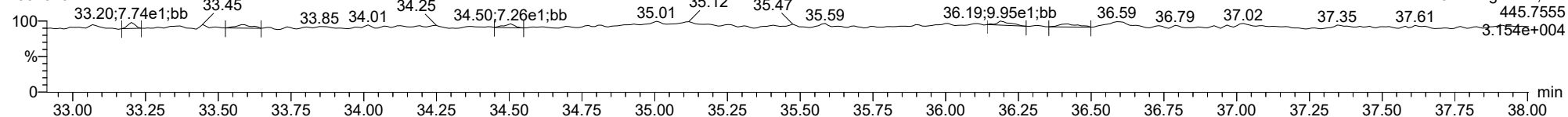
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FUNCTION3 OCDPE

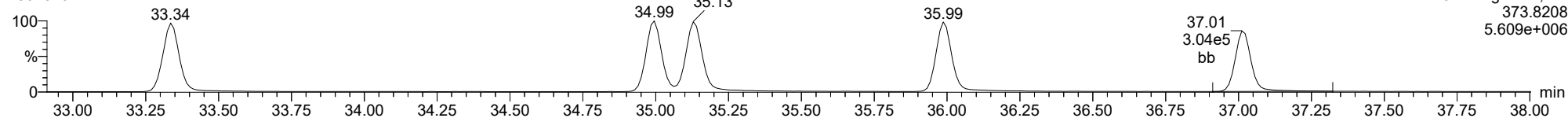
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

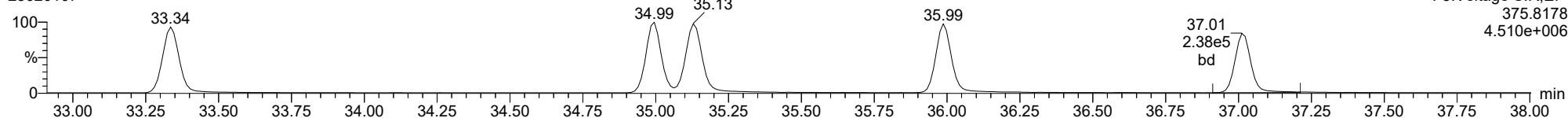
123789-HxCDF

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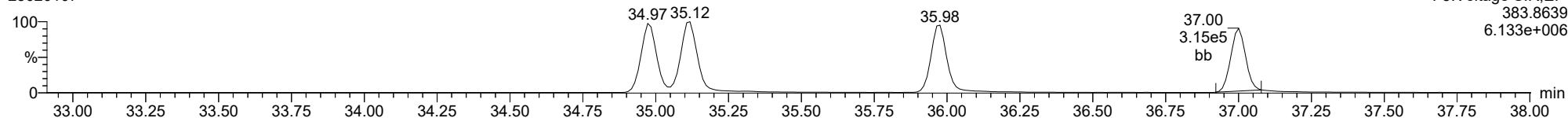
123789-HxCDF

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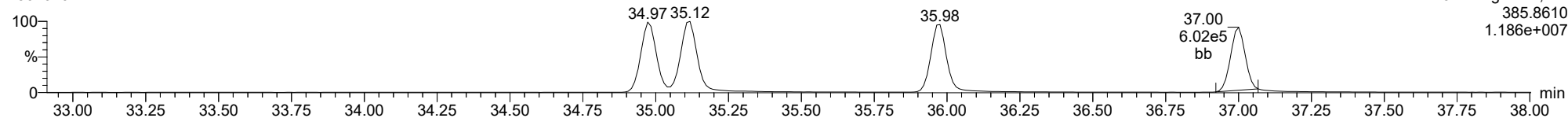
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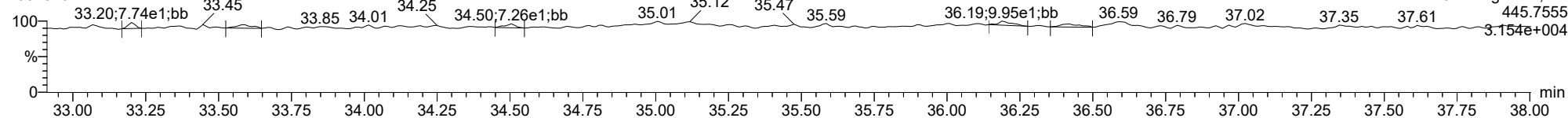
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FUNCTION3 OCDPE

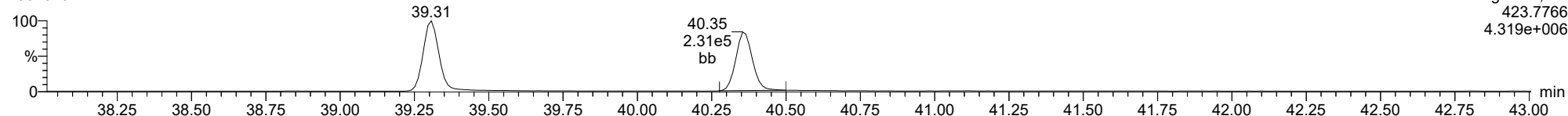
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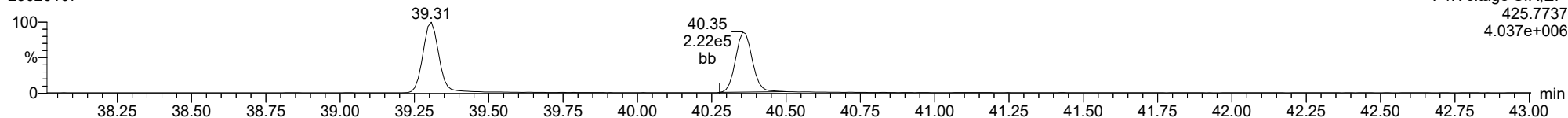
1234678-HpCDD

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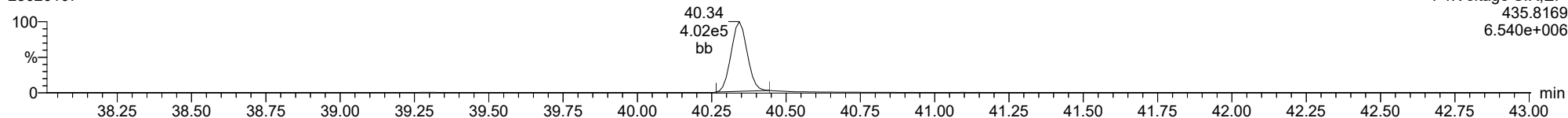
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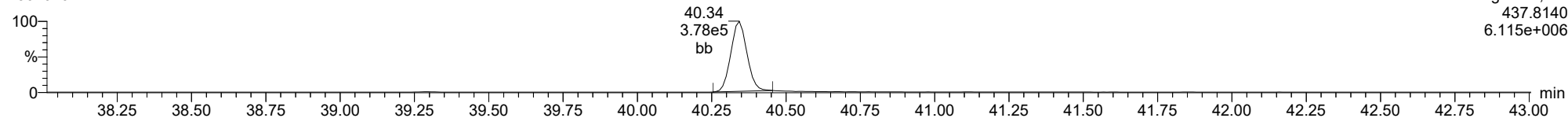
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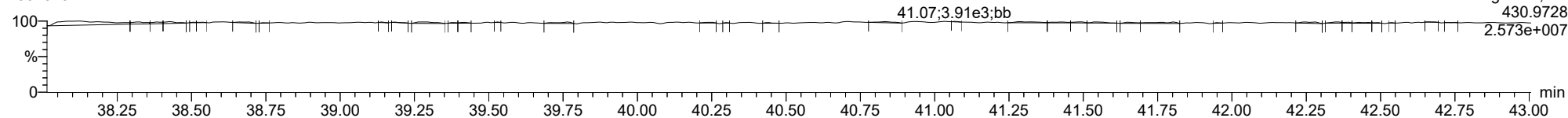
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FUNCTION4 PFK

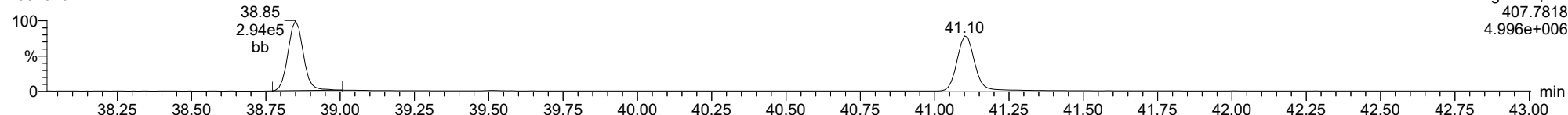
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

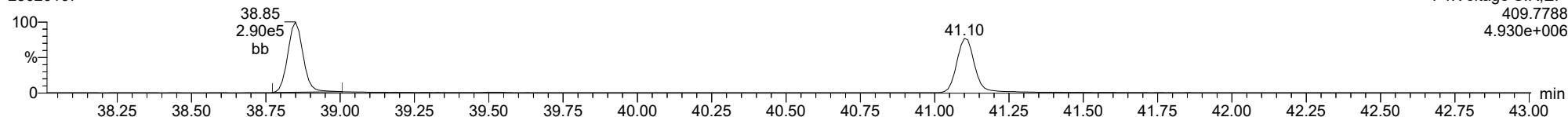
1234678-HpCDF

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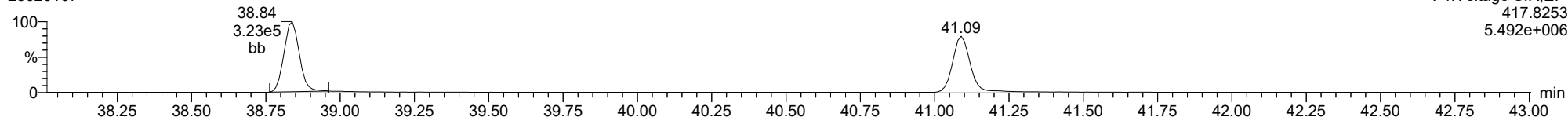
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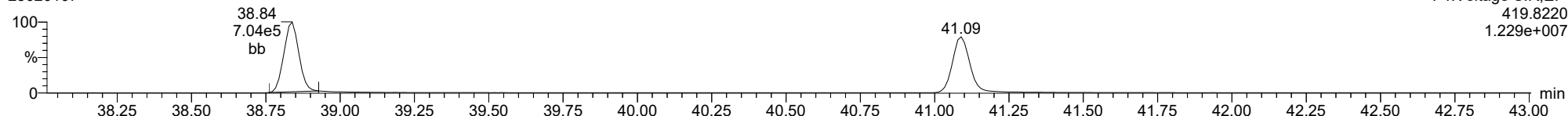
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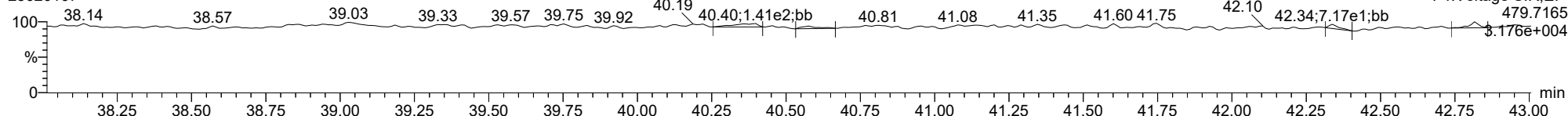
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FUNCTION4 NCDPE

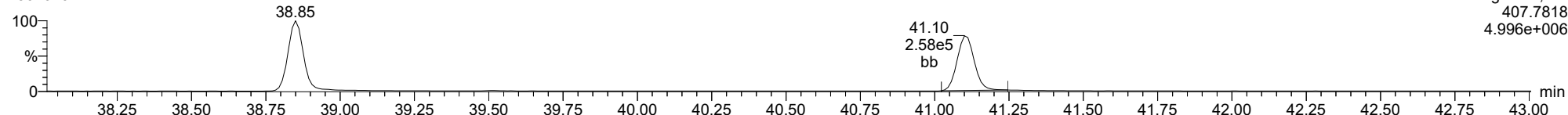
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

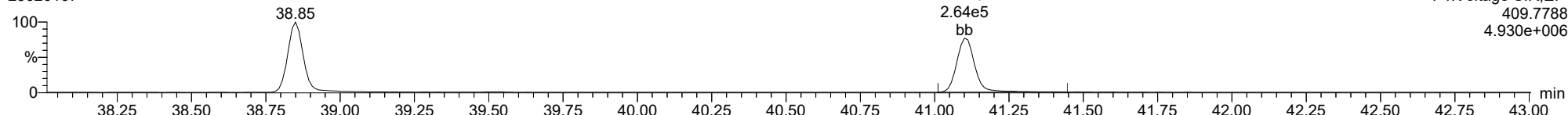
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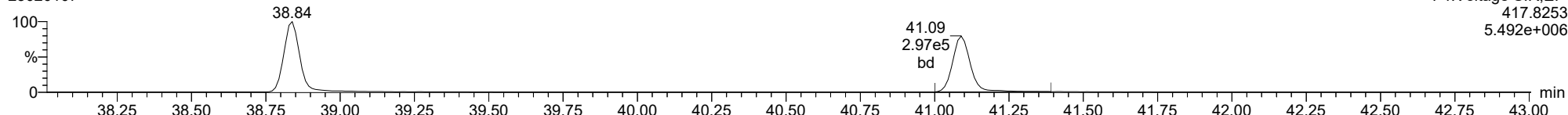
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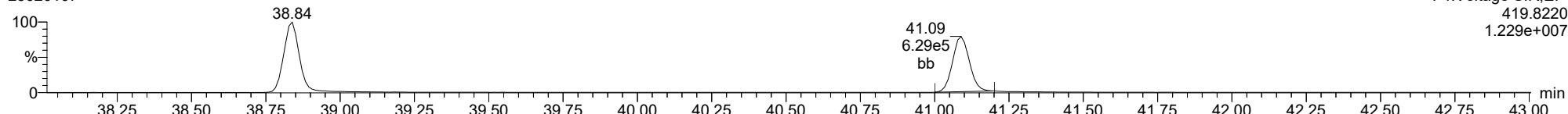
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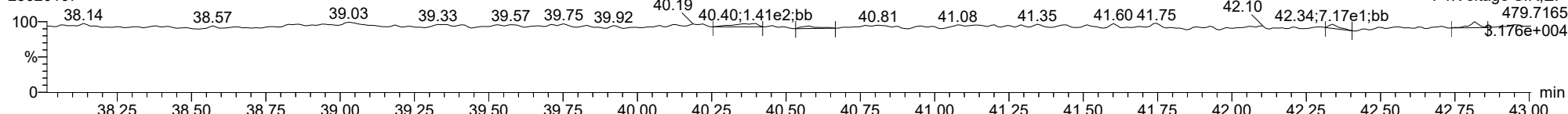
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FUNCTION4 NCDPE

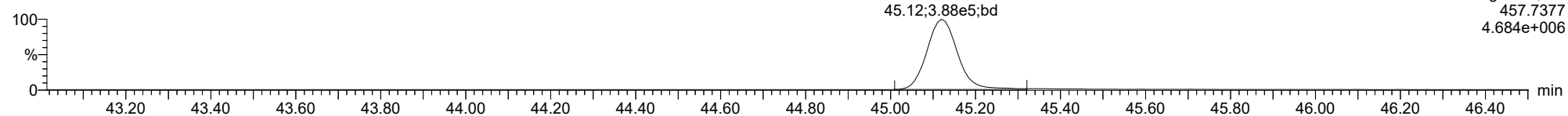
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OCDD

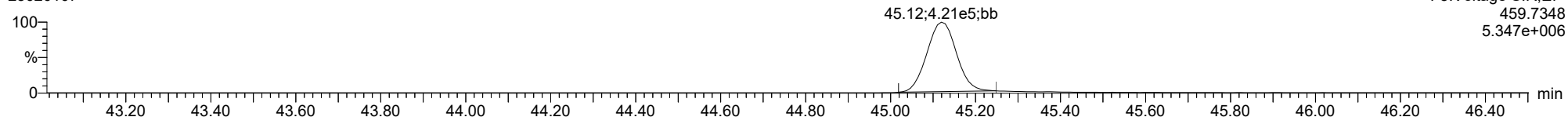
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F5:Voltage SIR,EI+
457.7377
4.684e+006

OCDD

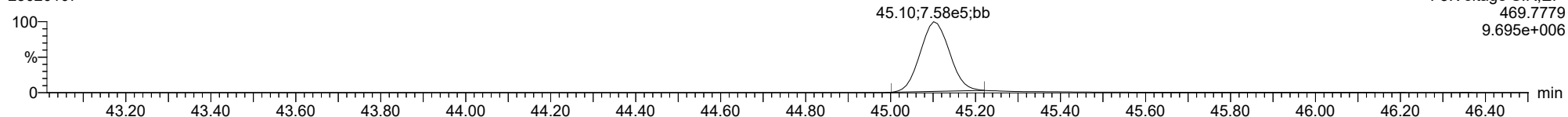
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F5:Voltage SIR,EI+
459.7348
5.347e+006

13C-OCDD

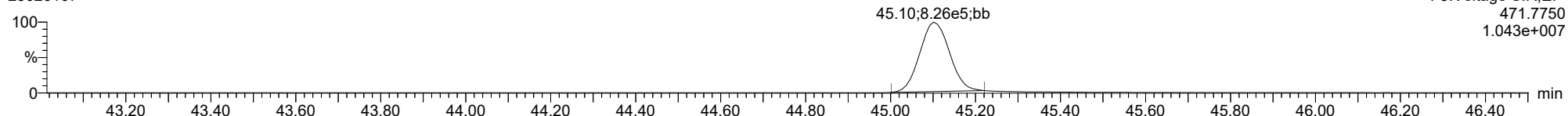
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F5:Voltage SIR,EI+
469.7779
9.695e+006

13C-OCDD

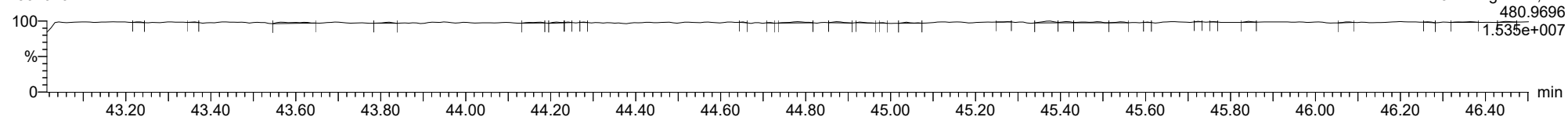
23020107



F5:Voltage SIR,EI+
471.7750
1.043e+007

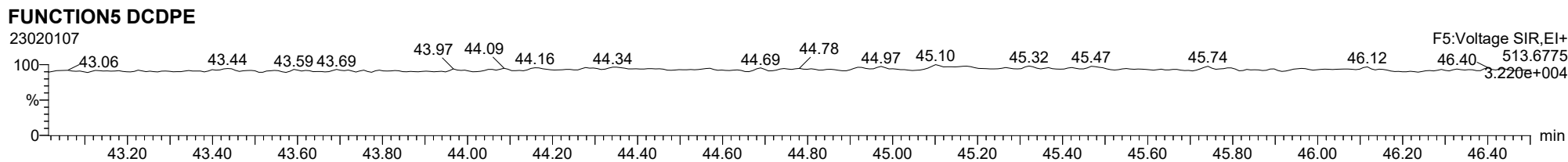
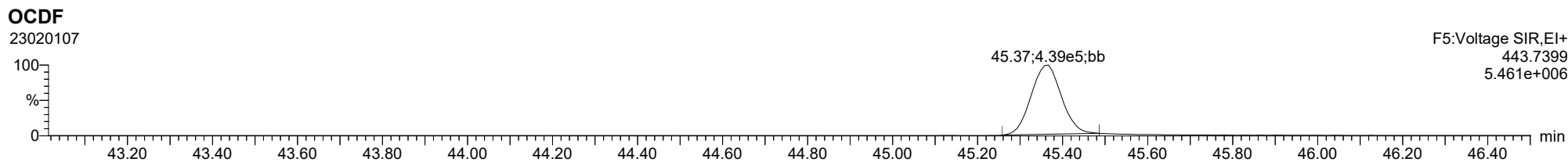
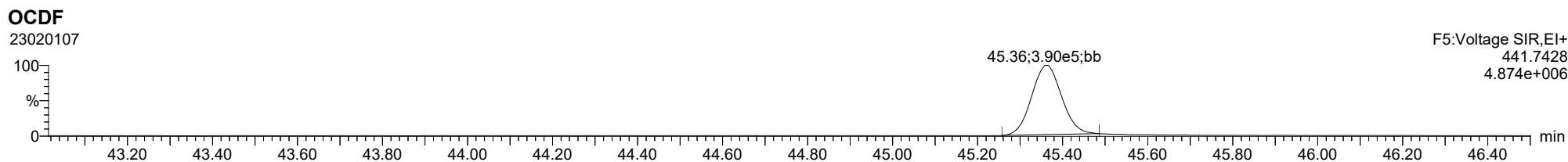
FUNCTION5 PFK

23020107



F5:Voltage SIR,EI+
480.9696
1.535e+007

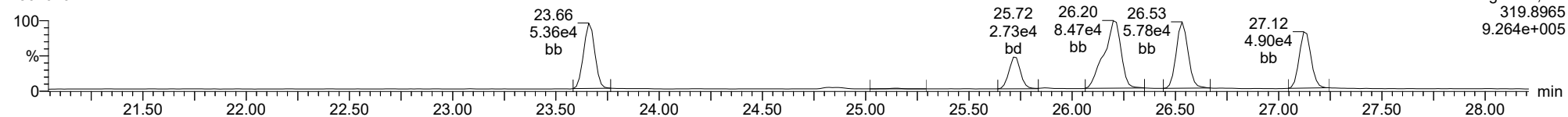
ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk



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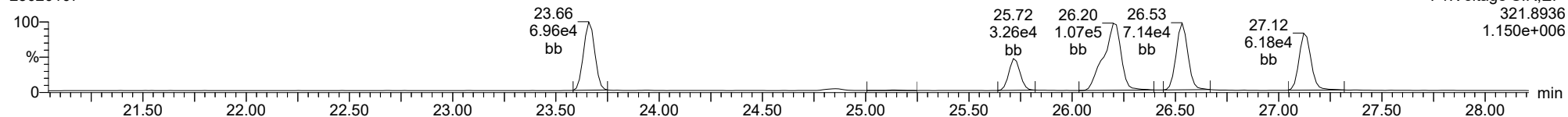
Total-tetraoxins

23020107



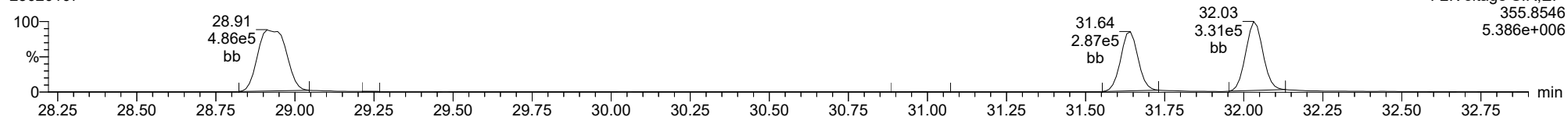
Total-tetraoxins

23020107



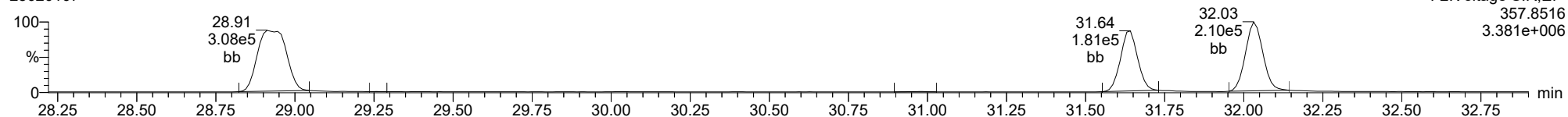
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23020107



Total-pentadioxins

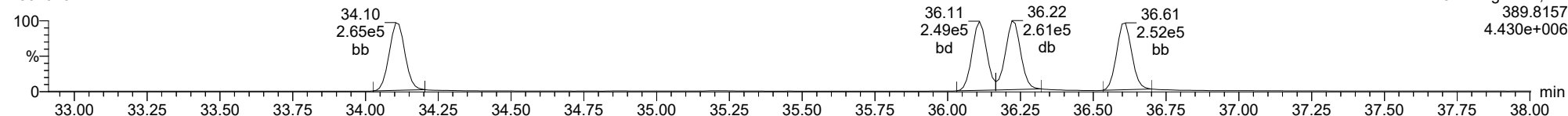
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

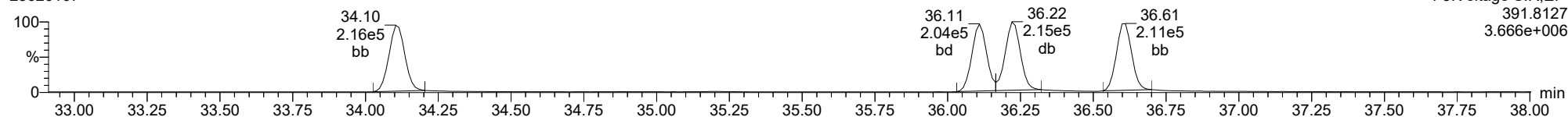
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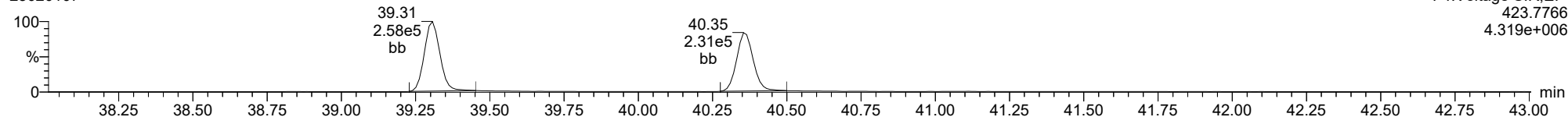
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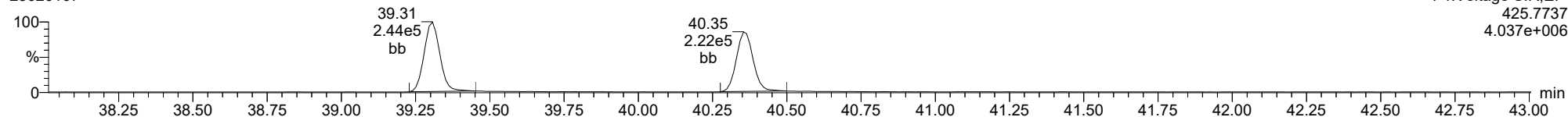
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Total-heptadioxins

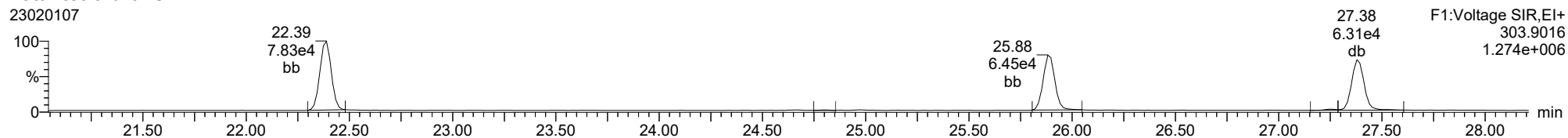
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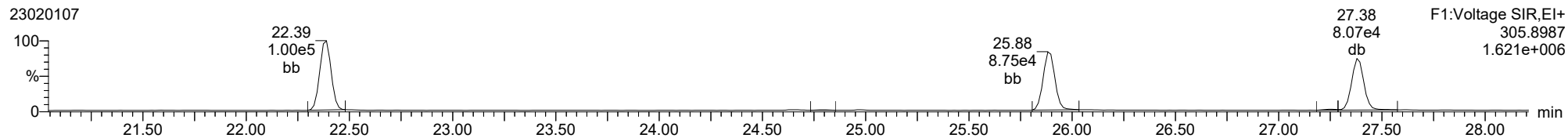
Total-tetrafurans

23020107



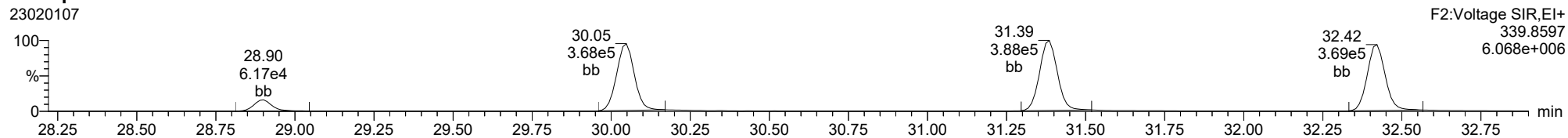
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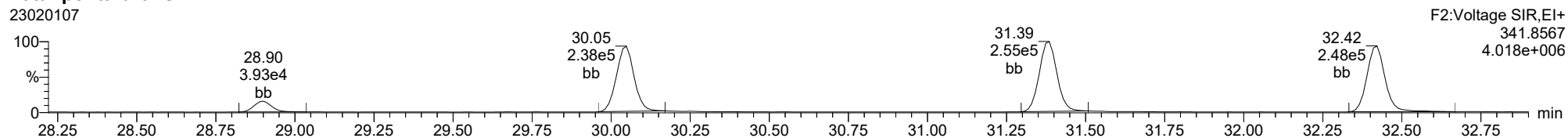
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23020107



Total-pentafurans

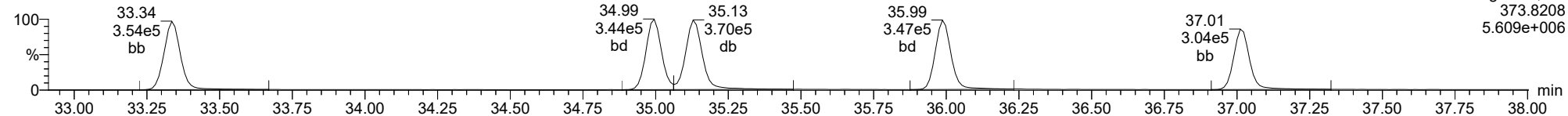
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ID: CS3CR, Name: 23020107, Date: 01-Feb-2023, Time: 17:56:19, Conditions: AUTOSPEC01, User: pk

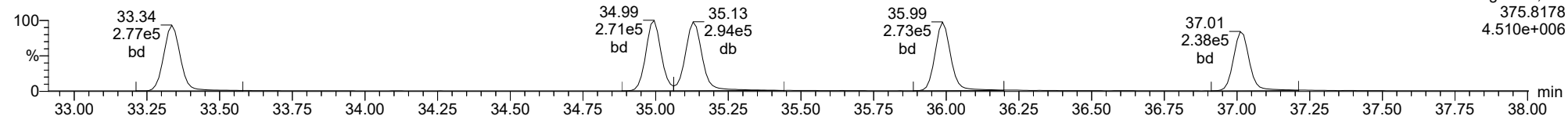
Total-hexafurans

23020107



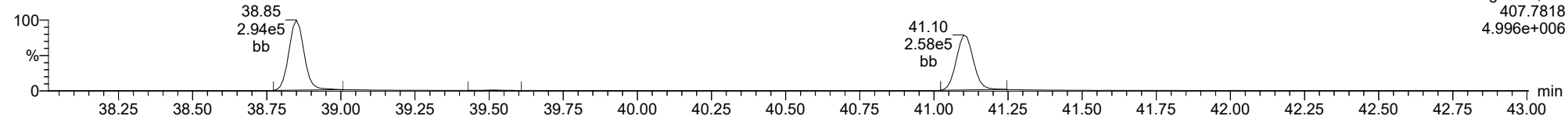
Total-hexafurans

23020107



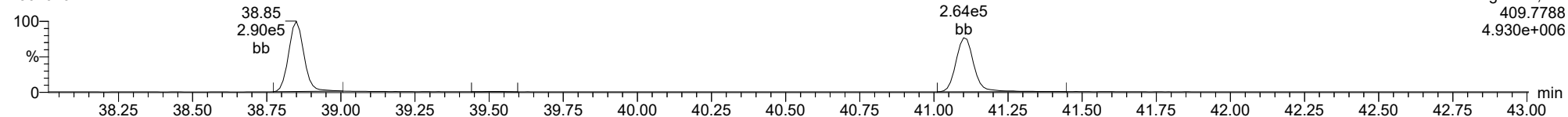
Total-heptafurans

23020107



Total-heptafurans

23020107



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

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

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

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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ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, 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	36.60	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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PFK1

	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		

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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

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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...	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

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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

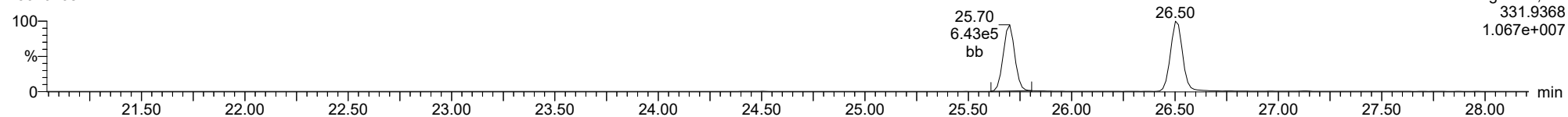
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.14	3.248e2					6.0	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230131H.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

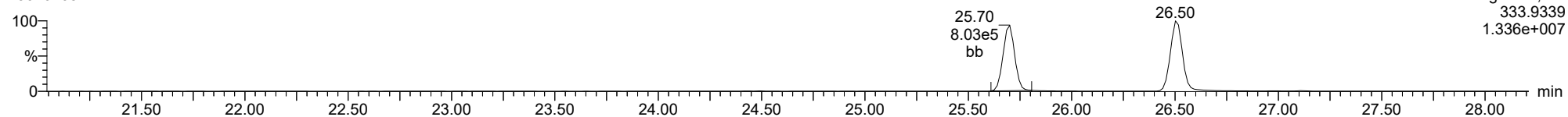
23020108



F1:Voltage SIR,El+
331.9368
1.067e+07

13C-1234-TCDD

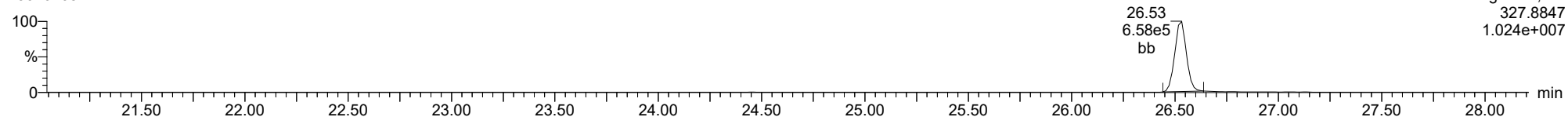
23020108



F1:Voltage SIR,El+
333.9339
1.336e+07

37CL-2378-TCDD

23020108

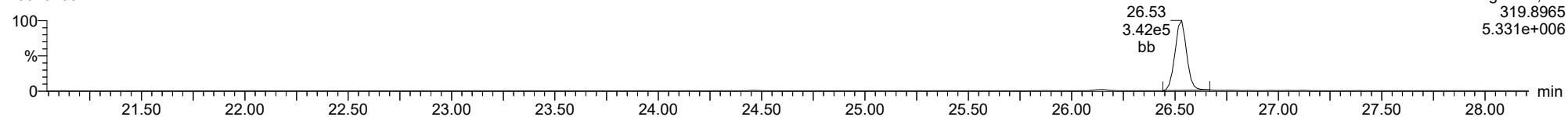


F1:Voltage SIR,El+
327.8847
1.024e+07

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

2378-TCDD

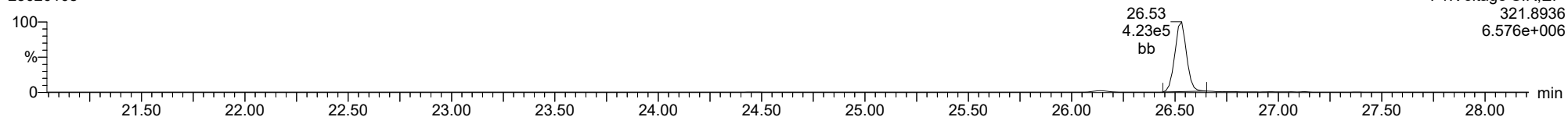
23020108



F1:Voltage SIR,EI+
319.8965
5.331e+006

2378-TCDD

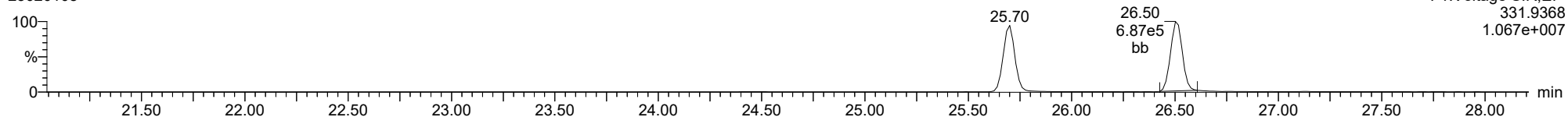
23020108



F1:Voltage SIR,EI+
321.8936
6.576e+006

13C-2378-TCDD

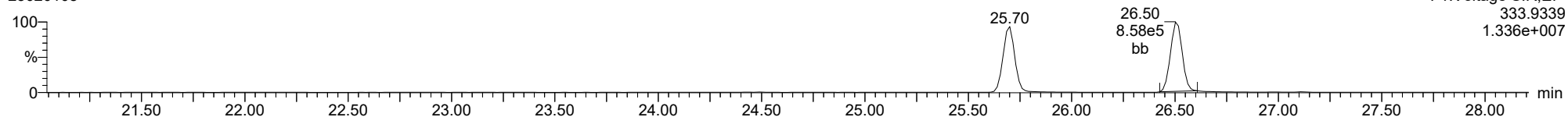
23020108



F1:Voltage SIR,EI+
331.9368
1.067e+007

13C-2378-TCDD

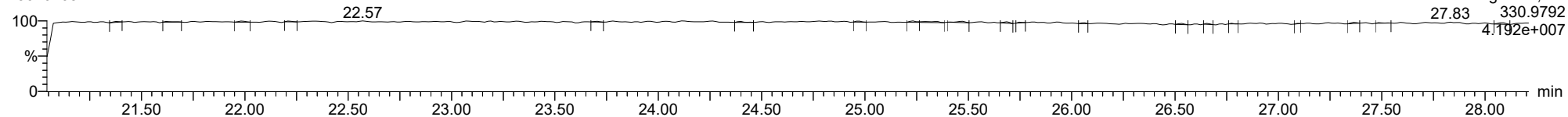
23020108



F1:Voltage SIR,EI+
333.9339
1.336e+007

FUNCTION1 PFK

23020108

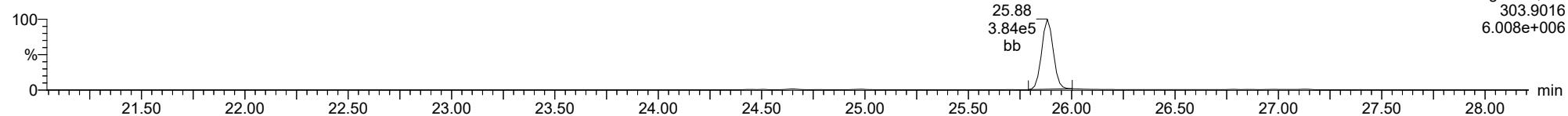


F1:Voltage SIR,EI+
27.83 330.9792
4.192e+007

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

2378-TCDF

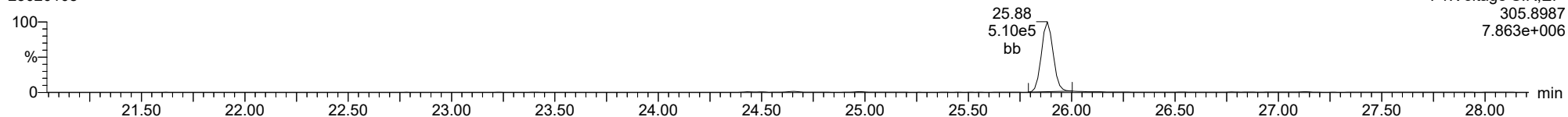
23020108



F1:Voltage SIR,EI+
303.9016
6.008e+006

2378-TCDF

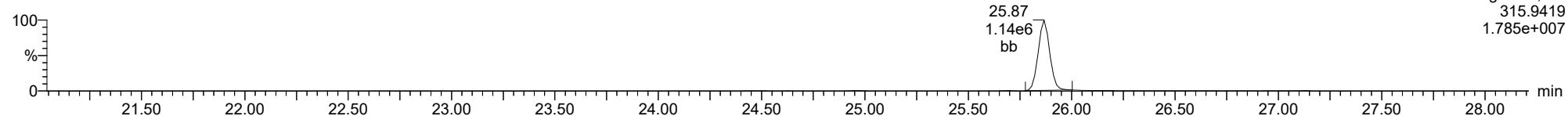
23020108



F1:Voltage SIR,EI+
305.8987
7.863e+006

13C-2378-TCDF

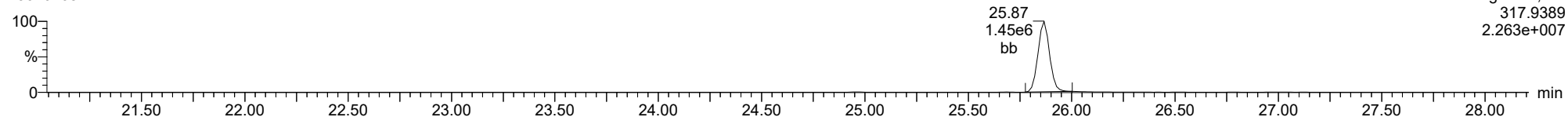
23020108



F1:Voltage SIR,EI+
315.9419
1.785e+007

13C-2378-TCDF

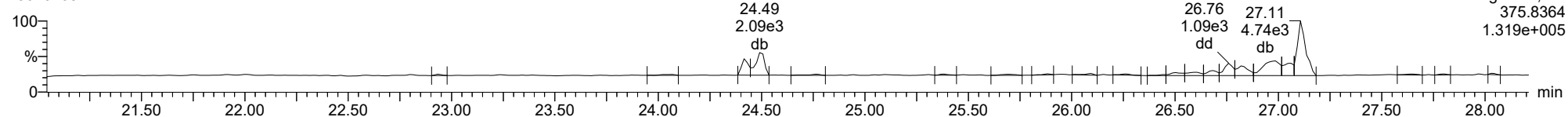
23020108



F1:Voltage SIR,EI+
317.9389
2.263e+007

FUNCTION1 HXCDPE

23020108

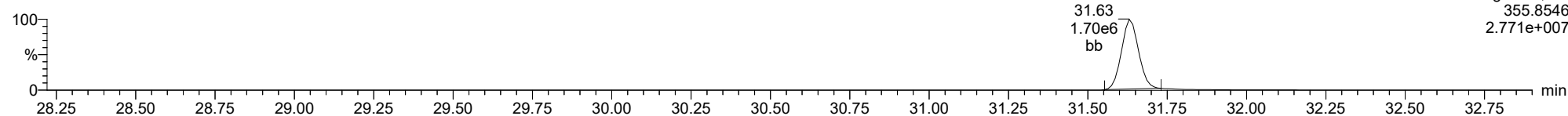


F1:Voltage SIR,EI+
375.8364
1.319e+005

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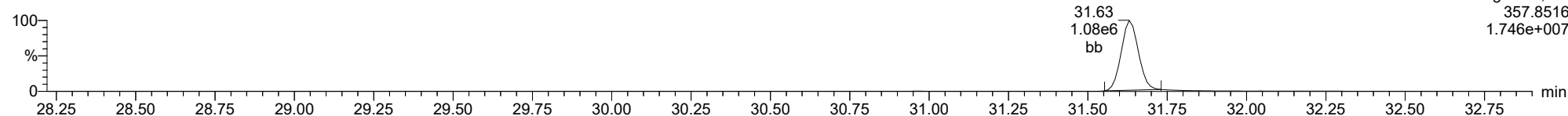
12378-PeCDD

23020108



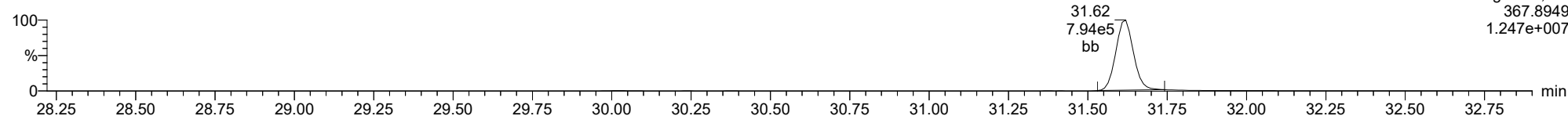
12378-PeCDD

23020108



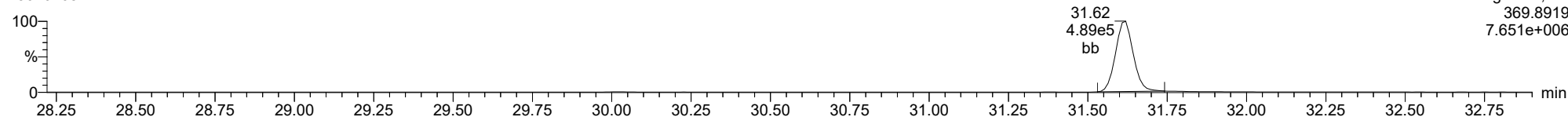
13C-12378-PeCDD

23020108



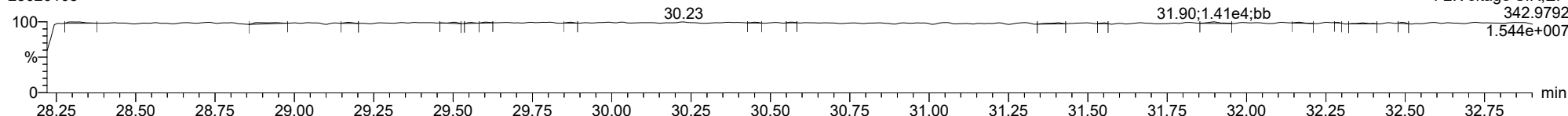
13C-12378-PeCDD

23020108



FUNCTION2 PFK

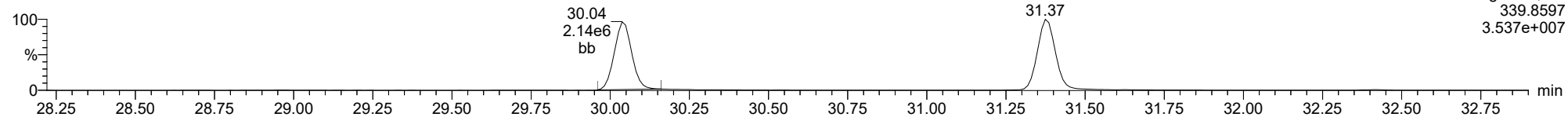
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

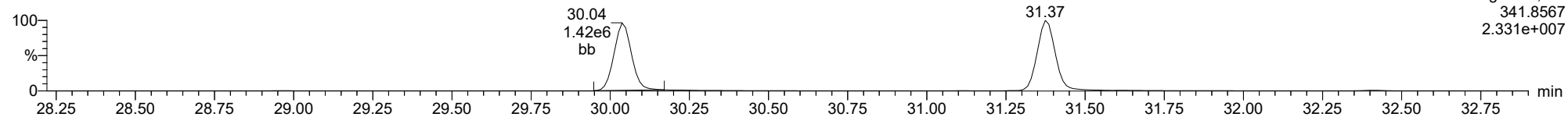
12378-PeCDF

23020108



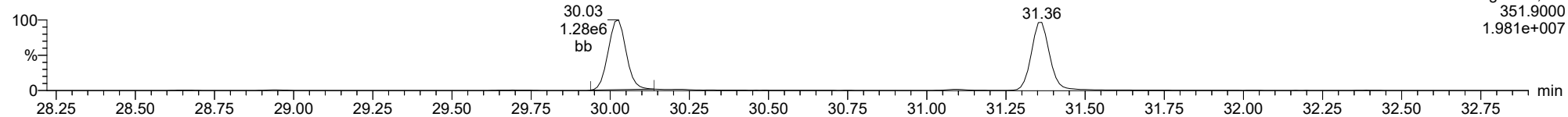
12378-PeCDF

23020108



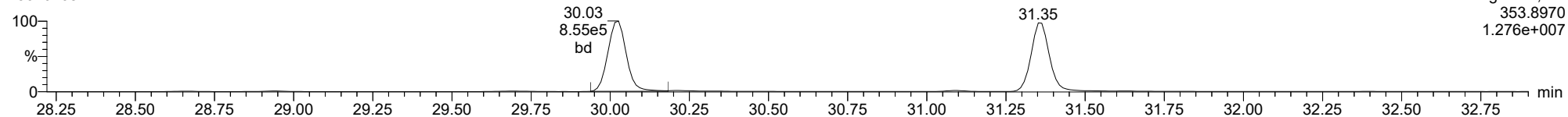
13C-12378-PeCDF

23020108



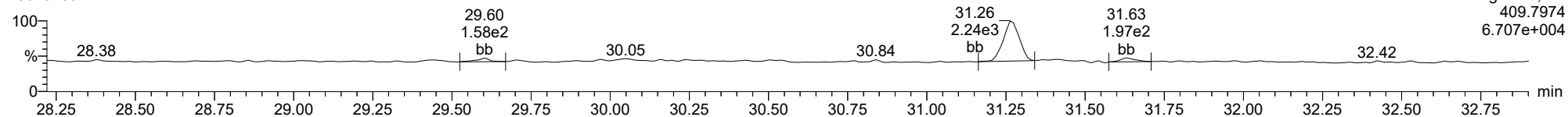
13C-12378-PeCDF

23020108



FUNCTION2 HPCDPE

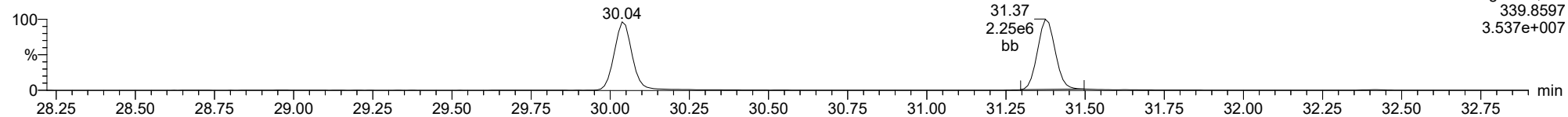
23020108



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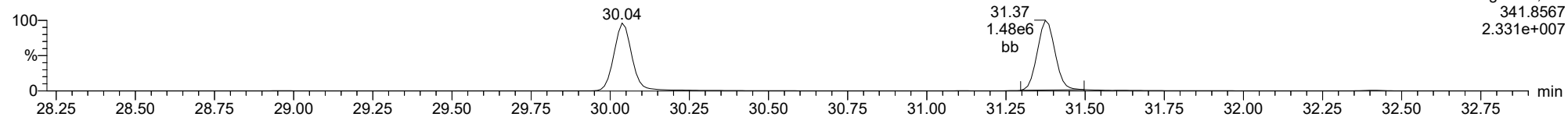
23478-PeCDF

23020108



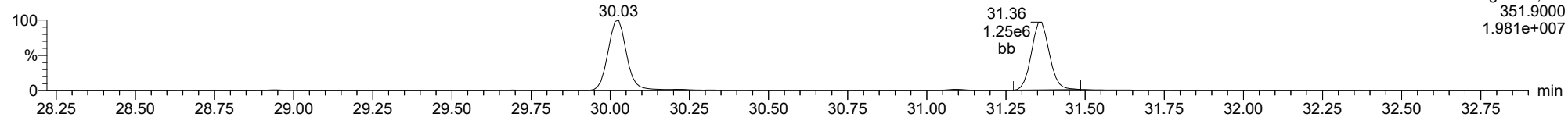
23478-PeCDF

23020108



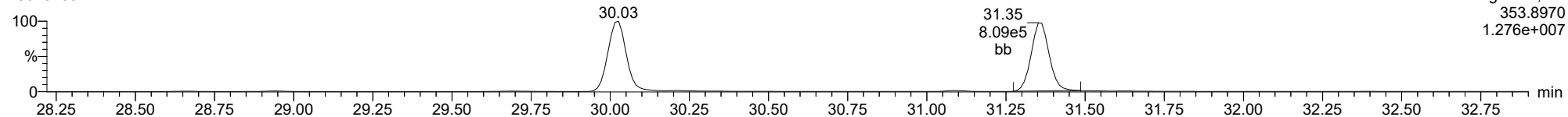
13C-23478-PeCDF

23020108



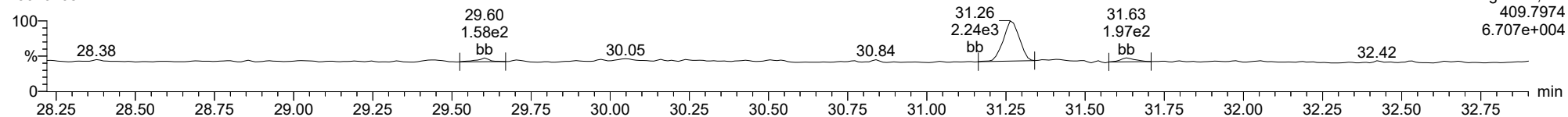
13C-23478-PeCDF

23020108



FUNCTION2 HPCDPE

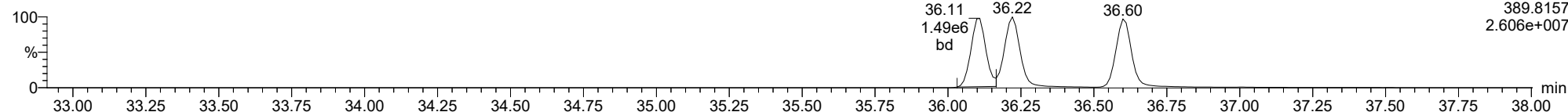
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ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

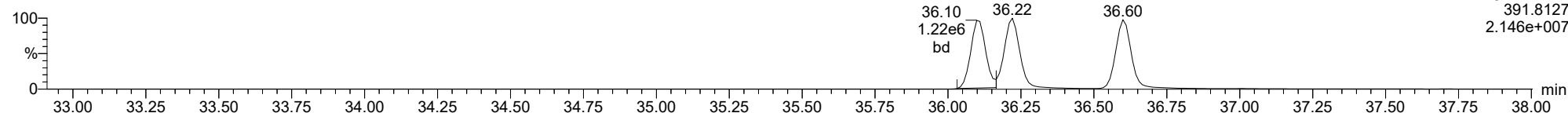
123478-HxCDD

23020108



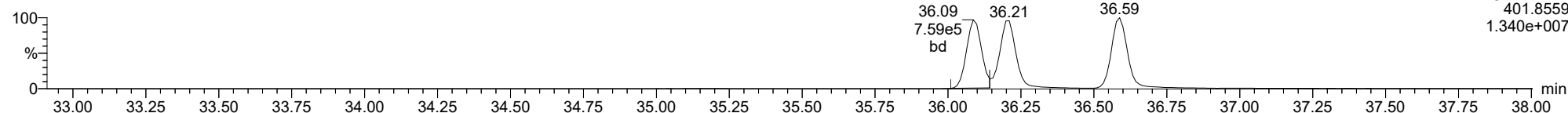
123478-HxCDD

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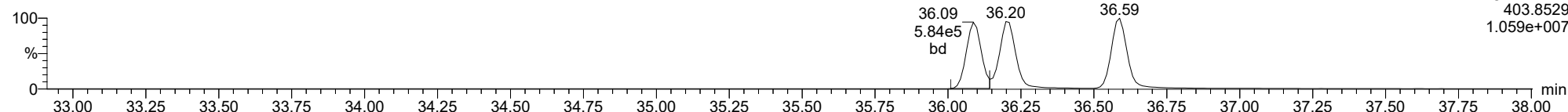
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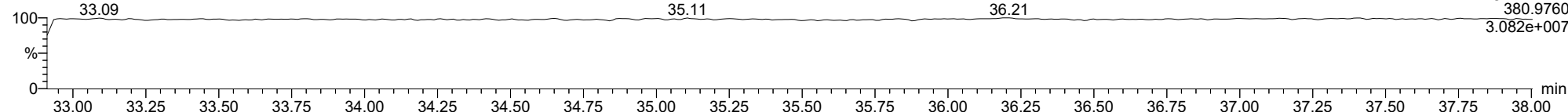
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FUNCTION3 PFK

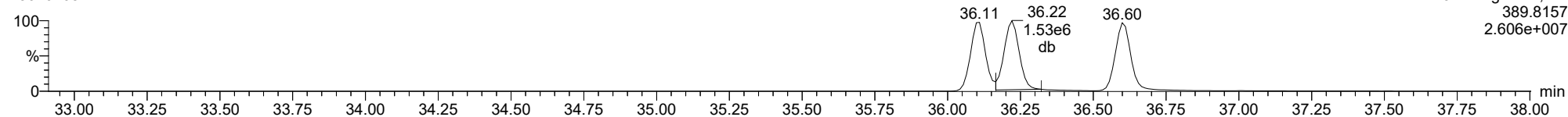
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ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

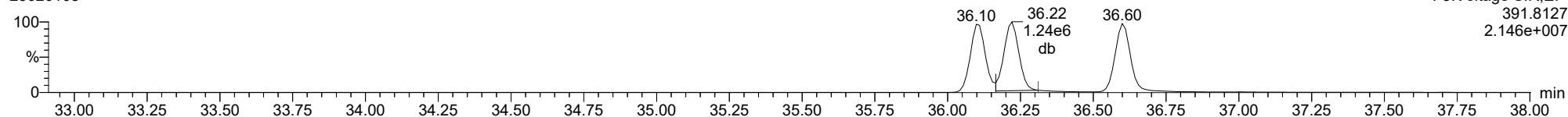
123678-HxCDD

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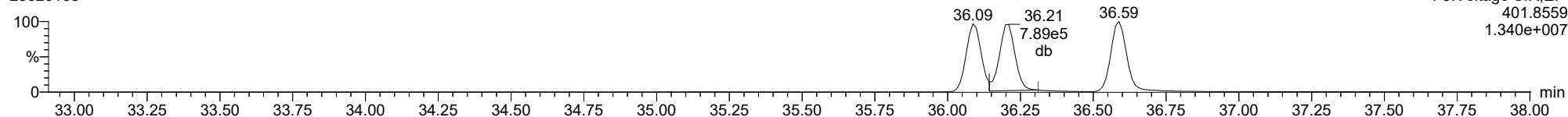
123678-HxCDD

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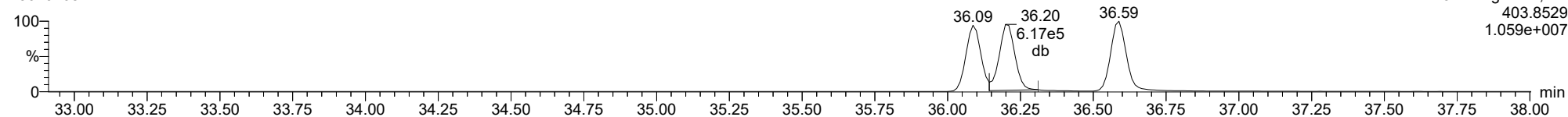
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13C-123678-HxCDD

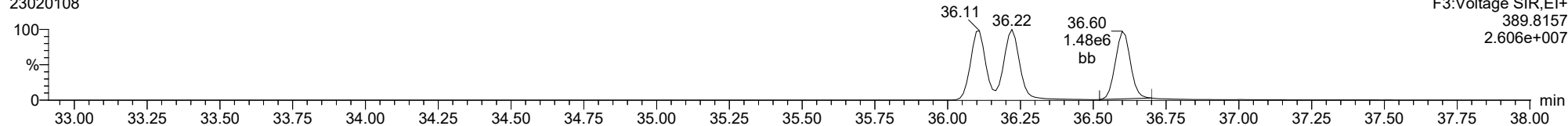
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ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

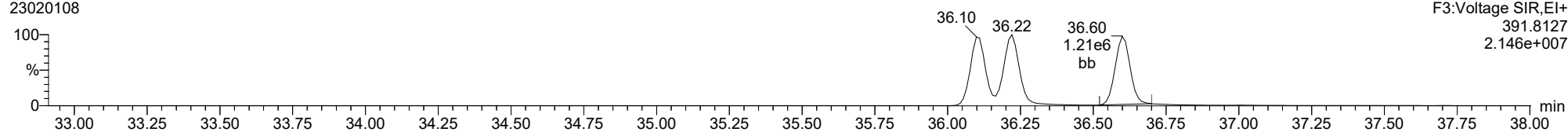
123789-HxCDD

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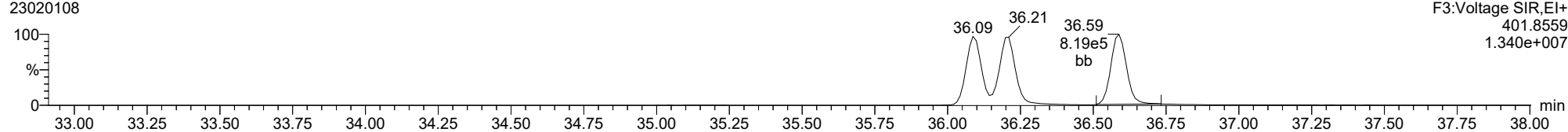
123789-HxCDD

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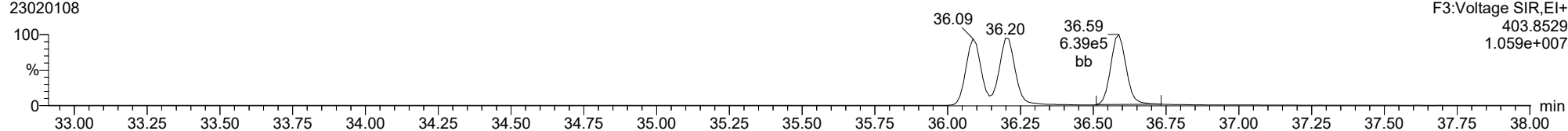
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13C-123789-HxCDD

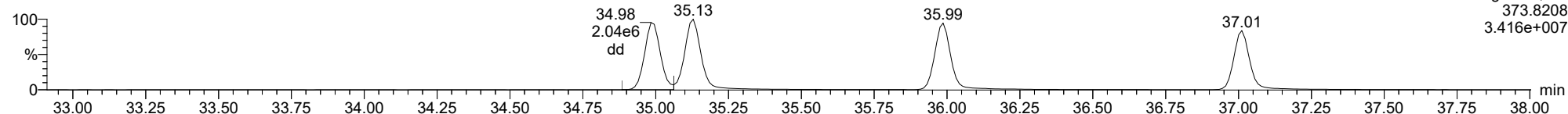
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ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

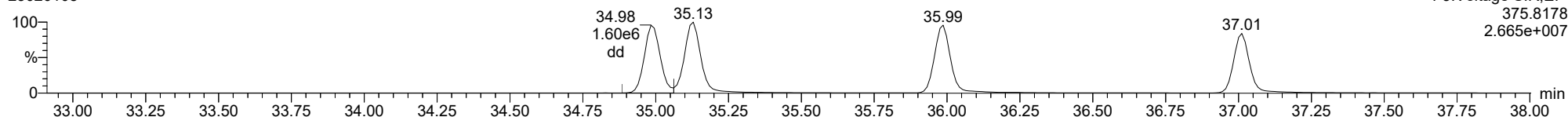
123478-HxCDF

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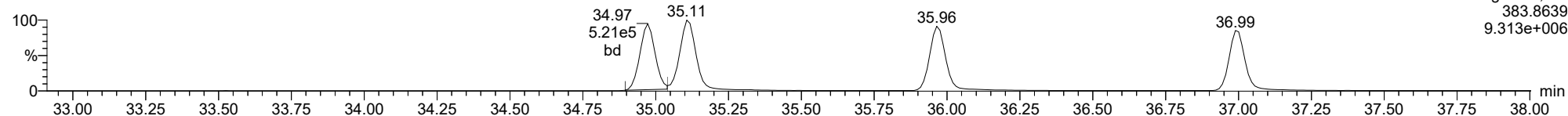
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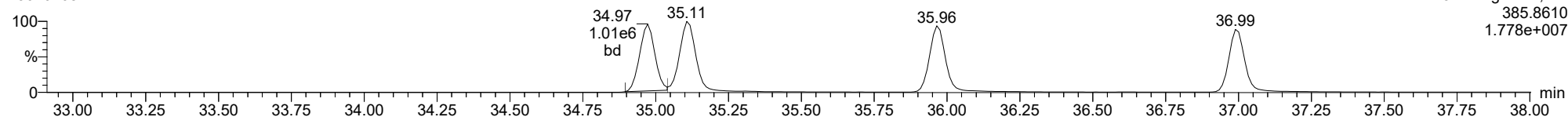
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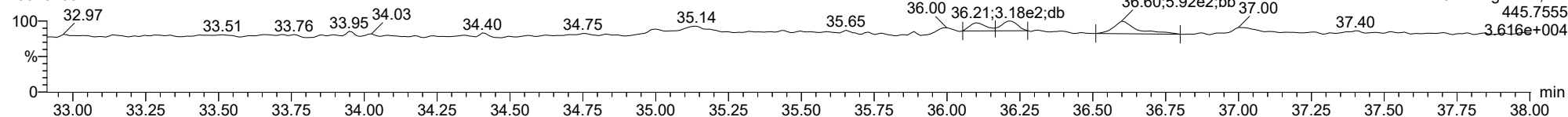
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23020108



FUNCTION3 OCDPE

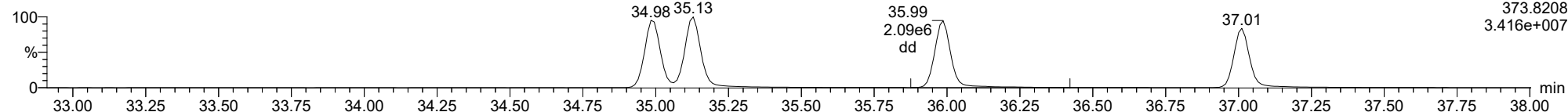
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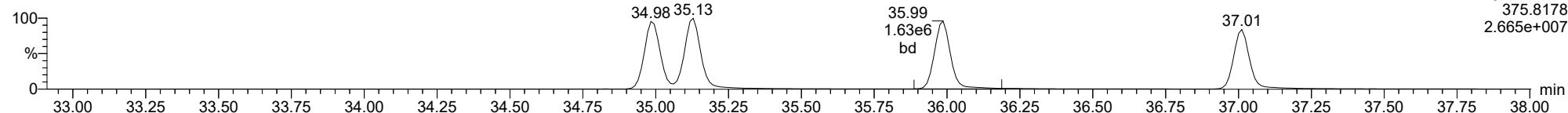
234678-HxCDF

23020108



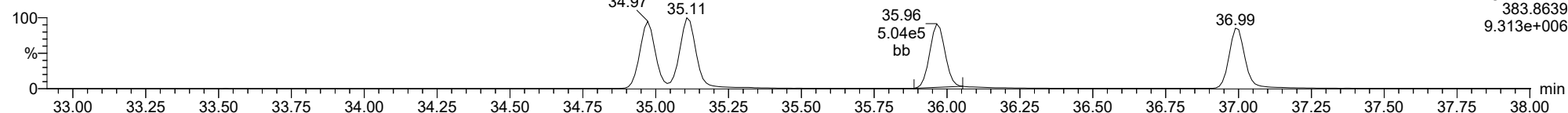
234678-HxCDF

23020108



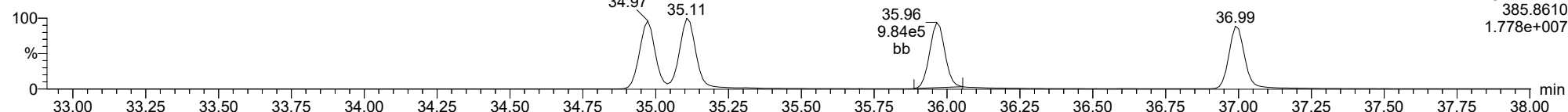
13C-234678-HxCDF

23020108



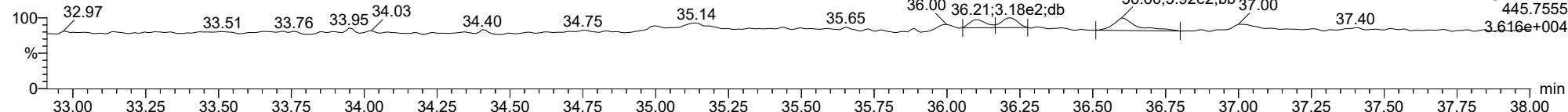
13C-234678-HxCDF

23020108



FUNCTION3 OCDPE

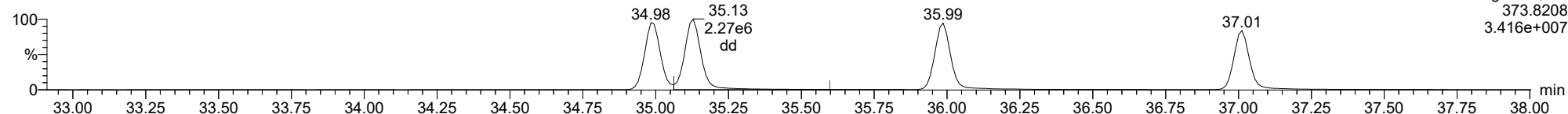
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ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

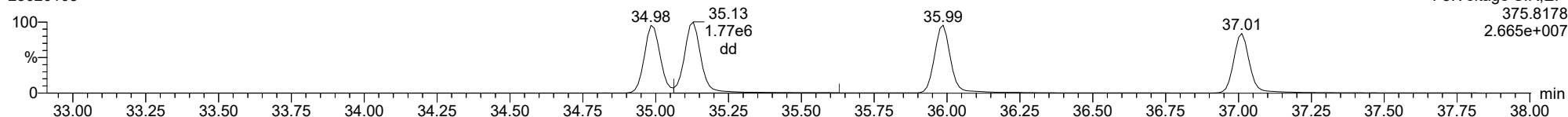
123678-HxCDF

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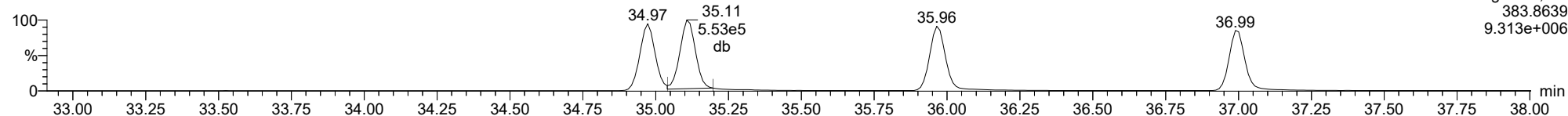
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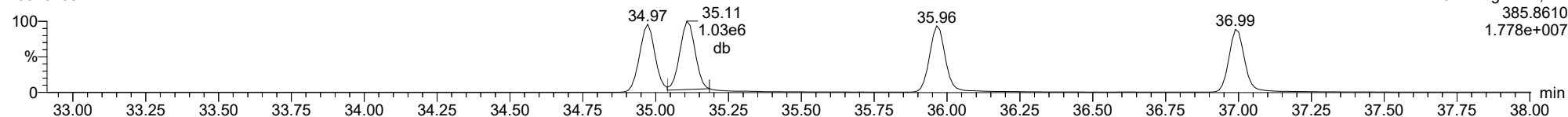
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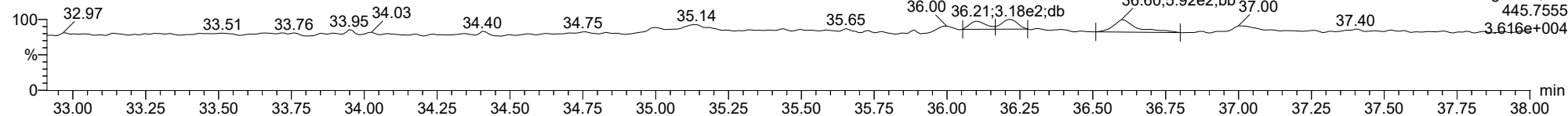
13C-123678-HxCDF

23020108



FUNCTION3 OCDPE

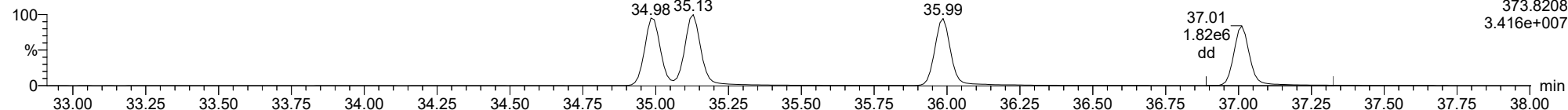
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

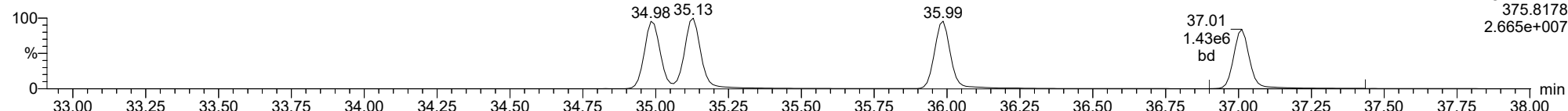
123789-HxCDF

23020108



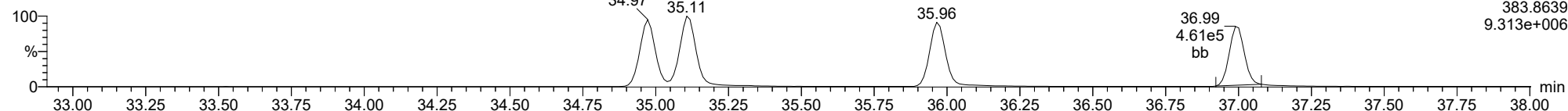
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23020108



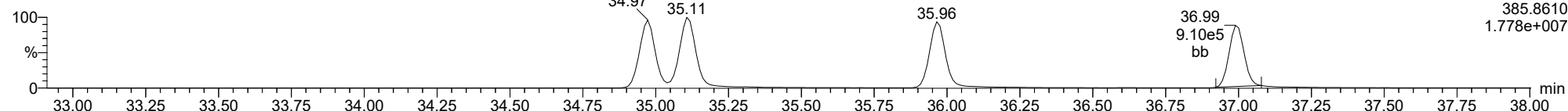
13C-123789-HxCDF

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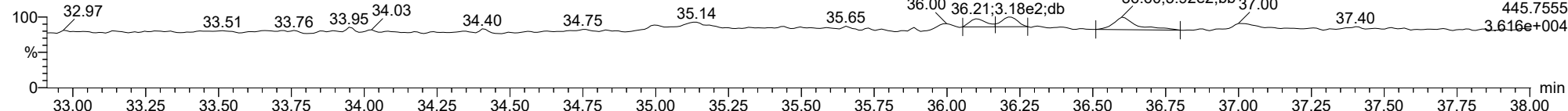
13C-123789-HxCDF

23020108



FUNCTION3 OCDPE

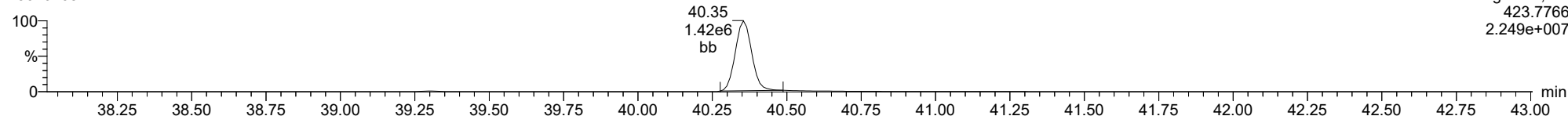
23020108



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1234678-HpCDD

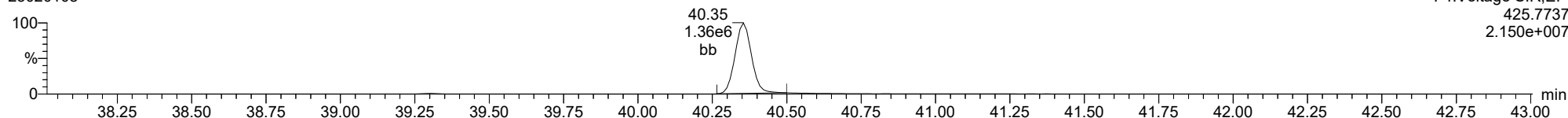
23020108



F4:Voltage SIR,EI+
423.7766
2.249e+007

1234678-HpCDD

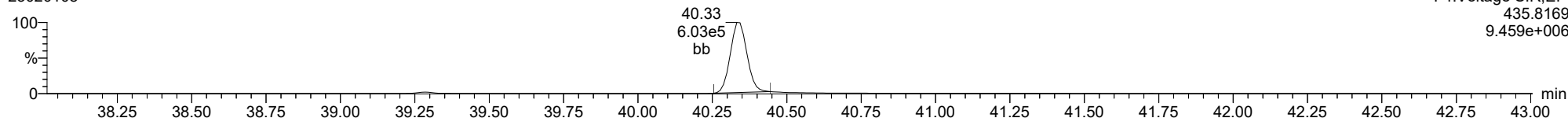
23020108



F4:Voltage SIR,EI+
425.7737
2.150e+007

13C-1234678-HpCDD

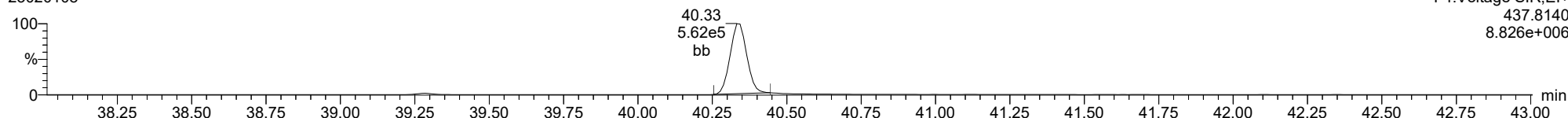
23020108



F4:Voltage SIR,EI+
435.8169
9.459e+006

13C-1234678-HpCDD

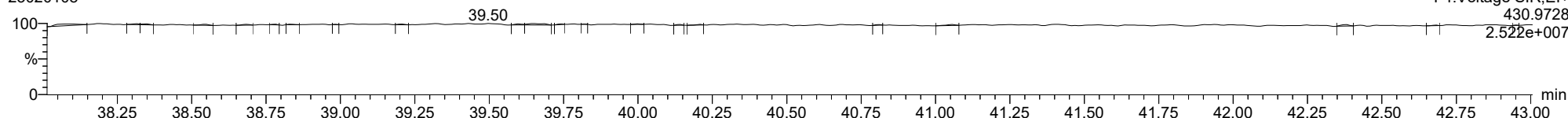
23020108



F4:Voltage SIR,EI+
437.8140
8.826e+006

FUNCTION4 PFK

23020108

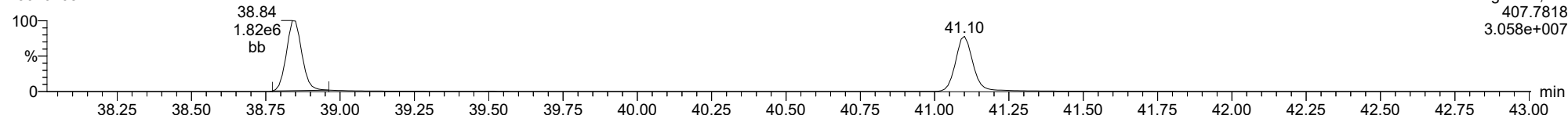


F4:Voltage SIR,EI+
430.9728
2.522e+007

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

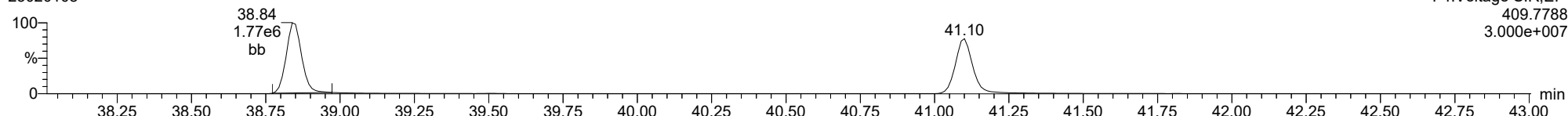
23020108



F4:Voltage SIR,El+
407.7818
3.058e+07

1234678-HpCDF

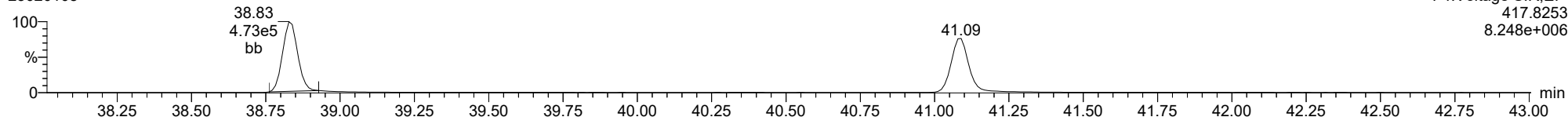
23020108



F4:Voltage SIR,El+
409.7788
3.000e+07

13C-1234678-HpCDF

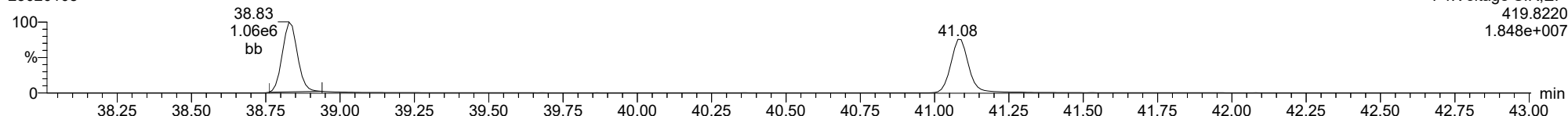
23020108



F4:Voltage SIR,El+
417.8253
8.248e+06

13C-1234678-HpCDF

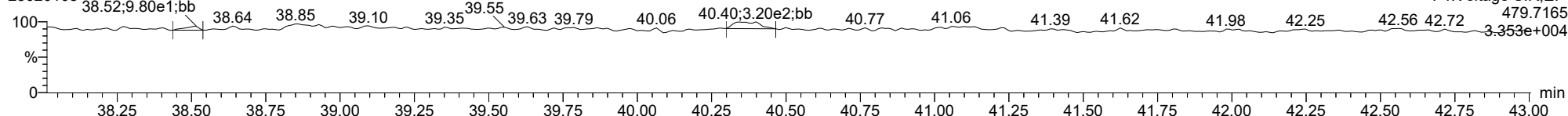
23020108



F4:Voltage SIR,El+
419.8220
1.848e+07

FUNCTION4 NCDPE

23020108

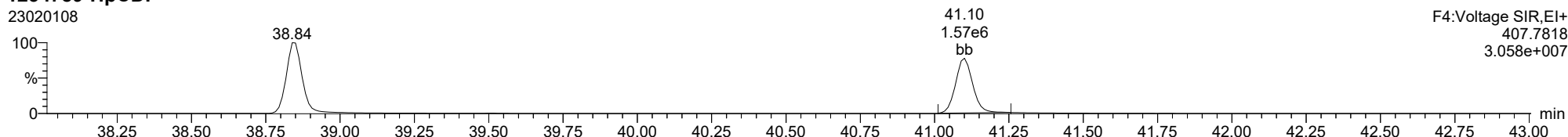


F4:Voltage SIR,El+
479.7165
3.353e+04

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

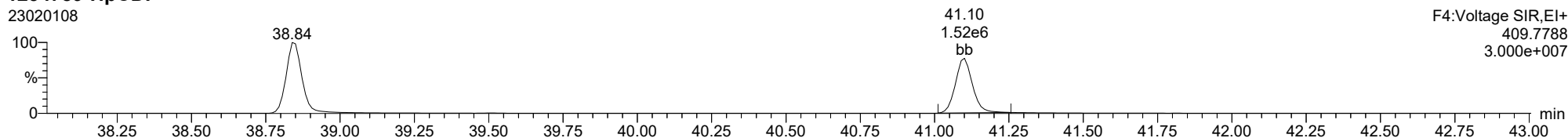
1234789-HpCDF

23020108



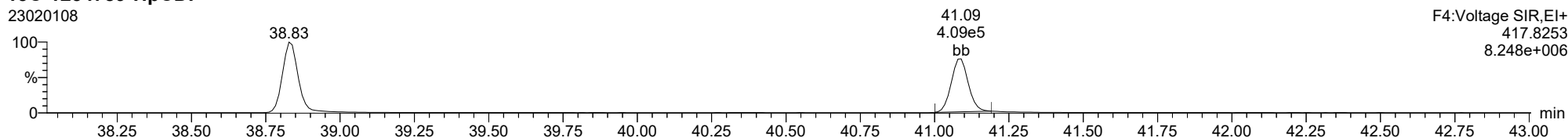
1234789-HpCDF

23020108



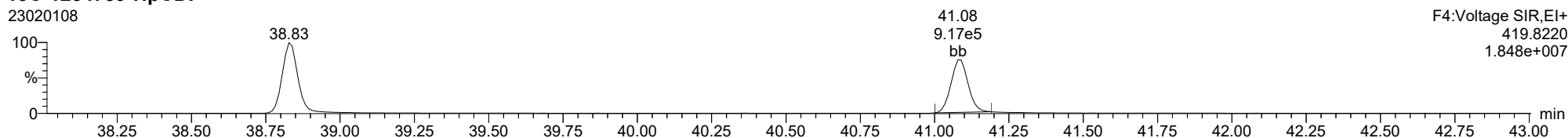
13C-1234789-HpCDF

23020108



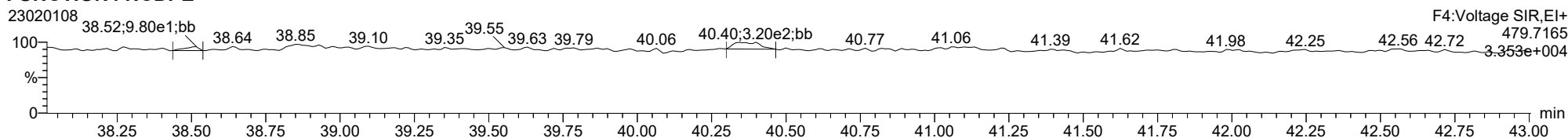
13C-1234789-HpCDF

23020108



FUNCTION4 NCDPE

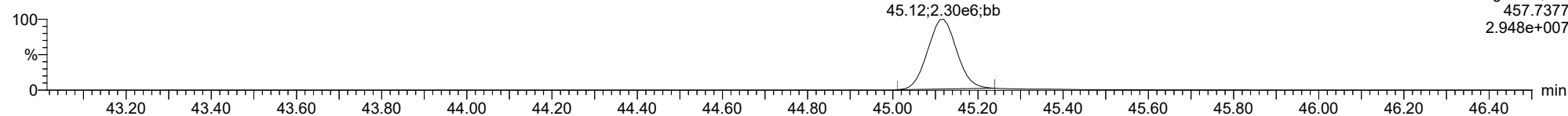
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

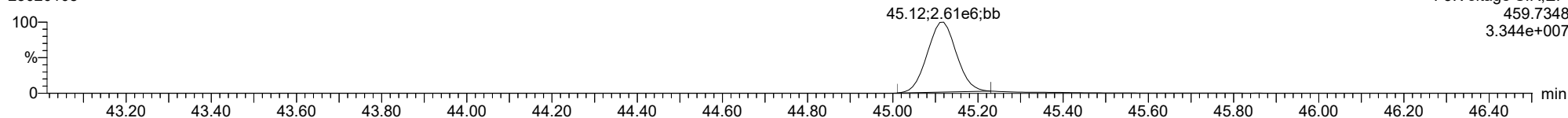
OCDD

23020108



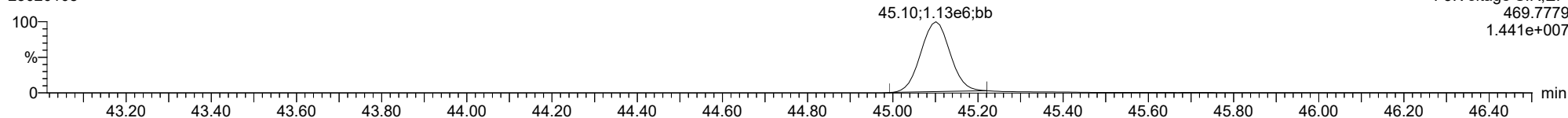
OCDD

23020108



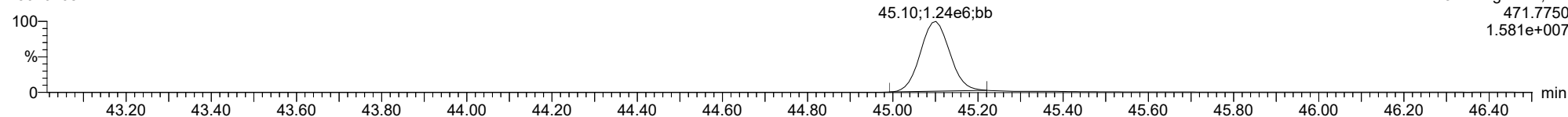
13C-OCDD

23020108



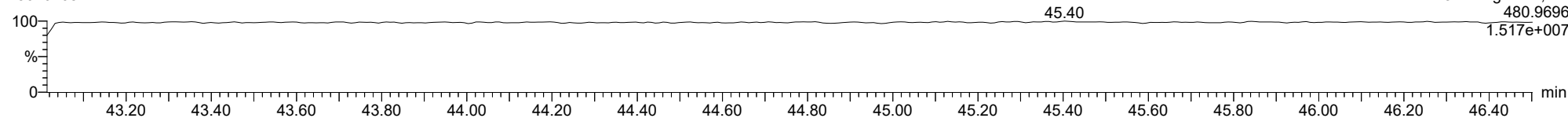
13C-OCDD

23020108



FUNCTION5 PFK

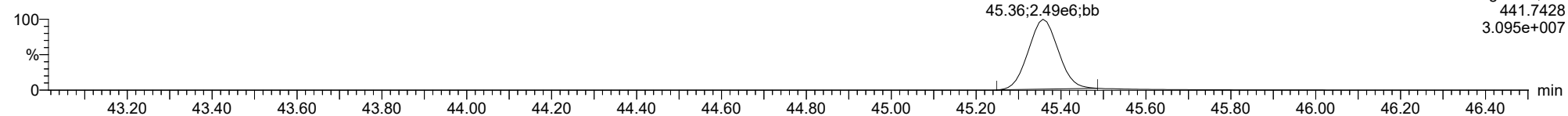
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

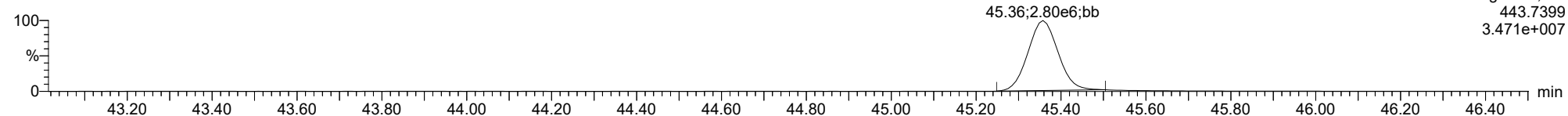
OCDF

23020108



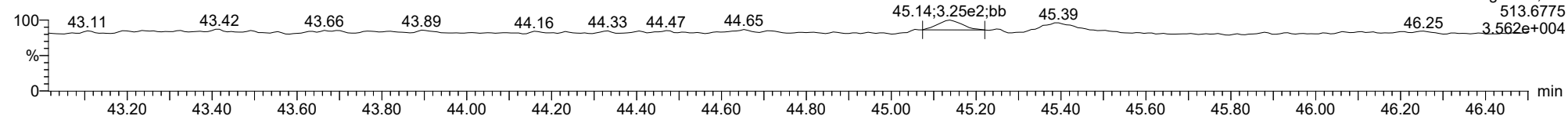
OCDF

23020108



FUNCTION5 DCDPE

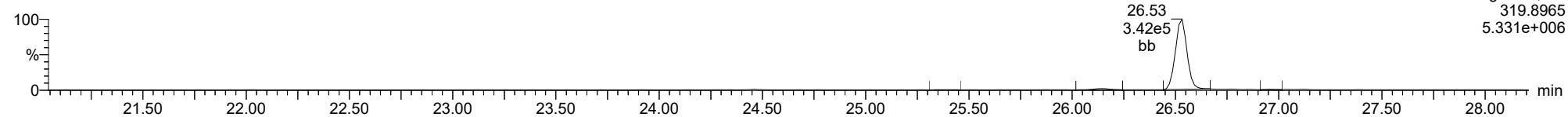
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

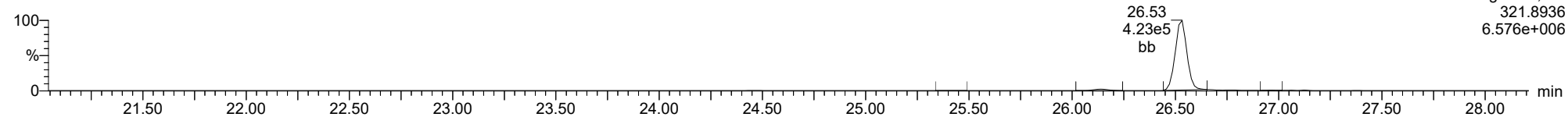
Total-tetradoxins

23020108



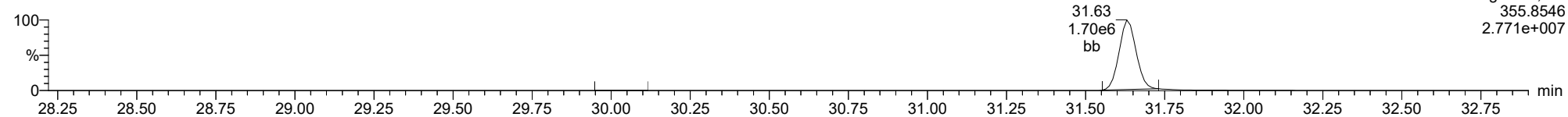
Total-tetradoxins

23020108



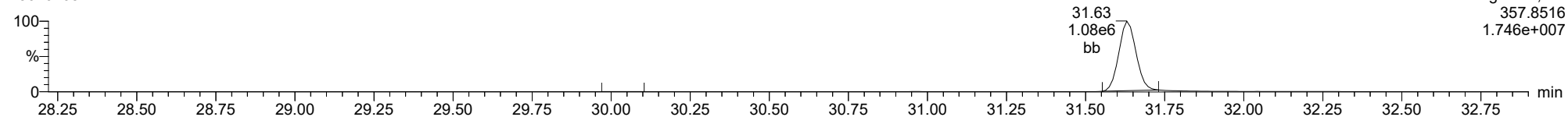
Total-pentadoxins

23020108



Total-pentadoxins

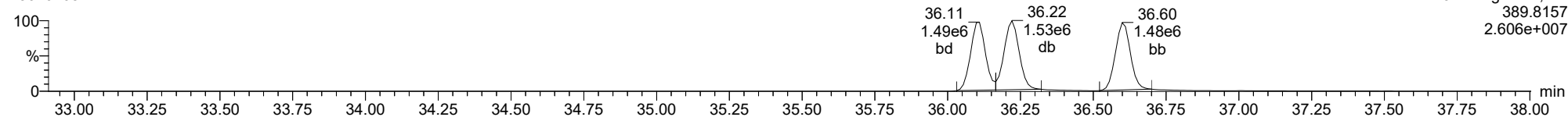
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

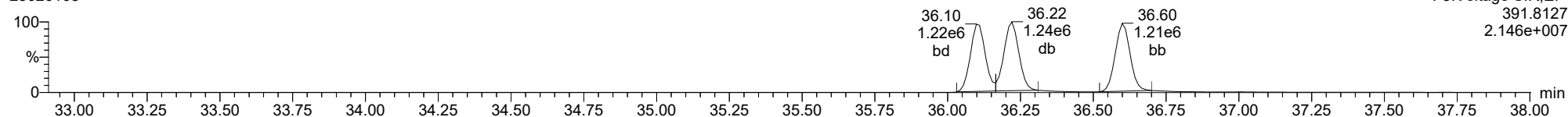
Total-hexadioxins

23020108



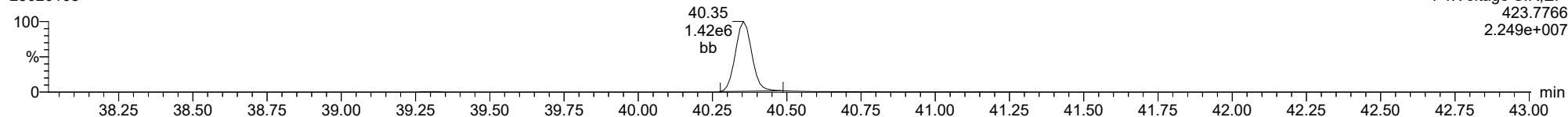
Total-hexadioxins

23020108



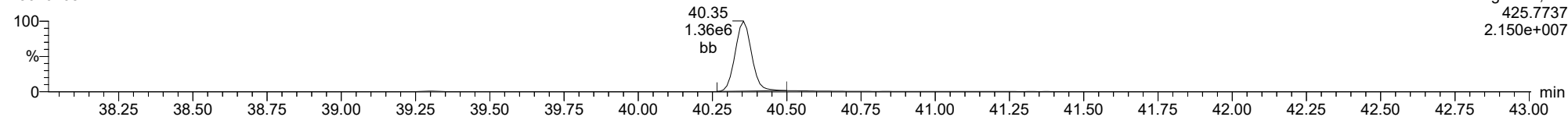
Total-heptadioxins

23020108



Total-heptadioxins

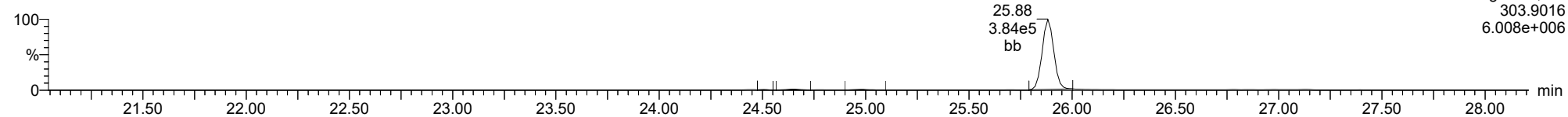
23020108



ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans

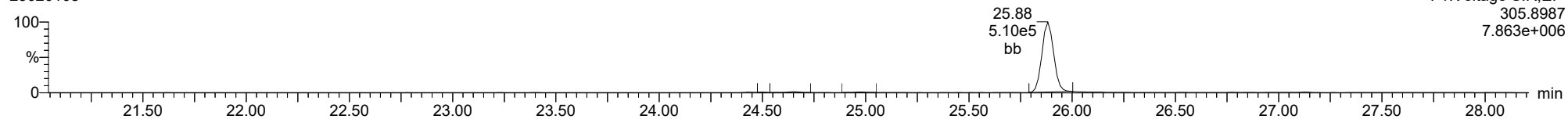
23020108



F1:Voltage SIR,EI+
303.9016
6.008e+006

Total-tetrafurans

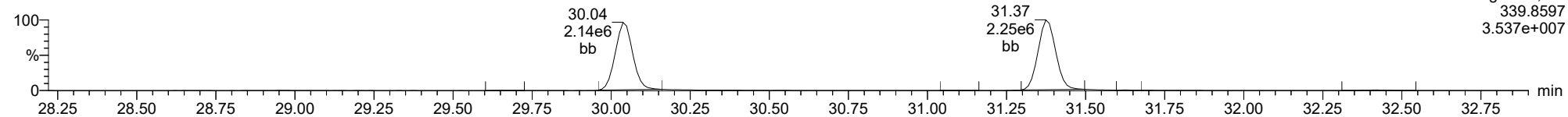
23020108



F1:Voltage SIR,EI+
305.8987
7.863e+006

Total-pentafurans

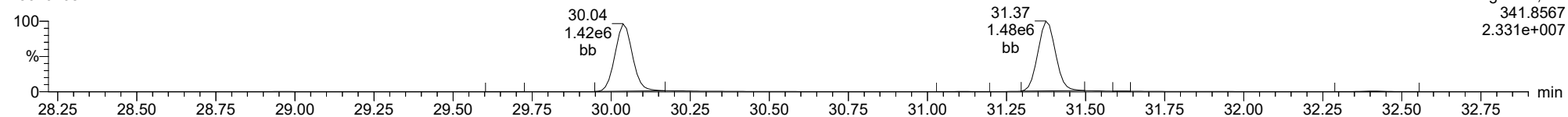
23020108



F2:Voltage SIR,EI+
339.8597
3.537e+007

Total-pentafurans

23020108

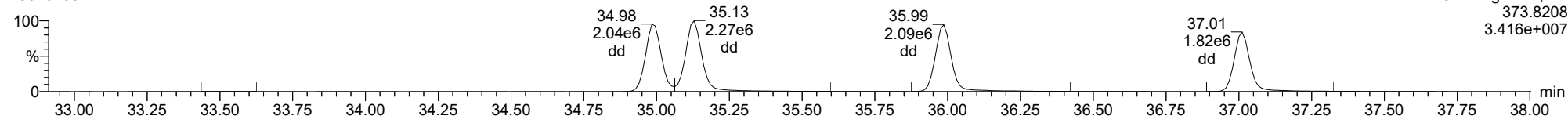


F2:Voltage SIR,EI+
341.8567
2.331e+007

ID: CS4CR, Name: 23020108, Date: 01-Feb-2023, Time: 18:45:20, Conditions: AUTOSPEC01, User: pk

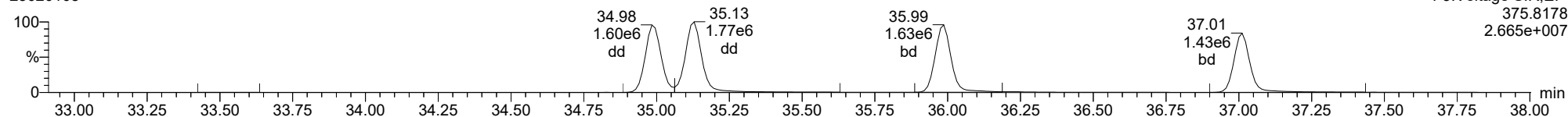
Total-hexafurans

23020108



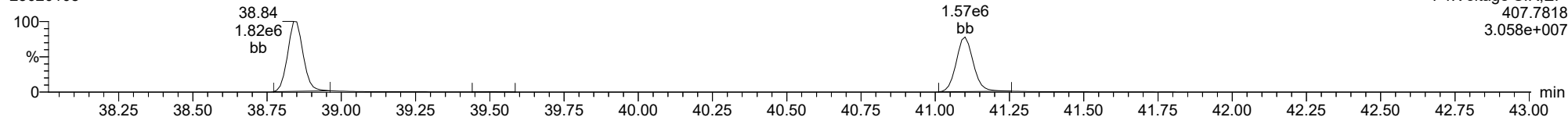
Total-hexafurans

23020108



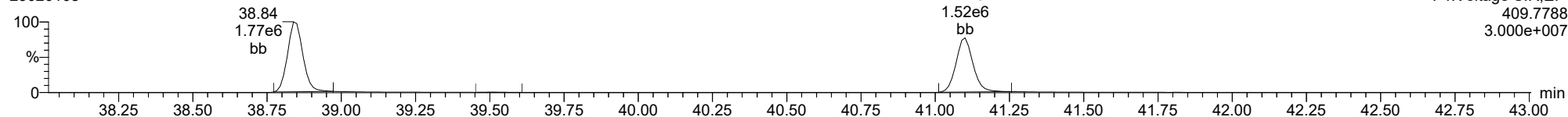
Total-heptafurans

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
 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

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

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**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

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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

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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

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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

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

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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-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...

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	21.86	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		

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**PFK1**

	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 V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230201\CIH.qld
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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	34.39	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

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**PFK3**

	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		

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 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

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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	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

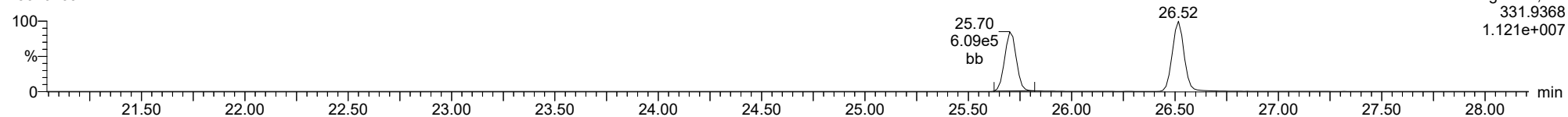
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.38	2.060e3					22.7	YES		db		0.000
2	FUNCTION5 DCDPE	45.15	2.089e3					25.1	YES		bd		0.000
3	FUNCTION5 DCDPE	44.92	7.340e1					3.7	YES		bb		0.000

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

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13C-1234-TCDD

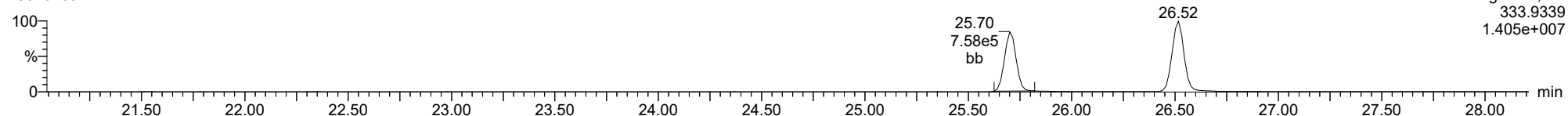
23020109



F1:Voltage SIR,El+
331.9368
1.121e+007

13C-1234-TCDD

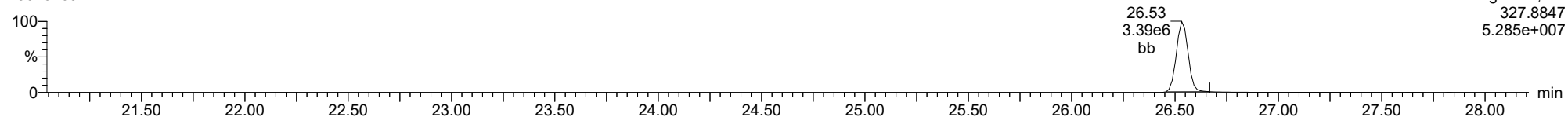
23020109



F1:Voltage SIR,El+
333.9339
1.405e+007

37CL-2378-TCDD

23020109

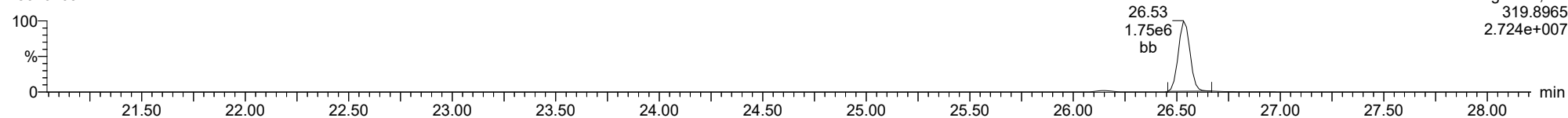


F1:Voltage SIR,El+
327.8847
5.285e+007

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

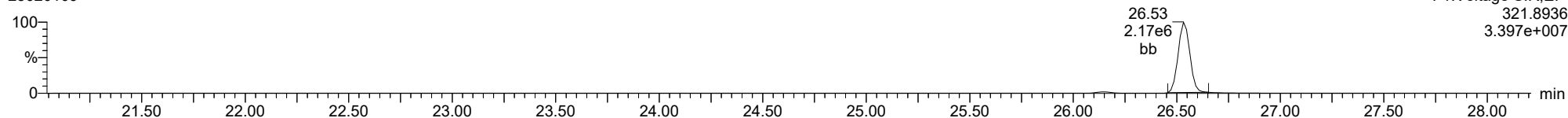
2378-TCDD

23020109



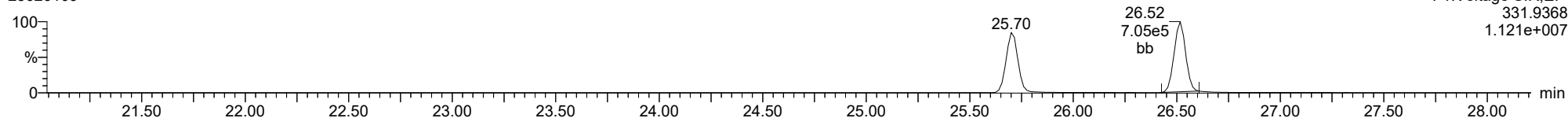
2378-TCDD

23020109



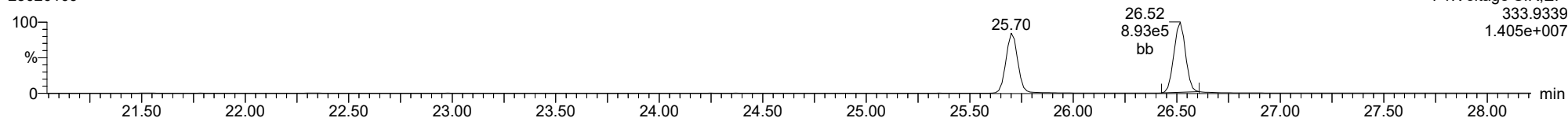
13C-2378-TCDD

23020109



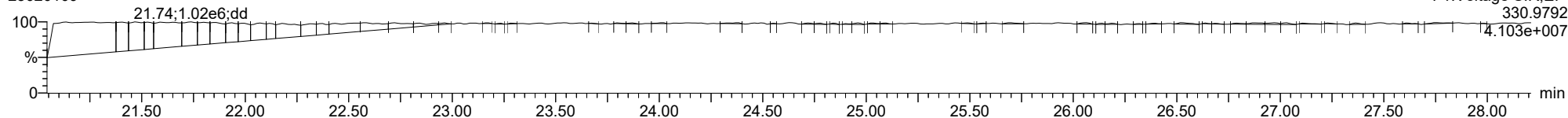
13C-2378-TCDD

23020109



FUNCTION1 PFK

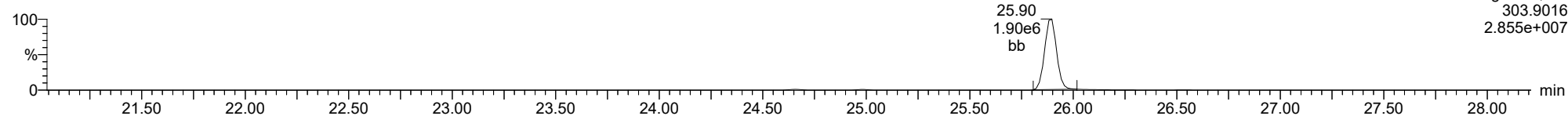
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

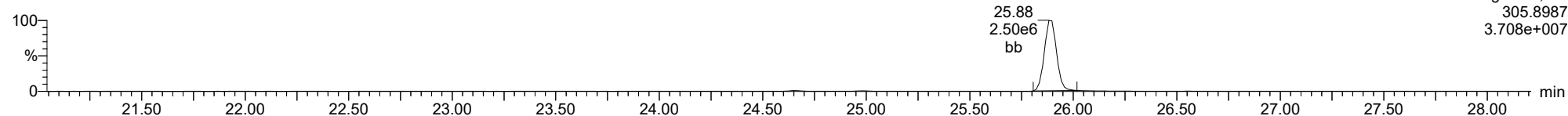
2378-TCDF

23020109



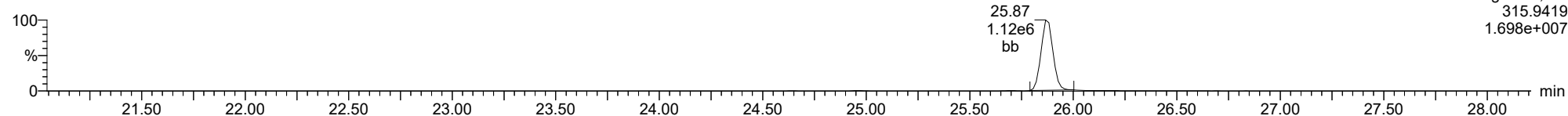
2378-TCDF

23020109



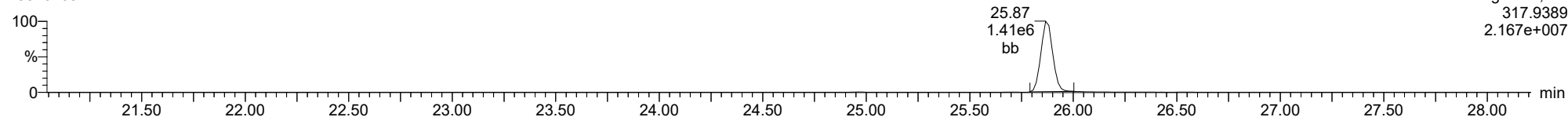
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23020109



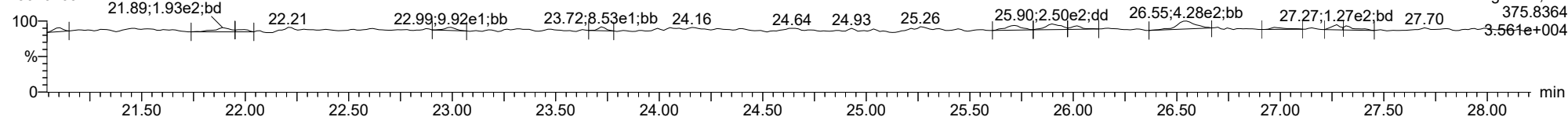
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23020109



FUNCTION1 HXCDFE

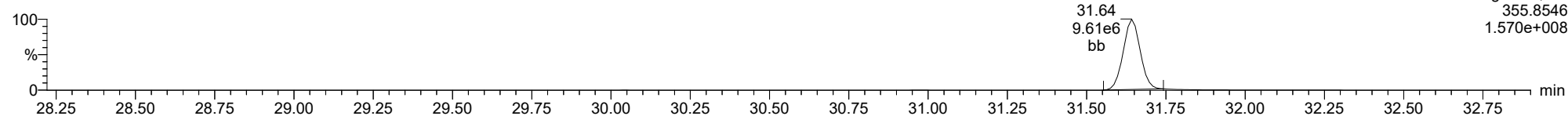
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

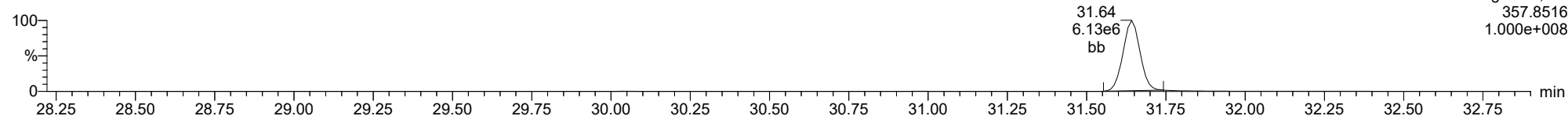
12378-PeCDD

23020109



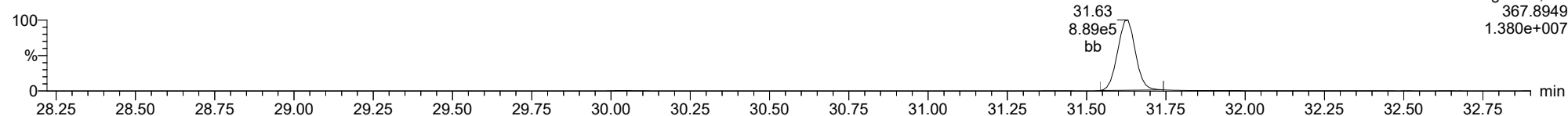
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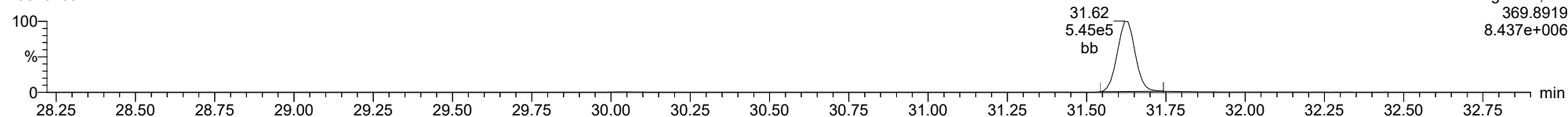
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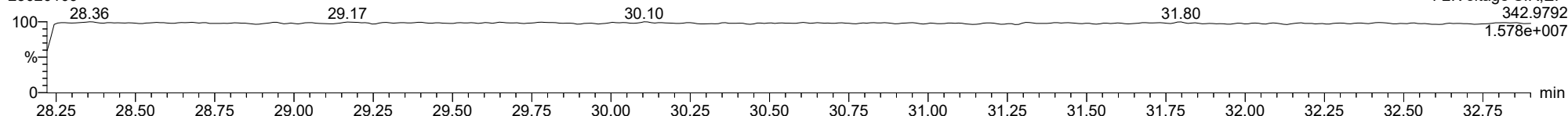
13C-12378-PeCDD

23020109



FUNCTION2 PFK

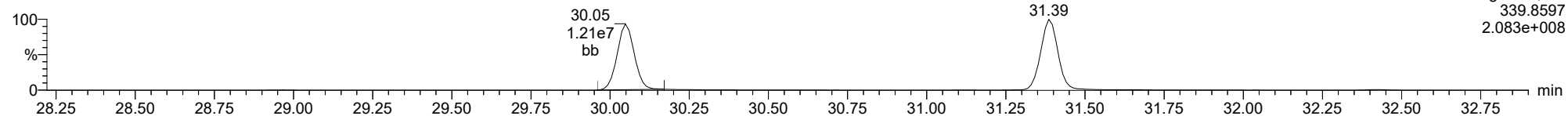
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

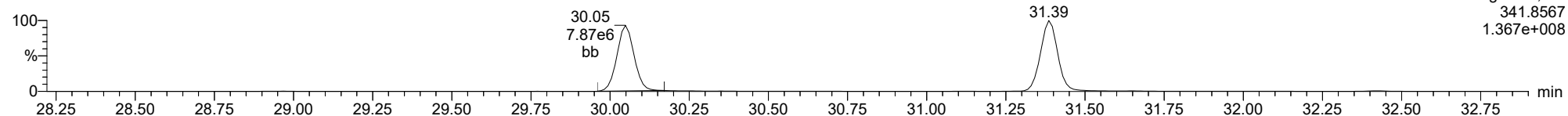
12378-PeCDF

23020109



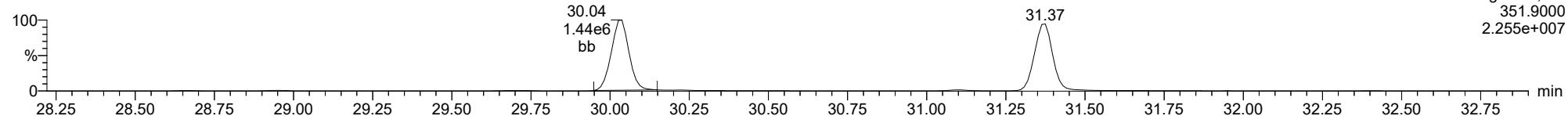
12378-PeCDF

23020109



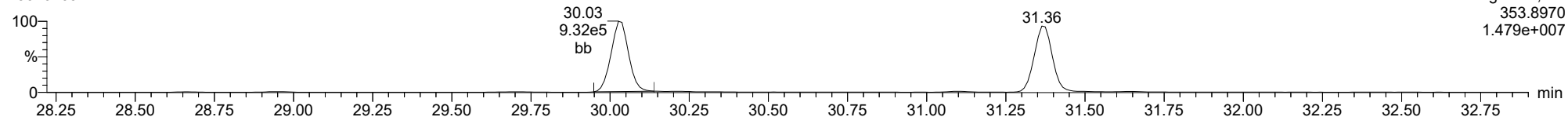
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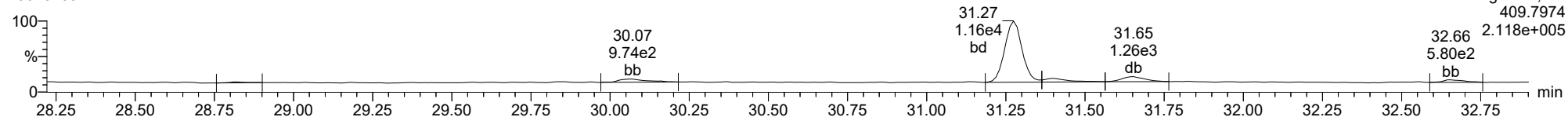
13C-12378-PeCDF

23020109



FUNCTION2 HPCDPE

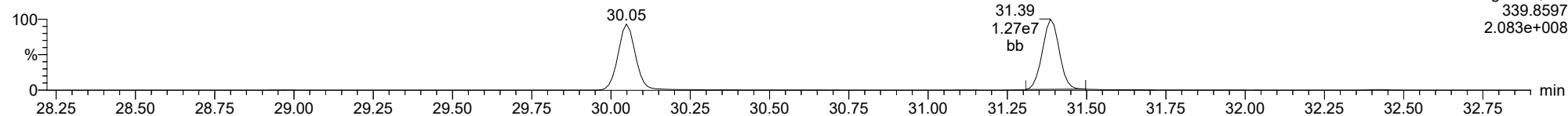
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

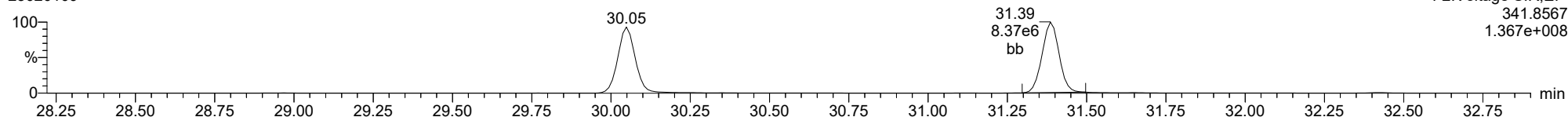
23478-PeCDF

23020109



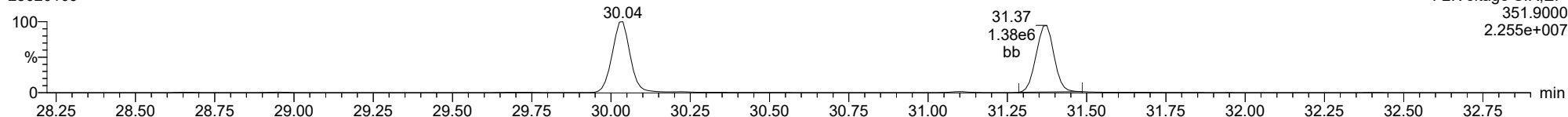
23478-PeCDF

23020109



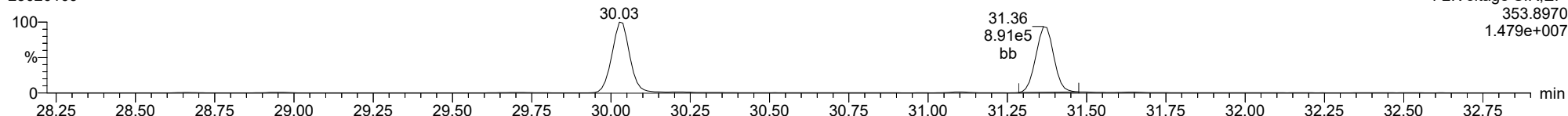
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23020109



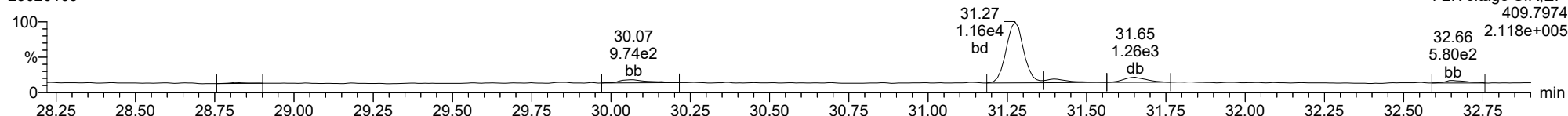
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23020109



FUNCTION2 HPCDPE

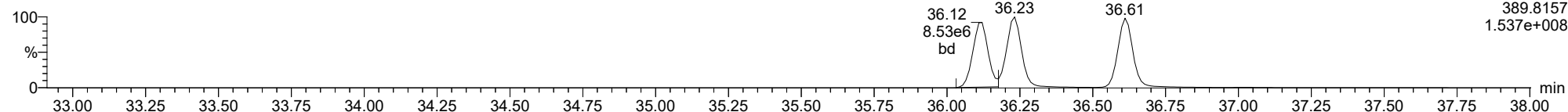
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

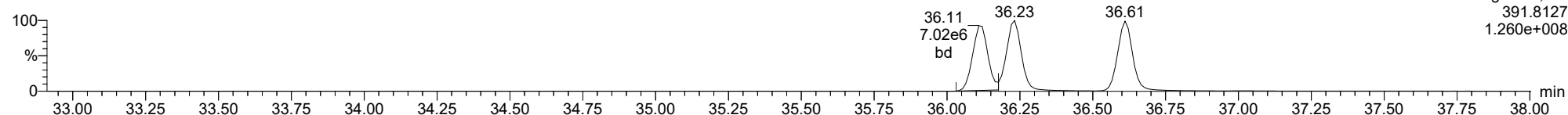
123478-HxCDD

23020109



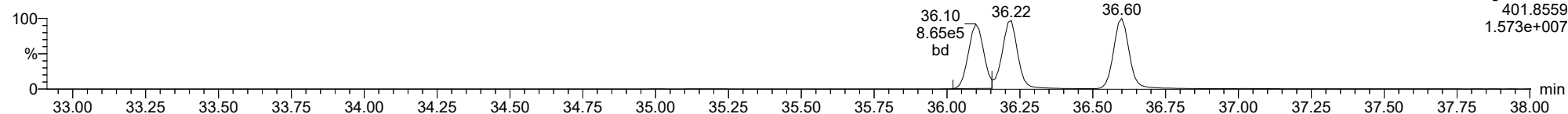
123478-HxCDD

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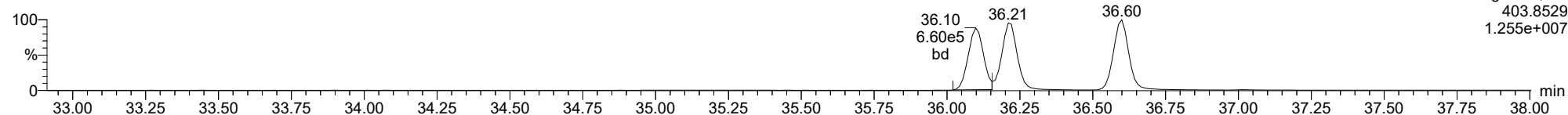
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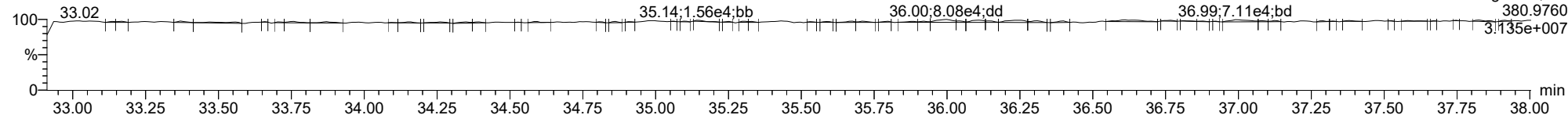
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23020109



FUNCTION3 PFK

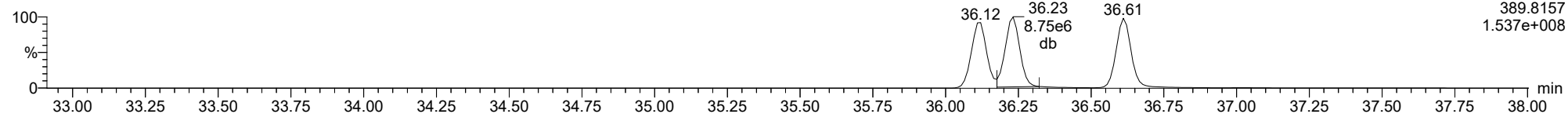
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

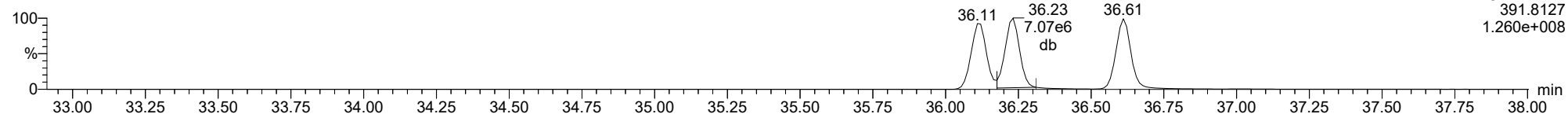
123678-HxCDD

23020109



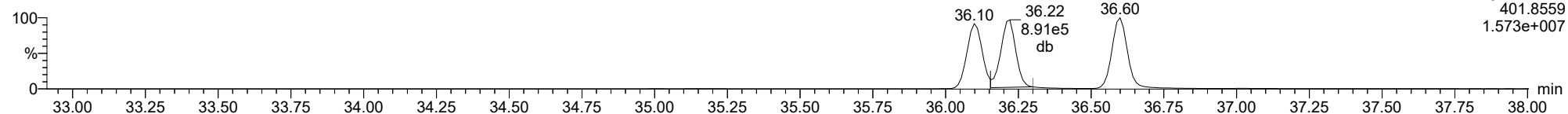
123678-HxCDD

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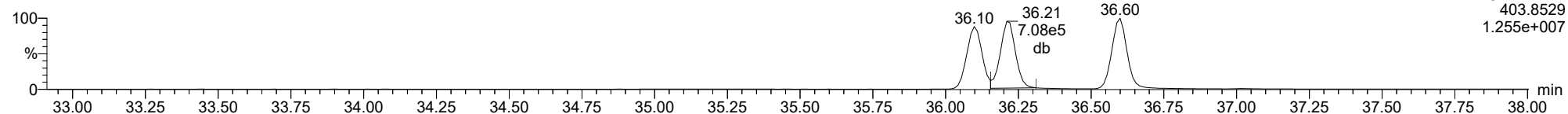
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13C-123678-HxCDD

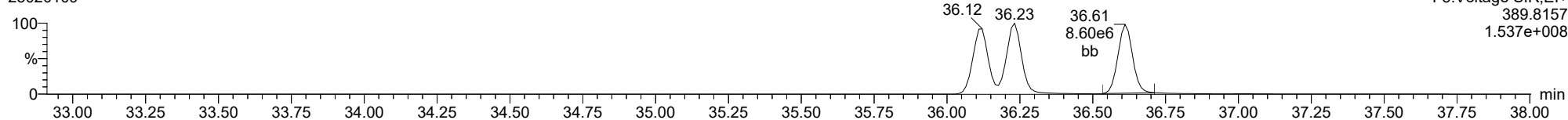
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

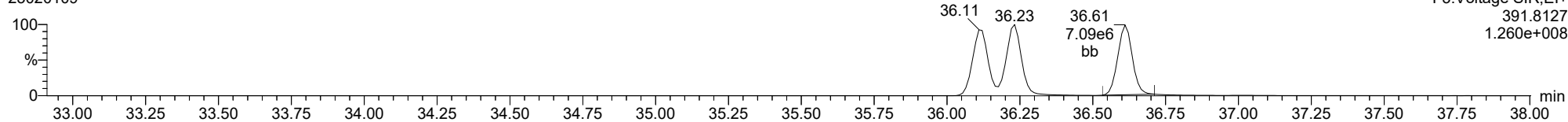
123789-HxCDD

23020109



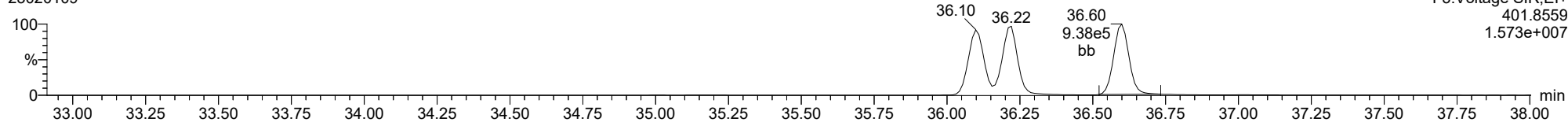
123789-HxCDD

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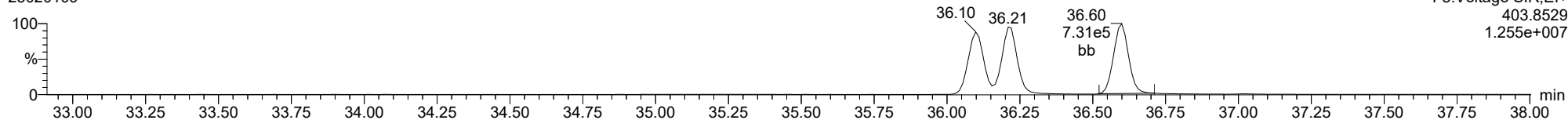
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13C-123789-HxCDD

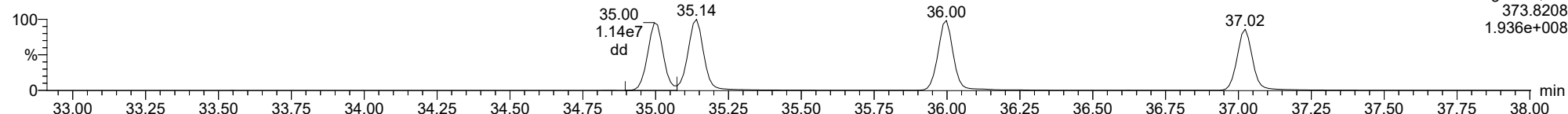
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

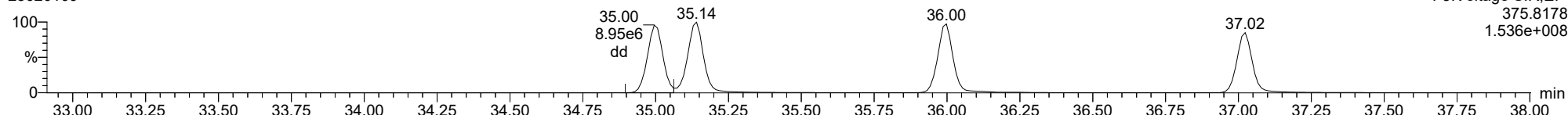
123478-HxCDF

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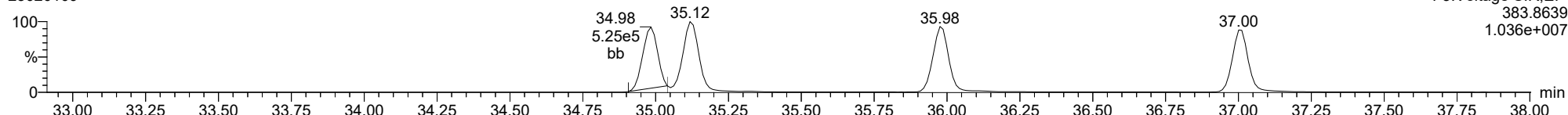
123478-HxCDF

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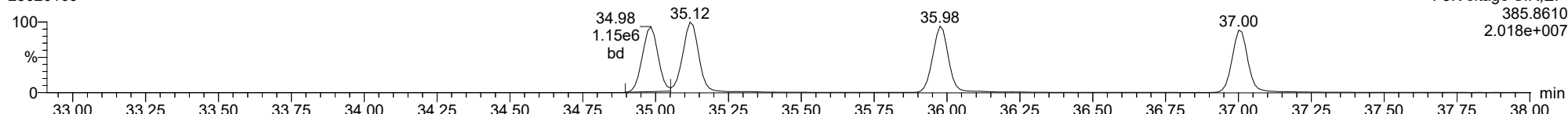
13C-123478-HxCDF

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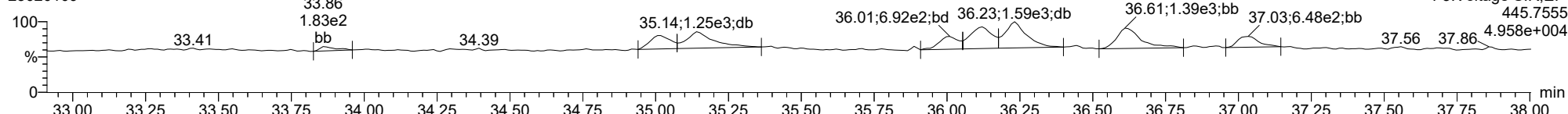
13C-123478-HxCDF

23020109



FUNCTION3 OCDPE

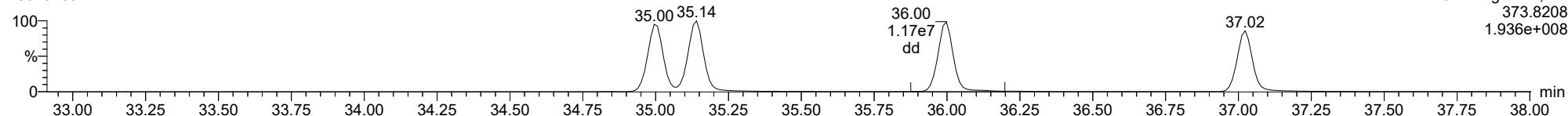
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

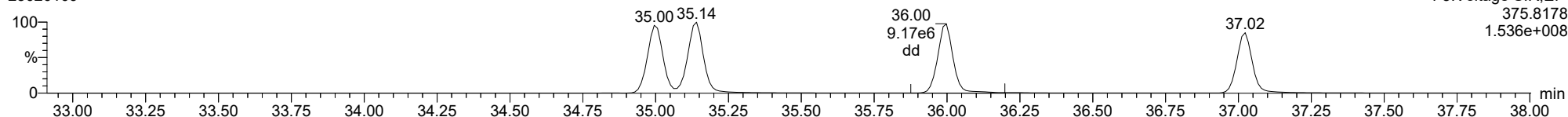
234678-HxCDF

23020109



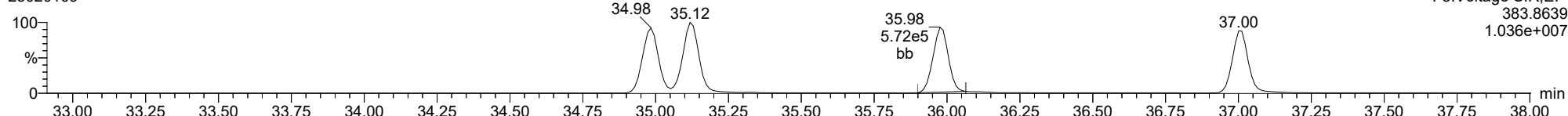
234678-HxCDF

23020109



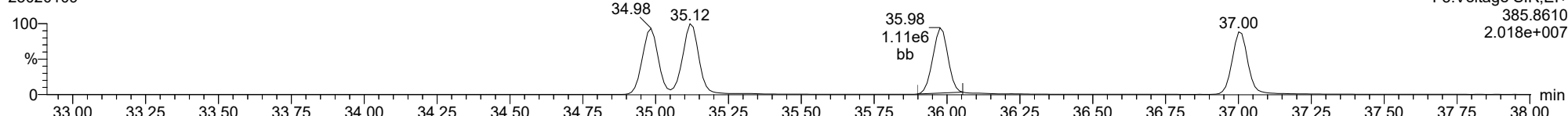
13C-234678-HxCDF

23020109



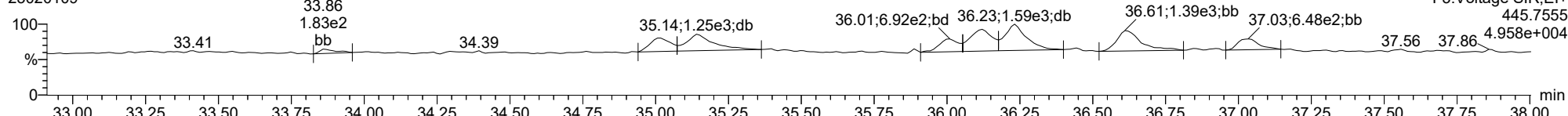
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23020109



FUNCTION3 OCDPE

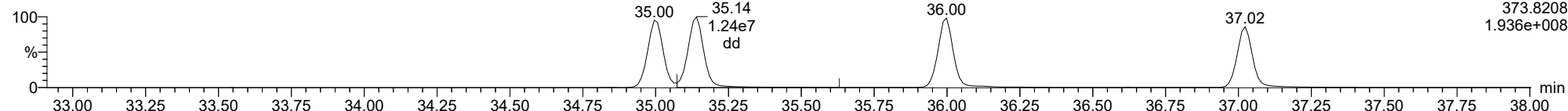
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

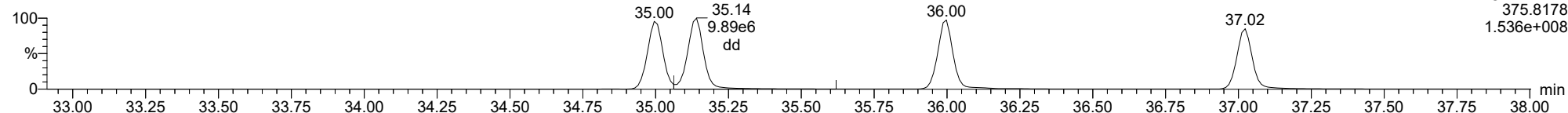
123678-HxCDF

23020109



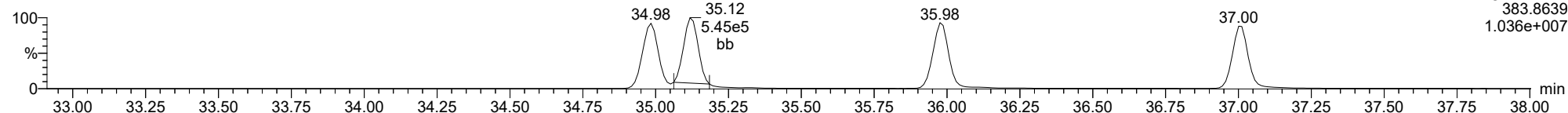
123678-HxCDF

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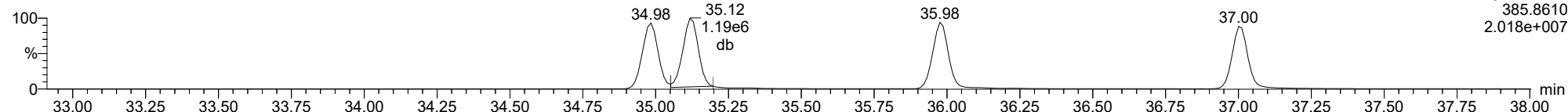
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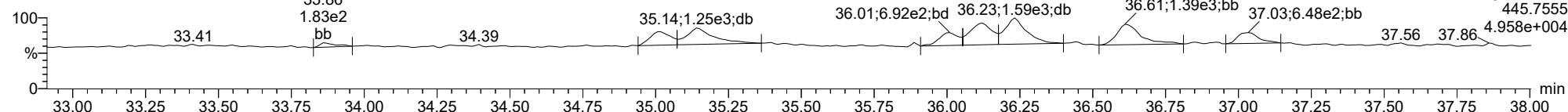
13C-123678-HxCDF

23020109



FUNCTION3 OCDPE

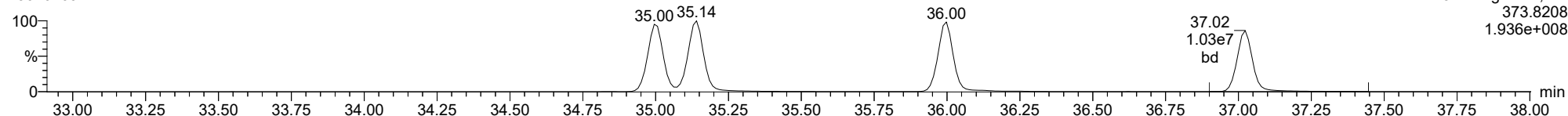
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

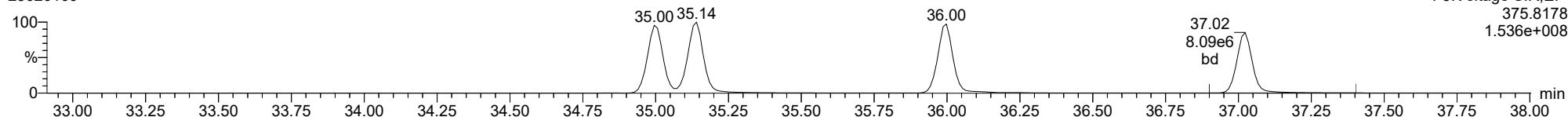
123789-HxCDF

23020109



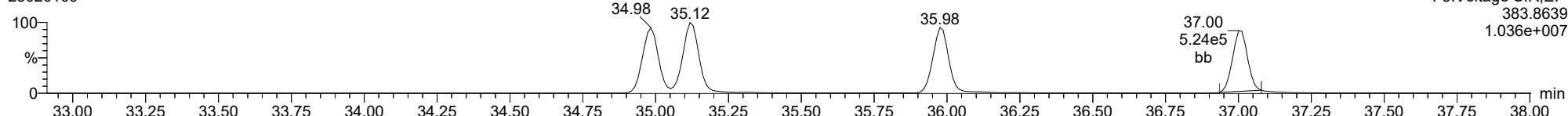
123789-HxCDF

23020109



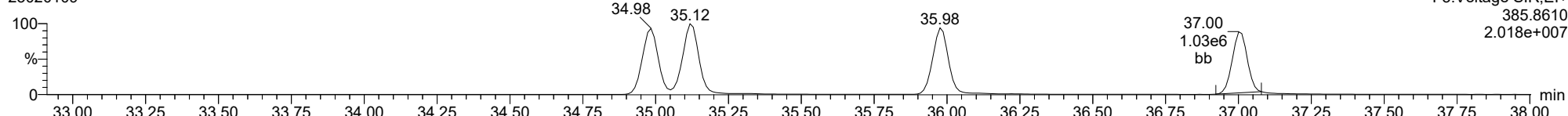
13C-123789-HxCDF

23020109



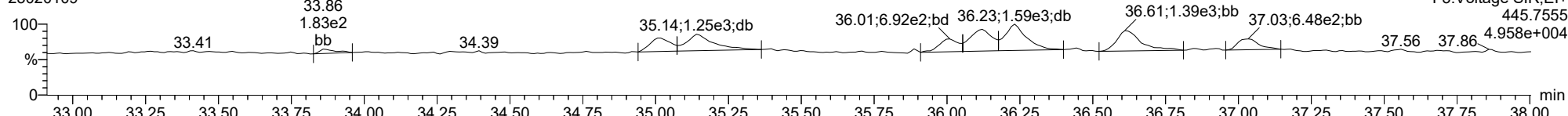
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23020109



FUNCTION3 OCDPE

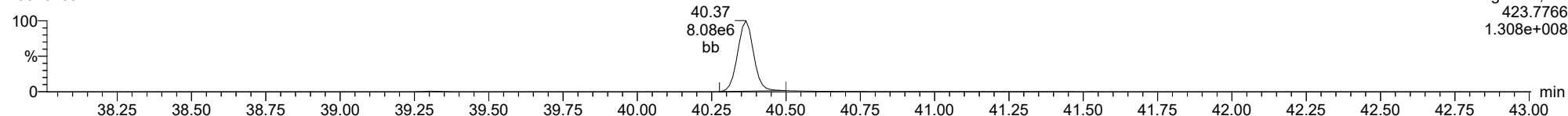
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

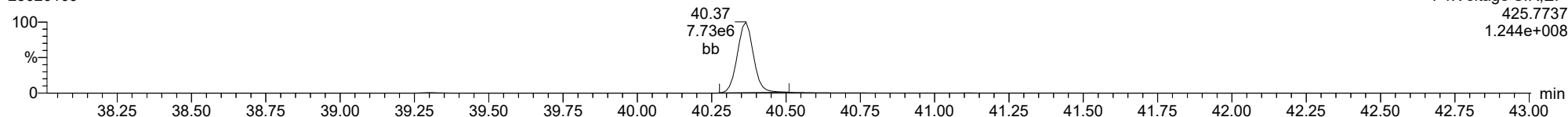
1234678-HpCDD

23020109



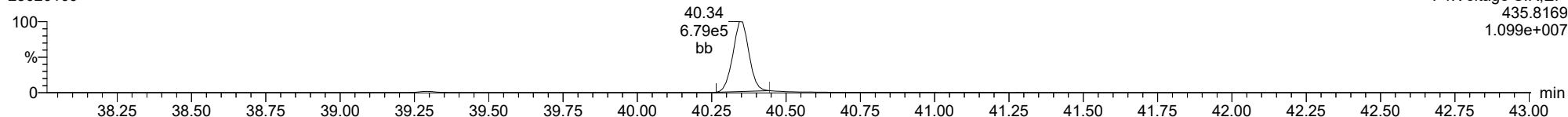
1234678-HpCDD

23020109



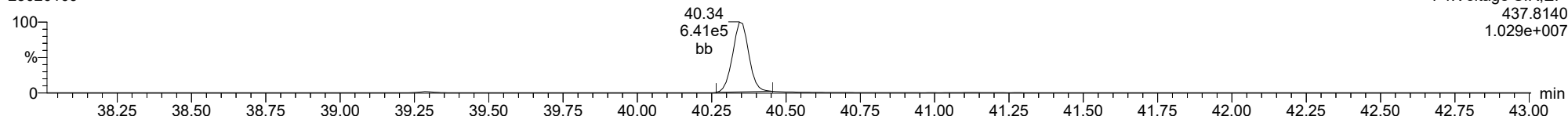
13C-1234678-HpCDD

23020109



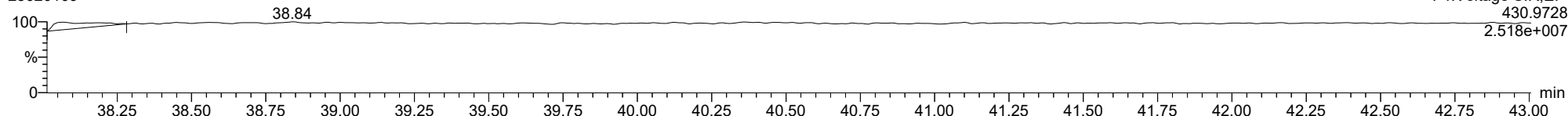
13C-1234678-HpCDD

23020109



FUNCTION4 PFK

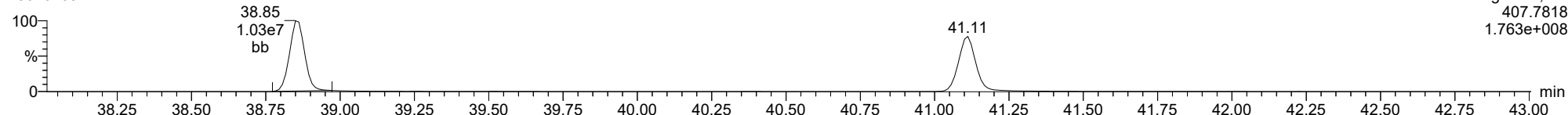
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

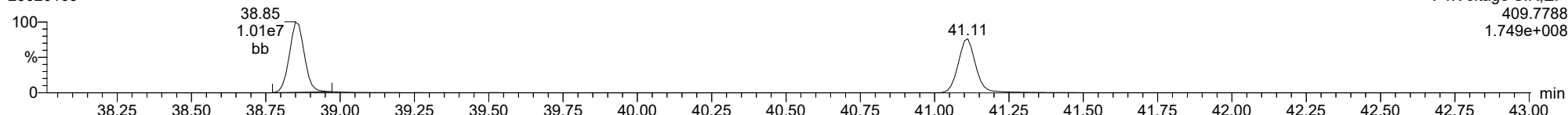
1234678-HpCDF

23020109



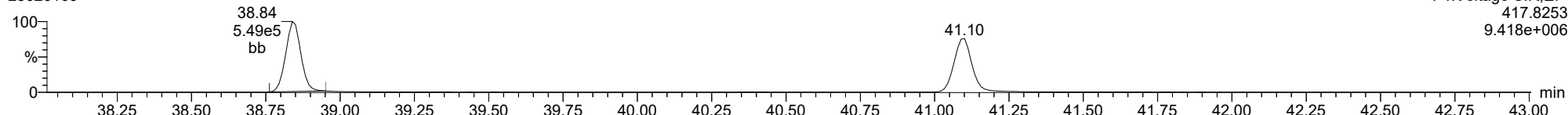
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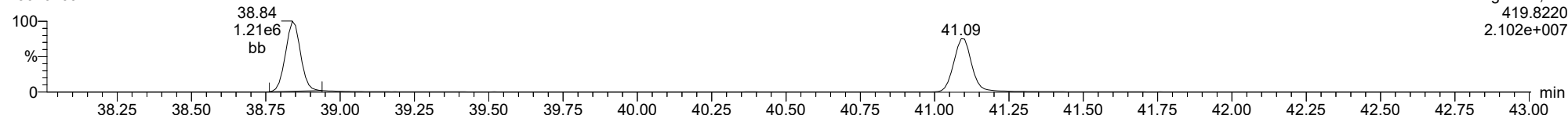
13C-1234678-HpCDF

23020109



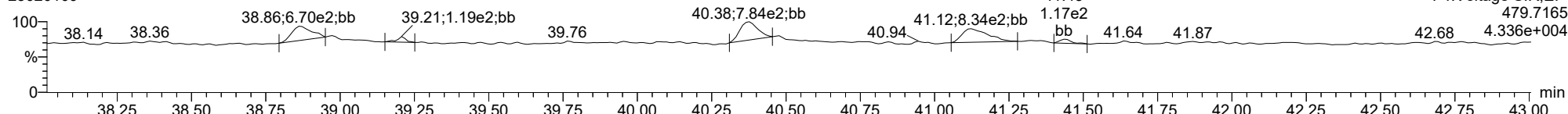
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23020109



FUNCTION4 NCDPE

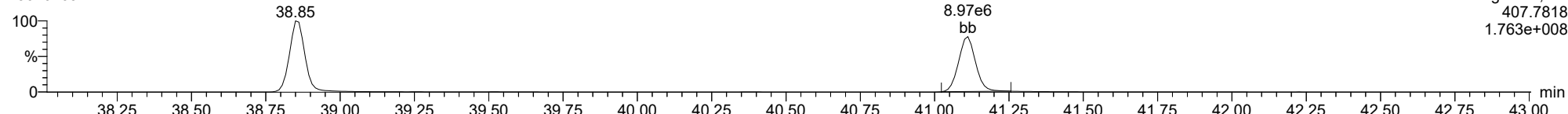
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

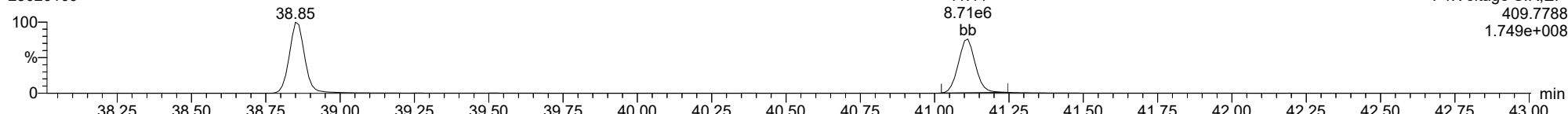
23020109



F4:Voltage SIR,EI+
409.7818
1.763e+008

1234789-HpCDF

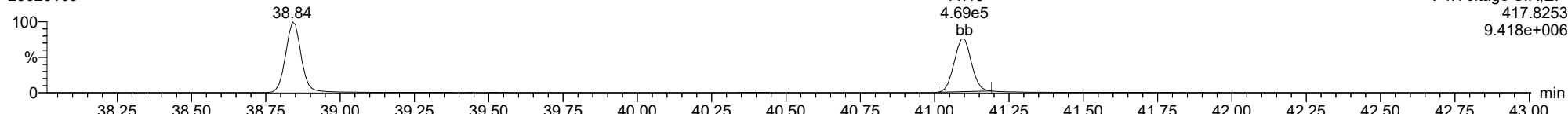
23020109



F4:Voltage SIR,EI+
409.7788
1.749e+008

13C-1234789-HpCDF

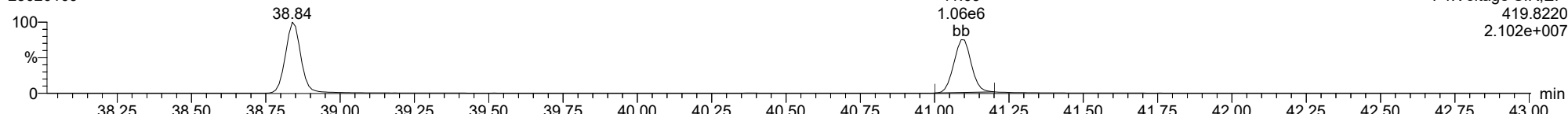
23020109



F4:Voltage SIR,EI+
417.8253
9.418e+006

13C-1234789-HpCDF

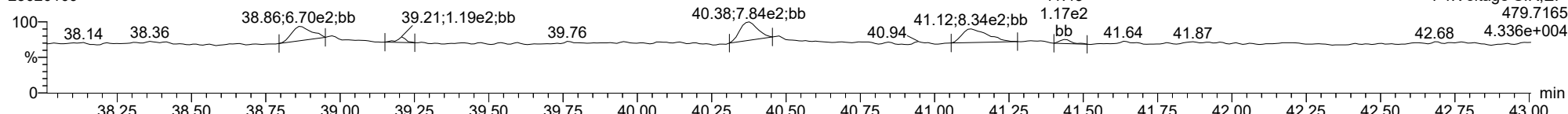
23020109



F4:Voltage SIR,EI+
419.8220
2.102e+007

FUNCTION4 NCDPE

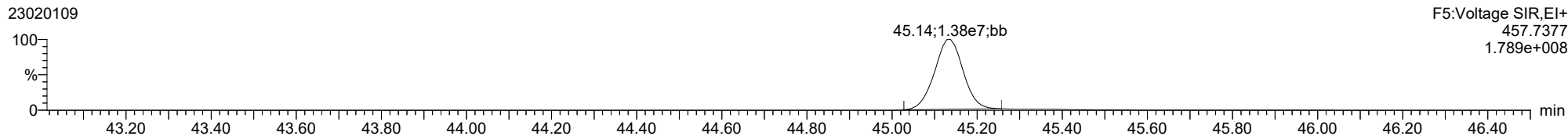
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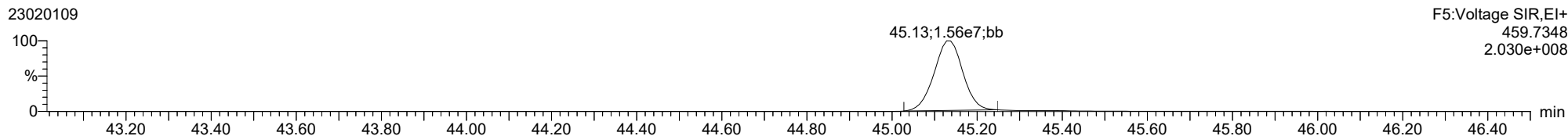
F4:Voltage SIR,EI+
479.7165
4.336e+004

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

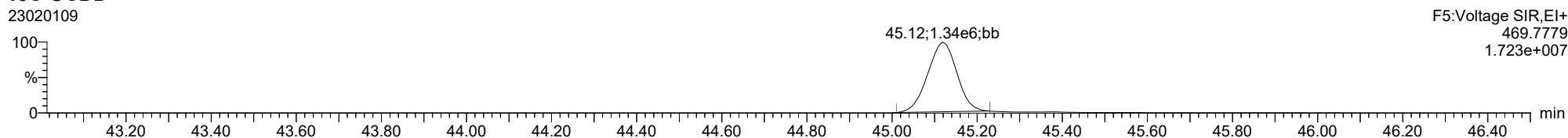
OCDD



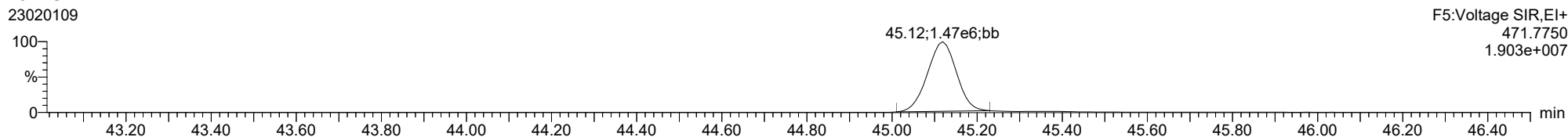
OCDD



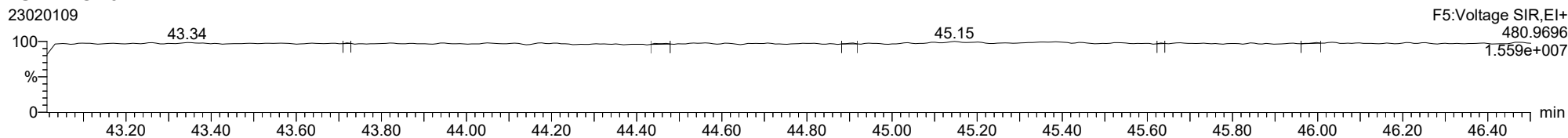
13C-OCDD



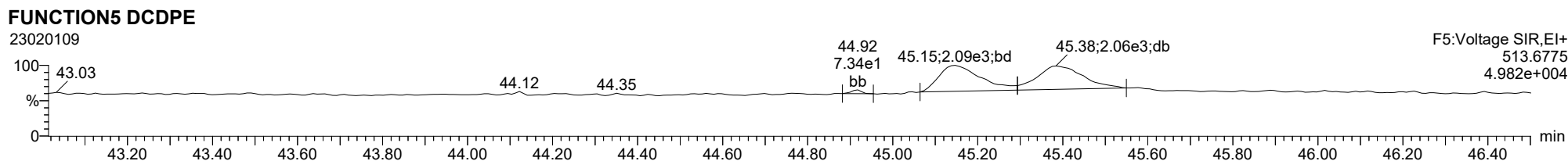
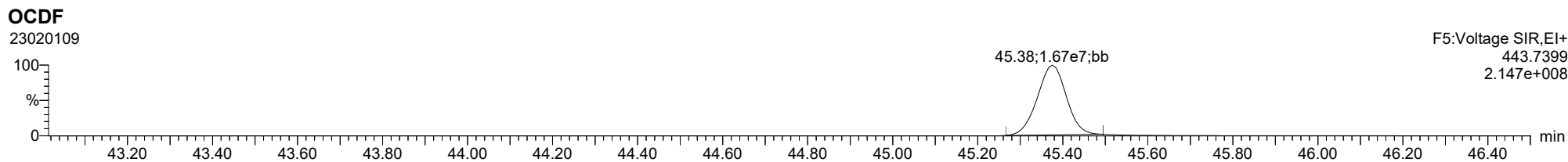
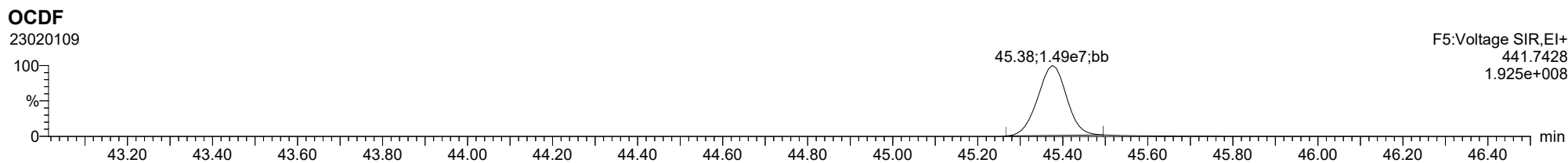
13C-OCDD



FUNCTIONS PFK



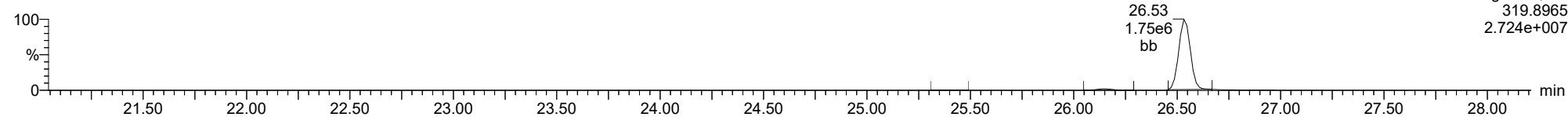
ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk



ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

Total-tetradoxins

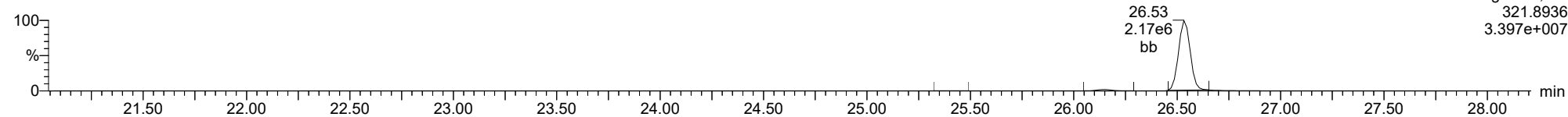
23020109



F1:Voltage SIR,EI+
319.8965
2.724e+007

Total-tetradoxins

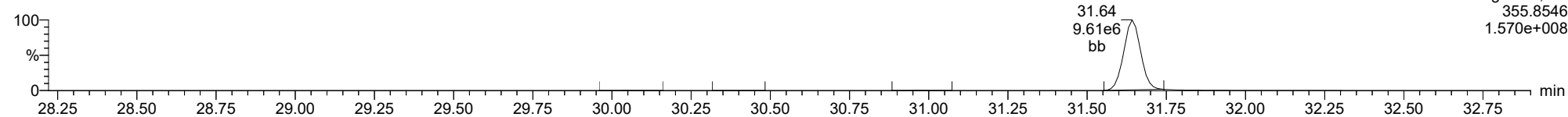
23020109



F1:Voltage SIR,EI+
321.8936
3.397e+007

Total-pentadoxins

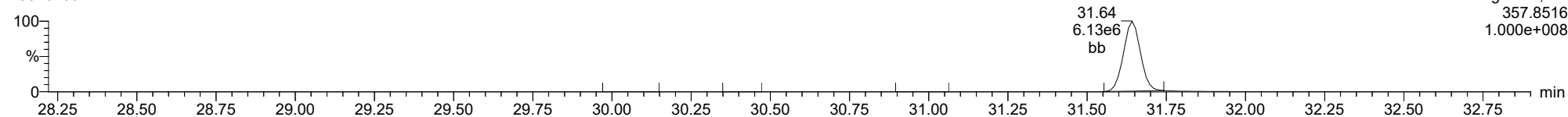
23020109



F2:Voltage SIR,EI+
355.8546
1.570e+008

Total-pentadoxins

23020109

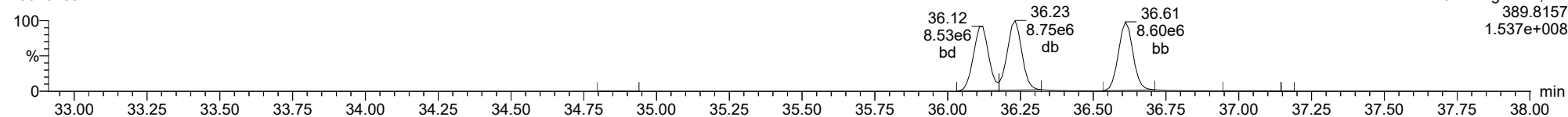


F2:Voltage SIR,EI+
357.8516
1.000e+008

ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

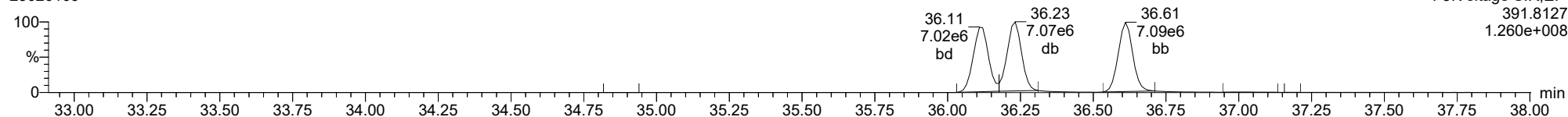
Total-hexadioxins

23020109



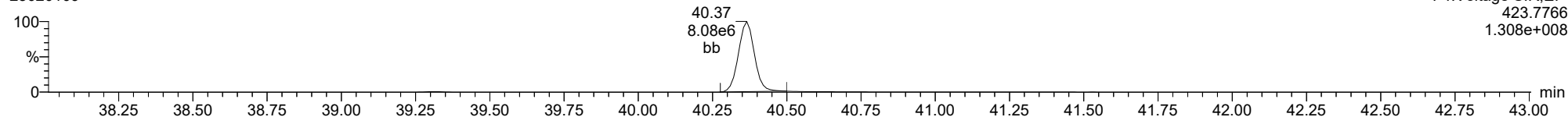
Total-hexadioxins

23020109



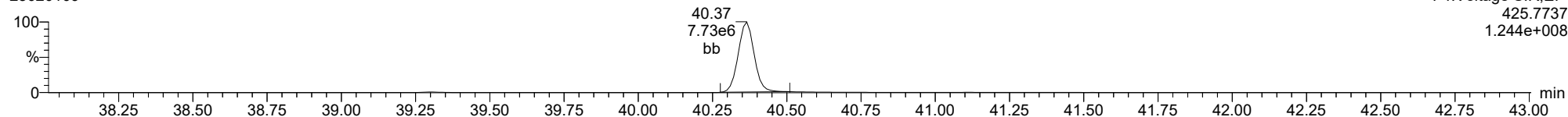
Total-heptadioxins

23020109



Total-heptadioxins

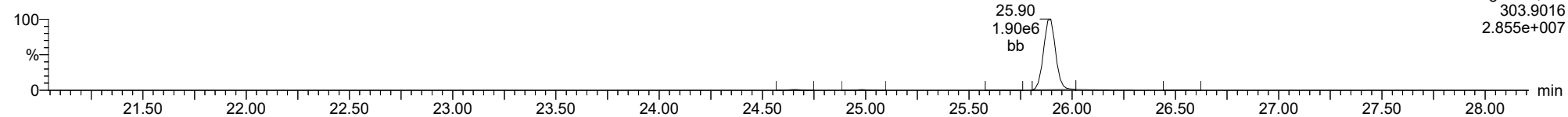
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

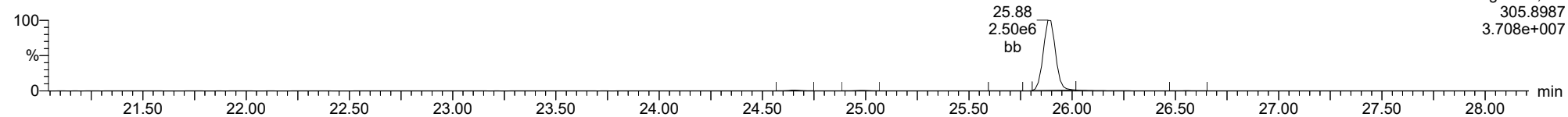
Total-tetrafurans

23020109



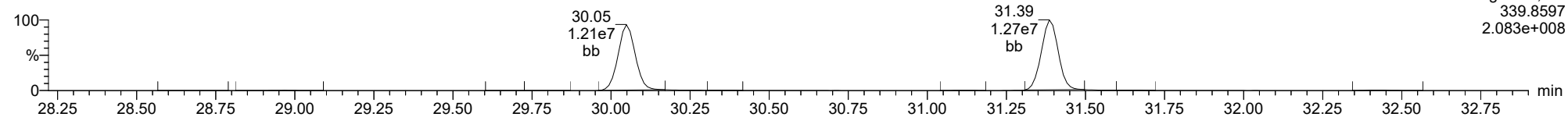
Total-tetrafurans

23020109



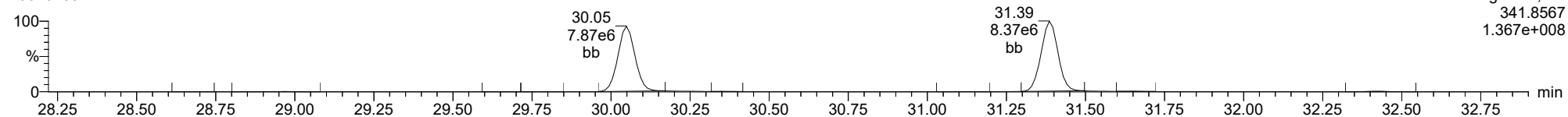
Total-pentafurans

23020109



Total-pentafurans

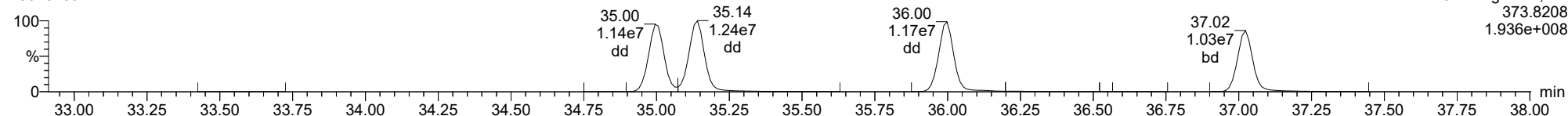
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ID: CS5CR, Name: 23020109, Date: 01-Feb-2023, Time: 19:34:25, Conditions: AUTOSPEC01, User: pk

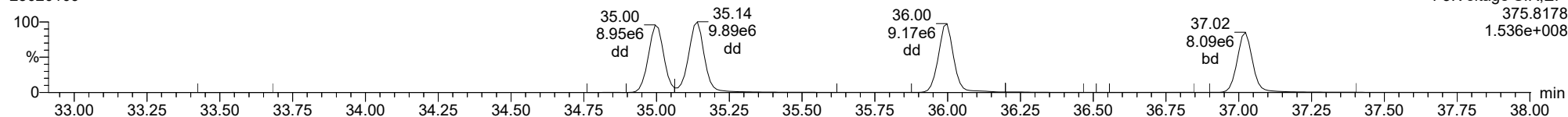
Total-hexafurans

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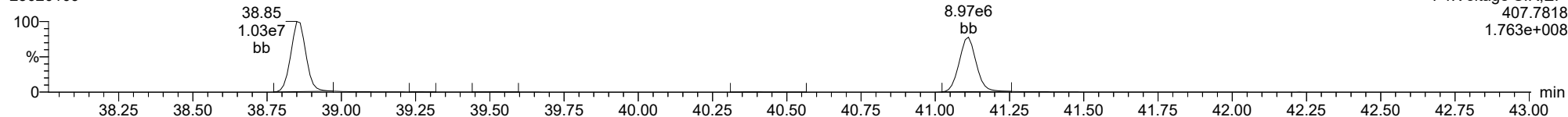
Total-hexafurans

23020109



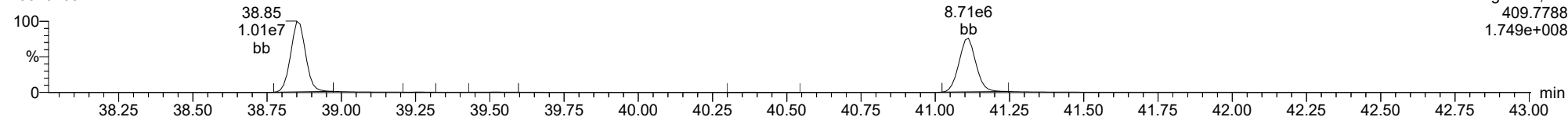
Total-heptafurans

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

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****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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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	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

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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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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

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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

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

PFK4

	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

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**ETHERS1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.80	1.077e2					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

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**ETHERS5**

	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

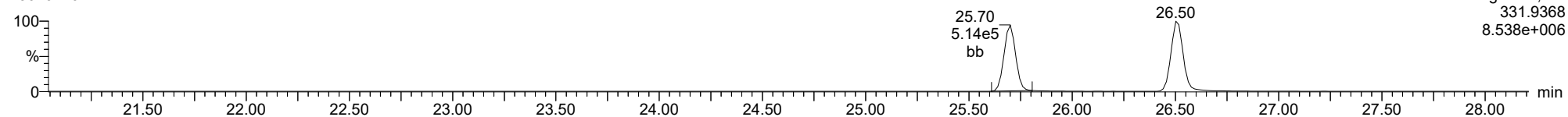
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.11	7.207e1					2.3	NO		bb		0.000

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

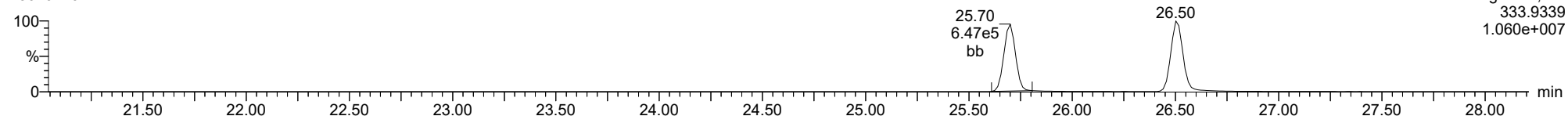
13C-1234-TCDD

23020110



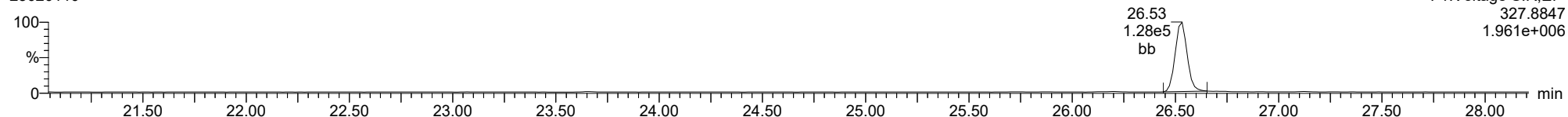
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23020110



37CL-2378-TCDD

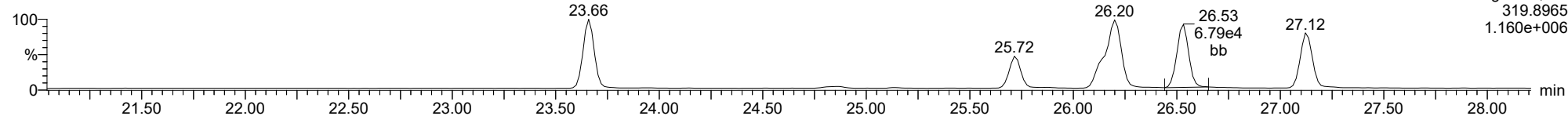
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

2378-TCDD

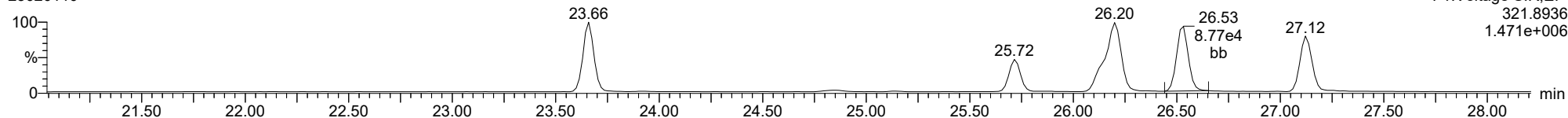
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F1:Voltage SIR,EI+
319.8965
1.160e+006

2378-TCDD

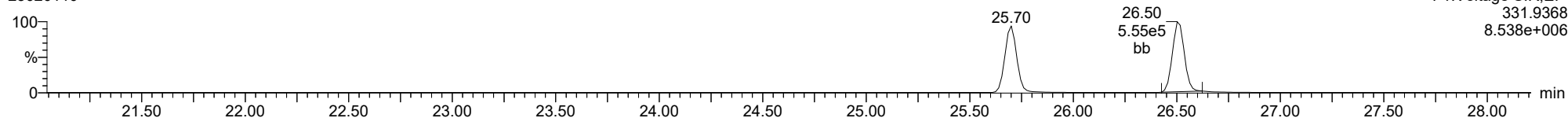
23020110



F1:Voltage SIR,EI+
321.8936
1.471e+006

13C-2378-TCDD

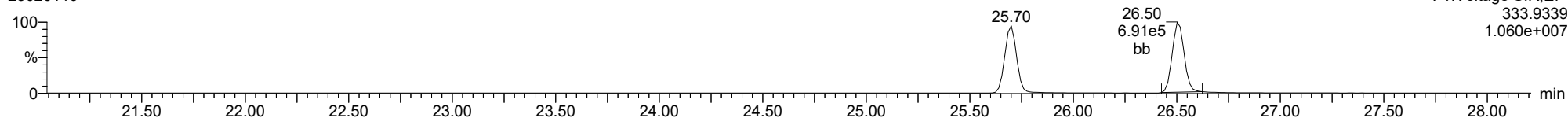
23020110



F1:Voltage SIR,EI+
331.9368
8.538e+006

13C-2378-TCDD

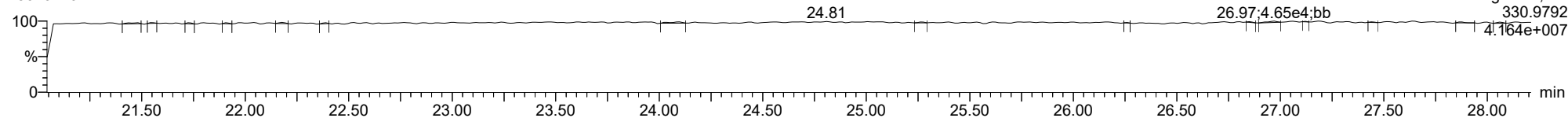
23020110



F1:Voltage SIR,EI+
333.9339
1.060e+007

FUNCTION1 PFK

23020110

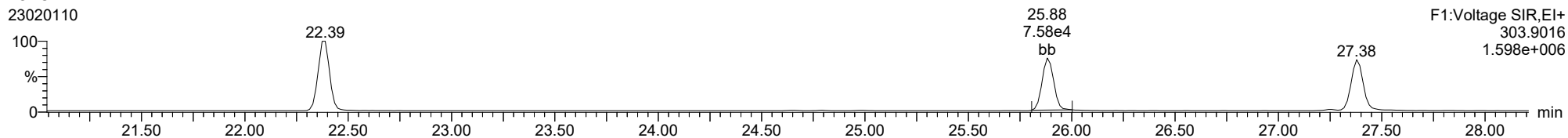


F1:Voltage SIR,EI+
330.9792
4.164e+007

ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

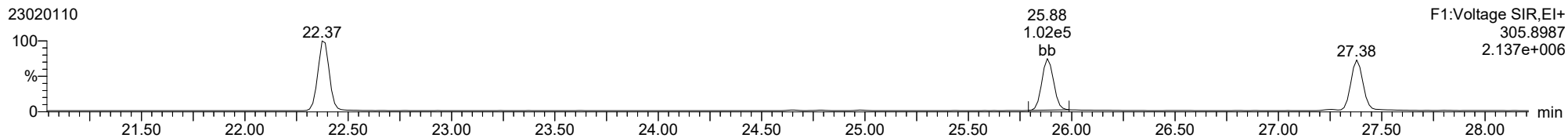
2378-TCDF

23020110



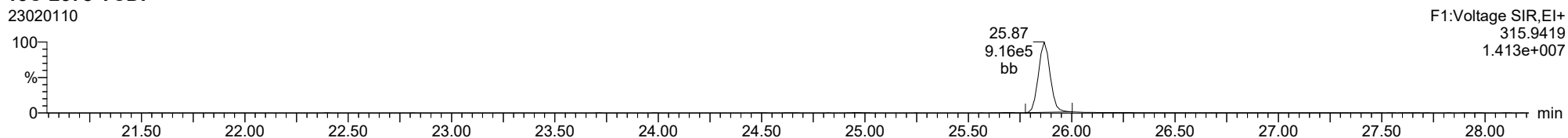
2378-TCDF

23020110



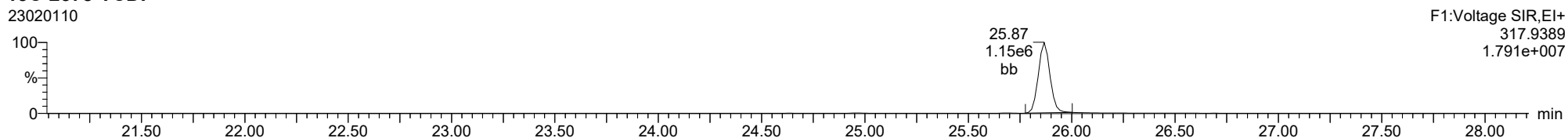
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23020110



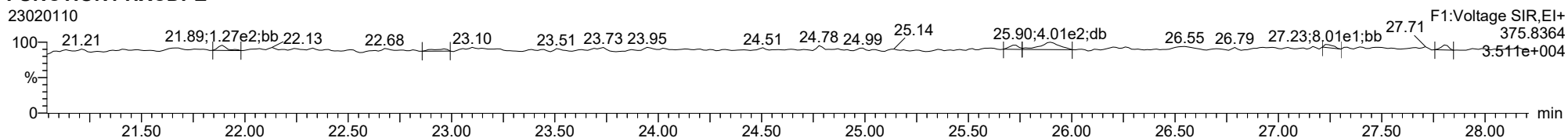
13C-2378-TCDF

23020110



FUNCTION1 HXCDPE

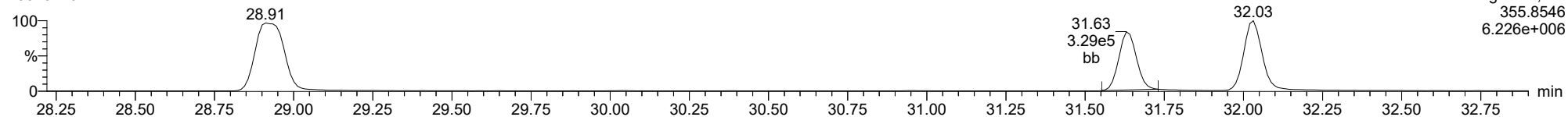
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

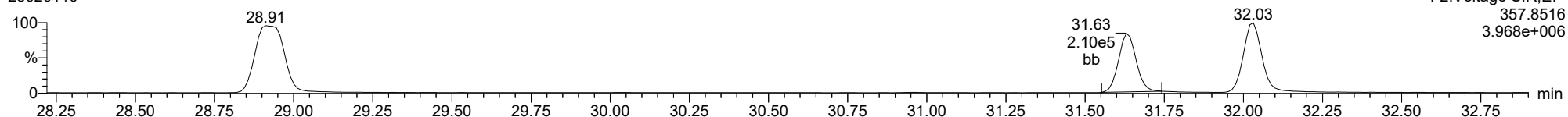
12378-PeCDD

23020110



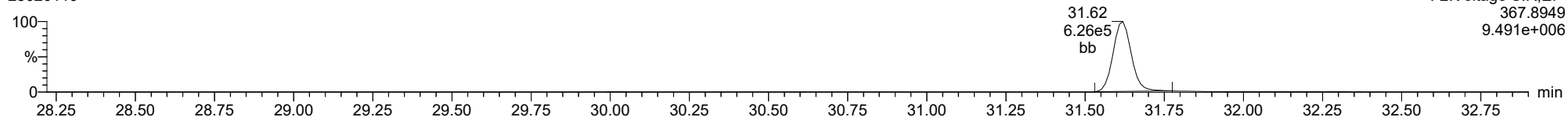
12378-PeCDD

23020110



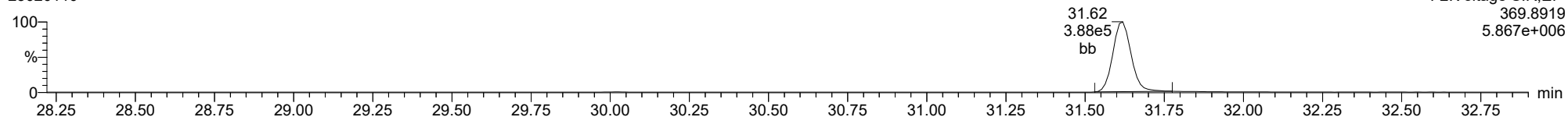
13C-12378-PeCDD

23020110



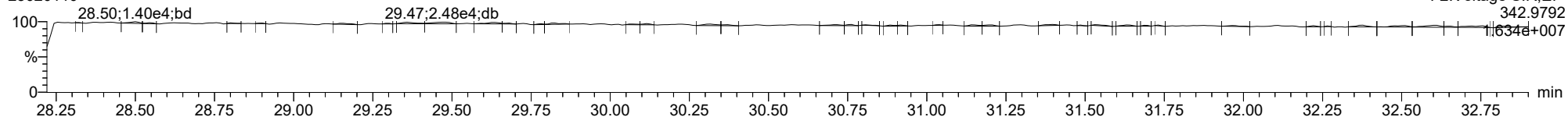
13C-12378-PeCDD

23020110



FUNCTION2 PFK

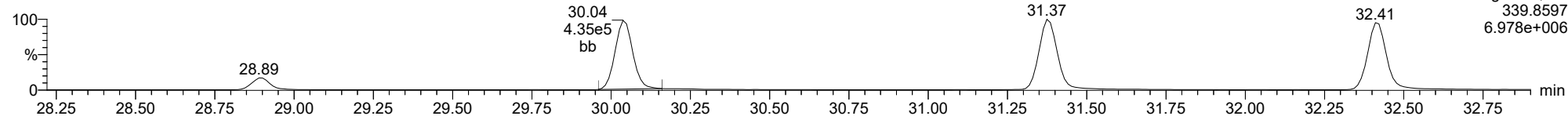
23020110



ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

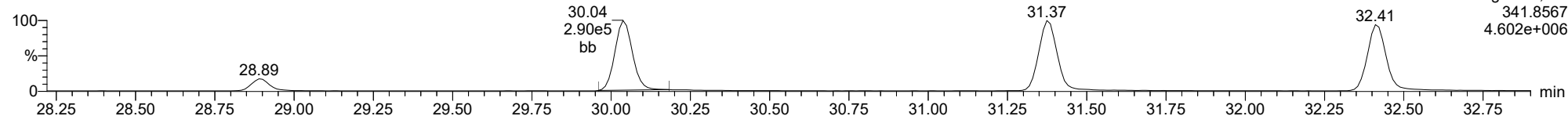
12378-PeCDF

23020110



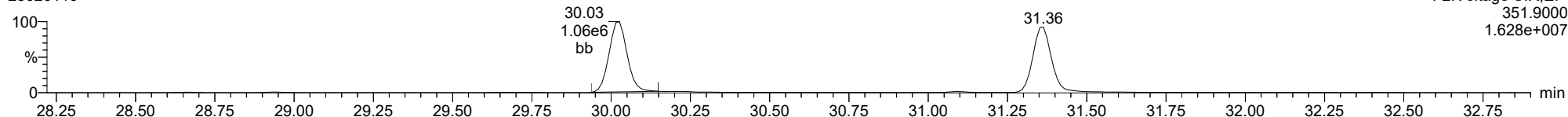
12378-PeCDF

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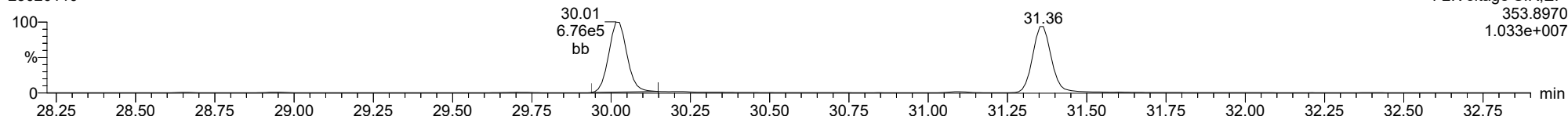
13C-12378-PeCDF

23020110



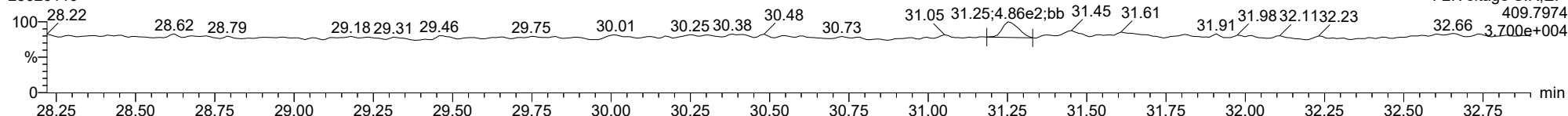
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23020110



FUNCTION2 HPCDPE

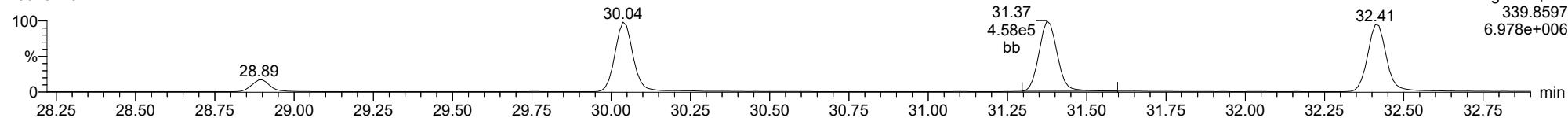
23020110



ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

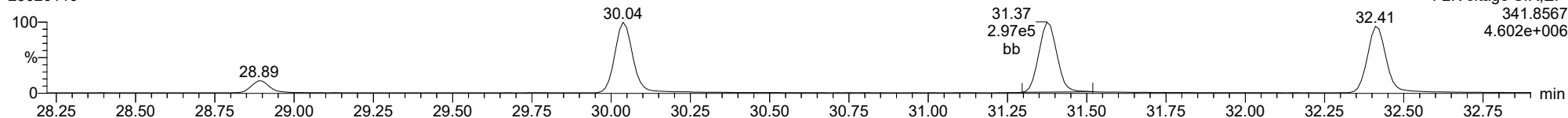
23478-PeCDF

23020110



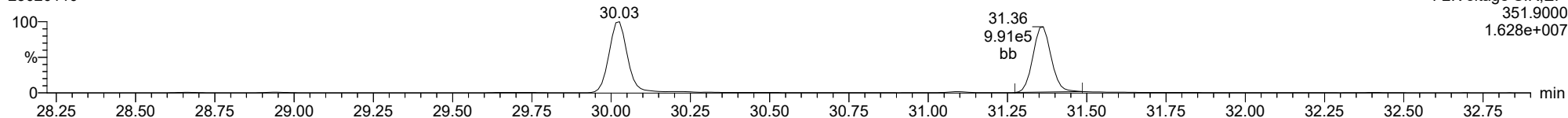
23478-PeCDF

23020110



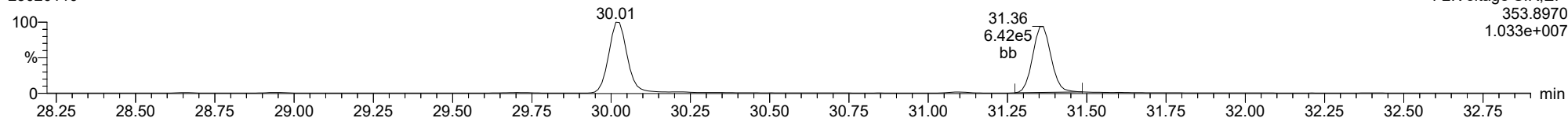
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23020110



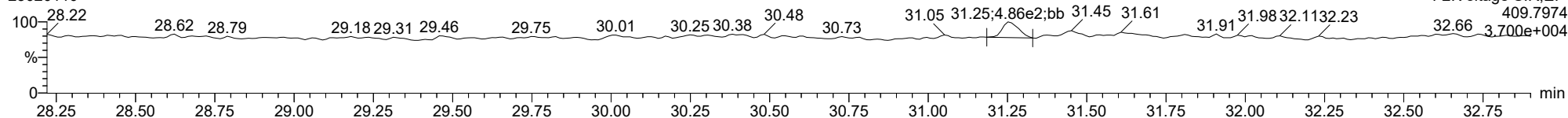
13C-23478-PeCDF

23020110



FUNCTION2 HPCDPE

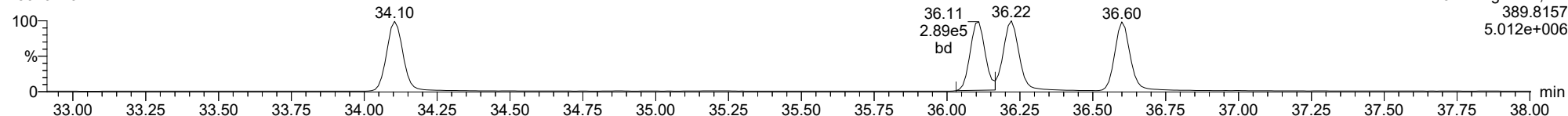
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

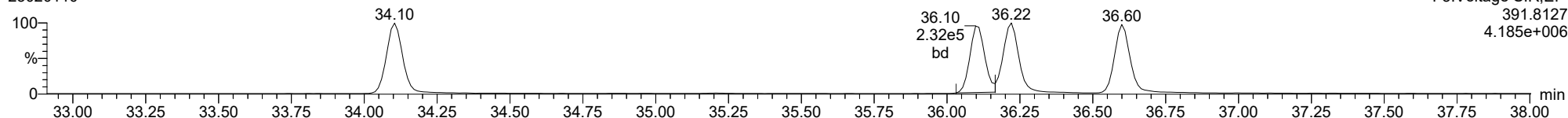
123478-HxCDD

23020110



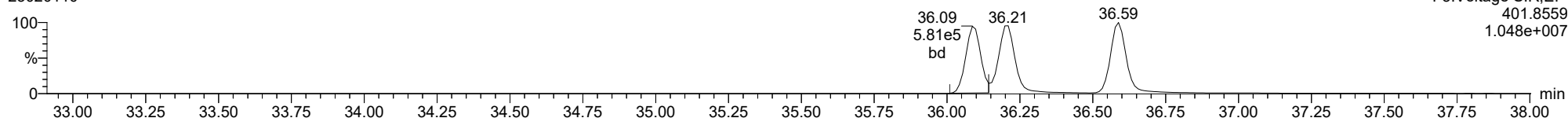
123478-HxCDD

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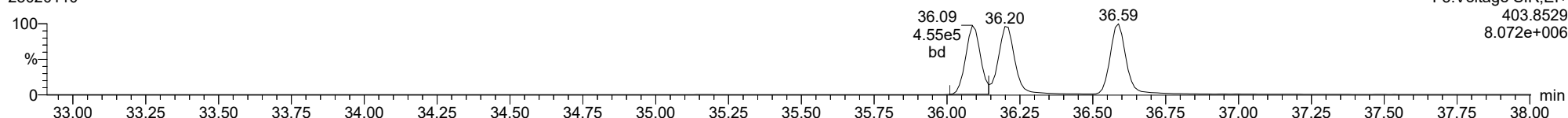
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23020110



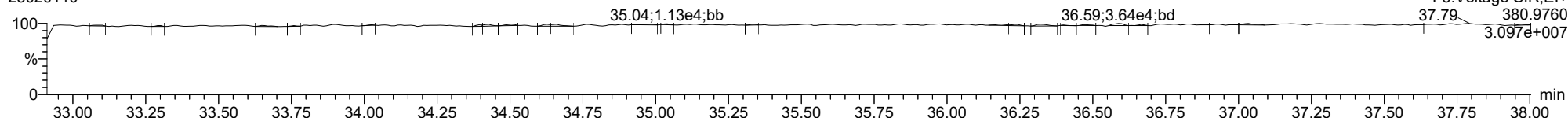
13C-123478-HxCDD

23020110



FUNCTION3 PFK

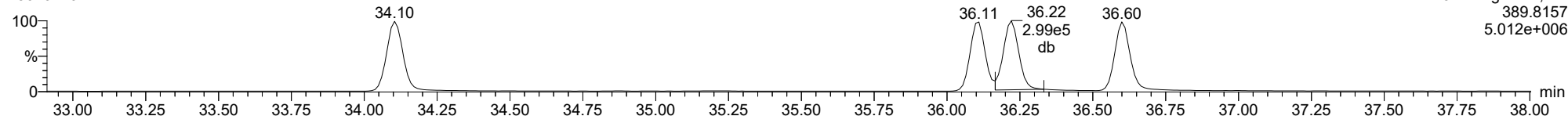
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

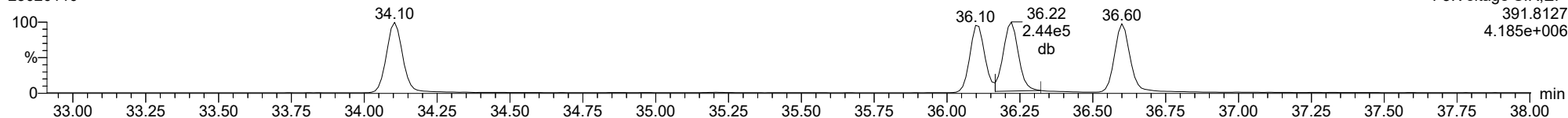
123678-HxCDD

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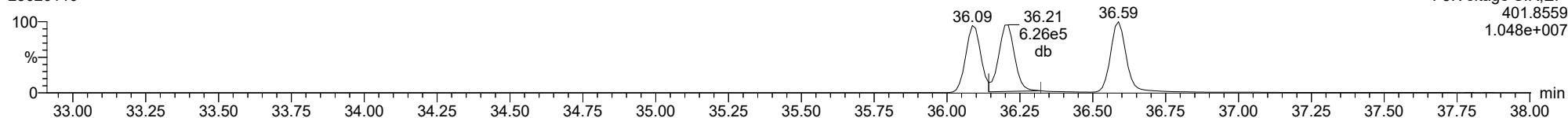
123678-HxCDD

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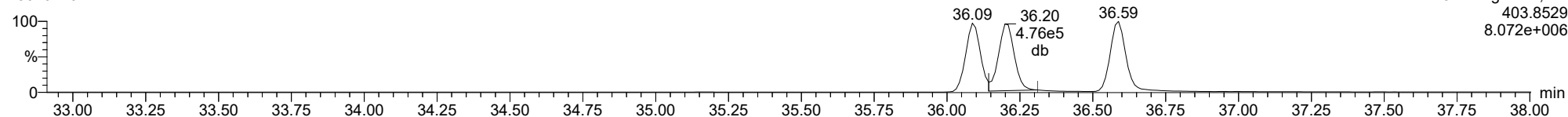
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23020110



13C-123678-HxCDD

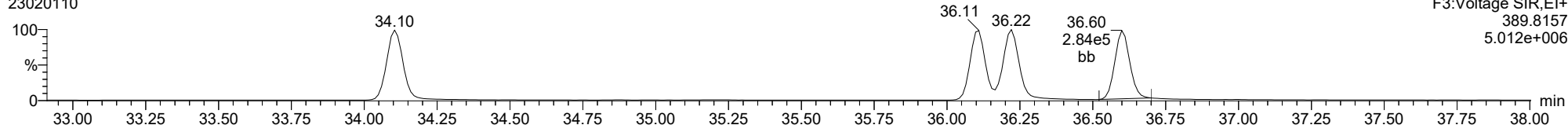
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

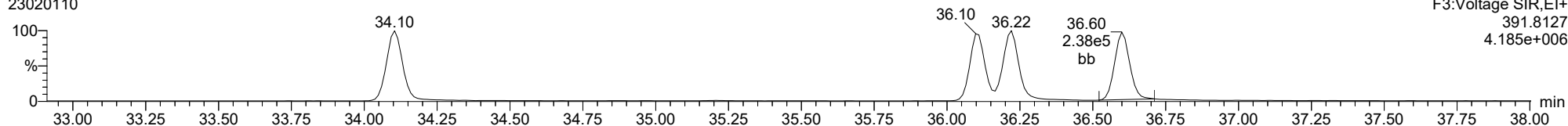
123789-HxCDD

23020110



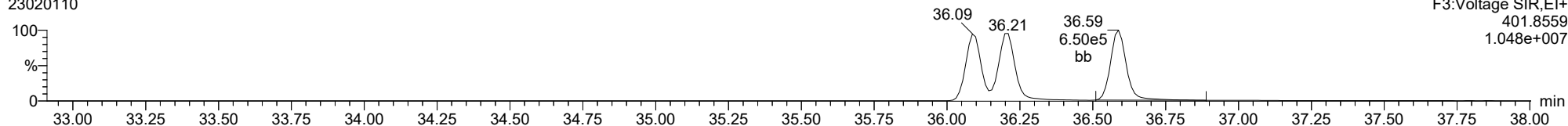
123789-HxCDD

23020110



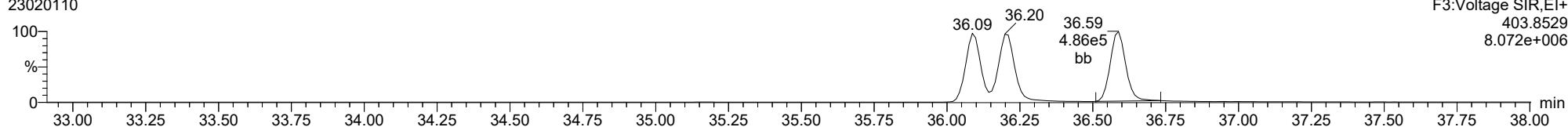
13C-123789-HxCDD

23020110



13C-123789-HxCDD

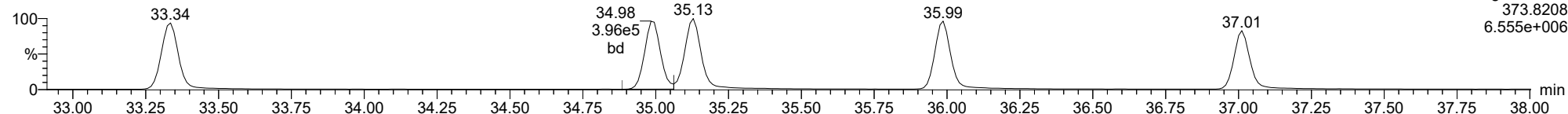
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

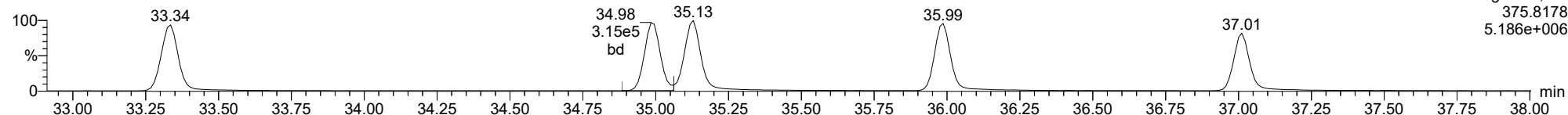
123478-HxCDF

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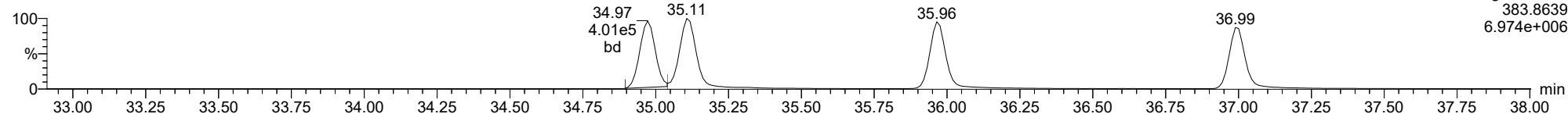
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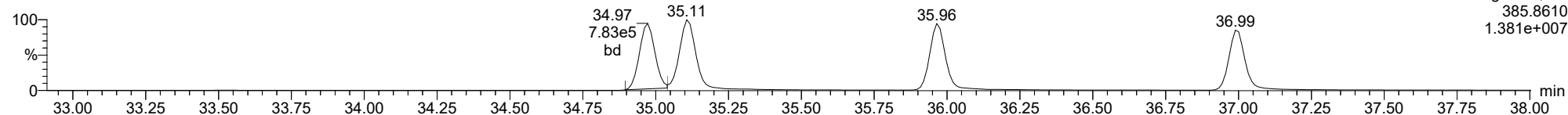
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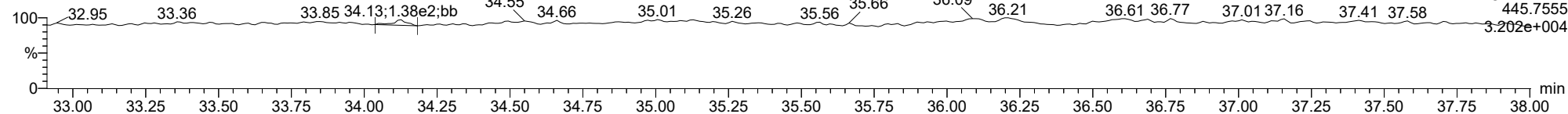
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23020110



FUNCTION3 OCDPE

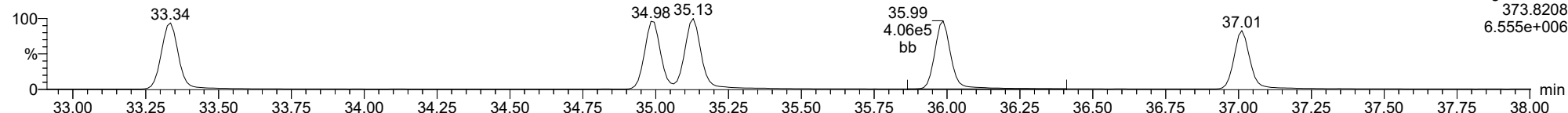
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

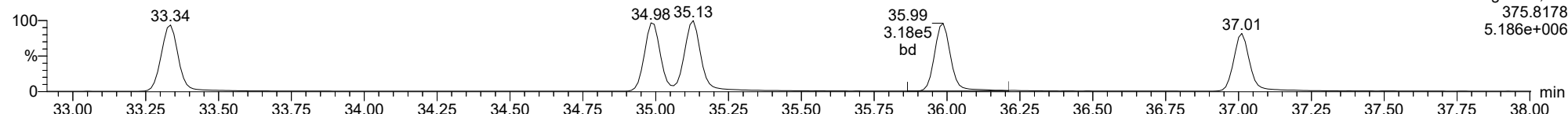
234678-HxCDF

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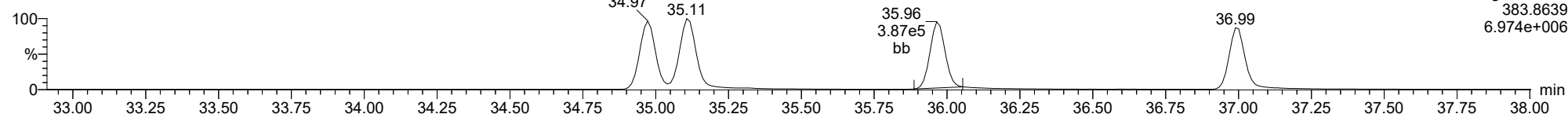
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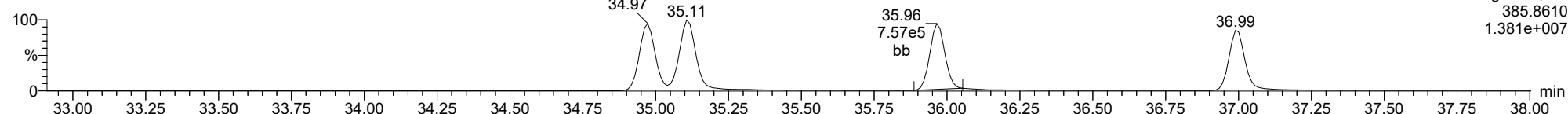
13C-234678-HxCDF

23020110



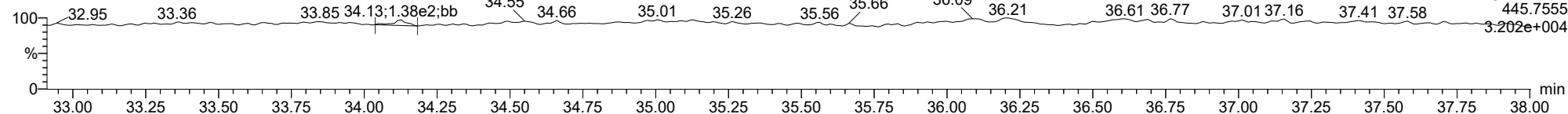
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23020110



FUNCTION3 OCDPE

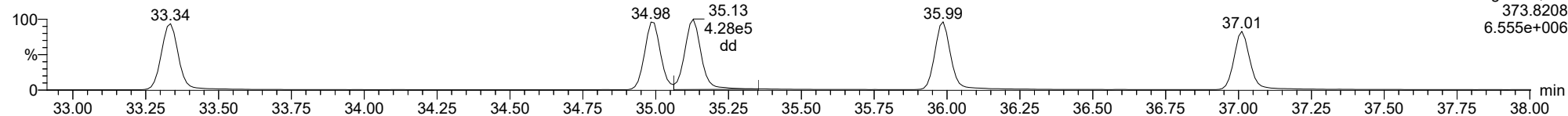
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

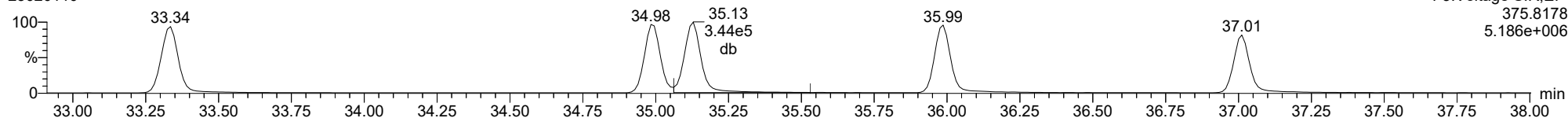
123678-HxCDF

23020110



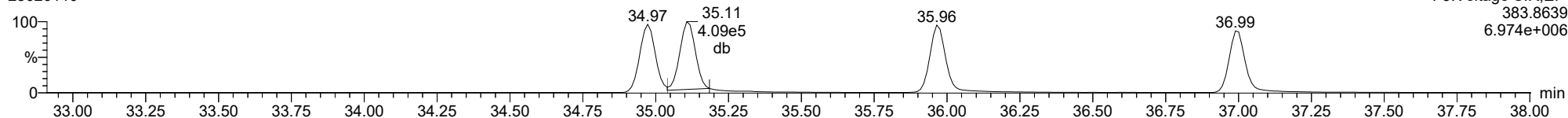
123678-HxCDF

23020110



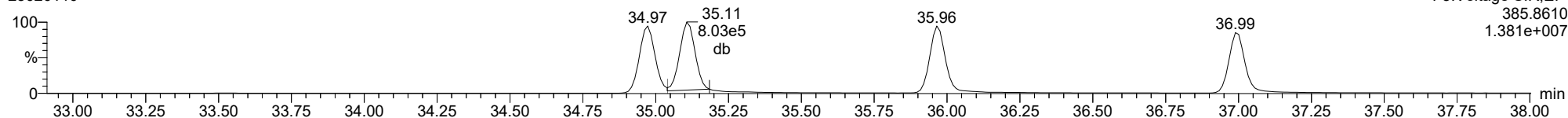
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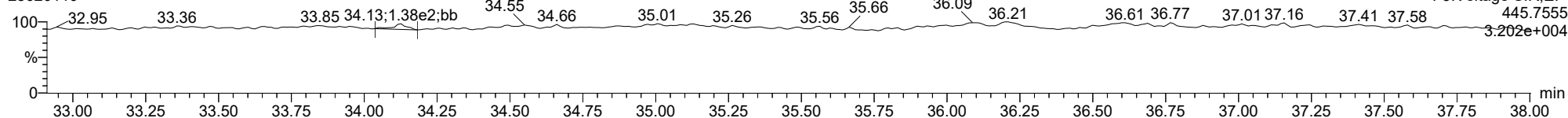
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23020110



FUNCTION3 OCDPE

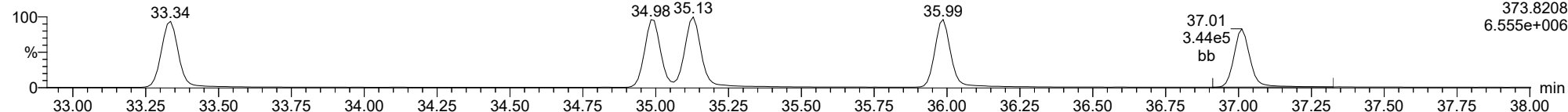
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

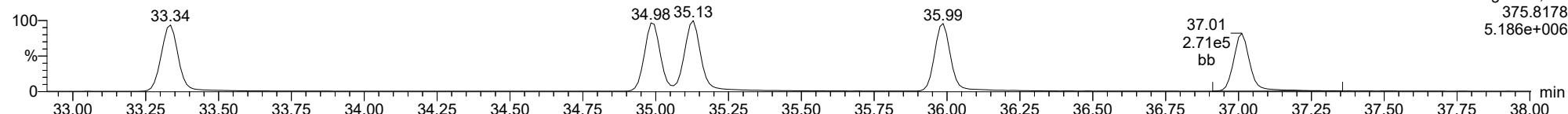
123789-HxCDF

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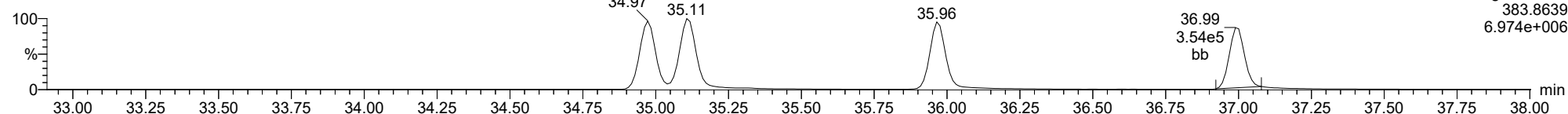
123789-HxCDF

23020110



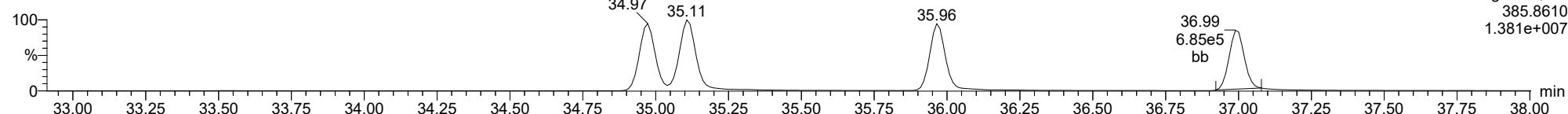
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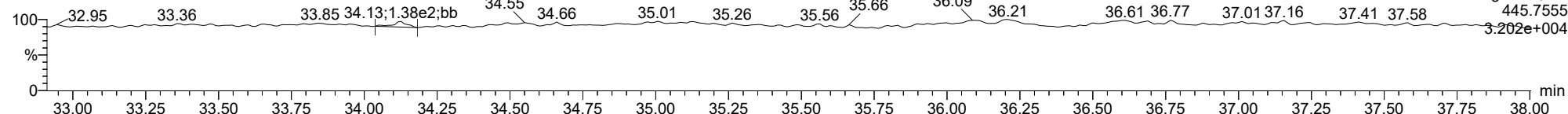
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23020110



FUNCTION3 OCDPE

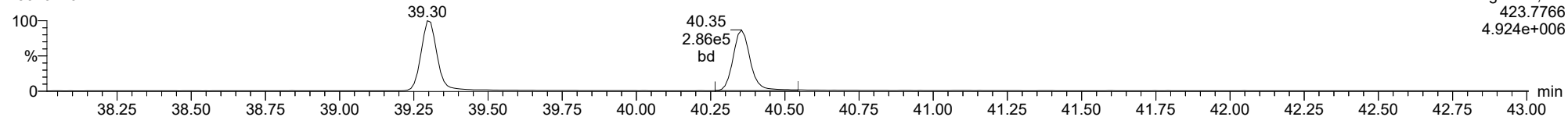
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

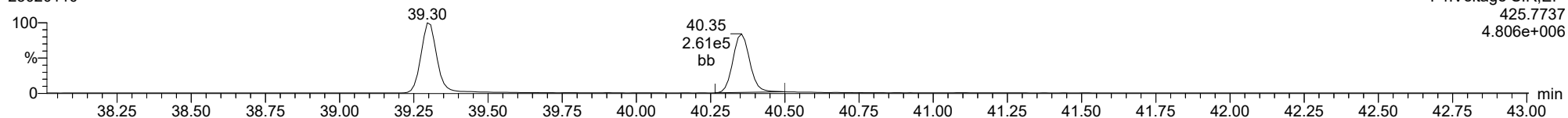
1234678-HpCDD

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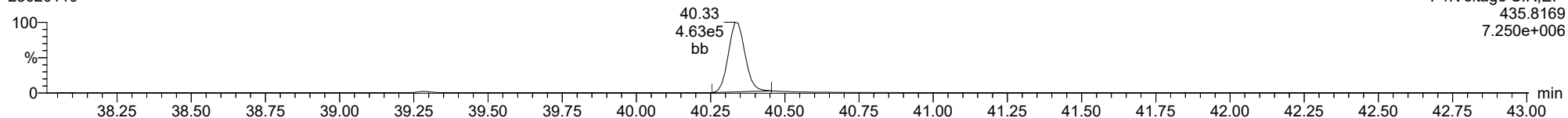
1234678-HpCDD

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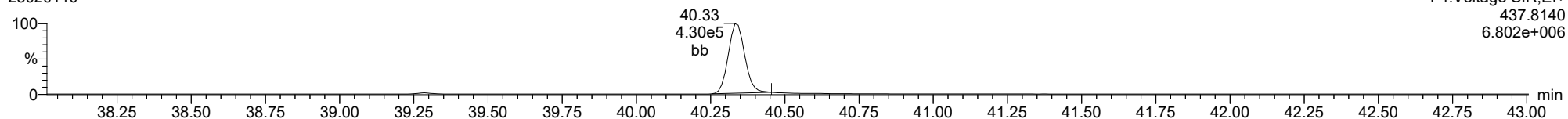
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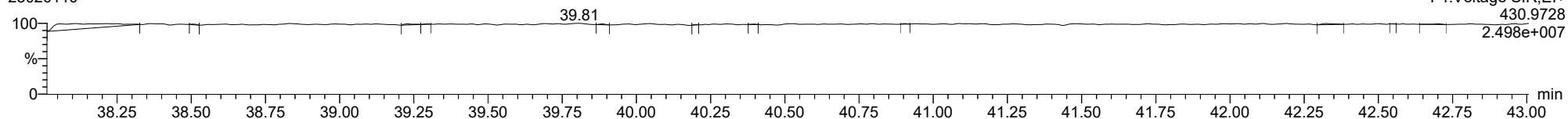
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FUNCTION4 PFK

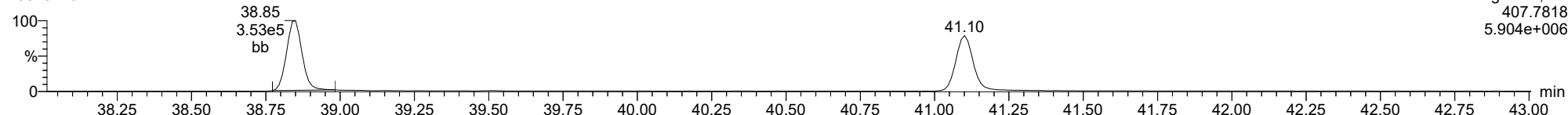
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

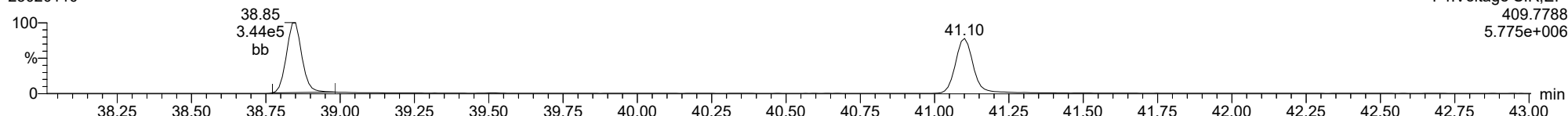
1234678-HpCDF

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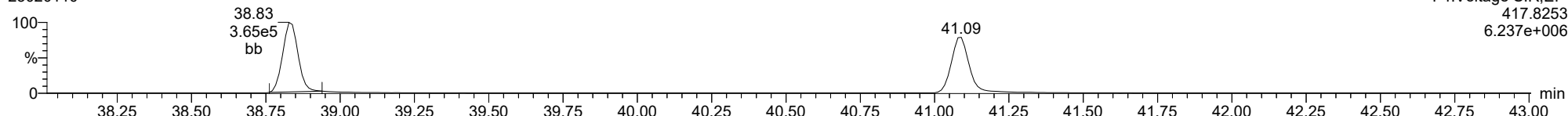
1234678-HpCDF

23020110



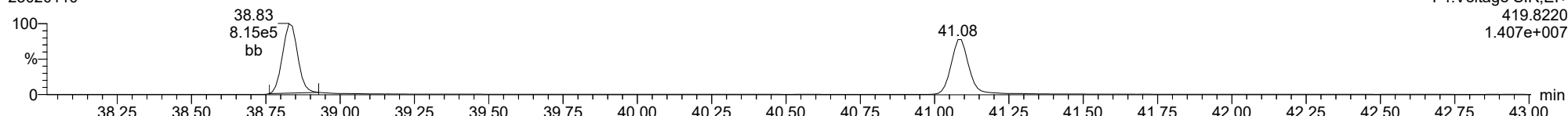
13C-1234678-HpCDF

23020110



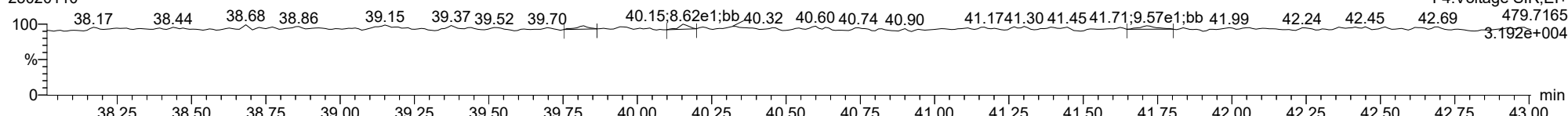
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23020110



FUNCTION4 NCDPE

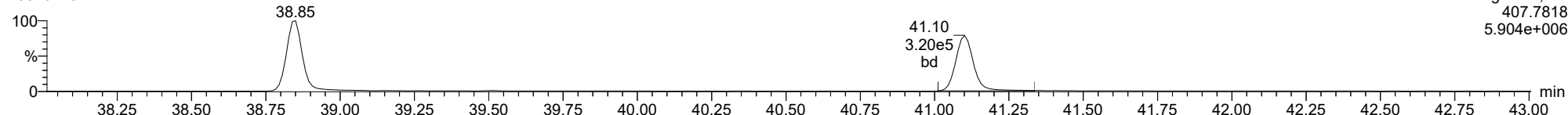
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

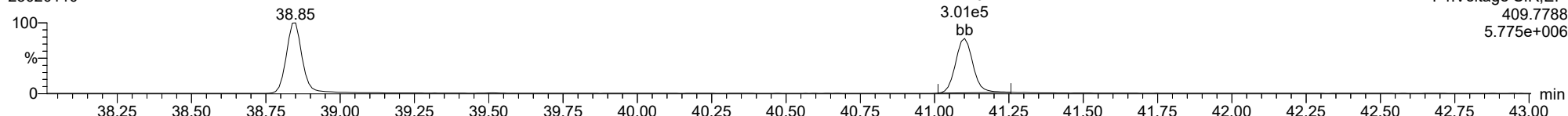
1234789-HpCDF

23020110



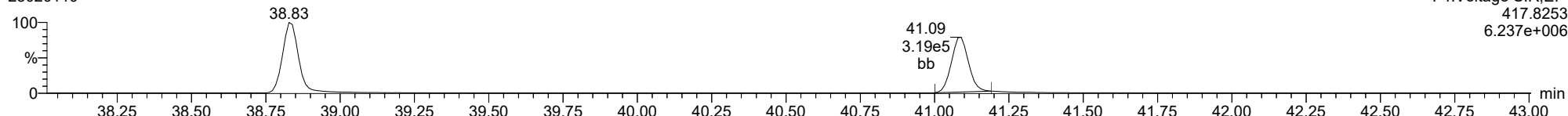
1234789-HpCDF

23020110



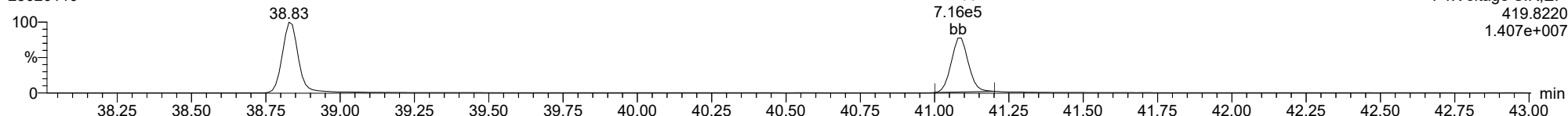
13C-1234789-HpCDF

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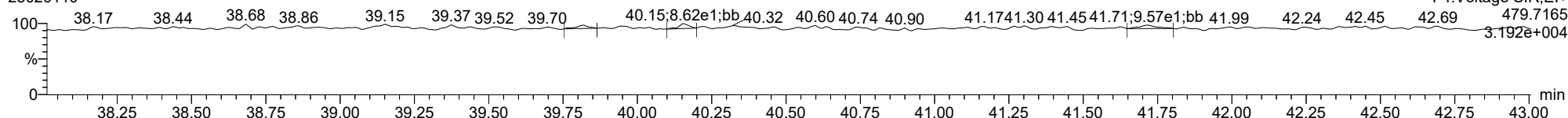
13C-1234789-HpCDF

23020110



FUNCTION4 NCDPE

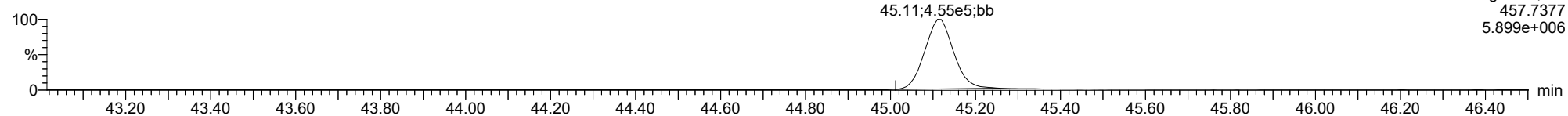
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

OCDD

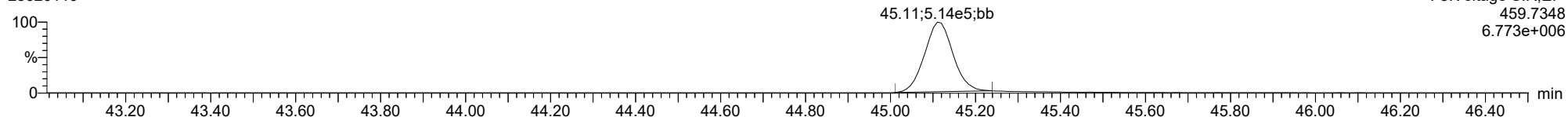
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F5:Voltage SIR,El+
457.7377
5.899e+006

OCDD

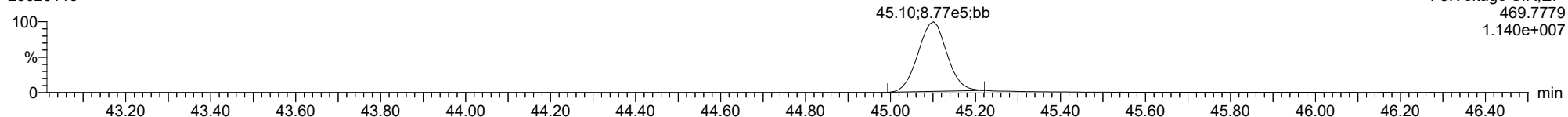
23020110



F5:Voltage SIR,El+
459.7348
6.773e+006

13C-OCDD

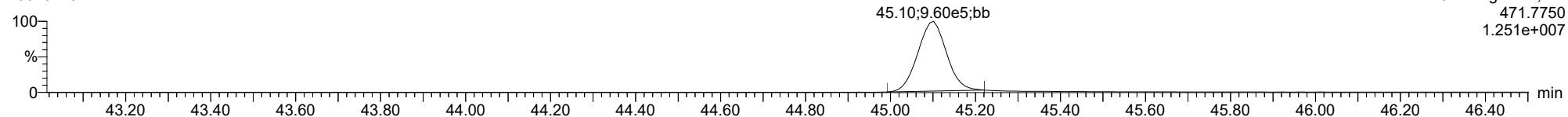
23020110



F5:Voltage SIR,El+
469.7779
1.140e+007

13C-OCDD

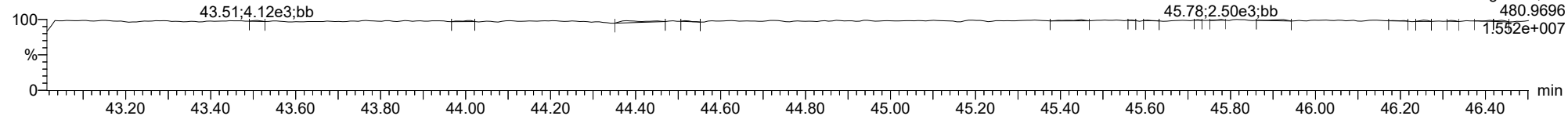
23020110



F5:Voltage SIR,El+
471.7750
1.251e+007

FUNCTION5 PFK

23020110

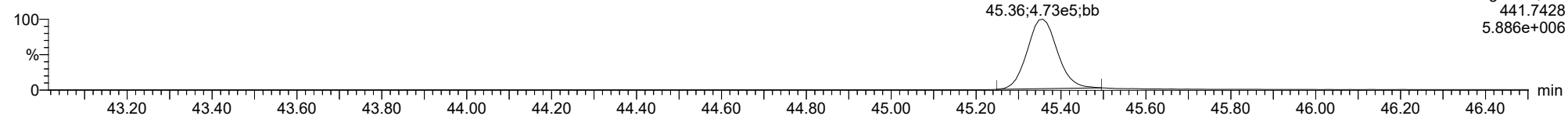


F5:Voltage SIR,El+
480.9696
1.552e+007

ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

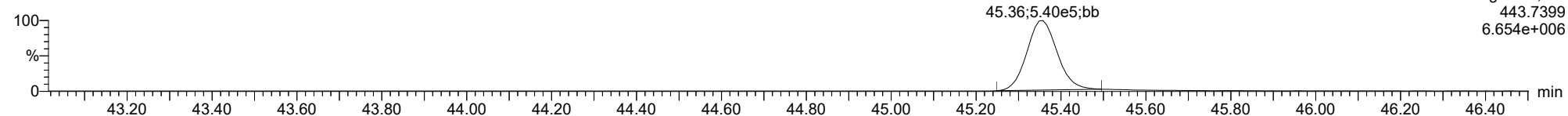
OCDF

23020110



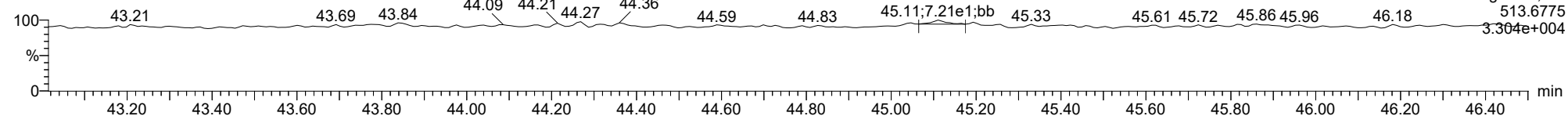
OCDF

23020110



FUNCTION5 DCDPE

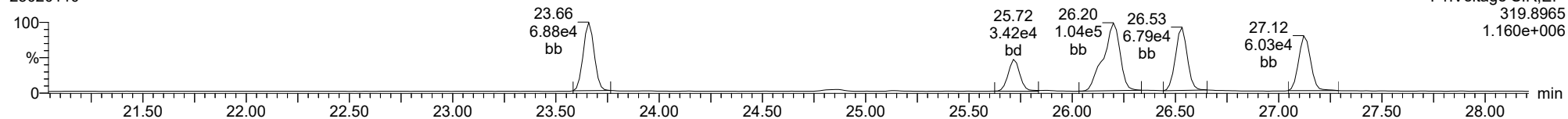
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

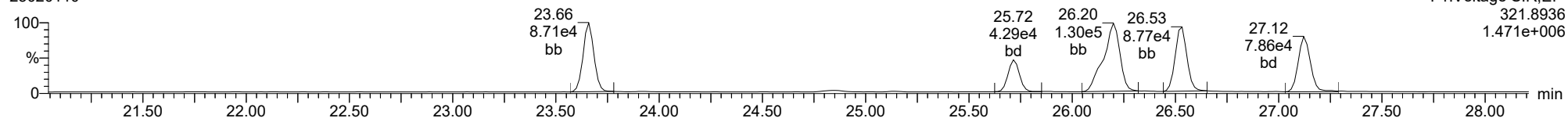
Total-tetradioxins

23020110



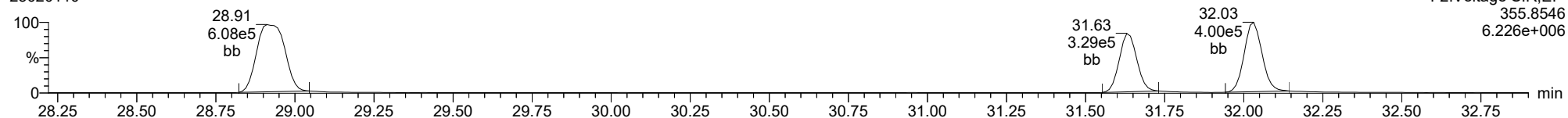
Total-tetradioxins

23020110



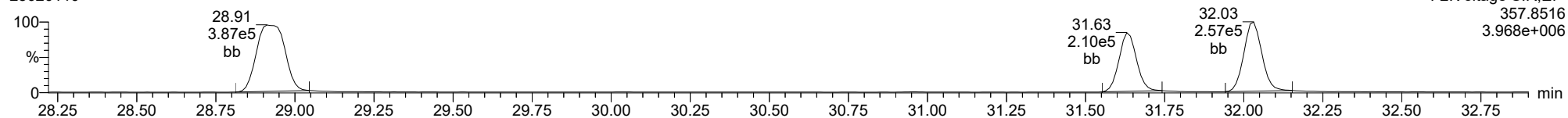
Total-pentadioxins

23020110



Total-pentadioxins

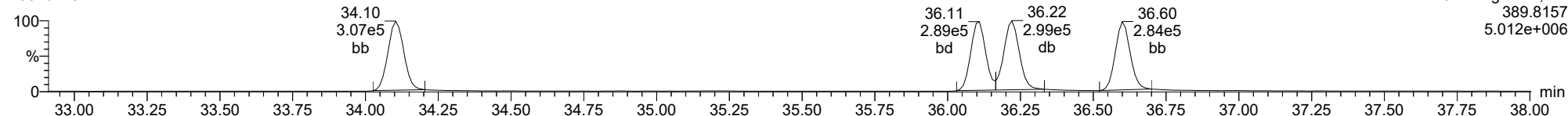
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

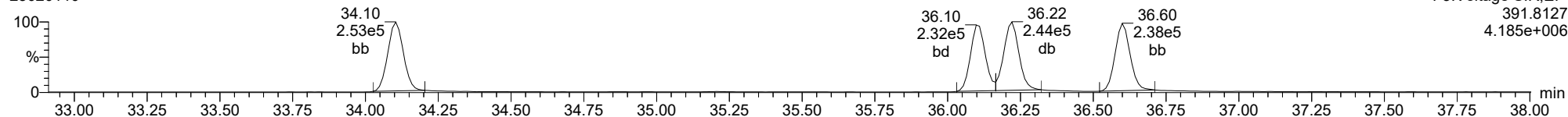
Total-hexadioxins

23020110



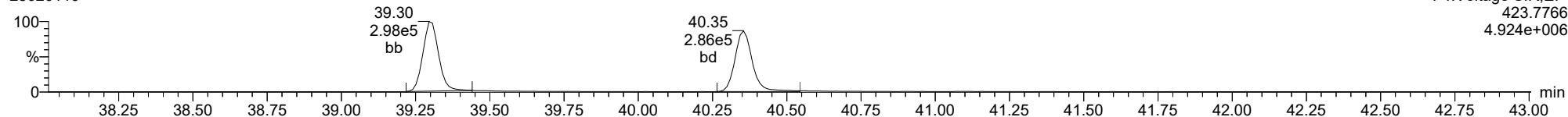
Total-hexadioxins

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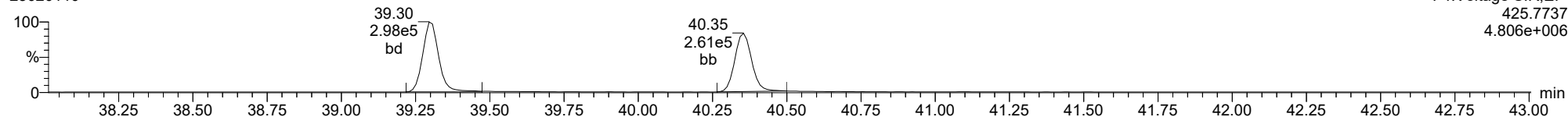
Total-heptadioxins

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Total-heptadioxins

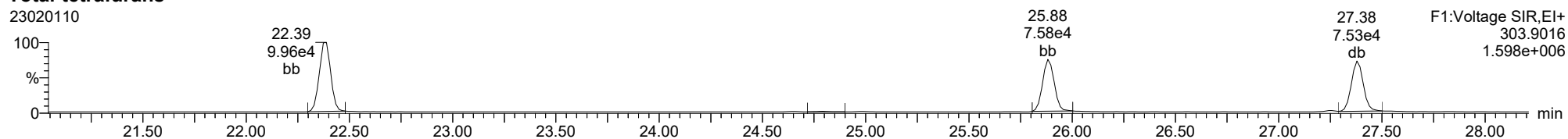
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

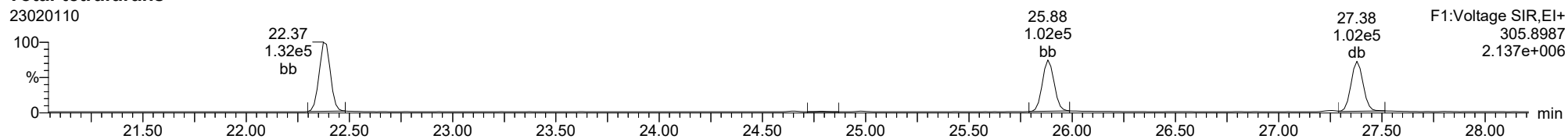
Total-tetrafurans

23020110



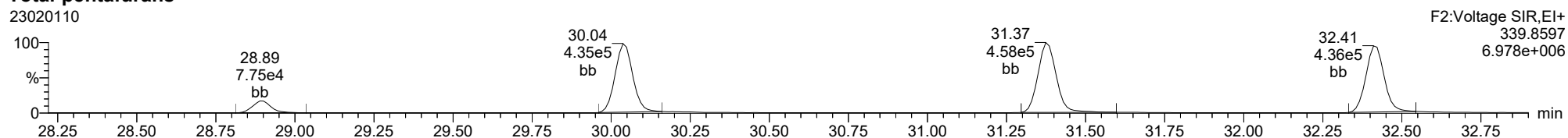
Total-tetrafurans

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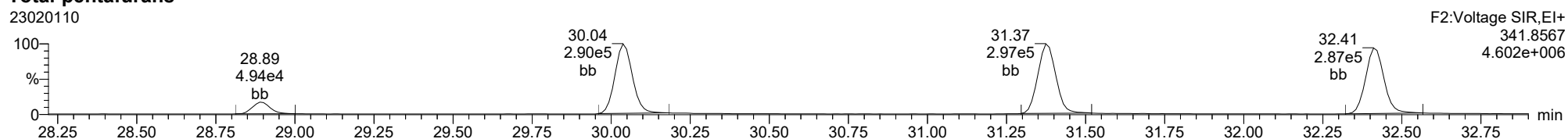
Total-pentafurans

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Total-pentafurans

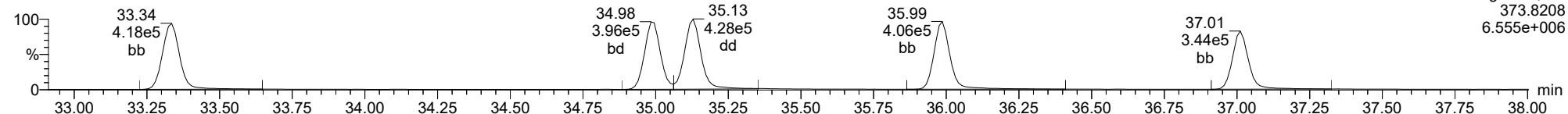
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ID: ICVCR, Name: 23020110, Date: 01-Feb-2023, Time: 20:23:25, Conditions: AUTOSPEC01, User: pk

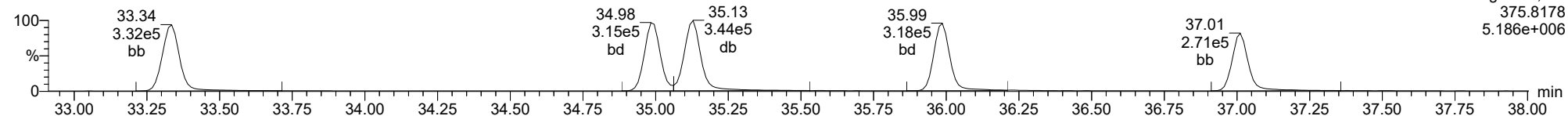
Total-hexafurans

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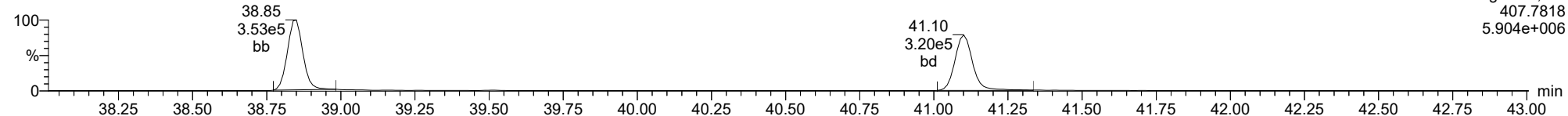
Total-hexafurans

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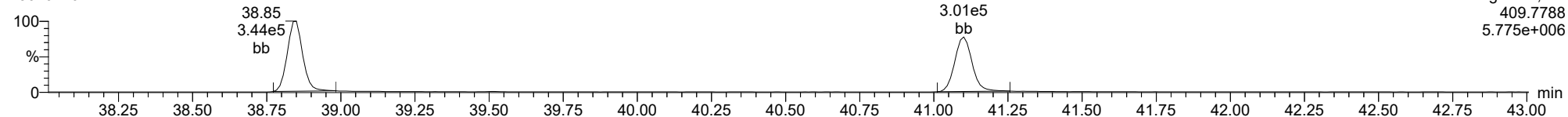
Total-heptafurans

23020110



Total-heptafurans

23020110



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

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

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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, 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	36.61	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

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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

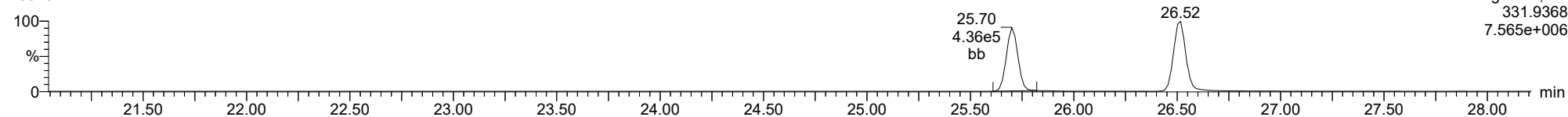
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1													

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

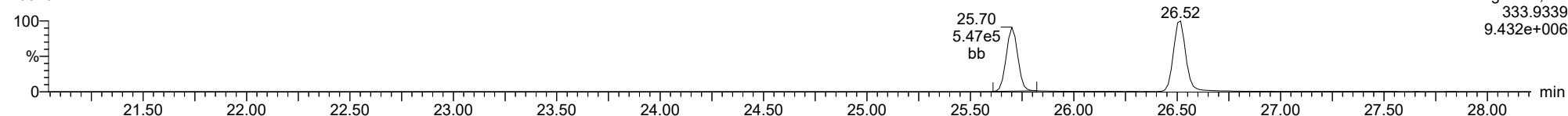
13C-1234-TCDD

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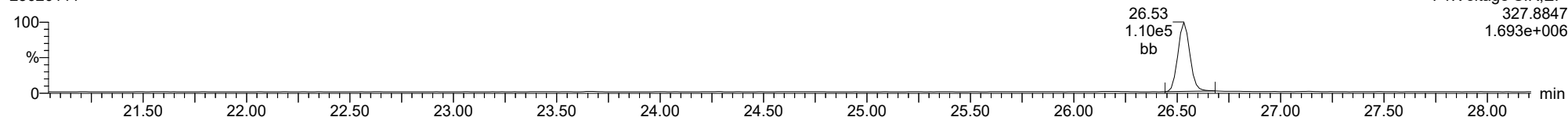
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37CL-2378-TCDD

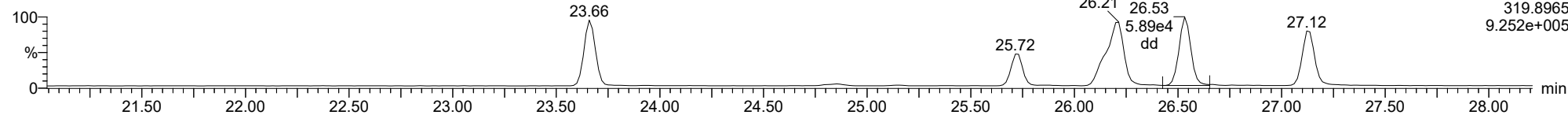
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

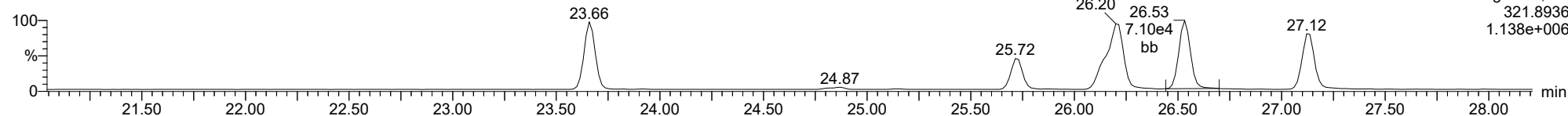
2378-TCDD

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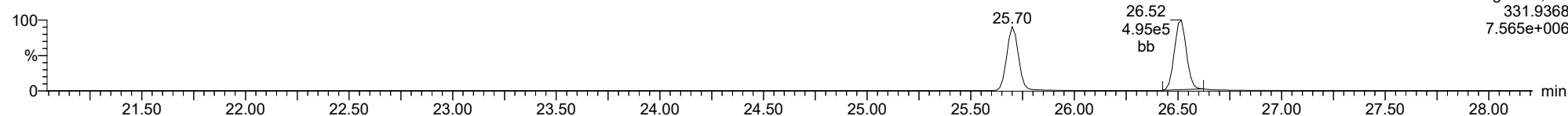
2378-TCDD

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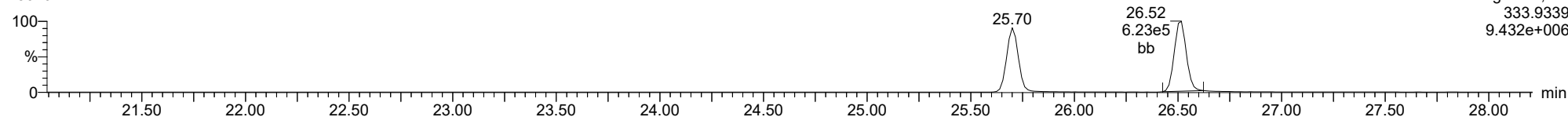
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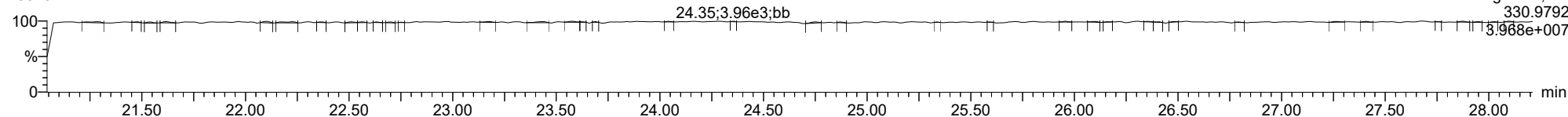
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FUNCTION1 PFK

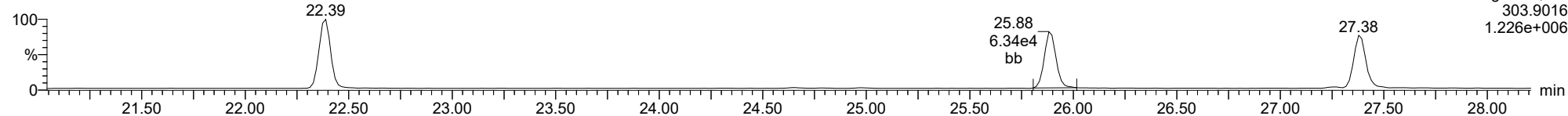
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

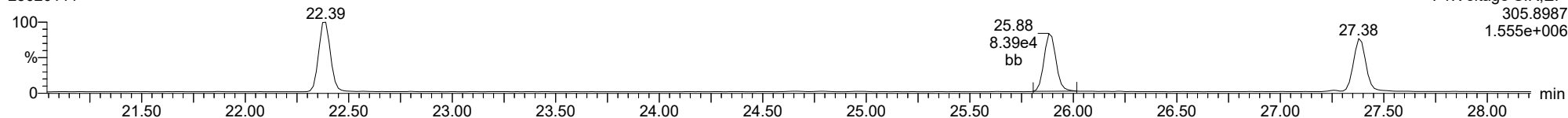
2378-TCDF

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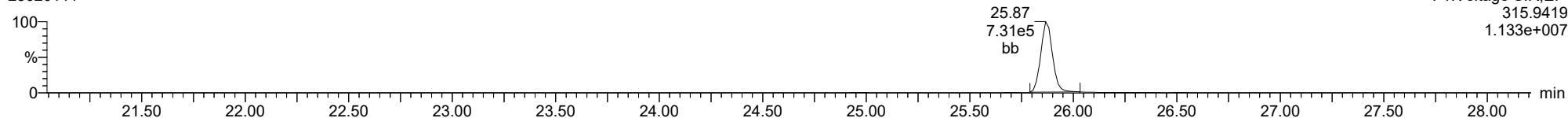
2378-TCDF

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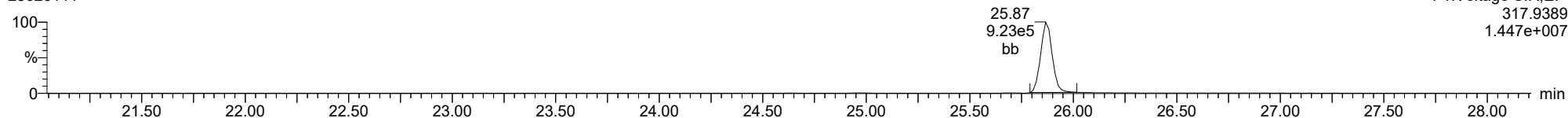
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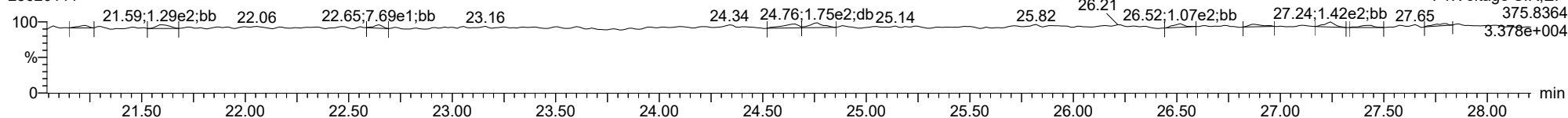
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FUNCTION1 HXCDPE

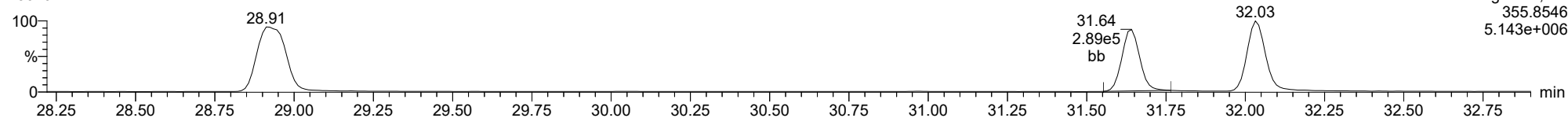
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

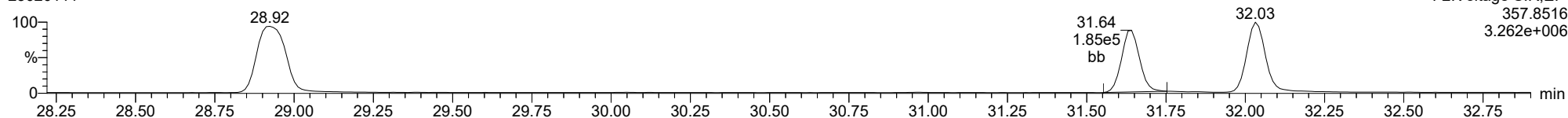
12378-PeCDD

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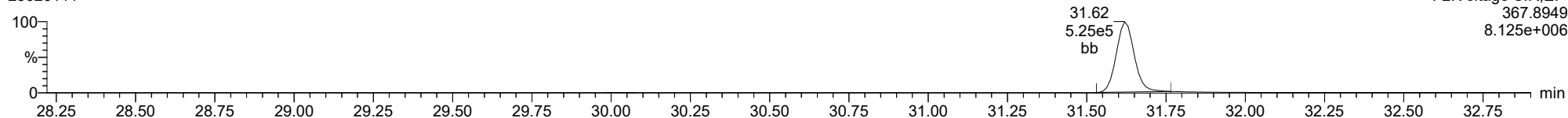
12378-PeCDD

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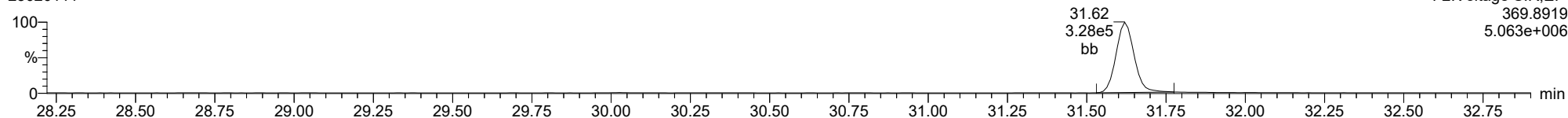
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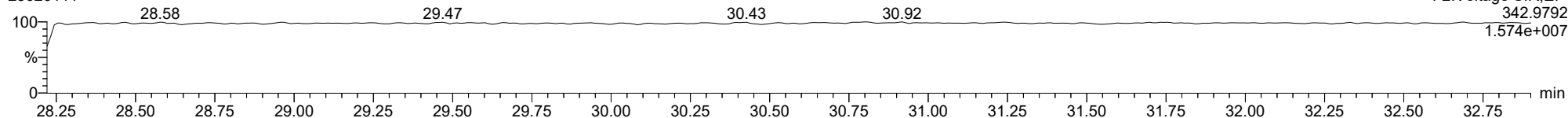
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FUNCTION2 PFK

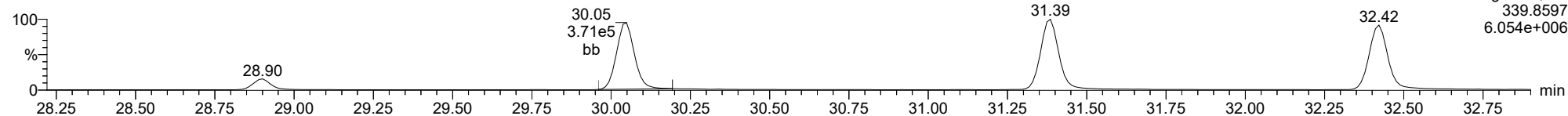
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

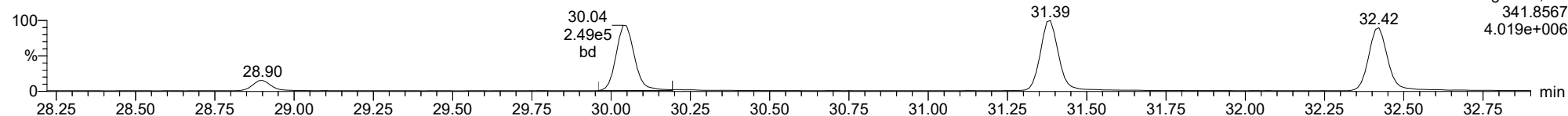
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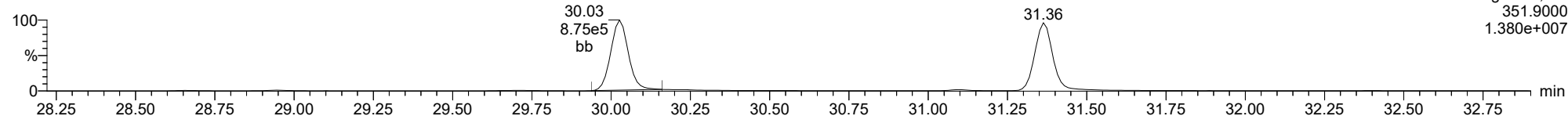
12378-PeCDF

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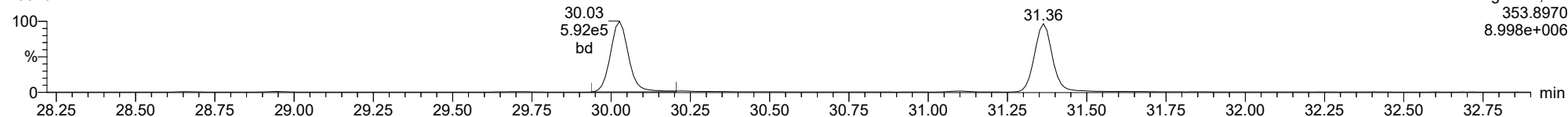
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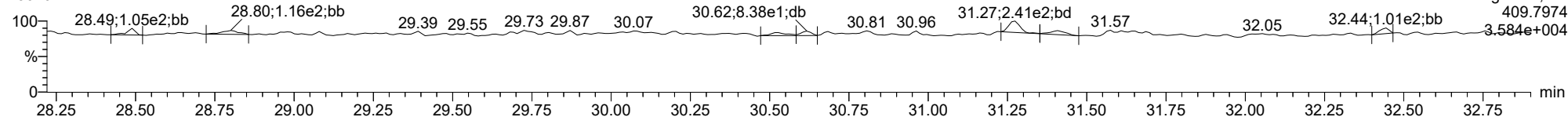
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23020111



FUNCTION2 HPCDPE

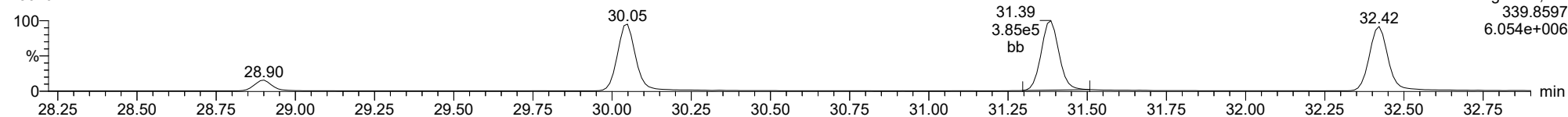
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

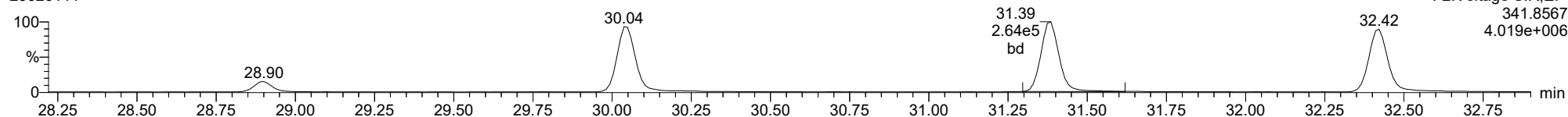
23478-PeCDF

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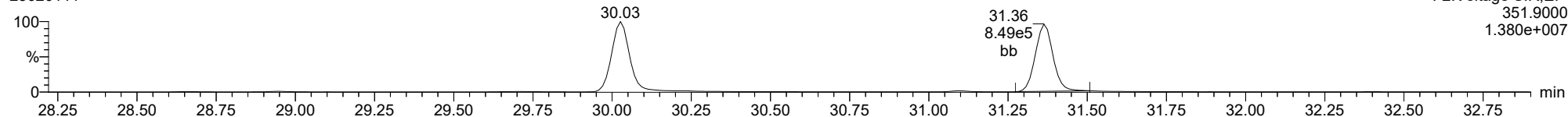
23478-PeCDF

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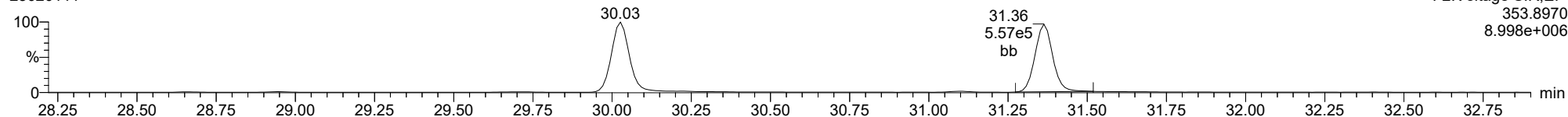
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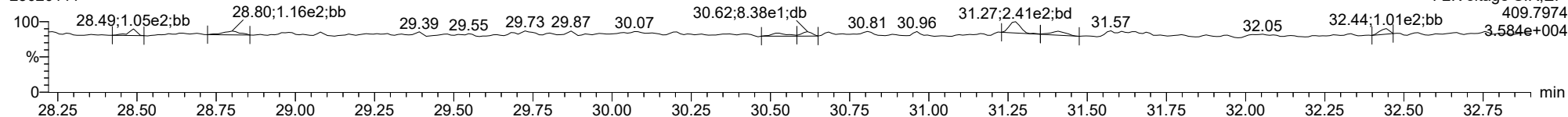
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FUNCTION2 HPCDPE

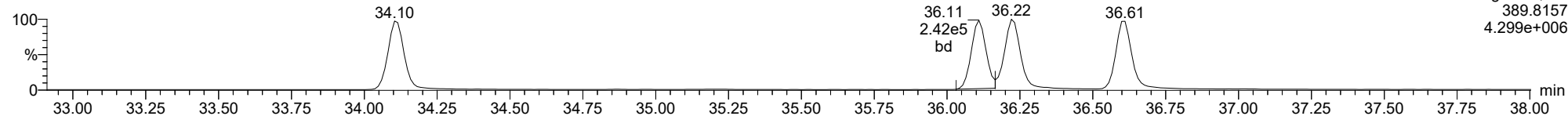
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

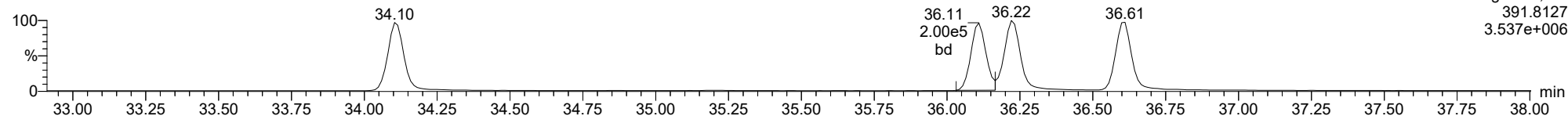
123478-HxCDD

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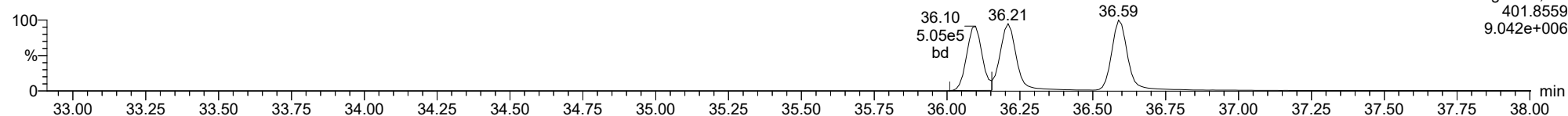
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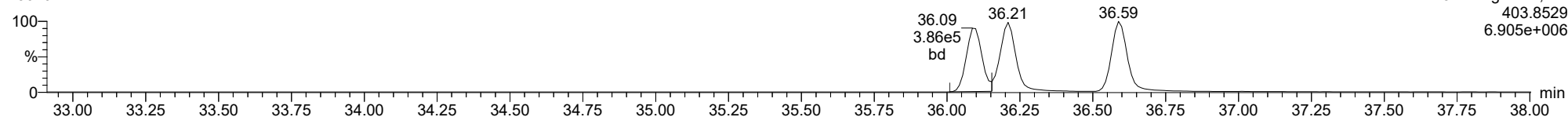
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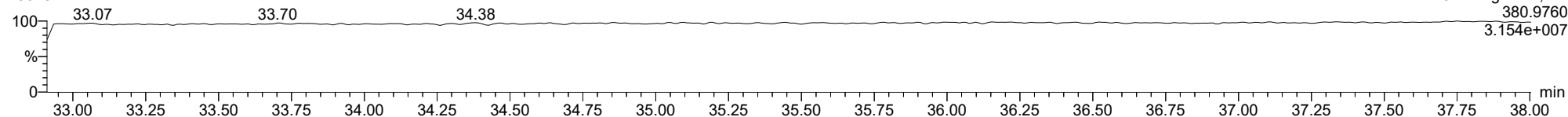
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23020111



FUNCTION3 PFK

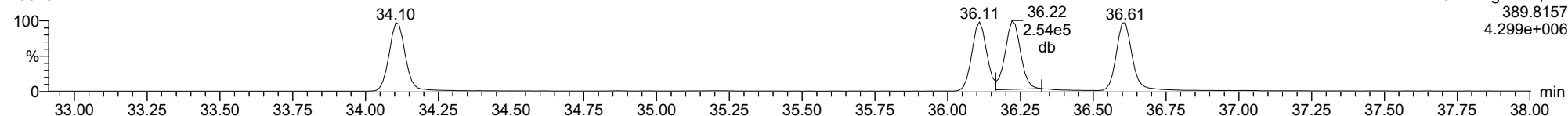
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

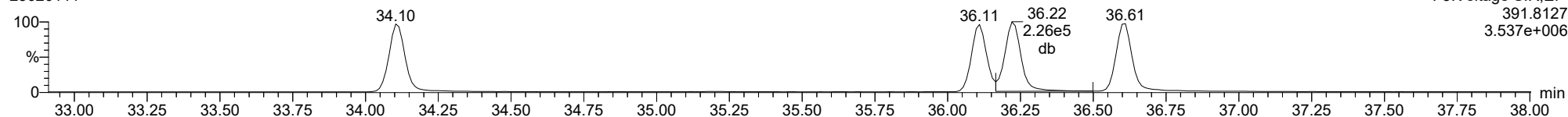
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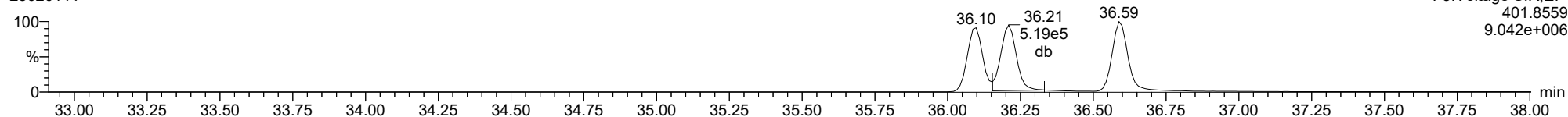
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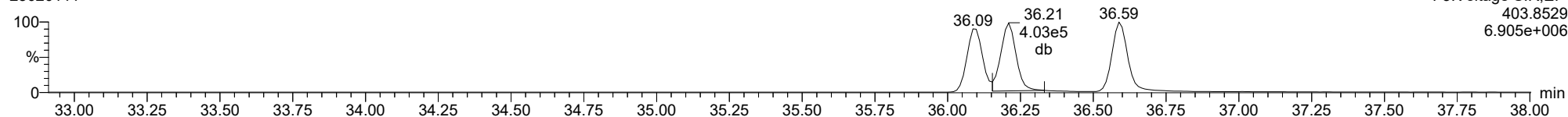
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13C-123678-HxCDD

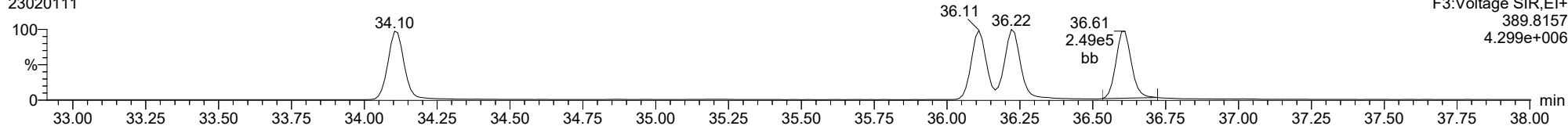
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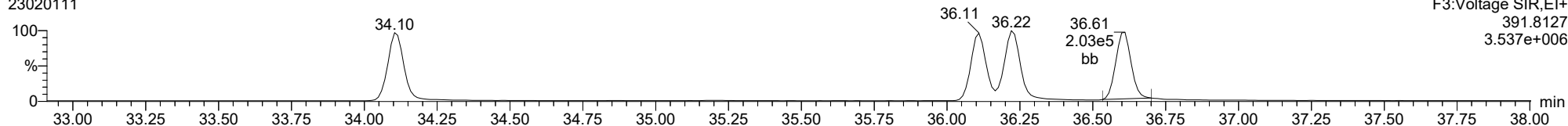
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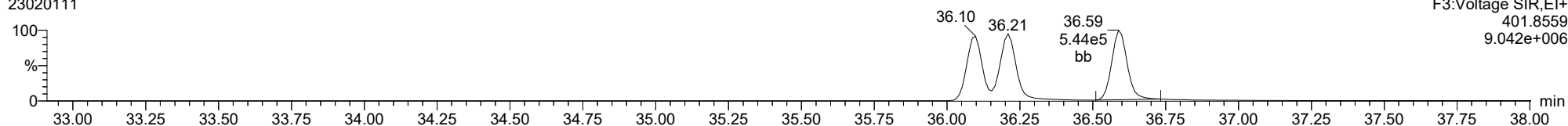
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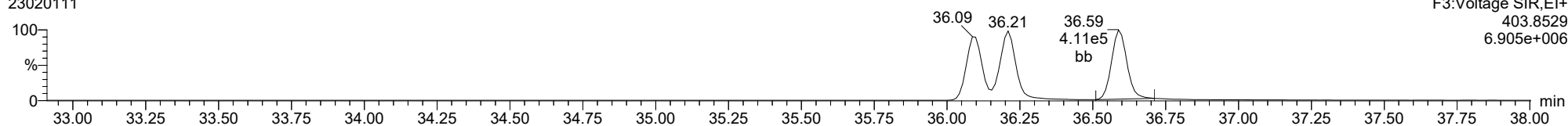
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13C-123789-HxCDD

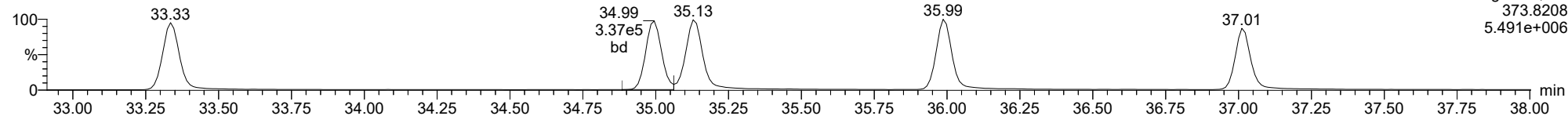
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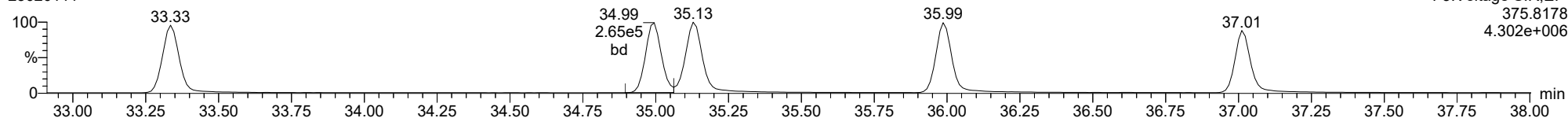
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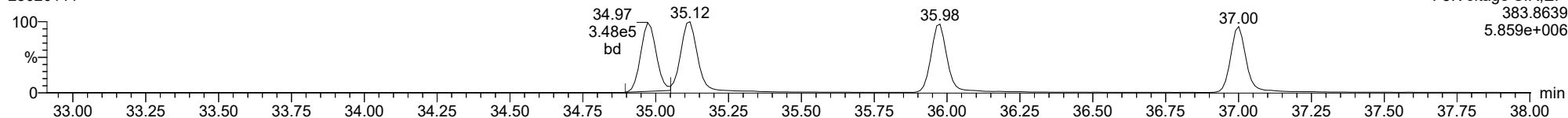
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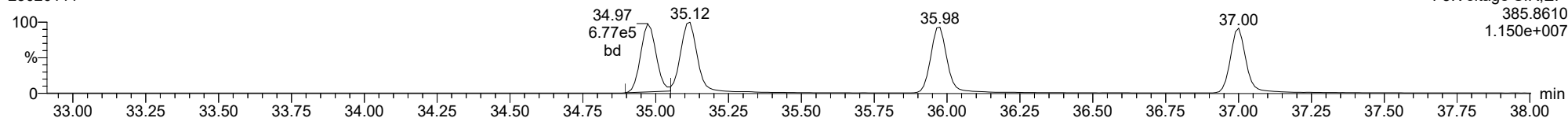
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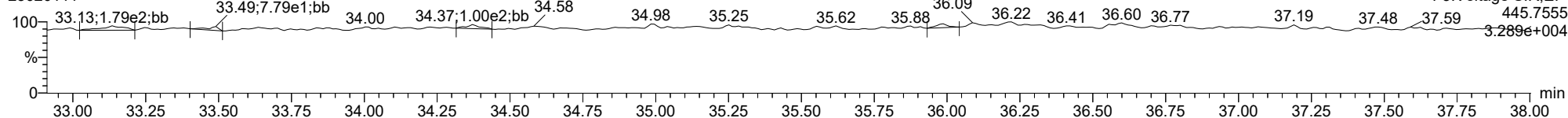
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FUNCTION3 OCDPE

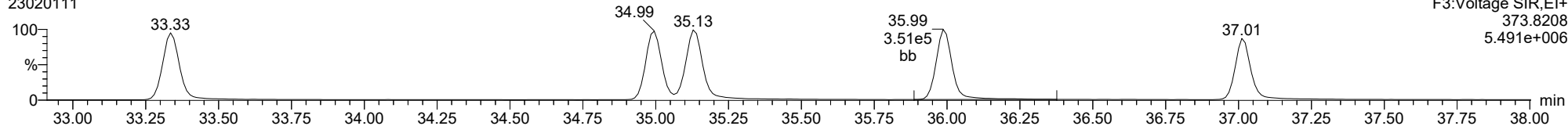
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

234678-HxCDF

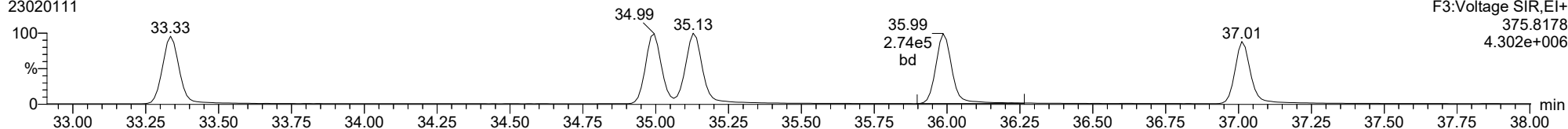
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F3:Voltage SIR,El+
373.8208
5.491e+006

234678-HxCDF

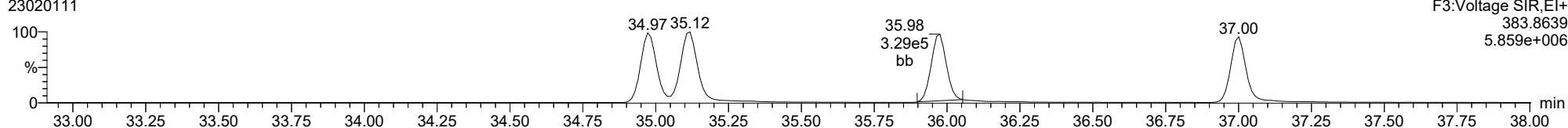
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F3:Voltage SIR,El+
375.8178
4.302e+006

13C-234678-HxCDF

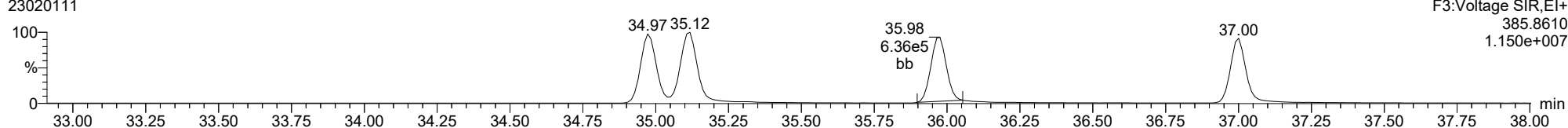
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F3:Voltage SIR,El+
383.8639
5.859e+006

13C-234678-HxCDF

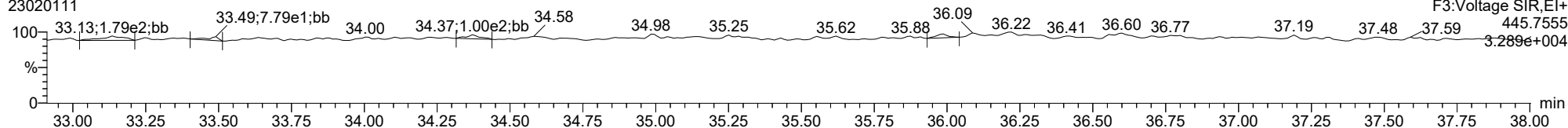
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F3:Voltage SIR,El+
385.8610
1.150e+007

FUNCTION3 OCDPE

23020111

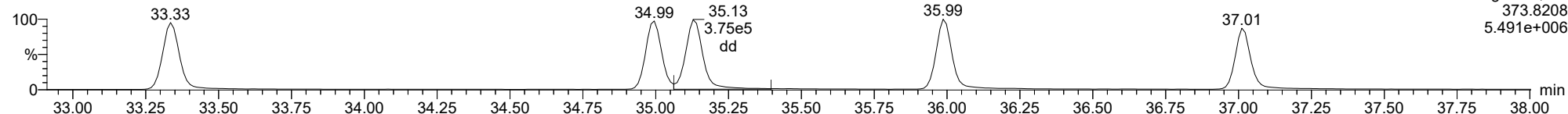


F3:Voltage SIR,El+
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3.289e+004

ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

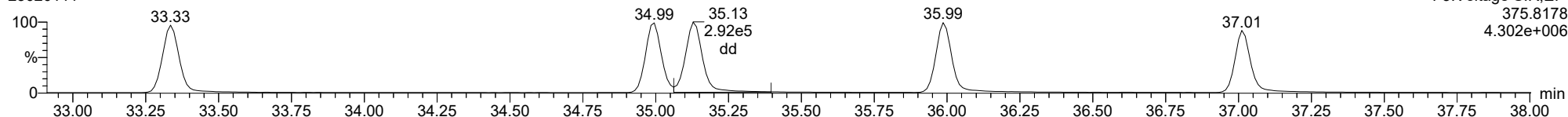
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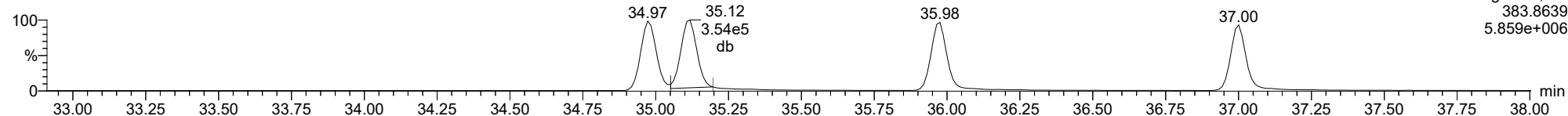
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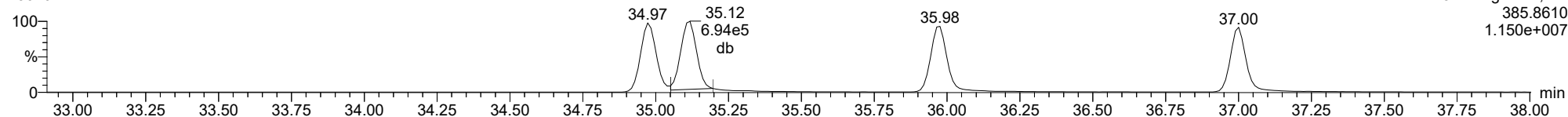
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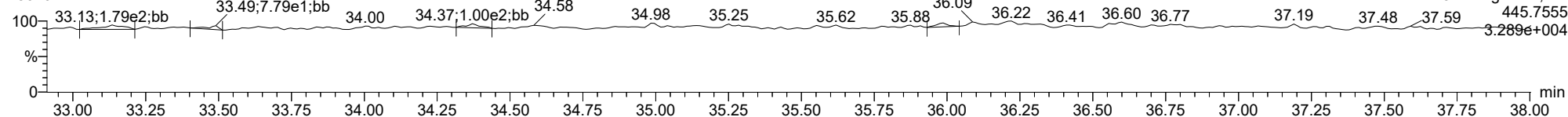
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FUNCTION3 OCDPE

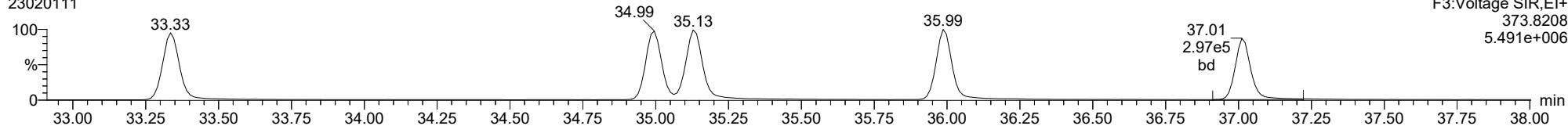
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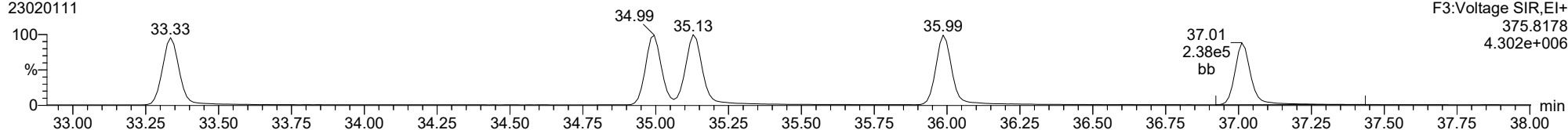
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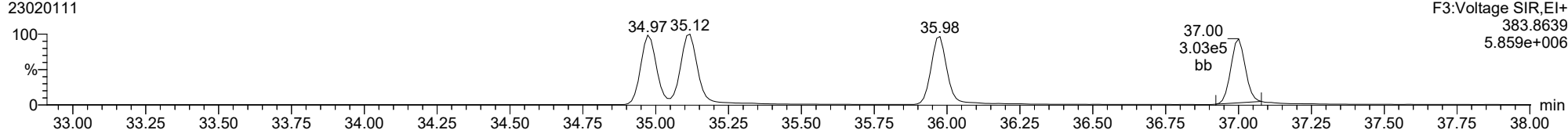
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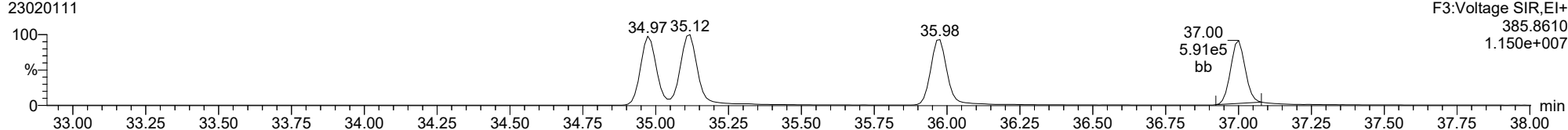
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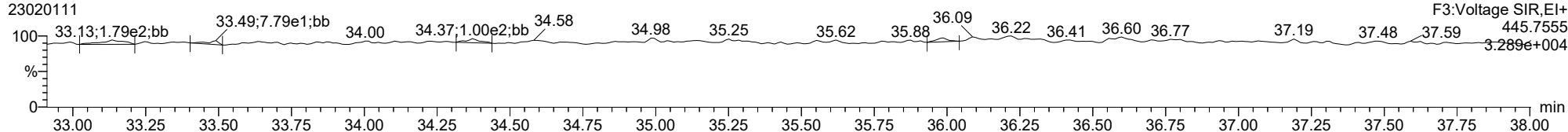
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FUNCTION3 OCDPE

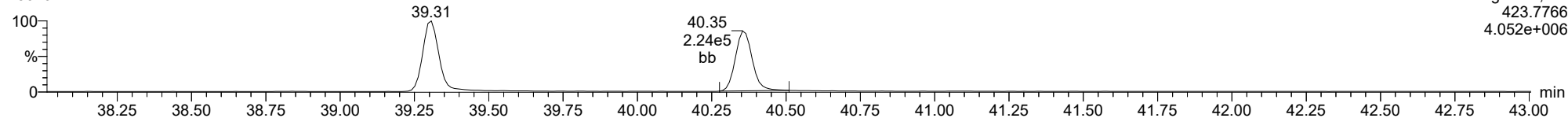
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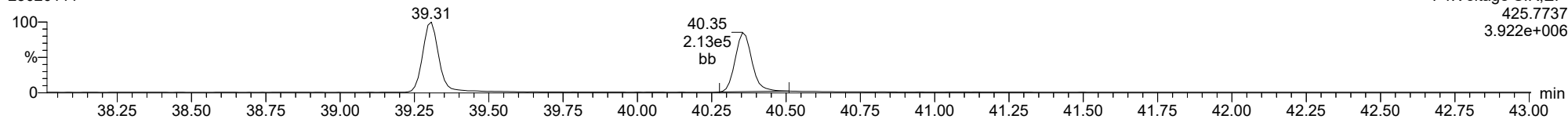
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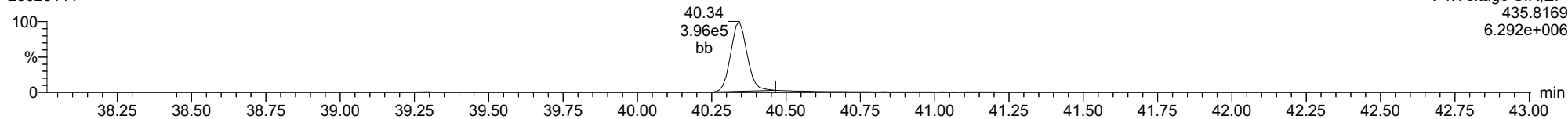
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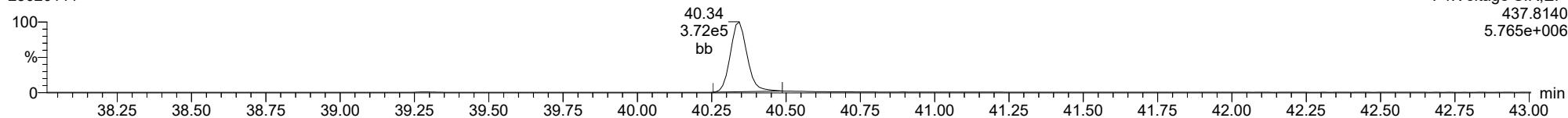
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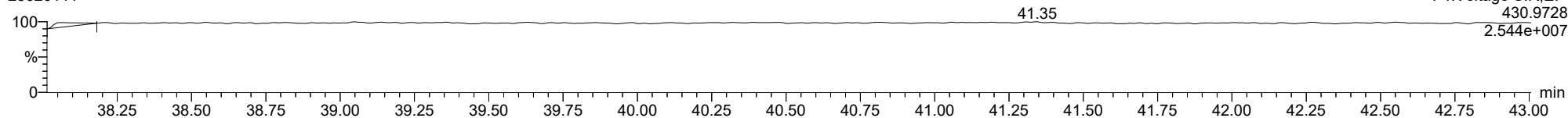
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FUNCTION4 PFK

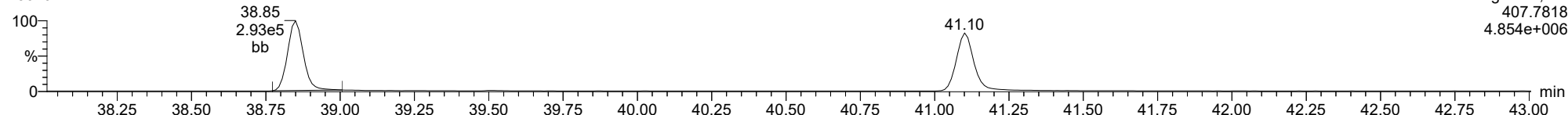
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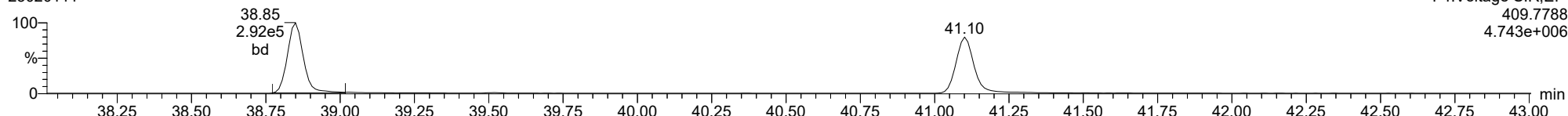
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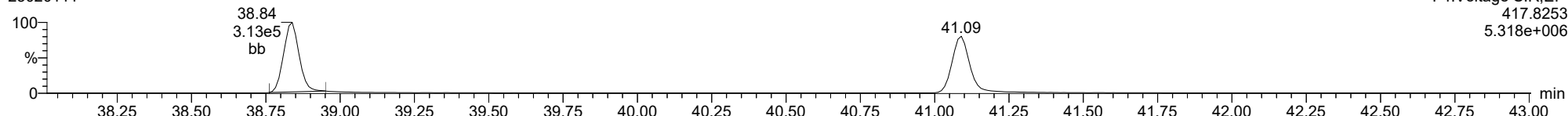
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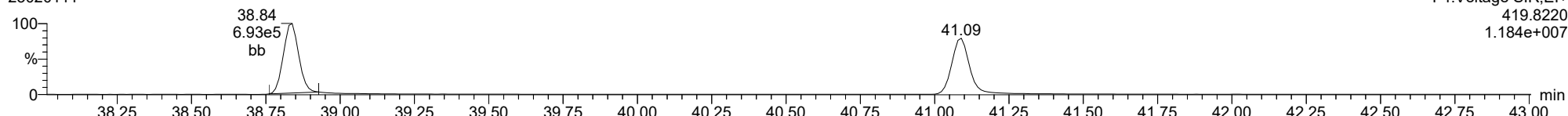
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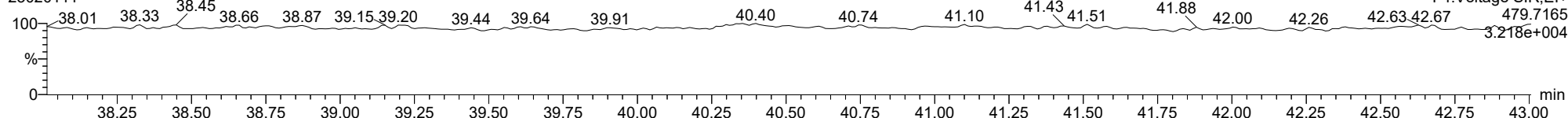
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FUNCTION4 NCDPE

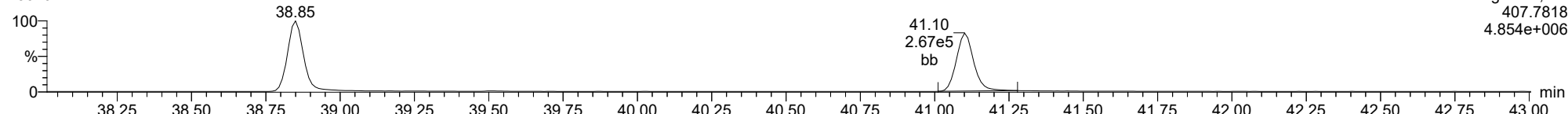
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ID: CS3R2, Name: 23020111, Date: 01-Feb-2023, Time: 21:12:31, Conditions: AUTOSPEC01, User: pk

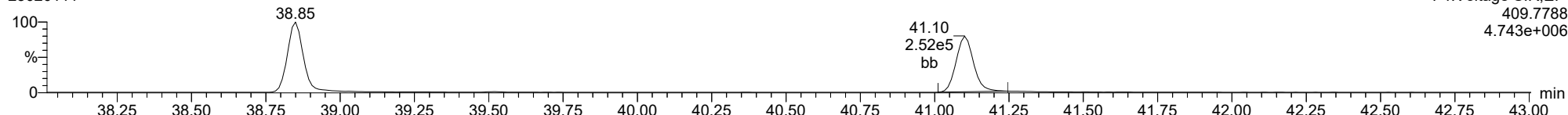
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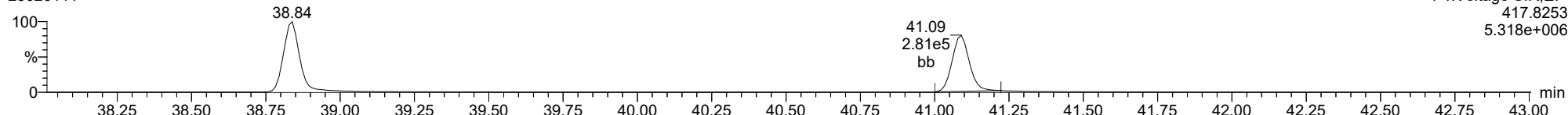
1234789-HpCDF

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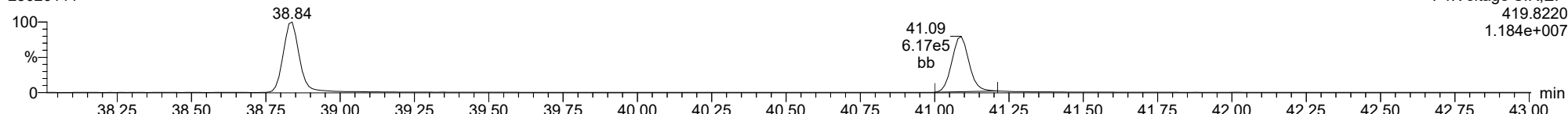
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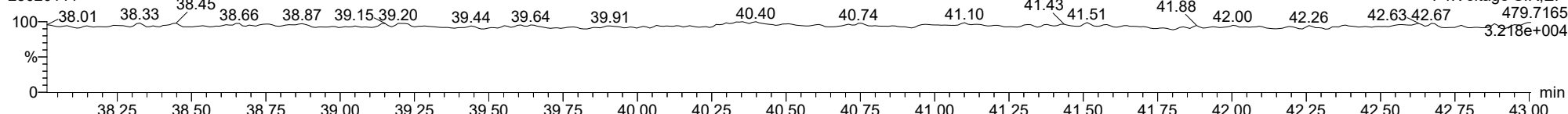
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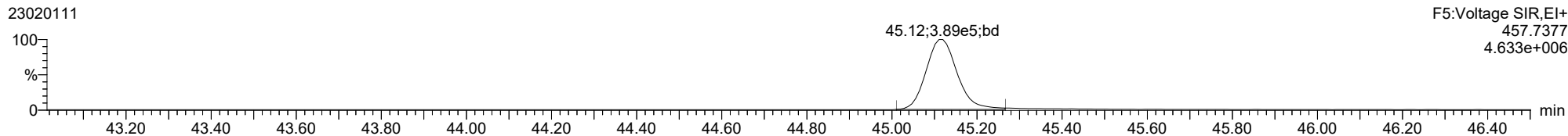
FUNCTION4 NCDPE

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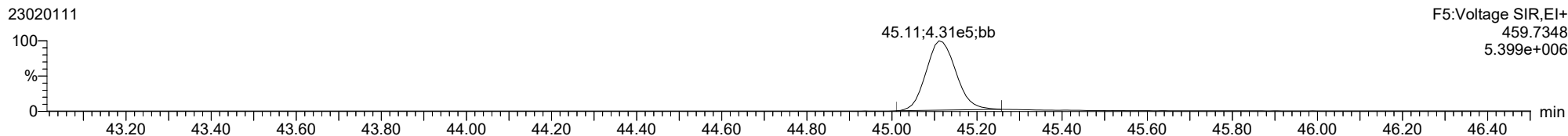


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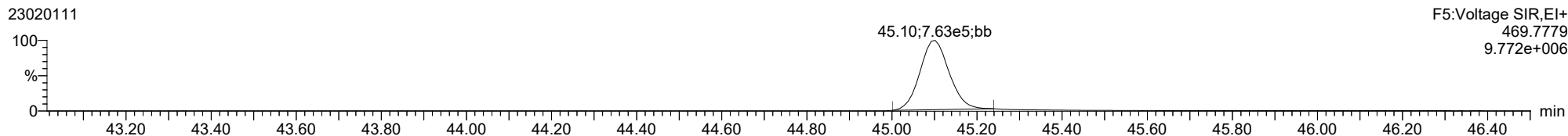
OCDD



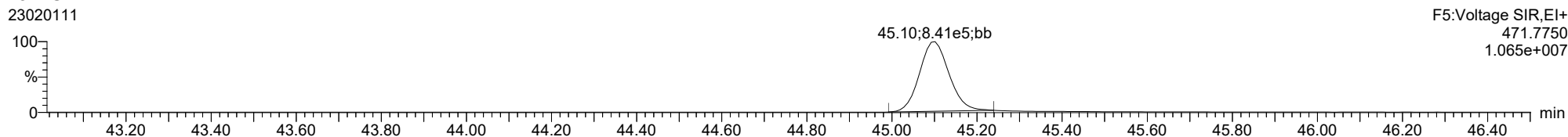
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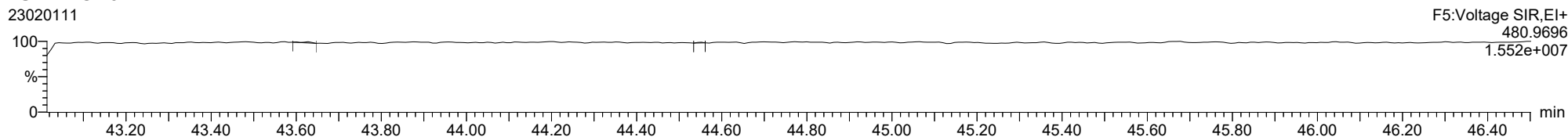
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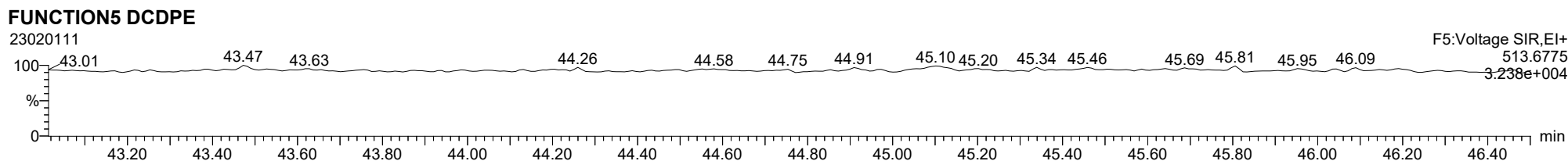
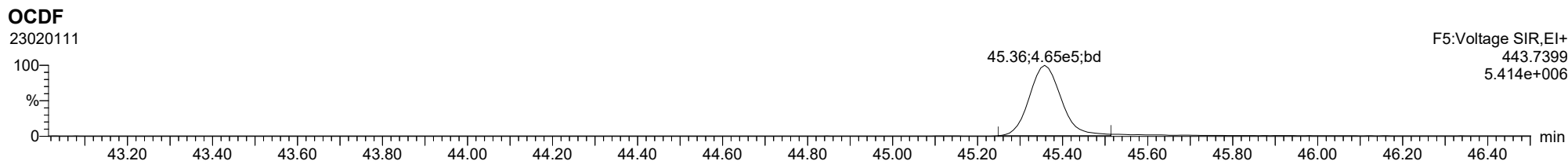
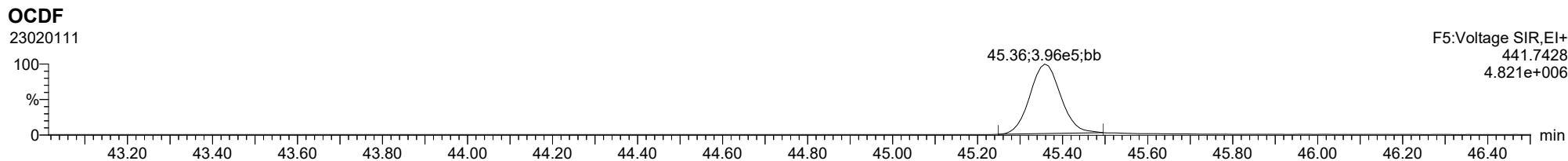
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FUNCTIONS PFK



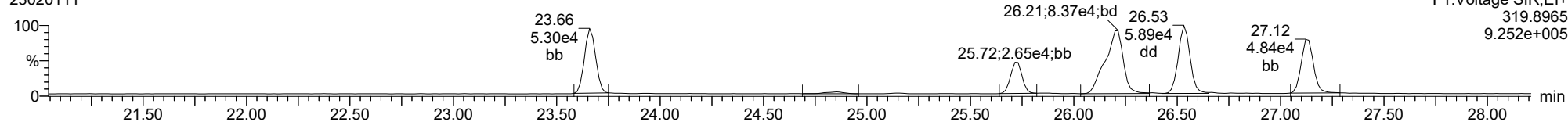
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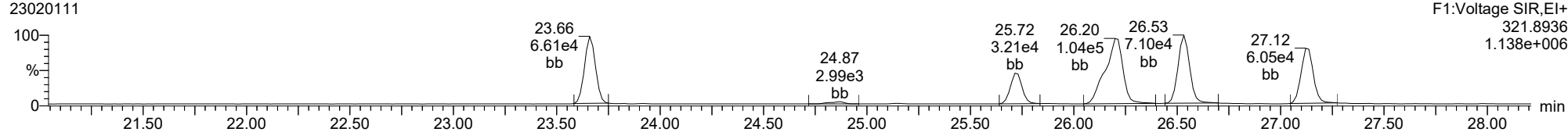
Total-tetraoxins

23020111



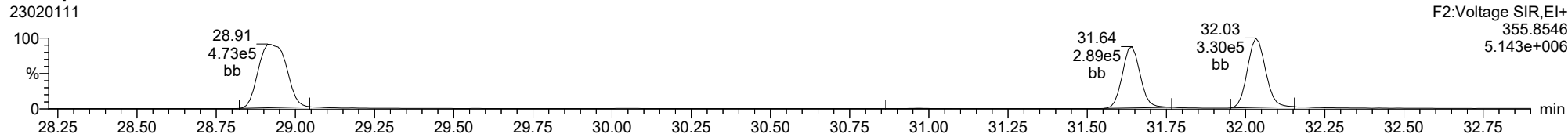
Total-tetraoxins

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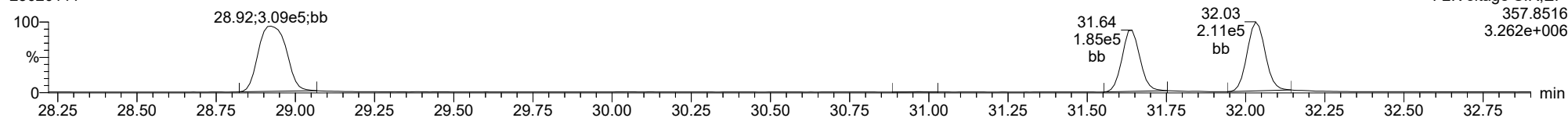
Total-pentadioxins

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Total-pentadioxins

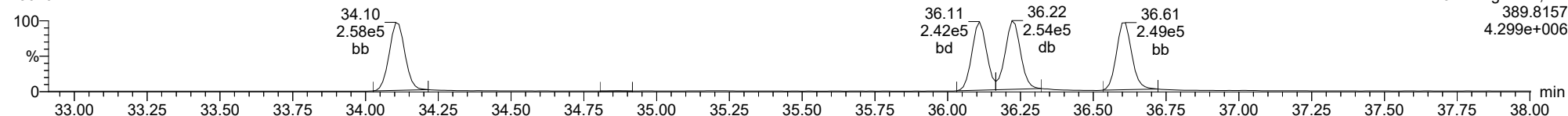
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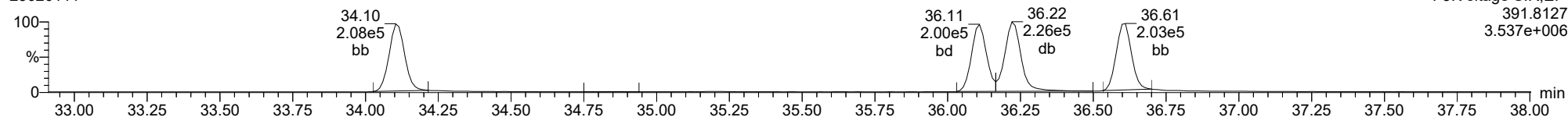
Total-hexadioxins

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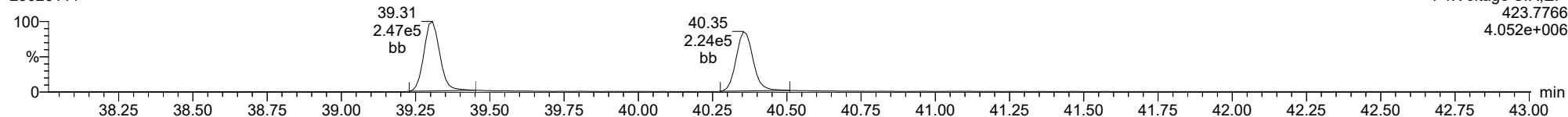
Total-hexadioxins

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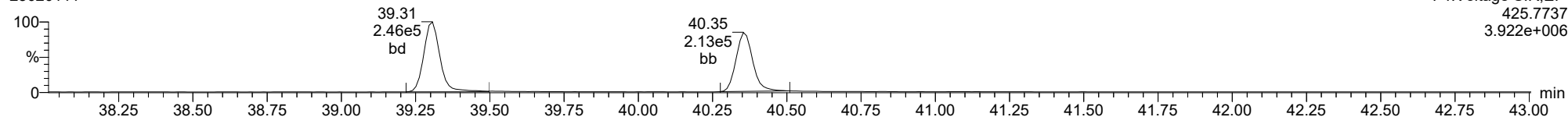
Total-heptadioxins

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Total-heptadioxins

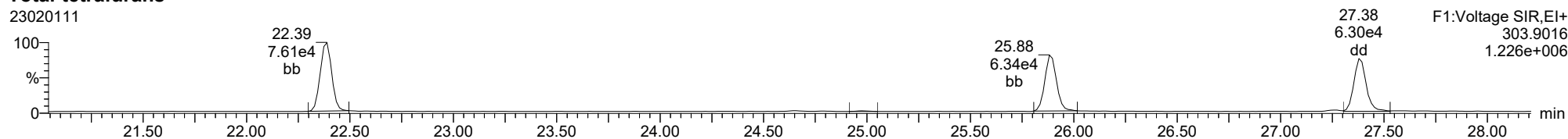
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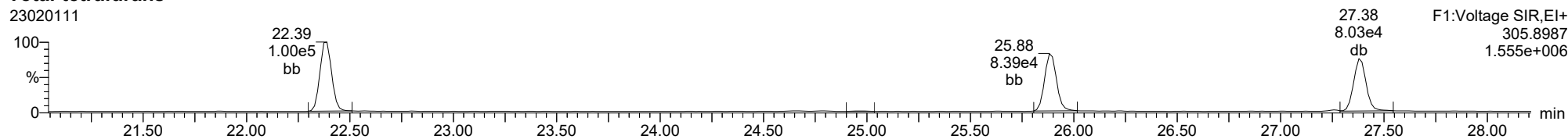
Total-tetrafurans

23020111



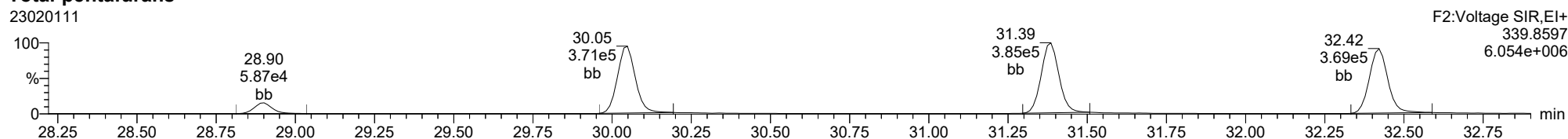
Total-tetrafurans

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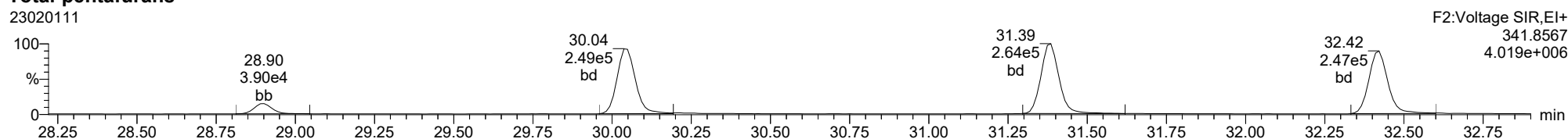
Total-pentafurans

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Total-pentafurans

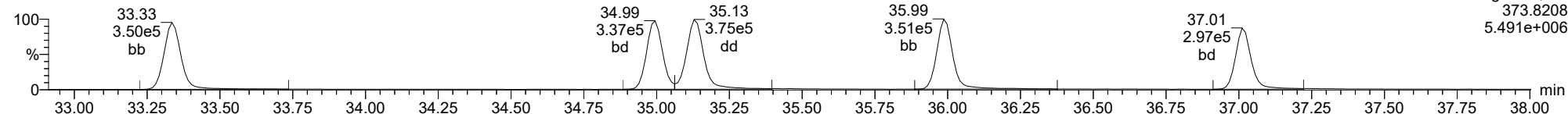
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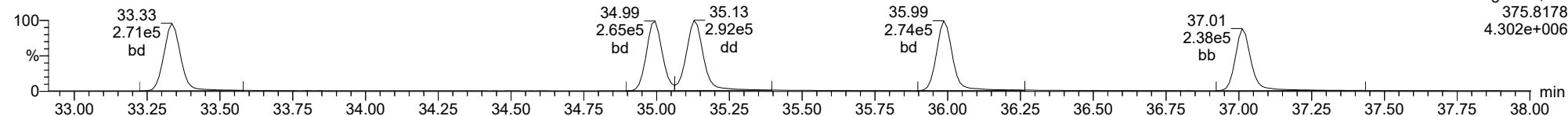
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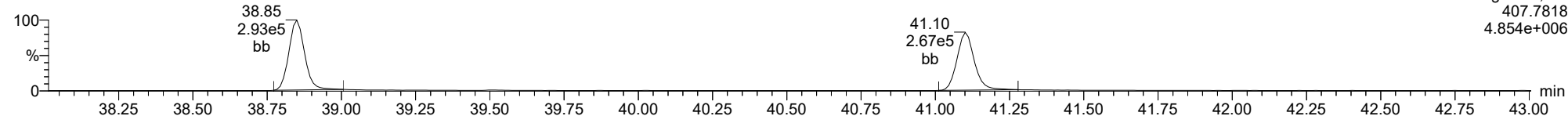
Total-hexafurans

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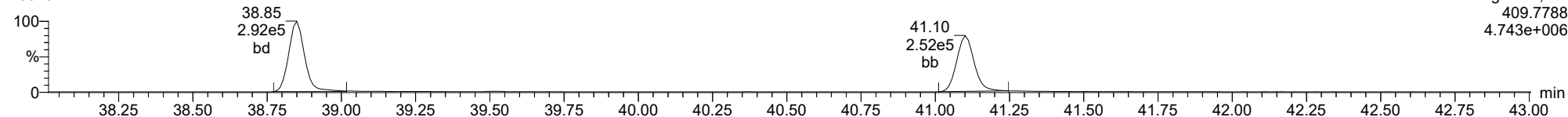
Total-heptafurans

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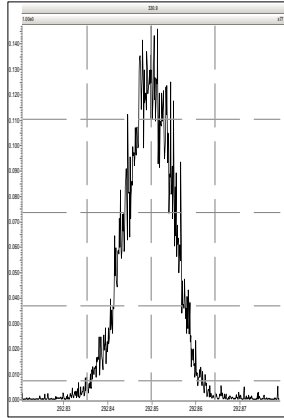


Total-heptafurans

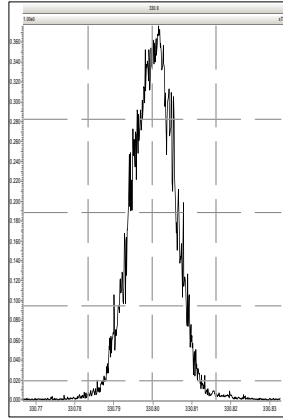
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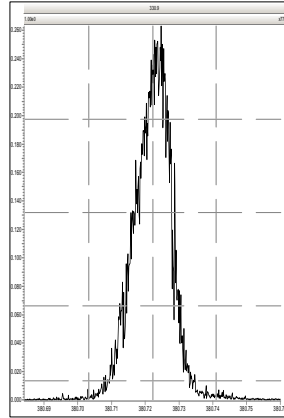
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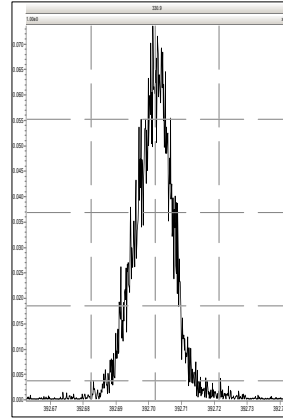
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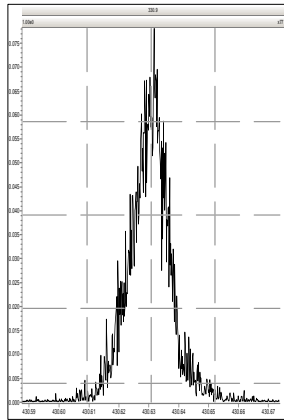
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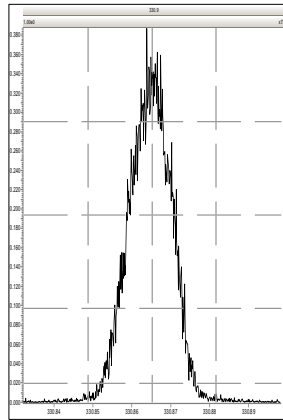
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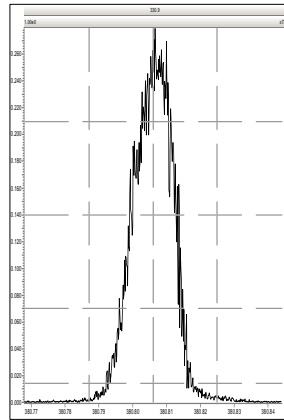
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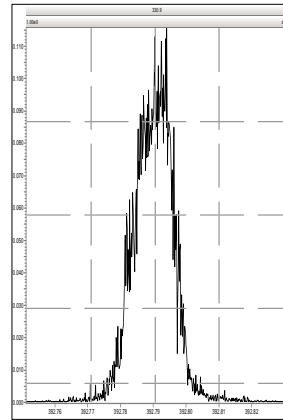
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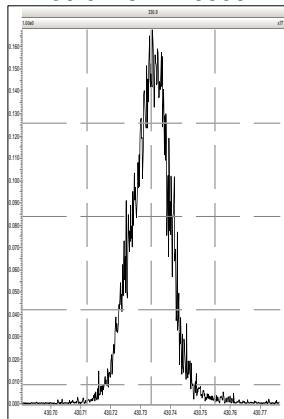
M 380.9760 R 16447



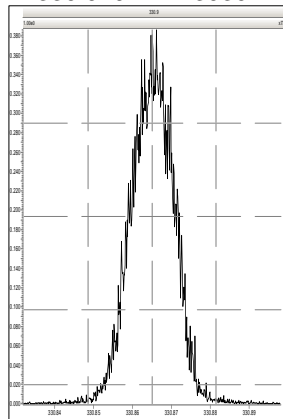
M 392.9760 R 16556



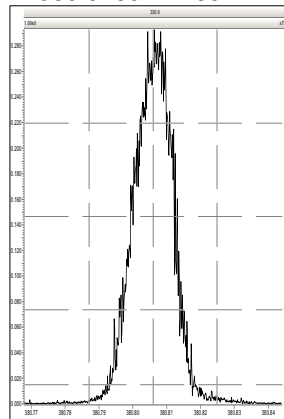
M 430.9728 R 15530



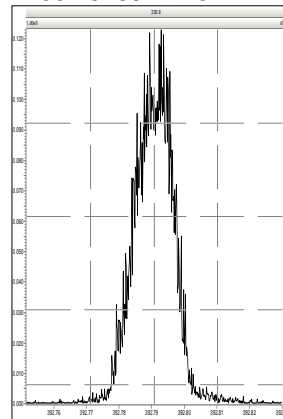
M 330.9792 R 13930



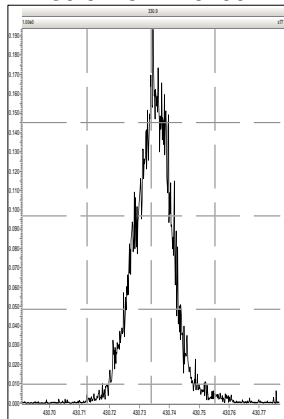
M 380.9760 R 16041



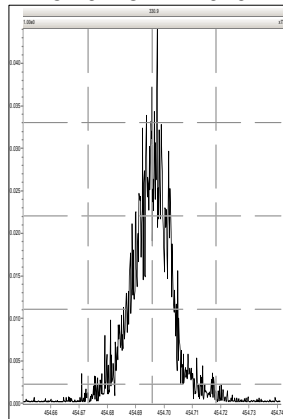
M 392.9760 R 15772



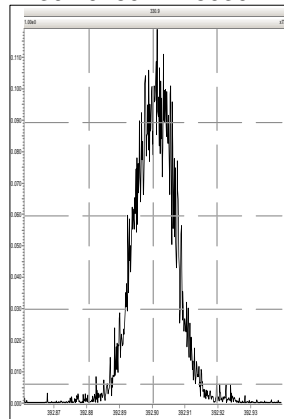
M 430.9728 R 15290



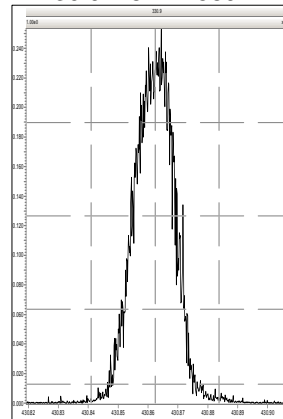
M 454.9728 R 14970



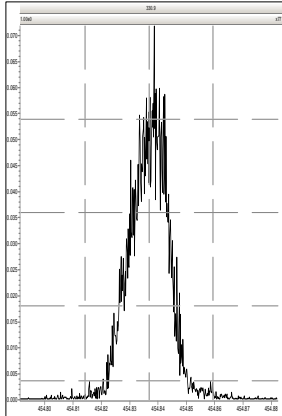
M 392.9760 R 15030



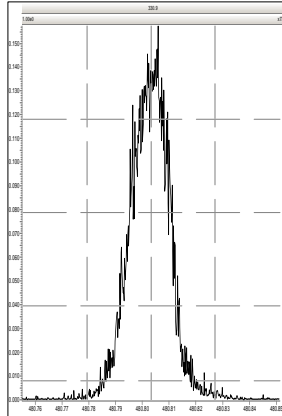
M 430.9728 R 15892



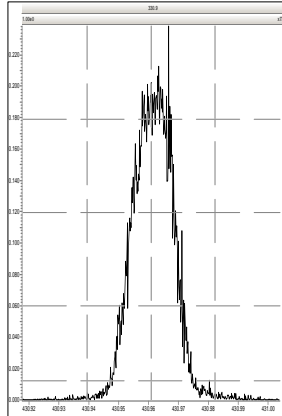
M 454.9728 R 15556



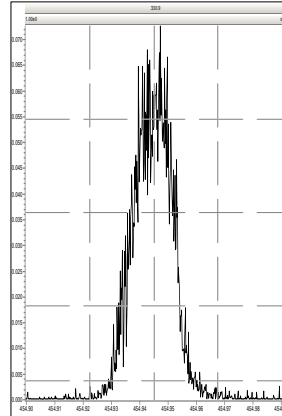
M 480.9696 R 15064



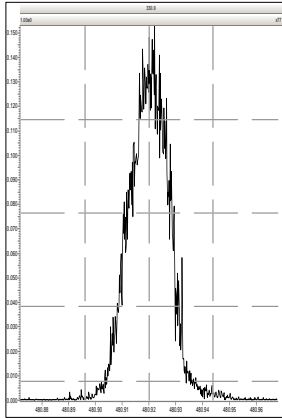
M 430.9728 R 15337



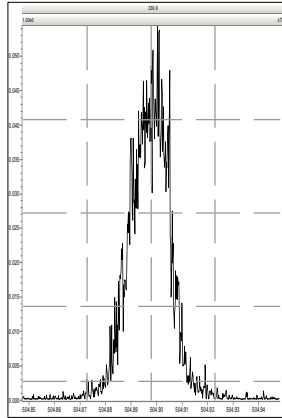
M 454.9728 R 16464



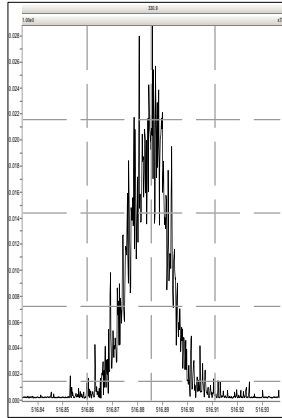
M 480.9696 R 15156



M 504.9696 R 14748



M 516.9697 R 15772

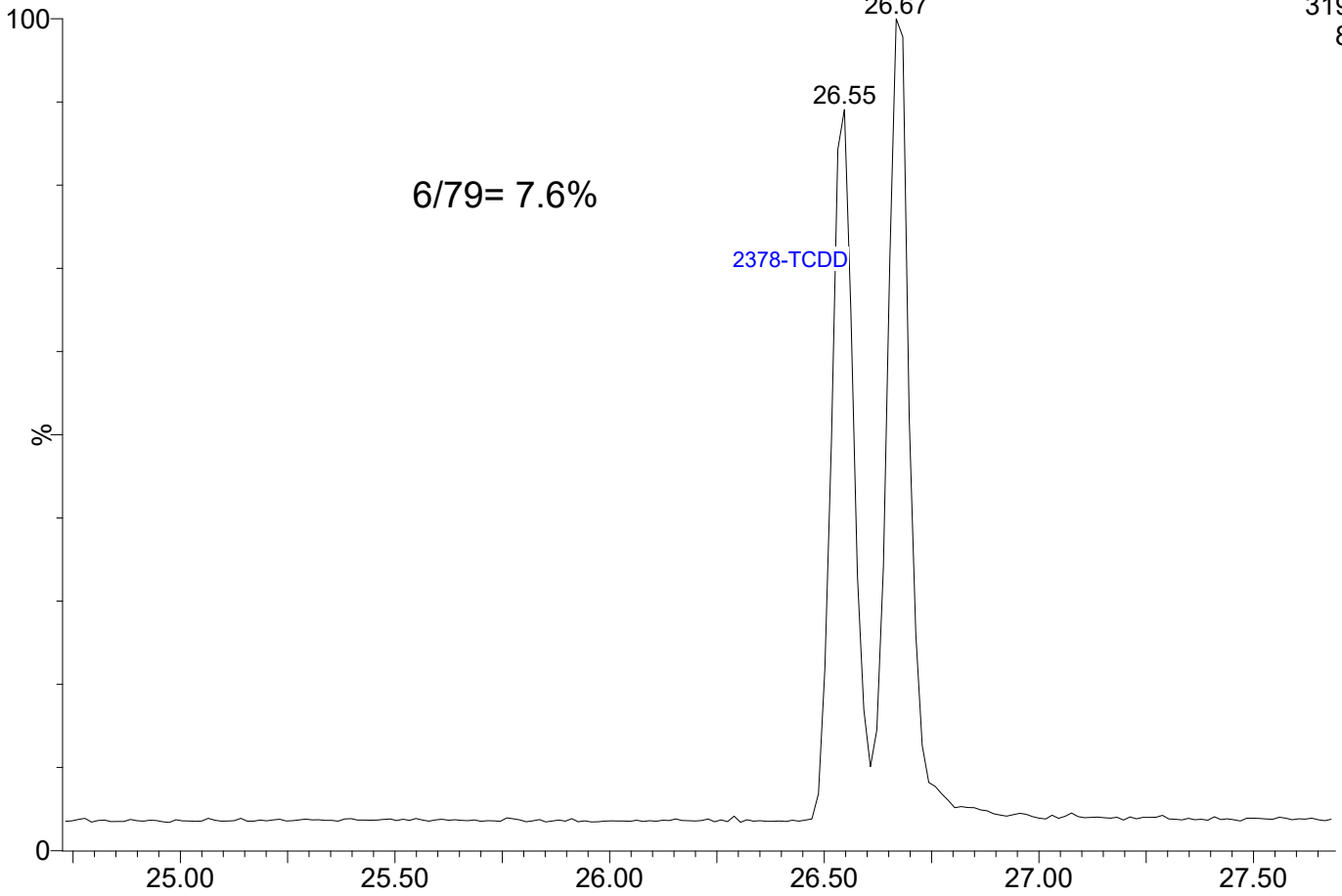


23020112

1: Voltage SIR 15 Channels EI+

319.8965

8.53e5

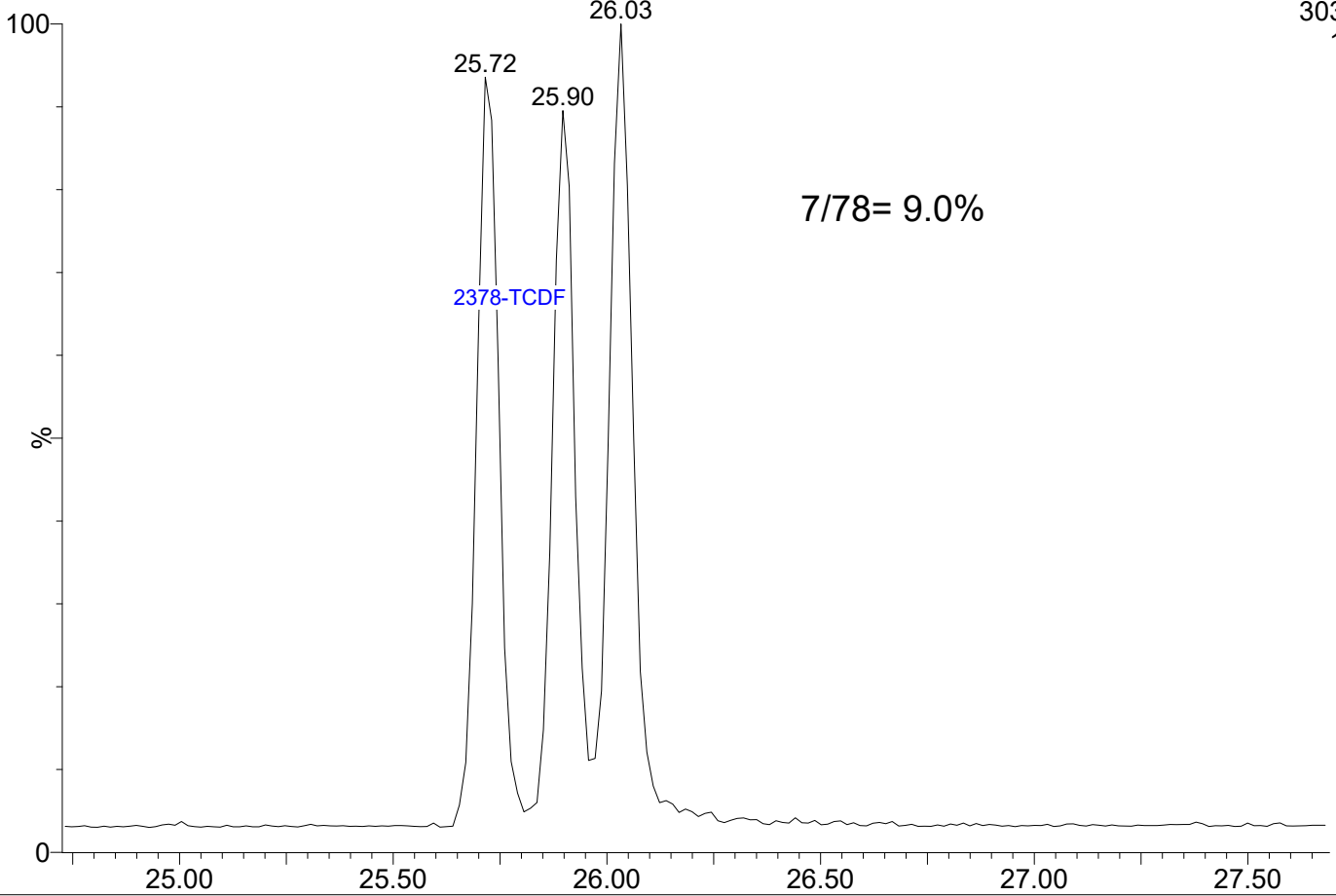


23020112

1: Voltage SIR 15 Channels EI+

303.9016

1.00e6





SECOND-SOURCE CALIBRATION VERIFICATION
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

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: 22L0473

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: 22L0473

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



INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

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>22L0473</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: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020702

Calibration Date: 02/01/2023

Sequence: SLB0072

Injection Date: 02/07/23

Lab Sample ID: SLB0072-ICV1

Injection Time: 09:25

Sequence Name: CS3T1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.53	0.8760604	0.8351157		-4.7	+/-16
2,3,7,8-TCDD	A	10.000	9.18	1.2363600	1.1355510		-8.2	+/-22
1,2,3,7,8-PeCDF	A	50.000	48.2	0.8446540	0.8146095		-3.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	49.0	0.9111780	0.8931050		-2.0	+/-18
1,2,3,7,8-PeCDD	A	50.000	49.9	1.0866850	1.0837000		-0.3	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	46.3	1.1816860	1.0940110		-7.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	44.3	1.2480480	1.1059160		-11.4	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	46.1	1.2288500	1.1319670		-7.9	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	46.0	1.1865370	1.0911970		-8.0	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	48.7	0.9869672	0.9622623		-2.5	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	45.6	1.0207220	0.9313442		-8.8	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	49.2	0.9854780	0.9696455		-1.6	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	46.6	1.2041190	1.1231430		-6.7	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.9	1.1653050	1.1169660		-4.1	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	45.9	1.2525690	1.1507260		-8.1	+/-14
OCDF	A	100.00	85.8	1.1862640	1.0174050		-14.2	+/-37
OCDD	A	100.00	94.8	1.1026670	1.0450010		-5.2	+/-21
13C12-2,3,7,8-TCDF	A	100.00	88.9	1.7680590	1.5714363		-11.1	+/-29
13C12-2,3,7,8-TCDD	A	100.00	104	1.1029470	1.1480541		4.1	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	98.1	1.5271250	1.4984317		-1.9	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	97.9	1.4662840	1.4361152		-2.1	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	99.5	0.9141518	0.9092687		-0.5	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	91.1	1.0536610	0.9602116		-8.9	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	93.8	1.0799530	1.0127282		-6.2	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	93.2	1.0143260	0.9456075		-6.8	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	91.3	0.9279333	0.8476312		-8.7	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	101	0.9329336	0.9378135		0.5	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	99.9	0.9646272	0.9640301		-0.06	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	83.2	1.0360890	0.8618699		-16.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDD	A	100.00	84.7	0.9049372	0.7665857		-15.3	+/-23

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0473</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>23020702</u>	Calibration Date:	<u>02/01/2023</u>
Sequence:	<u>SLB0072</u>	Injection Date:	<u>02/07/23</u>
Lab Sample ID:	<u>SLB0072-ICV1</u>	Injection Time:	<u>09:25</u>
Sequence Name:	<u>CS3T1</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	87.4	0.7819773	0.6837124		-12.6	+/-28
13C12-OCDD	A	200.00	163	0.7882343	0.6439082		-18.3	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.87	1.2334500	1.0937558		-11.3	

* Values outside of QC limits

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, 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	25.882	1.001	2.728e4	3.737e4	0.876	0.730	0.770	1068	1145	4.08e5	5.54e5	382.4	484.0	NO	bb	bb	9.533
12378-PeCDF	30.048	1.001	1.810e5	1.197e5	0.845	1.513	1.550	1202	1806	2.77e6	1.84e6	2301.8	1017.7	NO	bb	bb	48.221
23478-PeCDF	31.385	1.001	1.901e5	1.258e5	0.911	1.511	1.550	1202	1806	2.96e6	1.95e6	2467.3	1077.2	NO	bb	bb	49.008
123478-HxCDF	34.995	1.001	1.715e5	1.385e5	1.182	1.238	1.240	1290	1031	2.75e6	2.18e6	2128.7	2115.1	NO	bd	bd	46.290
234678-HxCDF	35.987	1.000	1.754e5	1.404e5	1.229	1.249	1.240	1290	1031	2.75e6	2.24e6	2135.6	2172.0	NO	bb	bd	46.058
123678-HxCDF	35.129	1.000	1.836e5	1.468e5	1.248	1.251	1.240	1290	1031	2.74e6	2.19e6	2121.8	2121.2	NO	db	dd	44.306
123789-HxCDF	37.012	1.000	1.506e5	1.224e5	1.187	1.231	1.240	1290	1031	2.32e6	1.89e6	1798.5	1828.9	NO	bd	bd	45.982
1234678-HpCDF	38.850	1.000	1.452e5	1.405e5	1.204	1.033	1.050	1630	1318	2.43e6	2.31e6	1487.5	1753.4	NO	bd	bd	46.638
1234789-HpCDF	41.100	1.000	1.275e5	1.252e5	1.165	1.018	1.050	1630	1318	1.84e6	1.83e6	1130.9	1389.0	NO	bd	bb	47.926
OCDF	45.358	1.006	1.826e5	2.040e5	1.186	0.895	0.890	838	1256	2.08e6	2.38e6	2474.8	1893.5	NO	bd	bd	85.766
2378-TCDD	26.532	1.001	2.806e4	3.617e4	1.236	0.776	0.770	1281	782	4.29e5	5.43e5	335.2	695.2	NO	bd	bb	9.185
12378-PeCDD	31.631	1.000	1.467e5	9.606e4	1.087	1.527	1.550	1745	1329	2.33e6	1.49e6	1338.0	1122.6	NO	bb	bb	49.863
123478-HxCDD	36.098	1.000	1.462e5	1.201e5	0.987	1.218	1.240	1716	1243	2.39e6	1.98e6	1391.4	1589.0	NO	bd	bd	48.748
123678-HxCDD	36.221	1.001	1.452e5	1.197e5	1.021	1.213	1.240	1716	1243	2.48e6	2.07e6	1444.5	1662.2	NO	db	db	45.622
123789-HxCDD	36.599	1.011	1.493e5	1.228e5	0.985	1.215	1.240	1716	1243	2.46e6	2.03e6	1431.5	1636.5	NO	bb	bb	49.197
1234678-HpCDD	40.354	1.000	1.189e5	1.133e5	1.253	1.049	1.050	1534	1123	1.77e6	1.70e6	1154.5	1513.3	NO	bd	bd	45.935
OCDD	45.120	1.000	1.835e5	2.136e5	1.103	0.859	0.890	1337	2084	2.19e6	2.54e6	1636.7	1216.9	NO	bb	bd	94.770
13C-2378-TCDF	25.867	1.006	3.425e5	4.316e5	1.768	0.794	0.770	1771	1388	5.25e6	6.65e6	2964.7	4790.3	NO	bb	bb	88.879
13C-12378-PeCDF	30.026	1.168	4.470e5	2.912e5	1.527	1.535	1.550	1472	1474	6.96e6	4.56e6	4725.7	3092.7	NO	bb	bb	98.121
13C-23478-PeCDF	31.363	1.220	4.281e5	2.794e5	1.466	1.532	1.550	1472	1474	6.60e6	4.28e6	4480.8	2905.5	NO	bb	bb	97.942
13C-123478-HxCDF	34.973	0.956	1.915e5	3.752e5	1.054	0.511	0.510	1356	1868	3.06e6	6.08e6	2256.2	3256.0	NO	bd	bd	91.131
13C-123678-HxCDF	35.118	0.960	1.997e5	3.979e5	1.080	0.502	0.510	1356	1868	3.09e6	6.13e6	2275.0	3279.5	NO	db	db	93.775
13C-234678-HxCDF	35.976	0.983	1.887e5	3.693e5	1.014	0.511	0.510	1356	1868	3.19e6	6.22e6	2348.6	3328.5	NO	bb	bb	93.225
13C-123789-HxCDF	37.000	1.011	1.673e5	3.329e5	0.928	0.503	0.510	1356	1868	2.78e6	5.52e6	2047.1	2953.5	NO	bb	bb	91.346
13C-1234678-HpCDF	38.839	1.062	1.586e5	3.500e5	1.036	0.453	0.440	1212	1613	2.69e6	5.89e6	2216.9	3649.1	NO	bb	bb	83.185
13C-1234789-HpCDF	41.089	1.123	1.408e5	3.116e5	0.905	0.452	0.440	1212	1613	2.03e6	4.54e6	1676.7	2811.0	NO	bd	bd	84.711
13C-1234-TCDD	25.700	0.000	2.177e5	2.749e5	1.000	0.792	0.770	1617	1252	3.33e6	4.17e6	2061.3	3334.0	NO	bb	bb	100.000
13C-2378-TCDD	26.501	1.031	2.509e5	3.147e5	1.103	0.797	0.770	1617	1252	3.73e6	4.77e6	2309.4	3812.9	NO	bb	bb	104.090
13C-12378-PeCDD	31.619	1.230	2.768e5	1.711e5	0.914	1.617	1.550	783	888	4.10e6	2.49e6	5228.9	2804.4	NO	bb	bd	99.466
13C-123478-HxCDD	36.087	0.986	3.109e5	2.426e5	0.933	1.282	1.240	1343	1091	5.26e6	4.08e6	3913.8	3742.9	NO	bd	bd	100.523
13C-123678-HxCDD	36.198	0.989	3.178e5	2.511e5	0.965	1.266	1.240	1343	1091	5.13e6	4.09e6	3816.8	3751.7	NO	db	db	99.938
13C-1234678-HpCDD	40.343	1.103	2.082e5	1.953e5	0.782	1.066	1.050	1156	1108	3.12e6	2.91e6	2696.1	2629.5	NO	bb	bb	87.434
13C-OCDD	45.102	1.233	3.617e5	3.983e5	0.788	0.908	0.890	1711	1167	4.43e6	4.90e6	2587.8	4199.2	NO	bb	bb	163.380
13C-123789-HxCDD	36.588	0.000	3.296e5	2.606e5	1.000	1.265	1.240	1343	1091	5.47e6	4.32e6	4068.6	3963.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.532	1.032	5.388e4		1.233			1363		8.19e5		600.7			bb		8.867

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, 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	22.374	0.865	3.276e4	4.423e4	1.064	0.741	0.770	1068	1145	5.08e5	6.91e5	475.8	602.8	NO	bb	bb	9.342
1289-TCDF	27.394	1.059	2.645e4	3.605e4	0.858	0.734	0.770	1068	1145	3.94e5	5.15e5	369.4	449.3	NO	db	db	9.414
13468-PECDF	27.242	0.907	2.282e5	1.505e5	1.013	1.517	1.550	663	863	3.51e6	2.33e6	5294.6	2701.2	NO	bb	bb	50.650
12389-PECDF	32.421	1.080	1.791e5	1.206e5	0.844	1.485	1.550	1202	1806	2.69e6	1.76e6	2236.0	973.7	NO	bb	bb	48.123
123468-HXCDF	33.335	0.953	1.763e5	1.364e5	1.197	1.293	1.240	1290	1031	2.67e6	2.03e6	2069.3	1969.5	NO	bd	bb	46.081
1368-TCDD	23.659	0.893	2.586e4	3.236e4	1.084	0.799	0.770	1281	782	4.16e5	5.19e5	324.6	664.2	NO	bb	bb	9.493
1289-TCDD	27.136	1.024	2.274e4	2.935e4	0.975	0.775	0.770	1281	782	3.33e5	4.20e5	259.8	537.9	NO	bd	bd	9.446
12479-PECDD	28.912	0.914	2.484e5	1.586e5	1.837	1.566	1.550	1745	1329	2.37e6	1.50e6	1356.7	1131.0	NO	MM	MM	49.458
12389-PECDD	32.032	1.013	1.720e5	1.097e5	1.252	1.568	1.550	1745	1329	2.63e6	1.73e6	1506.1	1303.6	NO	bb	bb	50.218
124679-HXCDD	34.104	0.945	1.476e5	1.208e5	1.033	1.222	1.240	1716	1243	2.35e6	1.94e6	1366.8	1564.7	NO	bb	bb	46.946
1234679-HPCDD	39.307	0.974	1.304e5	1.250e5	1.286	1.043	1.050	1534	1123	2.06e6	1.96e6	1342.1	1745.0	NO	bd	bd	49.234
Total-tetrafurans			8.649e4		0.933			1068		1.31e6							28.288
Total-penta1			2.282e5					663		3.51e6							50.650
Total-pentafurans			5.791e5		0.866			1202		8.85e6							152.890
Total-hexafurans			8.574e5		1.208			1290		1.32e7							228.717
Total-heptafurans			2.734e5		1.185			1630		4.28e6							94.859
Total-Furans			2.207e6		1.067			1068		3.33e7							641.171
Total-tetradoxins			1.314e5		1.099			1281		1.82e6							47.858
Total-pentadoxins			5.671e5		1.392			1745		7.33e6							149.539
Total-hexadoxins			5.883e5		1.007			1716		9.67e6							190.513
Total-heptadoxins			2.498e5		1.269			1534		3.84e6							95.350
Total-Dioxins			1.720e6		1.165			1281		2.49e7							578.030
Total-TEQ			3.927e6					1281		5.81e7							1219.201
FUNCTION1 PFK			4.763e6					305793		3.63e7							
FUNCTION2 PFK			5.423e5					181475		1.33e7							0.000
FUNCTION3 PFK			3.583e5					206086		9.34e6							0.000
FUNCTION4 PFK			0.000e0					178080		0.00e0							
FUNCTION5 PFK			2.355e5					105143		5.11e6							
FUNCTION1 HXCD...			7.784e2					629		1.02e4							0.000
FUNCTION1 HPCD...			1.444e3					817		2.23e4							0.000
FUNCTION2 HPCD...			4.630e2					927		1.16e4							0.000
FUNCTION3 OCDPE			8.159e1					667		1.40e3							0.000
FUNCTION4 NCDPE			1.868e2					617		3.83e3							0.000
FUNCTION5 DCDPE			0.000e0					759		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:28:13 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10**Calibration: T:\Autospec\Curves\230201CIH.cdb 03 Feb 2023 10:33:40****ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, 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	2.645e4	3.605e4	0.858	0.73	0.77	369.4	YES	NO	db	db	9.414
2	2378-TCDF	25.88	2.728e4	3.737e4	0.876	0.73	0.77	382.4	YES	NO	bb	bb	9.533
3	1368-TCDF	22.37	3.276e4	4.423e4	1.064	0.74	0.77	475.8	YES	NO	bb	bb	9.342

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.24	2.282e5	1.505e5	1.013	1.52	1.55	5294.6	YES	NO	bb	bb	50.650

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.42	1.791e5	1.206e5	0.844	1.48	1.55	2236.0	YES	NO	bb	bb	48.123
2	23478-PeCDF	31.39	1.901e5	1.258e5	0.911	1.51	1.55	2467.3	YES	NO	bb	bb	49.008
3	12378-PeCDF	30.05	1.810e5	1.197e5	0.845	1.51	1.55	2301.8	YES	NO	bb	bb	48.221
4	Total-pentafurans	28.90	2.889e4	1.832e4	0.866	1.58	1.55	363.8	YES	NO	bb	bb	7.537

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.13	1.836e5	1.468e5	1.248	1.25	1.24	2121.8	YES	NO	db	dd	44.306
2	123478-HxCDF	35.00	1.715e5	1.385e5	1.182	1.24	1.24	2128.7	YES	NO	bd	bd	46.290
3	123468-HXCDF	33.33	1.763e5	1.364e5	1.197	1.29	1.24	2069.3	YES	NO	bd	bb	46.081
4	123789-HxCDF	37.01	1.506e5	1.224e5	1.187	1.23	1.24	1798.5	YES	NO	bd	bd	45.982
5	234678-HxCDF	35.99	1.754e5	1.404e5	1.229	1.25	1.24	2135.6	YES	NO	bb	bd	46.058

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	1.275e5	1.252e5	1.165	1.02	1.05	1130.9	YES	NO	bd	bb	47.926
2	Total-heptafurans	39.52	8.312e2	8.519e2	1.185	0.98	1.05	8.6	YES	NO	bb	bb	0.296
3	1234678-HpCDF	38.85	1.452e5	1.405e5	1.204	1.03	1.05	1487.5	YES	NO	bd	bd	46.638

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, 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	27.39	2.645e4	3.605e4	0.858	0.73	0.77	369.4	YES	NO	db	db	9.414
2	2378-TCDF	25.88	2.728e4	3.737e4	0.876	0.73	0.77	382.4	YES	NO	bb	bb	9.533
3	1368-TCDF	22.37	3.276e4	4.423e4	1.064	0.74	0.77	475.8	YES	NO	bb	bb	9.342
4	12389-PECDF	32.42	1.791e5	1.206e5	0.844	1.48	1.55	2236.0	YES	NO	bb	bb	48.123
5	23478-PeCDF	31.39	1.901e5	1.258e5	0.911	1.51	1.55	2467.3	YES	NO	bb	bb	49.008
6	12378-PeCDF	30.05	1.810e5	1.197e5	0.845	1.51	1.55	2301.8	YES	NO	bb	bb	48.221
7	Total-pentafurans	28.90	2.889e4	1.832e4	0.866	1.58	1.55	363.8	YES	NO	bb	bb	7.537
8	123678-HxCDF	35.13	1.836e5	1.468e5	1.248	1.25	1.24	2121.8	YES	NO	db	dd	44.306
9	123478-HxCDF	35.00	1.715e5	1.385e5	1.182	1.24	1.24	2128.7	YES	NO	bd	bd	46.290
10	123468-HXCDF	33.33	1.763e5	1.364e5	1.197	1.29	1.24	2069.3	YES	NO	bd	bb	46.081
11	123789-HxCDF	37.01	1.506e5	1.224e5	1.187	1.23	1.24	1798.5	YES	NO	bd	bd	45.982
12	234678-HxCDF	35.99	1.754e5	1.404e5	1.229	1.25	1.24	2135.6	YES	NO	bb	bd	46.058
13	1234789-HpCDF	41.10	1.275e5	1.252e5	1.165	1.02	1.05	1130.9	YES	NO	bd	bb	47.926
14	Total-heptafurans	39.52	8.312e2	8.519e2	1.185	0.98	1.05	8.6	YES	NO	bb	bb	0.296
15	1234678-HpCDF	38.85	1.452e5	1.405e5	1.204	1.03	1.05	1487.5	YES	NO	bd	bd	46.638
16	OCDF	45.36	1.826e5	2.040e5	1.186	0.90	0.89	2474.8	YES	NO	bd	bd	85.766
17	13468-PECDF	27.24	2.282e5	1.505e5	1.013	1.52	1.55	5294.6	YES	NO	bb	bb	50.650

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.53	2.806e4	3.617e4	1.236	0.78	0.77	335.2	YES	NO	bd	bb	9.185
2	Total-tetradioxins	26.20	4.091e4	5.086e4	1.099	0.80	0.77	339.1	YES	NO	bb	bb	14.769
3	Total-tetradioxins	25.72	1.280e4	1.563e4	1.099	0.82	0.77	156.4	YES	NO	bb	bb	4.575
4	Total-tetradioxins	24.85	1.026e3	1.397e3	1.099	0.73	0.77	8.0	YES	NO	bb	bb	0.390
5	1368-TCDD	23.66	2.586e4	3.236e4	1.084	0.80	0.77	324.6	YES	NO	bb	bb	9.493
6	1289-TCDD	27.14	2.274e4	2.935e4	0.975	0.77	0.77	259.8	YES	NO	bd	bd	9.446

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.03	1.720e5	1.097e5	1.252	1.57	1.55	1506.1	YES	NO	bb	bb	50.218
2	12378-PeCDD	31.63	1.467e5	9.606e4	1.087	1.53	1.55	1338.0	YES	NO	bb	bb	49.863
3	12479-PECDD	28.91	2.484e5	1.586e5	1.837	1.57	1.55	1356.7	YES	NO	MM	MM	49.458

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, 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	34.10	1.476e5	1.208e5	1.033	1.22	1.24	1366.8	YES	NO	bb	bb	46.946
2	123789-HxCDD	36.60	1.493e5	1.228e5	0.985	1.22	1.24	1431.5	YES	NO	bb	bb	49.197
3	123678-HxCDD	36.22	1.452e5	1.197e5	1.021	1.21	1.24	1444.5	YES	NO	db	db	45.622
4	123478-HxCDD	36.10	1.462e5	1.201e5	0.987	1.22	1.24	1391.4	YES	NO	bd	bd	48.748

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.58	4.504e2	4.766e2	1.269	0.95	1.05	6.8	YES	NO	dd	dd	0.181
2	1234678-HpCDD	40.35	1.189e5	1.133e5	1.253	1.05	1.05	1154.5	YES	NO	bd	bd	45.935
3	1234679-HPCDD	39.31	1.304e5	1.250e5	1.286	1.04	1.05	1342.1	YES	NO	bd	bd	49.234

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	2.806e4	3.617e4	1.236	0.78	0.77	335.2	YES	NO	bd	bb	9.185
2	Total-tetradioxins	26.20	4.091e4	5.086e4	1.099	0.80	0.77	339.1	YES	NO	bb	bb	14.769
3	Total-tetradioxins	25.72	1.280e4	1.563e4	1.099	0.82	0.77	156.4	YES	NO	bb	bb	4.575
4	Total-tetradioxins	24.85	1.026e3	1.397e3	1.099	0.73	0.77	8.0	YES	NO	bb	bb	0.390
5	1368-TCDD	23.66	2.586e4	3.236e4	1.084	0.80	0.77	324.6	YES	NO	bb	bb	9.493
6	1289-TCDD	27.14	2.274e4	2.935e4	0.975	0.77	0.77	259.8	YES	NO	bd	bd	9.446
7	124679-HxCDD	34.10	1.476e5	1.208e5	1.033	1.22	1.24	1366.8	YES	NO	bb	bb	46.946
8	12389-PECDD	32.03	1.720e5	1.097e5	1.252	1.57	1.55	1506.1	YES	NO	bb	bb	50.218
9	12378-PeCDD	31.63	1.467e5	9.606e4	1.087	1.53	1.55	1338.0	YES	NO	bb	bb	49.863
10	123789-HxCDD	36.60	1.493e5	1.228e5	0.985	1.22	1.24	1431.5	YES	NO	bb	bb	49.197
11	123678-HxCDD	36.22	1.452e5	1.197e5	1.021	1.21	1.24	1444.5	YES	NO	db	db	45.622
12	123478-HxCDD	36.10	1.462e5	1.201e5	0.987	1.22	1.24	1391.4	YES	NO	bd	bd	48.748
13	Total-heptadioxins	40.58	4.504e2	4.766e2	1.269	0.95	1.05	6.8	YES	NO	dd	dd	0.181
14	1234678-HpCDD	40.35	1.189e5	1.133e5	1.253	1.05	1.05	1154.5	YES	NO	bd	bd	45.935
15	1234679-HPCDD	39.31	1.304e5	1.250e5	1.286	1.04	1.05	1342.1	YES	NO	bd	bd	49.234
16	OCDD	45.12	1.835e5	2.136e5	1.103	0.86	0.89	1636.7	YES	NO	bb	bd	94.770
17	12479-PECDD	28.91	2.484e5	1.586e5	1.837	1.57	1.55	1356.7	YES	NO	MM	MM	49.458

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	2.645e4	3.605e4	0.858	0.73	0.77	369.4	YES	NO	db	db	9.414
2	2378-TCDF	25.88	2.728e4	3.737e4	0.876	0.73	0.77	382.4	YES	NO	bb	bb	9.533
3	1368-TCDF	22.37	3.276e4	4.423e4	1.064	0.74	0.77	475.8	YES	NO	bb	bb	9.342
4	12389-PECDF	32.42	1.791e5	1.206e5	0.844	1.48	1.55	2236.0	YES	NO	bb	bb	48.123
5	23478-PeCDF	31.39	1.901e5	1.258e5	0.911	1.51	1.55	2467.3	YES	NO	bb	bb	49.008
6	12378-PeCDF	30.05	1.810e5	1.197e5	0.845	1.51	1.55	2301.8	YES	NO	bb	bb	48.221
7	Total-pentafurans	28.90	2.889e4	1.832e4	0.866	1.58	1.55	363.8	YES	NO	bb	bb	7.537
8	123678-HxCDF	35.13	1.836e5	1.468e5	1.248	1.25	1.24	2121.8	YES	NO	db	dd	44.306
9	123478-HxCDF	35.00	1.715e5	1.385e5	1.182	1.24	1.24	2128.7	YES	NO	bd	bd	46.290
10	123468-HXCDF	33.33	1.763e5	1.364e5	1.197	1.29	1.24	2069.3	YES	NO	bd	bb	46.081
11	123789-HxCDF	37.01	1.506e5	1.224e5	1.187	1.23	1.24	1798.5	YES	NO	bd	bd	45.982
12	234678-HxCDF	35.99	1.754e5	1.404e5	1.229	1.25	1.24	2135.6	YES	NO	bb	bd	46.058
13	1234789-HpCDF	41.10	1.275e5	1.252e5	1.165	1.02	1.05	1130.9	YES	NO	bd	bb	47.926
14	Total-heptafurans	39.52	8.312e2	8.519e2	1.185	0.98	1.05	8.6	YES	NO	bb	bb	0.296
15	1234678-HpCDF	38.85	1.452e5	1.405e5	1.204	1.03	1.05	1487.5	YES	NO	bd	bd	46.638
16	OCDF	45.36	1.826e5	2.040e5	1.186	0.90	0.89	2474.8	YES	NO	bd	bd	85.766
17	13468-PECDF	27.24	2.282e5	1.505e5	1.013	1.52	1.55	5294.6	YES	NO	bb	bb	50.650
18	2378-TCDD	26.53	2.806e4	3.617e4	1.236	0.78	0.77	335.2	YES	NO	bd	bb	9.185
19	Total-tetradiioxins	26.20	4.091e4	5.086e4	1.099	0.80	0.77	339.1	YES	NO	bb	bb	14.769
20	Total-tetradiioxins	25.72	1.280e4	1.563e4	1.099	0.82	0.77	156.4	YES	NO	bb	bb	4.575
21	Total-tetradiioxins	24.85	1.026e3	1.397e3	1.099	0.73	0.77	8.0	YES	NO	bb	bb	0.390
22	1368-TCDD	23.66	2.586e4	3.236e4	1.084	0.80	0.77	324.6	YES	NO	bb	bb	9.493
23	1289-TCDD	27.14	2.274e4	2.935e4	0.975	0.77	0.77	259.8	YES	NO	bd	bd	9.446
24	124679-HXCDD	34.10	1.476e5	1.208e5	1.033	1.22	1.24	1366.8	YES	NO	bb	bb	46.946
25	12389-PECDD	32.03	1.720e5	1.097e5	1.252	1.57	1.55	1506.1	YES	NO	bb	bb	50.218
26	12378-PeCDD	31.63	1.467e5	9.606e4	1.087	1.53	1.55	1338.0	YES	NO	bb	bb	49.863
27	123789-HxCDD	36.60	1.493e5	1.228e5	0.985	1.22	1.24	1431.5	YES	NO	bb	bb	49.197
28	123678-HxCDD	36.22	1.452e5	1.197e5	1.021	1.21	1.24	1444.5	YES	NO	db	db	45.622
29	123478-HxCDD	36.10	1.462e5	1.201e5	0.987	1.22	1.24	1391.4	YES	NO	bd	bd	48.748
30	Total-heptadiioxins	40.58	4.504e2	4.766e2	1.269	0.95	1.05	6.8	YES	NO	dd	dd	0.181
31	1234678-HpCDD	40.35	1.189e5	1.133e5	1.253	1.05	1.05	1154.5	YES	NO	bd	bd	45.935
32	1234679-HPCDD	39.31	1.304e5	1.250e5	1.286	1.04	1.05	1342.1	YES	NO	bd	bd	49.234
33	OCDD	45.12	1.835e5	2.136e5	1.103	0.86	0.89	1636.7	YES	NO	bb	bd	94.770
34	12479-PECDD	28.91	2.484e5	1.586e5	1.837	1.57	1.55	1356.7	YES	NO	MM	MM	49.458

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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	23.14	9.329e3					0.9	NO		bb		
2	FUNCTION1 PFK	22.72	2.595e3					0.6	NO		bb		
3	FUNCTION1 PFK	22.65	1.359e4					1.3	NO		bb		
4	FUNCTION1 PFK	22.21	1.980e3					0.4	NO		bb		
5	FUNCTION1 PFK	21.44	1.834e6					20.0	YES		db		
6	FUNCTION1 PFK	21.32	1.241e6					24.1	YES		dd		
7	FUNCTION1 PFK	21.19	5.654e5					26.4	YES		dd		
8	FUNCTION1 PFK	21.13	8.677e5					28.2	YES		bd		
9	FUNCTION1 PFK	27.15	1.848e4					1.4	NO		bb		
10	FUNCTION1 PFK	26.86	2.297e3					0.5	NO		bb		
11	FUNCTION1 PFK	26.18	2.579e3					0.6	NO		bb		
12	FUNCTION1 PFK	25.85	2.009e4					1.5	NO		bb		
13	FUNCTION1 PFK	25.61	6.044e3					0.8	NO		bb		
14	FUNCTION1 PFK	25.49	1.801e4					0.8	NO		bb		
15	FUNCTION1 PFK	25.13	7.883e3					0.8	NO		bb		
16	FUNCTION1 PFK	24.96	9.320e3					0.9	NO		bb		
17	FUNCTION1 PFK	24.76	1.948e4					1.4	NO		bb		
18	FUNCTION1 PFK	24.26	1.145e4					1.1	NO		db		
19	FUNCTION1 PFK	24.20	3.887e4					1.8	NO		dd		
20	FUNCTION1 PFK	24.08	3.730e4					2.2	NO		bd		
21	FUNCTION1 PFK	23.81	9.090e3					1.1	NO		bb		
22	FUNCTION1 PFK	23.69	2.124e3					0.5	NO		bb		
23	FUNCTION1 PFK	23.22	2.464e4					1.6	NO		bb		

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.83	4.460e3					0.9	NO		db		0.000
2	FUNCTION2 PFK	29.77	1.230e4					1.7	NO		dd		0.000
3	FUNCTION2 PFK	29.71	1.195e4					2.0	NO		dd		0.000
4	FUNCTION2 PFK	29.64	3.540e4					2.5	NO		dd		0.000
5	FUNCTION2 PFK	29.50	1.525e4					1.9	NO		bd		0.000
6	FUNCTION2 PFK	29.34	7.671e3					1.3	NO		bb		0.000
7	FUNCTION2 PFK	29.26	3.670e3					0.9	NO		bb		0.000
8	FUNCTION2 PFK	29.20	8.595e3					1.4	NO		bb		0.000
9	FUNCTION2 PFK	28.99	7.715e3					1.3	NO		db		0.000
10	FUNCTION2 PFK	28.97	4.644e3					1.2	NO		bd		0.000
11	FUNCTION2 PFK	28.67	1.156e4					2.2	NO		db		0.000
12	FUNCTION2 PFK	28.57	1.982e4					1.8	NO		bd		0.000
13	FUNCTION2 PFK	28.42	9.734e2					0.5	NO		bb		0.000
14	FUNCTION2 PFK	28.35	2.306e4					3.8	YES		db		0.000
15	FUNCTION2 PFK	28.30	3.314e4					4.5	YES		dd		0.000
16	FUNCTION2 PFK	28.25	4.283e4					7.2	YES		bd		0.000
17	FUNCTION2 PFK	31.94	2.853e4					3.2	YES		bd		0.000
18	FUNCTION2 PFK	31.66	2.280e3					0.8	NO		bb		0.000
19	FUNCTION2 PFK	31.62	8.729e3					1.6	NO		bb		0.000
20	FUNCTION2 PFK	31.55	1.136e4					2.0	NO		bb		0.000
21	FUNCTION2 PFK	31.45	1.471e4					2.3	NO		db		0.000
22	FUNCTION2 PFK	31.32	3.155e4					2.1	NO		bd		0.000
23	FUNCTION2 PFK	31.14	1.546e3					0.6	NO		db		0.000
24	FUNCTION2 PFK	31.10	2.015e4					2.2	NO		bd		0.000
25	FUNCTION2 PFK	30.81	6.776e2					0.3	NO		bb		0.000
26	FUNCTION2 PFK	30.75	6.368e3					1.3	NO		db		0.000
27	FUNCTION2 PFK	30.65	1.669e4					2.0	NO		bd		0.000
28	FUNCTION2 PFK	30.58	6.341e3					1.5	NO		bb		0.000
29	FUNCTION2 PFK	30.43	1.161e4					1.7	NO		db		0.000
30	FUNCTION2 PFK	30.36	1.267e4					1.9	NO		bd		0.000
31	FUNCTION2 PFK	30.06	9.922e2					0.5	NO		bb		0.000
32	FUNCTION2 PFK	29.98	1.161e4					1.3	NO		bb		0.000
33	FUNCTION2 PFK	32.71	8.598e2					0.4	NO		bb		0.000
34	FUNCTION2 PFK	32.62	1.844e3					0.6	NO		bb		0.000
35	FUNCTION2 PFK	32.31	8.609e3					1.6	NO		bb		0.000
36	FUNCTION2 PFK	32.22	9.372e3					2.3	NO		db		0.000
37	FUNCTION2 PFK	32.20	2.290e4					3.5	YES		dd		0.000

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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	32.15	5.957e4					3.3	YES		dd		0.000
39	FUNCTION2 PFK	31.99	1.033e4					1.7	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
1	FUNCTION3 PFK	33.96	1.737e4					1.8	NO		db		0.000
2	FUNCTION3 PFK	33.86	9.488e3					1.1	NO		bd		0.000
3	FUNCTION3 PFK	33.47	1.048e4					1.4	NO		bb		0.000
4	FUNCTION3 PFK	33.22	2.023e4					1.8	NO		db		0.000
5	FUNCTION3 PFK	33.12	3.444e4					2.9	NO		bd		0.000
6	FUNCTION3 PFK	33.05	1.049e4					2.0	NO		db		0.000
7	FUNCTION3 PFK	33.01	2.003e4					3.2	YES		dd		0.000
8	FUNCTION3 PFK	32.99	4.737e3					1.4	NO		bd		0.000
9	FUNCTION3 PFK	36.50	2.431e3					0.6	NO		bb		0.000
10	FUNCTION3 PFK	36.42	6.775e3					1.1	NO		bb		0.000
11	FUNCTION3 PFK	36.11	8.685e2					0.4	NO		bb		0.000
12	FUNCTION3 PFK	35.93	4.757e3					0.9	NO		bb		0.000
13	FUNCTION3 PFK	35.79	1.924e4					1.5	NO		bb		0.000
14	FUNCTION3 PFK	35.40	1.951e4					2.0	NO		bb		0.000
15	FUNCTION3 PFK	35.26	1.864e4					1.8	NO		db		0.000
16	FUNCTION3 PFK	35.14	1.457e4					1.6	NO		bd		0.000
17	FUNCTION3 PFK	35.03	1.281e3					0.6	NO		bb		0.000
18	FUNCTION3 PFK	34.69	3.266e4					2.0	NO		bb		0.000
19	FUNCTION3 PFK	34.47	8.681e2					0.4	NO		bb		0.000
20	FUNCTION3 PFK	34.43	7.870e3					1.3	NO		bb		0.000
21	FUNCTION3 PFK	34.29	1.784e3					0.5	NO		bb		0.000
22	FUNCTION3 PFK	34.19	6.455e3					1.2	NO		bb		0.000
23	FUNCTION3 PFK	34.14	3.828e3					0.9	NO		bb		0.000
24	FUNCTION3 PFK	34.00	1.377e3					0.6	NO		bb		0.000
25	FUNCTION3 PFK	37.94	2.008e4					1.8	NO		bb		0.000
26	FUNCTION3 PFK	37.72	1.073e4					1.4	NO		db		0.000
27	FUNCTION3 PFK	37.67	1.759e4					2.2	NO		dd		0.000
28	FUNCTION3 PFK	37.62	9.816e3					1.7	NO		bd		0.000
29	FUNCTION3 PFK	37.56	1.020e4					1.4	NO		db		0.000
30	FUNCTION3 PFK	37.51	3.376e3					0.7	NO		bd		0.000
31	FUNCTION3 PFK	37.08	4.636e3					0.9	NO		bb		0.000
32	FUNCTION3 PFK	36.94	4.701e3					0.9	NO		bb		0.000
33	FUNCTION3 PFK	36.59	4.112e3					0.8	NO		bb		0.000
34	FUNCTION3 PFK	36.54	2.843e3					0.7	NO		bb		0.000

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	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	43.40	7.519e3					1.5	NO		bb		
2	FUNCTION5 PFK	43.32	1.005e3					0.6	NO		bb		
3	FUNCTION5 PFK	43.15	4.699e4					5.3	YES		db		
4	FUNCTION5 PFK	43.08	7.471e4					10.3	YES		bd		
5	FUNCTION5 PFK	45.06	1.998e3					0.9	NO		bb		
6	FUNCTION5 PFK	44.99	1.722e3					0.9	NO		bb		
7	FUNCTION5 PFK	44.85	2.358e3					1.0	NO		db		
8	FUNCTION5 PFK	44.79	9.522e3					2.2	NO		dd		
9	FUNCTION5 PFK	44.75	8.975e3					2.7	NO		dd		
10	FUNCTION5 PFK	44.66	8.382e3					1.5	NO		bd		
11	FUNCTION5 PFK	44.59	9.490e3					2.0	NO		db		
12	FUNCTION5 PFK	44.53	5.862e3					2.3	NO		dd		
13	FUNCTION5 PFK	44.48	1.097e4					1.6	NO		bd		
14	FUNCTION5 PFK	44.40	3.511e3					1.2	NO		bb		
15	FUNCTION5 PFK	44.33	5.417e3					1.4	NO		bb		
16	FUNCTION5 PFK	44.02	1.652e3					0.8	NO		db		
17	FUNCTION5 PFK	43.96	4.773e3					1.4	NO		dd		
18	FUNCTION5 PFK	43.89	3.846e3					1.0	NO		bd		
19	FUNCTION5 PFK	43.62	4.955e2					0.5	NO		bb		
20	FUNCTION5 PFK	43.56	4.307e2					0.4	NO		bb		
21	FUNCTION5 PFK	46.44	1.787e3					0.9	NO		bb		
22	FUNCTION5 PFK	46.28	3.625e2					0.4	NO		bb		
23	FUNCTION5 PFK	46.14	3.034e3					0.6	NO		bb		
24	FUNCTION5 PFK	45.99	2.999e3					1.1	NO		db		
25	FUNCTION5 PFK	45.94	4.233e3					1.5	NO		bd		
26	FUNCTION5 PFK	45.60	1.270e3					0.7	NO		bb		
27	FUNCTION5 PFK	45.52	3.112e3					0.7	NO		bb		
28	FUNCTION5 PFK	45.46	3.459e3					1.7	NO		bb		
29	FUNCTION5 PFK	45.32	5.614e3					1.6	NO		bb		

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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, 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...	26.55	1.291e2					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	26.02	1.156e2					1.3	NO		bb		0.000
3	FUNCTION1 HXCD...	24.66	7.817e1					1.6	NO		bb		0.000
4	FUNCTION1 HXCD...	24.23	7.395e1					1.7	NO		bb		0.000
5	FUNCTION1 HXCD...	22.89	8.777e1					2.1	NO		bb		0.000
6	FUNCTION1 HXCD...	22.12	9.312e1					2.0	NO		bb		0.000
7	FUNCTION1 HXCD...	28.18	8.248e1					1.4	NO		bb		0.000
8	FUNCTION1 HXCD...	27.27	1.182e2					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	FUNCTION1 HPCD...	27.92	9.216e1					2.2	NO		db		0.000
2	FUNCTION1 HPCD...	27.82	1.617e2					1.4	NO		bd		0.000
3	FUNCTION1 HPCD...	27.39	8.356e1					1.1	NO		db		0.000
4	FUNCTION1 HPCD...	27.27	1.409e2					2.9	NO		bd		0.000
5	FUNCTION1 HPCD...	26.70	9.683e1					1.7	NO		bb		0.000
6	FUNCTION1 HPCD...	26.17	7.773e1					2.2	NO		db		0.000
7	FUNCTION1 HPCD...	26.05	1.054e2					2.2	NO		dd		0.000
8	FUNCTION1 HPCD...	25.88	1.216e2					2.3	NO		bd		0.000
9	FUNCTION1 HPCD...	23.98	7.990e1					2.0	NO		bb		0.000
10	FUNCTION1 HPCD...	22.19	1.259e2					1.9	NO		db		0.000
11	FUNCTION1 HPCD...	22.10	1.407e2					1.9	NO		bd		0.000
12	FUNCTION1 HPCD...	21.94	8.465e1					2.2	NO		db		0.000
13	FUNCTION1 HPCD...	21.87	1.331e2					3.2	YES		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...	31.23	1.018e2					3.1	YES		bb		0.000
2	FUNCTION2 HPCD...	31.02	9.769e1					2.9	NO		bb		0.000
3	FUNCTION2 HPCD...	28.69	8.773e1					2.0	NO		bb		0.000
4	FUNCTION2 HPCD...	28.50	1.006e2					2.1	NO		bb		0.000
5	FUNCTION2 HPCD...	28.43	7.510e1					2.4	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, 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	33.32	8.159e1					2.1	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	41.94	7.078e1					3.3	YES		bb		0.000
2	FUNCTION4 NCDPE	40.42	1.160e2					2.9	NO		bb		0.000

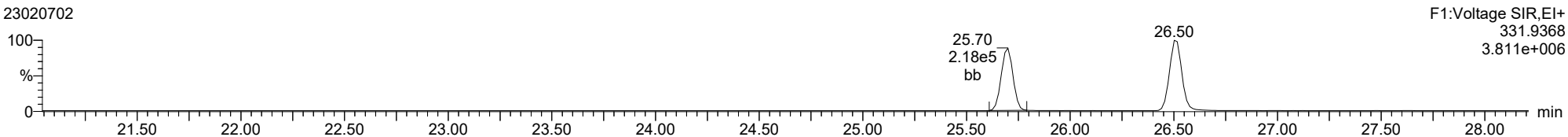
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
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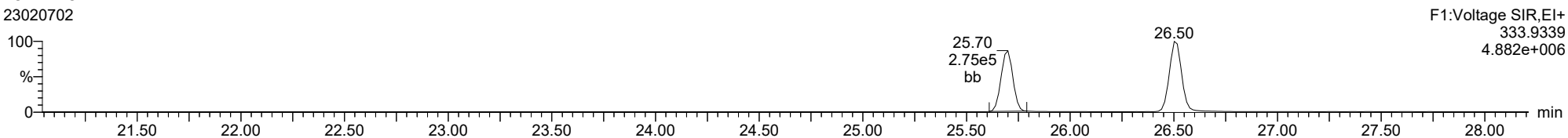
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ID: CS3T1, **Name:** 23020702, **Date:** 07-Feb-2023, **Time:** 09:25:16, **Conditions:** AUTOSPEC01, **User:** pk

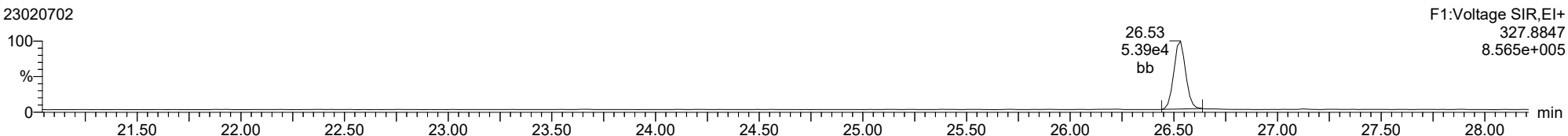
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23020702



13C-1234-TCDD
23020702



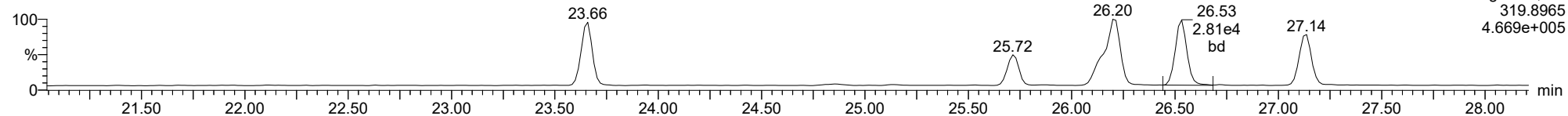
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

2378-TCDD

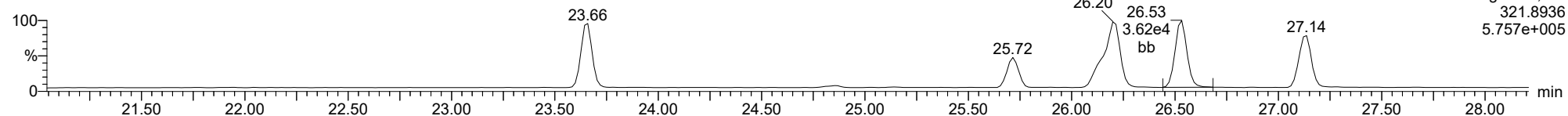
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F1:Voltage SIR,EI+
319.8965
4.669e+005

2378-TCDD

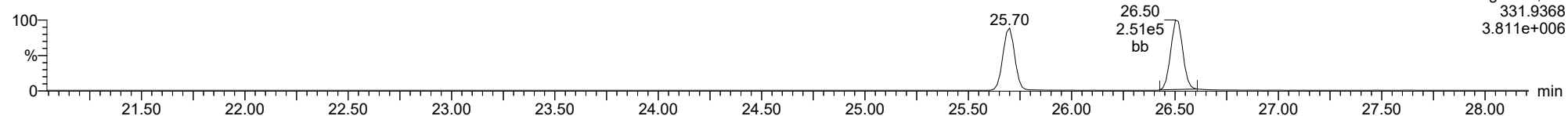
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F1:Voltage SIR,EI+
321.8936
5.757e+005

13C-2378-TCDD

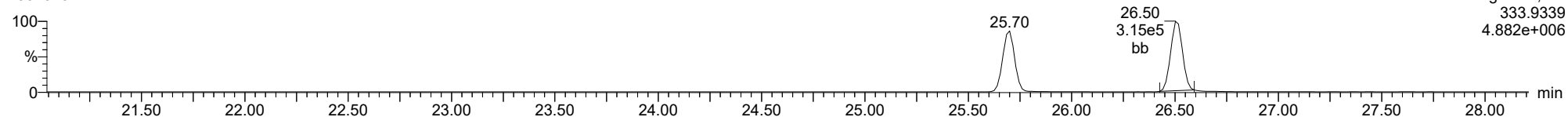
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F1:Voltage SIR,EI+
331.9368
3.811e+006

13C-2378-TCDD

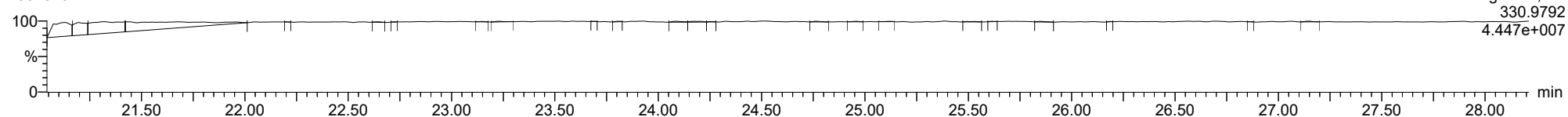
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F1:Voltage SIR,EI+
333.9339
4.882e+006

FUNCTION1 PFK

23020702

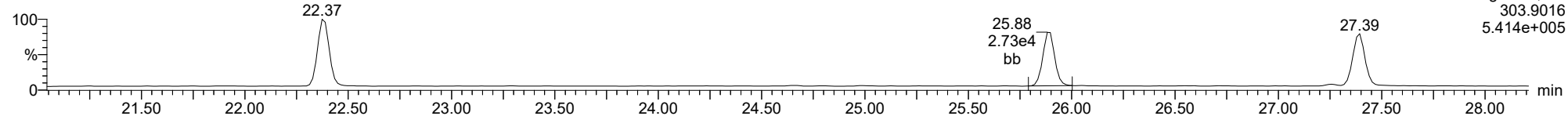


F1:Voltage SIR,EI+
330.9792
4.447e+007

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

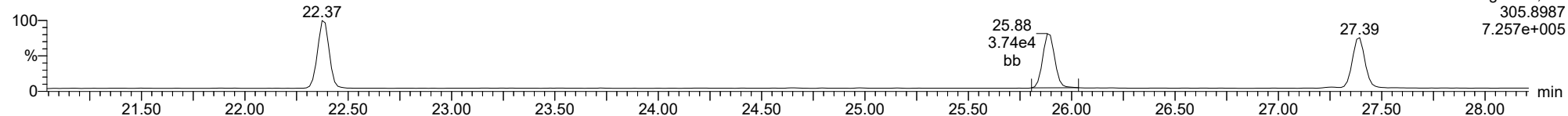
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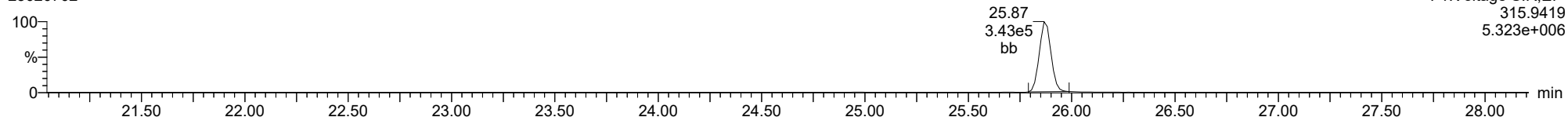
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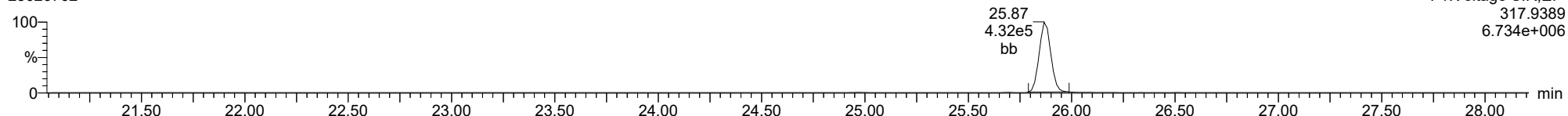
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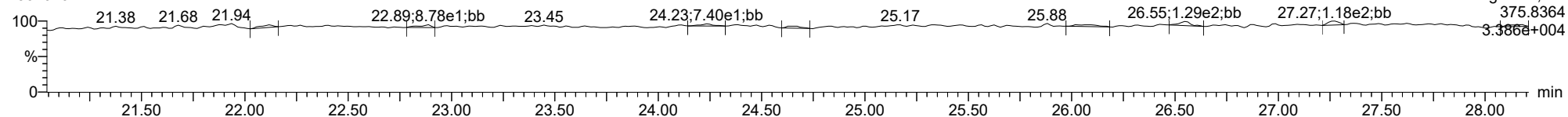
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FUNCTION1 HXCDPE

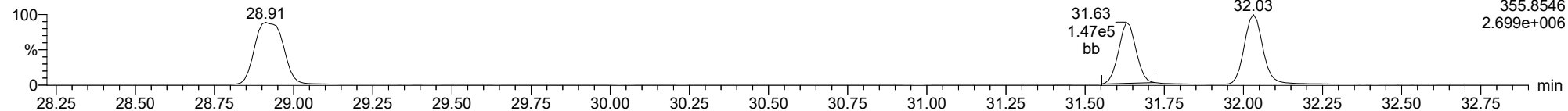
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12378-PeCDD

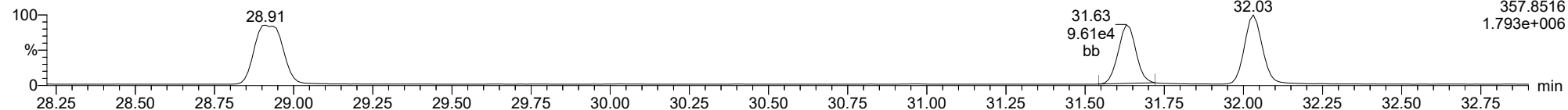
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F2:Voltage SIR,EI+
355.8546
2.699e+006

12378-PeCDD

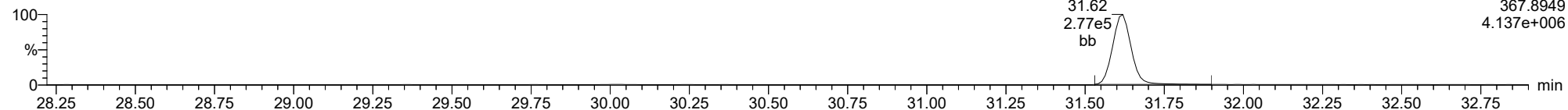
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F2:Voltage SIR,EI+
357.8516
1.793e+006

13C-12378-PeCDD

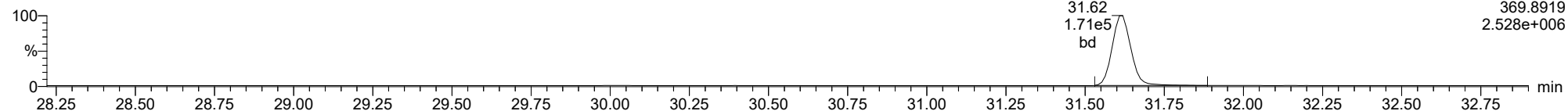
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F2:Voltage SIR,EI+
367.8949
4.137e+006

13C-12378-PeCDD

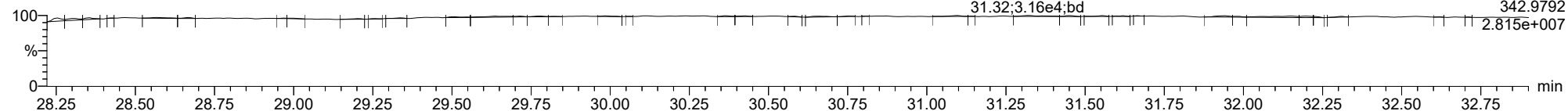
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F2:Voltage SIR,EI+
369.8919
2.528e+006

FUNCTION2 PFK

23020702

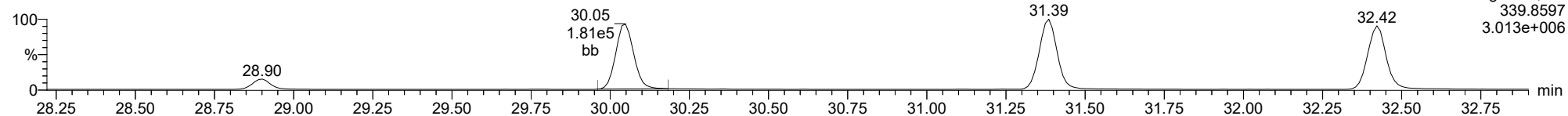


F2:Voltage SIR,EI+
342.9792
2.815e+007

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

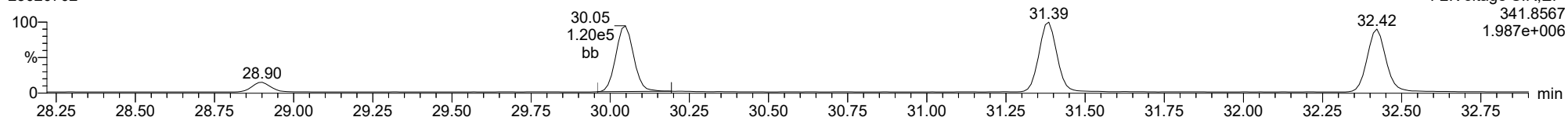
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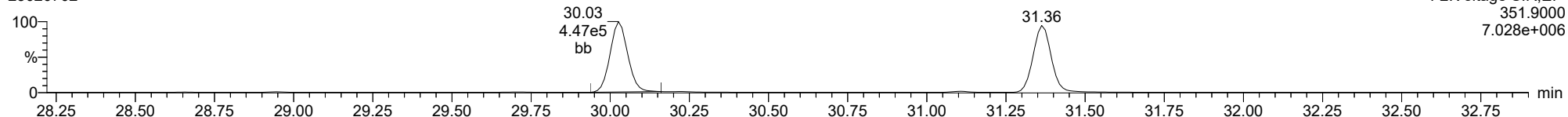
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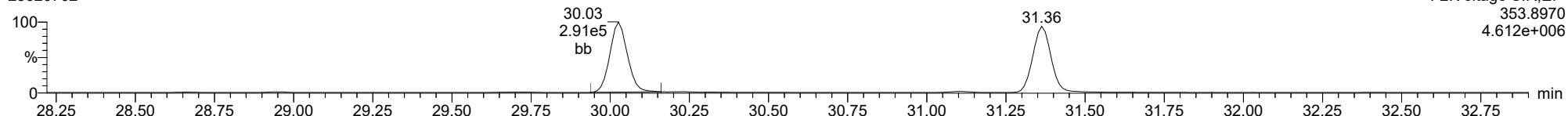
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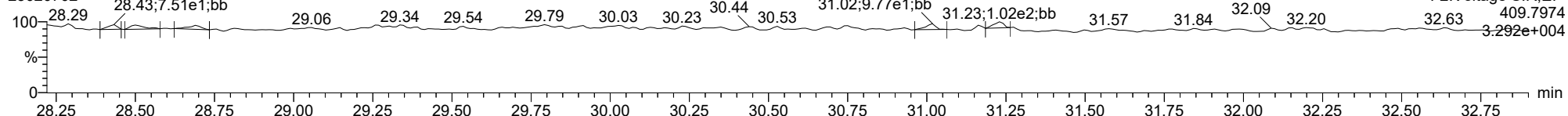
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FUNCTION2 HPCDPE

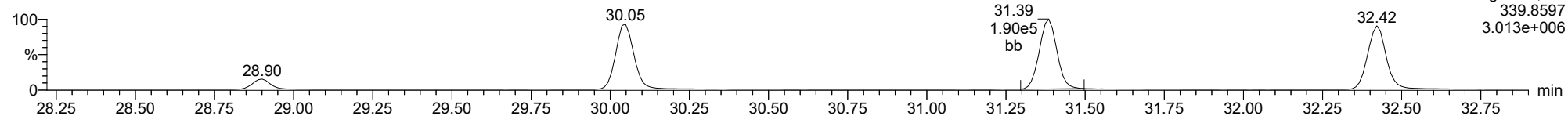
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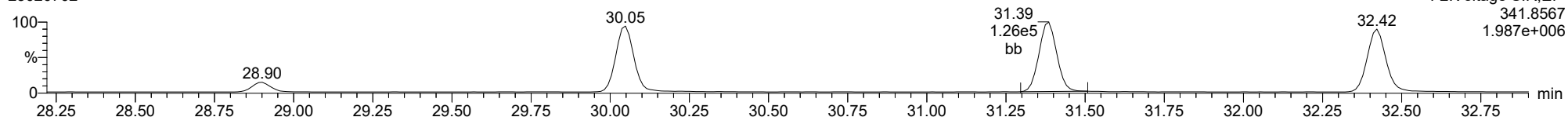
23478-PeCDF

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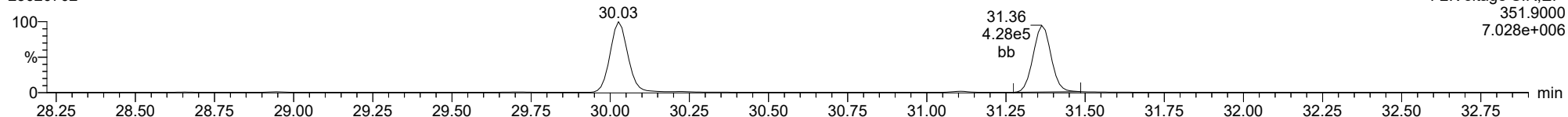
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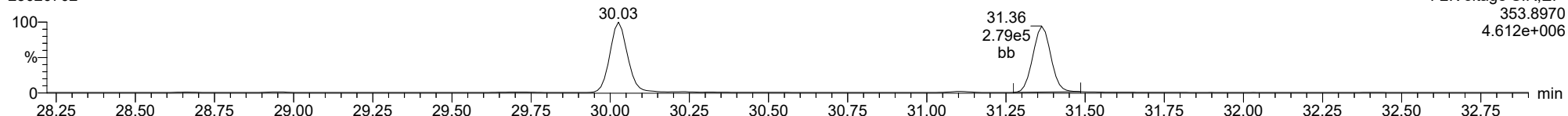
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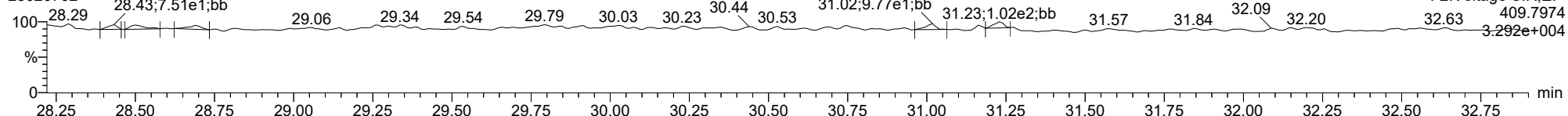
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FUNCTION2 HPCDPE

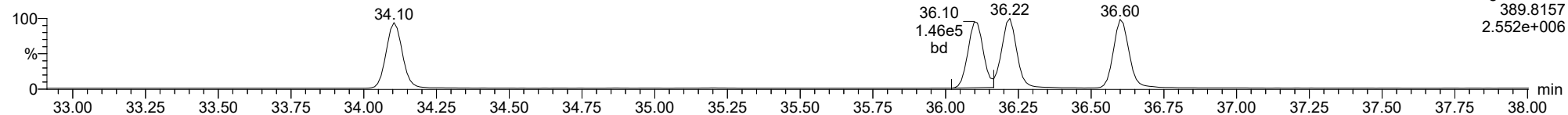
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

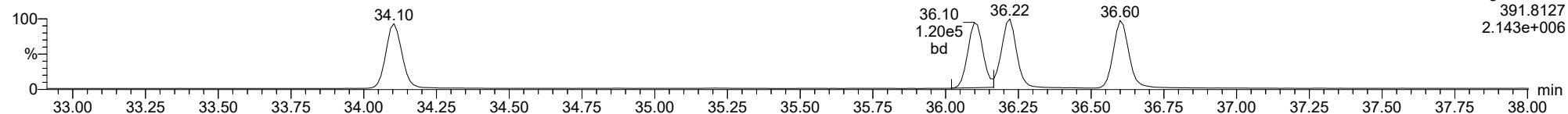
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F3:Voltage SIR,EI+
389.8157
2.552e+006

123478-HxCDD

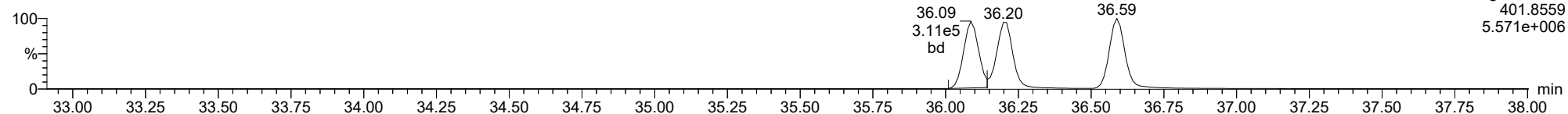
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F3:Voltage SIR,EI+
391.8127
2.143e+006

13C-123478-HxCDD

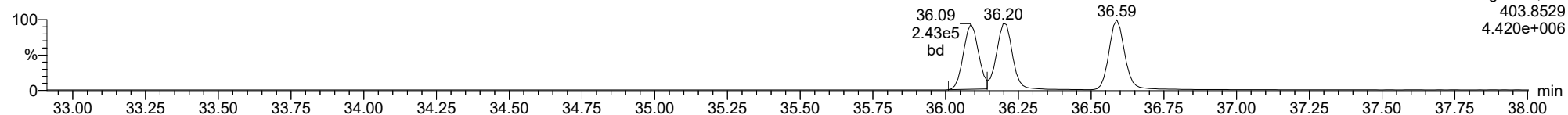
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F3:Voltage SIR,EI+
401.8559
5.571e+006

13C-123478-HxCDD

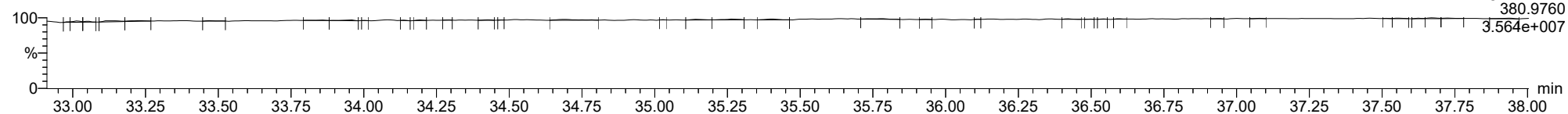
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F3:Voltage SIR,EI+
403.8529
4.420e+006

FUNCTION3 PFK

23020702

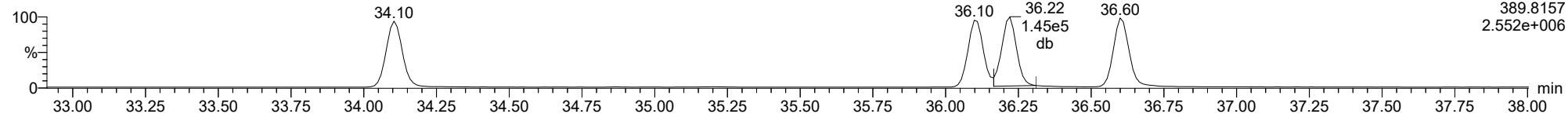


F3:Voltage SIR,EI+
380.9760
3.564e+007

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

123678-HxCDD

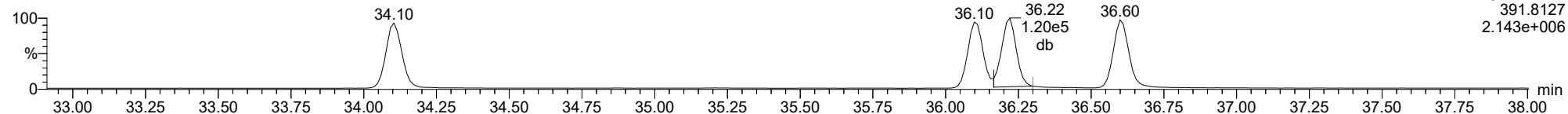
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F3:Voltage SIR,EI+
389.8157
2.552e+006

123678-HxCDD

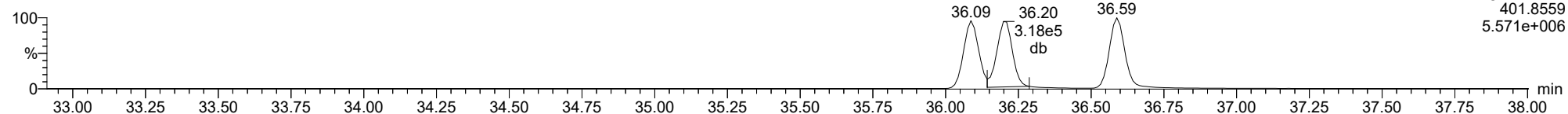
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F3:Voltage SIR,EI+
391.8127
2.143e+006

13C-123678-HxCDD

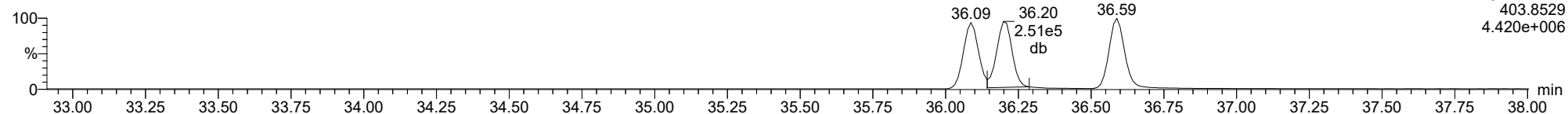
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F3:Voltage SIR,EI+
401.8559
5.571e+006

13C-123678-HxCDD

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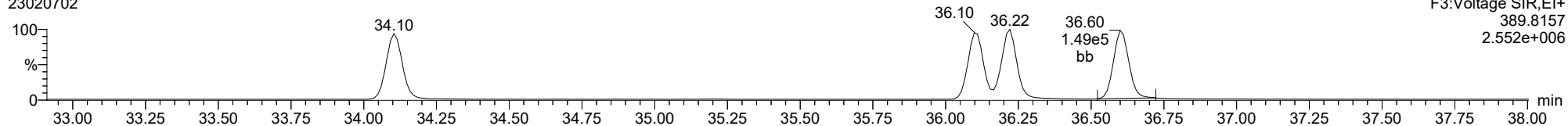


F3:Voltage SIR,EI+
403.8529
4.420e+006

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

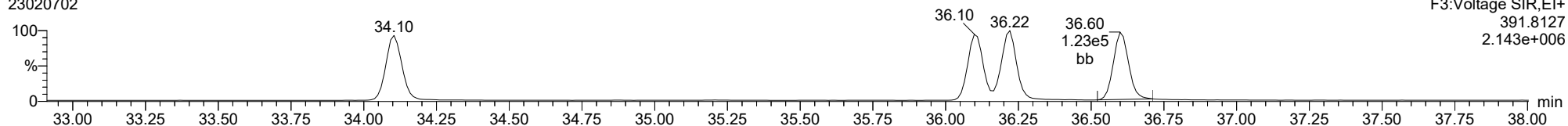
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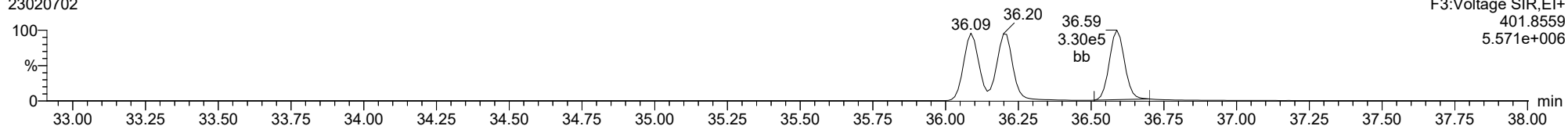
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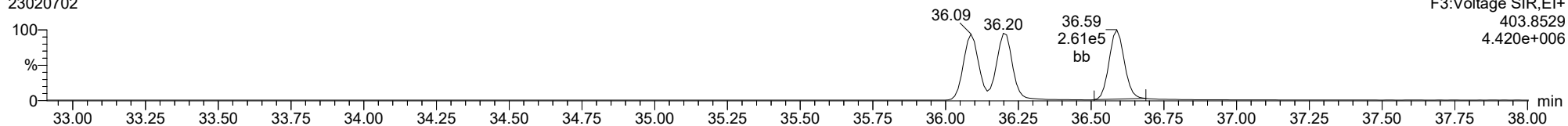
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13C-123789-HxCDD

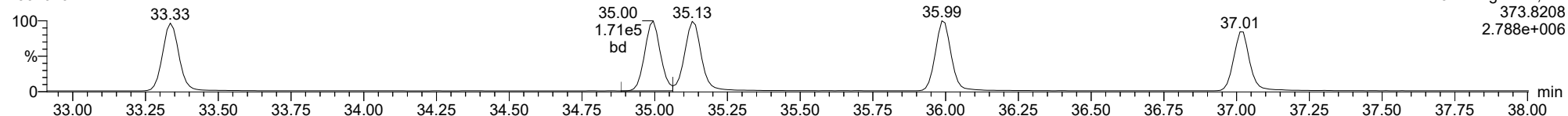
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

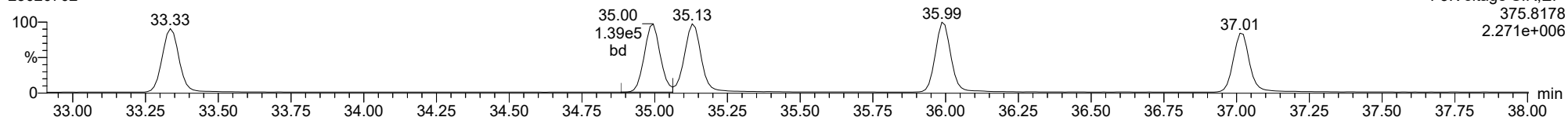
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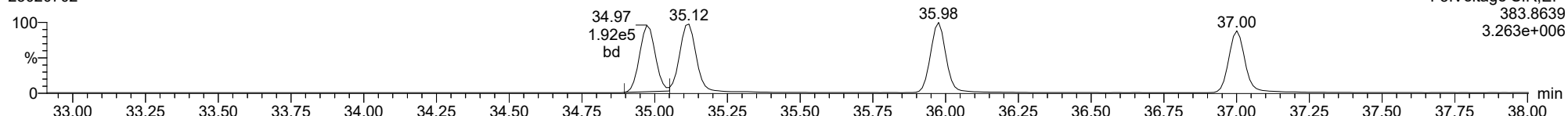
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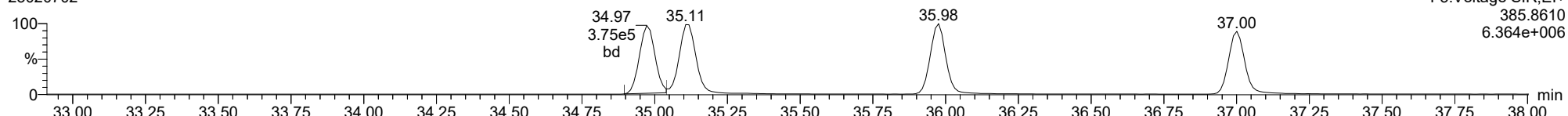
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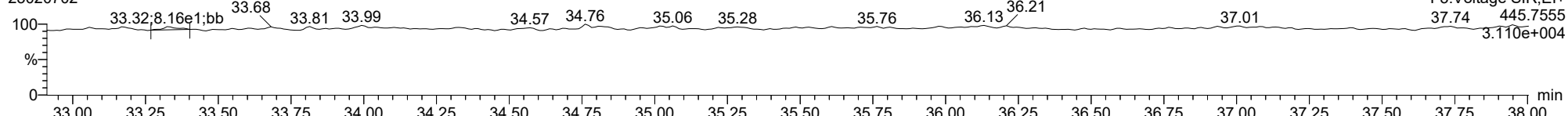
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FUNCTION3 OCDPE

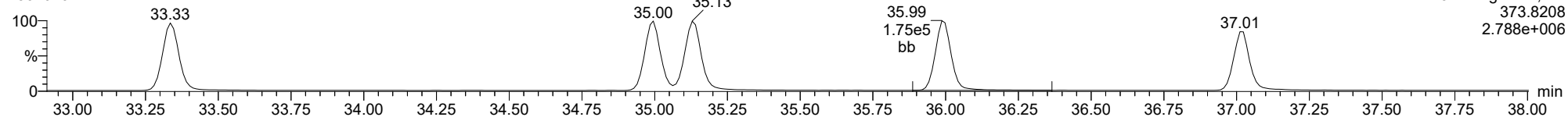
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

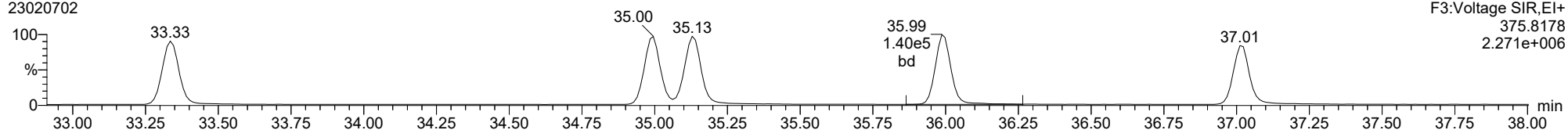
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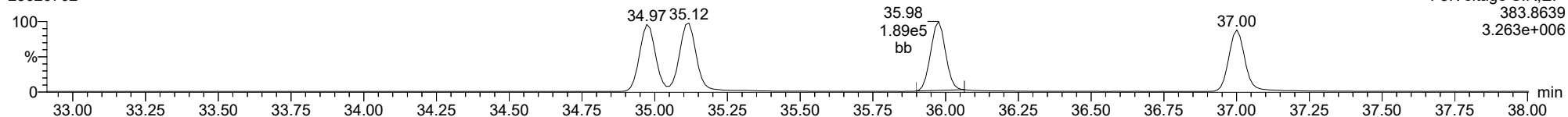
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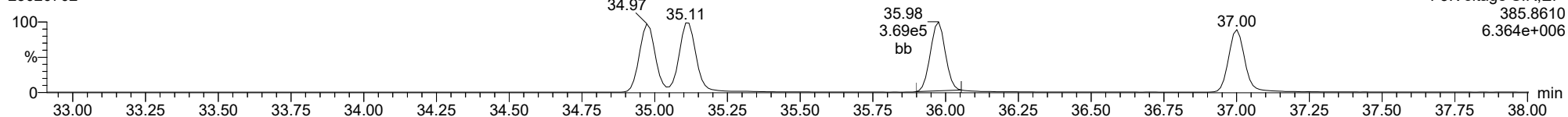
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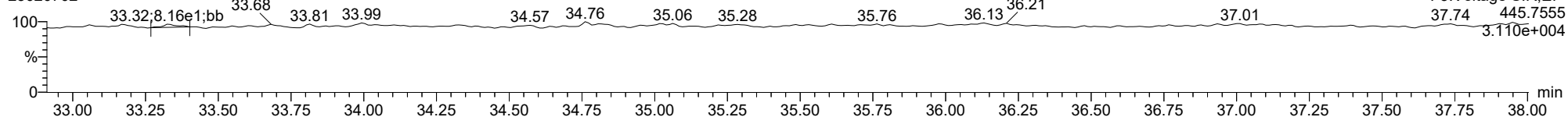
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FUNCTION3 OCDPE

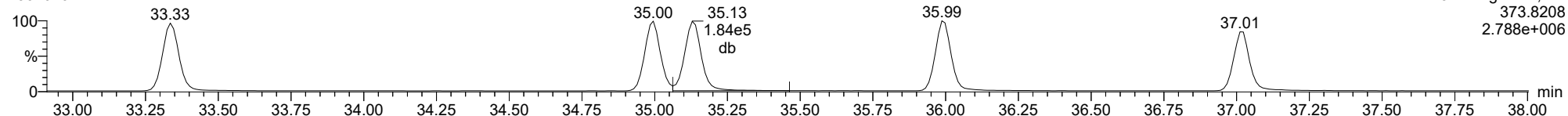
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

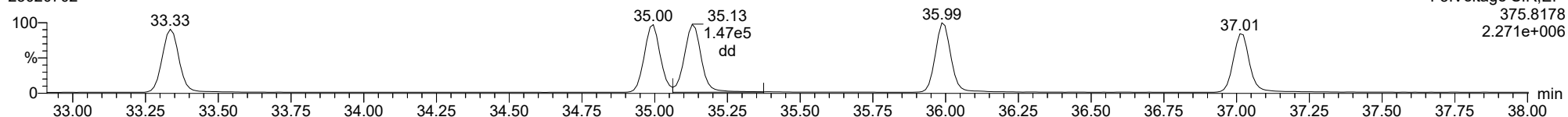
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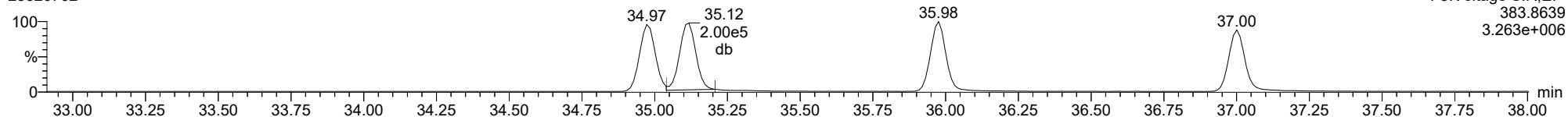
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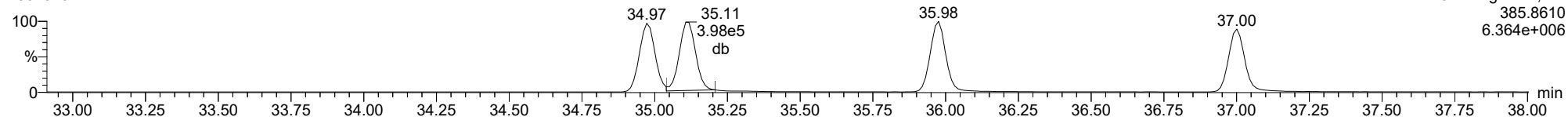
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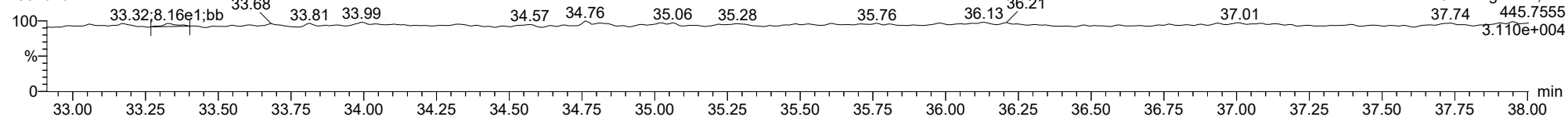
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23020702



FUNCTION3 OCDPE

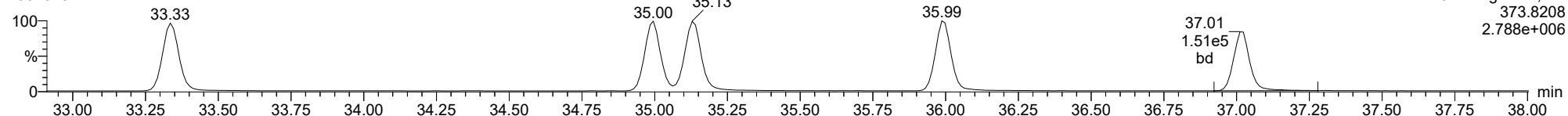
23020702



ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

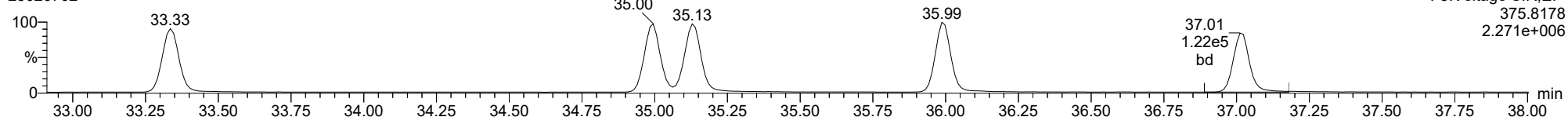
123789-HxCDF

23020702



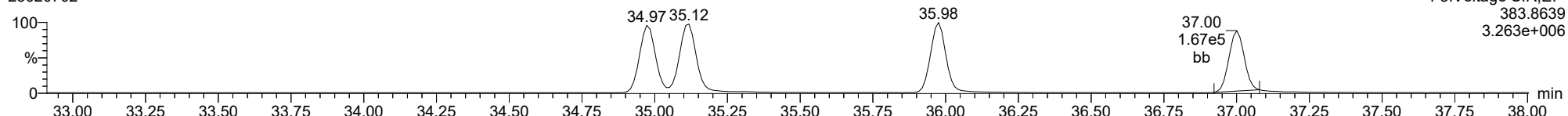
123789-HxCDF

23020702



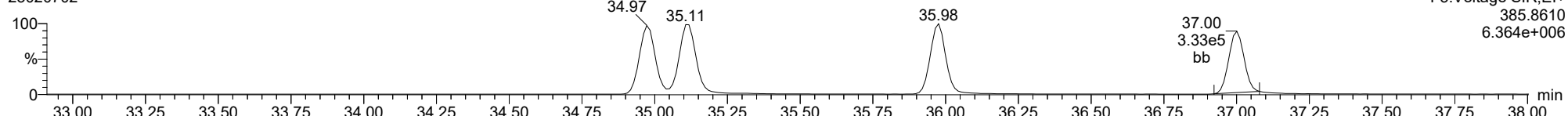
13C-123789-HxCDF

23020702



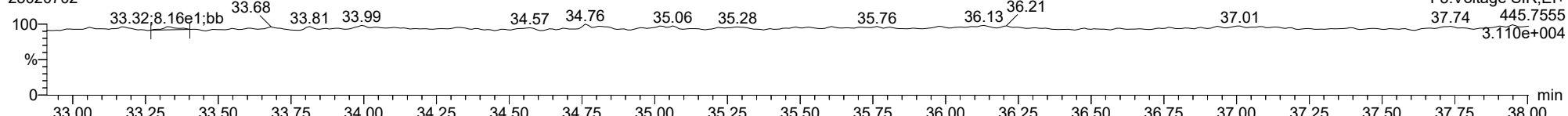
13C-123789-HxCDF

23020702



FUNCTION3 OCDPE

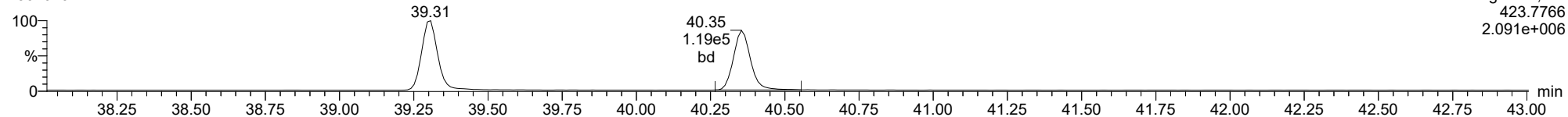
23020702



ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

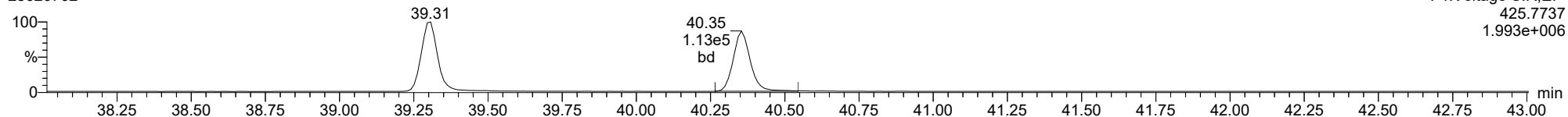
1234678-HpCDD

23020702



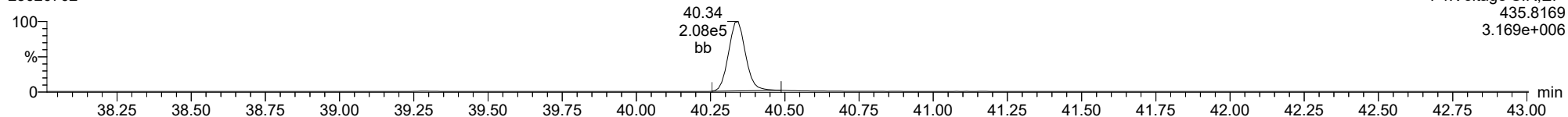
1234678-HpCDD

23020702



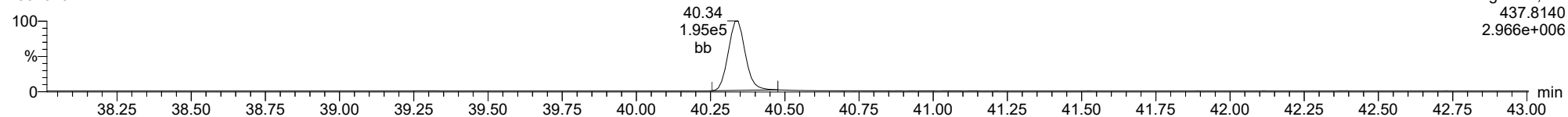
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23020702



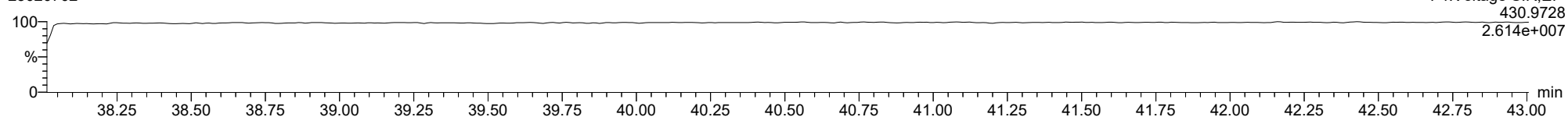
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23020702



FUNCTION4 PFK

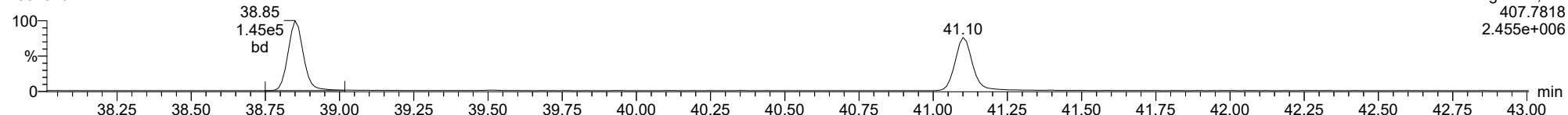
23020702



ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

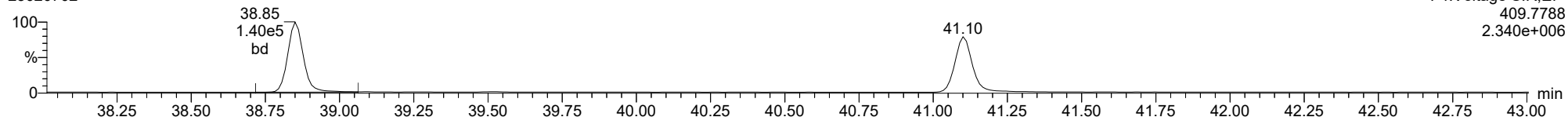
23020702



F4:Voltage SIR,EI+
407.7818
2.455e+006

1234678-HpCDF

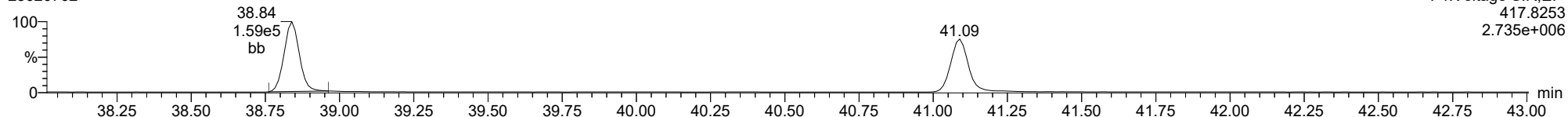
23020702



F4:Voltage SIR,EI+
409.7788
2.340e+006

13C-1234678-HpCDF

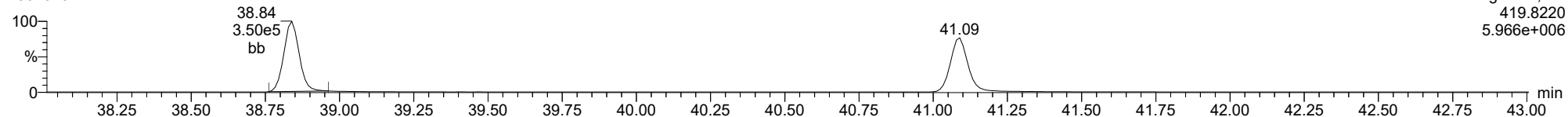
23020702



F4:Voltage SIR,EI+
417.8253
2.735e+006

13C-1234678-HpCDF

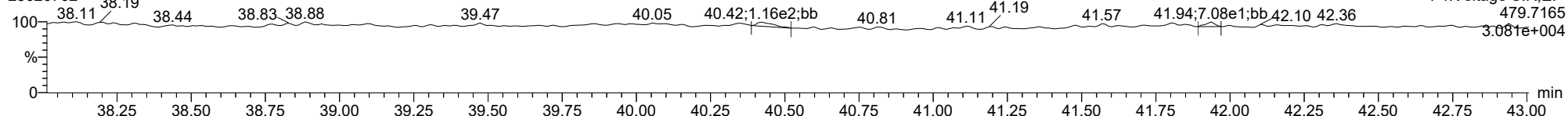
23020702



F4:Voltage SIR,EI+
419.8220
5.966e+006

FUNCTION4 NCDPE

23020702

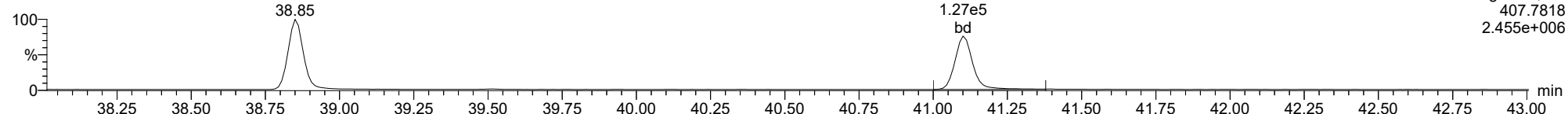


F4:Voltage SIR,EI+
479.7165
3.081e+004

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

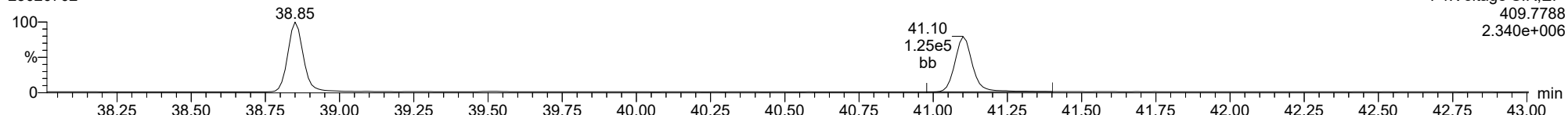
23020702



F4:Voltage SIR,EI+
407.7818
2.455e+006

1234789-HpCDF

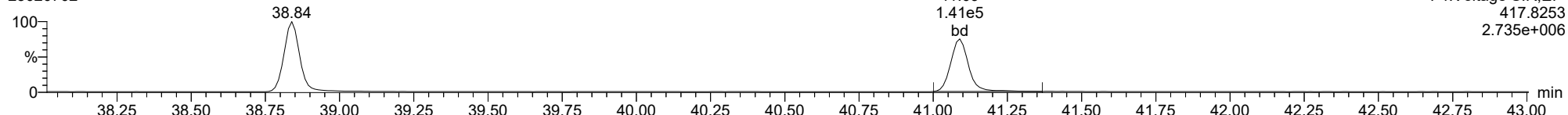
23020702



F4:Voltage SIR,EI+
409.7788
2.340e+006

13C-1234789-HpCDF

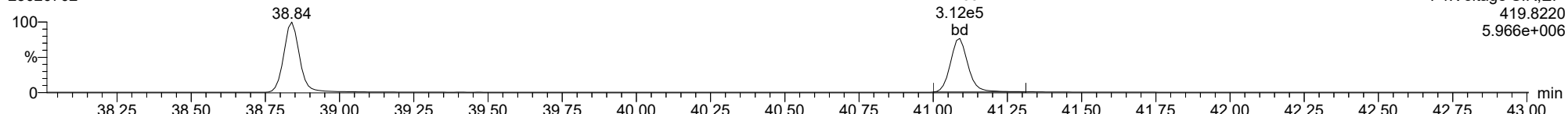
23020702



F4:Voltage SIR,EI+
417.8253
2.735e+006

13C-1234789-HpCDF

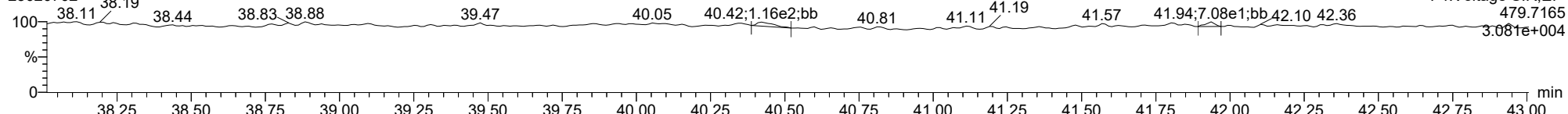
23020702



F4:Voltage SIR,EI+
419.8220
5.966e+006

FUNCTION4 NCDPE

23020702

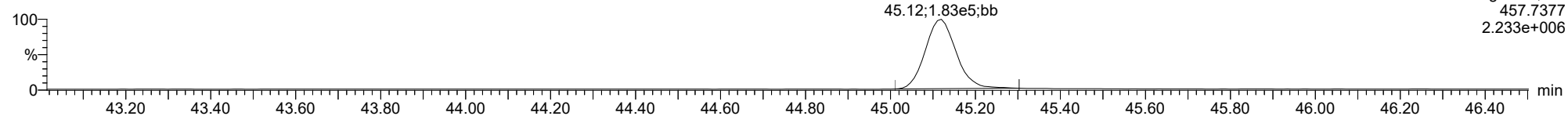


F4:Voltage SIR,EI+
479.7165
3.081e+004

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

OCDD

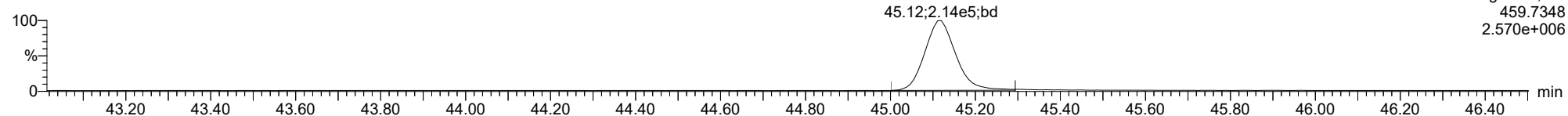
23020702



F5:Voltage SIR,EI+
457.7377
2.233e+006

OCDD

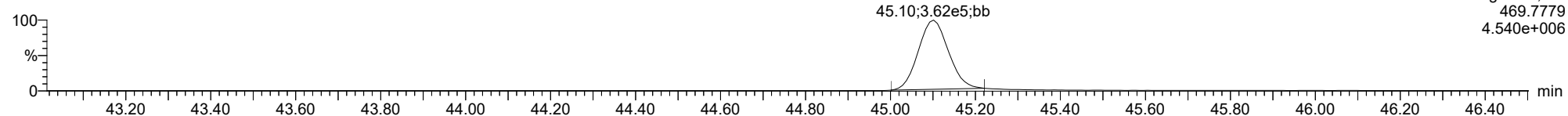
23020702



F5:Voltage SIR,EI+
459.7348
2.570e+006

13C-OCDD

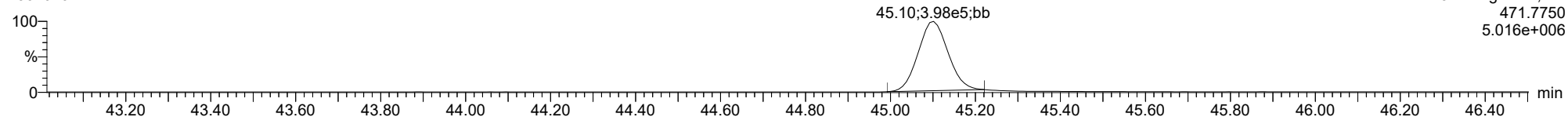
23020702



F5:Voltage SIR,EI+
469.7779
4.540e+006

13C-OCDD

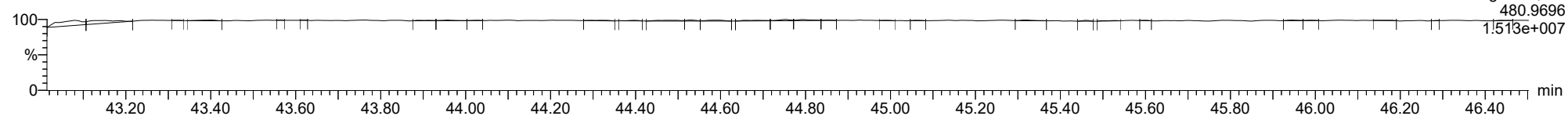
23020702



F5:Voltage SIR,EI+
471.7750
5.016e+006

FUNCTION5 PFK

23020702

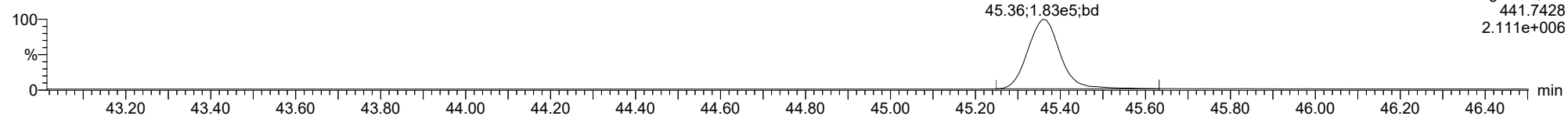


F5:Voltage SIR,EI+
480.9696
1.513e+007

ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

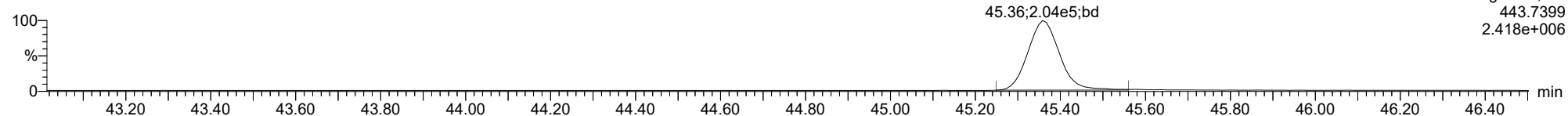
OCDF

23020702



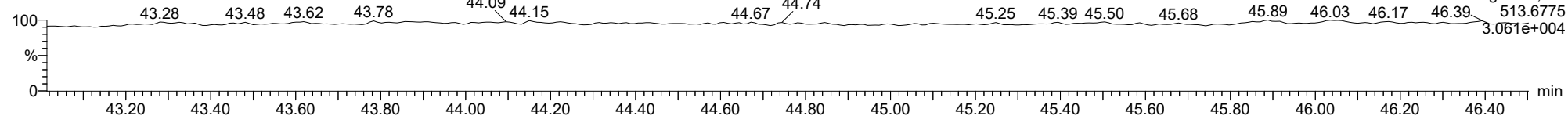
OCDF

23020702



FUNCTION5 DCDPE

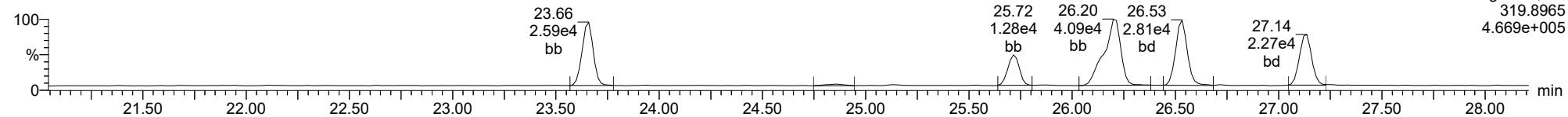
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

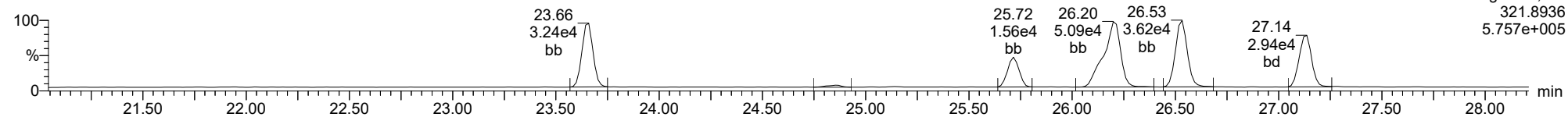
Total-tetradioxins

23020702



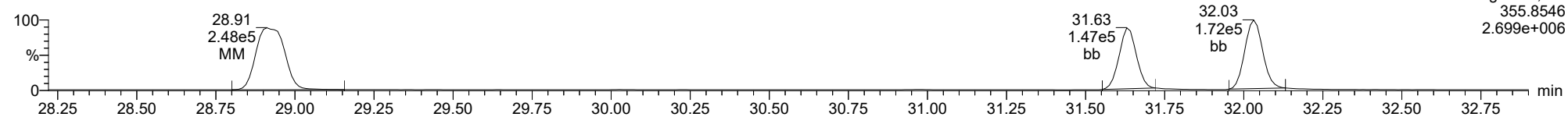
Total-tetradioxins

23020702



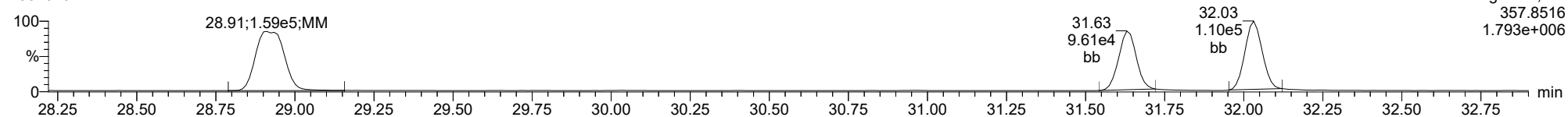
Total-pentadioxins

23020702



Total-pentadioxins

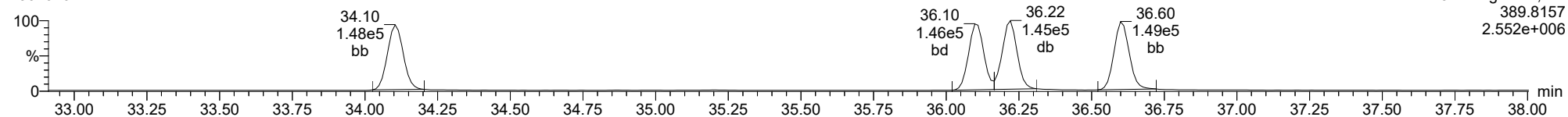
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

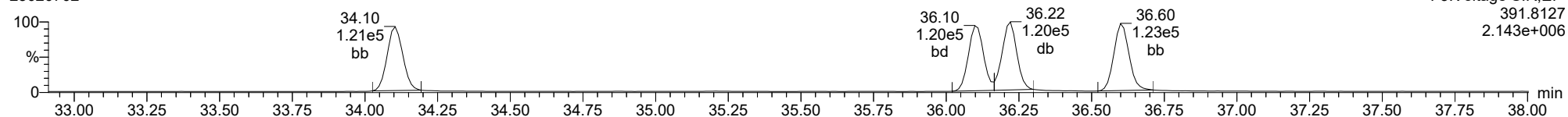
Total-hexadioxins

23020702



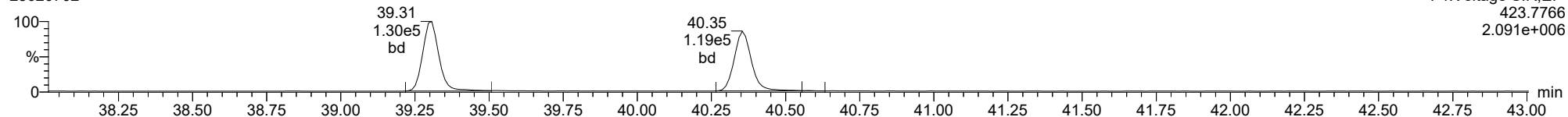
Total-hexadioxins

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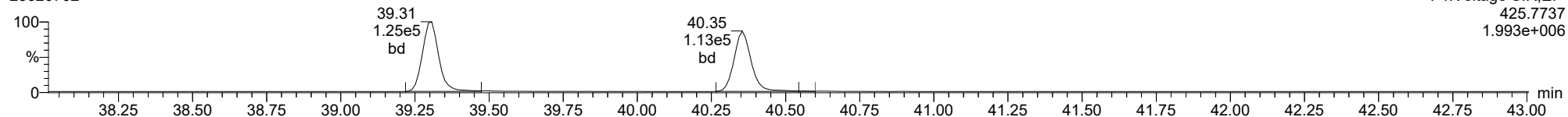
Total-heptadioxins

23020702



Total-heptadioxins

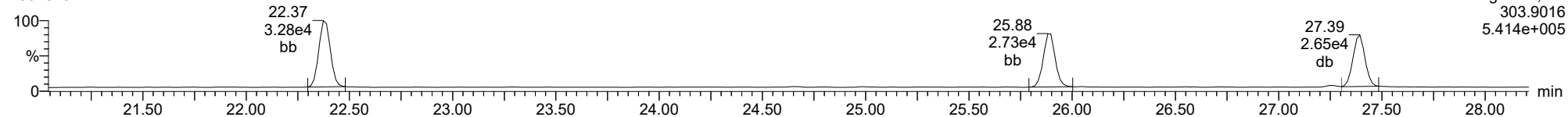
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

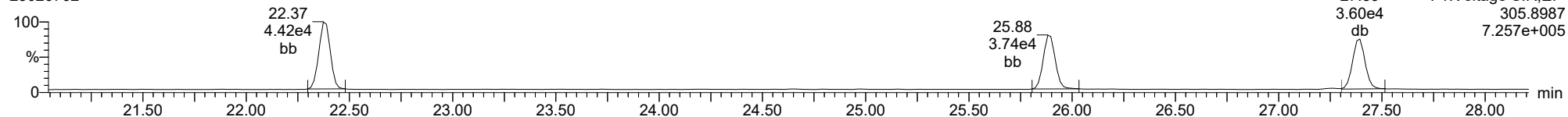
Total-tetrafurans

23020702



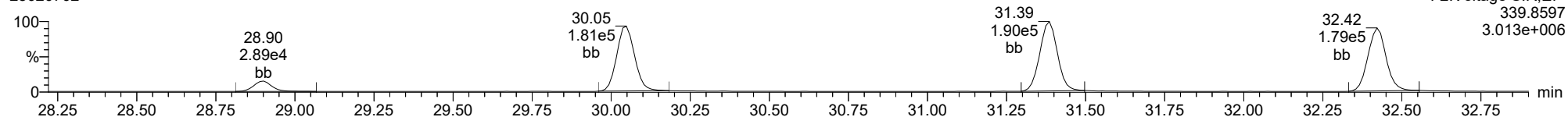
Total-tetrafurans

23020702



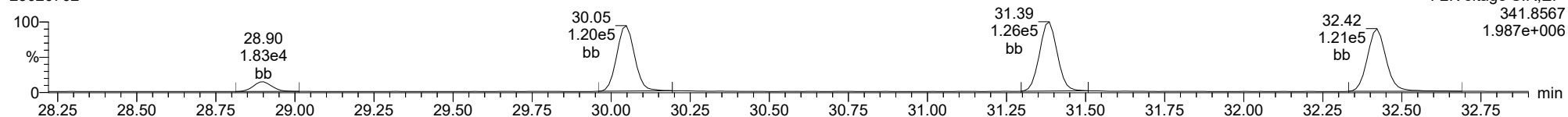
Total-pentafurans

23020702



Total-pentafurans

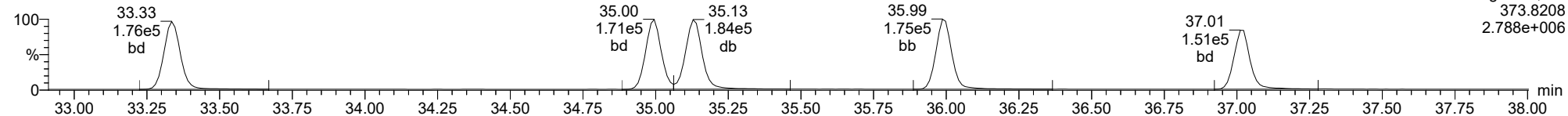
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ID: CS3T1, Name: 23020702, Date: 07-Feb-2023, Time: 09:25:16, Conditions: AUTOSPEC01, User: pk

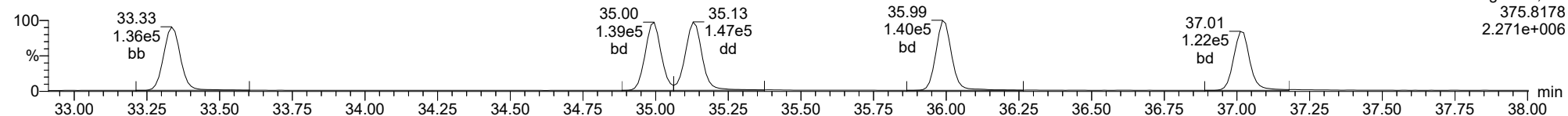
Total-hexafurans

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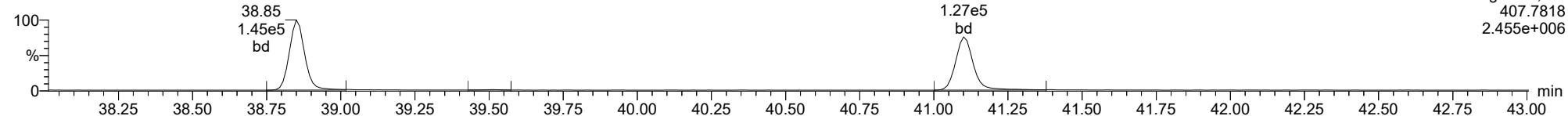
Total-hexafurans

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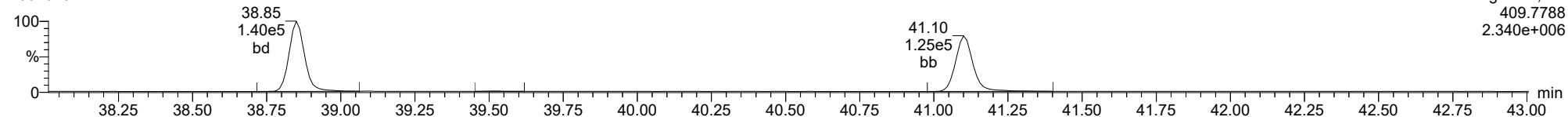
Total-heptafurans

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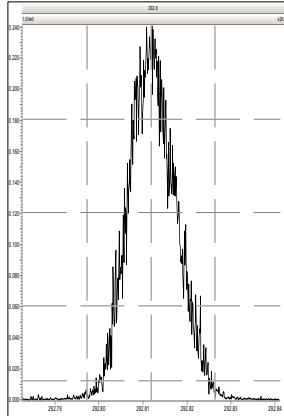


Total-heptafurans

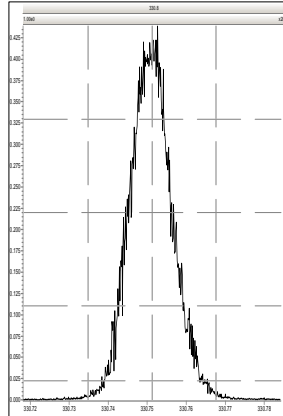
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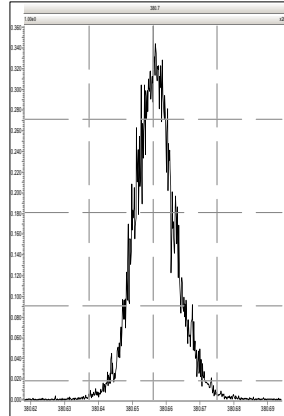
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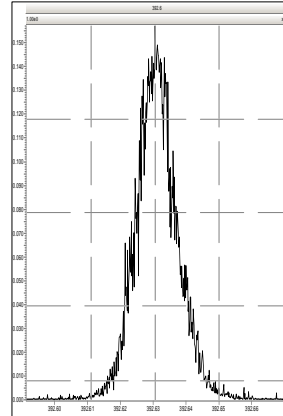
M 330.9792 R 12953



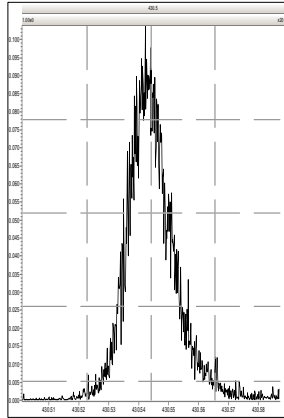
M 380.9760 R 13855



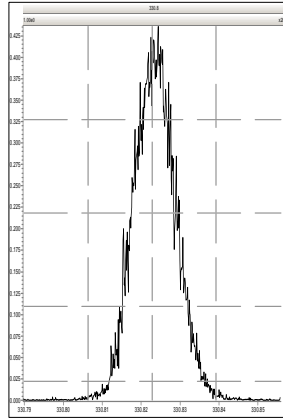
M 392.9760 R 13700



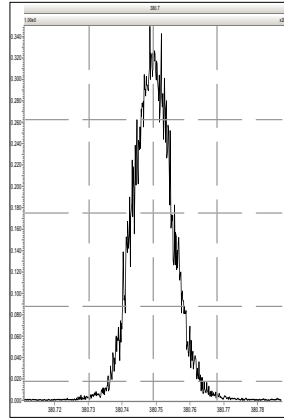
M 430.9728 R 11573



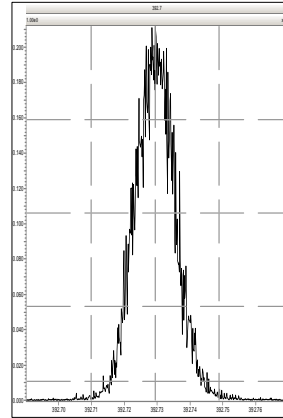
M 330.9792 R 13264



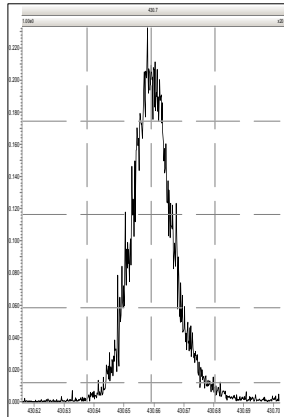
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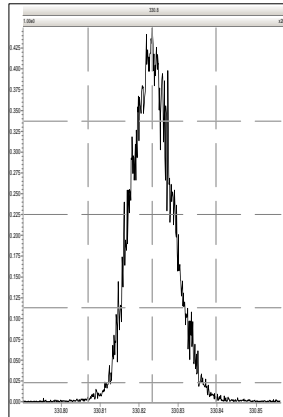
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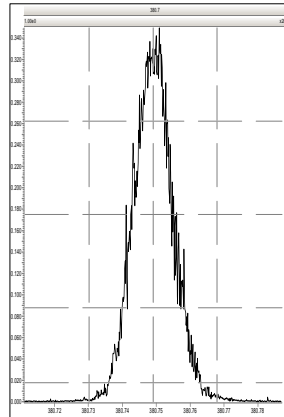
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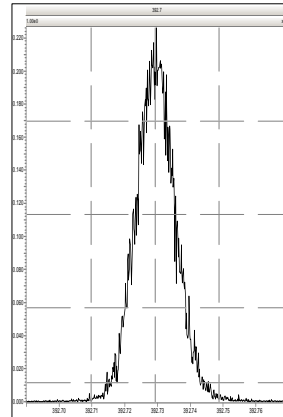
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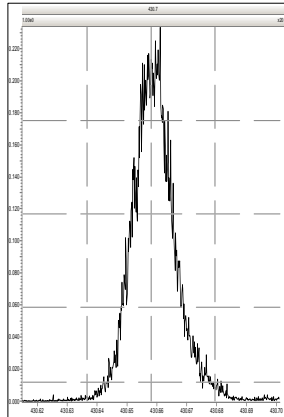
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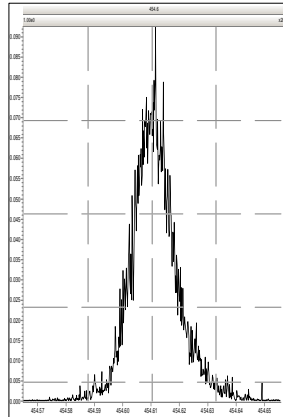
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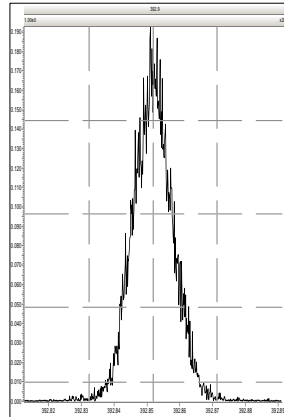
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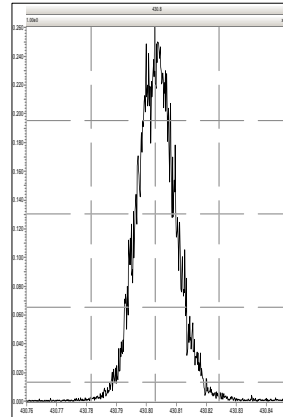
M 454.9728 R 12196



M 392.9760 R 14707

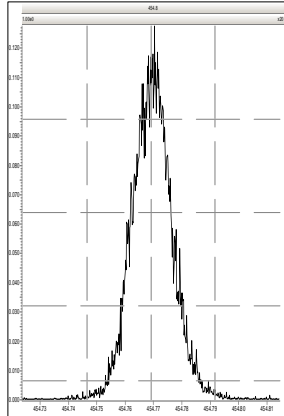


M 430.9728 R 14329

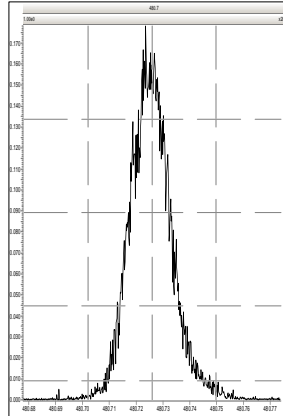


Printed: Tuesday, February 07, 2023 09:21:06 Pacific Standard Time

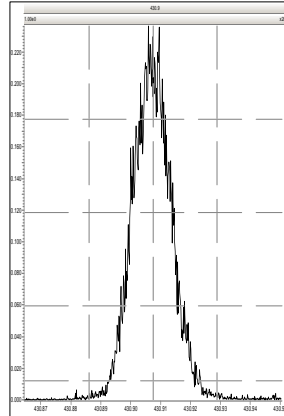
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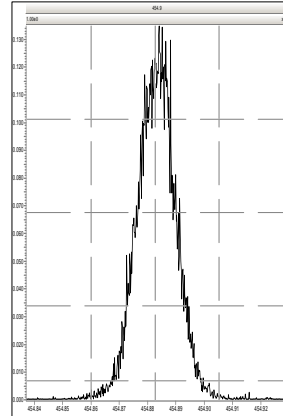
M 480.9696 R 13441



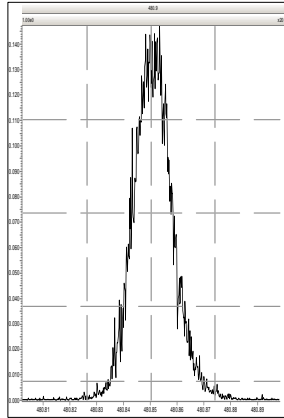
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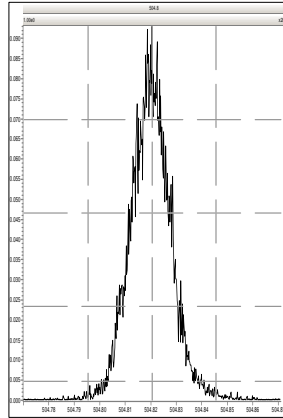
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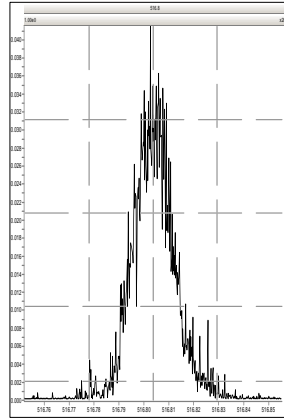
M 480.9696 R 14164



M 504.9696 R 14250



M 516.9697 R 15153

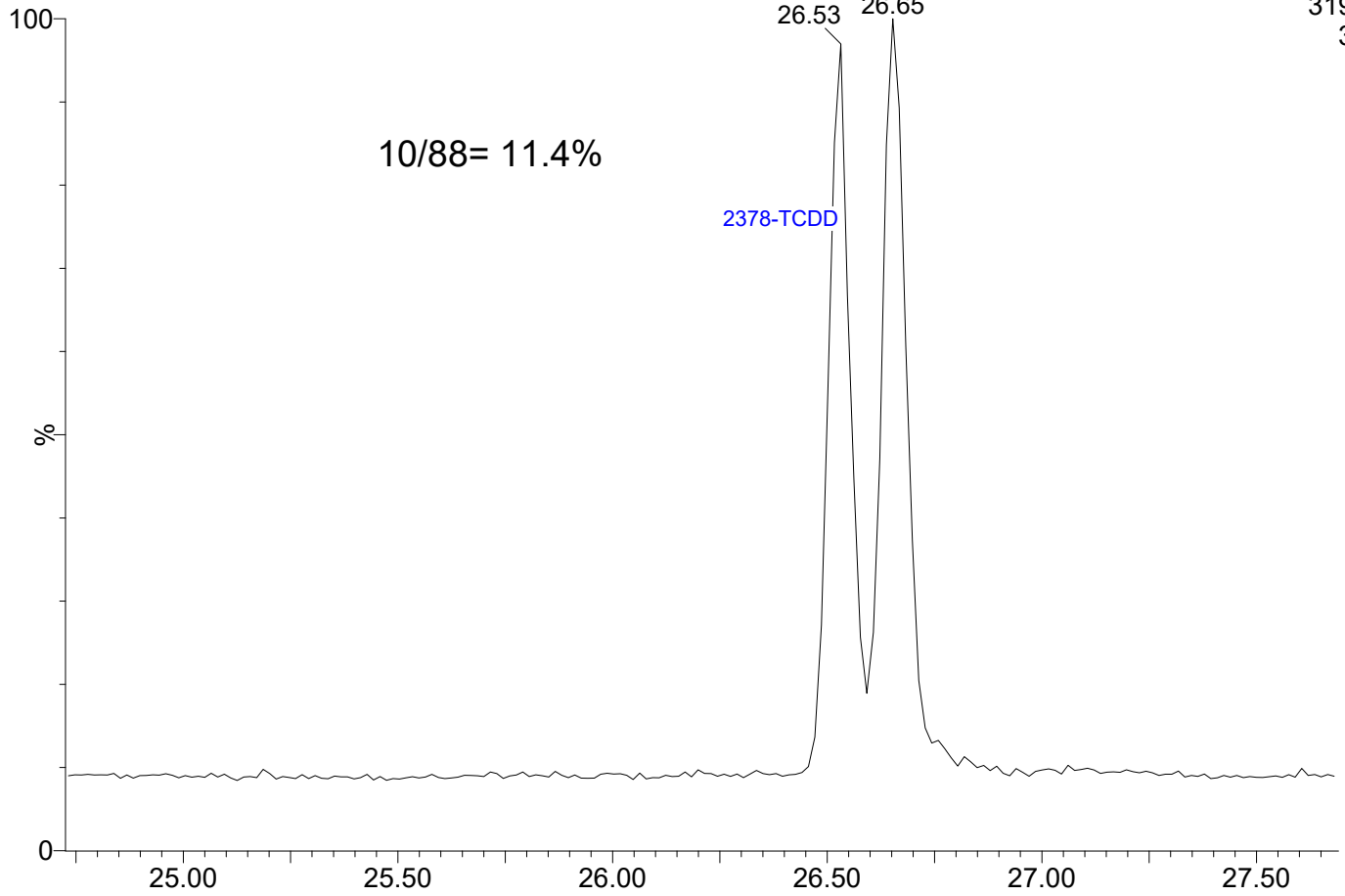


23020703

1: Voltage SIR 15 Channels EI+

319.8965

3.50e5

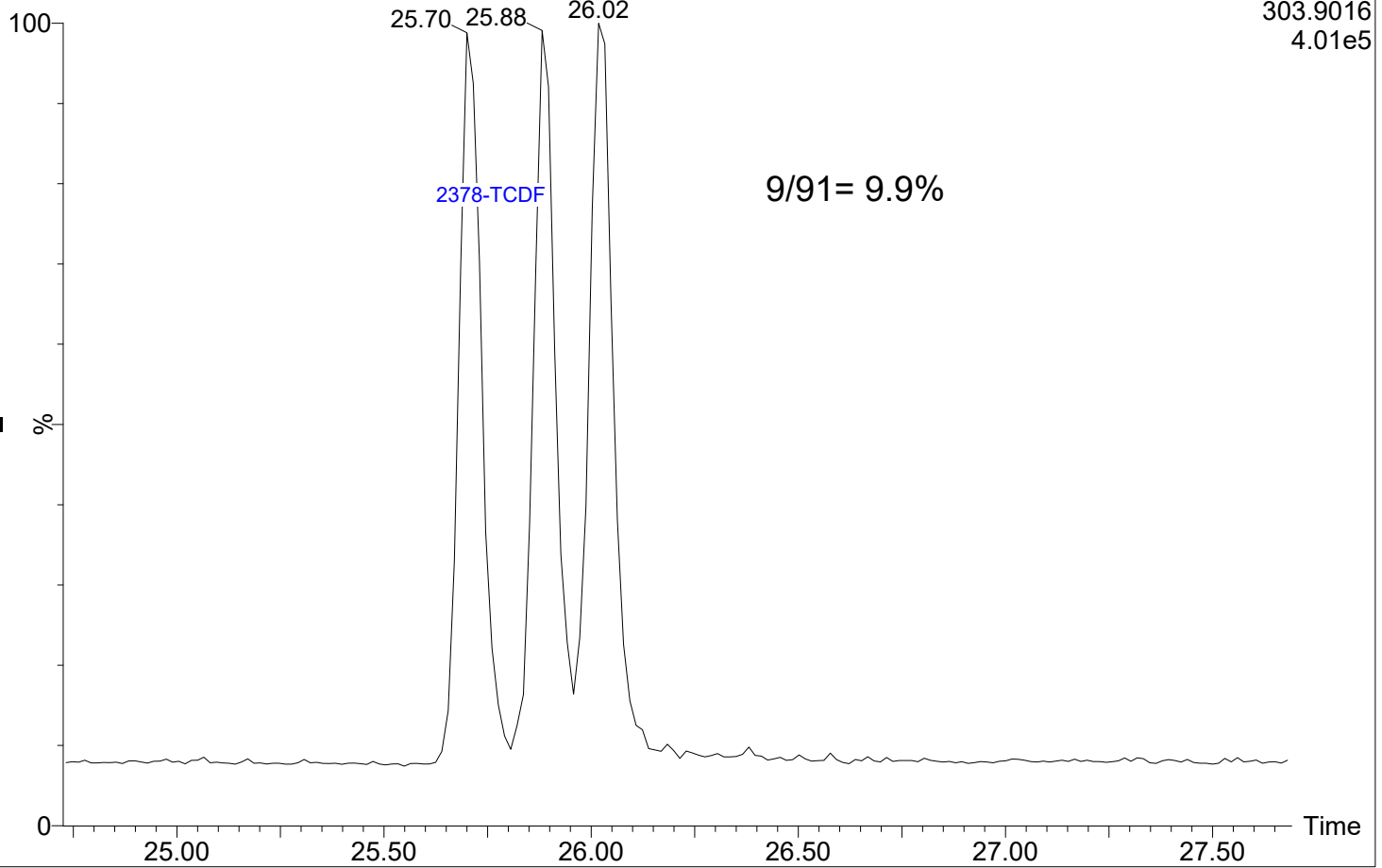


23020703

1: Voltage SIR 15 Channels EI+

303.9016

4.01e5





CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

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: 22L0473

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: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020712

Calibration Date: 02/01/2023

Sequence: SLB0072

Injection Date: 02/07/23

Lab Sample ID: SLB0072-CCV1

Injection Time: 18:03

Sequence Name: CS3T2

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	9.62	0.8760604	0.8425410		-3.8	+/-16
2,3,7,8-TCDD	A	10.000	9.12	1.2363600	1.1279220		-8.8	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.3	0.8446540	0.8333849		-1.3	+/-18
2,3,4,7,8-PeCDF	A	50.000	50.2	0.9111780	0.9145696		0.4	+/-18
1,2,3,7,8-PeCDD	A	50.000	48.9	1.0866850	1.0635240		-2.1	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.2	1.1816860	1.1145670		-5.7	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	46.0	1.2480480	1.1491650		-7.9	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	48.6	1.2288500	1.1942680		-2.8	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.0	1.1865370	1.1151780		-6.0	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	46.3	0.9869672	0.9147686		-7.3	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	46.4	1.0207220	0.9463653		-7.3	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	45.4	0.9854780	0.8955373		-9.1	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.6	1.2041190	1.1462050		-4.8	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.9	1.1653050	1.1174530		-4.1	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	44.8	1.2525690	1.1232850		-10.3	+/-14
OCDF	A	100.00	88.4	1.1862640	1.0487720		-11.6	+/-37
OCDD	A	100.00	92.2	1.1026670	1.0161490		-7.8	+/-21
13C12-2,3,7,8-TCDF	A	100.00	90.4	1.7680590	1.5989330		-9.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	104	1.1029470	1.1513037		4.4	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	96.8	1.5271250	1.4789332		-3.2	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	98.7	1.4662840	1.4477561		-1.3	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	104	0.9141518	0.9514060		4.1	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	98.0	1.0536610	1.0323667		-2.0	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	98.4	1.0799530	1.0621887		-1.6	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	97.4	1.0143260	0.9880678		-2.6	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	99.4	0.9279333	0.9219389		-0.6	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	109	0.9329336	1.0148075		8.8	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	107	0.9646272	1.0358556		7.4	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	90.9	1.0360890	0.9416701		-9.1	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	93.7	0.9049372	0.8477012		-6.3	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	100	0.7819773	0.7837238		0.2	+/-28
13C12-OCDD	A	200.00	181	0.7882343	0.7125389		-9.6	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.10	1.2334500	1.1218993		-9.0	

* Values outside of QC limits

* Values outside of QC limits

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld
 Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time
 Printed: Wednesday, February 08, 2023 09:30:36 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
 Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, 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	3.277e4	4.402e4	0.876	0.744	0.770	997	1584	5.01e5	6.76e5	502.2	426.8	NO	bb	bb	9.617
12378-PeCDF	30.037	1.001	2.126e5	1.387e5	0.845	1.533	1.550	1961	1823	3.25e6	2.15e6	1659.1	1177.0	NO	bb	bb	49.333
23478-PeCDF	31.374	1.001	2.264e5	1.510e5	0.911	1.499	1.550	1961	1823	3.56e6	2.28e6	1816.7	1251.6	NO	bb	dd	50.186
123478-HxCDF	34.995	1.001	2.051e5	1.648e5	1.182	1.245	1.240	1581	1600	3.17e6	2.52e6	2001.9	1575.8	NO	bd	bd	47.160
234678-HxCDF	35.987	1.000	2.102e5	1.692e5	1.229	1.242	1.240	1581	1600	3.32e6	2.69e6	2096.4	1683.4	NO	bb	bb	48.593
123678-HxCDF	35.129	1.000	2.187e5	1.737e5	1.248	1.259	1.240	1581	1600	3.39e6	2.67e6	2142.9	1668.0	NO	db	db	46.038
123789-HxCDF	37.012	1.000	1.837e5	1.468e5	1.187	1.251	1.240	1581	1600	2.81e6	2.27e6	1773.8	1417.9	NO	bd	bb	46.993
1234678-HpCDF	38.850	1.000	1.758e5	1.712e5	1.204	1.027	1.050	2063	1689	2.83e6	2.80e6	1371.7	1657.9	NO	bd	bb	47.595
1234789-HpCDF	41.101	1.000	1.540e5	1.505e5	1.165	1.023	1.050	2063	1689	2.16e6	2.14e6	1046.6	1265.4	NO	bd	bb	47.947
OCDF	45.367	1.006	2.270e5	2.535e5	1.186	0.895	0.890	1195	1577	2.58e6	2.84e6	2156.5	1802.5	NO	bd	bd	88.410
2378-TCDD	26.517	1.001	3.268e4	4.134e4	1.236	0.791	0.770	958	1020	5.06e5	6.20e5	528.3	607.8	NO	bb	bb	9.123
12378-PeCDD	31.631	1.001	1.765e5	1.119e5	1.087	1.578	1.550	1663	1480	2.74e6	1.72e6	1646.9	1162.9	NO	bb	bb	48.934
123478-HxCDD	36.098	1.000	1.629e5	1.355e5	0.987	1.202	1.240	1413	1787	2.76e6	2.30e6	1952.5	1286.8	NO	bd	bd	46.342
123678-HxCDD	36.221	1.001	1.732e5	1.419e5	1.021	1.220	1.240	1413	1787	2.77e6	2.24e6	1958.5	1250.6	NO	db	db	46.358
123789-HxCDD	36.599	1.011	1.629e5	1.322e5	0.985	1.232	1.240	1413	1787	2.60e6	2.13e6	1843.0	1191.0	NO	bb	bb	45.437
1234678-HpCDD	40.354	1.000	1.447e5	1.383e5	1.253	1.046	1.050	1460	1446	2.12e6	2.03e6	1452.7	1404.4	NO	bd	bd	44.839
OCDD	45.120	1.000	2.168e5	2.488e5	1.103	0.871	0.890	1128	726	2.60e6	2.94e6	2303.6	4053.8	NO	bb	bb	92.154
13C-2378-TCDF	25.867	1.007	4.007e5	5.108e5	1.768	0.785	0.770	2076	1628	6.15e6	7.77e6	2965.3	4774.1	NO	bb	bb	90.434
13C-12378-PeCDF	30.015	1.169	5.099e5	3.332e5	1.527	1.530	1.550	2048	1361	7.68e6	5.07e6	3753.0	3723.4	NO	bb	bb	96.844
13C-23478-PeCDF	31.352	1.221	4.998e5	3.256e5	1.466	1.535	1.550	2048	1361	7.66e6	4.94e6	3743.1	3629.9	NO	bb	bb	98.736
13C-123478-HxCDF	34.973	0.956	2.234e5	4.404e5	1.054	0.507	0.510	1394	2029	3.63e6	7.07e6	2601.9	3486.4	NO	bd	bd	97.979
13C-123678-HxCDF	35.118	0.960	2.336e5	4.493e5	1.080	0.520	0.510	1394	2029	3.70e6	7.18e6	2652.9	3540.5	NO	db	db	98.355
13C-234678-HxCDF	35.976	0.983	2.155e5	4.198e5	1.014	0.513	0.510	1394	2029	3.61e6	6.99e6	2592.2	3445.0	NO	bb	bb	97.411
13C-123789-HxCDF	37.001	1.011	1.992e5	3.936e5	0.928	0.506	0.510	1394	2029	3.27e6	6.47e6	2343.4	3188.4	NO	bb	bb	99.354
13C-1234678-HpCDF	38.839	1.062	1.870e5	4.184e5	1.036	0.447	0.440	1688	2097	3.12e6	7.10e6	1847.8	3384.0	NO	bb	bb	90.887
13C-1234789-HpCDF	41.090	1.123	1.676e5	3.774e5	0.905	0.444	0.440	1688	2097	2.41e6	5.32e6	1425.7	2535.6	NO	bd	bd	93.675
13C-1234-TCDD	25.685	0.000	2.526e5	3.174e5	1.000	0.796	0.770	1770	1120	4.00e6	5.00e6	2260.7	4465.7	NO	bb	bb	100.000
13C-2378-TCDD	26.502	1.032	2.894e5	3.669e5	1.103	0.789	0.770	1770	1120	4.37e6	5.52e6	2468.5	4931.0	NO	bb	bb	104.384
13C-12378-PeCDD	31.608	1.231	3.343e5	2.080e5	0.914	1.607	1.550	889	1886	4.93e6	3.13e6	5548.9	1657.3	NO	bb	bd	104.075
13C-123478-HxCDD	36.087	0.986	3.637e5	2.888e5	0.933	1.260	1.240	2336	1276	6.15e6	4.85e6	2633.3	3799.7	NO	bd	bd	108.776
13C-123678-HxCDD	36.199	0.989	3.733e5	2.927e5	0.965	1.275	1.240	2336	1276	6.04e6	4.76e6	2587.7	3729.2	NO	db	db	107.384
13C-1234678-HpCDD	40.343	1.103	2.613e5	2.426e5	0.782	1.077	1.050	1333	1266	3.89e6	3.61e6	2916.8	2849.1	NO	bb	bd	100.223
13C-OCDD	45.102	1.233	4.384e5	4.778e5	0.788	0.918	0.890	1711	1145	5.34e6	5.74e6	3120.2	5013.8	NO	bb	bb	180.794
13C-123789-HxCDD	36.588	0.000	3.587e5	2.843e5	1.000	1.262	1.240	2336	1276	5.81e6	4.66e6	2488.9	3649.7	NO	bb	bb	100.000
37CL-2378-TCDD	26.517	1.032	6.396e4		1.233			1329		9.96e5		749.5			bb		9.096

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, 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	22.359	0.864	3.726e4	4.903e4	1.064	0.760	0.770	997	1584	5.78e5	7.73e5	579.4	488.1	NO	bb	bb	8.893
1289-TCDF	27.378	1.058	3.235e4	4.245e4	0.858	0.762	0.770	997	1584	4.84e5	6.44e5	485.1	406.4	NO	db	db	9.568
13468-PECDF	27.227	0.907	2.740e5	1.745e5	1.013	1.570	1.550	654	870	4.19e6	2.73e6	6408.0	3144.6	NO	bb	bb	52.525
12389-PECDF	32.410	1.080	2.153e5	1.414e5	0.844	1.523	1.550	1961	1823	3.23e6	2.12e6	1649.2	1162.6	NO	bb	bb	50.151
123468-HXCDF	33.335	0.953	2.054e5	1.657e5	1.197	1.239	1.240	1581	1600	3.06e6	2.52e6	1933.1	1573.0	NO	bb	bb	46.698
1368-TCDD	23.644	0.892	2.987e4	3.899e4	1.084	0.766	0.770	958	1020	4.60e5	6.04e5	479.8	592.3	NO	bb	bb	9.676
1289-TCDD	27.122	1.023	2.843e4	3.757e4	0.975	0.757	0.770	958	1020	4.28e5	5.60e5	447.1	549.0	NO	bb	bb	10.311
12479-PECDD	28.912	0.915	2.811e5	1.811e5	1.837	1.552	1.550	1663	1480	2.72e6	1.74e6	1635.6	1173.4	NO	bb	bb	46.381
12389-PECDD	32.021	1.013	2.046e5	1.300e5	1.252	1.574	1.550	1663	1480	3.09e6	2.00e6	1858.7	1348.7	NO	bb	bb	49.269
124679-HXCDD	34.104	0.945	1.714e5	1.381e5	1.033	1.241	1.240	1413	1787	2.67e6	2.17e6	1887.9	1214.4	NO	bb	bb	45.934
1234679-HPCDD	39.307	0.974	1.602e5	1.563e5	1.286	1.025	1.050	1460	1446	2.52e6	2.40e6	1728.2	1661.6	NO	bd	bd	48.826
Total-tetrafurans			1.033e5		0.933			997		1.58e6							28.328
Total-penta1			2.740e5					654		4.19e6							52.525
Total-pentafurans			6.875e5		0.866			1961		1.06e7							157.288
Total-hexafurans			1.023e6		1.208			1581		1.57e7							235.482
Total-heptafurans			3.298e5		1.185			2063		4.99e6							95.542
Total-Furans			2.645e6		1.067			997		3.96e7							657.574
Total-tetradoxins			1.549e5		1.099			958		2.14e6							49.032
Total-pentadoxins			6.628e5		1.392			1663		8.56e6							144.714
Total-hexadoxins			6.722e5		1.007			1413		1.08e7							184.532
Total-heptadoxins			3.048e5		1.269			1460		4.65e6							93.665
Total-Dioxins			2.012e6		1.165			958		2.88e7							564.097
Total-TEQ			4.656e6					958		6.84e7							1221.671
FUNCTION1 PFK			2.655e7					338448		1.39e8							
FUNCTION2 PFK			6.100e3					202881		3.37e5							0.000
FUNCTION3 PFK			1.677e7					268870		1.67e7							0.000
FUNCTION4 PFK			4.680e4					186506		1.19e6							
FUNCTION5 PFK			9.757e4					125142		3.45e6							
FUNCTION1 HXCD...			5.883e2					719		8.53e3							0.000
FUNCTION1 HPCD...			7.087e2					765		9.46e3							0.000
FUNCTION2 HPCD...			4.761e2					974		7.53e3							0.000
FUNCTION3 OCDPE			5.293e2					700		7.57e3							0.000
FUNCTION4 NCDPE			6.561e2					933		1.27e4							0.000
FUNCTION5 DCDPE			7.441e1					685		1.58e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

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Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10**Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, 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	3.235e4	4.245e4	0.858	0.76	0.77	485.1	YES	NO	db	db	9.568
2	Total-tetrafurans	27.24	8.735e2	1.247e3	0.933	0.70	0.77	14.5	YES	NO	bd	bd	0.249
3	2378-TCDF	25.88	3.277e4	4.402e4	0.876	0.74	0.77	502.2	YES	NO	bb	bb	9.617
4	1368-TCDF	22.36	3.726e4	4.903e4	1.064	0.76	0.77	579.4	YES	NO	bb	bb	8.893

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDFF	27.23	2.740e5	1.745e5	1.013	1.57	1.55	6408.0	YES	NO	bb	bb	52.525

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	30.20	1.837e2	1.243e2	0.866	1.48	1.55	2.4	NO	NO	bb	bb	0.043
2	12378-PeCDF	30.04	2.126e5	1.387e5	0.845	1.53	1.55	1659.1	YES	NO	bb	bb	49.333
3	Total-pentafurans	28.89	3.289e4	2.164e4	0.866	1.52	1.55	257.1	YES	NO	bb	bb	7.545
4	12389-PECDF	32.41	2.153e5	1.414e5	0.844	1.52	1.55	1649.2	YES	NO	bb	bb	50.151
5	Total-pentafurans	31.62	1.344e2	7.833e1	0.866	1.72	1.55	1.9	NO	NO	bb	db	0.029
6	23478-PeCDF	31.37	2.264e5	1.510e5	0.911	1.50	1.55	1816.7	YES	NO	bb	dd	50.186

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	37.01	1.837e5	1.468e5	1.187	1.25	1.24	1773.8	YES	NO	bd	bb	46.993
2	234678-HxCDF	35.99	2.102e5	1.692e5	1.229	1.24	1.24	2096.4	YES	NO	bb	bb	48.593
3	123678-HxCDF	35.13	2.187e5	1.737e5	1.248	1.26	1.24	2142.9	YES	NO	db	db	46.038
4	123478-HxCDF	35.00	2.051e5	1.648e5	1.182	1.24	1.24	2001.9	YES	NO	bd	bd	47.160
5	123468-HXCDF	33.34	2.054e5	1.657e5	1.197	1.24	1.24	1933.1	YES	NO	bb	bb	46.698

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	1.540e5	1.505e5	1.165	1.02	1.05	1046.6	YES	NO	bd	bb	47.947
2	1234678-HpCDF	38.85	1.758e5	1.712e5	1.204	1.03	1.05	1371.7	YES	NO	bd	bb	47.595

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	27.38	3.235e4	4.245e4	0.858	0.76	0.77	485.1	YES	NO	db	db	9.568
2	Total-tetrafurans	27.24	8.735e2	1.247e3	0.933	0.70	0.77	14.5	YES	NO	bd	bd	0.249
3	2378-TCDF	25.88	3.277e4	4.402e4	0.876	0.74	0.77	502.2	YES	NO	bb	bb	9.617
4	1368-TCDF	22.36	3.726e4	4.903e4	1.064	0.76	0.77	579.4	YES	NO	bb	bb	8.893
5	Total-pentafurans	30.20	1.837e2	1.243e2	0.866	1.48	1.55	2.4	NO	NO	bb	bb	0.043
6	12378-PeCDF	30.04	2.126e5	1.387e5	0.845	1.53	1.55	1659.1	YES	NO	bb	bb	49.333
7	Total-pentafurans	28.89	3.289e4	2.164e4	0.866	1.52	1.55	257.1	YES	NO	bb	bb	7.545
8	12389-PECDF	32.41	2.153e5	1.414e5	0.844	1.52	1.55	1649.2	YES	NO	bb	bb	50.151
9	Total-pentafurans	31.62	1.344e2	7.833e1	0.866	1.72	1.55	1.9	NO	NO	bb	db	0.029
10	23478-PeCDF	31.37	2.264e5	1.510e5	0.911	1.50	1.55	1816.7	YES	NO	bb	dd	50.186
11	123789-HxCDF	37.01	1.837e5	1.468e5	1.187	1.25	1.24	1773.8	YES	NO	bd	bb	46.993
12	234678-HxCDF	35.99	2.102e5	1.692e5	1.229	1.24	1.24	2096.4	YES	NO	bb	bb	48.593
13	123678-HxCDF	35.13	2.187e5	1.737e5	1.248	1.26	1.24	2142.9	YES	NO	db	db	46.038
14	123478-HxCDF	35.00	2.051e5	1.648e5	1.182	1.24	1.24	2001.9	YES	NO	bd	bd	47.160
15	123468-HXCDF	33.34	2.054e5	1.657e5	1.197	1.24	1.24	1933.1	YES	NO	bb	bb	46.698
16	1234789-HpCDF	41.10	1.540e5	1.505e5	1.165	1.02	1.05	1046.6	YES	NO	bd	bb	47.947
17	1234678-HpCDF	38.85	1.758e5	1.712e5	1.204	1.03	1.05	1371.7	YES	NO	bd	bb	47.595
18	OCDF	45.37	2.270e5	2.535e5	1.186	0.90	0.89	2156.5	YES	NO	bd	bd	88.410
19	13468-PECDF	27.23	2.740e5	1.745e5	1.013	1.57	1.55	6408.0	YES	NO	bb	bb	52.525

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.12	2.843e4	3.757e4	0.975	0.76	0.77	447.1	YES	NO	bb	bb	10.311
2	2378-TCDD	26.52	3.268e4	4.134e4	1.236	0.79	0.77	528.3	YES	NO	bb	bb	9.123
3	Total-tetradoxins	26.20	4.683e4	5.977e4	1.099	0.78	0.77	505.8	YES	NO	bb	bb	14.785
4	Total-tetradoxins	25.70	1.574e4	1.835e4	1.099	0.86	0.77	259.4	YES	NO	bb	bb	4.728
5	Total-tetradoxins	24.82	1.366e3	1.588e3	1.099	0.86	0.77	14.0	YES	NO	bb	db	0.410
6	1368-TCDD	23.64	2.987e4	3.899e4	1.084	0.77	0.77	479.8	YES	NO	bb	bb	9.676

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.91	2.811e5	1.811e5	1.837	1.55	1.55	1635.6	YES	NO	bb	bb	46.381
2	12389-PECDD	32.02	2.046e5	1.300e5	1.252	1.57	1.55	1858.7	YES	NO	bb	bb	49.269
3	12378-PeCDD	31.63	1.765e5	1.119e5	1.087	1.58	1.55	1646.9	YES	NO	bb	bb	48.934
4	Total-pentadoxins	30.03	5.772e2	4.005e2	1.392	1.44	1.55	5.3	YES	NO	bb	bb	0.130

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	Total-hexadioxins	37.00	4.202e2	2.992e2	1.007	1.40	1.24	6.2	NO	NO	bd	bb	0.108
2	123789-HxCDD	36.60	1.629e5	1.322e5	0.985	1.23	1.24	1843.0	YES	NO	bb	bb	45.437
3	123678-HxCDD	36.22	1.732e5	1.419e5	1.021	1.22	1.24	1958.5	YES	NO	db	db	46.358
4	123478-HxCDD	36.10	1.629e5	1.355e5	0.987	1.20	1.24	1952.5	YES	NO	bd	bd	46.342
5	Total-hexadioxins	35.18	1.270e3	1.070e3	1.007	1.19	1.24	8.9	YES	NO	bb	bb	0.353
6	124679-HXCDD	34.10	1.714e5	1.381e5	1.033	1.24	1.24	1887.9	YES	NO	bb	bb	45.934

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.31	1.602e5	1.563e5	1.286	1.02	1.05	1728.2	YES	NO	bd	bd	48.826
2	1234678-HpCDD	40.35	1.447e5	1.383e5	1.253	1.05	1.05	1452.7	YES	NO	bd	bd	44.839

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	2.843e4	3.757e4	0.975	0.76	0.77	447.1	YES	NO	bb	bb	10.311
2	2378-TCDD	26.52	3.268e4	4.134e4	1.236	0.79	0.77	528.3	YES	NO	bb	bb	9.123
3	Total-tetradioxins	26.20	4.683e4	5.977e4	1.099	0.78	0.77	505.8	YES	NO	bb	bb	14.785
4	Total-tetradioxins	25.70	1.574e4	1.835e4	1.099	0.86	0.77	259.4	YES	NO	bb	bb	4.728
5	Total-tetradioxins	24.82	1.366e3	1.588e3	1.099	0.86	0.77	14.0	YES	NO	bb	db	0.410
6	1368-TCDD	23.64	2.987e4	3.899e4	1.084	0.77	0.77	479.8	YES	NO	bb	bb	9.676
7	12479-PECDD	28.91	2.811e5	1.811e5	1.837	1.55	1.55	1635.6	YES	NO	bb	bb	46.381
8	12389-PECDD	32.02	2.046e5	1.300e5	1.252	1.57	1.55	1858.7	YES	NO	bb	bb	49.269
9	12378-PeCDD	31.63	1.765e5	1.119e5	1.087	1.58	1.55	1646.9	YES	NO	bb	bb	48.934
10	Total-pentadioxins	30.03	5.772e2	4.005e2	1.392	1.44	1.55	5.3	YES	NO	bb	bb	0.130
11	Total-hexadioxins	37.00	4.202e2	2.992e2	1.007	1.40	1.24	6.2	NO	NO	bd	bb	0.108
12	123789-HxCDD	36.60	1.629e5	1.322e5	0.985	1.23	1.24	1843.0	YES	NO	bb	bb	45.437
13	123678-HxCDD	36.22	1.732e5	1.419e5	1.021	1.22	1.24	1958.5	YES	NO	db	db	46.358
14	123478-HxCDD	36.10	1.629e5	1.355e5	0.987	1.20	1.24	1952.5	YES	NO	bd	bd	46.342
15	Total-hexadioxins	35.18	1.270e3	1.070e3	1.007	1.19	1.24	8.9	YES	NO	bb	bb	0.353
16	124679-HXCDD	34.10	1.714e5	1.381e5	1.033	1.24	1.24	1887.9	YES	NO	bb	bb	45.934
17	1234679-HPCDD	39.31	1.602e5	1.563e5	1.286	1.02	1.05	1728.2	YES	NO	bd	bd	48.826
18	OCDD	45.12	2.168e5	2.488e5	1.103	0.87	0.89	2303.6	YES	NO	bb	bb	92.154
19	1234678-HpCDD	40.35	1.447e5	1.383e5	1.253	1.05	1.05	1452.7	YES	NO	bd	bd	44.839

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	27.38	3.235e4	4.245e4	0.858	0.76	0.77	485.1	YES	NO	db	db	9.568
2	Total-tetrafurans	27.24	8.735e2	1.247e3	0.933	0.70	0.77	14.5	YES	NO	bd	bd	0.249
3	2378-TCDF	25.88	3.277e4	4.402e4	0.876	0.74	0.77	502.2	YES	NO	bb	bb	9.617
4	1368-TCDF	22.36	3.726e4	4.903e4	1.064	0.76	0.77	579.4	YES	NO	bb	bb	8.893
5	Total-pentafurans	30.20	1.837e2	1.243e2	0.866	1.48	1.55	2.4	NO	NO	bb	bb	0.043
6	12378-PeCDF	30.04	2.126e5	1.387e5	0.845	1.53	1.55	1659.1	YES	NO	bb	bb	49.333
7	Total-pentafurans	28.89	3.289e4	2.164e4	0.866	1.52	1.55	257.1	YES	NO	bb	bb	7.545
8	12389-PECDF	32.41	2.153e5	1.414e5	0.844	1.52	1.55	1649.2	YES	NO	bb	bb	50.151
9	Total-pentafurans	31.62	1.344e2	7.833e1	0.866	1.72	1.55	1.9	NO	NO	bb	db	0.029
10	23478-PeCDF	31.37	2.264e5	1.510e5	0.911	1.50	1.55	1816.7	YES	NO	bb	dd	50.186
11	123789-HxCDF	37.01	1.837e5	1.468e5	1.187	1.25	1.24	1773.8	YES	NO	bd	bb	46.993
12	234678-HxCDF	35.99	2.102e5	1.692e5	1.229	1.24	1.24	2096.4	YES	NO	bb	bb	48.593
13	123678-HxCDF	35.13	2.187e5	1.737e5	1.248	1.26	1.24	2142.9	YES	NO	db	db	46.038
14	123478-HxCDF	35.00	2.051e5	1.648e5	1.182	1.24	1.24	2001.9	YES	NO	bd	bd	47.160
15	123468-HXCDF	33.34	2.054e5	1.657e5	1.197	1.24	1.24	1933.1	YES	NO	bb	bb	46.698
16	1234789-HpCDF	41.10	1.540e5	1.505e5	1.165	1.02	1.05	1046.6	YES	NO	bd	bb	47.947
17	1234678-HpCDF	38.85	1.758e5	1.712e5	1.204	1.03	1.05	1371.7	YES	NO	bd	bb	47.595
18	OCDF	45.37	2.270e5	2.535e5	1.186	0.90	0.89	2156.5	YES	NO	bd	bd	88.410
19	13468-PECDF	27.23	2.740e5	1.745e5	1.013	1.57	1.55	6408.0	YES	NO	bb	bb	52.525
20	1289-TCDD	27.12	2.843e4	3.757e4	0.975	0.76	0.77	447.1	YES	NO	bb	bb	10.311
21	2378-TCDD	26.52	3.268e4	4.134e4	1.236	0.79	0.77	528.3	YES	NO	bb	bb	9.123
22	Total-tetradiioxins	26.20	4.683e4	5.977e4	1.099	0.78	0.77	505.8	YES	NO	bb	bb	14.785
23	Total-tetradiioxins	25.70	1.574e4	1.835e4	1.099	0.86	0.77	259.4	YES	NO	bb	bb	4.728
24	Total-tetradiioxins	24.82	1.366e3	1.588e3	1.099	0.86	0.77	14.0	YES	NO	bb	db	0.410
25	1368-TCDD	23.64	2.987e4	3.899e4	1.084	0.77	0.77	479.8	YES	NO	bb	bb	9.676
26	12479-PECDD	28.91	2.811e5	1.811e5	1.837	1.55	1.55	1635.6	YES	NO	bb	bb	46.381
27	12389-PECDD	32.02	2.046e5	1.300e5	1.252	1.57	1.55	1858.7	YES	NO	bb	bb	49.269
28	12378-PeCDD	31.63	1.765e5	1.119e5	1.087	1.58	1.55	1646.9	YES	NO	bb	bb	48.934
29	Total-pentadiioxins	30.03	5.772e2	4.005e2	1.392	1.44	1.55	5.3	YES	NO	bb	bb	0.130
30	Total-hexadiioxins	37.00	4.202e2	2.992e2	1.007	1.40	1.24	6.2	NO	NO	bd	bb	0.108
31	123789-HxCDD	36.60	1.629e5	1.322e5	0.985	1.23	1.24	1843.0	YES	NO	bb	bb	45.437
32	123678-HxCDD	36.22	1.732e5	1.419e5	1.021	1.22	1.24	1958.5	YES	NO	db	db	46.358
33	123478-HxCDD	36.10	1.629e5	1.355e5	0.987	1.20	1.24	1952.5	YES	NO	bd	bd	46.342
34	Total-hexadiioxins	35.18	1.270e3	1.070e3	1.007	1.19	1.24	8.9	YES	NO	bb	bb	0.353
35	124679-HXCDD	34.10	1.714e5	1.381e5	1.033	1.24	1.24	1887.9	YES	NO	bb	bb	45.934
36	1234679-HPCDD	39.31	1.602e5	1.563e5	1.286	1.02	1.05	1728.2	YES	NO	bd	bd	48.826
37	OCDD	45.12	2.168e5	2.488e5	1.103	0.87	0.89	2303.6	YES	NO	bb	bb	92.154

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:30:36 Pacific Standard Time

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, 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	1234678-HpCDD	40.35	1.447e5	1.383e5	1.253	1.05	1.05	1452.7	YES	NO	bd	bd	44.839

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.33	2.530e6					63.5	YES		dd		
2	FUNCTION1 PFK	21.24	1.625e6					65.1	YES		dd		
3	FUNCTION1 PFK	21.12	3.427e6					68.9	YES		bd		
4	FUNCTION1 PFK	24.48	1.219e4					1.0	NO		bb		
5	FUNCTION1 PFK	24.40	5.763e3					0.6	NO		db		
6	FUNCTION1 PFK	24.34	1.485e4					0.9	NO		bd		
7	FUNCTION1 PFK	24.07	1.997e3					0.4	NO		bb		
8	FUNCTION1 PFK	24.01	8.789e3					0.6	NO		bb		
9	FUNCTION1 PFK	23.90	1.739e3					0.3	NO		bb		
10	FUNCTION1 PFK	23.84	4.102e3					0.5	NO		bb		
11	FUNCTION1 PFK	23.57	9.271e3					1.0	NO		db		
12	FUNCTION1 PFK	23.51	3.033e3					0.5	NO		bd		
13	FUNCTION1 PFK	23.24	1.986e4					1.9	NO		db		
14	FUNCTION1 PFK	23.04	3.743e5					8.4	YES		dd		
15	FUNCTION1 PFK	22.93	7.072e5					11.8	YES		dd		
16	FUNCTION1 PFK	22.75	3.265e6					16.9	YES		dd		
17	FUNCTION1 PFK	22.12	1.193e7					37.3	YES		dd		
18	FUNCTION1 PFK	21.48	1.464e6					58.0	YES		dd		
19	FUNCTION1 PFK	21.42	9.162e5					60.2	YES		dd		
20	FUNCTION1 PFK	28.12	6.661e3					0.7	NO		bb		
21	FUNCTION1 PFK	27.97	6.503e3					0.7	NO		bb		
22	FUNCTION1 PFK	27.79	3.007e4					1.6	NO		db		
23	FUNCTION1 PFK	27.68	3.765e4					1.8	NO		bd		
24	FUNCTION1 PFK	26.70	1.853e3					0.4	NO		bb		
25	FUNCTION1 PFK	26.64	2.047e4					1.7	NO		bb		
26	FUNCTION1 PFK	26.37	3.952e4					1.7	NO		bb		
27	FUNCTION1 PFK	25.64	3.424e4					1.6	NO		bb		
28	FUNCTION1 PFK	25.52	3.273e4					1.8	NO		bb		
29	FUNCTION1 PFK	24.93	2.188e4					1.2	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	FUNCTION2 PFK	29.54	6.100e3					1.7	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	37.23	7.650e6					24.0	YES		bb		0.000
2	FUNCTION3 PFK	35.86	7.327e6					29.4	YES		db		0.000
3	FUNCTION3 PFK	35.31	1.794e6					8.7	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	41.37	1.192e4					2.1	NO		bb		
2	FUNCTION4 PFK	38.11	3.488e4					4.2	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.25	3.569e3					1.2	NO		bb		
2	FUNCTION5 PFK	44.90	1.693e3					0.7	NO		bb		
3	FUNCTION5 PFK	44.55	4.986e2					0.4	NO		bb		
4	FUNCTION5 PFK	44.52	5.077e2					0.4	NO		bb		
5	FUNCTION5 PFK	44.22	6.053e3					1.9	NO		bb		
6	FUNCTION5 PFK	43.81	5.436e3					1.8	NO		bb		
7	FUNCTION5 PFK	43.45	6.358e3					1.8	NO		bb		
8	FUNCTION5 PFK	43.33	2.798e3					1.1	NO		bb		
9	FUNCTION5 PFK	43.26	5.509e3					1.7	NO		db		
10	FUNCTION5 PFK	43.20	1.679e4					3.1	YES		dd		
11	FUNCTION5 PFK	43.16	1.257e4					2.8	NO		dd		
12	FUNCTION5 PFK	43.10	1.315e4					2.9	NO		bd		
13	FUNCTION5 PFK	46.32	2.108e3					0.9	NO		bb		
14	FUNCTION5 PFK	46.15	6.073e3					1.7	NO		bb		
15	FUNCTION5 PFK	46.07	1.512e3					0.6	NO		bb		
16	FUNCTION5 PFK	46.02	6.816e3					2.0	NO		bb		
17	FUNCTION5 PFK	45.90	3.598e3					1.4	NO		bb		
18	FUNCTION5 PFK	45.50	2.526e3					1.1	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, 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...	28.07	8.633e1					2.0	NO		bb		0.000
2	FUNCTION1 HXCD...	27.74	7.273e1					1.9	NO		bb		0.000
3	FUNCTION1 HXCD...	25.69	1.174e2					2.0	NO		bb		0.000
4	FUNCTION1 HXCD...	25.49	8.520e1					2.3	NO		db		0.000
5	FUNCTION1 HXCD...	25.34	2.267e2					3.7	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...	25.13	2.100e2					3.7	YES		db		0.000
2	FUNCTION1 HPCD...	25.07	1.118e2					2.5	NO		bd		0.000
3	FUNCTION1 HPCD...	24.14	2.140e2					2.0	NO		bb		0.000
4	FUNCTION1 HPCD...	27.98	8.133e1					2.2	NO		bb		0.000
5	FUNCTION1 HPCD...	25.73	9.158e1					2.0	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...	32.00	8.282e1					1.8	NO		db		0.000
2	FUNCTION2 HPCD...	31.90	9.867e1					1.7	NO		bd		0.000
3	FUNCTION2 HPCD...	31.23	1.975e2					3.1	YES		bb		0.000
4	FUNCTION2 HPCD...	28.58	9.713e1					1.1	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	36.22	8.572e1					2.1	NO		bb		0.000
2	FUNCTION3 OCDPE	36.11	1.412e2					3.1	YES		bb		0.000
3	FUNCTION3 OCDPE	35.13	7.623e1					1.9	NO		db		0.000
4	FUNCTION3 OCDPE	34.95	1.480e2					1.8	NO		bd		0.000
5	FUNCTION3 OCDPE	33.69	7.811e1					1.8	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, 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	39.28	8.155e1					1.8	NO		bb		0.000
2	FUNCTION4 NCDPE	38.08	7.046e1					0.8	NO		bb		0.000
3	FUNCTION4 NCDPE	41.19	1.073e2					2.6	NO		db		0.000
4	FUNCTION4 NCDPE	41.16	1.095e2					2.6	NO		bd		0.000
5	FUNCTION4 NCDPE	40.93	9.659e1					2.4	NO		db		0.000
6	FUNCTION4 NCDPE	40.86	1.035e2					2.1	NO		bd		0.000
7	FUNCTION4 NCDPE	39.51	8.718e1					1.2	NO		bb		0.000

ETHERS6

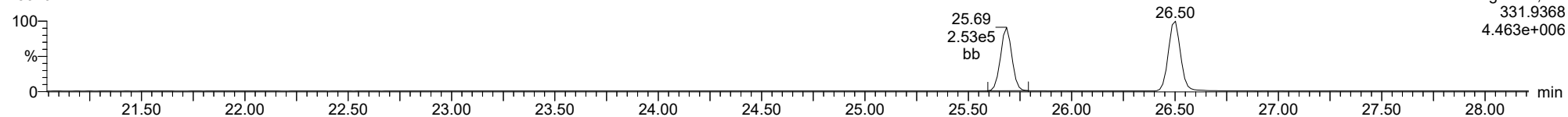
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.46	7.441e1					2.3	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

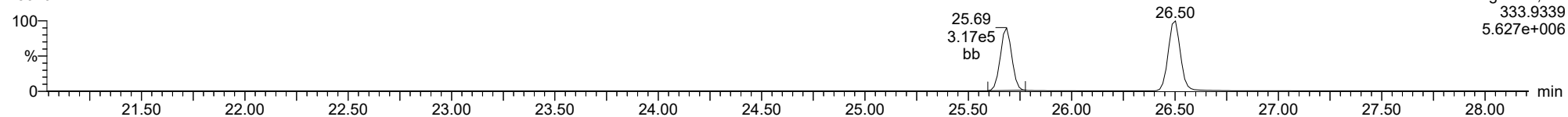
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F1:Voltage SIR,El+
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4.463e+006

13C-1234-TCDD

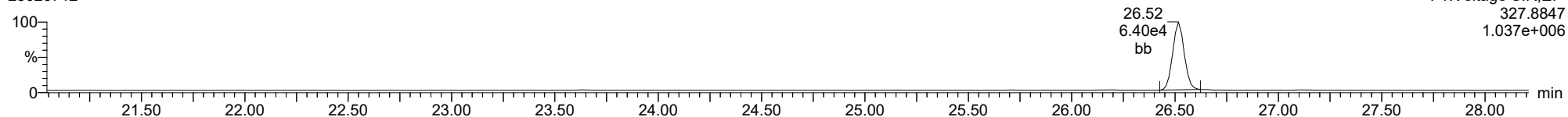
23020712



F1:Voltage SIR,El+
333.9339
5.627e+006

37CL-2378-TCDD

23020712

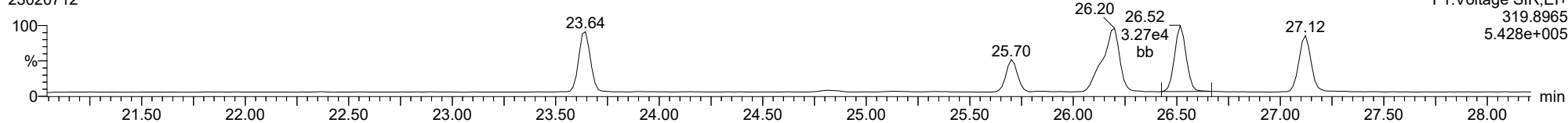


F1:Voltage SIR,El+
327.8847
1.037e+006

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

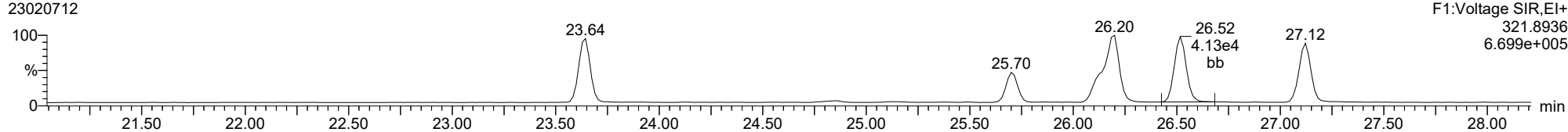
2378-TCDD

23020712



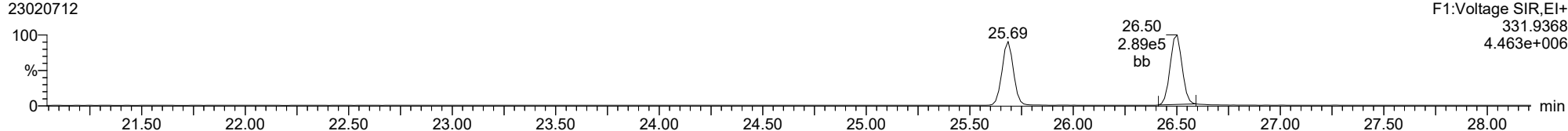
2378-TCDD

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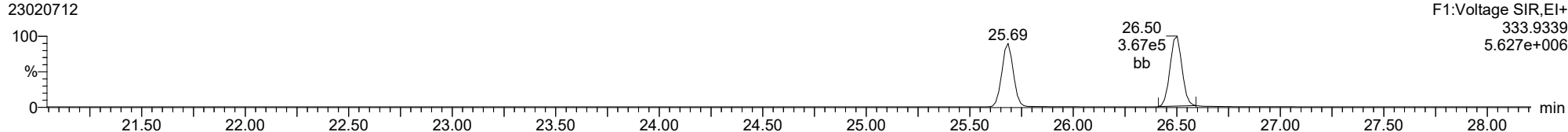
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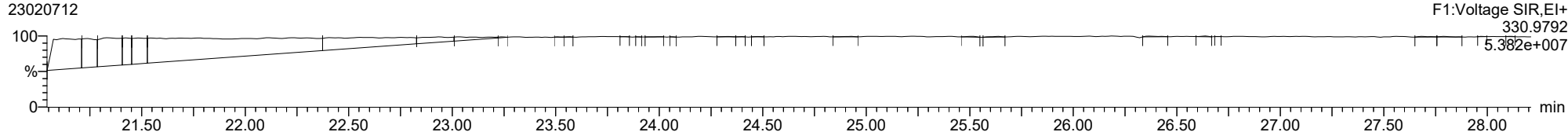
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23020712



FUNCTION1 PFK

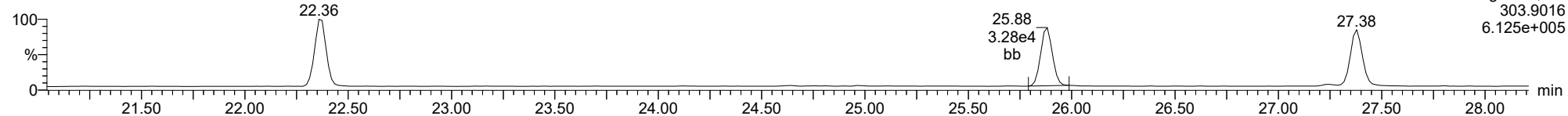
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

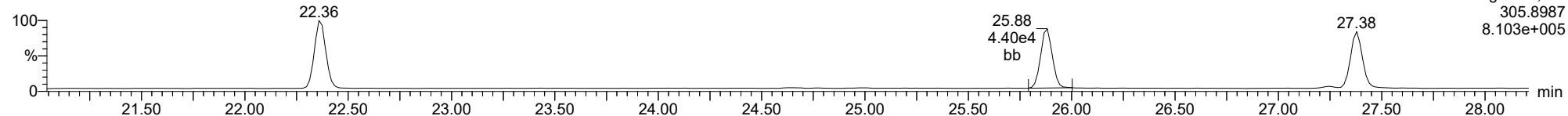
2378-TCDF

23020712



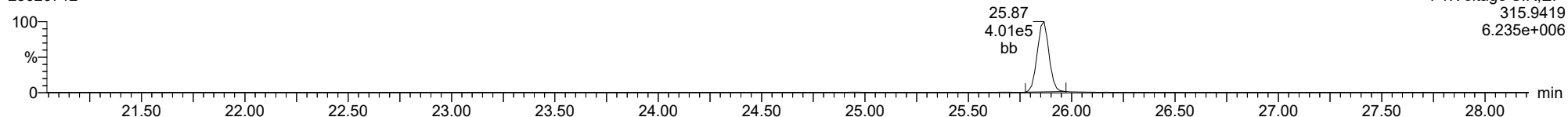
2378-TCDF

23020712



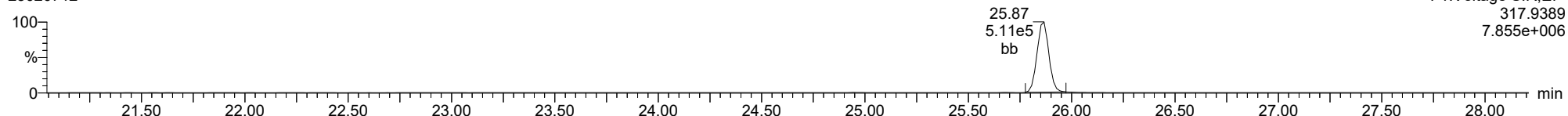
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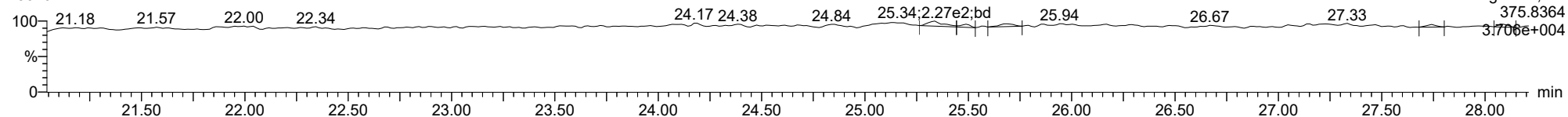
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23020712



FUNCTION1 HXCDPE

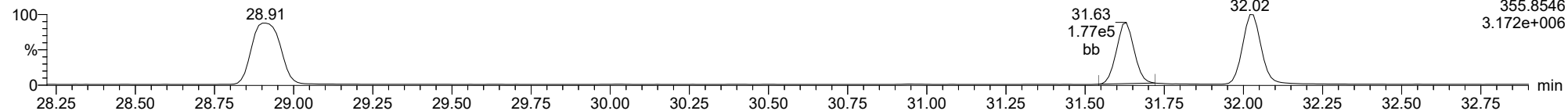
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

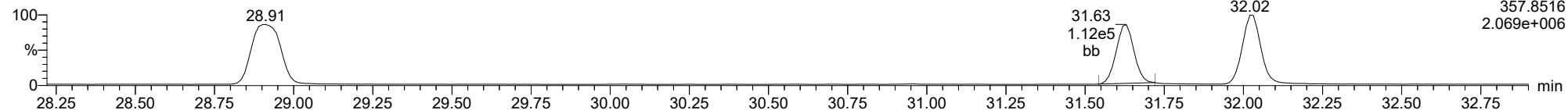
12378-PeCDD

23020712



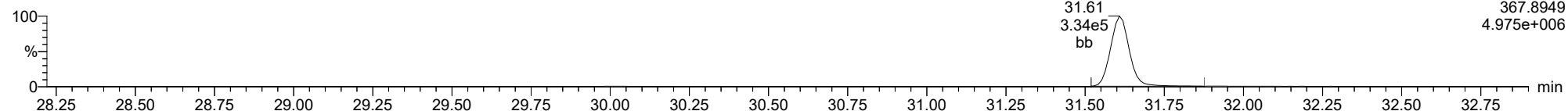
12378-PeCDD

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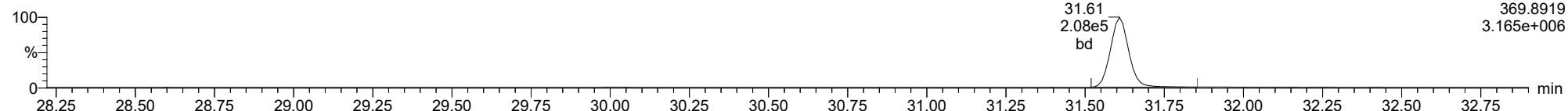
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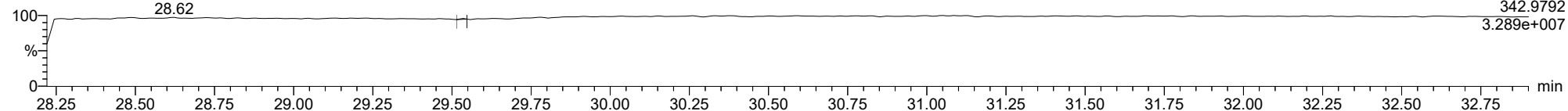
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23020712



FUNCTION2 PFK

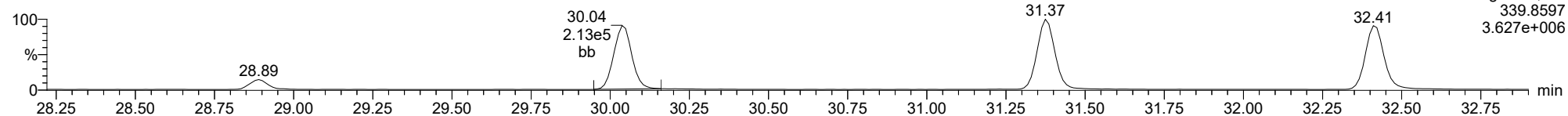
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

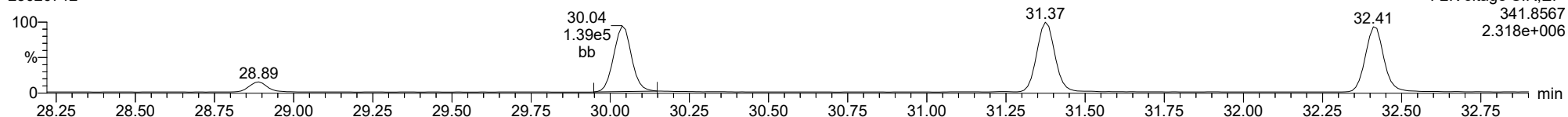
12378-PeCDF

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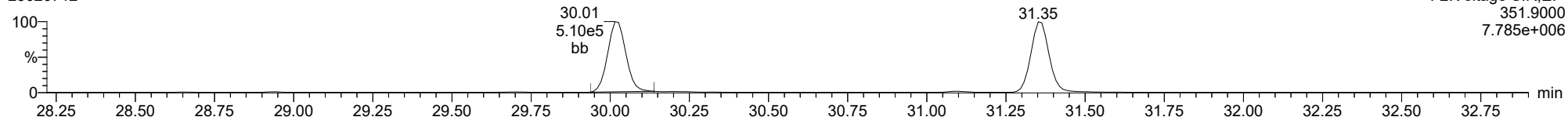
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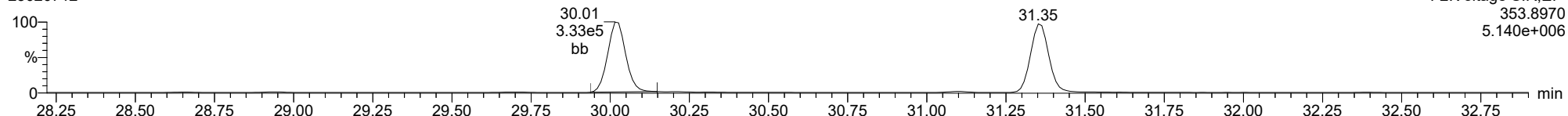
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23020712



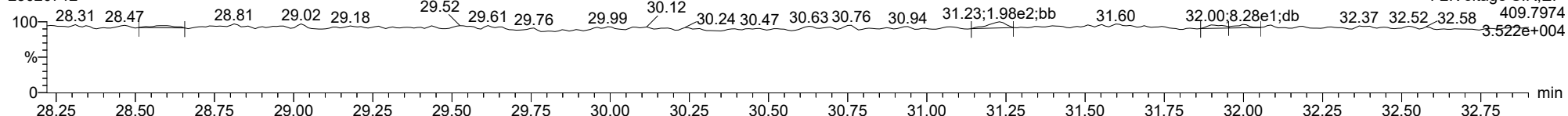
13C-12378-PeCDF

23020712



FUNCTION2 HPCDPE

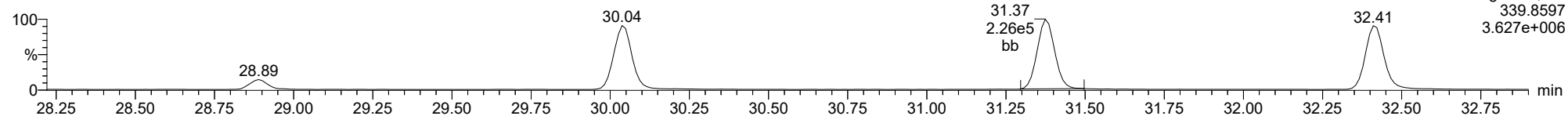
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

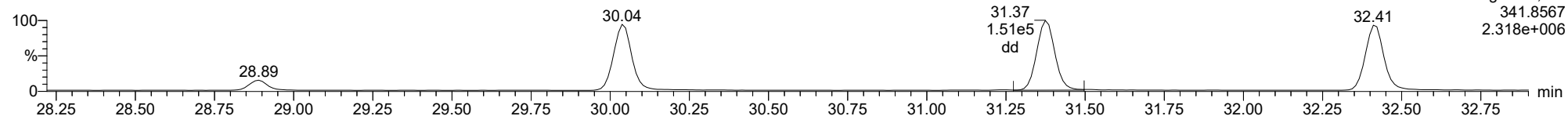
23478-PeCDF

23020712



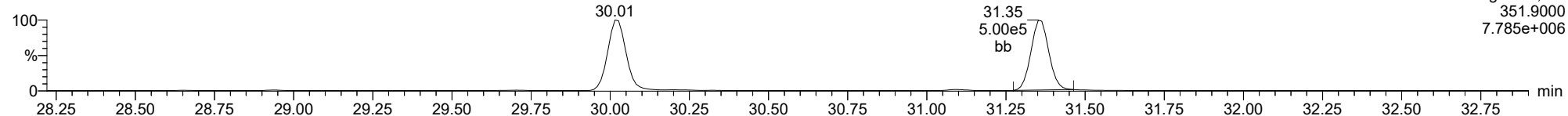
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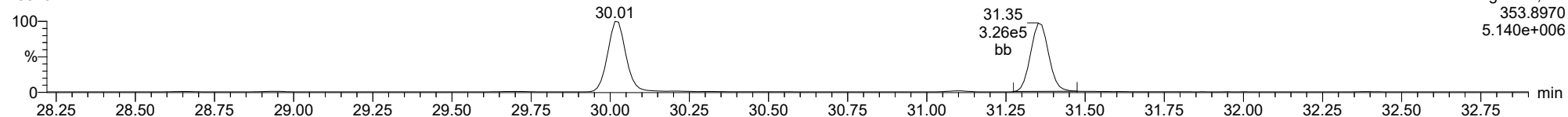
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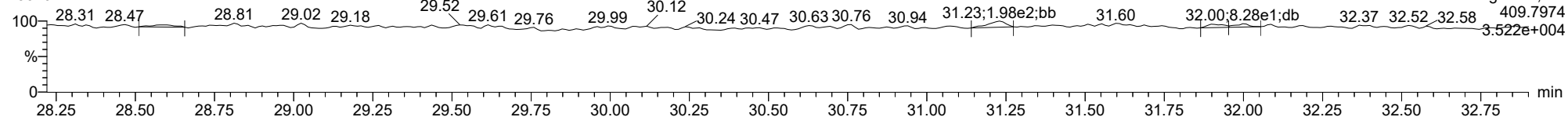
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FUNCTION2 HPCDPE

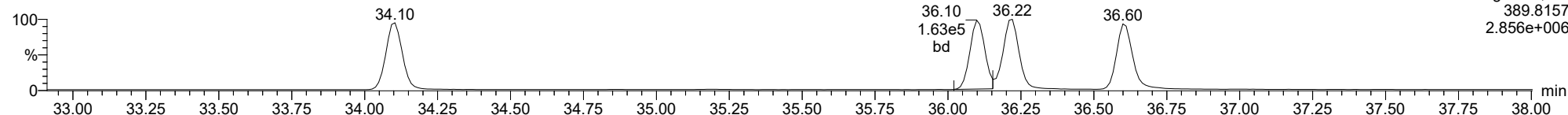
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

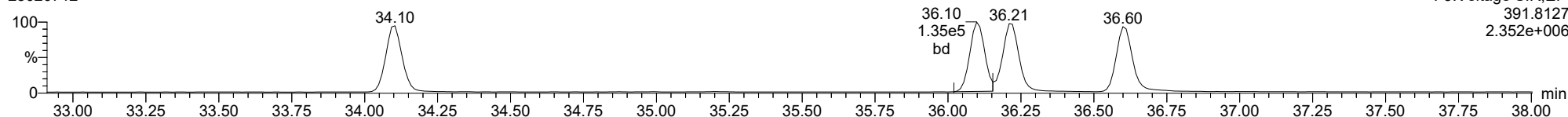
123478-HxCDD

23020712



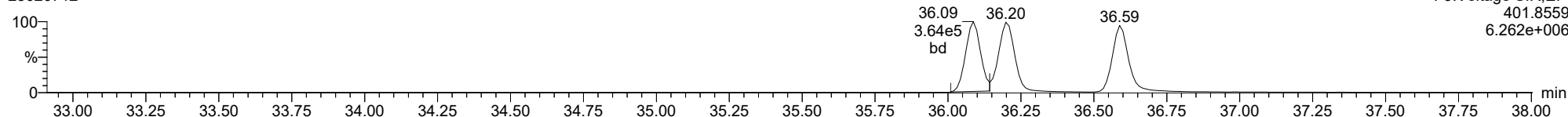
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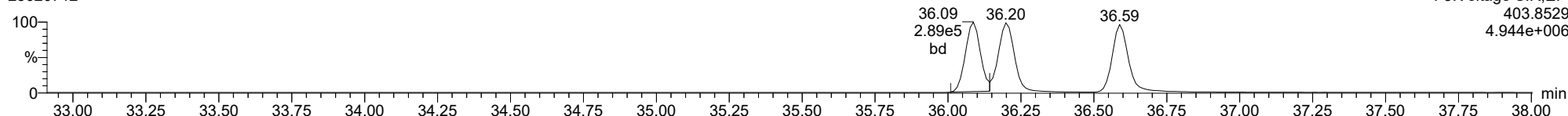
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23020712



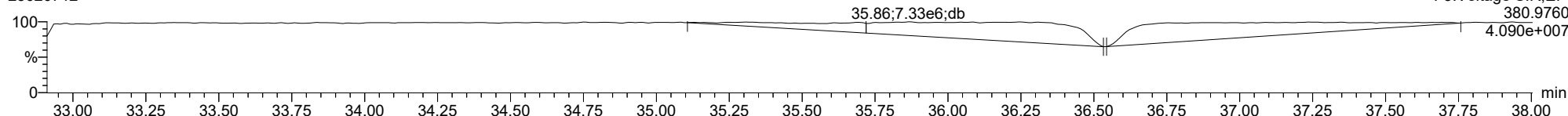
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FUNCTION3 PFK

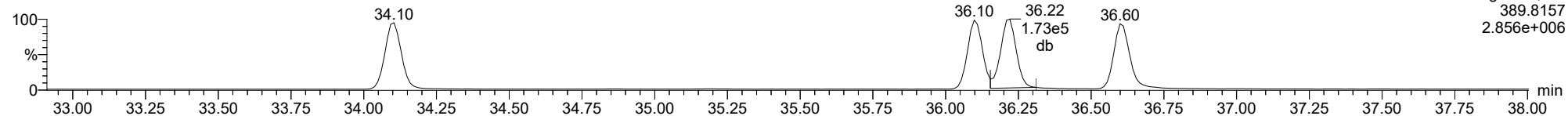
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

123678-HxCDD

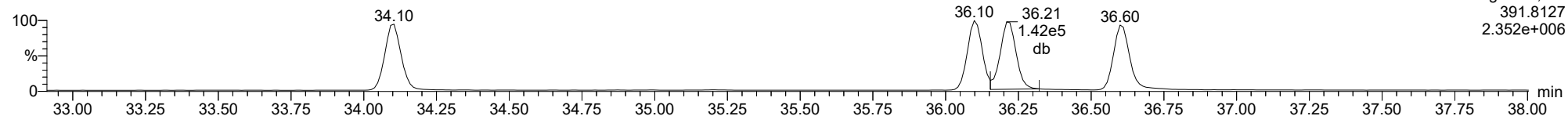
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F3:Voltage SIR,EI+
389.8157
2.856e+006

123678-HxCDD

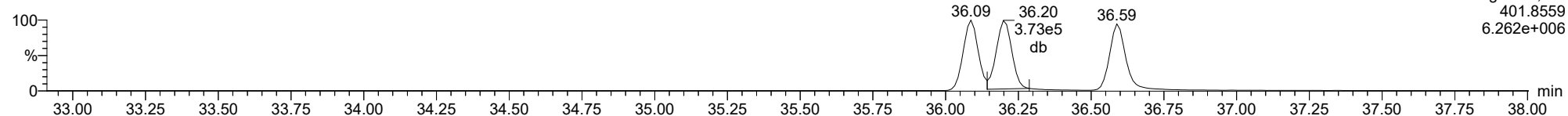
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F3:Voltage SIR,EI+
391.8127
2.352e+006

13C-123678-HxCDD

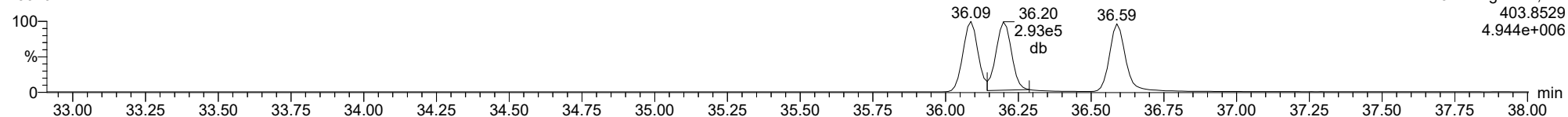
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F3:Voltage SIR,EI+
401.8559
6.262e+006

13C-123678-HxCDD

23020712

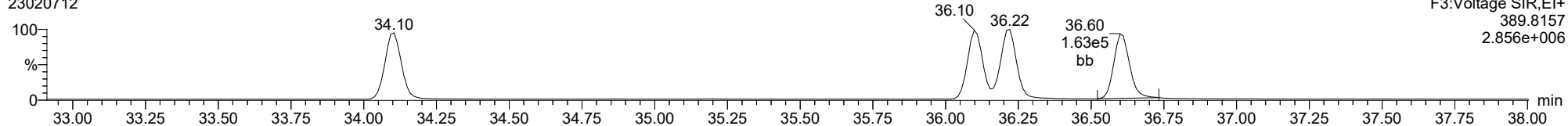


F3:Voltage SIR,EI+
403.8529
4.944e+006

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

123789-HxCDD

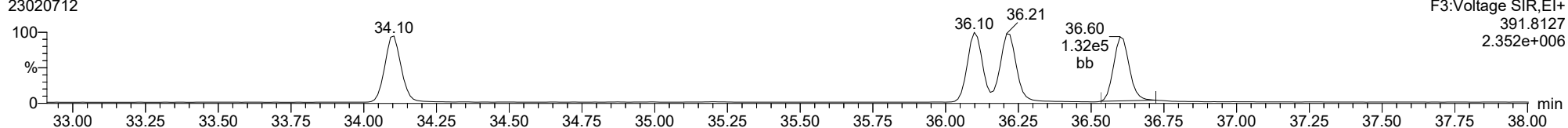
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F3:Voltage SIR,EI+
389.8157
2.856e+006

123789-HxCDD

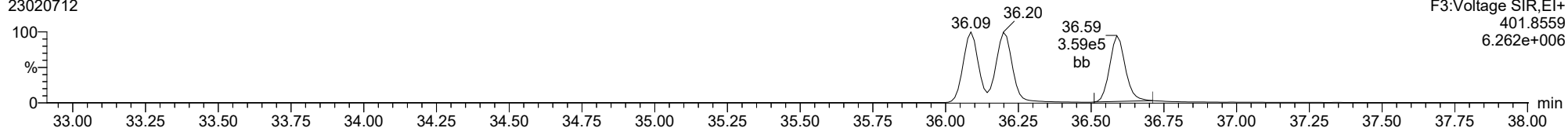
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F3:Voltage SIR,EI+
391.8127
2.352e+006

13C-123789-HxCDD

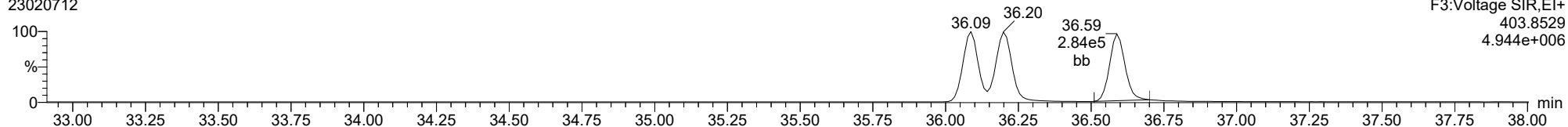
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F3:Voltage SIR,EI+
401.8559
6.262e+006

13C-123789-HxCDD

23020712

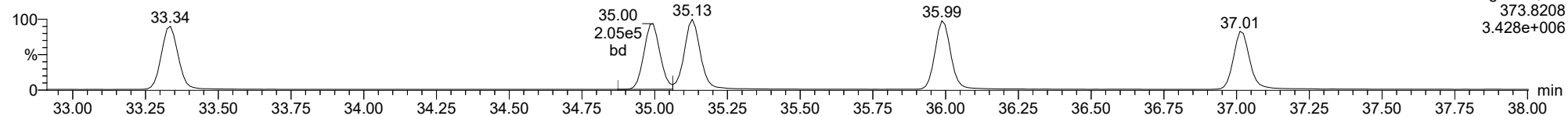


F3:Voltage SIR,EI+
403.8529
4.944e+006

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

123478-HxCDF

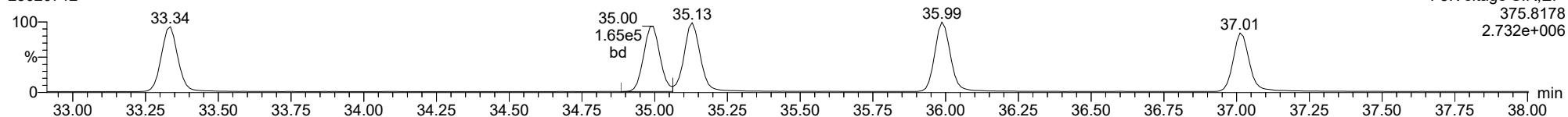
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F3:Voltage SIR,El+
373.8208
3.428e+006

123478-HxCDF

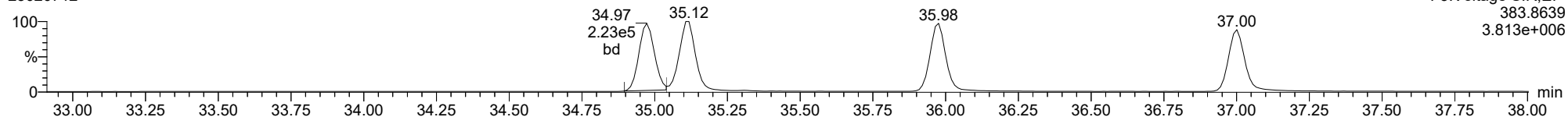
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F3:Voltage SIR,El+
375.8178
2.732e+006

13C-123478-HxCDF

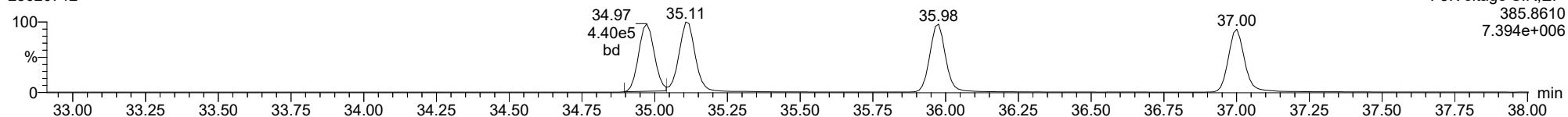
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F3:Voltage SIR,El+
383.8639
3.813e+006

13C-123478-HxCDF

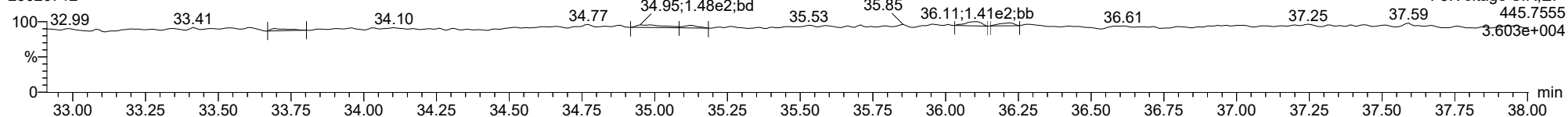
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F3:Voltage SIR,El+
385.8610
7.394e+006

FUNCTION3 OCDPE

23020712

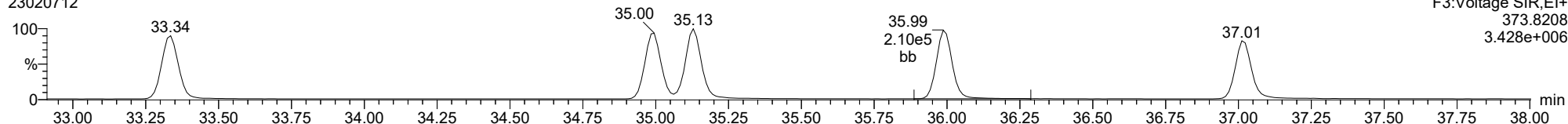


F3:Voltage SIR,El+
445.7555
3.603e+004

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

234678-HxCDF

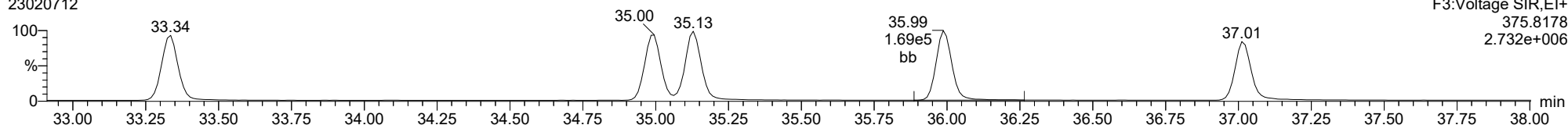
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F3:Voltage SIR,EI+
373.8208
3.428e+006

234678-HxCDF

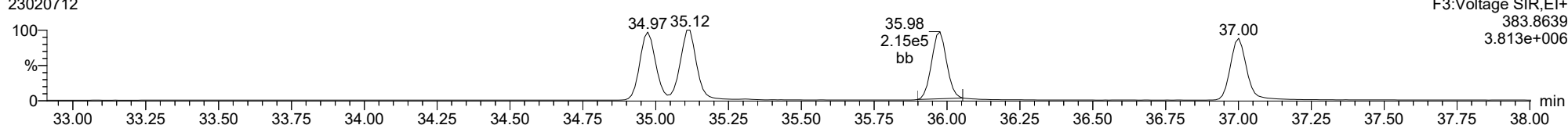
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F3:Voltage SIR,EI+
375.8178
2.732e+006

13C-234678-HxCDF

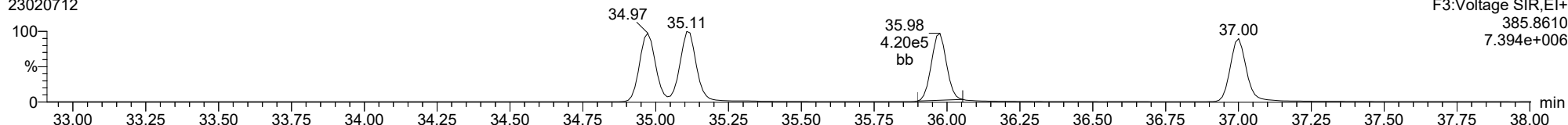
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F3:Voltage SIR,EI+
383.8639
3.813e+006

13C-234678-HxCDF

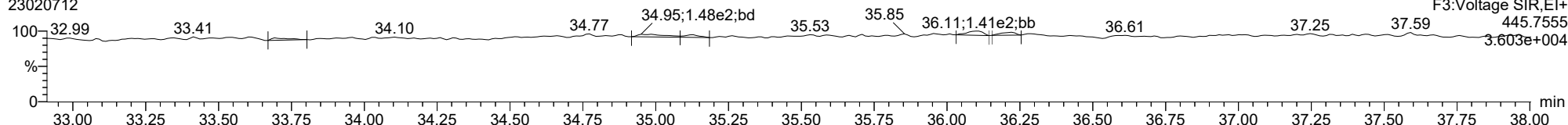
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F3:Voltage SIR,EI+
385.8610
7.394e+006

FUNCTION3 OCDPE

23020712

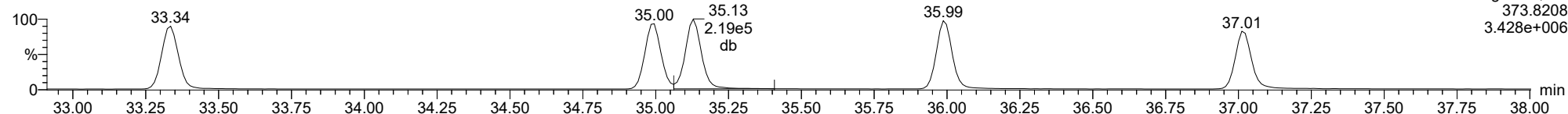


F3:Voltage SIR,EI+
445.7555
3.603e+004

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

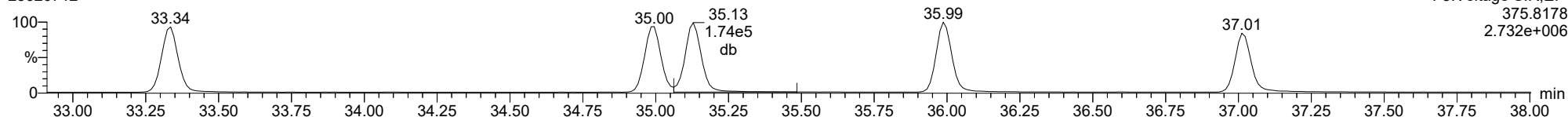
123678-HxCDF

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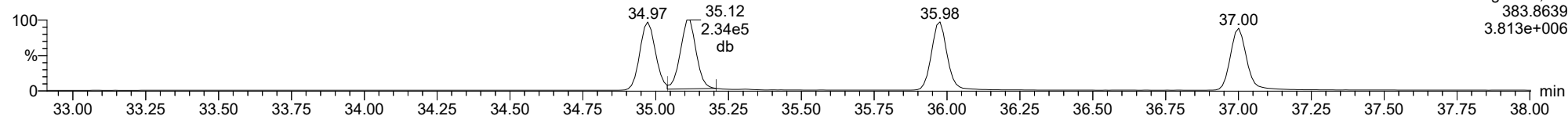
123678-HxCDF

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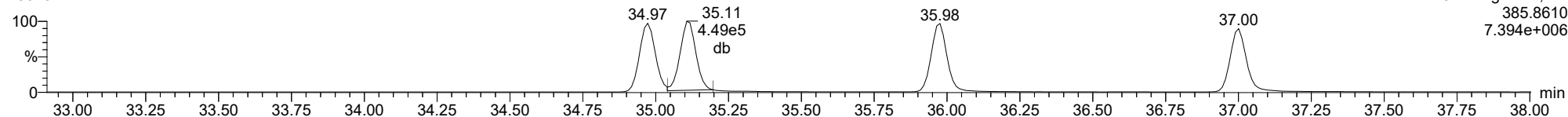
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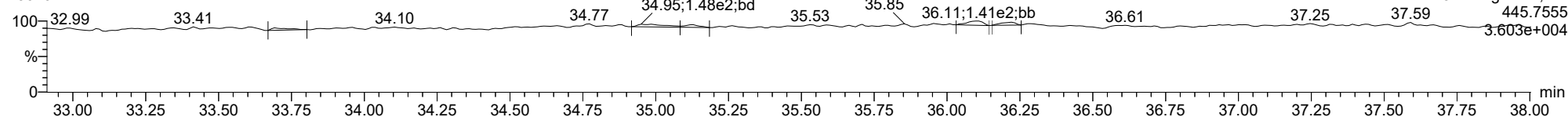
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FUNCTION3 OCDPE

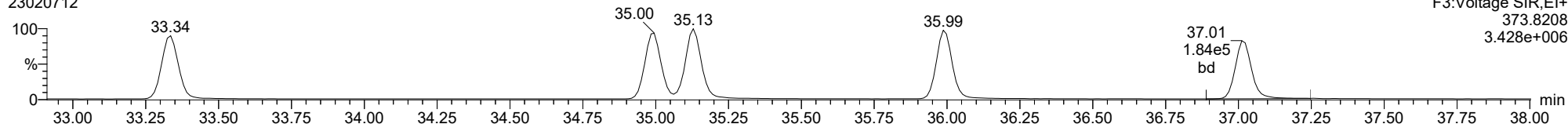
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

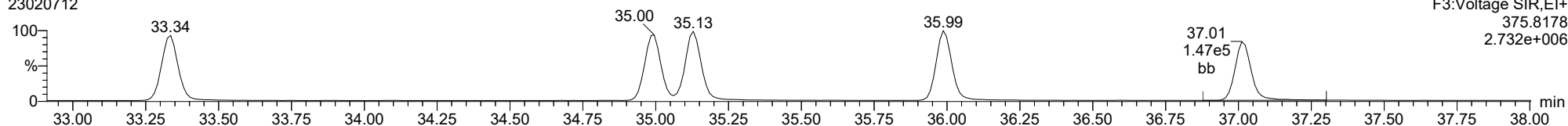
123789-HxCDF

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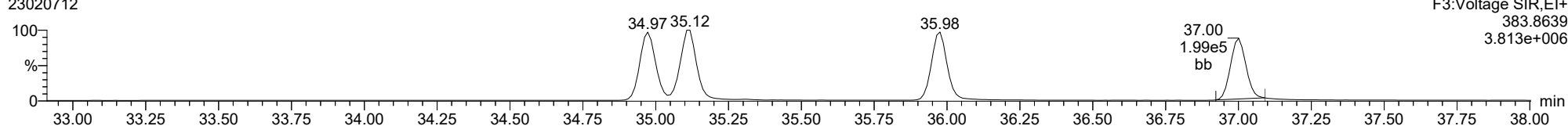
123789-HxCDF

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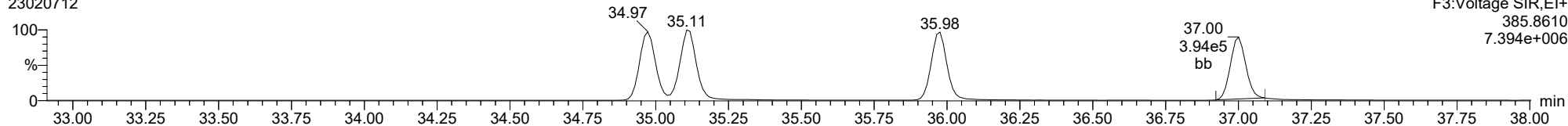
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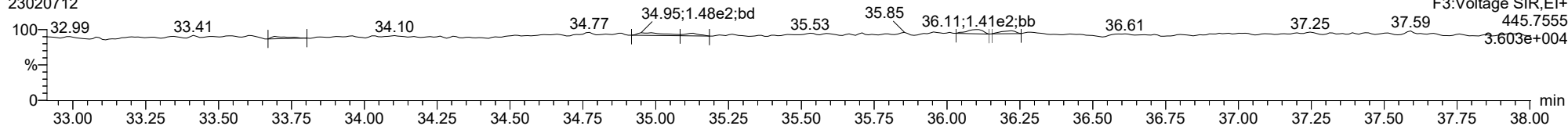
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FUNCTION3 OCDPE

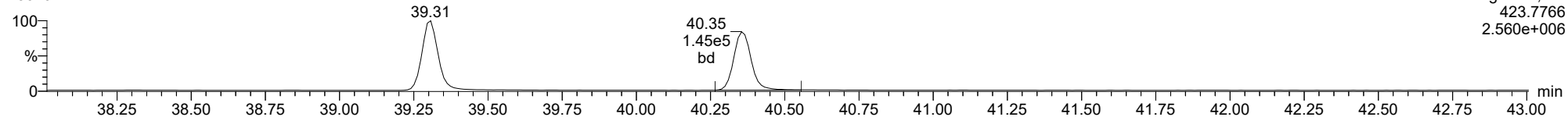
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

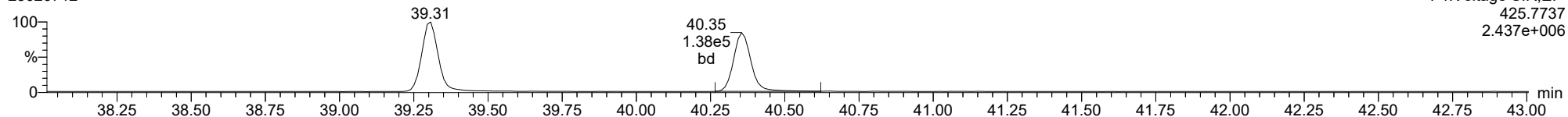
1234678-HpCDD

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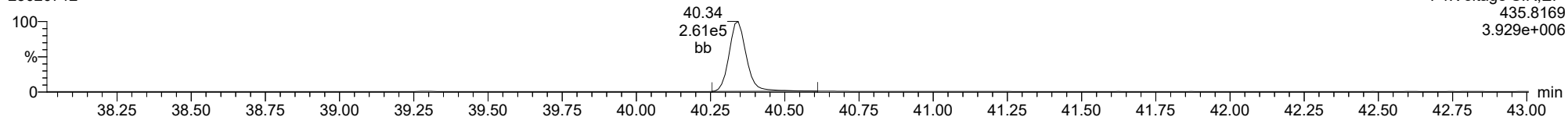
1234678-HpCDD

23020712



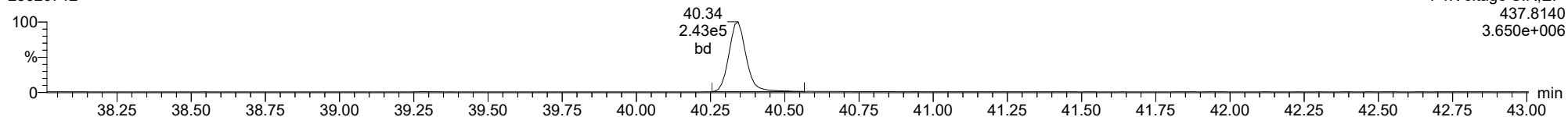
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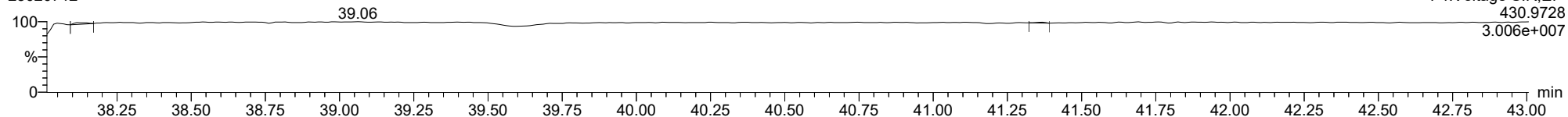
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FUNCTION4 PFK

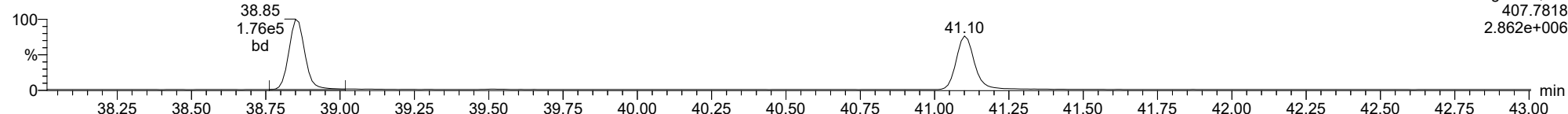
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

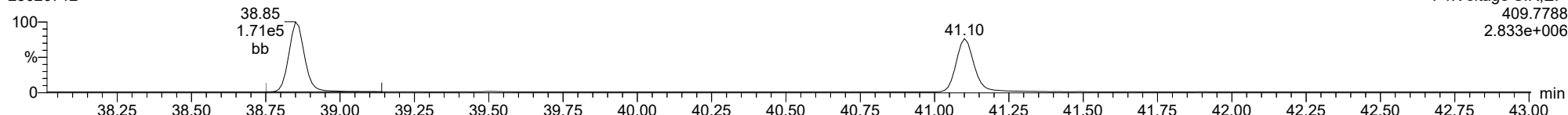
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F4:Voltage SIR,EI+
407.7818
2.862e+006

1234678-HpCDF

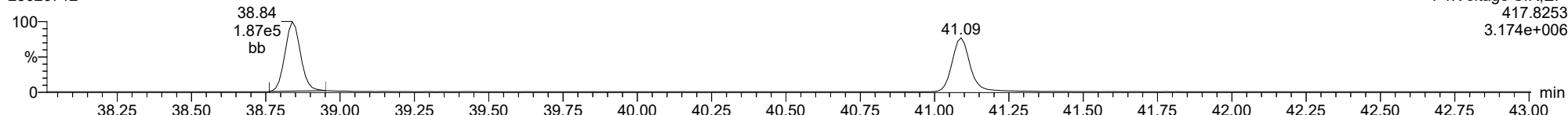
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F4:Voltage SIR,EI+
409.7788
2.833e+006

13C-1234678-HpCDF

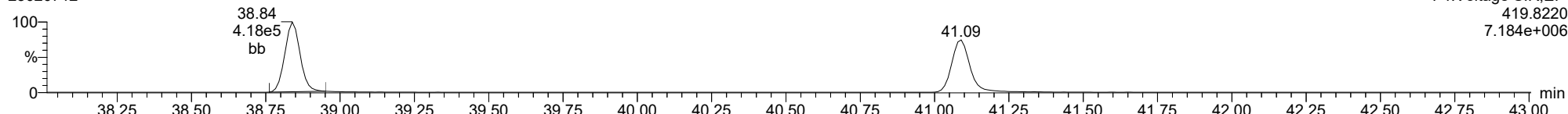
23020712



F4:Voltage SIR,EI+
417.8253
3.174e+006

13C-1234678-HpCDF

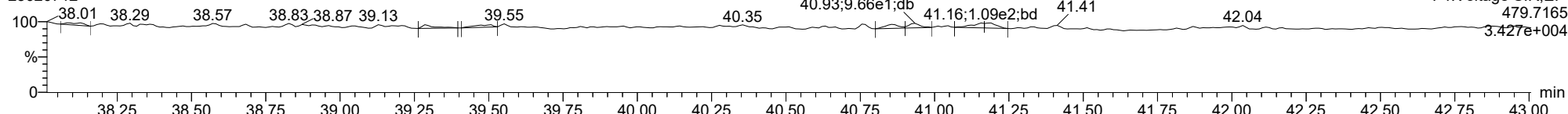
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F4:Voltage SIR,EI+
419.8220
7.184e+006

FUNCTION4 NCDPE

23020712

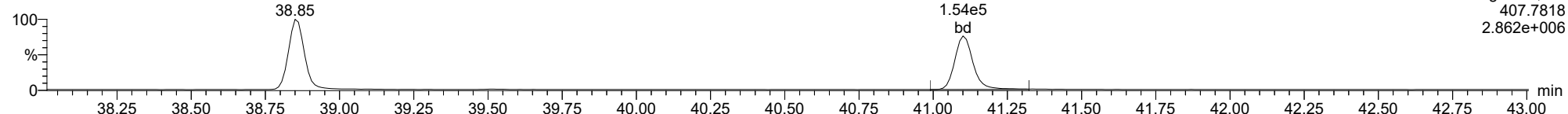


F4:Voltage SIR,EI+
479.7165
3.427e+004

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

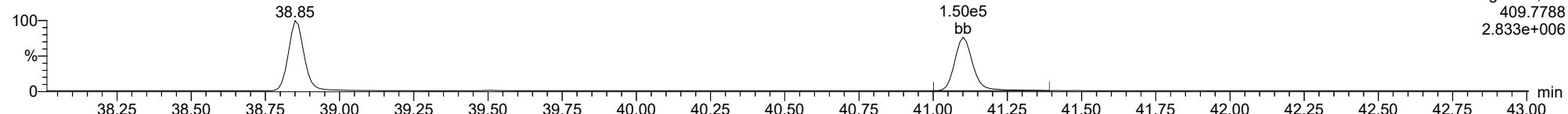
23020712



F4:Voltage SIR,EI+
407.7818
2.862e+006

1234789-HpCDF

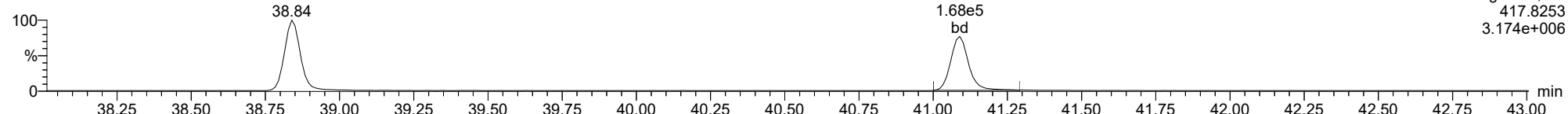
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F4:Voltage SIR,EI+
409.7788
2.833e+006

13C-1234789-HpCDF

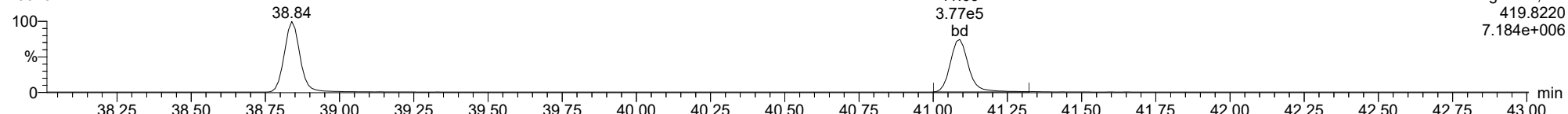
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F4:Voltage SIR,EI+
417.8253
3.174e+006

13C-1234789-HpCDF

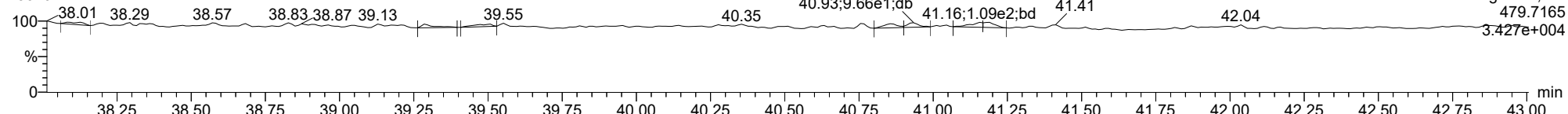
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F4:Voltage SIR,EI+
419.8220
7.184e+006

FUNCTION4 NCDPE

23020712

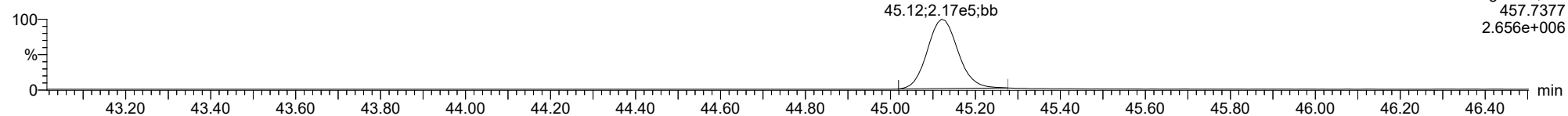


F4:Voltage SIR,EI+
479.7165
3.427e+004

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

OCDD

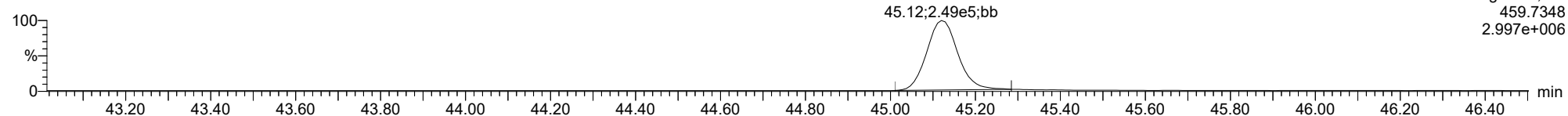
23020712



F5:Voltage SIR,EI+
459.7377
2.656e+006

OCDD

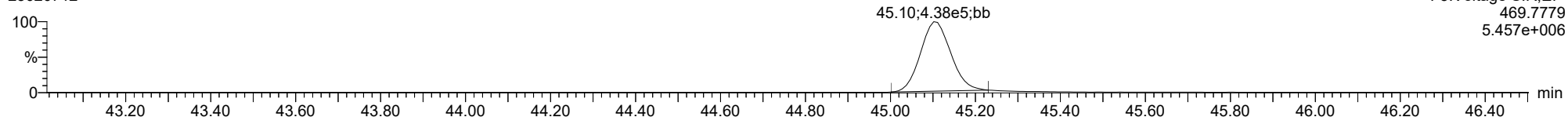
23020712



F5:Voltage SIR,EI+
459.7348
2.997e+006

13C-OCDD

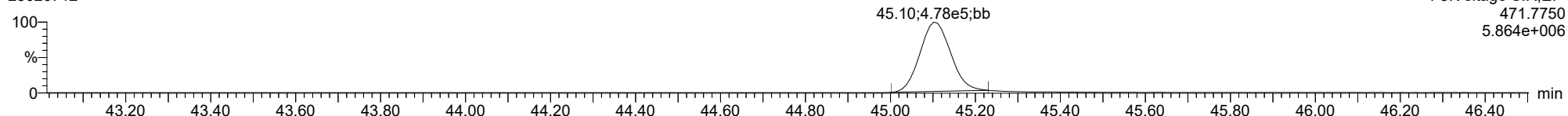
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F5:Voltage SIR,EI+
469.7779
5.457e+006

13C-OCDD

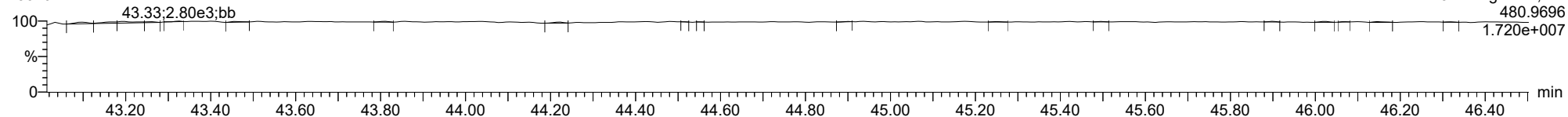
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F5:Voltage SIR,EI+
471.7750
5.864e+006

FUNCTION5 PFK

23020712

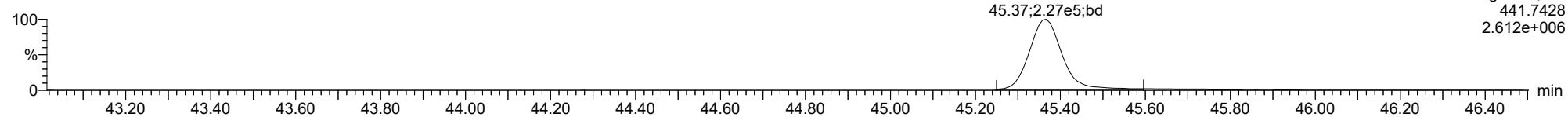


F5:Voltage SIR,EI+
480.9696
1.720e+007

ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

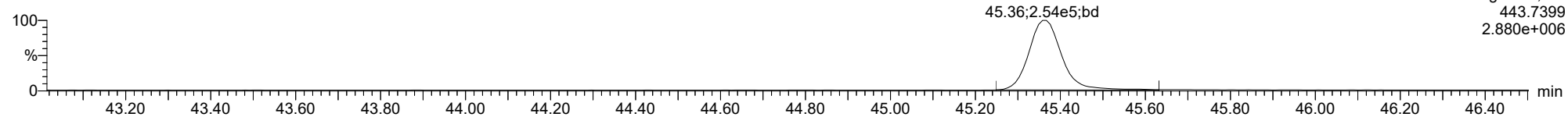
OCDF

23020712



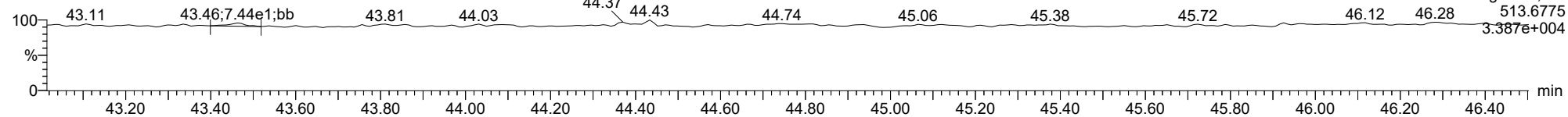
OCDF

23020712



FUNCTION5 DCDPE

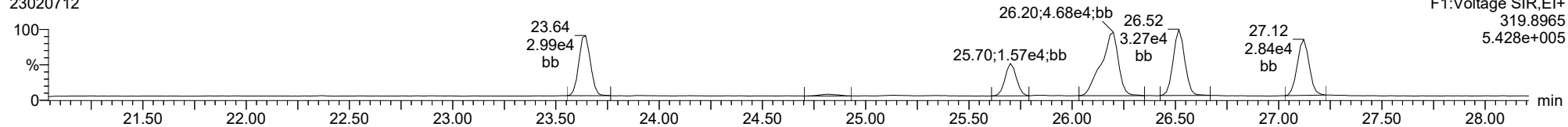
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

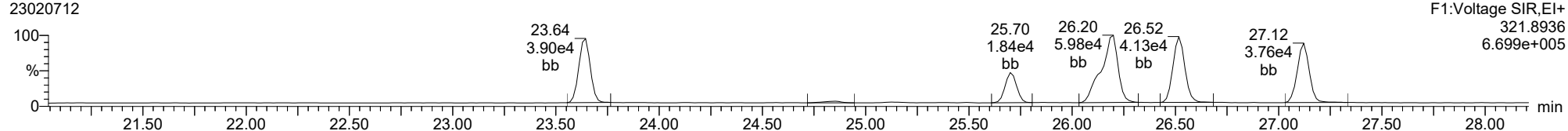
Total-tetradiioxins

23020712



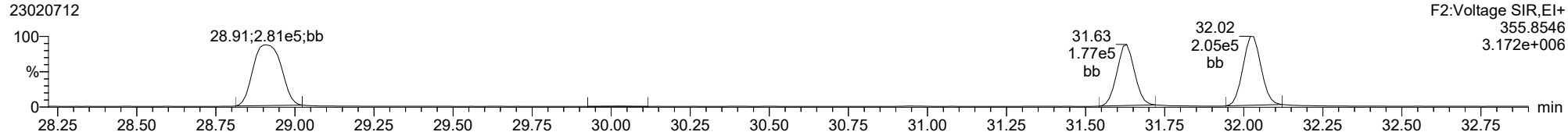
Total-tetradiioxins

23020712



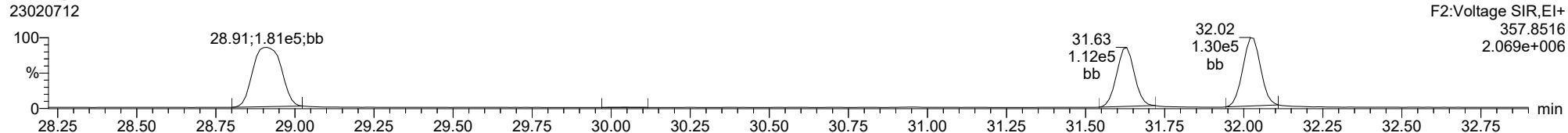
Total-pentadiioxins

23020712



Total-pentadiioxins

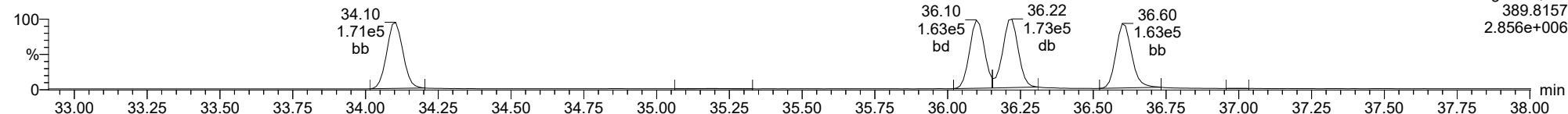
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

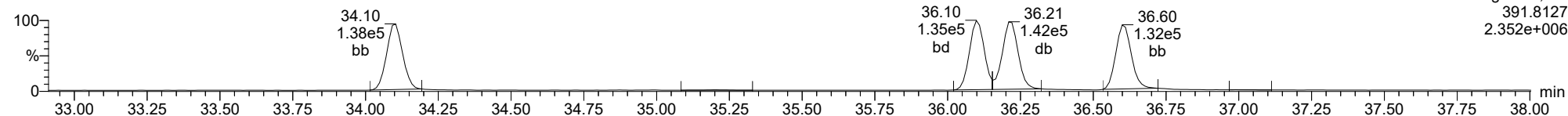
Total-hexadioxins

23020712



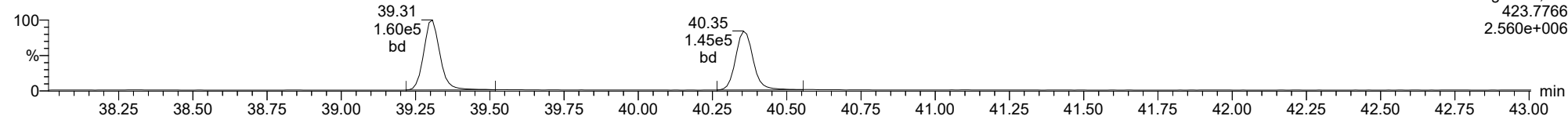
Total-hexadioxins

23020712



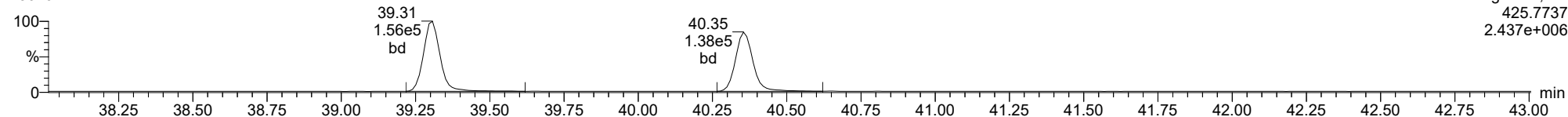
Total-heptadioxins

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Total-heptadioxins

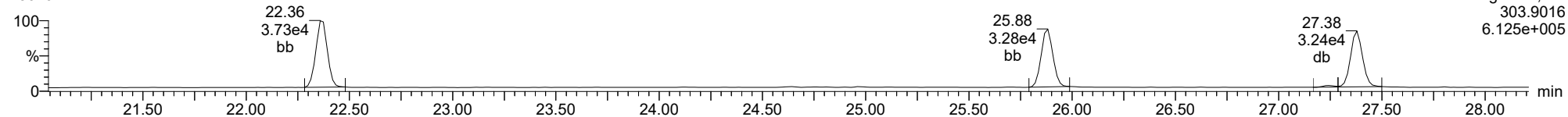
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

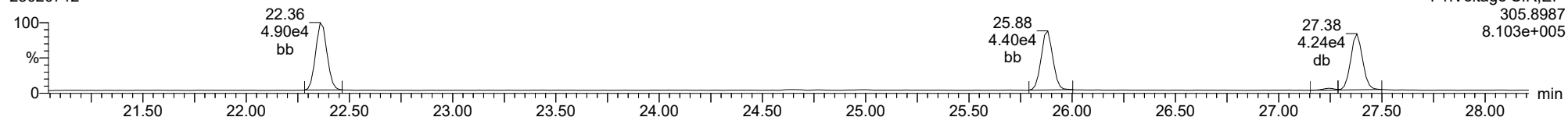
Total-tetrafurans

23020712



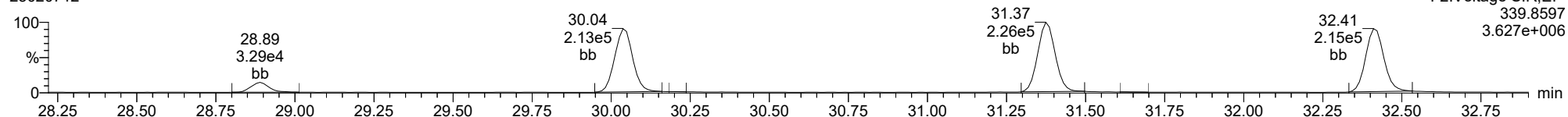
Total-tetrafurans

23020712



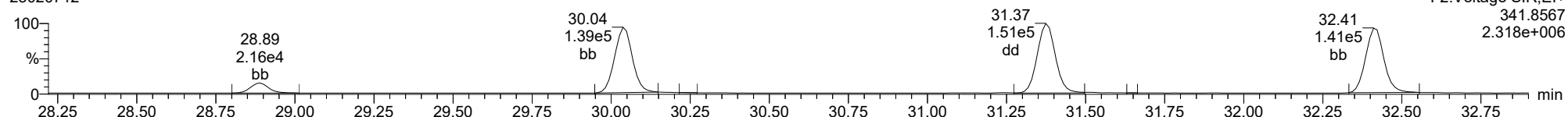
Total-pentafurans

23020712



Total-pentafurans

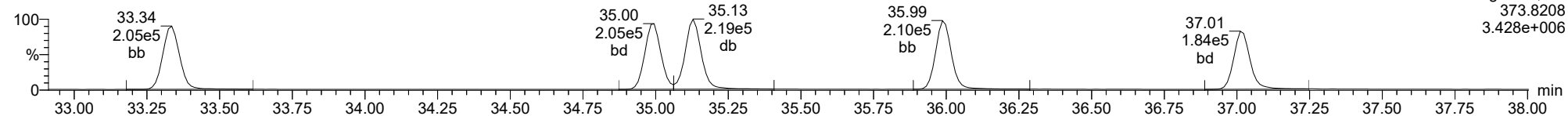
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ID: CS3T2, Name: 23020712, Date: 07-Feb-2023, Time: 18:03:52, Conditions: AUTOSPEC01, User: pk

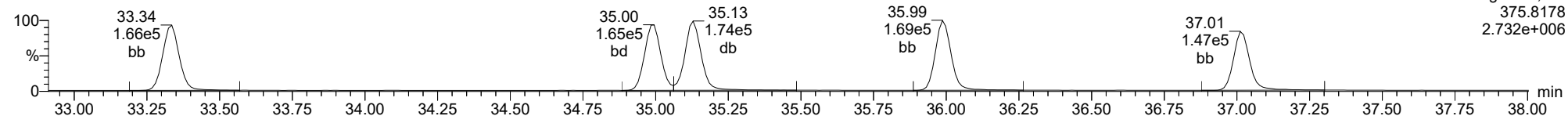
Total-hexafurans

23020712



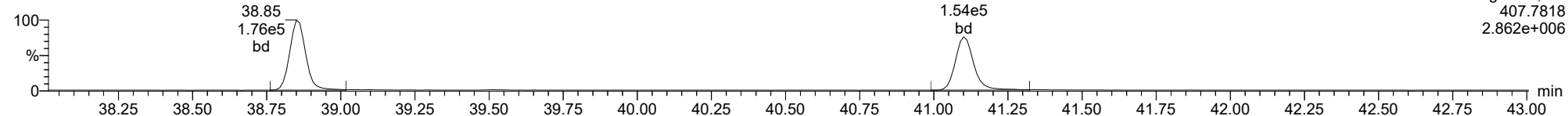
Total-hexafurans

23020712



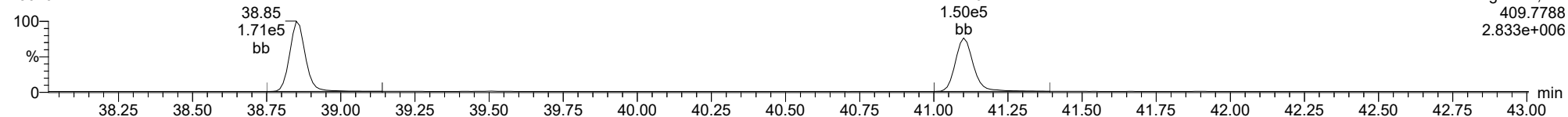
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23020712

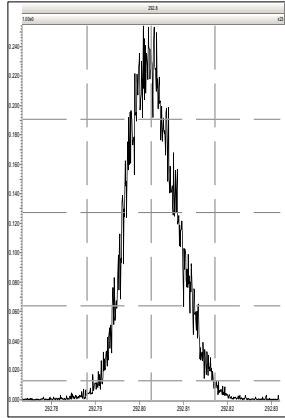


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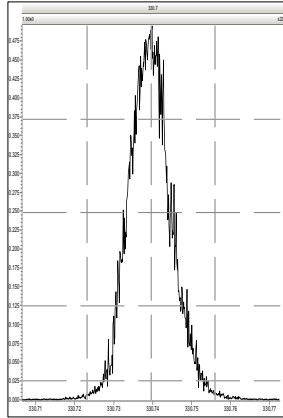
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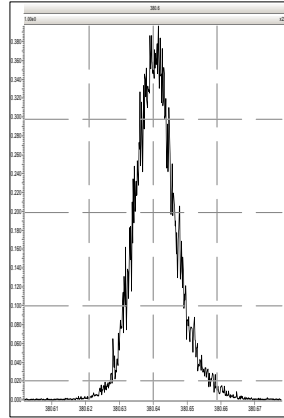
M 292.9824 R 11573



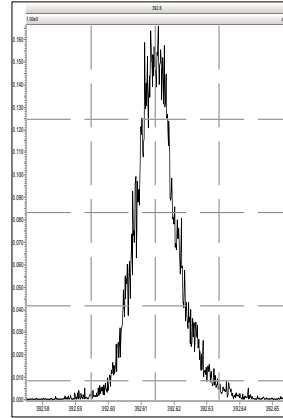
M 330.9792 R 13895



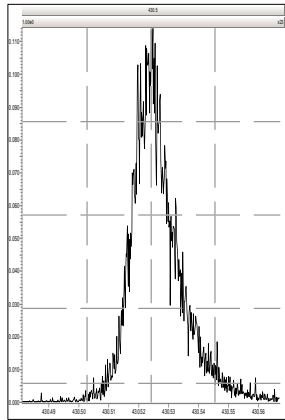
M 380.9760 R 13333



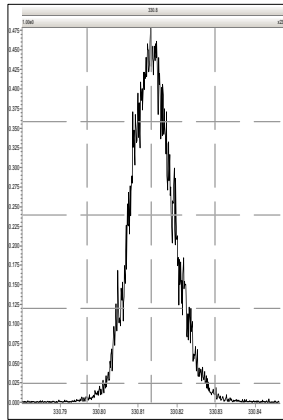
M 392.9760 R 13097



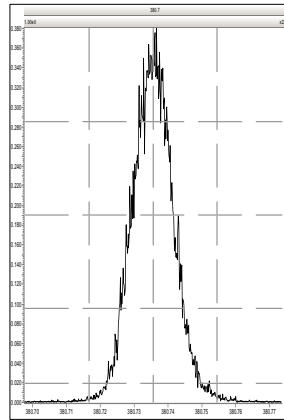
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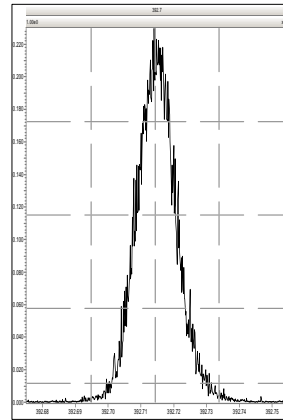
M 330.9792 R 13273



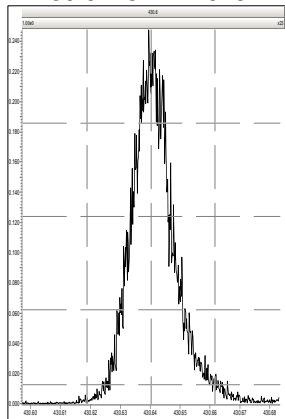
M 380.9760 R 13815



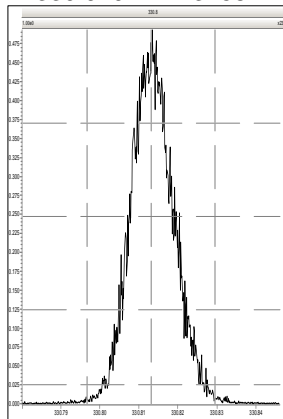
M 392.9760 R 13968



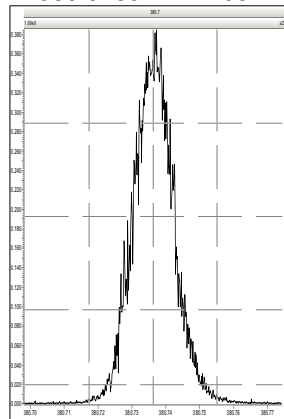
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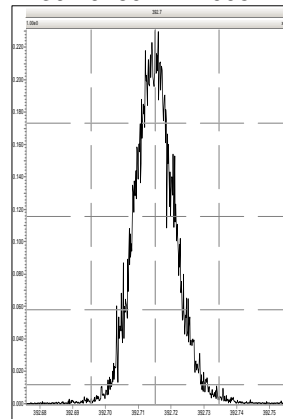
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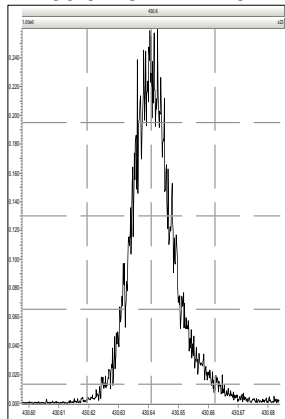
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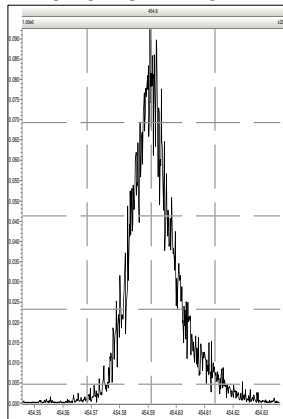
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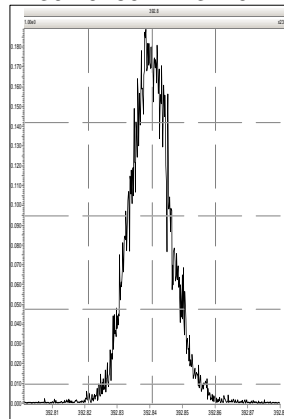
M 430.9728 R 12410



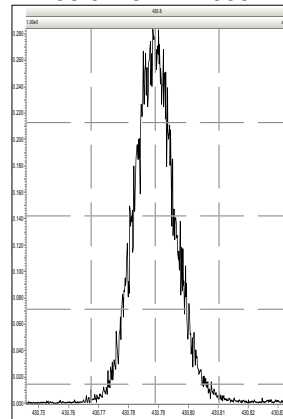
M 454.9728 R 12322



M 392.9760 R 13710

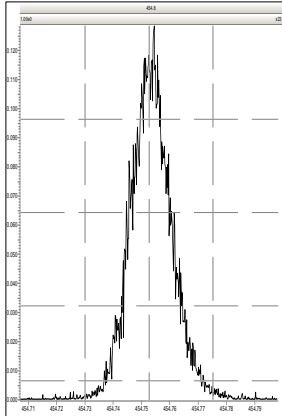


M 430.9728 R 14005

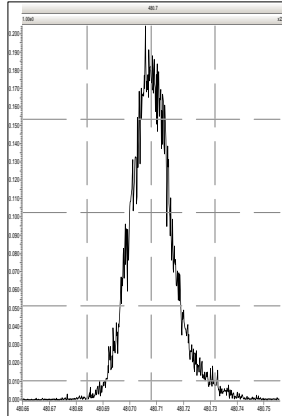


Printed: Tuesday, February 07, 2023 18:57:43 Pacific Standard Time

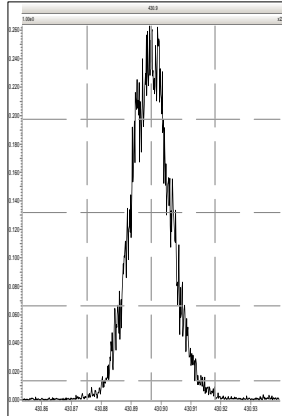
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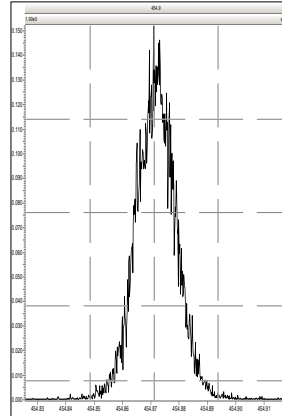
M 480.9696 R 13001



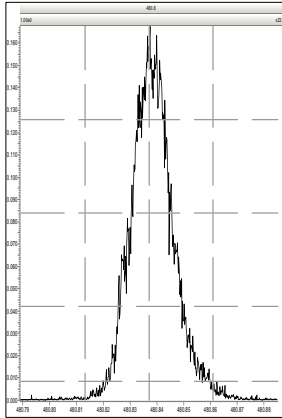
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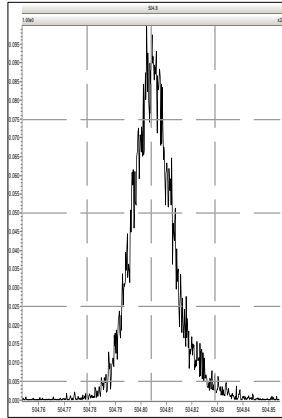
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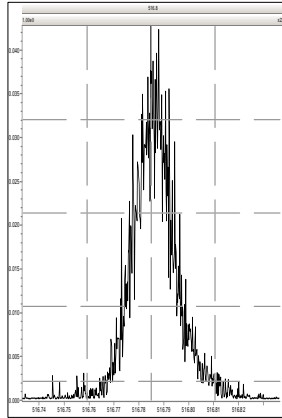
M 480.9696 R 12791



M 504.9696 R 13440



M 516.9697 R 12782

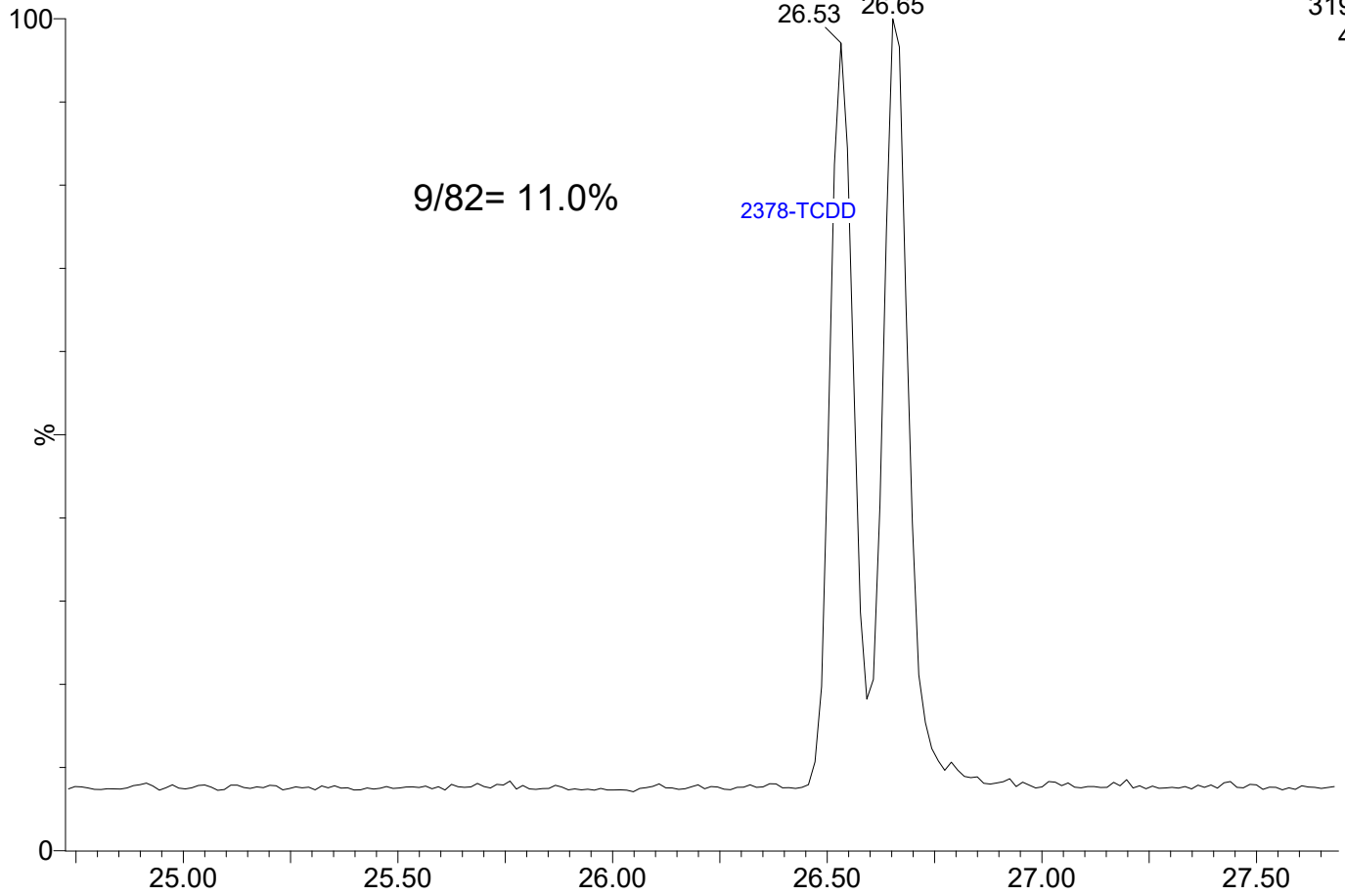


23020713

1: Voltage SIR 15 Channels EI+

319.8965

4.30e5

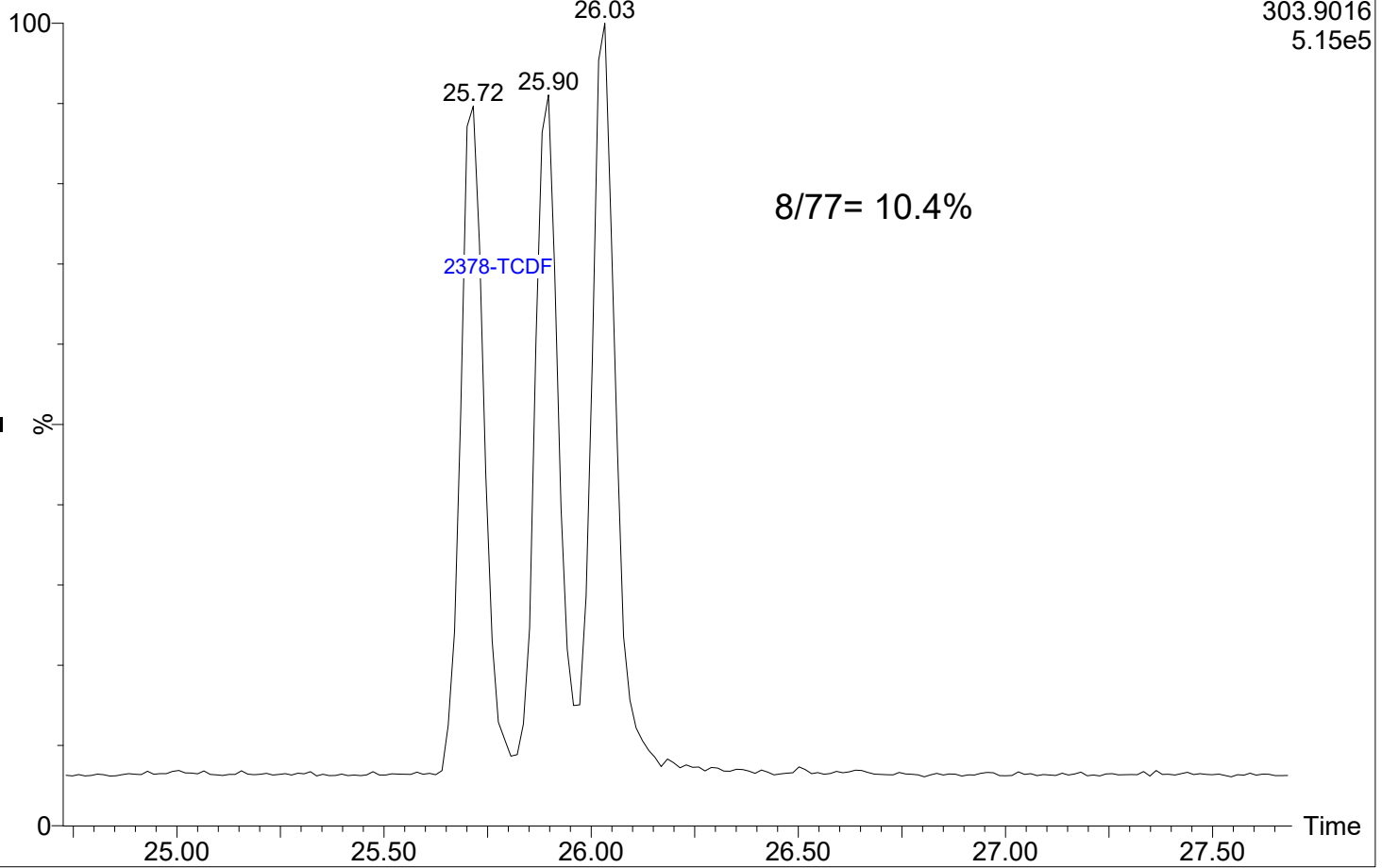


23020713

1: Voltage SIR 15 Channels EI+

303.9016

5.15e5





CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020721

Calibration Date: 02/01/2023

Sequence: SLB0072

Injection Date: 02/08/23

Lab Sample ID: SLB0072-CCV2

Injection Time: 01:35

Sequence Name: CS3T3

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	9.30	0.8760604	0.8145246		-7.0	+/-16
2,3,7,8-TCDD	A	10.000	9.18	1.2363600	1.1345480		-8.2	+/-22
1,2,3,7,8-PeCDF	A	50.000	46.2	0.8446540	0.7800109		-7.7	+/-18
2,3,4,7,8-PeCDF	A	50.000	47.0	0.9111780	0.8565973		-6.0	+/-18
1,2,3,7,8-PeCDD	A	50.000	47.8	1.0866850	1.0395050		-4.3	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	46.0	1.1816860	1.0866520		-8.0	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	45.1	1.2480480	1.1257010		-9.8	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	45.6	1.2288500	1.1212440		-8.8	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	46.9	1.1865370	1.1130750		-6.2	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	46.1	0.9869672	0.9093198		-7.9	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	45.9	1.0207220	0.9377266		-8.1	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	50.6	0.9854780	0.9940994		1.2	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	45.6	1.2041190	1.0988650		-8.7	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	46.4	1.1653050	1.0819840		-7.2	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	44.4	1.2525690	1.1119350		-11.2	+/-14
OCDF	A	100.00	80.1	1.1862640	0.9500443		-19.9	+/-37
OCDD	A	100.00	89.9	1.1026670	0.9912677		-10.1	+/-21
13C12-2,3,7,8-TCDF	A	100.00	90.4	1.7680590	1.5979643		-9.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	104	1.1029470	1.1500778		4.3	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	96.0	1.5271250	1.4667768		-4.0	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	94.8	1.4662840	1.3895984		-5.2	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	103	0.9141518	0.9392497		2.7	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	82.8	1.0536610	0.8722192		-17.2	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	81.2	1.0799530	0.8773133		-18.8	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	84.2	1.0143260	0.8541652		-15.8	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	82.9	0.9279333	0.7689716		-17.1	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	92.3	0.9329336	0.8608756		-7.7	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	90.7	0.9646272	0.8746126		-9.3	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	75.3	1.0360890	0.7805178		-24.7	+/-22 *
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	77.6	0.9049372	0.7020069		-22.4	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	84.6	0.7819773	0.6617408		-15.4	+/-28
13C12-OCDD	A	200.00	159	0.7882343	0.6273629		-20.4	+/-52
37C14-2,3,7,8-TCDD	A	10.000	9.10	1.2334500	1.1227087		-9.0	

* Values outside of QC limits

* Values outside of QC limits

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	25.867	1.001	2.989e4	3.883e4	0.876	0.770	0.770	689	925	4.67e5	6.10e5	677.6	659.2	NO	bb	bb	9.298
12378-PeCDF	30.026	1.000	1.808e5	1.213e5	0.845	1.491	1.550	1124	1652	2.80e6	1.90e6	2491.0	1152.8	NO	bb	bb	46.173
23478-PeCDF	31.363	1.001	1.881e5	1.261e5	0.911	1.492	1.550	1124	1652	2.94e6	1.97e6	2612.3	1195.3	NO	bb	bb	47.005
123478-HxCDF	34.984	1.001	2.009e5	1.593e5	1.182	1.261	1.240	1476	1211	3.21e6	2.54e6	2175.4	2100.1	NO	bd	bd	45.979
234678-HxCDF	35.987	1.001	2.001e5	1.639e5	1.229	1.221	1.240	1476	1211	3.20e6	2.59e6	2167.0	2141.2	NO	bb	bb	45.622
123678-HxCDF	35.118	1.000	2.094e5	1.659e5	1.248	1.263	1.240	1476	1211	3.21e6	2.56e6	2174.0	2115.2	NO	dd	db	45.098
123789-HxCDF	37.012	1.001	1.800e5	1.452e5	1.187	1.239	1.240	1476	1211	2.76e6	2.22e6	1866.8	1830.5	NO	bb	bd	46.904
1234678-HpCDF	38.850	1.000	1.639e5	1.620e5	1.204	1.012	1.050	1257	1463	2.72e6	2.63e6	2165.1	1796.7	NO	bb	bd	45.629
1234789-HpCDF	41.101	1.001	1.449e5	1.438e5	1.165	1.008	1.050	1257	1463	2.06e6	2.04e6	1637.1	1396.2	NO	bd	bd	46.425
OCDF	45.367	1.006	2.150e5	2.381e5	1.186	0.903	0.890	767	924	2.51e6	2.77e6	3275.0	2997.0	NO	bd	bd	80.087
2378-TCDD	26.501	1.001	3.017e4	3.872e4	1.236	0.779	0.770	957	775	4.59e5	5.98e5	479.8	770.8	NO	bb	bb	9.177
12378-PeCDD	31.619	1.001	1.569e5	1.008e5	1.087	1.557	1.550	1447	1164	2.39e6	1.55e6	1655.1	1332.8	NO	bb	bb	47.829
123478-HxCDD	36.087	1.000	1.628e5	1.347e5	0.987	1.209	1.240	1281	1025	2.78e6	2.31e6	2170.2	2258.0	NO	bd	bd	46.066
123678-HxCDD	36.209	1.001	1.712e5	1.405e5	1.021	1.219	1.240	1281	1025	2.74e6	2.23e6	2137.2	2174.2	NO	db	db	45.934
123789-HxCDD	36.588	1.011	1.819e5	1.469e5	0.985	1.238	1.240	1281	1025	3.02e6	2.42e6	2356.9	2363.4	NO	bb	bb	50.590
1234678-HpCDD	40.354	1.001	1.427e5	1.369e5	1.253	1.043	1.050	1275	1044	2.18e6	2.06e6	1709.2	1971.6	NO	bd	bd	44.386
OCDD	45.129	1.000	2.232e5	2.494e5	1.103	0.895	0.890	1183	1172	2.67e6	3.00e6	2259.7	2563.3	NO	bd	bb	89.897
13C-2378-TCDF	25.851	1.007	3.686e5	4.752e5	1.768	0.776	0.770	1717	987	5.74e6	7.30e6	3340.5	7402.0	NO	bb	bb	90.380
13C-12378-PeCDF	30.015	1.169	4.675e5	3.069e5	1.527	1.523	1.550	1282	1259	7.16e6	4.68e6	5579.9	3717.3	NO	bb	bb	96.048
13C-23478-PeCDF	31.341	1.221	4.457e5	2.880e5	1.466	1.548	1.550	1282	1259	6.78e6	4.38e6	5283.5	3476.7	NO	bb	bb	94.770
13C-123478-HxCDF	34.962	0.956	2.233e5	4.396e5	1.054	0.508	0.510	1208	1293	3.58e6	7.13e6	2964.2	5517.4	NO	bd	bd	82.780
13C-123678-HxCDF	35.106	0.960	2.280e5	4.388e5	1.080	0.520	0.510	1208	1293	3.65e6	7.09e6	3022.4	5486.0	NO	db	db	81.236
13C-234678-HxCDF	35.964	0.983	2.191e5	4.301e5	1.014	0.510	0.510	1208	1293	3.66e6	7.13e6	3026.3	5516.7	NO	bb	bb	84.210
13C-123789-HxCDF	36.989	1.011	1.970e5	3.874e5	0.928	0.509	0.510	1208	1293	3.32e6	6.48e6	2745.9	5009.8	NO	bb	bb	82.869
13C-1234678-HpCDF	38.839	1.062	1.843e5	4.089e5	1.036	0.451	0.440	1197	1846	3.08e6	6.73e6	2576.4	3646.6	NO	bb	bb	75.333
13C-1234789-HpCDF	41.078	1.123	1.659e5	3.677e5	0.905	0.451	0.440	1197	1846	2.39e6	5.27e6	1994.8	2855.6	NO	bb	bb	77.575
13C-1234-TCDD	25.670	0.000	2.314e5	2.965e5	1.000	0.780	0.770	1333	873	3.68e6	4.66e6	2762.2	5343.9	NO	bb	bb	100.000
13C-2378-TCDD	26.486	1.032	2.646e5	3.427e5	1.103	0.772	0.770	1333	873	4.17e6	5.36e6	3127.0	6142.0	NO	bb	bb	104.273
13C-12378-PeCDD	31.597	1.231	3.054e5	1.905e5	0.914	1.603	1.550	815	748	4.67e6	2.92e6	5733.6	3904.7	NO	bd	bb	102.745
13C-123478-HxCDD	36.076	0.986	3.680e5	2.863e5	0.933	1.285	1.240	1195	1669	6.27e6	4.84e6	5248.6	2900.5	NO	bd	bd	92.276
13C-123678-HxCDD	36.187	0.989	3.693e5	2.955e5	0.965	1.250	1.240	1195	1669	6.01e6	4.83e6	5026.2	2896.6	NO	db	db	90.668
13C-1234678-HpCDD	40.332	1.103	2.646e5	2.383e5	0.782	1.110	1.050	1103	1181	3.95e6	3.73e6	3582.0	3159.4	NO	bd	bb	84.624
13C-OCDD	45.111	1.233	4.546e5	4.991e5	0.788	0.911	0.890	1981	1422	5.61e6	6.19e6	2832.2	4348.8	NO	bb	bb	159.182
13C-123789-HxCDD	36.577	0.000	4.226e5	3.374e5	1.000	1.252	1.240	1195	1669	7.00e6	5.67e6	5856.2	3396.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.501	1.032	5.928e4		1.233			1148		9.29e5		809.5			bb		9.102

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	22.344	0.864	3.342e4	4.455e4	1.064	0.750	0.770	689	925	5.30e5	7.02e5	768.7	759.5	NO	bb	bb	8.681
1289-TCDF	27.363	1.058	2.927e4	3.773e4	0.858	0.776	0.770	689	925	4.37e5	5.75e5	634.3	622.1	NO	db	bb	9.259
13468-PECDF	27.212	0.907	2.454e5	1.594e5	1.013	1.540	1.550	569	815	3.71e6	2.39e6	6521.3	2933.4	NO	bb	bb	51.598
12389-PECDF					0.844		1.550	1124	1652								
123468-HXCDF	33.324	0.953	1.979e5	1.581e5	1.197	1.252	1.240	1476	1211	3.03e6	2.41e6	2052.5	1991.6	NO	bd	bd	44.844
1368-TCDD	23.629	0.892	2.686e4	3.446e4	1.084	0.780	0.770	957	775	4.19e5	5.33e5	437.7	687.4	NO	bb	bb	9.313
1289-TCDD	27.106	1.023	2.613e4	3.300e4	0.975	0.792	0.770	957	775	4.04e5	5.11e5	422.2	659.1	NO	bb	bd	9.985
12479-PECDD	28.890	0.914	2.667e5	1.702e5	1.837	1.567	1.550	1447	1164	2.61e6	1.66e6	1801.1	1425.3	NO	bb	bb	47.957
12389-PECDD	32.009	1.013	1.833e5	1.186e5	1.252	1.545	1.550	1447	1164	2.80e6	1.84e6	1938.2	1581.8	NO	bb	bb	48.611
124679-HXCDD	34.093	0.945	1.692e5	1.400e5	1.033	1.209	1.240	1281	1025	2.67e6	2.22e6	2084.0	2160.6	NO	bb	bb	45.755
1234679-HPCDD	39.296	0.974	1.557e5	1.502e5	1.286	1.036	1.050	1275	1044	2.52e6	2.45e6	1975.5	2343.0	NO	bd	bb	47.294
Total-tetrafurans			9.279e4		0.933			689		1.44e6							27.296
Total-penta1			2.454e5					569		3.71e6							51.598
Total-pentafurans			5.771e5		0.866			1124		8.83e6							146.147
Total-hexafurans			9.889e5		1.208			1476		1.54e7							228.578
Total-heptafurans			3.088e5		1.185			1257		4.78e6							92.054
Total-Furans			2.428e6		1.067			689		3.67e7							625.761
Total-tetradoxins			1.410e5		1.099			957		1.95e6							48.007
Total-pentadoxins			6.070e5		1.392			1447		7.80e6							144.398
Total-hexadoxins			6.851e5		1.007			1281		1.12e7							188.346
Total-heptadoxins			2.984e5		1.269			1275		4.70e6							91.680
Total-Dioxins			1.955e6		1.165			957		2.83e7							562.328
Total-TEQ			4.383e6					957		6.50e7							1188.088
FUNCTION1 PFK			2.134e5					477536		5.49e6							
FUNCTION2 PFK			1.786e5					215339		5.47e6							0.000
FUNCTION3 PFK			3.692e6					270408		5.38e6							0.000
FUNCTION4 PFK			2.158e5					174561		4.37e6							
FUNCTION5 PFK			1.125e5					115763		4.12e6							
FUNCTION1 HXCD...			1.086e2					438		1.36e3							0.000
FUNCTION1 HPCD...			1.250e2					565		2.02e3							0.000
FUNCTION2 HPCD...			3.788e2					645		4.78e3							0.000
FUNCTION3 OCDPE			8.291e1					503		1.47e3							0.000
FUNCTION4 NCDPE			7.754e1					542		1.15e3							0.000
FUNCTION5 DCDPE			0.000e0					662		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:32:51 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10**Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	27.36	2.927e4	3.773e4	0.858	0.78	0.77	634.3	YES	NO	db	bb	9.259
2	2378-TCDF	25.87	2.989e4	3.883e4	0.876	0.77	0.77	677.6	YES	NO	bb	bb	9.298
3	Total-tetrafurans	24.76	2.129e2	2.476e2	0.933	0.86	0.77	4.9	YES	NO	dd	bb	0.059
4	1368-TCDF	22.34	3.342e4	4.455e4	1.064	0.75	0.77	768.7	YES	NO	bb	bb	8.681

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.21	2.454e5	1.594e5	1.013	1.54	1.55	6521.3	YES	NO	bb	bb	51.598

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	30.03	1.808e5	1.213e5	0.845	1.49	1.55	2491.0	YES	NO	bb	bb	46.173
2	Total-pentafurans	28.88	2.988e4	2.022e4	0.866	1.48	1.55	414.7	YES	NO	bb	bb	7.668
3	Total-pentafurans	32.40	1.783e5	1.177e5	0.866	1.51	1.55	2333.4	YES	NO	bb	bb	45.302
4	23478-PeCDF	31.36	1.881e5	1.261e5	0.911	1.49	1.55	2612.3	YES	NO	bb	bb	47.005

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.49	5.853e2	4.225e2	1.208	1.39	1.24	10.4	YES	NO	dd	db	0.130
2	123468-HxCDF	33.32	1.979e5	1.581e5	1.197	1.25	1.24	2052.5	YES	NO	bd	bd	44.844
3	123789-HxCDF	37.01	1.800e5	1.452e5	1.187	1.24	1.24	1866.8	YES	NO	bb	bd	46.904
4	234678-HxCDF	35.99	2.001e5	1.639e5	1.229	1.22	1.24	2167.0	YES	NO	bb	bb	45.622
5	123678-HxCDF	35.12	2.094e5	1.659e5	1.248	1.26	1.24	2174.0	YES	NO	dd	db	45.098
6	123478-HxCDF	34.98	2.009e5	1.593e5	1.182	1.26	1.24	2175.4	YES	NO	bd	bd	45.979

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.10	1.449e5	1.438e5	1.165	1.01	1.05	1637.1	YES	NO	bd	bd	46.425
2	1234678-HpCDF	38.85	1.639e5	1.620e5	1.204	1.01	1.05	2165.1	YES	NO	bb	bd	45.629

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	27.36	2.927e4	3.773e4	0.858	0.78	0.77	634.3	YES	NO	db	bb	9.259
2	2378-TCDF	25.87	2.989e4	3.883e4	0.876	0.77	0.77	677.6	YES	NO	bb	bb	9.298
3	Total-tetrafurans	24.76	2.129e2	2.476e2	0.933	0.86	0.77	4.9	YES	NO	dd	bb	0.059
4	1368-TCDF	22.34	3.342e4	4.455e4	1.064	0.75	0.77	768.7	YES	NO	bb	bb	8.681
5	12378-PeCDF	30.03	1.808e5	1.213e5	0.845	1.49	1.55	2491.0	YES	NO	bb	bb	46.173
6	Total-pentafurans	28.88	2.988e4	2.022e4	0.866	1.48	1.55	414.7	YES	NO	bb	bb	7.668
7	Total-hexafurans	33.49	5.853e2	4.225e2	1.208	1.39	1.24	10.4	YES	NO	dd	db	0.130
8	123468-HXCDF	33.32	1.979e5	1.581e5	1.197	1.25	1.24	2052.5	YES	NO	bd	bd	44.844
9	Total-pentafurans	32.40	1.783e5	1.177e5	0.866	1.51	1.55	2333.4	YES	NO	bb	bb	45.302
10	23478-PeCDF	31.36	1.881e5	1.261e5	0.911	1.49	1.55	2612.3	YES	NO	bb	bb	47.005
11	123789-HxCDF	37.01	1.800e5	1.452e5	1.187	1.24	1.24	1866.8	YES	NO	bb	bd	46.904
12	234678-HxCDF	35.99	2.001e5	1.639e5	1.229	1.22	1.24	2167.0	YES	NO	bb	bb	45.622
13	123678-HxCDF	35.12	2.094e5	1.659e5	1.248	1.26	1.24	2174.0	YES	NO	dd	db	45.098
14	123478-HxCDF	34.98	2.009e5	1.593e5	1.182	1.26	1.24	2175.4	YES	NO	bd	bd	45.979
15	1234789-HpCDF	41.10	1.449e5	1.438e5	1.165	1.01	1.05	1637.1	YES	NO	bd	bd	46.425
16	1234678-HpCDF	38.85	1.639e5	1.620e5	1.204	1.01	1.05	2165.1	YES	NO	bb	bd	45.629
17	OCDF	45.37	2.150e5	2.381e5	1.186	0.90	0.89	3275.0	YES	NO	bd	bd	80.087
18	13468-PECDF	27.21	2.454e5	1.594e5	1.013	1.54	1.55	6521.3	YES	NO	bb	bb	51.598

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.63	2.686e4	3.446e4	1.084	0.78	0.77	437.7	YES	NO	bb	bb	9.313
2	1289-TCDD	27.11	2.613e4	3.300e4	0.975	0.79	0.77	422.2	YES	NO	bb	bd	9.985
3	2378-TCDD	26.50	3.017e4	3.872e4	1.236	0.78	0.77	479.8	YES	NO	bb	bb	9.177
4	Total-tetradioxins	26.18	4.356e4	5.516e4	1.099	0.79	0.77	474.0	YES	NO	bb	bb	14.798
5	Total-tetradioxins	25.68	1.401e4	1.679e4	1.099	0.83	0.77	222.9	YES	NO	bd	bb	4.616
6	Total-tetradioxins	25.10	3.249e2	4.667e2	1.099	0.70	0.77	4.8	YES	NO	bb	bb	0.119

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.01	1.833e5	1.186e5	1.252	1.54	1.55	1938.2	YES	NO	bb	bb	48.611
2	12378-PeCDD	31.62	1.569e5	1.008e5	1.087	1.56	1.55	1655.1	YES	NO	bb	bb	47.829
3	12479-PECDD	28.89	2.667e5	1.702e5	1.837	1.57	1.55	1801.1	YES	NO	bb	bb	47.957

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	34.09	1.692e5	1.400e5	1.033	1.21	1.24	2084.0	YES	NO	bb	bb	45.755
2	123789-HxCDD	36.59	1.819e5	1.469e5	0.985	1.24	1.24	2356.9	YES	NO	bb	bb	50.590
3	123678-HxCDD	36.21	1.712e5	1.405e5	1.021	1.22	1.24	2137.2	YES	NO	db	db	45.934
4	123478-HxCDD	36.09	1.628e5	1.347e5	0.987	1.21	1.24	2170.2	YES	NO	bd	bd	46.066

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.35	1.427e5	1.369e5	1.253	1.04	1.05	1709.2	YES	NO	bd	bd	44.386
2	1234679-HPCDD	39.30	1.557e5	1.502e5	1.286	1.04	1.05	1975.5	YES	NO	bd	bb	47.294

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	23.63	2.686e4	3.446e4	1.084	0.78	0.77	437.7	YES	NO	bb	bb	9.313
2	1289-TCDD	27.11	2.613e4	3.300e4	0.975	0.79	0.77	422.2	YES	NO	bb	bd	9.985
3	2378-TCDD	26.50	3.017e4	3.872e4	1.236	0.78	0.77	479.8	YES	NO	bb	bb	9.177
4	Total-tetradoxins	26.18	4.356e4	5.516e4	1.099	0.79	0.77	474.0	YES	NO	bb	bb	14.798
5	Total-tetradoxins	25.68	1.401e4	1.679e4	1.099	0.83	0.77	222.9	YES	NO	bd	bb	4.616
6	Total-tetradoxins	25.10	3.249e2	4.667e2	1.099	0.70	0.77	4.8	YES	NO	bb	bb	0.119
7	12389-PECDD	32.01	1.833e5	1.186e5	1.252	1.54	1.55	1938.2	YES	NO	bb	bb	48.611
8	12378-PeCDD	31.62	1.569e5	1.008e5	1.087	1.56	1.55	1655.1	YES	NO	bb	bb	47.829
9	12479-PECDD	28.89	2.667e5	1.702e5	1.837	1.57	1.55	1801.1	YES	NO	bb	bb	47.957
10	124679-HxCDD	34.09	1.692e5	1.400e5	1.033	1.21	1.24	2084.0	YES	NO	bb	bb	45.755
11	123789-HxCDD	36.59	1.819e5	1.469e5	0.985	1.24	1.24	2356.9	YES	NO	bb	bb	50.590
12	123678-HxCDD	36.21	1.712e5	1.405e5	1.021	1.22	1.24	2137.2	YES	NO	db	db	45.934
13	123478-HxCDD	36.09	1.628e5	1.347e5	0.987	1.21	1.24	2170.2	YES	NO	bd	bd	46.066
14	1234678-HpCDD	40.35	1.427e5	1.369e5	1.253	1.04	1.05	1709.2	YES	NO	bd	bd	44.386
15	1234679-HPCDD	39.30	1.557e5	1.502e5	1.286	1.04	1.05	1975.5	YES	NO	bd	bb	47.294
16	OCDD	45.13	2.232e5	2.494e5	1.103	0.89	0.89	2259.7	YES	NO	bd	bb	89.897

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	27.36	2.927e4	3.773e4	0.858	0.78	0.77	634.3	YES	NO	db	bb	9.259
2	2378-TCDF	25.87	2.989e4	3.883e4	0.876	0.77	0.77	677.6	YES	NO	bb	bb	9.298
3	Total-tetrafurans	24.76	2.129e2	2.476e2	0.933	0.86	0.77	4.9	YES	NO	dd	bb	0.059
4	1368-TCDF	22.34	3.342e4	4.455e4	1.064	0.75	0.77	768.7	YES	NO	bb	bb	8.681
5	12378-PeCDF	30.03	1.808e5	1.213e5	0.845	1.49	1.55	2491.0	YES	NO	bb	bb	46.173
6	Total-pentafurans	28.88	2.988e4	2.022e4	0.866	1.48	1.55	414.7	YES	NO	bb	bb	7.668
7	Total-hexafurans	33.49	5.853e2	4.225e2	1.208	1.39	1.24	10.4	YES	NO	dd	db	0.130
8	123468-HxCDF	33.32	1.979e5	1.581e5	1.197	1.25	1.24	2052.5	YES	NO	bd	bd	44.844
9	Total-pentafurans	32.40	1.783e5	1.177e5	0.866	1.51	1.55	2333.4	YES	NO	bb	bb	45.302
10	23478-PeCDF	31.36	1.881e5	1.261e5	0.911	1.49	1.55	2612.3	YES	NO	bb	bb	47.005
11	123789-HxCDF	37.01	1.800e5	1.452e5	1.187	1.24	1.24	1866.8	YES	NO	bb	bd	46.904
12	234678-HxCDF	35.99	2.001e5	1.639e5	1.229	1.22	1.24	2167.0	YES	NO	bb	bb	45.622
13	123678-HxCDF	35.12	2.094e5	1.659e5	1.248	1.26	1.24	2174.0	YES	NO	dd	db	45.098
14	123478-HxCDF	34.98	2.009e5	1.593e5	1.182	1.26	1.24	2175.4	YES	NO	bd	bd	45.979
15	1234789-HpCDF	41.10	1.449e5	1.438e5	1.165	1.01	1.05	1637.1	YES	NO	bd	bd	46.425
16	1234678-HpCDF	38.85	1.639e5	1.620e5	1.204	1.01	1.05	2165.1	YES	NO	bb	bd	45.629
17	OCDF	45.37	2.150e5	2.381e5	1.186	0.90	0.89	3275.0	YES	NO	bd	bd	80.087
18	13468-PECDF	27.21	2.454e5	1.594e5	1.013	1.54	1.55	6521.3	YES	NO	bb	bb	51.598
19	1368-TCDD	23.63	2.686e4	3.446e4	1.084	0.78	0.77	437.7	YES	NO	bb	bb	9.313
20	1289-TCDD	27.11	2.613e4	3.300e4	0.975	0.79	0.77	422.2	YES	NO	bb	bd	9.985
21	2378-TCDD	26.50	3.017e4	3.872e4	1.236	0.78	0.77	479.8	YES	NO	bb	bb	9.177
22	Total-tetradiioxins	26.18	4.356e4	5.516e4	1.099	0.79	0.77	474.0	YES	NO	bb	bb	14.798
23	Total-tetradiioxins	25.68	1.401e4	1.679e4	1.099	0.83	0.77	222.9	YES	NO	bd	bb	4.616
24	Total-tetradiioxins	25.10	3.249e2	4.667e2	1.099	0.70	0.77	4.8	YES	NO	bb	bb	0.119
25	12389-PECDD	32.01	1.833e5	1.186e5	1.252	1.54	1.55	1938.2	YES	NO	bb	bb	48.611
26	12378-PeCDD	31.62	1.569e5	1.008e5	1.087	1.56	1.55	1655.1	YES	NO	bb	bb	47.829
27	12479-PECDD	28.89	2.667e5	1.702e5	1.837	1.57	1.55	1801.1	YES	NO	bb	bb	47.957
28	124679-HXCDD	34.09	1.692e5	1.400e5	1.033	1.21	1.24	2084.0	YES	NO	bb	bb	45.755
29	123789-HxCDD	36.59	1.819e5	1.469e5	0.985	1.24	1.24	2356.9	YES	NO	bb	bb	50.590
30	123678-HxCDD	36.21	1.712e5	1.405e5	1.021	1.22	1.24	2137.2	YES	NO	db	db	45.934
31	123478-HxCDD	36.09	1.628e5	1.347e5	0.987	1.21	1.24	2170.2	YES	NO	bd	bd	46.066
32	1234678-HpCDD	40.35	1.427e5	1.369e5	1.253	1.04	1.05	1709.2	YES	NO	bd	bd	44.386
33	1234679-HPCDD	39.30	1.557e5	1.502e5	1.286	1.04	1.05	1975.5	YES	NO	bd	bb	47.294
34	OCDD	45.13	2.232e5	2.494e5	1.103	0.89	0.89	2259.7	YES	NO	bd	bb	89.897

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	26.70	2.023e4					1.3	NO		bb		
2	FUNCTION1 PFK	26.55	1.144e4					0.9	NO		bb		
3	FUNCTION1 PFK	26.49	4.635e3					0.6	NO		bb		
4	FUNCTION1 PFK	26.05	3.908e3					0.5	NO		bb		
5	FUNCTION1 PFK	25.40	1.187e4					0.9	NO		bb		
6	FUNCTION1 PFK	22.45	3.890e3					0.5	NO		bb		
7	FUNCTION1 PFK	22.22	6.548e4					2.2	NO		bb		
8	FUNCTION1 PFK	21.98	1.169e4					0.9	NO		bb		
9	FUNCTION1 PFK	21.72	1.145e4					1.0	NO		bb		
10	FUNCTION1 PFK	21.18	6.878e4					2.5	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:32:51 Pacific Standard Time

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.30	3.568e3					0.9	NO		bb		0.000
2	FUNCTION2 PFK	31.43	1.195e3					0.5	NO		bb		0.000
3	FUNCTION2 PFK	31.24	1.126e3					0.5	NO		bb		0.000
4	FUNCTION2 PFK	31.20	4.585e3					1.0	NO		db		0.000
5	FUNCTION2 PFK	31.16	6.978e3					1.2	NO		bd		0.000
6	FUNCTION2 PFK	31.11	1.585e4					1.6	NO		bb		0.000
7	FUNCTION2 PFK	30.32	2.082e3					0.6	NO		bb		0.000
8	FUNCTION2 PFK	30.09	6.311e3					1.3	NO		bb		0.000
9	FUNCTION2 PFK	29.99	5.210e3					1.2	NO		db		0.000
10	FUNCTION2 PFK	29.89	1.515e4					1.4	NO		bd		0.000
11	FUNCTION2 PFK	29.84	1.481e4					1.8	NO		bb		0.000
12	FUNCTION2 PFK	29.44	1.114e3					0.5	NO		bb		0.000
13	FUNCTION2 PFK	28.87	1.231e4					0.9	NO		bb		0.000
14	FUNCTION2 PFK	28.56	3.301e3					0.9	NO		bb		0.000
15	FUNCTION2 PFK	28.51	8.870e3					1.3	NO		bb		0.000
16	FUNCTION2 PFK	28.44	1.006e4					1.6	NO		bb		0.000
17	FUNCTION2 PFK	28.38	3.503e3					0.8	NO		bb		0.000
18	FUNCTION2 PFK	32.63	1.162e3					0.5	NO		bb		0.000
19	FUNCTION2 PFK	32.54	1.268e4					1.2	NO		bb		0.000
20	FUNCTION2 PFK	32.39	9.909e3					1.4	NO		bb		0.000
21	FUNCTION2 PFK	32.23	4.859e3					0.9	NO		bb		0.000
22	FUNCTION2 PFK	31.90	4.977e3					0.9	NO		bb		0.000
23	FUNCTION2 PFK	31.80	2.169e4					1.8	NO		bb		0.000
24	FUNCTION2 PFK	31.51	7.345e3					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	36.87	1.434e6					9.2	YES		bb		0.000
2	FUNCTION3 PFK	36.01	2.258e6					10.7	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:32:51 Pacific Standard Time

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	38.91	9.011e2					0.5	NO		bb		
2	FUNCTION4 PFK	38.30	5.373e3					1.0	NO		db		
3	FUNCTION4 PFK	38.24	2.063e4					2.9	NO		bd		
4	FUNCTION4 PFK	38.16	2.921e4					3.8	YES		db		
5	FUNCTION4 PFK	38.13	5.819e4					3.6	YES		bd		
6	FUNCTION4 PFK	42.75	3.865e3					1.0	NO		bb		
7	FUNCTION4 PFK	42.68	3.805e3					1.1	NO		bb		
8	FUNCTION4 PFK	41.91	2.761e3					0.6	NO		bb		
9	FUNCTION4 PFK	41.27	2.323e4					1.5	NO		db		
10	FUNCTION4 PFK	41.10	1.132e4					1.5	NO		bd		
11	FUNCTION4 PFK	40.65	7.650e3					1.5	NO		bb		
12	FUNCTION4 PFK	40.52	2.352e4					2.0	NO		bb		
13	FUNCTION4 PFK	39.82	1.782e4					2.0	NO		bb		
14	FUNCTION4 PFK	39.03	3.662e3					0.9	NO		db		
15	FUNCTION4 PFK	38.98	3.895e3					1.1	NO		bd		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

Printed: Wednesday, February 08, 2023 09:32:51 Pacific Standard Time

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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	43.35	2.092e3					0.7	NO		db		
2	FUNCTION5 PFK	43.31	4.272e3					1.4	NO		bd		
3	FUNCTION5 PFK	43.24	4.550e3					1.5	NO		bb		
4	FUNCTION5 PFK	43.11	3.078e3					1.3	NO		db		
5	FUNCTION5 PFK	43.07	2.926e3					1.4	NO		bd		
6	FUNCTION5 PFK	45.39	8.629e3					1.2	NO		db		
7	FUNCTION5 PFK	45.33	2.745e3					0.9	NO		bd		
8	FUNCTION5 PFK	45.28	3.286e3					1.2	NO		bb		
9	FUNCTION5 PFK	45.06	3.876e2					0.4	NO		bb		
10	FUNCTION5 PFK	44.86	4.044e3					1.1	NO		bb		
11	FUNCTION5 PFK	44.77	1.135e4					2.1	NO		bb		
12	FUNCTION5 PFK	44.68	9.812e3					1.9	NO		bb		
13	FUNCTION5 PFK	44.48	2.605e3					1.0	NO		db		
14	FUNCTION5 PFK	44.43	2.465e3					0.9	NO		bd		
15	FUNCTION5 PFK	44.28	4.028e2					0.4	NO		bb		
16	FUNCTION5 PFK	44.24	1.798e3					0.9	NO		bb		
17	FUNCTION5 PFK	44.08	5.712e3					1.4	NO		bb		
18	FUNCTION5 PFK	43.99	2.793e3					1.2	NO		bb		
19	FUNCTION5 PFK	43.79	4.234e3					1.1	NO		bb		
20	FUNCTION5 PFK	43.62	3.789e3					1.3	NO		db		
21	FUNCTION5 PFK	43.56	5.347e3					1.2	NO		bd		
22	FUNCTION5 PFK	46.46	1.270e3					0.8	NO		bb		
23	FUNCTION5 PFK	46.36	1.625e3					0.7	NO		bb		
24	FUNCTION5 PFK	46.16	5.790e2					0.5	NO		bb		
25	FUNCTION5 PFK	46.13	7.509e2					0.5	NO		db		
26	FUNCTION5 PFK	46.09	2.489e3					1.1	NO		bd		
27	FUNCTION5 PFK	45.88	4.478e3					1.2	NO		db		
28	FUNCTION5 PFK	45.83	6.104e3					1.8	NO		dd		
29	FUNCTION5 PFK	45.79	2.918e3					1.0	NO		dd		
30	FUNCTION5 PFK	45.75	2.440e3					0.9	NO		bd		
31	FUNCTION5 PFK	45.70	1.975e3					0.9	NO		bb		
32	FUNCTION5 PFK	45.55	5.406e2					0.5	NO		bb		
33	FUNCTION5 PFK	45.51	5.188e2					0.5	NO		bb		
34	FUNCTION5 PFK	45.48	5.220e2					0.5	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D1.qld

Last Altered: Wednesday, February 08, 2023 08:38:31 Pacific Standard Time

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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, 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...	23.83	1.086e2					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...	24.37	1.250e2					3.6	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...	31.20	3.788e2					7.4	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	36.58	8.291e1					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	FUNCTION4 NCDPE	40.65	7.754e1					2.1	NO		bb		0.000

ETHERS6

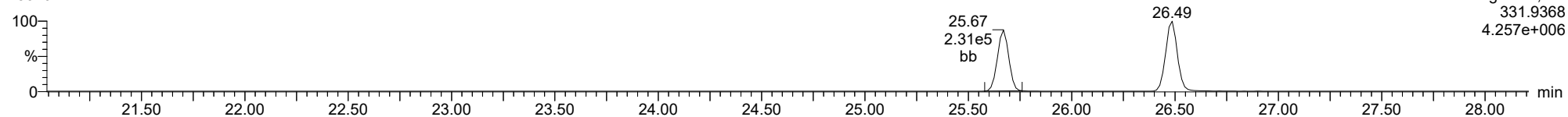
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1													

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

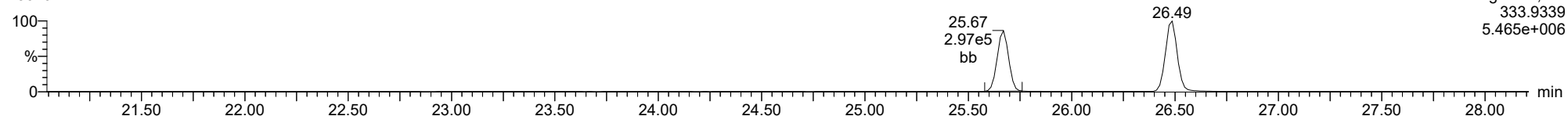
23020721



F1:Voltage SIR,El+
331.9368
4.257e+006

13C-1234-TCDD

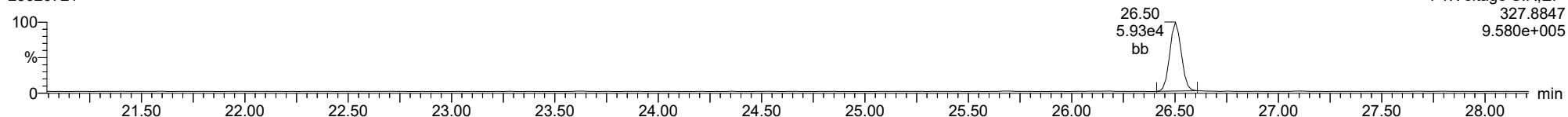
23020721



F1:Voltage SIR,El+
333.9339
5.465e+006

37CL-2378-TCDD

23020721

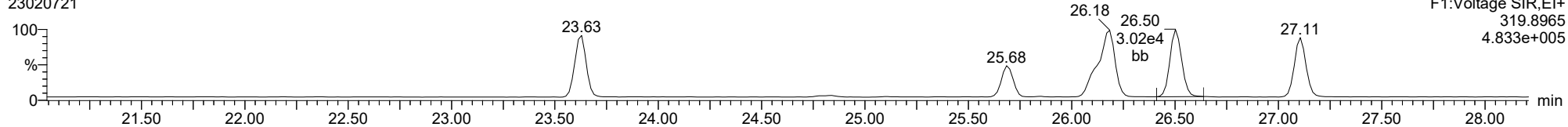


F1:Voltage SIR,El+
327.8847
9.580e+005

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

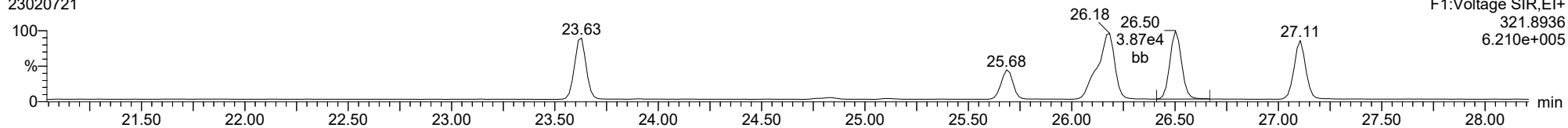
2378-TCDD

23020721



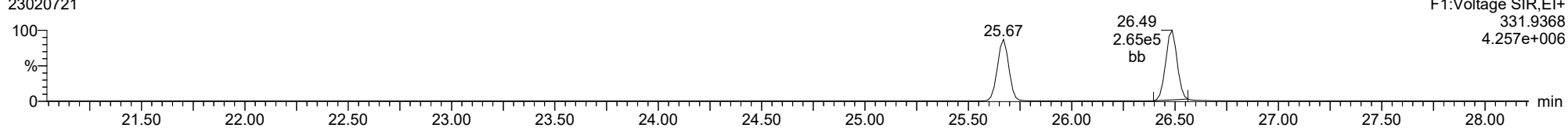
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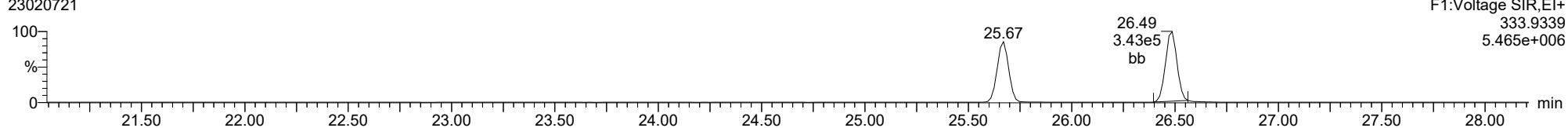
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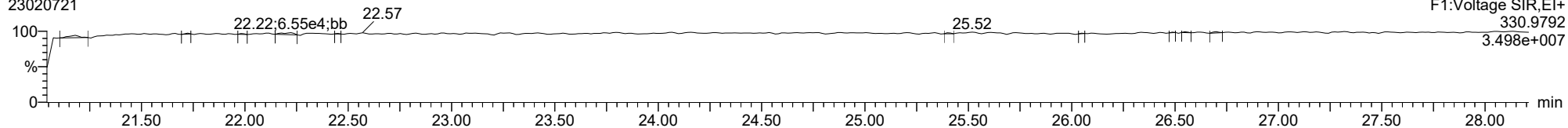
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23020721



FUNCTION1 PFK

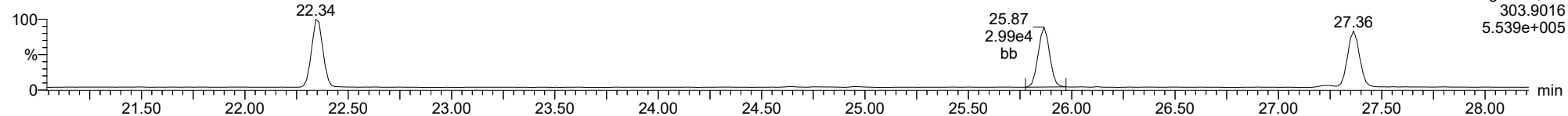
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

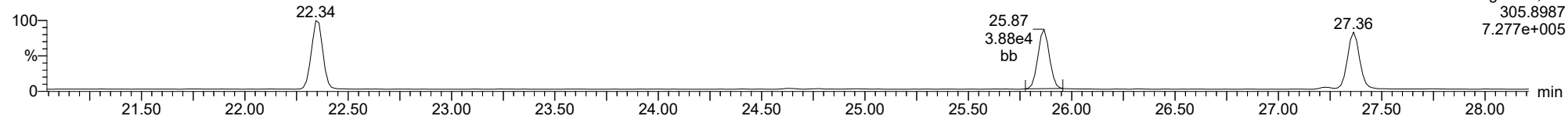
2378-TCDF

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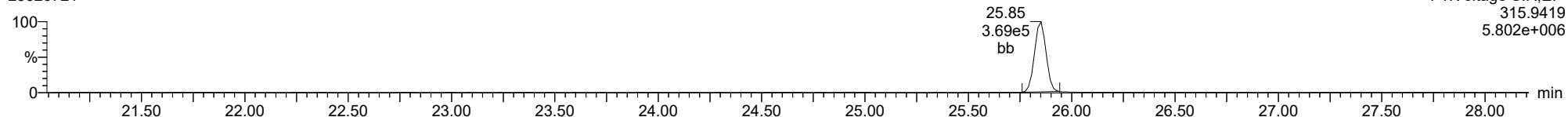
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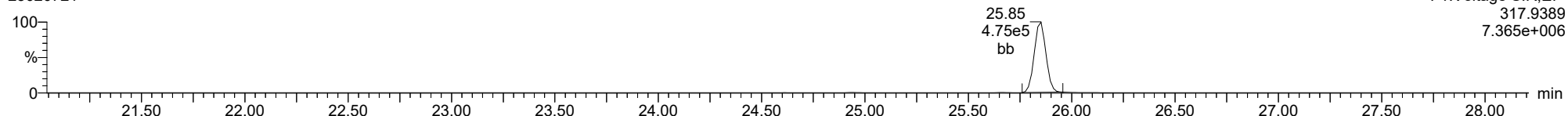
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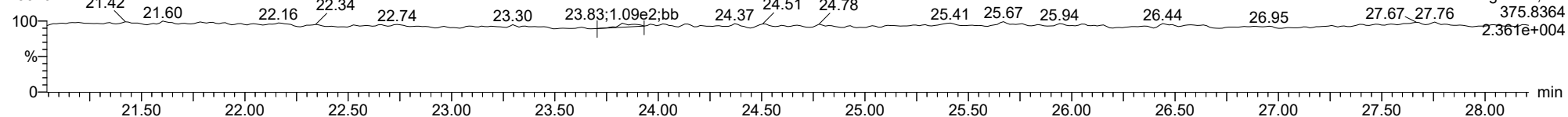
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FUNCTION1 HXCDPE

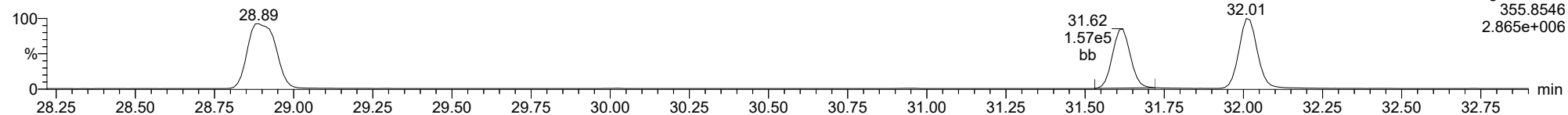
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

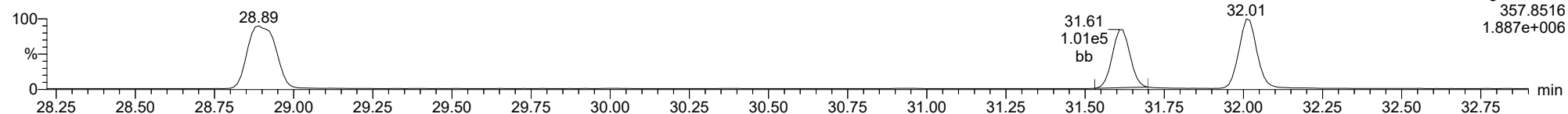
23020721



F2:Voltage SIR,EI+
355.8546
2.865e+006

12378-PeCDD

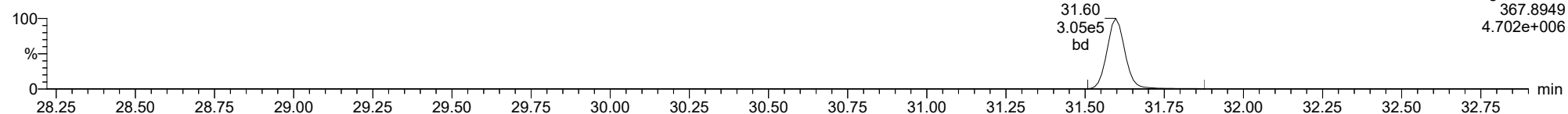
23020721



F2:Voltage SIR,EI+
357.8516
1.887e+006

13C-12378-PeCDD

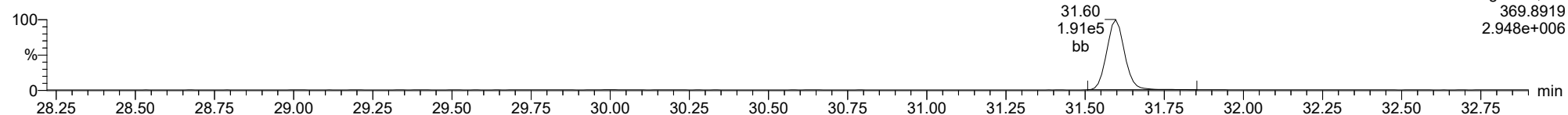
23020721



F2:Voltage SIR,EI+
367.8949
4.702e+006

13C-12378-PeCDD

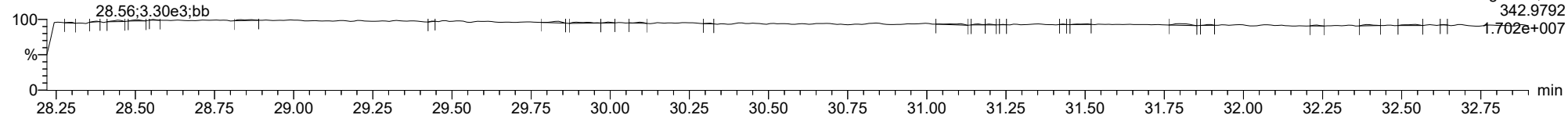
23020721



F2:Voltage SIR,EI+
369.8919
2.948e+006

FUNCTION2 PFK

23020721

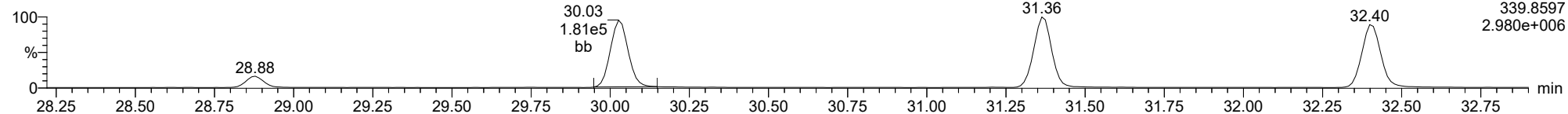


F2:Voltage SIR,EI+
342.9792
1.702e+007

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

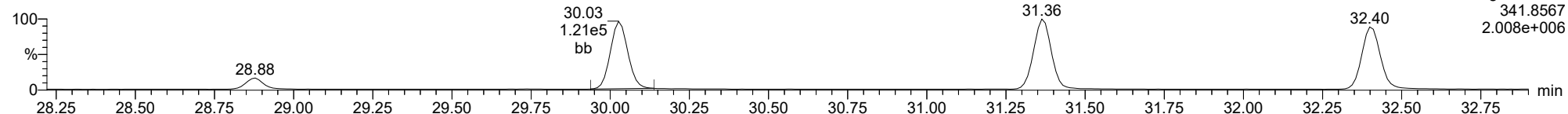
12378-PeCDF

23020721



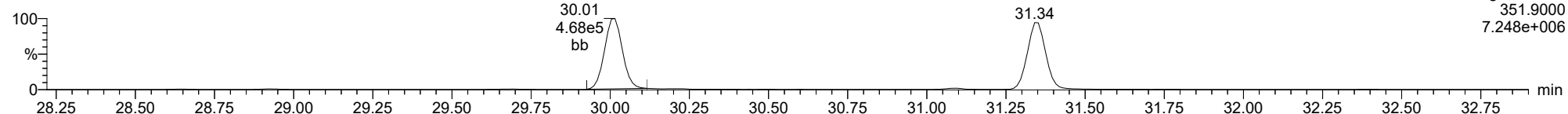
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23020721



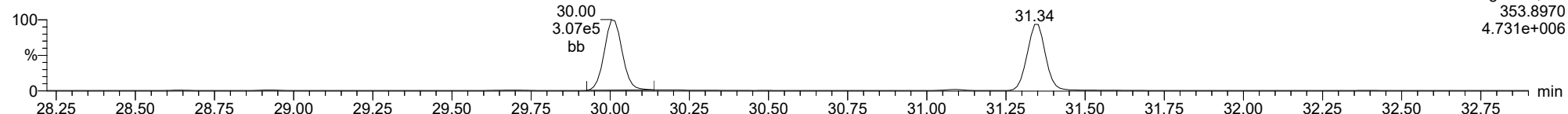
13C-12378-PeCDF

23020721



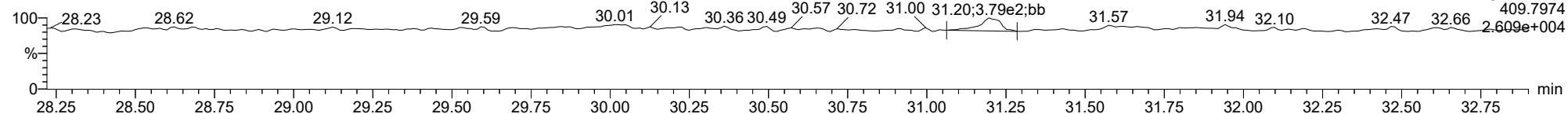
13C-12378-PeCDF

23020721



FUNCTION2 HPCDPE

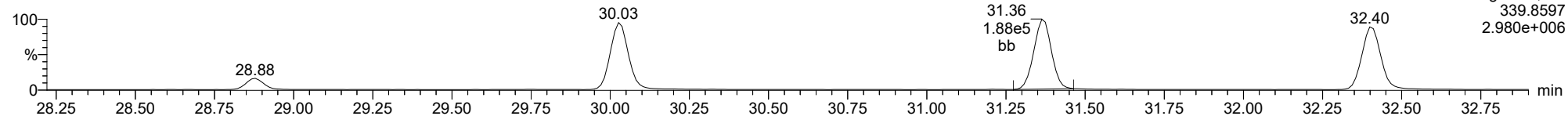
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

23478-PeCDF

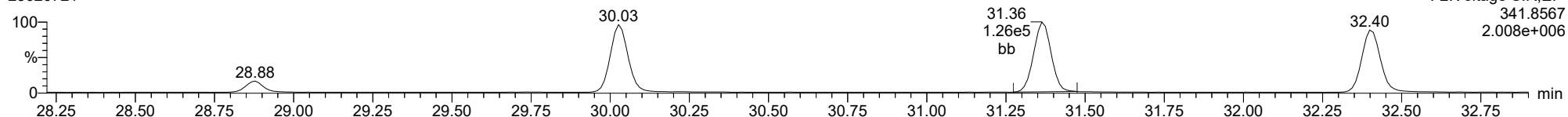
23020721



F2:Voltage SIR,EI+
339.8597
2.980e+006

23478-PeCDF

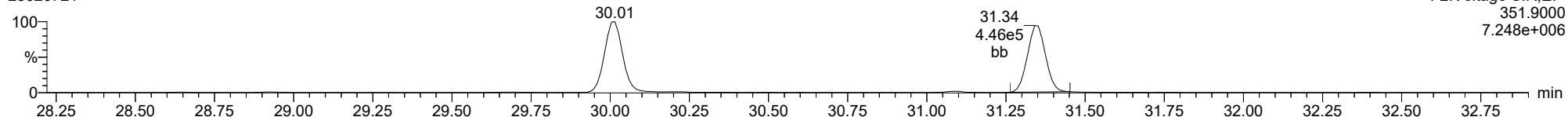
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F2:Voltage SIR,EI+
341.8567
2.008e+006

13C-23478-PeCDF

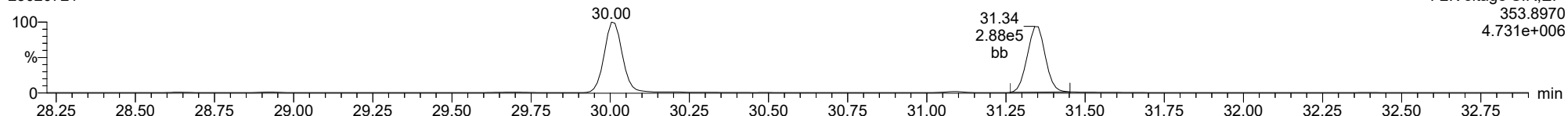
23020721



F2:Voltage SIR,EI+
351.9000
7.248e+006

13C-23478-PeCDF

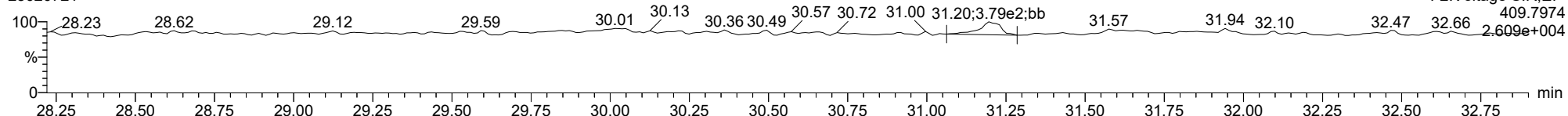
23020721



F2:Voltage SIR,EI+
353.8970
4.731e+006

FUNCTION2 HPCDPE

23020721

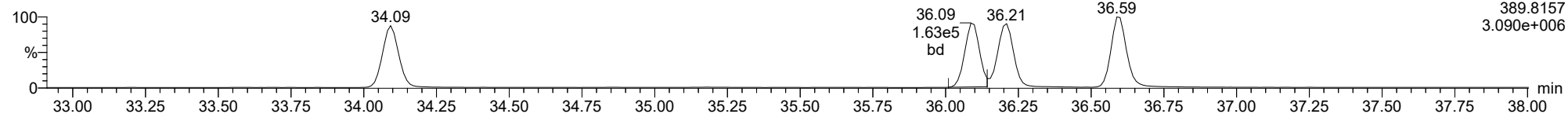


F2:Voltage SIR,EI+
409.7974
2.609e+004

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

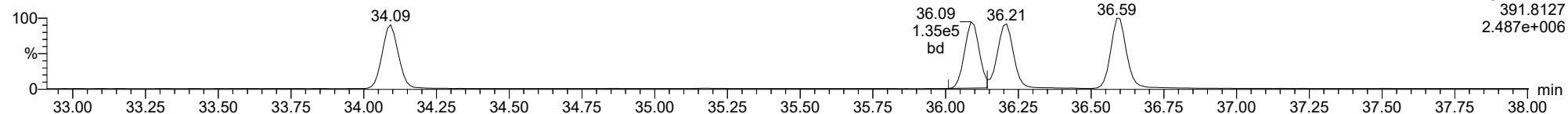
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F3:Voltage SIR,EI+
389.8157
3.090e+006

123478-HxCDD

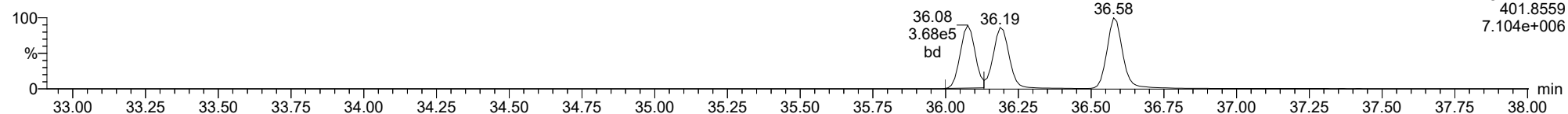
23020721



F3:Voltage SIR,EI+
391.8127
2.487e+006

13C-123478-HxCDD

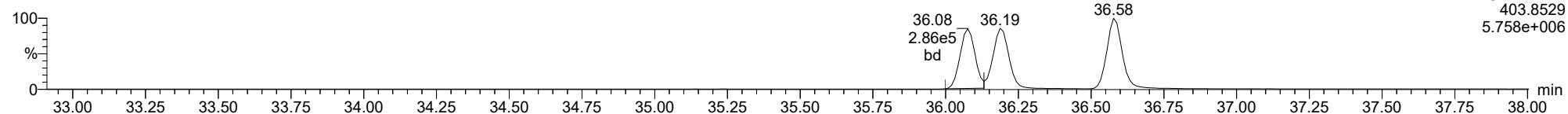
23020721



F3:Voltage SIR,EI+
401.8559
7.104e+006

13C-123478-HxCDD

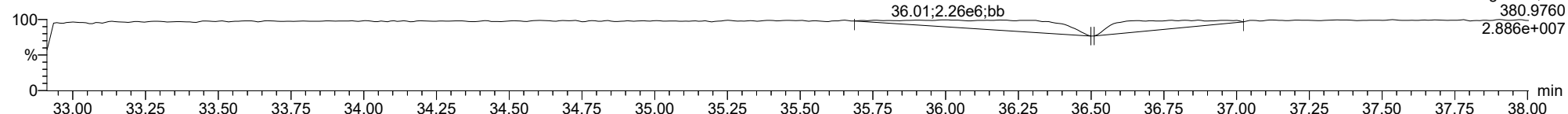
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F3:Voltage SIR,EI+
403.8529
5.758e+006

FUNCTION3 PFK

23020721

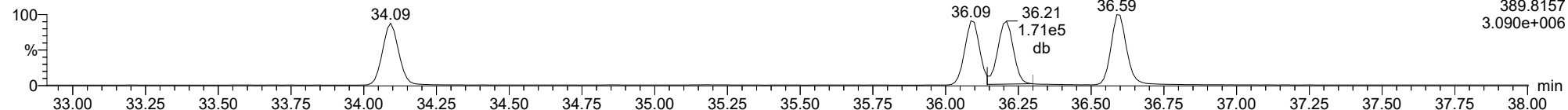


F3:Voltage SIR,EI+
380.9760
2.886e+007

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

123678-HxCDD

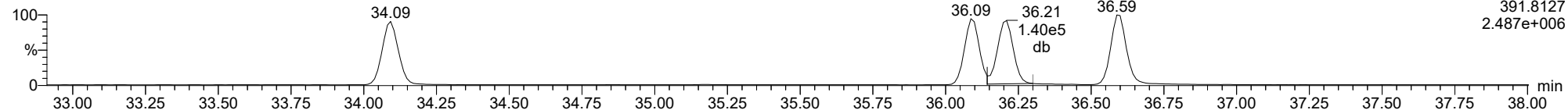
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F3:Voltage SIR,EI+
389.8157
3.090e+006

123678-HxCDD

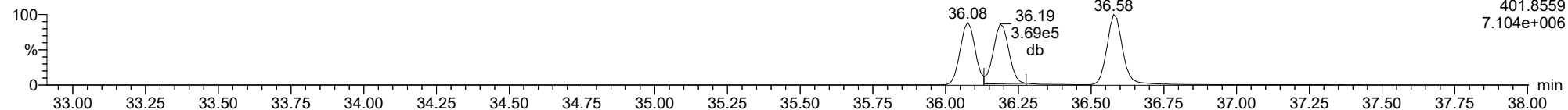
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F3:Voltage SIR,EI+
391.8127
2.487e+006

13C-123678-HxCDD

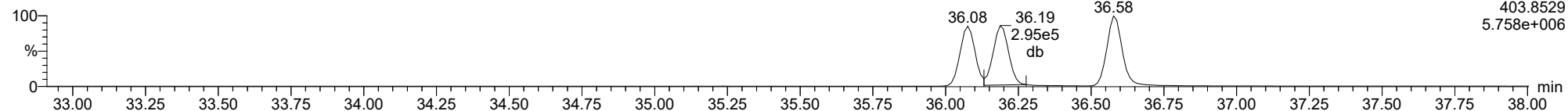
23020721



F3:Voltage SIR,EI+
401.8559
7.104e+006

13C-123678-HxCDD

23020721

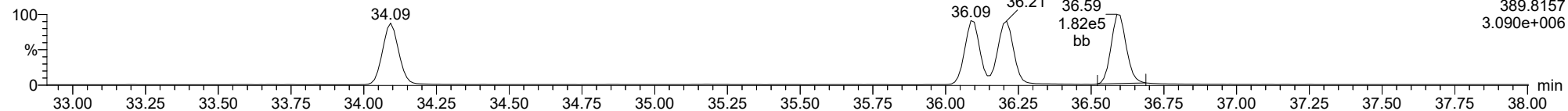


F3:Voltage SIR,EI+
403.8529
5.758e+006

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

123789-HxCDD

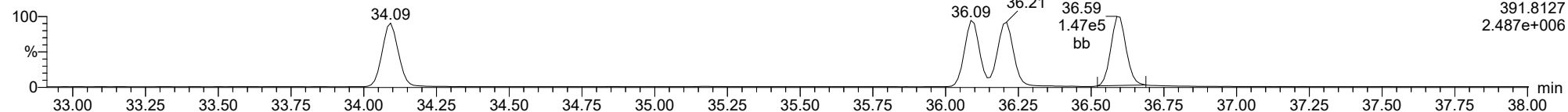
23020721



F3:Voltage SIR,EI+
389.8157
3.090e+006

123789-HxCDD

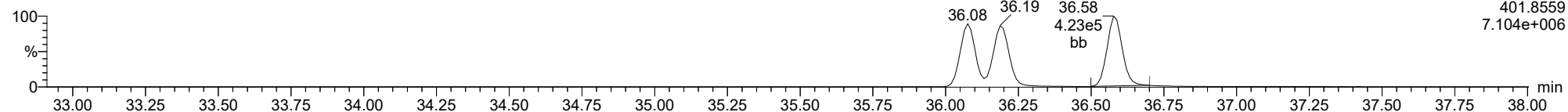
23020721



F3:Voltage SIR,EI+
391.8127
2.487e+006

13C-123789-HxCDD

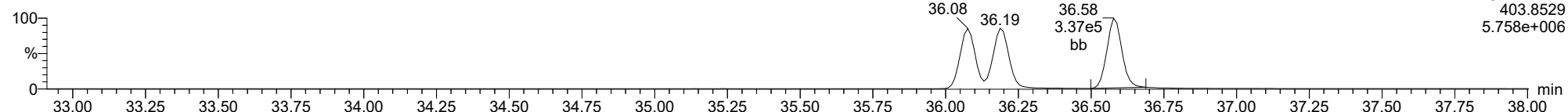
23020721



F3:Voltage SIR,EI+
401.8559
7.104e+006

13C-123789-HxCDD

23020721

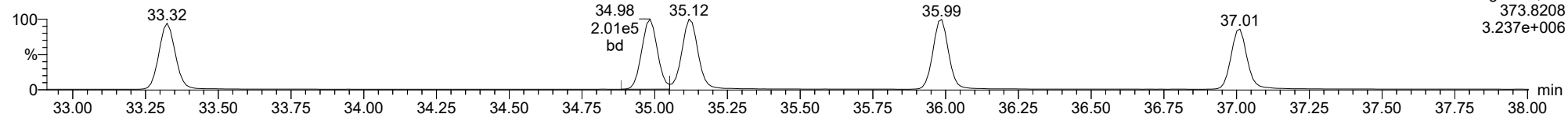


F3:Voltage SIR,EI+
403.8529
5.758e+006

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

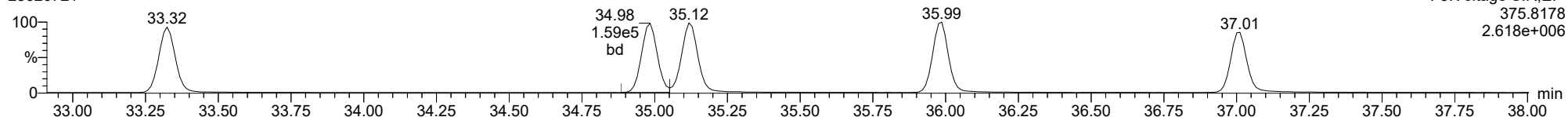
123478-HxCDF

23020721



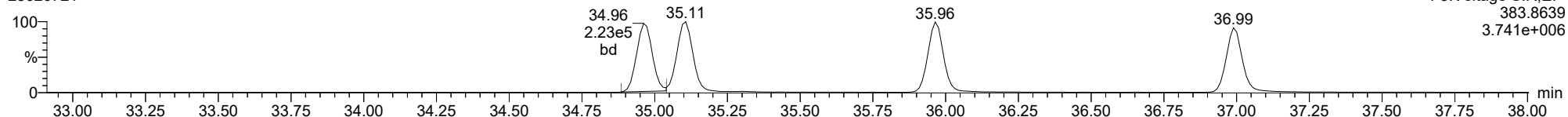
123478-HxCDF

23020721



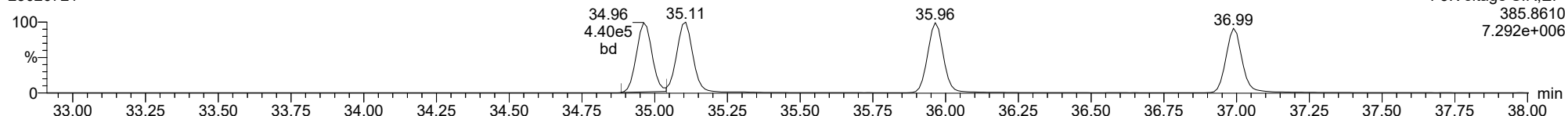
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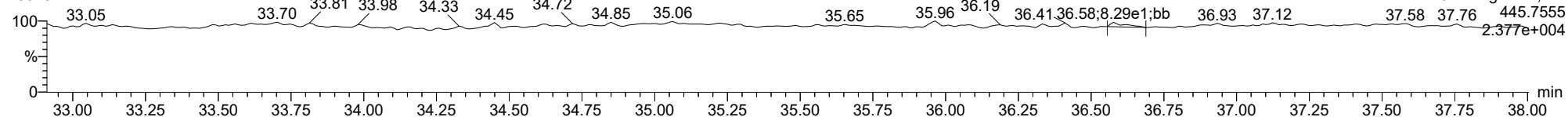
13C-123478-HxCDF

23020721



FUNCTION3 OCDPE

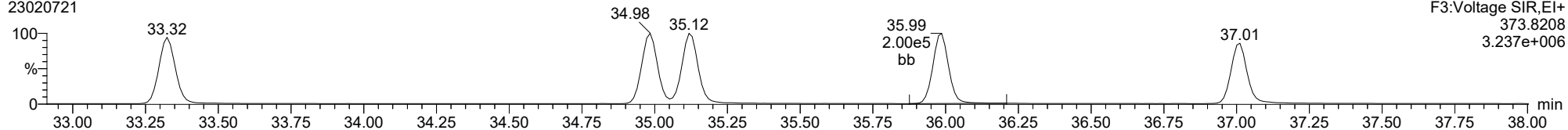
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

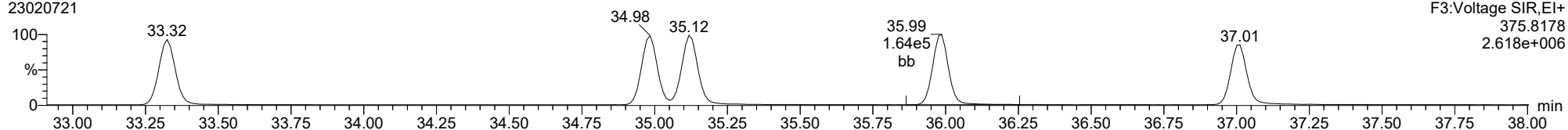
234678-HxCDF

23020721



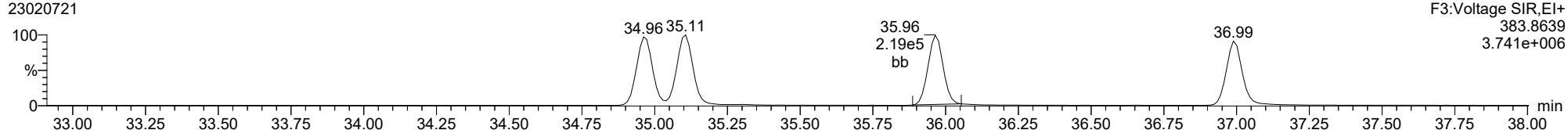
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23020721



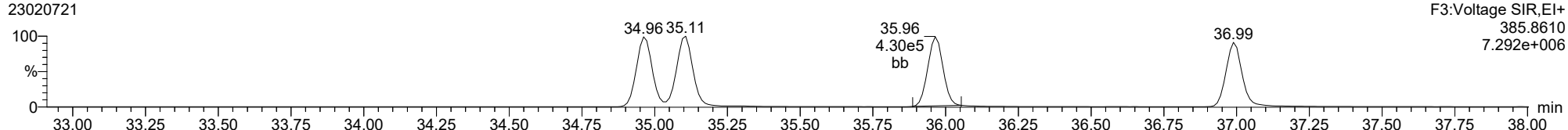
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23020721



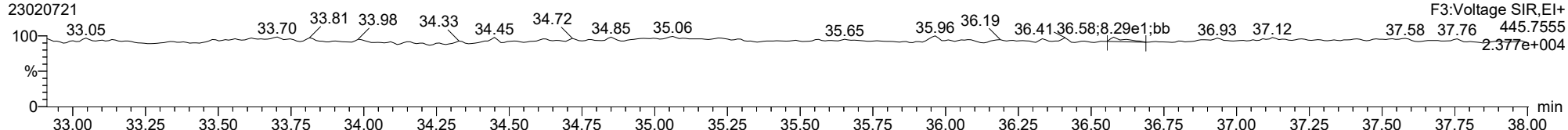
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FUNCTION3 OCDPE

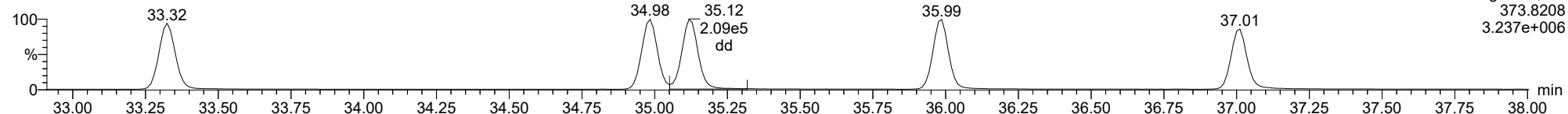
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

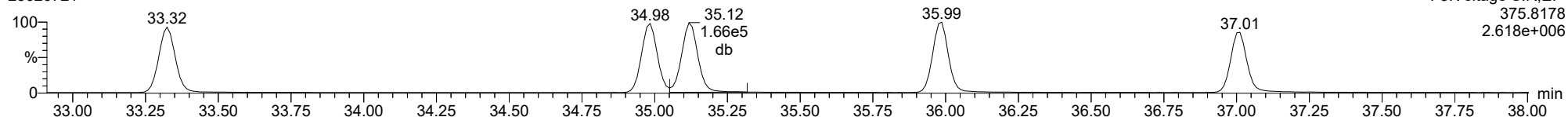
123678-HxCDF

23020721



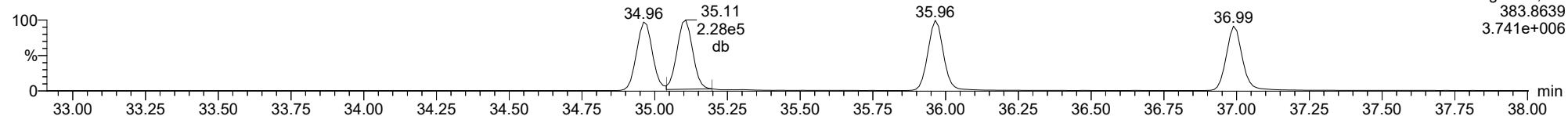
123678-HxCDF

23020721



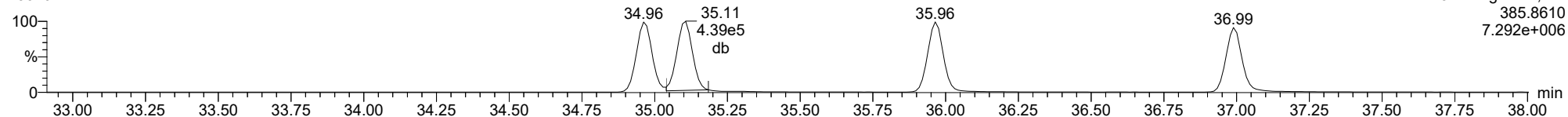
13C-123678-HxCDF

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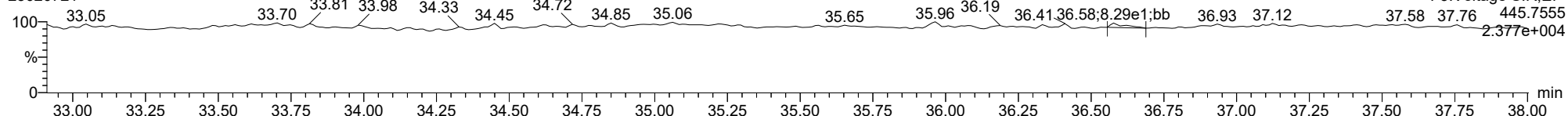
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FUNCTION3 OCDPE

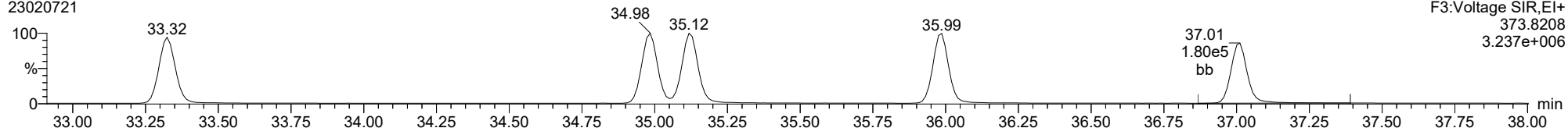
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

123789-HxCDF

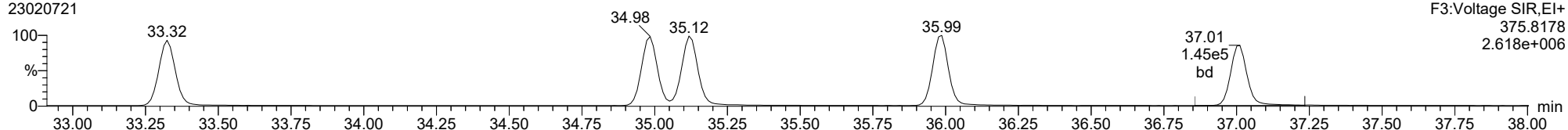
23020721



F3:Voltage SIR,EI+
373.8208
3.237e+006

123789-HxCDF

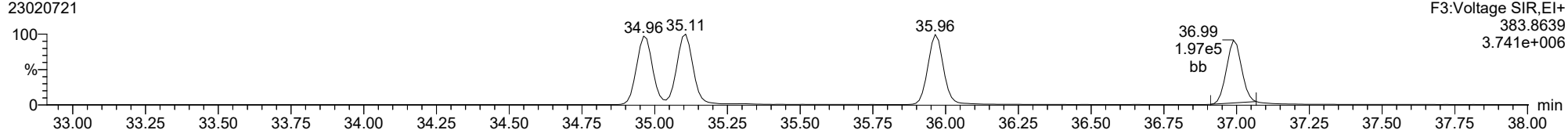
23020721



F3:Voltage SIR,EI+
375.8178
2.618e+006

13C-123789-HxCDF

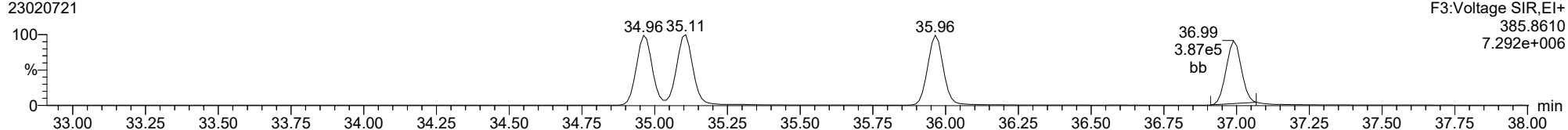
23020721



F3:Voltage SIR,EI+
383.8639
3.741e+006

13C-123789-HxCDF

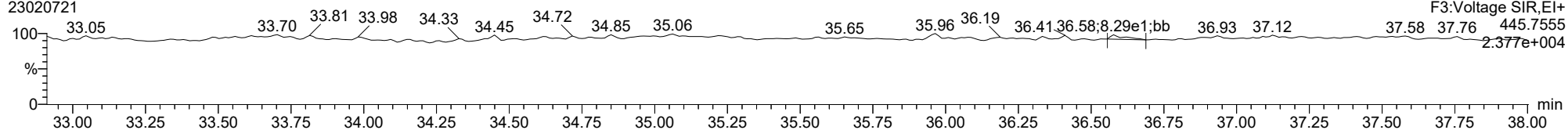
23020721



F3:Voltage SIR,EI+
385.8610
7.292e+006

FUNCTION3 OCDPE

23020721

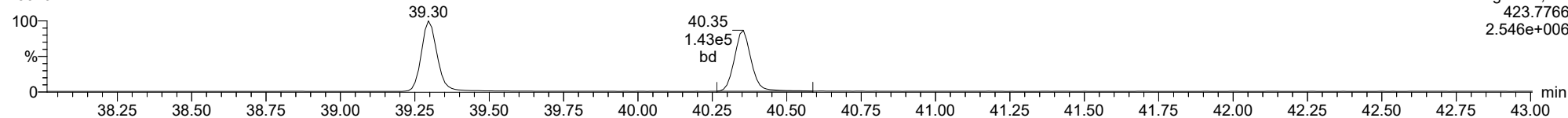


F3:Voltage SIR,EI+
445.7555
2.377e+004

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

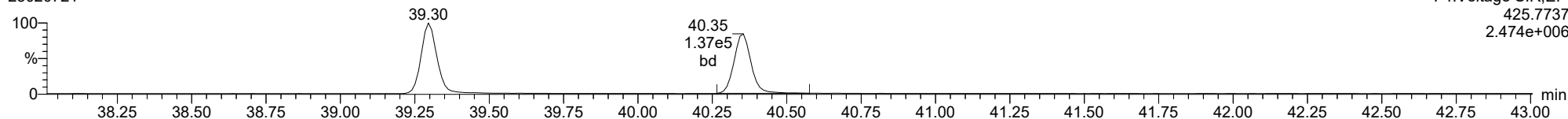
1234678-HpCDD

23020721



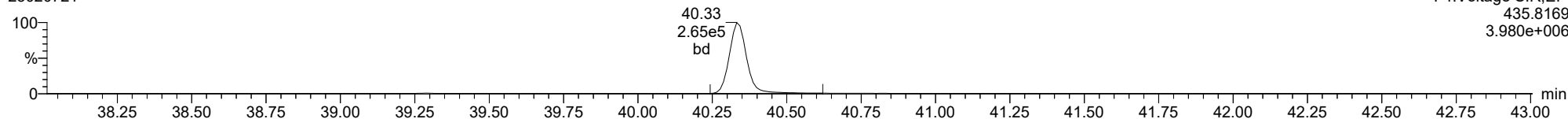
1234678-HpCDD

23020721



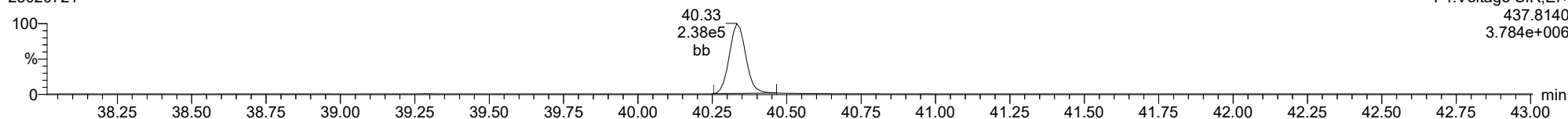
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23020721



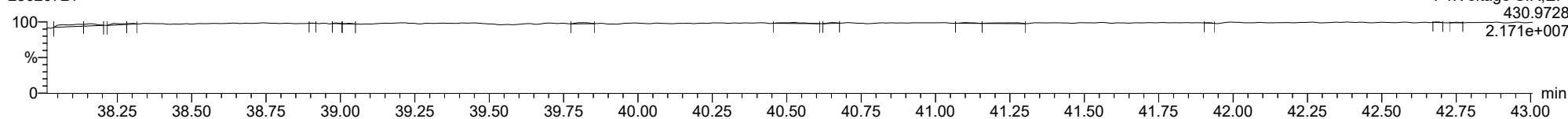
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23020721



FUNCTION4 PFK

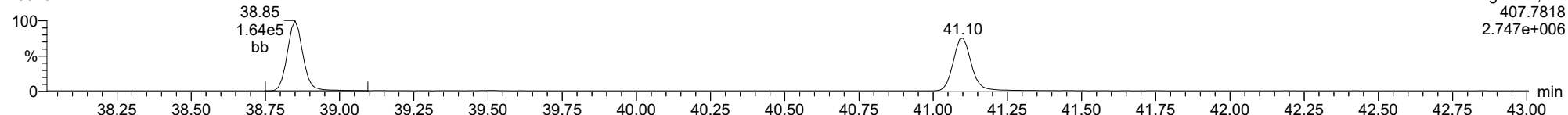
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

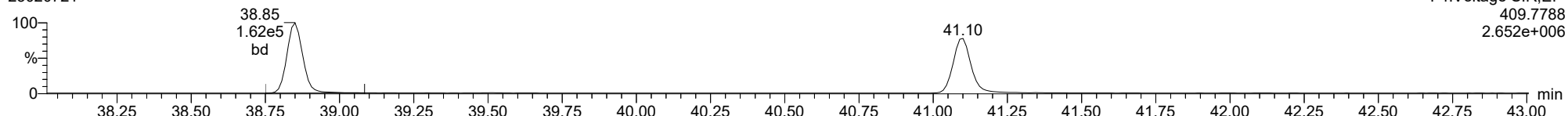
23020721



F4:Voltage SIR,EI+
407.7818
2.747e+006

1234678-HpCDF

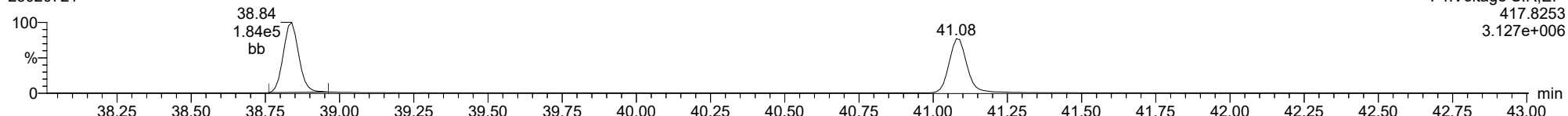
23020721



F4:Voltage SIR,EI+
409.7788
2.652e+006

13C-1234678-HpCDF

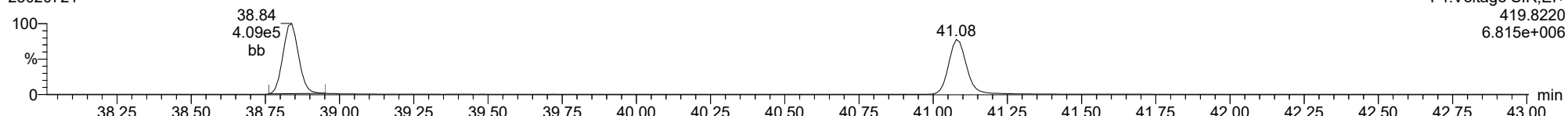
23020721



F4:Voltage SIR,EI+
417.8253
3.127e+006

13C-1234678-HpCDF

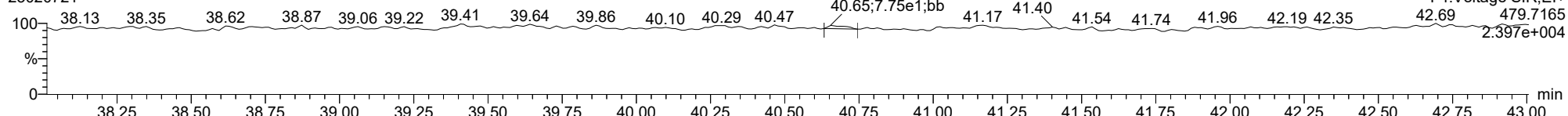
23020721



F4:Voltage SIR,EI+
419.8220
6.815e+006

FUNCTION4 NCDPE

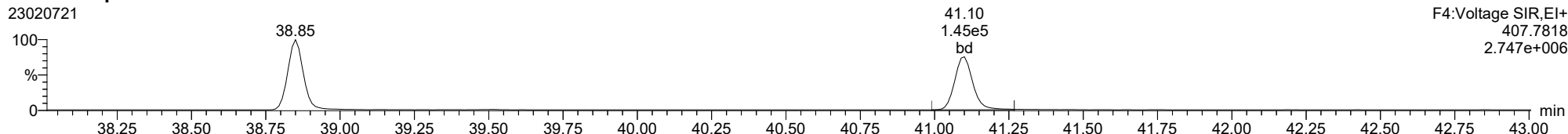
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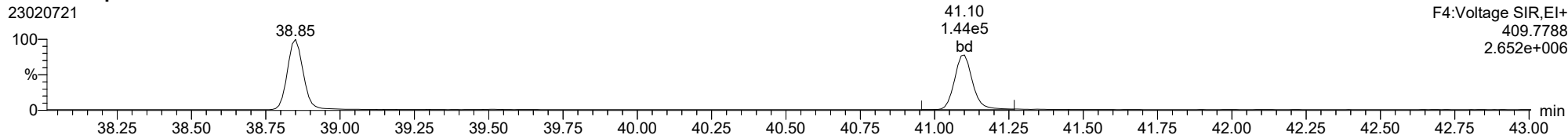
F4:Voltage SIR,EI+
479.7165
2.397e+004

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

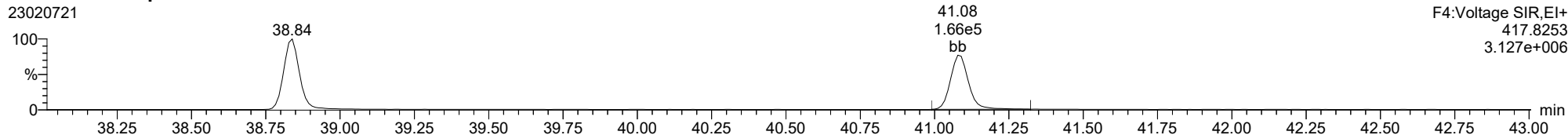
1234789-HpCDF



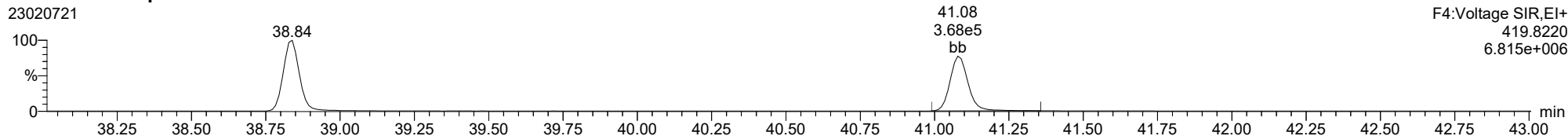
1234789-HpCDF



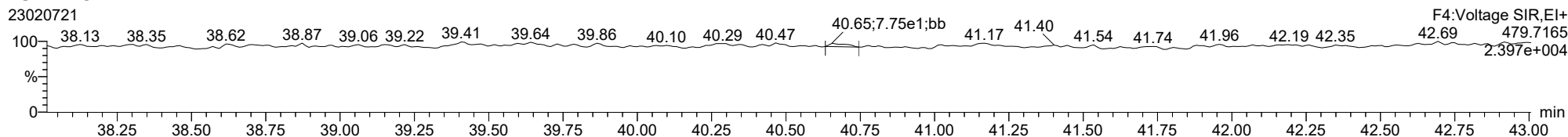
13C-1234789-HpCDF



13C-1234789-HpCDF



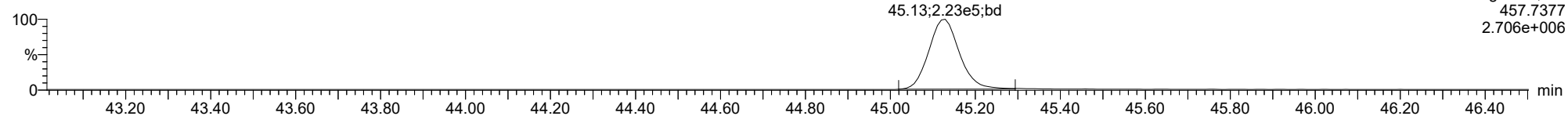
FUNCTION4 NCDPE



ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

OCDD

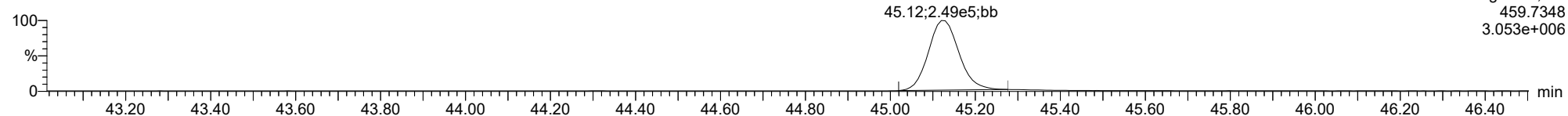
23020721



F5:Voltage SIR,EI+
459.7377
2.706e+006

OCDD

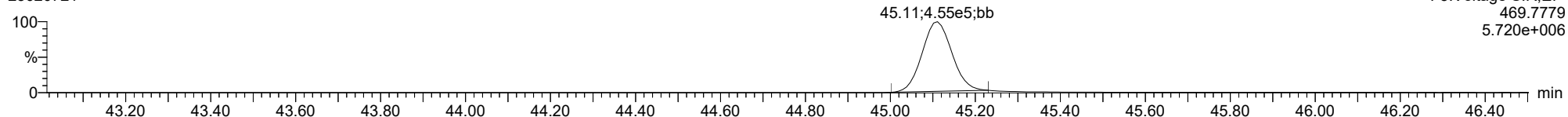
23020721



F5:Voltage SIR,EI+
459.7348
3.053e+006

13C-OCDD

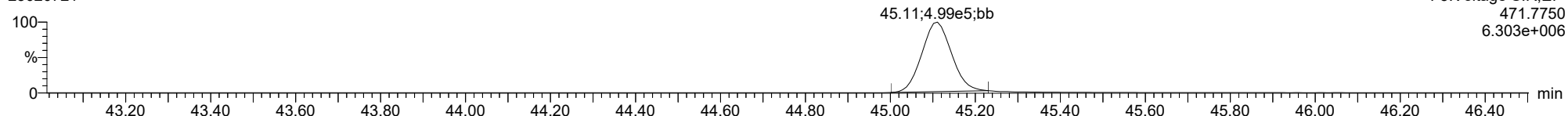
23020721



F5:Voltage SIR,EI+
469.7779
5.720e+006

13C-OCDD

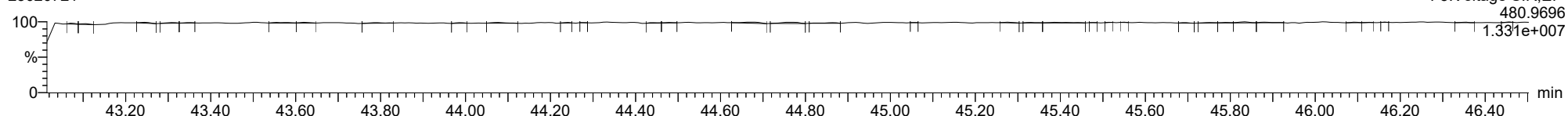
23020721



F5:Voltage SIR,EI+
471.7750
6.303e+006

FUNCTION5 PFK

23020721

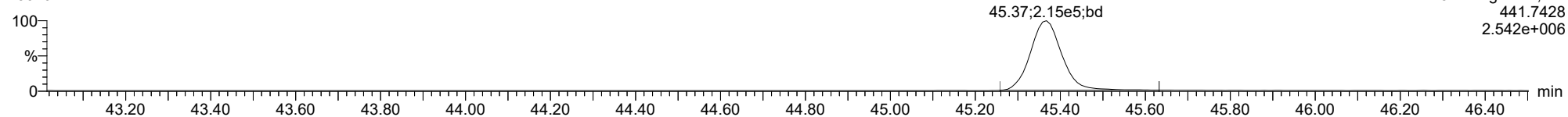


F5:Voltage SIR,EI+
480.9696
1.331e+007

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

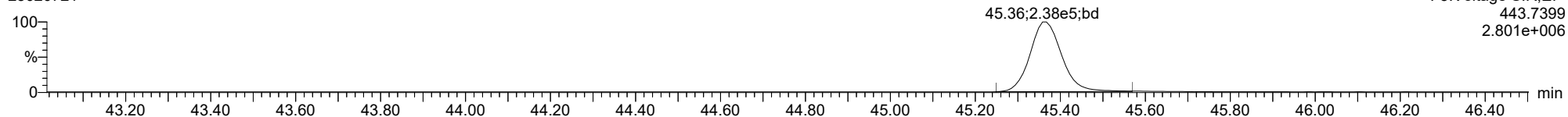
OCDF

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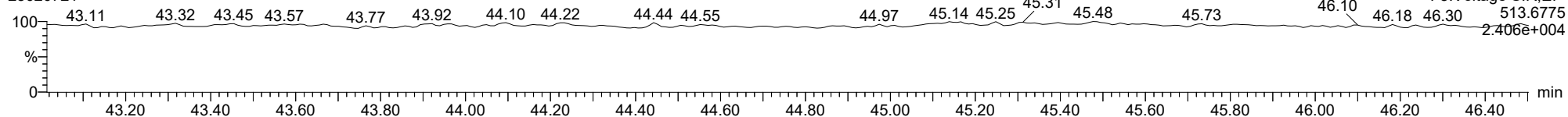
OCDF

23020721



FUNCTION5 DCDPE

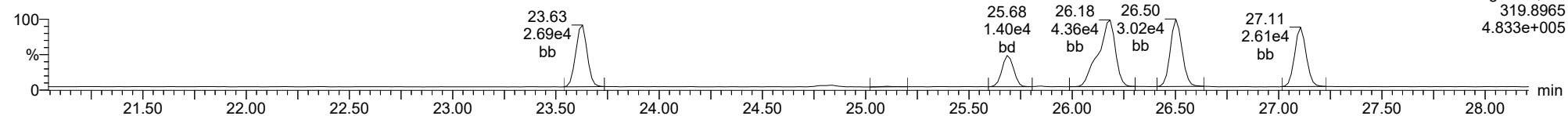
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

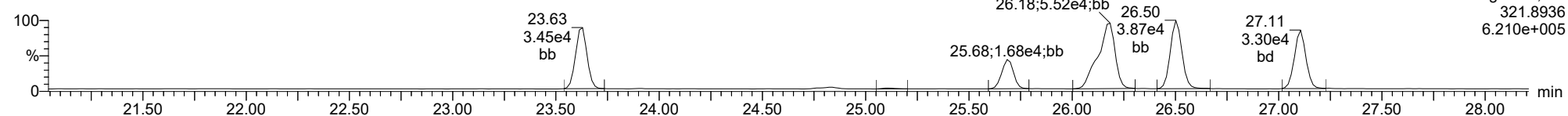
Total-tetraoxins

23020721



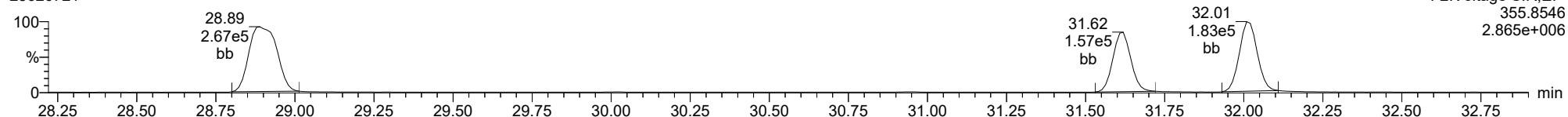
Total-tetraoxins

23020721



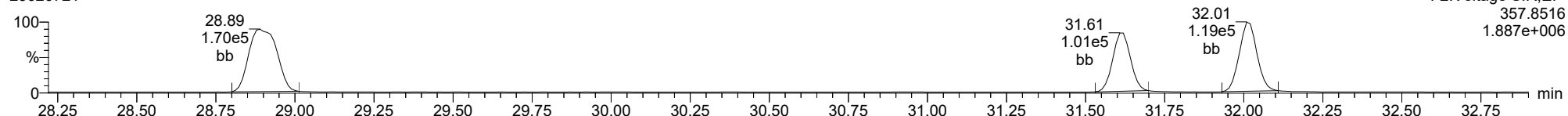
Total-pentadioxins

23020721



Total-pentadioxins

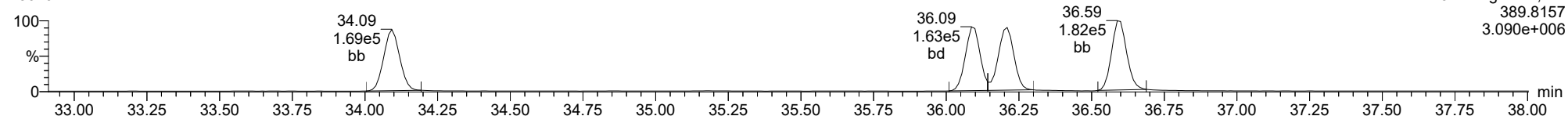
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

Total-hexadioxins

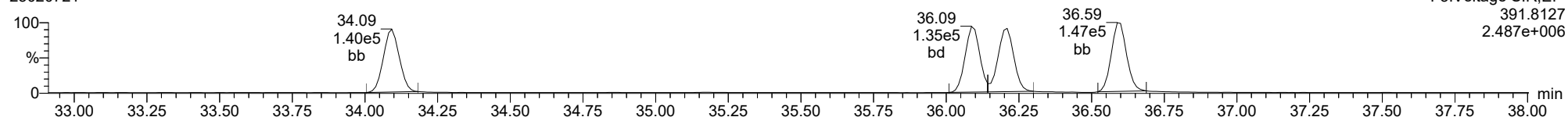
23020721



F3:Voltage SIR,EI+
389.8157
3.090e+006

Total-hexadioxins

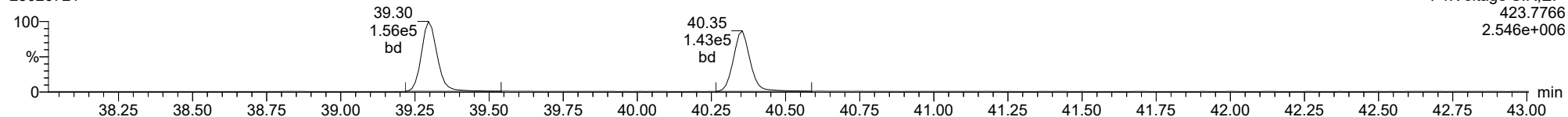
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F3:Voltage SIR,EI+
391.8127
2.487e+006

Total-heptadioxins

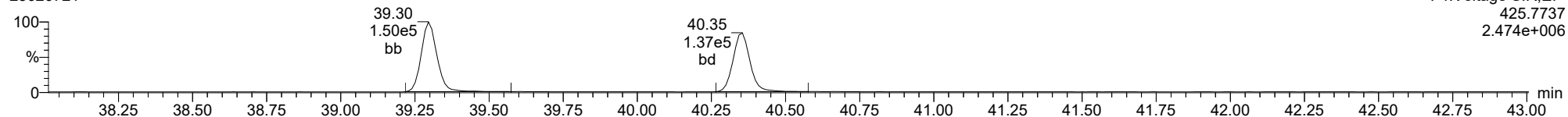
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F4:Voltage SIR,EI+
423.7766
2.546e+006

Total-heptadioxins

23020721

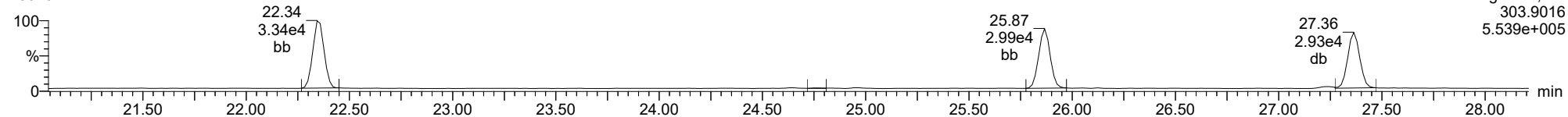


F4:Voltage SIR,EI+
425.7737
2.474e+006

ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

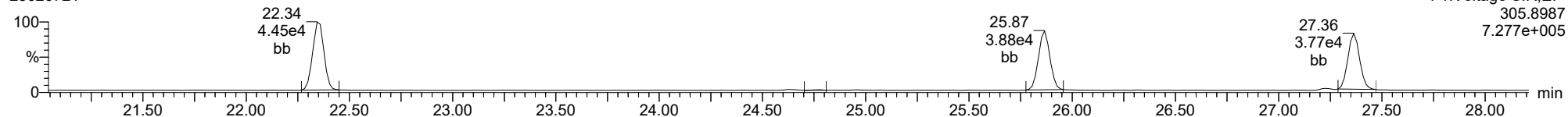
Total-tetrafurans

23020721



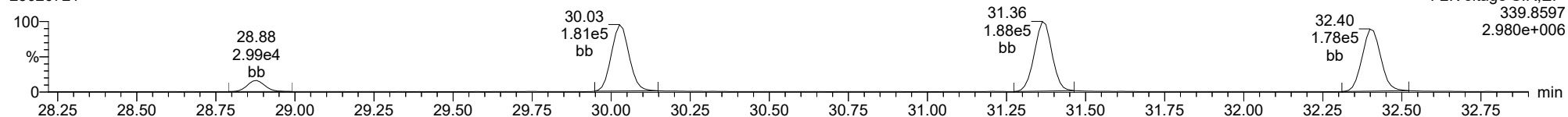
Total-tetrafurans

23020721



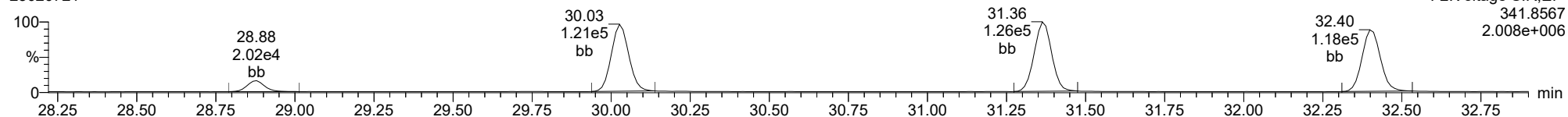
Total-pentafurans

23020721



Total-pentafurans

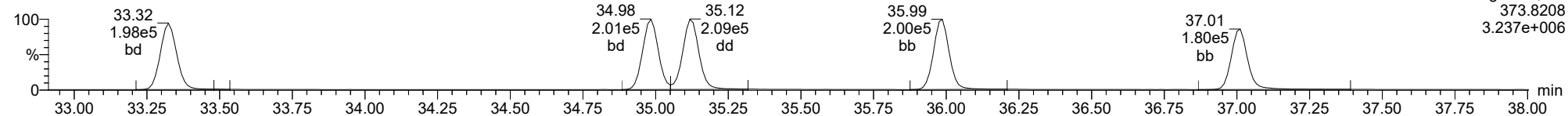
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ID: CS3T3, Name: 23020721, Date: 08-Feb-2023, Time: 01:35:31, Conditions: AUTOSPEC01, User: pk

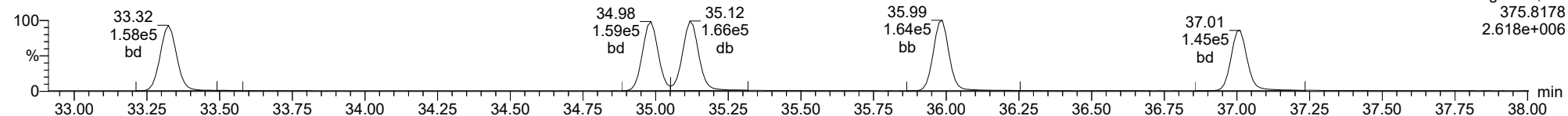
Total-hexafurans

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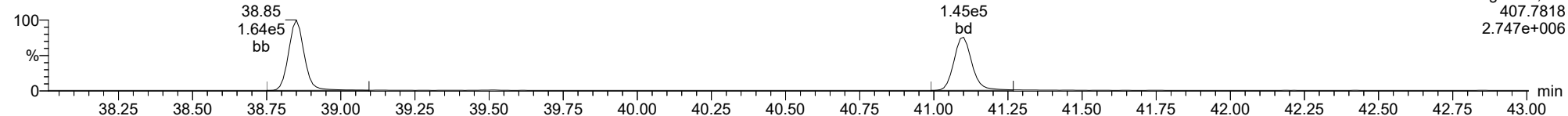
Total-hexafurans

23020721



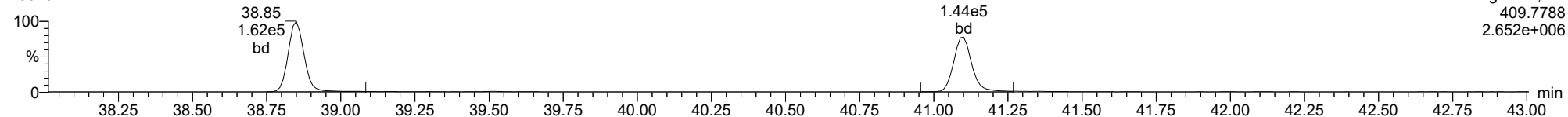
Total-heptafurans

23020721

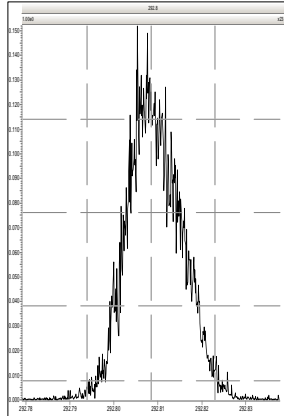


Total-heptafurans

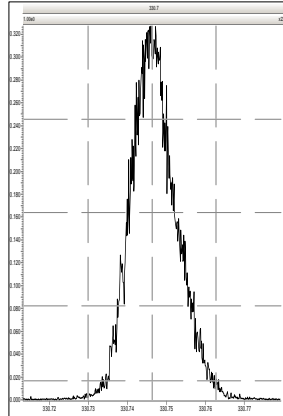
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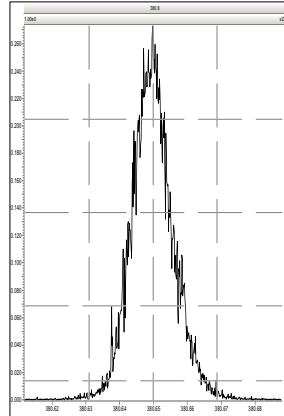
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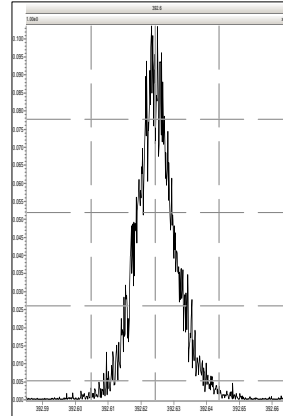
M 330.9792 R 12577



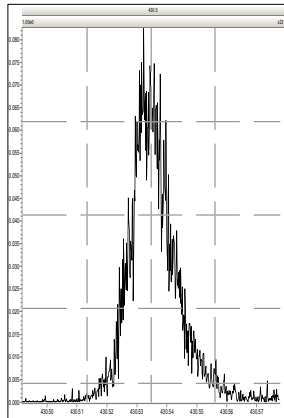
M 380.9760 R 13592



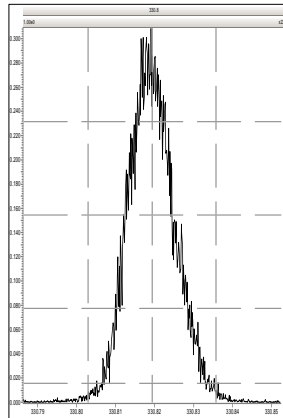
M 392.9760 R 14335



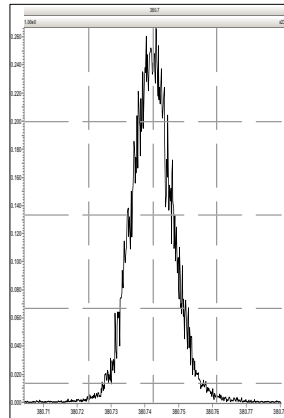
M 430.9728 R 13739



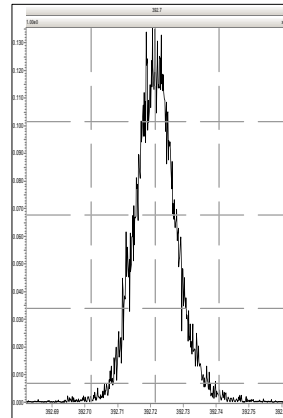
M 330.9792 R 12286



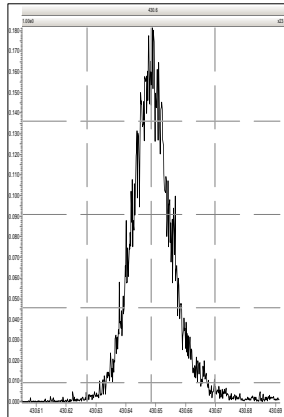
M 380.9760 R 13440



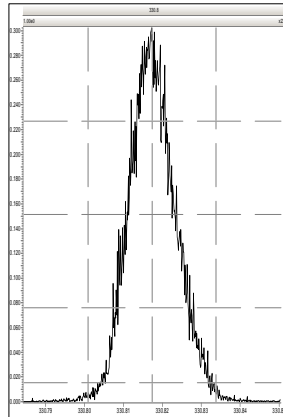
M 392.9760 R 13736



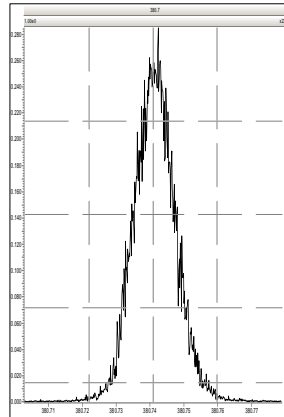
M 430.9728 R 13815



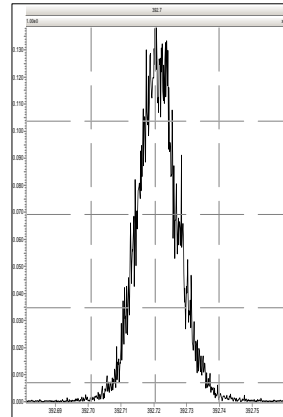
M 330.9792 R 12051



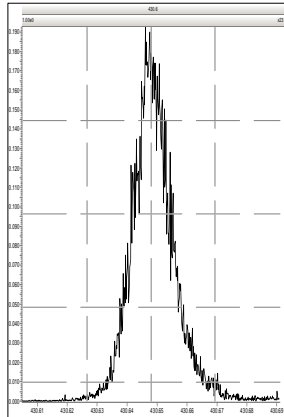
M 380.9760 R 13851



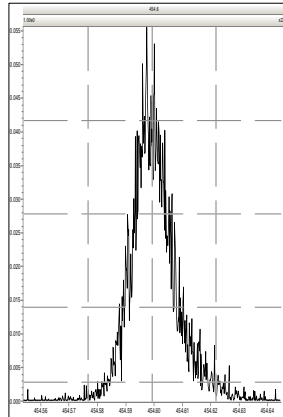
M 392.9760 R 14089



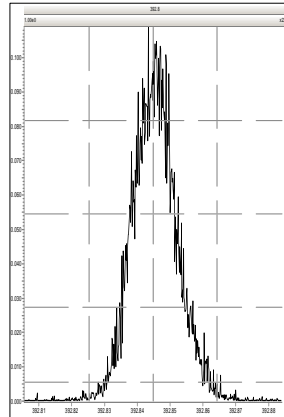
M 430.9728 R 13134



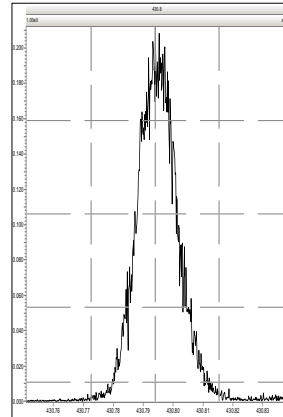
M 454.9728 R 13074



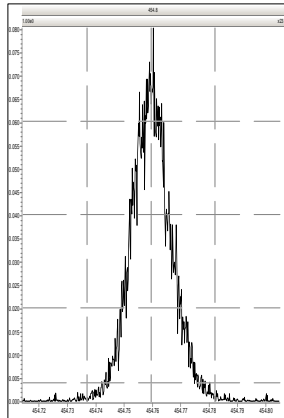
M 392.9760 R 13262



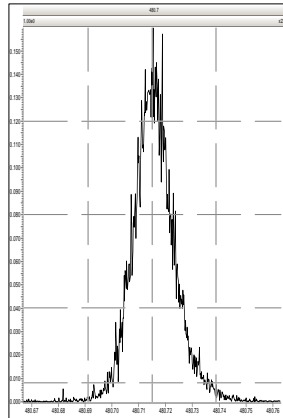
M 430.9728 R 13193



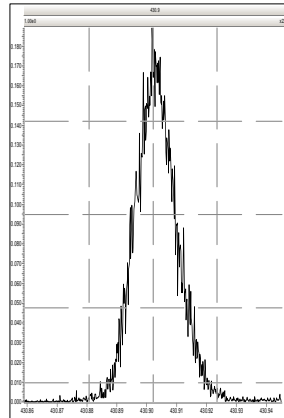
M 454.9728 R 14066



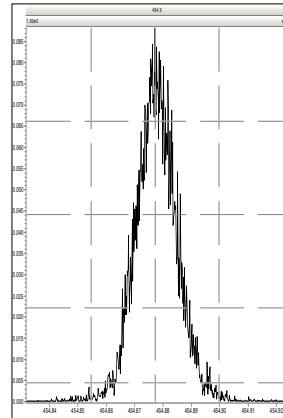
M 480.9696 R 13412



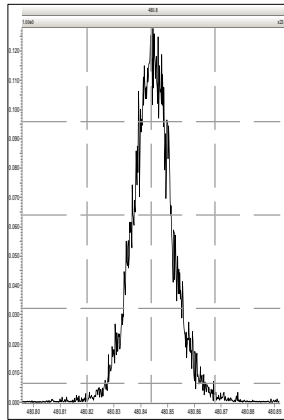
M 430.9728 R 14411



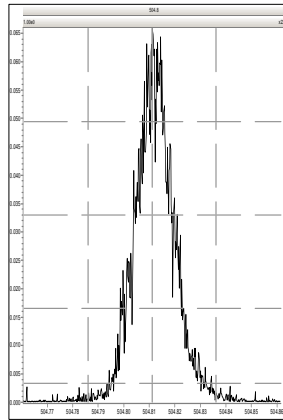
M 454.9728 R 15021



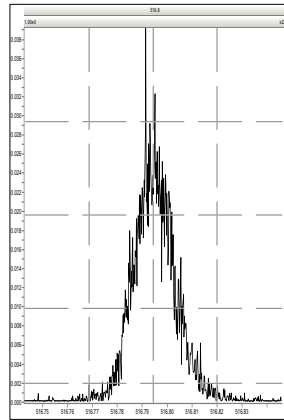
M 480.9696 R 14173



M 504.9696 R 14579



M 516.9697 R 14839

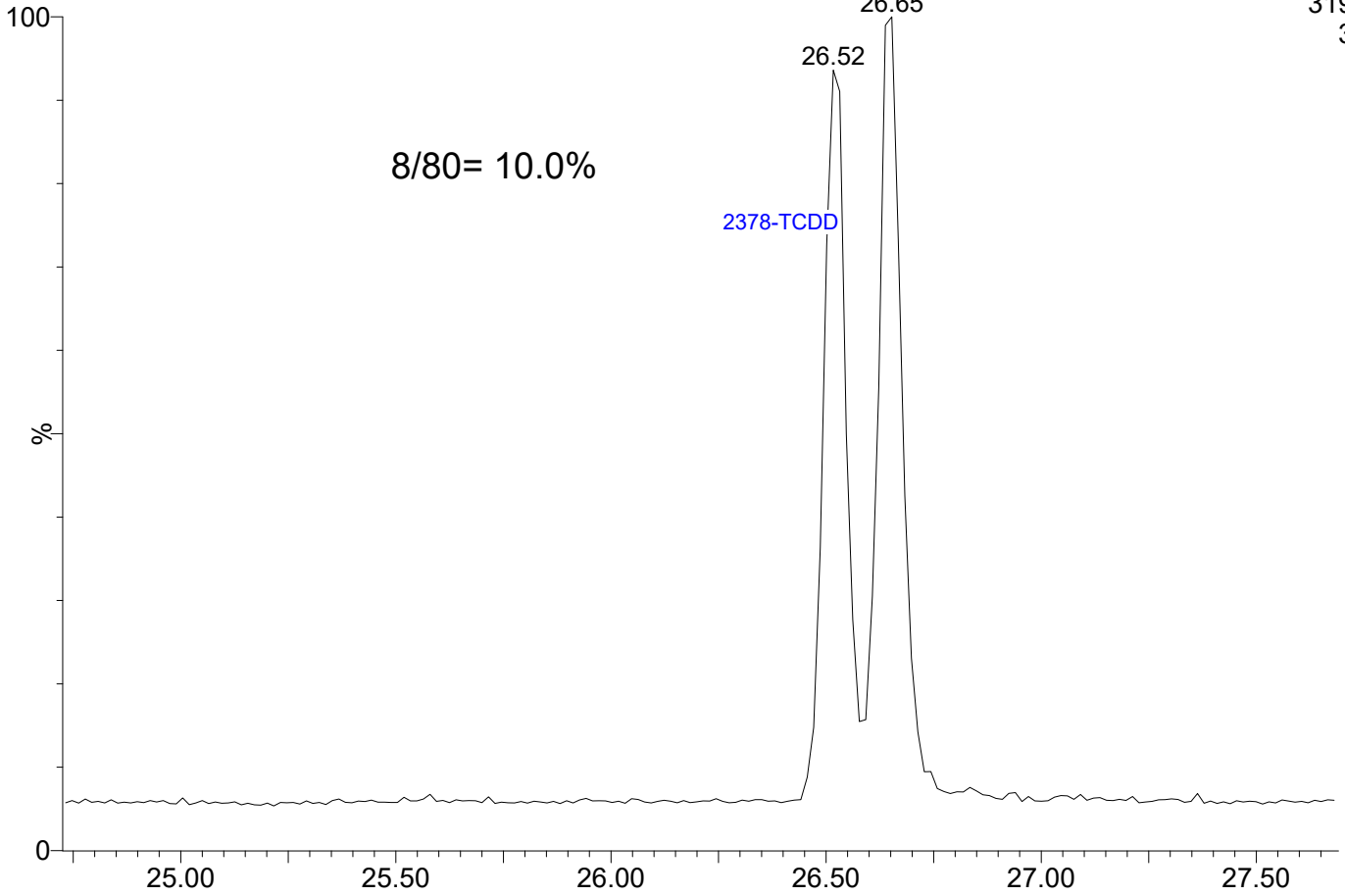


23020722

1: Voltage SIR 15 Channels EI+

319.8965

3.89e5

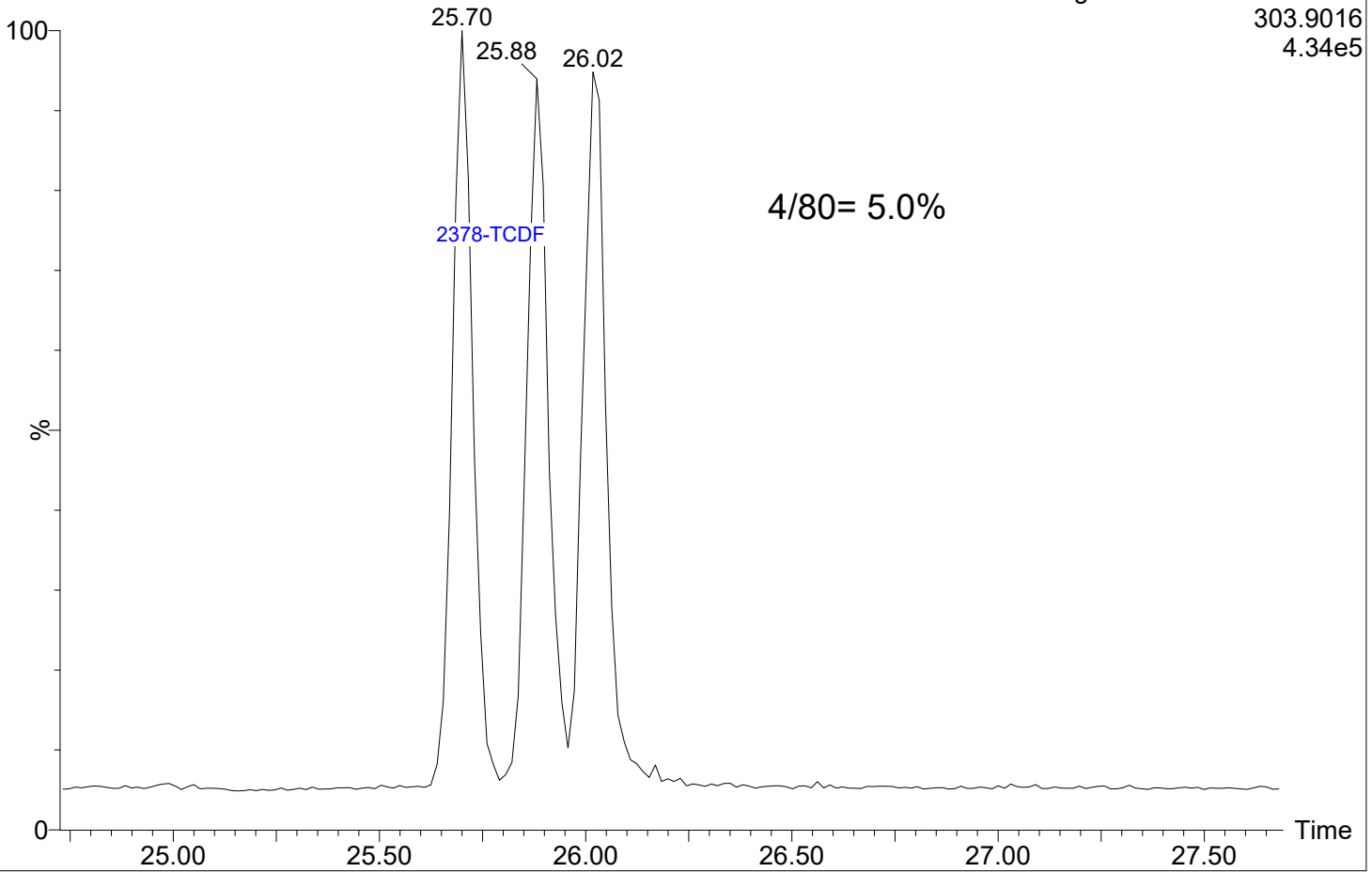


23020722

1: Voltage SIR 15 Channels EI+

303.9016

4.34e5





CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: AUTOSPEC01

Calibration: GB00010

Lab File ID: 23020733

Calibration Date: 02/01/2023

Sequence: SLB0072

Injection Date: 02/08/23

Lab Sample ID: SLB0072-CCV3

Injection Time: 11:35

Sequence Name: CS3T4

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	9.32	0.8760604	0.8163078		-6.8	+/-16
2,3,7,8-TCDD	A	10.000	9.10	1.2363600	1.1246270		-9.0	+/-22
1,2,3,7,8-PeCDF	A	50.000	45.8	0.8446540	0.7741542		-8.3	+/-18
2,3,4,7,8-PeCDF	A	50.000	46.6	0.9111780	0.8493908		-6.8	+/-18
1,2,3,7,8-PeCDD	A	50.000	48.2	1.0866850	1.0472790		-3.6	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.8	1.1816860	1.1297060		-4.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	46.1	1.2480480	1.1511800		-7.8	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	47.9	1.2288500	1.1770570		-4.2	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.9	1.1865370	1.1371680		-4.2	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	44.6	0.9869672	0.8811099		-10.7	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	45.2	1.0207220	0.9230492		-9.6	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	46.5	0.9854780	0.9166071		-7.0	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	46.2	1.2041190	1.1121100		-7.6	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.2	1.1653050	1.0996630		-5.6	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	44.2	1.2525690	1.1061560		-11.7	+/-14
OCDF	A	100.00	84.3	1.1862640	1.0001830		-15.7	+/-37
OCDD	A	100.00	92.8	1.1026670	1.0228680		-7.2	+/-21
13C12-2,3,7,8-TCDF	A	100.00	90.3	1.7680590	1.5960653		-9.7	+/-29
13C12-2,3,7,8-TCDD	A	100.00	103	1.1029470	1.1389283		3.3	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	98.3	1.5271250	1.5018211		-1.7	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	95.8	1.4662840	1.4040983		-4.2	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	102	0.9141518	0.9315333		1.9	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	85.7	1.0536610	0.9026476		-14.3	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	87.9	1.0799530	0.9488578		-12.1	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	87.1	1.0143260	0.8834615		-12.9	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	85.1	0.9279333	0.7899308		-14.9	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	101	0.9329336	0.9393407		0.7	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	98.7	0.9646272	0.9517011		-1.3	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	81.2	1.0360890	0.8411297		-18.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	84.1	0.9049372	0.7610092		-15.9	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	90.4	0.7819773	0.7069767		-9.6	+/-28
13C12-OCDD	A	200.00	171	0.7882343	0.6747299		-14.4	+/-52
37C14-2,3,7,8-TCDD	A	10.000	8.90	1.2334500	1.0978430		-11.0	

* Values outside of QC limits

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	25.851	1.001	2.595e4	3.559e4	0.876	0.729	0.770	1011	964	3.80e5	5.20e5	375.6	539.5	NO	bb	bb	9.318
12378-PeCDF	30.026	1.001	1.647e5	1.099e5	0.845	1.499	1.550	1598	1774	2.55e6	1.66e6	1594.7	937.4	NO	bb	bb	45.827
23478-PeCDF	31.363	1.001	1.673e5	1.143e5	0.911	1.463	1.550	1598	1774	2.57e6	1.73e6	1605.4	973.3	NO	bb	bb	46.609
123478-HxCDF	34.973	1.000	1.704e5	1.372e5	1.182	1.242	1.240	1781	1047	2.66e6	2.14e6	1491.4	2042.5	NO	bd	bd	47.801
234678-HxCDF	35.976	1.000	1.745e5	1.392e5	1.229	1.253	1.240	1781	1047	2.67e6	2.19e6	1497.7	2095.3	NO	bb	bd	47.893
123678-HxCDF	35.118	1.001	1.844e5	1.451e5	1.248	1.271	1.240	1781	1047	2.74e6	2.16e6	1535.7	2058.4	NO	dd	dd	46.119
123789-HxCDF	37.001	1.000	1.496e5	1.214e5	1.187	1.232	1.240	1781	1047	2.29e6	1.85e6	1285.4	1769.3	NO	bd	bd	47.920
1234678-HpCDF	38.850	1.000	1.416e5	1.406e5	1.204	1.007	1.050	1328	1605	2.28e6	2.27e6	1713.2	1413.4	NO	bd	bd	46.179
1234789-HpCDF	41.090	1.000	1.274e5	1.250e5	1.165	1.019	1.050	1328	1605	1.74e6	1.75e6	1309.1	1087.9	NO	bd	bd	47.183
OCDF	45.367	1.006	1.913e5	2.158e5	1.186	0.886	0.890	1736	1046	2.24e6	2.47e6	1289.4	2358.5	NO	bd	bd	84.314
2378-TCDD	26.502	1.001	2.619e4	3.431e4	1.236	0.763	0.770	1279	1150	3.89e5	4.88e5	303.7	424.5	NO	bb	bb	9.096
12378-PeCDD	31.608	1.001	1.393e5	9.105e4	1.087	1.531	1.550	1667	1109	2.18e6	1.43e6	1309.8	1285.1	NO	bb	bb	48.187
123478-HxCDD	36.087	1.000	1.362e5	1.135e5	0.987	1.201	1.240	1259	1362	2.29e6	1.90e6	1816.1	1397.6	NO	bd	bd	44.637
123678-HxCDD	36.199	1.000	1.438e5	1.212e5	1.021	1.187	1.240	1259	1362	2.37e6	2.01e6	1884.3	1476.1	NO	db	db	45.216
123789-HxCDD	36.589	1.011	1.437e5	1.177e5	0.985	1.221	1.240	1259	1362	2.35e6	1.96e6	1869.7	1435.9	NO	bb	bb	46.506
1234678-HpCDD	40.343	1.000	1.197e5	1.163e5	1.253	1.029	1.050	1436	1222	1.76e6	1.68e6	1224.8	1373.6	NO	bd	bd	44.156
OCDD	45.129	1.000	1.970e5	2.194e5	1.103	0.898	0.890	1128	1220	2.36e6	2.66e6	2087.8	2176.6	NO	bd	bb	92.763
13C-2378-TCDF	25.836	1.007	3.313e5	4.225e5	1.768	0.784	0.770	1988	1369	5.04e6	6.45e6	2534.5	4710.8	NO	bb	bb	90.272
13C-12378-PeCDF	30.004	1.170	4.343e5	2.751e5	1.527	1.579	1.550	1901	2096	6.46e6	4.12e6	3400.2	1967.6	NO	bd	bb	98.343
13C-23478-PeCDF	31.341	1.222	4.016e5	2.616e5	1.466	1.535	1.550	1901	2096	6.09e6	3.98e6	3204.6	1898.8	NO	bb	bb	95.759
13C-123478-HxCDF	34.962	0.956	1.837e5	3.608e5	1.054	0.509	0.510	1514	2118	2.97e6	5.80e6	1963.4	2739.4	NO	bd	bd	85.668
13C-123678-HxCDF	35.096	0.959	1.947e5	3.778e5	1.080	0.515	0.510	1514	2118	3.00e6	5.95e6	1982.4	2811.2	NO	db	db	87.861
13C-234678-HxCDF	35.965	0.983	1.804e5	3.526e5	1.014	0.512	0.510	1514	2118	2.94e6	5.87e6	1940.6	2773.3	NO	bb	bb	87.098
13C-123789-HxCDF	36.990	1.011	1.599e5	3.166e5	0.928	0.505	0.510	1514	2118	2.66e6	5.19e6	1756.4	2448.8	NO	bb	bb	85.128
13C-1234678-HpCDF	38.839	1.062	1.567e5	3.508e5	1.036	0.447	0.440	1790	1881	2.61e6	5.74e6	1460.2	3053.0	NO	bb	bb	81.183
13C-1234789-HpCDF	41.078	1.123	1.420e5	3.171e5	0.905	0.448	0.440	1790	1881	2.00e6	4.44e6	1117.8	2360.5	NO	bd	bb	84.095
13C-1234-TCDD	25.655	0.000	2.074e5	2.649e5	1.000	0.783	0.770	1577	988	3.26e6	4.16e6	2065.6	4206.9	NO	bb	bb	100.000
13C-2378-TCDD	26.471	1.032	2.373e5	3.007e5	1.103	0.789	0.770	1577	988	3.67e6	4.67e6	2323.6	4722.5	NO	bb	bb	103.262
13C-12378-PeCDD	31.586	1.231	2.713e5	1.687e5	0.914	1.608	1.550	850	966	3.93e6	2.47e6	4624.1	2559.2	NO	bd	bd	101.901
13C-123478-HxCDD	36.076	0.986	3.176e5	2.492e5	0.933	1.275	1.240	1376	1452	5.18e6	4.06e6	3763.0	2794.3	NO	bd	bd	100.687
13C-123678-HxCDD	36.188	0.989	3.196e5	2.545e5	0.965	1.256	1.240	1376	1452	5.40e6	4.29e6	3924.1	2956.1	NO	db	db	98.660
13C-1234678-HpCDD	40.332	1.103	2.263e5	2.003e5	0.782	1.130	1.050	1149	1164	3.34e6	3.03e6	2910.2	2599.9	NO	bd	bb	90.409
13C-OCDD	45.111	1.233	3.893e5	4.249e5	0.788	0.916	0.890	1594	1662	4.73e6	5.18e6	2969.4	3119.4	NO	bb	bb	171.200
13C-123789-HxCDD	36.577	0.000	3.344e5	2.689e5	1.000	1.243	1.240	1376	1452	5.46e6	4.35e6	3969.9	2998.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.486	1.032	5.185e4		1.233			1333		7.75e5		581.1			bb		8.901

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	22.344	0.865	2.874e4	3.783e4	1.064	0.760	0.770	1011	964	4.55e5	5.89e5	450.2	610.4	NO	bb	bb	8.296
1289-TCDF	27.348	1.059	2.517e4	3.285e4	0.858	0.766	0.770	1011	964	3.58e5	4.71e5	353.8	488.9	NO	db	db	8.975
13468-PECDF	27.212	0.907	2.244e5	1.469e5	1.013	1.528	1.550	721	1118	3.48e6	2.26e6	4825.2	2023.9	NO	bb	bb	51.665
12389-PECDF	32.399	1.080	1.582e5	1.060e5	0.844	1.493	1.550	1598	1774	2.29e6	1.54e6	1431.2	865.5	NO	bb	bb	44.146
123468-HXCDF	33.324	0.953	1.725e5	1.391e5	1.197	1.240	1.240	1781	1047	2.55e6	2.04e6	1430.3	1943.3	NO	bb	bb	47.789
1368-TCDD	23.614	0.892	2.431e4	3.146e4	1.084	0.773	0.770	1279	1150	3.80e5	4.94e5	297.1	429.8	NO	bb	bb	9.560
1289-TCDD	27.091	1.023	2.271e4	2.943e4	0.975	0.772	0.770	1279	1150	3.22e5	4.40e5	251.5	382.6	NO	bd	bb	9.940
12479-PECDD	28.879	0.914	2.336e5	1.521e5	1.837	1.536	1.550	1667	1109	2.33e6	1.49e6	1396.3	1345.9	NO	bb	bb	47.715
12389-PECDD	32.009	1.013	1.605e5	1.044e5	1.252	1.538	1.550	1667	1109	2.43e6	1.60e6	1457.6	1444.0	NO	bb	bb	48.067
124679-HXCDD	34.082	0.945	1.433e5	1.180e5	1.033	1.214	1.240	1259	1362	2.21e6	1.81e6	1755.1	1330.9	NO	bb	bb	44.638
1234679-HPCDD	39.296	0.974	1.318e5	1.267e5	1.286	1.040	1.050	1436	1222	2.05e6	1.97e6	1429.7	1613.1	NO	bd	bd	47.135
Total-tetrafurans			8.037e4		0.933			1011		1.20e6							26.757
Total-penta1			2.244e5					721		3.48e6							51.665
Total-pentafurans			5.162e5		0.866			1598		7.80e6							143.918
Total-hexafurans			8.514e5		1.208			1781		1.29e7							237.521
Total-heptafurans			2.692e5		1.185			1328		4.02e6							93.434
Total-Furans			2.133e6		1.067			1011		3.16e7							637.609
Total-tetradoxins			1.252e5		1.099			1279		1.69e6							48.306
Total-pentadoxins			5.334e5		1.392			1667		6.94e6							143.969
Total-hexadoxins			5.670e5		1.007			1259		9.22e6							180.996
Total-heptadoxins			2.515e5		1.269			1436		3.81e6							91.291
Total-Dioxins			1.674e6		1.165			1279		2.40e7							557.325
Total-TEQ			3.807e6					1279		5.56e7							1194.935
FUNCTION1 PFK			0.000e0					793780		0.00e0							
FUNCTION2 PFK			2.735e5					366736		9.42e6							0.000
FUNCTION3 PFK			2.458e5					325510		6.97e6							0.000
FUNCTION4 PFK			0.000e0					196590		0.00e0							
FUNCTION5 PFK			7.096e4					116348		2.59e6							
FUNCTION1 HXCD...			4.601e2					668		5.59e3							0.000
FUNCTION1 HPCD...			4.907e2					687		7.15e3							0.000
FUNCTION2 HPCD...			5.211e2					937		8.72e3							0.000
FUNCTION3 OCDPE			7.760e1					700		1.58e3							0.000
FUNCTION4 NCDPE			1.116e2					686		1.57e3							0.000
FUNCTION5 DCDPE			7.691e1					539		1.55e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D2.qld

Last Altered: Wednesday, February 08, 2023 13:13:24 Pacific Standard Time

Printed: Wednesday, February 08, 2023 13:18:03 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10**Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40****ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	27.35	2.517e4	3.285e4	0.858	0.77	0.77	353.8	YES	NO	db	db	8.975
2	Total-tetrafurans	27.21	5.045e2	6.815e2	0.933	0.74	0.77	7.4	YES	NO	bd	bd	0.169
3	2378-TCDF	25.85	2.595e4	3.559e4	0.876	0.73	0.77	375.6	YES	NO	bb	bb	9.318
4	1368-TCDF	22.34	2.874e4	3.783e4	1.064	0.76	0.77	450.2	YES	NO	bb	bb	8.296

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.21	2.244e5	1.469e5	1.013	1.53	1.55	4825.2	YES	NO	bb	bb	51.665

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.40	1.582e5	1.060e5	0.844	1.49	1.55	1431.2	YES	NO	bb	bb	44.146
2	23478-PeCDF	31.36	1.673e5	1.143e5	0.911	1.46	1.55	1605.4	YES	NO	bb	bb	46.609
3	12378-PeCDF	30.03	1.647e5	1.099e5	0.845	1.50	1.55	1594.7	YES	NO	bb	bb	45.827
4	Total-pentafurans	28.87	2.598e4	1.765e4	0.866	1.47	1.55	247.2	YES	NO	bb	bb	7.336

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.98	1.745e5	1.392e5	1.229	1.25	1.24	1497.7	YES	NO	bb	bd	47.893
2	123678-HxCDF	35.12	1.844e5	1.451e5	1.248	1.27	1.24	1535.7	YES	NO	dd	dd	46.119
3	123478-HxCDF	34.97	1.704e5	1.372e5	1.182	1.24	1.24	1491.4	YES	NO	bd	bd	47.801
4	123468-HxCDF	33.32	1.725e5	1.391e5	1.197	1.24	1.24	1430.3	YES	NO	bb	bb	47.789
5	123789-HxCDF	37.00	1.496e5	1.214e5	1.187	1.23	1.24	1285.4	YES	NO	bd	bd	47.920

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.09	1.274e5	1.250e5	1.165	1.02	1.05	1309.1	YES	NO	bd	bd	47.183
2	Total-heptafurans	39.14	2.026e2	2.062e2	1.185	0.98	1.05	4.2	YES	NO	db	db	0.071
3	1234678-HpCDF	38.85	1.416e5	1.406e5	1.204	1.01	1.05	1713.2	YES	NO	bd	bd	46.179

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D2.qld

Last Altered: Wednesday, February 08, 2023 13:13:24 Pacific Standard Time

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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	27.35	2.517e4	3.285e4	0.858	0.77	0.77	353.8	YES	NO	db	db	8.975
2	Total-tetrafurans	27.21	5.045e2	6.815e2	0.933	0.74	0.77	7.4	YES	NO	bd	bd	0.169
3	2378-TCDF	25.85	2.595e4	3.559e4	0.876	0.73	0.77	375.6	YES	NO	bb	bb	9.318
4	1368-TCDF	22.34	2.874e4	3.783e4	1.064	0.76	0.77	450.2	YES	NO	bb	bb	8.296
5	12389-PECDF	32.40	1.582e5	1.060e5	0.844	1.49	1.55	1431.2	YES	NO	bb	bb	44.146
6	23478-PeCDF	31.36	1.673e5	1.143e5	0.911	1.46	1.55	1605.4	YES	NO	bb	bb	46.609
7	12378-PeCDF	30.03	1.647e5	1.099e5	0.845	1.50	1.55	1594.7	YES	NO	bb	bb	45.827
8	Total-pentafurans	28.87	2.598e4	1.765e4	0.866	1.47	1.55	247.2	YES	NO	bb	bb	7.336
9	234678-HxCDF	35.98	1.745e5	1.392e5	1.229	1.25	1.24	1497.7	YES	NO	bb	bd	47.893
10	123678-HxCDF	35.12	1.844e5	1.451e5	1.248	1.27	1.24	1535.7	YES	NO	dd	dd	46.119
11	123478-HxCDF	34.97	1.704e5	1.372e5	1.182	1.24	1.24	1491.4	YES	NO	bd	bd	47.801
12	123468-HXCDF	33.32	1.725e5	1.391e5	1.197	1.24	1.24	1430.3	YES	NO	bb	bb	47.789
13	123789-HxCDF	37.00	1.496e5	1.214e5	1.187	1.23	1.24	1285.4	YES	NO	bd	bd	47.920
14	1234789-HpCDF	41.09	1.274e5	1.250e5	1.165	1.02	1.05	1309.1	YES	NO	bd	bd	47.183
15	Total-heptafurans	39.14	2.026e2	2.062e2	1.185	0.98	1.05	4.2	YES	NO	db	db	0.071
16	1234678-HpCDF	38.85	1.416e5	1.406e5	1.204	1.01	1.05	1713.2	YES	NO	bd	bd	46.179
17	OCDF	45.37	1.913e5	2.158e5	1.186	0.89	0.89	1289.4	YES	NO	bd	bd	84.314
18	13468-PECDF	27.21	2.244e5	1.469e5	1.013	1.53	1.55	4825.2	YES	NO	bb	bb	51.665

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	27.09	2.271e4	2.943e4	0.975	0.77	0.77	251.5	YES	NO	bd	bb	9.940
2	2378-TCDD	26.50	2.619e4	3.431e4	1.236	0.76	0.77	303.7	YES	NO	bb	bb	9.096
3	Total-tetradioxins	26.17	3.941e4	4.898e4	1.099	0.80	0.77	317.9	YES	NO	bb	bb	14.957
4	Total-tetradioxins	25.67	1.214e4	1.508e4	1.099	0.80	0.77	147.2	YES	NO	bd	bb	4.606
5	Total-tetradioxins	25.10	4.082e2	4.654e2	1.099	0.88	0.77	4.6	YES	NO	bb	bb	0.148
6	1368-TCDD	23.61	2.431e4	3.146e4	1.084	0.77	0.77	297.1	YES	NO	bb	bb	9.560

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	32.01	1.605e5	1.044e5	1.252	1.54	1.55	1457.6	YES	NO	bb	bb	48.067
2	12378-PeCDD	31.61	1.393e5	9.105e4	1.087	1.53	1.55	1309.8	YES	NO	bb	bb	48.187
3	12479-PECDD	28.88	2.336e5	1.521e5	1.837	1.54	1.55	1396.3	YES	NO	bb	bb	47.715

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	36.59	1.437e5	1.177e5	0.985	1.22	1.24	1869.7	YES	NO	bb	bb	46.506
2	123678-HxCDD	36.20	1.438e5	1.212e5	1.021	1.19	1.24	1884.3	YES	NO	db	db	45.216
3	123478-HxCDD	36.09	1.362e5	1.135e5	0.987	1.20	1.24	1816.1	YES	NO	bd	bd	44.637
4	124679-HXCDD	34.08	1.433e5	1.180e5	1.033	1.21	1.24	1755.1	YES	NO	bb	bb	44.638

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.30	1.318e5	1.267e5	1.286	1.04	1.05	1429.7	YES	NO	bd	bd	47.135
2	1234678-HpCDD	40.34	1.197e5	1.163e5	1.253	1.03	1.05	1224.8	YES	NO	bd	bd	44.156

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	27.09	2.271e4	2.943e4	0.975	0.77	0.77	251.5	YES	NO	bd	bb	9.940
2	2378-TCDD	26.50	2.619e4	3.431e4	1.236	0.76	0.77	303.7	YES	NO	bb	bb	9.096
3	Total-tetradoxins	26.17	3.941e4	4.898e4	1.099	0.80	0.77	317.9	YES	NO	bb	bb	14.957
4	Total-tetradoxins	25.67	1.214e4	1.508e4	1.099	0.80	0.77	147.2	YES	NO	bd	bb	4.606
5	Total-tetradoxins	25.10	4.082e2	4.654e2	1.099	0.88	0.77	4.6	YES	NO	bb	bb	0.148
6	1368-TCDD	23.61	2.431e4	3.146e4	1.084	0.77	0.77	297.1	YES	NO	bb	bb	9.560
7	12389-PECDD	32.01	1.605e5	1.044e5	1.252	1.54	1.55	1457.6	YES	NO	bb	bb	48.067
8	12378-PeCDD	31.61	1.393e5	9.105e4	1.087	1.53	1.55	1309.8	YES	NO	bb	bb	48.187
9	12479-PECDD	28.88	2.336e5	1.521e5	1.837	1.54	1.55	1396.3	YES	NO	bb	bb	47.715
10	123789-HxCDD	36.59	1.437e5	1.177e5	0.985	1.22	1.24	1869.7	YES	NO	bb	bb	46.506
11	123678-HxCDD	36.20	1.438e5	1.212e5	1.021	1.19	1.24	1884.3	YES	NO	db	db	45.216
12	123478-HxCDD	36.09	1.362e5	1.135e5	0.987	1.20	1.24	1816.1	YES	NO	bd	bd	44.637
13	124679-HXCDD	34.08	1.433e5	1.180e5	1.033	1.21	1.24	1755.1	YES	NO	bb	bb	44.638
14	1234679-HPCDD	39.30	1.318e5	1.267e5	1.286	1.04	1.05	1429.7	YES	NO	bd	bd	47.135
15	OCDD	45.13	1.970e5	2.194e5	1.103	0.90	0.89	2087.8	YES	NO	bd	bb	92.763
16	1234678-HpCDD	40.34	1.197e5	1.163e5	1.253	1.03	1.05	1224.8	YES	NO	bd	bd	44.156

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	27.35	2.517e4	3.285e4	0.858	0.77	0.77	353.8	YES	NO	db	db	8.975
2	Total-tetrafurans	27.21	5.045e2	6.815e2	0.933	0.74	0.77	7.4	YES	NO	bd	bd	0.169
3	2378-TCDF	25.85	2.595e4	3.559e4	0.876	0.73	0.77	375.6	YES	NO	bb	bb	9.318
4	1368-TCDF	22.34	2.874e4	3.783e4	1.064	0.76	0.77	450.2	YES	NO	bb	bb	8.296
5	12389-PECDF	32.40	1.582e5	1.060e5	0.844	1.49	1.55	1431.2	YES	NO	bb	bb	44.146
6	23478-PeCDF	31.36	1.673e5	1.143e5	0.911	1.46	1.55	1605.4	YES	NO	bb	bb	46.609
7	12378-PeCDF	30.03	1.647e5	1.099e5	0.845	1.50	1.55	1594.7	YES	NO	bb	bb	45.827
8	Total-pentafurans	28.87	2.598e4	1.765e4	0.866	1.47	1.55	247.2	YES	NO	bb	bb	7.336
9	234678-HxCDF	35.98	1.745e5	1.392e5	1.229	1.25	1.24	1497.7	YES	NO	bb	bd	47.893
10	123678-HxCDF	35.12	1.844e5	1.451e5	1.248	1.27	1.24	1535.7	YES	NO	dd	dd	46.119
11	123478-HxCDF	34.97	1.704e5	1.372e5	1.182	1.24	1.24	1491.4	YES	NO	bd	bd	47.801
12	123468-HXCDF	33.32	1.725e5	1.391e5	1.197	1.24	1.24	1430.3	YES	NO	bb	bb	47.789
13	123789-HxCDF	37.00	1.496e5	1.214e5	1.187	1.23	1.24	1285.4	YES	NO	bd	bd	47.920
14	1234789-HpCDF	41.09	1.274e5	1.250e5	1.165	1.02	1.05	1309.1	YES	NO	bd	bd	47.183
15	Total-heptafurans	39.14	2.026e2	2.062e2	1.185	0.98	1.05	4.2	YES	NO	db	db	0.071
16	1234678-HpCDF	38.85	1.416e5	1.406e5	1.204	1.01	1.05	1713.2	YES	NO	bd	bd	46.179
17	OCDF	45.37	1.913e5	2.158e5	1.186	0.89	0.89	1289.4	YES	NO	bd	bd	84.314
18	13468-PECDF	27.21	2.244e5	1.469e5	1.013	1.53	1.55	4825.2	YES	NO	bb	bb	51.665
19	1289-TCDD	27.09	2.271e4	2.943e4	0.975	0.77	0.77	251.5	YES	NO	bd	bb	9.940
20	2378-TCDD	26.50	2.619e4	3.431e4	1.236	0.76	0.77	303.7	YES	NO	bb	bb	9.096
21	Total-tetradioxins	26.17	3.941e4	4.898e4	1.099	0.80	0.77	317.9	YES	NO	bb	bb	14.957
22	Total-tetradioxins	25.67	1.214e4	1.508e4	1.099	0.80	0.77	147.2	YES	NO	bd	bb	4.606
23	Total-tetradioxins	25.10	4.082e2	4.654e2	1.099	0.88	0.77	4.6	YES	NO	bb	bb	0.148
24	1368-TCDD	23.61	2.431e4	3.146e4	1.084	0.77	0.77	297.1	YES	NO	bb	bb	9.560
25	12389-PECDD	32.01	1.605e5	1.044e5	1.252	1.54	1.55	1457.6	YES	NO	bb	bb	48.067
26	12378-PeCDD	31.61	1.393e5	9.105e4	1.087	1.53	1.55	1309.8	YES	NO	bb	bb	48.187
27	12479-PECDD	28.88	2.336e5	1.521e5	1.837	1.54	1.55	1396.3	YES	NO	bb	bb	47.715
28	123789-HxCDD	36.59	1.437e5	1.177e5	0.985	1.22	1.24	1869.7	YES	NO	bb	bb	46.506
29	123678-HxCDD	36.20	1.438e5	1.212e5	1.021	1.19	1.24	1884.3	YES	NO	db	db	45.216
30	123478-HxCDD	36.09	1.362e5	1.135e5	0.987	1.20	1.24	1816.1	YES	NO	bd	bd	44.637
31	124679-HXCDD	34.08	1.433e5	1.180e5	1.033	1.21	1.24	1755.1	YES	NO	bb	bb	44.638
32	1234679-HPCDD	39.30	1.318e5	1.267e5	1.286	1.04	1.05	1429.7	YES	NO	bd	bd	47.135
33	OCDD	45.13	1.970e5	2.194e5	1.103	0.90	0.89	2087.8	YES	NO	bd	bb	92.763
34	1234678-HpCDD	40.34	1.197e5	1.163e5	1.253	1.03	1.05	1224.8	YES	NO	bd	bd	44.156

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	29.03	5.657e3					1.0	NO		db		0.000
2	FUNCTION2 PFK	29.00	1.642e4					1.7	NO		dd		0.000
3	FUNCTION2 PFK	28.97	2.914e3					0.6	NO		bd		0.000
4	FUNCTION2 PFK	28.76	5.101e3					0.9	NO		bb		0.000
5	FUNCTION2 PFK	28.40	9.036e3					0.8	NO		bb		0.000
6	FUNCTION2 PFK	28.32	1.892e4					1.8	NO		bb		0.000
7	FUNCTION2 PFK	32.19	7.583e3					1.0	NO		bb		0.000
8	FUNCTION2 PFK	31.98	1.453e4					1.3	NO		db		0.000
9	FUNCTION2 PFK	31.91	1.204e4					0.9	NO		bd		0.000
10	FUNCTION2 PFK	31.47	8.812e3					1.2	NO		db		0.000
11	FUNCTION2 PFK	31.44	4.255e3					0.6	NO		bd		0.000
12	FUNCTION2 PFK	31.37	2.130e4					1.5	NO		bb		0.000
13	FUNCTION2 PFK	30.76	2.662e3					0.7	NO		bb		0.000
14	FUNCTION2 PFK	30.65	4.052e4					1.8	NO		bb		0.000
15	FUNCTION2 PFK	30.55	2.891e4					1.8	NO		bb		0.000
16	FUNCTION2 PFK	30.41	2.278e4					1.4	NO		bb		0.000
17	FUNCTION2 PFK	30.17	1.926e3					0.5	NO		bb		0.000
18	FUNCTION2 PFK	30.12	6.021e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	29.73	5.436e3					0.7	NO		bb		0.000
20	FUNCTION2 PFK	29.47	2.284e3					0.6	NO		bb		0.000
21	FUNCTION2 PFK	29.30	4.737e3					0.7	NO		bb		0.000
22	FUNCTION2 PFK	29.26	1.755e3					0.4	NO		bb		0.000
23	FUNCTION2 PFK	32.78	1.881e3					0.5	NO		bb		0.000
24	FUNCTION2 PFK	32.71	1.577e4					1.0	NO		bb		0.000
25	FUNCTION2 PFK	32.51	9.995e3					1.1	NO		bb		0.000
26	FUNCTION2 PFK	32.47	2.247e3					0.6	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	35.82	4.647e3					0.7	NO		bb		0.000
2	FUNCTION3 PFK	35.59	1.633e4					1.5	NO		bb		0.000
3	FUNCTION3 PFK	34.76	2.289e4					1.3	NO		bb		0.000
4	FUNCTION3 PFK	34.10	6.463e3					0.8	NO		db		0.000
5	FUNCTION3 PFK	34.01	3.193e4					2.0	NO		bd		0.000
6	FUNCTION3 PFK	33.69	1.437e4					1.2	NO		db		0.000
7	FUNCTION3 PFK	33.65	8.391e3					0.9	NO		bd		0.000
8	FUNCTION3 PFK	33.30	7.910e3					1.1	NO		db		0.000
9	FUNCTION3 PFK	33.26	4.786e3					0.7	NO		bd		0.000
10	FUNCTION3 PFK	33.06	2.792e3					0.8	NO		bb		0.000
11	FUNCTION3 PFK	33.00	4.763e4					3.7	YES		bb		0.000
12	FUNCTION3 PFK	37.91	6.257e3					0.8	NO		bb		0.000
13	FUNCTION3 PFK	37.86	8.568e3					1.0	NO		bb		0.000
14	FUNCTION3 PFK	37.37	1.482e4					0.8	NO		bb		0.000
15	FUNCTION3 PFK	37.32	2.690e3					0.7	NO		bb		0.000
16	FUNCTION3 PFK	37.28	4.414e3					0.5	NO		bb		0.000
17	FUNCTION3 PFK	36.98	7.596e3					0.7	NO		bb		0.000
18	FUNCTION3 PFK	36.90	2.386e4					0.8	NO		bb		0.000
19	FUNCTION3 PFK	36.19	4.240e3					0.7	NO		bb		0.000
20	FUNCTION3 PFK	36.06	5.168e3					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													

Quantify Totals Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D2.qld

Last Altered: Wednesday, February 08, 2023 13:13:24 Pacific Standard Time

Printed: Wednesday, February 08, 2023 13:18:03 Pacific Standard Time

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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	43.62	3.389e3					1.1	NO		bb		
2	FUNCTION5 PFK	43.33	1.450e3					0.7	NO		db		
3	FUNCTION5 PFK	43.29	2.064e3					0.9	NO		bd		
4	FUNCTION5 PFK	43.13	3.447e3					1.7	NO		db		
5	FUNCTION5 PFK	43.10	9.441e3					1.7	NO		bd		
6	FUNCTION5 PFK	46.36	4.308e3					1.3	NO		bb		
7	FUNCTION5 PFK	46.31	5.106e3					1.8	NO		db		
8	FUNCTION5 PFK	46.28	4.832e3					1.6	NO		bd		
9	FUNCTION5 PFK	46.01	9.302e2					0.6	NO		bb		
10	FUNCTION5 PFK	45.88	3.557e3					1.3	NO		bb		
11	FUNCTION5 PFK	45.24	1.699e3					1.0	NO		bb		
12	FUNCTION5 PFK	45.19	1.379e3					0.8	NO		db		
13	FUNCTION5 PFK	45.17	4.531e3					1.7	NO		bd		
14	FUNCTION5 PFK	45.02	1.435e4					1.7	NO		bb		
15	FUNCTION5 PFK	44.89	1.604e3					0.7	NO		bb		
16	FUNCTION5 PFK	44.35	1.308e3					0.7	NO		bb		
17	FUNCTION5 PFK	44.09	5.816e3					2.0	NO		bb		
18	FUNCTION5 PFK	43.99	1.745e3					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...	25.84	1.640e2					1.9	NO		bd		0.000
2	FUNCTION1 HXCD...	25.16	1.056e2					2.3	NO		bb		0.000
3	FUNCTION1 HXCD...	26.20	1.105e2					2.1	NO		db		0.000
4	FUNCTION1 HXCD...	26.05	8.007e1					2.1	NO		dd		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HPCD...	27.85	8.181e1					1.5	NO		bb		0.000
2	FUNCTION1 HPCD...	27.23	8.323e1					1.9	NO		bb		0.000
3	FUNCTION1 HPCD...	26.65	7.423e1					2.2	NO		bb		0.000
4	FUNCTION1 HPCD...	26.08	8.787e1					1.8	NO		db		0.000
5	FUNCTION1 HPCD...	25.91	8.908e1					1.6	NO		bd		0.000
6	FUNCTION1 HPCD...	22.40	7.443e1					1.5	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230207D2.qld

Last Altered: Wednesday, February 08, 2023 13:13:24 Pacific Standard Time

Printed: Wednesday, February 08, 2023 13:18:03 Pacific Standard Time

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, 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...	31.17	2.680e2					4.4	YES		bb		0.000
2	FUNCTION2 HPCD...	30.85	9.332e1					1.6	NO		bb		0.000
3	FUNCTION2 HPCD...	30.10	1.598e2					3.3	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	37.66	7.760e1					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	41.49	1.116e2					2.3	NO		bb		0.000

ETHERS6

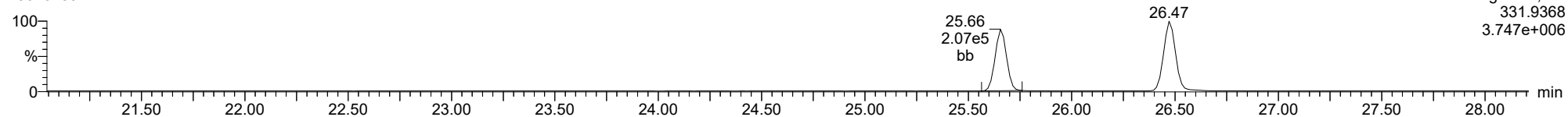
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	46.19	7.691e1					2.9	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230206.mdb 07 Feb 2023 09:29:10
Calibration: T:\Autospec\Curves\230201ICIH.cdb 03 Feb 2023 10:33:40

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

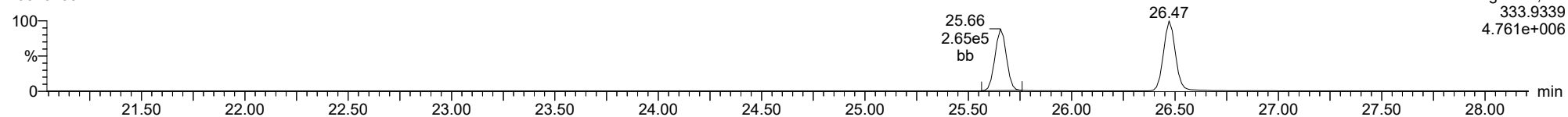
13C-1234-TCDD

23020733



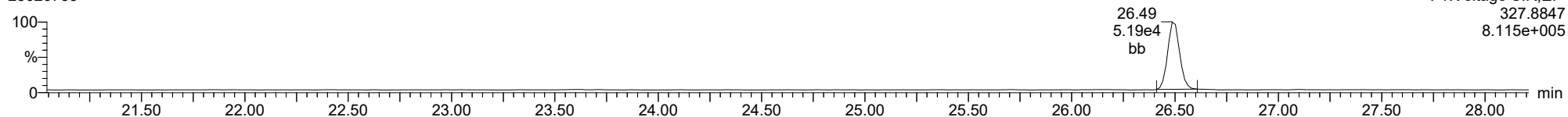
13C-1234-TCDD

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37CL-2378-TCDD

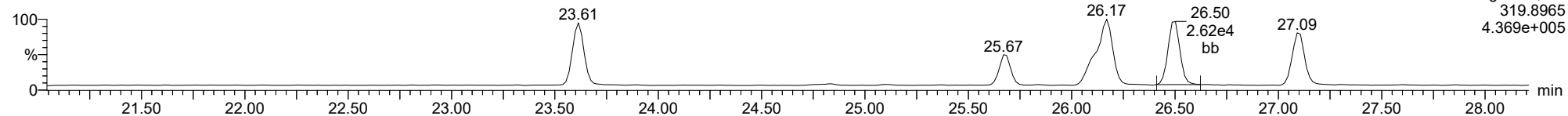
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

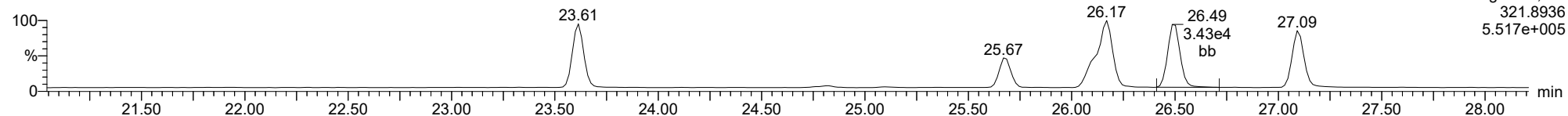
2378-TCDD

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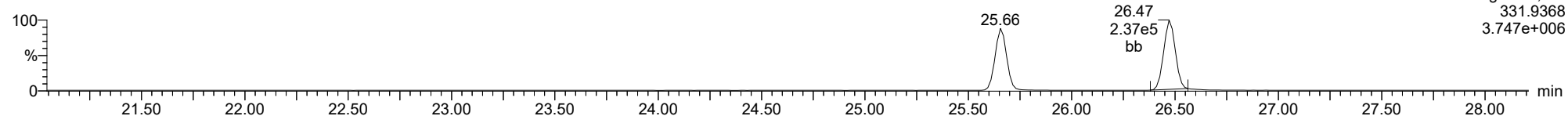
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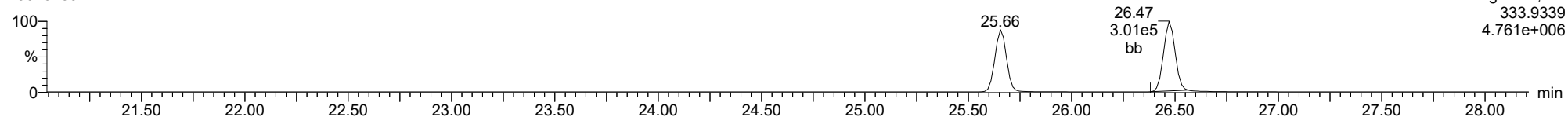
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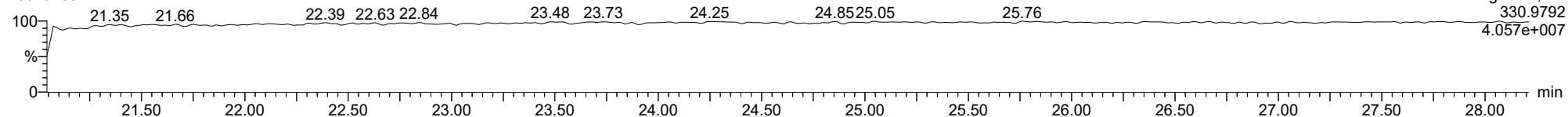
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FUNCTION1 PFK

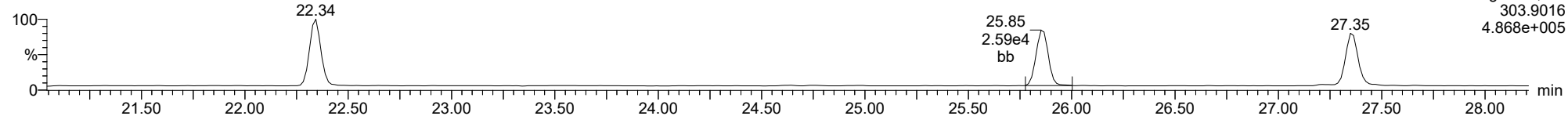
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

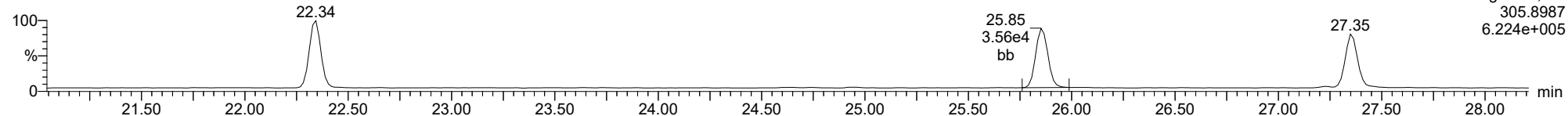
2378-TCDF

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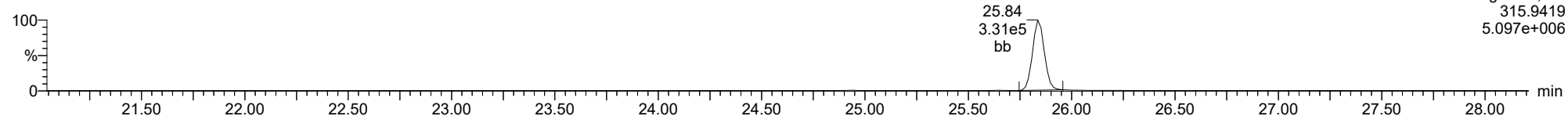
2378-TCDF

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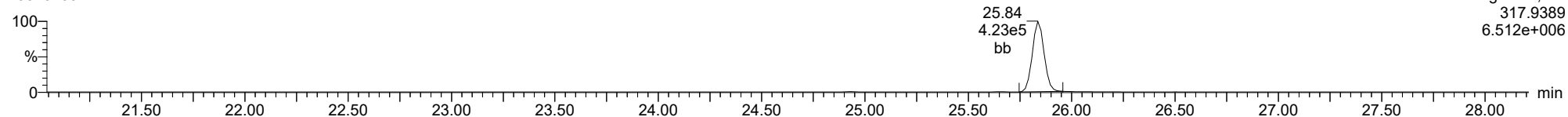
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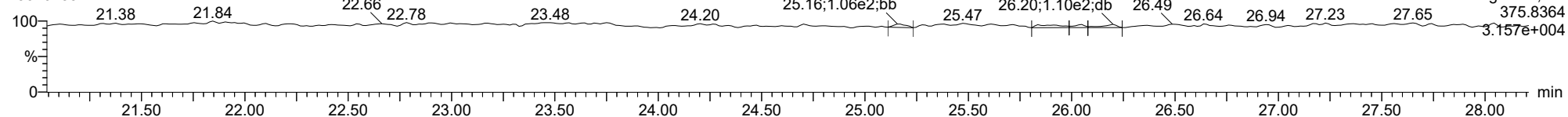
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FUNCTION1 HXCDPE

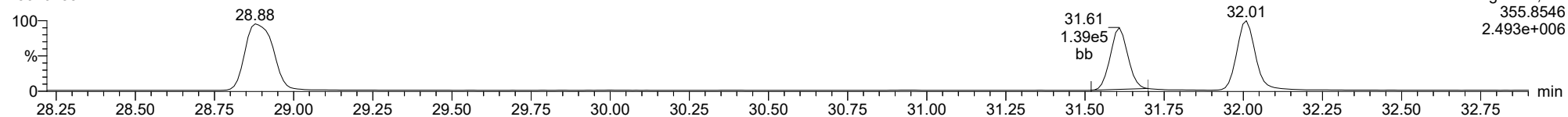
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

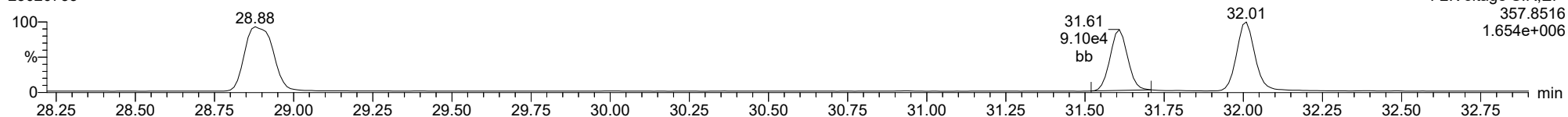
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F2:Voltage SIR,EI+
357.8516
2.493e+006

12378-PeCDD

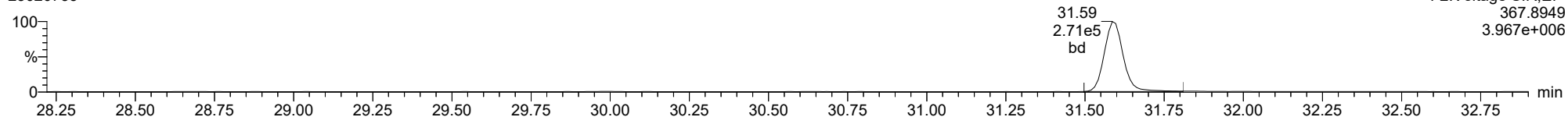
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F2:Voltage SIR,EI+
367.8949
1.654e+006

13C-12378-PeCDD

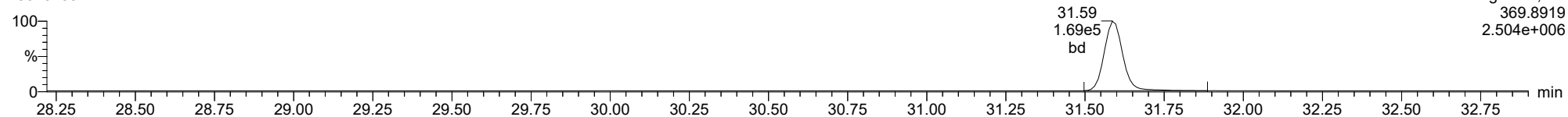
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F2:Voltage SIR,EI+
367.8949
3.967e+006

13C-12378-PeCDD

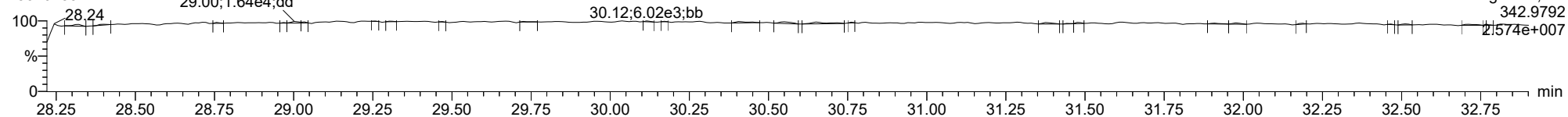
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F2:Voltage SIR,EI+
369.8919
2.504e+006

FUNCTION2 PFK

23020733

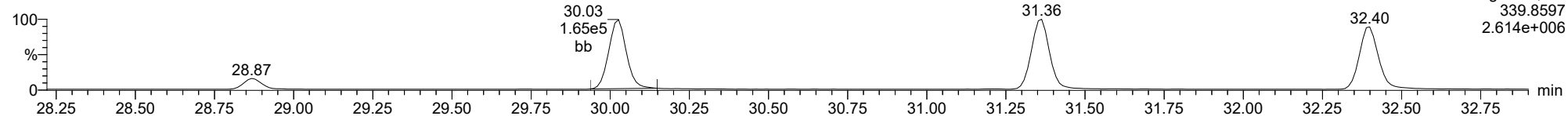


F2:Voltage SIR,EI+
342.9792
2.1574e+007

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

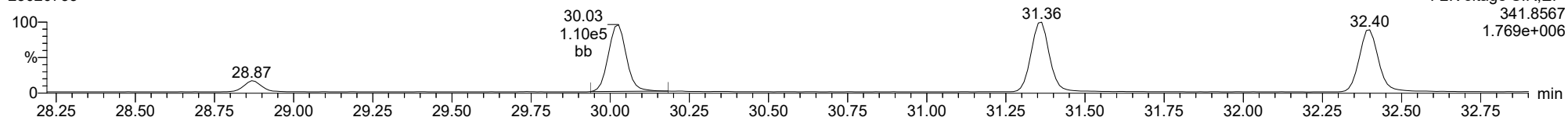
12378-PeCDF

23020733



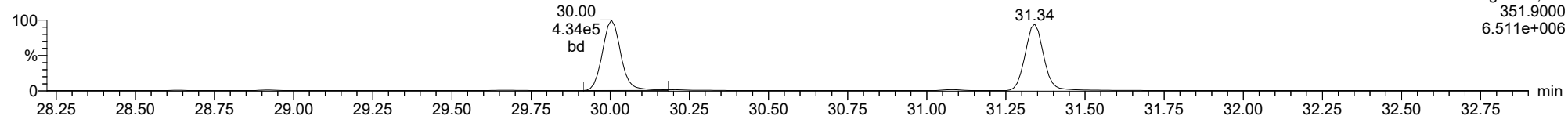
12378-PeCDF

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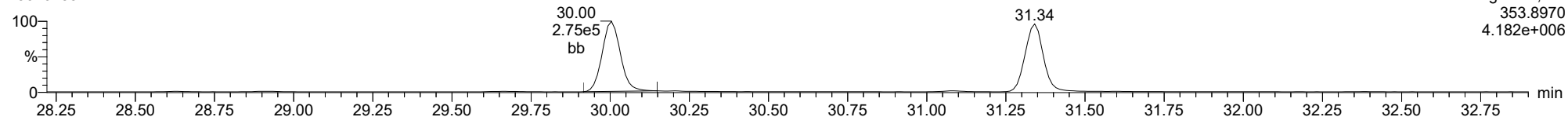
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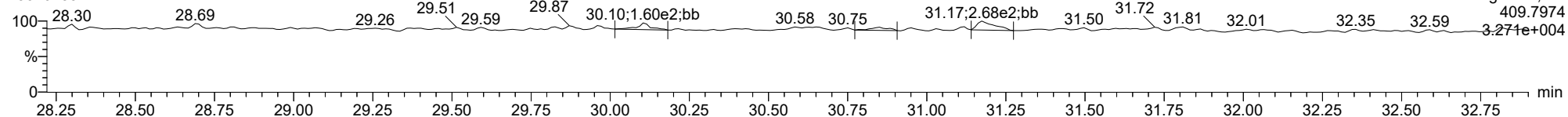
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FUNCTION2 HPCDPE

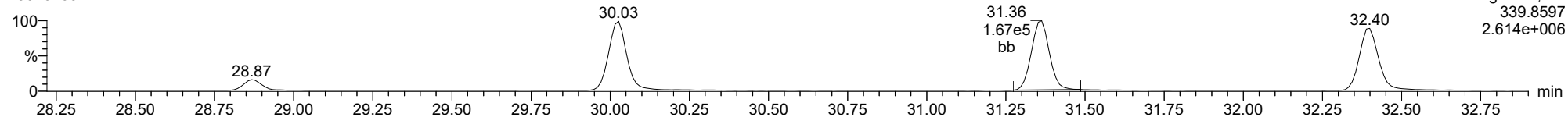
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

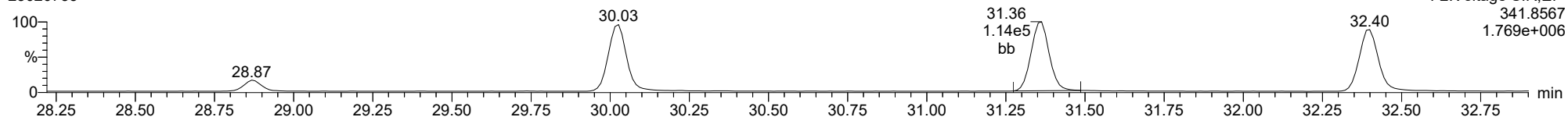
23478-PeCDF

23020733



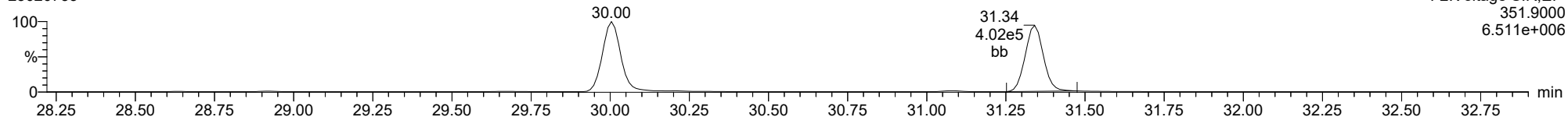
23478-PeCDF

23020733



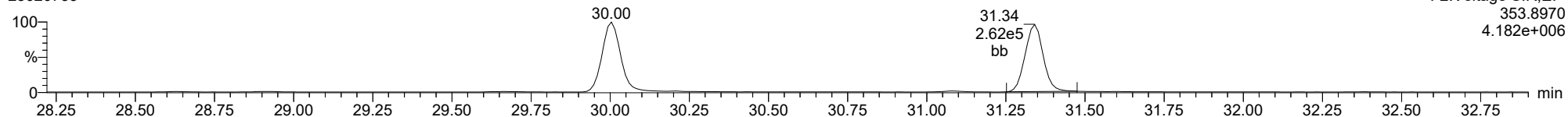
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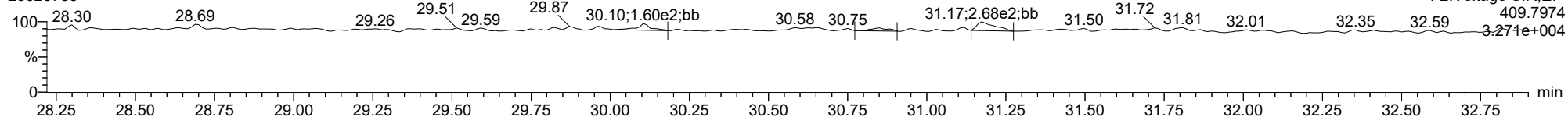
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23020733



FUNCTION2 HPCDPE

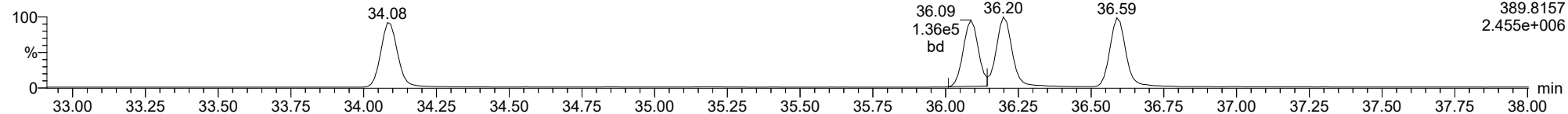
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

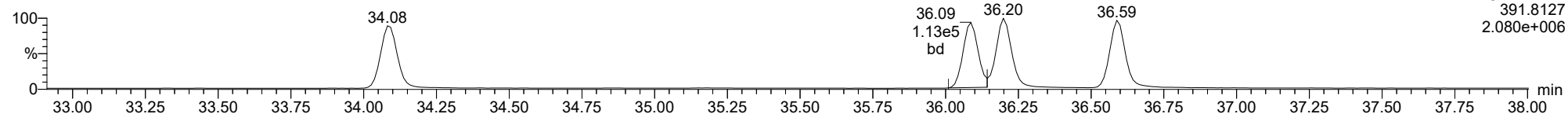
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F3:Voltage SIR,EI+
389.8157
2.455e+006

123478-HxCDD

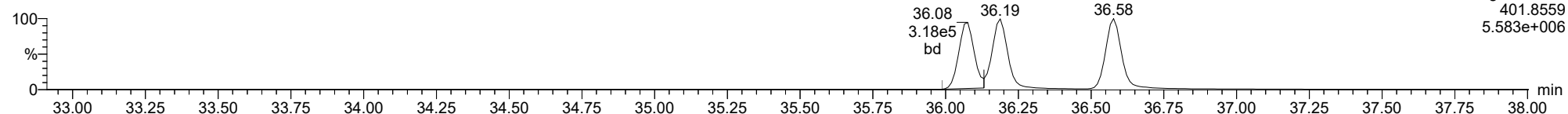
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F3:Voltage SIR,EI+
391.8127
2.080e+006

13C-123478-HxCDD

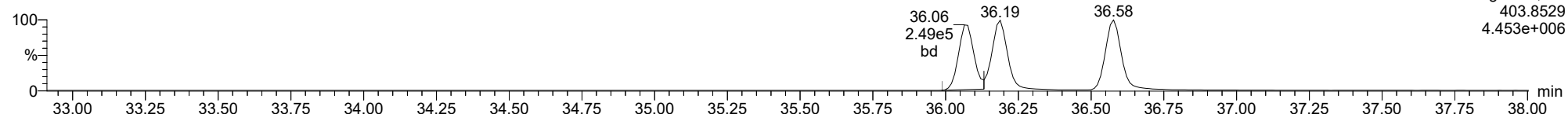
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F3:Voltage SIR,EI+
401.8559
5.583e+006

13C-123478-HxCDD

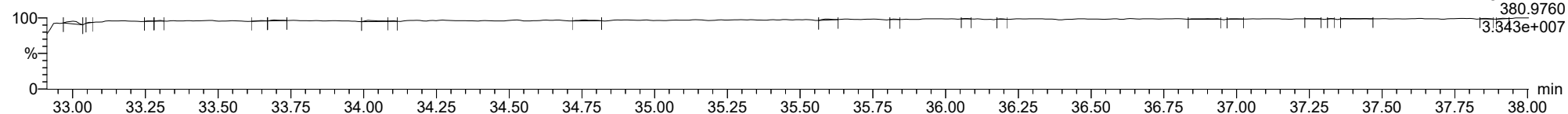
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F3:Voltage SIR,EI+
403.8529
4.453e+006

FUNCTION3 PFK

23020733

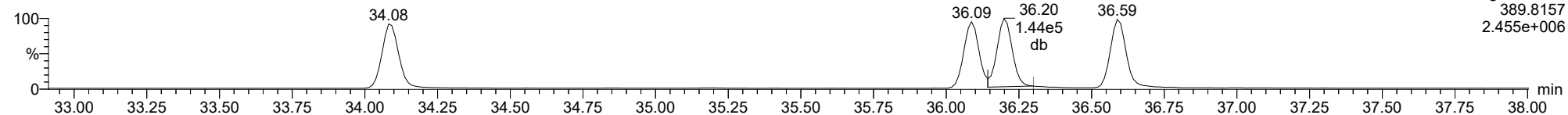


F3:Voltage SIR,EI+
380.9760
3.343e+007

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

123678-HxCDD

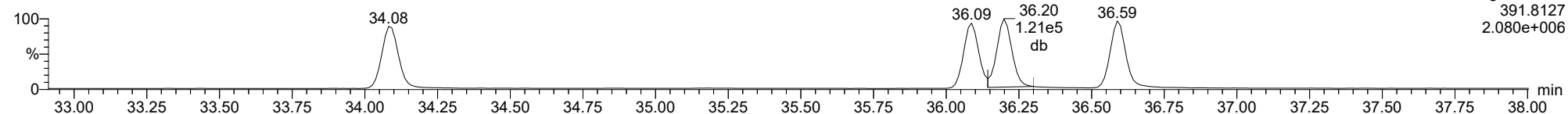
23020733



F3:Voltage SIR,EI+
389.8157
2.455e+006

123678-HxCDD

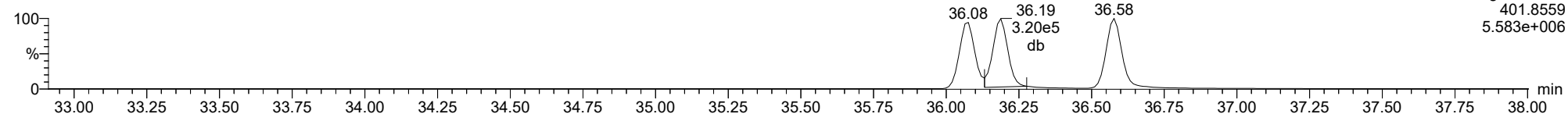
23020733



F3:Voltage SIR,EI+
391.8127
2.080e+006

13C-123678-HxCDD

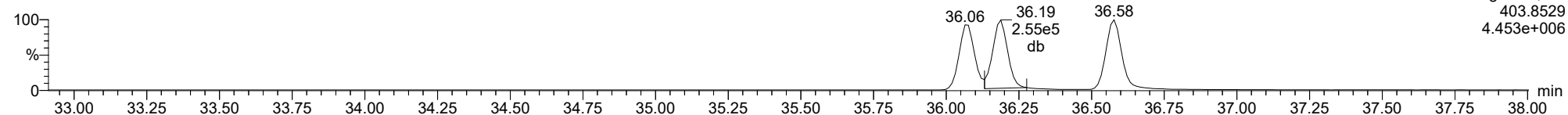
23020733



F3:Voltage SIR,EI+
401.8559
5.583e+006

13C-123678-HxCDD

23020733

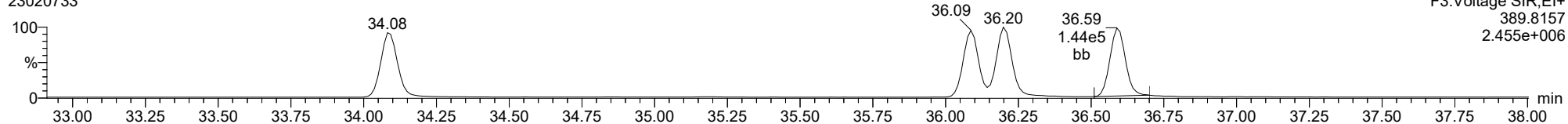


F3:Voltage SIR,EI+
403.8529
4.453e+006

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

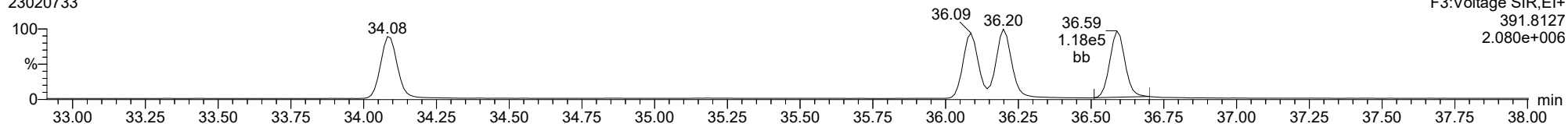
123789-HxCDD

23020733



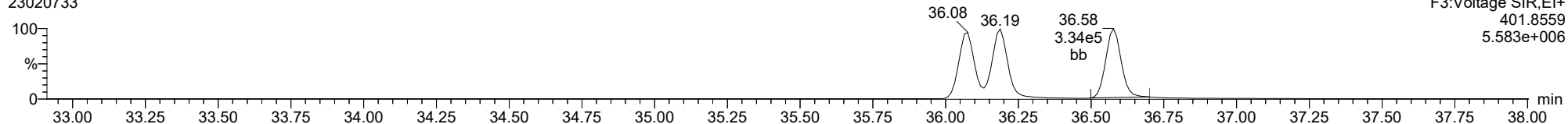
123789-HxCDD

23020733



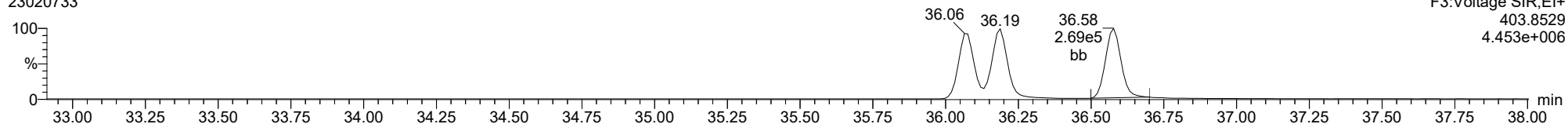
13C-123789-HxCDD

23020733



13C-123789-HxCDD

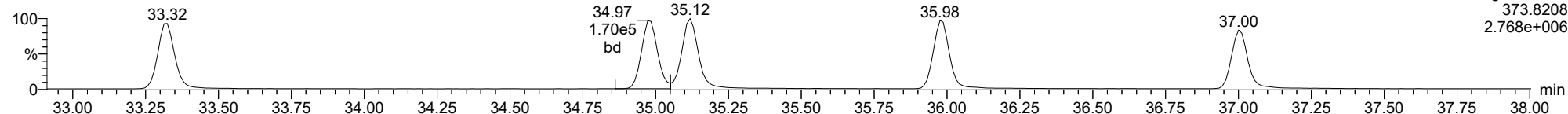
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

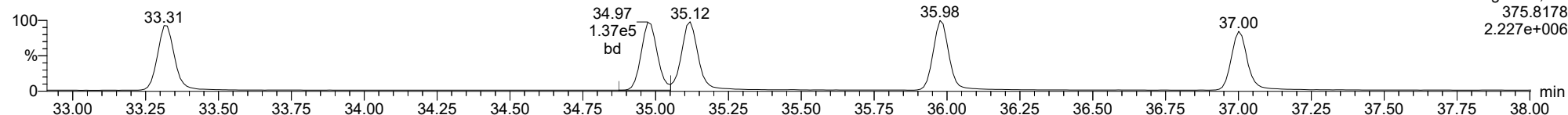
123478-HxCDF

23020733



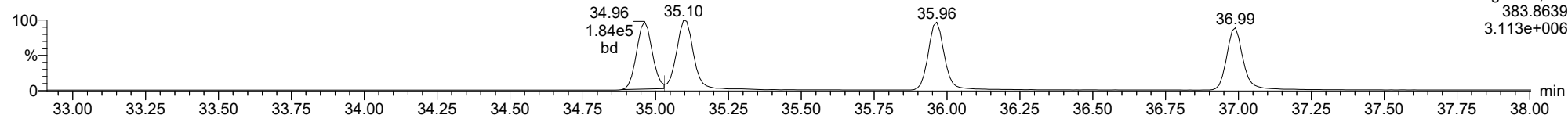
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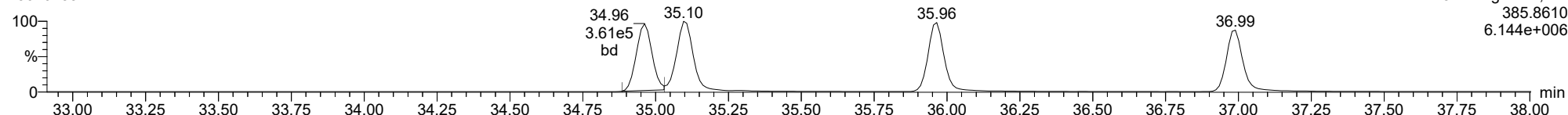
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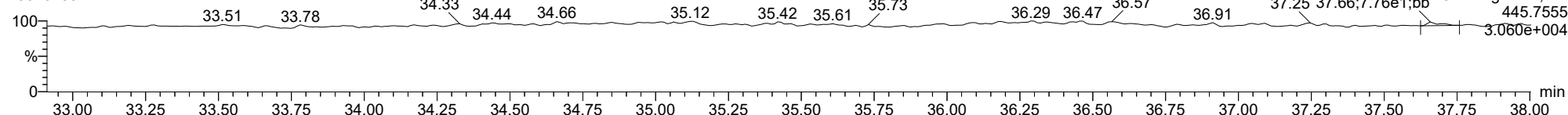
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FUNCTION3 OCDPE

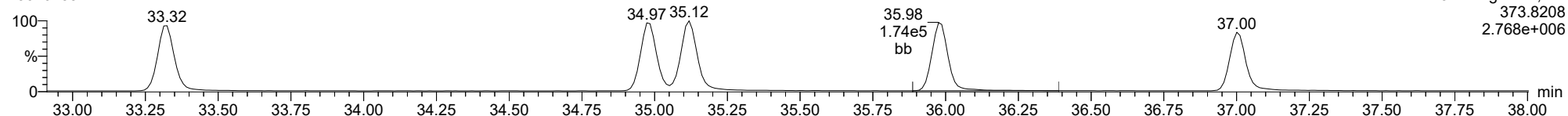
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

234678-HxCDF

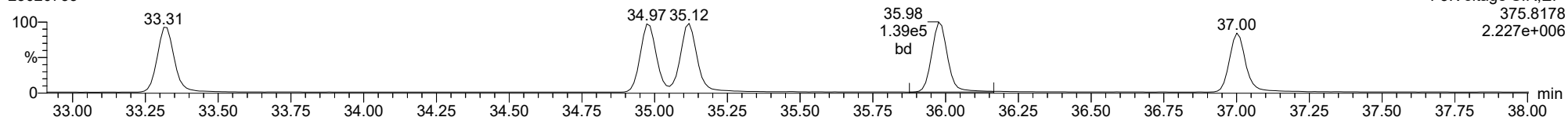
23020733



F3:Voltage SIR,EI+
373.8208
2.768e+006

234678-HxCDF

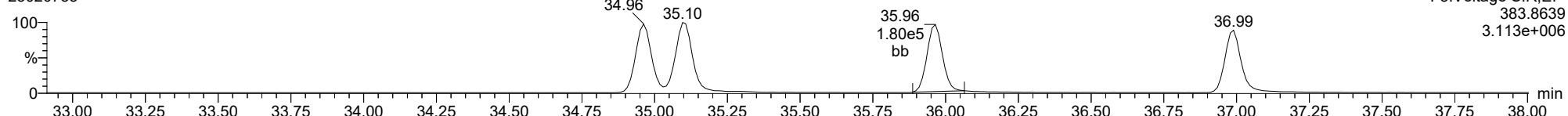
23020733



F3:Voltage SIR,EI+
375.8178
2.227e+006

13C-234678-HxCDF

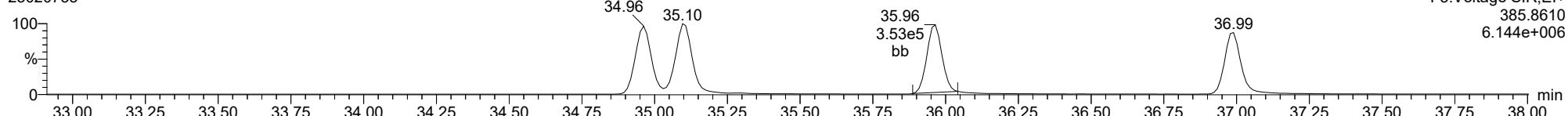
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F3:Voltage SIR,EI+
383.8639
3.113e+006

13C-234678-HxCDF

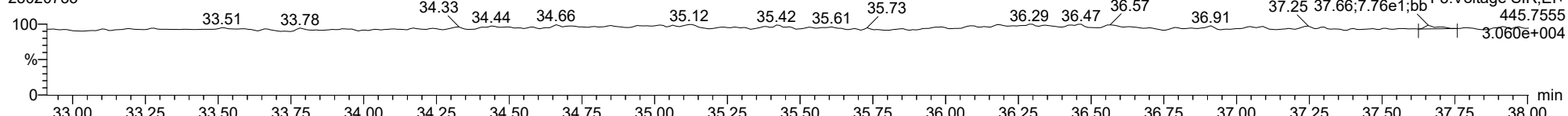
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F3:Voltage SIR,EI+
385.8610
6.144e+006

FUNCTION3 OCDPE

23020733

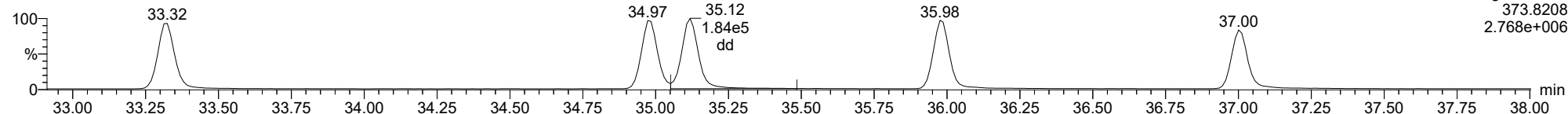


F3:Voltage SIR,EI+
445.7555
3.060e+004

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

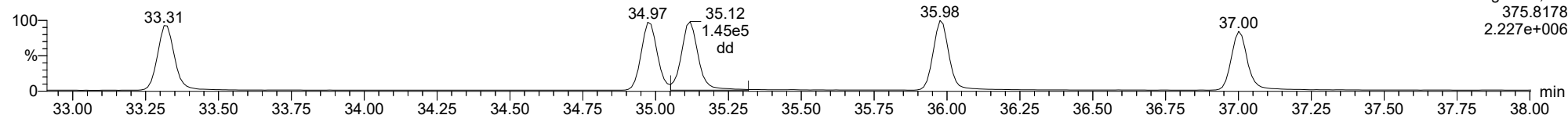
123678-HxCDF

23020733



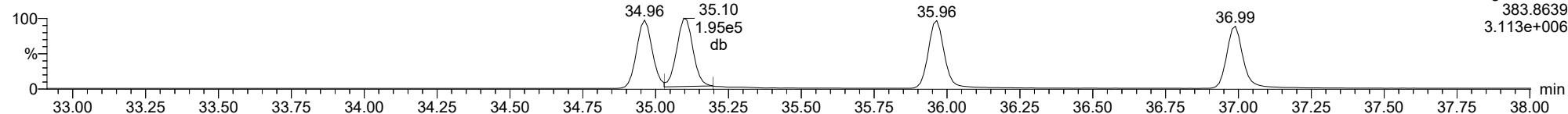
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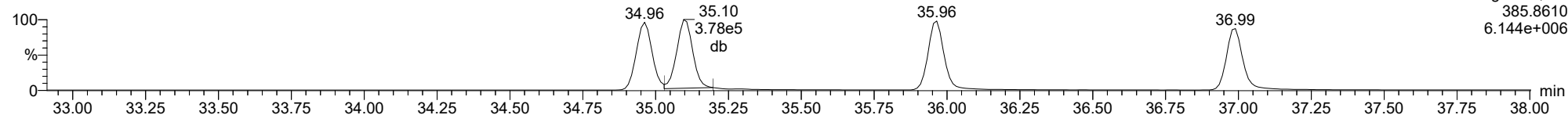
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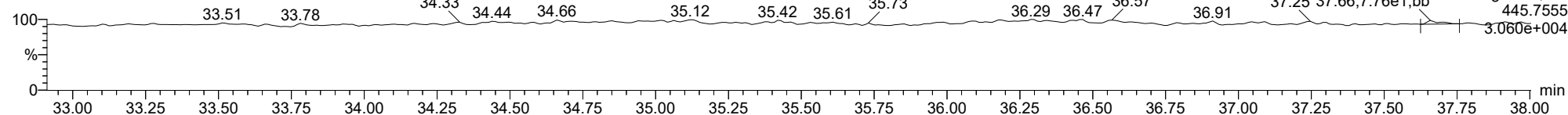
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FUNCTION3 OCDPE

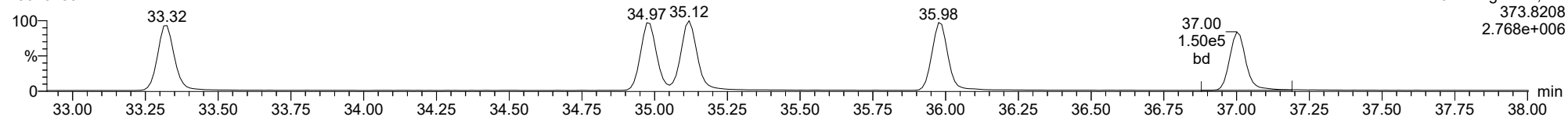
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

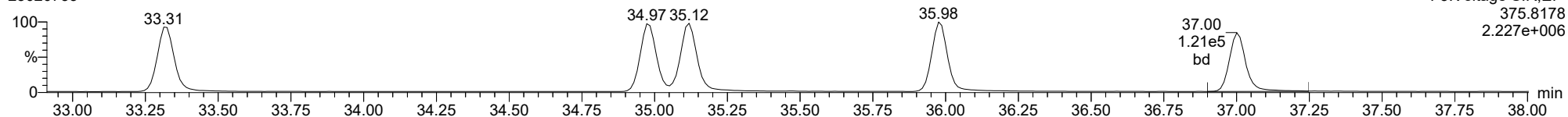
123789-HxCDF

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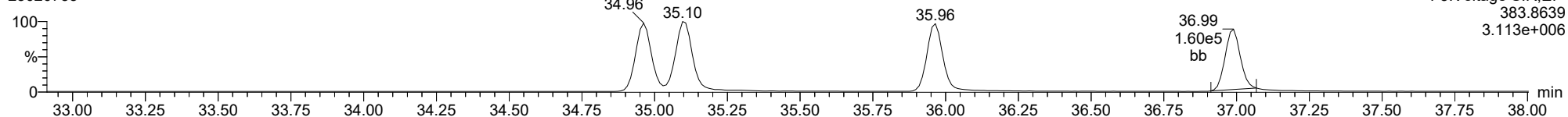
123789-HxCDF

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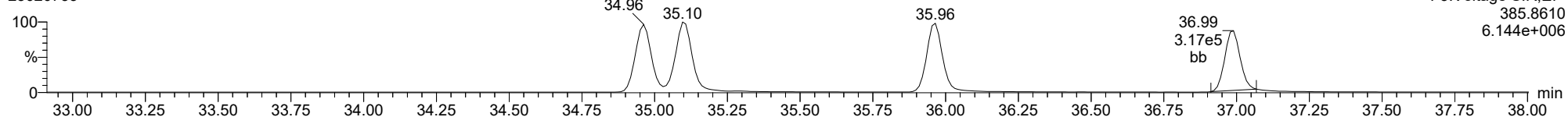
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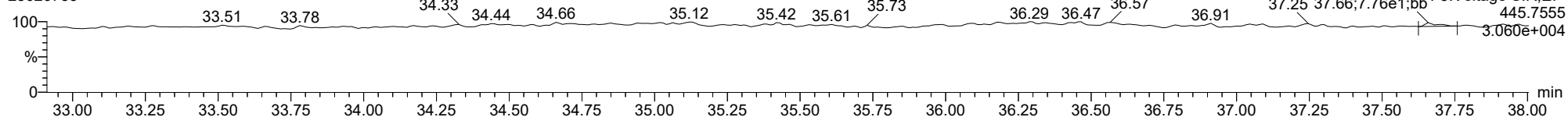
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FUNCTION3 OCDPE

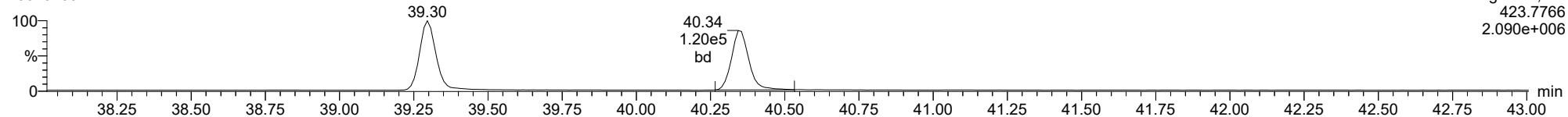
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

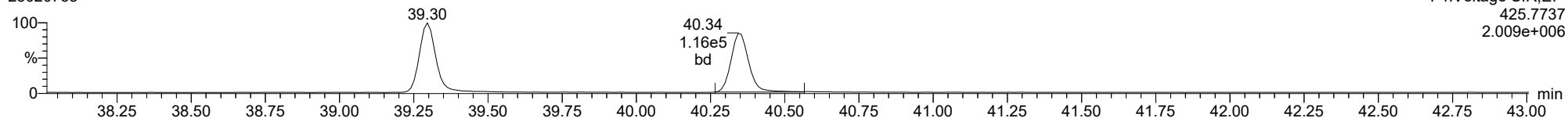
1234678-HpCDD

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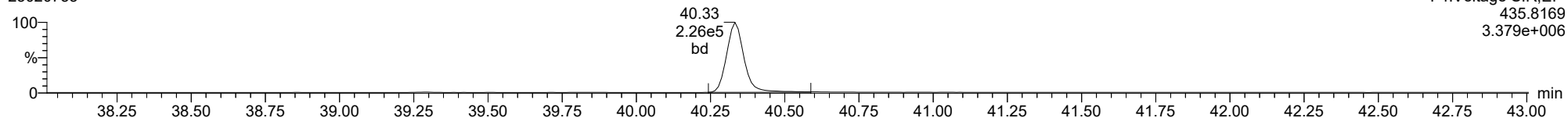
1234678-HpCDD

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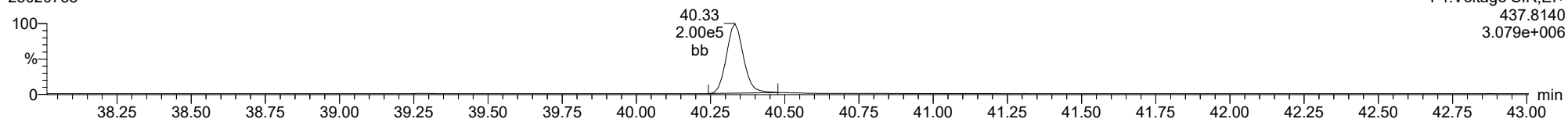
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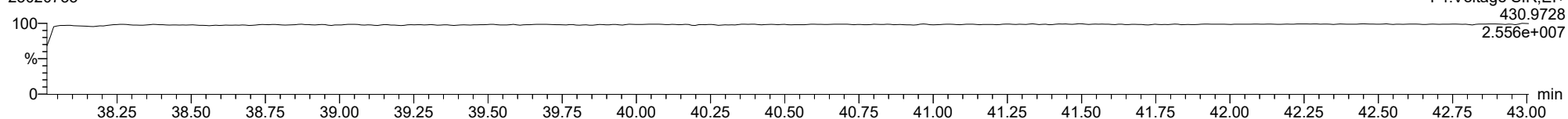
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FUNCTION4 PFK

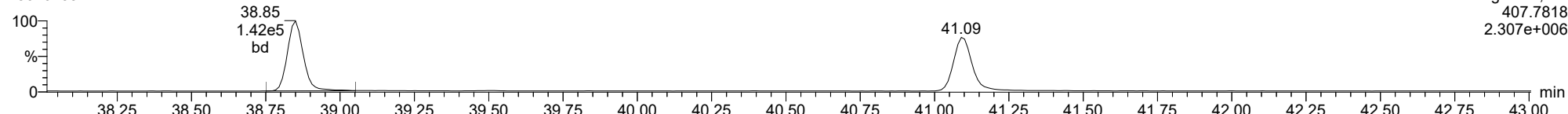
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

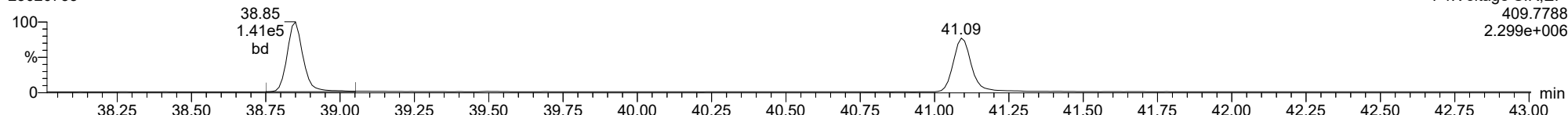
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F4:Voltage SIR,EI+
407.7818
2.307e+006

1234678-HpCDF

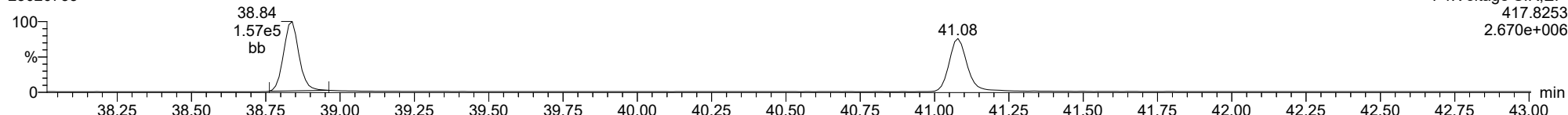
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F4:Voltage SIR,EI+
409.7788
2.299e+006

13C-1234678-HpCDF

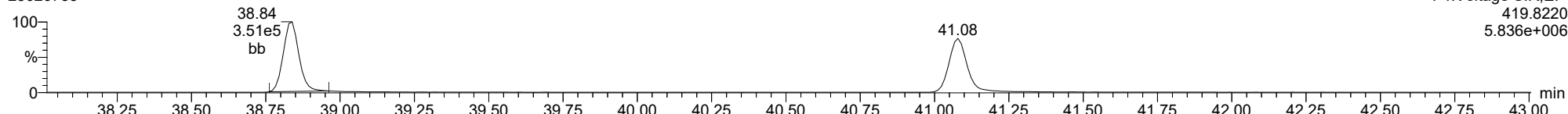
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F4:Voltage SIR,EI+
417.8253
2.670e+006

13C-1234678-HpCDF

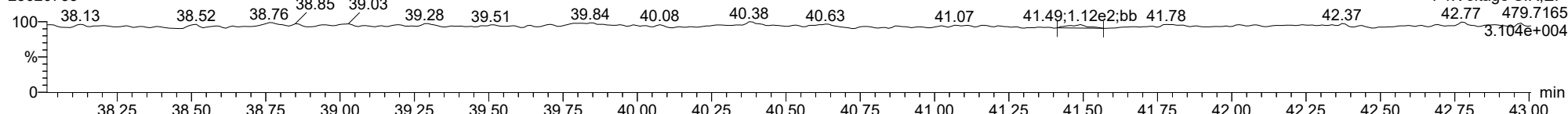
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F4:Voltage SIR,EI+
419.8220
5.836e+006

FUNCTION4 NCDPE

23020733

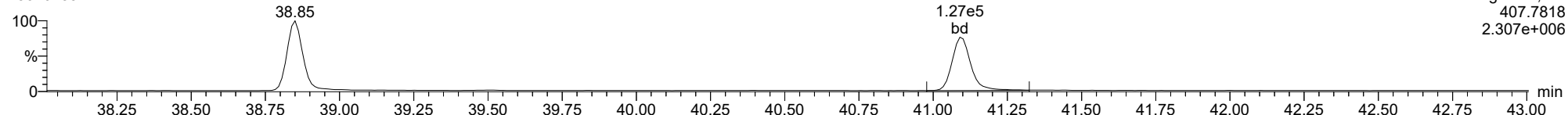


F4:Voltage SIR,EI+
427.7165
3.104e+004

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

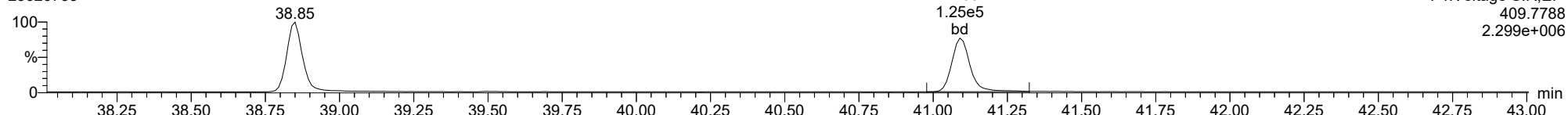
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F4:Voltage SIR,EI+
407.7818
2.307e+006

1234789-HpCDF

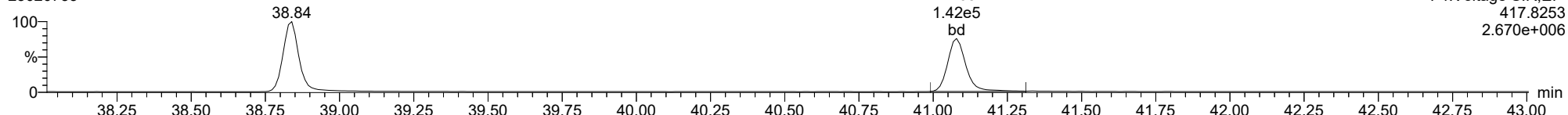
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F4:Voltage SIR,EI+
409.7788
2.299e+006

13C-1234789-HpCDF

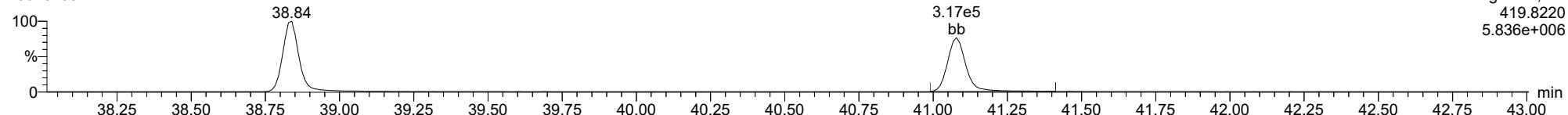
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F4:Voltage SIR,EI+
417.8253
2.670e+006

13C-1234789-HpCDF

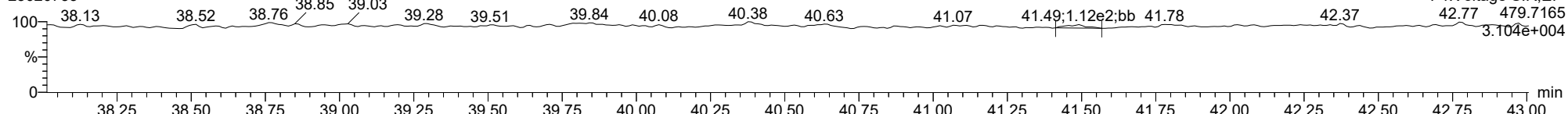
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F4:Voltage SIR,EI+
419.8220
5.836e+006

FUNCTION4 NCDPE

23020733

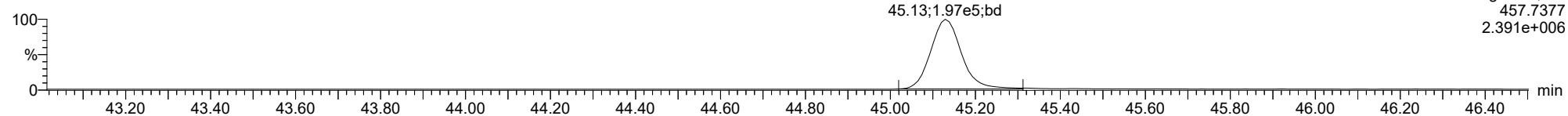


F4:Voltage SIR,EI+
42.77 479.7165
3.104e+004

ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

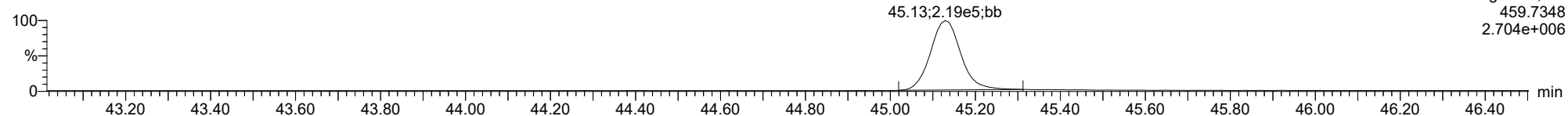
OCDD

23020733



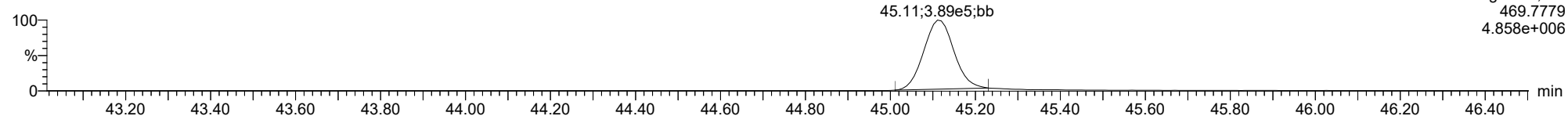
OCDD

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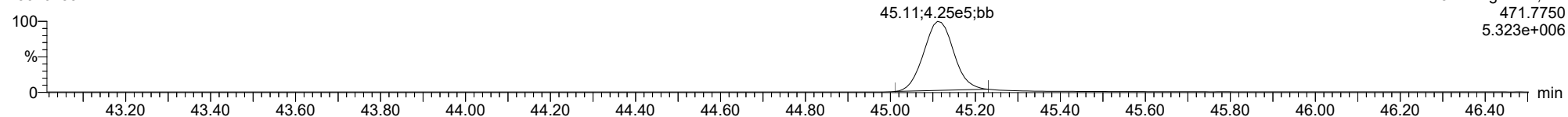
13C-OCDD

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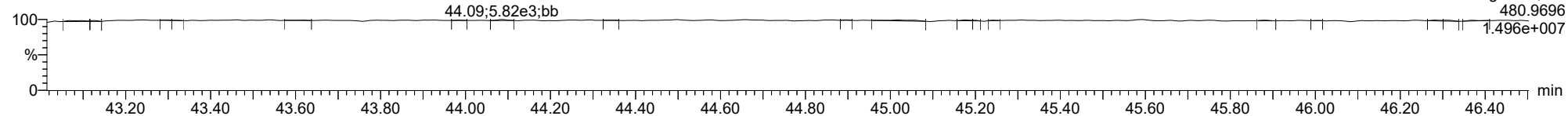
13C-OCDD

23020733



FUNCTION5 PFK

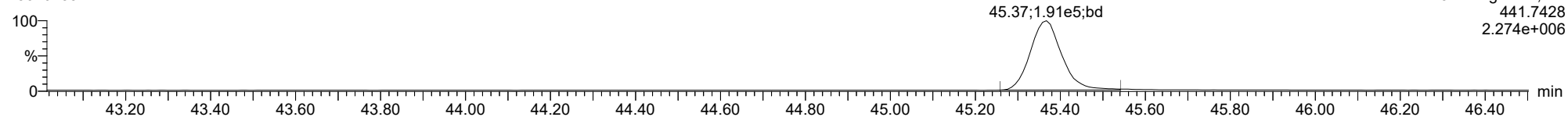
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

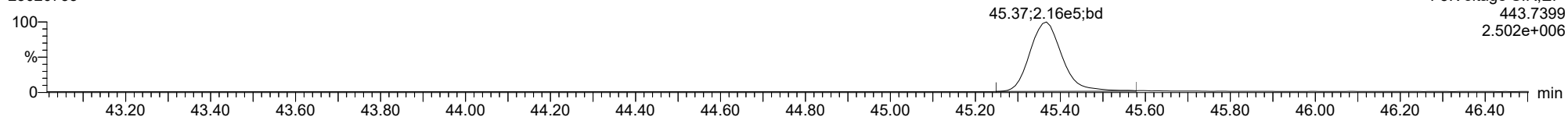
OCDF

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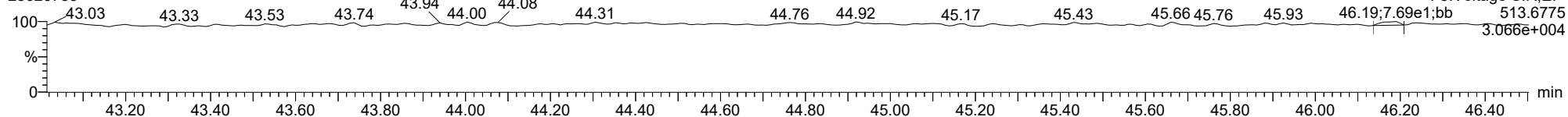
OCDF

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FUNCTION5 DCDPE

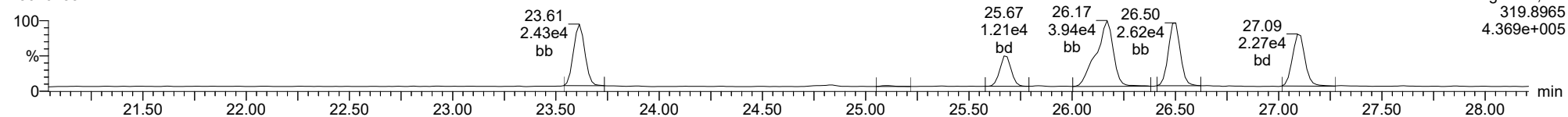
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

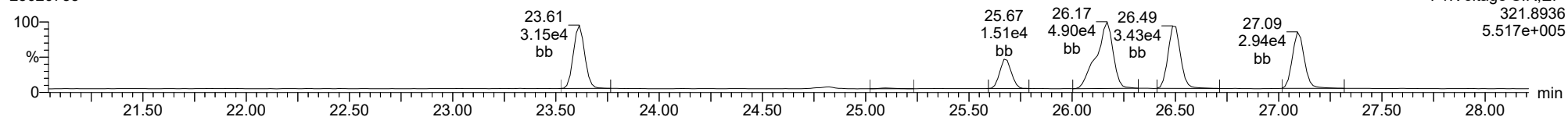
Total-tetradoxins

23020733



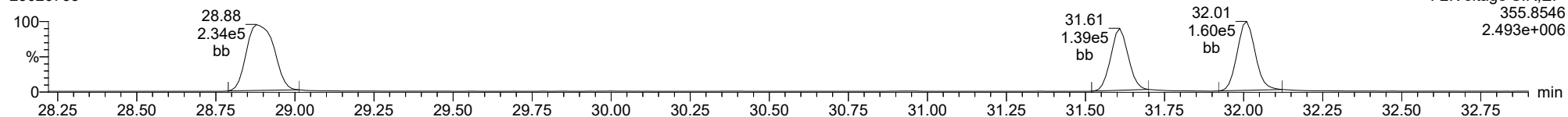
Total-tetradoxins

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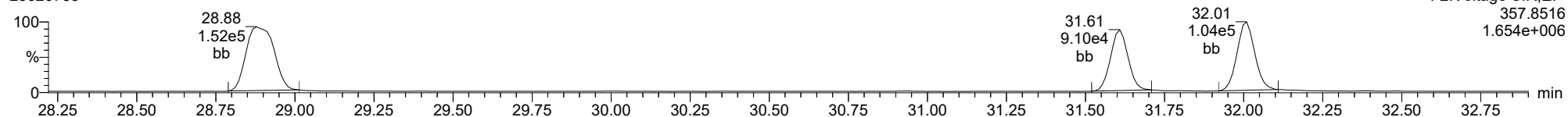
Total-pentadoxins

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Total-pentadoxins

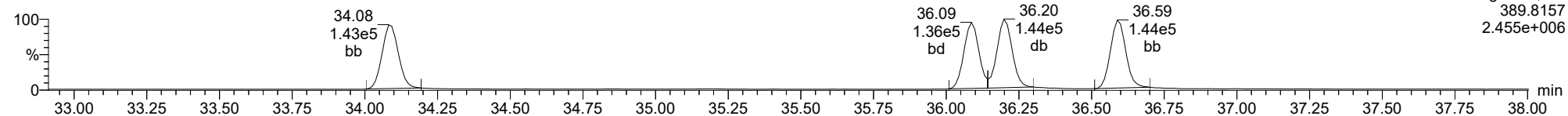
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

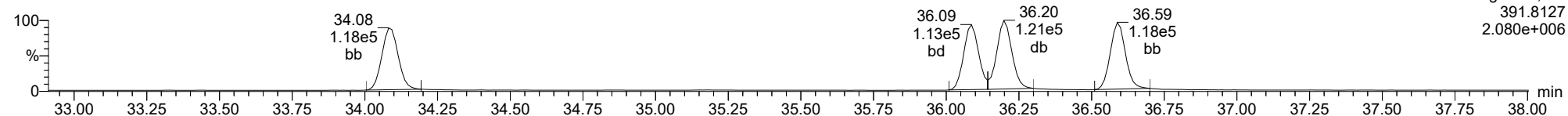
Total-hexadioxins

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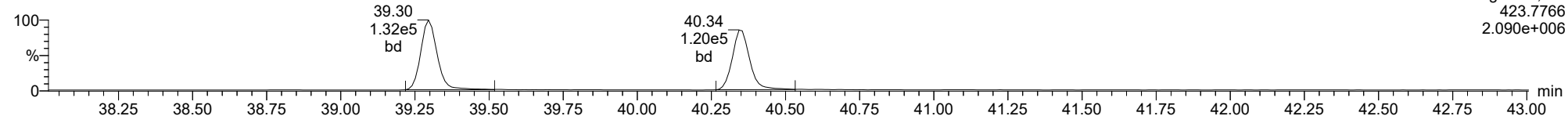
Total-hexadioxins

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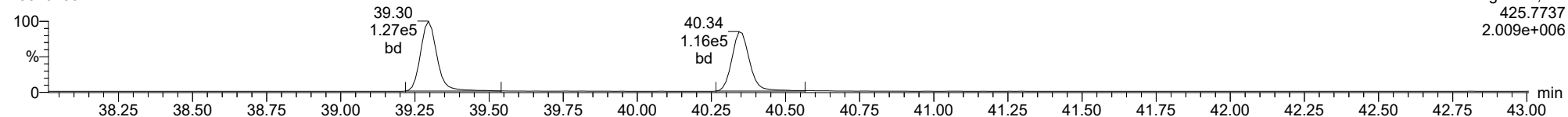
Total-heptadioxins

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Total-heptadioxins

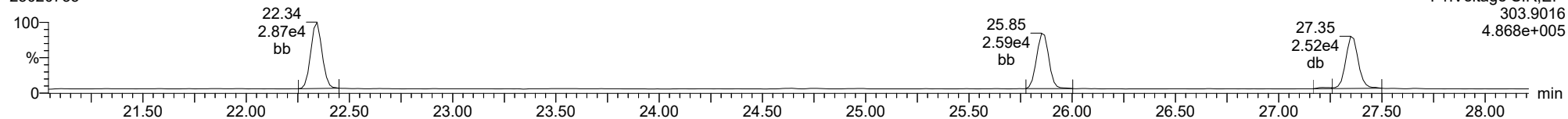
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

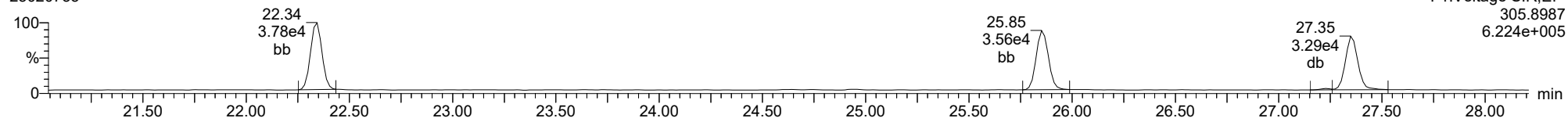
Total-tetrafurans

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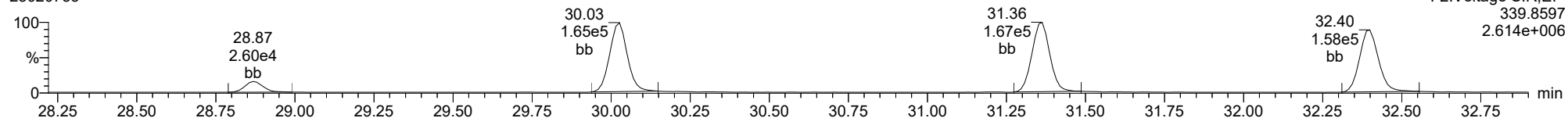
Total-tetrafurans

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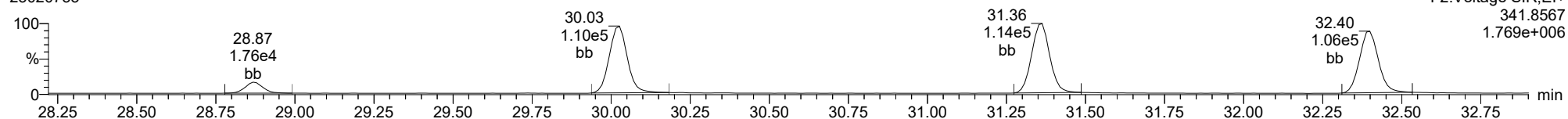
Total-pentafurans

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Total-pentafurans

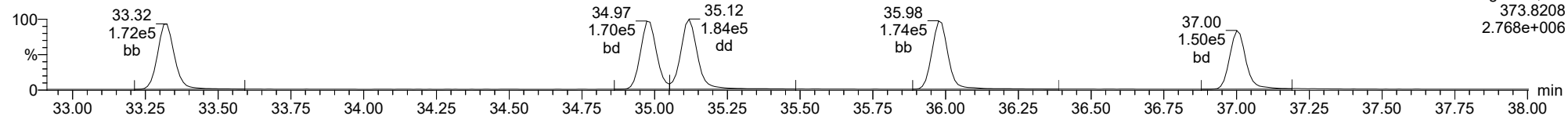
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ID: CS3T4, Name: 23020733, Date: 08-Feb-2023, Time: 11:35:35, Conditions: AUTOSPEC01, User: pk

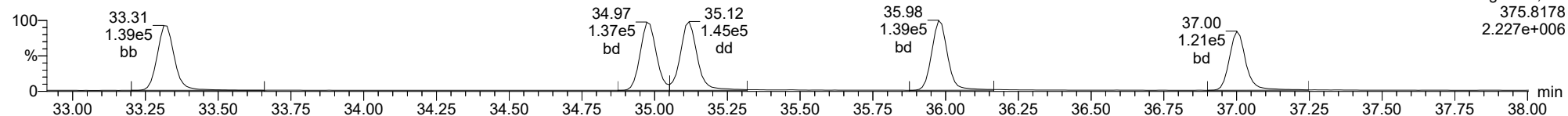
Total-hexafurans

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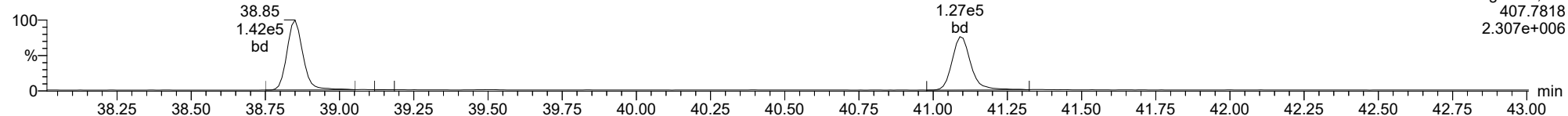
Total-hexafurans

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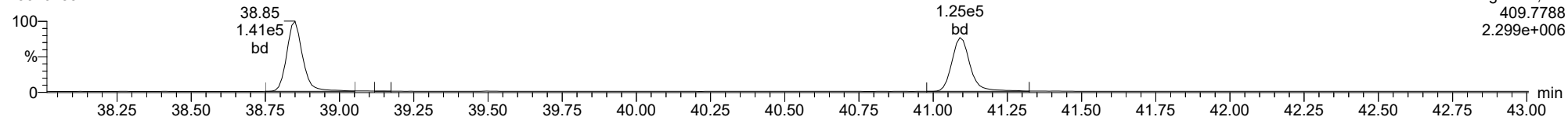
Total-heptafurans

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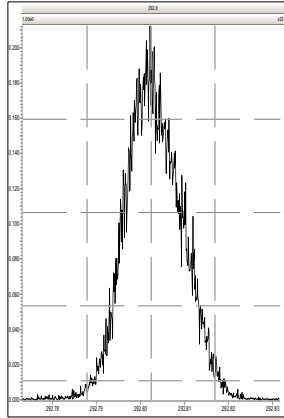


Total-heptafurans

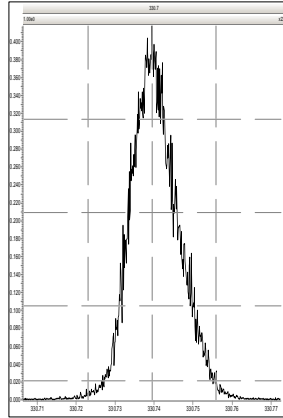
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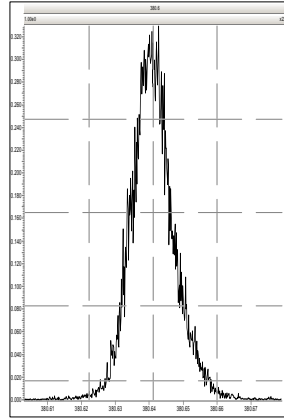
M 292.9824 R 10224



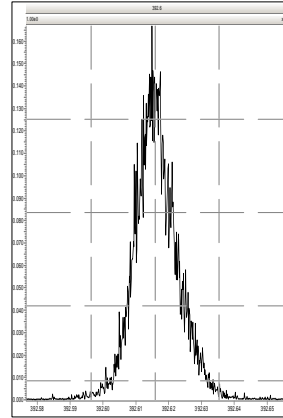
M 330.9792 R 11576



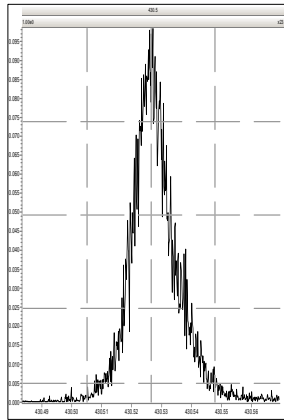
M 380.9760 R 13021



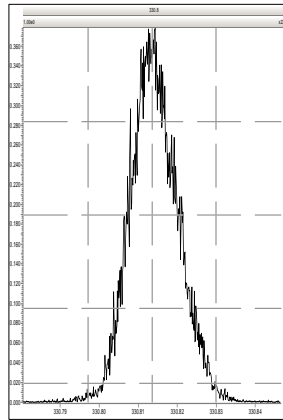
M 392.9760 R 13444



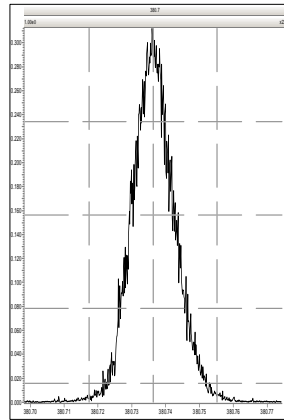
M 430.9728 R 12855



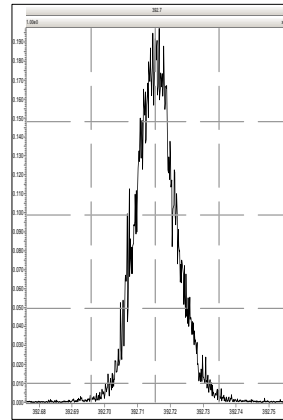
M 330.9792 R 11991



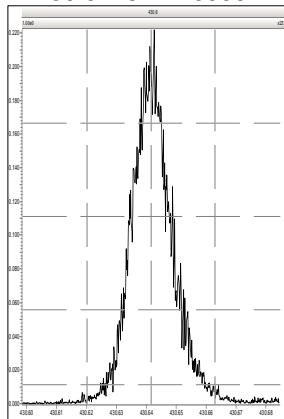
M 380.9760 R 13404



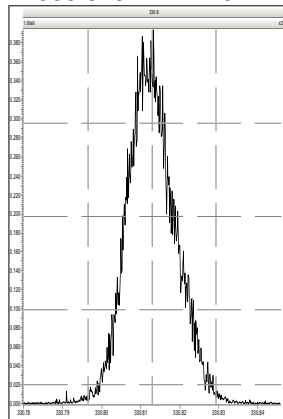
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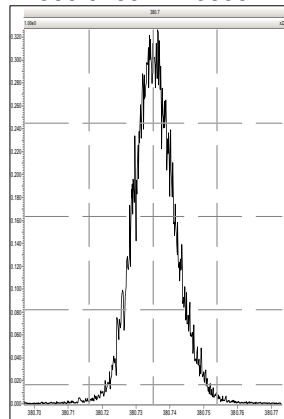
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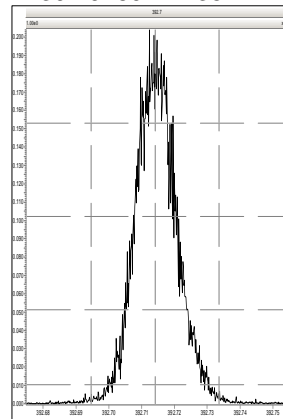
M 330.9792 R 12107



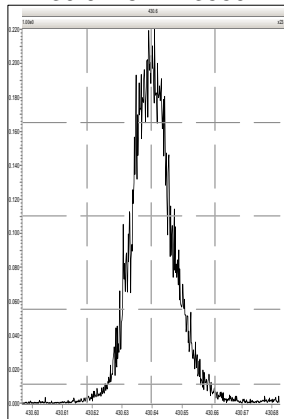
M 380.9760 R 13635



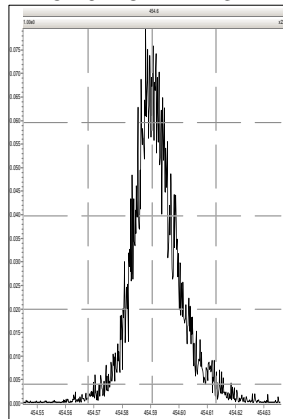
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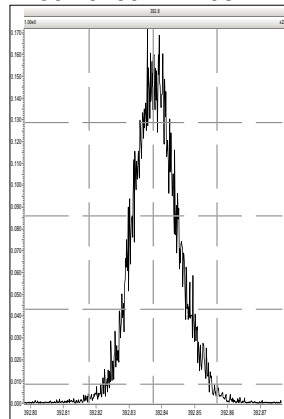
M 430.9728 R 13550



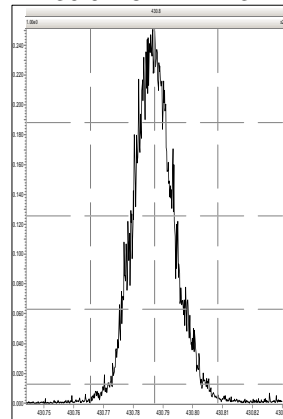
M 454.9728 R 12732



M 392.9760 R 12987

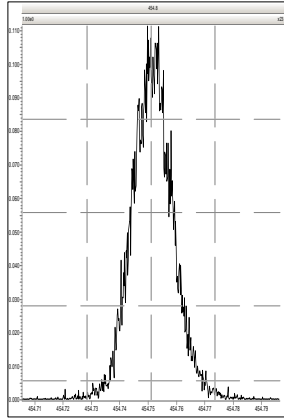


M 430.9728 R 14173

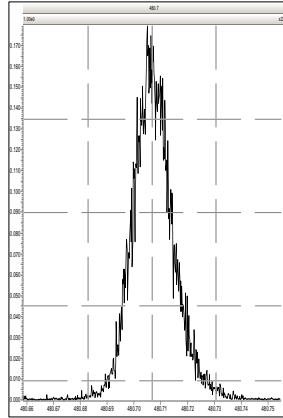


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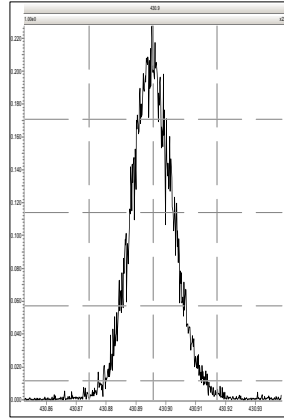
M 454.9728 R 14584



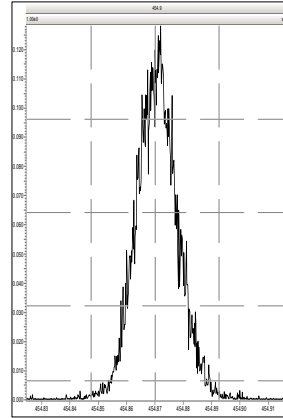
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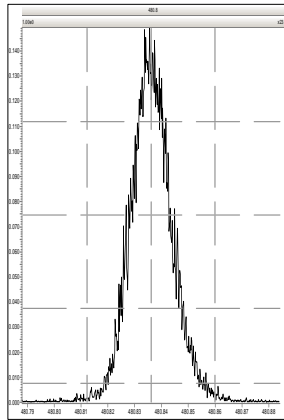
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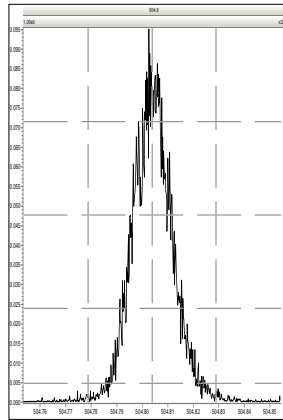
M 454.9728 R 13520



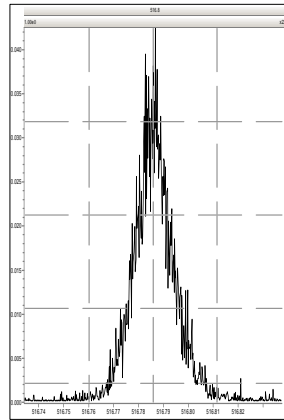
M 480.9696 R 13737



M 504.9696 R 13664



M 516.9697 R 13626

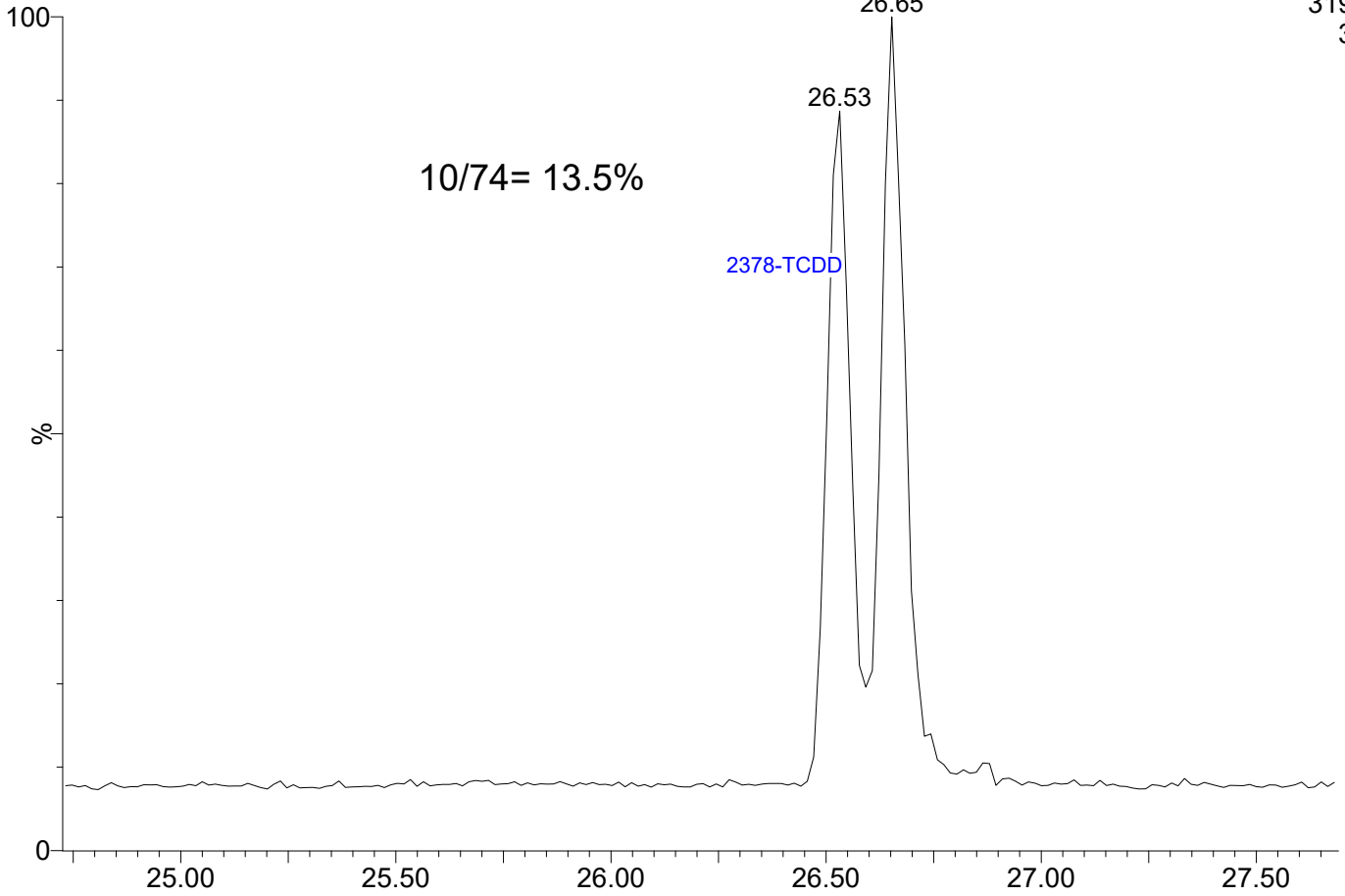


23020734

1: Voltage SIR 15 Channels EI+

319.8965

3.90e5

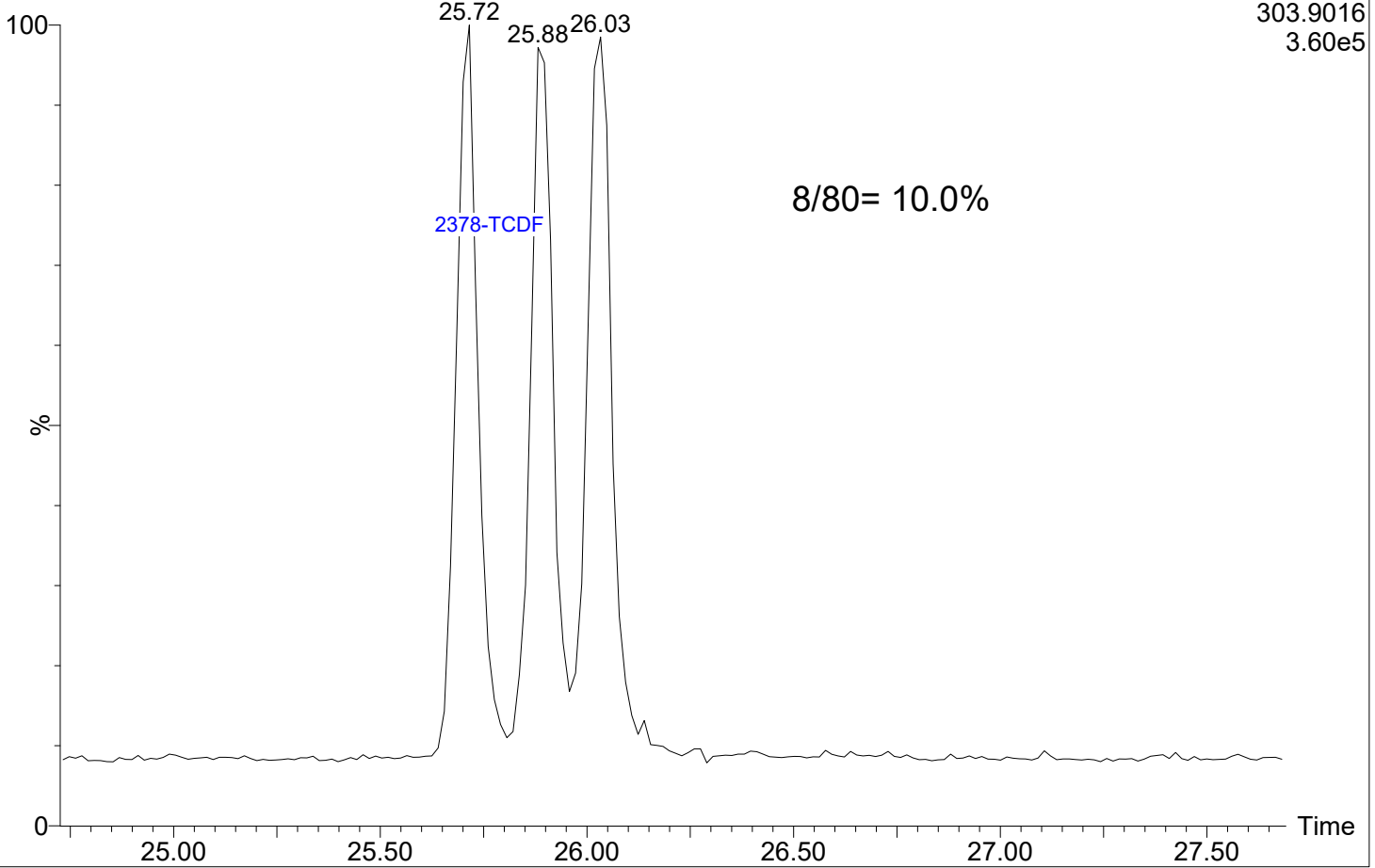


23020734

1: Voltage SIR 15 Channels EI+

303.9016

3.60e5





**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, LLC SDG: 22L0473
 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: 22L0473
 Instrument .ID: AUTOSPEC01 Lab File ID: 23020703
 Date Analyzed: 02/07/23 Time Analyzed: 10:20
 Lab Sample ID: SLB0072-RES1 Sequence: SLB0072

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 11.4

3467-TCDF/2378-TCDF: 9.9

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0072-ICV1	CS3T1	23020702	02/07/2023	09:25
SLB0072-RES1	ISCT1	23020703	02/07/2023	10:20
BLA0079-BLK1	Blank	23020704	02/07/2023	11:09
BLA0079-BS1	LCS	23020705	02/07/2023	11:58
BLA0079-SRM1	Reference	23020706	02/07/2023	12:53
SLB0072-CCV1	CS3T2	23020712	02/07/2023	18:03
SLB0072-RES2	ISCT2	23020713	02/07/2023	18:57
22L0473-11	LDW21-IT632A	23020720	02/08/2023	00:46
SLB0072-CCV2	CS3T3	23020721	02/08/2023	01:35
SLB0072-RES3	ISCT3	23020722	02/08/2023	02:29
SLB0072-CCV3	CS3T4	23020733	02/08/2023	11:35
SLB0072-RES4	ISCT4	23020734	02/08/2023	12:29



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, LLC SDG: 22L0473
 Instrument .ID: AUTOSPEC01 Lab File ID: 23020722
 Date Analyzed: 02/08/23 Time Analyzed: 02:29
 Lab Sample ID: SLB0072-RES3 Sequence: SLB0072

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 10

3467-TCDF/2378-TCDF: 5

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0072-ICV1	CS3T1	23020702	02/07/2023	09:25
SLB0072-RES1	ISCT1	23020703	02/07/2023	10:20
BLA0079-BLK1	Blank	23020704	02/07/2023	11:09
BLA0079-BS1	LCS	23020705	02/07/2023	11:58
BLA0079-SRM1	Reference	23020706	02/07/2023	12:53
SLB0072-CCV1	CS3T2	23020712	02/07/2023	18:03
SLB0072-RES2	ISCT2	23020713	02/07/2023	18:57
22L0473-11	LDW21-IT632A	23020720	02/08/2023	00:46
SLB0072-CCV2	CS3T3	23020721	02/08/2023	01:35
SLB0072-RES3	ISCT3	23020722	02/08/2023	02:29
SLB0072-CCV3	CS3T4	23020733	02/08/2023	11:35
SLB0072-RES4	ISCT4	23020734	02/08/2023	12:29



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, LLC SDG: 22L0473
 Instrument .ID: AUTOSPEC01 Lab File ID: 23020734
 Date Analyzed: 02/08/23 Time Analyzed: 12:29
 Lab Sample ID: SLB0072-RES4 Sequence: SLB0072

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 13.5

3467-TCDF/2378-TCDF: 10

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLB0072-ICV1	CS3T1	23020702	02/07/2023	09:25
SLB0072-RES1	ISCT1	23020703	02/07/2023	10:20
BLA0079-BLK1	Blank	23020704	02/07/2023	11:09
BLA0079-BS1	LCS	23020705	02/07/2023	11:58
BLA0079-SRM1	Reference	23020706	02/07/2023	12:53
SLB0072-CCV1	CS3T2	23020712	02/07/2023	18:03
SLB0072-RES2	ISCT2	23020713	02/07/2023	18:57
22L0473-11	LDW21-IT632A	23020720	02/08/2023	00:46
SLB0072-CCV2	CS3T3	23020721	02/08/2023	01:35
SLB0072-RES3	ISCT3	23020722	02/08/2023	02:29
SLB0072-CCV3	CS3T4	23020733	02/08/2023	11:35
SLB0072-RES4	ISCT4	23020734	02/08/2023	12:29



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

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: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SLB0072

Instrument: AUTOSPEC01

Calibration: GB00010

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3T1	SLB0072-ICV1	23020702	NA	02/07/23 09:25
ISCT1	SLB0072-RES1	23020703	NA	02/07/23 10:20
Blank	BLA0079-BLK1	23020704	Solid	02/07/23 11:09
LCS	BLA0079-BS1	23020705	Solid	02/07/23 11:58
Reference	BLA0079-SRM1	23020706	Solid	02/07/23 12:53
CS3T2	SLB0072-CCV1	23020712	NA	02/07/23 18:03
ISCT2	SLB0072-RES2	23020713	NA	02/07/23 18:57
LDW21-IT632A	22L0473-11	23020720	Solid	02/08/23 00:46
CS3T3	SLB0072-CCV2	23020721	NA	02/08/23 01:35
ISCT3	SLB0072-RES3	23020722	NA	02/08/23 02:29
CS3T4	SLB0072-CCV3	23020733	NA	02/08/23 11:35
ISCT4	SLB0072-RES4	23020734	NA	02/08/23 12:29



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SLB0026

Instrument: AUTOSPEC01

Sample ID: SLB0026-ICV1

Calibration: GB00010

File ID: 23020102

Analyzed: 02/01/23 10:37

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:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0473</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-SCV1</u>	Calibration:	<u>GB00010</u>
File ID:	<u>23020110</u>	Analyzed:	<u>02/01/23 20:23</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	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:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0473</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLB0072</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SLB0072-ICV1</u>	Calibration:	<u>GB00010</u>
File ID:	<u>23020702</u>	Analyzed:	<u>02/07/23 09:25</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	88.9	71 - 129	25.8665	25.87167	-0.0052	N/A	
13C12-2,3,7,8-TCDD	100.00	104	82 - 118	26.5015	26.51423	-0.0127	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	98.1	76 - 124	30.026	30.03173	-0.0057	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	97.9	77 - 123	31.363	31.36872	-0.0057	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	99.5	62 - 138	31.6193	31.62498	-0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	91.1	76 - 124	34.9728	34.9784	-0.0056	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	93.8	70 - 130	35.1177	35.11773	0.0000	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.2	73 - 127	35.9757	35.97562	0.0001	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	91.3	74 - 126	37.0005	37.00233	-0.0018	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	101	85 - 115	36.087	36.09812	-0.0111	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	99.9	85 - 115	36.1983	36.21508	-0.0168	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	83.2	78 - 122	38.8388	38.84072	-0.0019	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	84.7	77 - 123	41.0893	41.09488	-0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	87.4	72 - 128	40.343	40.3447	-0.0017	N/A	
13C12-OCDD	200.00	81.7	48 - 152	45.1015	45.10738	-0.0059	N/A	
37Cl4-2,3,7,8-TCDD	10.000	88.7	0 - 200	26.5318	26.53683	-0.0050	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0473</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLB0072</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BLA0079-SRM1</u>	Calibration:	<u>GB00010</u>
File ID:	<u>23020706</u>	Analyzed:	<u>02/07/23 12:53</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	81.1	24 - 169	25.8817	25.87167	0.0100	N/A	
13C12-2,3,7,8-TCDD	200.00	91.9	25 - 164	26.5167	26.51423	0.0025	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	94.6	24 - 185	30.0373	30.03173	0.0056	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	93.5	21 - 178	31.3743	31.36872	0.0056	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	94.5	25 - 181	31.6307	31.62498	0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	91.0	26 - 152	34.9952	34.9784	0.0168	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	93.1	26 - 123	35.1288	35.11773	0.0111	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	92.7	28 - 136	36.0092	35.97562	0.0336	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	93.3	29 - 147	37.0118	37.00233	0.0095	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	99.5	32 - 141	36.1205	36.09812	0.0224	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	100	28 - 130	36.232	36.21508	0.0169	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	86.8	28 - 143	38.8502	38.84072	0.0095	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	90.0	26 - 138	41.1007	41.09488	0.0058	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	90.1	23 - 140	40.3542	40.3447	0.0095	N/A	
13C12-OCDD	400.00	80.8	17 - 157	45.12	45.10738	0.0126	N/A	
37C14-2,3,7,8-TCDD	80.000	74.9	35 - 197	26.5468	26.53683	0.0100	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0473</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SLB0072</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>22L0473-11</u>	Calibration:	<u>GB00010</u>
File ID:	<u>23020720</u>	Analyzed:	<u>02/08/23 00:46</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	199.61	57.4	24 - 169	25.8665	25.87167	-0.0052	N/A	
13C12-2,3,7,8-TCDD	199.61	71.9	25 - 164	26.5015	26.51423	-0.0127	N/A	
13C12-1,2,3,7,8-PeCDF	199.61	68.7	24 - 185	30.026	30.03173	-0.0057	N/A	
13C12-2,3,4,7,8-PeCDF	199.61	68.4	21 - 178	31.363	31.36872	-0.0057	N/A	
13C12-1,2,3,7,8-PeCDD	199.61	74.3	25 - 181	31.6082	31.62498	-0.0168	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.61	68.5	26 - 152	34.9838	34.9784	0.0054	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.61	67.6	26 - 123	35.1177	35.11773	0.0000	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.61	67.4	28 - 136	35.9867	35.97562	0.0111	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.61	67.0	29 - 147	37.0117	37.00233	0.0094	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.61	77.7	32 - 141	36.1092	36.09812	0.0111	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.61	73.6	28 - 130	36.2207	36.21508	0.0056	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.61	58.2	28 - 143	38.8502	38.84072	0.0095	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.61	59.4	26 - 138	41.1007	41.09488	0.0058	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.61	63.5	23 - 140	40.3542	40.3447	0.0095	N/A	
13C12-OCDD	399.23	59.0	17 - 157	45.1292	45.10738	0.0218	N/A	
37C14-2,3,7,8-TCDD	79.846	61.1	35 - 197	26.5167	26.53683	-0.0201	N/A	

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

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
LDW21-IT632A 22L0473-11	07/12/21 09:28	12/09/22 16:40	01/09/23 15:50	546	365	02/08/23 00:46	29	365	*

* Indicates hold time exceedance.



**METHOD DETECTION
AND REPORTING LIMITS**
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 22L0473

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: 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}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}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:

<u>PRODUCT CODE</u>	<u>LOT NUMBER</u>
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 or contact us directly at 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:

¹³ C ₁₂ -2,3,7,8-TCDD	100
¹³ C ₁₂ -2,3,7,8-TCDF	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100
¹³ C ₁₂ -OCDD	200

Cleanup Standard:

³⁷ Cl ₄ -2,3,7,8-TCDD	10
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Internal Standards:

¹³ C ₁₂ -1,2,3,4-TCDD	100
¹³ C ₁₂ -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)

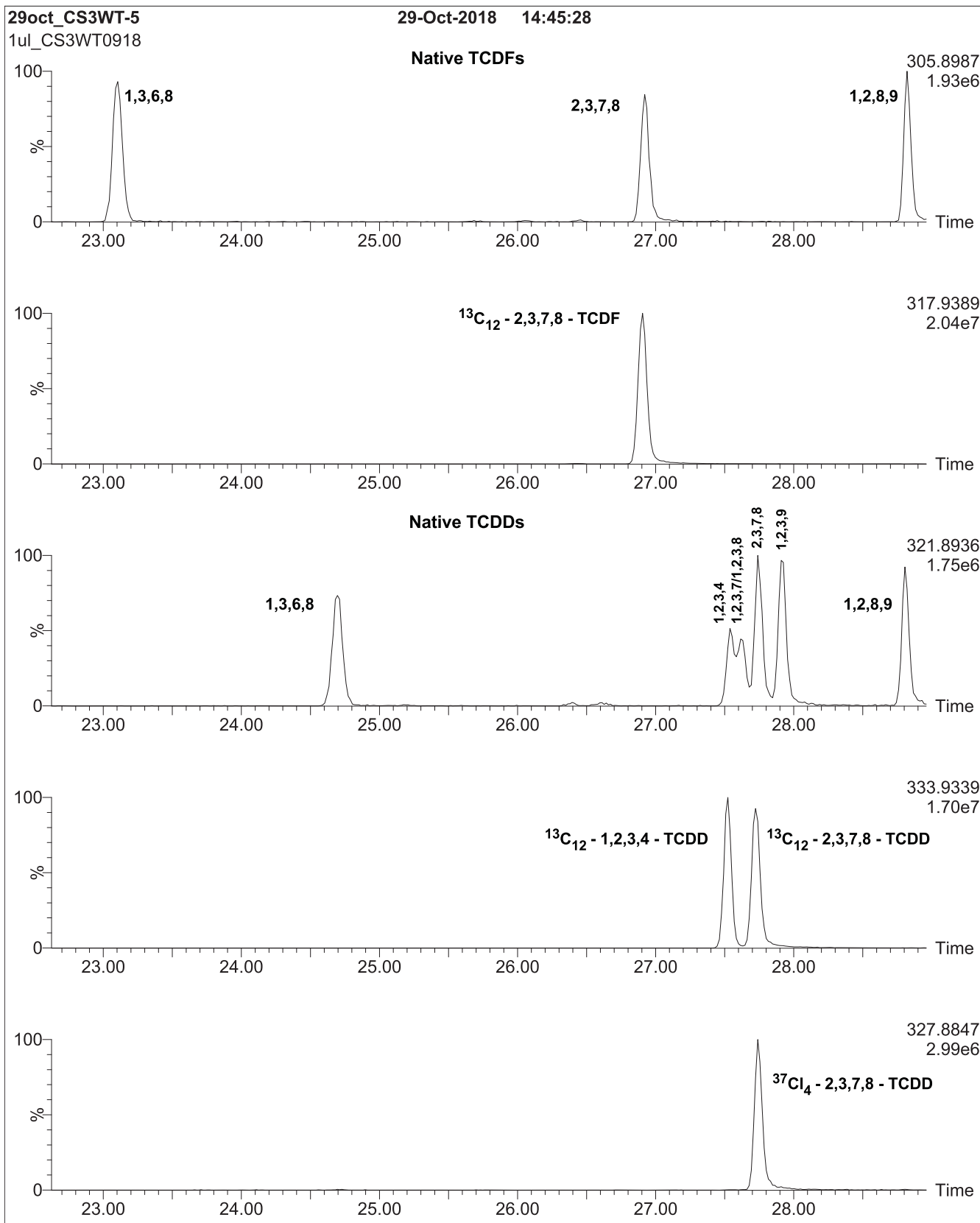


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

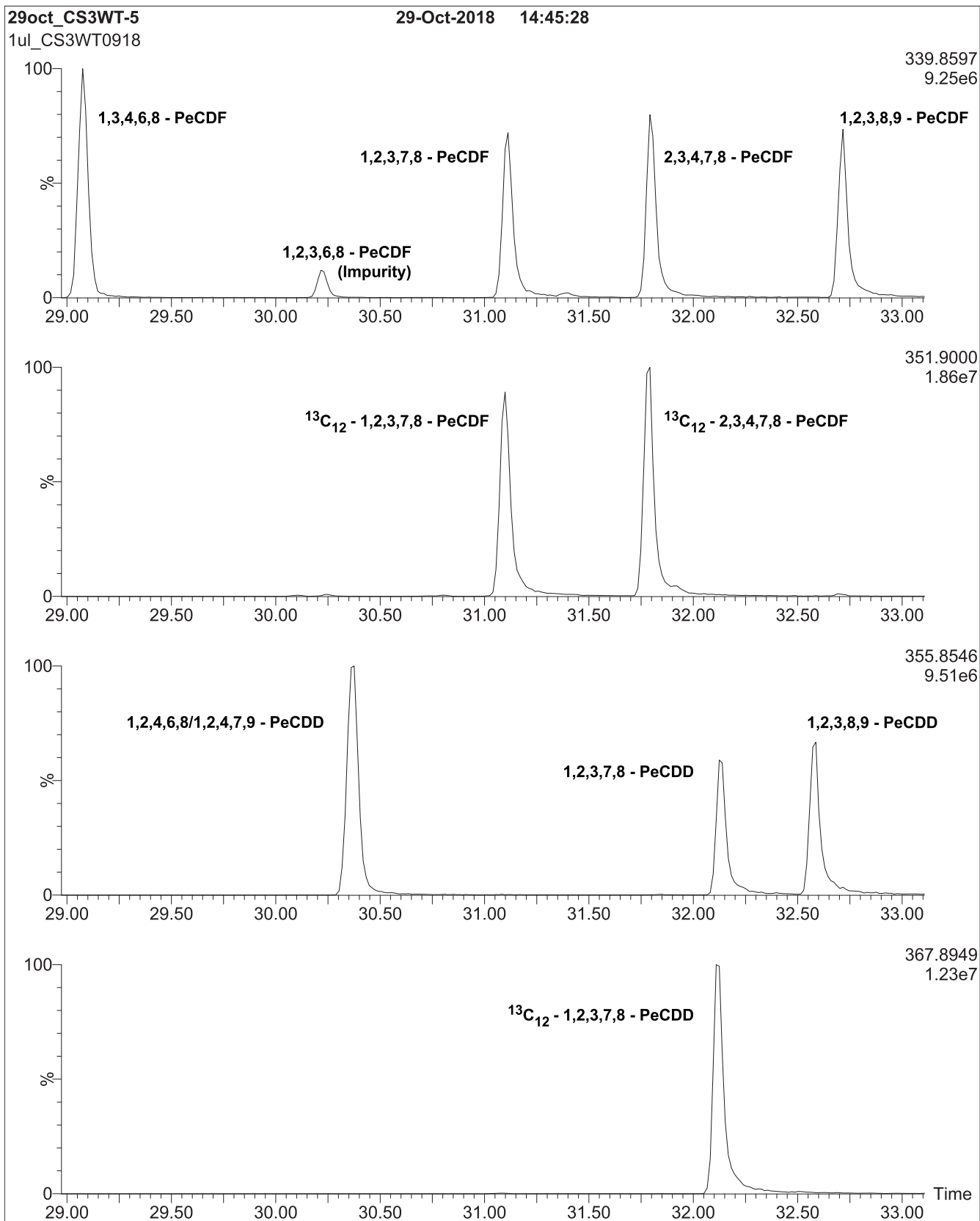


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

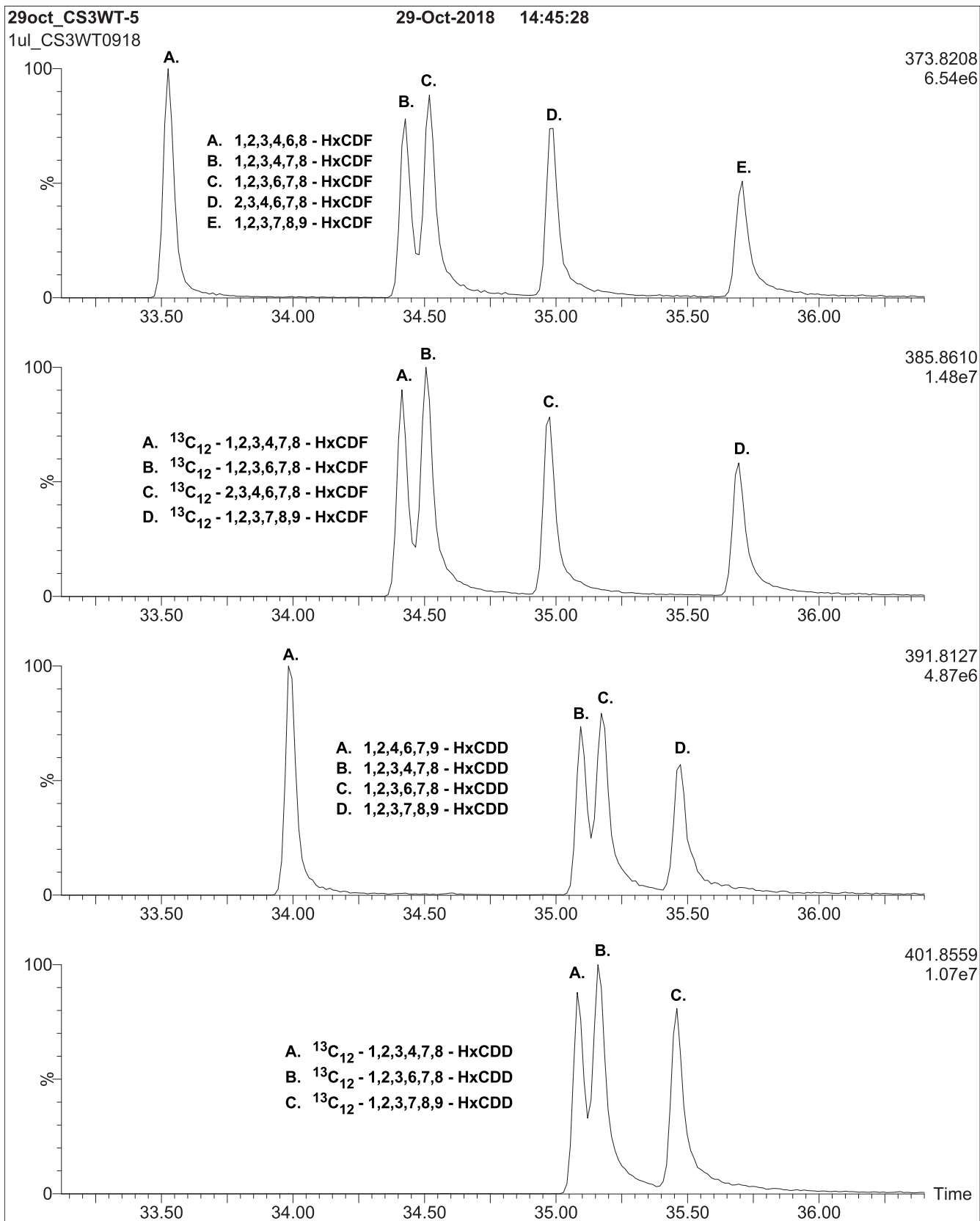


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

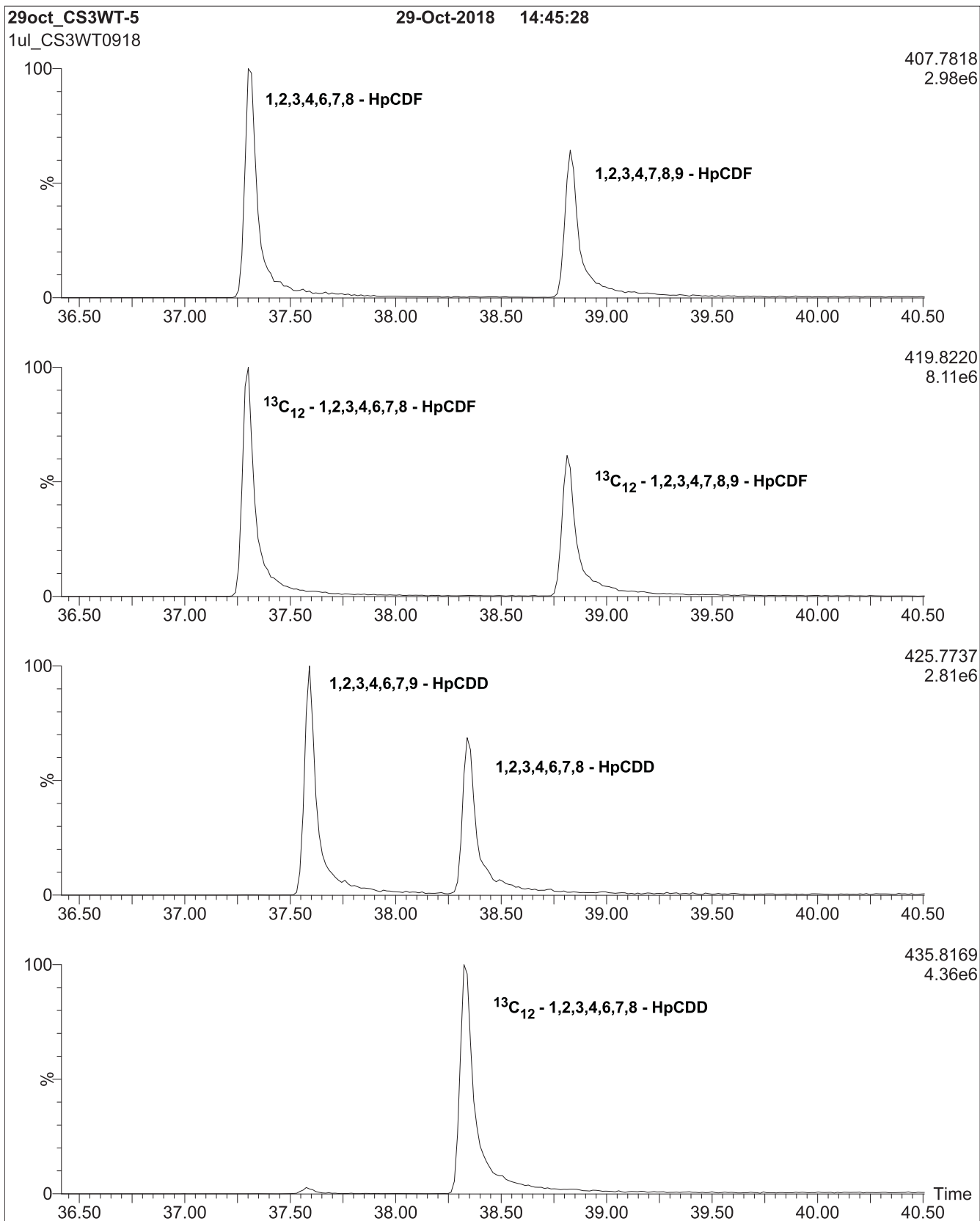
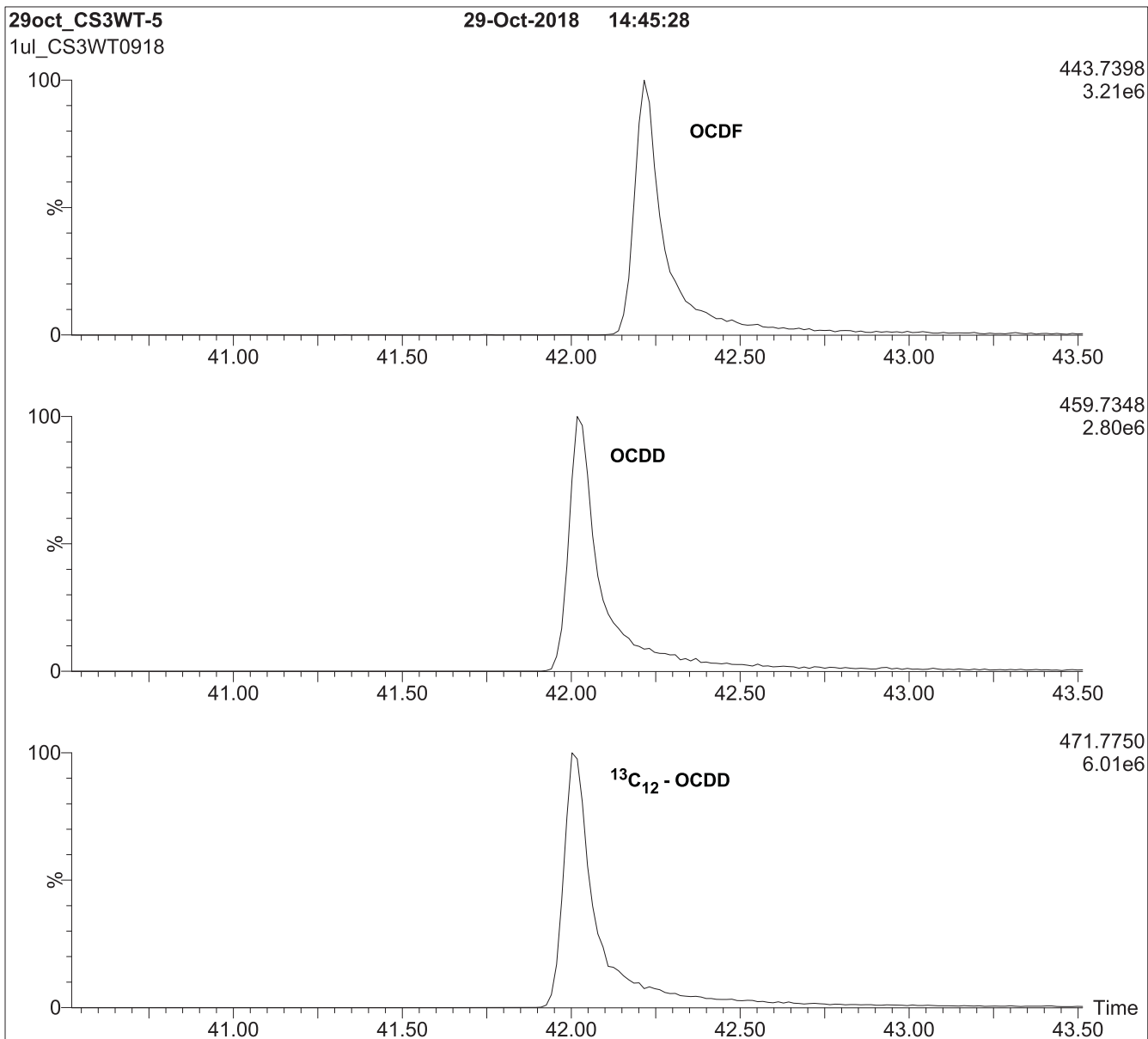


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)



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**

<u>PRODUCT CODES:</u>	EPA-1613CVS	<u>LOT NUMBERS:</u>	(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

<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/22/2019
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/24/2019
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/24/2026
<u>RECOMMENDED STORAGE:</u>	Store ampoules in a cool, dark place

I005456
1613 CS1 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 (¹²C₁₂) and mass-labelled (¹³C₁₂ and ³⁷Cl₄) 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 ¹³C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-³⁷Cl₄-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (³⁷Cl) 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 or contact us directly at 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
Native PCDDs and PCDFs:							
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
Labelled PCDDs and PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,7,8-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -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
¹³ C ₁₂ -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -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
¹³ C ₁₂ -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
³⁷ Cl ₄ -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)

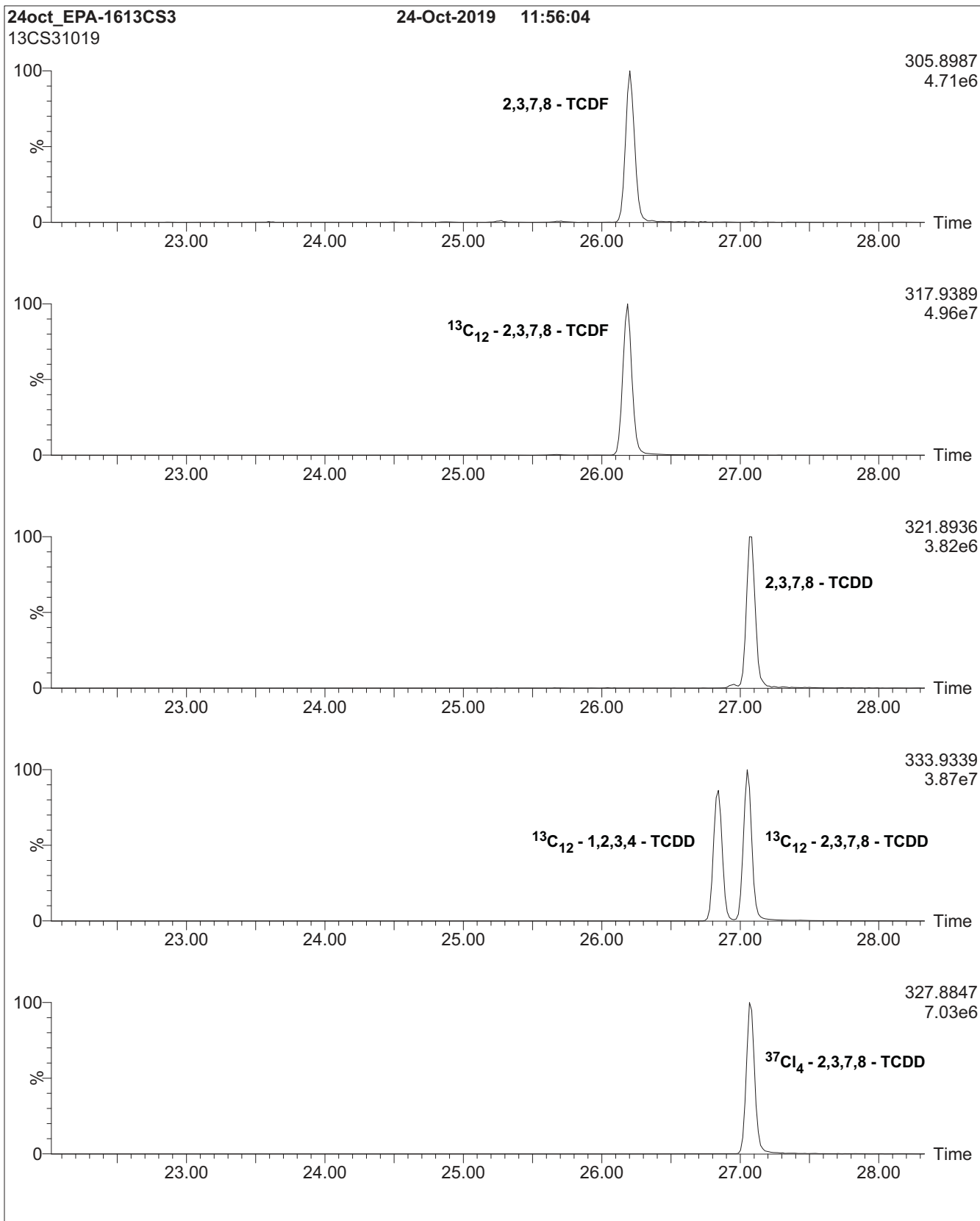


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

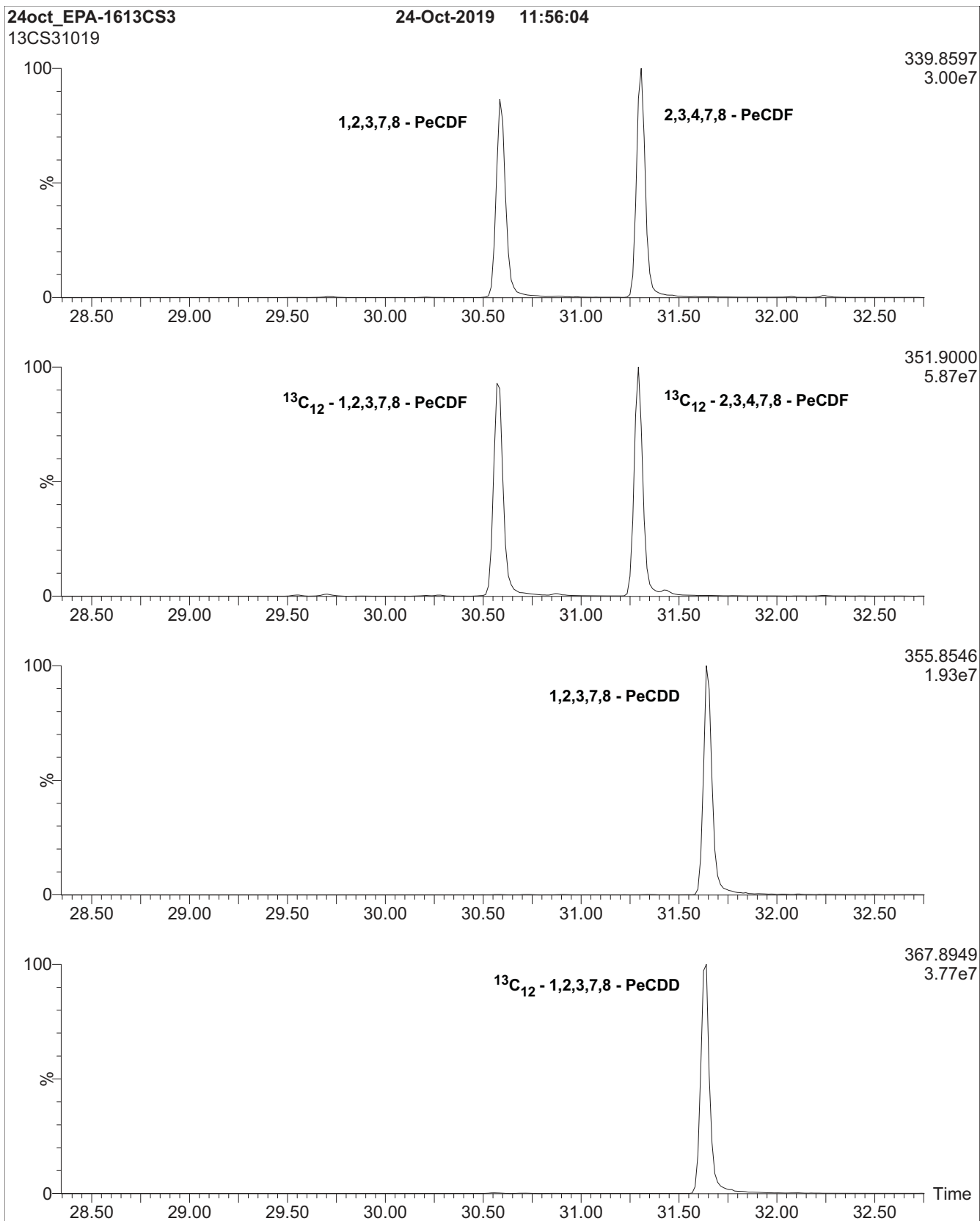


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

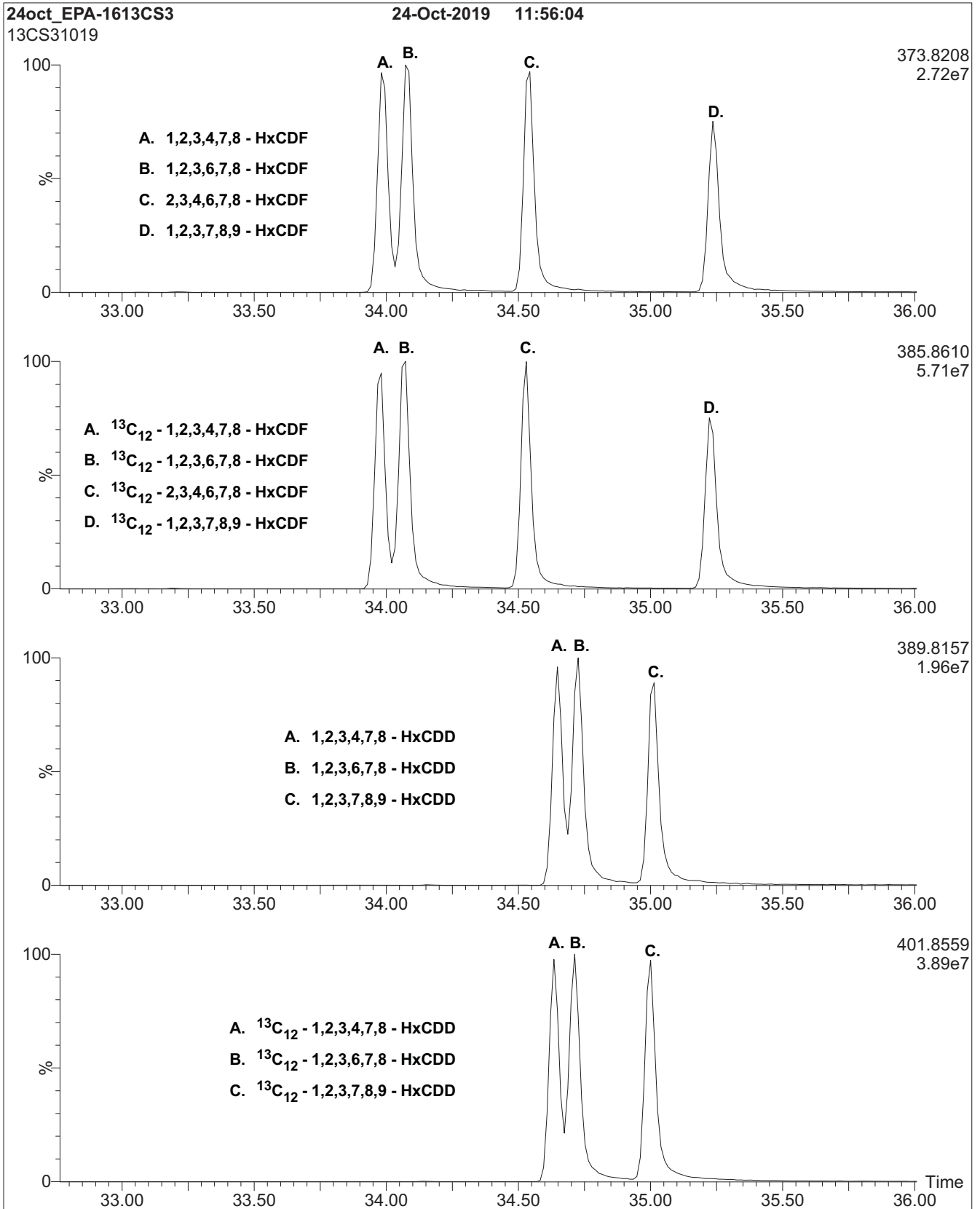


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

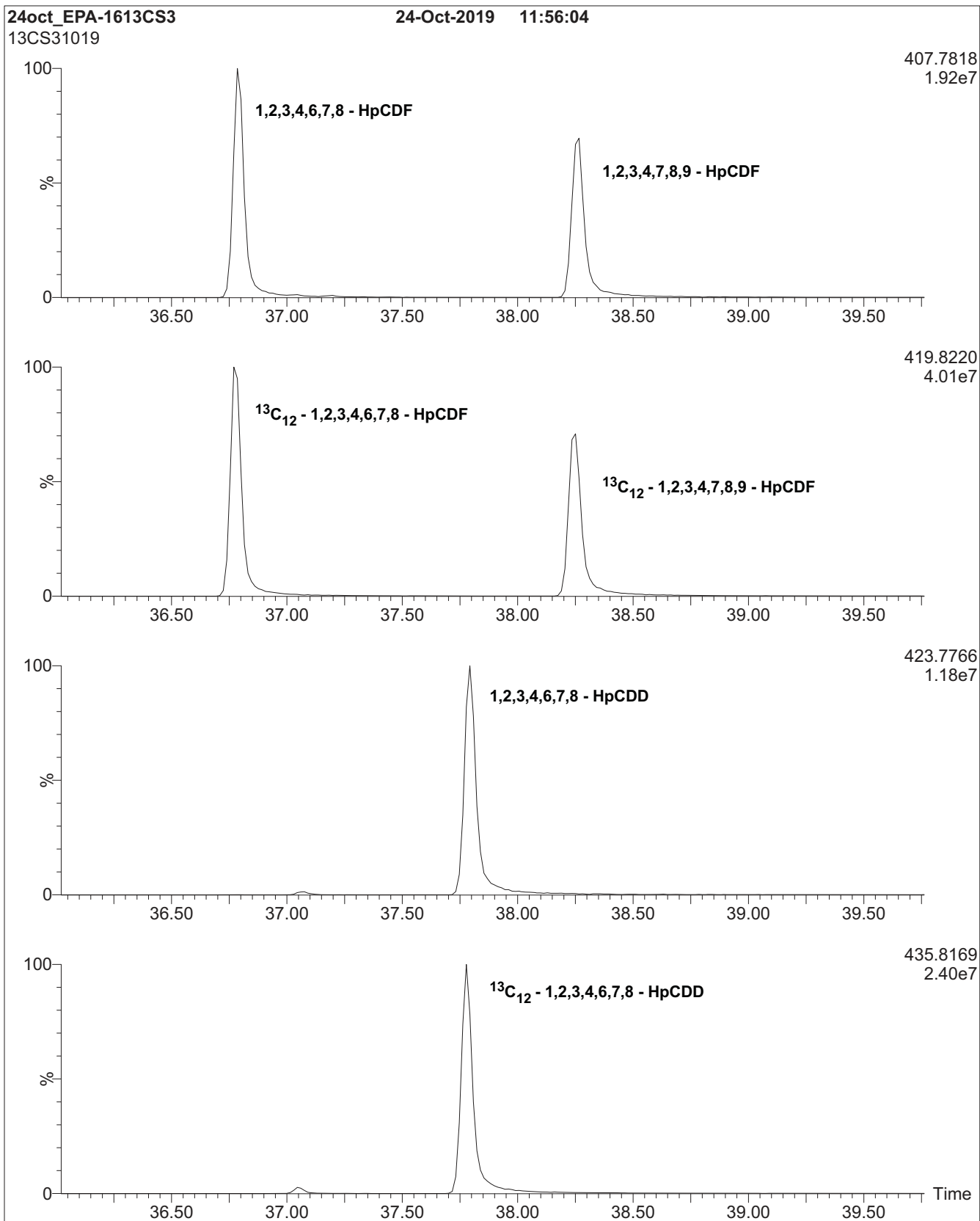
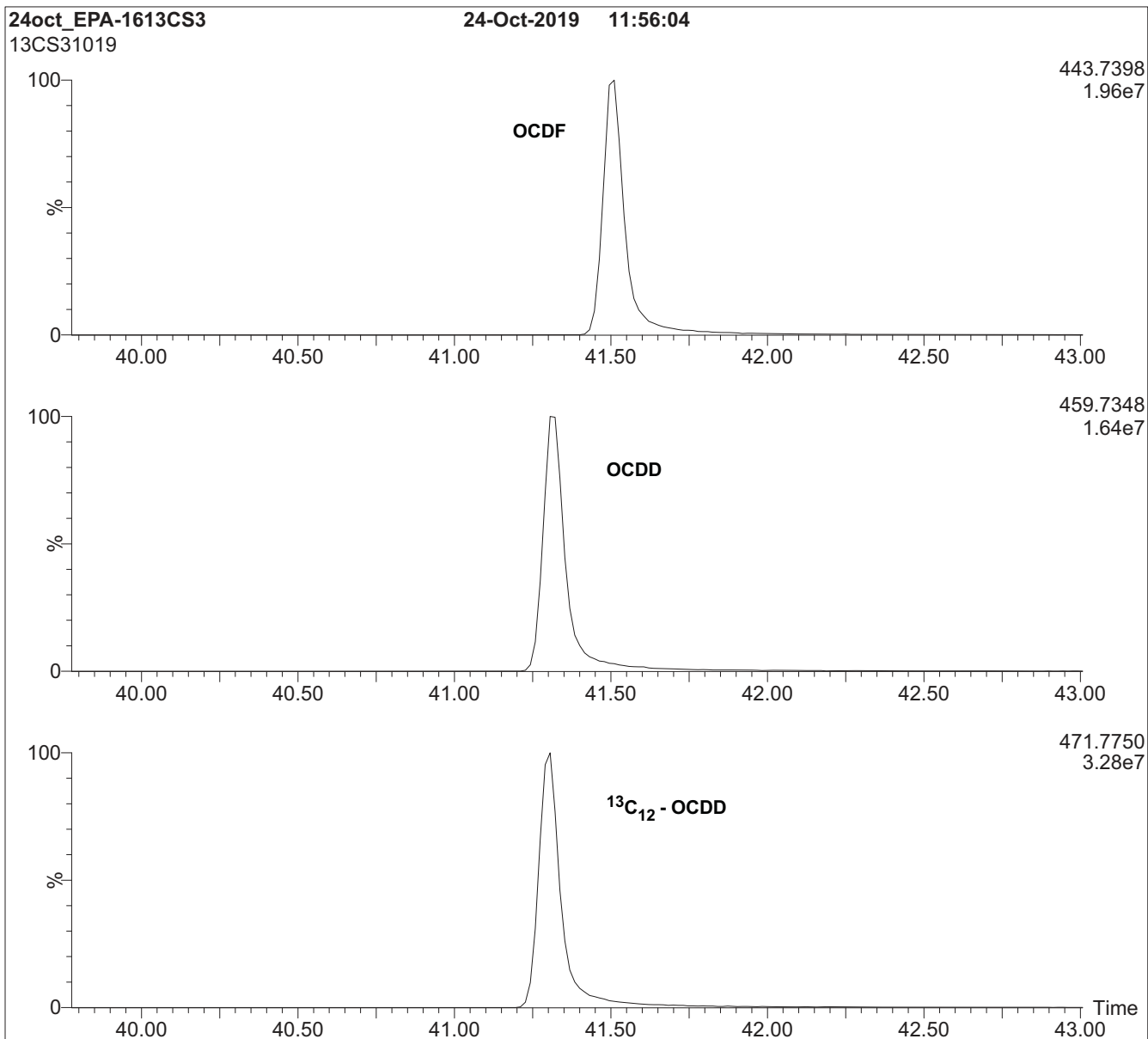


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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**

<u>PRODUCT CODES:</u>	EPA-1613CVS	<u>LOT NUMBERS:</u>	(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

<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/22/2019
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/24/2019
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/24/2026
<u>RECOMMENDED STORAGE:</u>	Store ampoules in a cool, dark place

1005457
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 (¹²C₁₂) and mass-labelled (¹³C₁₂ and ³⁷Cl₄) 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 ¹³C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-³⁷Cl₄-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (³⁷Cl) 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 or contact us directly at 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
Native PCDDs and PCDFs:							
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
Labelled PCDDs and PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,7,8-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -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
¹³ C ₁₂ -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -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
¹³ C ₁₂ -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
³⁷ Cl ₄ -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)

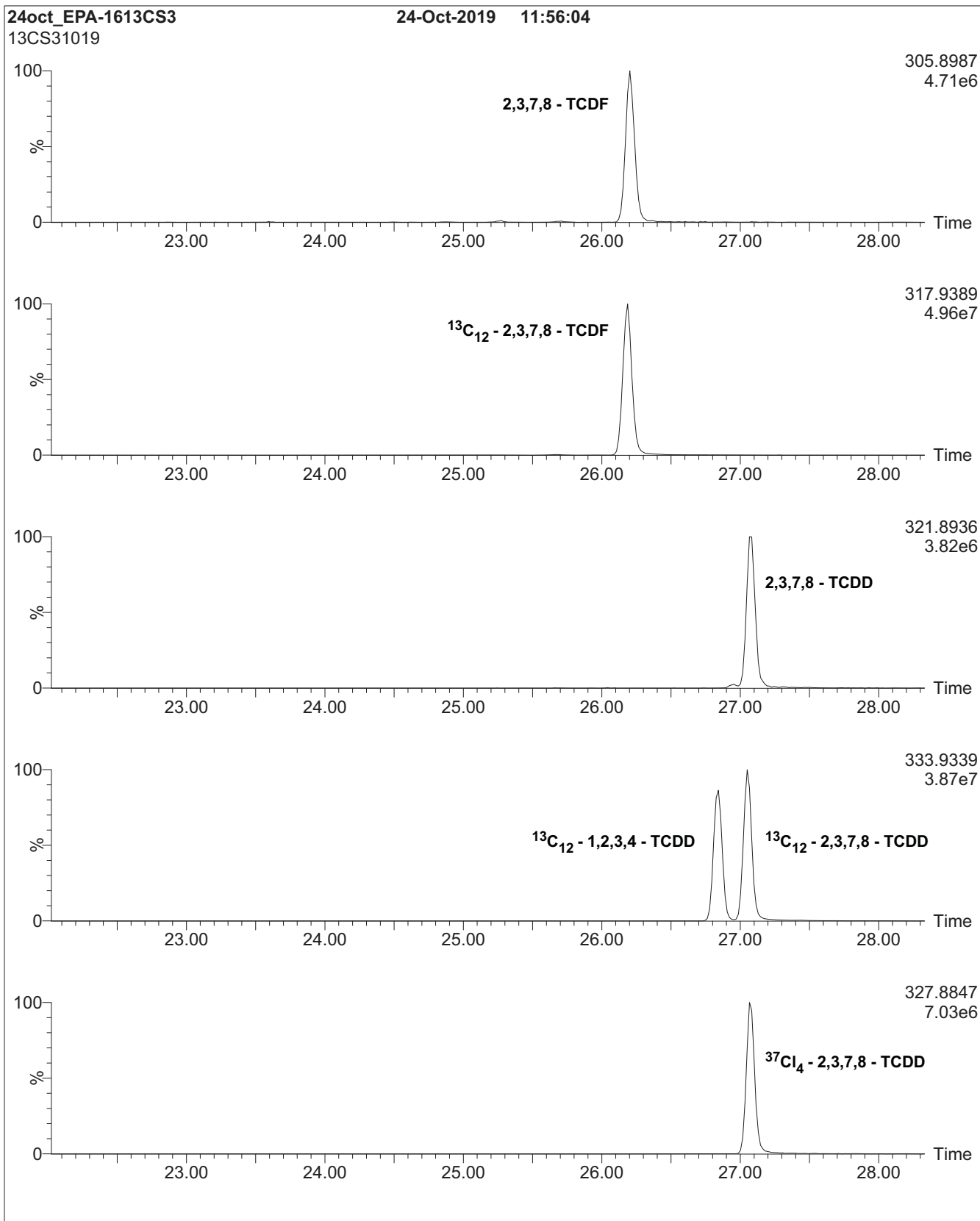


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

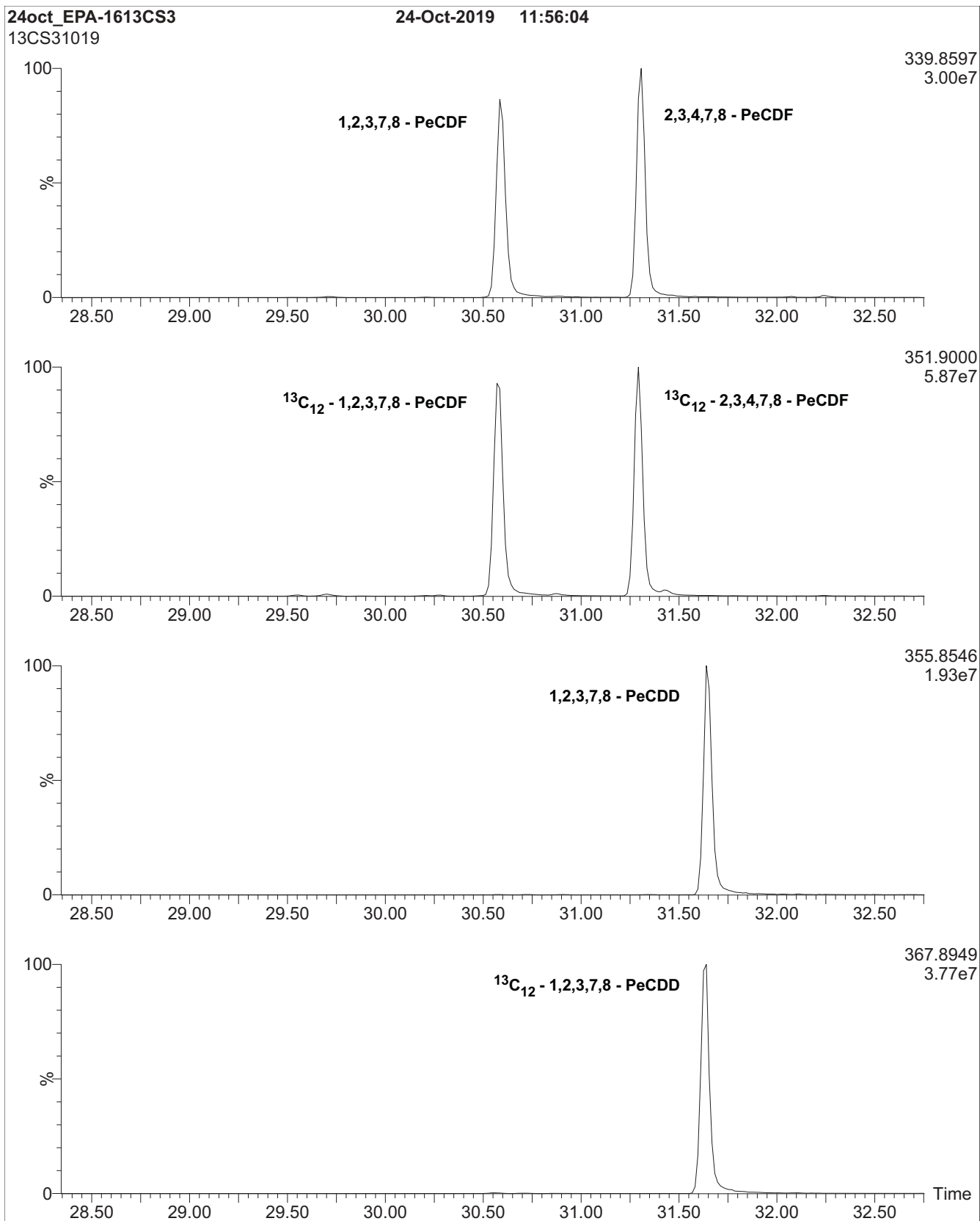


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

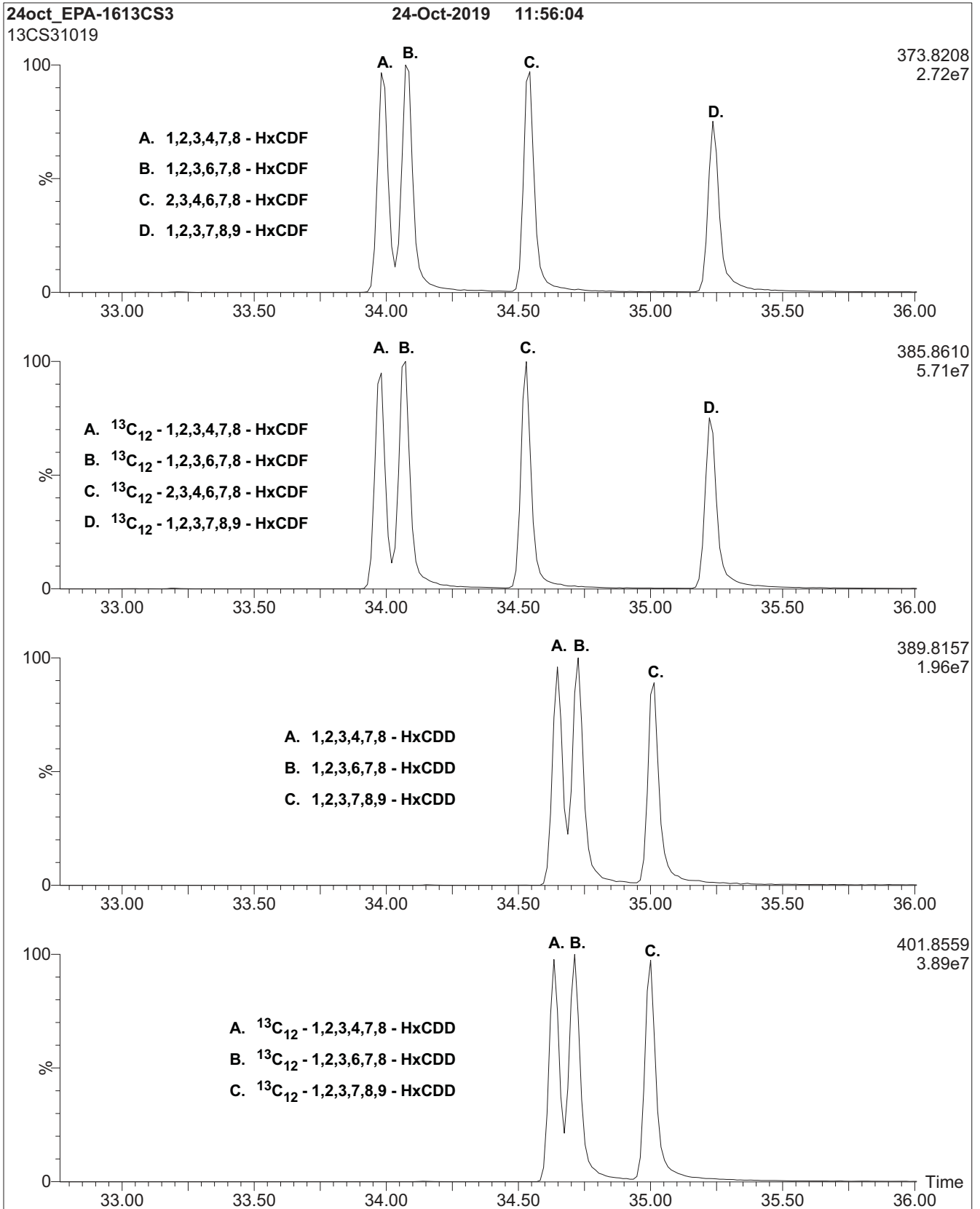


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

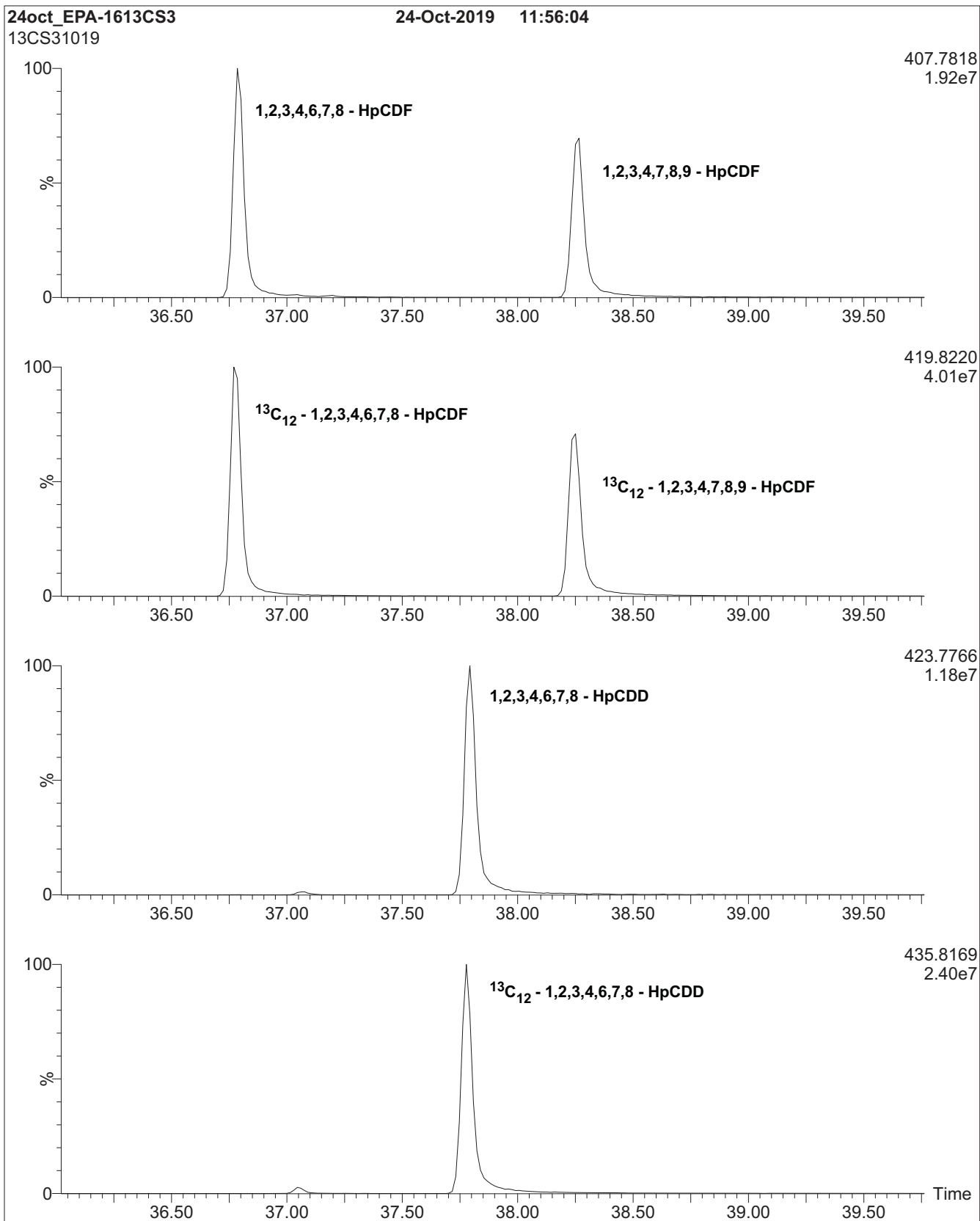
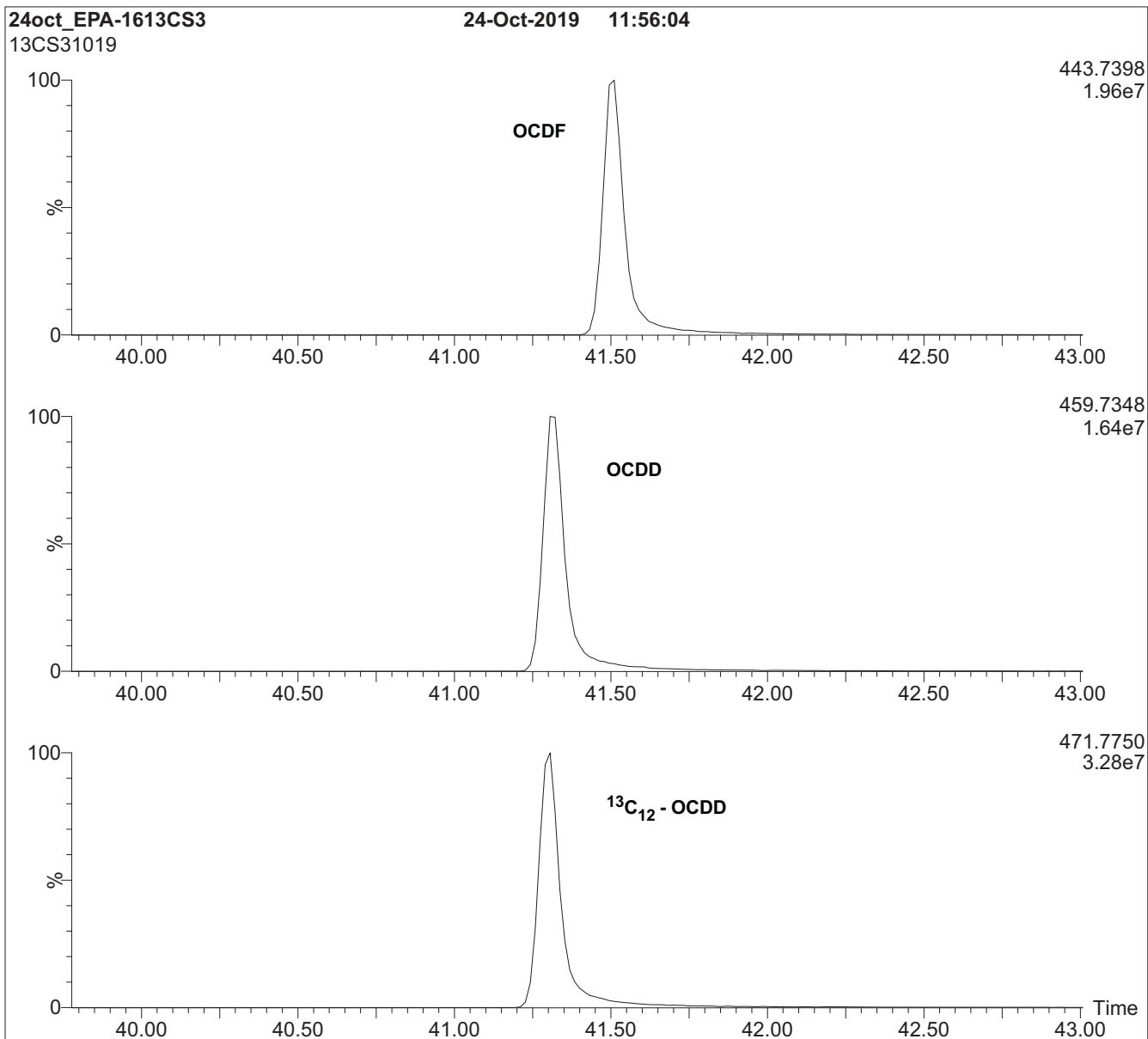


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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**

<u>PRODUCT CODES:</u>	EPA-1613CVS	<u>LOT NUMBERS:</u>	(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

<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/22/2019
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/24/2019
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/24/2026
<u>RECOMMENDED STORAGE:</u>	Store ampoules in a cool, dark place

<p>1005458</p> <p>1613 CS4 CAL STD</p> <p>Expires 10/24/2026</p> <p><i>Prepared By Joshua Rains 6/23/2020</i></p>
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DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native (¹²C₁₂) and mass-labelled (¹³C₁₂ and ³⁷Cl₄) 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 ¹³C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-³⁷Cl₄-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (³⁷Cl) 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 or contact us directly at 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
Native PCDDs and PCDFs:							
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
Labelled PCDDs and PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,7,8-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -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
¹³ C ₁₂ -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -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
¹³ C ₁₂ -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
³⁷ Cl ₄ -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)

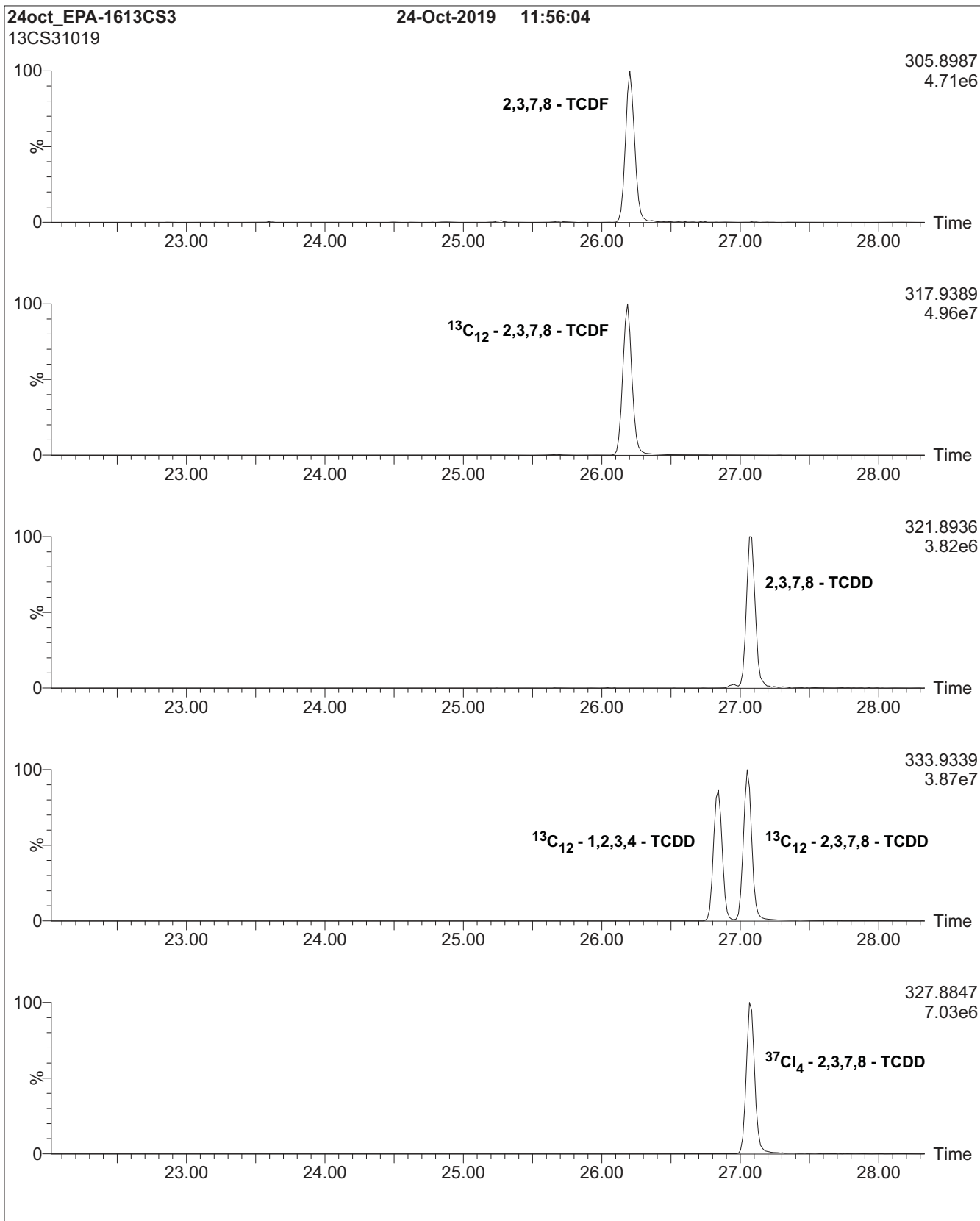


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

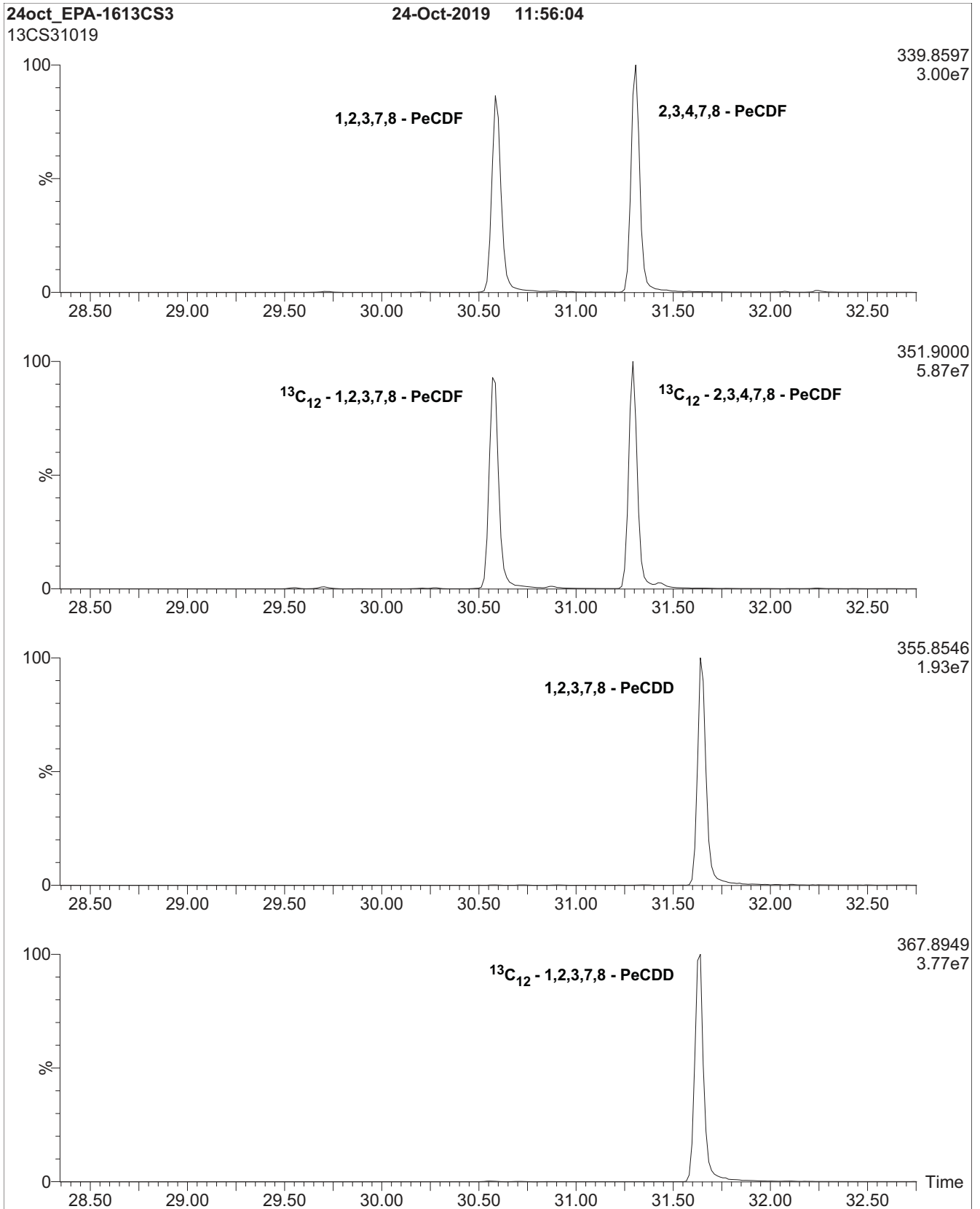


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

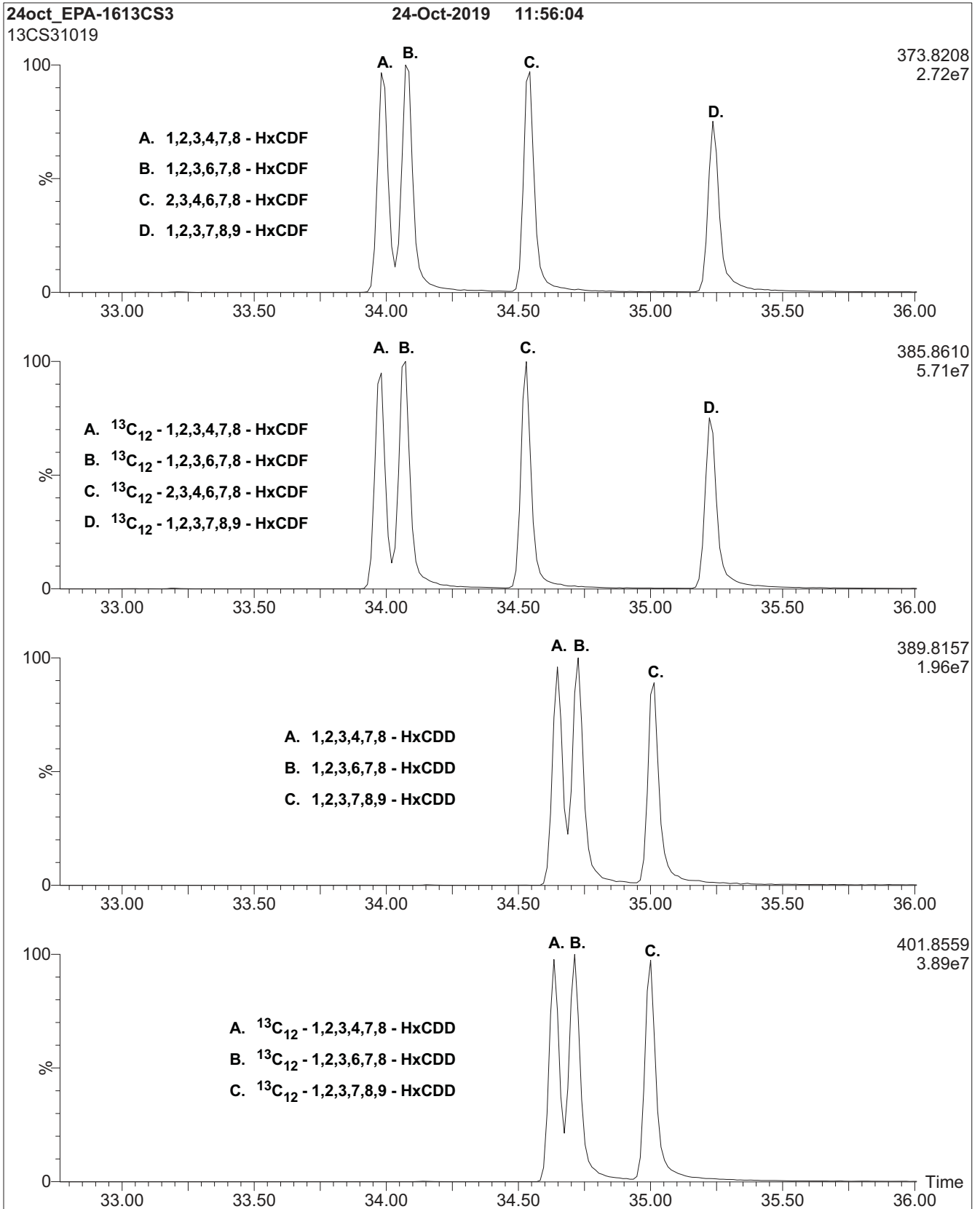


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

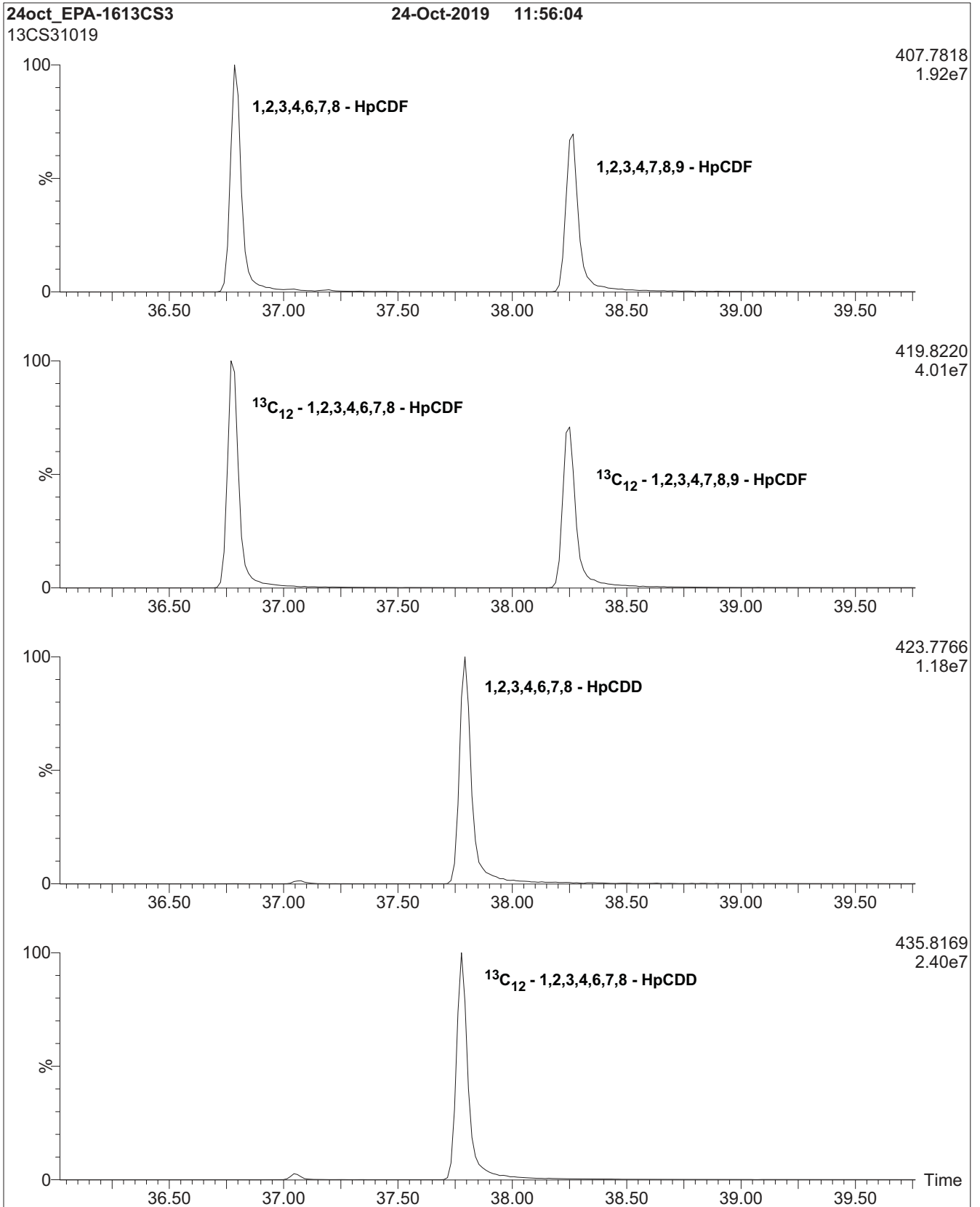
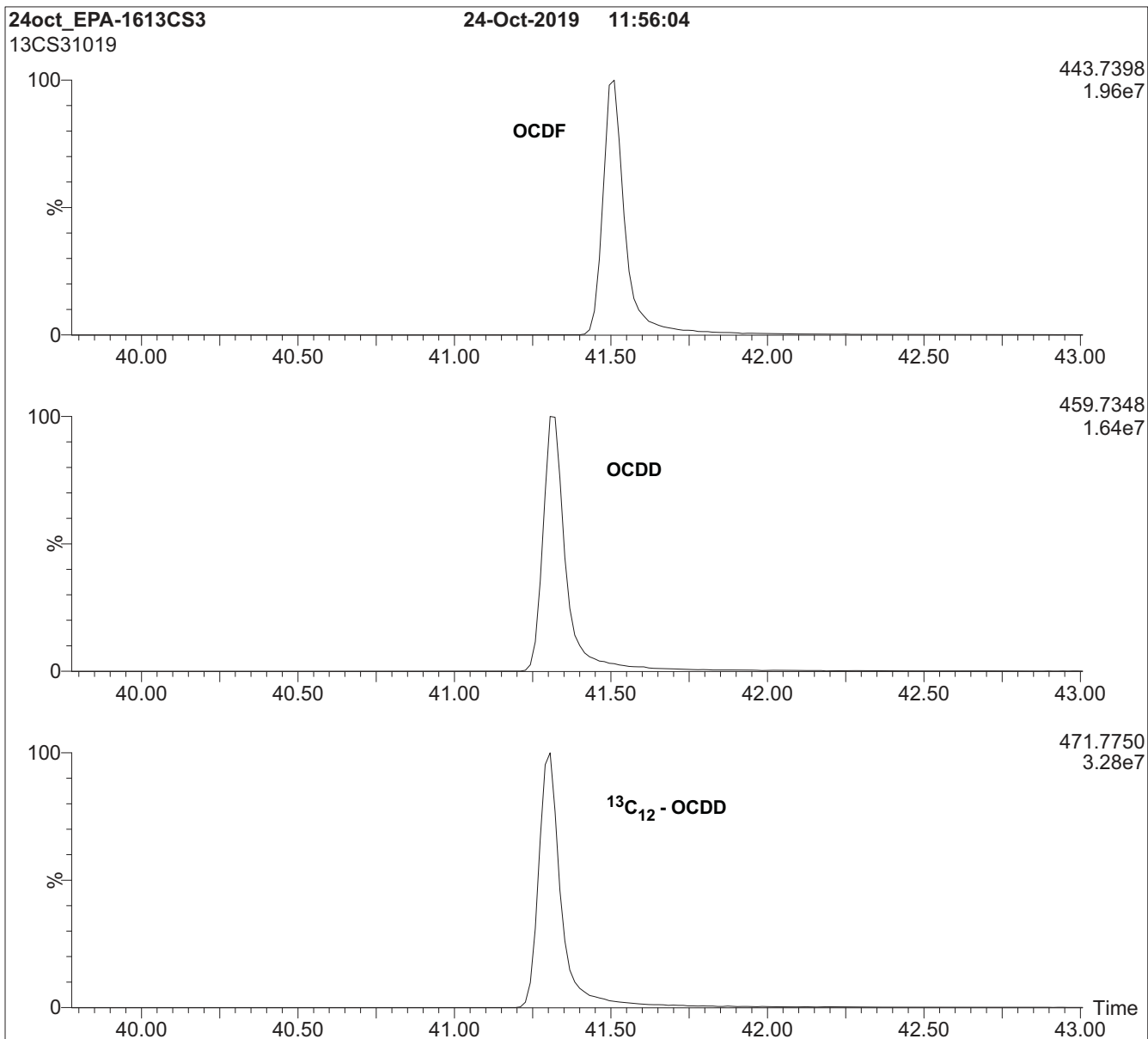


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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**

<u>PRODUCT CODES:</u>	EPA-1613CVS	<u>LOT NUMBERS:</u>	(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

<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/22/2019
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/24/2019
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/24/2026
<u>RECOMMENDED STORAGE:</u>	Store ampoules in a cool, dark place

I005459
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 (¹²C₁₂) and mass-labelled (¹³C₁₂ and ³⁷Cl₄) 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 ¹³C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-³⁷Cl₄-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (³⁷Cl) 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 or contact us directly at 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
Native PCDDs and PCDFs:							
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
Labelled PCDDs and PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,7,8-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -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
¹³ C ₁₂ -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -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
¹³ C ₁₂ -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
³⁷ Cl ₄ -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)

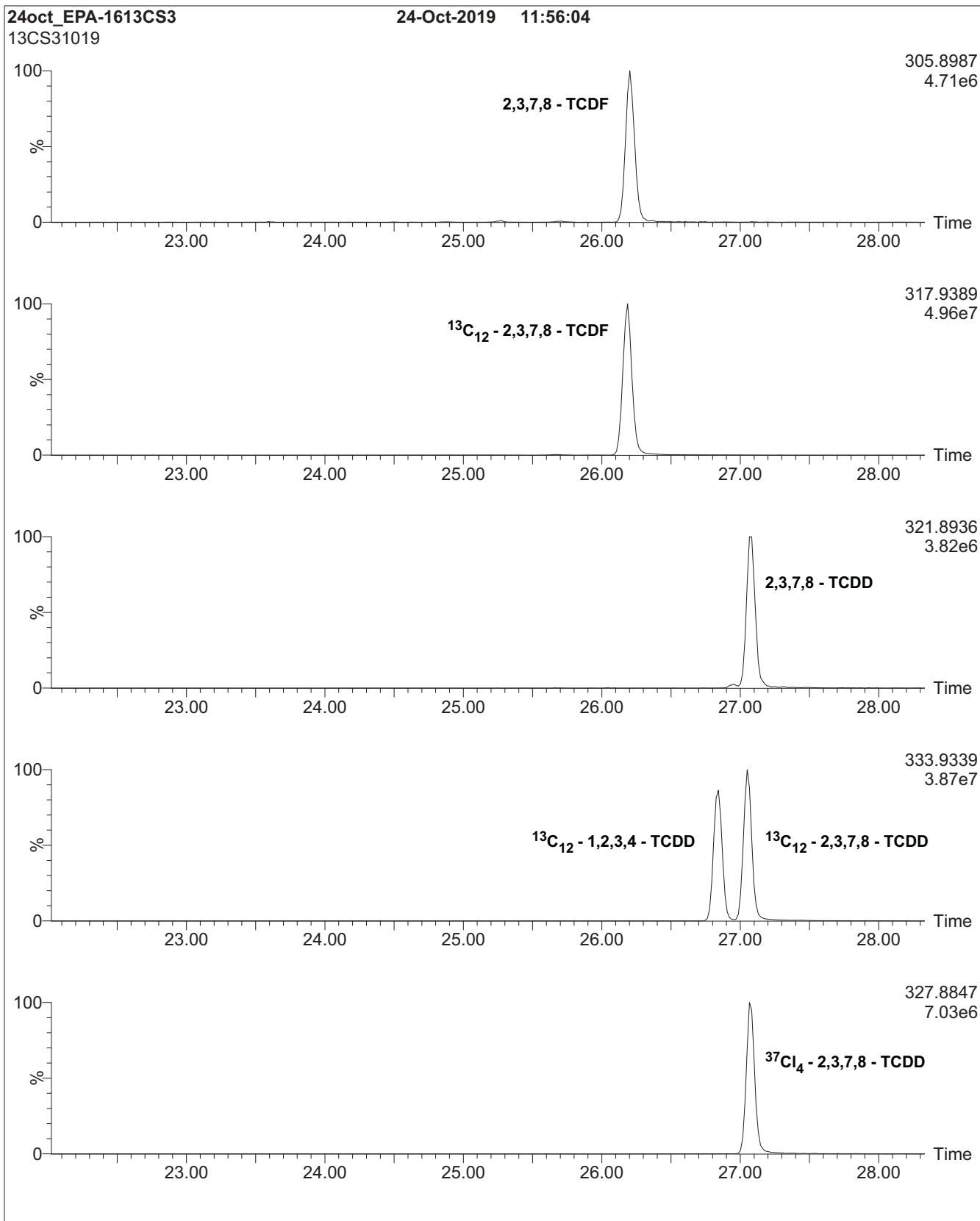


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

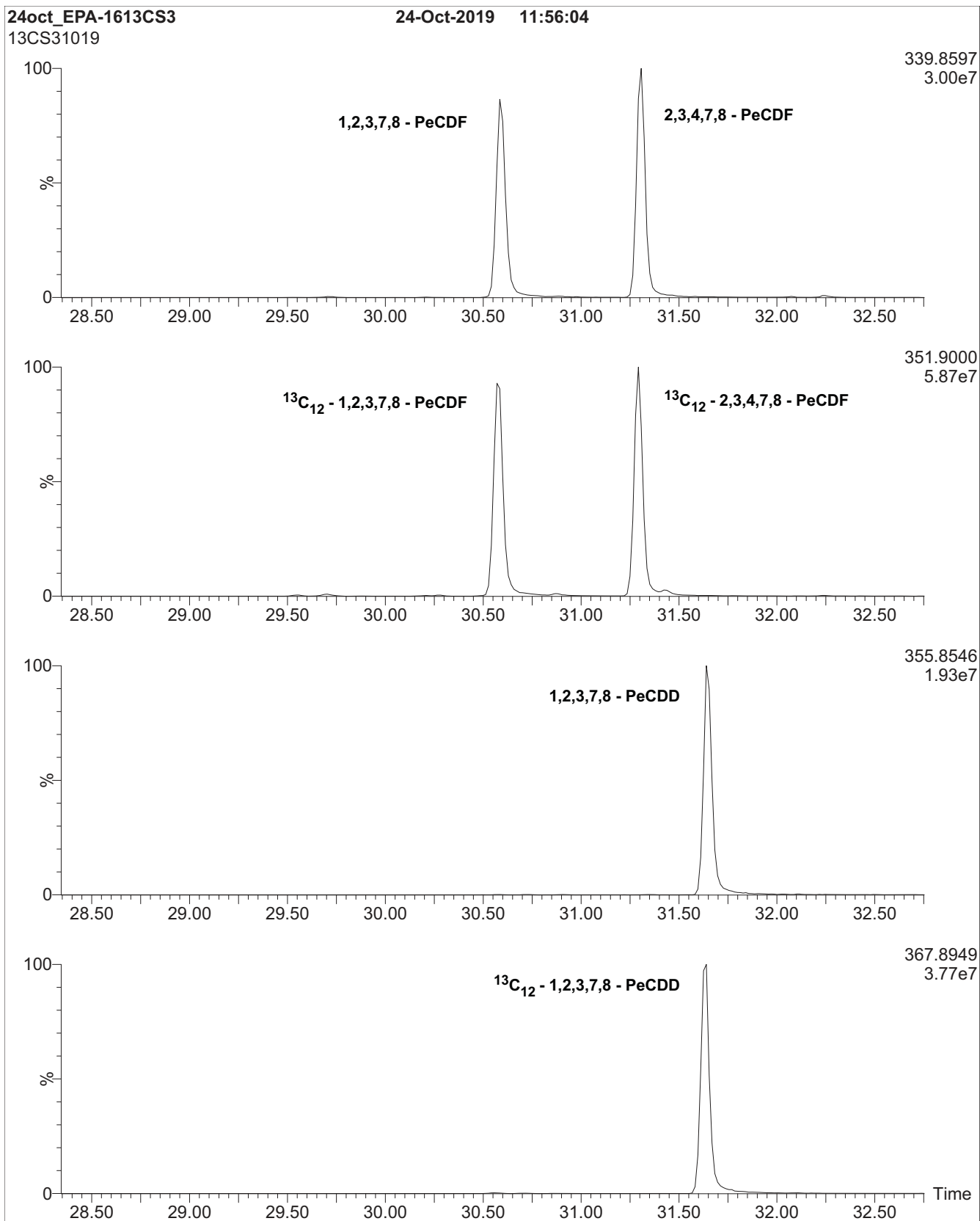


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

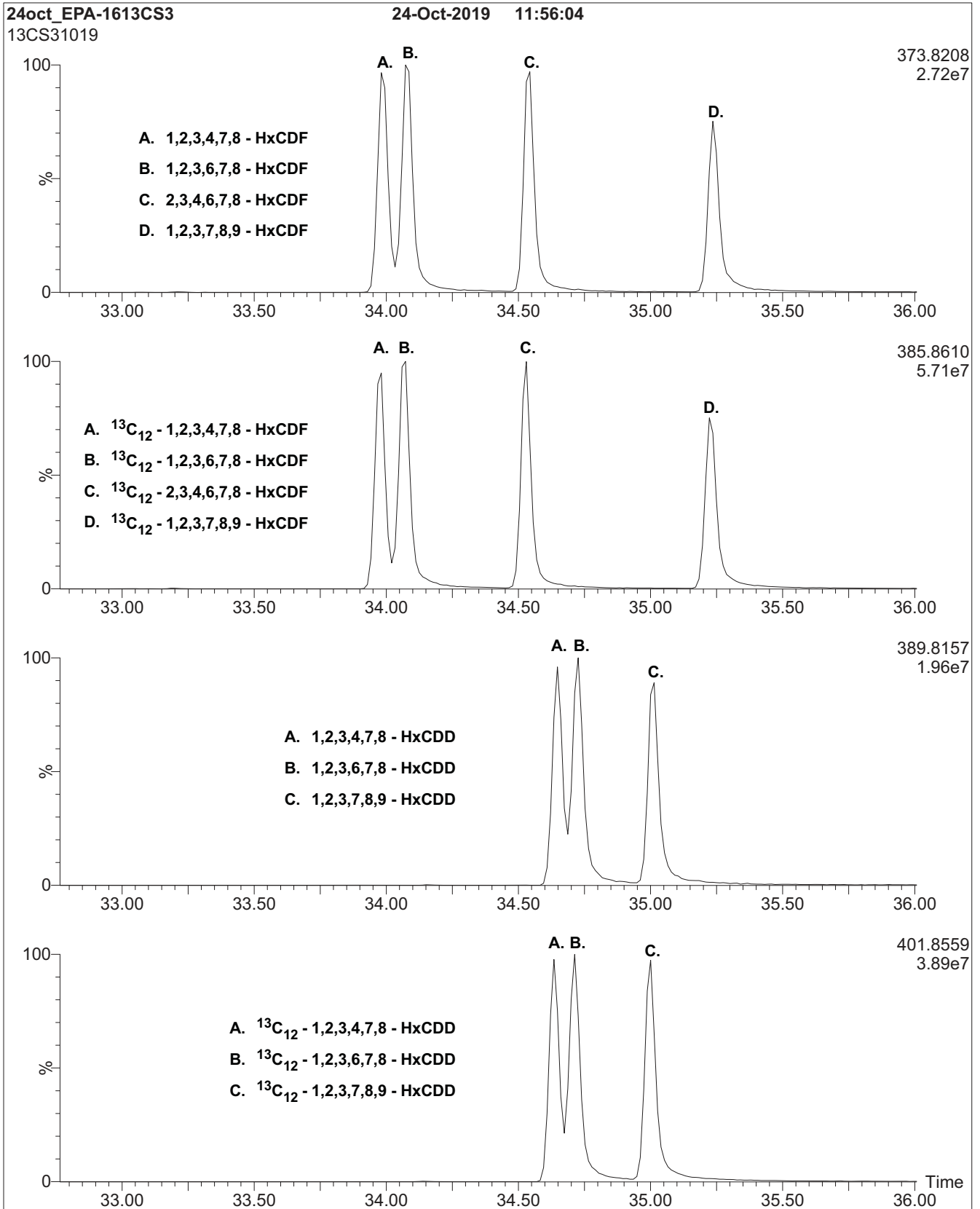


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

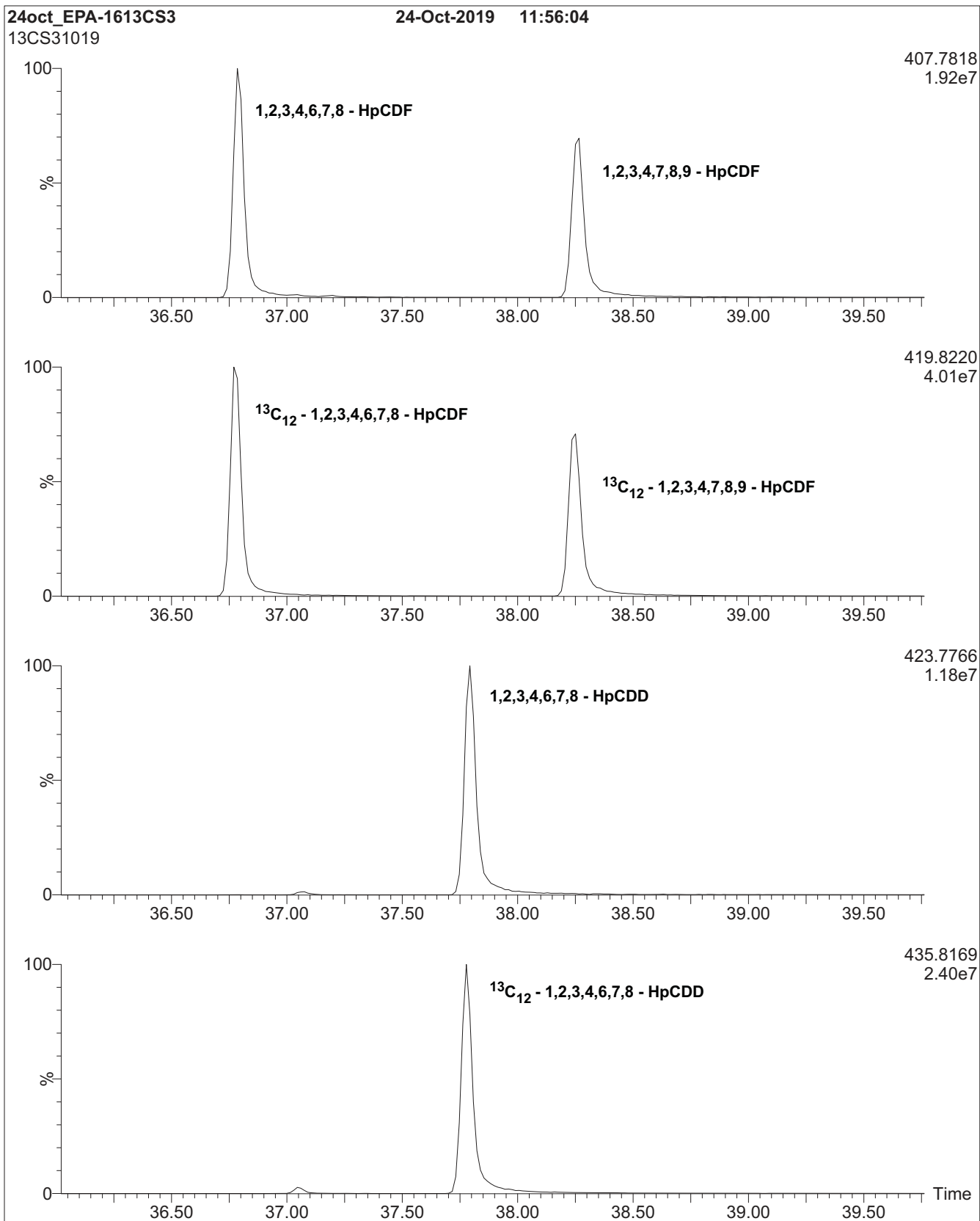
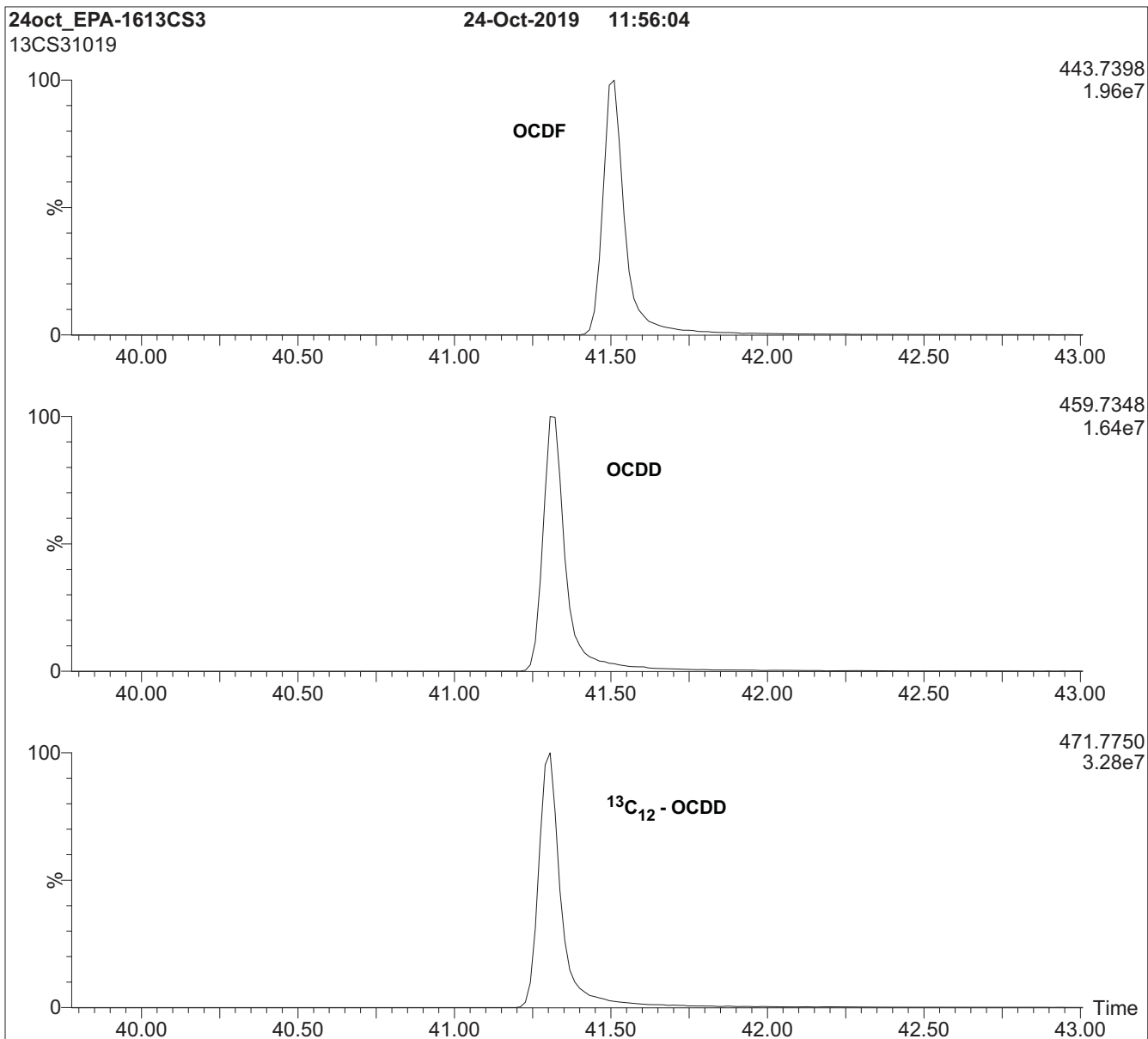


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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**

<u>PRODUCT CODES:</u>	EPA-1613CVS	<u>LOT NUMBERS:</u>	(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

<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/22/2019
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/24/2019
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/24/2026
<u>RECOMMENDED STORAGE:</u>	Store ampoules in a cool, dark place

I005460
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 (¹²C₁₂) and mass-labelled (¹³C₁₂ and ³⁷Cl₄) 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 ¹³C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-³⁷Cl₄-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (³⁷Cl) 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 or contact us directly at 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
Native PCDDs and PCDFs:							
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
Labelled PCDDs and PCDFs:							
¹³ C ₁₂ -2,3,7,8-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,7,8-TCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
¹³ C ₁₂ -OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
³⁷ Cl ₄ -2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
¹³ C ₁₂ -1,2,3,4-TCDD	100	100	100	100	100	100	100
¹³ C ₁₂ -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
¹³ C ₁₂ -2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
¹³ C ₁₂ -1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
¹³ C ₁₂ -2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
¹³ C ₁₂ -2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
¹³ C ₁₂ -1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
¹³ C ₁₂ -OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
³⁷ Cl ₄ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -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
¹³ C ₁₂ -OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
¹³ C ₁₂ -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
¹³ C ₁₂ -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
³⁷ Cl ₄ -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)

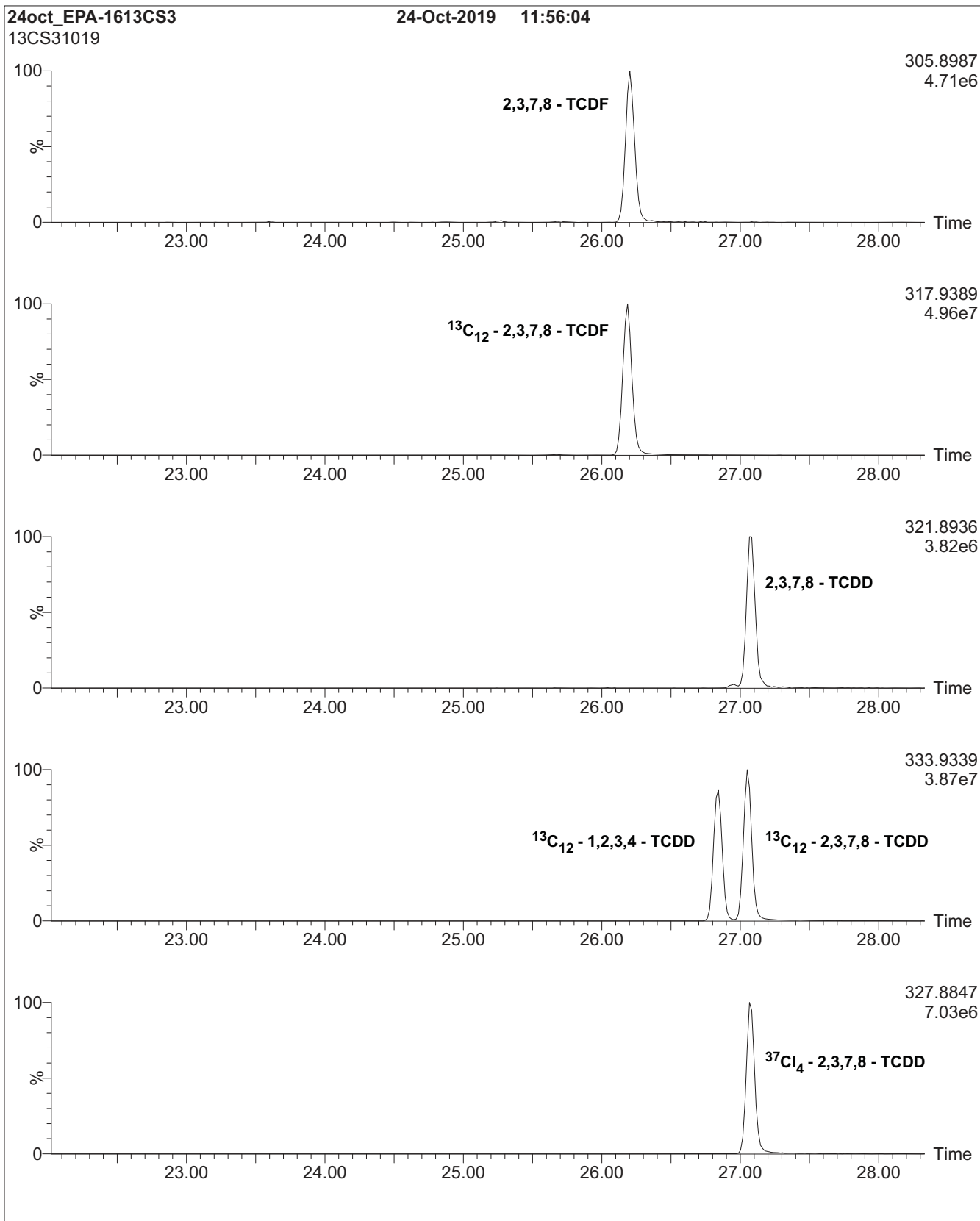


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

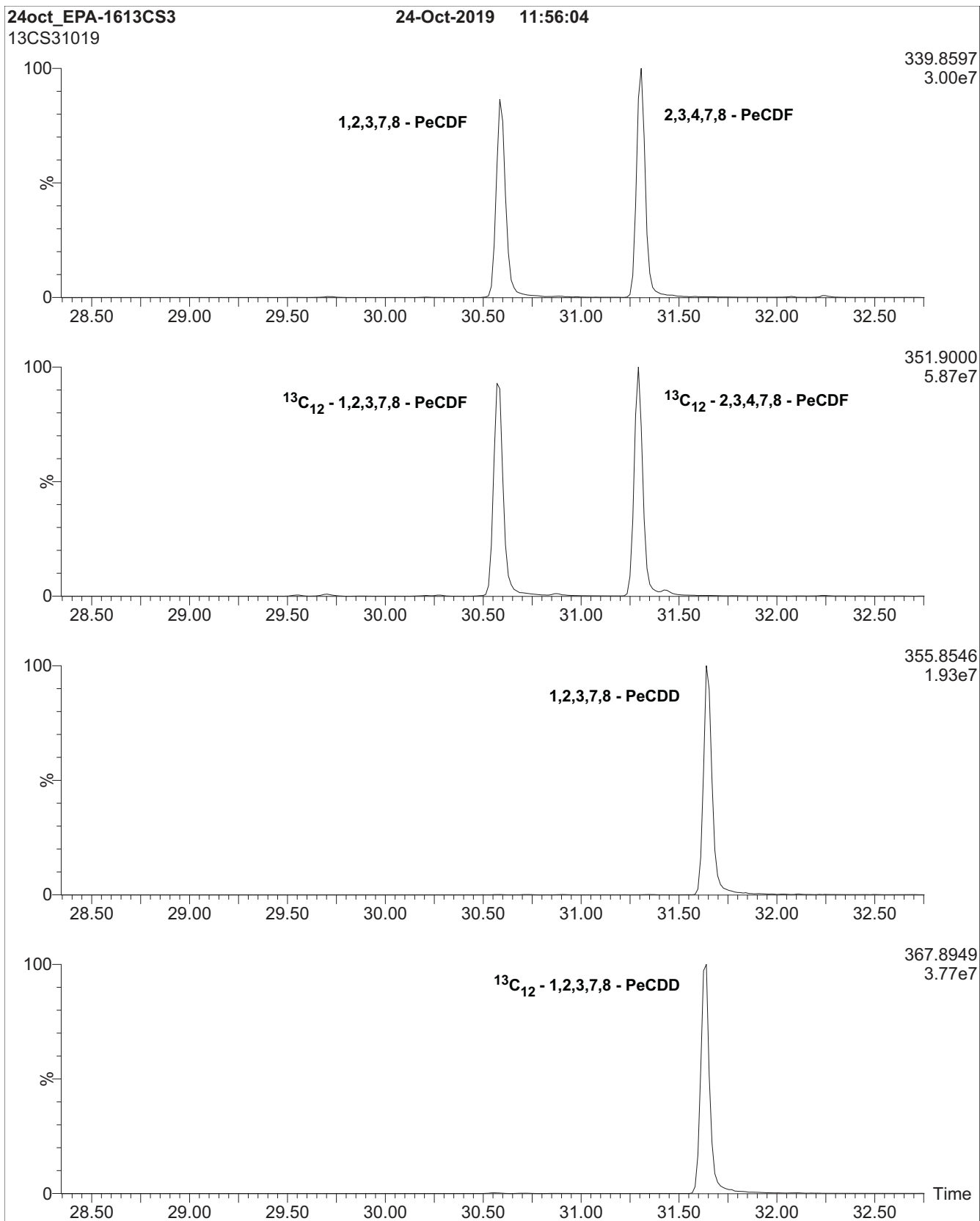


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

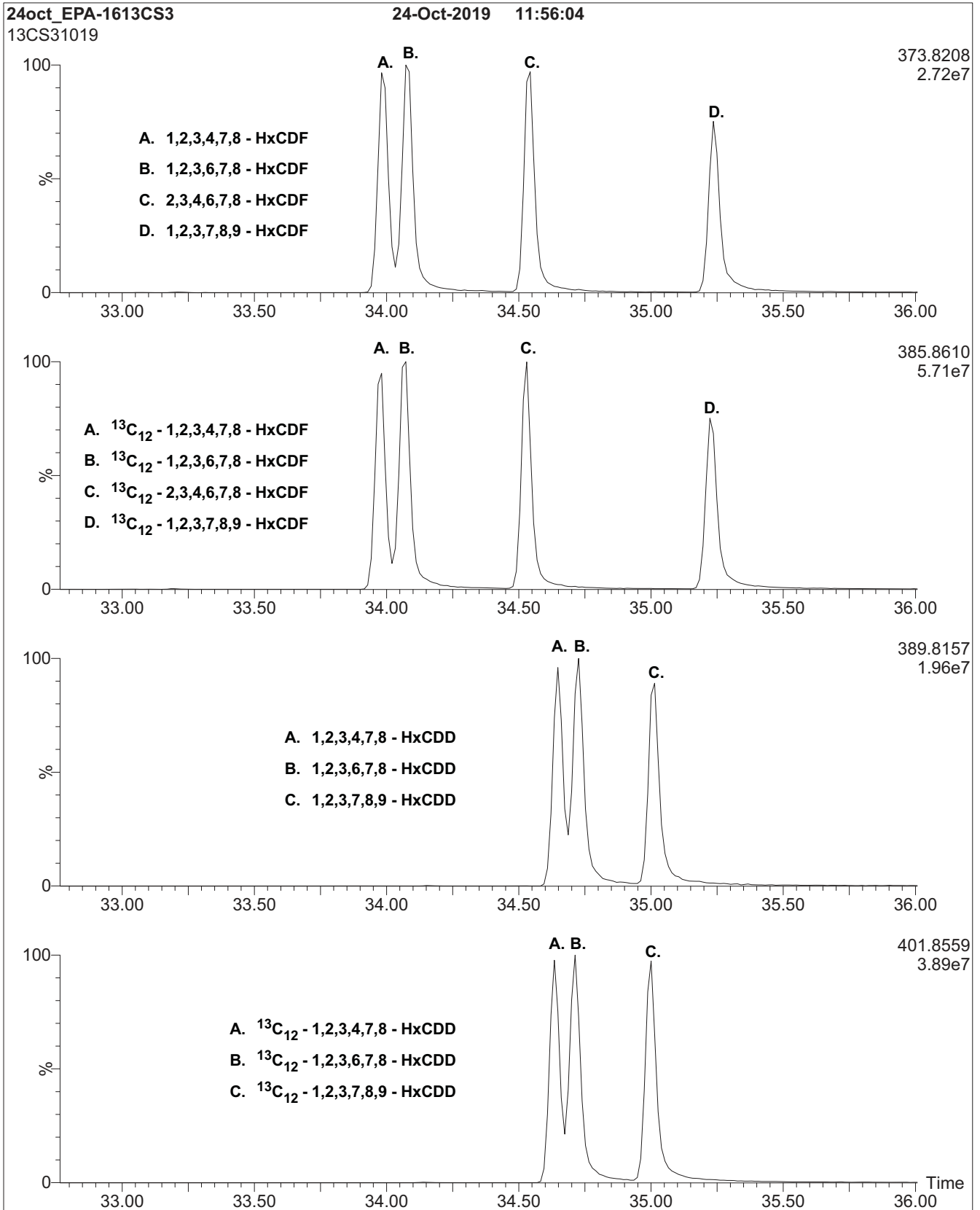


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

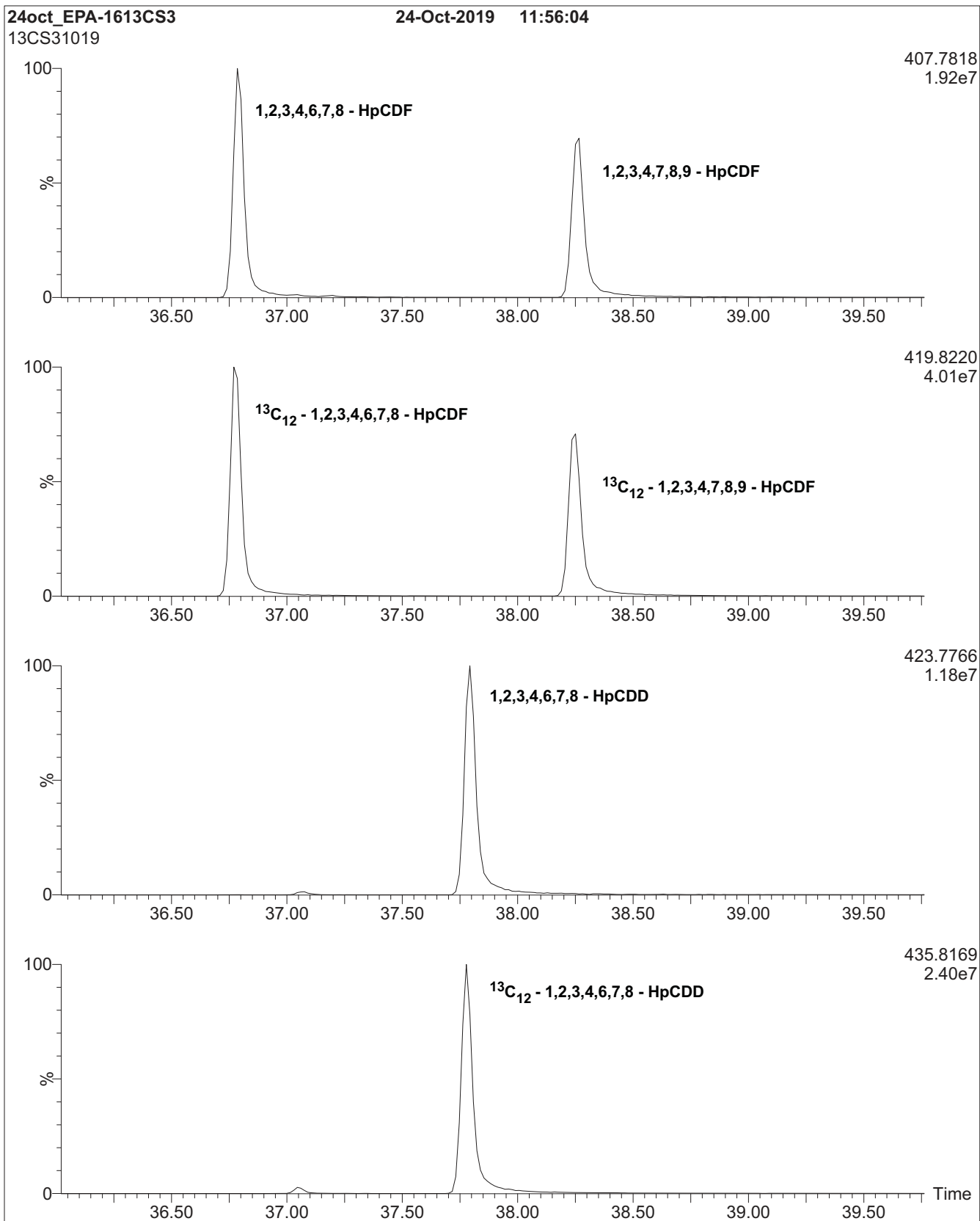
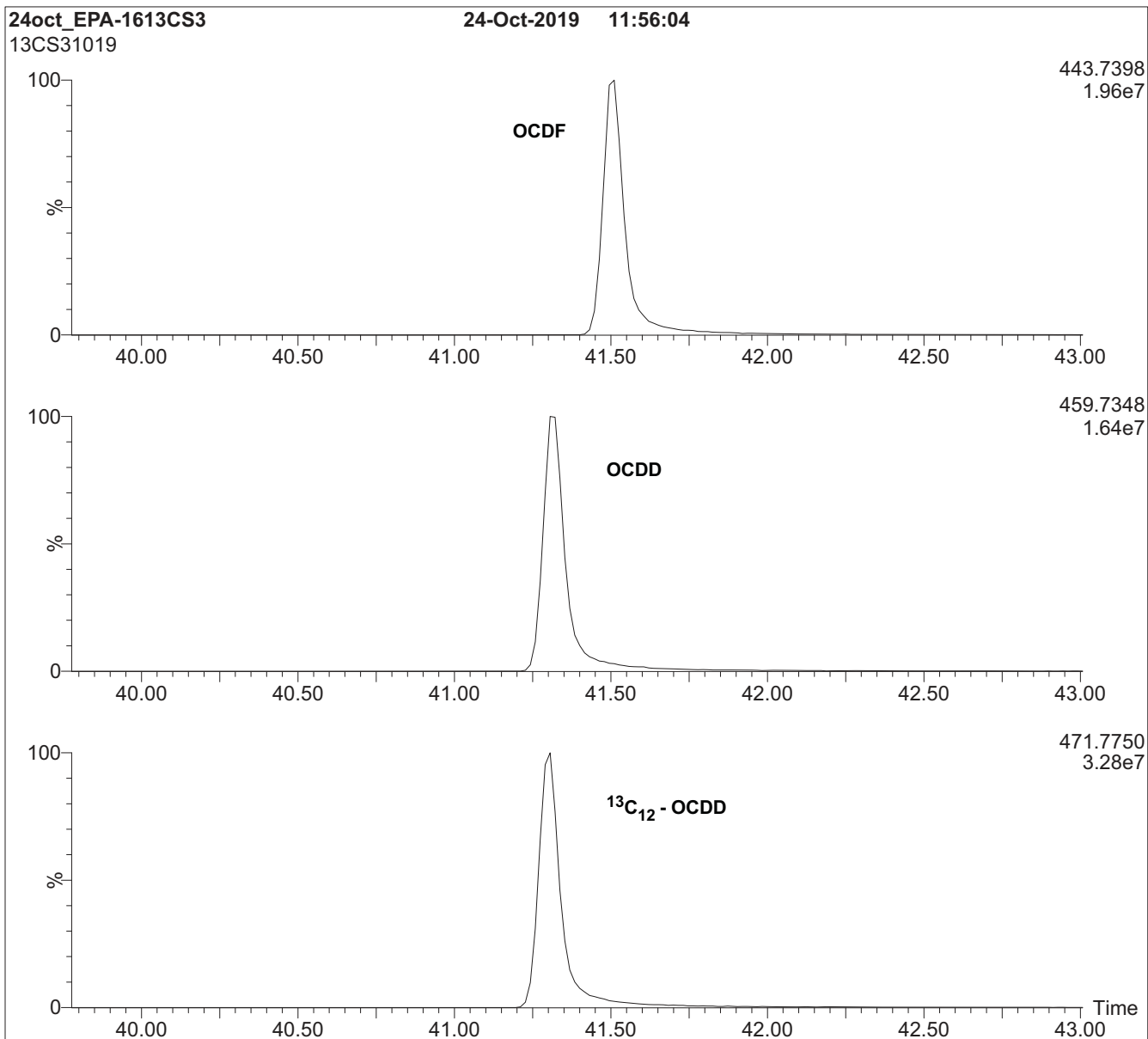


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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-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

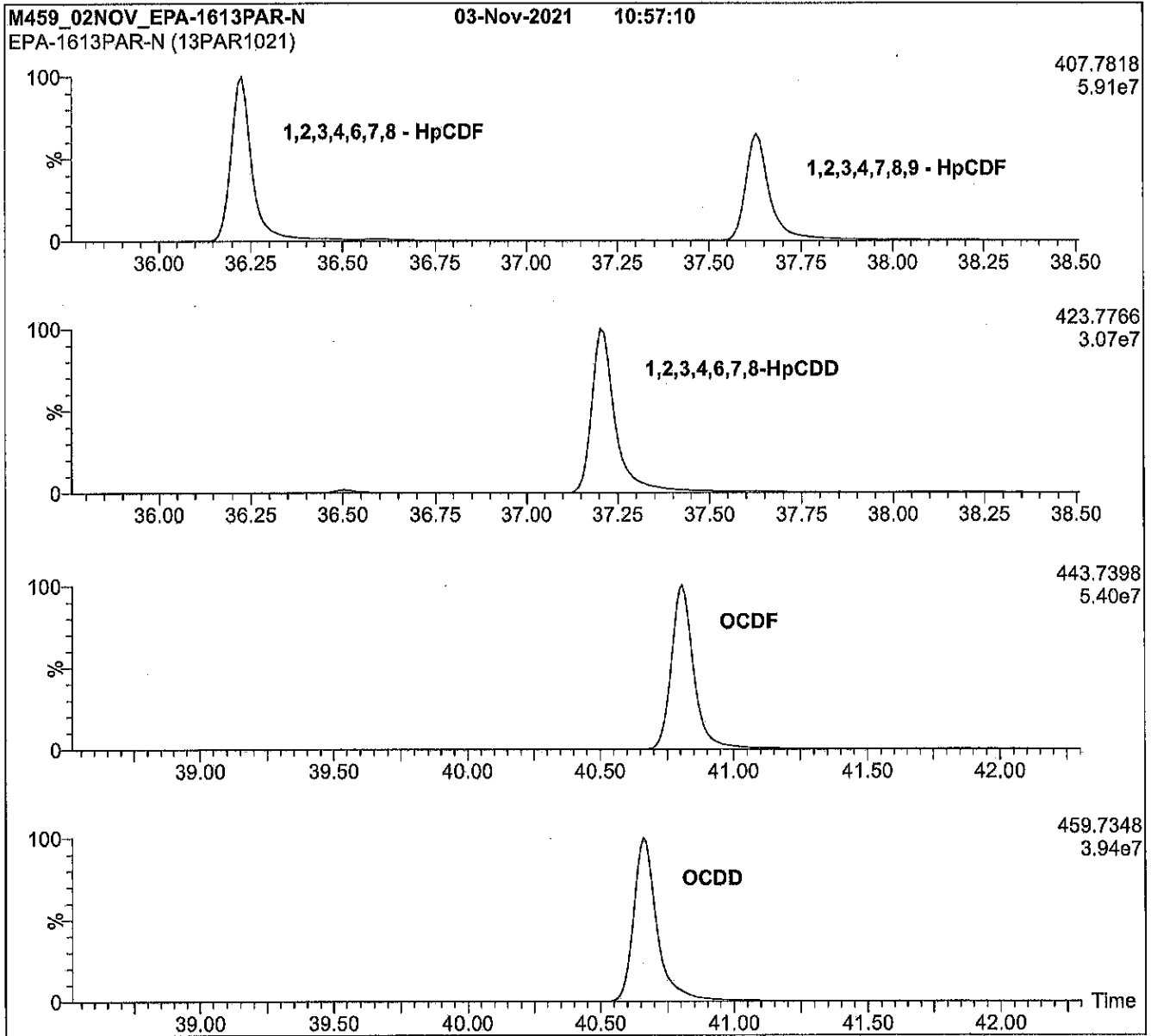
Table A: EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)

Compound	Acronym	CAS #	Concentration (ng/mL)
PCDDs:			
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
PCDFs:			
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 or contact us directly at 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)
PCDDs:			
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
PCDFs:			
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)

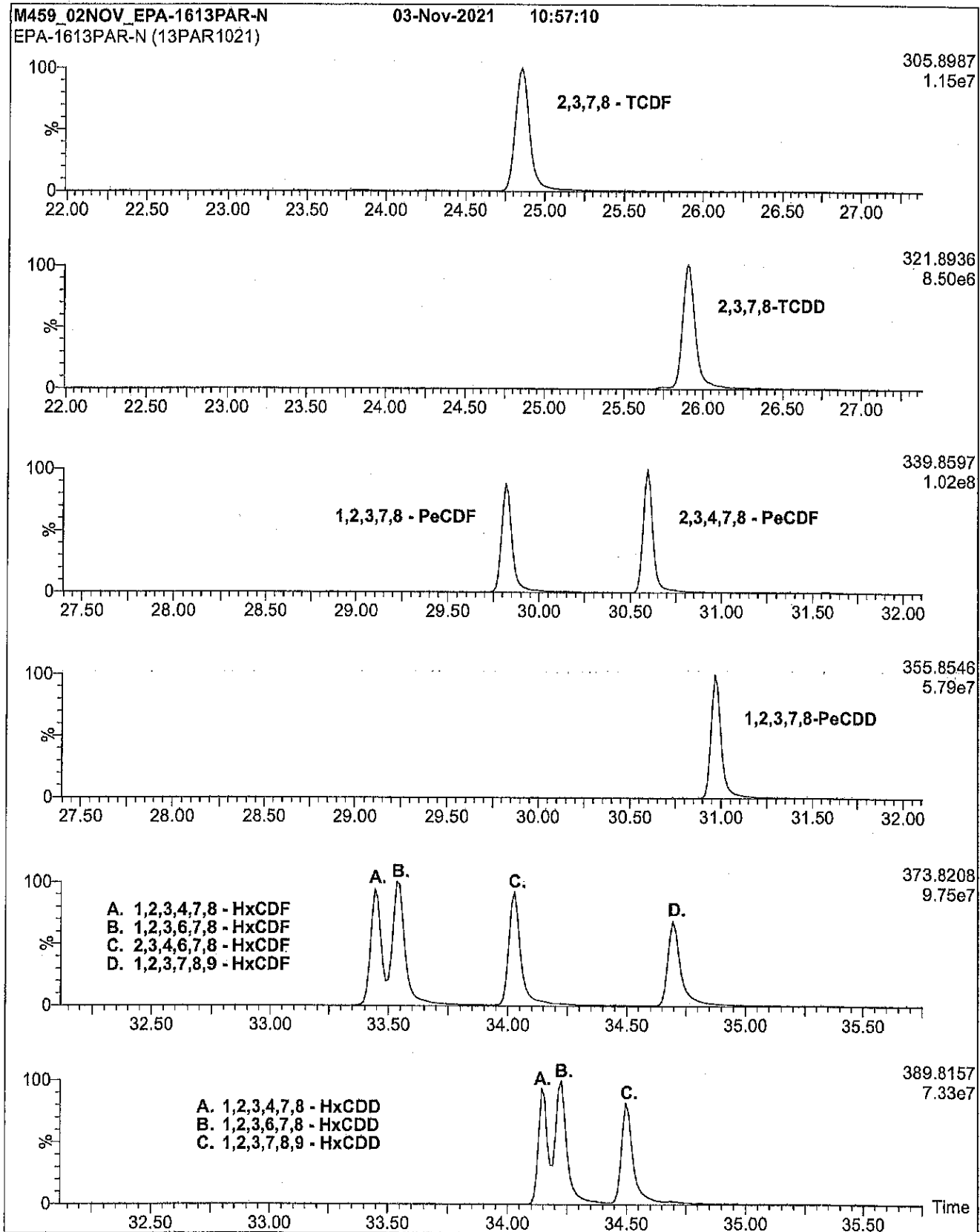
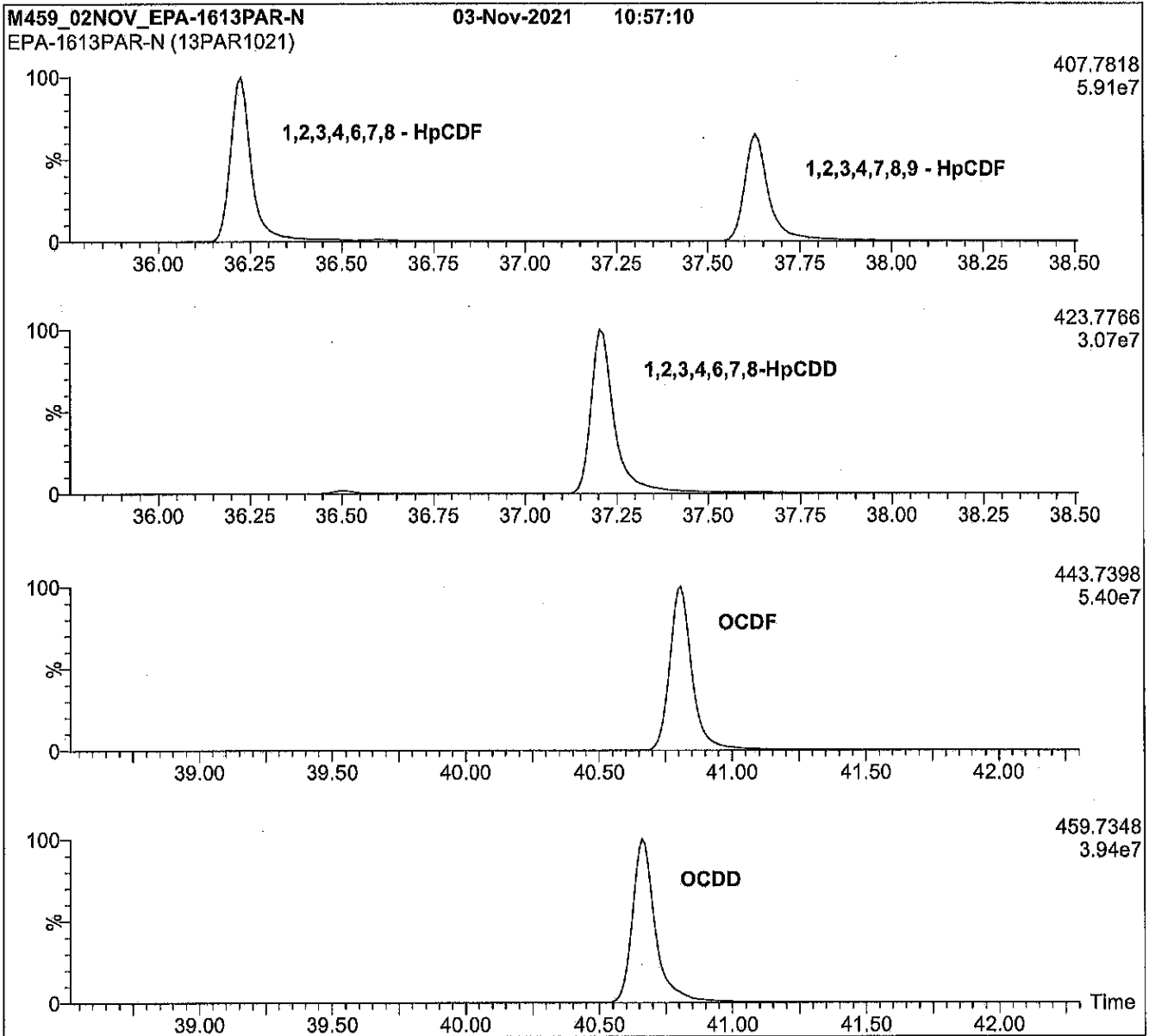


Figure 1: EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 μ m 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-(³⁷Cl₄)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-(³⁷Cl₄)Tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (³⁷Cl) 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-(³⁷ Cl ₄)Tetrachlorodibenzo- <i>p</i> -dioxin	³⁷ Cl ₄ -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.

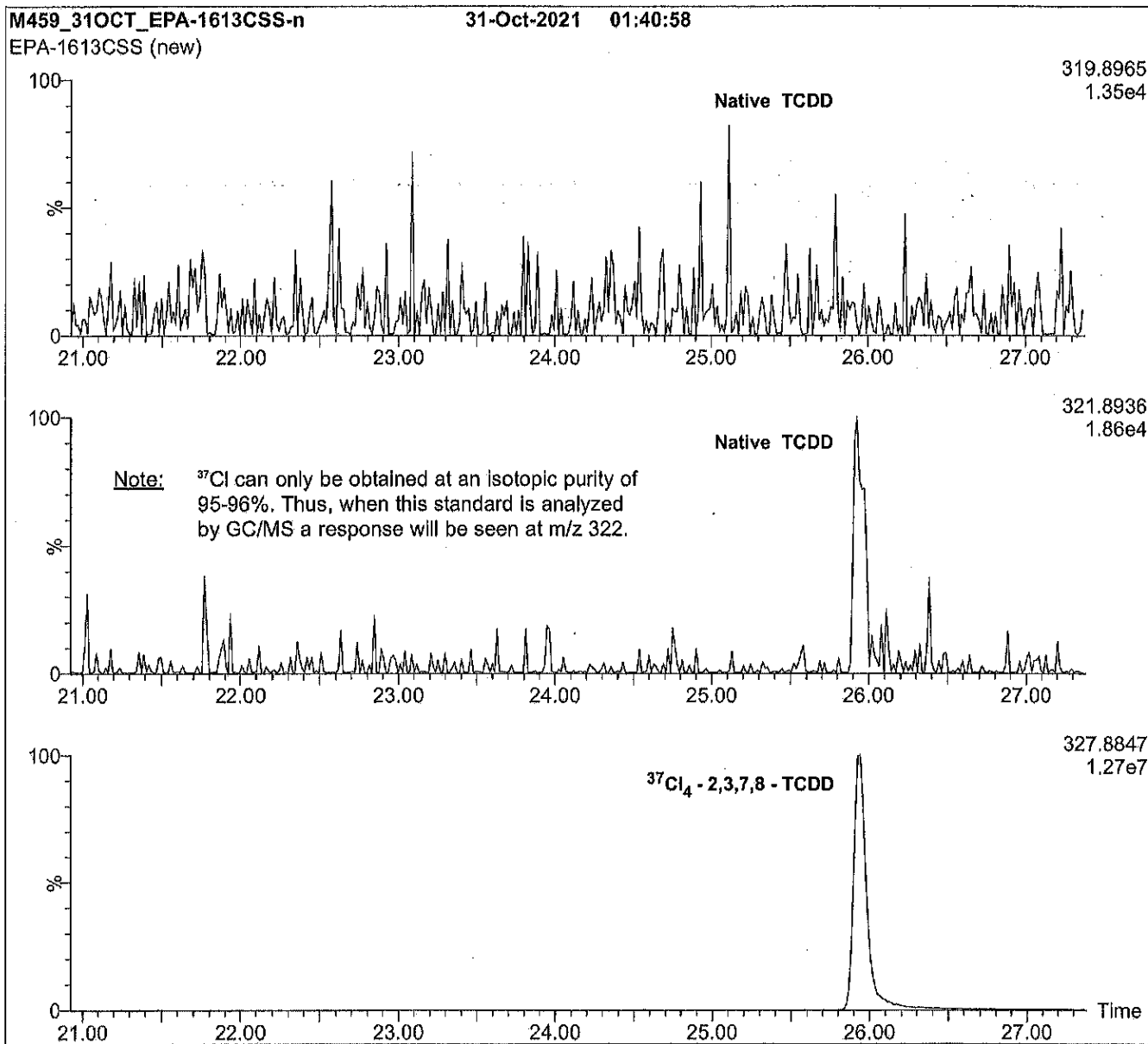
QUALITY MANAGEMENT:

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 or contact us directly at 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}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:

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 or contact us directly at 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)
Mass-Labelled PCDDs:			
2,3,7,8-Tetrachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -OCDD	114423-97-1	200
Mass-Labelled PCDFs:			
2,3,7,8-Tetrachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	109719-94-0	100

Certified By: 
 B.G. Chittim, General Manager

Date: 11/05/2021
(mm/dd/yyyy)

Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

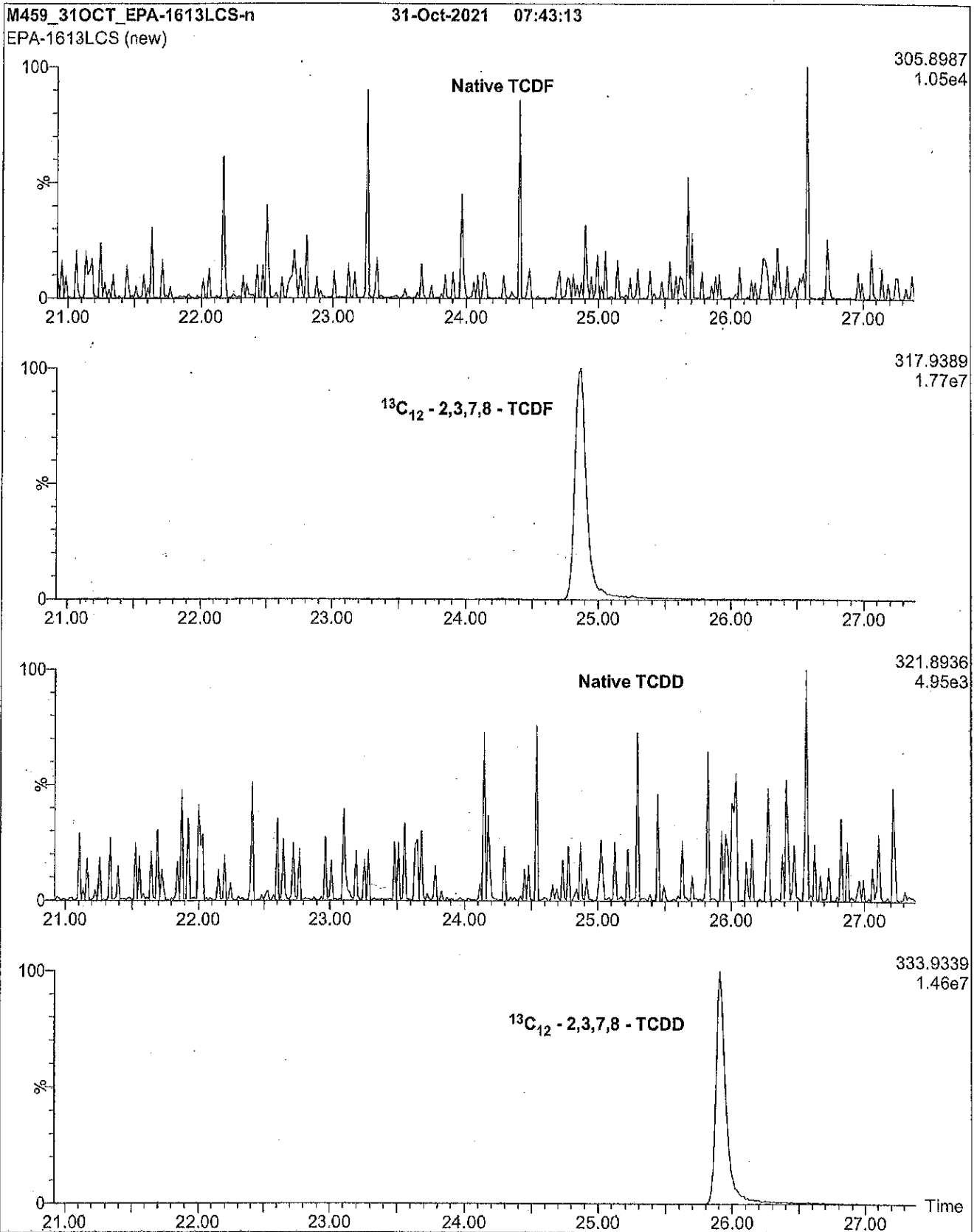


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

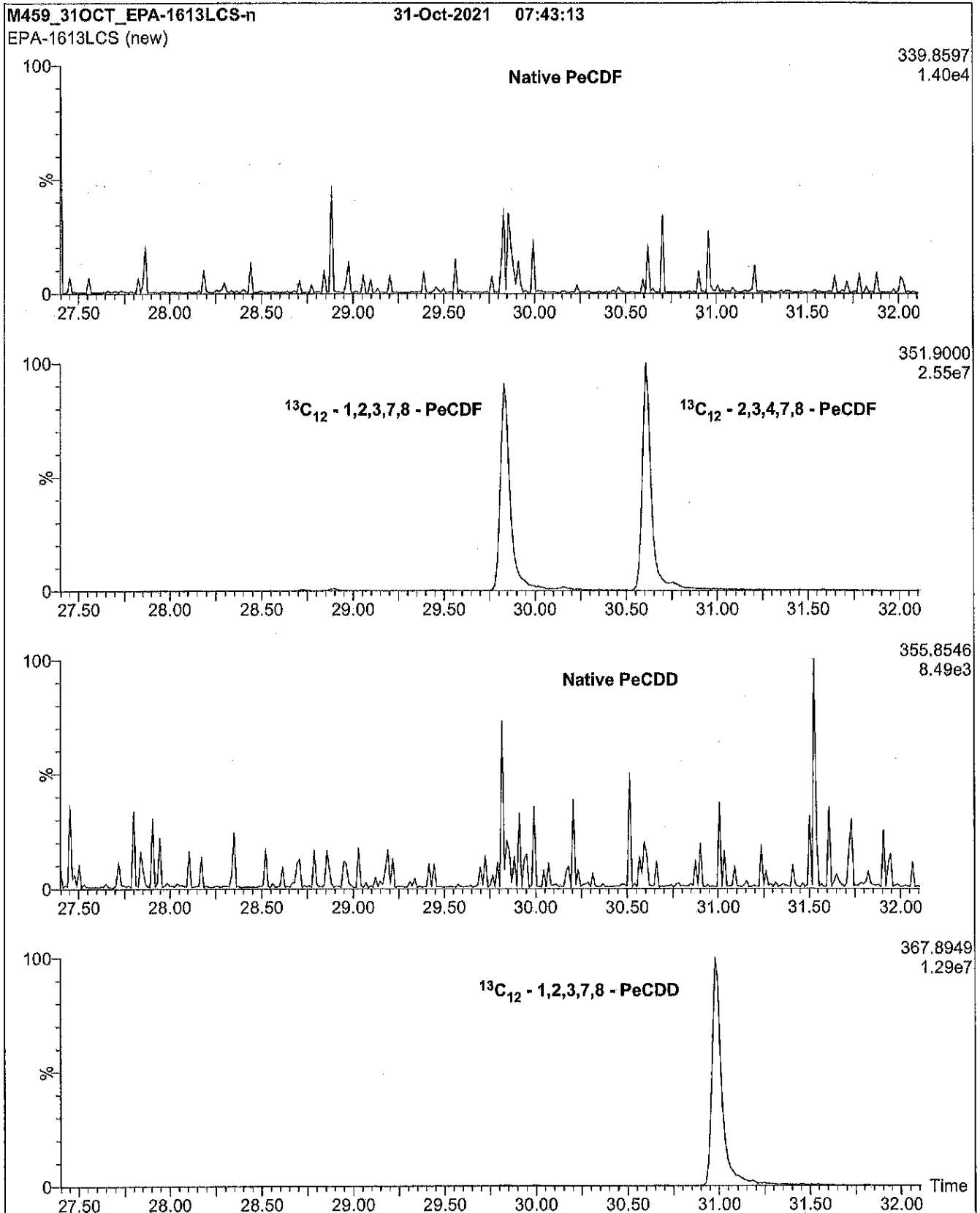


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

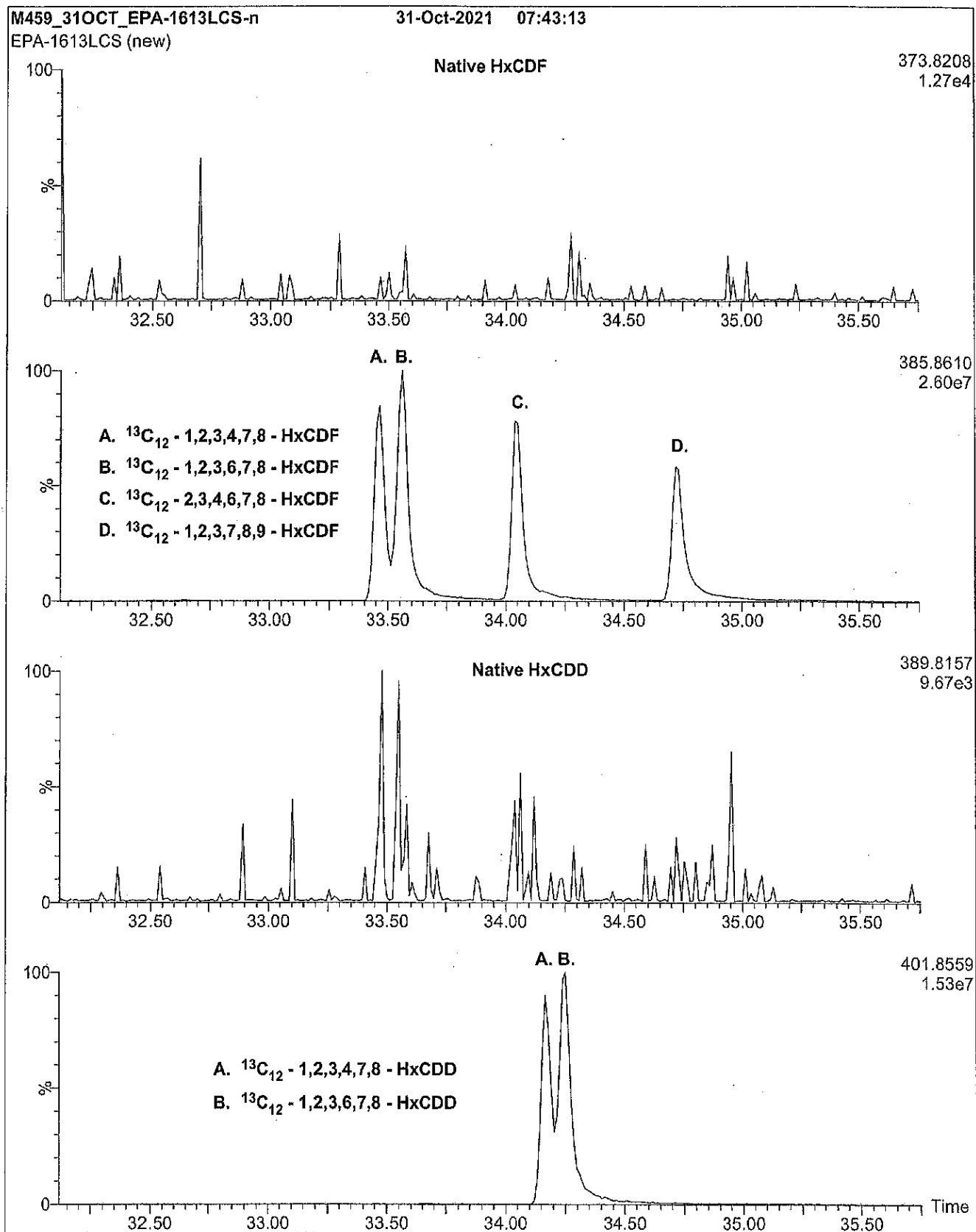


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

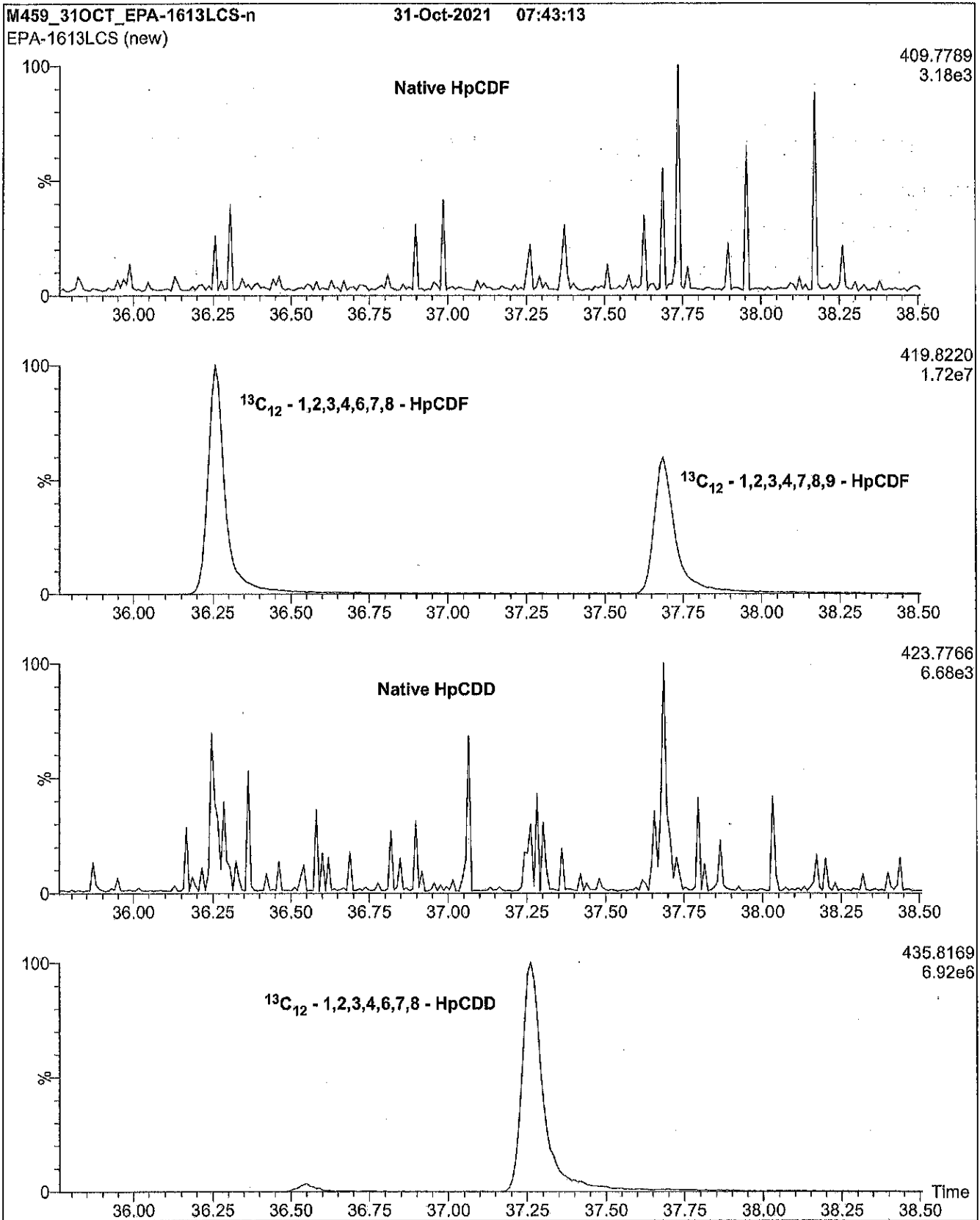
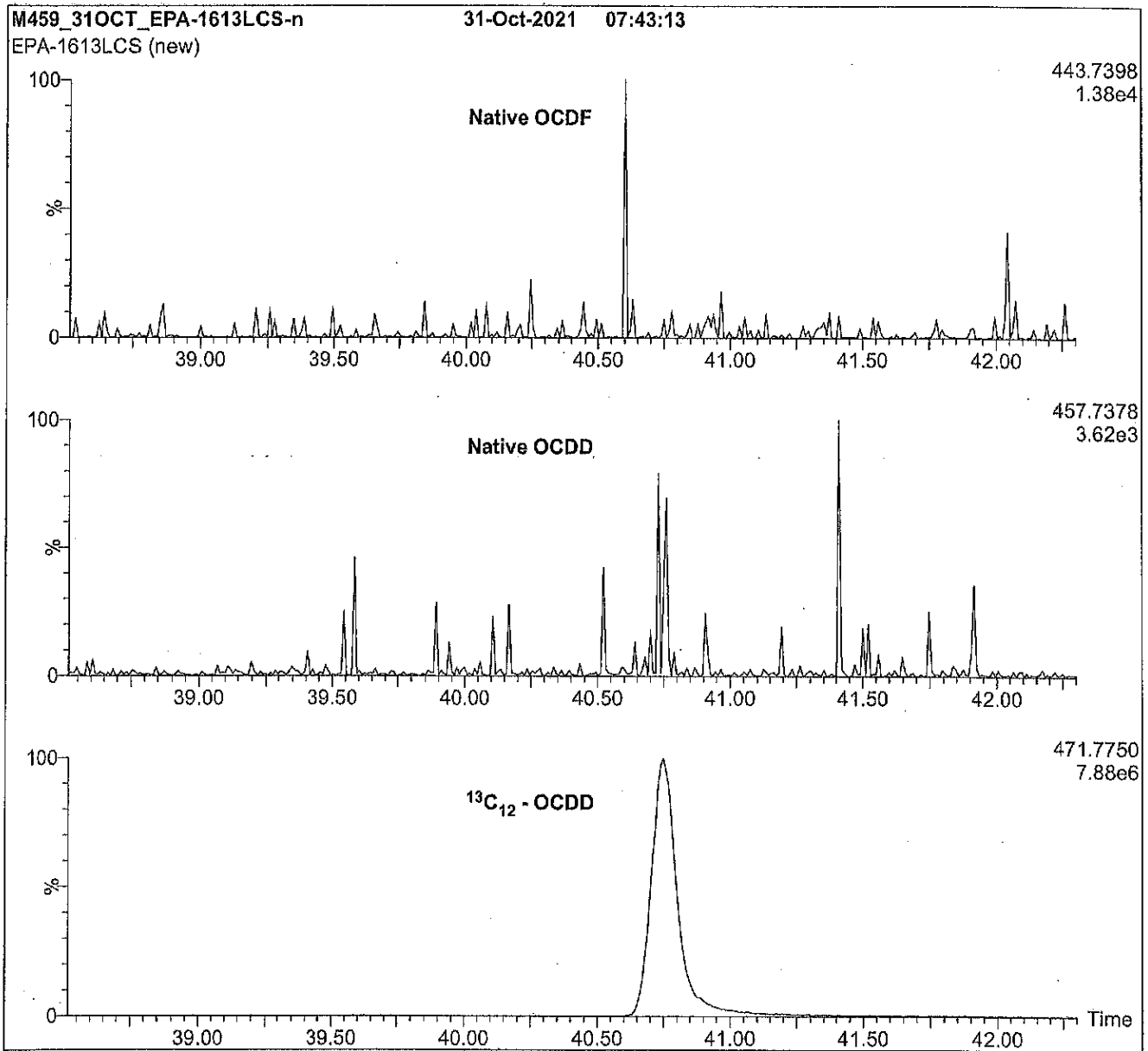


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)



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 (¹²C₁₂) and mass-labelled (¹³C₁₂) 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 ¹³C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-(³⁷Cl₄)tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (³⁷Cl) 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:

<u>PRODUCT CODE</u>	<u>LOT NUMBER</u>
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 or contact us directly at info@well-labs.com

Table A: CS3WT; Quantitative Components and Concentrations (ng/mL, ± 5%, in nonane/4.5% toluene)

Compound	Designation ^a	Acronym	CAS #	Concentration (ng/mL)
Native PCDDs:				
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 ^b	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
Native PCDFs:				
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 ^c	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
Mass-Labelled PCDDs:				
2,3,7,8-Tetrachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin		¹³ C ₁₂ -2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin		¹³ C ₁₂ -1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin		¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin		¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin		¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin		¹³ C ₁₂ -OCDD	114423-97-1	200
Mass-Labelled PCDFs:				
2,3,7,8-Tetrachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro(¹³ C ₁₂)dibenzofuran		¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	109719-94-0	100
Cleanup Standard:				
2,3,7,8-(³⁷ Cl ₄)Tetrachlorodibenzo- <i>p</i> -dioxin		³⁷ Cl ₄ -2,3,7,8-TCDD	85508-50-5	10.0
Internal Standards:				
1,2,3,4-Tetrachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin		¹³ C ₁₂ -1,2,3,4-TCDD	114423-99-3	100
1,2,3,7,8,9-Hexachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin		¹³ C ₁₂ -1,2,3,7,8,9-HxCDD	109719-82-6	100

^a First/Last eluting isomer for the specified homologue group (see Table B for additional Window Definers).

^{b,c} – see Table B for footnote.

Table B: CS3WT; Semi-Quantitative Components and Concentrations (ng/mL, ± 20%, in nonane/4.5% toluene)

Compound	Designation ^a	Acronym	CAS #	Concentration (ng/mL)
PCDD Window Definers:				
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 ^d
		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
PCDF Window Definers:				
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
2,3,7,8-TCDD Resolution Testing Isomers:				
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 ^d
		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

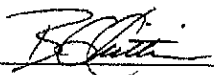
^a First/Last eluting isomer for the specified homologue group (see Table A for additional Window Definers).

^b 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.

^c 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.

^d 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)

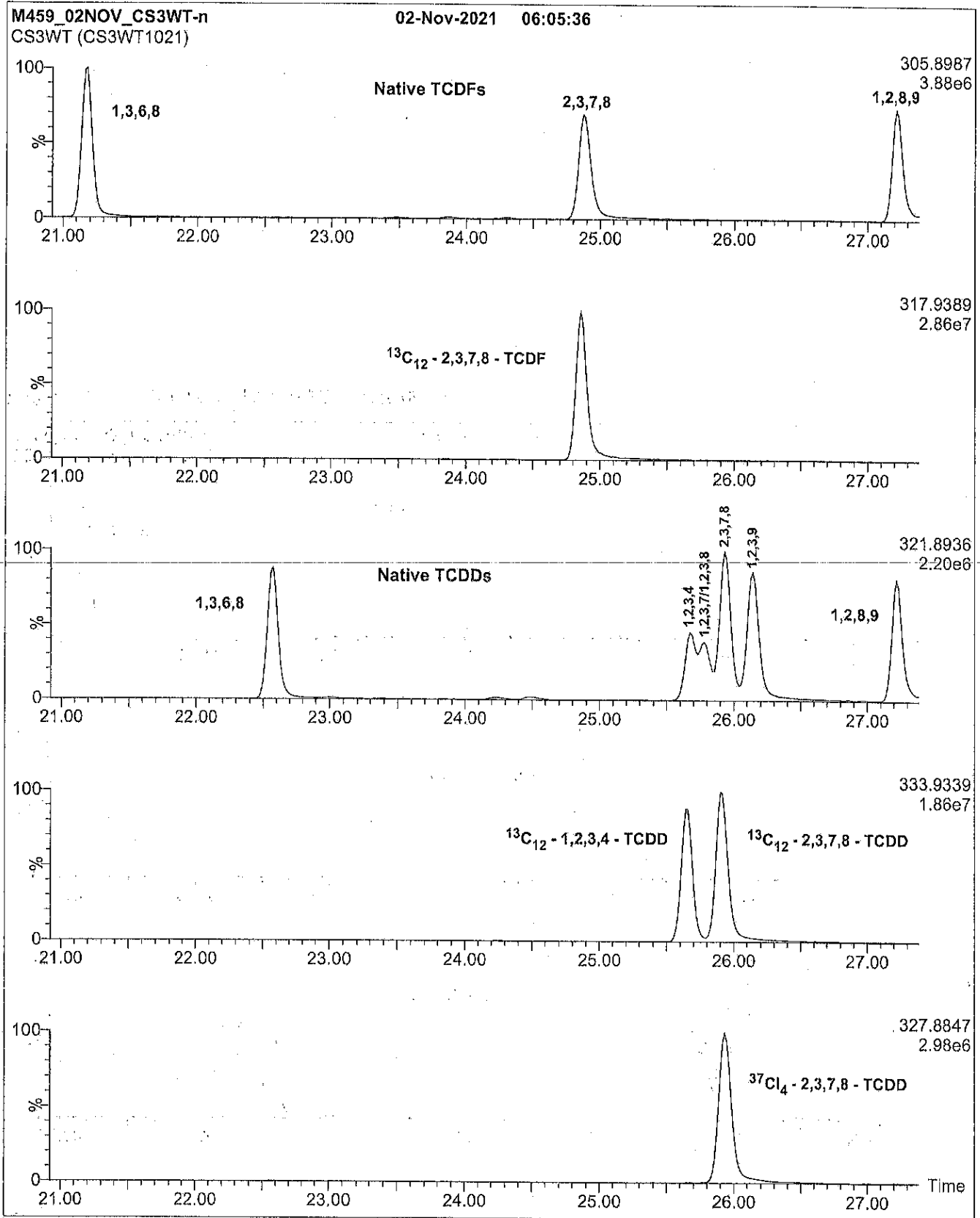


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

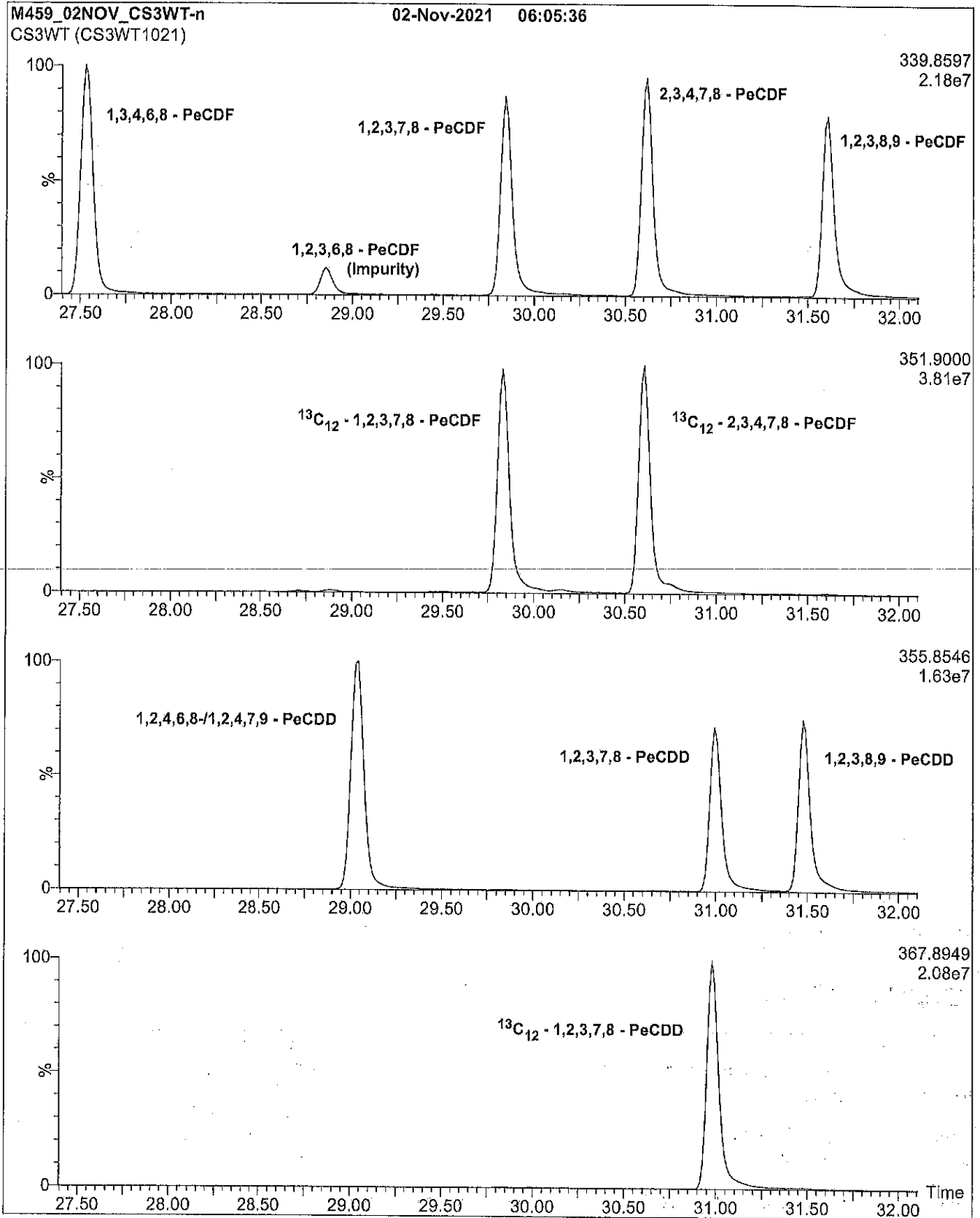


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

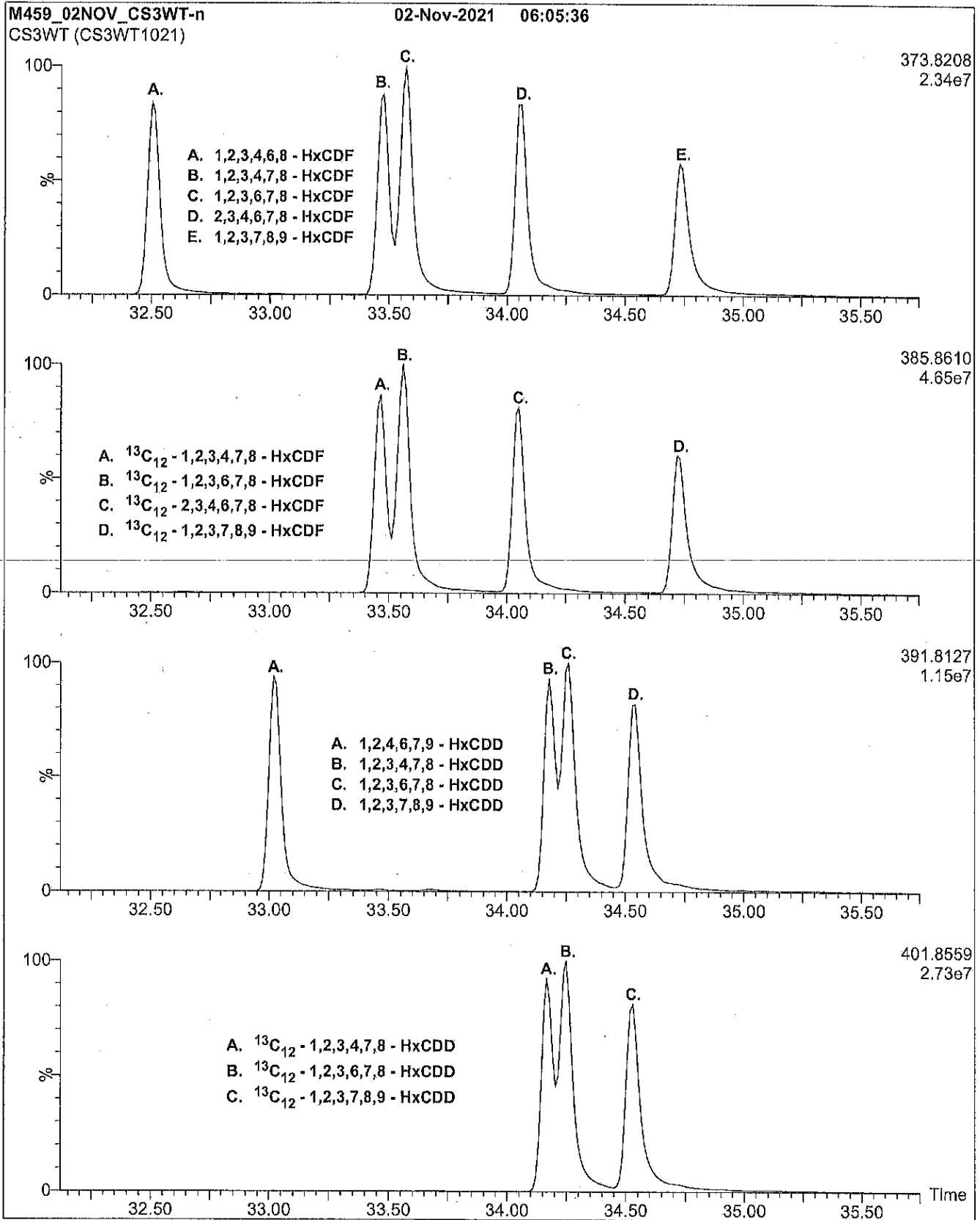


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

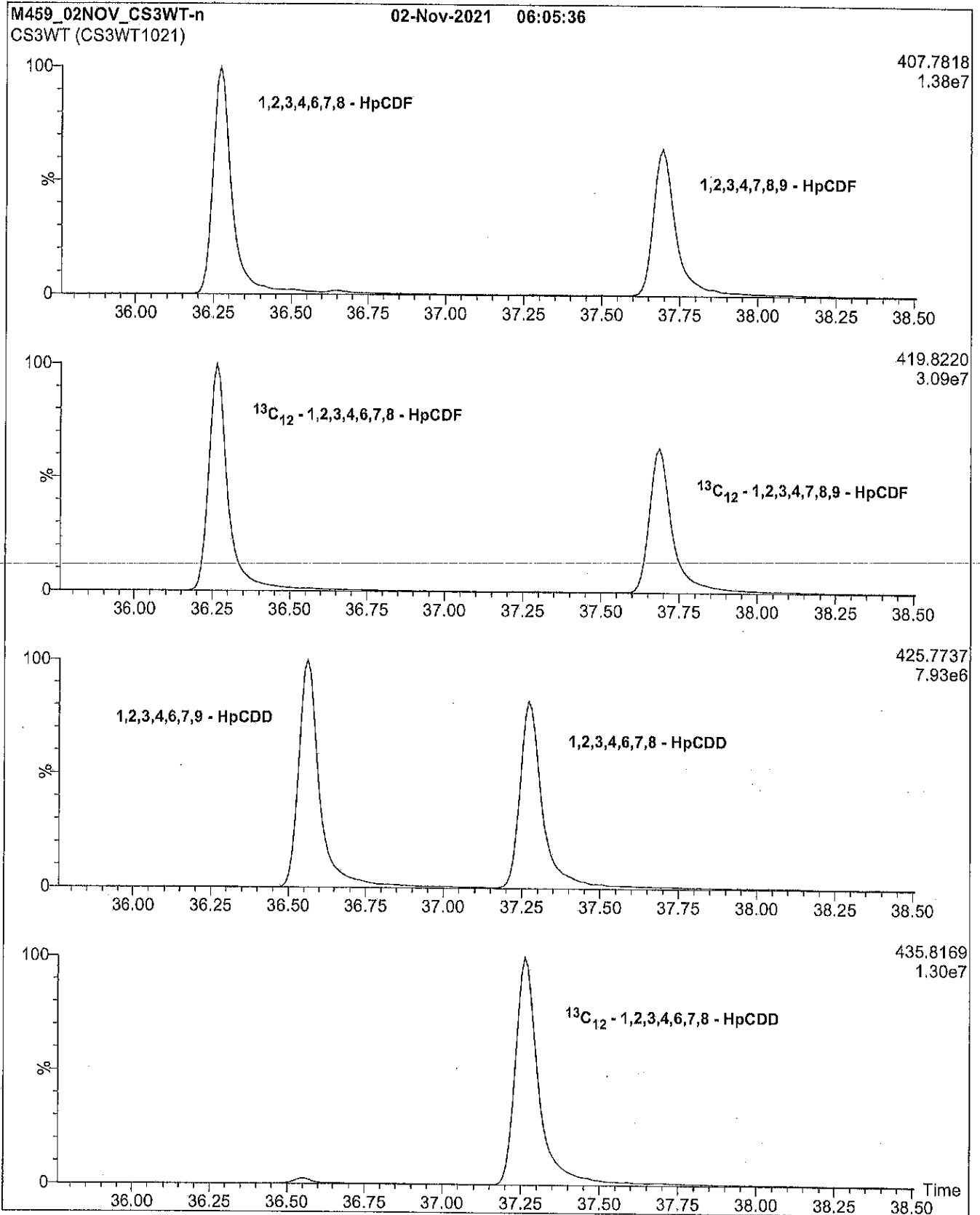
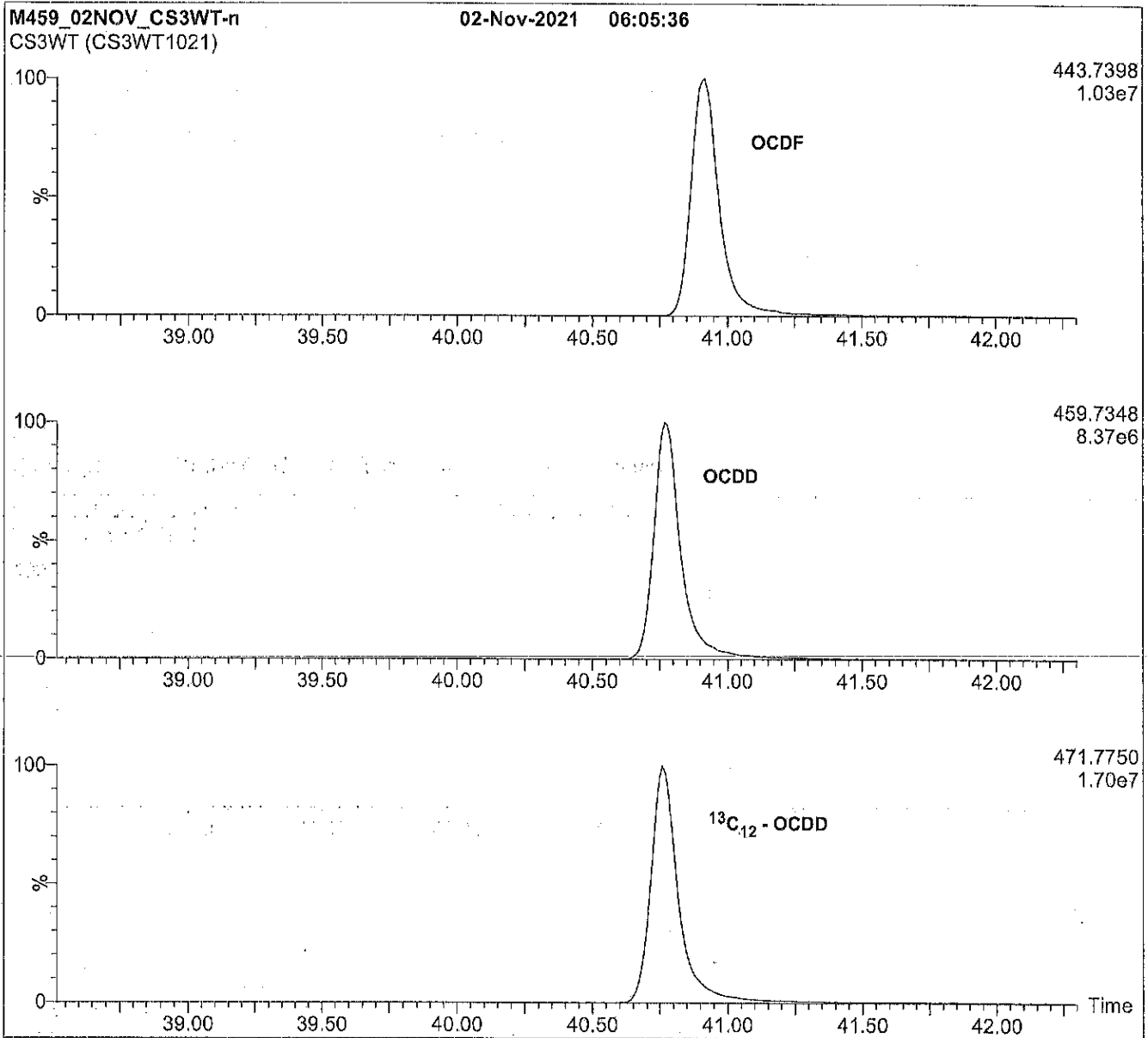


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)



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)



EPA-1613LCS

**U.S. EPA Method 1613
Labelled Compound Stock Solution**

<u>PRODUCT CODE:</u>	EPA-1613LCS
<u>LOT NUMBER:</u>	13LCS1021
<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/29/2021
<u>LAST TESTED:</u> (mm/dd/yyyy)	10/31/2021
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	10/31/2028
<u>RECOMMENDED STORAGE:</u>	Store ampoule in a cool, dark place

K 9985
JK Reed
10/27/22

DESCRIPTION:

EPA-1613LCS is a solution/mixture of mass-labelled (¹³C₁₂) 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 ¹³C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥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:

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:

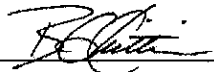
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).



For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at 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)
Mass-Labelled PCDDs:			
2,3,7,8-Tetrachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro(¹³ C ₁₂)dibenzo- <i>p</i> -dioxin	¹³ C ₁₂ -OCDD	114423-97-1	200
Mass-Labelled PCDFs:			
2,3,7,8-Tetrachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro(¹³ C ₁₂)dibenzofuran	¹³ C ₁₂ -1,2,3,4,7,8,9-HpCDF	109719-94-0	100

Certified By: 
 B.G. Chittim, General Manager

Date: 11/05/2021
(mm/dd/yyyy)

Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

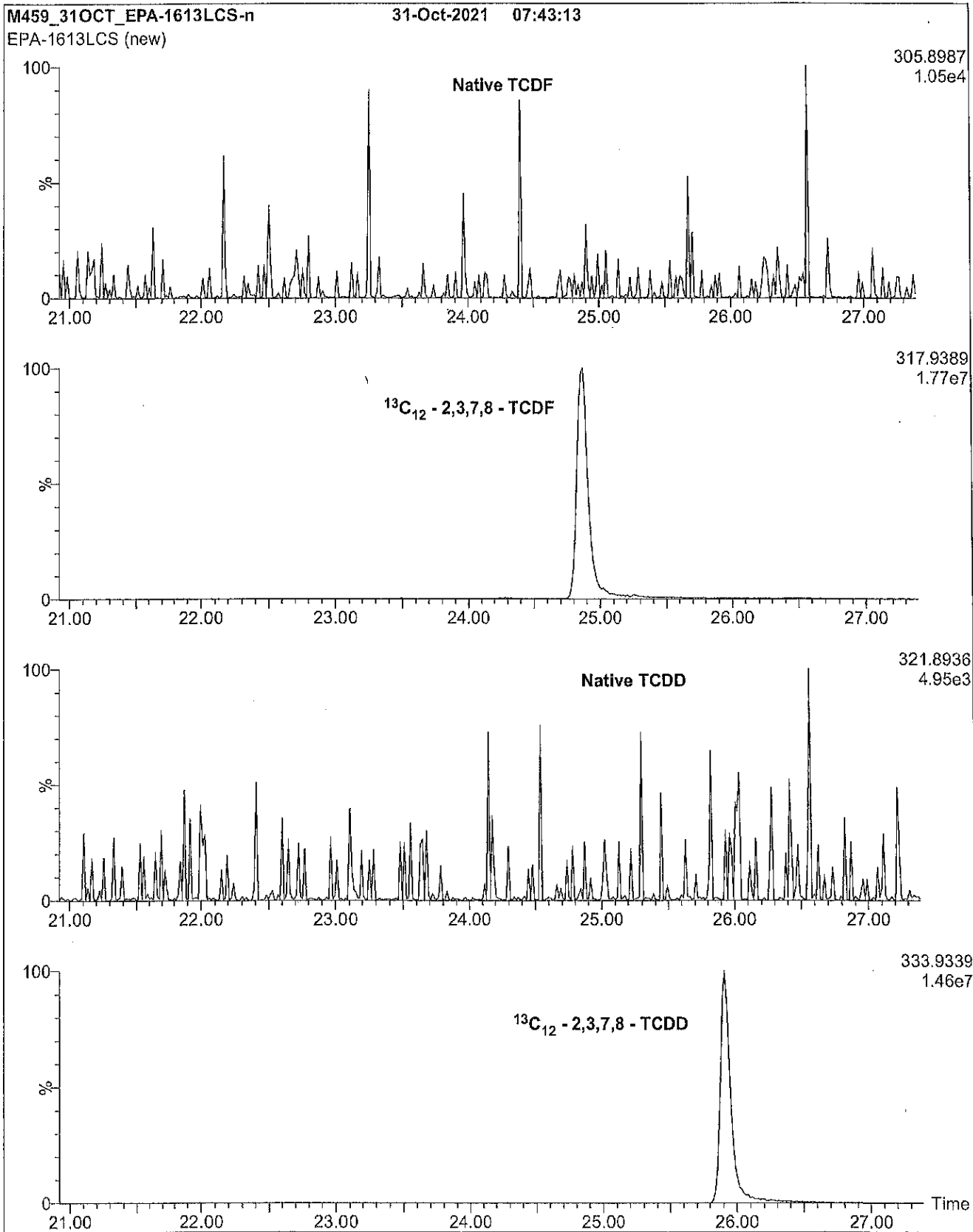


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

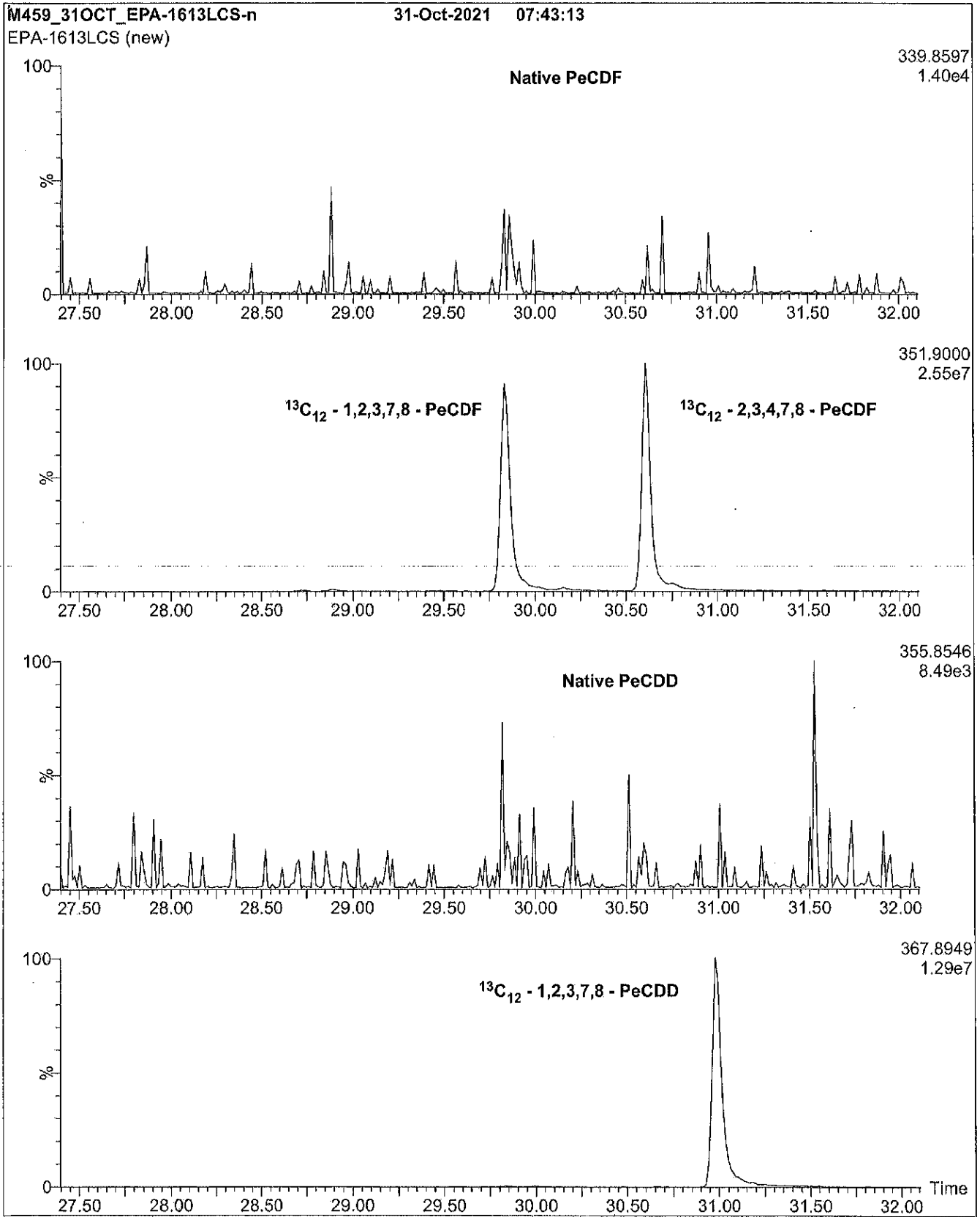


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

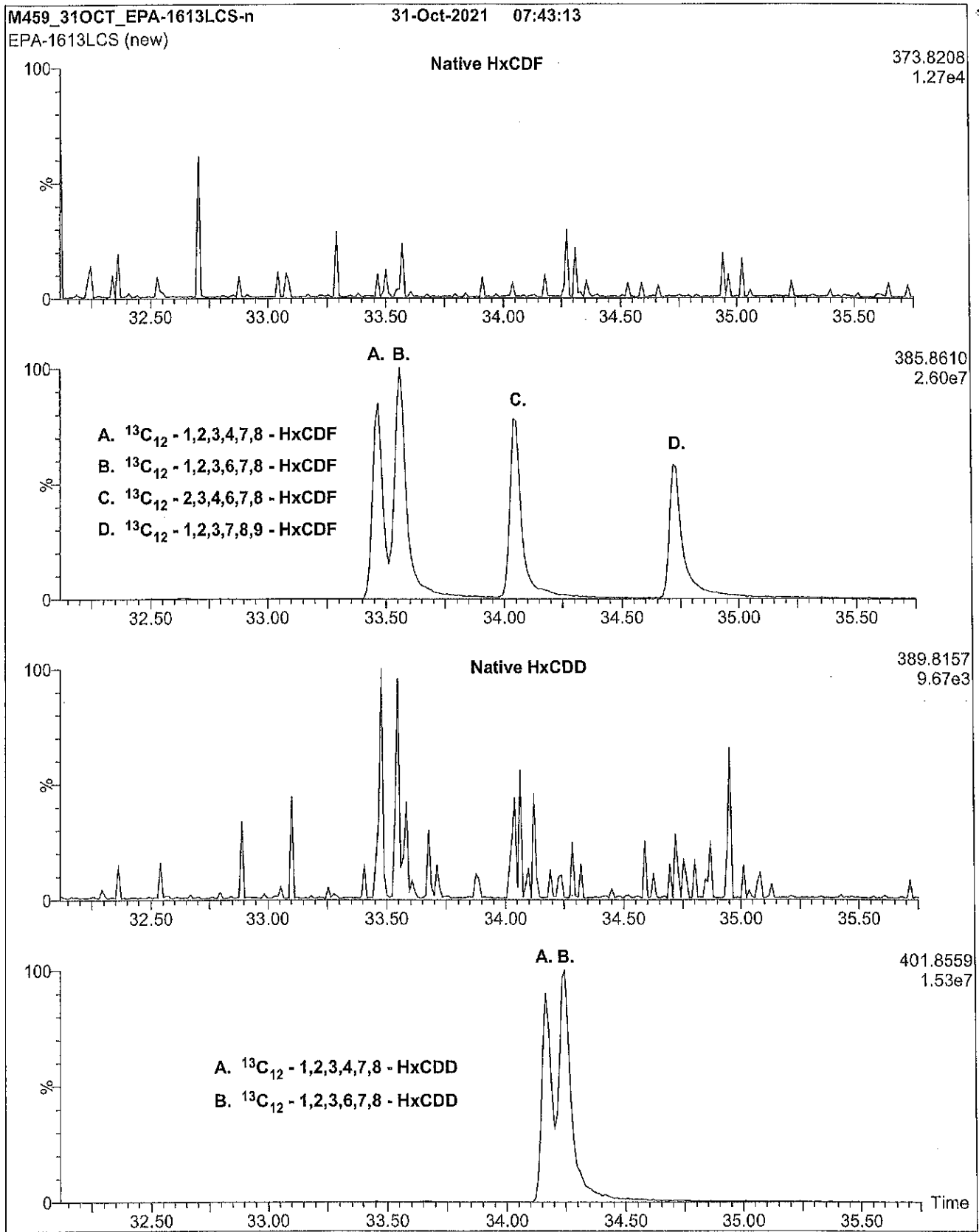


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

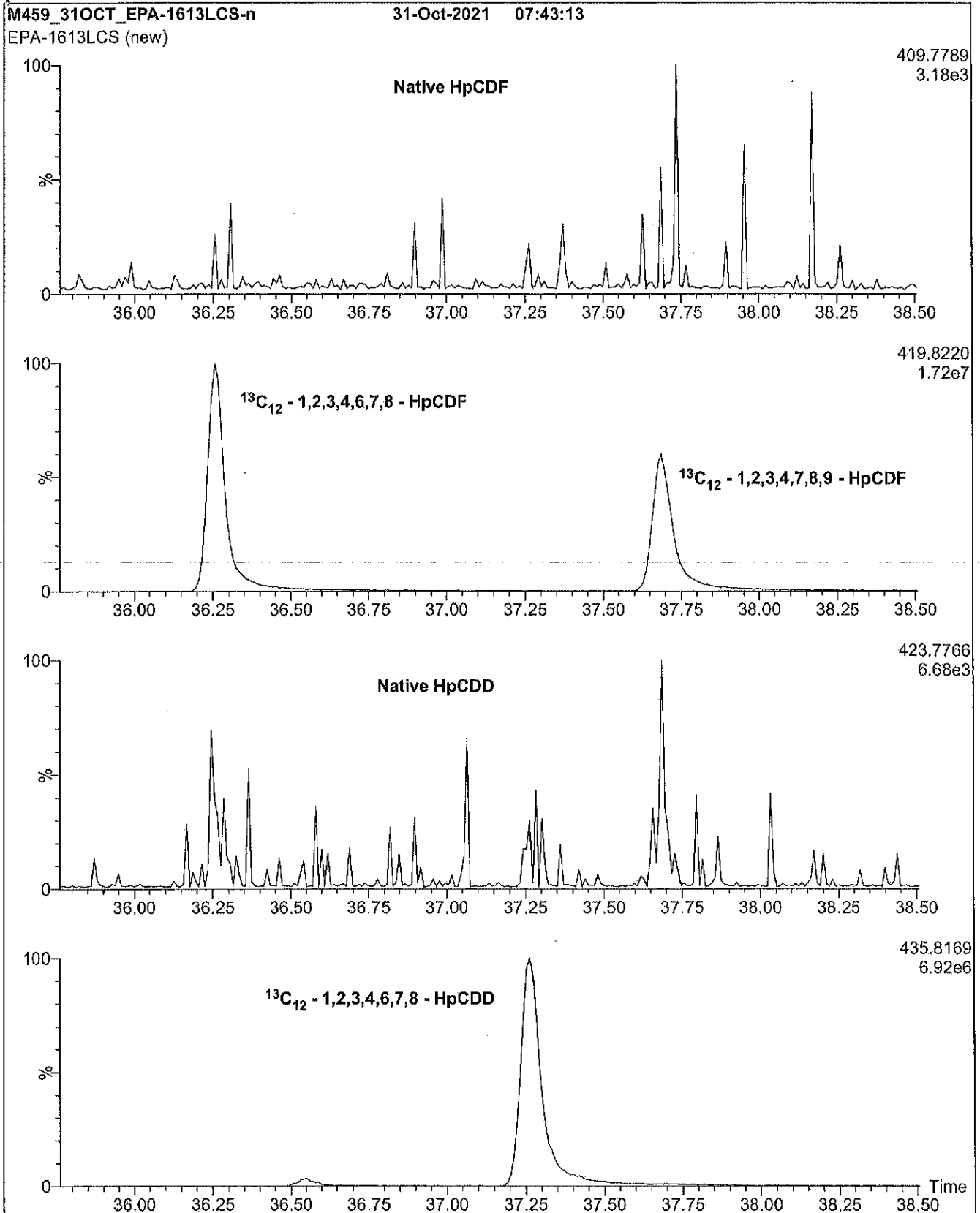
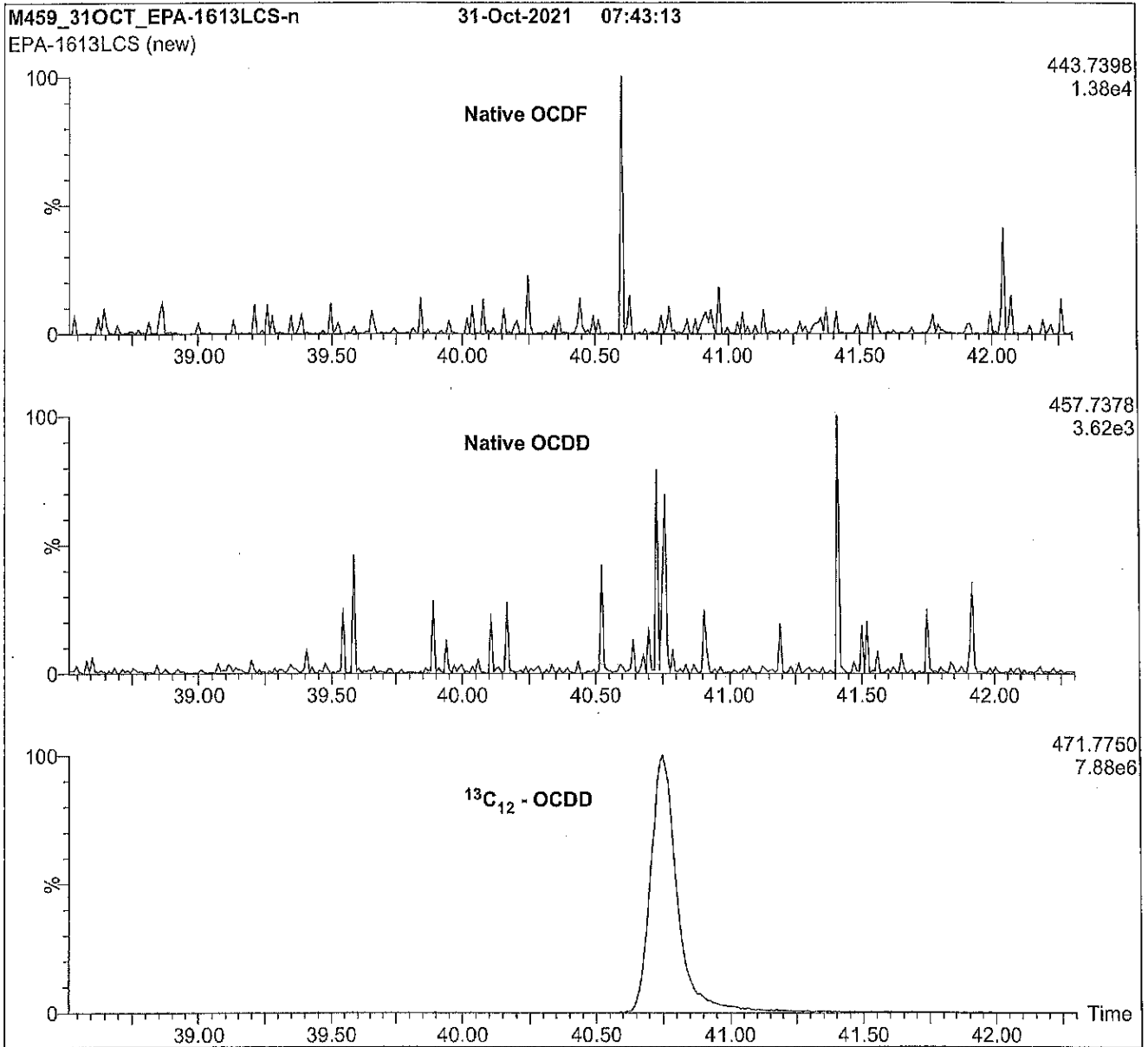


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)



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)

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15570

Order Number: CB014985

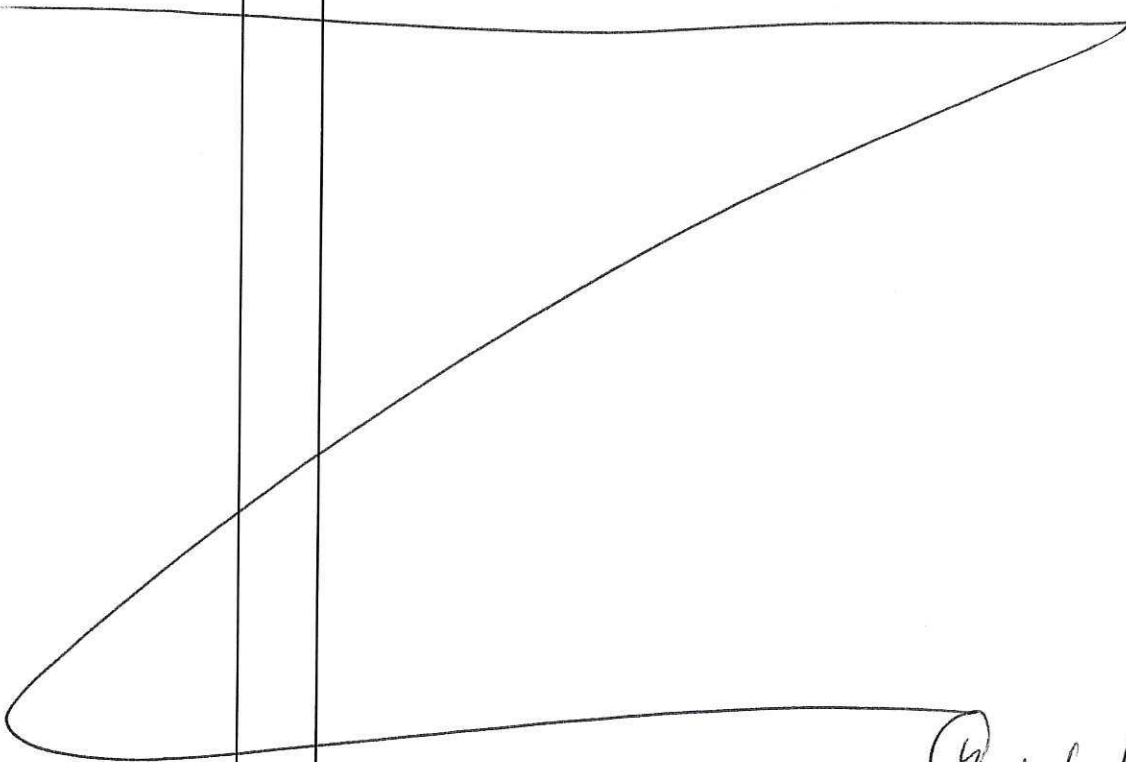
Date Shipped: 12/12/2022

AirBill No(s):

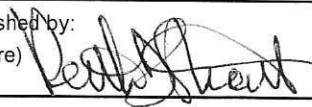

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

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