



Analytical Resources, LLC
Analytical Chemists and Consultants

01 August 2023

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

RE: AOC5 MR Phase 1

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

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

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

Associated Work Order(s)
23F0143

Associated SDG ID(s)
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.



23F0143

Sample ID	Date Collected	ARI Login WO ID	Location (16oz, 4oz, AG 8oz if needed)	PCBs	Other Benthic Risk Drivers (PAHs, SVOCs, HCB)	All Metals/ Mercury	TOC/Percent Solids	Dioxins/ Furans
LDW23-SC1156A	12/14/22 1044	22L0384-10	C3-4, C3-5	x	x	x	TOC only	-
LDW23-SC1226A	1/3/2023 1235	23A0042-02	B6-4, B2-4, B1-1	x	x	x	TOC only	x
LDW23-SS1269	1/4/2023 0855	23A0086-01	B2-4, B2-4	x	x	x	TOC only	-
LDW23-SS1275	1/4/2023 0910	23A0086-02	B2-4, B2-4	x	x	x	TOC only	-
LDW23-SS1274	1/4/2023 1320	23A0086-03	B2-4, B2-4	x	-	Hg only	TOC only	-
LDW23-SS1230	1/4/2023 1430	23A0086-05	B2-4, B2-4	x	PAHs only	-	TOC only	-
LDW23-SC1221A	1/4/2023 1338	23A0086-06	B2-4, B2-4	x	x	x	TOC only	-
LDW23-SC1184B	1/4/2023 1458	23A0086-08	B2-4, B2-4	x	-	x	TOC only	-
LDW23-SC1205B	1/5/2023 1120	23A0101-01	C7-5, C7-5	x	-	x	TOC only	-
LDW23-SS1195	1/6/2023 0901	23A0135-02	C2-3, C2-3	x	-	x	TOC only	-
LDW23-SS1243	1/6/2023 1024	23A0135-04	C2-3, C2-3	x	-	-	TOC only	-
LDW23-SS1063	1/10/2023 1308	23A0181-01	F1-5, F1-4	x	PAHs only	-	TOC only	-
LDW23-SC1038A	1/13/2023 0946	23A0294-01	E4-5, E4-5	x	x	x	TOC only	-
LDW23-SC1023A	1/13/2023 1035	23A0294-03	E4-5, E4-5, E4-5	x	x	x	TOC only	x
LDW23-SC1022B	1/13/2023 1120	23A0294-05	E4-5, E4-5	x	-	x	TOC only	-
LDW23-SC1017A	1/13/2023 1247	23A0294-06	E4-5, E4-5	x	x	x	TOC only	-
LDW23-SC1016B	1/16/2023 1111	23A0314-01	F6-2, F6-2	x	-	x	TOC only	-
LDW23-SC1011B	1/16/2023 1146	23A0314-02	F6-2, F6-2	x	-	x	TOC only	-
LDW23-SC1006B	1/16/2023 1229	23A0314-03	F6-2, F6-2	x	-	x	TOC only	-
LDW23-SC1012A	1/16/2023 1313	23A0314-04	F6-2, F6-2	x	x	x	TOC only	-
LDW23-SC1170B	1/17/2023 1033	23A0329-01	F4-5, F4-5	x	-	x	TOC only	-
LDW23-SC1169A	1/17/2023 1108	23A0329-02	F4-5, F4-5	x	x	x	TOC only	-
LDW23-SC1169B	1/17/2023 1108	23A0329-03	F4-5, F4-5	x	x	x	TOC only	-
LDW23-SC1162A	1/17/2023 1437	23A0329-05	F4-5, F4-5, F4-5	x	x	x	TOC only	x
LDW23-SS1056	3/2/2023 1050	23C0071-07	L2-3, F-05 05	x	-	x	TOC only	-
LDW23-SS1113	3/3/2023 1058	23C0105-01	H9-5, H9-5	x	HCB only	-	TOC only	-
LDW23-SS1119	3/3/2023 1107	23C0105-02	H9-5, H9-5	-	cPAHs only	-	TOC only	-
LDW23-SS1042	4/10/2023 1650	23D0255-01	H6-1, H6-1	x	-	x	TOC only	-
LDW23-SS1067	4/11/2023 1438	23D0255-02	H6-1, H6-1, H6-1	x	-	-	TOC only	x
LDW23-SS1050	4/11/2023 1543	23D0255-03	H6-1, H6-1	x	-	x	TOC only	-

1 of 2 ²²⁶⁰³⁸⁴ 23 F0143 CHAIN-OF-CUSTODY/TEST REQUEST FORM

TIER 2
No 3350

Project/Client Name: AOC5 MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dunningo
 Shipper: Courier
 Form filled out by: AVICC
 Shipping Date: 12/14/22
 Airbill Number: _____
 Turnaround requested: stat

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						
12/14/22	0804	LDW23-SC1177A	cc 4 3	sediment	X						Hold ALL ↓
	0804	LDW23-SC1177B	cc 4 3		X						
	0804	LDW23-SC1177D	cc 4 3		X						
	0903	LDW23-SC1150A	3		X						
	0903	LDW23-SC1150B	3		X						
	0903	LDW23-SC1150D	3		X						
	0945	LDW23-SC1137A	3		X						
	0945	LDW23-SC1137B	3		X						
	0945	LDW23-SC1137D	3		X						
	1044	LDW23-SC1156A	3		X						
	1044	LDW23-SC1156B	3		X						
	1331	LDW23-SC1191A	4		X						
Total Number of Containers			37	Purchase Order / Statement of Work # APJ-110222-AOC5-ARL							

1) Released by: <u>Amara Vandervort</u> Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>12/14/22 1625</u>	1) Rec'd by: <u>YAREJ</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/14/22 4:25</u>	2) Released by: <u>YAREJ</u> Print name: <u>YAREJ</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/14/22</u>	2) Rec'd by: <u>R-</u> Company: <u>ARL</u> Date/Time: <u>12/14/22 1647</u>
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* Distribution: White copies accompany shipment; yellow retained by Consignor.



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

To be completed by Laboratory upon sample receipt:

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

2260384
 2 of 2 23F0143

CHAIN-OF-CUSTODY/TEST REQUEST FORM

TIER 2

No 3355

Project/Client Name: AOC5 MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandervoort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dunningham Shipping Date: 12/14/2022
 Shipper: Courier Airbill Number: _____
 Form filled out by: AV/CC 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						
12/14/22	1331	LDW23-SC1191C	4	sediment	X						
	1409	LDW23-SC1183A	3		X						
	1409	LDW23-SC1183B	3		X						
	1409	LDW23-SC1183C	3		X						
	1409	LDW23-SC1183E	3		X						
<i>AV</i>			<i>12/14/22</i>								
Total Number of Containers			<u>16</u>	Purchase Order / Statement of Work # <u>APJ-110222-AOC5-ARL</u>							

1) Released by: Print name: <u>A. Vandervoort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>12/14/22 1625</u>	1) Rec'd by: <u>YARED</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/14/22 4:25</u>	2) Released by: Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>12/14/22 4:25</u>	2) Rec'd by: <u>[Signature]</u> Company: <u>ARL</u> Date/Time: <u>12/14/22 1647</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:

Tier 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 4054

1 of 1
 Project/Client Name: ACC 5 NR Phase 1
 Project Number: 216075.01-02
 Contact Name: Amaya Vandewort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dunnington Shipping Date: 1/3/23
 Shipper: cosner Airbill Number: _____
 Form filled out by: AVICC 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						
1/3/23	1026	LDW23-IT1275	4	Sediment	X						
	1235	LDW23-SC1226A	4		X						
	1235	LDW23-SC1226C	4		X						
Total Number of Containers			12	Purchase Order / Statement of Work # <u>APJ-110222-ACC5-ARL</u>							

1) Released by: Print name: <u>Amaya Vandewort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>1/3/22 16:25</u>	1) Rec'd by: <u>YARED</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>1/3/22 4:30</u>	2) Released by: Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>1/3/22 4:57</u>	2) Rec'd by: <u>Phillip BA</u> Company: <u>AR</u> Date/Time: <u>1/03/23 16:57</u>
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To be completed by Laboratory upon sample receipt:

Date of receipt: <u>1/03/23 16:57</u>	Laboratory W.O. #: <u>23A0042</u>
Condition upon receipt: <u>good</u>	Time of receipt: <u>16:57</u>
Cooler temperature: <u>5.6°C</u>	Received by: <u>Phillip Bates</u>

1 of AV 2340880
X2 23F0143

Tier 2 SS

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3434

Project/Client Name: LDW AOC5 MR Phase I
 Project Number: 210075-01.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dunhoo Shipping Date: 14 2023
 Shipper: courier Airbill Number: ---
 Form filled out by: S. Replinger 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								
14-7-2023	0855	LDW23-SS1269	4	Sediment	X								
	0910	LDW23-SS1275	4		X								
	1320	LDW23-SS1274	4		X								
	1333	LDW23-SS1273	4		X								
	1430	LDW23-SS1230	4		X								
Total Number of Containers			20	Purchase Order / Statement of Work # APS-110222-AOC5-ARL									

1) Released by: <u>Amara Vandervort</u> Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>11/4/23 16:18</u>	1) Rec'd by: <u>YARED</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>1/4/23 4:18</u>	2) Released by: <u>YARED</u> Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>1/4/23 4:</u>	2) Rec'd by: <u>RW</u> Company: <u>ARL</u> Date/Time: <u>1/4/23 1651</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:

2340086 23F0143

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

TIER 2
03 4-13

Project/Client Name: ADCS MR PROJ 1
Project Number: 210075 01.02
Contact Name: Angela Valdearrosa
Sampled By: Windward

Ship to: ARL
Attn: THE SHARON
Shipper: COLNET
Form filled out by: WIK
Shipping Date: 11/12/23
Airbill Number:
Turnaround requested: md

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))
					AV	AV	AV	AV	AV	AV	AV	AV	AV	AV	
11/4/23	17:18	[Redacted]		sediment	X	X	X	X	X	X	X	X	X	X	
11/4/23	17:18	[Redacted]			X	X	X	X	X	X	X	X	X	X	
11/4/23	17:18	[Redacted]			X	X	X	X	X	X	X	X	X	X	

Total Number of Containers: 12 Purchase Order / Statement of Work # ADT-11012-AD5 ALL

1) Released by: Print name: <u>Angela Valdearrosa</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>11/4/23 11:01 AM</u>	2) Recd by: <u>[Signature]</u> Company: Date/Time: <u>11/4/23 4:18 PM</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Recd by: Company: Date/Time:
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Tel: (206) 478-1364
Fax: (206) 217-9443

To be completed by Laboratory upon sample receipt:

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

Mail - Jacob Walter - Outlook

1/5/23, 12:28 PM

https://outlook.office.com/mail/inbox/id/AADkAGQ5NjEzZWY2LWFjOGUINGoyZC05ZTA2LTg3MzYyODU1NGUzMGAAQAO2ZH3WVXXiEkzhtublpjms... 1-1

23A total

TIER 2

No 3994

23F0143 CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: AOC5 MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandenoort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dunning Shipping Date: 11/5/23
 Shipper: Courier Airbill Number:
 Form filled out by: AV/CC Turnaround requested: std

11/5/23

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						
11/5/23	11:20	LDW23-SC1205B	3	sediment	X						
	1446	LDW23-SC1109A	3		X						
	1446	LDW23-SC1109C	3		X						
AV 11/5/23											
Total Number of Containers			9	Purchase Order / Statement of Work # APJ-110222-AOC5-ARL							

1) Released by: <u>Amara Vandenoort</u> Signature: <u>Amara Vandenoort</u> Company: <u>Windward</u> Date/Time: <u>11/5/23 1605</u>	1) Rec'd by: <u>YARED</u> Signature: <u>YARED</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>11/5/23 4:05</u>	2) Released by: <u>YARED</u> Signature: <u>YARED</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>11/5/23 4:</u>	2) Rec'd by: <u>LB</u> Signature: <u>LB</u> Company: <u>ARL</u> Date/Time: <u>11/5/23 1630</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:

1 of 1 23A0135

23F0143
CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tier 2
No 3440

Project/Client Name: AOLS MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dronihoo Shipping Date: 1/6/23
 Shipper: Carter Airbill Number: _____
 Form filled out by: K. McPeck 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)]
1/6/23	0845	LOW23-SS1196	4	Sediment	X							
	0901	-SS1195	4		X							
	0919	-SS1187	4		X							
1024	1008 PM	-SS1243	4		X							

Total Number of Containers			16	Purchase Order / Statement of Work # <u>APJ-110222-AOLS-ARL</u>								

1) Released by: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>1/6/23 17:03</u>	1) Rec'd by: <u>VAREJ</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>1/6/23 4:55</u>	2) Released by: <u>VAREJ</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>1/6/23 17:26</u>	2) Rec'd by: <u>Jacob Walter</u> Signature: <u>[Signature]</u> Company: <u>AR, LLC</u> Date/Time: <u>1/6/23 17:26</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:

1 of 1 23A0181

23F0143

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tier 2
No 3456

Project/Client Name: AOC5 MR Phase 1
Project Number: 210075 01.02
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARL
Attn: Sue Dunning Shipping Date: 1/10/23
Shipper: Carver Airbill Number: _____
Form filled out by: K. McPeck 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))
1/10/23	1308	LDW23-SS1063	8 in 4	Sediment	X							
<i>Keep original</i>												
Total Number of Containers			Purchase Order / Statement of Work # <u>APT-110222-AOC5-ARL</u>									

1) Released by: <u>Amara Vandervort</u> Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>1/10/23 16:45</u>	1) Rec'd by: <u>YARED</u> Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>01/10/23 4:45</u>	2) Released by: <u>[Signature]</u> Print name: <u>YARED</u> Signature: <u>[Signature]</u> Company: <u>YA YA SAFETY</u> Date/Time: <u>01/10/23 1710</u>	2) Rec'd by: <u>Jacob Walter</u> Print name: <u>Jacob Walter</u> Signature: <u>[Signature]</u> Company: <u>AR, LLC</u> Date/Time: <u>01/10/23 1710</u>
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200 West Mercer Street
Suite 401
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:

23F0143

23A0294

TIER 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3964

Project/Client Name: A005 MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dummho
 Shipper: Counter
 Form filled out by: AVICC
 Shipping Date: 11/23/23
 Airbill Number: 1113123
 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						
1/13/23	0946	LDW23-SC1038A	4 ^c 3	sediment	X						
	0946	LDW23-SC1038C	4 ^c 3		X						
	1035	LDW23-SC1023A	3 ^c 4		X						
	1035	LDW23-SC1023C	3 ^c 4		X						
	1120	LDW23-SC1022B	3		X						
	1247	LDW23-SC1017A	3		X						
✓	1247	LDW23-SC1017C	3		X						
AV			11/13/23								
Total Number of Containers			23								
			Purchase Order / Statement of Work #								

1) Released by: Print name: <u>Amara Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>11/13/23 16:38</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>AR</u> Date/Time: <u>11/13/23 16:38</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: 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:

2340314 23F0143

TIER 2

No 3967

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: AOC5 MR Phatel
 Project Number: 210075 01 02
 Contact Name: Amara Vandervort
 Sampled By: windward

Ship to: ARL
 Attn: Sue Dunning
 Shipper: Cooner
 Form filled out by: AV/CC
 Shipping Date: 11/16/23
 Airbill Number: _____
 Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Archive	Comments / Instructions [Jar tag number(s)]
11/16/23	1111	LDW23-SC1016B	3	sediment	X							
	1146	LDW23-SC1011B	3		X							
	1229	LDW23-SC1008B	3		X							
	1229	LDW23-SC1006B	3		X							
	1313	LDW23-SC1012A	3		X							
	1313	LDW23-SC1012C	3		X							

[Handwritten signature]
 11/16/23

Total Number of Containers: 15 Purchase Order / Statement of Work # APJ-110222-AOC5-ARL

1) Released by:
 Print name: Amara Vandervort
 Signature: [Signature]
 Company: Windward
 Date/Time: 11/16/23 16:35

1) Rec'd by: [Signature]
 Company: AR
 Date/Time: 11/16/23 16:35

2) Released by:
 Print name:
 Signature:
 Company:
 Date/Time:

2) Rec'd by:
 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:

23F0143

Tier 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3978

Project/Client Name: AOC5 MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandervoort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dunne Shipping Date: 11/7/23
 Shipper: Corner Airbill Number: _____
 Form filled out by: AV 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))	
11/7/23	1033	LOW23-SC1170B	3	Sediment	X						
	1108	LOW23-SC1169A	3		X						
	1108	↓ -SC1169B	3		X						
11/7/23	1108	LOW23-SC1169D	3	Sediment	X						
	1437	LOW23-SC1162A	4		X						
11/7/23	1437	LOW23-SC1162C	4	Sediment	X						
Total Number of Containers			20	Purchase Order / Statement of Work # APJ-110222-AOC5-ARL							
1) Released by: <u>Amara Vandervoort</u> Print name: <u>Amara Vandervoort</u> Signature: <u>Amara Vandervoort</u> Company: <u>Windward</u> Date/Time: <u>11/7/23 16:46</u>			1) Rec'd by: <u>Phillip</u> Company: <u>AR</u> Date/Time: <u>11/7/23 16:46</u>			2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____			2) Rec'd by: _____ Company: _____ Date/Time: _____		

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To be completed by Laboratory upon sample receipt:

Date of receipt: <u>11/7/23</u>	Laboratory W.O. #: <u>23A0329</u>
Condition upon receipt: <u>good</u>	Time of receipt: <u>16:46</u>
Cooler temperature: <u>5.2°C</u>	Received by: <u>Phillip Bates</u>

23F0143

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 4055

Project/Client Name: AOC5 MR Phase 1
 Project Number: 210075.01.02
 Contact Name: Amara Vandervoort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Dunham Shipping Date: 3/2/23
 Shipper: Carrier Airbill Number: _____
 Form filled out by: TDO/AV 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)]
					PCBs	Sms SUOCS	Sms Metals	TOC	Total Solids	DIF	Archive	
03.02.23	0933	LDW23-SS1000	4	Sediment	X	X	X	X	X	NA	X	
	0950	LDW23-SS1037	4	Sediment	X	X	X	X	X	X	X	
	1010	LDW23-SS1036	4	Sediment	X	X	X	X	X	NA	X	
	1022	LDW23-SS1044	4	Sediment	X	X	X	X	X	NA	X	
	1032	LDW23-SS1048	4	Sediment	X	X	X	X	X	NA	X	
	1041	LDW23-SS1054	4	Sediment	X	X	X	X	X	NA	X	
	1050	LDW23-SS1050	4	Sediment	X	X	X	X	X	NA	X	
	1150	LDW23-SC1054	3		X	-	-	X	-	-	X	
	1227	LDW23-SC1048	3		X	-	-	X	-	-	X	
	1409	LDW23-SC1036	3	Sediment	X	-	-	X	-	-	X	
			Total Number of Containers	37	Purchase Order / Statement of Work # APJ-110222-AOC5-ARL							
1) Released by: <u>Amara Vandervoort</u> Print name: <u>Amara Vandervoort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>3/2/2023 16:34</u>			1) Rec'd by: <u>Philip [Signature]</u> Company: <u>AR</u> Date/Time: <u>3/2/23 16:34</u>			2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____			2) Rec'd by: _____ Company: _____ Date/Time: _____			

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To be completed by Laboratory upon sample receipt:

Date of receipt: <u>3/2/23</u>	Laboratory W.O. #: <u>230071</u>
Condition upon receipt: <u>good</u>	Time of receipt: <u>16:34</u>
Cooler temperature: <u>4, 2, 3</u>	Received by: <u>Philip Bates</u>

23F0143

Tier 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 4057

of 23C0145

Client Name: AOC5 MR Phase 1

Project Number: 210075-01.02

Contact Name: Amara Vandervort

Sampled By: Windward

Ship to: ARL

Attn: Sue Demihod Shipping Date: 3/13/23

Shipper: Courier Airbill Number:

Form filled out by: TD 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))
03.03.23	1058	LDW23-SS 1113	4	Sediment	X							
03.03.23	1107	LDW23-SS 1119	4	Sediment	X							
AV 3/13/23												
Total Number of Containers			8	Purchase Order / Statement of Work # <u>APS-110222-AOC5-ARL</u>								
1) Released by: <u>Amara Vandervort</u>			1) Rec'd by: <u>PWILLIP</u>			2) Released by:			2) Rec'd by:			
Print name: <u>Amara Vandervort</u>			Company: <u>AR</u>			Print name:			Company:			
Signature: <u>[Signature]</u>			Date/Time: <u>3/13/23 16:35</u>			Signature:			Date/Time:			
Company: <u>Windward</u>						Company:						
Date/Time: <u>3/13/23 1635</u>						Date/Time:						

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

To be completed by Laboratory upon sample receipt:



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

23F0143

Tier 2

31 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3985

Project/Client Name: AOC5 MR Phase 1
 Project Number: 210075.0102
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARL
 Attn: Sue Ann Hood Shipping Date: 4.11.2023
 Shipper: hand del'd. Airbill Number: _____
 Form filled out by: TTO 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))
04.10.23	1650	LDW23-SS1042	4	sediment	X							
04.11.23	1438	LDW23-SS1067	4	↓	X							
04.11.23	1543	LDW23-SS1050	4	↓	X							
Total Number of Containers			12	Purchase Order / Statement of Work # <u>APT-110222-AOC5-ARL</u>								

1) Released by: Print name: <u>Suzanne Reisinger</u> Signature: <u>[Signature]</u> Company: <u>Windward Env.</u> Date/Time: <u>4.11.2023 1750</u>	1) Rec'd by: <u>Jacob Walter</u> Company: <u>AR, LLC</u> Date/Time: <u>04/12/23 0717</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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To be completed by Laboratory upon sample receipt:

Date of receipt: <u>4/12/23</u>	Laboratory W.O. #: <u>23D0255</u>
Condition upon receipt: <u>good</u>	Time of receipt: <u>7:17</u>
Cooler temperature: <u>2.90C</u>	Received by: <u>Jacob Walter</u>



Cooler Receipt Form

ARI Client: windward
 COC No(s): 335d, 3355 NA JSW
 Assigned ARI Job No: 2264384
 Preliminary Examination Phase: 23F0143

Project Name: WZ ACS MR phase 1
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ NA

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) _____
 Time 1647 23 21 !!
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 9708
 Cooler Accepted by: R Date: 12/14/22 Time: 1647

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: JSW Date: 12/15/22 Time: 1030 Labels checked by: JSW

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward / Anchor QEA

Project Name: AOC5 MR Phase I

COC No(s): 105H PIB

Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No: 23A00NR

Tracking No: _____ NA

Preliminary Examination Phase: 23F0143

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:57

5.8 4.6 5.6 5.1 5.5

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 7009708

Cooler Accepted by: PIB

Date: 1/03/23

Time: 16:57

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: PIB Date: 1/04/23 Time: 11:50 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Cooler Receipt Form

ARI Client: windward Project Name: AOC5 MR Phase 1
 COC No(s): 3434 & 4013 (NA) Pr Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Assigned ARI Job No: 2340086 Tracking No: _____ TR

Preliminary Examination Phase: 23F0143

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)
 Time 1650 5.9° 3.9° 3.1° 4.0° 4.6°
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 9708
 Cooler Accepted by: Pr Date: 1/04/23 Time: 1651

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: ISW Date: 1/05/23 Time: 1359 Labels checked by: ISW

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

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
Additional Notes, Discrepancies, & Resolutions:			
By:	Date:		



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Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward
COC No(s): _____ (NA)
Assigned ARI Job No: 23A0101

Project Name: AOES MR Project
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ (NA)

Preliminary Examination Phase: 23F0143

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

Time _____
If cooler temperature is out of compliance fill out form 00070F

5.4 3.5 1.9 4.4 4.2 5.7
Temp Gun ID#: 2009708

Cooler Accepted by: [Signature] Date: 1/05/23 Time: 1630

Complete custody forms and attach all shipping documents

Log-in Phase:

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

Samples Logged by: [Signature] Date: 01/06/23 Time: 9:30 Labels checked by: TCS

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
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Cooler Receipt Form

ARI Client: Anchar QEA
COC No(s): 3440
Assigned ARI Job No: 23A0135

Project Name: AOCS MR Phase 1
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Tracking No: _____ NA

Preliminary Examination Phase: 23F0143

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

Time 1726 2.9 4.1 2.0 5.4 1.8 0.4
If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 7009708

Cooler Accepted by: JS Date: 01/06/03 Time: 1726

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: JS Date: 01/07/03 Time: 1125 Labels checked by: JS

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchar
 COC No(s): 3456 NA
 Assigned ARI Job No: 23A0181
 Preliminary Examination Phase: 23F0143

Project Name: AOC5 MR Phase 1
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: _____ NA

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-8.0 °C for chemistry)

Time 17:00 5.7 3.1 3.9
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 3009708

Cooler Accepted by: TCS Date: 01/10/23 Time: 17:00

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO
 What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____
 Was sufficient ice used (if appropriate)? NA YES NO
 How were bottles sealed in plastic bags? Individually Grouped NO
 Did all bottles arrive in good condition (unbroken)? YES NO
 Were all bottle labels complete and legible? YES NO
 Did the number of containers listed on COC match with the number of containers received? YES NO
 Did all bottle labels and tags agree with custody papers? YES NO
 Were all bottles used correct for the requested analyses? YES NO
 Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO
 Were all VOC vials free of air bubbles? NA YES NO
 Was sufficient amount of sample sent in each bottle? YES NO
 Date VOC Trip Blank was made at ARI: NA
 Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: Daniel Bannin Date: 01/10/23 Time: 9:08 Labels checked by: TCS

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor REAL/wood

Project Name: ACC5 MR Phase 1

COC No(s): 3964 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23A0294

Tracking No: _____ (NA)

Preliminary Examination Phase: 23F0143

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 5.8 4.6 5.6

Time 17:00

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 7009708

Cooler Accepted by: PIB Date: 1/13/23 Time: 16:38

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JSW Date: 1/14/23 Time: 16:34 Labels checked by: JSW

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchok REA/windward

Project Name: LDW AOC5 MR Phase 1

COC No(s): 3967 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22A034

Tracking No: _____ (NA)

Preliminary Examination Phase: 23F0143

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 16:55

4.3 4.6 5.6 4.8

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 7009708

Cooler Accepted by: PIB

Date: 1/16/23

Time: 16:35

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: JS Date: 01/17/23 Time: 0838 Labels checked by: JS

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Amundt GEA/Windward

Project Name: LOW AOC9 MA Phase 1

COC No(s): 3978 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23A0329

Tracking No: _____ NA

Preliminary Examination Phase: 23F0143

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 17:10 5.0 4.1 3.9 5.1 5.2

If cooler temperature is out of compliance fill out form 00070F

Cooler Accepted by: PLB Date: 11/17/23 Time: 16:46

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: PLB Date: 11/18/23 Time: 9:40 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward / Anchor QEA

Project Name: AOCs MR Phase 1

COC No(s): 4059 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 23C0071

Tracking No: _____ NA

Preliminary Examination Phase: 23E043

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 4.5 2.3

Time 16:50

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 5009708

Cooler Accepted by: PIB

Date: 3/2/23

Time: 16:34

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: NA

Were the sample(s) split by ARI? NA YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: PIB

Date: 3/3/23

Time: 10:52

Labels checked by: PIB

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor Inland Project Name: AOC5 MR Phase 1
 COC No(s): 4457 ~~NA~~ Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Assigned ARI Job No: 230105 ~~IR~~ Tracking No: _____ ~~NA~~

Preliminary Examination Phase: 03/03/03 23F0143

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

Time 1650 1.8 2.4
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 70009708

Cooler Accepted by: JW for PIR Date: 03/07/03 Time: 1635

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: JW Date: 03/07/03 Time: 1618 Labels checked by: JW

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

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

Additional Notes, Discrepancies, & Resolutions:

 By: _____ Date: _____



Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward/Anchor
COC No(s): 3985 NA
Assigned ARI Job No: 2300285

Project Name: AOCS MR Phase 1
Delivered by: Fed-Ex UPS Courier (Hand Delivered Other: After hours Drop off)
Tracking No: NA

Preliminary Examination Phase: 23F0143

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

Time 0717 4.9 2.9
If cooler temperature is out of compliance fill out form 00070F
Temp Gun ID#: J0009708

Cooler Accepted by: JAW Date: 04/11/23 Time: 0717

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: PTB Date: 4/12/23 Time: 9:25 Labels checked by: PTB

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Anchor QEA, LLC

1201 3rd Ave, Suite 2600

Seattle, WA 98101

Project: AOC5 MR Phase 1

Project Number: 210075-01.02 Task 7.2

Project Manager: Ali Judkins

Reported:

08/01/2023 11:57

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
23F0143-01	LDW23-SC1156A	Solid	12/14/22 10:44	06/06/23 15:53
23F0143-02	LDW23-SC1226A	Solid	01/03/23 12:35	06/06/23 15:53
23F0143-03	LDW23-SS1269	Solid	01/04/23 08:55	06/06/23 15:53
23F0143-04	LDW23-SS1275	Solid	01/04/23 09:10	06/06/23 15:53
23F0143-05	LDW23-SS1274	Solid	01/04/23 13:20	06/06/23 15:53
23F0143-06	LDW23-SS1230	Solid	01/04/23 14:30	06/06/23 15:53
23F0143-07	LDW23-SC1221A	Solid	01/04/23 13:38	06/06/23 15:53
23F0143-08	LDW23-SC1184B	Solid	01/04/23 14:58	06/06/23 15:53
23F0143-09	LDW23-SC1205B	Solid	01/05/23 11:20	06/06/23 15:53
23F0143-10	LDW23-SS1195	Solid	01/06/23 09:01	06/06/23 15:53
23F0143-11	LDW23-SS1243	Solid	01/06/23 10:24	06/06/23 15:53
23F0143-12	LDW23-SS1063	Solid	01/10/23 13:08	06/06/23 15:53
23F0143-13	LDW23-SC1038A	Solid	01/13/23 09:46	06/06/23 15:53
23F0143-14	LDW23-SC1023A	Solid	01/13/23 10:35	06/06/23 15:53
23F0143-15	LDW23-SC1022B	Solid	01/13/23 11:20	06/06/23 15:53
23F0143-16	LDW23-SC1017A	Solid	01/13/23 12:47	06/06/23 15:53
23F0143-17	LDW23-SC1016B	Solid	01/16/23 11:11	06/06/23 15:53
23F0143-18	LDW23-SC1011B	Solid	01/16/23 11:46	06/06/23 15:53
23F0143-19	LDW23-SC1006B	Solid	01/16/23 12:29	06/06/23 15:53
23F0143-20	LDW23-SC1012A	Solid	01/16/23 13:13	06/06/23 15:53
23F0143-21	LDW23-SC1170B	Solid	01/17/23 10:33	06/06/23 15:53
23F0143-22	LDW23-SC1169A	Solid	01/17/23 11:08	06/06/23 15:53
23F0143-23	LDW23-SC1169B	Solid	01/17/23 11:08	06/06/23 15:53
23F0143-24	LDW23-SC1162A	Solid	01/17/23 14:37	06/06/23 15:53
23F0143-25	LDW23-SS1056	Solid	03/02/23 10:50	06/06/23 15:53
23F0143-26	LDW23-SS1113	Solid	03/03/23 10:58	06/06/23 15:53
23F0143-27	LDW23-SS1119	Solid	03/03/23 11:07	06/06/23 15:53
23F0143-28	LDW23-SS1042	Solid	04/10/23 16:50	06/06/23 15:53
23F0143-29	LDW23-SS1067	Solid	04/11/23 14:38	06/06/23 15:53
23F0143-30	LDW23-SS1050	Solid	04/11/23 15:43	06/06/23 15:53



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

Project: AOC5 MR Phase 1
Project Number: 210075-01.02 Task 7.2
Project Manager: Ali Judkins

Reported:
01-Aug-2023 11:57

Case Narrative

Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Work Order: 23F0143

Sample receipt

Samples as listed on the preceding page were pulled from frozen archive on 06-Jun-2023 15:53 and logged under ARI work order 23F0143. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Dioxin/Furans - EPA Method 1613

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen.

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 or EMPC response below the reporting limit. Associated positive results have been "B"-flagged.

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

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

The duplicate (DUP) relative percent differences (RPD) outside advisory control limits are flagged on the summary sheet.

Samples with "E"-values for OCDD or OCDF are not required to be reanalyzed if the peak is not saturated.

Results that have been "X" flagged indicate possible interference from CDPEs (chlorinated diphenyl ethers).



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
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
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: 23F0143
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23F0143-02 B File ID: 23073108
 Sampled: 01/03/23 12:35 Prepared: 06/14/23 12:00 Analyzed: 07/31/23 17:52
 % Solids: 55.16 Preparation: EPA 1613 Initial/Final: 18.15 g Wet / 20 uL
 Result Basis: Dry Sequence: SLG0303 Calibration: GG00074
 Batch: BLF0318 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	0.855	0.655-0.886	0.099	0.999	0.564	ng/kg	X, J
1746-01-6	2,3,7,8-TCDD	1	0.592	0.655-0.886	0.079	0.999	0.312	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.146	1.318-1.783	0.109	0.999	0.465	ng/kg	EMPC, J
57117-31-4	2,3,4,7,8-PeCDF	1	1.587	1.318-1.783	0.099	0.999	0.818	ng/kg	J
40321-76-4	1,2,3,7,8-PeCDD	1	1.451	1.318-1.783	0.215	0.999	0.995	ng/kg	J
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.343	1.054-1.426	0.125	0.999	2.95	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.279	1.054-1.426	0.127	0.999	1.03	ng/kg	
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.335	1.054-1.426	0.128	0.999	1.51	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.969	1.054-1.426	0.149	0.999	0.903	ng/kg	EMPC, J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.265	1.054-1.426	0.192	0.999	0.924	ng/kg	J
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.201	1.054-1.426	0.190	0.999	3.47	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.105	1.054-1.426	0.204	0.999	2.43	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.082	0.893-1.208	0.123	0.999	22.0	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.005	0.893-1.208	0.177	0.999	1.90	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.025	0.893-1.208	0.279	2.50	100	ng/kg	B
39001-02-0	OCDF	1	0.918	0.757-1.024	0.131	2.50	52.0	ng/kg	B
3268-87-9	OCDD	1	0.846	0.757-1.024	0.367	9.99	802	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	4.22	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	2.42	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	6.48	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	3.34	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	31.3	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	27.3	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	75.2	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	211	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 4.44
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 4.44



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

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>23F0143</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>AOC5 MR Phase 1</u>
Matrix: <u>Sediment</u>	Laboratory ID: <u>23F0143-02</u>
Sampled: <u>01/03/23 12:35</u>	File ID: <u>23073108</u>
Solids Wt%: <u>55.16</u>	Prepared: <u>06/14/23 12:00</u>
Result Basis: <u>Dry</u>	Analyzed: <u>07/31/23 17:52</u>
Batch: <u>BLF0318</u>	Preparation: <u>EPA 1613</u>
	Initial/Final: <u>18.15 g / 20 uL</u>
	Sequence: <u>SLG0303</u>
	Calibration: <u>GG00074</u>
	Instrument: <u>AUTOSPEC01</u>
	Column: <u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.780	0.655-0.886	0.083	63.7	24 - 169 %	
13C12-2,3,7,8-TCDD		0.788	0.655-0.886	0.118	80.2	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.572	1.318-1.783	0.101	77.4	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.547	1.318-1.783	0.108	79.4	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.635	1.318-1.783	0.096	81.6	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.516	0.434-0.587	0.120	64.6	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.534	0.434-0.587	0.100	57.6	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.513	0.434-0.587	0.121	64.1	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.516	0.434-0.587	0.140	65.9	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.240	1.054-1.426	0.130	71.4	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.204	1.054-1.426	0.112	66.1	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.451	0.374-0.506	0.133	62.7	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.447	0.374-0.506	0.175	64.3	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.087	0.893-1.208	0.213	80.2	23 - 140 %	
13C12-OCDD		0.896	0.757-1.024	0.243	88.9	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.049	83.2	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:21:05 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
 Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.464	1.001	1.335e3	1.561e3	0.951	0.855	0.770	1018	1508	1.96e4	2.49e4	19.2	16.5	NO	MM	bd	0.283
12378-PeCDF	29.604	1.000	1.190e3	1.038e3	0.963	1.146	1.550	1360	1262	1.56e4	1.60e4	11.5	12.7	YES	bb	bb	0.233
23478-PeCDF	30.941	1.000	2.569e3	1.619e3	1.072	1.587	1.550	1360	1262	3.73e4	2.54e4	27.5	20.1	NO	db	db	0.409
123478-HxCDF	34.584	1.001	6.674e3	4.970e3	1.142	1.343	1.240	1665	868	1.02e5	8.14e4	61.1	93.8	NO	dd	bd	1.478
234678-HxCDF	35.564	0.999	3.360e3	2.517e3	1.138	1.335	1.240	1665	868	3.34e4	2.62e4	20.1	30.2	NO	MM	bb	0.758
123678-HxCDF	34.729	1.001	2.354e3	1.840e3	1.100	1.279	1.240	1665	868	3.39e4	2.83e4	20.4	32.5	NO	db	db	0.516
123789-HxCDF	36.600	1.000	1.433e3	1.479e3	1.066	0.969	1.240	1665	868	1.87e4	1.60e4	11.2	18.4	YES	bb	bb	0.452
1234678-HpCDF	38.484	1.001	4.390e4	4.057e4	1.210	1.082	1.050	1388	1181	7.22e5	6.43e5	520.2	544.5	NO	bb	bb	11.016
1234789-HpCDF	40.678	1.001	2.871e3	2.858e3	1.213	1.005	1.050	1388	1181	3.69e4	3.90e4	26.6	33.0	NO	bd	bd	0.951
OCDF	44.819	1.006	8.180e4	8.907e4	1.391	0.918	0.890	977	841	9.66e5	1.05e6	988.7	1247.8	NO	bb	bd	26.048
2378-TCDD	26.113	1.002	5.422e2	9.166e2	1.197	0.592	0.770	968	907	7.32e3	1.63e4	7.6	18.0	YES	bd	bd	0.156
12378-PeCDD	31.186	1.000	1.845e3	1.272e3	1.129	1.451	1.550	1446	1854	2.22e4	1.74e4	15.4	9.4	NO	bb	bb	0.498
123478-HxCDD	35.720	1.001	1.550e3	1.225e3	0.917	1.265	1.240	1487	1694	2.67e4	2.03e4	18.0	12.0	NO	bd	bd	0.462
123678-HxCDD	35.832	1.000	6.332e3	5.272e3	0.944	1.201	1.240	1487	1694	1.04e5	8.33e4	69.8	49.2	NO	dd	db	1.738
123789-HxCDD	36.210	1.011	3.781e3	3.422e3	0.869	1.105	1.240	1487	1694	6.10e4	5.62e4	41.0	33.2	NO	bb	bb	1.217
1234678-HpCDD	39.943	1.000	1.537e5	1.499e5	1.237	1.025	1.050	2218	2176	2.28e6	2.19e6	1028.0	1004.7	NO	bb	bb	50.068
OCDD	44.590	1.000	1.053e6	1.244e6	1.212	0.846	0.890	2198	2255	1.27e7	1.42e7	5764.2	6312.4	NO	bb	bd	401.673
13C-2378-TCDF	25.449	1.007	4.722e5	6.055e5	1.920	0.780	0.770	2097	1598	7.03e6	8.93e6	3351.3	5590.6	NO	bb	bb	63.657
13C-12378-PeCDF	29.593	1.171	6.073e5	3.864e5	1.455	1.572	1.550	1520	1906	9.14e6	5.83e6	6016.4	3060.8	NO	bb	bb	77.427
13C-23478-PeCDF	30.930	1.224	5.795e5	3.746e5	1.363	1.547	1.550	1520	1906	9.03e6	5.84e6	5942.0	3066.0	NO	bb	bb	79.385
13C-123478-HxCDF	34.562	0.955	2.349e5	4.553e5	1.119	0.516	0.510	1840	1448	3.63e6	7.17e6	1970.5	4949.4	NO	bd	bd	64.586
13C-123678-HxCDF	34.707	0.959	2.571e5	4.816e5	1.343	0.534	0.510	1840	1448	3.78e6	7.21e6	2051.8	4981.7	NO	dd	db	57.580
13C-234678-HxCDF	35.587	0.983	2.312e5	4.504e5	1.113	0.513	0.510	1840	1448	3.53e6	6.83e6	1918.7	4720.6	NO	bb	bb	64.131
13C-123789-HxCDF	36.612	1.011	2.055e5	3.983e5	0.959	0.516	0.510	1840	1448	3.25e6	6.34e6	1768.5	4376.2	NO	bb	bb	65.939
13C-1234678-HpCDF	38.461	1.062	1.970e5	4.368e5	1.058	0.451	0.440	1467	1988	3.22e6	7.35e6	2198.6	3698.1	NO	bb	bb	62.686
13C-1234789-HpCDF	40.656	1.123	1.535e5	3.430e5	0.809	0.447	0.440	1467	1988	2.22e6	4.88e6	1512.1	2456.5	NO	bb	bb	64.278
13C-1234-TCDD	25.266	0.000	3.908e5	4.911e5	1.000	0.796	0.770	2027	1007	6.18e6	7.72e6	3049.1	7671.4	NO	bb	bb	100.000
13C-2378-TCDD	26.071	1.032	3.444e5	4.370e5	1.104	0.788	0.770	2027	1007	5.22e6	6.61e6	2577.2	6569.2	NO	bb	bb	80.231
13C-12378-PeCDD	31.175	1.234	3.439e5	2.103e5	0.770	1.635	1.550	875	847	5.05e6	3.11e6	5775.7	3675.3	NO	bb	bb	81.598
13C-123478-HxCDD	35.698	0.986	3.623e5	2.921e5	0.959	1.240	1.240	1470	1589	5.99e6	4.81e6	4074.3	3027.0	NO	bd	bd	71.417
13C-123678-HxCDD	35.821	0.990	3.864e5	3.209e5	1.120	1.204	1.240	1470	1589	5.82e6	4.72e6	3957.5	2968.8	NO	db	dd	66.096
13C-1234678-HpCDD	39.932	1.103	2.554e5	2.349e5	0.640	1.087	1.050	1779	1558	3.98e6	3.67e6	2236.0	2356.2	NO	bb	bb	80.163
13C-OCDD	44.572	1.231	4.457e5	4.977e5	0.555	0.896	0.890	1182	2123	5.67e6	6.28e6	4795.1	2958.0	NO	bb	bb	177.833
13C-123789-HxCDD	36.200	0.000	5.315e5	4.239e5	1.000	1.254	1.240	1470	1589	8.16e6	6.53e6	5553.0	4108.4	NO	bd	bb	100.000
37CL-2378-TCDD	26.099	1.033	3.314e5		1.129			1291		5.09e6		3938.4			bb		33.275

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.961	0.863	4.603e2	5.287e2	1.201	0.871	0.770	1018	1508	7.65e3	8.23e3	7.5	5.5	NO	bb	bb	0.076
1289-TCDF					0.950		0.770	1018	1508								
13468-PECDF	26.876	0.908	1.406e4	9.765e3	1.142	1.439	1.550	748	916	2.03e5	1.39e5	271.5	151.2	NO	db	bb	2.098
12389-PECDF					0.917		1.550	1360	1262								
123468-HXCDF	32.902	0.952	6.060e3	5.243e3	1.332	1.156	1.240	1665	868	9.56e4	7.77e4	57.4	89.5	NO	bb	bb	1.230
1368-TCDD	23.232	0.891	1.090e3	1.520e3	1.148	0.717	0.770	968	907	1.85e4	2.64e4	19.1	29.2	NO	bb	bb	0.291
1289-TCDD					0.955		0.770	968	907								
12479-PECDD	28.523	0.915	3.717e3	2.782e3	2.043	1.336	1.550	1446	1854	3.79e4	2.71e4	26.2	14.6	NO	bb	bb	0.574
12389-PECDD	31.587	1.013	5.053e2	3.429e2	1.326	1.473	1.550	1446	1854	7.37e3	6.87e3	5.1	3.7	NO	db	bb	0.115
124679-HXCDD	33.681	0.944	1.641e4	1.332e4	1.104	1.232	1.240	1487	1694	2.54e5	2.06e5	170.5	121.3	NO	bb	bb	4.117
1234679-HPCDD	38.918	0.975	2.130e5	2.108e5	1.554	1.010	1.050	2218	2176	3.42e6	3.32e6	1542.0	1525.1	NO	bb	bd	55.606
Total-tetrafurans			1.034e4		1.034			1018		1.45e5							2.112
Total-penta1			1.406e4					748		2.03e5							2.098
Total-pentafurans			6.738e3		0.984			1360		1.14e5							1.148
Total-hexafurans			6.962e4		1.155			1665		1.03e6							15.670
Total-heptafurans			1.355e5		1.211			1388		2.17e6							37.633
Total-Furans			3.180e5		1.119			1018		4.63e6							84.709
Total-tetradoxins			4.591e3		1.100			968		7.14e4							1.211
Total-pentadoxins			8.463e3		1.499			1446		1.06e5							1.673
Total-hexadoxins			5.009e4		0.958			1487		6.91e5							13.674
Total-heptadoxins			3.668e5		1.396			2218		5.70e6							105.674
Total-Dioxins			1.483e6		1.203			968		1.92e7							523.904
Total-TEQ			1.801e6					968		2.39e7							608.612
FUNCTION1 PFK			2.180e4					322032		6.13e5							
FUNCTION2 PFK			5.703e5					184069		1.39e6							0.000
FUNCTION3 PFK			1.333e6					236323		2.42e7							0.000
FUNCTION4 PFK			9.214e4					233356		2.91e6							
FUNCTION5 PFK			3.315e4					155104		1.49e6							
FUNCTION1 HXCD...			1.298e3					557		2.08e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			4.682e2					687		8.46e3							0.000
FUNCTION3 OCDPE			2.404e2					615		4.09e3							0.000
FUNCTION4 NCDPE			8.574e3					738		1.44e5							0.000
FUNCTION5 DCDPE			7.290e1					519		1.84e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	22.23	6.759e2	8.639e2	1.034	0.78	0.77	11.8	YES	NO	db	db	0.138
2	Total-tetrafurans	22.12	1.777e2	2.678e2	1.034	0.66	0.77	3.6	YES	NO	bd	bd	0.040
3	1368-TCDF	21.96	4.603e2	5.287e2	1.201	0.87	0.77	7.5	YES	NO	bb	bb	0.076
4	Total-tetrafurans	25.69	1.500e3	1.811e3	1.034	0.83	0.77	19.0	YES	NO	db	db	0.297
5	2378-TCDF	25.46	1.335e3	1.561e3	0.951	0.86	0.77	19.2	YES	NO	MM	bd	0.283
6	Total-tetrafurans	24.76	8.311e2	1.050e3	1.034	0.79	0.77	11.0	YES	NO	db	bb	0.169
7	Total-tetrafurans	24.56	9.497e2	1.381e3	1.034	0.69	0.77	14.5	YES	NO	bd	bb	0.209
8	Total-tetrafurans	24.38	1.556e3	2.160e3	1.034	0.72	0.77	21.0	YES	NO	db	db	0.333
9	Total-tetrafurans	24.21	1.107e3	1.309e3	1.034	0.85	0.77	15.6	YES	NO	dd	dd	0.217
10	Total-tetrafurans	24.14	1.751e3	2.144e3	1.034	0.82	0.77	19.2	YES	NO	dd	dd	0.349

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.88	1.406e4	9.765e3	1.142	1.44	1.55	271.5	YES	NO	db	bb	2.098

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.47	2.221e3	1.539e3	0.984	1.44	1.55	34.7	YES	NO	dd	dd	0.392
2	23478-PeCDF	30.94	2.569e3	1.619e3	1.072	1.59	1.55	27.5	YES	NO	db	db	0.409
3	Total-pentafurans	30.80	1.948e3	1.366e3	0.984	1.43	1.55	22.0	YES	NO	dd	dd	0.346

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.66	6.858e2	5.848e2	1.155	1.17	1.24	5.9	YES	NO	bb	bb	0.162
2	Total-hexafurans	33.11	2.110e4	1.676e4	1.155	1.26	1.24	185.8	YES	NO	bb	bb	4.829
3	123468-HXCDF	32.90	6.060e3	5.243e3	1.332	1.16	1.24	57.4	YES	NO	bb	bb	1.230
4	234678-HxCDF	35.56	3.360e3	2.517e3	1.138	1.34	1.24	20.1	YES	NO	MM	bb	0.758
5	123678-HxCDF	34.73	2.354e3	1.840e3	1.100	1.28	1.24	20.4	YES	NO	db	db	0.516
6	123478-HxCDF	34.58	6.674e3	4.970e3	1.142	1.34	1.24	61.1	YES	NO	dd	bd	1.478
7	Total-hexafurans	33.96	2.938e4	2.314e4	1.155	1.27	1.24	268.1	YES	NO	bb	bb	6.698

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.68	2.871e3	2.858e3	1.213	1.00	1.05	26.6	YES	NO	bd	bd	0.951
2	Total-heptafurans	39.13	8.871e4	8.697e4	1.211	1.02	1.05	1015.0	YES	NO	bb	bb	25.665
3	1234678-HpCDF	38.48	4.390e4	4.057e4	1.210	1.08	1.05	520.2	YES	NO	bb	bb	11.016

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	22.23	6.759e2	8.639e2	1.034	0.78	0.77	11.8	YES	NO	db	db	0.138
2	Total-tetrafurans	22.12	1.777e2	2.678e2	1.034	0.66	0.77	3.6	YES	NO	bd	bd	0.040
3	1368-TCDF	21.96	4.603e2	5.287e2	1.201	0.87	0.77	7.5	YES	NO	bb	bb	0.076
4	Total-tetrafurans	25.69	1.500e3	1.811e3	1.034	0.83	0.77	19.0	YES	NO	db	db	0.297
5	2378-TCDF	25.46	1.335e3	1.561e3	0.951	0.86	0.77	19.2	YES	NO	MM	bd	0.283
6	Total-tetrafurans	24.76	8.311e2	1.050e3	1.034	0.79	0.77	11.0	YES	NO	db	bb	0.169
7	Total-tetrafurans	24.56	9.497e2	1.381e3	1.034	0.69	0.77	14.5	YES	NO	bd	bb	0.209
8	Total-tetrafurans	24.38	1.556e3	2.160e3	1.034	0.72	0.77	21.0	YES	NO	db	db	0.333
9	Total-tetrafurans	24.21	1.107e3	1.309e3	1.034	0.85	0.77	15.6	YES	NO	dd	dd	0.217
10	Total-tetrafurans	24.14	1.751e3	2.144e3	1.034	0.82	0.77	19.2	YES	NO	dd	dd	0.349
11	Total-pentafurans	28.47	2.221e3	1.539e3	0.984	1.44	1.55	34.7	YES	NO	dd	dd	0.392
12	23478-PeCDF	30.94	2.569e3	1.619e3	1.072	1.59	1.55	27.5	YES	NO	db	db	0.409
13	Total-pentafurans	30.80	1.948e3	1.366e3	0.984	1.43	1.55	22.0	YES	NO	dd	dd	0.346
14	Total-hexafurans	33.66	6.858e2	5.848e2	1.155	1.17	1.24	5.9	YES	NO	bb	bb	0.162
15	Total-hexafurans	33.11	2.110e4	1.676e4	1.155	1.26	1.24	185.8	YES	NO	bb	bb	4.829
16	123468-HxCDF	32.90	6.060e3	5.243e3	1.332	1.16	1.24	57.4	YES	NO	bb	bb	1.230
17	234678-HxCDF	35.56	3.360e3	2.517e3	1.138	1.34	1.24	20.1	YES	NO	MM	bb	0.758
18	123678-HxCDF	34.73	2.354e3	1.840e3	1.100	1.28	1.24	20.4	YES	NO	db	db	0.516
19	123478-HxCDF	34.58	6.674e3	4.970e3	1.142	1.34	1.24	61.1	YES	NO	dd	bd	1.478
20	Total-hexafurans	33.96	2.938e4	2.314e4	1.155	1.27	1.24	268.1	YES	NO	bb	bb	6.698
21	1234789-HpCDF	40.68	2.871e3	2.858e3	1.213	1.00	1.05	26.6	YES	NO	bd	bd	0.951
22	Total-heptafurans	39.13	8.871e4	8.697e4	1.211	1.02	1.05	1015.0	YES	NO	bb	bb	25.665
23	1234678-HpCDF	38.48	4.390e4	4.057e4	1.210	1.08	1.05	520.2	YES	NO	bb	bb	11.016
24	OCDF	44.82	8.180e4	8.907e4	1.391	0.92	0.89	988.7	YES	NO	bb	bd	26.048
25	13468-PECDF	26.88	1.406e4	9.765e3	1.142	1.44	1.55	271.5	YES	NO	db	bb	2.098

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk**TD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.27	3.165e2	4.801e2	1.100	0.66	0.77	6.2	YES	NO	bb	bb	0.093
2	Total-tetradoxins	25.05	2.471e2	3.441e2	1.100	0.72	0.77	3.6	YES	NO	bb	db	0.069
3	Total-tetradoxins	24.72	5.406e2	6.834e2	1.100	0.79	0.77	6.9	YES	NO	bb	bb	0.142
4	Total-tetradoxins	24.23	1.167e3	1.450e3	1.100	0.81	0.77	16.8	YES	NO	bd	bb	0.305
5	Total-tetradoxins	23.50	7.289e2	8.611e2	1.100	0.85	0.77	12.5	YES	NO	bb	bb	0.185
6	1368-TCDD	23.23	1.090e3	1.520e3	1.148	0.72	0.77	19.1	YES	NO	bb	bb	0.291
7	Total-tetradoxins	25.70	5.006e2	5.850e2	1.100	0.86	0.77	8.6	YES	NO	bb	bb	0.126

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadoxins	29.83	1.593e3	1.138e3	1.499	1.40	1.55	18.7	YES	NO	bd	dd	0.329
2	12479-PECDD	28.52	3.717e3	2.782e3	2.043	1.34	1.55	26.2	YES	NO	bb	bb	0.574
3	12389-PECDD	31.59	5.053e2	3.429e2	1.326	1.47	1.55	5.1	YES	NO	db	bb	0.115
4	12378-PeCDD	31.19	1.845e3	1.272e3	1.129	1.45	1.55	15.4	YES	NO	bb	bb	0.498
5	Total-pentadoxins	30.51	8.032e2	4.987e2	1.499	1.61	1.55	7.6	YES	NO	bd	bb	0.157

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	33.68	1.641e4	1.332e4	1.104	1.23	1.24	170.5	YES	NO	bb	bb	4.117
2	123789-HxCDD	36.21	3.781e3	3.422e3	0.869	1.10	1.24	41.0	YES	NO	bb	bb	1.217
3	123678-HxCDD	35.83	6.332e3	5.272e3	0.944	1.20	1.24	69.8	YES	NO	dd	db	1.738
4	123478-HxCDD	35.72	1.550e3	1.225e3	0.917	1.27	1.24	18.0	YES	NO	bd	bd	0.462
5	Total-hexadoxins	34.83	1.857e4	1.542e4	0.958	1.20	1.24	128.0	YES	NO	bd	bd	5.209
6	Total-hexadoxins	34.46	3.445e3	2.619e3	0.958	1.32	1.24	37.2	YES	NO	bd	bb	0.929

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.94	1.537e5	1.499e5	1.237	1.03	1.05	1028.0	YES	NO	bb	bb	50.068
2	1234679-HPCDD	38.92	2.130e5	2.108e5	1.554	1.01	1.05	1542.0	YES	NO	bb	bd	55.606

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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 Printed: Tuesday, August 01, 2023 08:21:05 Pacific Daylight Time

ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.27	3.165e2	4.801e2	1.100	0.66	0.77	6.2	YES	NO	bb	bb	0.093
2	Total-tetradoxins	25.05	2.471e2	3.441e2	1.100	0.72	0.77	3.6	YES	NO	bb	db	0.069
3	Total-tetradoxins	24.72	5.406e2	6.834e2	1.100	0.79	0.77	6.9	YES	NO	bb	bb	0.142
4	Total-tetradoxins	24.23	1.167e3	1.450e3	1.100	0.81	0.77	16.8	YES	NO	bd	bb	0.305
5	Total-tetradoxins	23.50	7.289e2	8.611e2	1.100	0.85	0.77	12.5	YES	NO	bb	bb	0.185
6	1368-TCDD	23.23	1.090e3	1.520e3	1.148	0.72	0.77	19.1	YES	NO	bb	bb	0.291
7	Total-tetradoxins	25.70	5.006e2	5.850e2	1.100	0.86	0.77	8.6	YES	NO	bb	bb	0.126
8	Total-pentadoxins	29.83	1.593e3	1.138e3	1.499	1.40	1.55	18.7	YES	NO	bd	dd	0.329
9	12479-PECDD	28.52	3.717e3	2.782e3	2.043	1.34	1.55	26.2	YES	NO	bb	bb	0.574
10	12389-PECDD	31.59	5.053e2	3.429e2	1.326	1.47	1.55	5.1	YES	NO	db	bb	0.115
11	12378-PeCDD	31.19	1.845e3	1.272e3	1.129	1.45	1.55	15.4	YES	NO	bb	bb	0.498
12	Total-pentadoxins	30.51	8.032e2	4.987e2	1.499	1.61	1.55	7.6	YES	NO	bd	bb	0.157
13	124679-HxCDD	33.68	1.641e4	1.332e4	1.104	1.23	1.24	170.5	YES	NO	bb	bb	4.117
14	123789-HxCDD	36.21	3.781e3	3.422e3	0.869	1.10	1.24	41.0	YES	NO	bb	bb	1.217
15	123678-HxCDD	35.83	6.332e3	5.272e3	0.944	1.20	1.24	69.8	YES	NO	dd	db	1.738
16	123478-HxCDD	35.72	1.550e3	1.225e3	0.917	1.27	1.24	18.0	YES	NO	bd	bd	0.462
17	Total-hexadoxins	34.83	1.857e4	1.542e4	0.958	1.20	1.24	128.0	YES	NO	bd	bd	5.209
18	Total-hexadoxins	34.46	3.445e3	2.619e3	0.958	1.32	1.24	37.2	YES	NO	bd	bb	0.929
19	1234678-HpCDD	39.94	1.537e5	1.499e5	1.237	1.03	1.05	1028.0	YES	NO	bb	bb	50.068
20	1234679-HPCDD	38.92	2.130e5	2.108e5	1.554	1.01	1.05	1542.0	YES	NO	bb	bd	55.606
21	OCDD	44.59	1.053e6	1.244e6	1.212	0.85	0.89	5764.2	YES	NO	bb	bd	401.673

Quantify Totals Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	22.23	6.759e2	8.639e2	1.034	0.78	0.77	11.8	YES	NO	db	db	0.138
2	Total-tetrafurans	22.12	1.777e2	2.678e2	1.034	0.66	0.77	3.6	YES	NO	bd	bd	0.040
3	1368-TCDF	21.96	4.603e2	5.287e2	1.201	0.87	0.77	7.5	YES	NO	bb	bb	0.076
4	Total-tetrafurans	25.69	1.500e3	1.811e3	1.034	0.83	0.77	19.0	YES	NO	db	db	0.297
5	2378-TCDF	25.46	1.335e3	1.561e3	0.951	0.86	0.77	19.2	YES	NO	MM	bd	0.283
6	Total-tetrafurans	24.76	8.311e2	1.050e3	1.034	0.79	0.77	11.0	YES	NO	db	bb	0.169
7	Total-tetrafurans	24.56	9.497e2	1.381e3	1.034	0.69	0.77	14.5	YES	NO	bd	bb	0.209
8	Total-tetrafurans	24.38	1.556e3	2.160e3	1.034	0.72	0.77	21.0	YES	NO	db	db	0.333
9	Total-tetrafurans	24.21	1.107e3	1.309e3	1.034	0.85	0.77	15.6	YES	NO	dd	dd	0.217
10	Total-tetrafurans	24.14	1.751e3	2.144e3	1.034	0.82	0.77	19.2	YES	NO	dd	dd	0.349
11	Total-pentafurans	28.47	2.221e3	1.539e3	0.984	1.44	1.55	34.7	YES	NO	dd	dd	0.392
12	23478-PeCDF	30.94	2.569e3	1.619e3	1.072	1.59	1.55	27.5	YES	NO	db	db	0.409
13	Total-pentafurans	30.80	1.948e3	1.366e3	0.984	1.43	1.55	22.0	YES	NO	dd	dd	0.346
14	Total-hexafurans	33.66	6.858e2	5.848e2	1.155	1.17	1.24	5.9	YES	NO	bb	bb	0.162
15	Total-hexafurans	33.11	2.110e4	1.676e4	1.155	1.26	1.24	185.8	YES	NO	bb	bb	4.829
16	123468-HxCDF	32.90	6.060e3	5.243e3	1.332	1.16	1.24	57.4	YES	NO	bb	bb	1.230
17	234678-HxCDF	35.56	3.360e3	2.517e3	1.138	1.34	1.24	20.1	YES	NO	MM	bb	0.758
18	123678-HxCDF	34.73	2.354e3	1.840e3	1.100	1.28	1.24	20.4	YES	NO	db	db	0.516
19	123478-HxCDF	34.58	6.674e3	4.970e3	1.142	1.34	1.24	61.1	YES	NO	dd	bd	1.478
20	Total-hexafurans	33.96	2.938e4	2.314e4	1.155	1.27	1.24	268.1	YES	NO	bb	bb	6.698
21	1234789-HpCDF	40.68	2.871e3	2.858e3	1.213	1.00	1.05	26.6	YES	NO	bd	bd	0.951
22	Total-heptafurans	39.13	8.871e4	8.697e4	1.211	1.02	1.05	1015.0	YES	NO	bb	bb	25.665
23	1234678-HpCDF	38.48	4.390e4	4.057e4	1.210	1.08	1.05	520.2	YES	NO	bb	bb	11.016
24	OCDF	44.82	8.180e4	8.907e4	1.391	0.92	0.89	988.7	YES	NO	bb	bd	26.048
25	13468-PECDF	26.88	1.406e4	9.765e3	1.142	1.44	1.55	271.5	YES	NO	db	bb	2.098
26	Total-tetradioxins	25.27	3.165e2	4.801e2	1.100	0.66	0.77	6.2	YES	NO	bb	bb	0.093
27	Total-tetradioxins	25.05	2.471e2	3.441e2	1.100	0.72	0.77	3.6	YES	NO	bb	db	0.069
28	Total-tetradioxins	24.72	5.406e2	6.834e2	1.100	0.79	0.77	6.9	YES	NO	bb	bb	0.142
29	Total-tetradioxins	24.23	1.167e3	1.450e3	1.100	0.81	0.77	16.8	YES	NO	bd	bb	0.305
30	Total-tetradioxins	23.50	7.289e2	8.611e2	1.100	0.85	0.77	12.5	YES	NO	bb	bb	0.185
31	1368-TCDD	23.23	1.090e3	1.520e3	1.148	0.72	0.77	19.1	YES	NO	bb	bb	0.291
32	Total-tetradioxins	25.70	5.006e2	5.850e2	1.100	0.86	0.77	8.6	YES	NO	bb	bb	0.126
33	Total-pentadioxins	29.83	1.593e3	1.138e3	1.499	1.40	1.55	18.7	YES	NO	bd	dd	0.329
34	12479-PECDD	28.52	3.717e3	2.782e3	2.043	1.34	1.55	26.2	YES	NO	bb	bb	0.574
35	12389-PECDD	31.59	5.053e2	3.429e2	1.326	1.47	1.55	5.1	YES	NO	db	bb	0.115
36	12378-PeCDD	31.19	1.845e3	1.272e3	1.129	1.45	1.55	15.4	YES	NO	bb	bb	0.498
37	Total-pentadioxins	30.51	8.032e2	4.987e2	1.499	1.61	1.55	7.6	YES	NO	bd	bb	0.157

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk**TotalTEQ,Furans,Dioxins**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	124679-HxCDD	33.68	1.641e4	1.332e4	1.104	1.23	1.24	170.5	YES	NO	bb	bb	4.117
39	123789-HxCDD	36.21	3.781e3	3.422e3	0.869	1.10	1.24	41.0	YES	NO	bb	bb	1.217
40	123678-HxCDD	35.83	6.332e3	5.272e3	0.944	1.20	1.24	69.8	YES	NO	dd	db	1.738
41	123478-HxCDD	35.72	1.550e3	1.225e3	0.917	1.27	1.24	18.0	YES	NO	bd	bd	0.462
42	Total-hexadioxins	34.83	1.857e4	1.542e4	0.958	1.20	1.24	128.0	YES	NO	bd	bd	5.209
43	Total-hexadioxins	34.46	3.445e3	2.619e3	0.958	1.32	1.24	37.2	YES	NO	bd	bb	0.929
44	1234678-HpCDD	39.94	1.537e5	1.499e5	1.237	1.03	1.05	1028.0	YES	NO	bb	bb	50.068
45	1234679-HPCDD	38.92	2.130e5	2.108e5	1.554	1.01	1.05	1542.0	YES	NO	bb	bd	55.606
46	OCDD	44.59	1.053e6	1.244e6	1.212	0.85	0.89	5764.2	YES	NO	bb	bd	401.673

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.24	2.180e4					1.9	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.77	3.885e5					6.5	YES		bb		0.000
2	FUNCTION2 PFK	29.24	1.818e5					1.1	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.28	3.032e4					2.0	NO		bb		0.000
2	FUNCTION3 PFK	34.17	1.304e4					1.9	NO		db		0.000
3	FUNCTION3 PFK	34.09	2.024e4					1.8	NO		dd		0.000
4	FUNCTION3 PFK	34.05	7.555e3					1.4	NO		bd		0.000
5	FUNCTION3 PFK	33.98	3.059e3					0.7	NO		bb		0.000
6	FUNCTION3 PFK	33.60	6.063e3					1.1	NO		bb		0.000
7	FUNCTION3 PFK	33.41	2.468e3					0.9	NO		bb		0.000
8	FUNCTION3 PFK	33.37	7.788e3					1.5	NO		db		0.000
9	FUNCTION3 PFK	33.34	1.609e3					0.6	NO		bd		0.000
10	FUNCTION3 PFK	33.04	9.156e3					1.6	NO		bb		0.000
11	FUNCTION3 PFK	32.95	5.016e3					0.8	NO		bb		0.000
12	FUNCTION3 PFK	32.78	1.015e4					1.6	NO		db		0.000
13	FUNCTION3 PFK	32.73	2.632e4					2.8	NO		bd		0.000
14	FUNCTION3 PFK	32.60	1.200e4					2.0	NO		bb		0.000
15	FUNCTION3 PFK	36.59	7.271e4					6.8	YES		bd		0.000
16	FUNCTION3 PFK	36.46	1.630e5					8.0	YES		db		0.000
17	FUNCTION3 PFK	36.40	1.284e5					7.1	YES		dd		0.000
18	FUNCTION3 PFK	36.31	1.039e5					5.9	YES		dd		0.000
19	FUNCTION3 PFK	36.20	7.283e4					5.1	YES		dd		0.000
20	FUNCTION3 PFK	36.15	3.799e4					4.0	YES		dd		0.000
21	FUNCTION3 PFK	36.11	3.319e4					3.5	YES		dd		0.000
22	FUNCTION3 PFK	36.04	1.780e4					2.3	NO		bd		0.000
23	FUNCTION3 PFK	35.74	1.235e3					0.5	NO		bb		0.000
24	FUNCTION3 PFK	35.33	2.537e4					2.3	NO		bb		0.000
25	FUNCTION3 PFK	35.13	2.411e4					1.6	NO		db		0.000
26	FUNCTION3 PFK	35.06	2.271e4					2.0	NO		bd		0.000
27	FUNCTION3 PFK	35.01	2.015e3					0.5	NO		bb		0.000
28	FUNCTION3 PFK	34.86	6.366e3					0.8	NO		bb		0.000
29	FUNCTION3 PFK	34.78	1.330e4					1.9	NO		bb		0.000
30	FUNCTION3 PFK	34.48	2.665e4					2.5	NO		bb		0.000
31	FUNCTION3 PFK	37.47	5.057e4					2.0	NO		bb		0.000
32	FUNCTION3 PFK	37.19	6.745e3					1.2	NO		bb		0.000
33	FUNCTION3 PFK	36.93	2.770e4					2.4	NO		db		0.000
34	FUNCTION3 PFK	36.89	3.832e4					3.3	YES		dd		0.000
35	FUNCTION3 PFK	36.81	4.273e4					4.9	YES		dd		0.000
36	FUNCTION3 PFK	36.78	1.917e5					5.6	YES		dd		0.000
37	FUNCTION3 PFK	36.63	6.887e4					7.5	YES		dd		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.08	8.069e3					1.5	NO		bd		
2	FUNCTION4 PFK	41.60	9.923e3					1.3	NO		bb		
3	FUNCTION4 PFK	41.29	2.975e4					2.0	NO		bb		
4	FUNCTION4 PFK	40.42	1.780e3					0.7	NO		bb		
5	FUNCTION4 PFK	39.78	1.011e4					1.1	NO		bb		
6	FUNCTION4 PFK	39.69	8.190e3					1.5	NO		bb		
7	FUNCTION4 PFK	39.39	5.029e3					1.0	NO		bb		
8	FUNCTION4 PFK	38.13	6.392e3					1.1	NO		bb		
9	FUNCTION4 PFK	42.97	5.548e3					1.0	NO		bb		
10	FUNCTION4 PFK	42.13	7.347e3					1.3	NO		db		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.81	1.739e3					0.7	NO		bb		
2	FUNCTION5 PFK	45.41	1.288e3					0.6	NO		bb		
3	FUNCTION5 PFK	45.02	5.270e3					1.3	NO		bb		
4	FUNCTION5 PFK	44.80	3.929e3					1.2	NO		bb		
5	FUNCTION5 PFK	44.68	1.823e3					0.7	NO		bb		
6	FUNCTION5 PFK	44.37	3.569e3					1.0	NO		bb		
7	FUNCTION5 PFK	44.33	7.287e2					0.5	NO		bb		
8	FUNCTION5 PFK	44.28	5.447e3					1.6	NO		bb		
9	FUNCTION5 PFK	43.59	7.600e3					1.4	NO		bb		
10	FUNCTION5 PFK	43.48	1.754e3					0.8	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.20	8.786e1					2.2	NO		db		0.000
2	FUNCTION1 HXCD...	21.11	9.717e1					3.1	YES		bd		0.000
3	FUNCTION1 HXCD...	26.99	7.473e1					2.6	NO		bb		0.000
4	FUNCTION1 HXCD...	25.83	1.055e2					2.9	NO		bb		0.000
5	FUNCTION1 HXCD...	25.60	5.119e2					14.8	YES		db		0.000
6	FUNCTION1 HXCD...	25.48	1.282e2					4.2	YES		bd		0.000
7	FUNCTION1 HXCD...	25.27	1.062e2					2.5	NO		bb		0.000
8	FUNCTION1 HXCD...	22.34	7.989e1					2.6	NO		db		0.000
9	FUNCTION1 HXCD...	22.27	1.065e2					2.4	NO		bd		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													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.50	7.513e1					2.4	NO		db		0.000
2	FUNCTION2 HPCD...	31.45	1.155e2					3.6	YES		bd		0.000
3	FUNCTION2 HPCD...	30.92	1.033e2					1.9	NO		bb		0.000
4	FUNCTION2 HPCD...	29.73	8.428e1					2.4	NO		bb		0.000
5	FUNCTION2 HPCD...	28.21	9.001e1					2.1	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.02	7.311e1					2.3	NO		bb		0.000
2	FUNCTION3 OCDPE	33.88	1.673e2					4.3	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.92	1.008e2					4.1	YES		bb		0.000
2	FUNCTION4 NCDPE	39.24	7.105e1					2.5	NO		bb		0.000
3	FUNCTION4 NCDPE	38.12	8.403e3					188.2	YES		bb		0.000

ETHERS6

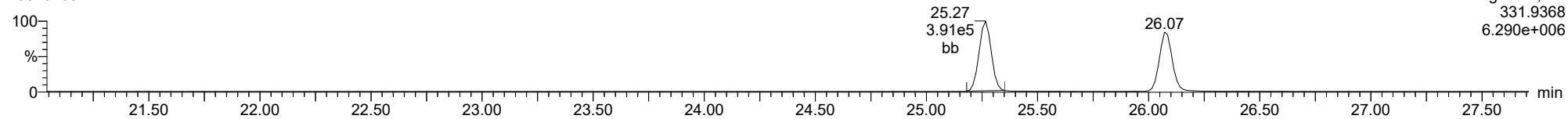
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.57	7.290e1					3.5	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

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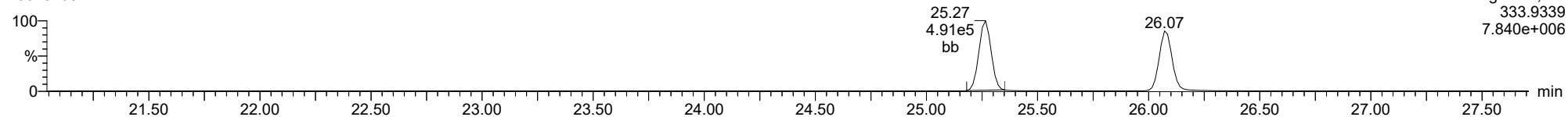
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23073108



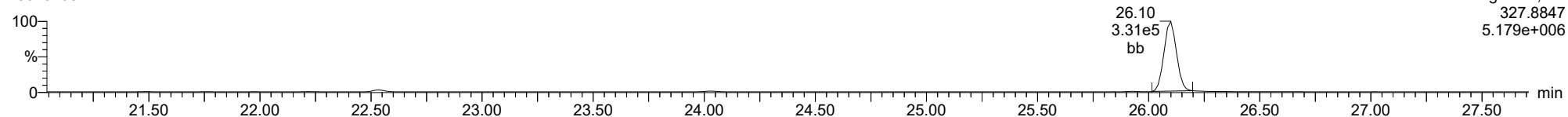
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23073108



37CL-2378-TCDD

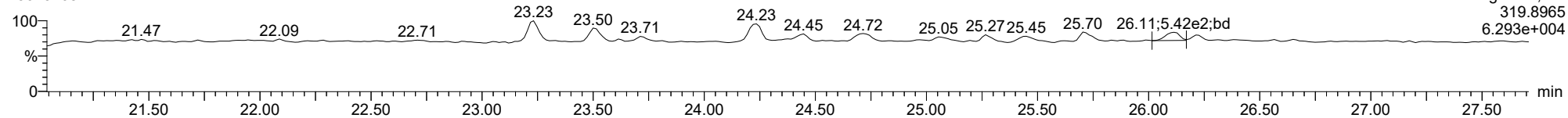
23073108



ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

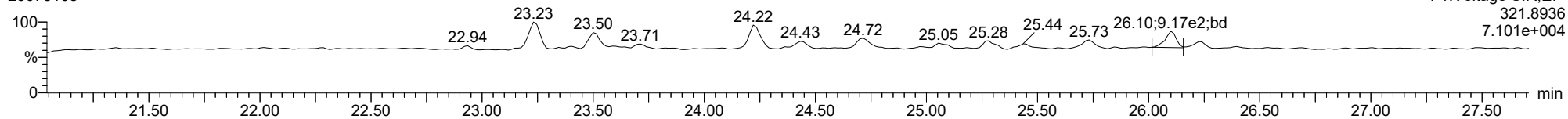
2378-TCDD

23073108



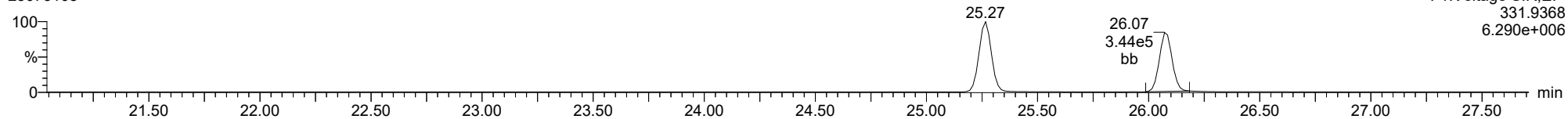
2378-TCDD

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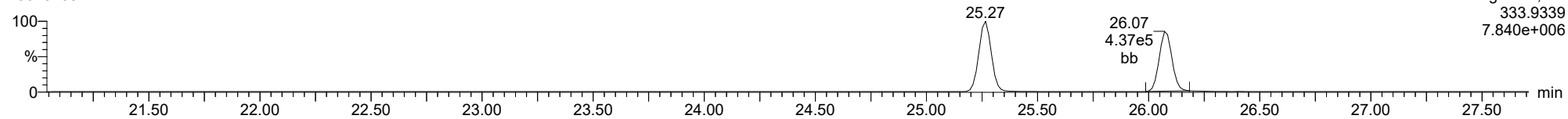
13C-2378-TCDD

23073108



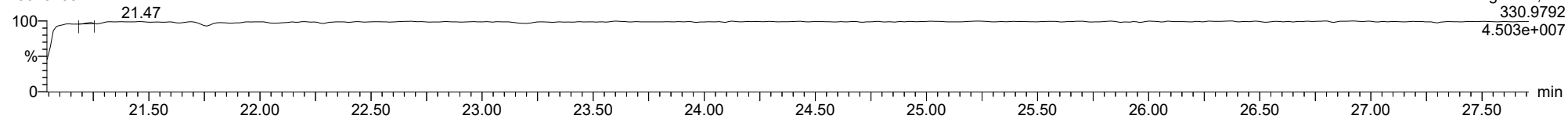
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23073108



FUNCTION1 PFK

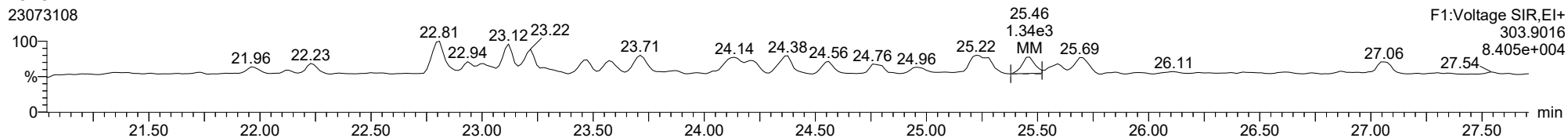
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

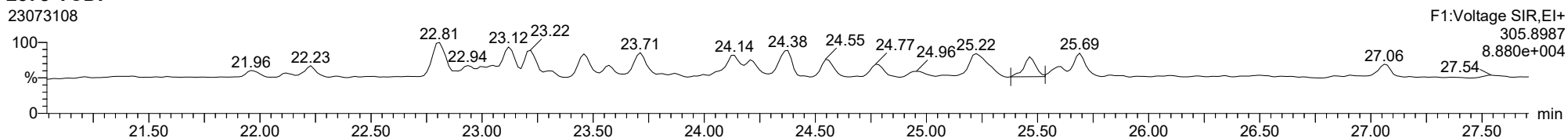
2378-TCDF

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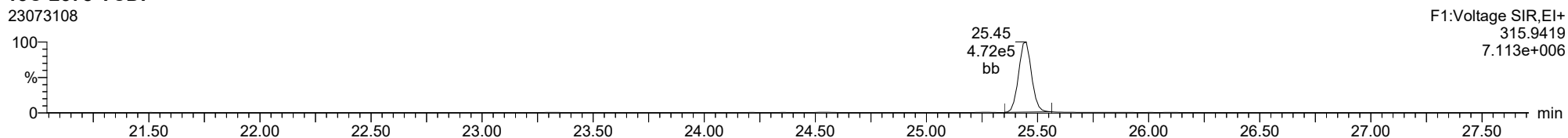
2378-TCDF

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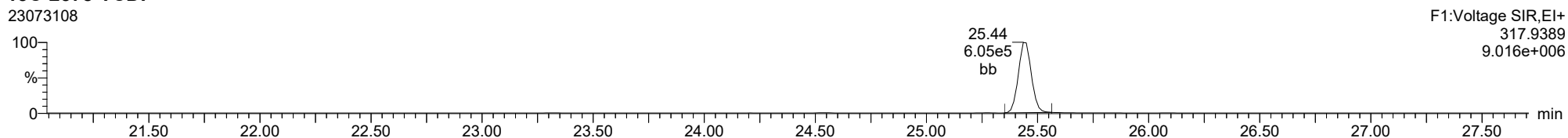
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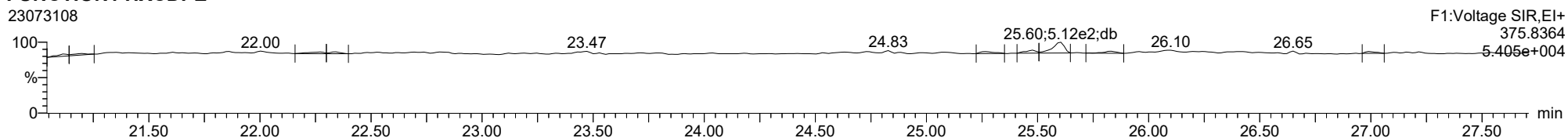
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FUNCTION1 HXCDPE

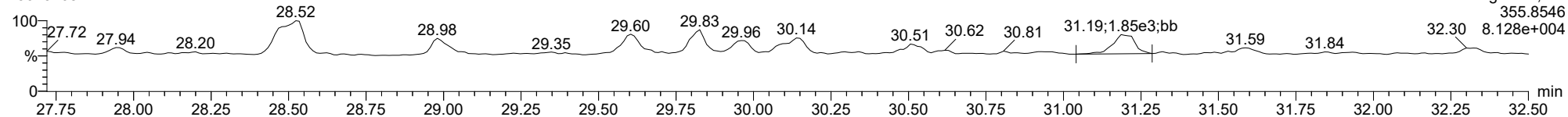
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

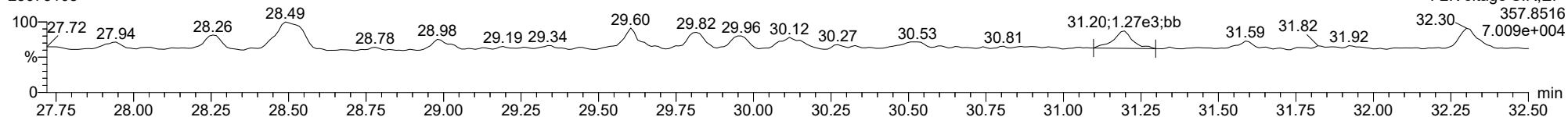
12378-PeCDD

23073108



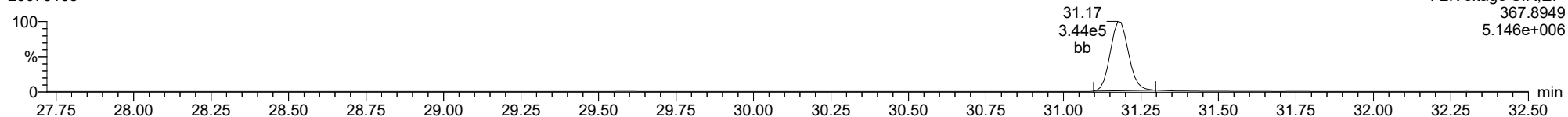
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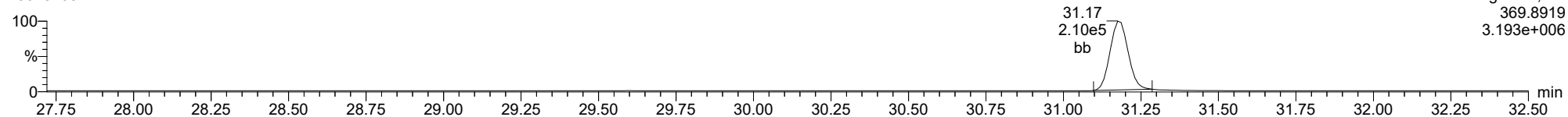
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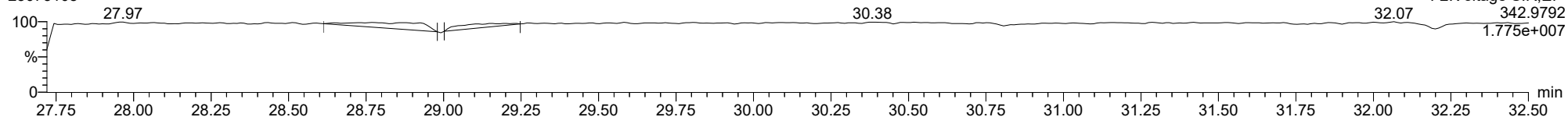
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FUNCTION2 PFK

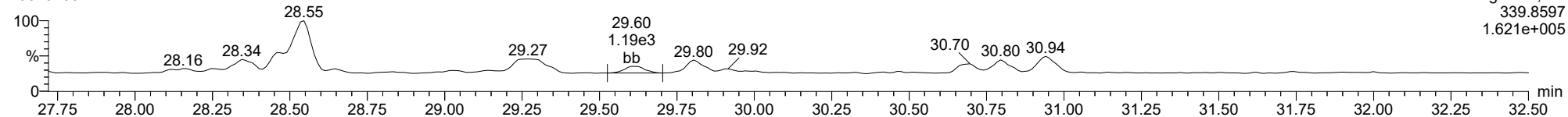
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

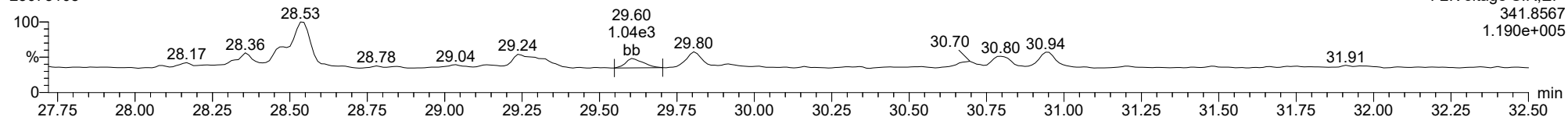
12378-PeCDF

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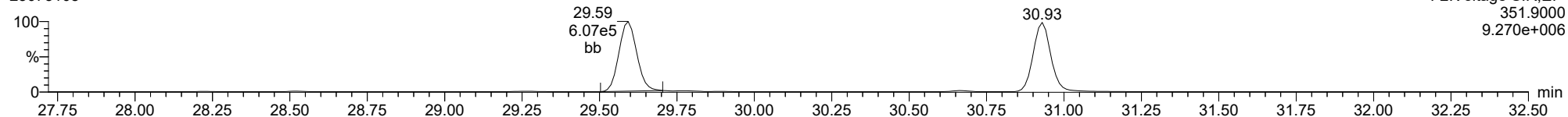
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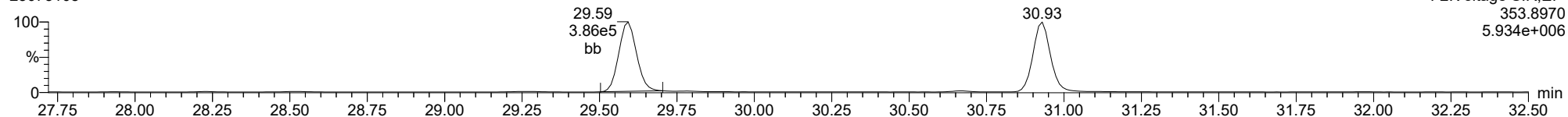
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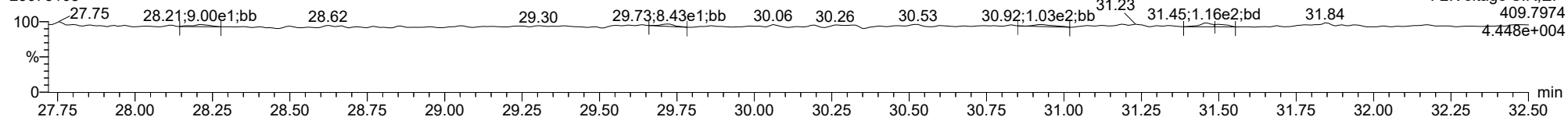
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FUNCTION2 HPCDPE

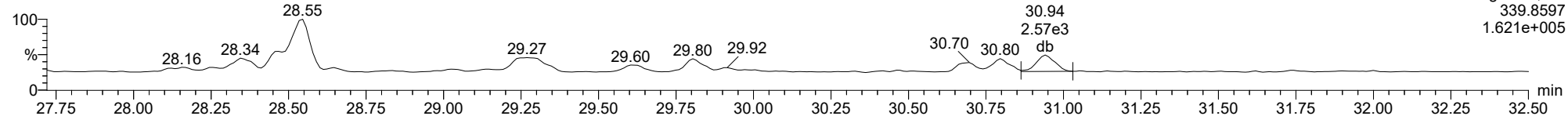
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

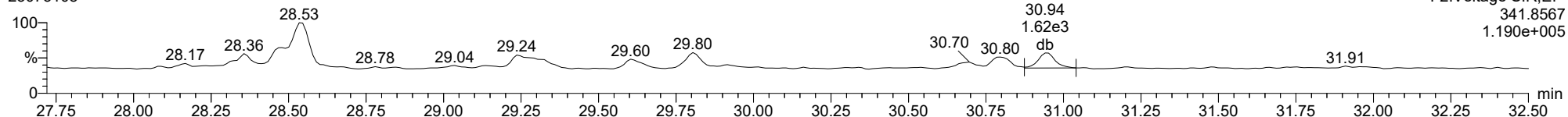
23478-PeCDF

23073108



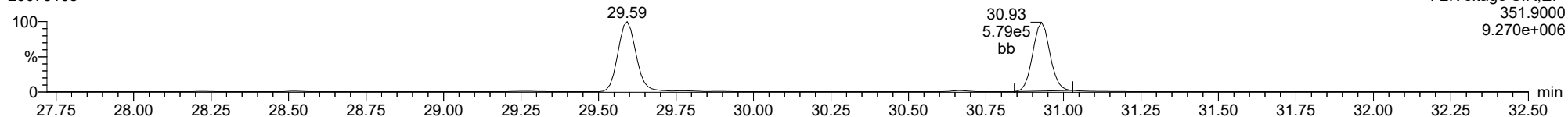
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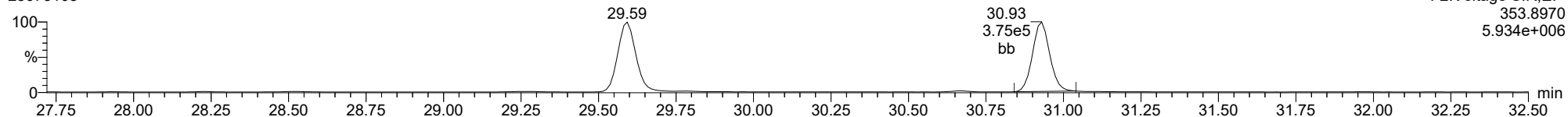
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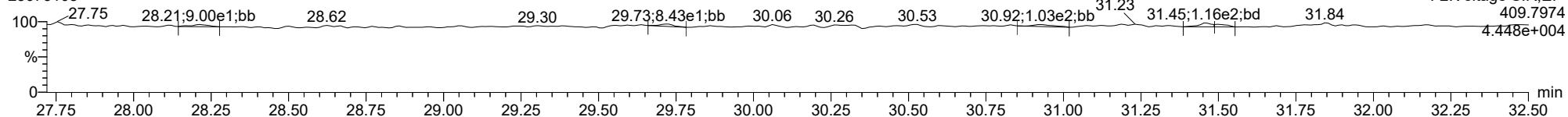
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FUNCTION2 HPCDPE

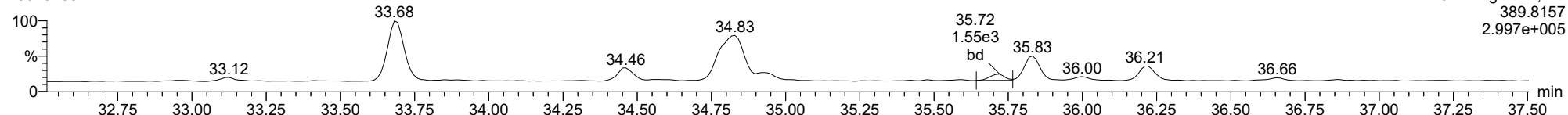
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

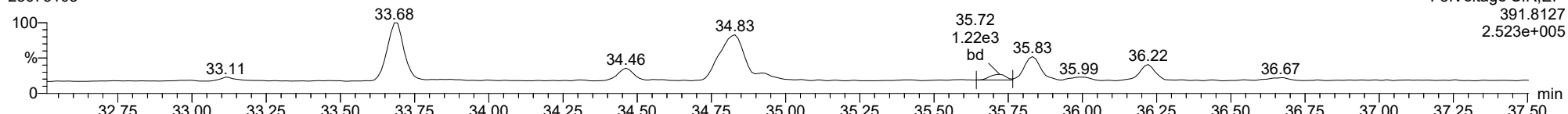
123478-HxCDD

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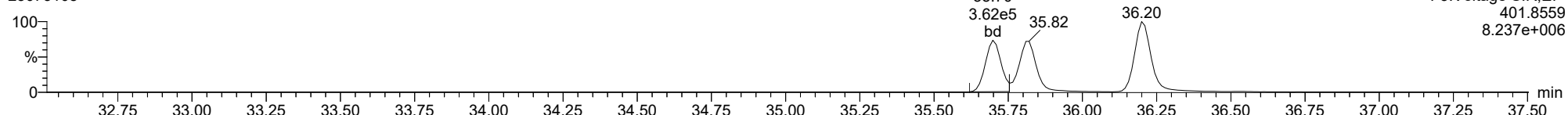
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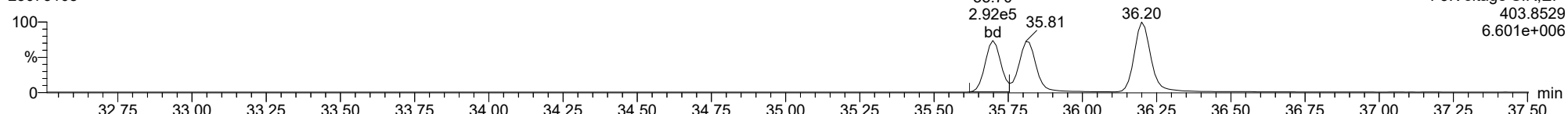
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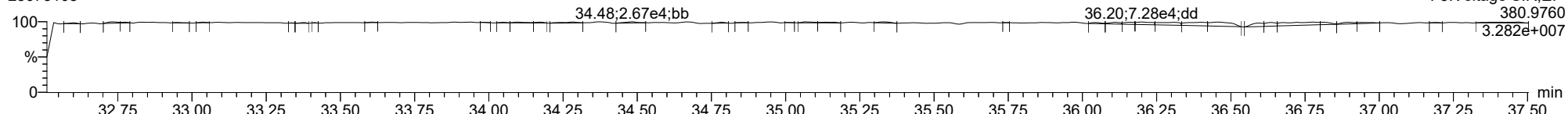
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FUNCTION3 PFK

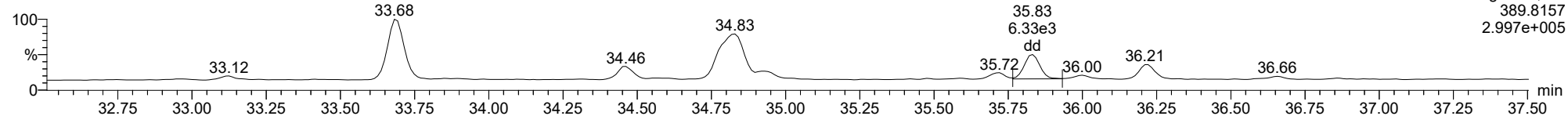
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

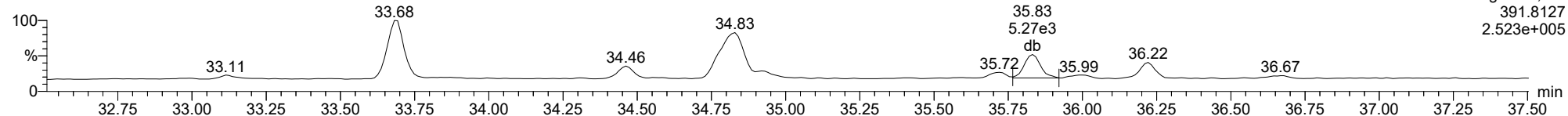
123678-HxCDD

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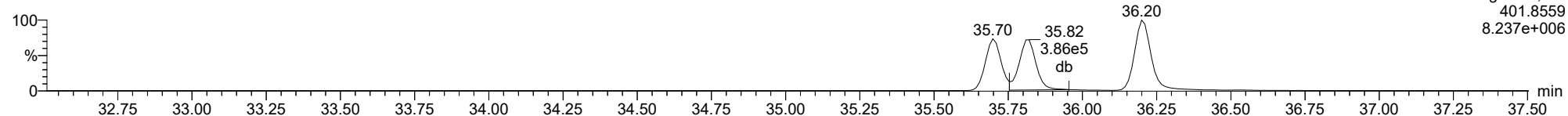
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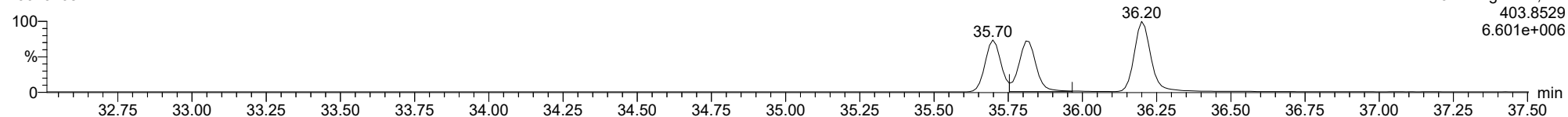
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13C-123678-HxCDD

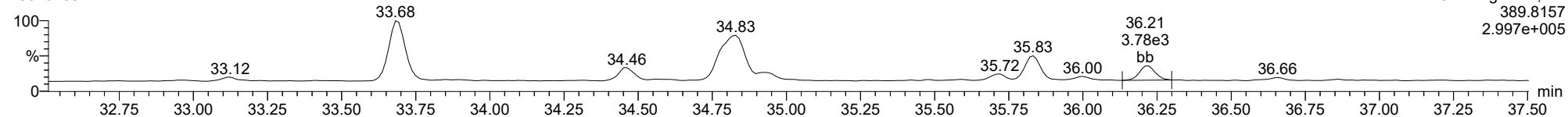
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

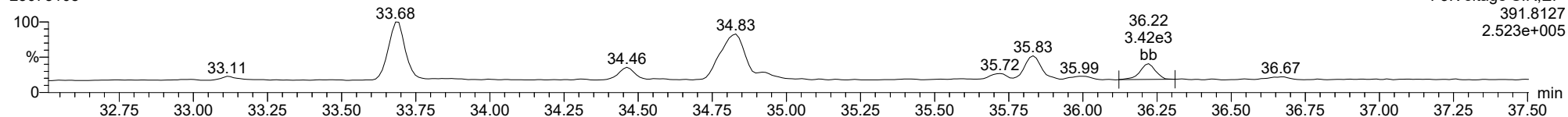
123789-HxCDD

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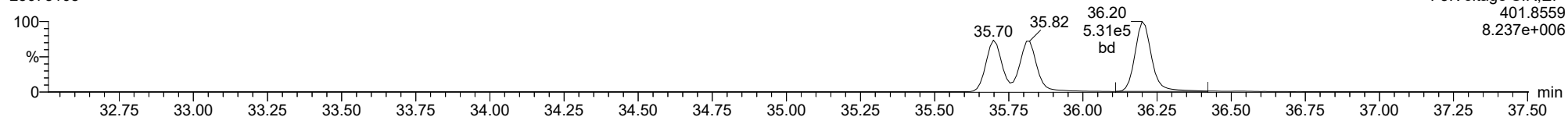
123789-HxCDD

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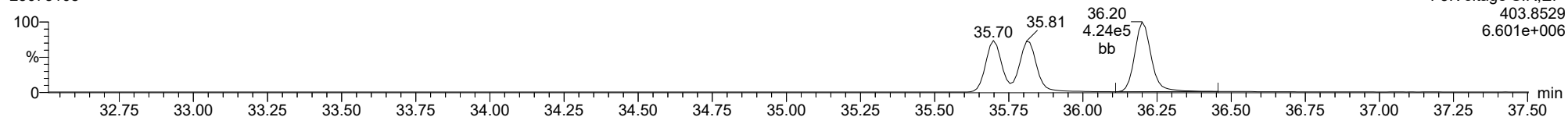
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13C-123789-HxCDD

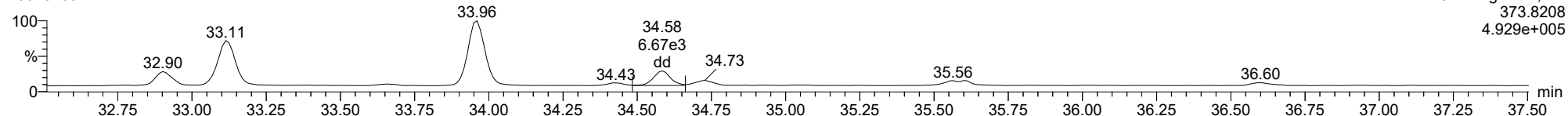
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

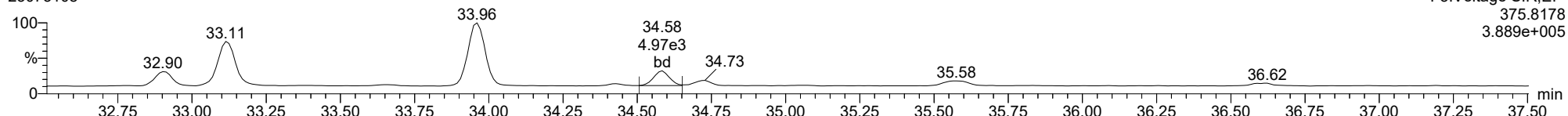
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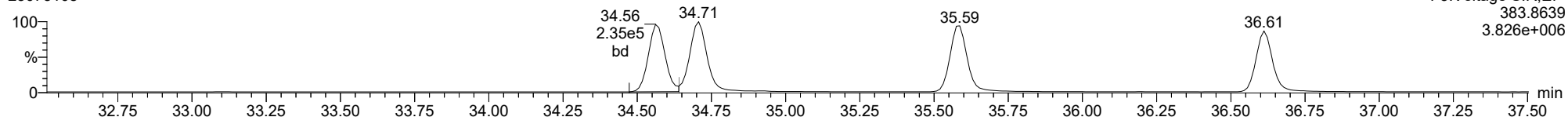
123478-HxCDF

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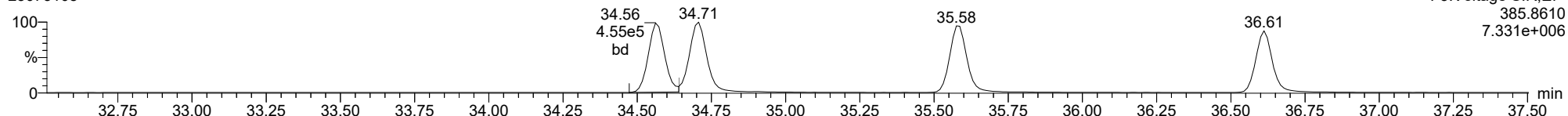
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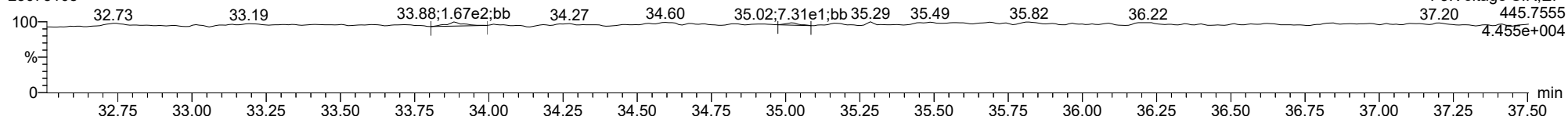
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FUNCTION3 OCDPE

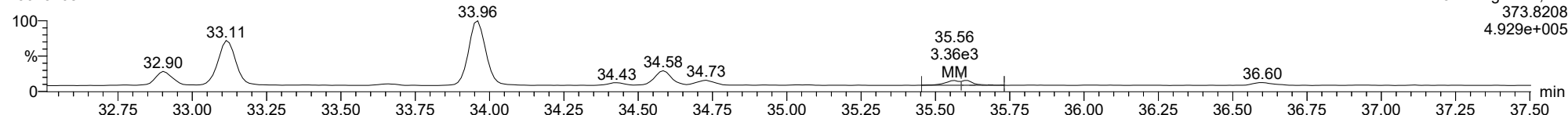
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

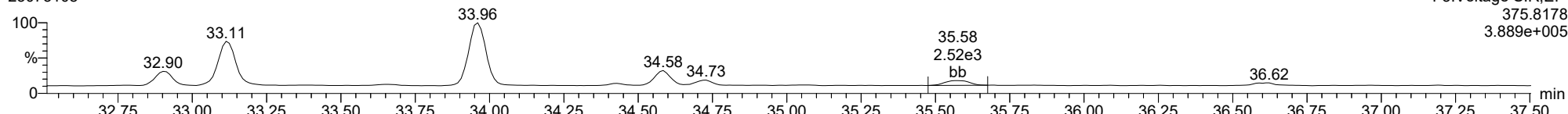
234678-HxCDF

23073108



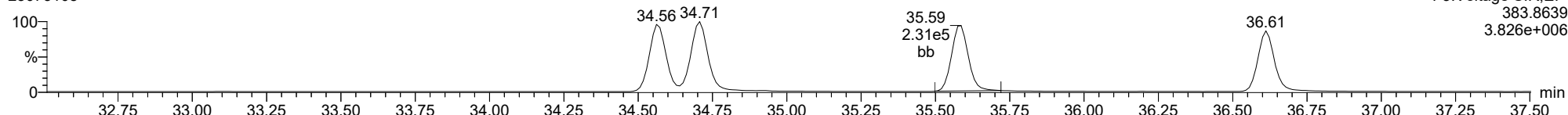
234678-HxCDF

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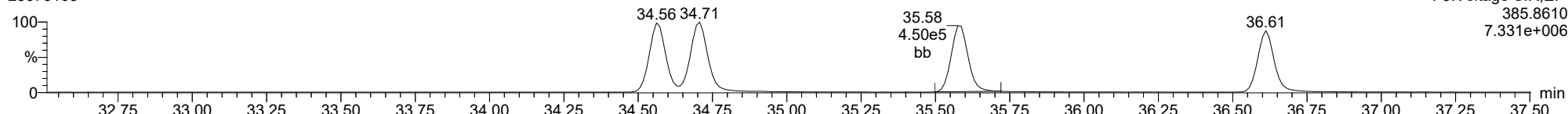
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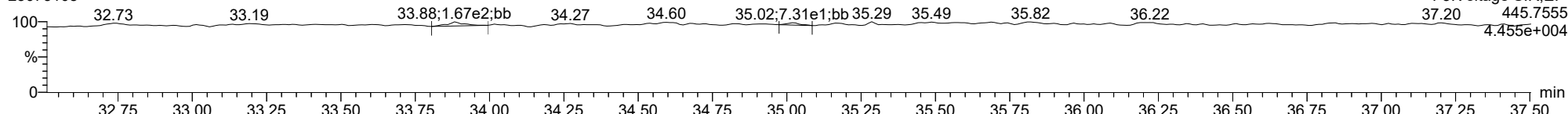
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FUNCTION3 OCDPE

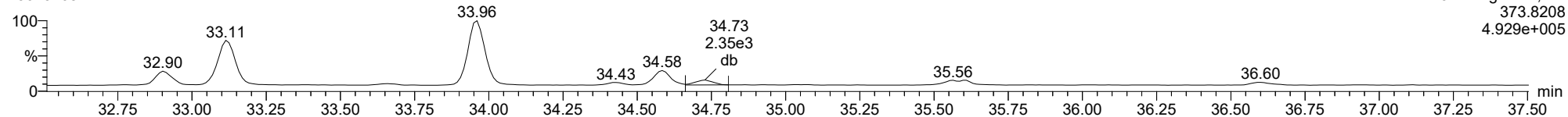
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

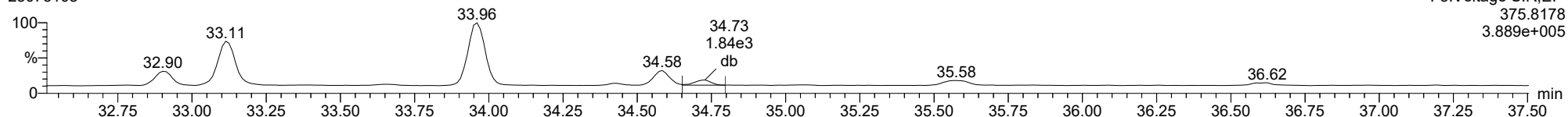
123678-HxCDF

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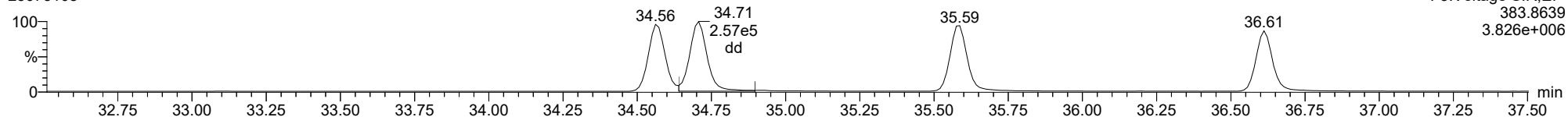
123678-HxCDF

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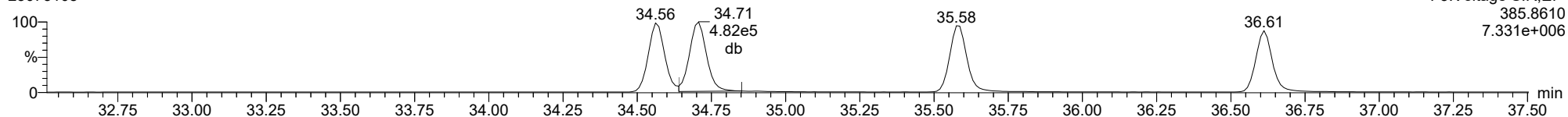
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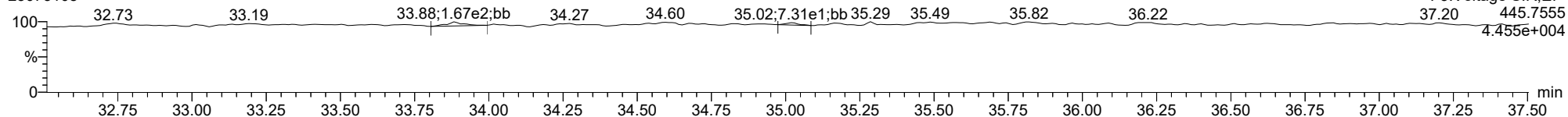
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FUNCTION3 OCDPE

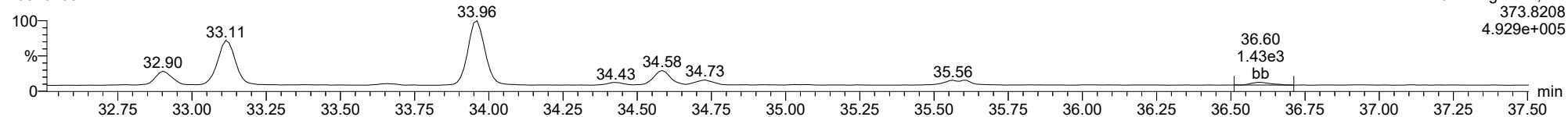
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

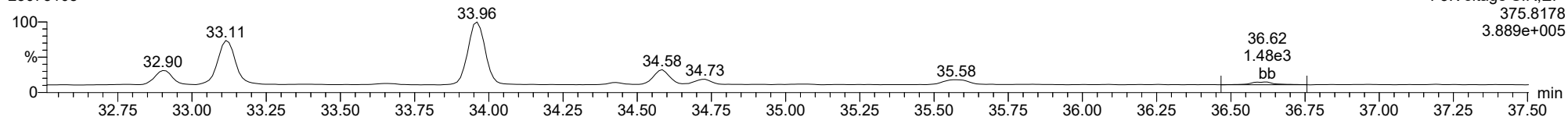
123789-HxCDF

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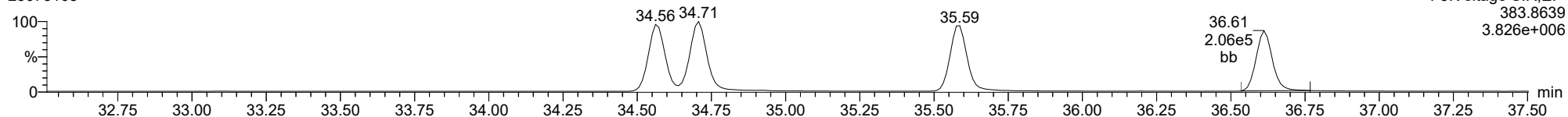
123789-HxCDF

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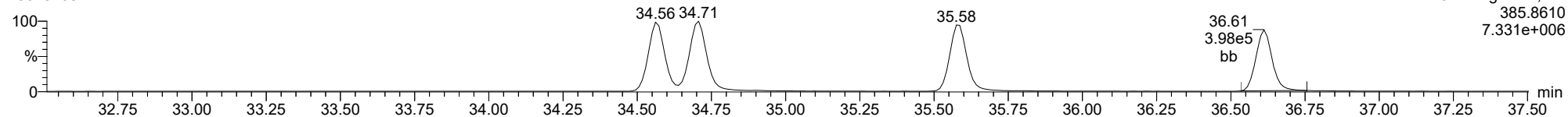
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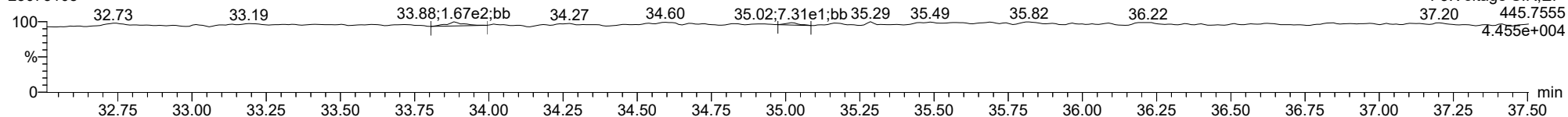
13C-123789-HxCDF

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FUNCTION3 OCDPE

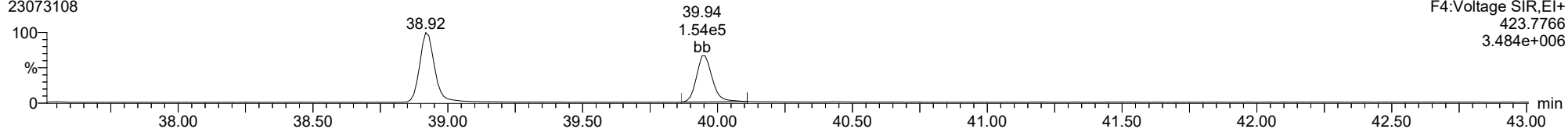
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

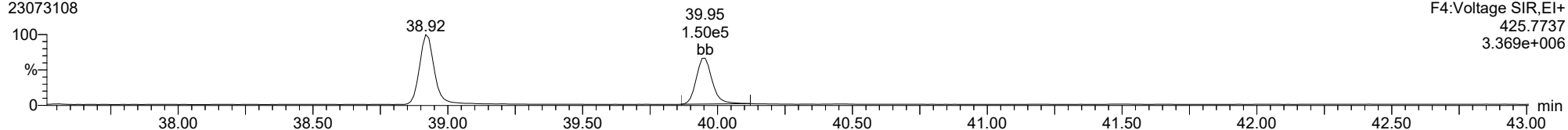
1234678-HpCDD

23073108



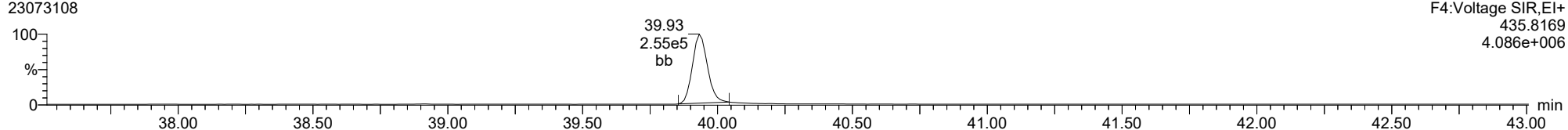
1234678-HpCDD

23073108



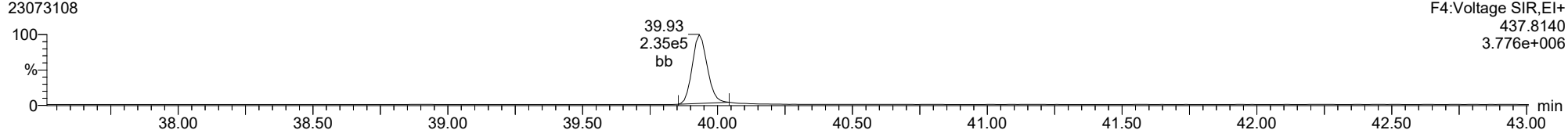
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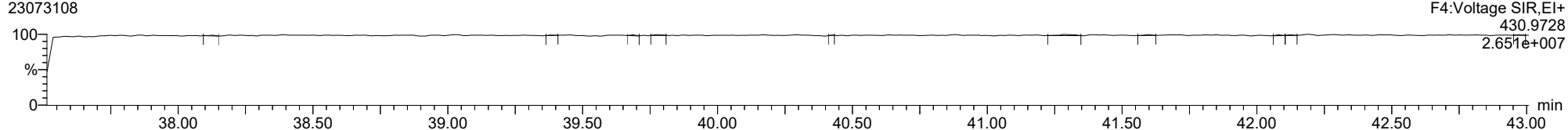
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FUNCTION4 PFK

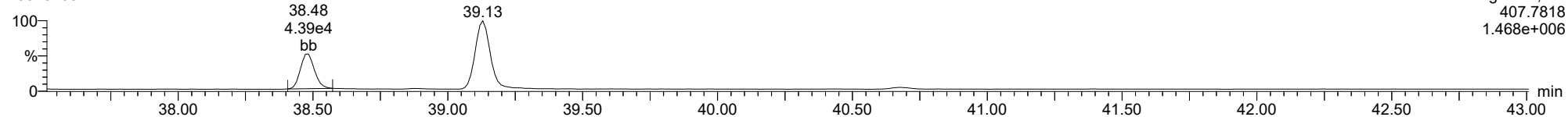
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

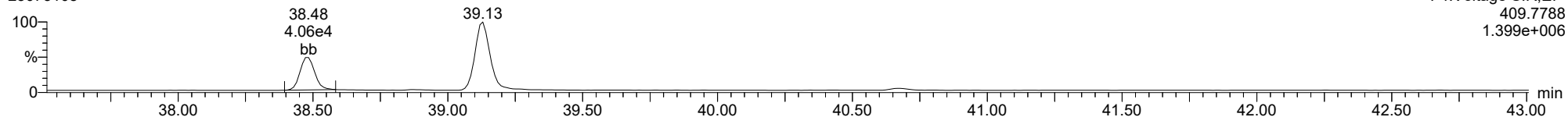
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F4:Voltage SIR,El+
407.7818
1.468e+006

1234678-HpCDF

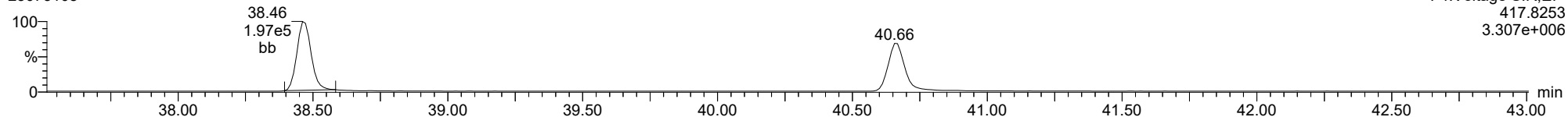
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F4:Voltage SIR,El+
409.7788
1.399e+006

13C-1234678-HpCDF

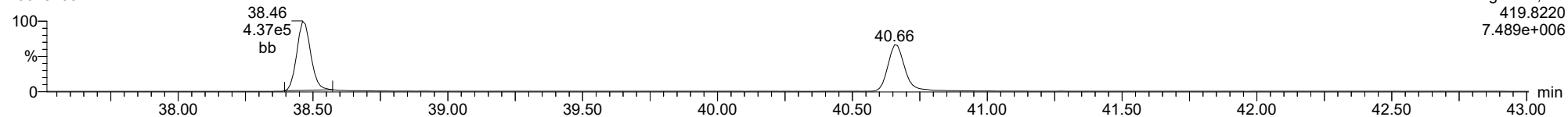
23073108



F4:Voltage SIR,El+
417.8253
3.307e+006

13C-1234678-HpCDF

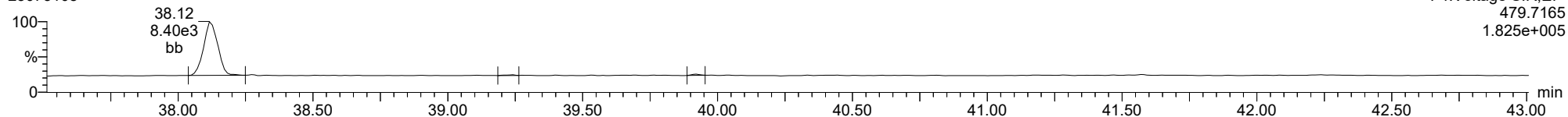
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F4:Voltage SIR,El+
419.8220
7.489e+006

FUNCTION4 NCDPE

23073108

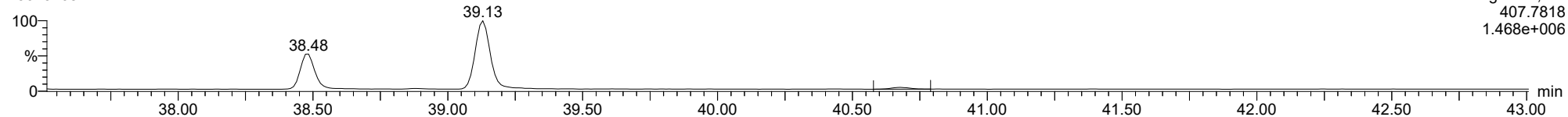


F4:Voltage SIR,El+
479.7165
1.825e+005

ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

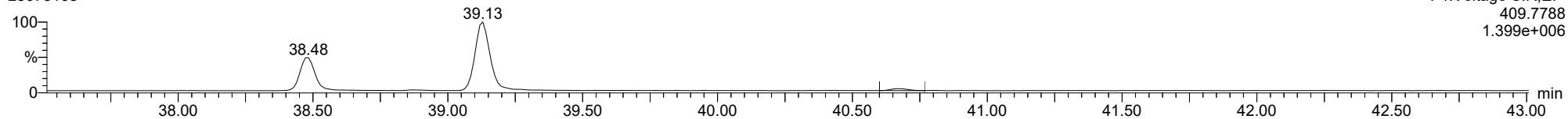
23073108



F4:Voltage SIR,EI+
407.7818
1.468e+006

1234789-HpCDF

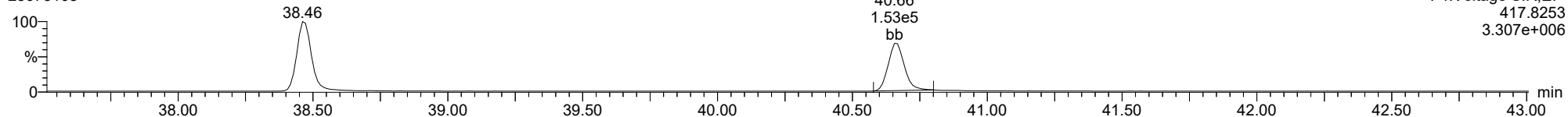
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F4:Voltage SIR,EI+
409.7788
1.399e+006

13C-1234789-HpCDF

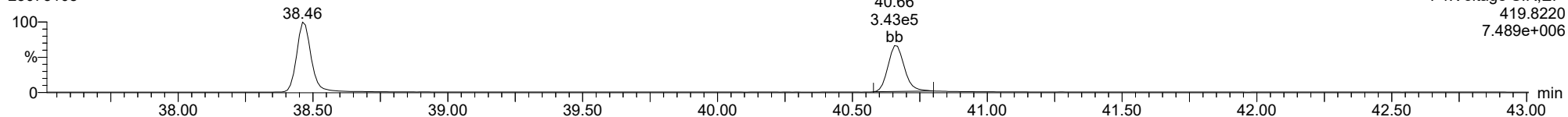
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F4:Voltage SIR,EI+
417.8253
3.307e+006

13C-1234789-HpCDF

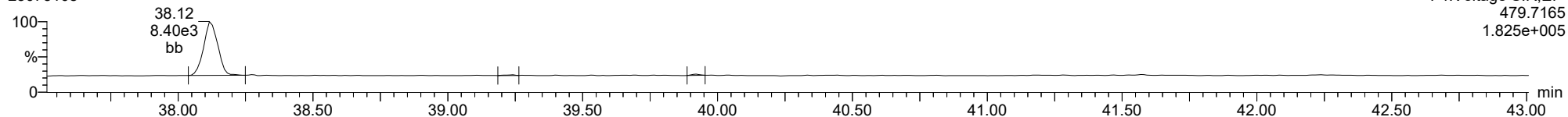
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F4:Voltage SIR,EI+
419.8220
7.489e+006

FUNCTION4 NCDPE

23073108

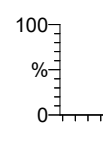


F4:Voltage SIR,EI+
479.7165
1.825e+005

ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

OCDD

23073108

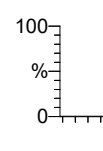


44.59;1.05e6;bb

F5:Voltage SIR,EI+
457.7377
1.282e+007

OCDD

23073108

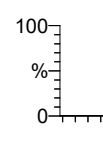


44.58;1.24e6;bd

F5:Voltage SIR,EI+
459.7348
1.431e+007

13C-OCDD

23073108

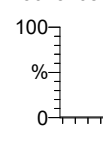


44.57;4.46e5;bb

F5:Voltage SIR,EI+
469.7779
5.878e+006

13C-OCDD

23073108

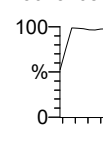


44.57;4.98e5;bb

F5:Voltage SIR,EI+
471.7750
6.481e+006

FUNCTION5 PFK

23073108

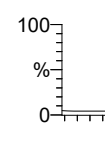


F5:Voltage SIR,EI+
480.9696
1.588e+007

ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

OCDF

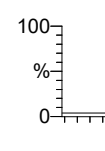
23073108



F5:Voltage SIR,EI+
441.7428
1.012e+006

OCDF

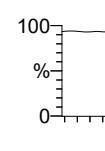
23073108



F5:Voltage SIR,EI+
443.7399
1.098e+006

FUNCTION5 DCDPE

23073108

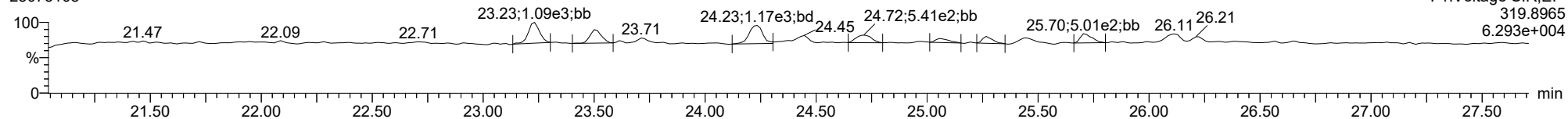


F5:Voltage SIR,EI+
513.6775
4.546e+004

ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

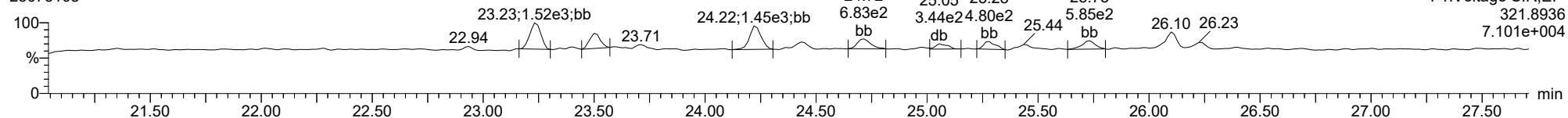
Total-tetradoxins

23073108



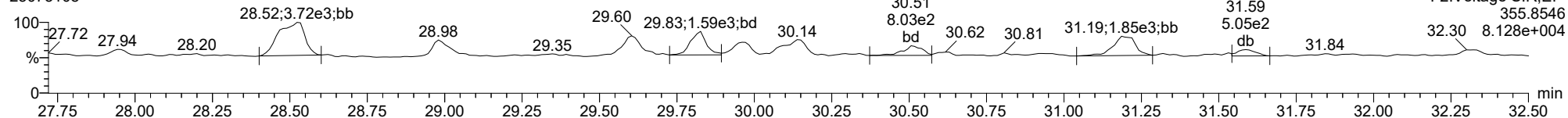
Total-tetradoxins

23073108



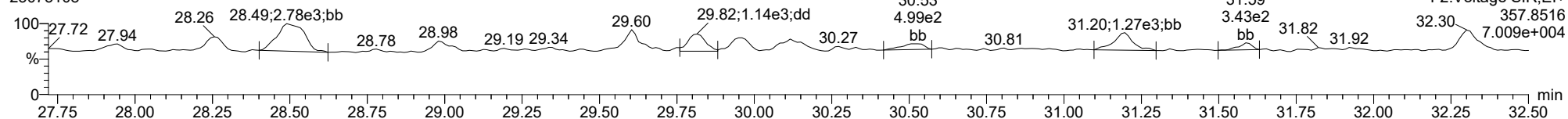
Total-pentadoxins

23073108



Total-pentadoxins

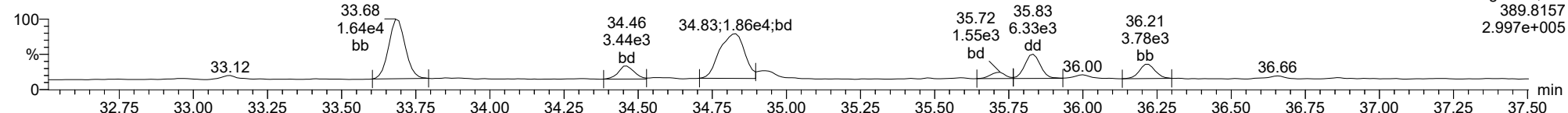
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ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

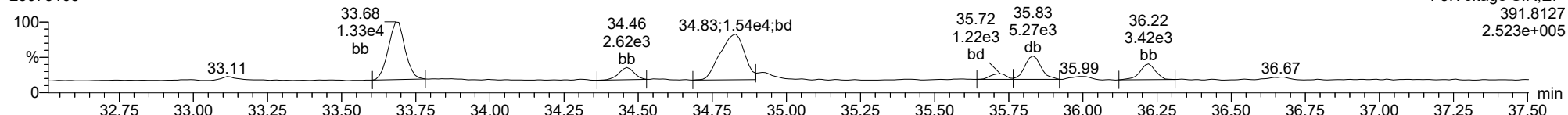
Total-hexadioxins

23073108



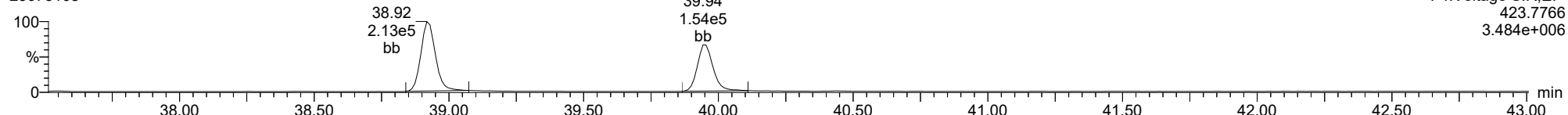
Total-hexadioxins

23073108



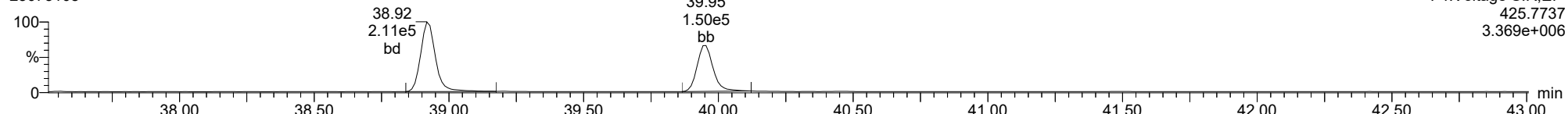
Total-heptadioxins

23073108



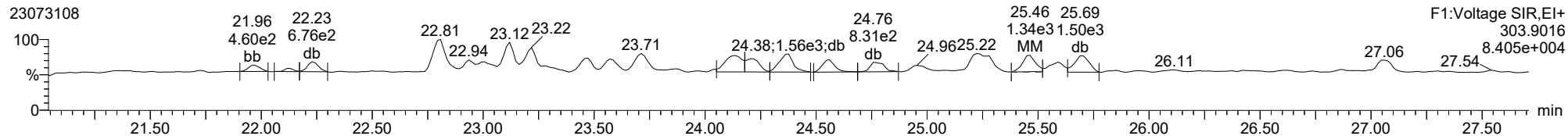
Total-heptadioxins

23073108

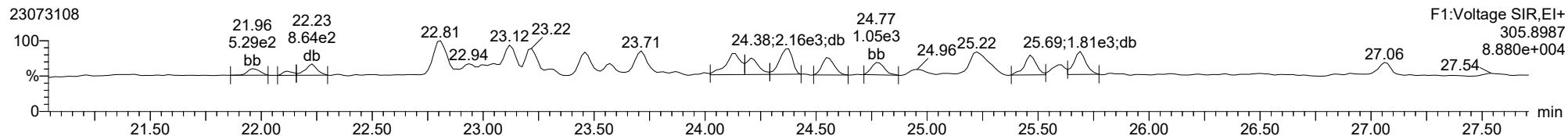


ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

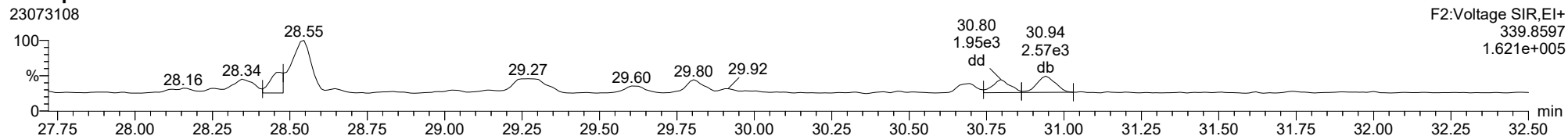
Total-tetrafurans



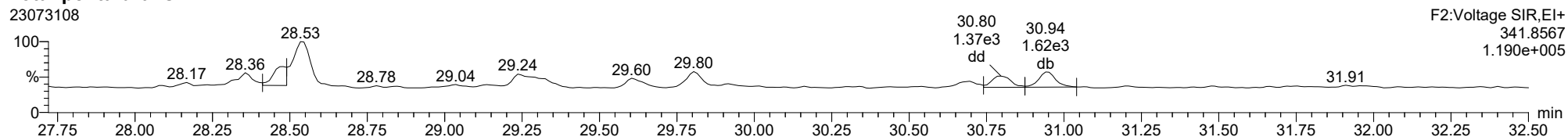
Total-tetrafurans



Total-pentafurans



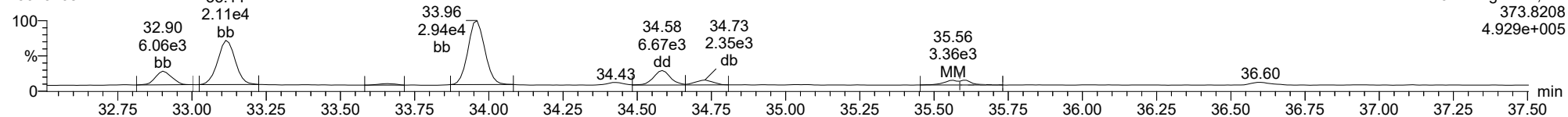
Total-pentafurans



ID: 23F0143-02, Name: 23073108, Date: 31-Jul-2023, Time: 17:52:43, Conditions: AUTOSPEC01, User: pk

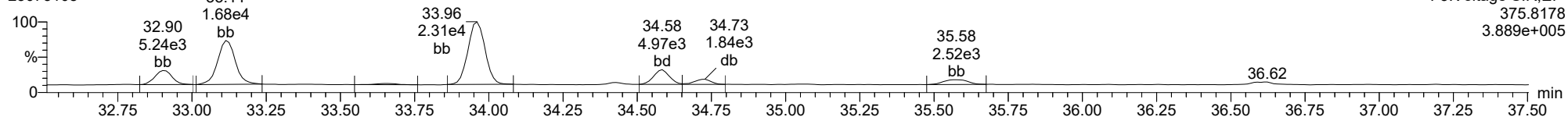
Total-hexafurans

23073108



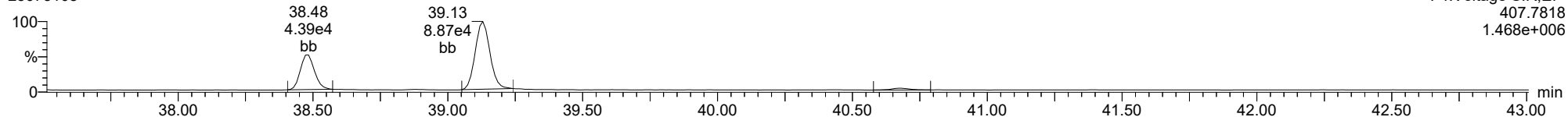
Total-hexafurans

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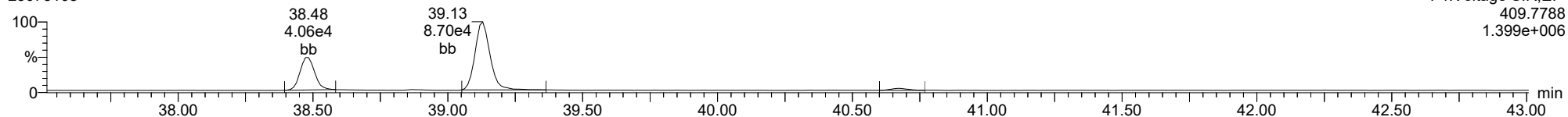
Total-heptafurans

23073108



Total-heptafurans

23073108





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

Laboratory: Analytical Resources, LLC SDG: 23F0143
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23F0143-14 B File ID: 23073109
 Sampled: 01/13/23 10:35 Prepared: 06/14/23 12:00 Analyzed: 07/31/23 18:41
 % Solids: 55.33 Preparation: EPA 1613 Initial/Final: 18.08 g Wet / 20 uL
 Result Basis: Dry Sequence: SLG0303 Calibration: GG00074
 Batch: BLF0318 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	0.703	0.655-0.886	0.092	1.00	0.944	ng/kg	X, J
1746-01-6	2,3,7,8-TCDD	1	0.655	0.655-0.886	0.072	1.00	0.458	ng/kg	J
57117-41-6	1,2,3,7,8-PeCDF	1	1.627	1.318-1.783	0.096	1.00	0.784	ng/kg	J
57117-31-4	2,3,4,7,8-PeCDF	1	1.498	1.318-1.783	0.088	1.00	1.39	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.478	1.318-1.783	0.220	1.00	1.37	ng/kg	
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.260	1.054-1.426	0.099	1.00	5.39	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.265	1.054-1.426	0.101	1.00	1.86	ng/kg	
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.232	1.054-1.426	0.100	1.00	1.42	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.313	1.054-1.426	0.120	1.00	1.13	ng/kg	
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.386	1.054-1.426	0.225	1.00	1.50	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.201	1.054-1.426	0.213	1.00	6.41	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.185	1.054-1.426	0.234	1.00	3.66	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.098	0.893-1.208	0.119	1.00	39.7	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.013	0.893-1.208	0.171	1.00	3.57	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.038	0.893-1.208	0.279	2.50	181	ng/kg	B
39001-02-0	OCDF	1	0.916	0.757-1.024	0.217	2.50	102	ng/kg	B
3268-87-9	OCDD	1	0.889	0.757-1.024	0.481	10.0	1490	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	12.4	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	2.72	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	21.9	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	5.90	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	58.4	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	48.5	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	141	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	390	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 7.22
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 7.22



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

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>23F0143</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>AOC5 MR Phase 1</u>
Matrix: <u>Sediment</u>	Laboratory ID: <u>23F0143-14</u>
Sampled: <u>01/13/23 10:35</u>	File ID: <u>23073109</u>
Solids Wt%: <u>55.33</u>	Prepared: <u>06/14/23 12:00</u>
Result Basis: <u>Dry</u>	Analyzed: <u>07/31/23 18:41</u>
Batch: <u>BLF0318</u>	Preparation: <u>EPA 1613</u>
	Initial/Final: <u>18.08 g / 20 uL</u>
	Sequence: <u>SLG0303</u>
	Calibration: <u>GG00074</u>
	Instrument: <u>AUTOSPEC01</u>
	Column: <u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.789	0.655-0.886	0.085	76.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.777	0.655-0.886	0.110	92.9	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.554	1.318-1.783	0.112	87.7	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.545	1.318-1.783	0.120	90.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.659	1.318-1.783	0.098	92.7	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.526	0.434-0.587	0.122	73.8	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.529	0.434-0.587	0.101	66.1	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.518	0.434-0.587	0.122	72.6	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.510	0.434-0.587	0.142	73.6	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.247	1.054-1.426	0.092	83.1	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.247	1.054-1.426	0.079	74.6	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.452	0.374-0.506	0.150	70.3	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.447	0.374-0.506	0.196	73.6	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.071	0.893-1.208	0.209	90.5	23 - 140 %	
13C12-OCDD		0.923	0.757-1.024	0.240	98.7	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.054	95.8	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:21:20 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.478	1.001	2.729e3	3.880e3	0.951	0.703	0.770	1725	1614	4.14e4	6.37e4	24.0	39.4	NO	bd	dd	0.472
12378-PeCDF	29.626	1.001	2.994e3	1.841e3	0.963	1.627	1.550	1562	1430	4.80e4	2.79e4	30.7	19.5	NO	bb	bb	0.392
23478-PeCDF	30.962	1.001	5.511e3	3.680e3	1.072	1.498	1.550	1562	1430	8.70e4	5.51e4	55.7	38.5	NO	db	MM	0.697
123478-HxCDF	34.605	1.001	1.525e4	1.210e4	1.142	1.260	1.240	980	1583	2.38e5	1.84e5	242.4	116.0	NO	bd	dd	2.697
234678-HxCDF	35.619	1.000	3.877e3	3.147e3	1.138	1.232	1.240	980	1583	6.79e4	5.56e4	69.3	35.1	NO	db	db	0.710
123678-HxCDF	34.739	1.000	5.468e3	4.323e3	1.100	1.265	1.240	980	1583	8.38e4	6.94e4	85.4	43.8	NO	db	db	0.932
123789-HxCDF	36.611	1.000	2.602e3	1.982e3	1.066	1.313	1.240	980	1583	4.00e4	2.78e4	40.8	17.5	NO	bd	bb	0.566
1234678-HpCDF	38.494	1.000	1.007e5	9.168e4	1.210	1.098	1.050	1813	1373	1.69e6	1.56e6	933.7	1136.9	NO	bb	bb	19.849
1234789-HpCDF	40.688	1.000	6.984e3	6.896e3	1.213	1.013	1.050	1813	1373	1.03e5	1.02e5	56.6	74.1	NO	bb	bb	1.787
OCDF	44.836	1.006	2.004e5	2.188e5	1.391	0.916	0.890	2088	1591	2.28e6	2.51e6	1092.5	1575.3	NO	bd	bb	51.089
2378-TCDD	26.113	1.001	1.117e3	1.706e3	1.197	0.655	0.770	1202	1029	1.61e4	2.74e4	13.4	26.6	NO	bd	bd	0.229
12378-PeCDD	31.219	1.001	3.296e3	2.230e3	1.129	1.478	1.550	2217	2311	4.68e4	2.93e4	21.1	12.7	NO	bb	bb	0.683
123478-HxCDD	35.731	1.000	3.439e3	2.481e3	0.917	1.386	1.240	2258	2375	5.36e4	4.52e4	23.7	19.0	NO	dd	bd	0.752
123678-HxCDD	35.853	1.000	1.485e4	1.236e4	0.944	1.201	1.240	2258	2375	2.22e5	1.97e5	98.3	83.0	NO	dd	dd	3.204
123789-HxCDD	36.243	1.011	7.581e3	6.398e3	0.869	1.185	1.240	2258	2375	1.25e5	1.02e5	55.3	42.8	NO	bb	bb	1.831
1234678-HpCDD	39.964	1.000	3.560e5	3.431e5	1.237	1.038	1.050	2812	2766	5.51e6	5.31e6	1958.8	1919.7	NO	bb	bb	90.641
OCDD	44.607	1.000	2.509e6	2.821e6	1.212	0.889	0.890	2645	4478	3.05e7	3.44e7	11544.9	7676.7	NO	bb	bb	745.252
13C-2378-TCDF	25.463	1.007	6.487e5	8.223e5	1.920	0.789	0.770	2713	1575	1.01e7	1.27e7	3721.1	8049.9	NO	bb	bb	76.428
13C-12378-PeCDF	29.603	1.171	7.790e5	5.011e5	1.455	1.554	1.550	2603	1679	1.18e7	7.63e6	4521.2	4543.4	NO	bb	bb	87.726
13C-23478-PeCDF	30.940	1.224	7.468e5	4.833e5	1.363	1.545	1.550	2603	1679	1.15e7	7.44e6	4433.1	4432.8	NO	bb	bb	90.022
13C-123478-HxCDF	34.583	0.954	3.064e5	5.821e5	1.119	0.526	0.510	2123	1564	4.67e6	8.99e6	2200.3	5745.5	NO	bd	bd	73.785
13C-123678-HxCDF	34.728	0.958	3.303e5	6.248e5	1.343	0.529	0.510	2123	1564	4.78e6	9.27e6	2249.7	5924.6	NO	dd	db	66.081
13C-234678-HxCDF	35.608	0.983	2.966e5	5.730e5	1.113	0.518	0.510	2123	1564	4.62e6	8.91e6	2174.8	5693.3	NO	bb	bb	72.615
13C-123789-HxCDF	36.622	1.011	2.562e5	5.027e5	0.959	0.510	0.510	2123	1564	4.05e6	8.12e6	1906.0	5188.5	NO	bb	bb	73.552
13C-1234678-HpCDF	38.482	1.062	2.492e5	5.519e5	1.058	0.452	0.440	1756	2551	4.14e6	9.24e6	2354.8	3621.5	NO	bb	bb	70.323
13C-1234789-HpCDF	40.677	1.123	1.980e5	4.426e5	0.809	0.447	0.440	1756	2551	2.85e6	6.33e6	1623.1	2481.4	NO	bb	bb	73.611
13C-1234-TCDD	25.280	0.000	4.454e5	5.573e5	1.000	0.799	0.770	2033	1138	6.98e6	8.72e6	3432.3	7660.5	NO	bb	bb	100.000
13C-2378-TCDD	26.099	1.032	4.499e5	5.792e5	1.104	0.777	0.770	2033	1138	6.81e6	8.76e6	3351.3	7696.0	NO	bb	bb	92.944
13C-12378-PeCDD	31.197	1.234	4.469e5	2.694e5	0.770	1.659	1.550	1041	940	6.83e6	4.11e6	6559.3	4366.8	NO	bb	bb	92.745
13C-123478-HxCDD	35.731	0.986	4.761e5	3.819e5	0.959	1.247	1.240	1213	1192	7.48e6	5.99e6	6164.3	5026.8	NO	bd	bd	83.103
13C-123678-HxCDD	35.842	0.989	4.992e5	4.002e5	1.120	1.247	1.240	1213	1192	7.67e6	6.24e6	6327.6	5234.4	NO	db	db	74.602
13C-1234678-HpCDD	39.953	1.103	3.225e5	3.011e5	0.640	1.071	1.050	1848	1778	5.02e6	4.65e6	2717.8	2613.9	NO	bb	bb	90.478
13C-OCDD	44.589	1.231	5.662e5	6.137e5	0.555	0.923	0.890	2166	1444	7.02e6	7.68e6	3243.0	5320.9	NO	bb	bb	197.401
13C-123789-HxCDD	36.232	0.000	5.928e5	4.836e5	1.000	1.226	1.240	1213	1192	8.96e6	7.26e6	7387.1	6095.6	NO	bb	bd	100.000
37CL-2378-TCDD	26.113	1.033	4.338e5		1.129			1608		6.69e6		4162.2			bb		38.307

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.989	0.864	1.110e3	1.243e3	1.201	0.893	0.770	1725	1614	1.64e4	1.80e4	9.5	11.2	YES	bd	bd	0.133
1289-TCDF					0.950		0.770	1725	1614								
13468-PECDF					1.142		1.550	854	822								
12389-PECDF					0.917		1.550	1562	1430								
123468-HXCDF	32.923	0.952	1.436e4	1.114e4	1.332	1.289	1.240	980	1583	2.21e5	1.70e5	225.0	107.1	NO	bb	bb	2.154
1368-TCDD	23.246	0.891	2.446e3	2.739e3	1.148	0.893	0.770	1202	1029	4.18e4	4.33e4	34.8	42.1	YES	bb	bb	0.439
1289-TCDD	26.636	1.021	4.343e2	4.216e2	0.955	1.030	0.770	1202	1029	4.80e3	5.98e3	4.0	5.8	YES	bb	bd	0.087
12479-PECDD	28.545	0.915	7.354e3	4.766e3	2.043	1.543	1.550	2217	2311	7.31e4	5.46e4	33.0	23.6	NO	bb	bb	0.828
12389-PECDD					1.326		1.550	2217	2311								
124679-HXCDD	33.703	0.943	3.724e4	3.061e4	1.104	1.217	1.240	2258	2375	5.73e5	4.65e5	253.6	195.7	NO	bb	bb	7.166
1234679-HPCDD	38.939	0.975	5.165e5	4.954e5	1.554	1.043	1.050	2812	2766	8.21e6	7.90e6	2919.9	2855.2	NO	bb	bb	104.392
Total-tetrafurans			4.033e4		1.034			1725		5.92e5							6.202
Total-penta1			3.252e4					854		4.68e5							4.471
Total-pentafurans			4.859e4		0.984			1562		5.72e5							6.471
Total-hexafurans			1.652e5		1.155			980		2.51e6							29.229
Total-heptafurans			3.291e5		1.211			1813		5.38e6							70.670
Total-Furans			8.161e5		1.119			1725		1.18e7							168.133
Total-tetradoxins			6.707e3		1.100			1202		1.09e5							1.359
Total-pentadoxins			1.986e4		1.499			2217		2.59e5							2.952
Total-hexadoxins			1.159e5		0.958			2258		1.57e6							24.284
Total-heptadoxins			8.725e5		1.396			2812		1.37e7							195.033
Total-Dioxins			3.524e6		1.203			1202		4.62e7							968.879
Total-TEQ			4.340e6					1202		5.80e7							1137.012
FUNCTION1 PFK			2.591e7					322307		9.32e7							
FUNCTION2 PFK			7.369e5					243374		4.80e6							0.000
FUNCTION3 PFK			2.811e6					262968		6.71e6							0.000
FUNCTION4 PFK			3.297e5					241657		9.64e6							
FUNCTION5 PFK			4.839e6					159338		3.73e7							
FUNCTION1 HXCD...			3.082e3					583		3.90e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			5.253e2					790		1.15e4							0.000
FUNCTION3 OCDPE			4.852e2					582		9.77e3							0.000
FUNCTION4 NCDPE			1.489e4					633		2.48e5							0.000
FUNCTION5 DCDPE			2.161e2					613		2.98e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.58	2.232e3	2.875e3	1.034	0.78	0.77	20.3	YES	NO	db	dd	0.336
2	Total-tetrafurans	23.47	2.813e3	4.139e3	1.034	0.68	0.77	26.7	YES	NO	bd	dd	0.457
3	Total-tetrafurans	23.32	9.357e2	1.310e3	1.034	0.71	0.77	11.2	YES	NO	db	dd	0.148
4	Total-tetrafurans	22.82	5.192e3	6.013e3	1.034	0.86	0.77	45.1	YES	NO	bd	bd	0.736
5	Total-tetrafurans	22.24	1.632e3	2.128e3	1.034	0.77	0.77	14.5	YES	NO	db	db	0.247
6	Total-tetrafurans	27.07	1.339e3	1.686e3	1.034	0.79	0.77	12.7	YES	NO	bb	bb	0.199
7	Total-tetrafurans	25.70	2.791e3	3.250e3	1.034	0.86	0.77	23.6	YES	NO	db	db	0.397
8	Total-tetrafurans	25.62	1.374e3	1.826e3	1.034	0.75	0.77	13.2	YES	NO	dd	dd	0.210
9	2378-TCDF	25.48	2.729e3	3.880e3	0.951	0.70	0.77	24.0	YES	NO	bd	dd	0.472
10	Total-tetrafurans	25.25	6.803e3	9.554e3	1.034	0.71	0.77	47.8	YES	NO	bb	dd	1.075
11	Total-tetrafurans	24.57	2.391e3	3.147e3	1.034	0.76	0.77	22.5	YES	NO	bb	bb	0.364
12	Total-tetrafurans	24.38	3.951e3	5.238e3	1.034	0.75	0.77	35.8	YES	NO	db	db	0.604
13	Total-tetrafurans	24.23	1.988e3	2.707e3	1.034	0.73	0.77	16.1	YES	NO	dd	dd	0.309
14	Total-tetrafurans	24.15	4.160e3	5.713e3	1.034	0.73	0.77	30.0	YES	NO	dd	dd	0.649

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	26.90	3.252e4	1.996e4		1.63	1.55	547.8	YES	NO	bb	bb	4.471

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	30.96	5.511e3	3.680e3	1.072	1.50	1.55	55.7	YES	NO	db	MM	0.697
2	12378-PeCDF	29.63	2.994e3	1.841e3	0.963	1.63	1.55	30.7	YES	NO	bb	bb	0.392
3	Total-pentafurans	29.29	9.191e3	6.442e3	0.984	1.43	1.55	54.5	YES	NO	db	db	1.266
4	Total-pentafurans	28.57	2.480e4	1.626e4	0.984	1.53	1.55	172.4	YES	NO	dd	MM	3.325
5	Total-pentafurans	28.38	6.099e3	3.679e3	0.984	1.66	1.55	53.0	YES	NO	dd	dd	0.792

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	234678-HxCDF	35.62	3.877e3	3.147e3	1.138	1.23	1.24	69.3	YES	NO	db	db	0.710
2	Total-hexafurans	35.59	3.376e3	2.653e3	1.155	1.27	1.24	69.1	YES	NO	bd	bd	0.601
3	Total-hexafurans	35.08	6.571e2	6.224e2	1.155	1.06	1.24	9.3	YES	NO	db	bb	0.128
4	123678-HxCDF	34.74	5.468e3	4.323e3	1.100	1.26	1.24	85.4	YES	NO	db	db	0.932
5	123478-HxCDF	34.61	1.525e4	1.210e4	1.142	1.26	1.24	242.4	YES	NO	bd	dd	2.697
6	Total-hexafurans	34.45	2.469e3	2.032e3	1.155	1.21	1.24	38.8	YES	NO	bb	bd	0.449
7	Total-hexafurans	33.97	6.941e4	5.526e4	1.155	1.26	1.24	1071.6	YES	NO	bb	bb	12.430
8	Total-hexafurans	33.67	1.482e3	1.260e3	1.155	1.18	1.24	22.5	YES	NO	bb	bb	0.273
9	Total-hexafurans	33.13	4.624e4	3.688e4	1.155	1.25	1.24	683.1	YES	NO	bb	bb	8.288
10	123468-HxCDF	32.92	1.436e4	1.114e4	1.332	1.29	1.24	225.0	YES	NO	bb	bb	2.154
11	123789-HxCDF	36.61	2.602e3	1.982e3	1.066	1.31	1.24	40.8	YES	NO	bd	bb	0.566

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.14	2.196e5	2.047e5	1.211	1.07	1.05	1962.9	YES	NO	bb	bb	48.598
2	Total-heptafurans	38.89	1.840e3	1.977e3	1.211	0.93	1.05	16.9	YES	NO	bb	bb	0.437
3	1234678-HpCDF	38.49	1.007e5	9.168e4	1.210	1.10	1.05	933.7	YES	NO	bb	bb	19.849
4	1234789-HpCDF	40.69	6.984e3	6.896e3	1.213	1.01	1.05	56.6	YES	NO	bb	bb	1.787

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	23.58	2.232e3	2.875e3	1.034	0.78	0.77	20.3	YES	NO	db	dd	0.336
2	Total-tetrafurans	23.47	2.813e3	4.139e3	1.034	0.68	0.77	26.7	YES	NO	bd	dd	0.457
3	Total-tetrafurans	23.32	9.357e2	1.310e3	1.034	0.71	0.77	11.2	YES	NO	db	dd	0.148
4	Total-tetrafurans	22.82	5.192e3	6.013e3	1.034	0.86	0.77	45.1	YES	NO	bd	bd	0.736
5	Total-tetrafurans	22.24	1.632e3	2.128e3	1.034	0.77	0.77	14.5	YES	NO	db	db	0.247
6	Total-tetrafurans	27.07	1.339e3	1.686e3	1.034	0.79	0.77	12.7	YES	NO	bb	bb	0.199
7	Total-tetrafurans	25.70	2.791e3	3.250e3	1.034	0.86	0.77	23.6	YES	NO	db	db	0.397
8	Total-tetrafurans	25.62	1.374e3	1.826e3	1.034	0.75	0.77	13.2	YES	NO	dd	dd	0.210
9	2378-TCDF	25.48	2.729e3	3.880e3	0.951	0.70	0.77	24.0	YES	NO	bd	dd	0.472
10	Total-tetrafurans	25.25	6.803e3	9.554e3	1.034	0.71	0.77	47.8	YES	NO	bb	dd	1.075
11	Total-tetrafurans	24.57	2.391e3	3.147e3	1.034	0.76	0.77	22.5	YES	NO	bb	bb	0.364
12	Total-tetrafurans	24.38	3.951e3	5.238e3	1.034	0.75	0.77	35.8	YES	NO	db	db	0.604
13	Total-tetrafurans	24.23	1.988e3	2.707e3	1.034	0.73	0.77	16.1	YES	NO	dd	dd	0.309
14	Total-tetrafurans	24.15	4.160e3	5.713e3	1.034	0.73	0.77	30.0	YES	NO	dd	dd	0.649
15	23478-PeCDF	30.96	5.511e3	3.680e3	1.072	1.50	1.55	55.7	YES	NO	db	MM	0.697
16	12378-PeCDF	29.63	2.994e3	1.841e3	0.963	1.63	1.55	30.7	YES	NO	bb	bb	0.392
17	Total-pentafurans	29.29	9.191e3	6.442e3	0.984	1.43	1.55	54.5	YES	NO	db	db	1.266
18	Total-pentafurans	28.57	2.480e4	1.626e4	0.984	1.53	1.55	172.4	YES	NO	dd	MM	3.325
19	Total-pentafurans	28.38	6.099e3	3.679e3	0.984	1.66	1.55	53.0	YES	NO	dd	dd	0.792
20	234678-HxCDF	35.62	3.877e3	3.147e3	1.138	1.23	1.24	69.3	YES	NO	db	db	0.710
21	Total-hexafurans	35.59	3.376e3	2.653e3	1.155	1.27	1.24	69.1	YES	NO	bd	bd	0.601
22	Total-hexafurans	35.08	6.571e2	6.224e2	1.155	1.06	1.24	9.3	YES	NO	db	bb	0.128
23	123678-HxCDF	34.74	5.468e3	4.323e3	1.100	1.26	1.24	85.4	YES	NO	db	db	0.932
24	123478-HxCDF	34.61	1.525e4	1.210e4	1.142	1.26	1.24	242.4	YES	NO	bd	dd	2.697
25	Total-hexafurans	34.45	2.469e3	2.032e3	1.155	1.21	1.24	38.8	YES	NO	bb	bd	0.449
26	Total-hexafurans	33.97	6.941e4	5.526e4	1.155	1.26	1.24	1071.6	YES	NO	bb	bb	12.430
27	Total-hexafurans	33.67	1.482e3	1.260e3	1.155	1.18	1.24	22.5	YES	NO	bb	bb	0.273
28	Total-hexafurans	33.13	4.624e4	3.688e4	1.155	1.25	1.24	683.1	YES	NO	bb	bb	8.288
29	123468-HXCDF	32.92	1.436e4	1.114e4	1.332	1.29	1.24	225.0	YES	NO	bb	bb	2.154
30	123789-HxCDF	36.61	2.602e3	1.982e3	1.066	1.31	1.24	40.8	YES	NO	bd	bb	0.566
31	Total-heptafurans	39.14	2.196e5	2.047e5	1.211	1.07	1.05	1962.9	YES	NO	bb	bb	48.598
32	Total-heptafurans	38.89	1.840e3	1.977e3	1.211	0.93	1.05	16.9	YES	NO	bb	bb	0.437
33	1234678-HpCDF	38.49	1.007e5	9.168e4	1.210	1.10	1.05	933.7	YES	NO	bb	bb	19.849
34	1234789-HpCDF	40.69	6.984e3	6.896e3	1.213	1.01	1.05	56.6	YES	NO	bb	bb	1.787
35	OCDF	44.84	2.004e5	2.188e5	1.391	0.92	0.89	1092.5	YES	NO	bd	bb	51.089
36	Total-penta1	26.90	3.252e4	1.996e4		1.63	1.55	547.8	YES	NO	bb	bb	4.471

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TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	23.74	4.057e2	4.606e2	1.100	0.88	0.77	5.1	YES	NO	bb	db	0.077
2	Total-tetradoxins	23.53	1.615e3	2.187e3	1.100	0.74	0.77	23.3	YES	NO	bb	bd	0.336
3	Total-tetradoxins	26.24	3.536e2	5.105e2	1.100	0.69	0.77	5.5	YES	NO	db	db	0.076
4	2378-TCDD	26.11	1.117e3	1.706e3	1.197	0.65	0.77	13.4	YES	NO	bd	bd	0.229
5	Total-tetradoxins	24.73	1.059e3	1.294e3	1.100	0.82	0.77	15.5	YES	NO	bb	bb	0.208
6	Total-tetradoxins	24.46	6.975e2	7.910e2	1.100	0.88	0.77	8.0	YES	NO	bb	bb	0.132
7	Total-tetradoxins	24.25	1.460e3	1.959e3	1.100	0.75	0.77	19.9	YES	NO	bb	bb	0.302

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.55	7.354e3	4.766e3	2.043	1.54	1.55	33.0	YES	NO	bb	bb	0.828
2	12378-PeCDD	31.22	3.296e3	2.230e3	1.129	1.48	1.55	21.1	YES	NO	bb	bb	0.683
3	Total-pentadoxins	29.97	2.798e3	1.659e3	1.499	1.69	1.55	20.4	YES	NO	dd	dd	0.415
4	Total-pentadoxins	29.83	3.114e3	2.250e3	1.499	1.38	1.55	20.3	YES	NO	bd	bd	0.500
5	Total-pentadoxins	29.63	3.300e3	2.343e3	1.499	1.41	1.55	22.2	YES	NO	bb	bb	0.526

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDD	35.73	3.439e3	2.481e3	0.917	1.39	1.24	23.7	YES	NO	dd	bd	0.752
2	Total-hexadoxins	34.85	4.233e4	3.505e4	0.958	1.21	1.24	196.1	YES	NO	bd	bd	9.188
3	Total-hexadoxins	34.48	7.860e3	5.755e3	0.958	1.37	1.24	51.4	YES	NO	bb	bb	1.617
4	124679-HxCDD	33.70	3.724e4	3.061e4	1.104	1.22	1.24	253.6	YES	NO	bb	bb	7.166
5	123789-HxCDD	36.24	7.581e3	6.398e3	0.869	1.18	1.24	55.3	YES	NO	bb	bb	1.831
6	Total-hexadoxins	36.02	2.575e3	1.850e3	0.958	1.39	1.24	16.9	YES	NO	db	db	0.525
7	123678-HxCDD	35.85	1.485e4	1.236e4	0.944	1.20	1.24	98.3	YES	NO	dd	dd	3.204

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.96	3.560e5	3.431e5	1.237	1.04	1.05	1958.8	YES	NO	bb	bb	90.641
2	1234679-HPCDD	38.94	5.165e5	4.954e5	1.554	1.04	1.05	2919.9	YES	NO	bb	bb	104.392

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, 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	23.74	4.057e2	4.606e2	1.100	0.88	0.77	5.1	YES	NO	bb	db	0.077
2	Total-tetradoxins	23.53	1.615e3	2.187e3	1.100	0.74	0.77	23.3	YES	NO	bb	bd	0.336
3	Total-tetradoxins	26.24	3.536e2	5.105e2	1.100	0.69	0.77	5.5	YES	NO	db	db	0.076
4	2378-TCDD	26.11	1.117e3	1.706e3	1.197	0.65	0.77	13.4	YES	NO	bd	bd	0.229
5	Total-tetradoxins	24.73	1.059e3	1.294e3	1.100	0.82	0.77	15.5	YES	NO	bb	bb	0.208
6	Total-tetradoxins	24.46	6.975e2	7.910e2	1.100	0.88	0.77	8.0	YES	NO	bb	bb	0.132
7	Total-tetradoxins	24.25	1.460e3	1.959e3	1.100	0.75	0.77	19.9	YES	NO	bb	bb	0.302
8	12479-PECDD	28.55	7.354e3	4.766e3	2.043	1.54	1.55	33.0	YES	NO	bb	bb	0.828
9	12378-PeCDD	31.22	3.296e3	2.230e3	1.129	1.48	1.55	21.1	YES	NO	bb	bb	0.683
10	Total-pentadoxins	29.97	2.798e3	1.659e3	1.499	1.69	1.55	20.4	YES	NO	dd	dd	0.415
11	Total-pentadoxins	29.83	3.114e3	2.250e3	1.499	1.38	1.55	20.3	YES	NO	bd	bd	0.500
12	Total-pentadoxins	29.63	3.300e3	2.343e3	1.499	1.41	1.55	22.2	YES	NO	bb	bb	0.526
13	123478-HxCDD	35.73	3.439e3	2.481e3	0.917	1.39	1.24	23.7	YES	NO	dd	bd	0.752
14	Total-hexadoxins	34.85	4.233e4	3.505e4	0.958	1.21	1.24	196.1	YES	NO	bd	bd	9.188
15	Total-hexadoxins	34.48	7.860e3	5.755e3	0.958	1.37	1.24	51.4	YES	NO	bb	bb	1.617
16	124679-HxCDD	33.70	3.724e4	3.061e4	1.104	1.22	1.24	253.6	YES	NO	bb	bb	7.166
17	123789-HxCDD	36.24	7.581e3	6.398e3	0.869	1.18	1.24	55.3	YES	NO	bb	bb	1.831
18	Total-hexadoxins	36.02	2.575e3	1.850e3	0.958	1.39	1.24	16.9	YES	NO	db	db	0.525
19	123678-HxCDD	35.85	1.485e4	1.236e4	0.944	1.20	1.24	98.3	YES	NO	dd	dd	3.204
20	1234678-HpCDD	39.96	3.560e5	3.431e5	1.237	1.04	1.05	1958.8	YES	NO	bb	bb	90.641
21	1234679-HPCDD	38.94	5.165e5	4.954e5	1.554	1.04	1.05	2919.9	YES	NO	bb	bb	104.392
22	OCDD	44.61	2.509e6	2.821e6	1.212	0.89	0.89	11544.9	YES	NO	bb	bb	745.252

Quantify Totals Report MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.58	2.232e3	2.875e3	1.034	0.78	0.77	20.3	YES	NO	db	dd	0.336
2	Total-tetrafurans	23.47	2.813e3	4.139e3	1.034	0.68	0.77	26.7	YES	NO	bd	dd	0.457
3	Total-tetrafurans	23.32	9.357e2	1.310e3	1.034	0.71	0.77	11.2	YES	NO	db	dd	0.148
4	Total-tetrafurans	22.82	5.192e3	6.013e3	1.034	0.86	0.77	45.1	YES	NO	bd	bd	0.736
5	Total-tetrafurans	22.24	1.632e3	2.128e3	1.034	0.77	0.77	14.5	YES	NO	db	db	0.247
6	Total-tetrafurans	27.07	1.339e3	1.686e3	1.034	0.79	0.77	12.7	YES	NO	bb	bb	0.199
7	Total-tetrafurans	25.70	2.791e3	3.250e3	1.034	0.86	0.77	23.6	YES	NO	db	db	0.397
8	Total-tetrafurans	25.62	1.374e3	1.826e3	1.034	0.75	0.77	13.2	YES	NO	dd	dd	0.210
9	2378-TCDF	25.48	2.729e3	3.880e3	0.951	0.70	0.77	24.0	YES	NO	bd	dd	0.472
10	Total-tetrafurans	25.25	6.803e3	9.554e3	1.034	0.71	0.77	47.8	YES	NO	bb	dd	1.075
11	Total-tetrafurans	24.57	2.391e3	3.147e3	1.034	0.76	0.77	22.5	YES	NO	bb	bb	0.364
12	Total-tetrafurans	24.38	3.951e3	5.238e3	1.034	0.75	0.77	35.8	YES	NO	db	db	0.604
13	Total-tetrafurans	24.23	1.988e3	2.707e3	1.034	0.73	0.77	16.1	YES	NO	dd	dd	0.309
14	Total-tetrafurans	24.15	4.160e3	5.713e3	1.034	0.73	0.77	30.0	YES	NO	dd	dd	0.649
15	23478-PeCDF	30.96	5.511e3	3.680e3	1.072	1.50	1.55	55.7	YES	NO	db	MM	0.697
16	12378-PeCDF	29.63	2.994e3	1.841e3	0.963	1.63	1.55	30.7	YES	NO	bb	bb	0.392
17	Total-pentafurans	29.29	9.191e3	6.442e3	0.984	1.43	1.55	54.5	YES	NO	db	db	1.266
18	Total-pentafurans	28.57	2.480e4	1.626e4	0.984	1.53	1.55	172.4	YES	NO	dd	MM	3.325
19	Total-pentafurans	28.38	6.099e3	3.679e3	0.984	1.66	1.55	53.0	YES	NO	dd	dd	0.792
20	234678-HxCDF	35.62	3.877e3	3.147e3	1.138	1.23	1.24	69.3	YES	NO	db	db	0.710
21	Total-hexafurans	35.59	3.376e3	2.653e3	1.155	1.27	1.24	69.1	YES	NO	bd	bd	0.601
22	Total-hexafurans	35.08	6.571e2	6.224e2	1.155	1.06	1.24	9.3	YES	NO	db	bb	0.128
23	123678-HxCDF	34.74	5.468e3	4.323e3	1.100	1.26	1.24	85.4	YES	NO	db	db	0.932
24	123478-HxCDF	34.61	1.525e4	1.210e4	1.142	1.26	1.24	242.4	YES	NO	bd	dd	2.697
25	Total-hexafurans	34.45	2.469e3	2.032e3	1.155	1.21	1.24	38.8	YES	NO	bb	bd	0.449
26	Total-hexafurans	33.97	6.941e4	5.526e4	1.155	1.26	1.24	1071.6	YES	NO	bb	bb	12.430
27	Total-hexafurans	33.67	1.482e3	1.260e3	1.155	1.18	1.24	22.5	YES	NO	bb	bb	0.273
28	Total-hexafurans	33.13	4.624e4	3.688e4	1.155	1.25	1.24	683.1	YES	NO	bb	bb	8.288
29	123468-HXCDF	32.92	1.436e4	1.114e4	1.332	1.29	1.24	225.0	YES	NO	bb	bb	2.154
30	123789-HxCDF	36.61	2.602e3	1.982e3	1.066	1.31	1.24	40.8	YES	NO	bd	bb	0.566
31	Total-heptafurans	39.14	2.196e5	2.047e5	1.211	1.07	1.05	1962.9	YES	NO	bb	bb	48.598
32	Total-heptafurans	38.89	1.840e3	1.977e3	1.211	0.93	1.05	16.9	YES	NO	bb	bb	0.437
33	1234678-HpCDF	38.49	1.007e5	9.168e4	1.210	1.10	1.05	933.7	YES	NO	bb	bb	19.849
34	1234789-HpCDF	40.69	6.984e3	6.896e3	1.213	1.01	1.05	56.6	YES	NO	bb	bb	1.787
35	OCDF	44.84	2.004e5	2.188e5	1.391	0.92	0.89	1092.5	YES	NO	bd	bb	51.089
36	Total-penta1	26.90	3.252e4	1.996e4		1.63	1.55	547.8	YES	NO	bb	bb	4.471
37	Total-tetradiioxins	23.74	4.057e2	4.606e2	1.100	0.88	0.77	5.1	YES	NO	bb	db	0.077

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-tetradoxins	23.53	1.615e3	2.187e3	1.100	0.74	0.77	23.3	YES	NO	bb	bd	0.336
39	Total-tetradoxins	26.24	3.536e2	5.105e2	1.100	0.69	0.77	5.5	YES	NO	db	db	0.076
40	2378-TCDD	26.11	1.117e3	1.706e3	1.197	0.65	0.77	13.4	YES	NO	bd	bd	0.229
41	Total-tetradoxins	24.73	1.059e3	1.294e3	1.100	0.82	0.77	15.5	YES	NO	bb	bb	0.208
42	Total-tetradoxins	24.46	6.975e2	7.910e2	1.100	0.88	0.77	8.0	YES	NO	bb	bb	0.132
43	Total-tetradoxins	24.25	1.460e3	1.959e3	1.100	0.75	0.77	19.9	YES	NO	bb	bb	0.302
44	12479-PECDD	28.55	7.354e3	4.766e3	2.043	1.54	1.55	33.0	YES	NO	bb	bb	0.828
45	12378-PeCDD	31.22	3.296e3	2.230e3	1.129	1.48	1.55	21.1	YES	NO	bb	bb	0.683
46	Total-pentadoxins	29.97	2.798e3	1.659e3	1.499	1.69	1.55	20.4	YES	NO	dd	dd	0.415
47	Total-pentadoxins	29.83	3.114e3	2.250e3	1.499	1.38	1.55	20.3	YES	NO	bd	bd	0.500
48	Total-pentadoxins	29.63	3.300e3	2.343e3	1.499	1.41	1.55	22.2	YES	NO	bb	bb	0.526
49	123478-HxCDD	35.73	3.439e3	2.481e3	0.917	1.39	1.24	23.7	YES	NO	dd	bd	0.752
50	Total-hexadoxins	34.85	4.233e4	3.505e4	0.958	1.21	1.24	196.1	YES	NO	bd	bd	9.188
51	Total-hexadoxins	34.48	7.860e3	5.755e3	0.958	1.37	1.24	51.4	YES	NO	bb	bb	1.617
52	124679-HXCDD	33.70	3.724e4	3.061e4	1.104	1.22	1.24	253.6	YES	NO	bb	bb	7.166
53	123789-HxCDD	36.24	7.581e3	6.398e3	0.869	1.18	1.24	55.3	YES	NO	bb	bb	1.831
54	Total-hexadoxins	36.02	2.575e3	1.850e3	0.958	1.39	1.24	16.9	YES	NO	db	db	0.525
55	123678-HxCDD	35.85	1.485e4	1.236e4	0.944	1.20	1.24	98.3	YES	NO	dd	dd	3.204
56	1234678-HpCDD	39.96	3.560e5	3.431e5	1.237	1.04	1.05	1958.8	YES	NO	bb	bb	90.641
57	1234679-HPCDD	38.94	5.165e5	4.954e5	1.554	1.04	1.05	2919.9	YES	NO	bb	bb	104.392
58	OCDD	44.61	2.509e6	2.821e6	1.212	0.89	0.89	11544.9	YES	NO	bb	bb	745.252

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.40	4.162e5					4.2	YES		bb		
2	FUNCTION1 PFK	23.06	8.442e5					11.2	YES		bb		
3	FUNCTION1 PFK	22.68	1.603e6					4.7	YES		db		
4	FUNCTION1 PFK	22.21	1.999e6					32.1	YES		dd		
5	FUNCTION1 PFK	22.00	1.384e6					45.7	YES		dd		
6	FUNCTION1 PFK	21.95	2.936e6					47.7	YES		dd		
7	FUNCTION1 PFK	21.71	2.564e6					60.6	YES		dd		
8	FUNCTION1 PFK	21.37	1.417e7					82.8	YES		bd		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.07	4.744e4					4.4	YES		bb		0.000
2	FUNCTION2 PFK	28.92	6.894e5					15.3	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.79	1.227e6					14.2	YES		bb		0.000
2	FUNCTION3 PFK	36.28	1.584e6					11.3	YES		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	FUNCTION4 PFK	37.60	8.794e3					1.2	NO		bb		
2	FUNCTION4 PFK	40.20	7.408e3					1.3	NO		bb		
3	FUNCTION4 PFK	40.12	2.670e3					0.7	NO		bb		
4	FUNCTION4 PFK	40.08	3.609e3					0.8	NO		bb		
5	FUNCTION4 PFK	39.96	1.368e3					0.5	NO		bb		
6	FUNCTION4 PFK	39.89	3.306e3					0.7	NO		bb		
7	FUNCTION4 PFK	39.81	2.669e3					0.6	NO		bb		
8	FUNCTION4 PFK	39.45	2.424e4					1.8	NO		db		
9	FUNCTION4 PFK	39.38	1.711e4					1.6	NO		dd		
10	FUNCTION4 PFK	39.34	1.285e4					1.5	NO		bd		
11	FUNCTION4 PFK	38.30	1.227e4					1.3	NO		bb		
12	FUNCTION4 PFK	38.13	1.569e4					1.1	NO		db		
13	FUNCTION4 PFK	38.06	5.365e3					1.0	NO		bd		
14	FUNCTION4 PFK	37.99	9.236e3					1.2	NO		db		
15	FUNCTION4 PFK	37.95	5.291e3					1.0	NO		bd		
16	FUNCTION4 PFK	37.90	9.297e3					1.2	NO		bb		
17	FUNCTION4 PFK	37.68	1.113e3					0.4	NO		bb		
18	FUNCTION4 PFK	42.05	1.016e4					1.3	NO		bb		
19	FUNCTION4 PFK	41.98	5.079e3					0.8	NO		bb		
20	FUNCTION4 PFK	41.84	2.249e4					1.2	NO		db		
21	FUNCTION4 PFK	41.74	5.456e3					0.9	NO		bd		
22	FUNCTION4 PFK	41.55	1.244e4					1.0	NO		bb		
23	FUNCTION4 PFK	41.28	7.032e3					1.0	NO		db		
24	FUNCTION4 PFK	41.25	5.340e3					1.0	NO		bd		
25	FUNCTION4 PFK	41.20	1.475e3					0.5	NO		bb		
26	FUNCTION4 PFK	41.16	1.130e3					0.4	NO		bb		
27	FUNCTION4 PFK	40.91	7.137e3					1.1	NO		bb		
28	FUNCTION4 PFK	40.54	1.895e4					1.2	NO		db		
29	FUNCTION4 PFK	40.48	1.975e4					2.0	NO		dd		
30	FUNCTION4 PFK	40.42	1.047e4					1.7	NO		dd		
31	FUNCTION4 PFK	40.38	4.827e3					0.7	NO		bd		
32	FUNCTION4 PFK	40.29	9.229e3					1.4	NO		db		
33	FUNCTION4 PFK	40.26	5.980e3					0.9	NO		bd		
34	FUNCTION4 PFK	42.93	5.802e3					1.1	NO		bb		
35	FUNCTION4 PFK	42.74	4.870e3					0.8	NO		db		
36	FUNCTION4 PFK	42.71	4.556e3					0.9	NO		bd		
37	FUNCTION4 PFK	42.47	2.527e4					2.1	NO		bb		

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.30	9.048e3					2.2	NO		db		
2	FUNCTION5 PFK	44.20	4.790e4					5.2	YES		dd		
3	FUNCTION5 PFK	44.17	3.216e4					5.9	YES		dd		
4	FUNCTION5 PFK	44.08	1.190e5					9.6	YES		dd		
5	FUNCTION5 PFK	44.02	9.716e4					12.1	YES		dd		
6	FUNCTION5 PFK	43.78	5.980e5					20.3	YES		dd		
7	FUNCTION5 PFK	43.73	1.859e5					22.3	YES		dd		
8	FUNCTION5 PFK	43.58	8.678e5					27.3	YES		dd		
9	FUNCTION5 PFK	43.44	9.047e5					32.6	YES		dd		
10	FUNCTION5 PFK	43.20	1.071e6					41.2	YES		dd		
11	FUNCTION5 PFK	43.05	8.589e5					44.7	YES		bd		
12	FUNCTION5 PFK	45.94	5.879e2					0.4	NO		bb		
13	FUNCTION5 PFK	45.90	1.048e4					1.1	NO		bb		
14	FUNCTION5 PFK	45.60	2.950e3					0.9	NO		bb		
15	FUNCTION5 PFK	45.53	8.972e2					0.5	NO		bb		
16	FUNCTION5 PFK	45.41	1.756e3					0.7	NO		bb		
17	FUNCTION5 PFK	45.17	3.228e3					0.9	NO		bb		
18	FUNCTION5 PFK	45.03	7.198e3					1.2	NO		bb		
19	FUNCTION5 PFK	44.94	2.316e3					0.7	NO		bb		
20	FUNCTION5 PFK	44.90	7.814e2					0.5	NO		bb		
21	FUNCTION5 PFK	44.85	5.807e3					0.8	NO		bb		
22	FUNCTION5 PFK	44.51	4.273e3					1.1	NO		db		
23	FUNCTION5 PFK	44.47	5.215e3					1.4	NO		bd		
24	FUNCTION5 PFK	44.37	1.122e3					0.5	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.89	1.110e2					2.8	NO		bb		0.000
2	FUNCTION1 HXCD...	21.20	3.120e2					3.2	YES		bb		0.000
3	FUNCTION1 HXCD...	27.00	7.725e1					2.1	NO		bb		0.000
4	FUNCTION1 HXCD...	25.84	2.468e2					7.6	YES		bb		0.000
5	FUNCTION1 HXCD...	25.60	5.328e2					10.9	YES		db		0.000
6	FUNCTION1 HXCD...	25.51	3.218e2					7.4	YES		dd		0.000
7	FUNCTION1 HXCD...	25.42	1.058e2					4.2	YES		dd		0.000
8	FUNCTION1 HXCD...	25.28	3.710e2					5.1	YES		dd		0.000
9	FUNCTION1 HXCD...	25.19	1.605e2					3.9	YES		dd		0.000
10	FUNCTION1 HXCD...	25.05	7.754e1					2.5	NO		dd		0.000
11	FUNCTION1 HXCD...	24.86	2.047e2					2.9	NO		bd		0.000
12	FUNCTION1 HXCD...	24.70	1.018e2					2.6	NO		db		0.000
13	FUNCTION1 HXCD...	24.55	1.432e2					3.0	NO		bd		0.000
14	FUNCTION1 HXCD...	24.32	8.066e1					1.5	NO		bb		0.000
15	FUNCTION1 HXCD...	23.49	2.351e2					7.1	YES		bb		0.000

ETHERS2

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

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.87	8.572e1					2.3	NO		bb		0.000
2	FUNCTION2 HPCD...	28.66	1.264e2					4.1	YES		bb		0.000
3	FUNCTION2 HPCD...	31.91	1.044e2					2.5	NO		bb		0.000
4	FUNCTION2 HPCD...	31.43	7.537e1					2.0	NO		bb		0.000
5	FUNCTION2 HPCD...	30.23	1.335e2					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	36.69	1.271e2					3.6	YES		bb		0.000
2	FUNCTION3 OCDPE	36.22	7.633e1					3.6	YES		bb		0.000
3	FUNCTION3 OCDPE	35.84	1.092e2					4.3	YES		bb		0.000
4	FUNCTION3 OCDPE	32.80	1.725e2					5.2	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

Printed: Tuesday, August 01, 2023 08:21:20 Pacific Daylight Time

ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.77	8.565e1					4.7	YES		bb		0.000
2	FUNCTION4 NCDPE	38.13	1.480e4					387.1	YES		bb		0.000

ETHERS6

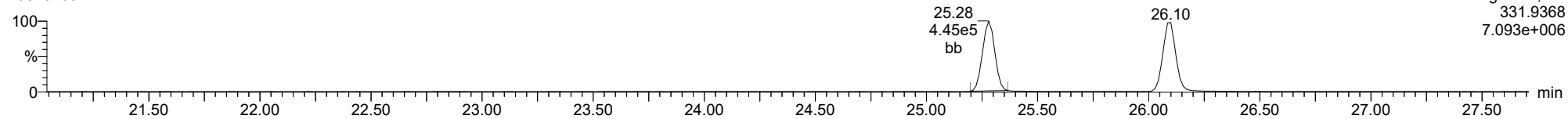
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.61	2.161e2					4.9	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

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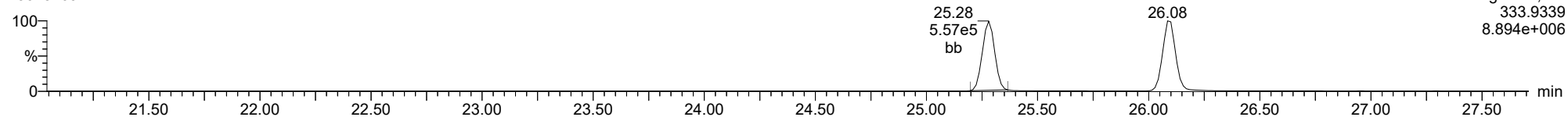
13C-1234-TCDD

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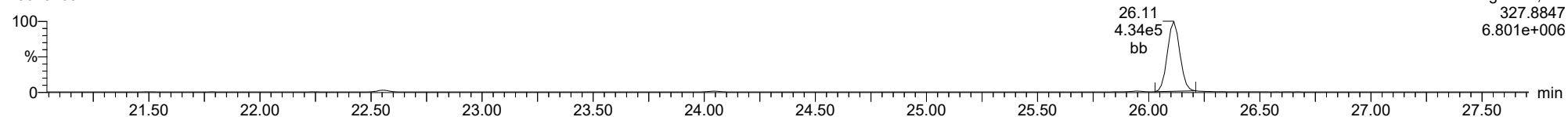
13C-1234-TCDD

23073109



37CL-2378-TCDD

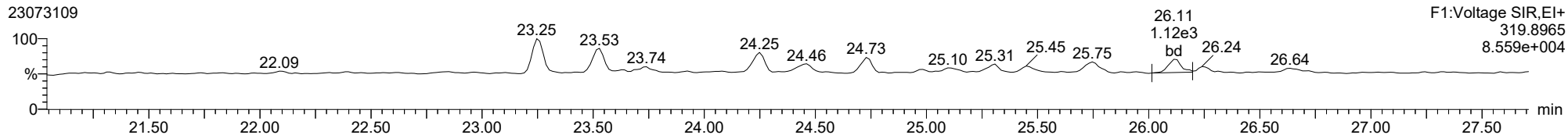
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

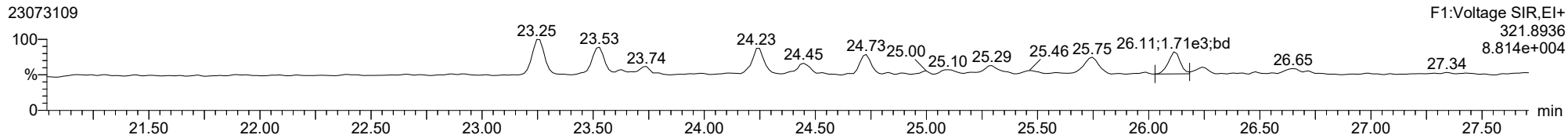
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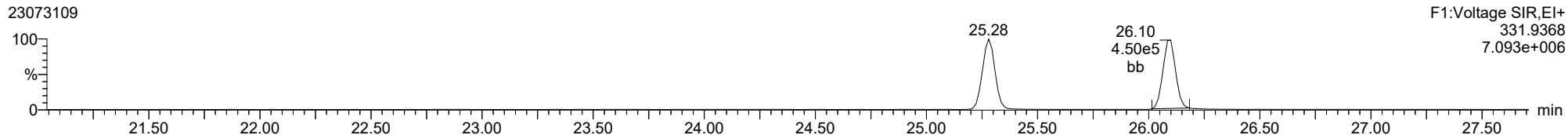
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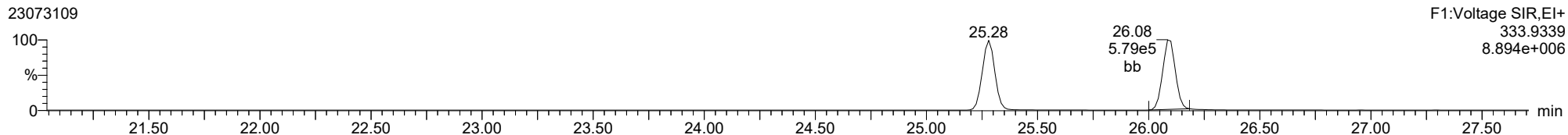
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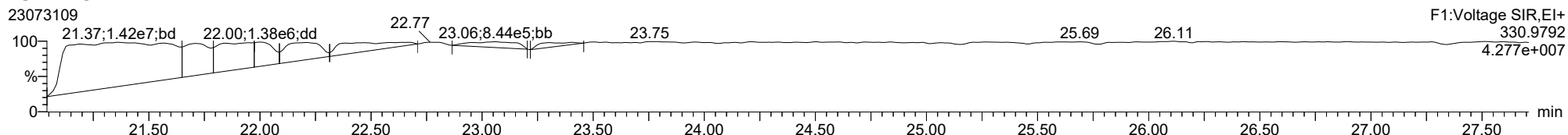
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FUNCTION1 PFK

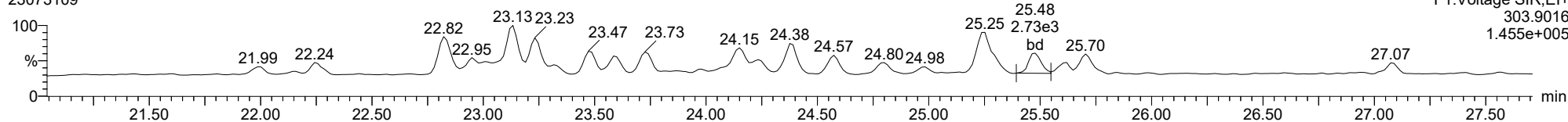
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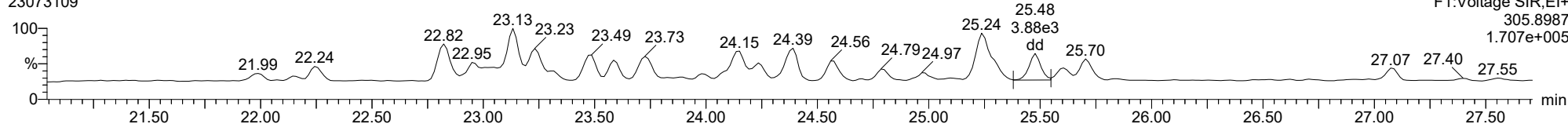
2378-TCDF

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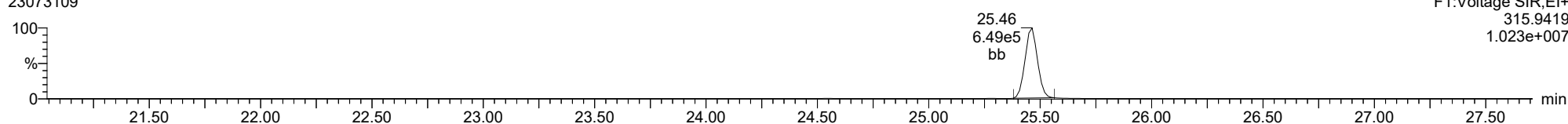
2378-TCDF

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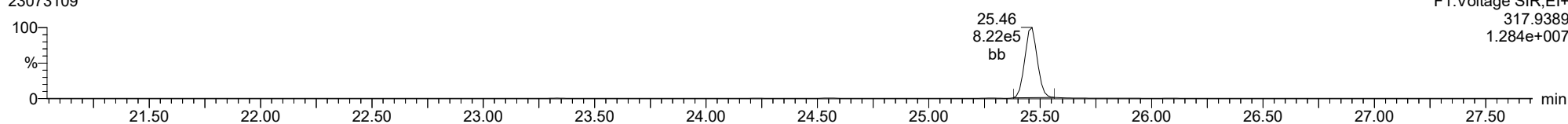
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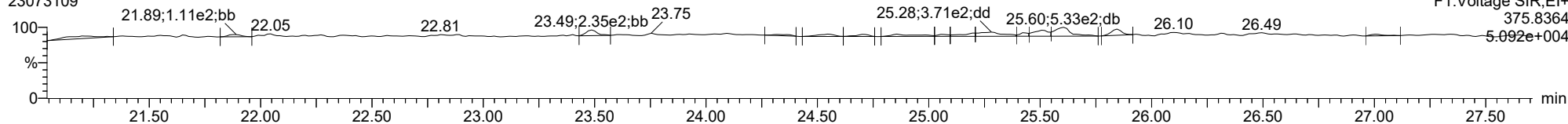
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FUNCTION1 HXCDPE

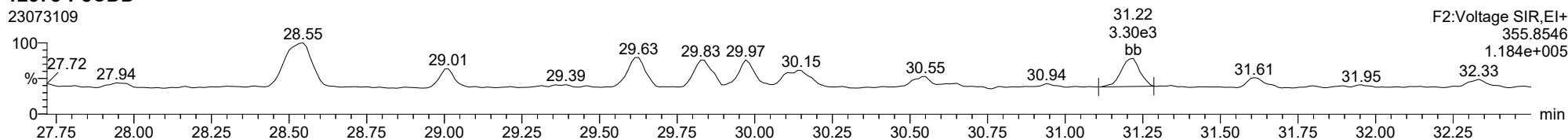
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

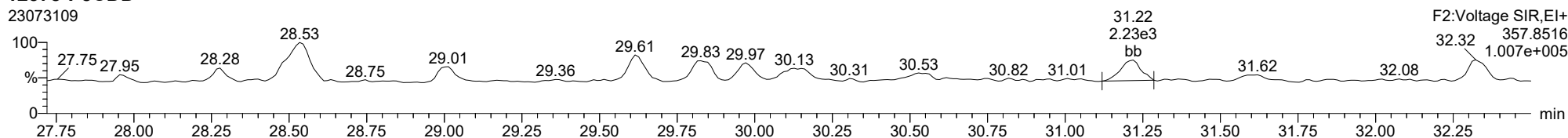
12378-PeCDD

23073109



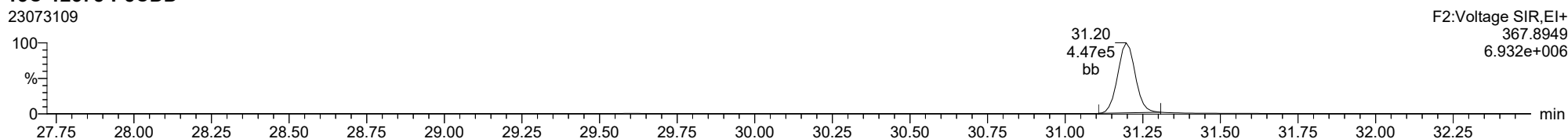
12378-PeCDD

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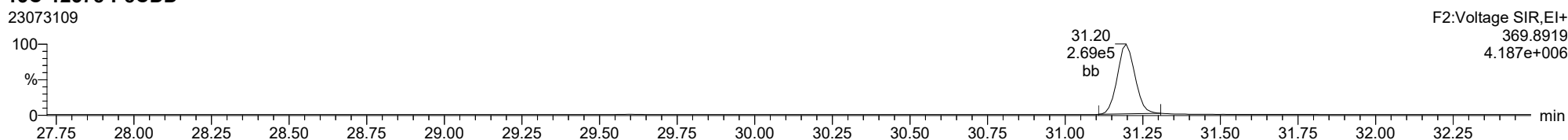
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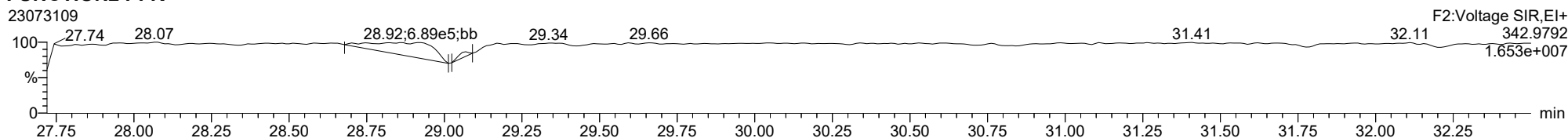
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FUNCTION2 PFK

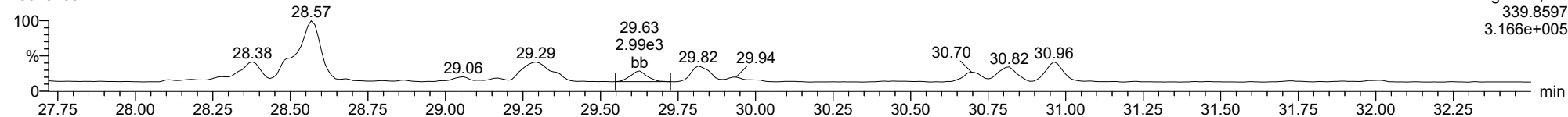
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

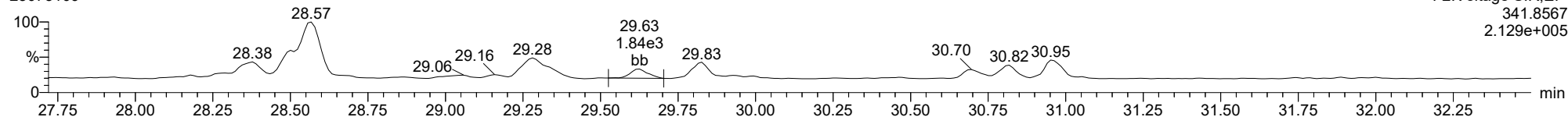
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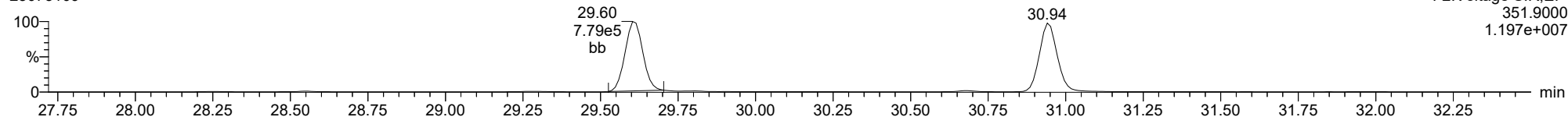
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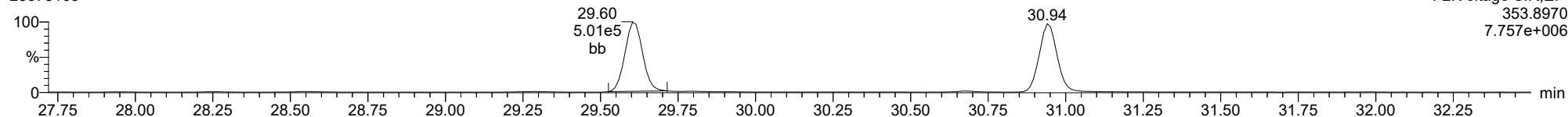
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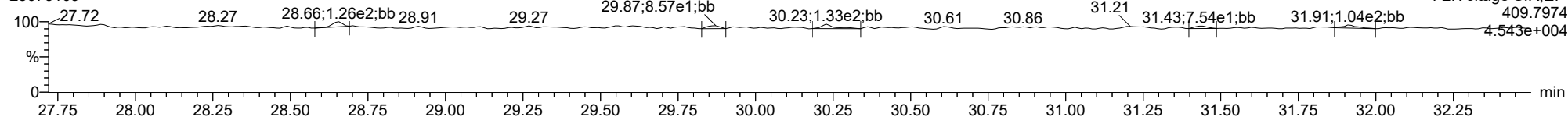
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FUNCTION2 HPCDPE

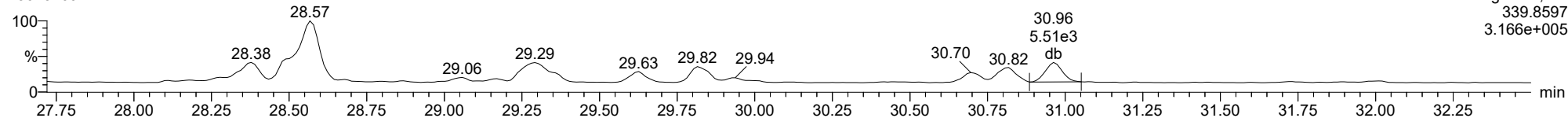
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

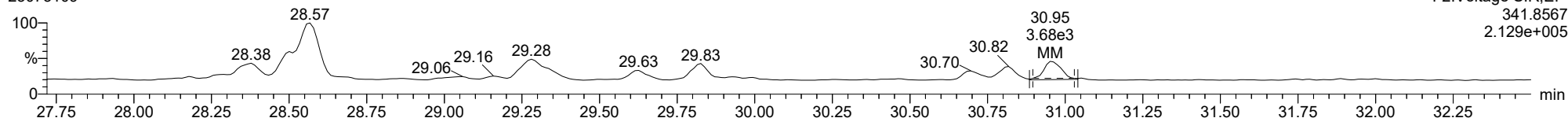
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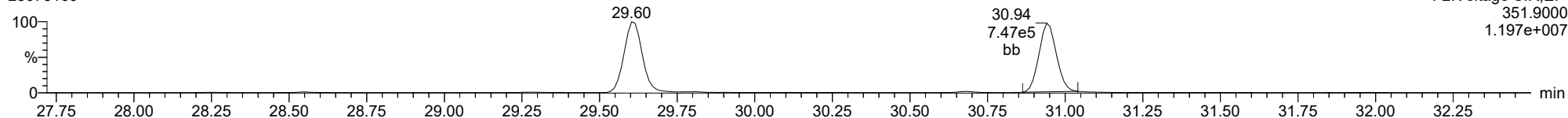
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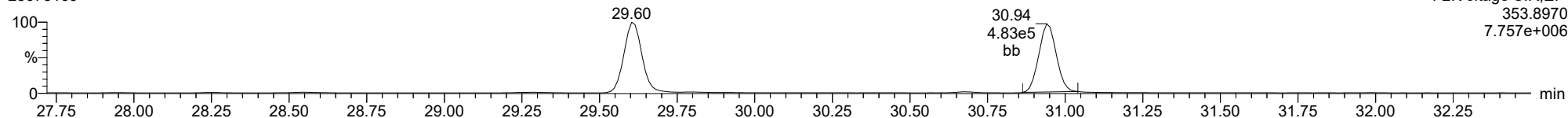
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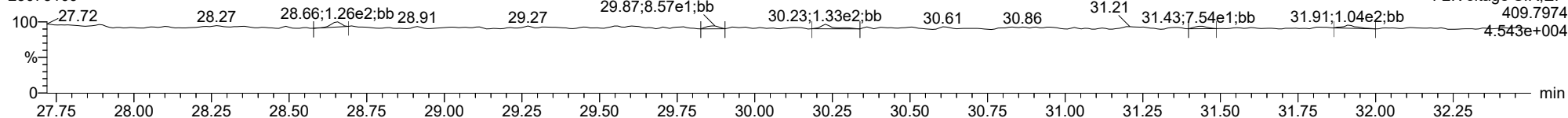
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FUNCTION2 HPCDPE

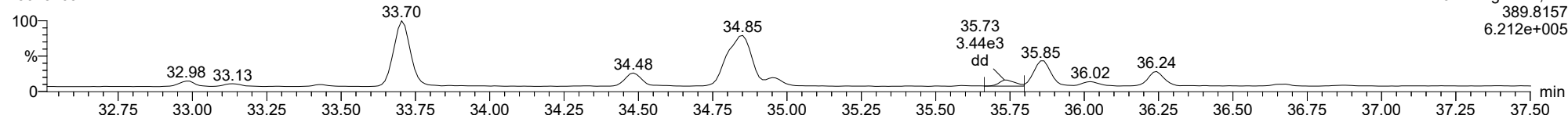
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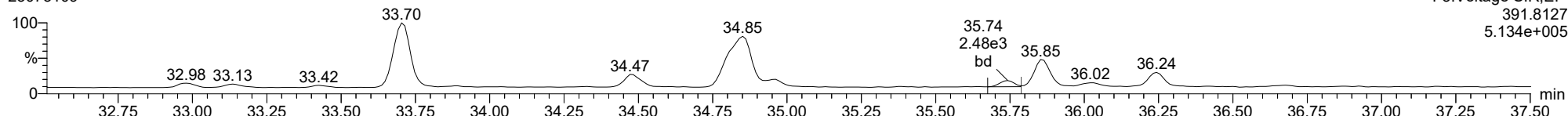
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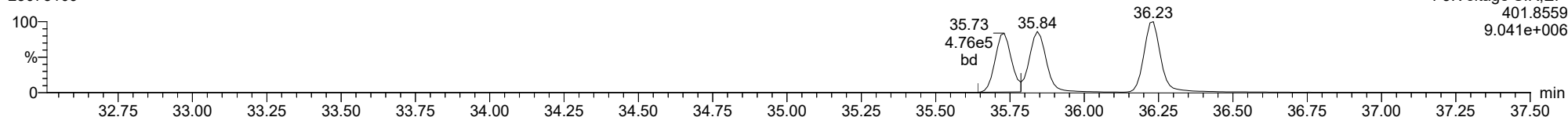
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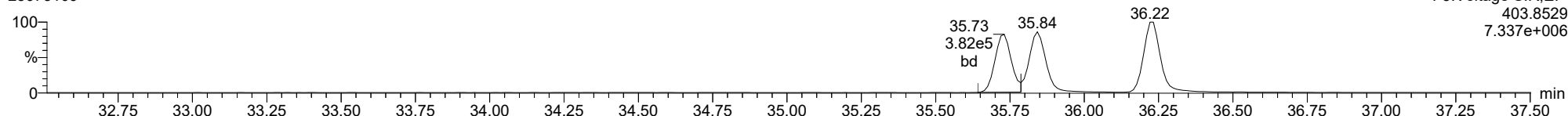
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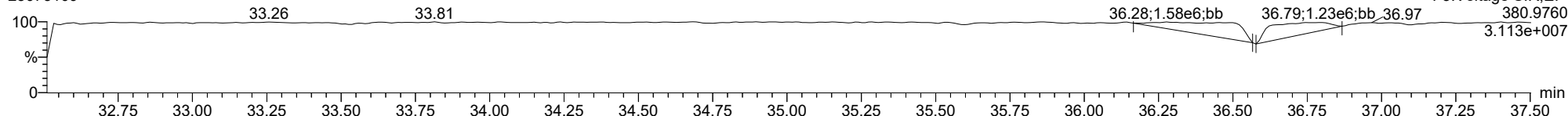
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FUNCTION3 PFK

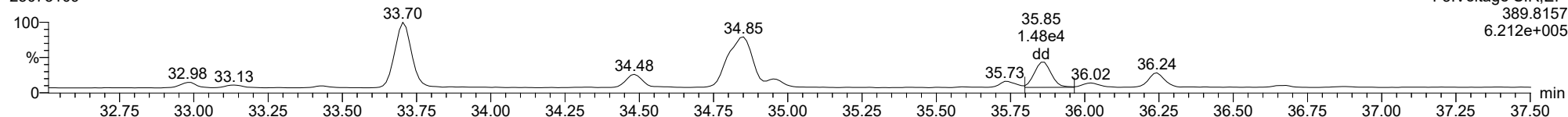
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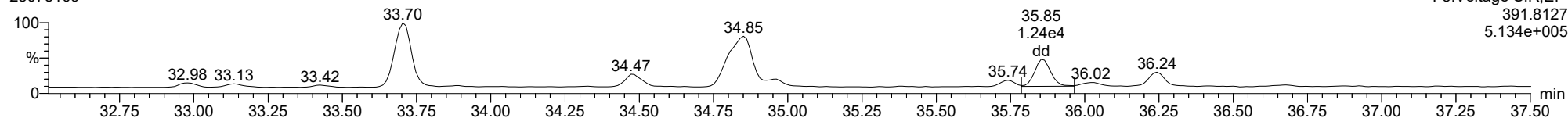
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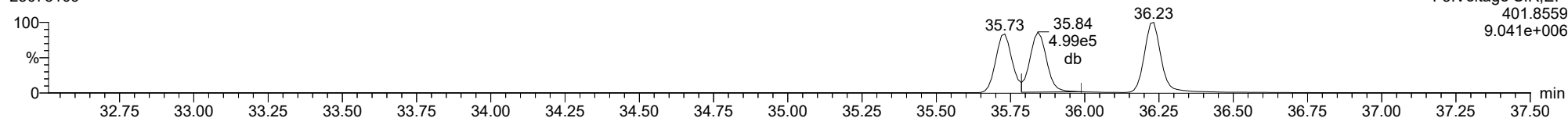
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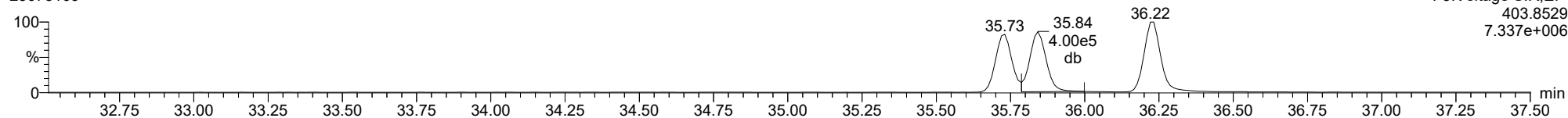
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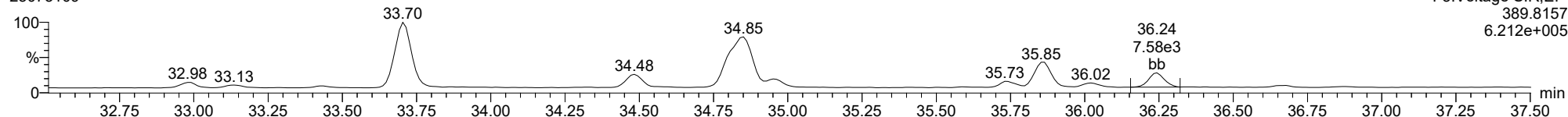
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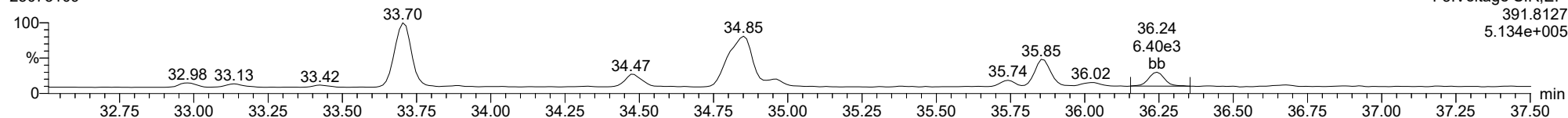
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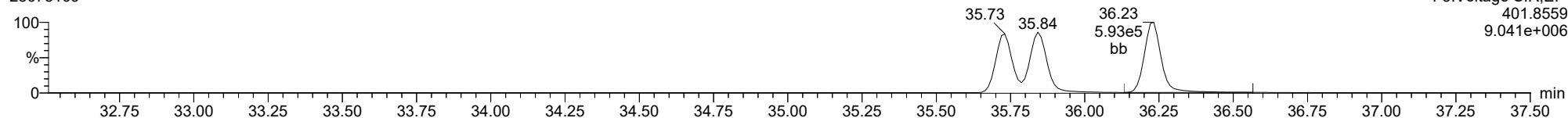
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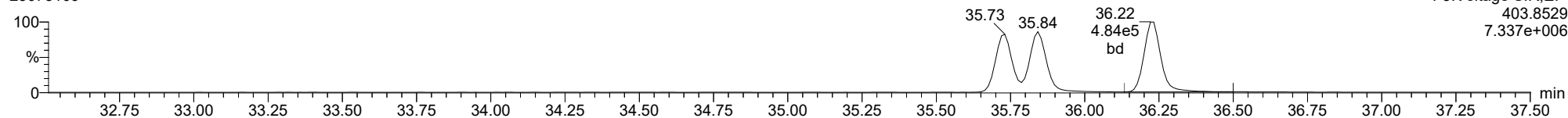
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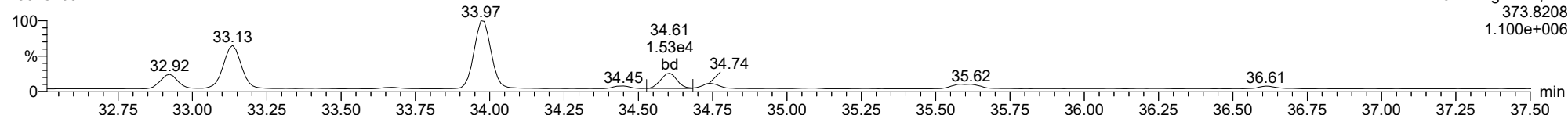
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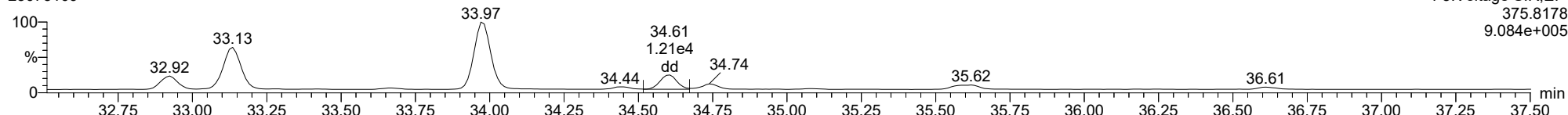
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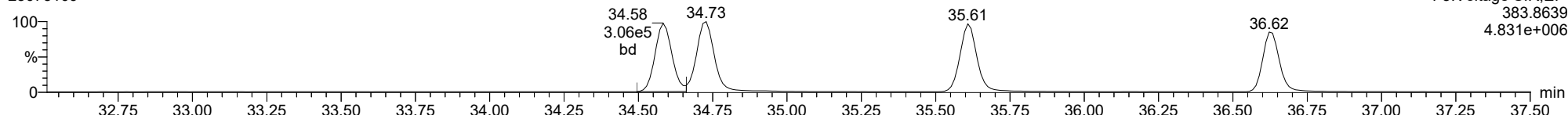
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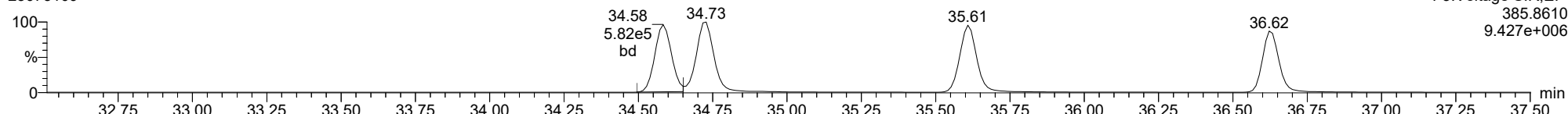
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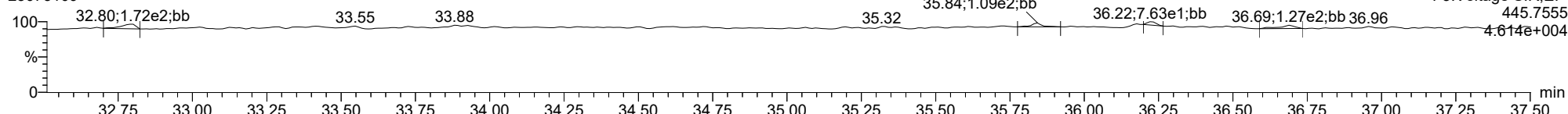
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FUNCTION3 OCDPE

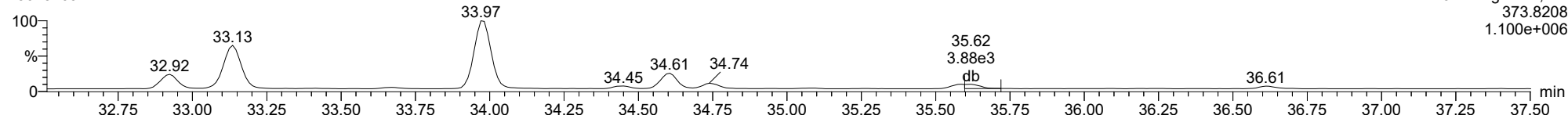
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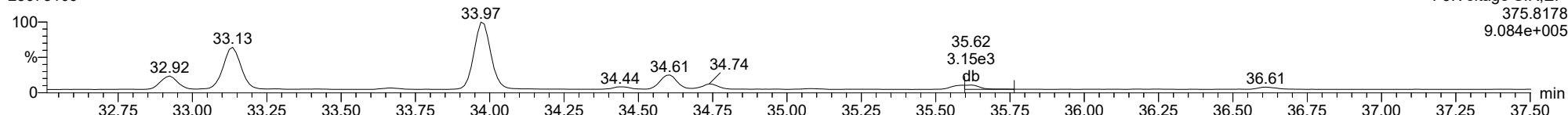
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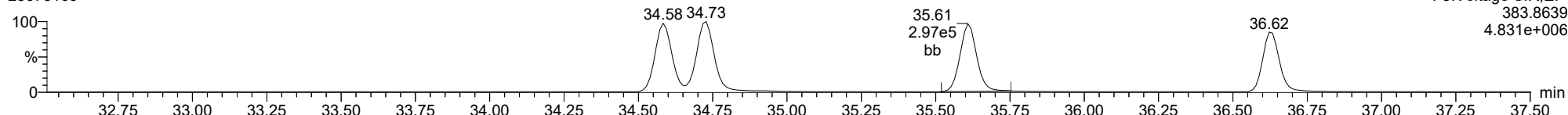
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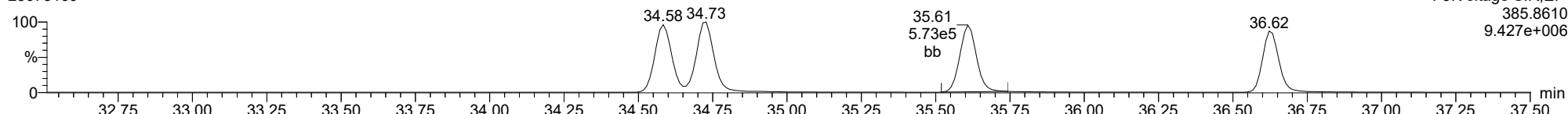
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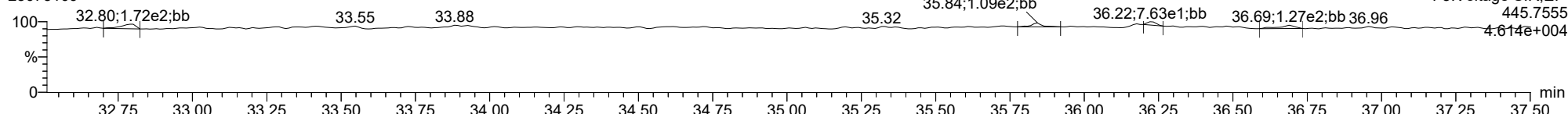
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FUNCTION3 OCDPE

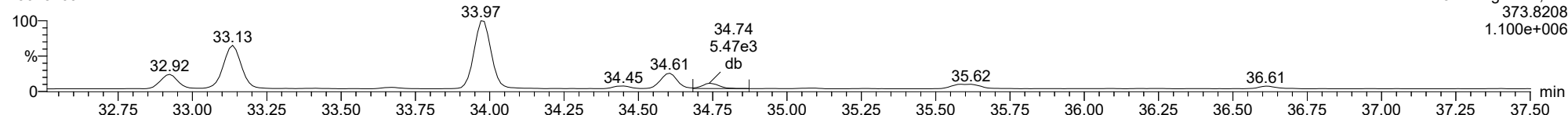
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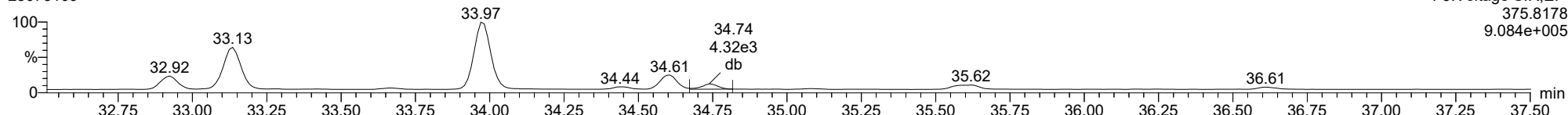
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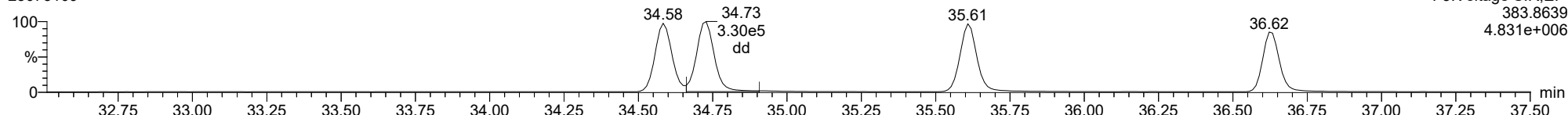
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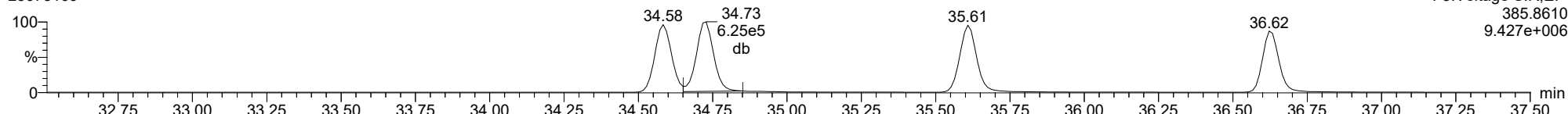
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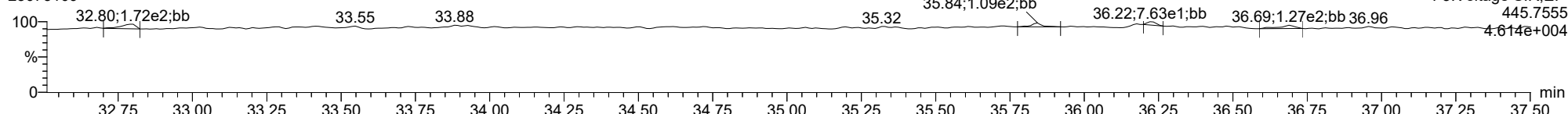
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FUNCTION3 OCDPE

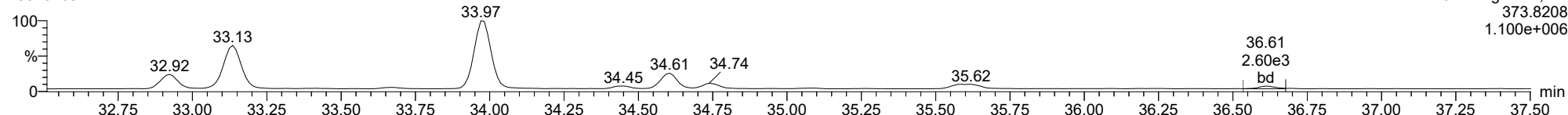
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

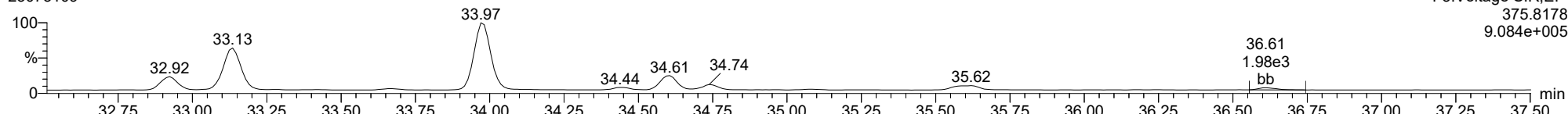
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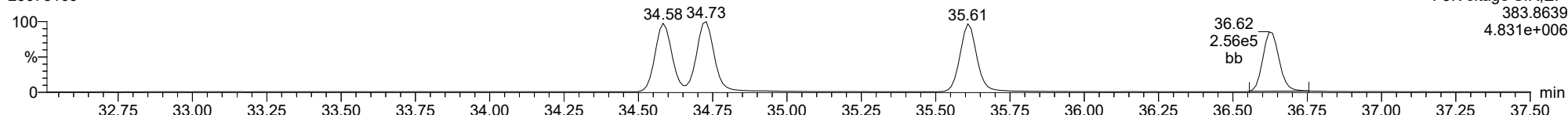
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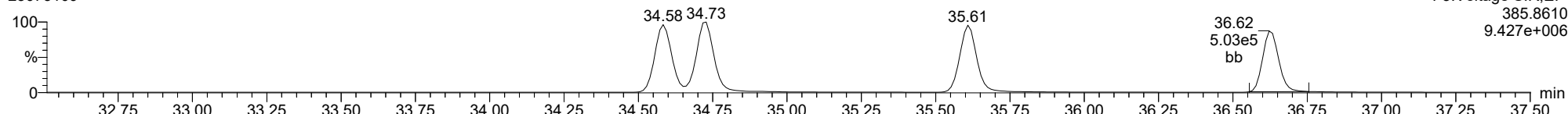
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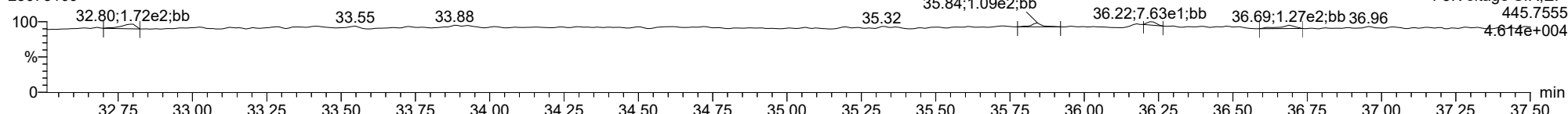
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FUNCTION3 OCDPE

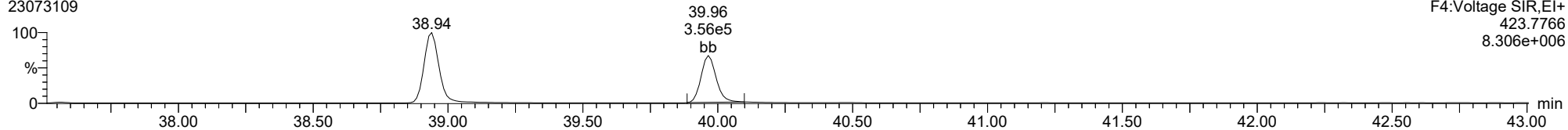
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

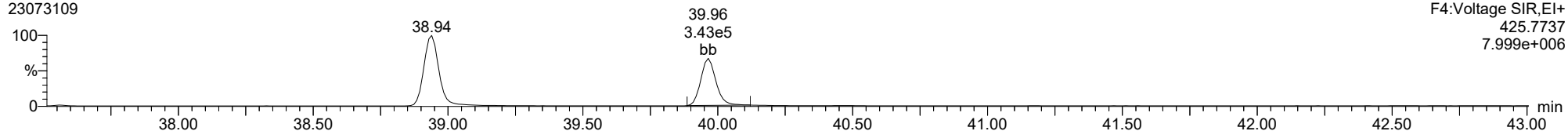
1234678-HpCDD

23073109



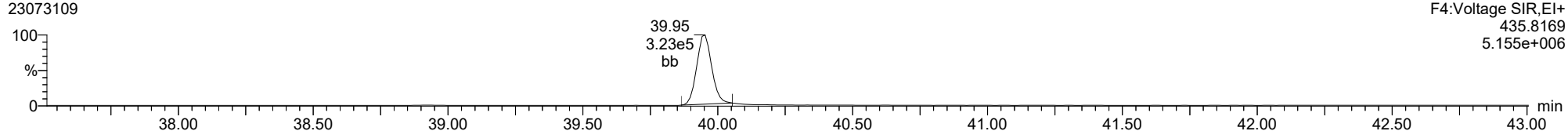
1234678-HpCDD

23073109



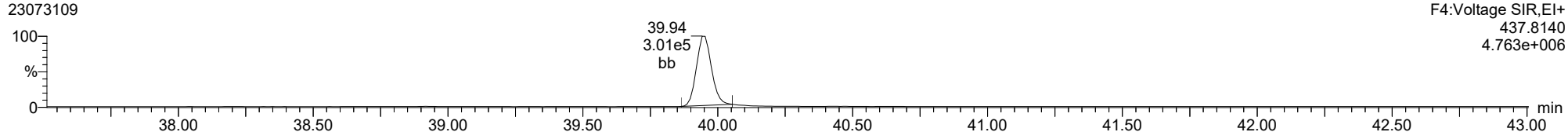
13C-1234678-HpCDD

23073109



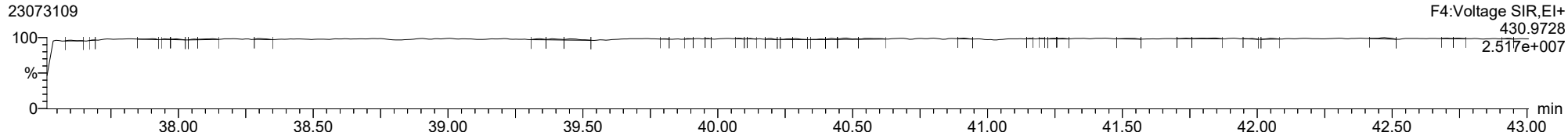
13C-1234678-HpCDD

23073109



FUNCTION4 PFK

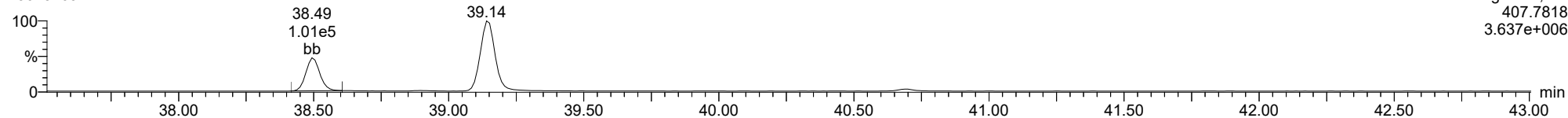
23073109



ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

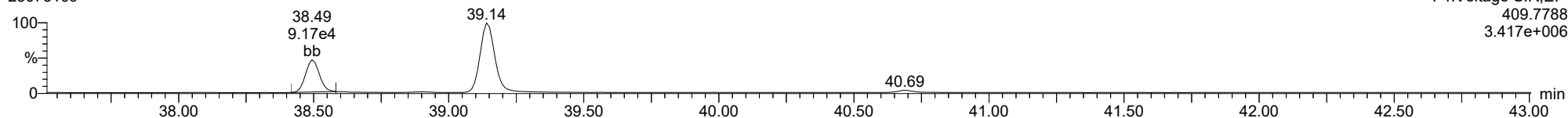
1234678-HpCDF

23073109



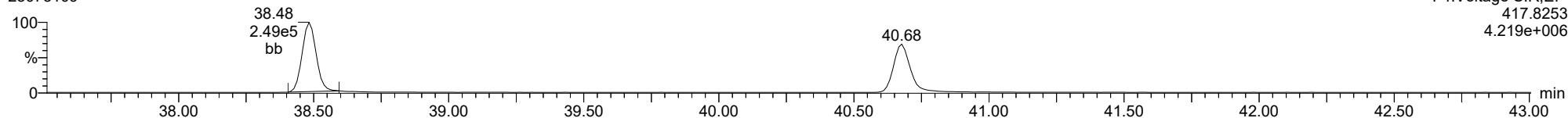
1234678-HpCDF

23073109



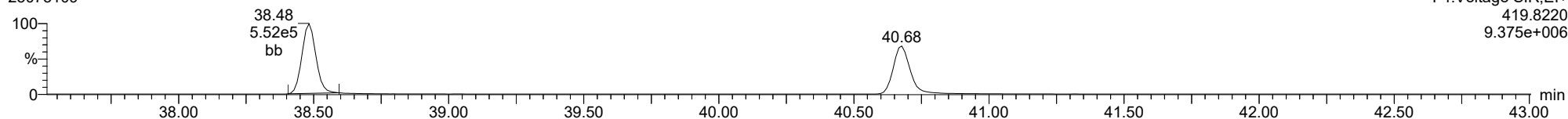
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23073109



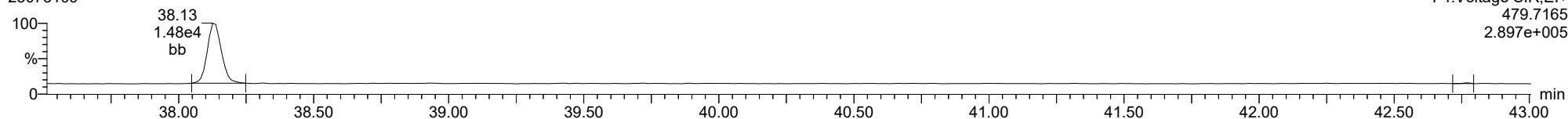
13C-1234678-HpCDF

23073109



FUNCTION4 NCDPE

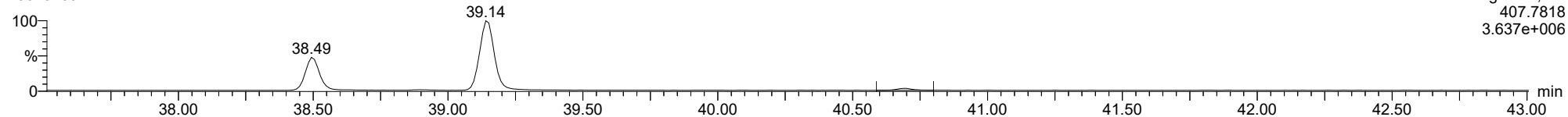
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

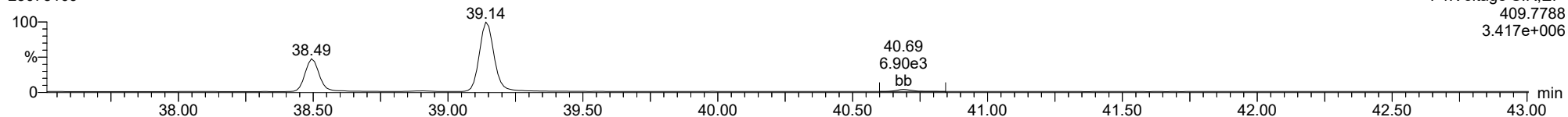
23073109



F4:Voltage SIR,El+
409.7788
3.637e+006

1234789-HpCDF

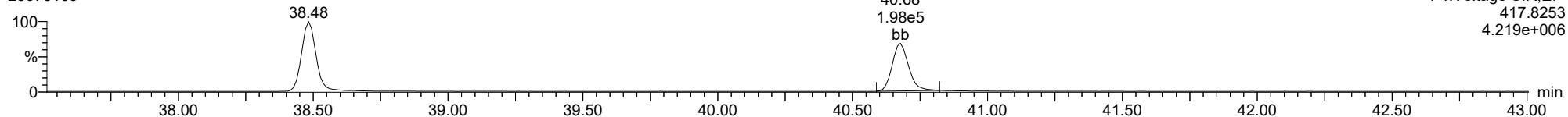
23073109



F4:Voltage SIR,El+
409.7788
3.417e+006

13C-1234789-HpCDF

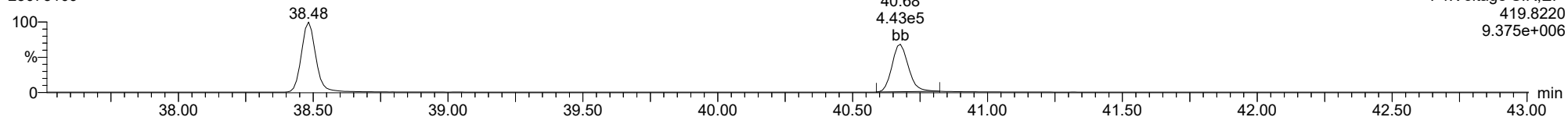
23073109



F4:Voltage SIR,El+
417.8253
4.219e+006

13C-1234789-HpCDF

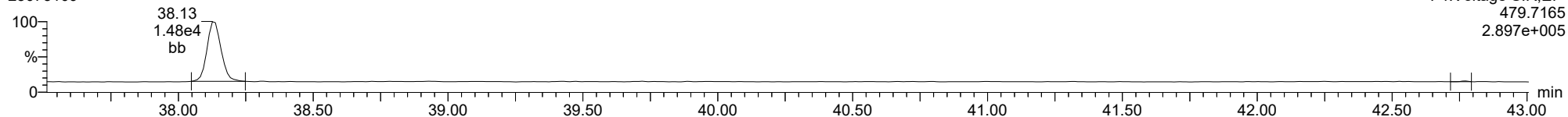
23073109



F4:Voltage SIR,El+
419.8220
9.375e+006

FUNCTION4 NCDPE

23073109

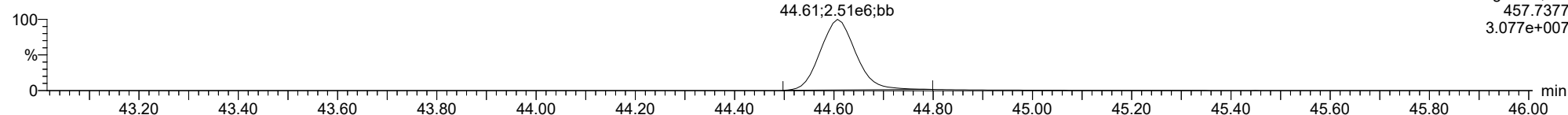


F4:Voltage SIR,El+
479.7165
2.897e+005

ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

OCDD

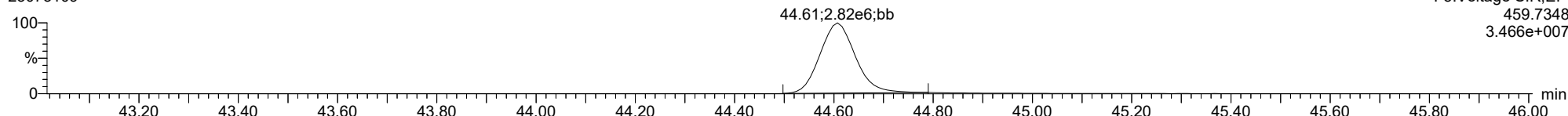
23073109



F5:Voltage SIR,EI+
457.7377
3.077e+007

OCDD

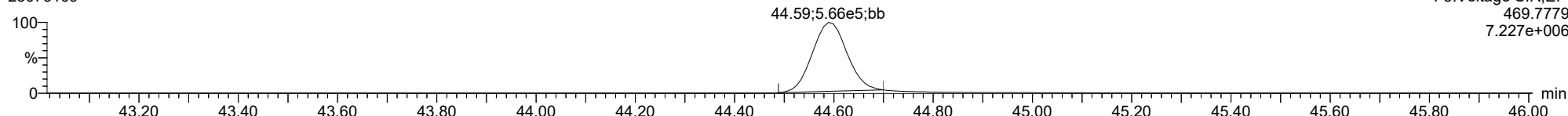
23073109



F5:Voltage SIR,EI+
459.7348
3.466e+007

13C-OCDD

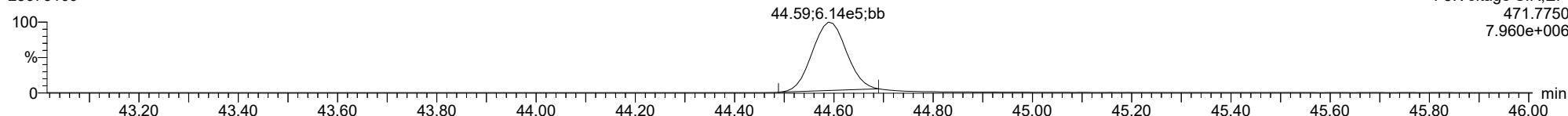
23073109



F5:Voltage SIR,EI+
469.7779
7.227e+006

13C-OCDD

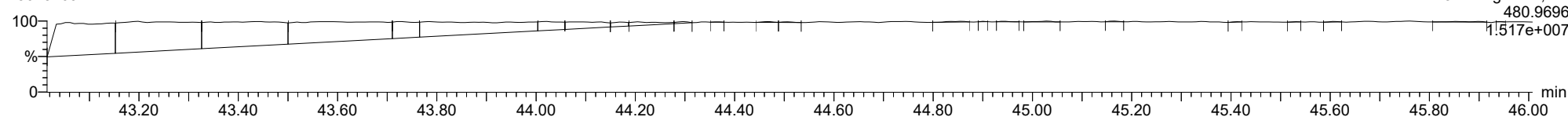
23073109



F5:Voltage SIR,EI+
471.7750
7.960e+006

FUNCTION5 PFK

23073109

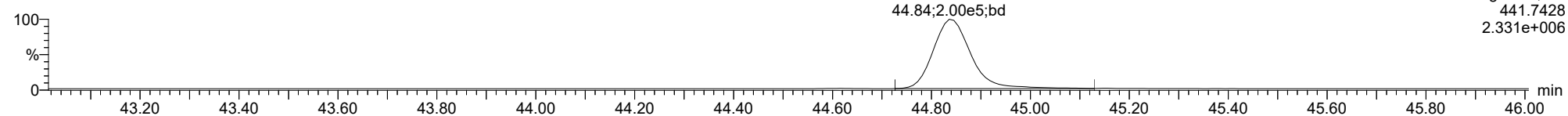


F5:Voltage SIR,EI+
480.9696
1.517e+007

ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

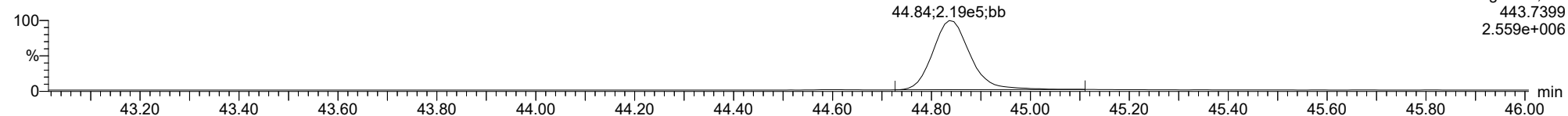
OCDF

23073109



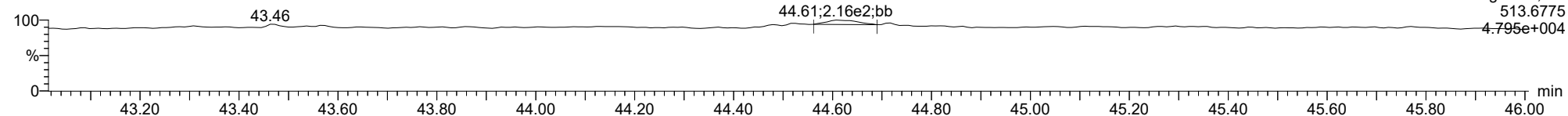
OCDF

23073109



FUNCTION5 DCDPE

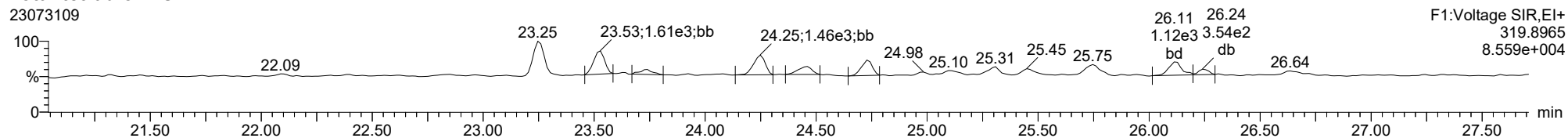
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

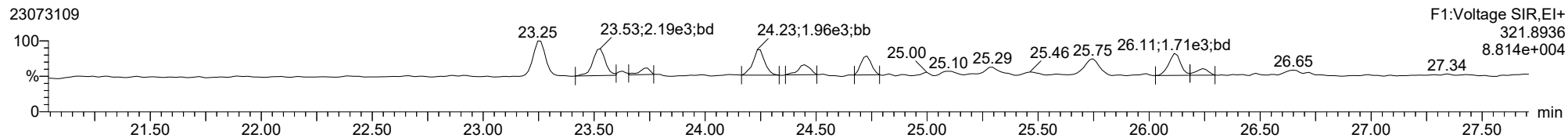
Total-tetradoxins

23073109



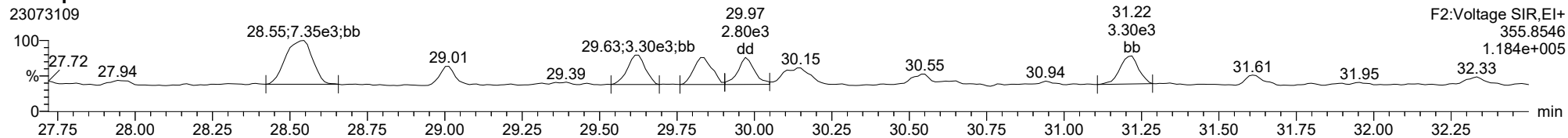
Total-tetradoxins

23073109



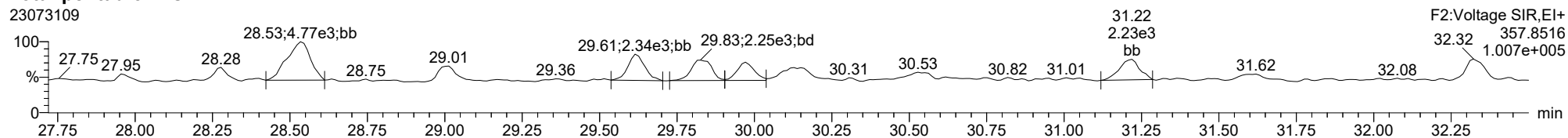
Total-pentadoxins

23073109



Total-pentadoxins

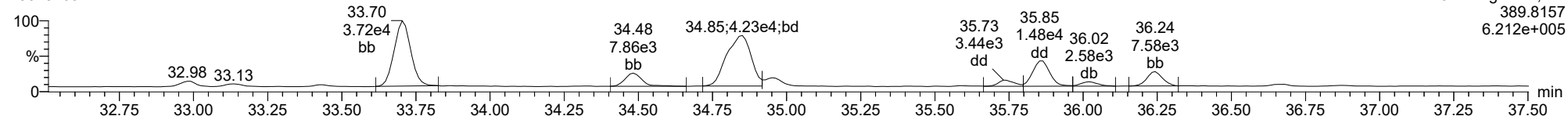
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ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

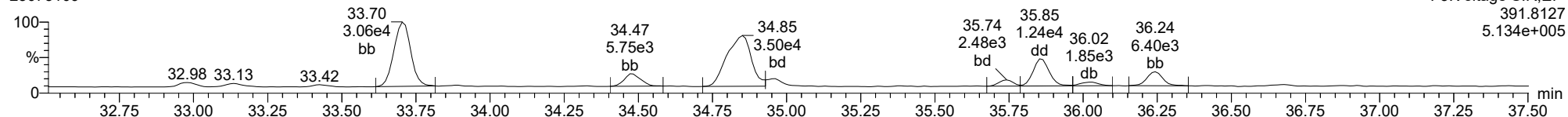
Total-hexadioxins

23073109



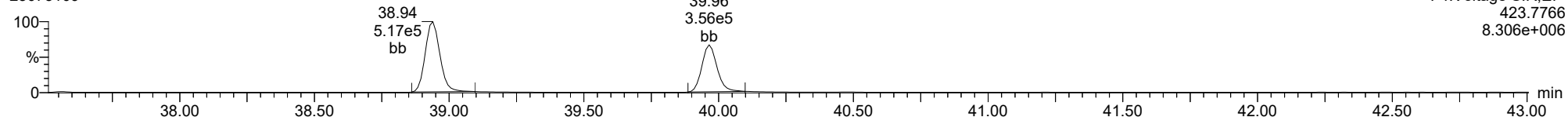
Total-hexadioxins

23073109



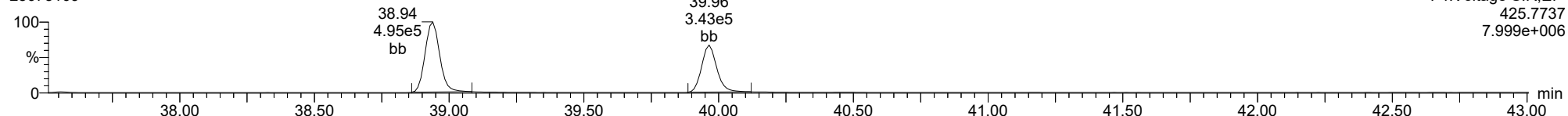
Total-heptadioxins

23073109



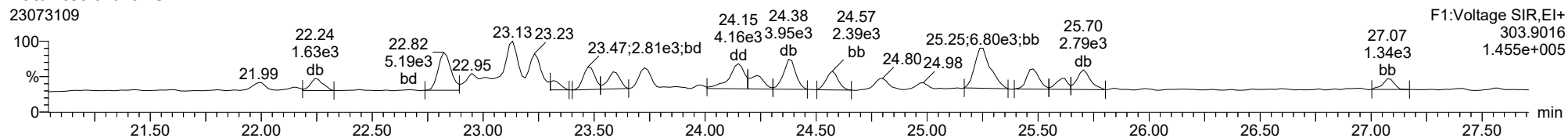
Total-heptadioxins

23073109

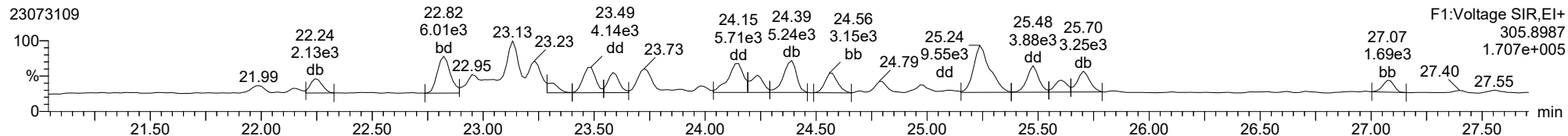


ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

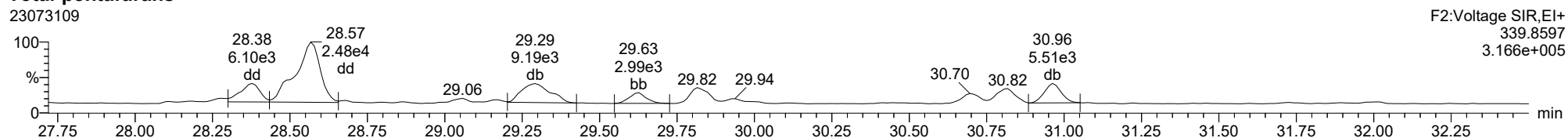
Total-tetrafurans



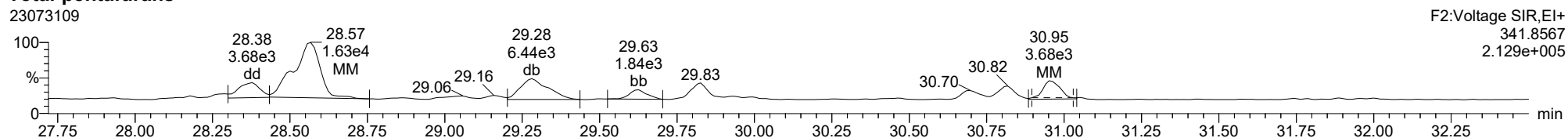
Total-tetrafurans



Total-pentafurans



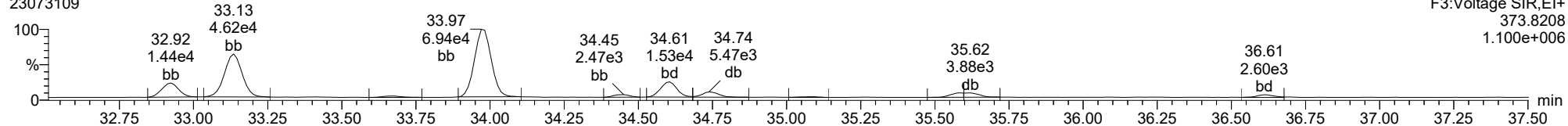
Total-pentafurans



ID: 23F0143-14, Name: 23073109, Date: 31-Jul-2023, Time: 18:41:49, Conditions: AUTOSPEC01, User: pk

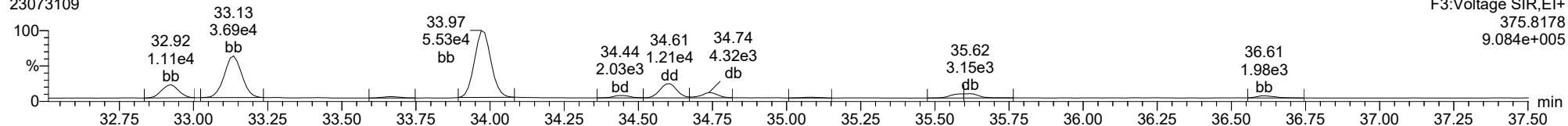
Total-hexafurans

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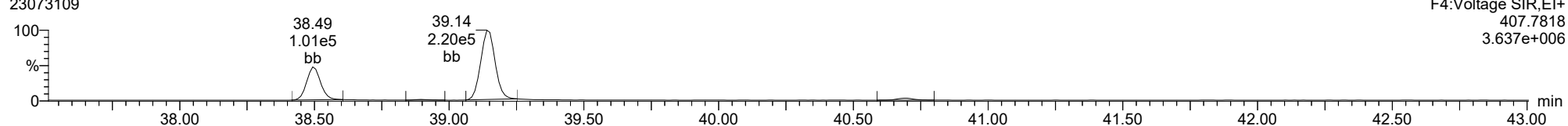
Total-hexafurans

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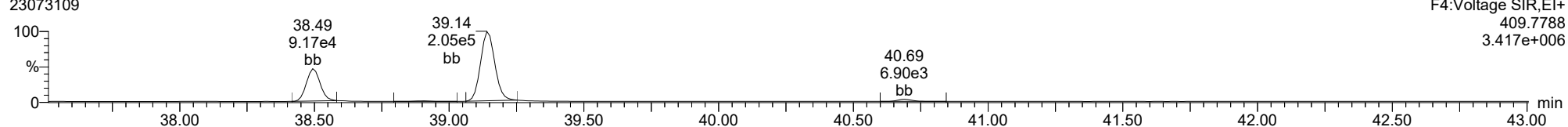
Total-heptafurans

23073109



Total-heptafurans

23073109





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

Laboratory: Analytical Resources, LLC SDG: 23F0143
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23F0143-24 B File ID: 23073110
 Sampled: 01/17/23 14:37 Prepared: 06/14/23 12:00 Analyzed: 07/31/23 19:30
 % Solids: 50.80 Preparation: EPA 1613 Initial/Final: 19.71 g Wet / 20 uL
 Result Basis: Dry Sequence: SLG0303 Calibration: GG00074
 Batch: BLF0318 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	0.731	0.655-0.886	0.077	0.999	0.774	ng/kg	X, J
1746-01-6	2,3,7,8-TCDD	1	0.593	0.655-0.886	0.068	0.999	0.431	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.631	1.318-1.783	0.104	0.999	0.680	ng/kg	J
57117-31-4	2,3,4,7,8-PeCDF	1	1.504	1.318-1.783	0.096	0.999	1.13	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.668	1.318-1.783	0.198	0.999	1.41	ng/kg	
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.296	1.054-1.426	0.075	0.999	3.87	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.395	1.054-1.426	0.076	0.999	1.48	ng/kg	
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.193	1.054-1.426	0.075	0.999	2.00	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.309	1.054-1.426	0.091	0.999	0.955	ng/kg	J
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.407	1.054-1.426	0.189	0.999	1.51	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.182	1.054-1.426	0.184	0.999	5.54	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.128	1.054-1.426	0.200	0.999	3.59	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.058	0.893-1.208	0.126	0.999	38.4	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.100	0.893-1.208	0.188	0.999	2.57	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.011	0.893-1.208	0.329	2.50	159	ng/kg	B
39001-02-0	OCDF	1	0.914	0.757-1.024	0.228	2.50	202	ng/kg	B
3268-87-9	OCDD	1	0.889	0.757-1.024	0.287	9.99	1450	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	14.2	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	2.61	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	15.8	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	5.41	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	46.6	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	44.6	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	153	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	331	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 6.67
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 6.67



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

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>23F0143</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>AOC5 MR Phase 1</u>
Matrix: <u>Sediment</u>	Laboratory ID: <u>23F0143-24</u>
Sampled: <u>01/17/23 14:37</u>	File ID: <u>23073110</u>
Solids Wt%: <u>50.80</u>	Prepared: <u>06/14/23 12:00</u>
Result Basis: <u>Dry</u>	Analyzed: <u>07/31/23 19:30</u>
Batch: <u>BLF0318</u>	Preparation: <u>EPA 1613</u>
	Initial/Final: <u>19.71 g / 20 uL</u>
	Sequence: <u>SLG0303</u>
	Calibration: <u>GG00074</u>
	Instrument: <u>AUTOSPEC01</u>
	Column: <u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.782	0.655-0.886	0.076	68.7	24 - 169 %	
13C12-2,3,7,8-TCDD		0.801	0.655-0.886	0.084	83.5	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.546	1.318-1.783	0.096	76.6	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.562	1.318-1.783	0.103	79.4	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.627	1.318-1.783	0.097	80.9	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.517	0.434-0.587	0.100	64.9	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.511	0.434-0.587	0.084	58.2	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.520	0.434-0.587	0.101	64.8	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.509	0.434-0.587	0.117	65.7	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.261	1.054-1.426	0.140	73.1	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.240	1.054-1.426	0.120	66.0	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.448	0.374-0.506	0.119	62.5	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.444	0.374-0.506	0.156	64.0	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.094	0.893-1.208	0.152	81.0	23 - 140 %	
13C12-OCDD		0.905	0.757-1.024	0.197	90.7	17 - 157 %	
37C14-2,3,7,8-TCDD		328.000		0.044	86.9	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:21:35 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, 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	25.478	1.001	2.243e3	3.068e3	0.951	0.731	0.770	1484	1204	3.60e4	4.97e4	24.3	41.2	NO	bd	bd	0.387
12378-PeCDF	29.626	1.001	2.476e3	1.518e3	0.963	1.631	1.550	1291	1823	3.57e4	1.94e4	27.7	10.7	NO	bd	bb	0.340
23478-PeCDF	30.963	1.001	4.300e3	2.858e3	1.072	1.504	1.550	1291	1823	6.70e4	4.08e4	51.9	22.4	NO	db	db	0.564
123478-HxCDF	34.595	1.001	1.066e4	8.223e3	1.142	1.296	1.240	1062	856	1.61e5	1.26e5	151.9	147.4	NO	dd	bd	1.937
234678-HxCDF	35.586	1.000	5.258e3	4.406e3	1.138	1.193	1.240	1062	856	5.52e4	4.71e4	52.0	55.0	NO	bb	bb	1.001
123678-HxCDF	34.729	1.001	4.379e3	3.140e3	1.100	1.395	1.240	1062	856	6.43e4	4.89e4	60.5	57.1	NO	db	db	0.743
123789-HxCDF	36.600	0.999	2.143e3	1.638e3	1.066	1.309	1.240	1062	856	2.89e4	2.14e4	27.2	25.0	NO	bb	bb	0.478
1234678-HpCDF	38.484	1.000	9.291e4	8.781e4	1.210	1.058	1.050	1792	1645	1.55e6	1.50e6	866.1	911.1	NO	bb	bb	19.204
1234789-HpCDF	40.689	1.001	4.981e3	4.529e3	1.213	1.100	1.050	1792	1645	7.40e4	6.89e4	41.3	41.9	NO	bb	bb	1.288
OCDF	44.828	1.006	3.981e5	4.357e5	1.391	0.914	0.890	1639	2452	4.67e6	5.14e6	2850.5	2094.6	NO	bd	bd	101.197
2378-TCDD	26.099	1.001	9.691e2	1.635e3	1.197	0.593	0.770	929	1207	1.26e4	2.57e4	13.5	21.3	YES	bd	dd	0.216
12378-PeCDD	31.208	1.001	3.390e3	2.032e3	1.129	1.668	1.550	2100	1836	4.55e4	2.84e4	21.7	15.5	NO	bb	bb	0.705
123478-HxCDD	35.720	1.000	3.332e3	2.368e3	0.917	1.407	1.240	1618	2339	5.49e4	4.05e4	33.9	17.3	NO	bd	bd	0.754
123678-HxCDD	35.832	1.000	1.233e4	1.043e4	0.944	1.182	1.240	1618	2339	1.91e5	1.66e5	118.3	70.8	NO	dd	dd	2.774
123789-HxCDD	36.222	1.011	7.017e3	6.219e3	0.869	1.128	1.240	1618	2339	1.15e5	9.87e4	71.0	42.2	NO	db	bb	1.798
1234678-HpCDD	39.954	1.000	3.016e5	2.982e5	1.237	1.011	1.050	2781	3774	4.71e6	4.49e6	1692.8	1189.8	NO	bb	bb	79.449
OCDD	44.599	1.000	2.458e6	2.765e6	1.212	0.889	0.890	2210	2271	3.08e7	3.43e7	13919.7	15121.8	NO	bb	bb	727.014
13C-2378-TCDF	25.449	1.007	6.325e5	8.088e5	1.920	0.782	0.770	2504	1755	9.65e6	1.25e7	3854.2	7111.4	NO	bb	bb	68.677
13C-12378-PeCDF	29.604	1.171	7.399e5	4.787e5	1.455	1.546	1.550	1691	2398	1.13e7	7.25e6	6691.8	3022.0	NO	bb	bb	76.591
13C-23478-PeCDF	30.941	1.224	7.215e5	4.620e5	1.363	1.562	1.550	1691	2398	1.10e7	7.02e6	6513.9	2926.9	NO	bb	bb	79.435
13C-123478-HxCDF	34.573	0.955	2.911e5	5.627e5	1.119	0.517	0.510	1660	1752	4.57e6	8.83e6	2751.2	5041.6	NO	bd	bd	64.872
13C-123678-HxCDF	34.707	0.958	3.112e5	6.088e5	1.343	0.511	0.510	1660	1752	4.66e6	9.19e6	2807.5	5244.7	NO	db	db	58.233
13C-234678-HxCDF	35.586	0.983	2.903e5	5.583e5	1.113	0.520	0.510	1660	1752	4.62e6	9.05e6	2785.2	5164.8	NO	bb	bb	64.837
13C-123789-HxCDF	36.623	1.011	2.501e5	4.911e5	0.959	0.509	0.510	1660	1752	3.98e6	7.66e6	2398.5	4373.2	NO	bb	bb	65.730
13C-1234678-HpCDF	38.472	1.062	2.407e5	5.372e5	1.058	0.448	0.440	1535	2299	4.19e6	9.28e6	2726.5	4037.7	NO	bb	bb	62.474
13C-1234789-HpCDF	40.667	1.123	1.873e5	4.215e5	0.809	0.444	0.440	1535	2299	2.78e6	6.21e6	1814.0	2698.7	NO	bb	bb	64.005
13C-1234-TCDD	25.280	0.000	4.847e5	6.086e5	1.000	0.796	0.770	1689	1011	7.74e6	9.65e6	4583.9	9543.2	NO	bb	bb	100.000
13C-2378-TCDD	26.085	1.032	4.481e5	5.595e5	1.104	0.801	0.770	1689	1011	7.03e6	8.88e6	4160.4	8782.7	NO	bb	bb	83.465
13C-12378-PeCDD	31.186	1.234	4.218e5	2.593e5	0.770	1.627	1.550	802	1383	6.54e6	3.97e6	8154.1	2868.4	NO	bb	bb	80.892
13C-123478-HxCDD	35.709	0.986	4.600e5	3.648e5	0.959	1.261	1.240	2875	1210	7.62e6	5.97e6	2652.0	4936.6	NO	bd	bd	73.093
13C-123678-HxCDD	35.820	0.989	4.810e5	3.880e5	1.120	1.240	1.240	2875	1210	7.54e6	6.20e6	2622.9	5122.5	NO	db	db	65.951
13C-1234678-HpCDD	39.943	1.103	3.190e5	2.915e5	0.640	1.094	1.050	1665	1287	5.04e6	4.62e6	3026.5	3591.9	NO	bb	bb	81.033
13C-OCDD	44.581	1.231	5.630e5	6.221e5	0.555	0.905	0.890	2048	1280	7.35e6	8.15e6	3586.1	6367.4	NO	bb	bb	181.403
13C-123789-HxCDD	36.210	0.000	6.545e5	5.219e5	1.000	1.254	1.240	2875	1210	1.01e7	8.16e6	3523.5	6745.7	NO	bd	bb	100.000
37CL-2378-TCDD	26.114	1.033	4.293e5		1.129			1441		6.46e6		4484.0			bb		34.772

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.989	0.864	1.035e3	1.229e3	1.201	0.843	0.770	1484	1204	1.69e4	2.02e4	11.4	16.8	NO	bd	bb	0.131
1289-TCDF					0.950		0.770	1484	1204								
13468-PECDF	26.890	0.908	2.414e4	1.667e4	1.142	1.448	1.550	839	953	3.57e5	2.37e5	424.8	248.4	NO	bb	bb	2.931
12389-PECDF					0.917		1.550	1291	1823								
123468-HXCDF	32.913	0.952	1.029e4	8.844e3	1.332	1.163	1.240	1062	856	1.55e5	1.39e5	146.3	162.0	NO	bb	bb	1.683
1368-TCDD	23.246	0.891	2.702e3	3.422e3	1.148	0.790	0.770	929	1207	4.32e4	5.43e4	46.5	45.0	NO	bb	bb	0.529
1289-TCDD					0.955		0.770	929	1207								
12479-PECDD	28.534	0.915	6.750e3	4.489e3	2.043	1.504	1.550	2100	1836	6.99e4	4.63e4	33.3	25.2	NO	bb	bb	0.808
12389-PECDD					1.326		1.550	2100	1836								
124679-HXCDD	33.693	0.944	3.046e4	2.459e4	1.104	1.239	1.240	1618	2339	4.71e5	3.78e5	291.0	161.6	NO	bb	bb	6.049
1234679-HPCDD	38.929	0.975	4.219e5	3.964e5	1.554	1.064	1.050	2781	3774	6.80e6	6.55e6	2445.6	1735.1	NO	bb	bb	86.249
Total-tetrafurans			4.646e4		1.034			1484		6.59e5							7.123
Total-penta1			2.414e4					839		3.57e5							2.931
Total-pentafurans			3.641e4		0.984			1291		4.81e5							5.001
Total-hexafurans			1.273e5		1.155			1062		1.92e6							23.338
Total-heptafurans			3.422e5		1.211			1792		5.60e6							76.689
Total-Furans			9.746e5		1.119			1484		1.37e7							216.280
Total-tetradoxins			6.541e3		1.100			929		9.87e4							1.306
Total-pentadoxins			1.767e4		1.499			2100		2.28e5							2.711
Total-hexadoxins			1.024e5		0.958			1618		1.42e6							22.349
Total-heptadoxins			7.235e5		1.396			2781		1.15e7							165.698
Total-Dioxins			3.308e6		1.203			929		4.40e7							919.078
Total-TEQ			4.282e6					929		5.77e7							1135.358
FUNCTION1 PFK			3.646e7					314486		1.77e8							
FUNCTION2 PFK			5.283e5					204595		2.00e0							0.000
FUNCTION3 PFK			6.772e5					224377		4.22e6							0.000
FUNCTION4 PFK			0.000e0					188874		0.00e0							
FUNCTION5 PFK			7.652e3					139201		3.80e5							
FUNCTION1 HXCD...			2.557e3					636		4.57e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			2.878e2					667		3.97e3							0.000
FUNCTION3 OCDPE			9.477e1					628		1.62e3							0.000
FUNCTION4 NCDPE			1.259e4					691		2.18e5							0.000
FUNCTION5 DCDPE			7.131e1					676		2.05e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, 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	23.47	2.677e3	3.672e3	1.034	0.73	0.77	30.0	YES	NO	bd	dd	0.426
2	Total-tetrafurans	23.32	7.901e2	9.173e2	1.034	0.86	0.77	10.0	YES	NO	db	dd	0.115
3	Total-tetrafurans	23.23	3.305e3	4.337e3	1.034	0.76	0.77	34.0	YES	NO	dd	dd	0.513
4	Total-tetrafurans	23.13	5.152e3	5.859e3	1.034	0.88	0.77	47.6	YES	NO	dd	dd	0.739
5	Total-tetrafurans	22.95	1.414e3	1.687e3	1.034	0.84	0.77	18.2	YES	NO	dd	dd	0.208
6	Total-tetrafurans	22.82	4.538e3	5.817e3	1.034	0.78	0.77	41.1	YES	NO	bd	bd	0.695
7	Total-tetrafurans	22.24	1.264e3	1.453e3	1.034	0.87	0.77	12.6	YES	NO	db	db	0.182
8	Total-tetrafurans	22.14	2.990e2	3.896e2	1.034	0.77	0.77	3.0	YES	NO	dd	bd	0.046
9	1368-TCDF	21.99	1.035e3	1.229e3	1.201	0.84	0.77	11.4	YES	NO	bd	bb	0.131
10	Total-tetrafurans	25.70	2.283e3	3.231e3	1.034	0.71	0.77	21.6	YES	NO	dd	dd	0.370
11	Total-tetrafurans	25.59	1.257e3	1.828e3	1.034	0.69	0.77	12.0	YES	NO	dd	dd	0.207
12	2378-TCDF	25.48	2.243e3	3.068e3	0.951	0.73	0.77	24.3	YES	NO	bd	bd	0.387
13	Total-tetrafurans	25.24	4.422e3	5.897e3	1.034	0.75	0.77	31.7	YES	NO	db	db	0.692
14	Total-tetrafurans	24.98	7.699e2	1.053e3	1.034	0.73	0.77	7.4	YES	NO	bb	bd	0.122
15	Total-tetrafurans	24.80	1.315e3	1.905e3	1.034	0.69	0.77	14.7	YES	NO	bb	bb	0.216
16	Total-tetrafurans	24.56	2.193e3	2.479e3	1.034	0.88	0.77	21.4	YES	NO	db	db	0.313
17	Total-tetrafurans	24.38	3.303e3	4.390e3	1.034	0.75	0.77	31.2	YES	NO	dd	dd	0.516
18	Total-tetrafurans	24.15	3.869e3	4.716e3	1.034	0.82	0.77	28.5	YES	NO	dd	dd	0.576
19	Total-tetrafurans	23.73	3.198e3	4.291e3	1.034	0.75	0.77	31.0	YES	NO	dd	dd	0.502
20	Total-tetrafurans	27.07	1.138e3	1.349e3	1.034	0.84	0.77	12.6	YES	NO	bb	bb	0.167

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.89	2.414e4	1.667e4	1.142	1.45	1.55	424.8	YES	NO	bb	bb	2.931

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.82	3.721e3	2.165e3	0.984	1.72	1.55	44.5	YES	NO	dd	bd	0.498
2	12378-PeCDF	29.63	2.476e3	1.518e3	0.963	1.63	1.55	27.7	YES	NO	bd	bb	0.340
3	23478-PeCDF	30.96	4.300e3	2.858e3	1.072	1.50	1.55	51.9	YES	NO	db	db	0.564
4	Total-pentafurans	30.81	2.742e3	2.068e3	0.984	1.33	1.55	40.6	YES	NO	dd	dd	0.407
5	Total-pentafurans	30.70	2.811e3	1.911e3	0.984	1.47	1.55	29.0	YES	NO	bd	bd	0.400
6	Total-pentafurans	29.90	6.245e2	3.787e2	0.984	1.65	1.55	13.5	YES	NO	dd	db	0.085
7	Total-pentafurans	28.56	1.973e4	1.225e4	0.984	1.61	1.55	165.4	YES	NO	MM	db	2.707

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.60	1.066e4	8.223e3	1.142	1.30	1.24	151.9	YES	NO	dd	bd	1.937
2	Total-hexafurans	34.43	2.106e3	1.645e3	1.155	1.28	1.24	31.7	YES	NO	bd	bb	0.386
3	Total-hexafurans	33.97	5.448e4	4.401e4	1.155	1.24	1.24	797.4	YES	NO	bb	bb	10.137
4	Total-hexafurans	33.66	1.217e3	1.031e3	1.155	1.18	1.24	14.7	YES	NO	bb	bb	0.231
5	Total-hexafurans	33.12	3.635e4	2.849e4	1.155	1.28	1.24	517.7	YES	NO	bb	bb	6.674
6	123468-HxCDF	32.91	1.029e4	8.844e3	1.332	1.16	1.24	146.3	YES	NO	bb	bb	1.683
7	123789-HxCDF	36.60	2.143e3	1.638e3	1.066	1.31	1.24	27.2	YES	NO	bb	bb	0.478
8	234678-HxCDF	35.59	5.258e3	4.406e3	1.138	1.19	1.24	52.0	YES	NO	bb	bb	1.001
9	Total-hexafurans	35.06	3.847e2	2.707e2	1.155	1.42	1.24	6.9	YES	NO	bb	bb	0.067
10	123678-HxCDF	34.73	4.379e3	3.140e3	1.100	1.39	1.24	60.5	YES	NO	db	db	0.743

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.69	4.981e3	4.529e3	1.213	1.10	1.05	41.3	YES	NO	bb	bb	1.288
2	Total-heptafurans	39.13	2.443e5	2.276e5	1.211	1.07	1.05	2218.4	YES	NO	bb	bb	56.197
3	1234678-HpCDF	38.48	9.291e4	8.781e4	1.210	1.06	1.05	866.1	YES	NO	bb	bb	19.204

Quantify Totals Report MassLynx V4.1 SCN909

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.47	2.677e3	3.672e3	1.034	0.73	0.77	30.0	YES	NO	bd	dd	0.426
2	Total-tetrafurans	23.32	7.901e2	9.173e2	1.034	0.86	0.77	10.0	YES	NO	db	dd	0.115
3	Total-tetrafurans	23.23	3.305e3	4.337e3	1.034	0.76	0.77	34.0	YES	NO	dd	dd	0.513
4	Total-tetrafurans	23.13	5.152e3	5.859e3	1.034	0.88	0.77	47.6	YES	NO	dd	dd	0.739
5	Total-tetrafurans	22.95	1.414e3	1.687e3	1.034	0.84	0.77	18.2	YES	NO	dd	dd	0.208
6	Total-tetrafurans	22.82	4.538e3	5.817e3	1.034	0.78	0.77	41.1	YES	NO	bd	bd	0.695
7	Total-tetrafurans	22.24	1.264e3	1.453e3	1.034	0.87	0.77	12.6	YES	NO	db	db	0.182
8	Total-tetrafurans	22.14	2.990e2	3.896e2	1.034	0.77	0.77	3.0	YES	NO	dd	bd	0.046
9	1368-TCDF	21.99	1.035e3	1.229e3	1.201	0.84	0.77	11.4	YES	NO	bd	bb	0.131
10	Total-tetrafurans	25.70	2.283e3	3.231e3	1.034	0.71	0.77	21.6	YES	NO	dd	dd	0.370
11	Total-tetrafurans	25.59	1.257e3	1.828e3	1.034	0.69	0.77	12.0	YES	NO	dd	dd	0.207
12	2378-TCDF	25.48	2.243e3	3.068e3	0.951	0.73	0.77	24.3	YES	NO	bd	bd	0.387
13	Total-tetrafurans	25.24	4.422e3	5.897e3	1.034	0.75	0.77	31.7	YES	NO	db	db	0.692
14	Total-tetrafurans	24.98	7.699e2	1.053e3	1.034	0.73	0.77	7.4	YES	NO	bb	bd	0.122
15	Total-tetrafurans	24.80	1.315e3	1.905e3	1.034	0.69	0.77	14.7	YES	NO	bb	bb	0.216
16	Total-tetrafurans	24.56	2.193e3	2.479e3	1.034	0.88	0.77	21.4	YES	NO	db	db	0.313
17	Total-tetrafurans	24.38	3.303e3	4.390e3	1.034	0.75	0.77	31.2	YES	NO	dd	dd	0.516
18	Total-tetrafurans	24.15	3.869e3	4.716e3	1.034	0.82	0.77	28.5	YES	NO	dd	dd	0.576
19	Total-tetrafurans	23.73	3.198e3	4.291e3	1.034	0.75	0.77	31.0	YES	NO	dd	dd	0.502
20	Total-tetrafurans	27.07	1.138e3	1.349e3	1.034	0.84	0.77	12.6	YES	NO	bb	bb	0.167
21	Total-pentafurans	29.82	3.721e3	2.165e3	0.984	1.72	1.55	44.5	YES	NO	dd	bd	0.498
22	12378-PeCDF	29.63	2.476e3	1.518e3	0.963	1.63	1.55	27.7	YES	NO	bd	bb	0.340
23	23478-PeCDF	30.96	4.300e3	2.858e3	1.072	1.50	1.55	51.9	YES	NO	db	db	0.564
24	Total-pentafurans	30.81	2.742e3	2.068e3	0.984	1.33	1.55	40.6	YES	NO	dd	dd	0.407
25	Total-pentafurans	30.70	2.811e3	1.911e3	0.984	1.47	1.55	29.0	YES	NO	bd	bd	0.400
26	Total-pentafurans	29.90	6.245e2	3.787e2	0.984	1.65	1.55	13.5	YES	NO	dd	db	0.085
27	123478-HxCDF	34.60	1.066e4	8.223e3	1.142	1.30	1.24	151.9	YES	NO	dd	bd	1.937
28	Total-hexafurans	34.43	2.106e3	1.645e3	1.155	1.28	1.24	31.7	YES	NO	bd	bb	0.386
29	Total-hexafurans	33.97	5.448e4	4.401e4	1.155	1.24	1.24	797.4	YES	NO	bb	bb	10.137
30	Total-hexafurans	33.66	1.217e3	1.031e3	1.155	1.18	1.24	14.7	YES	NO	bb	bb	0.231
31	Total-hexafurans	33.12	3.635e4	2.849e4	1.155	1.28	1.24	517.7	YES	NO	bb	bb	6.674
32	123468-HXCDF	32.91	1.029e4	8.844e3	1.332	1.16	1.24	146.3	YES	NO	bb	bb	1.683
33	123789-HxCDF	36.60	2.143e3	1.638e3	1.066	1.31	1.24	27.2	YES	NO	bb	bb	0.478
34	234678-HxCDF	35.59	5.258e3	4.406e3	1.138	1.19	1.24	52.0	YES	NO	bb	bb	1.001
35	Total-hexafurans	35.06	3.847e2	2.707e2	1.155	1.42	1.24	6.9	YES	NO	bb	bb	0.067
36	123678-HxCDF	34.73	4.379e3	3.140e3	1.100	1.39	1.24	60.5	YES	NO	db	db	0.743
37	1234789-HpCDF	40.69	4.981e3	4.529e3	1.213	1.10	1.05	41.3	YES	NO	bb	bb	1.288

ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-heptafurans	39.13	2.443e5	2.276e5	1.211	1.07	1.05	2218.4	YES	NO	bb	bb	56.197
39	1234678-HpCDF	38.48	9.291e4	8.781e4	1.210	1.06	1.05	866.1	YES	NO	bb	bb	19.204
40	OCDF	44.83	3.981e5	4.357e5	1.391	0.91	0.89	2850.5	YES	NO	bd	bd	101.197
41	13468-PECDF	26.89	2.414e4	1.667e4	1.142	1.45	1.55	424.8	YES	NO	bb	bb	2.931
42	Total-pentafurans	28.56	1.973e4	1.225e4	0.984	1.61	1.55	165.4	YES	NO	MM	db	2.707

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	23.51	1.757e3	2.297e3	1.100	0.76	0.77	26.2	YES	NO	bb	bb	0.366
2	1368-TCDD	23.25	2.702e3	3.422e3	1.148	0.79	0.77	46.5	YES	NO	bb	bb	0.529
3	Total-tetradoxins	26.23	5.105e2	5.855e2	1.100	0.87	0.77	9.2	YES	NO	db	db	0.099
4	Total-tetradoxins	25.73	1.071e3	1.237e3	1.100	0.87	0.77	15.0	YES	NO	bb	bb	0.208
5	Total-tetradoxins	25.31	5.013e2	6.492e2	1.100	0.77	0.77	9.4	YES	NO	bb	bb	0.104

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.21	3.390e3	2.032e3	1.129	1.67	1.55	21.7	YES	NO	bb	bb	0.705
2	Total-pentadoxins	29.96	2.640e3	1.522e3	1.499	1.73	1.55	18.8	YES	NO	dd	dd	0.408
3	Total-pentadoxins	29.83	3.170e3	1.882e3	1.499	1.68	1.55	22.8	YES	NO	dd	bd	0.495
4	Total-pentadoxins	29.00	1.720e3	1.302e3	1.499	1.32	1.55	12.2	YES	NO	bb	bb	0.296
5	12479-PECDD	28.53	6.750e3	4.489e3	2.043	1.50	1.55	33.3	YES	NO	bb	bb	0.808

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	33.69	3.046e4	2.459e4	1.104	1.24	1.24	291.0	YES	NO	bb	bb	6.049
2	123789-HxCDD	36.22	7.017e3	6.219e3	0.869	1.13	1.24	71.0	YES	NO	db	bb	1.798
3	Total-hexadoxins	36.00	2.082e3	1.812e3	0.958	1.15	1.24	21.2	YES	NO	dd	db	0.480
4	123678-HxCDD	35.83	1.233e4	1.043e4	0.944	1.18	1.24	118.3	YES	NO	dd	dd	2.774
5	123478-HxCDD	35.72	3.332e3	2.368e3	0.917	1.41	1.24	33.9	YES	NO	bd	bd	0.754
6	Total-hexadoxins	34.94	3.090e3	2.603e3	0.958	1.19	1.24	34.8	YES	NO	db	db	0.701
7	Total-hexadoxins	34.83	3.647e4	2.971e4	0.958	1.23	1.24	239.6	YES	NO	bd	bd	8.153
8	Total-hexadoxins	34.47	7.608e3	5.701e3	0.958	1.33	1.24	70.6	YES	NO	bb	bb	1.640

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:21:35 Pacific Daylight Time

ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.95	3.016e5	2.982e5	1.237	1.01	1.05	1692.8	YES	NO	bb	bb	79.449
2	1234679-HPCDD	38.93	4.219e5	3.964e5	1.554	1.06	1.05	2445.6	YES	NO	bb	bb	86.249

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	23.51	1.757e3	2.297e3	1.100	0.76	0.77	26.2	YES	NO	bb	bb	0.366
2	1368-TCDD	23.25	2.702e3	3.422e3	1.148	0.79	0.77	46.5	YES	NO	bb	bb	0.529
3	Total-tetradoxins	26.23	5.105e2	5.855e2	1.100	0.87	0.77	9.2	YES	NO	db	db	0.099
4	Total-tetradoxins	25.73	1.071e3	1.237e3	1.100	0.87	0.77	15.0	YES	NO	bb	bb	0.208
5	Total-tetradoxins	25.31	5.013e2	6.492e2	1.100	0.77	0.77	9.4	YES	NO	bb	bb	0.104
6	12378-PeCDD	31.21	3.390e3	2.032e3	1.129	1.67	1.55	21.7	YES	NO	bb	bb	0.705
7	Total-pentadoxins	29.96	2.640e3	1.522e3	1.499	1.73	1.55	18.8	YES	NO	dd	dd	0.408
8	Total-pentadoxins	29.83	3.170e3	1.882e3	1.499	1.68	1.55	22.8	YES	NO	dd	bd	0.495
9	Total-pentadoxins	29.00	1.720e3	1.302e3	1.499	1.32	1.55	12.2	YES	NO	bb	bb	0.296
10	12479-PECDD	28.53	6.750e3	4.489e3	2.043	1.50	1.55	33.3	YES	NO	bb	bb	0.808
11	124679-HXCDD	33.69	3.046e4	2.459e4	1.104	1.24	1.24	291.0	YES	NO	bb	bb	6.049
12	123789-HxCDD	36.22	7.017e3	6.219e3	0.869	1.13	1.24	71.0	YES	NO	db	bb	1.798
13	Total-hexadoxins	36.00	2.082e3	1.812e3	0.958	1.15	1.24	21.2	YES	NO	dd	db	0.480
14	123678-HxCDD	35.83	1.233e4	1.043e4	0.944	1.18	1.24	118.3	YES	NO	dd	dd	2.774
15	123478-HxCDD	35.72	3.332e3	2.368e3	0.917	1.41	1.24	33.9	YES	NO	bd	bd	0.754
16	Total-hexadoxins	34.94	3.090e3	2.603e3	0.958	1.19	1.24	34.8	YES	NO	db	db	0.701
17	Total-hexadoxins	34.83	3.647e4	2.971e4	0.958	1.23	1.24	239.6	YES	NO	bd	bd	8.153
18	Total-hexadoxins	34.47	7.608e3	5.701e3	0.958	1.33	1.24	70.6	YES	NO	bb	bb	1.640
19	1234678-HpCDD	39.95	3.016e5	2.982e5	1.237	1.01	1.05	1692.8	YES	NO	bb	bb	79.449
20	1234679-HPCDD	38.93	4.219e5	3.964e5	1.554	1.06	1.05	2445.6	YES	NO	bb	bb	86.249
21	OCDD	44.60	2.458e6	2.765e6	1.212	0.89	0.89	13919.7	YES	NO	bb	bb	727.014

Quantify Totals Report MassLynx V4.1 SCN909

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 Printed: Tuesday, August 01, 2023 08:21:35 Pacific Daylight Time

ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, 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	23.47	2.677e3	3.672e3	1.034	0.73	0.77	30.0	YES	NO	bd	dd	0.426
2	Total-tetrafurans	23.32	7.901e2	9.173e2	1.034	0.86	0.77	10.0	YES	NO	db	dd	0.115
3	Total-tetrafurans	23.23	3.305e3	4.337e3	1.034	0.76	0.77	34.0	YES	NO	dd	dd	0.513
4	Total-tetrafurans	23.13	5.152e3	5.859e3	1.034	0.88	0.77	47.6	YES	NO	dd	dd	0.739
5	Total-tetrafurans	22.95	1.414e3	1.687e3	1.034	0.84	0.77	18.2	YES	NO	dd	dd	0.208
6	Total-tetrafurans	22.82	4.538e3	5.817e3	1.034	0.78	0.77	41.1	YES	NO	bd	bd	0.695
7	Total-tetrafurans	22.24	1.264e3	1.453e3	1.034	0.87	0.77	12.6	YES	NO	db	db	0.182
8	Total-tetrafurans	22.14	2.990e2	3.896e2	1.034	0.77	0.77	3.0	YES	NO	dd	bd	0.046
9	1368-TCDF	21.99	1.035e3	1.229e3	1.201	0.84	0.77	11.4	YES	NO	bd	bb	0.131
10	Total-tetrafurans	25.70	2.283e3	3.231e3	1.034	0.71	0.77	21.6	YES	NO	dd	dd	0.370
11	Total-tetrafurans	25.59	1.257e3	1.828e3	1.034	0.69	0.77	12.0	YES	NO	dd	dd	0.207
12	2378-TCDF	25.48	2.243e3	3.068e3	0.951	0.73	0.77	24.3	YES	NO	bd	bd	0.387
13	Total-tetrafurans	25.24	4.422e3	5.897e3	1.034	0.75	0.77	31.7	YES	NO	db	db	0.692
14	Total-tetrafurans	24.98	7.699e2	1.053e3	1.034	0.73	0.77	7.4	YES	NO	bb	bd	0.122
15	Total-tetrafurans	24.80	1.315e3	1.905e3	1.034	0.69	0.77	14.7	YES	NO	bb	bb	0.216
16	Total-tetrafurans	24.56	2.193e3	2.479e3	1.034	0.88	0.77	21.4	YES	NO	db	db	0.313
17	Total-tetrafurans	24.38	3.303e3	4.390e3	1.034	0.75	0.77	31.2	YES	NO	dd	dd	0.516
18	Total-tetrafurans	24.15	3.869e3	4.716e3	1.034	0.82	0.77	28.5	YES	NO	dd	dd	0.576
19	Total-tetrafurans	23.73	3.198e3	4.291e3	1.034	0.75	0.77	31.0	YES	NO	dd	dd	0.502
20	Total-tetrafurans	27.07	1.138e3	1.349e3	1.034	0.84	0.77	12.6	YES	NO	bb	bb	0.167
21	Total-pentafurans	29.82	3.721e3	2.165e3	0.984	1.72	1.55	44.5	YES	NO	dd	bd	0.498
22	12378-PeCDF	29.63	2.476e3	1.518e3	0.963	1.63	1.55	27.7	YES	NO	bd	bb	0.340
23	23478-PeCDF	30.96	4.300e3	2.858e3	1.072	1.50	1.55	51.9	YES	NO	db	db	0.564
24	Total-pentafurans	30.81	2.742e3	2.068e3	0.984	1.33	1.55	40.6	YES	NO	dd	dd	0.407
25	Total-pentafurans	30.70	2.811e3	1.911e3	0.984	1.47	1.55	29.0	YES	NO	bd	bd	0.400
26	Total-pentafurans	29.90	6.245e2	3.787e2	0.984	1.65	1.55	13.5	YES	NO	dd	db	0.085
27	123478-HxCDF	34.60	1.066e4	8.223e3	1.142	1.30	1.24	151.9	YES	NO	dd	bd	1.937
28	Total-hexafurans	34.43	2.106e3	1.645e3	1.155	1.28	1.24	31.7	YES	NO	bd	bb	0.386
29	Total-hexafurans	33.97	5.448e4	4.401e4	1.155	1.24	1.24	797.4	YES	NO	bb	bb	10.137
30	Total-hexafurans	33.66	1.217e3	1.031e3	1.155	1.18	1.24	14.7	YES	NO	bb	bb	0.231
31	Total-hexafurans	33.12	3.635e4	2.849e4	1.155	1.28	1.24	517.7	YES	NO	bb	bb	6.674
32	123468-HXCDF	32.91	1.029e4	8.844e3	1.332	1.16	1.24	146.3	YES	NO	bb	bb	1.683
33	123789-HxCDF	36.60	2.143e3	1.638e3	1.066	1.31	1.24	27.2	YES	NO	bb	bb	0.478
34	234678-HxCDF	35.59	5.258e3	4.406e3	1.138	1.19	1.24	52.0	YES	NO	bb	bb	1.001
35	Total-hexafurans	35.06	3.847e2	2.707e2	1.155	1.42	1.24	6.9	YES	NO	bb	bb	0.067
36	123678-HxCDF	34.73	4.379e3	3.140e3	1.100	1.39	1.24	60.5	YES	NO	db	db	0.743
37	1234789-HpCDF	40.69	4.981e3	4.529e3	1.213	1.10	1.05	41.3	YES	NO	bb	bb	1.288

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-heptafurans	39.13	2.443e5	2.276e5	1.211	1.07	1.05	2218.4	YES	NO	bb	bb	56.197
39	1234678-HpCDF	38.48	9.291e4	8.781e4	1.210	1.06	1.05	866.1	YES	NO	bb	bb	19.204
40	OCDF	44.83	3.981e5	4.357e5	1.391	0.91	0.89	2850.5	YES	NO	bd	bd	101.197
41	13468-PECDF	26.89	2.414e4	1.667e4	1.142	1.45	1.55	424.8	YES	NO	bb	bb	2.931
42	Total-pentafurans	28.56	1.973e4	1.225e4	0.984	1.61	1.55	165.4	YES	NO	MM	db	2.707
43	Total-tetradioxins	23.51	1.757e3	2.297e3	1.100	0.76	0.77	26.2	YES	NO	bb	bb	0.366
44	1368-TCDD	23.25	2.702e3	3.422e3	1.148	0.79	0.77	46.5	YES	NO	bb	bb	0.529
45	Total-tetradioxins	26.23	5.105e2	5.855e2	1.100	0.87	0.77	9.2	YES	NO	db	db	0.099
46	Total-tetradioxins	25.73	1.071e3	1.237e3	1.100	0.87	0.77	15.0	YES	NO	bb	bb	0.208
47	Total-tetradioxins	25.31	5.013e2	6.492e2	1.100	0.77	0.77	9.4	YES	NO	bb	bb	0.104
48	12378-PeCDD	31.21	3.390e3	2.032e3	1.129	1.67	1.55	21.7	YES	NO	bb	bb	0.705
49	Total-pentadioxins	29.96	2.640e3	1.522e3	1.499	1.73	1.55	18.8	YES	NO	dd	dd	0.408
50	Total-pentadioxins	29.83	3.170e3	1.882e3	1.499	1.68	1.55	22.8	YES	NO	dd	bd	0.495
51	Total-pentadioxins	29.00	1.720e3	1.302e3	1.499	1.32	1.55	12.2	YES	NO	bb	bb	0.296
52	12479-PECDD	28.53	6.750e3	4.489e3	2.043	1.50	1.55	33.3	YES	NO	bb	bb	0.808
53	124679-HxCDD	33.69	3.046e4	2.459e4	1.104	1.24	1.24	291.0	YES	NO	bb	bb	6.049
54	123789-HxCDD	36.22	7.017e3	6.219e3	0.869	1.13	1.24	71.0	YES	NO	db	bb	1.798
55	Total-hexadioxins	36.00	2.082e3	1.812e3	0.958	1.15	1.24	21.2	YES	NO	dd	db	0.480
56	123678-HxCDD	35.83	1.233e4	1.043e4	0.944	1.18	1.24	118.3	YES	NO	dd	dd	2.774
57	123478-HxCDD	35.72	3.332e3	2.368e3	0.917	1.41	1.24	33.9	YES	NO	bd	bd	0.754
58	Total-hexadioxins	34.94	3.090e3	2.603e3	0.958	1.19	1.24	34.8	YES	NO	db	db	0.701
59	Total-hexadioxins	34.83	3.647e4	2.971e4	0.958	1.23	1.24	239.6	YES	NO	bd	bd	8.153
60	Total-hexadioxins	34.47	7.608e3	5.701e3	0.958	1.33	1.24	70.6	YES	NO	bb	bb	1.640
61	1234678-HpCDD	39.95	3.016e5	2.982e5	1.237	1.01	1.05	1692.8	YES	NO	bb	bb	79.449
62	1234679-HPCDD	38.93	4.219e5	3.964e5	1.554	1.06	1.05	2445.6	YES	NO	bb	bb	86.249
63	OCDD	44.60	2.458e6	2.765e6	1.212	0.89	0.89	13919.7	YES	NO	bb	bb	727.014

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, 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	21.18	2.714e6					88.5	YES		dd		
2	FUNCTION1 PFK	21.14	1.553e6					87.1	YES		bd		
3	FUNCTION1 PFK	26.81	1.092e4					1.1	NO		bd		
4	FUNCTION1 PFK	26.11	1.152e4					1.1	NO		bb		
5	FUNCTION1 PFK	25.86	6.008e3					0.9	NO		bb		
6	FUNCTION1 PFK	25.70	3.023e4					2.3	NO		bb		
7	FUNCTION1 PFK	25.42	1.796e4					1.7	NO		bb		
8	FUNCTION1 PFK	23.85	2.413e3					0.5	NO		bb		
9	FUNCTION1 PFK	23.77	2.351e4					1.6	NO		bb		
10	FUNCTION1 PFK	23.47	2.036e5					3.7	YES		db		
11	FUNCTION1 PFK	23.30	3.616e5					9.5	YES		dd		
12	FUNCTION1 PFK	23.08	8.002e5					20.5	YES		dd		
13	FUNCTION1 PFK	22.68	3.477e6					35.5	YES		dd		
14	FUNCTION1 PFK	22.57	4.454e6					39.6	YES		dd		
15	FUNCTION1 PFK	22.21	3.615e6					52.4	YES		dd		
16	FUNCTION1 PFK	22.02	6.004e6					59.8	YES		dd		
17	FUNCTION1 PFK	21.72	2.749e6					70.0	YES		dd		
18	FUNCTION1 PFK	21.34	1.036e7					85.7	YES		dd		
19	FUNCTION1 PFK	26.85	6.875e4					1.5	NO		db		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.47	5.283e5					0.0	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	36.75	2.805e5					7.1	YES		db		0.000
2	FUNCTION3 PFK	36.61	1.068e5					8.4	YES		bd		0.000
3	FUNCTION3 PFK	36.32	2.867e5					2.1	NO		bb		0.000
4	FUNCTION3 PFK	32.62	3.176e3					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													

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

Printed: Tuesday, August 01, 2023 08:21:35 Pacific Daylight Time

ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.13	6.145e3					1.5	NO		bb		
2	FUNCTION5 PFK	44.98	6.883e2					0.5	NO		bb		
3	FUNCTION5 PFK	44.05	8.185e2					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...	21.85	1.386e2					4.4	YES		bd		0.000
2	FUNCTION1 HXCD...	21.62	7.625e1					2.6	NO		bb		0.000
3	FUNCTION1 HXCD...	26.45	1.439e2					3.9	YES		bb		0.000
4	FUNCTION1 HXCD...	25.83	1.390e2					2.8	NO		bb		0.000
5	FUNCTION1 HXCD...	25.60	8.023e2					22.7	YES		db		0.000
6	FUNCTION1 HXCD...	25.46	1.836e2					4.5	YES		bd		0.000
7	FUNCTION1 HXCD...	25.28	1.108e2					3.3	YES		bb		0.000
8	FUNCTION1 HXCD...	24.53	7.044e1					2.2	NO		bb		0.000
9	FUNCTION1 HXCD...	23.60	7.891e1					2.5	NO		db		0.000
10	FUNCTION1 HXCD...	23.47	1.568e2					4.0	YES		bd		0.000
11	FUNCTION1 HXCD...	22.48	1.312e2					4.8	YES		db		0.000
12	FUNCTION1 HXCD...	22.34	1.002e2					2.1	NO		bd		0.000
13	FUNCTION1 HXCD...	22.14	7.331e1					2.4	NO		db		0.000
14	FUNCTION1 HXCD...	22.05	1.586e2					3.0	YES		dd		0.000
15	FUNCTION1 HXCD...	21.95	7.212e1					2.4	NO		dd		0.000
16	FUNCTION1 HXCD...	21.88	1.207e2					4.3	YES		dd		0.000

ETHERS2

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

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.28	1.911e2					3.5	YES		bb		0.000
2	FUNCTION2 HPCD...	32.43	9.673e1					2.5	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.72	9.477e1					2.6	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.23	1.548e2					5.0	YES		db		0.000
2	FUNCTION4 NCDPE	38.13	1.243e4					310.2	YES		bd		0.000

ETHERS6

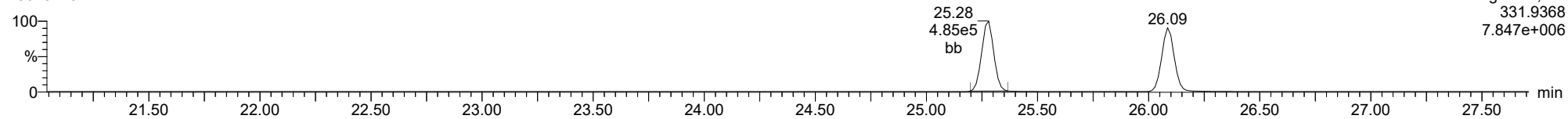
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.49	7.131e1					3.0	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

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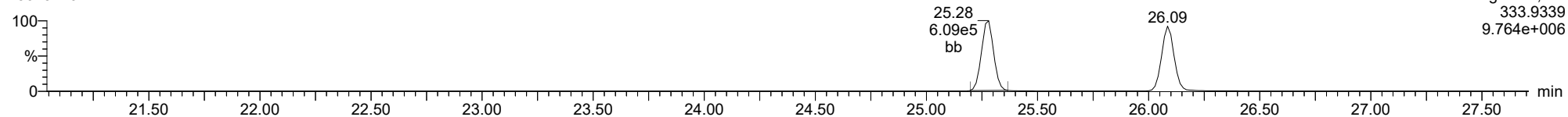
13C-1234-TCDD

23073110



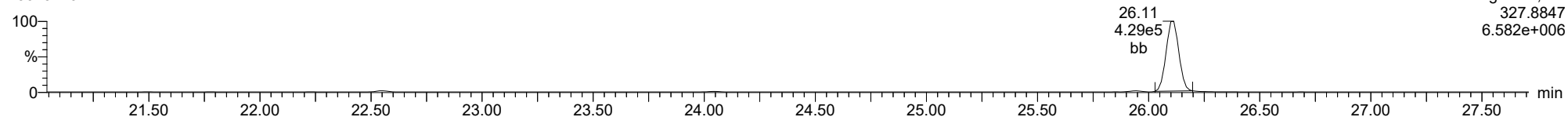
13C-1234-TCDD

23073110



37CL-2378-TCDD

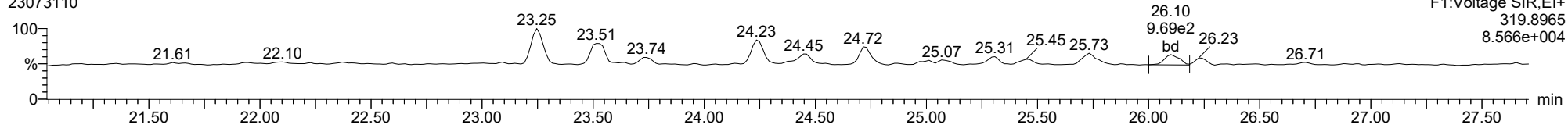
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

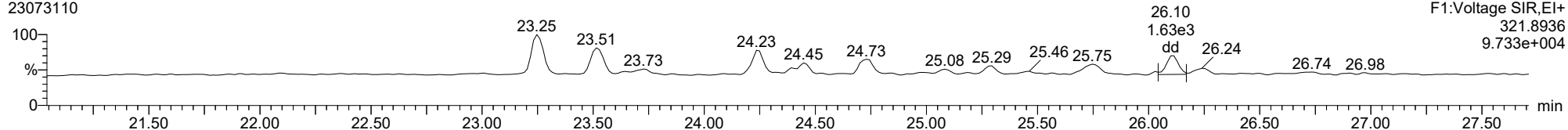
2378-TCDD

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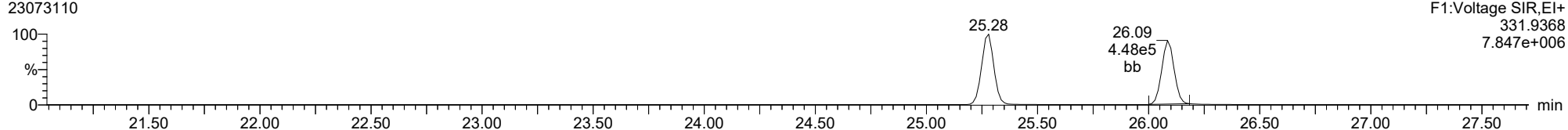
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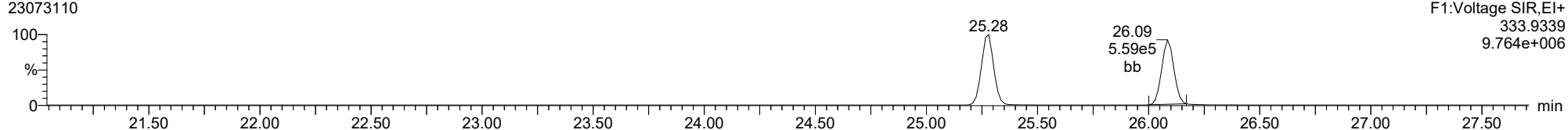
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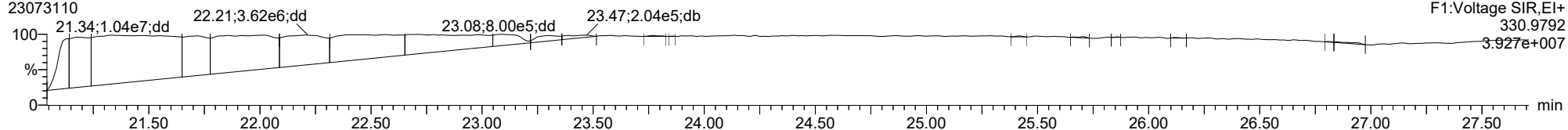
13C-2378-TCDD

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FUNCTION1 PFK

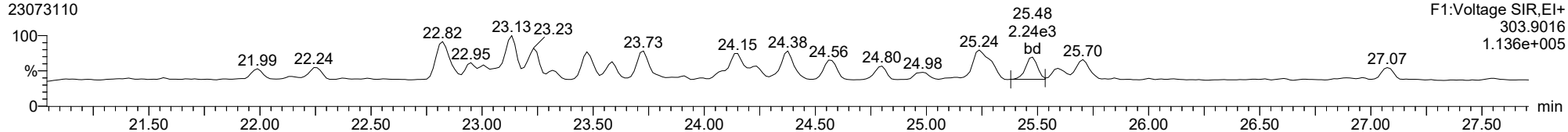
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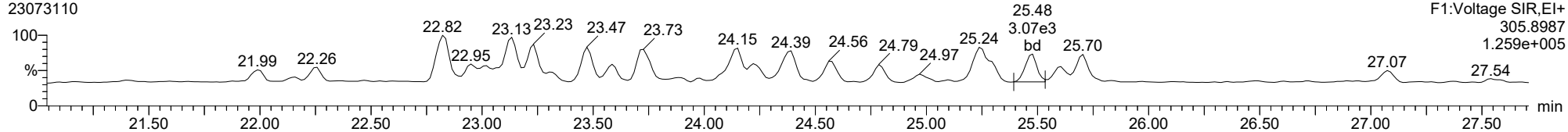
2378-TCDF

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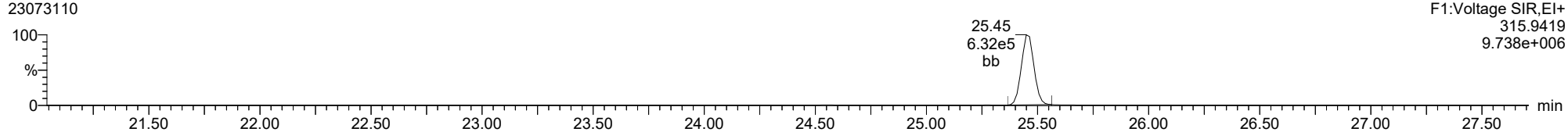
2378-TCDF

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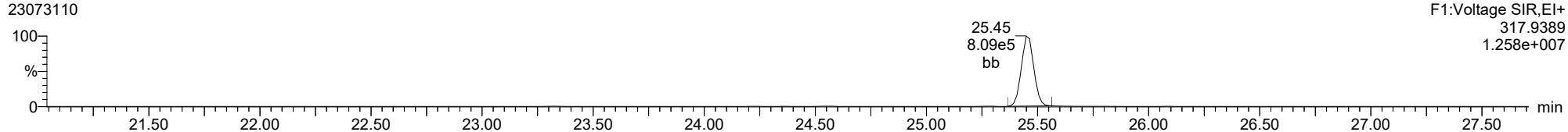
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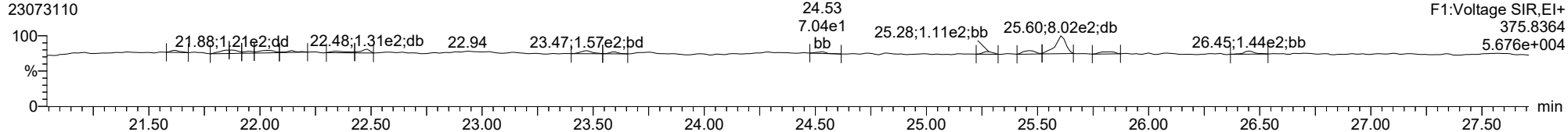
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FUNCTION1 HXCDPE

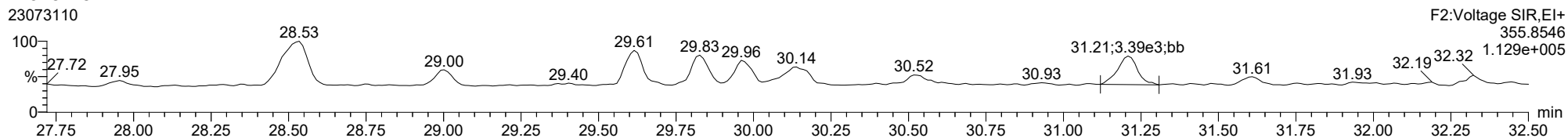
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

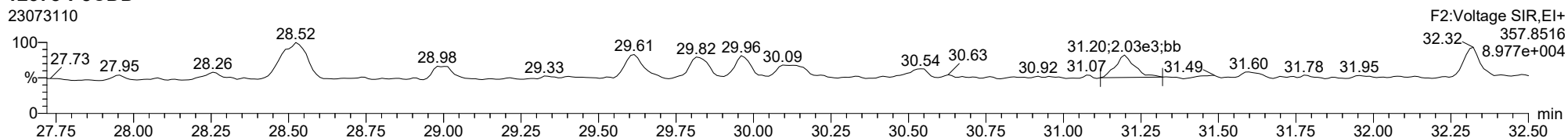
12378-PeCDD

23073110



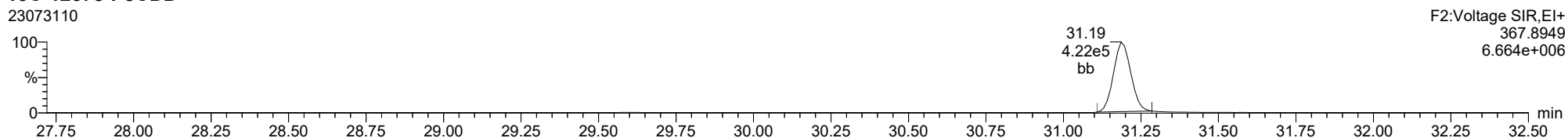
12378-PeCDD

23073110



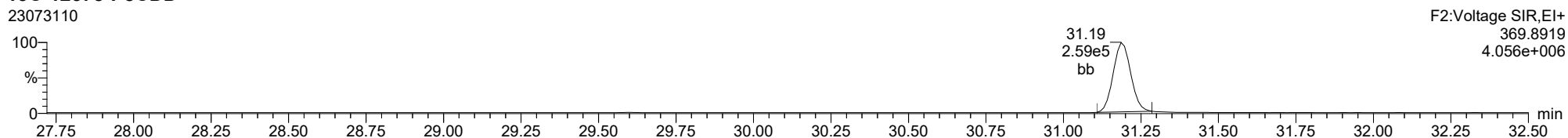
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23073110



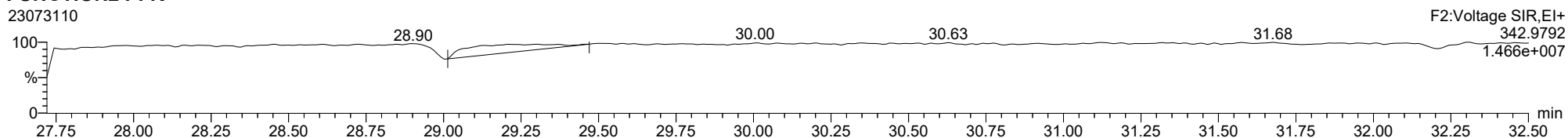
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23073110



FUNCTION2 PFK

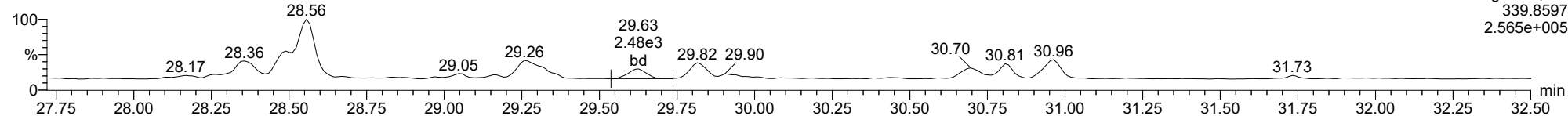
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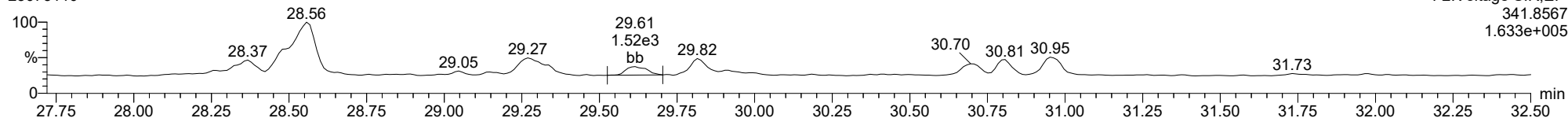
12378-PeCDF

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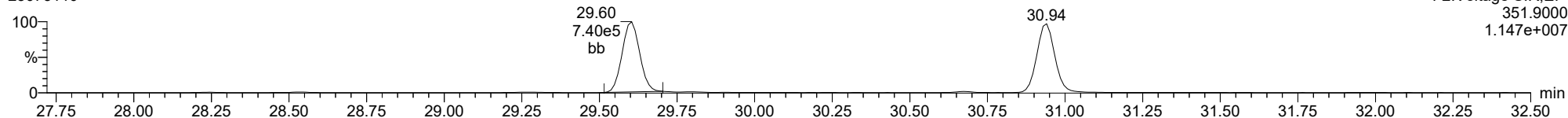
12378-PeCDF

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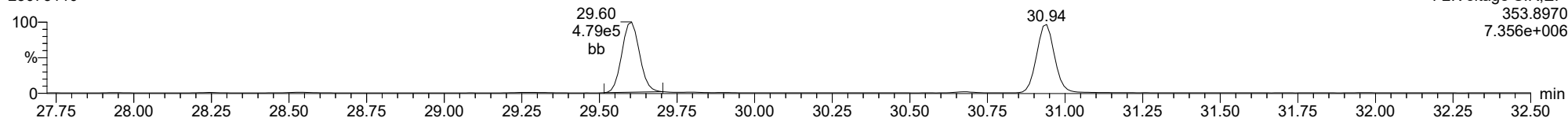
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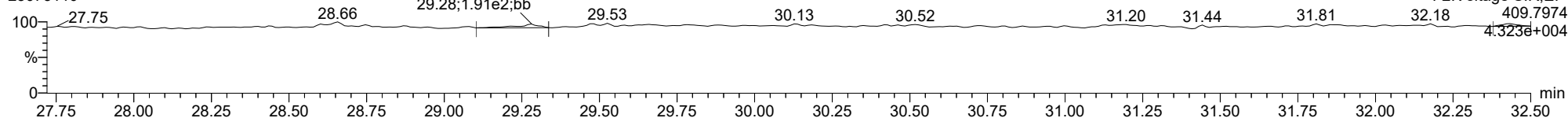
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FUNCTION2 HPCDPE

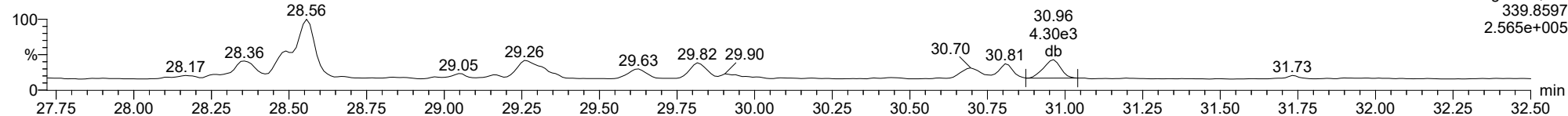
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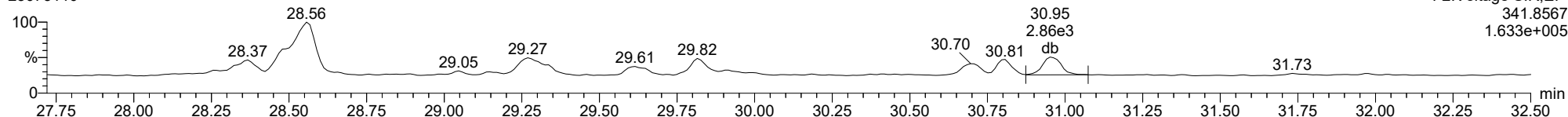
23478-PeCDF

23073110



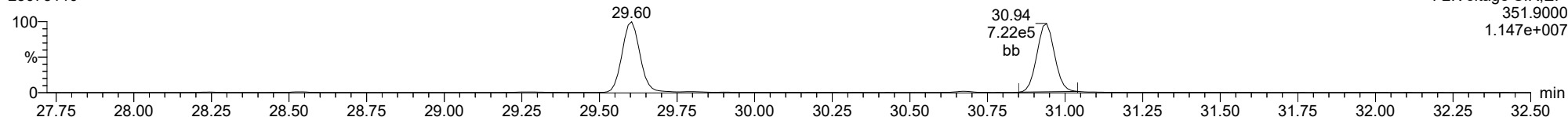
23478-PeCDF

23073110



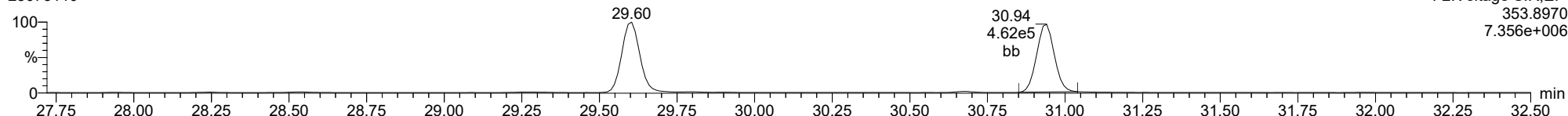
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23073110



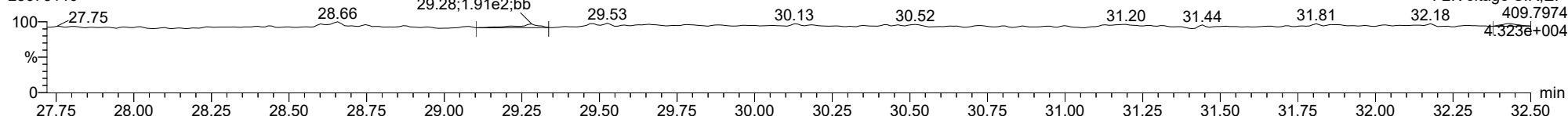
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23073110



FUNCTION2 HPCDPE

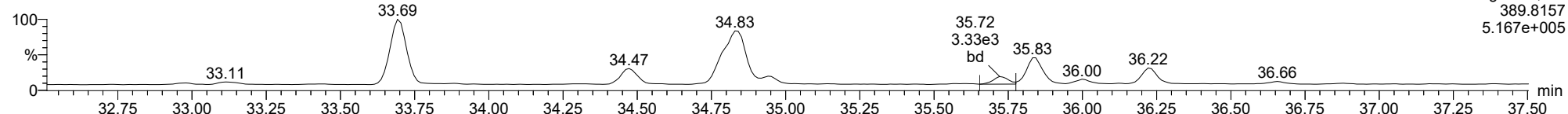
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

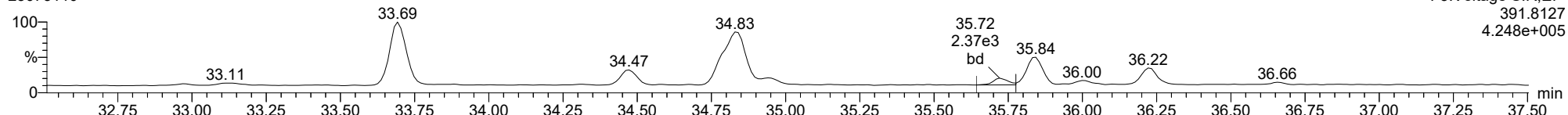
123478-HxCDD

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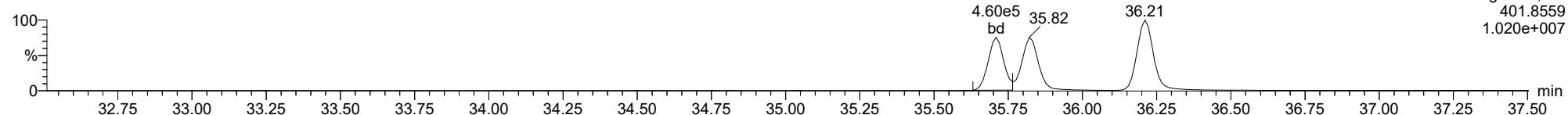
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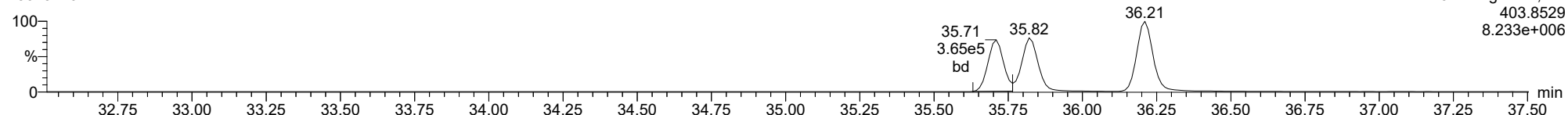
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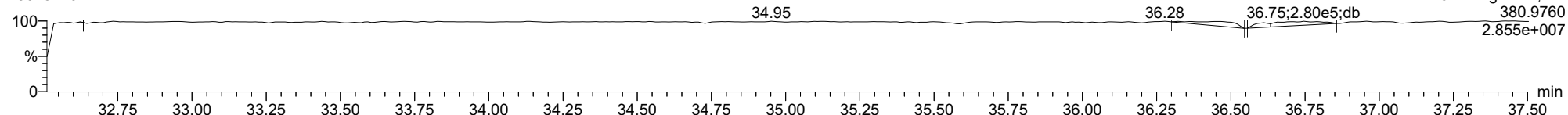
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FUNCTION3 PFK

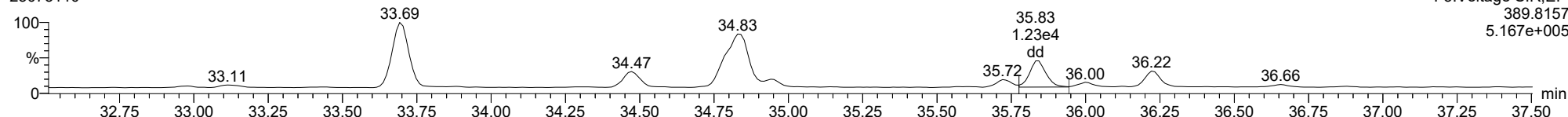
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

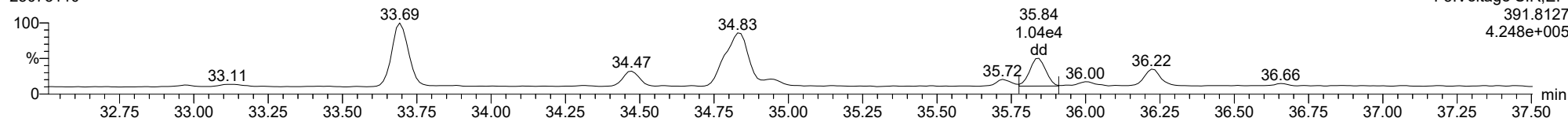
123678-HxCDD

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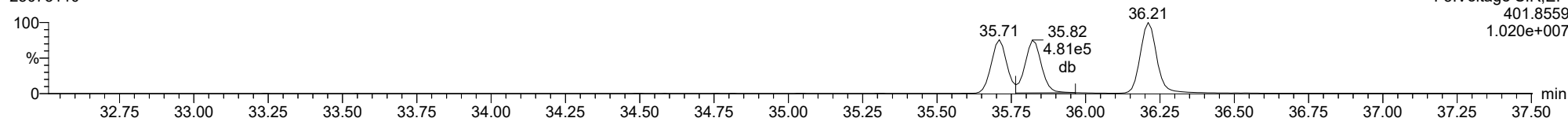
123678-HxCDD

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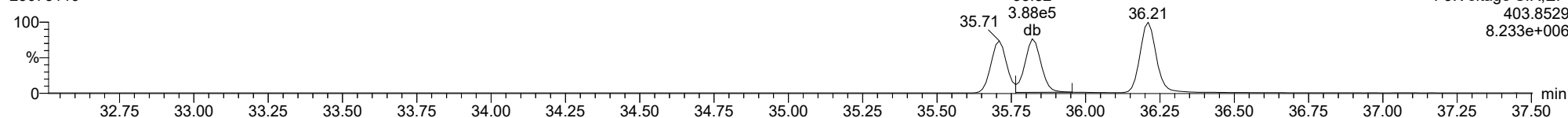
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13C-123678-HxCDD

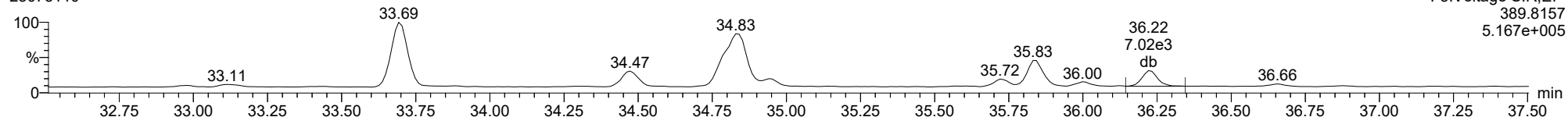
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

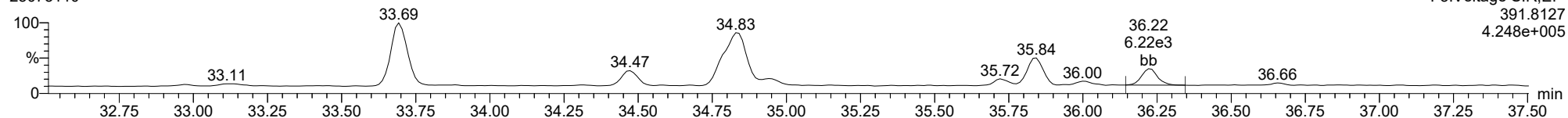
123789-HxCDD

23073110



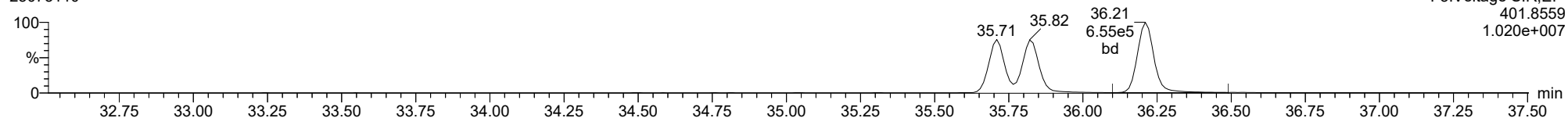
123789-HxCDD

23073110



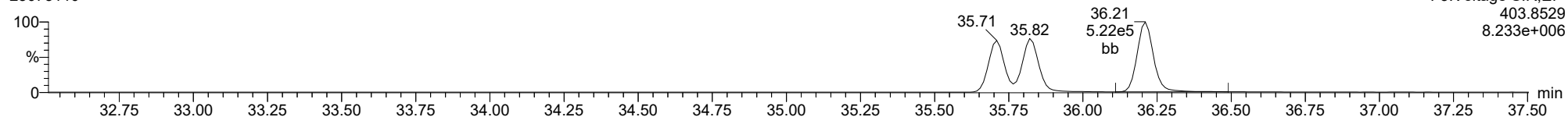
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13C-123789-HxCDD

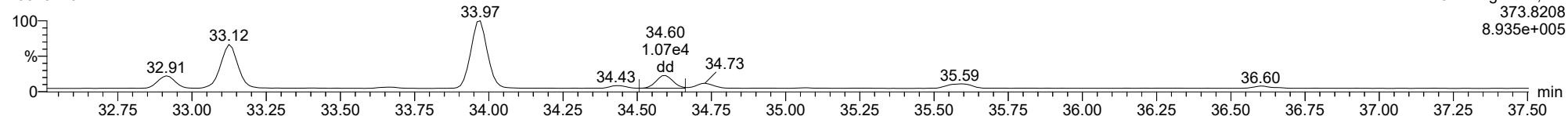
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

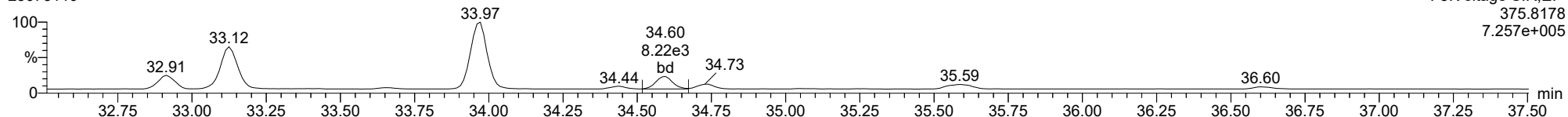
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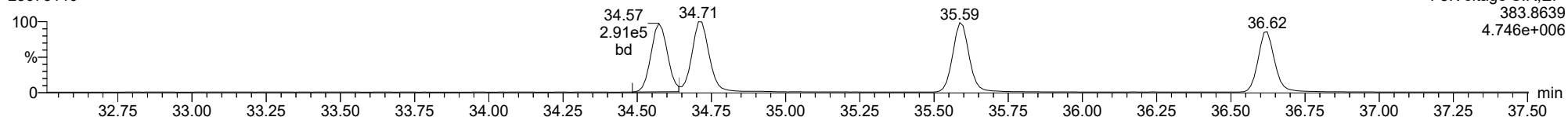
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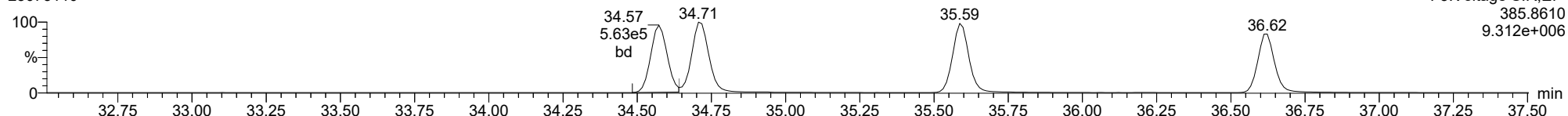
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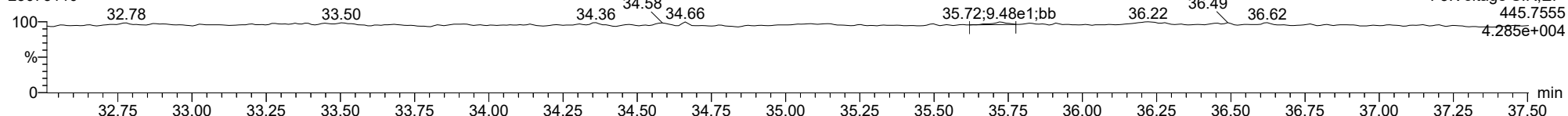
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23073110



FUNCTION3 OCDPE

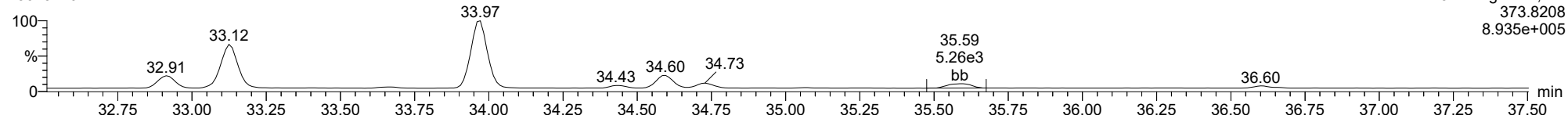
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

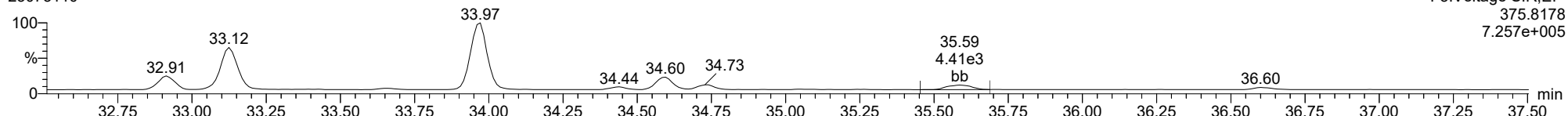
234678-HxCDF

23073110



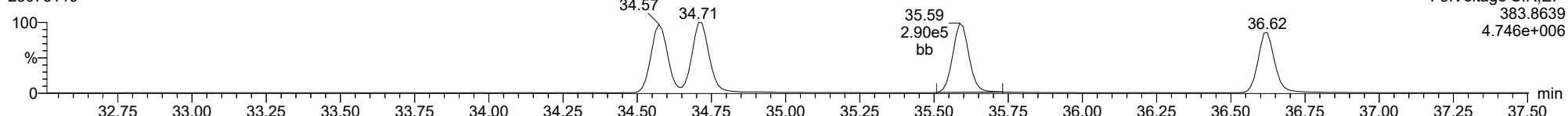
234678-HxCDF

23073110



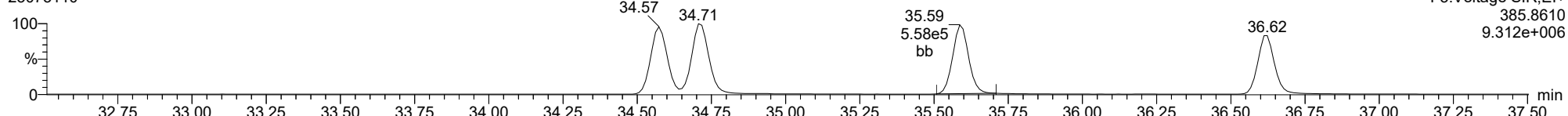
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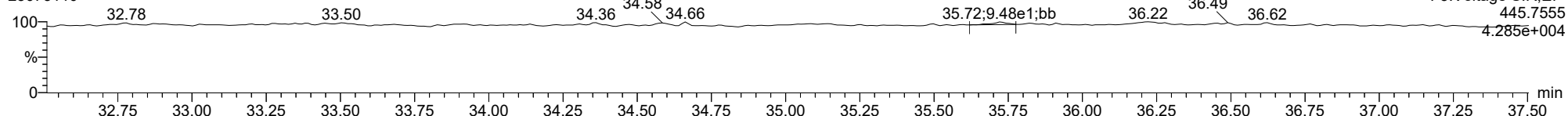
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23073110



FUNCTION3 OCDPE

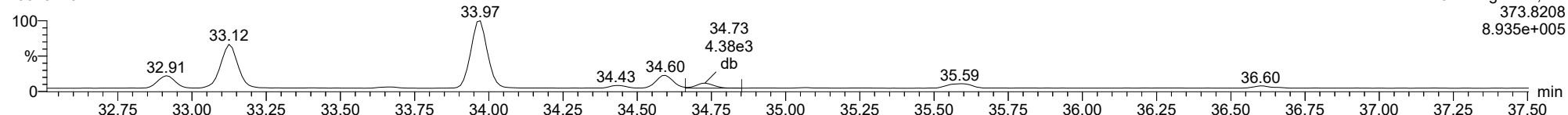
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

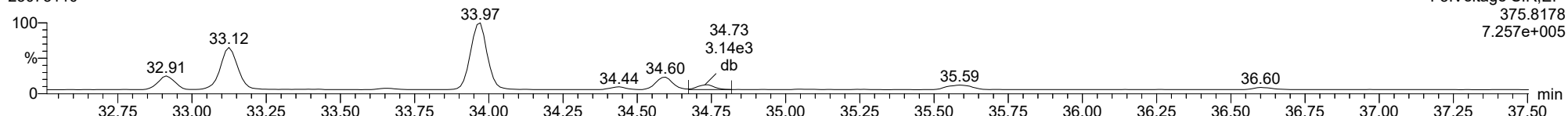
123678-HxCDF

23073110



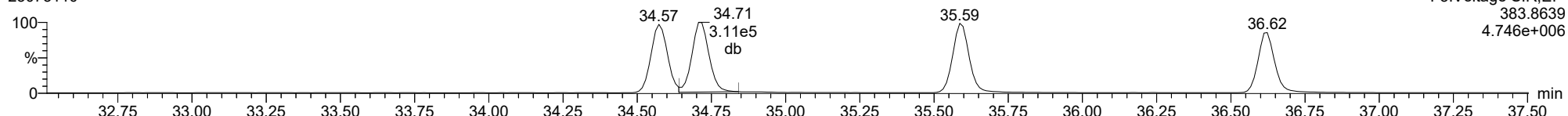
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23073110



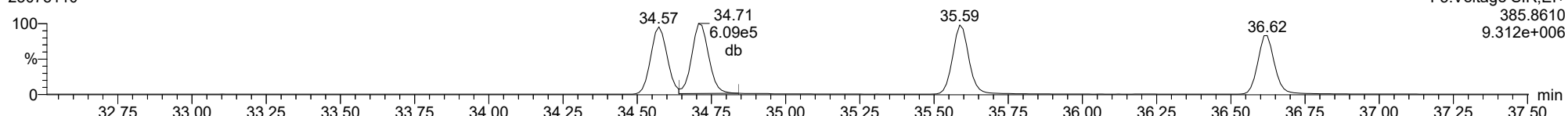
13C-123678-HxCDF

23073110



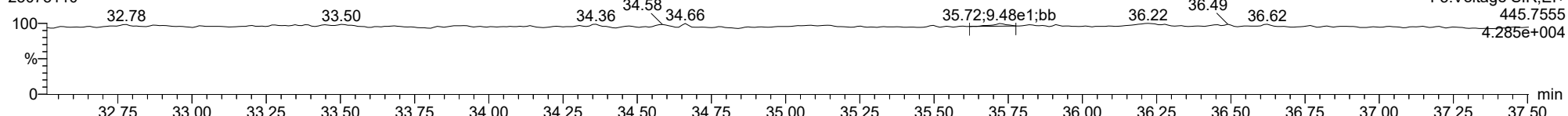
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23073110



FUNCTION3 OCDPE

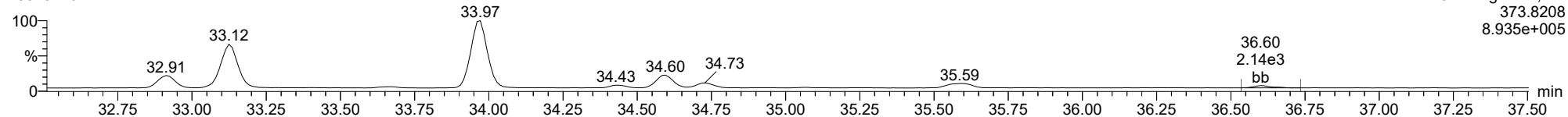
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

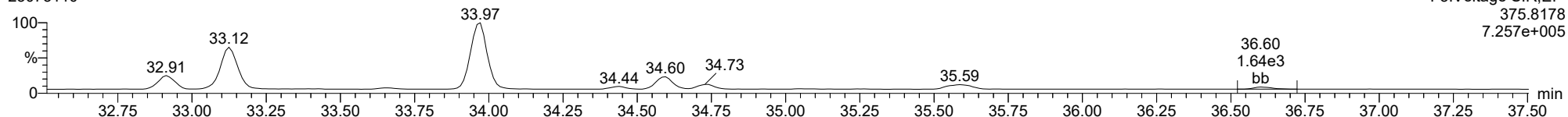
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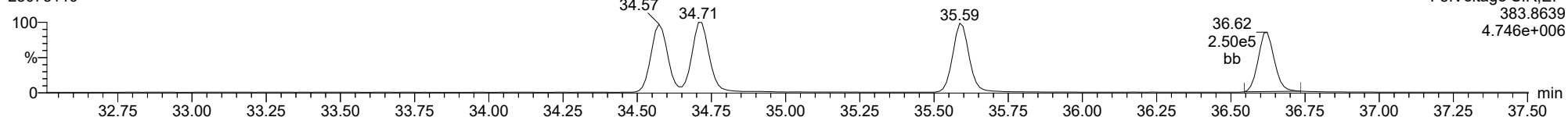
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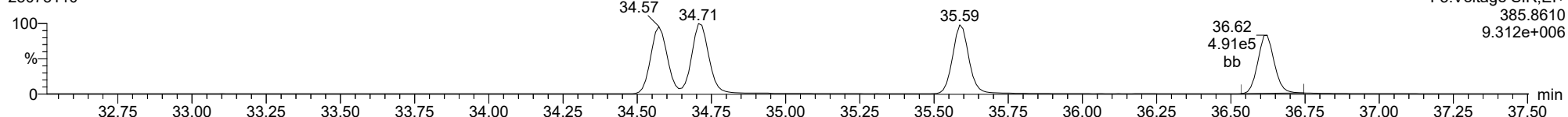
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23073110



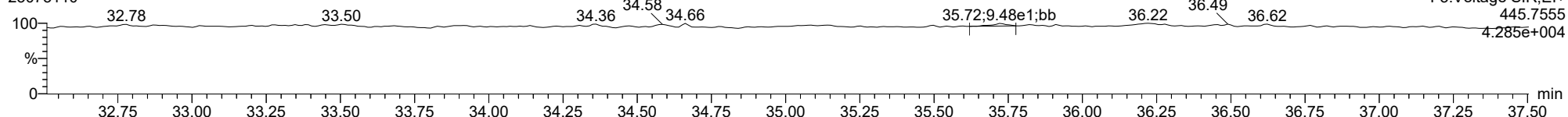
13C-123789-HxCDF

23073110



FUNCTION3 OCDPE

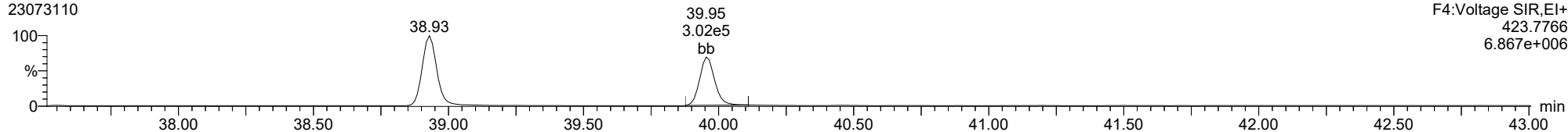
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

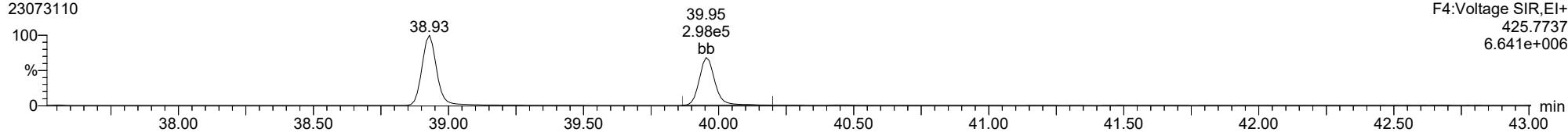
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23073110



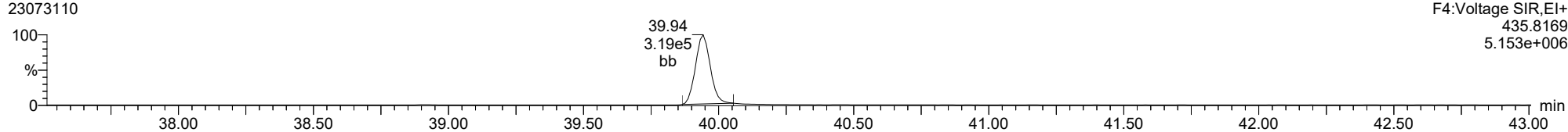
1234678-HpCDD

23073110



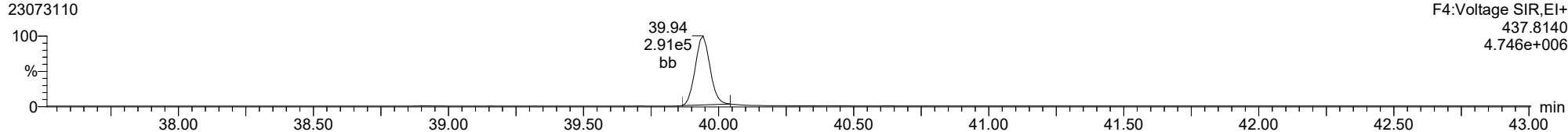
13C-1234678-HpCDD

23073110



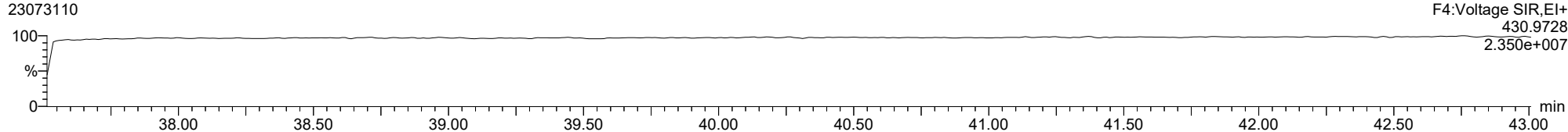
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23073110



FUNCTION4 PFK

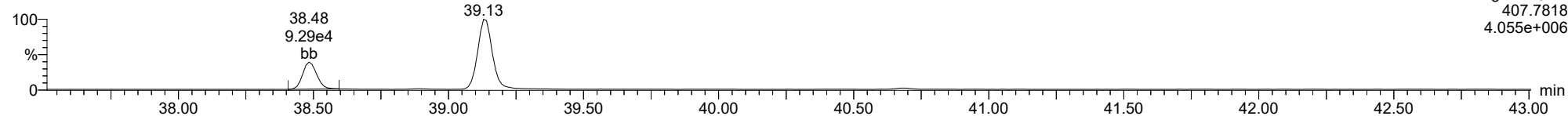
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

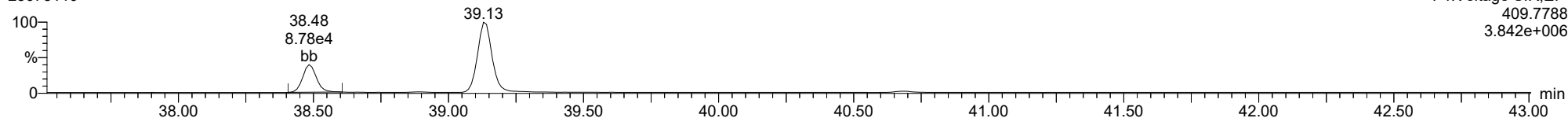
1234678-HpCDF

23073110



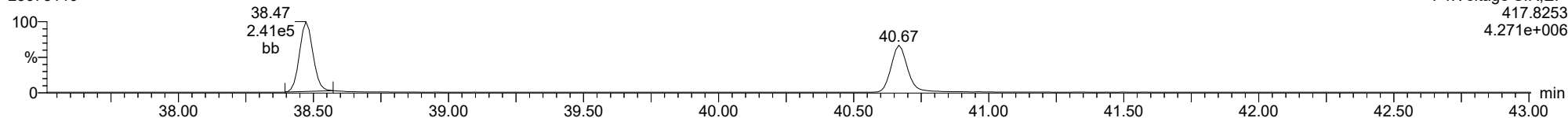
1234678-HpCDF

23073110



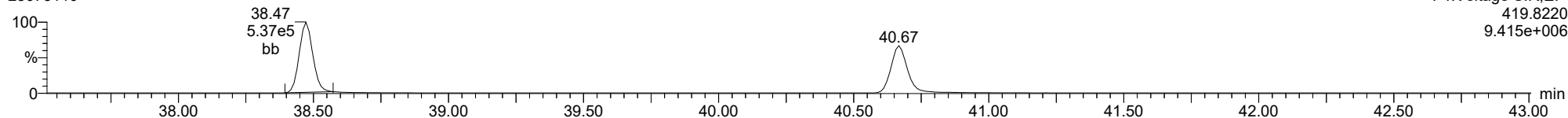
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23073110



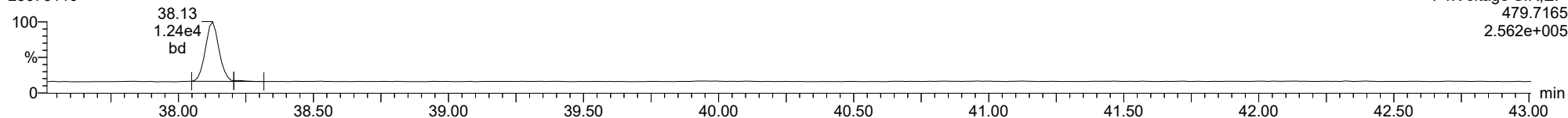
13C-1234678-HpCDF

23073110



FUNCTION4 NCDPE

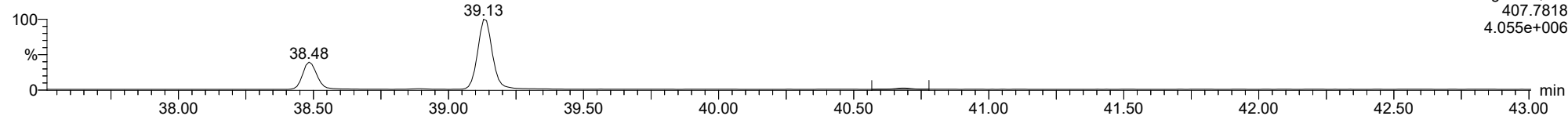
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

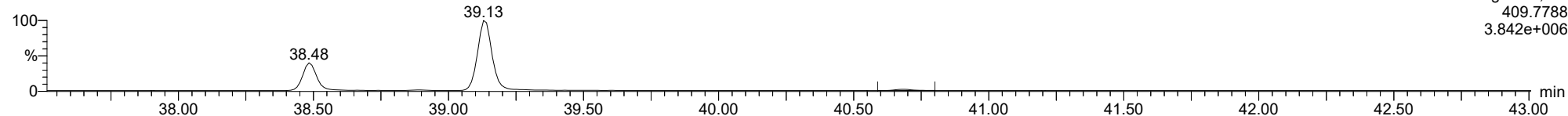
1234789-HpCDF

23073110



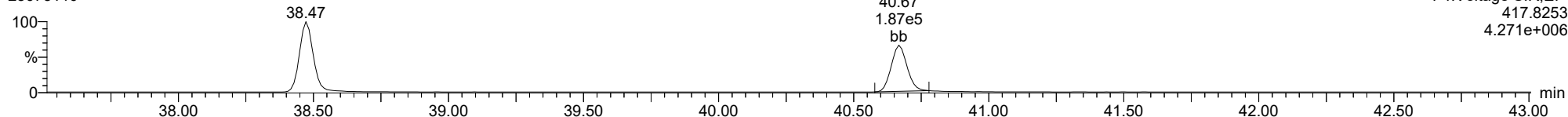
1234789-HpCDF

23073110



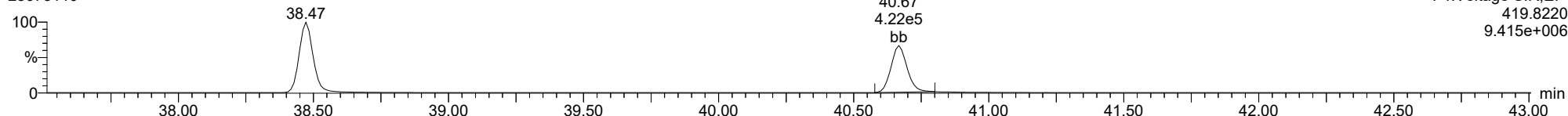
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23073110



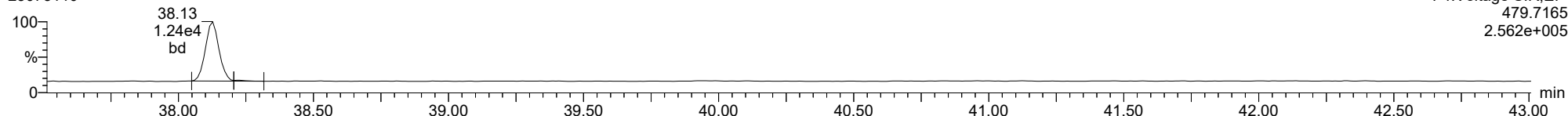
13C-1234789-HpCDF

23073110



FUNCTION4 NCDPE

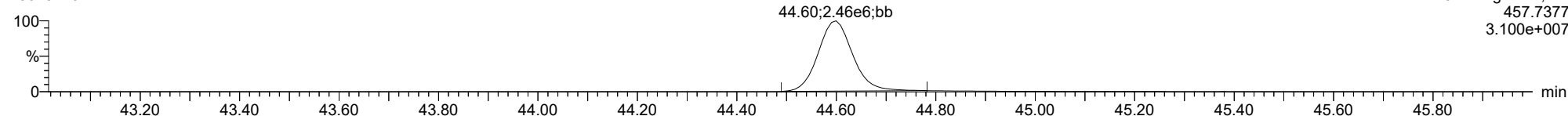
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

OCDD

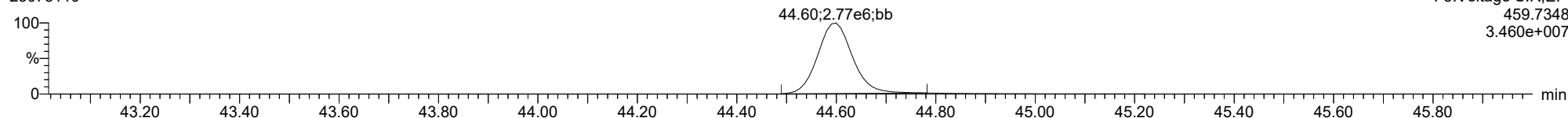
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F5:Voltage SIR,EI+
457.7377
3.100e+007

OCDD

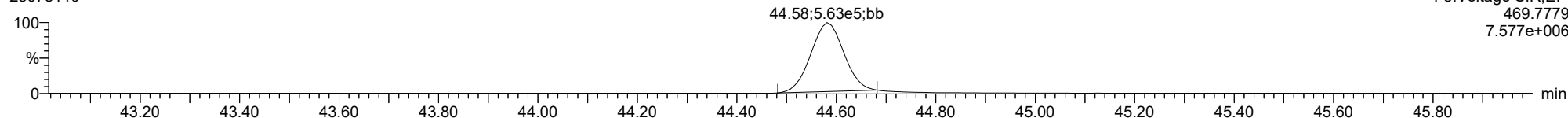
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F5:Voltage SIR,EI+
459.7348
3.460e+007

13C-OCDD

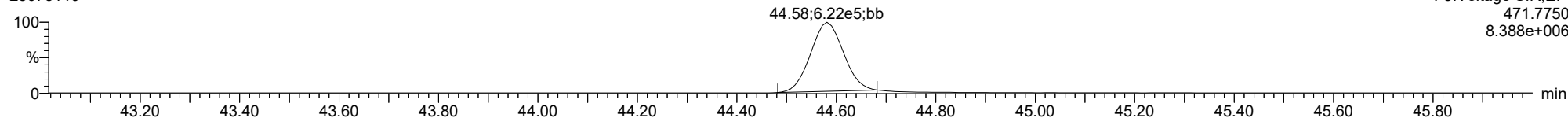
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F5:Voltage SIR,EI+
469.7779
7.577e+006

13C-OCDD

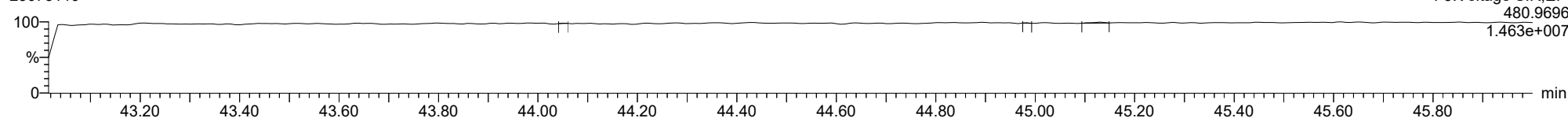
23073110



F5:Voltage SIR,EI+
471.7750
8.388e+006

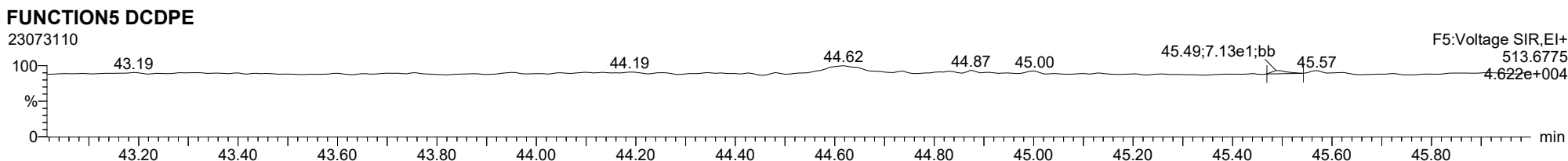
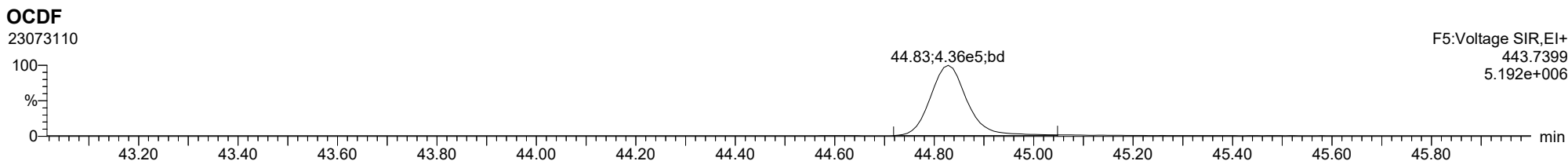
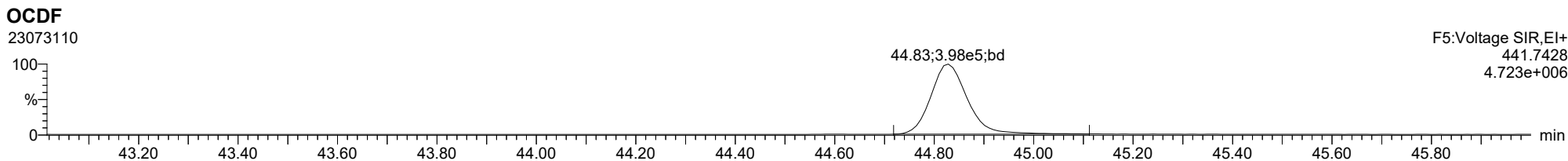
FUNCTION5 PFK

23073110



F5:Voltage SIR,EI+
480.9696
1.463e+007

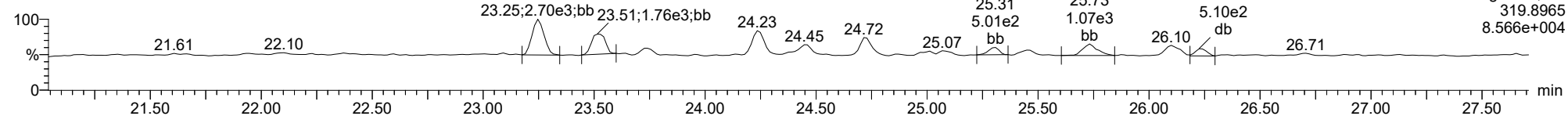
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

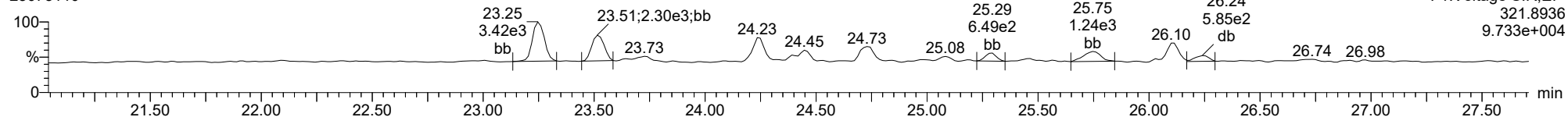
Total-tetradoxins

23073110



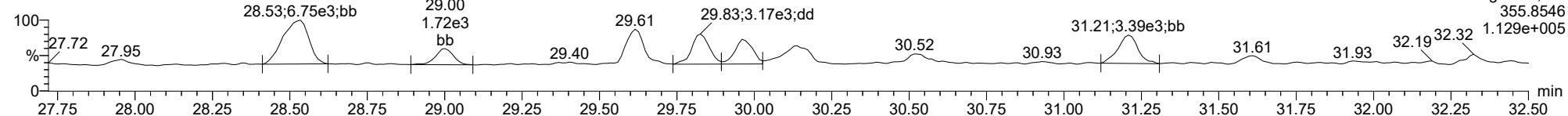
Total-tetradoxins

23073110



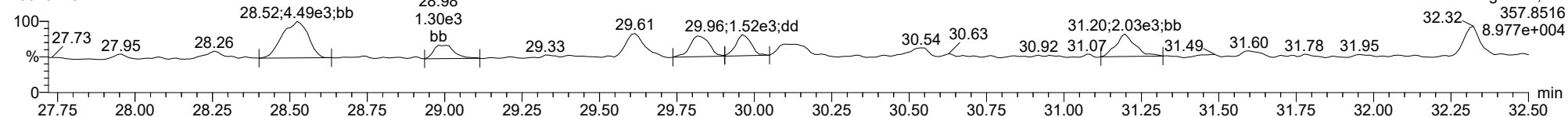
Total-pentadoxins

23073110



Total-pentadoxins

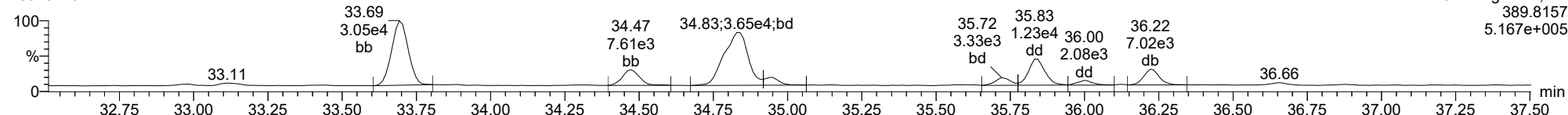
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ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

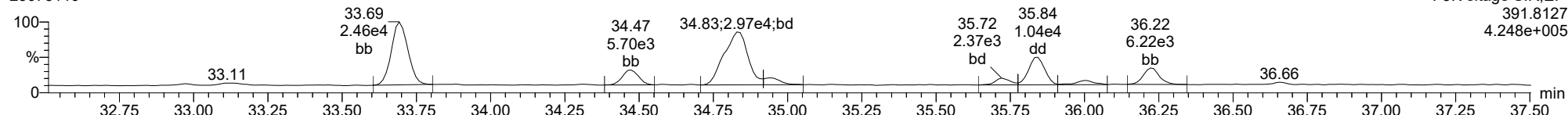
Total-hexadioxins

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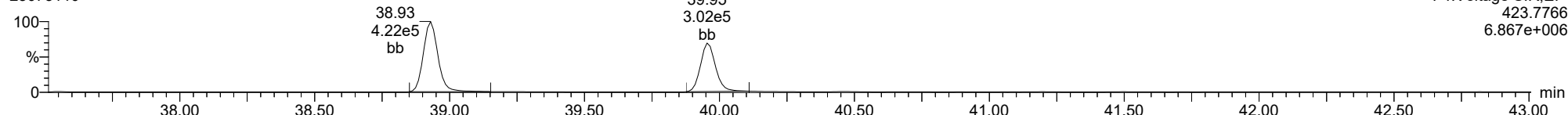
Total-hexadioxins

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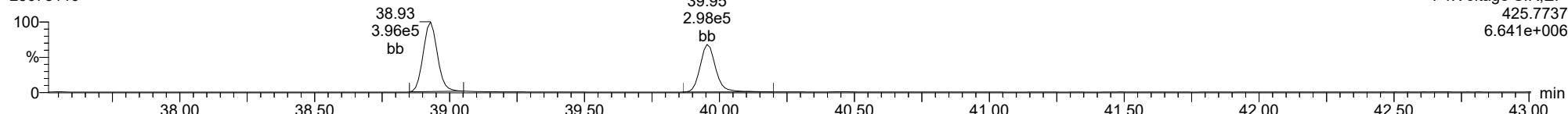
Total-heptadioxins

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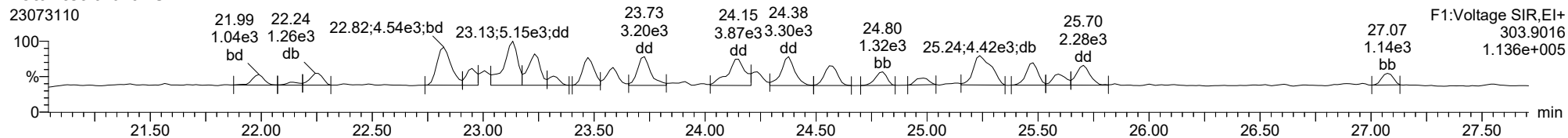
Total-heptadioxins

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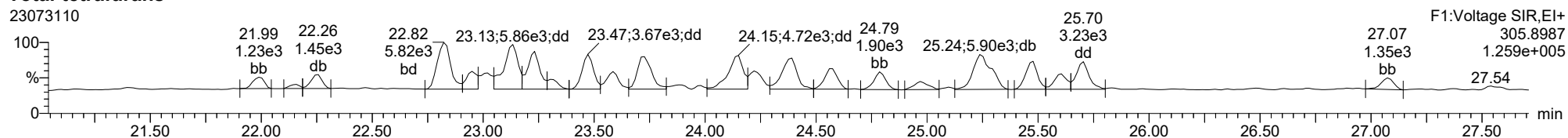


ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

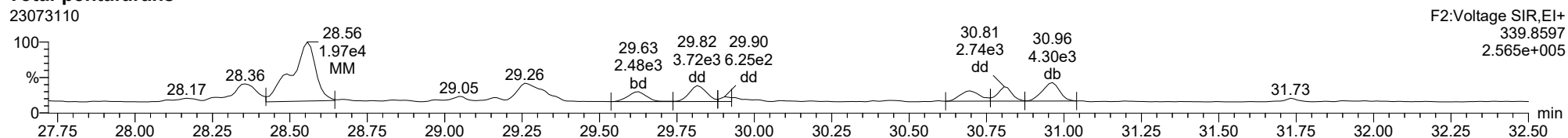
Total-tetrafurans



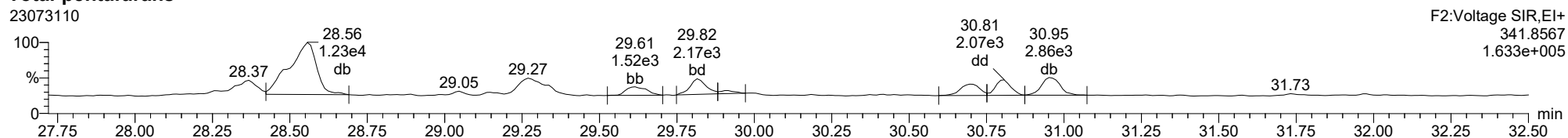
Total-tetrafurans



Total-pentafurans



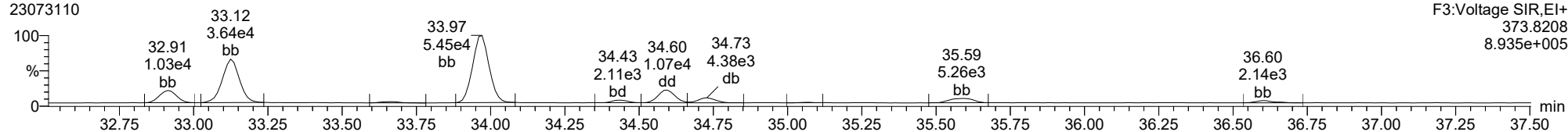
Total-pentafurans



ID: 23F0143-24, Name: 23073110, Date: 31-Jul-2023, Time: 19:30:41, Conditions: AUTOSPEC01, User: pk

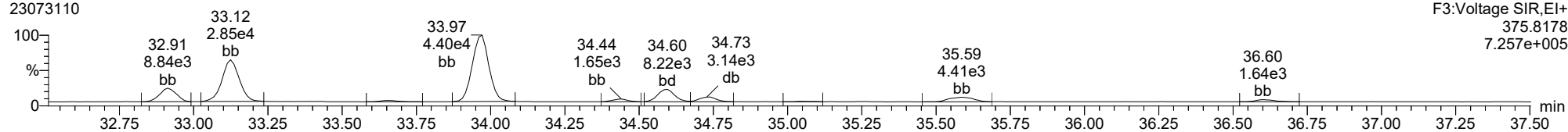
Total-hexafurans

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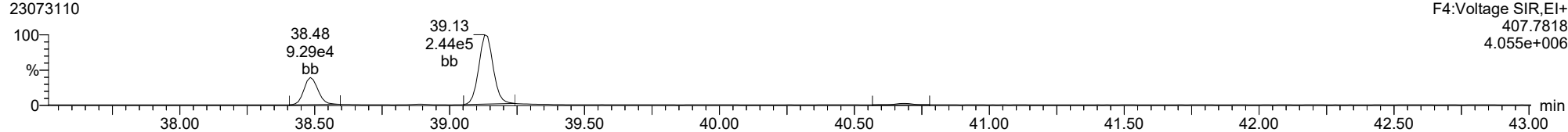
Total-hexafurans

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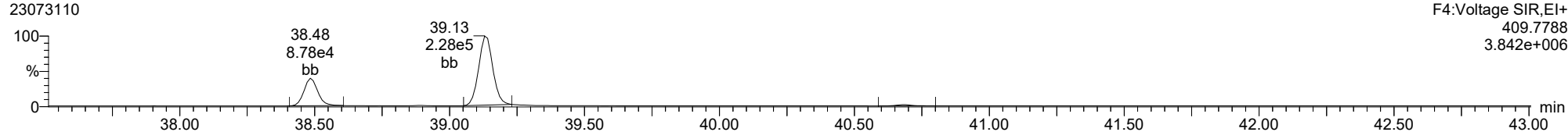
Total-heptafurans

23073110



Total-heptafurans

23073110





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

Laboratory: Analytical Resources, LLC SDG: 23F0143
 Client: Anchor QEA, LLC
 Project: AOC5 MR Phase 1
 Matrix: Sediment Laboratory ID: 23F0143-29 B File ID: 23073111
 Sampled: 04/11/23 14:38 Prepared: 06/14/23 12:00 Analyzed: 07/31/23 20:19
 % Solids: 50.94 Preparation: EPA 1613 Initial/Final: 19.66 g Wet / 20 uL
 Result Basis: Dry Sequence: SLG0303 Calibration: GG00074
 Batch: BLF0318 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	0.797	0.655-0.886	0.243	0.999	7.78	ng/kg	X
1746-01-6	2,3,7,8-TCDD	1	0.578	0.655-0.886	0.175	0.999	1.25	ng/kg	EMPC
57117-41-6	1,2,3,7,8-PeCDF	1	1.610	1.318-1.783	0.187	0.999	5.35	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.511	1.318-1.783	0.159	0.999	24.9	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.561	1.318-1.783	0.403	0.999	8.31	ng/kg	
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.243	1.054-1.426	0.202	0.999	25.1	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.300	1.054-1.426	0.221	0.999	9.82	ng/kg	
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.188	1.054-1.426	0.237	0.999	11.0	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.260	1.054-1.426	0.361	0.999	3.55	ng/kg	
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.267	1.054-1.426	0.394	0.999	10.5	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.191	1.054-1.426	0.384	0.999	36.5	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.255	1.054-1.426	0.416	0.999	25.6	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.039	0.893-1.208	0.478	0.999	192	ng/kg	B
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.034	0.893-1.208	0.788	0.999	11.3	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.047	0.893-1.208	0.835	2.50	1200	ng/kg	B
39001-02-0	OCDF	1	0.913	0.757-1.024	0.565	2.50	557	ng/kg	B
3268-87-9	OCDD	1	0.878	0.757-1.024	0.875	9.99	9780	ng/kg	E, B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	467	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	29.7	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	325	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	34.0	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	285	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	393	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	635	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	3530	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 47.31
 Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 47.31



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

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Matrix:	<u>Sediment</u>	Laboratory ID:	<u>23F0143-29</u>
Sampled:	<u>04/11/23 14:38</u>	Prepared:	<u>06/14/23 12:00</u>
Solids Wt%:	<u>50.94</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLG0303</u>
Batch:	<u>BLF0318</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23073111</u>
		Analyzed:	<u>07/31/23 20:19</u>
		Initial/Final:	<u>19.66 g / 20 uL</u>
		Calibration:	<u>GG00074</u>
		Column:	<u>RTX-Dioxin2</u>

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.782	0.655-0.886	0.085	53.0	24 - 169 %	
13C12-2,3,7,8-TCDD		0.797	0.655-0.886	0.113	73.1	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.541	1.318-1.783	0.098	62.1	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.557	1.318-1.783	0.104	66.5	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.645	1.318-1.783	0.132	70.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.507	0.434-0.587	0.164	71.7	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.510	0.434-0.587	0.136	56.9	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.522	0.434-0.587	0.165	62.3	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.513	0.434-0.587	0.191	35.6	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.233	1.054-1.426	0.161	72.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.247	1.054-1.426	0.138	62.8	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.455	0.374-0.506	0.180	48.5	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.442	0.374-0.506	0.236	46.9	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.070	0.893-1.208	0.295	64.9	23 - 140 %	
13C12-OCDD		0.910	0.757-1.024	0.261	57.1	17 - 157 %	
37Cl4-2,3,7,8-TCDD		328.000		0.039	78.5	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:21:50 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, 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	25.534	1.001	1.587e4	1.993e4	0.951	0.797	0.770	2625	2599	2.36e5	2.88e5	90.0	110.7	NO	bd	bd	3.897
12378-PeCDF	29.726	1.001	1.367e4	8.494e3	0.963	1.610	1.550	1584	2052	1.93e5	1.15e5	121.8	56.1	NO	bd	bb	2.681
23478-PeCDF	31.063	1.001	6.907e4	4.571e4	1.072	1.511	1.550	1584	2052	9.66e5	6.44e5	609.8	313.8	NO	db	db	12.444
123478-HxCDF	34.728	1.001	4.210e4	3.387e4	1.142	1.243	1.240	1375	1647	6.47e5	5.22e5	470.7	316.6	NO	dd	dd	12.569
234678-HxCDF	35.775	1.001	1.550e4	1.304e4	1.138	1.188	1.240	1375	1647	1.44e5	1.13e5	104.5	68.9	NO	MM	bb	5.485
123678-HxCDF	34.873	1.001	1.542e4	1.186e4	1.100	1.300	1.240	1375	1647	2.17e5	1.73e5	157.8	105.3	NO	dd	db	4.918
123789-HxCDF	36.711	1.000	2.382e3	1.891e3	1.066	1.260	1.240	1375	1647	4.71e4	3.98e4	34.3	24.2	NO	bb	bb	1.779
1234678-HpCDF	38.594	1.000	2.012e5	1.936e5	1.210	1.039	1.050	3927	1716	3.38e6	3.27e6	859.8	1903.6	NO	bb	bb	96.341
1234789-HpCDF	40.788	1.000	8.727e3	8.444e3	1.213	1.034	1.050	3927	1716	1.22e5	1.22e5	31.1	71.4	NO	bb	bb	5.662
OCDF	44.955	1.006	3.874e5	4.244e5	1.391	0.913	0.890	1819	1691	4.70e6	5.12e6	2584.9	3028.7	NO	bd	bb	278.989
2378-TCDD	26.184	1.001	2.094e3	3.624e3	1.197	0.578	0.770	1518	2061	2.71e4	4.78e4	17.9	23.2	YES	bd	bd	0.624
12378-PeCDD	31.308	1.000	1.474e4	9.440e3	1.129	1.561	1.550	2752	2994	1.90e5	1.18e5	69.2	39.2	NO	bb	bb	4.161
123478-HxCDD	35.887	1.001	1.240e4	9.785e3	0.917	1.267	1.240	2252	1981	1.90e5	1.52e5	84.3	76.7	NO	bd	bd	5.263
123678-HxCDD	35.998	1.000	4.358e4	3.659e4	0.944	1.191	1.240	2252	1981	6.78e5	5.74e5	301.3	289.8	NO	dd	dd	18.299
123789-HxCDD	36.388	1.011	2.867e4	2.284e4	0.869	1.255	1.240	2252	1981	4.43e5	3.54e5	196.7	178.5	NO	bb	bb	12.837
1234678-HpCDD	40.064	1.001	1.043e6	9.959e5	1.237	1.047	1.050	4104	3345	1.62e7	1.56e7	3944.3	4650.5	NO	bb	bb	601.591
OCDD	44.726	1.000	5.811e6	6.615e6	1.212	0.878	0.890	1430	3305	7.17e7	8.17e7	50163.2	24729.2	NO	bb	bb	4898.101
13C-2378-TCDF	25.520	1.007	4.236e5	5.419e5	1.920	0.782	0.770	2440	1524	5.95e6	7.67e6	2437.9	5032.3	NO	bb	bb	52.964
13C-12378-PeCDF	29.704	1.172	5.207e5	3.378e5	1.455	1.541	1.550	1709	1745	7.33e6	4.74e6	4288.1	2713.6	NO	bb	bb	62.126
13C-23478-PeCDF	31.040	1.225	5.239e5	3.365e5	1.363	1.557	1.550	1709	1745	7.76e6	4.96e6	4539.5	2840.8	NO	bb	bb	66.482
13C-123478-HxCDF	34.706	0.954	1.782e5	3.512e5	1.119	0.507	0.510	1246	1901	2.65e6	5.28e6	2124.8	2775.4	NO	bd	bd	71.748
13C-123678-HxCDF	34.850	0.958	1.703e5	3.340e5	1.343	0.510	0.510	1246	1901	2.52e6	5.02e6	2021.1	2640.9	NO	db	db	56.937
13C-234678-HxCDF	35.753	0.983	1.568e5	3.005e5	1.113	0.522	0.510	1246	1901	2.31e6	4.40e6	1849.8	2314.6	NO	bb	bb	62.316
13C-123789-HxCDF	36.722	1.009	7.636e4	1.488e5	0.959	0.513	0.510	1246	1901	1.60e6	3.15e6	1280.1	1656.9	NO	bb	bb	35.615
13C-1234678-HpCDF	38.583	1.061	1.059e5	2.329e5	1.058	0.455	0.440	1456	1825	1.83e6	3.97e6	1255.1	2173.9	NO	bb	bb	48.518
13C-1234789-HpCDF	40.777	1.121	7.662e4	1.735e5	0.809	0.442	0.440	1456	1825	1.08e6	2.45e6	744.4	1342.3	NO	bb	bb	46.893
13C-1234-TCDD	25.336	0.000	4.203e5	5.294e5	1.000	0.794	0.770	1840	1192	6.44e6	8.18e6	3501.3	6858.0	NO	bb	bb	100.000
13C-2378-TCDD	26.156	1.032	3.398e5	4.265e5	1.104	0.797	0.770	1840	1192	4.54e6	5.78e6	2468.4	4845.7	NO	bb	bb	73.071
13C-12378-PeCDD	31.297	1.235	3.200e5	1.945e5	0.770	1.645	1.550	1348	1126	4.71e6	2.85e6	3491.8	2528.4	NO	bb	bb	70.333
13C-123478-HxCDD	35.864	0.986	2.538e5	2.058e5	0.959	1.233	1.240	1518	1137	3.88e6	3.19e6	2554.5	2804.8	NO	bd	bd	72.633
13C-123678-HxCDD	35.987	0.989	2.575e5	2.065e5	1.120	1.247	1.240	1518	1137	3.88e6	3.12e6	2557.6	2744.3	NO	db	db	62.807
13C-1234678-HpCDD	40.042	1.101	1.417e5	1.324e5	0.640	1.070	1.050	1486	1765	2.23e6	2.11e6	1502.7	1194.7	NO	bb	bb	64.883
13C-OCDD	44.708	1.229	1.994e5	2.191e5	0.555	0.910	0.890	1246	1244	2.55e6	2.81e6	2045.2	2255.1	NO	bb	bb	114.249
13C-123789-HxCDD	36.377	0.000	3.664e5	2.932e5	1.000	1.249	1.240	1518	1137	5.72e6	4.54e6	3769.3	3992.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.184	1.033	3.367e5	1.129				1058		4.51e6		4262.4			bb		31.396

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.045	0.864	8.857e3	1.264e4	1.201	0.701	0.770	2625	2599	1.46e5	1.98e5	55.4	76.3	NO	bd	bd	1.854
1289-TCDF	27.116	1.063	5.639e3	8.320e3	0.950	0.678	0.770	2625	2599	8.14e4	1.16e5	31.0	44.4	NO	db	db	1.521
13468-PECDF					1.142		1.550	1158	1134								
12389-PECDF					0.917		1.550	1584	2052								
123468-HXCDF	33.057	0.952	4.182e4	3.373e4	1.332	1.240	1.240	1375	1647	6.12e5	4.86e5	444.8	294.9	NO	bb	bd	10.715
1368-TCDD	23.302	0.891	7.428e3	8.788e3	1.148	0.845	0.770	1518	2061	1.21e5	1.54e5	79.4	74.6	NO	bb	bb	1.843
1289-TCDD					0.955		0.770	1518	2061								
12479-PECDD					2.043		1.550	2752	2994								
12389-PECDD	31.720	1.014	3.650e3	2.500e3	1.326	1.460	1.550	2752	2994	5.53e4	3.27e4	20.1	10.9	NO	bb	bb	0.902
124679-HXCDD	33.826	0.943	1.757e5	1.453e5	1.104	1.209	1.240	2252	1981	2.70e6	2.25e6	1199.3	1137.3	NO	bb	bb	63.300
1234679-HPCDD	39.039	0.975	2.530e6	2.438e6	1.554	1.038	1.050	4104	3345	4.19e7	3.99e7	10207.7	11938.8	NO	bb	bb	1166.152
Total-tetrafurans			1.033e6		1.034			2625		1.42e7							233.998
Total-penta1			1.235e5					1158		1.69e6							25.982
Total-pentafurans			7.118e5		0.984			1584		9.81e6							136.709
Total-hexafurans			4.127e5		1.155			1375		6.06e6							142.828
Total-heptafurans			6.069e5		1.211			3927		1.01e7							318.122
Total-Furans			3.277e6		1.119			2625		4.66e7							1136.884
Total-tetradoxins			5.502e4		1.100			1518		8.36e5							14.886
Total-pentadoxins			7.430e4		1.499			2752		9.58e5							17.012
Total-hexadoxins			4.962e5		0.958			2252		6.72e6							196.845
Total-heptadoxins			3.573e6		1.396			4104		5.81e7							1767.743
Total-Dioxins			1.001e7		1.203			1518		1.38e8							6894.589
Total-TEQ			1.329e7					1518		1.85e8							8031.473
FUNCTION1 PFK			5.025e7					344338		3.66e8							
FUNCTION2 PFK			3.580e6					141513		2.16e7							0.000
FUNCTION3 PFK			7.971e6					117719		6.07e7							0.000
FUNCTION4 PFK			1.565e7					197661		1.33e8							
FUNCTION5 PFK			3.280e4					167525		5.77e5							
FUNCTION1 HXCD...			6.582e3					1318		1.13e5							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			9.587e2					1063		2.11e4							0.000
FUNCTION3 OCDPE			6.451e2					739		1.14e4							0.000
FUNCTION4 NCDPE			1.868e4					934		3.14e5							0.000
FUNCTION5 DCDPE			9.552e2					1025		1.34e4							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:21:50 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, 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	23.91	4.281e3	5.310e3	1.034	0.81	0.77	23.8	YES	NO	dd	dd	0.961
2	Total-tetrafurans	23.77	2.943e4	3.624e4	1.034	0.81	0.77	170.4	YES	NO	dd	dd	6.576
3	Total-tetrafurans	23.63	2.514e4	3.117e4	1.034	0.81	0.77	156.5	YES	NO	dd	dd	5.639
4	Total-tetrafurans	23.53	2.959e4	3.674e4	1.034	0.81	0.77	184.3	YES	NO	dd	dd	6.643
5	Total-tetrafurans	23.37	7.108e3	8.623e3	1.034	0.82	0.77	59.1	YES	NO	dd	dd	1.575
6	Total-tetrafurans	23.29	6.482e4	7.902e4	1.034	0.82	0.77	378.4	YES	NO	dd	dd	14.404
7	Total-tetrafurans	23.19	1.723e5	2.185e5	1.034	0.79	0.77	825.6	YES	NO	dd	dd	39.135
8	Total-tetrafurans	23.01	5.886e4	7.364e4	1.034	0.80	0.77	318.7	YES	NO	dd	dd	13.269
9	Total-tetrafurans	22.88	2.302e4	2.938e4	1.034	0.78	0.77	120.2	YES	NO	bd	bd	5.247
10	Total-tetrafurans	22.30	2.361e4	3.144e4	1.034	0.75	0.77	154.2	YES	NO	db	db	5.513
11	1368-TCDF	22.05	8.857e3	1.264e4	1.201	0.70	0.77	55.4	YES	NO	bd	bd	1.854
12	1289-TCDF	27.12	5.639e3	8.320e3	0.950	0.68	0.77	31.0	YES	NO	db	db	1.521
13	Total-tetrafurans	25.77	2.795e4	3.505e4	1.034	0.80	0.77	151.4	YES	NO	db	db	6.309
14	Total-tetrafurans	25.68	7.863e3	9.789e3	1.034	0.80	0.77	45.1	YES	NO	dd	dd	1.768
15	2378-TCDF	25.53	1.587e4	1.993e4	0.951	0.80	0.77	90.0	YES	NO	bd	bd	3.897
16	Total-tetrafurans	25.31	3.200e5	4.036e5	1.034	0.79	0.77	1530.3	YES	NO	bb	bb	72.463
17	Total-tetrafurans	25.04	2.258e4	2.849e4	1.034	0.79	0.77	117.9	YES	NO	bb	bb	5.114
18	Total-tetrafurans	24.84	2.070e4	2.562e4	1.034	0.81	0.77	116.4	YES	NO	bb	bb	4.638
19	Total-tetrafurans	24.62	2.459e4	3.197e4	1.034	0.77	0.77	134.5	YES	NO	bb	bb	5.665
20	Total-tetrafurans	24.43	4.602e4	5.742e4	1.034	0.80	0.77	254.0	YES	NO	db	db	10.358
21	Total-tetrafurans	24.28	1.402e4	1.598e4	1.034	0.88	0.77	94.2	YES	NO	dd	dd	3.004
22	Total-tetrafurans	24.21	8.099e4	1.032e5	1.034	0.78	0.77	398.6	YES	NO	dd	bd	18.445

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.02	1.235e5	8.103e4		1.52	1.55	1455.4	YES	NO	db	db	25.982

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Printed: Tuesday, August 01, 2023 08:21:50 Pacific Daylight Time

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk**PF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	30.91	1.242e4	8.290e3	0.984	1.50	1.55	122.6	YES	NO	dd	dd	2.448
2	Total-pentafurans	30.80	4.319e4	2.646e4	0.984	1.63	1.55	418.2	YES	NO	bd	bd	8.237
3	Total-pentafurans	30.20	5.780e2	3.648e2	0.984	1.58	1.55	6.9	YES	NO	bb	bb	0.111
4	Total-pentafurans	30.03	8.610e3	5.257e3	0.984	1.64	1.55	83.4	YES	NO	db	db	1.640
5	Total-pentafurans	29.92	4.770e4	2.878e4	0.984	1.66	1.55	441.5	YES	NO	dd	bd	9.044
6	12378-PeCDF	29.73	1.367e4	8.494e3	0.963	1.61	1.55	121.8	YES	NO	bd	bb	2.681
7	Total-pentafurans	29.40	1.568e5	9.821e4	0.984	1.60	1.55	1364.8	YES	NO	bb	db	30.156
8	Total-pentafurans	29.21	6.997e3	4.935e3	0.984	1.42	1.55	91.9	YES	NO	bb	bd	1.411
9	Total-pentafurans	29.06	6.499e2	4.706e2	0.984	1.38	1.55	8.0	YES	NO	bb	bb	0.133
10	Total-pentafurans	28.78	1.538e5	9.967e4	0.984	1.54	1.55	1191.5	YES	NO	db	dd	29.971
11	Total-pentafurans	28.70	5.513e4	3.520e4	0.984	1.57	1.55	600.4	YES	NO	dd	dd	10.682
12	Total-pentafurans	28.57	1.125e5	7.178e4	0.984	1.57	1.55	864.6	YES	NO	dd	dd	21.793
13	Total-pentafurans	28.44	3.066e4	1.972e4	0.984	1.55	1.55	270.6	YES	NO	bd	dd	5.958
14	23478-PeCDF	31.06	6.907e4	4.571e4	1.072	1.51	1.55	609.8	YES	NO	db	db	12.444

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.71	2.382e3	1.891e3	1.066	1.26	1.24	34.3	YES	NO	bb	bb	1.779
2	234678-HxCDF	35.78	1.550e4	1.304e4	1.138	1.19	1.24	104.5	YES	NO	MM	bb	5.485
3	Total-hexafurans	35.20	1.462e3	1.026e3	1.155	1.43	1.24	14.5	YES	NO	dd	bb	0.502
4	123678-HxCDF	34.87	1.542e4	1.186e4	1.100	1.30	1.24	157.8	YES	NO	dd	db	4.918
5	123478-HxCDF	34.73	4.210e4	3.387e4	1.142	1.24	1.24	470.7	YES	NO	dd	dd	12.569
6	Total-hexafurans	34.56	2.055e4	1.595e4	1.155	1.29	1.24	233.2	YES	NO	bd	bd	7.364
7	Total-hexafurans	34.09	1.423e5	1.141e5	1.155	1.25	1.24	1591.1	YES	NO	bb	bb	51.719
8	Total-hexafurans	33.78	2.906e3	2.493e3	1.155	1.17	1.24	29.9	YES	NO	bb	bb	1.089
9	Total-hexafurans	33.27	1.283e5	1.032e5	1.155	1.24	1.24	1326.2	YES	NO	bb	db	46.688
10	123468-HxCDF	33.06	4.182e4	3.373e4	1.332	1.24	1.24	444.8	YES	NO	bb	bd	10.715

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.79	8.727e3	8.444e3	1.213	1.03	1.05	31.1	YES	NO	bb	bb	5.662
2	Total-heptafurans	39.24	3.932e5	3.705e5	1.211	1.06	1.05	1672.5	YES	NO	bb	bb	214.162
3	Total-heptafurans	38.99	3.801e3	3.182e3	1.211	1.19	1.05	13.2	YES	NO	bb	bb	1.958
4	1234678-HpCDF	38.59	2.012e5	1.936e5	1.210	1.04	1.05	859.8	YES	NO	bb	bb	96.341

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	23.91	4.281e3	5.310e3	1.034	0.81	0.77	23.8	YES	NO	dd	dd	0.961
2	Total-tetrafurans	23.77	2.943e4	3.624e4	1.034	0.81	0.77	170.4	YES	NO	dd	dd	6.576
3	Total-tetrafurans	23.63	2.514e4	3.117e4	1.034	0.81	0.77	156.5	YES	NO	dd	dd	5.639
4	Total-tetrafurans	23.53	2.959e4	3.674e4	1.034	0.81	0.77	184.3	YES	NO	dd	dd	6.643
5	Total-tetrafurans	23.37	7.108e3	8.623e3	1.034	0.82	0.77	59.1	YES	NO	dd	dd	1.575
6	Total-tetrafurans	23.29	6.482e4	7.902e4	1.034	0.82	0.77	378.4	YES	NO	dd	dd	14.404
7	Total-tetrafurans	23.19	1.723e5	2.185e5	1.034	0.79	0.77	825.6	YES	NO	dd	dd	39.135
8	Total-tetrafurans	23.01	5.886e4	7.364e4	1.034	0.80	0.77	318.7	YES	NO	dd	dd	13.269
9	Total-tetrafurans	22.88	2.302e4	2.938e4	1.034	0.78	0.77	120.2	YES	NO	bd	bd	5.247
10	Total-tetrafurans	22.30	2.361e4	3.144e4	1.034	0.75	0.77	154.2	YES	NO	db	db	5.513
11	1368-TCDF	22.05	8.857e3	1.264e4	1.201	0.70	0.77	55.4	YES	NO	bd	bd	1.854
12	Total-Furans	21.41	1.257e3	1.513e3	1.119	0.83	0.77	7.5	YES	NO	bb	bb	0.256
13	1289-TCDF	27.12	5.639e3	8.320e3	0.950	0.68	0.77	31.0	YES	NO	db	db	1.521
14	Total-tetrafurans	25.77	2.795e4	3.505e4	1.034	0.80	0.77	151.4	YES	NO	db	db	6.309
15	Total-tetrafurans	25.68	7.863e3	9.789e3	1.034	0.80	0.77	45.1	YES	NO	dd	dd	1.768
16	2378-TCDF	25.53	1.587e4	1.993e4	0.951	0.80	0.77	90.0	YES	NO	bd	bd	3.897
17	Total-tetrafurans	25.31	3.200e5	4.036e5	1.034	0.79	0.77	1530.3	YES	NO	bb	bb	72.463
18	Total-tetrafurans	25.04	2.258e4	2.849e4	1.034	0.79	0.77	117.9	YES	NO	bb	bb	5.114
19	Total-tetrafurans	24.84	2.070e4	2.562e4	1.034	0.81	0.77	116.4	YES	NO	bb	bb	4.638
20	Total-tetrafurans	24.62	2.459e4	3.197e4	1.034	0.77	0.77	134.5	YES	NO	bb	bb	5.665
21	Total-tetrafurans	24.43	4.602e4	5.742e4	1.034	0.80	0.77	254.0	YES	NO	db	db	10.358
22	Total-tetrafurans	24.28	1.402e4	1.598e4	1.034	0.88	0.77	94.2	YES	NO	dd	dd	3.004
23	Total-tetrafurans	24.21	8.099e4	1.032e5	1.034	0.78	0.77	398.6	YES	NO	dd	bd	18.445
24	Total-pentafurans	30.91	1.242e4	8.290e3	0.984	1.50	1.55	122.6	YES	NO	dd	dd	2.448
25	Total-pentafurans	30.80	4.319e4	2.646e4	0.984	1.63	1.55	418.2	YES	NO	bd	bd	8.237
26	Total-pentafurans	30.20	5.780e2	3.648e2	0.984	1.58	1.55	6.9	YES	NO	bb	bb	0.111
27	Total-pentafurans	30.03	8.610e3	5.257e3	0.984	1.64	1.55	83.4	YES	NO	db	db	1.640
28	Total-pentafurans	29.92	4.770e4	2.878e4	0.984	1.66	1.55	441.5	YES	NO	dd	bd	9.044
29	12378-PeCDF	29.73	1.367e4	8.494e3	0.963	1.61	1.55	121.8	YES	NO	bd	bb	2.681
30	Total-pentafurans	29.40	1.568e5	9.821e4	0.984	1.60	1.55	1364.8	YES	NO	bb	db	30.156
31	Total-pentafurans	29.21	6.997e3	4.935e3	0.984	1.42	1.55	91.9	YES	NO	bb	bd	1.411
32	Total-pentafurans	29.06	6.499e2	4.706e2	0.984	1.38	1.55	8.0	YES	NO	bb	bb	0.133
33	Total-pentafurans	28.78	1.538e5	9.967e4	0.984	1.54	1.55	1191.5	YES	NO	db	dd	29.971
34	Total-pentafurans	28.70	5.513e4	3.520e4	0.984	1.57	1.55	600.4	YES	NO	dd	dd	10.682
35	Total-pentafurans	28.57	1.125e5	7.178e4	0.984	1.57	1.55	864.6	YES	NO	dd	dd	21.793
36	Total-pentafurans	28.44	3.066e4	1.972e4	0.984	1.55	1.55	270.6	YES	NO	bd	dd	5.958
37	23478-PeCDF	31.06	6.907e4	4.571e4	1.072	1.51	1.55	609.8	YES	NO	db	db	12.444

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\2307311H.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:21:50 Pacific Daylight Time

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	123789-HxCDF	36.71	2.382e3	1.891e3	1.066	1.26	1.24	34.3	YES	NO	bb	bb	1.779
39	234678-HxCDF	35.78	1.550e4	1.304e4	1.138	1.19	1.24	104.5	YES	NO	MM	bb	5.485
40	Total-hexafurans	35.20	1.462e3	1.026e3	1.155	1.43	1.24	14.5	YES	NO	dd	bb	0.502
41	123678-HxCDF	34.87	1.542e4	1.186e4	1.100	1.30	1.24	157.8	YES	NO	dd	db	4.918
42	123478-HxCDF	34.73	4.210e4	3.387e4	1.142	1.24	1.24	470.7	YES	NO	dd	dd	12.569
43	Total-hexafurans	34.56	2.055e4	1.595e4	1.155	1.29	1.24	233.2	YES	NO	bd	bd	7.364
44	Total-hexafurans	34.09	1.423e5	1.141e5	1.155	1.25	1.24	1591.1	YES	NO	bb	bb	51.719
45	Total-hexafurans	33.78	2.906e3	2.493e3	1.155	1.17	1.24	29.9	YES	NO	bb	bb	1.089
46	Total-hexafurans	33.27	1.283e5	1.032e5	1.155	1.24	1.24	1326.2	YES	NO	bb	db	46.688
47	123468-HXCDF	33.06	4.182e4	3.373e4	1.332	1.24	1.24	444.8	YES	NO	bb	bd	10.715
48	1234789-HpCDF	40.79	8.727e3	8.444e3	1.213	1.03	1.05	31.1	YES	NO	bb	bb	5.662
49	Total-heptafurans	39.24	3.932e5	3.705e5	1.211	1.06	1.05	1672.5	YES	NO	bb	bb	214.162
50	Total-heptafurans	38.99	3.801e3	3.182e3	1.211	1.19	1.05	13.2	YES	NO	bb	bb	1.958
51	1234678-HpCDF	38.59	2.012e5	1.936e5	1.210	1.04	1.05	859.8	YES	NO	bb	bb	96.341
52	OCDF	44.95	3.874e5	4.244e5	1.391	0.91	0.89	2584.9	YES	NO	bd	bb	278.989
53	Total-penta1	27.02	1.235e5	8.103e4		1.52	1.55	1455.4	YES	NO	db	db	25.982

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.35	1.500e3	2.232e3	1.100	0.67	0.77	15.9	YES	NO	bb	bd	0.443
2	Total-tetradoxins	25.15	1.341e3	1.780e3	1.100	0.75	0.77	12.0	YES	NO	bb	bb	0.370
3	Total-tetradoxins	24.79	5.120e3	7.232e3	1.100	0.71	0.77	48.3	YES	NO	bb	db	1.466
4	Total-tetradoxins	24.50	3.385e3	4.566e3	1.100	0.74	0.77	27.0	YES	NO	bb	bd	0.943
5	Total-tetradoxins	24.31	1.342e3	1.743e3	1.100	0.77	0.77	13.3	YES	NO	bb	bb	0.366
6	Total-tetradoxins	23.57	6.479e3	8.240e3	1.100	0.79	0.77	65.5	YES	NO	bb	bd	1.746
7	1368-TCDD	23.30	7.428e3	8.788e3	1.148	0.85	0.77	79.4	YES	NO	bb	bb	1.843
8	Total-tetradoxins	26.68	2.468e4	3.226e4	1.100	0.76	0.77	263.1	YES	NO	bb	bb	6.756
9	Total-tetradoxins	25.80	3.746e3	4.278e3	1.100	0.88	0.77	26.1	YES	NO	bb	bb	0.952

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

Printed: Tuesday, August 01, 2023 08:21:50 Pacific Daylight Time

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk**PD**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	29.71	1.357e4	7.945e3	1.499	1.71	1.55	80.1	YES	NO	bb	bb	2.789
2	Total-pentadioxins	28.72	2.800e4	1.945e4	1.499	1.44	1.55	100.9	YES	NO	bb	db	6.153
3	12389-PECDD	31.72	3.650e3	2.500e3	1.326	1.46	1.55	20.1	YES	NO	bb	bb	0.902
4	12378-PeCDD	31.31	1.474e4	9.440e3	1.129	1.56	1.55	69.2	YES	NO	bb	bb	4.161
5	Total-pentadioxins	30.63	3.772e3	2.366e3	1.499	1.59	1.55	17.7	YES	NO	bb	bb	0.796
6	Total-pentadioxins	30.06	1.057e4	6.482e3	1.499	1.63	1.55	60.0	YES	NO	dd	dd	2.212

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.39	2.867e4	2.284e4	0.869	1.26	1.24	196.7	YES	NO	bb	bb	12.837
2	Total-hexadioxins	36.17	9.329e3	7.836e3	0.958	1.19	1.24	53.4	YES	NO	db	db	3.878
3	123678-HxCDD	36.00	4.358e4	3.659e4	0.944	1.19	1.24	301.3	YES	NO	dd	dd	18.299
4	123478-HxCDD	35.89	1.240e4	9.785e3	0.917	1.27	1.24	84.3	YES	NO	bd	bd	5.263
5	Total-hexadioxins	35.08	2.957e4	2.414e4	0.958	1.23	1.24	197.3	YES	NO	db	db	12.136
6	Total-hexadioxins	34.97	1.655e5	1.355e5	0.958	1.22	1.24	742.3	YES	NO	bd	bd	68.004
7	Total-hexadioxins	34.61	3.151e4	2.660e4	0.958	1.18	1.24	211.4	YES	NO	bb	bb	13.128
8	124679-HXCDD	33.83	1.757e5	1.453e5	1.104	1.21	1.24	1199.3	YES	NO	bb	bb	63.300

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.06	1.043e6	9.959e5	1.237	1.05	1.05	3944.3	YES	NO	bb	bb	601.591
2	1234679-HPCDD	39.04	2.530e6	2.438e6	1.554	1.04	1.05	10207.7	YES	NO	bb	bb	1166.1...

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, 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	25.35	1.500e3	2.232e3	1.100	0.67	0.77	15.9	YES	NO	bb	bd	0.443
2	Total-tetradoxins	25.15	1.341e3	1.780e3	1.100	0.75	0.77	12.0	YES	NO	bb	bb	0.370
3	Total-tetradoxins	24.79	5.120e3	7.232e3	1.100	0.71	0.77	48.3	YES	NO	bb	db	1.466
4	Total-tetradoxins	24.50	3.385e3	4.566e3	1.100	0.74	0.77	27.0	YES	NO	bb	bd	0.943
5	Total-tetradoxins	24.31	1.342e3	1.743e3	1.100	0.77	0.77	13.3	YES	NO	bb	bb	0.366
6	Total-tetradoxins	23.57	6.479e3	8.240e3	1.100	0.79	0.77	65.5	YES	NO	bb	bd	1.746
7	1368-TCDD	23.30	7.428e3	8.788e3	1.148	0.85	0.77	79.4	YES	NO	bb	bb	1.843
8	Total-tetradoxins	26.68	2.468e4	3.226e4	1.100	0.76	0.77	263.1	YES	NO	bb	bb	6.756
9	Total-tetradoxins	25.80	3.746e3	4.278e3	1.100	0.88	0.77	26.1	YES	NO	bb	bb	0.952
10	Total-pentadoxins	29.71	1.357e4	7.945e3	1.499	1.71	1.55	80.1	YES	NO	bb	bb	2.789
11	Total-pentadoxins	28.72	2.800e4	1.945e4	1.499	1.44	1.55	100.9	YES	NO	bb	db	6.153
12	12389-PECDD	31.72	3.650e3	2.500e3	1.326	1.46	1.55	20.1	YES	NO	bb	bb	0.902
13	12378-PeCDD	31.31	1.474e4	9.440e3	1.129	1.56	1.55	69.2	YES	NO	bb	bb	4.161
14	Total-pentadoxins	30.63	3.772e3	2.366e3	1.499	1.59	1.55	17.7	YES	NO	bb	bb	0.796
15	Total-pentadoxins	30.06	1.057e4	6.482e3	1.499	1.63	1.55	60.0	YES	NO	dd	dd	2.212
16	123789-HxCDD	36.39	2.867e4	2.284e4	0.869	1.26	1.24	196.7	YES	NO	bb	bb	12.837
17	Total-hexadoxins	36.17	9.329e3	7.836e3	0.958	1.19	1.24	53.4	YES	NO	db	db	3.878
18	123678-HxCDD	36.00	4.358e4	3.659e4	0.944	1.19	1.24	301.3	YES	NO	dd	dd	18.299
19	123478-HxCDD	35.89	1.240e4	9.785e3	0.917	1.27	1.24	84.3	YES	NO	bd	bd	5.263
20	Total-hexadoxins	35.08	2.957e4	2.414e4	0.958	1.23	1.24	197.3	YES	NO	db	db	12.136
21	Total-hexadoxins	34.97	1.655e5	1.355e5	0.958	1.22	1.24	742.3	YES	NO	bd	bd	68.004
22	Total-hexadoxins	34.61	3.151e4	2.660e4	0.958	1.18	1.24	211.4	YES	NO	bb	bb	13.128
23	124679-HXCDD	33.83	1.757e5	1.453e5	1.104	1.21	1.24	1199.3	YES	NO	bb	bb	63.300
24	1234678-HpCDD	40.06	1.043e6	9.959e5	1.237	1.05	1.05	3944.3	YES	NO	bb	bb	601.591
25	1234679-HPCDD	39.04	2.530e6	2.438e6	1.554	1.04	1.05	10207.7	YES	NO	bb	bb	1166.1...
26	OCDD	44.73	5.811e6	6.615e6	1.212	0.88	0.89	50163.2	YES	NO	bb	bb	4898.1...

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, 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	23.91	4.281e3	5.310e3	1.034	0.81	0.77	23.8	YES	NO	dd	dd	0.961
2	Total-tetrafurans	23.77	2.943e4	3.624e4	1.034	0.81	0.77	170.4	YES	NO	dd	dd	6.576
3	Total-tetrafurans	23.63	2.514e4	3.117e4	1.034	0.81	0.77	156.5	YES	NO	dd	dd	5.639
4	Total-tetrafurans	23.53	2.959e4	3.674e4	1.034	0.81	0.77	184.3	YES	NO	dd	dd	6.643
5	Total-tetrafurans	23.37	7.108e3	8.623e3	1.034	0.82	0.77	59.1	YES	NO	dd	dd	1.575
6	Total-tetrafurans	23.29	6.482e4	7.902e4	1.034	0.82	0.77	378.4	YES	NO	dd	dd	14.404
7	Total-tetrafurans	23.19	1.723e5	2.185e5	1.034	0.79	0.77	825.6	YES	NO	dd	dd	39.135
8	Total-tetrafurans	23.01	5.886e4	7.364e4	1.034	0.80	0.77	318.7	YES	NO	dd	dd	13.269
9	Total-tetrafurans	22.88	2.302e4	2.938e4	1.034	0.78	0.77	120.2	YES	NO	bd	bd	5.247
10	Total-tetrafurans	22.30	2.361e4	3.144e4	1.034	0.75	0.77	154.2	YES	NO	db	db	5.513
11	1368-TCDF	22.05	8.857e3	1.264e4	1.201	0.70	0.77	55.4	YES	NO	bd	bd	1.854
12	Total-Furans	21.41	1.257e3	1.513e3	1.119	0.83	0.77	7.5	YES	NO	bb	bb	0.256
13	1289-TCDF	27.12	5.639e3	8.320e3	0.950	0.68	0.77	31.0	YES	NO	db	db	1.521
14	Total-tetrafurans	25.77	2.795e4	3.505e4	1.034	0.80	0.77	151.4	YES	NO	db	db	6.309
15	Total-tetrafurans	25.68	7.863e3	9.789e3	1.034	0.80	0.77	45.1	YES	NO	dd	dd	1.768
16	2378-TCDF	25.53	1.587e4	1.993e4	0.951	0.80	0.77	90.0	YES	NO	bd	bd	3.897
17	Total-tetrafurans	25.31	3.200e5	4.036e5	1.034	0.79	0.77	1530.3	YES	NO	bb	bb	72.463
18	Total-tetrafurans	25.04	2.258e4	2.849e4	1.034	0.79	0.77	117.9	YES	NO	bb	bb	5.114
19	Total-tetrafurans	24.84	2.070e4	2.562e4	1.034	0.81	0.77	116.4	YES	NO	bb	bb	4.638
20	Total-tetrafurans	24.62	2.459e4	3.197e4	1.034	0.77	0.77	134.5	YES	NO	bb	bb	5.665
21	Total-tetrafurans	24.43	4.602e4	5.742e4	1.034	0.80	0.77	254.0	YES	NO	db	db	10.358
22	Total-tetrafurans	24.28	1.402e4	1.598e4	1.034	0.88	0.77	94.2	YES	NO	dd	dd	3.004
23	Total-tetrafurans	24.21	8.099e4	1.032e5	1.034	0.78	0.77	398.6	YES	NO	dd	bd	18.445
24	Total-pentafurans	30.91	1.242e4	8.290e3	0.984	1.50	1.55	122.6	YES	NO	dd	dd	2.448
25	Total-pentafurans	30.80	4.319e4	2.646e4	0.984	1.63	1.55	418.2	YES	NO	bd	bd	8.237
26	Total-pentafurans	30.20	5.780e2	3.648e2	0.984	1.58	1.55	6.9	YES	NO	bb	bb	0.111
27	Total-pentafurans	30.03	8.610e3	5.257e3	0.984	1.64	1.55	83.4	YES	NO	db	db	1.640
28	Total-pentafurans	29.92	4.770e4	2.878e4	0.984	1.66	1.55	441.5	YES	NO	dd	bd	9.044
29	12378-PeCDF	29.73	1.367e4	8.494e3	0.963	1.61	1.55	121.8	YES	NO	bd	bb	2.681
30	Total-pentafurans	29.40	1.568e5	9.821e4	0.984	1.60	1.55	1364.8	YES	NO	bb	db	30.156
31	Total-pentafurans	29.21	6.997e3	4.935e3	0.984	1.42	1.55	91.9	YES	NO	bb	bd	1.411
32	Total-pentafurans	29.06	6.499e2	4.706e2	0.984	1.38	1.55	8.0	YES	NO	bb	bb	0.133
33	Total-pentafurans	28.78	1.538e5	9.967e4	0.984	1.54	1.55	1191.5	YES	NO	db	dd	29.971
34	Total-pentafurans	28.70	5.513e4	3.520e4	0.984	1.57	1.55	600.4	YES	NO	dd	dd	10.682
35	Total-pentafurans	28.57	1.125e5	7.178e4	0.984	1.57	1.55	864.6	YES	NO	dd	dd	21.793
36	Total-pentafurans	28.44	3.066e4	1.972e4	0.984	1.55	1.55	270.6	YES	NO	bd	dd	5.958
37	23478-PeCDF	31.06	6.907e4	4.571e4	1.072	1.51	1.55	609.8	YES	NO	db	db	12.444

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, 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	36.71	2.382e3	1.891e3	1.066	1.26	1.24	34.3	YES	NO	bb	bb	1.779
39	234678-HxCDF	35.78	1.550e4	1.304e4	1.138	1.19	1.24	104.5	YES	NO	MM	bb	5.485
40	Total-hexafurans	35.20	1.462e3	1.026e3	1.155	1.43	1.24	14.5	YES	NO	dd	bb	0.502
41	123678-HxCDF	34.87	1.542e4	1.186e4	1.100	1.30	1.24	157.8	YES	NO	dd	db	4.918
42	123478-HxCDF	34.73	4.210e4	3.387e4	1.142	1.24	1.24	470.7	YES	NO	dd	dd	12.569
43	Total-hexafurans	34.56	2.055e4	1.595e4	1.155	1.29	1.24	233.2	YES	NO	bd	bd	7.364
44	Total-hexafurans	34.09	1.423e5	1.141e5	1.155	1.25	1.24	1591.1	YES	NO	bb	bb	51.719
45	Total-hexafurans	33.78	2.906e3	2.493e3	1.155	1.17	1.24	29.9	YES	NO	bb	bb	1.089
46	Total-hexafurans	33.27	1.283e5	1.032e5	1.155	1.24	1.24	1326.2	YES	NO	bb	db	46.688
47	123468-HXCDF	33.06	4.182e4	3.373e4	1.332	1.24	1.24	444.8	YES	NO	bb	bd	10.715
48	1234789-HpCDF	40.79	8.727e3	8.444e3	1.213	1.03	1.05	31.1	YES	NO	bb	bb	5.662
49	Total-heptafurans	39.24	3.932e5	3.705e5	1.211	1.06	1.05	1672.5	YES	NO	bb	bb	214.162
50	Total-heptafurans	38.99	3.801e3	3.182e3	1.211	1.19	1.05	13.2	YES	NO	bb	bb	1.958
51	1234678-HpCDF	38.59	2.012e5	1.936e5	1.210	1.04	1.05	859.8	YES	NO	bb	bb	96.341
52	OCDF	44.95	3.874e5	4.244e5	1.391	0.91	0.89	2584.9	YES	NO	bd	bb	278.989
53	Total-penta1	27.02	1.235e5	8.103e4		1.52	1.55	1455.4	YES	NO	db	db	25.982
54	Total-tetradiioxins	25.35	1.500e3	2.232e3	1.100	0.67	0.77	15.9	YES	NO	bb	bd	0.443
55	Total-tetradiioxins	25.15	1.341e3	1.780e3	1.100	0.75	0.77	12.0	YES	NO	bb	bb	0.370
56	Total-tetradiioxins	24.79	5.120e3	7.232e3	1.100	0.71	0.77	48.3	YES	NO	bb	db	1.466
57	Total-tetradiioxins	24.50	3.385e3	4.566e3	1.100	0.74	0.77	27.0	YES	NO	bb	bd	0.943
58	Total-tetradiioxins	24.31	1.342e3	1.743e3	1.100	0.77	0.77	13.3	YES	NO	bb	bb	0.366
59	Total-tetradiioxins	23.57	6.479e3	8.240e3	1.100	0.79	0.77	65.5	YES	NO	bb	bd	1.746
60	1368-TCDD	23.30	7.428e3	8.788e3	1.148	0.85	0.77	79.4	YES	NO	bb	bb	1.843
61	Total-tetradiioxins	26.68	2.468e4	3.226e4	1.100	0.76	0.77	263.1	YES	NO	bb	bb	6.756
62	Total-tetradiioxins	25.80	3.746e3	4.278e3	1.100	0.88	0.77	26.1	YES	NO	bb	bb	0.952
63	Total-pentadiioxins	29.71	1.357e4	7.945e3	1.499	1.71	1.55	80.1	YES	NO	bb	bb	2.789
64	Total-pentadiioxins	28.72	2.800e4	1.945e4	1.499	1.44	1.55	100.9	YES	NO	bb	db	6.153
65	12389-PECDD	31.72	3.650e3	2.500e3	1.326	1.46	1.55	20.1	YES	NO	bb	bb	0.902
66	12378-PeCDD	31.31	1.474e4	9.440e3	1.129	1.56	1.55	69.2	YES	NO	bb	bb	4.161
67	Total-pentadiioxins	30.63	3.772e3	2.366e3	1.499	1.59	1.55	17.7	YES	NO	bb	bb	0.796
68	Total-pentadiioxins	30.06	1.057e4	6.482e3	1.499	1.63	1.55	60.0	YES	NO	dd	dd	2.212
69	123789-HxCDD	36.39	2.867e4	2.284e4	0.869	1.26	1.24	196.7	YES	NO	bb	bb	12.837
70	Total-hexadiioxins	36.17	9.329e3	7.836e3	0.958	1.19	1.24	53.4	YES	NO	db	db	3.878
71	123678-HxCDD	36.00	4.358e4	3.659e4	0.944	1.19	1.24	301.3	YES	NO	dd	dd	18.299
72	123478-HxCDD	35.89	1.240e4	9.785e3	0.917	1.27	1.24	84.3	YES	NO	bd	bd	5.263
73	Total-hexadiioxins	35.08	2.957e4	2.414e4	0.958	1.23	1.24	197.3	YES	NO	db	db	12.136
74	Total-hexadiioxins	34.97	1.655e5	1.355e5	0.958	1.22	1.24	742.3	YES	NO	bd	bd	68.004

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
75	Total-hexadioxins	34.61	3.151e4	2.660e4	0.958	1.18	1.24	211.4	YES	NO	bb	bb	13.128
76	124679-HXCDD	33.83	1.757e5	1.453e5	1.104	1.21	1.24	1199.3	YES	NO	bb	bb	63.300
77	1234678-HpCDD	40.06	1.043e6	9.959e5	1.237	1.05	1.05	3944.3	YES	NO	bb	bb	601.591
78	1234679-HPCDD	39.04	2.530e6	2.438e6	1.554	1.04	1.05	10207.7	YES	NO	bb	bb	1166.1...
79	OCDD	44.73	5.811e6	6.615e6	1.212	0.88	0.89	50163.2	YES	NO	bb	bb	4898.1...

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 PFK	22.55	1.613e6					37.8	YES		dd		
2	FUNCTION1 PFK	22.40	1.361e6					40.0	YES		dd		
3	FUNCTION1 PFK	22.30	6.625e5					29.9	YES		dd		
4	FUNCTION1 PFK	22.21	1.141e6					36.1	YES		dd		
5	FUNCTION1 PFK	22.14	6.602e5					34.9	YES		dd		
6	FUNCTION1 PFK	21.99	3.411e6					44.3	YES		dd		
7	FUNCTION1 PFK	21.83	6.441e5					33.8	YES		dd		
8	FUNCTION1 PFK	21.73	2.133e6					45.3	YES		dd		
9	FUNCTION1 PFK	21.57	2.436e6					42.8	YES		dd		
10	FUNCTION1 PFK	21.37	1.676e6					48.8	YES		dd		
11	FUNCTION1 PFK	21.35	1.381e6					48.3	YES		dd		
12	FUNCTION1 PFK	21.16	2.312e6					42.3	YES		bd		
13	FUNCTION1 PFK	25.58	7.410e5					18.9	YES		db		
14	FUNCTION1 PFK	25.39	1.730e6					21.8	YES		bd		
15	FUNCTION1 PFK	25.11	2.236e5					13.7	YES		db		
16	FUNCTION1 PFK	24.91	1.685e6					27.4	YES		dd		
17	FUNCTION1 PFK	24.81	6.336e5					27.2	YES		dd		
18	FUNCTION1 PFK	24.73	7.467e5					27.1	YES		dd		
19	FUNCTION1 PFK	24.63	2.795e6					27.1	YES		dd		
20	FUNCTION1 PFK	24.35	5.099e5					26.9	YES		dd		
21	FUNCTION1 PFK	24.25	1.812e6					30.7	YES		dd		
22	FUNCTION1 PFK	24.08	5.528e5					21.5	YES		dd		
23	FUNCTION1 PFK	23.78	4.385e6					33.9	YES		dd		
24	FUNCTION1 PFK	23.54	1.598e6					34.0	YES		dd		
25	FUNCTION1 PFK	23.32	2.017e6					34.0	YES		dd		
26	FUNCTION1 PFK	23.09	2.392e6					38.0	YES		dd		
27	FUNCTION1 PFK	22.99	5.566e5					25.1	YES		dd		
28	FUNCTION1 PFK	22.75	3.065e6					36.7	YES		dd		
29	FUNCTION1 PFK	27.61	3.543e5					11.6	YES		db		
30	FUNCTION1 PFK	27.57	2.190e5					12.8	YES		bd		
31	FUNCTION1 PFK	27.38	3.426e5					12.4	YES		db		
32	FUNCTION1 PFK	27.31	2.551e5					10.6	YES		dd		
33	FUNCTION1 PFK	27.19	5.403e5					13.3	YES		bd		
34	FUNCTION1 PFK	26.99	9.374e5					23.5	YES		bb		
35	FUNCTION1 PFK	26.81	1.523e6					19.9	YES		bb		
36	FUNCTION1 PFK	26.11	2.558e5					7.3	YES		db		
37	FUNCTION1 PFK	25.87	6.229e5					12.1	YES		dd		

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	25.75	3.259e5					10.6	YES		bd		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.67	6.610e5					18.9	YES		db		0.000
2	FUNCTION2 PFK	29.40	4.132e5					27.5	YES		dd		0.000
3	FUNCTION2 PFK	29.30	1.340e5					19.3	YES		bd		0.000
4	FUNCTION2 PFK	28.97	3.813e5					22.0	YES		bb		0.000
5	FUNCTION2 PFK	27.90	8.127e4					7.7	YES		bb		0.000
6	FUNCTION2 PFK	32.42	2.795e5					9.8	YES		bb		0.000
7	FUNCTION2 PFK	31.98	2.545e5					15.4	YES		bb		0.000
8	FUNCTION2 PFK	31.43	8.757e5					5.7	YES		bb		0.000
9	FUNCTION2 PFK	30.85	3.483e4					4.9	YES		bb		0.000
10	FUNCTION2 PFK	30.48	1.939e5					8.4	YES		bb		0.000
11	FUNCTION2 PFK	30.26	2.706e5					13.2	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.05	3.253e5					20.1	YES		db		0.000
2	FUNCTION3 PFK	33.90	2.879e5					29.6	YES		dd		0.000
3	FUNCTION3 PFK	33.71	1.222e6					56.7	YES		bd		0.000
4	FUNCTION3 PFK	33.51	2.967e5					49.0	YES		db		0.000
5	FUNCTION3 PFK	33.47	5.131e5					51.9	YES		dd		0.000
6	FUNCTION3 PFK	33.38	5.806e5					50.0	YES		dd		0.000
7	FUNCTION3 PFK	33.24	4.590e5					36.3	YES		bd		0.000
8	FUNCTION3 PFK	33.05	4.698e5					30.3	YES		bb		0.000
9	FUNCTION3 PFK	32.70	2.414e5					29.2	YES		bb		0.000
10	FUNCTION3 PFK	37.03	8.436e5					32.9	YES		db		0.000
11	FUNCTION3 PFK	36.79	8.659e5					54.0	YES		bd		0.000
12	FUNCTION3 PFK	36.32	1.348e6					19.2	YES		bb		0.000
13	FUNCTION3 PFK	36.11	7.513e4					9.5	YES		bb		0.000
14	FUNCTION3 PFK	35.80	1.119e5					14.9	YES		db		0.000
15	FUNCTION3 PFK	35.71	1.945e5					16.0	YES		bd		0.000
16	FUNCTION3 PFK	34.54	3.999e4					7.8	YES		bb		0.000
17	FUNCTION3 PFK	34.30	9.662e4					8.5	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	38.33	1.577e5					9.6	YES		dd		
2	FUNCTION4 PFK	38.15	2.882e5					10.3	YES		bd		
3	FUNCTION4 PFK	37.99	2.100e5					13.1	YES		db		
4	FUNCTION4 PFK	37.88	2.406e5					13.5	YES		dd		
5	FUNCTION4 PFK	37.80	1.443e5					11.0	YES		dd		
6	FUNCTION4 PFK	37.71	9.137e4					8.4	YES		bd		
7	FUNCTION4 PFK	37.60	2.714e4					1.9	NO		bb		
8	FUNCTION4 PFK	40.93	5.647e5					26.7	YES		db		
9	FUNCTION4 PFK	40.89	2.994e5					27.8	YES		dd		
10	FUNCTION4 PFK	40.84	4.277e5					26.7	YES		dd		
11	FUNCTION4 PFK	40.70	5.391e5					27.1	YES		dd		
12	FUNCTION4 PFK	40.64	2.214e5					25.6	YES		dd		
13	FUNCTION4 PFK	40.57	5.994e5					27.6	YES		dd		
14	FUNCTION4 PFK	40.50	2.399e5					19.1	YES		dd		
15	FUNCTION4 PFK	40.26	7.946e5					26.4	YES		dd		
16	FUNCTION4 PFK	40.03	1.396e6					28.4	YES		dd		
17	FUNCTION4 PFK	39.90	4.629e5					27.0	YES		dd		
18	FUNCTION4 PFK	39.80	1.080e6					30.5	YES		dd		
19	FUNCTION4 PFK	39.60	2.707e5					23.1	YES		dd		
20	FUNCTION4 PFK	39.51	8.916e5					29.2	YES		bd		
21	FUNCTION4 PFK	39.24	5.057e5					22.8	YES		db		
22	FUNCTION4 PFK	39.08	6.328e5					17.4	YES		bd		
23	FUNCTION4 PFK	38.47	1.473e5					6.4	YES		db		
24	FUNCTION4 PFK	42.78	2.237e5					4.5	YES		bb		
25	FUNCTION4 PFK	42.50	3.604e5					17.1	YES		db		
26	FUNCTION4 PFK	42.35	3.449e5					18.4	YES		dd		
27	FUNCTION4 PFK	42.17	5.381e5					18.5	YES		dd		
28	FUNCTION4 PFK	42.04	5.060e5					20.5	YES		dd		
29	FUNCTION4 PFK	41.99	8.242e5					20.7	YES		dd		
30	FUNCTION4 PFK	41.77	2.697e5					17.1	YES		dd		
31	FUNCTION4 PFK	41.60	4.899e5					21.3	YES		dd		
32	FUNCTION4 PFK	41.43	7.429e5					23.1	YES		dd		
33	FUNCTION4 PFK	41.32	3.633e5					24.5	YES		dd		
34	FUNCTION4 PFK	41.25	7.525e5					25.8	YES		bd		

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	44.81	3.280e4					3.4	YES		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.17	1.036e2					1.7	NO		db		0.000
2	FUNCTION1 HXCD...	21.13	1.236e2					1.6	NO		bd		0.000
3	FUNCTION1 HXCD...	26.11	1.208e2					0.9	NO		bb		0.000
4	FUNCTION1 HXCD...	25.97	1.557e2					1.8	NO		db		0.000
5	FUNCTION1 HXCD...	25.87	4.022e2					6.5	YES		bd		0.000
6	FUNCTION1 HXCD...	25.51	1.925e2					3.2	YES		bb		0.000
7	FUNCTION1 HXCD...	24.93	1.010e2					1.1	NO		db		0.000
8	FUNCTION1 HXCD...	24.86	7.405e1					1.7	NO		dd		0.000
9	FUNCTION1 HXCD...	24.79	7.094e1					1.0	NO		bd		0.000
10	FUNCTION1 HXCD...	24.55	5.529e2					5.9	YES		bb		0.000
11	FUNCTION1 HXCD...	23.99	2.312e2					1.9	NO		db		0.000
12	FUNCTION1 HXCD...	23.80	3.663e2					3.6	YES		bd		0.000
13	FUNCTION1 HXCD...	23.51	4.767e2					6.0	YES		bb		0.000
14	FUNCTION1 HXCD...	23.18	7.663e1					0.7	NO		bb		0.000
15	FUNCTION1 HXCD...	22.20	1.715e2					1.9	NO		db		0.000
16	FUNCTION1 HXCD...	22.06	9.355e2					13.7	YES		dd		0.000
17	FUNCTION1 HXCD...	21.90	1.536e3					19.5	YES		bd		0.000
18	FUNCTION1 HXCD...	21.59	1.154e2					2.1	NO		bb		0.000
19	FUNCTION1 HXCD...	27.57	8.453e1					1.0	NO		bb		0.000
20	FUNCTION1 HXCD...	27.38	1.247e2					1.9	NO		bb		0.000
21	FUNCTION1 HXCD...	26.75	1.150e2					2.0	NO		bb		0.000
22	FUNCTION1 HXCD...	26.51	4.513e2					6.4	YES		bb		0.000

ETHERS2

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

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.32	1.124e2					3.3	YES		db		0.000
2	FUNCTION2 HPCD...	32.29	2.219e2					5.8	YES		bd		0.000
3	FUNCTION2 HPCD...	30.55	8.237e1					1.7	NO		bb		0.000
4	FUNCTION2 HPCD...	29.64	1.033e2					2.1	NO		bb		0.000
5	FUNCTION2 HPCD...	28.73	4.386e2					6.9	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	35.95	8.937e1					2.6	NO		bb		0.000
2	FUNCTION3 OCDPE	33.95	1.930e2					4.5	YES		bb		0.000
3	FUNCTION3 OCDPE	33.29	7.191e1					2.3	NO		bb		0.000
4	FUNCTION3 OCDPE	32.85	2.908e2					5.9	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	42.09	1.062e2					2.9	NO		bb		0.000
2	FUNCTION4 NCDPE	38.89	7.447e1					2.3	NO		bb		0.000
3	FUNCTION4 NCDPE	38.20	1.850e4					331.2	YES		bb		0.000

ETHERS6

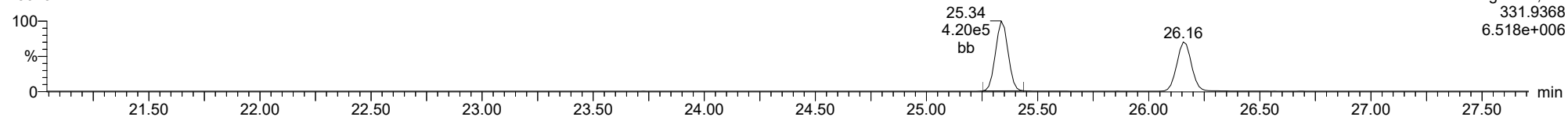
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.74	8.703e2					10.2	YES		bb		0.000
2	FUNCTION5 DCDPE	43.72	8.499e1					2.9	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: 23F0143-29, **Name:** 23073111, **Date:** 31-Jul-2023, **Time:** 20:19:47, **Conditions:** AUTOSPEC01, **User:** pk

13C-1234-TCDD

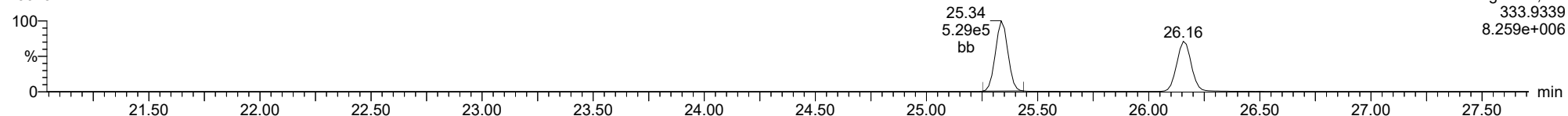
23073111



F1:Voltage SIR,El+
331.9368
6.518e+006

13C-1234-TCDD

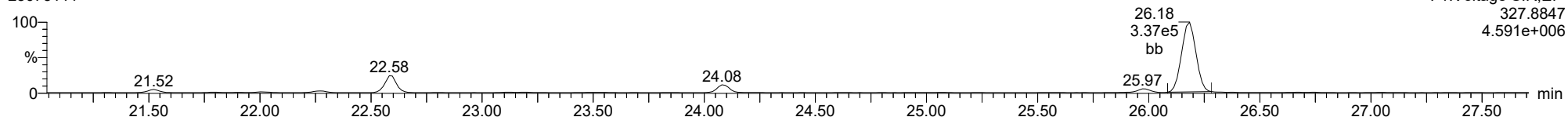
23073111



F1:Voltage SIR,El+
333.9339
8.259e+006

37CL-2378-TCDD

23073111

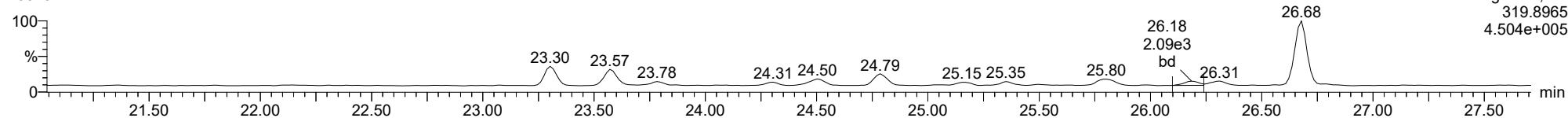


F1:Voltage SIR,El+
327.8847
4.591e+006

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

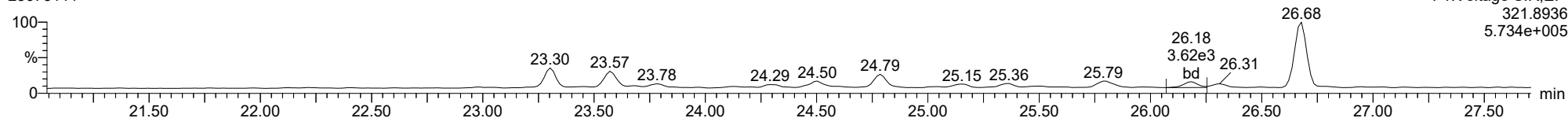
2378-TCDD

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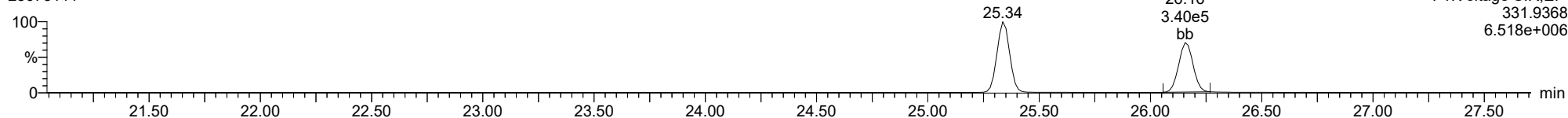
2378-TCDD

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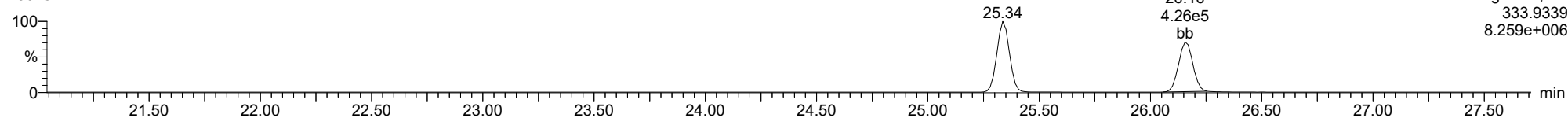
13C-2378-TCDD

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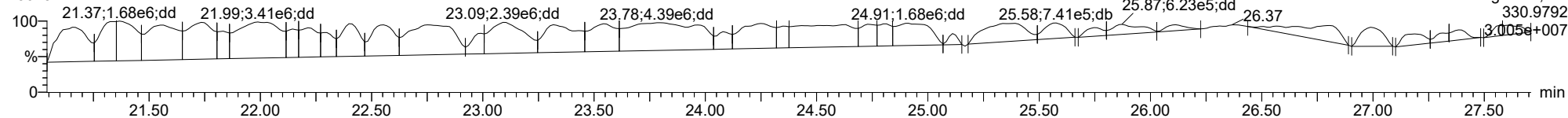
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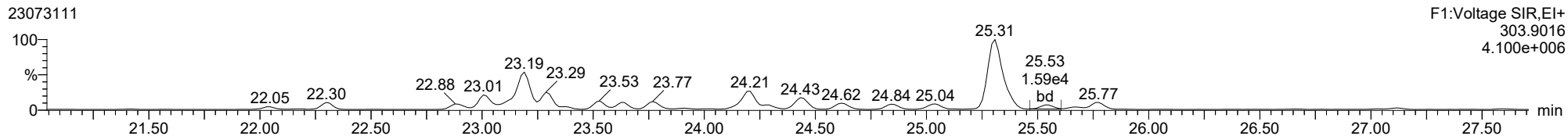
FUNCTION1 PFK

23073111

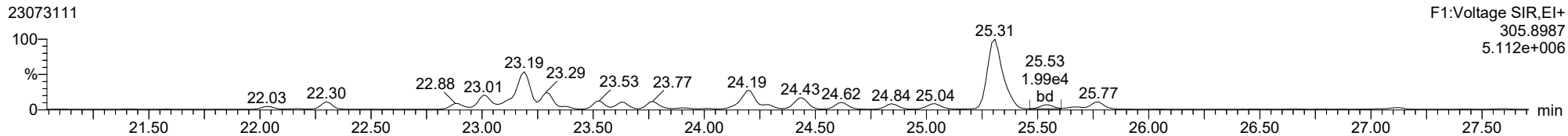


ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

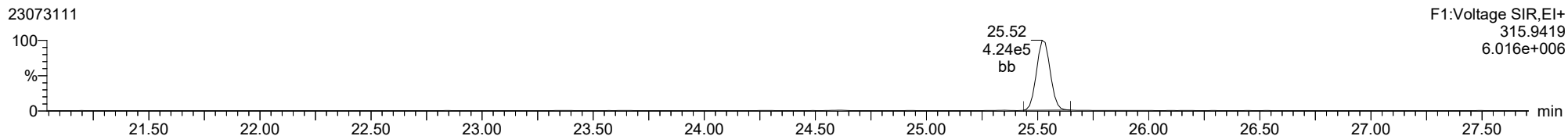
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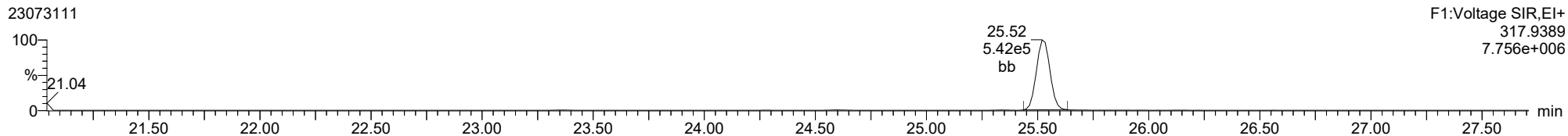
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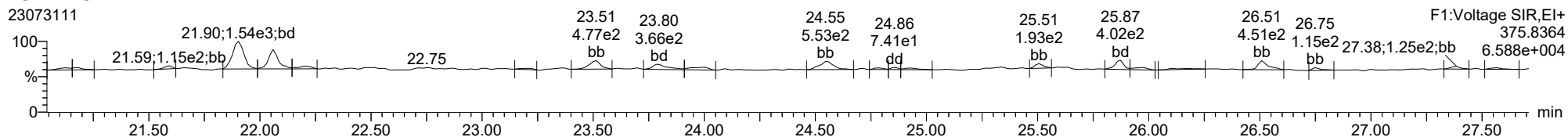
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13C-2378-TCDF

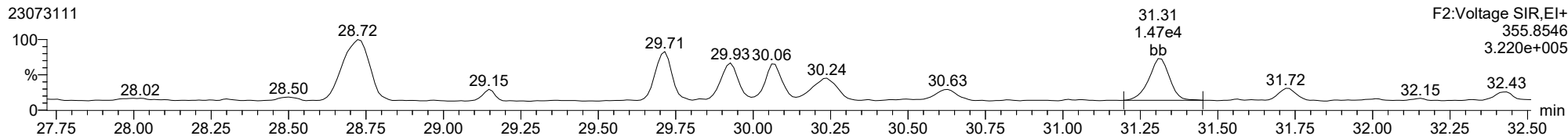


FUNCTION1 HXCDPE

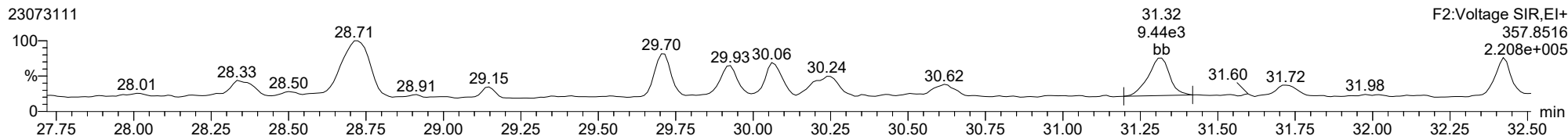


ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

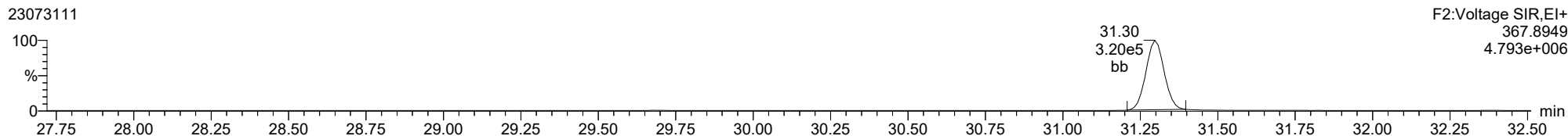
12378-PeCDD



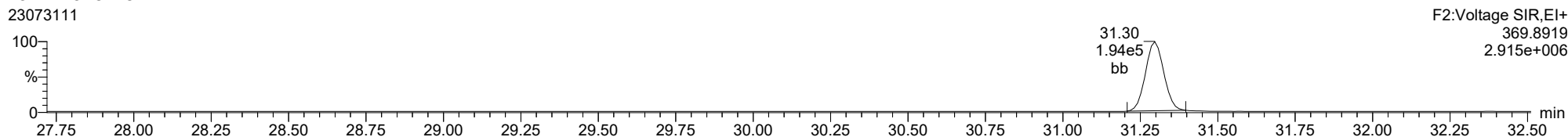
12378-PeCDD



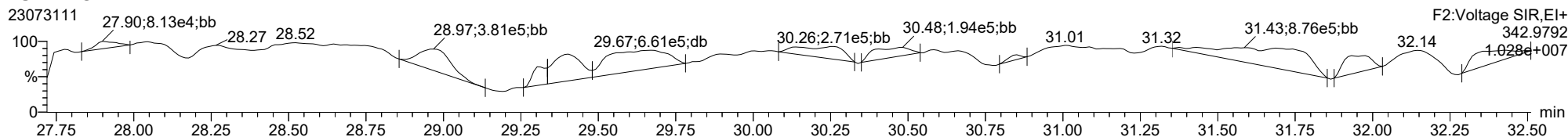
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13C-12378-PeCDD



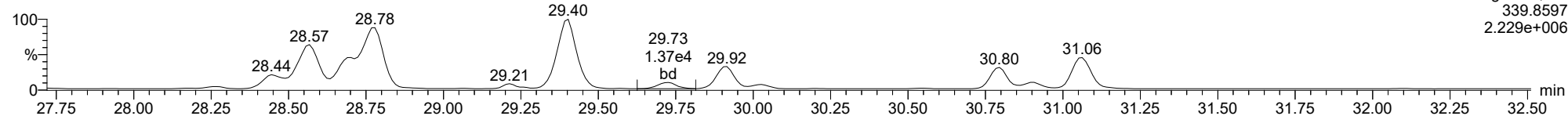
FUNCTION2 PFK



ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

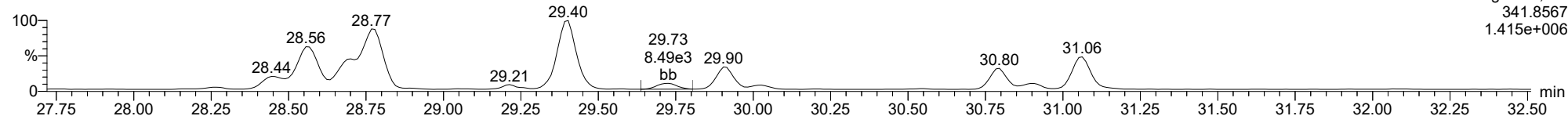
12378-PeCDF

23073111



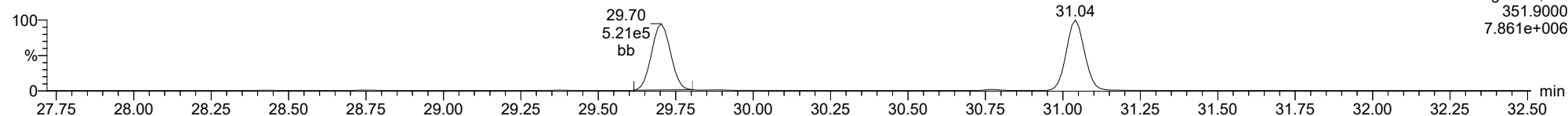
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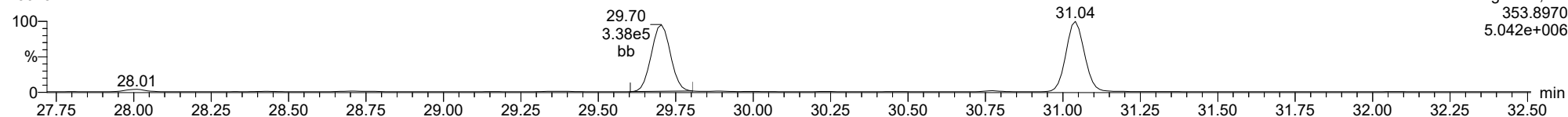
13C-12378-PeCDF

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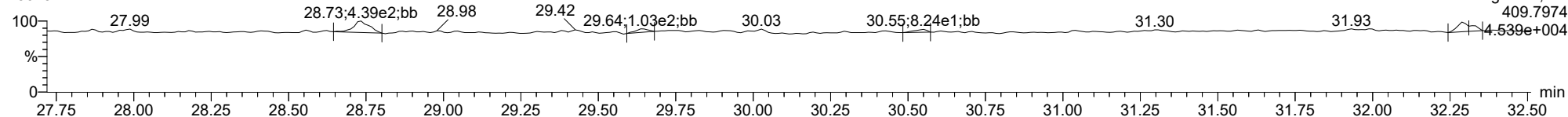
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FUNCTION2 HPCDPE

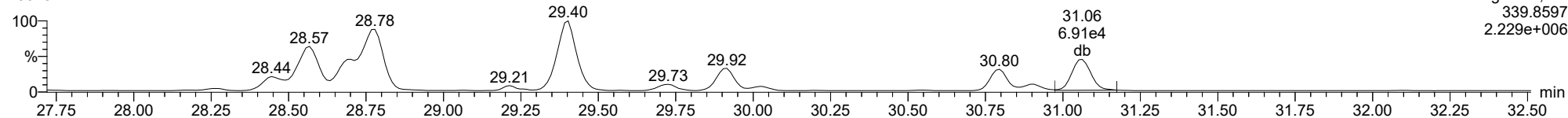
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

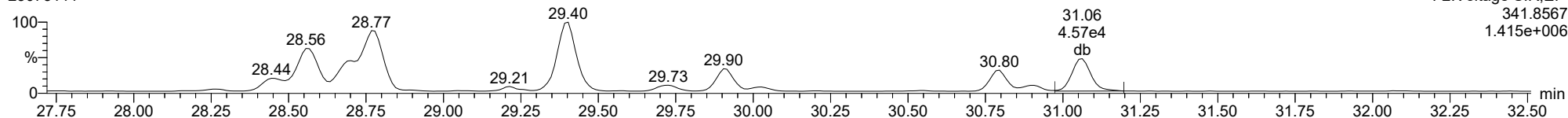
23478-PeCDF

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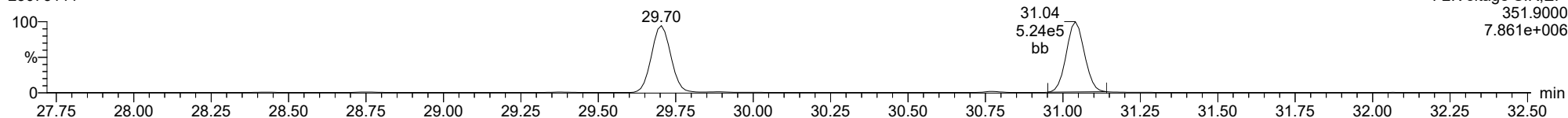
23478-PeCDF

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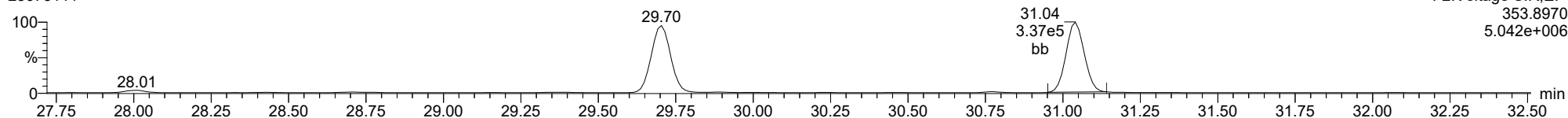
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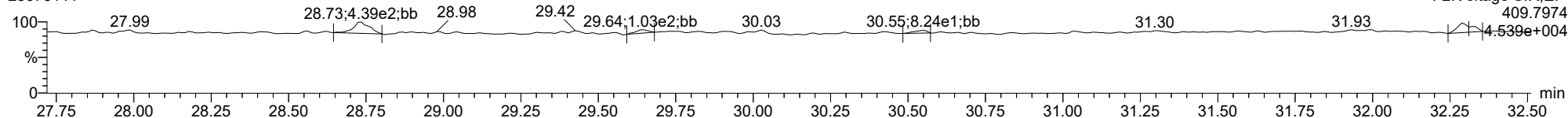
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FUNCTION2 HPCDPE

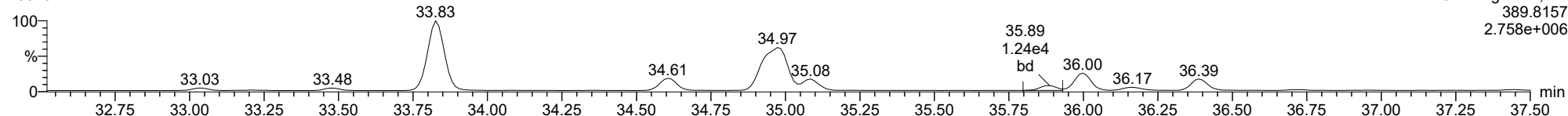
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

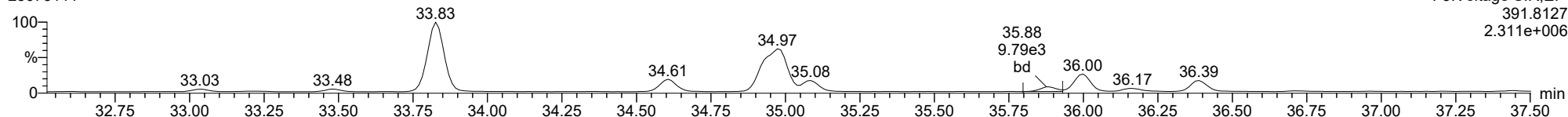
123478-HxCDD

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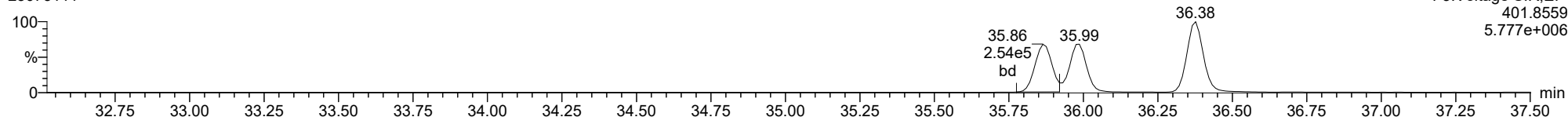
123478-HxCDD

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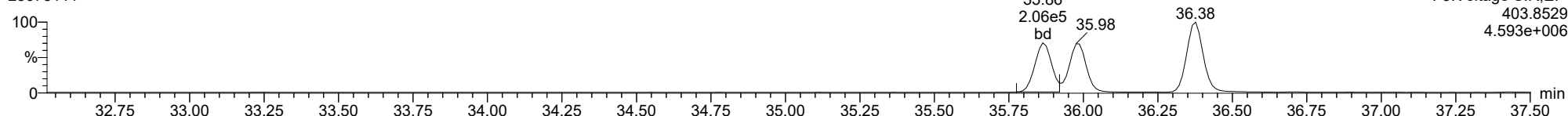
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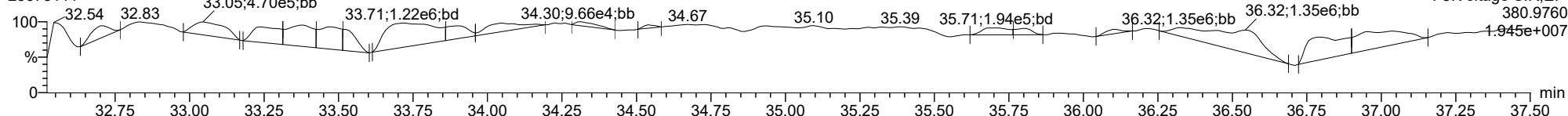
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FUNCTION3 PFK

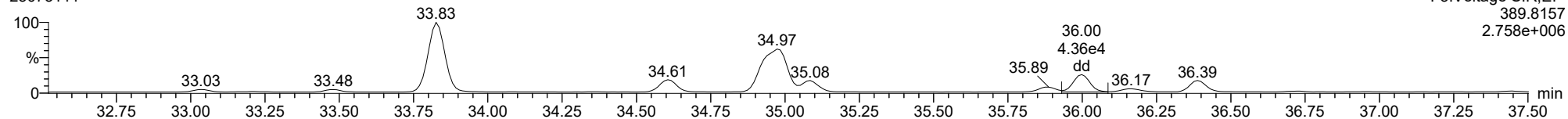
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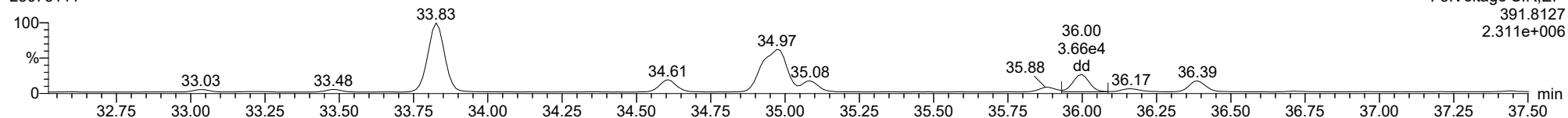
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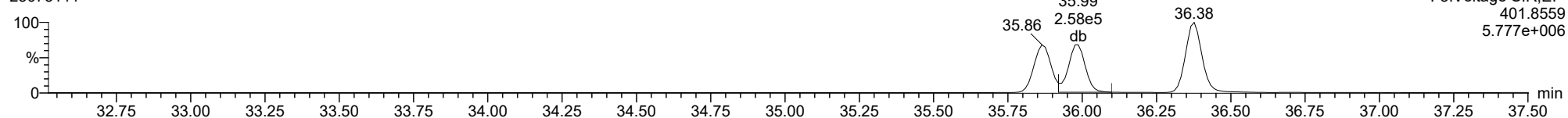
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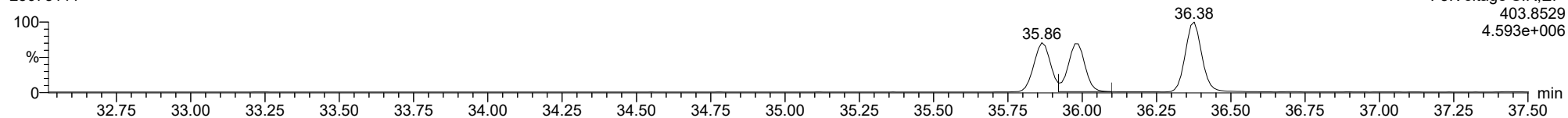
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13C-123678-HxCDD

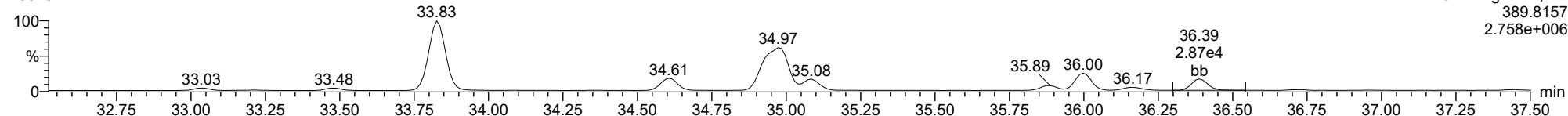
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

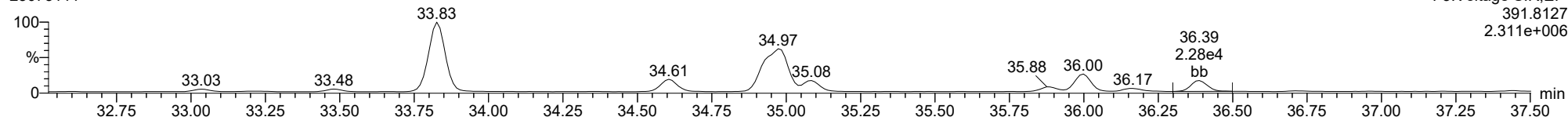
123789-HxCDD

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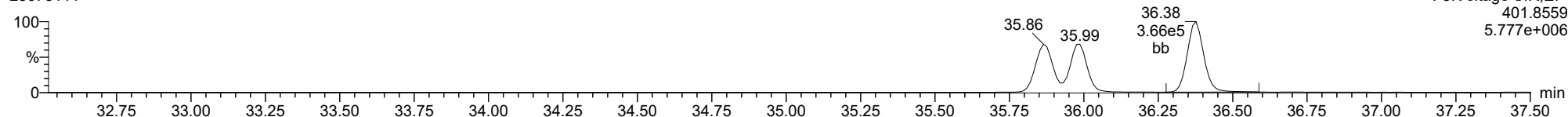
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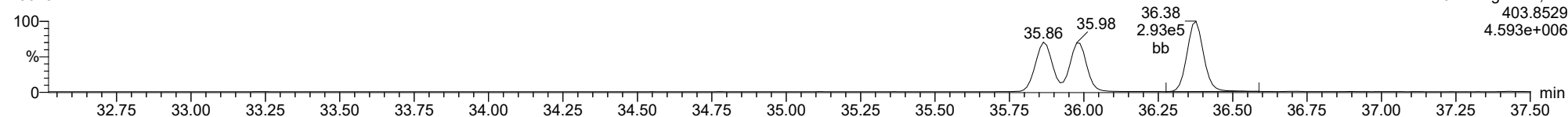
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13C-123789-HxCDD

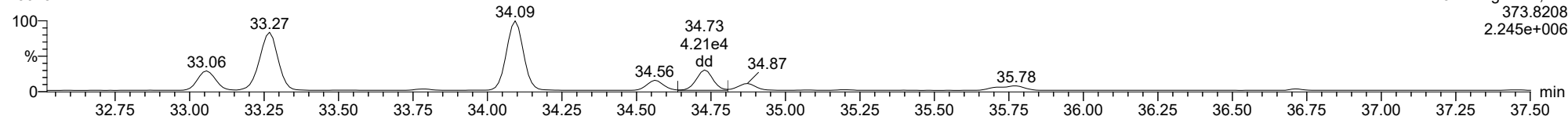
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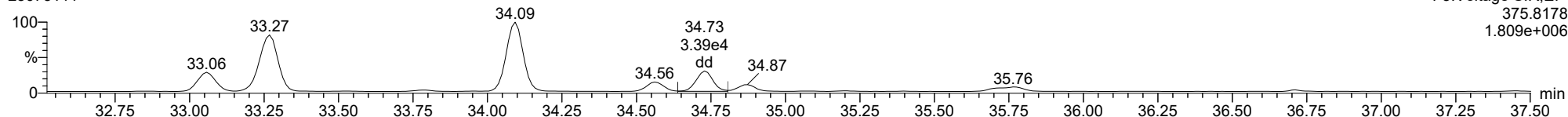
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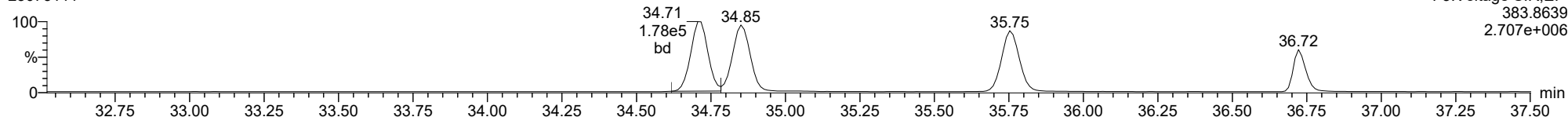
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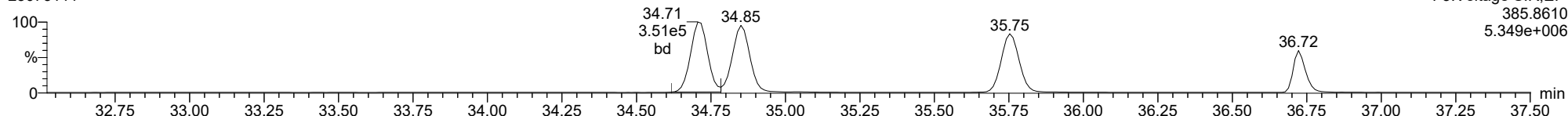
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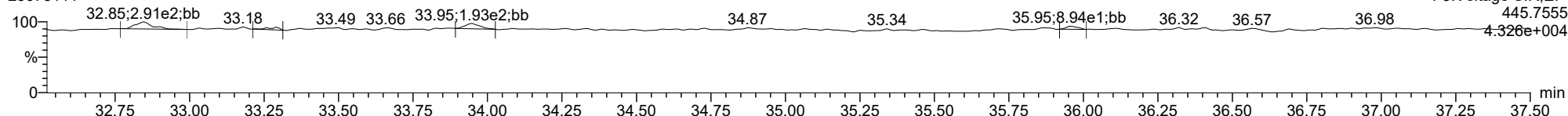
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FUNCTION3 OCDPE

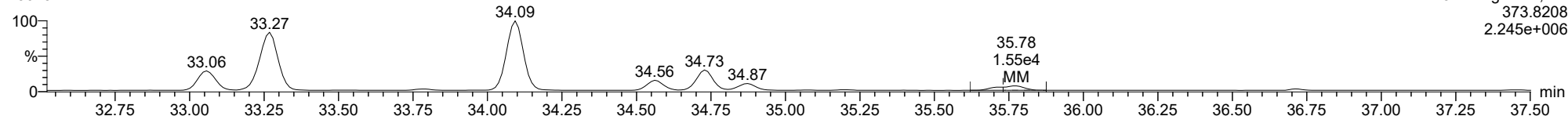
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

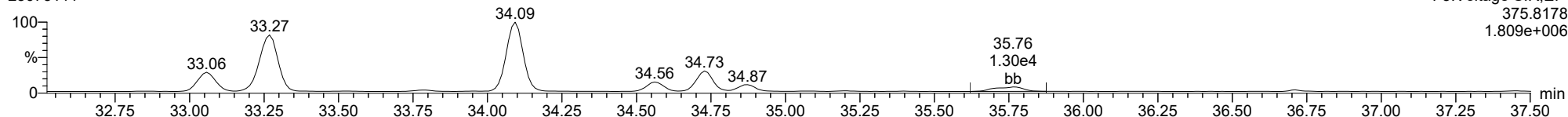
234678-HxCDF

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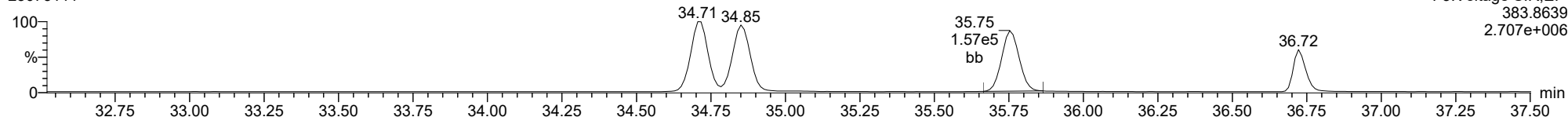
234678-HxCDF

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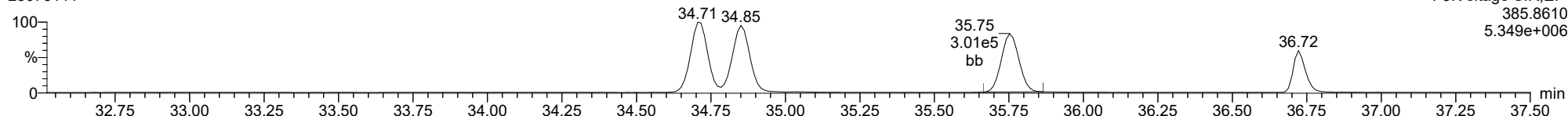
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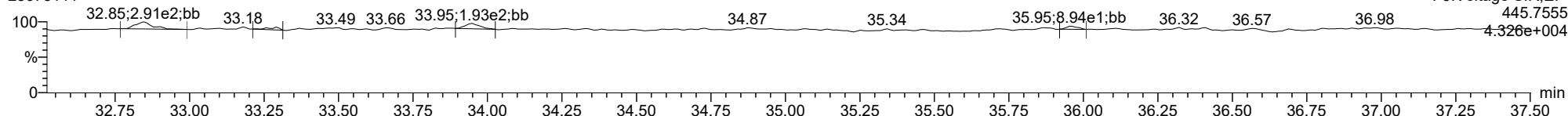
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FUNCTION3 OCDPE

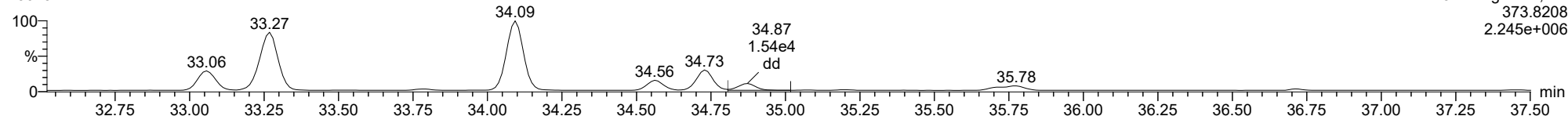
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

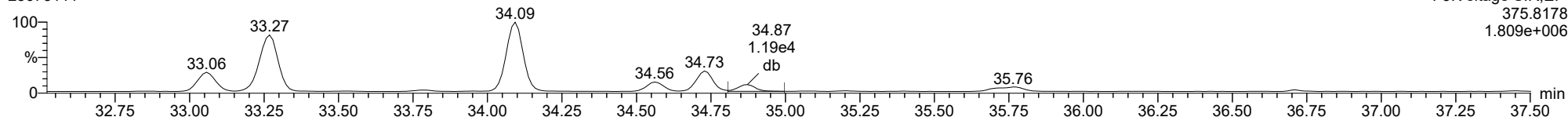
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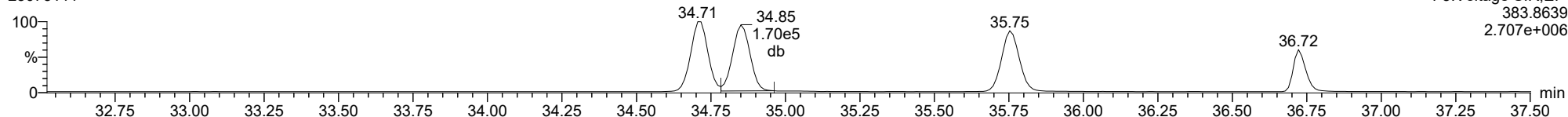
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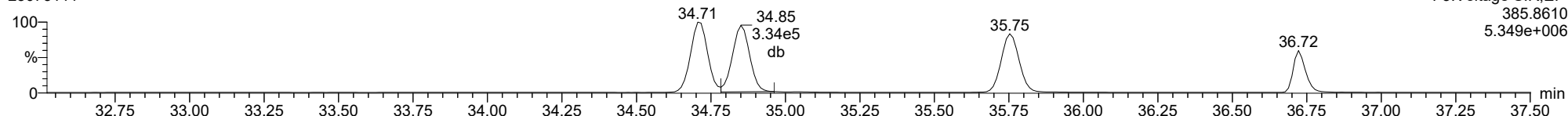
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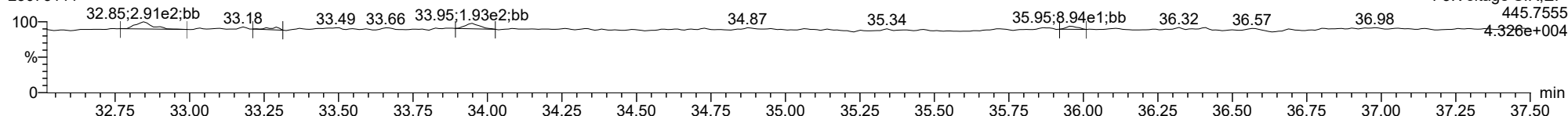
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FUNCTION3 OCDPE

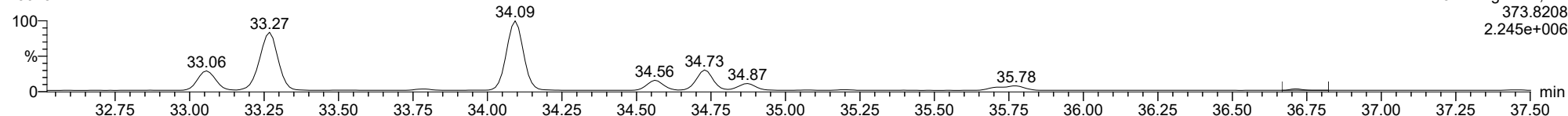
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

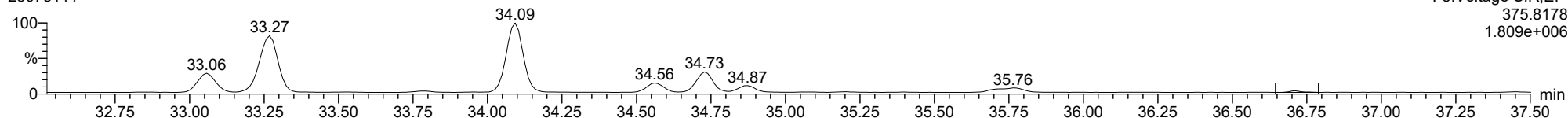
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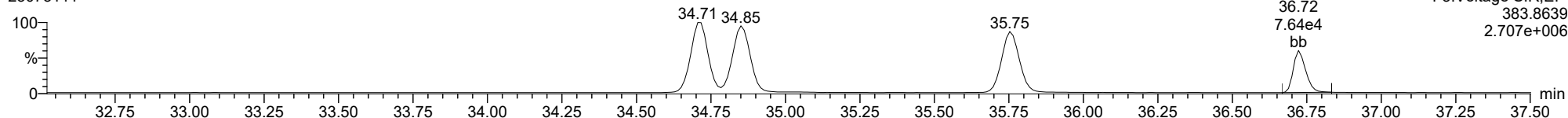
123789-HxCDF

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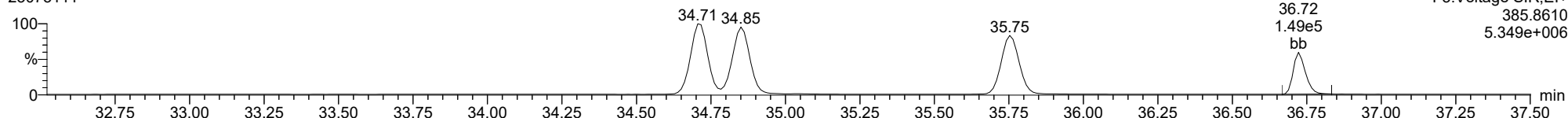
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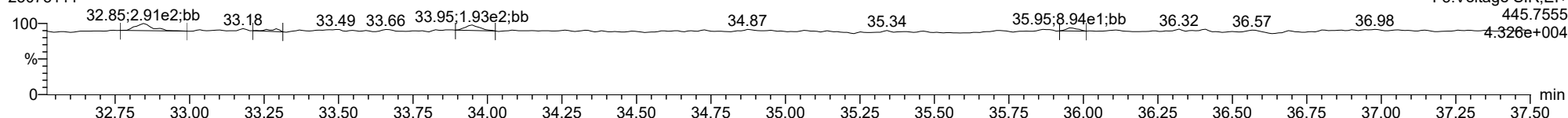
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FUNCTION3 OCDPE

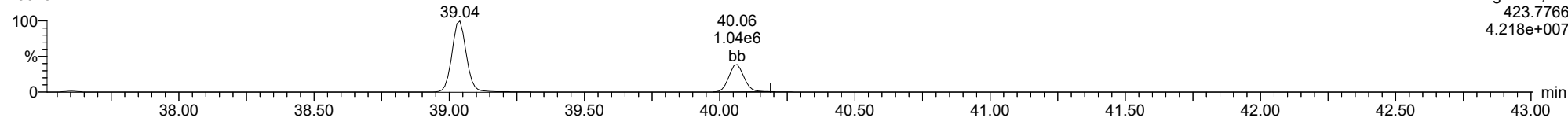
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

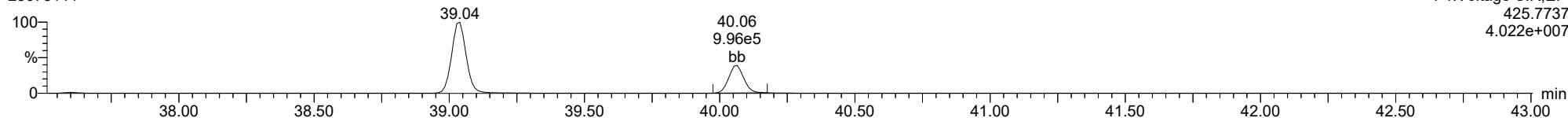
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F4:Voltage SIR,El+
423.7766
4.218e+007

1234678-HpCDD

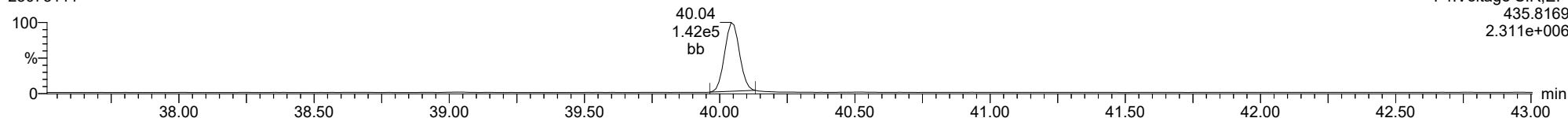
23073111



F4:Voltage SIR,El+
425.7737
4.022e+007

13C-1234678-HpCDD

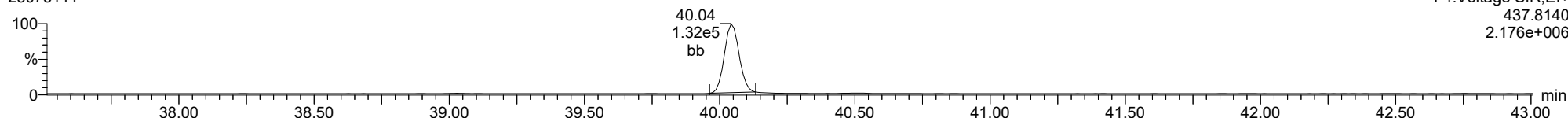
23073111



F4:Voltage SIR,El+
435.8169
2.311e+006

13C-1234678-HpCDD

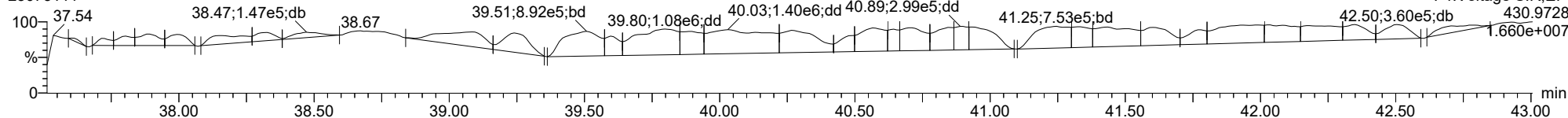
23073111



F4:Voltage SIR,El+
437.8140
2.176e+006

FUNCTION4 PFK

23073111

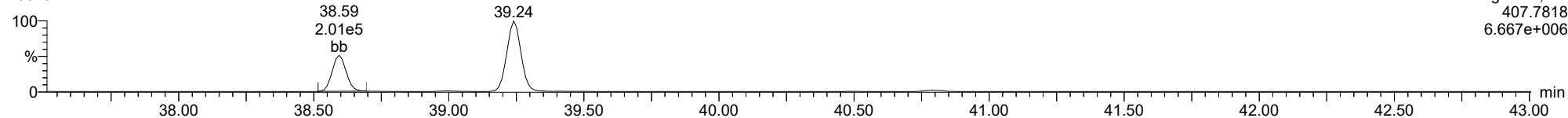


F4:Voltage SIR,El+
430.9728
1.660e+007

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

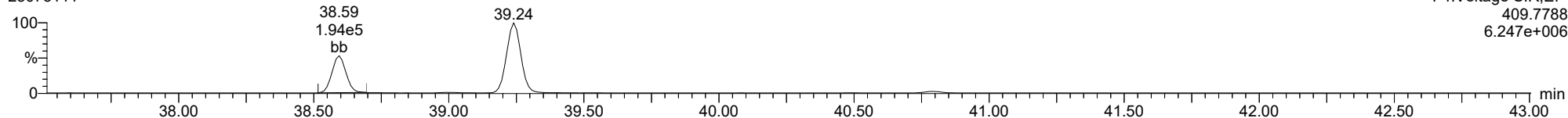
23073111



F4:Voltage SIR,El+
407.7818
6.667e+006

1234678-HpCDF

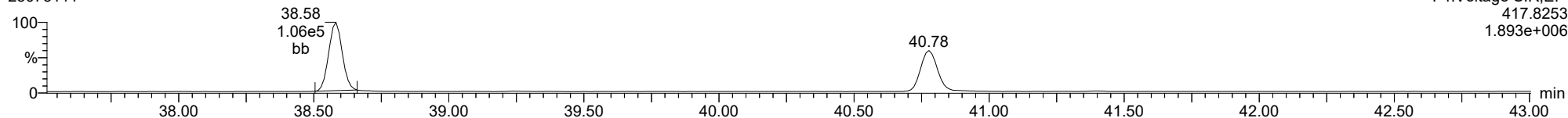
23073111



F4:Voltage SIR,El+
409.7788
6.247e+006

13C-1234678-HpCDF

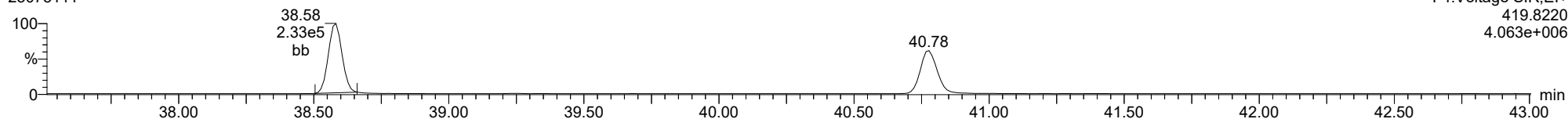
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F4:Voltage SIR,El+
417.8253
1.893e+006

13C-1234678-HpCDF

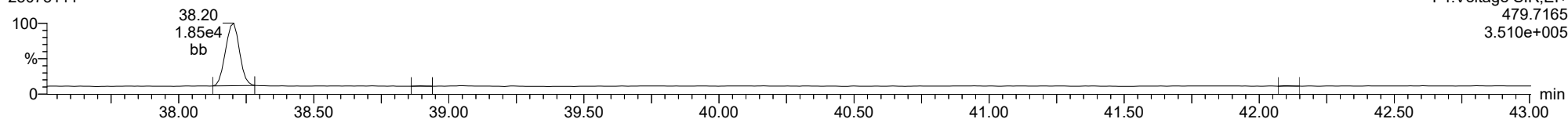
23073111



F4:Voltage SIR,El+
419.8220
4.063e+006

FUNCTION4 NCDPE

23073111

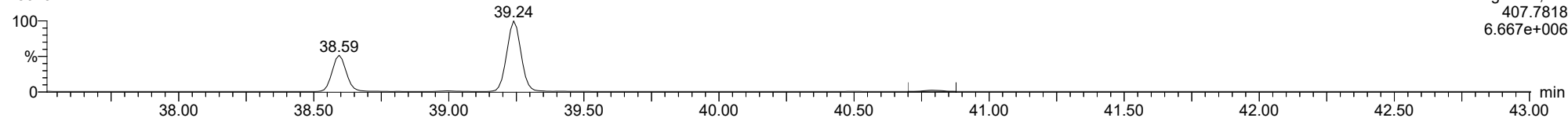


F4:Voltage SIR,El+
479.7165
3.510e+005

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

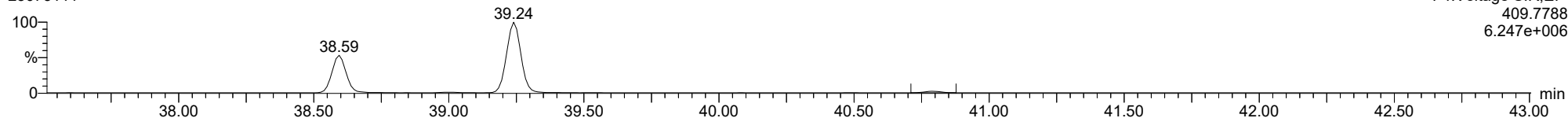
23073111



F4:Voltage SIR,EI+
407.7818
6.667e+006

1234789-HpCDF

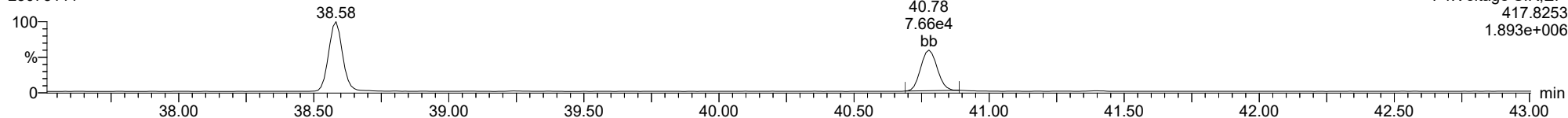
23073111



F4:Voltage SIR,EI+
409.7788
6.247e+006

13C-1234789-HpCDF

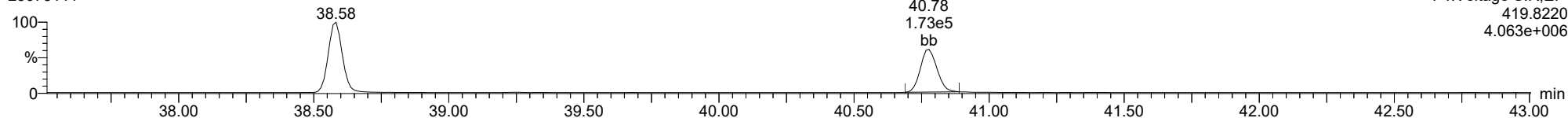
23073111



F4:Voltage SIR,EI+
417.8253
1.893e+006

13C-1234789-HpCDF

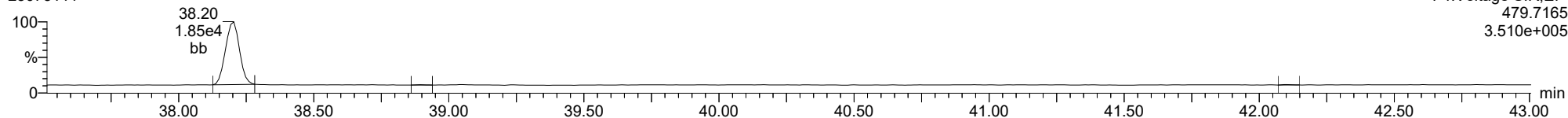
23073111



F4:Voltage SIR,EI+
419.8220
4.063e+006

FUNCTION4 NCDPE

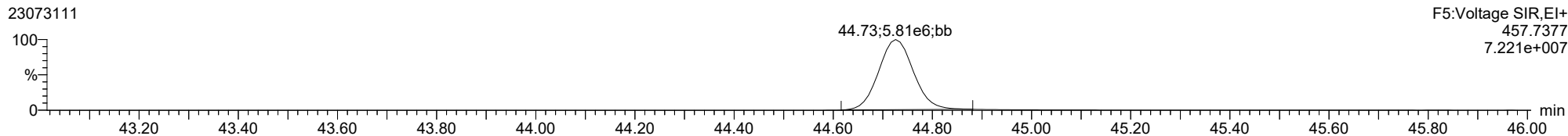
23073111



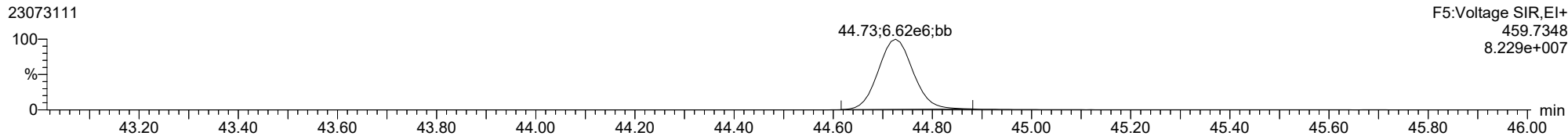
F4:Voltage SIR,EI+
479.7165
3.510e+005

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

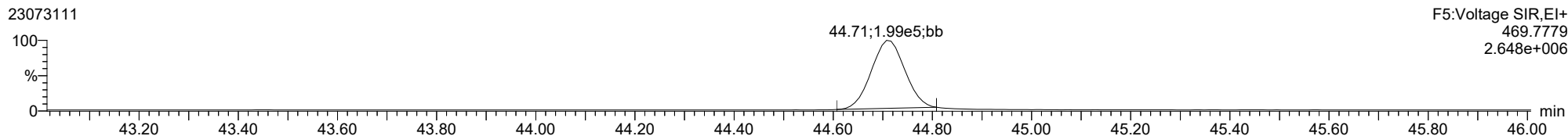
OCDD



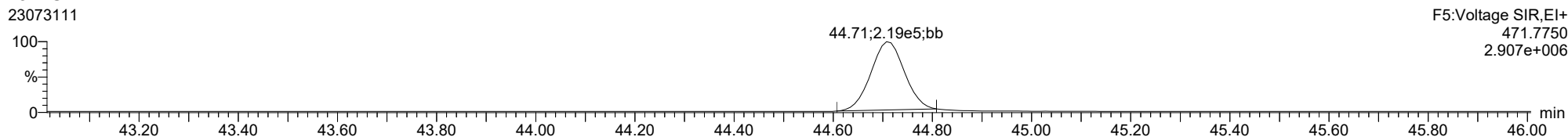
OCDD



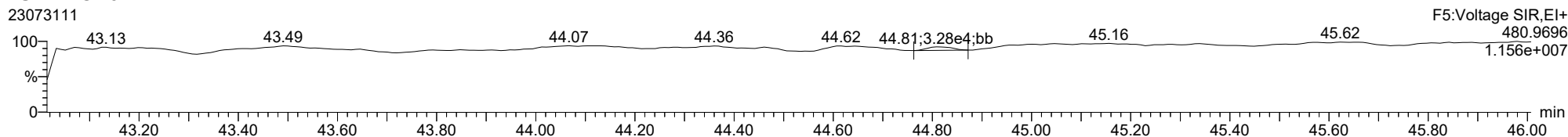
13C-OCDD



13C-OCDD



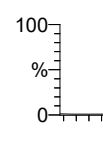
FUNCTION5 PFK



ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

OCDF

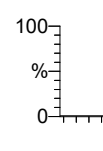
23073111



F5:Voltage SIR,EI+
441.7428
4.755e+006

OCDF

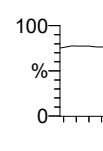
23073111



F5:Voltage SIR,EI+
443.7399
5.178e+006

FUNCTION5 DCDPE

23073111

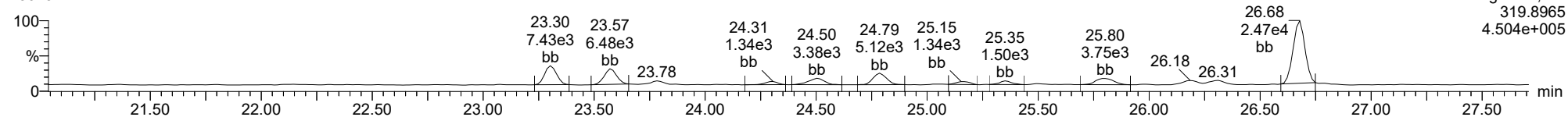


F5:Voltage SIR,EI+
45.89 513.6775
5.265e+004

ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

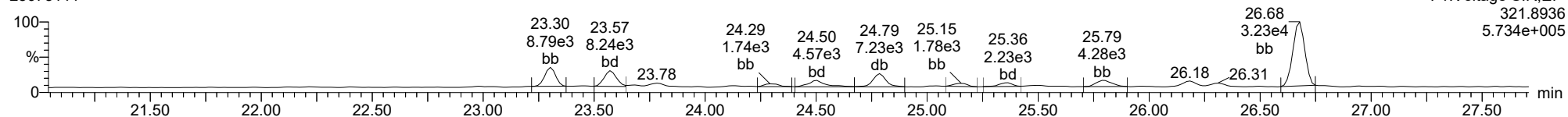
Total-tetradoxins

23073111



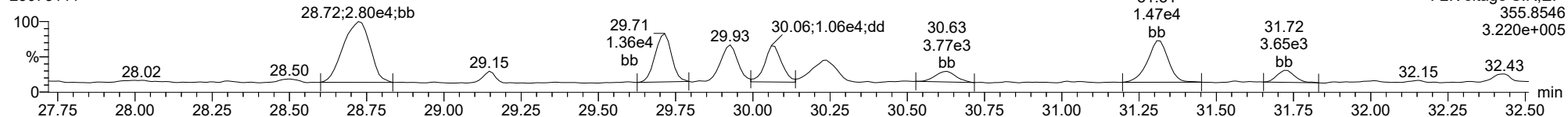
Total-tetradoxins

23073111



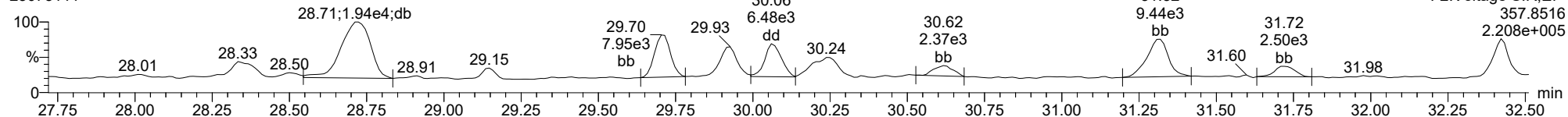
Total-pentadoxins

23073111



Total-pentadoxins

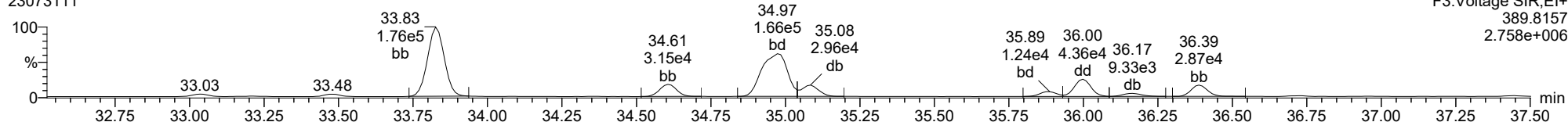
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ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

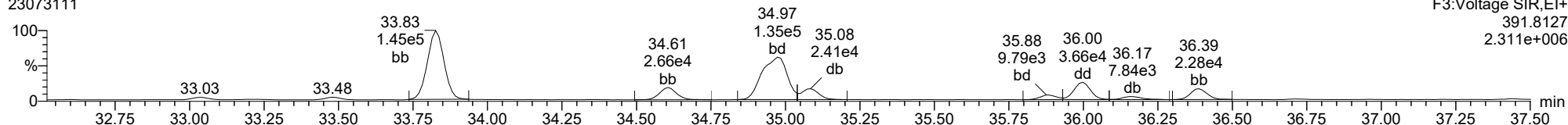
Total-hexadioxins

23073111



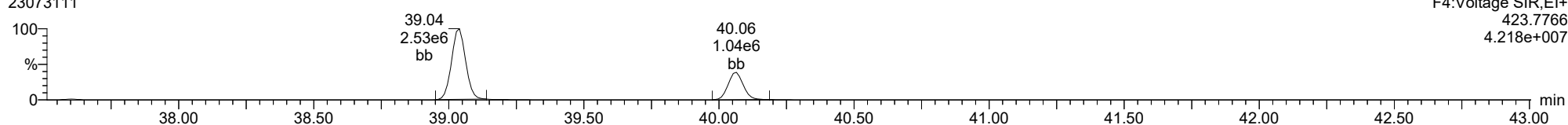
Total-hexadioxins

23073111



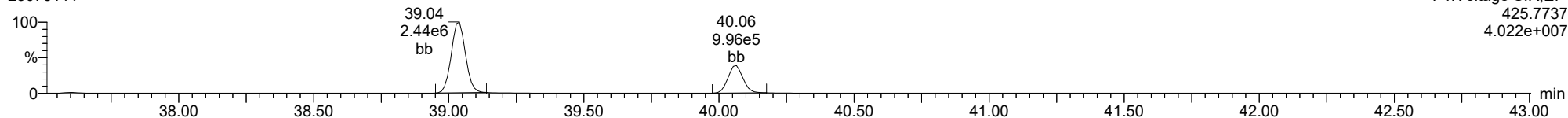
Total-heptadioxins

23073111



Total-heptadioxins

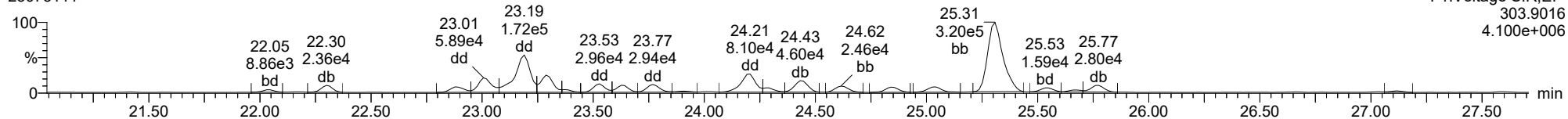
23073111



ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

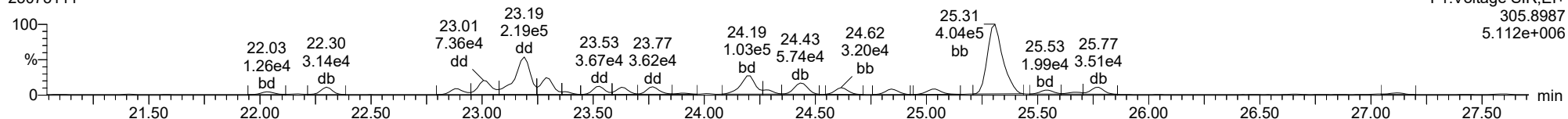
Total-tetrafurans

23073111



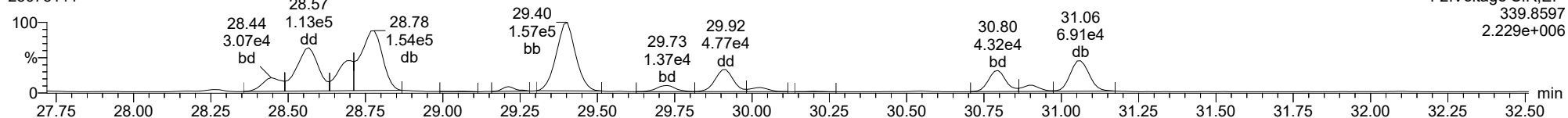
Total-tetrafurans

23073111



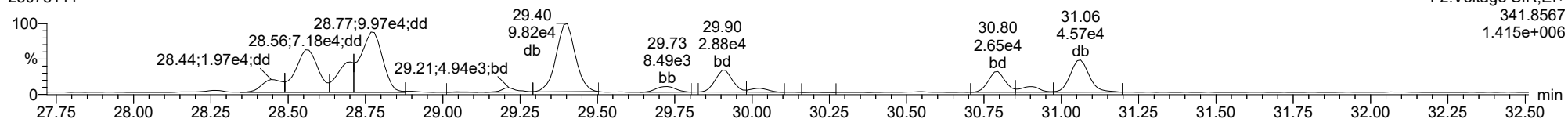
Total-pentafurans

23073111



Total-pentafurans

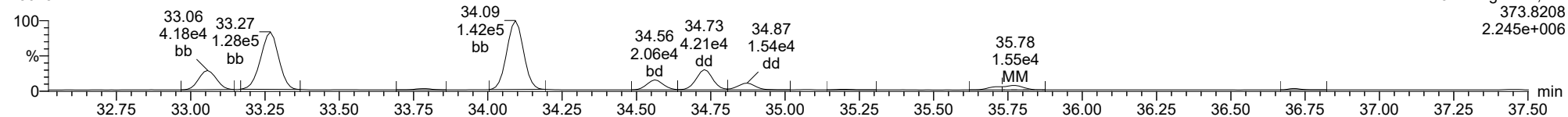
23073111



ID: 23F0143-29, Name: 23073111, Date: 31-Jul-2023, Time: 20:19:47, Conditions: AUTOSPEC01, User: pk

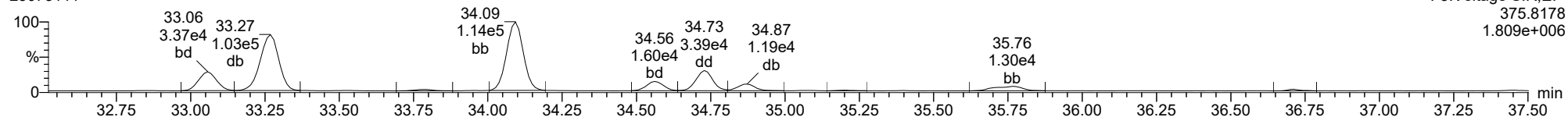
Total-hexafurans

23073111



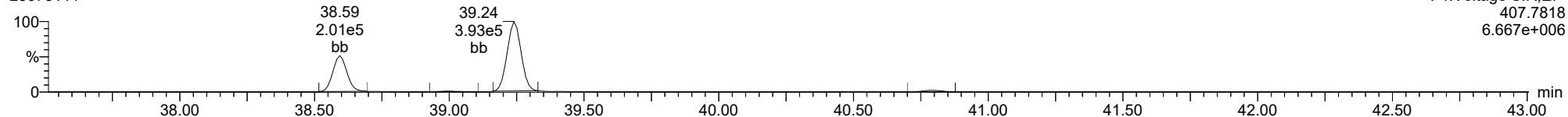
Total-hexafurans

23073111



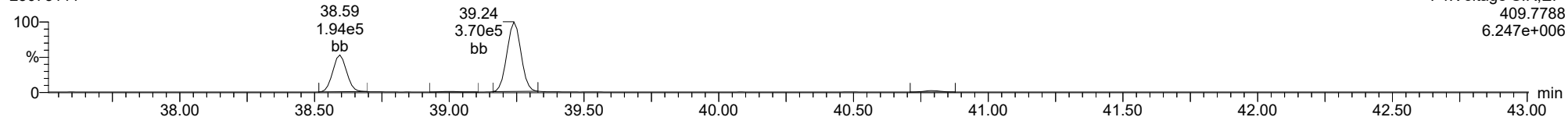
Total-heptafurans

23073111



Total-heptafurans

23073111





PREPARATION BATCH SUMMARY
EPA 1613B

Laboratory: Analytical Resources, LLC SDG: 23F0143
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
Batch: BLF0318 Batch Matrix: Solid Preparation: EPA 1613

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1226A	23F0143-02	23073108	06/14/23 12:00	
LDW23-SC1023A	23F0143-14	23073109	06/14/23 12:00	
LDW23-SC1162A	23F0143-24	23073110	06/14/23 12:00	
LDW23-SS1067	23F0143-29	23073111	06/14/23 12:00	
Blank	BLF0318-BLK2	23073104	06/14/23 12:00	Added 7/25/2023 by PK
LCS	BLF0318-BS2	23073105	06/14/23 12:00	Added 7/25/2023 by PK
LDW23-SC1226A	BLF0318-DUP1	23073107	06/14/23 12:00	
Reference	BLF0318-SRM1	23073106	06/14/23 12:00	



Analytical Resources, LLC
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A, 1613B or HRSM02.1

Batch: BLF0318

Solid Samples

ARI Work Orders: 23F0087, 23F0124, 23F0143

Matrix (circle one): Soil Sediment Oil Tissue

Extraction Method: Soxhlet SepF Shake out Start Date/Time: 6/14/23 12:00 End Date/Time: 6/15/23 05:18

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Glasswool		Kφ1φ624	M	6/16/23
Basic Silica		Lφφ5624	M	6/16/23
Acid Silica		Lφφ6286	M	6/16/23
Activated Florisil		Kφφ5956	M	6/16/23
Balance		24650344	M	6/14/23
Toluene		Lφφ3φ23	M	6/14/23
Hexane		Lφφ579φ	M	6/15/23 6/16/23
CH2Cl2		Lφφ5741	M	6/16/23
H2SO4		Lφφ1φ33	M	6/15/23
Na2SO4		Lφφ62φ1	M	6/14/23 6/15/23
Other (RM)		Lφφ4753	M	6/14/23
0% Silica		Lφφ2φ51 / Lφφ51φ7	M	6/14/23 6/15/23
Nonane		Hφφ6φ38	TW	6/19/23

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g) (Target Dry) Actual	RotoVap 45 °C	Water Trap Vol (mL)	Final Vol. (uL)
23F0087-01 A	DCEK3	100	(10.00) 10.00	1/2	0	20
23F0087-02 A	DCEK4	100	(10.00) 10.01	1/2	0	20
23F0124-01 A	DCEK5	73.16	(13.67) 13.69	1/2	3.7	20
23F0124-02 A	DCEK6	96.63	(10.35) 10.38	1/2	0.2	20
23F0124-03 A	DCEK7	83.94	(11.91) 11.94	1/2	2.4	20
23F0124-08 A	DCEL3	50.18	(19.93) 19.94	1/2	5.5	20
23F0143-02 B	LDW23-SC1226A	55.16	(18.13) 18.15	1/2	6.5	20
23F0143-02 B	LDW23-SC1226A	55.16	(18.13)	1/2		20
23F0143-14 B	LDW23-SC1023A	55.33	(18.07) 18.08	1/2	7.0	20
23F0143-24 B	LDW23-SC1162A	50.8	(19.69) 19.71	1/2	9.0	20
23F0143-29 B	LDW23-SS1067	50.94	(19.63) 19.66	1/2	8.9	20
BLF0318-BLK1	DBLK14	100	0	1/2	0	20
BLF0318-BS1	DLCS14	100	0	1/2	0	20
BLF0318-BSD1	DLCS14	100	0	1/2	0	20
BLF0318-DUP1	23F0143-02B Duplicate	55.16	(18.13) 18.15	1/2	7.6	20
BLF0318-SRM1	Reference	100	0	1/2	0.2	20

Prep Analyst / Date: M 6/14/23 M 6/15/23


Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	Lφφ5626	2/4 ng/mL	5/22/24	M	TW	6/14/23
OPR	1.0 mL	Lφφφφ46	0.2/1.0/2.0 ng/mL	1/31/24	M	TW	6/14/23
QES Standard	1.0 mL		0.1/0.05/0.1 ng/mL ng/n				
Clean-up Standard	1.0 mL	Lφφ5627	0.8 ng/mL	5/22/24	M	Mx2	6/16/23

Verify Client ID

Analyst / Date: M 6/14/23

Acid Clean Y N M 6/15/23

Silica-Florisil Clean Y N M 6/16/23

 7/24/23
Supervisor Review By Date

TOTAL SOLIDS BENCHSHEET						Batch:	BLF0144	
Method HRSM02.1						Date:		
(dry at 110 C)						Analyst:	TW	
Instrumentation						Drying Oven:	018	
						Analytical Balance:	24650344	
Batch drying time								
Record times as mm/dd/yy hh:mm			Oven Temp, C	TS (%) calculated as:			Oven Temps, °C	
Date/time in oven:	06/08/23	13:39	110	Final dry wt (g) = (Dry Wt - Tare Wt)			Start Temp:	110
Date/time out:	06/09/23	05:14		TS = (Final Dry Wt X 100) / (sample & dish - dish tare)			End Temp:	112
Elapsed hrs:	0.0							
SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted		
23F0124-01	0.79	11.67	8.75			No		
23F0124-02	0.80	11.20	14.85			No		
23F0124-03	0.83	11.23	7.56			No		
23F0124-08	0.77	11.91	6.36			No		

TOTAL SOLIDS BENCHSHEET						Batch:	BLF0144		
Method HRSM02.1						Date:	6/9/2023 5:10		
(dry at 110 C)						Analyst:	TW		
Instrumentation						Drying Oven:	0.18		
						Analytical Balance:	24650344		
Batch drying time									
Record times as mm/dd/yy hh:mm			Oven Temp, C	TS (%) calculated as:			Oven Temps, °C		
Date/time in oven:	6/8/2023 13:39		110	Final dry wt (g) = (Dry Wt - Tare Wt)			Start Temp:	110	
Date/time out:	6/9/2023 5:10		112	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)			End Temp:	112	
Elapsed hrs:	15.5								
SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted			
23F0124-01	0.7900	11.6700	8.7500	7.96	73.16%	No			
23F0124-02	0.8000	11.2000	10.8500	10.05	96.63%	No			
23F0124-03	0.8300	11.2300	9.5600	8.73	83.94%	No			
23F0124-08	0.7700	11.9100	6.3600	5.59	50.18%	No			



Extraction Parameter: Dioxin Extraction Batch BLF0318

Total Solids Batch: BLF0144 Work Order(s): 23F024

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 type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input checked="" type="checkbox"/> Clay/Clumps (Difficult to homogenize)= <u>124-01, 02, 03</u>	<u>TW 6/18/23</u>
<input type="checkbox"/> Rocks (%+size)?	
<input checked="" type="checkbox"/> Organics (Leaves/sticks/grass)= <u>01, 08 = roots</u>	<u>TW 6/18/23</u>
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input checked="" 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-Screen=	

TOTAL SOLIDS BENCHSHEET						Batch:	BLF0209
Method: PSEP 1986						Date:	
(dry at 103-105 C)						Analyst:	TW
Instrumentation						Drying Oven:	018
						Analytical Balance:	24650344
Batch drying time							
Record times as mm/dd/yy hh:mm				Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Date/time in oven:	06/08/23	13:39	110	Final dry wt (g) = (Dry Wt - Tare Wt)		Start Temp:	110
Date/time out:	08/09/23	05:00	112	TS = (Final Dry Wt X 100)/(sample & dish -dish tare)		End Temp:	112
Elapsed hrs:	0.0						
SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted	
23F0143-02 B	0.80	11.32	6.63			No Yes	
23F0143-14 ↓	0.79	11.58	6.76			No	
23F0143-24 ↓	0.79	11.42	6.19			No	
23F0143-29 ↓	0.80	11.42	6.21			No	

TOTAL SOLIDS BENCHSHEET						Batch:	BLF0209	
Method: PSEP 1986						Date:	6/9/2023 5:10	
(dry at 103-105 C)						Analyst:	TW	
Instrumentation						Drying Oven:	18	
						Analytical Balance:	24650344	
Batch drying time								
Record times as mm/dd/yy hh:mm			Oven Temp, C	TS (%) calculated as:		Oven Temps, °C		
Date/time in oven:	6/8/2023 13:39		110	Final dry wt (g) = (Dry Wt - Tare Wt)		Start Temp:	110	
Date/time out:	6/9/2023 5:10		112	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)		End Temp:	112	
Elapsed hrs:	15.5							
SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted		
23F0143-02	0.8600	11.3200	6.6300	5.77	55.16%	Yes		
23F0143-14	0.7900	11.5800	6.7600	5.97	55.33%	No		
23F0143-24	0.7900	11.4200	6.1900	5.40	50.80%	No		
23F0143-29	0.8000	11.4200	6.2100	5.41	50.94%	No		



Extraction Parameter: Dioxin Extraction Batch BLF0318

Total Solids Batch: BLF0209 Work Order(s): 23F0143

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>143-02</u>	<u>TW 6/8/23</u>
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input checked="" type="checkbox"/> Clay/Clumps (Difficult to homogenize)= <u>02, 14, 24, 29</u>	<u>TW 6/8/23</u>
<input type="checkbox"/> Rocks (%+size)?	
<input checked="" type="checkbox"/> Organics (Leaves/sticks/grass)= <u>29 = roots</u>	<u>TW 6/8/23</u>
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input checked="" 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-Screen=	



Batch ID: BLF0318 Work Order: 23F0087, 23F0124, 23F0143 Extraction Parameter: Dioxin ARI Analyst: NL

ARI Sample ID		300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
BLF0318 -	B1K1	79	94	---	46	17	38	137	64				4	4	A1
	B51	63	3	---	9	44	220	59	21				4	4	A2
	B5D1	68	95	---	38	8	222	171	18				4	4	A3
	Dupl	60	---	52	19	9	9	103	68				4	4	A5
	SRM1	18	9	---	40	28	44	115	24				4	4	A6
23F0087 -	01A	9	6	---	37	14	15	71	67				4	4	B1
	02A	17	59	---	52	38	3	36	55				4	4	B2
23F0124 -	01A	13	22	---	4	26	225	170	73				4	4	B3
	02A	24	16	---	259	82	121	167	82				4	4	B4
	03A	39	62	---	26	43	11	54	61				4	4	B5
	08A	19	---	66	14	30	224	24	39				4	4	B6
23F0143 -	02B	26	---	33	29	69	177	163	35				4	4	C1
	14B	83	---	68	32	22	30	49	54				4	4	C2
	24B	70	---	62	230	62	32	136	3				4	4	C3
	29B	34	---	23	43	122	50	50	19				4	4	C4
													4	4	C5
													4	4	
													4	4	
													4	4	
													4	4	
													4	4	
													4	4	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLF0170

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
LDW23-SC1162A	23F0143-24	23073110	06/15/2023	
LDW23-SC1226A	23F0143-02	23073108	06/15/2023	
LDW23-SS1067	23F0143-29	23073111	06/15/2023	
Blank	BLF0318-BLK2	23073104	06/15/2023	Added 7/25/2023 by PK
LCS	BLF0318-BS2	23073105	06/15/2023	Added 7/25/2023 by PK
Duplicate	BLF0318-DUP1	23073107	06/15/2023	
LDW23-SC1023A	23F0143-14	23073109	06/15/2023	
Reference	BLF0318-SRM1	23073106	06/15/2023	



CLEANUP BENCH SHEET

CLF0170

Matrix: Solid

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

Printed: 6/19/2023 2:13:55PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23F0087-01	A	DCEK3	A 01	20	20	HRSM02.x	6/15/2023	NPL	
23F0087-02	A	DCEK4	A 01	20	20	HRSM02.x	6/15/2023	NPL	
23F0124-01	A	DCEK5	A 01	20	20	HRSM02.x	6/15/2023	NPL	
23F0124-02	A	DCEK6	A 01	20	20	HRSM02.x	6/15/2023	NPL	
23F0124-03	A	DCEK7	A 01	20	20	HRSM02.x	6/15/2023	NPL	
23F0124-08	A	DCEL3	A 01	20	20	HRSM02.x	6/15/2023	NPL	
23F0143-02	B	LDW23-SC1226A	B 01	20	20	HRSM02.x	6/15/2023	NPL	
23F0143-02	B	LDW23-SC1226A	B 01	20	20	1613B Dioxin	6/15/2023	NPL	
23F0143-14	B	LDW23-SC1023A	B 01	20	20	1613B Dioxin	6/15/2023	NPL	
23F0143-24	B	LDW23-SC1162A	B 01	20	20	1613B Dioxin	6/15/2023	NPL	
23F0143-29	B	LDW23-SS1067	B 01	20	20	1613B Dioxin	6/15/2023	NPL	
BLF0318-BLK1	-	DBLK14	-	20	20	-	6/15/2023	NPL	
BLF0318-BS1	-	DLCS14	-	20	20	-	6/15/2023	NPL	
BLF0318-BSD1	-	DLCS14	-	20	20	-	6/15/2023	NPL	
BLF0318-DUP1	-	Duplicate	-	20	20	-	6/15/2023	NPL	
BLF0318-SRM1	-	Reference	-	20	20	-	6/15/2023	NPL	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLF0171

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
Blank	BLF0318-BLK2	23073104	06/16/2023	Added 7/25/2023 by PK
LDW23-SC1226A	23F0143-02	23073108	06/16/2023	
LDW23-SC1162A	23F0143-24	23073110	06/16/2023	
LDW23-SC1023A	23F0143-14	23073109	06/16/2023	
LDW23-SS1067	23F0143-29	23073111	06/16/2023	
Reference	BLF0318-SRM1	23073106	06/16/2023	
Duplicate	BLF0318-DUP1	23073107	06/16/2023	
LCS	BLF0318-BS2	23073105	06/16/2023	Added 7/25/2023 by PK



CLEANUP BENCH SHEET

CLF0171

Matrix: Solid

Cleanup using: HRGCMS - EPA 3630C Silica Gel Cleanup - uL

Printed: 6/19/2023 2:14:45PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23F0087-01	A	DCEK3	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0087-02	A	DCEK4	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0124-01	A	DCEK5	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0124-02	A	DCEK6	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0124-03	A	DCEK7	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0124-08	A	DCEL3	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0143-02	B	LDW23-SC1226A	B 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0143-02	B	LDW23-SC1226A	B 01	20	20	1613B Dioxin	6/16/2023	NPL	
23F0143-14	B	LDW23-SC1023A	B 01	20	20	1613B Dioxin	6/16/2023	NPL	
23F0143-24	B	LDW23-SC1162A	B 01	20	20	1613B Dioxin	6/16/2023	NPL	
23F0143-29	B	LDW23-SS1067	B 01	20	20	1613B Dioxin	6/16/2023	NPL	
BLF0318-BLK1	-	DBLK14	-	20	20	-	6/16/2023	NPL	
BLF0318-BS1	-	DLCS14	-	20	20	-	6/16/2023	NPL	
BLF0318-BSD1	-	DLCS14	-	20	20	-	6/16/2023	NPL	
BLF0318-DUP1	-	Duplicate	-	20	20	-	6/16/2023	NPL	
BLF0318-SRM1	-	Reference	-	20	20	-	6/16/2023	NPL	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Cleanup Batch: CLF0172

Cleanup Type: Florisil

Cleanup Method: EPA 3620B Florisil Cleanup (uL)

Analysis: EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1226A	23F0143-02	23073108	06/16/2023	
LCS	BLF0318-BS2	23073105	06/16/2023	Added 7/25/2023 by PK
Duplicate	BLF0318-DUP1	23073107	06/16/2023	
Blank	BLF0318-BLK2	23073104	06/16/2023	Added 7/25/2023 by PK
Reference	BLF0318-SRM1	23073106	06/16/2023	
LDW23-SS1067	23F0143-29	23073111	06/16/2023	
LDW23-SC1162A	23F0143-24	23073110	06/16/2023	
LDW23-SC1023A	23F0143-14	23073109	06/16/2023	



CLEANUP BENCH SHEET

CLF0172

Matrix: Solid

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

Check Standard: CKK0015-FLO1

Printed: 6/19/2023 2:15:46PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23F0087-01	A	DCEK3	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0087-02	A	DCEK4	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0124-01	A	DCEK5	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0124-02	A	DCEK6	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0124-03	A	DCEK7	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0124-08	A	DCEL3	A 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0143-02	B	LDW23-SC1226A	B 01	20	20	HRSM02.x	6/16/2023	NPL	
23F0143-02	B	LDW23-SC1226A	B 01	20	20	1613B Dioxin	6/16/2023	NPL	
23F0143-14	B	LDW23-SC1023A	B 01	20	20	1613B Dioxin	6/16/2023	NPL	
23F0143-24	B	LDW23-SC1162A	B 01	20	20	1613B Dioxin	6/16/2023	NPL	
23F0143-29	B	LDW23-SS1067	B 01	20	20	1613B Dioxin	6/16/2023	NPL	
BLF0318-BLK1	-	DBLK14	-	20	20	-	6/16/2023	NPL	
BLF0318-BS1	-	DLCS14	-	20	20	-	6/16/2023	NPL	
BLF0318-BSD1	-	DLCS14	-	20	20	-	6/16/2023	NPL	
BLF0318-DUP1	-	Duplicate	-	20	20	-	6/16/2023	NPL	
BLF0318-SRM1	-	Reference	-	20	20	-	6/16/2023	NPL	



Blank

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

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>23F0143</u>	
Client: <u>Anchor QEA, LLC</u>	Project: <u>AOC5 MR Phase 1</u>	
Matrix: <u>Solid</u>	Laboratory ID: <u>BLF0318-BLK2</u>	File ID: <u>23073104</u>
Sampled: <u>N/A</u>	Prepared: <u>06/14/23 12:00</u>	Analyzed: <u>07/31/23 14:37</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>SLG0303</u>	Calibration: <u>GG00074</u>
Batch: <u>BLF0318</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	0.084	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.099	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.121	1.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.120	1.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.133	1.00	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.108	1.00	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.103	1.00	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.111	1.00	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.150	1.00	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.168	1.00	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.155	1.00	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.173	1.00	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.844	0.893-1.208	0.119	1.00	0.485	ng/kg	EMPC, J
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.171	1.00	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.108	0.893-1.208	0.195	2.50	1.79	ng/kg	J
39001-02-0	OCDF	1	0.782	0.757-1.024	0.149	2.50	1.29	ng/kg	J
3268-87-9	OCDD	1	0.901	0.757-1.024	0.280	10.0	21.1	ng/kg	

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	0.0802	ng/kg	
34465-46-8	Total HxCDD	1	0.000			1.00	ND	ng/kg	
38998-75-3	Total HpCDF	1	0.000			1.00	0.992	ng/kg	
37871-00-4	Total HpCDD	1	0.000			1.00	3.45	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC):	0.029
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC):	0.218



Blank

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

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>BLF0318-BLK2</u>
Sampled:	<u>N/A</u>	Prepared:	<u>06/14/23 12:00</u>
Solids Wt%:	<u>0.00</u>	Preparation:	<u>EPA 1613</u>
Result Basis:	<u>Dry</u>	Sequence:	<u>SLG0303</u>
Batch:	<u>BLF0318</u>	Instrument:	<u>AUTOSPEC01</u>
		File ID:	<u>23073104</u>
		Analyzed:	<u>07/31/23 14:37</u>
		Initial/Final:	<u>10 g / 20 uL</u>
		Calibration:	<u>GG00074</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	0.784	0.655-0.886	0.09	72.8	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.793	0.655-0.886	0.24	85.4	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.540	1.318-1.783	0.28	86.0	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.516	1.318-1.783	0.30	82.0	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.640	1.318-1.783	0.22	90.5	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.509	0.434-0.587	0.46	82.7	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.513	0.434-0.587	0.38	79.0	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.513	0.434-0.587	0.46	79.5	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.525	0.434-0.587	0.54	74.8	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.264	1.054-1.426	0.37	92.5	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.250	1.054-1.426	0.31	90.6	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.452	0.374-0.506	0.36	78.1	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.438	0.374-0.506	0.48	80.5	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.042	0.893-1.208	0.39	100	23 - 140 %	
13C12-OCDD	1	0.898	0.757-1.024	0.69	118	17 - 157 %	
37Cl4-2,3,7,8-TCDD	1	328.000		0.06	87.6	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:06 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
 Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, 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					0.951		0.770	581	643								
12378-PeCDF					0.963		1.550	652	973								
23478-PeCDF					1.072		1.550	652	973								
123478-HxCDF					1.142		1.240	567	545								
234678-HxCDF					1.138		1.240	567	545								
123678-HxCDF					1.100		1.240	567	545								
123789-HxCDF					1.066		1.240	567	545								
1234678-HpCDF	38.483	1.001	4.388e2	5.198e2	1.210	0.844	1.050	559	686	7.91e3	7.88e3	14.2	11.5	YES	bb	bb	0.243
1234789-HpCDF					1.213		1.050	559	686								
OCDF	44.819	1.006	1.017e3	1.300e3	1.391	0.782	0.890	502	607	1.35e4	1.67e4	26.8	27.5	NO	MM	bb	0.645
2378-TCDD					1.197		0.770	716	555								
12378-PeCDD					1.129		1.550	604	560								
123478-HxCDD					0.917		1.240	722	695								
123678-HxCDD					0.944		1.240	722	695								
123789-HxCDD					0.869		1.240	722	695								
1234678-HpCDD	39.943	1.000	1.469e3	1.327e3	1.237	1.108	1.050	846	704	2.19e4	1.89e4	25.9	26.8	NO	bb	bb	0.894
OCDD	44.572	1.000	1.566e4	1.738e4	1.212	0.901	0.890	975	850	1.79e5	1.97e5	183.9	232.2	NO	bb	bb	10.544
13C-2378-TCDF	25.449	1.007	2.758e5	3.520e5	1.920	0.784	0.770	1020	944	4.02e6	5.17e6	3944.1	5471.9	NO	bb	bb	72.754
13C-12378-PeCDF	29.592	1.171	3.412e5	2.215e5	1.455	1.540	1.550	2007	2439	5.08e6	3.26e6	2533.9	1338.6	NO	bb	bb	86.010
13C-23478-PeCDF	30.929	1.223	3.026e5	1.996e5	1.363	1.516	1.550	2007	2439	4.55e6	2.97e6	2267.5	1217.0	NO	bb	bb	81.979
13C-123478-HxCDF	34.562	0.955	1.232e5	2.422e5	1.119	0.509	0.510	2083	2821	1.83e6	3.64e6	876.6	1291.1	NO	bd	bd	82.651
13C-123678-HxCDF	34.706	0.959	1.422e5	2.771e5	1.343	0.513	0.510	2083	2821	1.99e6	3.87e6	957.1	1372.2	NO	dd	dd	79.019
13C-234678-HxCDF	35.575	0.983	1.185e5	2.310e5	1.113	0.513	0.510	2083	2821	1.80e6	3.44e6	863.4	1220.0	NO	bb	bd	79.481
13C-123789-HxCDF	36.611	1.011	9.745e4	1.858e5	0.959	0.525	0.510	2083	2821	1.44e6	2.78e6	689.7	985.2	NO	bb	bb	74.762
13C-1234678-HpCDF	38.461	1.062	1.017e5	2.249e5	1.058	0.452	0.440	1493	2156	1.62e6	3.68e6	1083.7	1704.8	NO	bb	bb	78.099
13C-1234789-HpCDF	40.656	1.123	7.837e4	1.789e5	0.809	0.438	0.440	1493	2156	1.10e6	2.45e6	736.7	1134.5	NO	bb	bb	80.506
13C-1234-TCDD	25.280	0.000	2.002e5	2.493e5	1.000	0.803	0.770	1937	972	2.94e6	3.66e6	1517.8	3769.6	NO	bb	bb	100.000
13C-2378-TCDD	26.085	1.032	1.874e5	2.364e5	1.104	0.793	0.770	1937	972	2.85e6	3.68e6	1473.4	3788.1	NO	bb	bb	85.386
13C-12378-PeCDD	31.186	1.234	1.946e5	1.187e5	0.770	1.640	1.550	1074	825	2.90e6	1.77e6	2700.7	2141.6	NO	bb	bb	90.484
13C-123478-HxCDD	35.698	0.986	1.957e5	1.548e5	0.959	1.264	1.240	1964	1371	3.07e6	2.45e6	1565.3	1783.9	NO	bd	bd	92.465
13C-123678-HxCDD	35.809	0.989	2.229e5	1.783e5	1.120	1.250	1.240	1964	1371	3.23e6	2.56e6	1646.6	1864.8	NO	db	dd	90.635
13C-1234678-HpCDD	39.931	1.103	1.291e5	1.239e5	0.640	1.042	1.050	1152	1235	1.97e6	1.85e6	1707.0	1495.5	NO	bb	bb	99.976
13C-OCDD	44.563	1.231	2.446e5	2.723e5	0.555	0.898	0.890	1971	1675	3.05e6	3.37e6	1546.4	2009.7	NO	bb	bb	235.534
13C-123789-HxCDD	36.199	0.000	2.175e5	1.777e5	1.000	1.224	1.240	1964	1371	3.14e6	2.54e6	1596.8	1849.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.099	1.032	1.778e5		1.129			773		2.63e6		3395.4			bb		35.025

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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.201		0.770	581	643								
1289-TCDF					0.950		0.770	581	643								
13468-PECDF					1.142		1.550	508	797								
12389-PECDF					0.917		1.550	652	973								
123468-HXCDF	32.890	0.952	1.109e2	8.429e1	1.332	1.316	1.240	567	545	1.82e3	2.21e3	3.2	4.1	NO	bb	bb	0.040
1368-TCDD					1.148		0.770	716	555								
1289-TCDD					0.955		0.770	716	555								
12479-PECDD	28.467	0.913	1.020e2	8.056e1	2.043	1.266	1.550	604	560	1.86e3	1.25e3	3.1	2.2	YES	bb	bb	0.029
12389-PECDD					1.326		1.550	604	560								
124679-HXCDD					1.104		1.240	722	695								
1234679-HPCDD	38.918	0.975	1.627e3	1.638e3	1.554	0.993	1.050	846	704	2.61e4	2.42e4	30.8	34.4	NO	bb	bb	0.830
Total-tetrafurans			0.000e0		1.034			581		0.00e0							
Total-penta1			0.000e0					508		0.00e0							
Total-pentafurans			0.000e0		0.984			652		0.00e0							
Total-hexafurans			1.109e2		1.155			567		1.82e3							0.040
Total-heptafurans			8.821e2		1.211			559		1.30e4							0.496
Total-Furans			2.010e3		1.119			581		2.83e4							1.181
Total-tetradoxins			0.000e0		1.100			716		0.00e0							
Total-pentadoxins			0.000e0		1.499			604		0.00e0							
Total-hexadoxins			0.000e0		0.958			722		0.00e0							
Total-heptadoxins			3.097e3		1.396			846		4.79e4							1.724
Total-Dioxins			1.875e4		1.203			716		2.27e5							12.268
Total-TEQ			2.076e4					716		2.56e5							13.449
FUNCTION1 PFK			1.124e7					352935		4.51e7							
FUNCTION2 PFK			1.488e5					238427		5.22e6							0.000
FUNCTION3 PFK			2.493e5					264733		6.98e6							0.000
FUNCTION4 PFK			2.733e5					199943		6.45e6							
FUNCTION5 PFK			1.312e5					147860		4.74e6							
FUNCTION1 HXCD...			3.002e2					427		3.33e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			4.400e2					780		6.94e3							0.000
FUNCTION3 OCDPE			1.934e2					564		3.44e3							0.000
FUNCTION4 NCDPE			0.000e0					578		0.00e0							
FUNCTION5 DCDPE			0.000e0					610		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

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TF

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

PP

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

PF

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

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HXCDF	32.89	1.109e2	8.429e1	1.332	1.32	1.24	3.2	YES	NO	bb	bb	0.040

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.12	8.821e2	8.725e2	1.211	1.01	1.05	23.3	YES	NO	bb	bd	0.496

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	123468-HXCDF	32.89	1.109e2	8.429e1	1.332	1.32	1.24	3.2	YES	NO	bb	bb	0.040
2	OCDF	44.82	1.017e3	1.300e3	1.391	0.78	0.89	26.8	YES	NO	MM	bb	0.645
3	Total-heptafurans	39.12	8.821e2	8.725e2	1.211	1.01	1.05	23.3	YES	NO	bb	bd	0.496

TD

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

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

HD

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

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.94	1.469e3	1.327e3	1.237	1.11	1.05	25.9	YES	NO	bb	bb	0.894
2	1234679-HPCDD	38.92	1.627e3	1.638e3	1.554	0.99	1.05	30.8	YES	NO	bb	bb	0.830

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	OCDD	44.57	1.566e4	1.738e4	1.212	0.90	0.89	183.9	YES	NO	bb	bb	10.544
2	1234678-HpCDD	39.94	1.469e3	1.327e3	1.237	1.11	1.05	25.9	YES	NO	bb	bb	0.894
3	1234679-HPCDD	38.92	1.627e3	1.638e3	1.554	0.99	1.05	30.8	YES	NO	bb	bb	0.830

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HXCDF	32.89	1.109e2	8.429e1	1.332	1.32	1.24	3.2	YES	NO	bb	bb	0.040
2	OCDF	44.82	1.017e3	1.300e3	1.391	0.78	0.89	26.8	YES	NO	MM	bb	0.645
3	Total-heptafurans	39.12	8.821e2	8.725e2	1.211	1.01	1.05	23.3	YES	NO	bb	bd	0.496
4	OCDD	44.57	1.566e4	1.738e4	1.212	0.90	0.89	183.9	YES	NO	bb	bb	10.544
5	1234678-HpCDD	39.94	1.469e3	1.327e3	1.237	1.11	1.05	25.9	YES	NO	bb	bb	0.894
6	1234679-HPCDD	38.92	1.627e3	1.638e3	1.554	0.99	1.05	30.8	YES	NO	bb	bb	0.830

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.57	1.982e5					7.5	YES		bb		
2	FUNCTION1 PFK	23.83	2.988e5					5.3	YES		bb		
3	FUNCTION1 PFK	23.58	5.608e5					12.0	YES		db		
4	FUNCTION1 PFK	23.44	3.633e6					14.4	YES		bd		
5	FUNCTION1 PFK	22.50	2.648e6					20.6	YES		db		
6	FUNCTION1 PFK	22.44	9.494e5					19.8	YES		dd		
7	FUNCTION1 PFK	22.23	9.711e5					18.1	YES		bd		
8	FUNCTION1 PFK	21.93	1.294e6					16.5	YES		db		
9	FUNCTION1 PFK	21.76	6.863e5					13.6	YES		bd		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.87	1.362e4					0.8	NO		bb		0.000
2	FUNCTION2 PFK	28.72	1.135e4					1.3	NO		bb		0.000
3	FUNCTION2 PFK	28.66	1.422e4					1.5	NO		bb		0.000
4	FUNCTION2 PFK	28.33	3.995e3					0.7	NO		bb		0.000
5	FUNCTION2 PFK	28.01	3.799e3					0.8	NO		bb		0.000
6	FUNCTION2 PFK	27.87	3.027e3					0.7	NO		bb		0.000
7	FUNCTION2 PFK	27.81	4.343e3					0.9	NO		bb		0.000
8	FUNCTION2 PFK	32.28	4.331e3					0.9	NO		bb		0.000
9	FUNCTION2 PFK	32.23	2.845e3					0.7	NO		bb		0.000
10	FUNCTION2 PFK	32.13	4.193e3					0.9	NO		bb		0.000
11	FUNCTION2 PFK	31.87	8.185e3					1.2	NO		db		0.000
12	FUNCTION2 PFK	31.81	1.351e4					1.6	NO		bd		0.000
13	FUNCTION2 PFK	31.72	1.097e4					1.2	NO		bb		0.000
14	FUNCTION2 PFK	31.15	3.835e3					0.9	NO		bb		0.000
15	FUNCTION2 PFK	31.01	1.118e3					0.4	NO		bb		0.000
16	FUNCTION2 PFK	30.94	7.234e3					1.0	NO		db		0.000
17	FUNCTION2 PFK	30.91	2.675e3					0.7	NO		bd		0.000
18	FUNCTION2 PFK	30.10	7.149e3					1.3	NO		bb		0.000
19	FUNCTION2 PFK	30.04	1.011e4					1.5	NO		bb		0.000
20	FUNCTION2 PFK	29.69	5.275e3					1.0	NO		bb		0.000
21	FUNCTION2 PFK	29.22	6.885e3					1.2	NO		bb		0.000
22	FUNCTION2 PFK	29.18	6.106e3					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	FUNCTION3 PFK	35.68	2.467e4					1.2	NO		bb		0.000
2	FUNCTION3 PFK	35.42	5.774e3					0.7	NO		bb		0.000
3	FUNCTION3 PFK	35.37	3.089e3					0.6	NO		bb		0.000
4	FUNCTION3 PFK	35.09	1.149e4					1.3	NO		db		0.000
5	FUNCTION3 PFK	35.04	1.417e4					1.8	NO		bd		0.000
6	FUNCTION3 PFK	34.86	1.131e3					0.4	NO		bb		0.000
7	FUNCTION3 PFK	34.23	1.061e4					1.0	NO		bb		0.000
8	FUNCTION3 PFK	33.92	5.143e3					0.8	NO		db		0.000
9	FUNCTION3 PFK	33.88	2.103e3					0.6	NO		bd		0.000
10	FUNCTION3 PFK	33.84	3.325e3					0.6	NO		bb		0.000
11	FUNCTION3 PFK	33.78	1.457e3					0.4	NO		db		0.000
12	FUNCTION3 PFK	33.71	1.641e4					1.5	NO		bd		0.000
13	FUNCTION3 PFK	33.55	7.516e3					1.0	NO		bb		0.000
14	FUNCTION3 PFK	33.44	4.462e3					0.8	NO		bb		0.000
15	FUNCTION3 PFK	33.35	6.533e3					1.1	NO		bb		0.000
16	FUNCTION3 PFK	32.57	7.657e3					0.9	NO		bb		0.000
17	FUNCTION3 PFK	37.39	8.357e3					1.2	NO		bb		0.000
18	FUNCTION3 PFK	37.25	3.232e3					0.6	NO		bb		0.000
19	FUNCTION3 PFK	37.08	1.392e3					0.5	NO		bb		0.000
20	FUNCTION3 PFK	37.03	4.691e3					0.9	NO		bb		0.000
21	FUNCTION3 PFK	36.88	1.019e3					0.3	NO		bb		0.000
22	FUNCTION3 PFK	36.53	1.912e4					1.1	NO		bb		0.000
23	FUNCTION3 PFK	36.38	9.618e3					1.2	NO		db		0.000
24	FUNCTION3 PFK	36.24	3.383e4					1.6	NO		bd		0.000
25	FUNCTION3 PFK	36.04	1.038e4					1.4	NO		bb		0.000
26	FUNCTION3 PFK	35.83	2.536e4					1.8	NO		db		0.000
27	FUNCTION3 PFK	35.79	6.744e3					1.1	NO		bd		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	FUNCTION4 PFK	37.78	4.211e4					2.6	NO		db		
2	FUNCTION4 PFK	37.75	1.212e4					2.6	NO		dd		
3	FUNCTION4 PFK	37.69	1.391e4					2.3	NO		bd		
4	FUNCTION4 PFK	37.59	4.765e3					1.0	NO		bb		
5	FUNCTION4 PFK	42.18	7.920e3					1.7	NO		bb		
6	FUNCTION4 PFK	42.13	5.257e3					1.1	NO		bb		
7	FUNCTION4 PFK	41.63	8.472e3					1.4	NO		bb		
8	FUNCTION4 PFK	41.29	6.064e3					1.2	NO		bb		
9	FUNCTION4 PFK	41.11	1.652e4					1.6	NO		bb		
10	FUNCTION4 PFK	40.72	3.140e4					2.2	NO		bb		
11	FUNCTION4 PFK	40.67	3.575e3					0.8	NO		bb		
12	FUNCTION4 PFK	40.56	1.124e3					0.5	NO		bb		
13	FUNCTION4 PFK	40.51	8.706e3					1.9	NO		bb		
14	FUNCTION4 PFK	39.91	9.442e2					0.4	NO		bb		
15	FUNCTION4 PFK	39.81	2.986e4					2.2	NO		bb		
16	FUNCTION4 PFK	39.23	1.053e3					0.5	NO		bb		
17	FUNCTION4 PFK	38.52	2.175e4					1.4	NO		bb		
18	FUNCTION4 PFK	38.38	4.424e3					0.8	NO		bb		
19	FUNCTION4 PFK	38.15	1.437e4					1.4	NO		db		
20	FUNCTION4 PFK	38.06	2.085e4					1.3	NO		bd		
21	FUNCTION4 PFK	42.53	9.528e3					1.6	NO		bb		
22	FUNCTION4 PFK	42.48	5.889e3					1.1	NO		bb		
23	FUNCTION4 PFK	42.42	2.695e3					0.7	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	FUNCTION5 PFK	43.89	6.415e3					1.4	NO		bb		
2	FUNCTION5 PFK	43.84	3.476e3					1.2	NO		db		
3	FUNCTION5 PFK	43.81	1.687e4					1.9	NO		dd		
4	FUNCTION5 PFK	43.72	2.246e3					0.9	NO		bd		
5	FUNCTION5 PFK	43.64	5.966e3					1.6	NO		bb		
6	FUNCTION5 PFK	43.48	8.171e3					1.2	NO		bb		
7	FUNCTION5 PFK	43.31	5.134e2					0.4	NO		bb		
8	FUNCTION5 PFK	43.27	4.001e3					1.1	NO		db		
9	FUNCTION5 PFK	43.24	5.391e3					1.4	NO		dd		
10	FUNCTION5 PFK	43.20	3.429e3					1.3	NO		bd		
11	FUNCTION5 PFK	43.16	4.170e3					1.4	NO		bb		
12	FUNCTION5 PFK	43.08	1.022e4					1.5	NO		bb		
13	FUNCTION5 PFK	45.59	5.383e3					1.5	NO		bb		
14	FUNCTION5 PFK	45.52	1.333e3					0.6	NO		bb		
15	FUNCTION5 PFK	45.31	3.599e3					0.8	NO		bb		
16	FUNCTION5 PFK	45.25	6.500e3					1.3	NO		db		
17	FUNCTION5 PFK	45.20	3.521e3					0.9	NO		bd		
18	FUNCTION5 PFK	45.02	4.881e3					1.0	NO		bb		
19	FUNCTION5 PFK	44.90	6.299e3					1.7	NO		bb		
20	FUNCTION5 PFK	44.75	1.029e3					0.4	NO		bb		
21	FUNCTION5 PFK	44.69	2.311e3					1.0	NO		bb		
22	FUNCTION5 PFK	44.48	7.509e2					0.6	NO		bb		
23	FUNCTION5 PFK	44.39	4.948e2					0.4	NO		bb		
24	FUNCTION5 PFK	44.34	2.913e3					0.9	NO		bb		
25	FUNCTION5 PFK	44.28	5.327e2					0.4	NO		bb		
26	FUNCTION5 PFK	44.19	5.382e2					0.4	NO		bb		
27	FUNCTION5 PFK	44.12	9.640e3					1.4	NO		db		
28	FUNCTION5 PFK	44.09	3.126e3					0.9	NO		bd		
29	FUNCTION5 PFK	45.92	4.728e2					0.3	NO		bb		
30	FUNCTION5 PFK	45.70	3.025e3					1.0	NO		bb		
31	FUNCTION5 PFK	45.65	4.029e3					1.3	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	FUNCTION1 HXCD...	23.66	7.214e1					2.0	NO		bb		0.000
2	FUNCTION1 HXCD...	22.77	9.505e1					2.6	NO		bb		0.000
3	FUNCTION1 HXCD...	21.13	1.330e2					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													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.64	9.229e1					1.8	NO		db		0.000
2	FUNCTION2 HPCD...	31.52	1.691e2					2.9	NO		bd		0.000
3	FUNCTION2 HPCD...	30.90	1.055e2					2.9	NO		bb		0.000
4	FUNCTION2 HPCD...	30.53	7.314e1					1.3	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.23	8.593e1					3.7	YES		bb		0.000
2	FUNCTION3 OCDPE	33.60	1.075e2					2.4	NO		bb		0.000

ETHERS5

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

ETHERS6

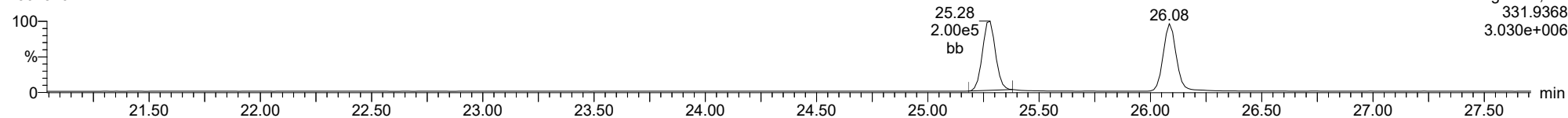
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD

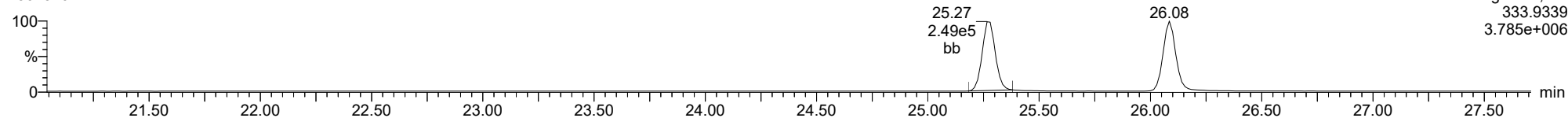
23073104



F1:Voltage SIR,EI+
331.9368
3.030e+006

13C-1234-TCDD

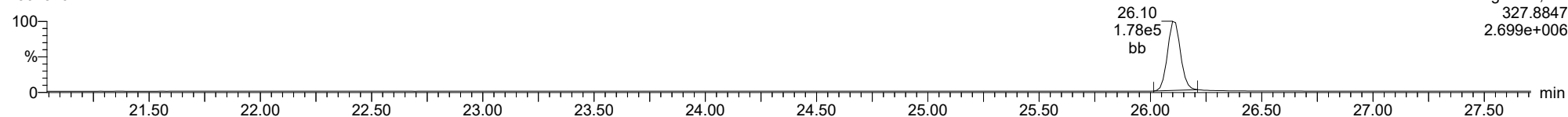
23073104



F1:Voltage SIR,EI+
333.9339
3.785e+006

37CL-2378-TCDD

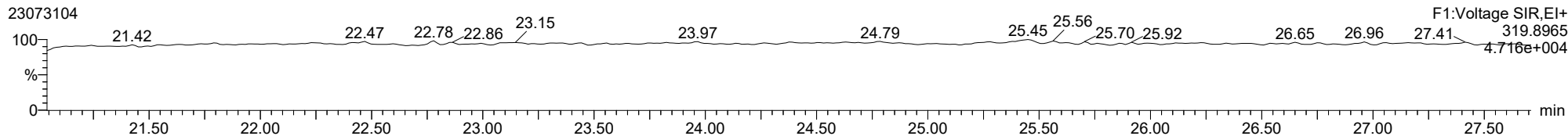
23073104



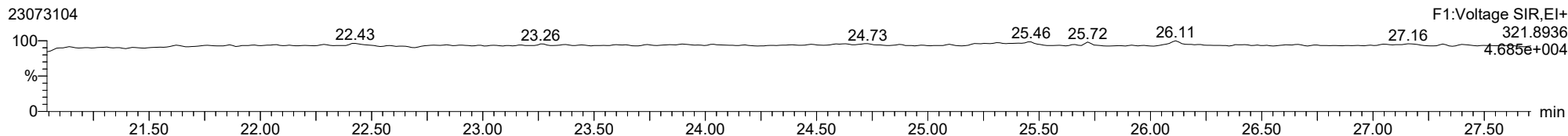
F1:Voltage SIR,EI+
327.8847
2.699e+006

ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

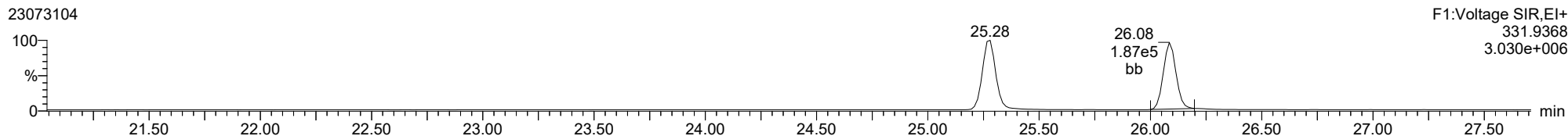
2378-TCDD



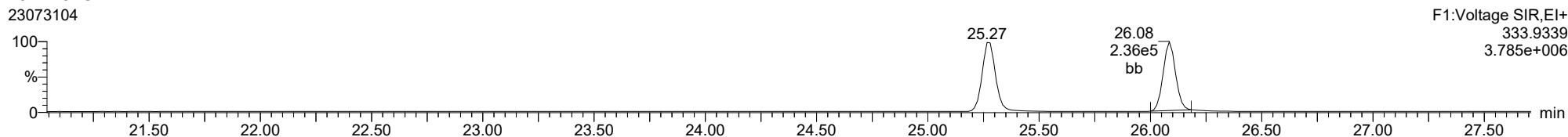
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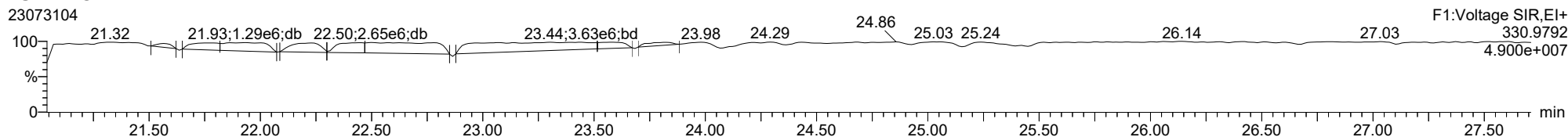
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13C-2378-TCDD

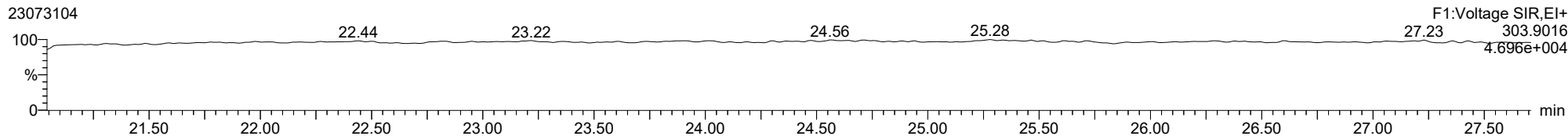


FUNCTION1 PFK

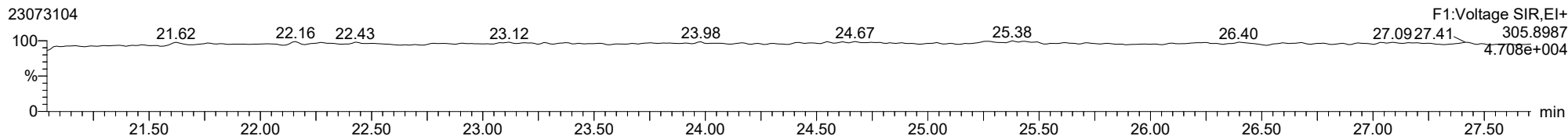


ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

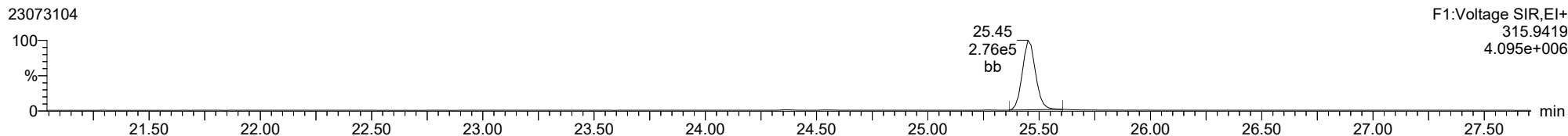
2378-TCDF



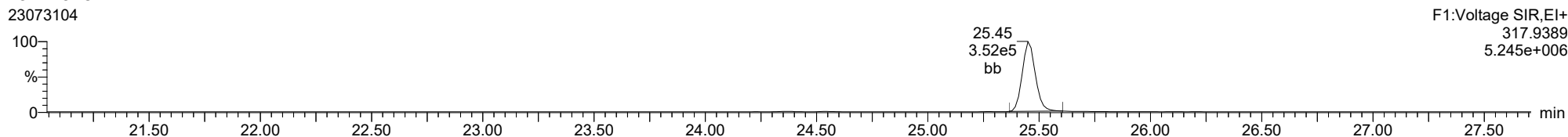
2378-TCDF



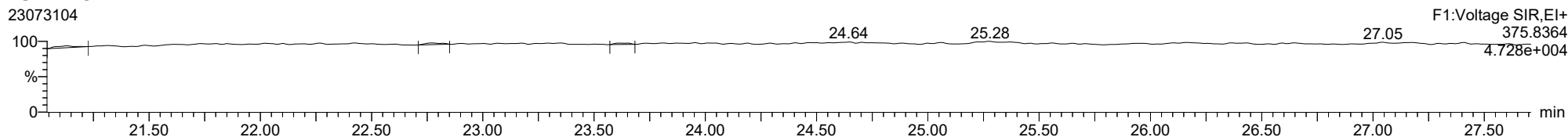
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13C-2378-TCDF

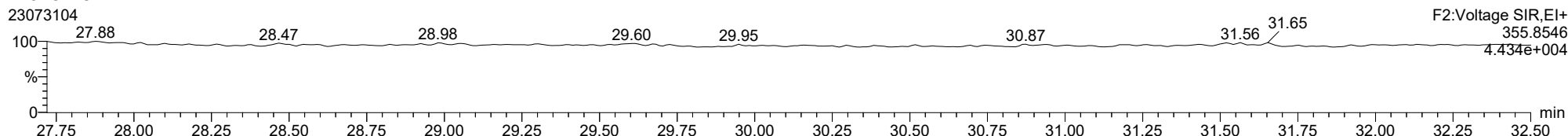


FUNCTION1 HXCDPE

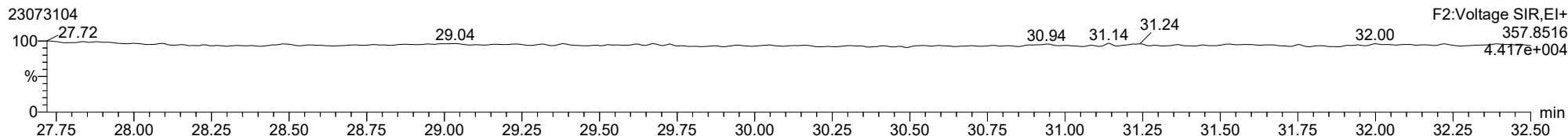


ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

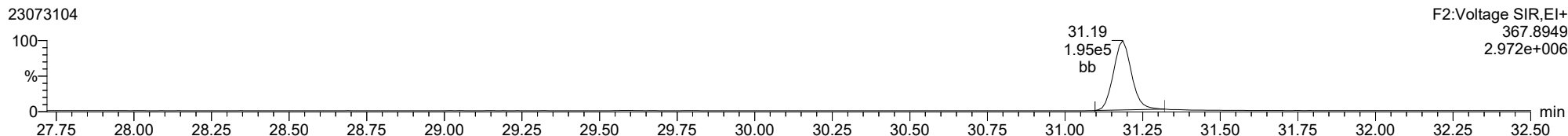
12378-PeCDD



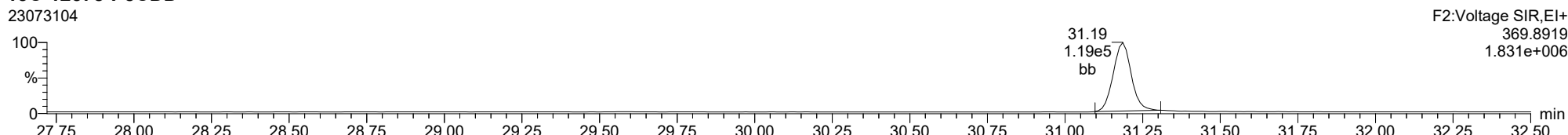
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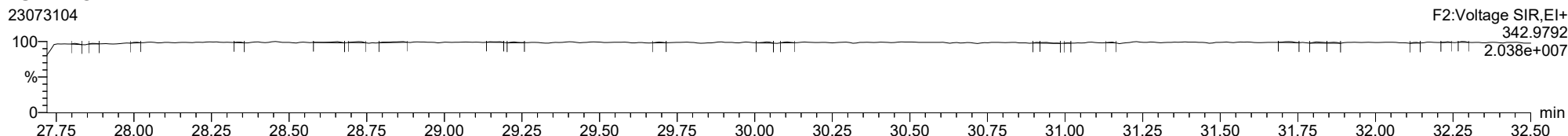
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13C-12378-PeCDD

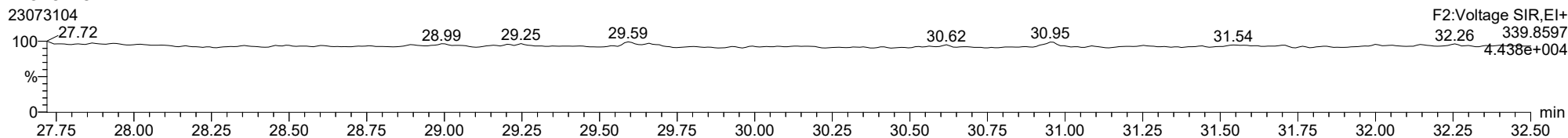


FUNCTION2 PFK

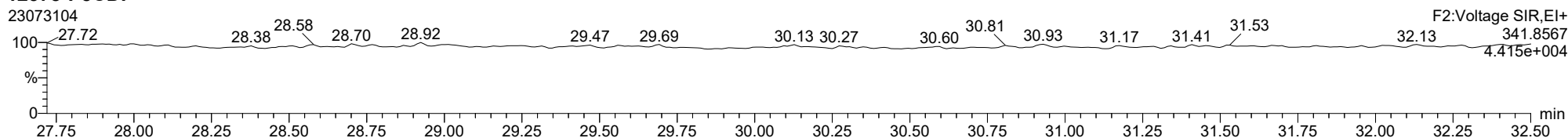


ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

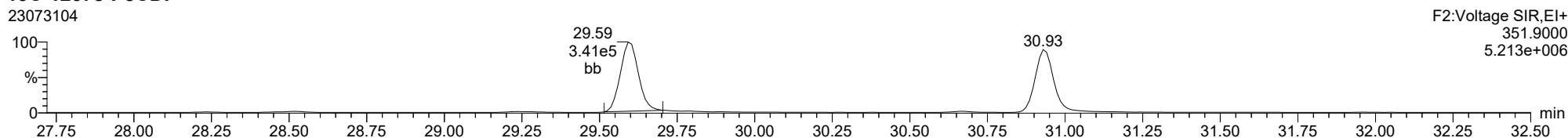
12378-PeCDF



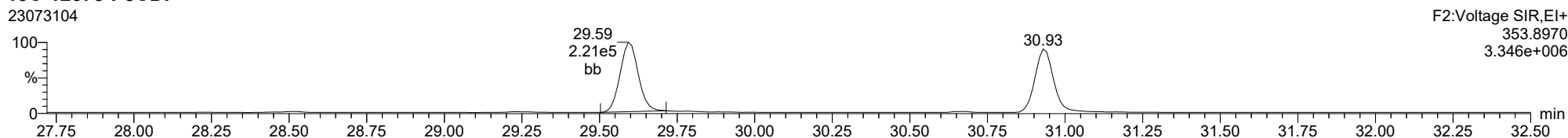
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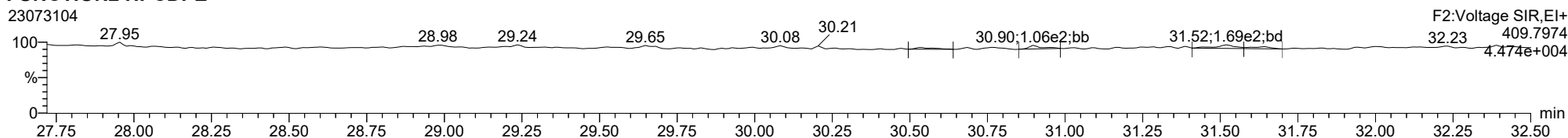
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13C-12378-PeCDF

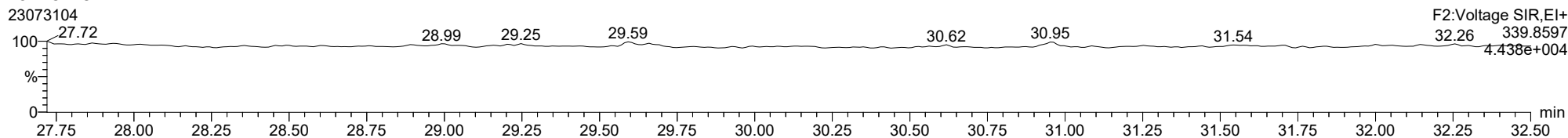


FUNCTION2 HPCDPE

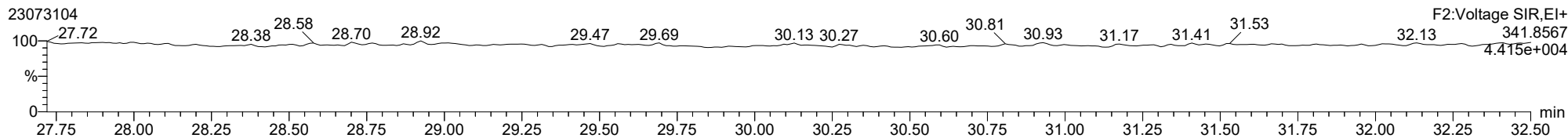


ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

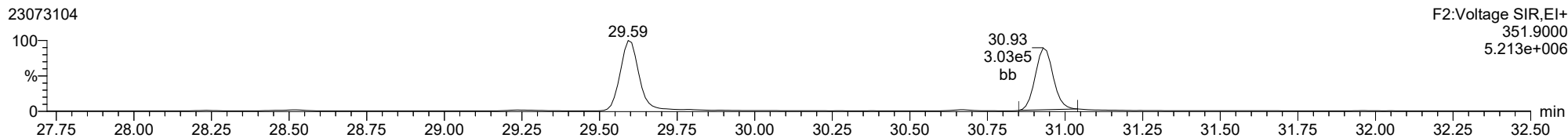
23478-PeCDF



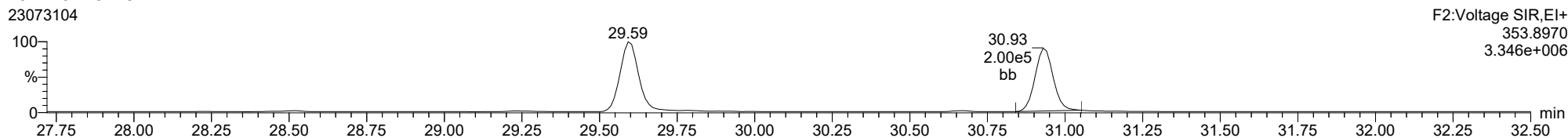
23478-PeCDF



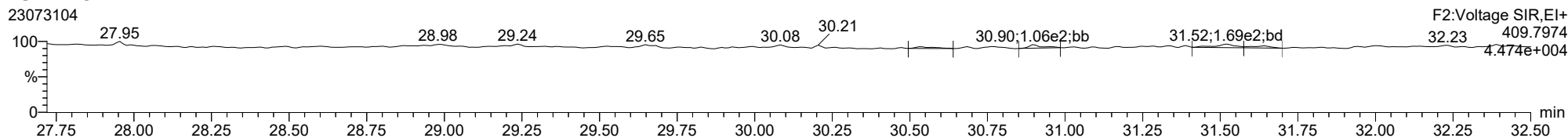
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13C-23478-PeCDF

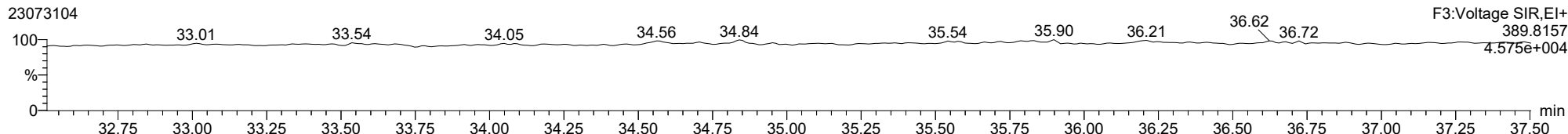


FUNCTION2 HPCDPE

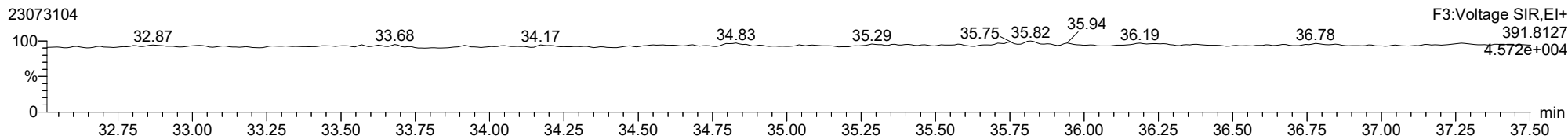


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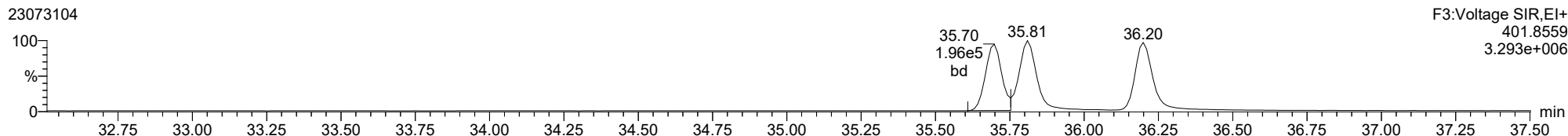
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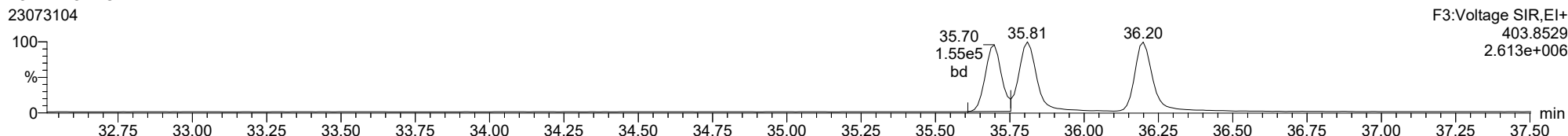
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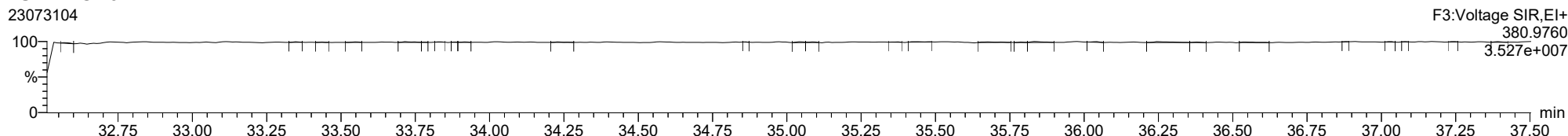
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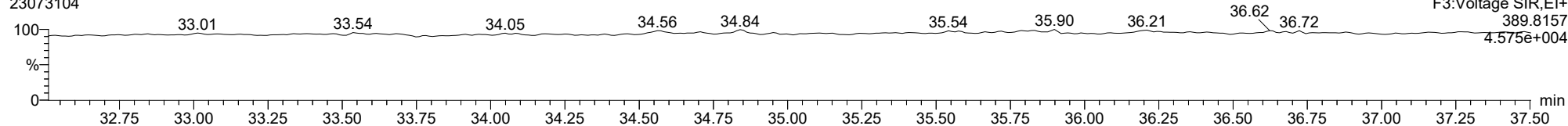
FUNCTION3 PFK



ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

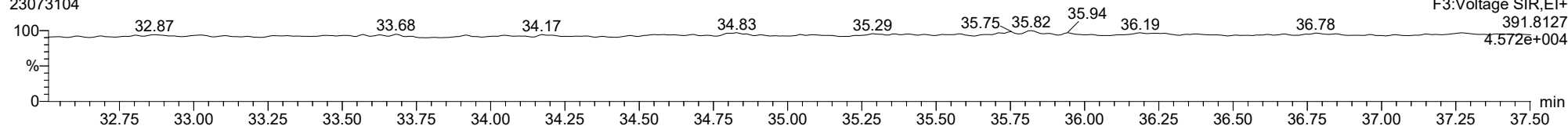
123678-HxCDD

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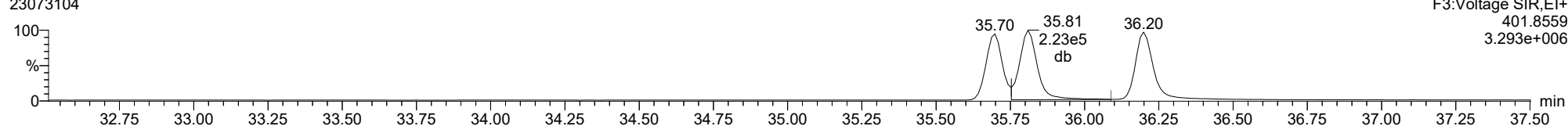
123678-HxCDD

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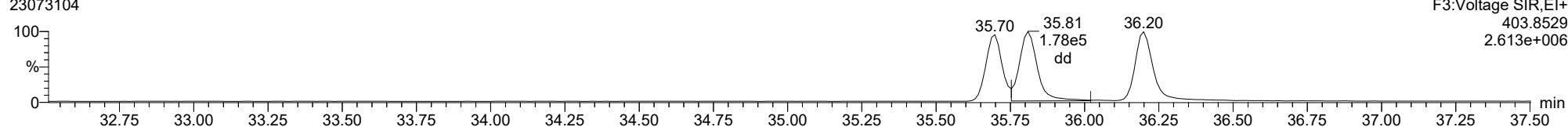
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13C-123678-HxCDD

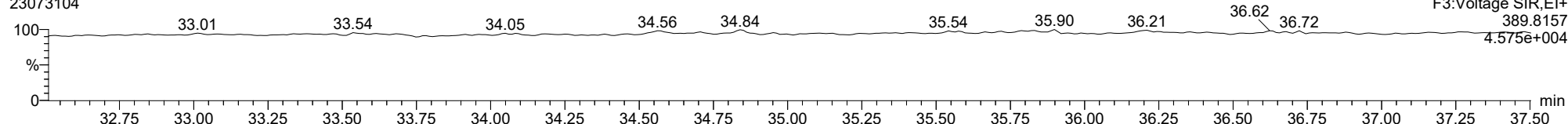
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ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

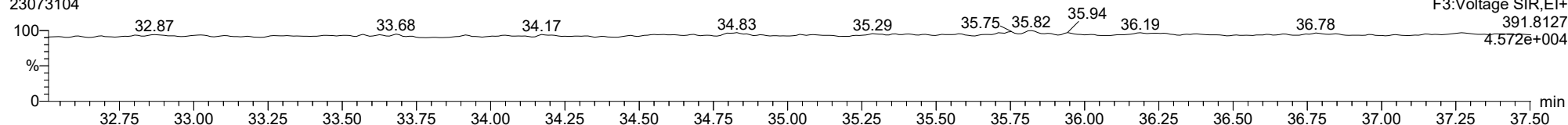
123789-HxCDD

23073104



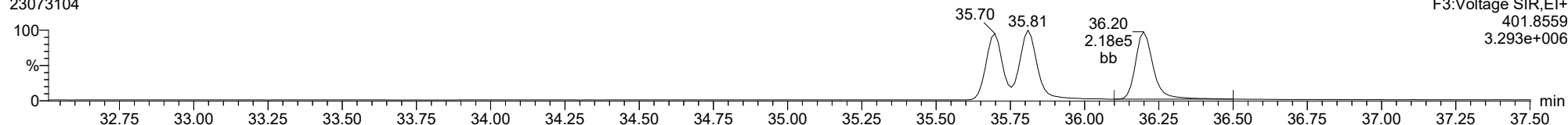
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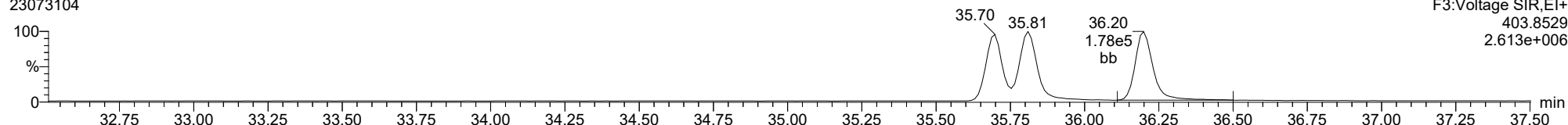
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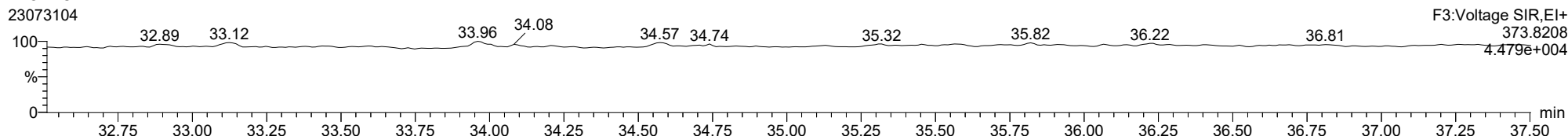
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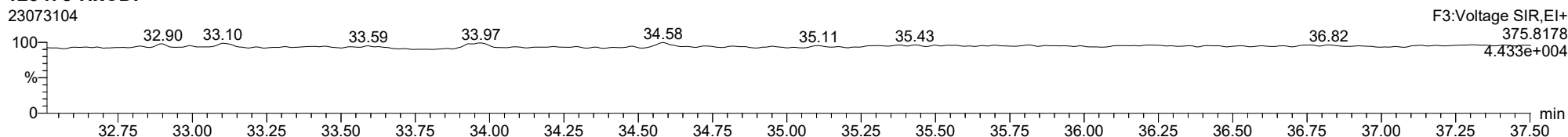


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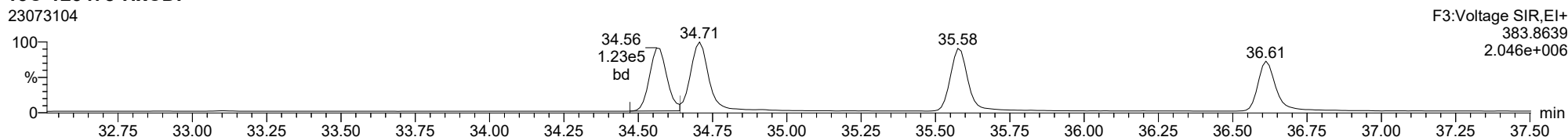
123478-HxCDF



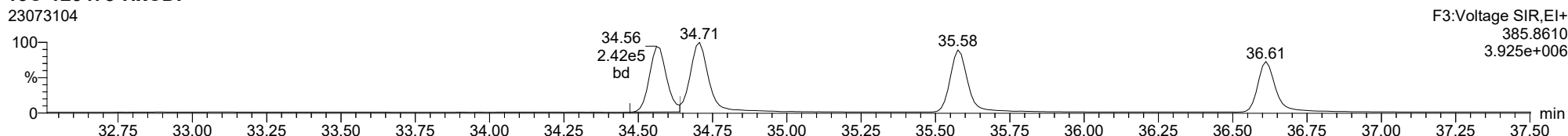
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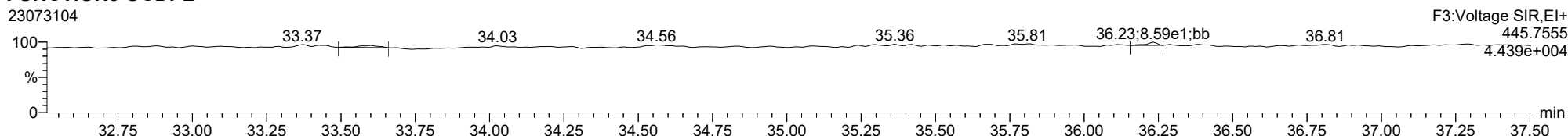
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13C-123478-HxCDF

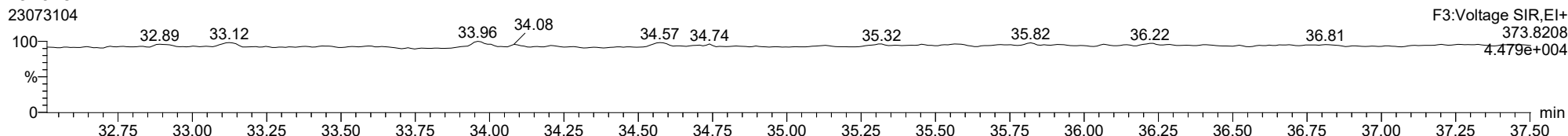


FUNCTION3 OCDPE

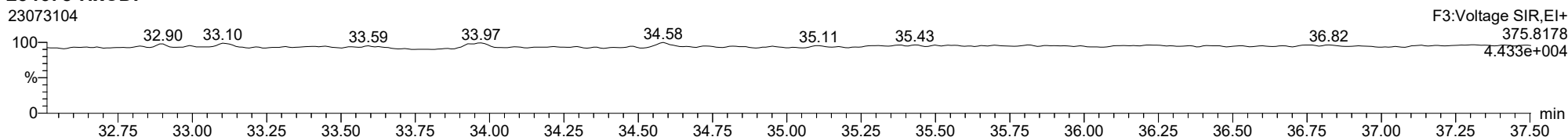


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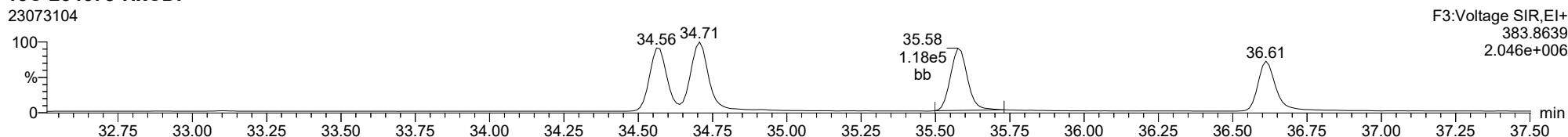
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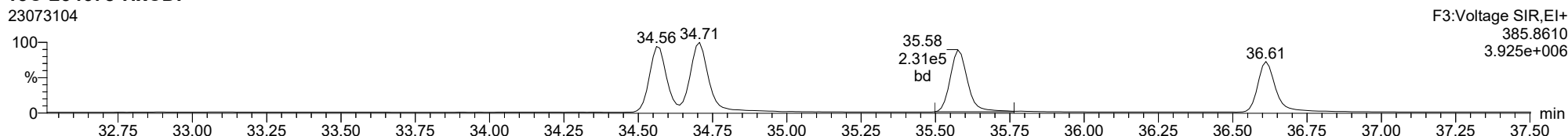
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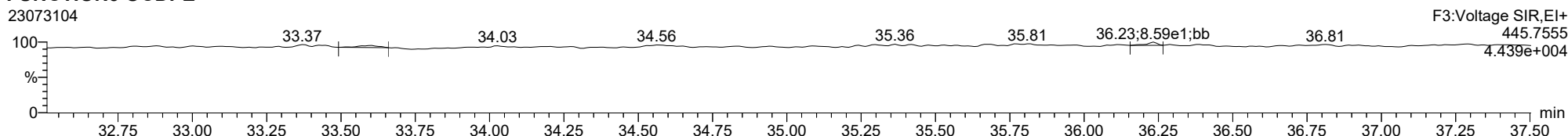
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13C-234678-HxCDF

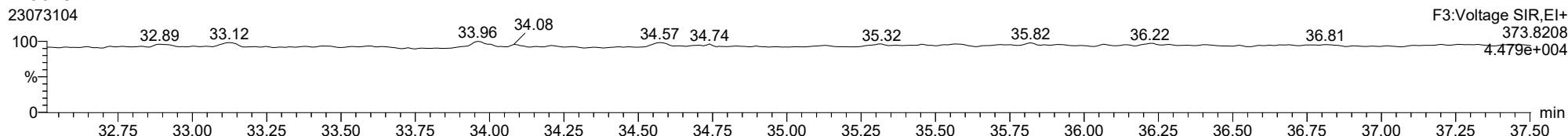


FUNCTION3 OCDPE

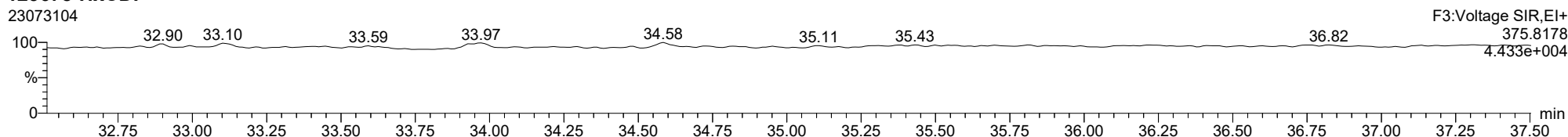


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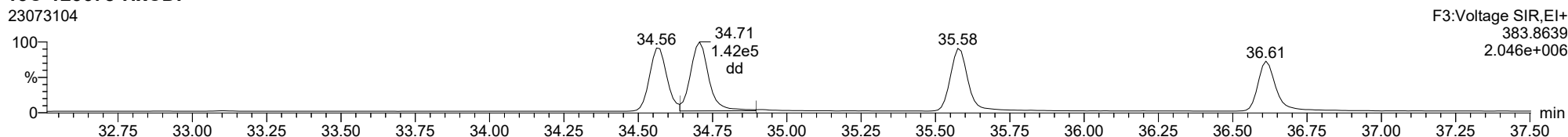
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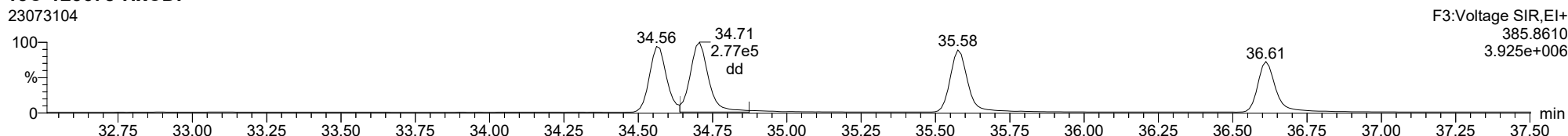
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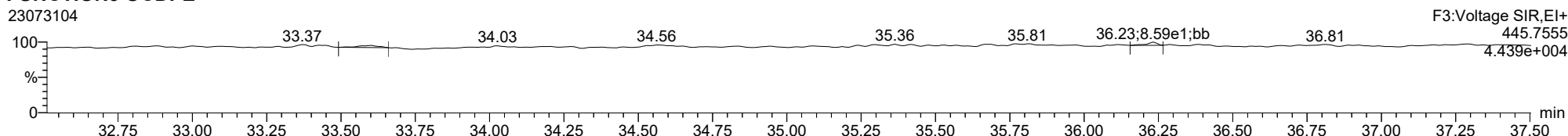
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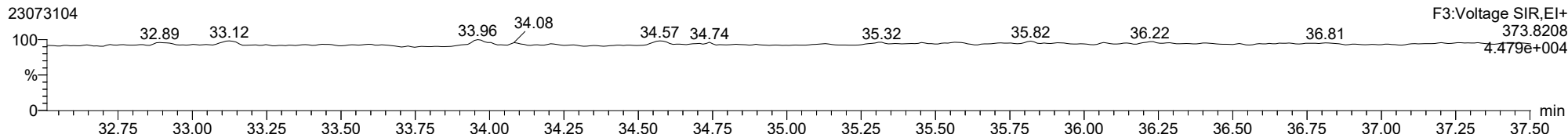


FUNCTION3 OCDPE

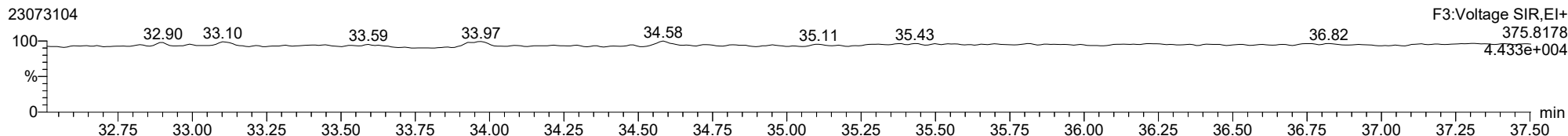


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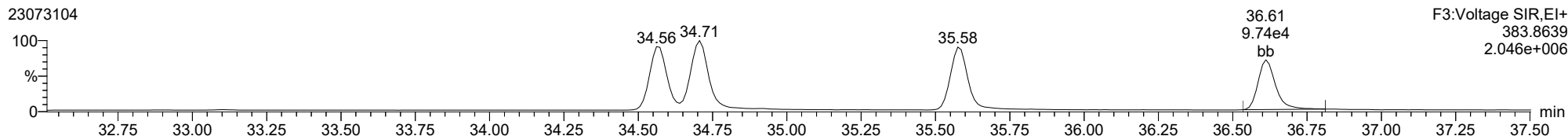
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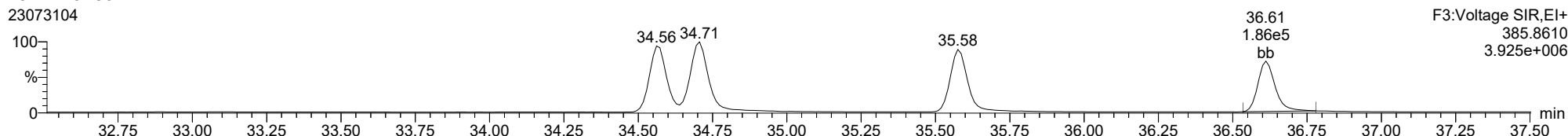
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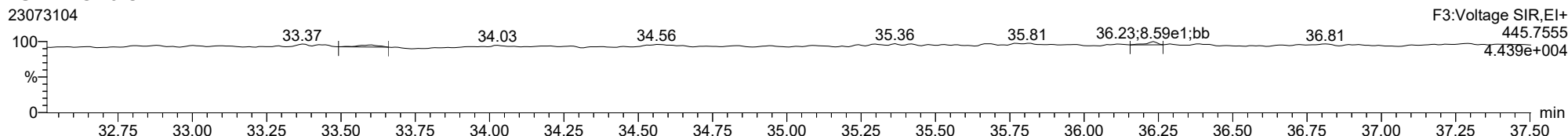
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13C-123789-HxCDF



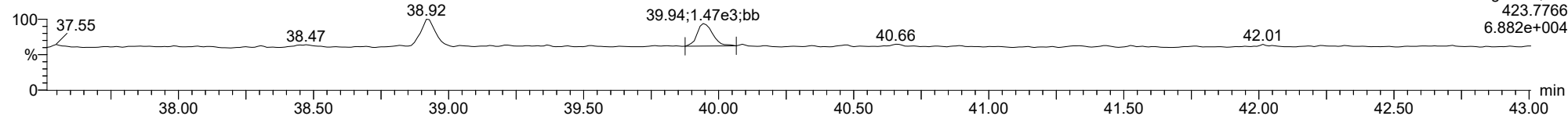
FUNCTION3 OCDPE



ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

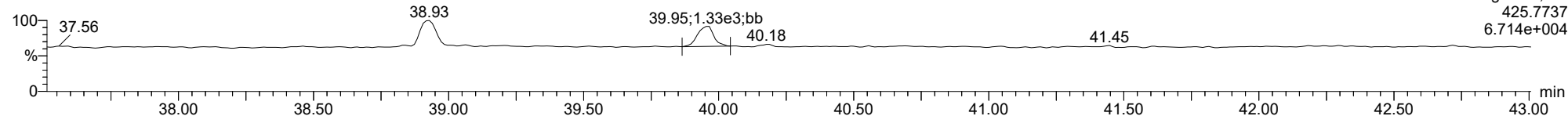
1234678-HpCDD

23073104



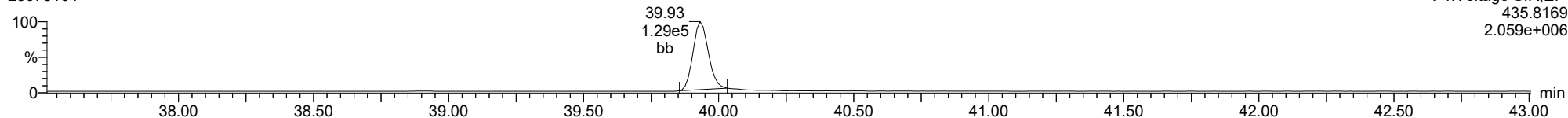
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23073104



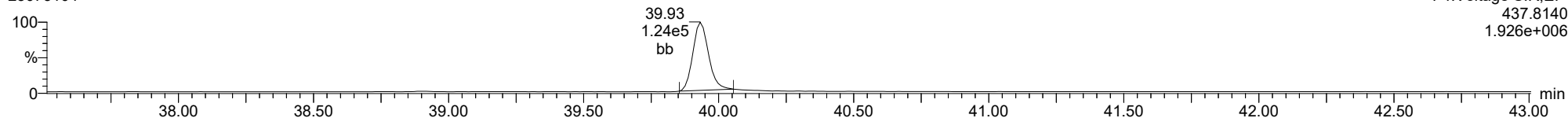
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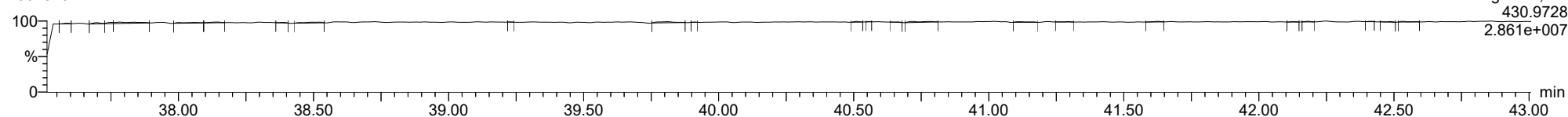
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FUNCTION4 PFK

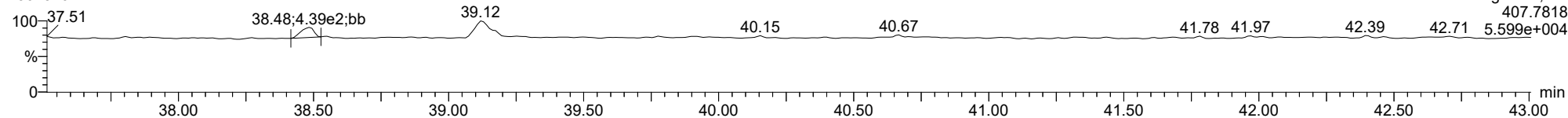
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ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

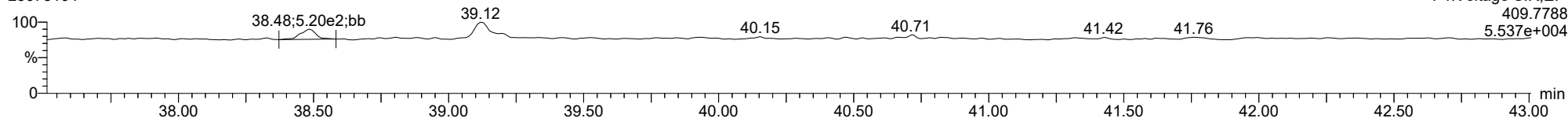
1234678-HpCDF

23073104



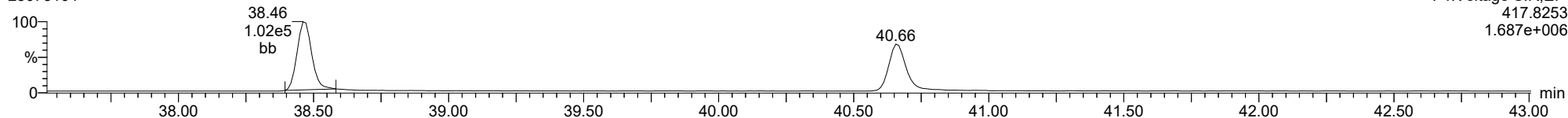
1234678-HpCDF

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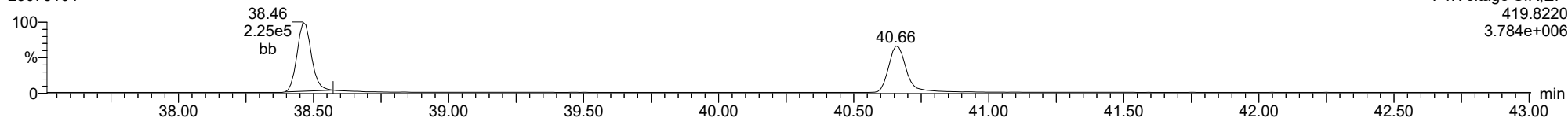
13C-1234678-HpCDF

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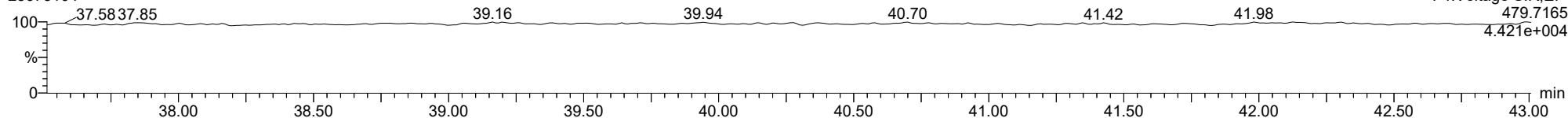
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23073104



FUNCTION4 NCDPE

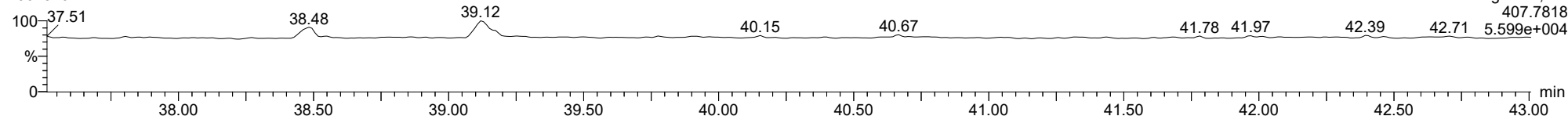
23073104



ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

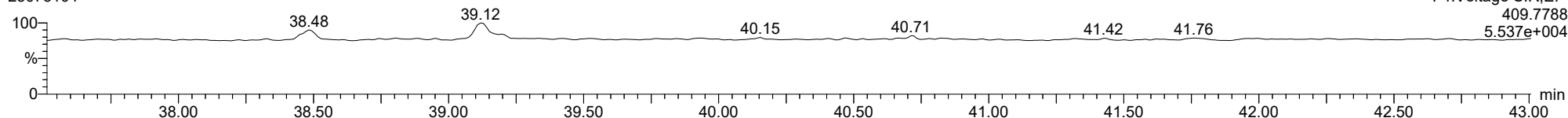
1234789-HpCDF

23073104



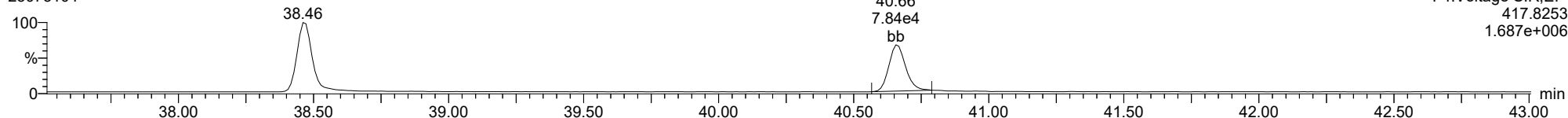
1234789-HpCDF

23073104



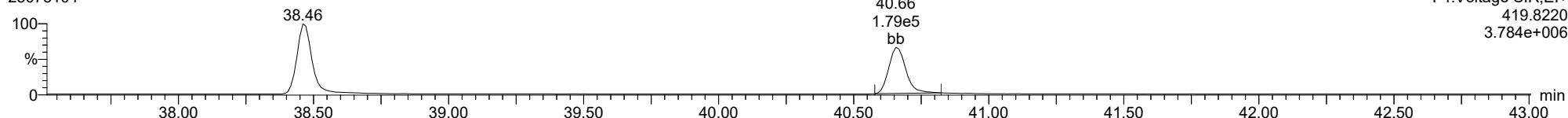
13C-1234789-HpCDF

23073104



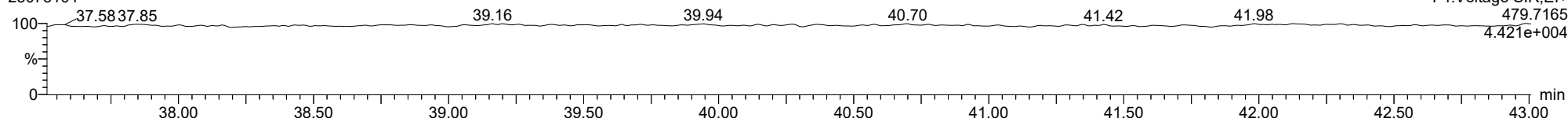
13C-1234789-HpCDF

23073104



FUNCTION4 NCDPE

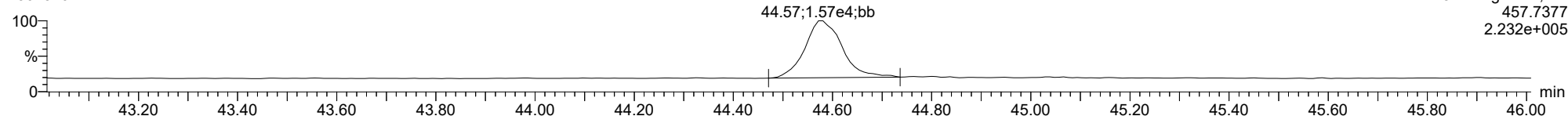
23073104



ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

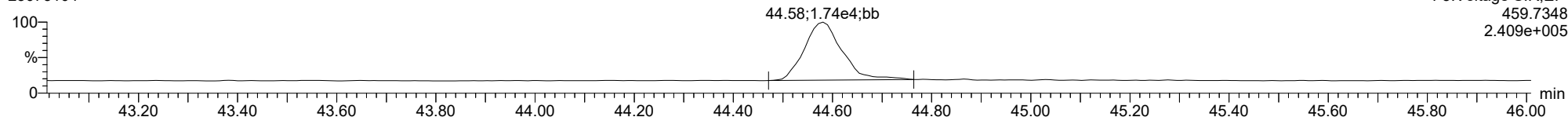
OCDD

23073104



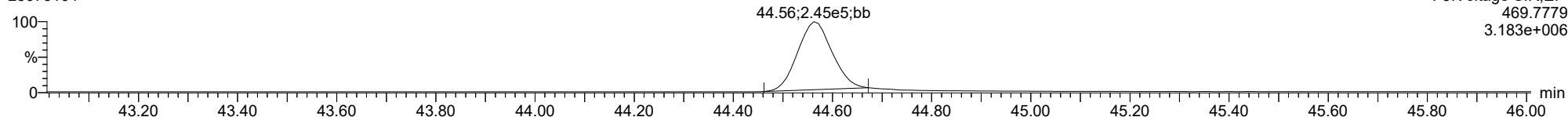
OCDD

23073104



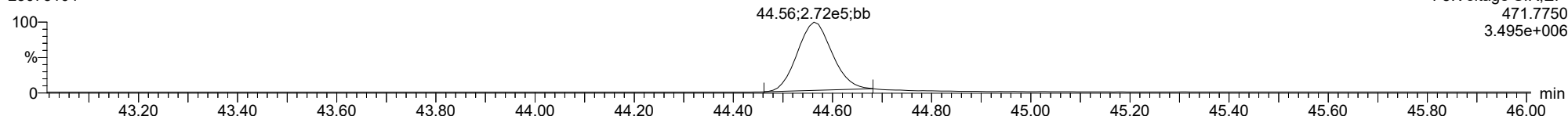
13C-OCDD

23073104



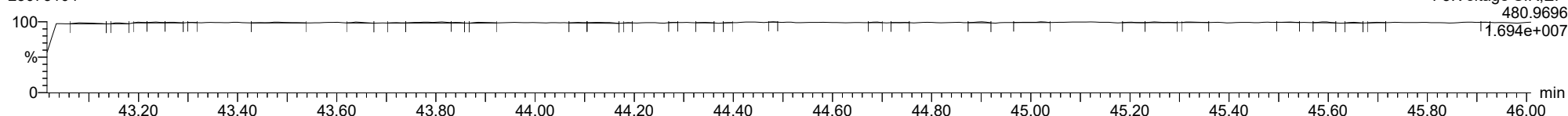
13C-OCDD

23073104

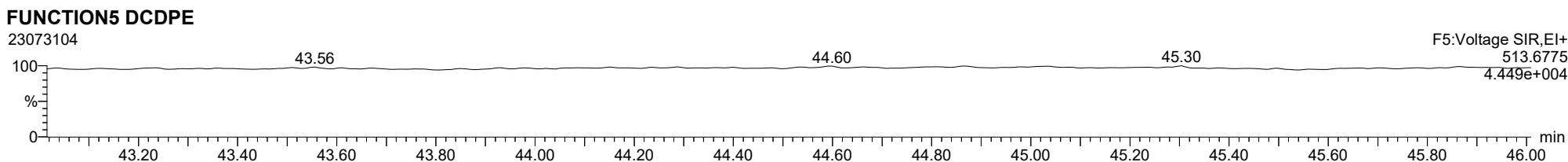
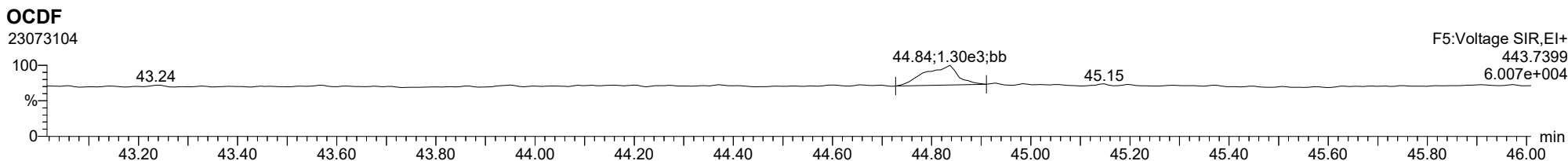
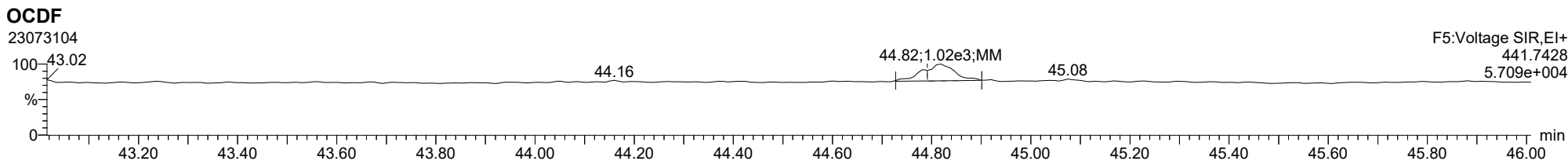


FUNCTION5 PFK

23073104

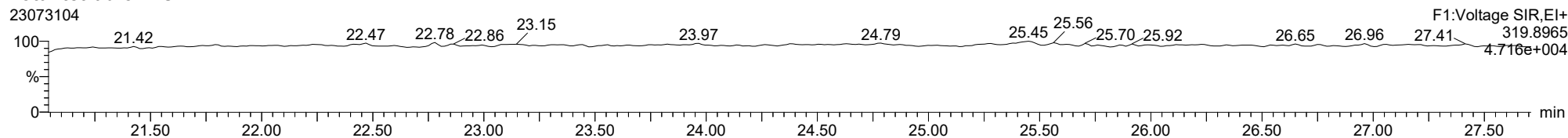


ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

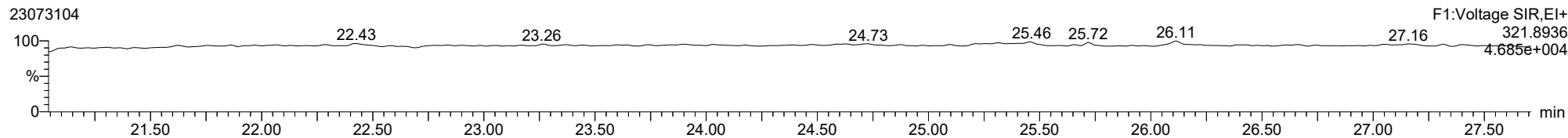


ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

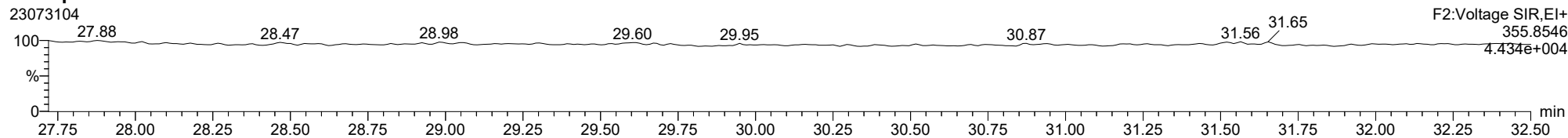
Total-tetradoxins



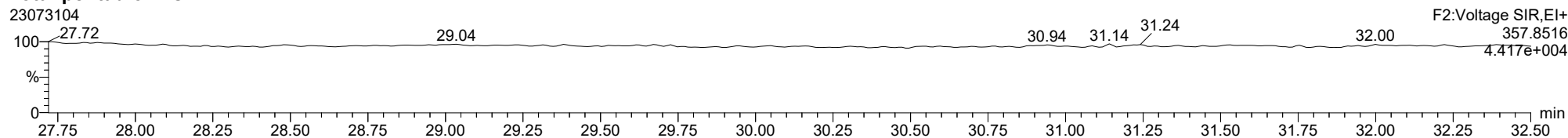
Total-tetradoxins



Total-pentadoxins

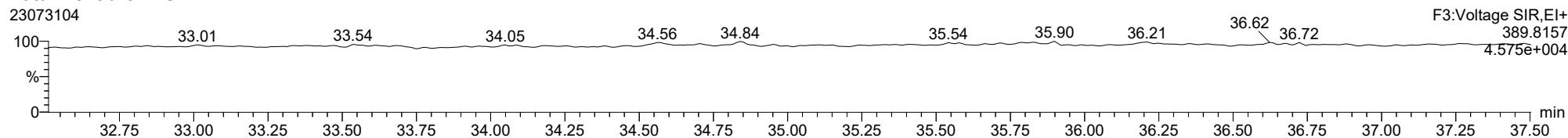


Total-pentadoxins

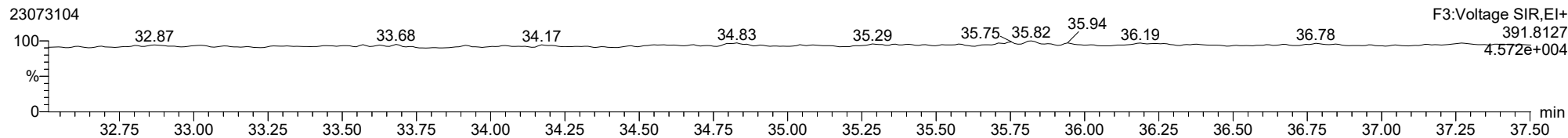


ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

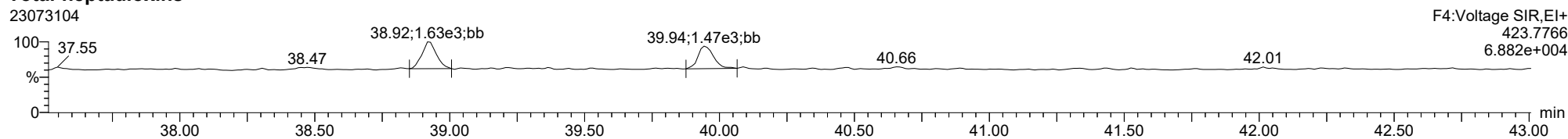
Total-hexadioxins



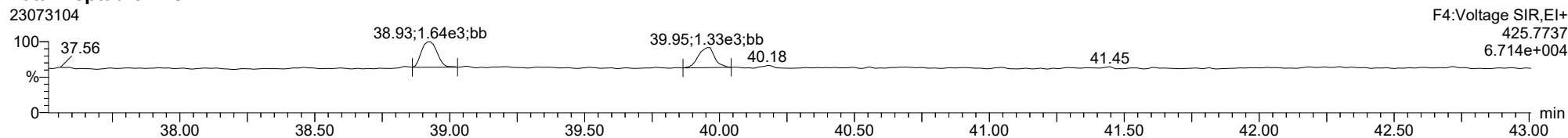
Total-hexadioxins



Total-heptadioxins

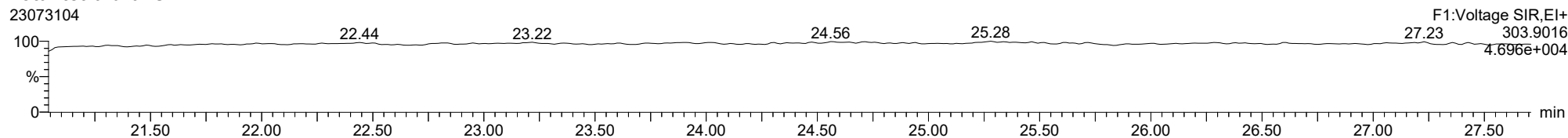


Total-heptadioxins

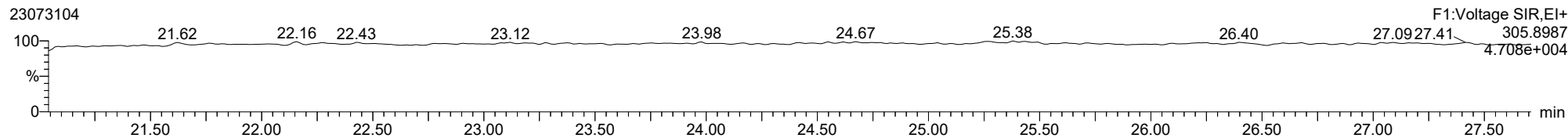


ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

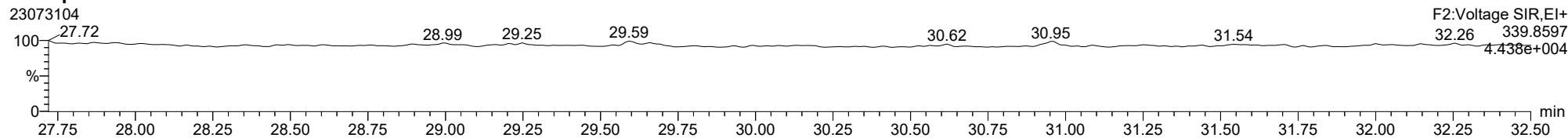
Total-tetrafurans



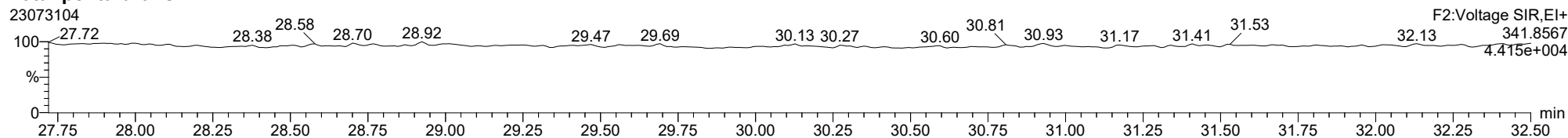
Total-tetrafurans



Total-pentafurans



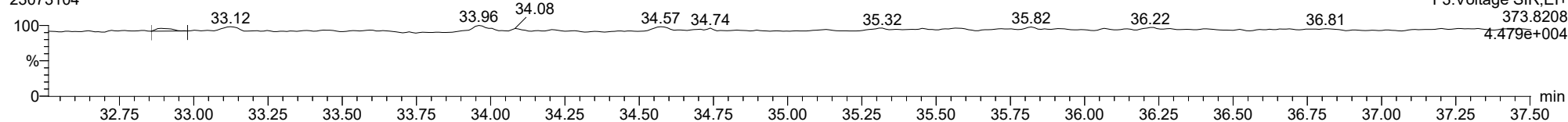
Total-pentafurans



ID: BLF0318-BLK1, Name: 23073104, Date: 31-Jul-2023, Time: 14:37:32, Conditions: AUTOSPEC01, User: pk

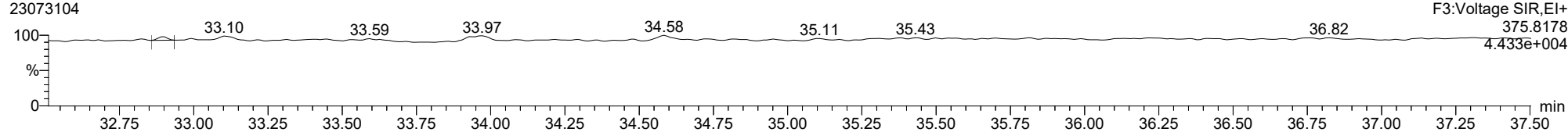
Total-hexafurans

23073104



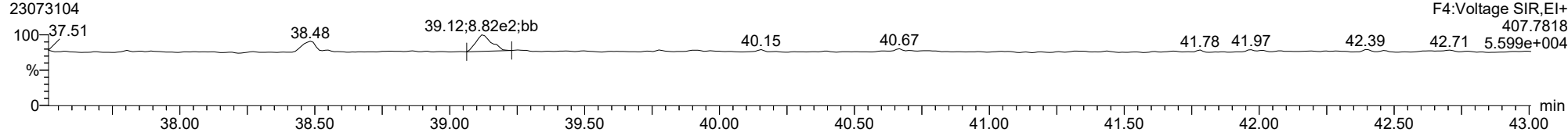
Total-hexafurans

23073104



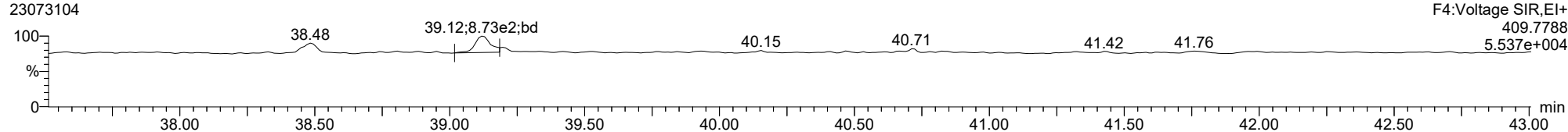
Total-heptafurans

23073104



Total-heptafurans

23073104





LCS RECOVERY
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Analyzed: 07/31/23 15:25

Batch: BLF0318

Laboratory ID: BLF0318-BS2

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	21.0		105	75 - 158
2,3,7,8-TCDD	20.0	21.2		106	67 - 158
1,2,3,7,8-PeCDF	100	107		107	80 - 134
2,3,4,7,8-PeCDF	100	108		108	68 - 160
1,2,3,7,8-PeCDD	100	116		116	70 - 142
1,2,3,4,7,8-HxCDF	100	112		112	72 - 134
1,2,3,6,7,8-HxCDF	100	118		118	84 - 130
2,3,4,6,7,8-HxCDF	100	111		111	70 - 156
1,2,3,7,8,9-HxCDF	100	106		106	78 - 130
1,2,3,4,7,8-HxCDD	100	105		105	70 - 164
1,2,3,6,7,8-HxCDD	100	108		108	76 - 134
1,2,3,7,8,9-HxCDD	100	110		110	64 - 162
1,2,3,4,6,7,8-HpCDF	100	117	B	117	82 - 122
1,2,3,4,7,8,9-HpCDF	100	114		114	78 - 138
1,2,3,4,6,7,8-HpCDD	100	105	B	105	70 - 140
OCDF	200	178	B	89.2	63 - 170
OCDD	200	208	B	104	78 - 144

* Indicates values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:18 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, 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	25.449	1.001	2.272e4	2.933e4	0.951	0.775	0.770	886	935	3.54e5	4.31e5	399.7	460.8	NO	bb	bb	10.477
12378-PeCDF	29.604	1.001	1.421e5	8.967e4	0.963	1.585	1.550	2969	1461	2.09e6	1.28e6	705.4	876.7	NO	bb	bb	53.611
23478-PeCDF	30.930	1.000	1.468e5	9.131e4	1.072	1.608	1.550	2969	1461	2.18e6	1.35e6	732.6	925.7	NO	bb	bb	54.009
123478-HxCDF	34.573	1.001	1.014e5	8.051e4	1.142	1.259	1.240	1707	1596	1.52e6	1.22e6	889.9	765.9	NO	bd	bd	55.785
234678-HxCDF	35.586	1.001	1.012e5	7.629e4	1.138	1.326	1.240	1707	1596	1.46e6	1.14e6	857.0	714.3	NO	bd	bb	55.733
123678-HxCDF	34.707	1.000	1.118e5	9.191e4	1.100	1.216	1.240	1707	1596	1.62e6	1.28e6	949.4	801.6	NO	db	dd	59.097
123789-HxCDF	36.612	1.000	7.572e4	5.955e4	1.066	1.271	1.240	1707	1596	1.10e6	8.77e5	646.4	549.9	NO	bb	bb	53.089
1234678-HpCDF	38.461	1.000	9.612e4	9.399e4	1.210	1.023	1.050	1335	1146	1.51e6	1.45e6	1132.4	1268.0	NO	bd	bd	58.446
1234789-HpCDF	40.656	1.000	7.233e4	6.711e4	1.213	1.078	1.050	1335	1146	9.92e5	9.28e5	743.0	809.4	NO	bd	bd	56.999
OCDF	44.801	1.006	1.173e5	1.270e5	1.391	0.923	0.890	2199	1619	1.36e6	1.44e6	617.6	888.9	NO	bd	bd	89.227
2378-TCDD	26.085	1.001	2.051e4	2.565e4	1.197	0.800	0.770	819	660	3.17e5	3.99e5	387.5	604.9	NO	bb	bb	10.581
12378-PeCDD	31.186	1.001	1.011e5	6.237e4	1.129	1.621	1.550	1148	856	1.46e6	9.10e5	1274.8	1062.1	NO	bd	bb	57.804
123478-HxCDD	35.698	1.001	7.450e4	6.200e4	0.917	1.202	1.240	1102	1217	1.15e6	9.66e5	1042.9	793.6	NO	bd	bd	52.715
123678-HxCDD	35.809	1.000	8.726e4	7.065e4	0.944	1.235	1.240	1102	1217	1.24e6	1.04e6	1123.2	853.7	NO	db	dd	53.840
123789-HxCDD	36.199	1.011	7.747e4	6.458e4	0.869	1.200	1.240	1102	1217	1.17e6	9.61e5	1062.1	789.6	NO	bb	bd	55.131
1234678-HpCDD	39.932	1.000	6.370e4	6.615e4	1.237	0.963	1.050	1141	1240	9.64e5	9.37e5	845.0	755.5	NO	bb	bd	52.360
OCDD	44.563	1.000	1.164e5	1.324e5	1.212	0.879	0.890	1707	1465	1.40e6	1.61e6	820.2	1100.5	NO	bb	bb	104.240
13C-2378-TCDF	25.435	1.007	2.305e5	2.917e5	1.920	0.790	0.770	1244	1127	3.47e6	4.32e6	2788.8	3831.4	NO	bb	bb	66.234
13C-12378-PeCDF	29.581	1.171	2.741e5	1.749e5	1.455	1.567	1.550	2327	1622	4.01e6	2.59e6	1722.7	1598.6	NO	bb	bb	75.134
13C-23478-PeCDF	30.918	1.224	2.492e5	1.621e5	1.363	1.538	1.550	2327	1622	3.65e6	2.37e6	1568.3	1463.7	NO	bb	bb	73.489
13C-123478-HxCDF	34.550	0.955	9.785e4	1.878e5	1.119	0.521	0.510	1619	2122	1.49e6	2.93e6	920.3	1379.3	NO	bd	bd	66.304
13C-123678-HxCDF	34.695	0.959	1.064e5	2.071e5	1.343	0.514	0.510	1619	2122	1.55e6	2.96e6	956.7	1393.6	NO	db	db	60.620
13C-234678-HxCDF	35.564	0.983	9.526e4	1.846e5	1.113	0.516	0.510	1619	2122	1.44e6	2.81e6	888.1	1323.0	NO	bd	bb	65.334
13C-123789-HxCDF	36.600	1.011	8.018e4	1.587e5	0.959	0.505	0.510	1619	2122	1.17e6	2.34e6	725.3	1102.0	NO	bb	bb	64.734
13C-1234678-HpCDF	38.450	1.063	8.622e4	1.827e5	1.058	0.472	0.440	1280	1862	1.33e6	3.05e6	1039.6	1637.0	NO	bd	bb	65.980
13C-1234789-HpCDF	40.645	1.123	6.189e4	1.399e5	0.809	0.442	0.440	1280	1862	9.31e5	2.02e6	726.9	1082.6	NO	bb	bb	64.797
13C-1234-TCDD	25.252	0.000	1.809e5	2.298e5	1.000	0.788	0.770	1555	1049	2.81e6	3.56e6	1806.6	3396.1	NO	bb	bb	100.000
13C-2378-TCDD	26.071	1.032	1.602e5	2.044e5	1.104	0.784	0.770	1555	1049	2.36e6	2.98e6	1519.5	2844.6	NO	bb	bb	80.390
13C-12378-PeCDD	31.163	1.234	1.556e5	9.485e4	0.770	1.640	1.550	1351	893	2.24e6	1.38e6	1657.2	1539.4	NO	bb	bb	79.163
13C-123478-HxCDD	35.676	0.986	1.574e5	1.249e5	0.959	1.260	1.240	1819	1109	2.42e6	1.92e6	1329.6	1731.8	NO	bd	bd	76.441
13C-123678-HxCDD	35.798	0.989	1.749e5	1.358e5	1.120	1.288	1.240	1819	1109	2.51e6	2.01e6	1381.2	1812.7	NO	dd	db	72.030
13C-1234678-HpCDD	39.921	1.103	1.034e5	9.716e4	0.640	1.064	1.050	1631	1052	1.55e6	1.44e6	952.4	1372.0	NO	bb	bb	81.327
13C-OCDD	44.554	1.231	1.887e5	2.051e5	0.555	0.920	0.890	1922	1766	2.33e6	2.58e6	1210.6	1463.0	NO	bb	bb	184.142
13C-123789-HxCDD	36.188	0.000	2.141e5	1.710e5	1.000	1.252	1.240	1819	1109	3.09e6	2.43e6	1698.5	2194.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.085	1.033	1.578e5		1.129			1081		2.39e6		2213.2			bb		34.028

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:18 Pacific Daylight Time

ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, 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					1.201		0.770	886	935								
1289-TCDF					0.950		0.770	886	935								
13468-PECDF					1.142		1.550	512	680								
12389-PECDF	31.977	1.081	1.126e3	6.845e2	0.917	1.646	1.550	2969	1461	1.76e4	1.10e4	5.9	7.5	NO	db	bb	0.440
123468-HXCDF					1.332		1.240	1707	1596								
1368-TCDD					1.148		0.770	819	660								
1289-TCDD					0.955		0.770	819	660								
12479-PECDD					2.043		1.550	1148	856								
12389-PECDD					1.326		1.550	1148	856								
124679-HXCDD					1.104		1.240	1102	1217								
1234679-HPCDD	38.907	0.975	1.992e3	2.092e3	1.554	0.952	1.050	1141	1240	2.90e4	3.18e4	25.4	25.6	NO	bb	bd	1.310
Total-tetrafurans			2.272e4		1.034			886		3.54e5							10.477
Total-penta1			0.000e0					512		0.00e0							
Total-pentafurans			2.901e5		0.984			2969		4.29e6							108.060
Total-hexafurans			3.901e5		1.155			1707		5.71e6							223.706
Total-heptafurans			1.685e5		1.211			1335		2.50e6							115.445
Total-Furans			9.886e5		1.119			886		1.42e7							546.914
Total-tetradoxins			2.107e4		1.100			819		3.25e5							10.911
Total-pentadoxins			1.011e5		1.499			1148		1.46e6							57.804
Total-hexadoxins			2.392e5		0.958			1102		3.56e6							161.686
Total-heptadoxins			6.569e4		1.396			1141		9.93e5							53.670
Total-Dioxins			5.435e5		1.203			819		7.74e6							388.312
Total-TEQ			1.532e6					819		2.20e7							935.226
FUNCTION1 PFK			3.724e5					306656		4.63e6							
FUNCTION2 PFK			0.000e0					219180		0.00e0							
FUNCTION3 PFK			1.263e5					246351		4.05e6							0.000
FUNCTION4 PFK			1.487e5					230350		4.11e6							
FUNCTION5 PFK			9.742e4					147714		3.64e6							
FUNCTION1 HXCD...			6.961e2					499		6.19e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			2.555e2					778		4.10e3							0.000
FUNCTION3 OCDPE			3.982e2					496		5.60e3							0.000
FUNCTION4 NCDPE			4.600e2					706		8.53e3							0.000
FUNCTION5 DCDPE			1.481e2					511		1.44e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

Printed: Tuesday, August 01, 2023 08:20:18 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29**Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35****ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, 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	25.45	2.272e4	2.933e4	0.951	0.77	0.77	399.7	YES	NO	bb	bb	10.477

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	31.98	1.126e3	6.845e2	0.917	1.65	1.55	5.9	YES	NO	db	bb	0.440
2	23478-PeCDF	30.93	1.468e5	9.131e4	1.072	1.61	1.55	732.6	YES	NO	bb	bb	54.009
3	12378-PeCDF	29.60	1.421e5	8.967e4	0.963	1.59	1.55	705.4	YES	NO	bb	bb	53.611

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.59	1.012e5	7.629e4	1.138	1.33	1.24	857.0	YES	NO	bd	bb	55.733
2	123678-HxCDF	34.71	1.118e5	9.191e4	1.100	1.22	1.24	949.4	YES	NO	db	dd	59.097
3	123478-HxCDF	34.57	1.014e5	8.051e4	1.142	1.26	1.24	889.9	YES	NO	bd	bd	55.785
4	123789-HxCDF	36.61	7.572e4	5.955e4	1.066	1.27	1.24	646.4	YES	NO	bb	bb	53.089

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.66	7.233e4	6.711e4	1.213	1.08	1.05	743.0	YES	NO	bd	bd	56.999
2	1234678-HpCDF	38.46	9.612e4	9.399e4	1.210	1.02	1.05	1132.4	YES	NO	bd	bd	58.446

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:18 Pacific Daylight Time

ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, 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	25.45	2.272e4	2.933e4	0.951	0.77	0.77	399.7	YES	NO	bb	bb	10.477
2	12389-PECDF	31.98	1.126e3	6.845e2	0.917	1.65	1.55	5.9	YES	NO	db	bb	0.440
3	23478-PeCDF	30.93	1.468e5	9.131e4	1.072	1.61	1.55	732.6	YES	NO	bb	bb	54.009
4	12378-PeCDF	29.60	1.421e5	8.967e4	0.963	1.59	1.55	705.4	YES	NO	bb	bb	53.611
5	234678-HxCDF	35.59	1.012e5	7.629e4	1.138	1.33	1.24	857.0	YES	NO	bd	bb	55.733
6	123678-HxCDF	34.71	1.118e5	9.191e4	1.100	1.22	1.24	949.4	YES	NO	db	dd	59.097
7	123478-HxCDF	34.57	1.014e5	8.051e4	1.142	1.26	1.24	889.9	YES	NO	bd	bd	55.785
8	123789-HxCDF	36.61	7.572e4	5.955e4	1.066	1.27	1.24	646.4	YES	NO	bb	bb	53.089
9	1234789-HpCDF	40.66	7.233e4	6.711e4	1.213	1.08	1.05	743.0	YES	NO	bd	bd	56.999
10	1234678-HpCDF	38.46	9.612e4	9.399e4	1.210	1.02	1.05	1132.4	YES	NO	bd	bd	58.446
11	OCDF	44.80	1.173e5	1.270e5	1.391	0.92	0.89	617.6	YES	NO	bd	bd	89.227

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.09	2.051e4	2.565e4	1.197	0.80	0.77	387.5	YES	NO	bb	bb	10.581
2	Total-tetradoxins	25.72	5.545e2	7.691e2	1.100	0.72	0.77	8.9	YES	NO	bb	bb	0.330

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.19	1.011e5	6.237e4	1.129	1.62	1.55	1274.8	YES	NO	bd	bb	57.804

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.20	7.747e4	6.458e4	0.869	1.20	1.24	1062.1	YES	NO	bb	bd	55.131
2	123678-HxCDD	35.81	8.726e4	7.065e4	0.944	1.24	1.24	1123.2	YES	NO	db	dd	53.840
3	123478-HxCDD	35.70	7.450e4	6.200e4	0.917	1.20	1.24	1042.9	YES	NO	bd	bd	52.715

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.93	6.370e4	6.615e4	1.237	0.96	1.05	845.0	YES	NO	bb	bd	52.360
2	1234679-HPCDD	38.91	1.992e3	2.092e3	1.554	0.95	1.05	25.4	YES	NO	bb	bd	1.310

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:18 Pacific Daylight Time

ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, 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	2378-TCDD	26.09	2.051e4	2.565e4	1.197	0.80	0.77	387.5	YES	NO	bb	bb	10.581
2	Total-tetradoxins	25.72	5.545e2	7.691e2	1.100	0.72	0.77	8.9	YES	NO	bb	bb	0.330
3	12378-PeCDD	31.19	1.011e5	6.237e4	1.129	1.62	1.55	1274.8	YES	NO	bd	bb	57.804
4	123789-HxCDD	36.20	7.747e4	6.458e4	0.869	1.20	1.24	1062.1	YES	NO	bb	bd	55.131
5	123678-HxCDD	35.81	8.726e4	7.065e4	0.944	1.24	1.24	1123.2	YES	NO	db	dd	53.840
6	123478-HxCDD	35.70	7.450e4	6.200e4	0.917	1.20	1.24	1042.9	YES	NO	bd	bd	52.715
7	1234678-HpCDD	39.93	6.370e4	6.615e4	1.237	0.96	1.05	845.0	YES	NO	bb	bd	52.360
8	1234679-HPCDD	38.91	1.992e3	2.092e3	1.554	0.95	1.05	25.4	YES	NO	bb	bd	1.310
9	OCDD	44.56	1.164e5	1.324e5	1.212	0.88	0.89	820.2	YES	NO	bb	bb	104.240

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.45	2.272e4	2.933e4	0.951	0.77	0.77	399.7	YES	NO	bb	bb	10.477
2	12389-PECDF	31.98	1.126e3	6.845e2	0.917	1.65	1.55	5.9	YES	NO	db	bb	0.440
3	23478-PeCDF	30.93	1.468e5	9.131e4	1.072	1.61	1.55	732.6	YES	NO	bb	bb	54.009
4	12378-PeCDF	29.60	1.421e5	8.967e4	0.963	1.59	1.55	705.4	YES	NO	bb	bb	53.611
5	234678-HxCDF	35.59	1.012e5	7.629e4	1.138	1.33	1.24	857.0	YES	NO	bd	bb	55.733
6	123678-HxCDF	34.71	1.118e5	9.191e4	1.100	1.22	1.24	949.4	YES	NO	db	dd	59.097
7	123478-HxCDF	34.57	1.014e5	8.051e4	1.142	1.26	1.24	889.9	YES	NO	bd	bd	55.785
8	123789-HxCDF	36.61	7.572e4	5.955e4	1.066	1.27	1.24	646.4	YES	NO	bb	bb	53.089
9	1234789-HpCDF	40.66	7.233e4	6.711e4	1.213	1.08	1.05	743.0	YES	NO	bd	bd	56.999
10	1234678-HpCDF	38.46	9.612e4	9.399e4	1.210	1.02	1.05	1132.4	YES	NO	bd	bd	58.446
11	OCDF	44.80	1.173e5	1.270e5	1.391	0.92	0.89	617.6	YES	NO	bd	bd	89.227
12	2378-TCDD	26.09	2.051e4	2.565e4	1.197	0.80	0.77	387.5	YES	NO	bb	bb	10.581
13	Total-tetradoxins	25.72	5.545e2	7.691e2	1.100	0.72	0.77	8.9	YES	NO	bb	bb	0.330
14	12378-PeCDD	31.19	1.011e5	6.237e4	1.129	1.62	1.55	1274.8	YES	NO	bd	bb	57.804
15	123789-HxCDD	36.20	7.747e4	6.458e4	0.869	1.20	1.24	1062.1	YES	NO	bb	bd	55.131
16	123678-HxCDD	35.81	8.726e4	7.065e4	0.944	1.24	1.24	1123.2	YES	NO	db	dd	53.840
17	123478-HxCDD	35.70	7.450e4	6.200e4	0.917	1.20	1.24	1042.9	YES	NO	bd	bd	52.715
18	1234678-HpCDD	39.93	6.370e4	6.615e4	1.237	0.96	1.05	845.0	YES	NO	bb	bd	52.360
19	1234679-HPCDD	38.91	1.992e3	2.092e3	1.554	0.95	1.05	25.4	YES	NO	bb	bd	1.310
20	OCDD	44.56	1.164e5	1.324e5	1.212	0.88	0.89	820.2	YES	NO	bb	bb	104.240

ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, 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	21.25	7.889e3					1.2	NO		bb		
2	FUNCTION1 PFK	21.13	5.384e3					1.2	NO		bb		
3	FUNCTION1 PFK	26.52	2.050e4					1.9	NO		bb		
4	FUNCTION1 PFK	24.67	4.119e4					1.9	NO		bb		
5	FUNCTION1 PFK	23.50	9.879e4					0.9	NO		bb		
6	FUNCTION1 PFK	21.97	1.335e5					3.3	YES		db		
7	FUNCTION1 PFK	21.90	2.692e4					2.4	NO		bd		
8	FUNCTION1 PFK	21.54	3.060e4					1.5	NO		bb		
9	FUNCTION1 PFK	21.32	7.568e3					0.7	NO		bb		

PFK2

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

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.88	1.797e3					0.7	NO		bb		0.000
2	FUNCTION3 PFK	34.35	2.082e4					2.5	NO		bb		0.000
3	FUNCTION3 PFK	34.06	9.578e3					1.5	NO		db		0.000
4	FUNCTION3 PFK	34.02	9.578e3					1.4	NO		bd		0.000
5	FUNCTION3 PFK	33.69	4.598e3					0.9	NO		bb		0.000
6	FUNCTION3 PFK	33.53	9.239e3					1.4	NO		bb		0.000
7	FUNCTION3 PFK	32.68	1.093e4					1.8	NO		bb		0.000
8	FUNCTION3 PFK	36.93	1.183e4					1.9	NO		bb		0.000
9	FUNCTION3 PFK	36.75	1.554e3					0.6	NO		bb		0.000
10	FUNCTION3 PFK	36.53	9.234e3					0.7	NO		bb		0.000
11	FUNCTION3 PFK	36.33	3.968e3					0.8	NO		bb		0.000
12	FUNCTION3 PFK	36.12	3.875e3					1.0	NO		bb		0.000
13	FUNCTION3 PFK	35.32	2.925e4					1.4	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, 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	41.53	3.414e3					0.8	NO		bb		
2	FUNCTION4 PFK	40.77	5.402e3					1.1	NO		bb		
3	FUNCTION4 PFK	40.22	9.618e3					1.4	NO		db		
4	FUNCTION4 PFK	40.11	1.623e4					1.2	NO		bd		
5	FUNCTION4 PFK	39.84	1.284e4					2.4	NO		bb		
6	FUNCTION4 PFK	39.58	6.724e3					1.3	NO		bb		
7	FUNCTION4 PFK	38.91	1.290e4					1.3	NO		bb		
8	FUNCTION4 PFK	37.64	1.253e4					1.6	NO		db		
9	FUNCTION4 PFK	37.58	2.145e4					2.6	NO		bd		
10	FUNCTION4 PFK	42.62	3.568e4					1.9	NO		bb		
11	FUNCTION4 PFK	42.53	1.015e4					1.5	NO		bb		
12	FUNCTION4 PFK	42.26	1.796e3					0.7	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.74	4.100e3					1.4	NO		bb		
2	FUNCTION5 PFK	44.53	8.070e3					1.6	NO		bb		
3	FUNCTION5 PFK	44.32	3.807e3					1.2	NO		bb		
4	FUNCTION5 PFK	44.27	6.329e3					1.7	NO		bb		
5	FUNCTION5 PFK	44.21	4.613e3					1.4	NO		bb		
6	FUNCTION5 PFK	44.11	5.961e3					1.3	NO		bb		
7	FUNCTION5 PFK	43.60	1.279e3					0.6	NO		bb		
8	FUNCTION5 PFK	43.45	4.415e3					1.5	NO		bb		
9	FUNCTION5 PFK	43.24	1.297e3					0.7	NO		db		
10	FUNCTION5 PFK	43.22	7.912e3					1.1	NO		bd		
11	FUNCTION5 PFK	43.10	1.748e4					2.7	NO		db		
12	FUNCTION5 PFK	43.07	4.088e3					1.3	NO		bd		
13	FUNCTION5 PFK	45.72	2.877e3					1.0	NO		bb		
14	FUNCTION5 PFK	45.53	4.731e3					1.7	NO		bb		
15	FUNCTION5 PFK	45.48	6.394e3					1.4	NO		bb		
16	FUNCTION5 PFK	45.41	8.028e2					0.6	NO		bb		
17	FUNCTION5 PFK	45.14	4.888e3					1.0	NO		bb		
18	FUNCTION5 PFK	44.78	8.383e3					2.3	NO		bb		

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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, 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...	26.10	9.746e1					2.4	NO		bb		0.000
2	FUNCTION1 HXCD...	25.24	9.155e1					2.0	NO		bb		0.000
3	FUNCTION1 HXCD...	24.38	9.034e1					2.1	NO		bb		0.000
4	FUNCTION1 HXCD...	21.88	1.781e2					2.9	NO		bb		0.000
5	FUNCTION1 HXCD...	21.34	2.386e2					3.0	NO		bb		0.000

ETHERS2

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

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.81	1.016e2					1.5	NO		bb		0.000
2	FUNCTION2 HPCD...	30.39	7.242e1					1.8	NO		bb		0.000
3	FUNCTION2 HPCD...	28.73	8.154e1					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	36.19	1.289e2					3.4	YES		bb		0.000
2	FUNCTION3 OCDPE	35.97	9.778e1					2.9	NO		bb		0.000
3	FUNCTION3 OCDPE	34.18	8.857e1					2.3	NO		bb		0.000
4	FUNCTION3 OCDPE	32.60	8.297e1					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	40.03	8.341e1					2.5	NO		bb		0.000
2	FUNCTION4 NCDPE	39.66	8.609e1					2.4	NO		db		0.000
3	FUNCTION4 NCDPE	39.58	1.097e2					2.5	NO		bd		0.000
4	FUNCTION4 NCDPE	39.07	8.392e1					2.2	NO		bb		0.000
5	FUNCTION4 NCDPE	38.93	9.687e1					2.4	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk**ETHERS6**

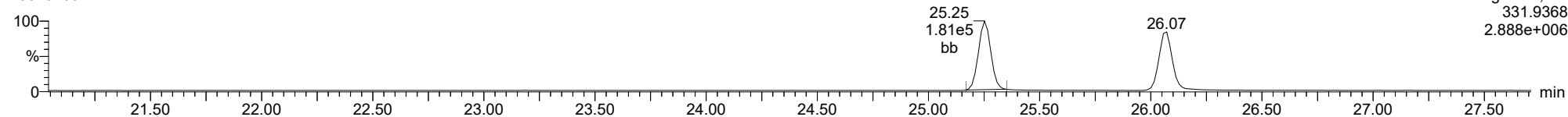
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1	FUNCTION5 DCDPE	43.85	1.481e2					2.8	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

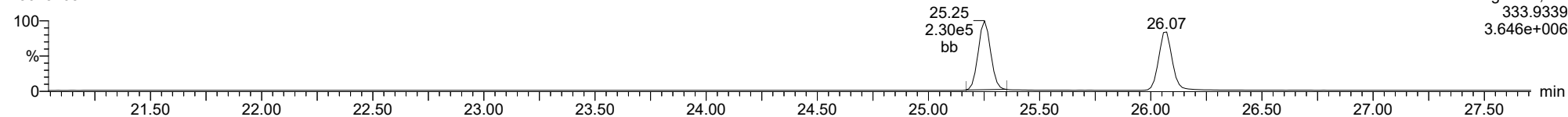
13C-1234-TCDD

23073105



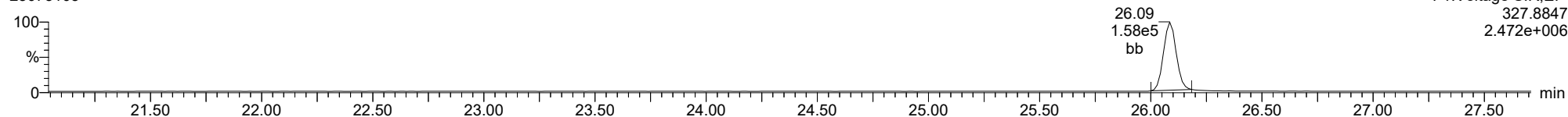
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23073105



37CL-2378-TCDD

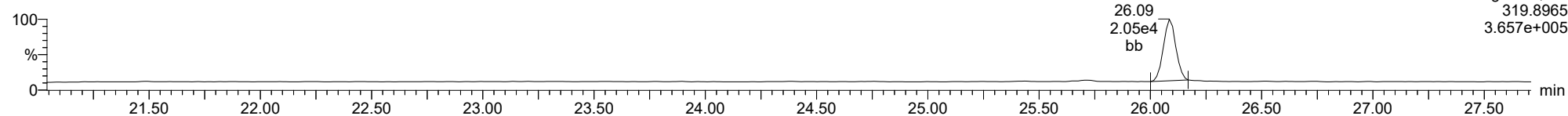
23073105



ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

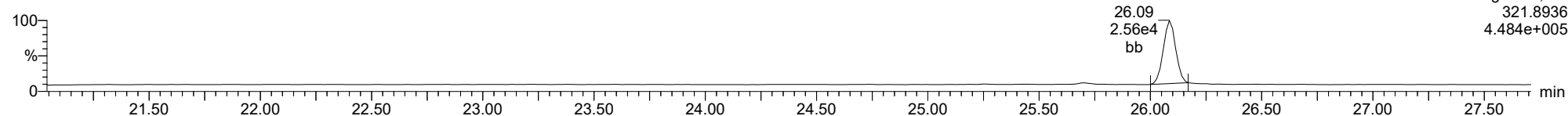
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23073105



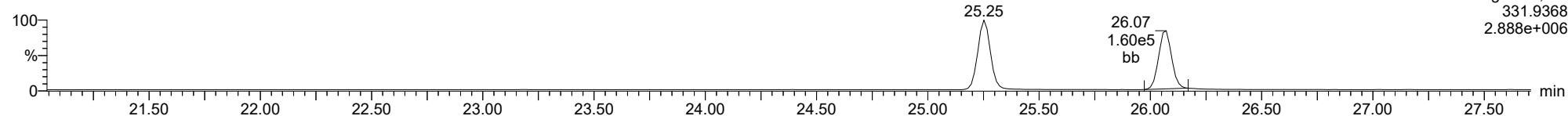
2378-TCDD

23073105



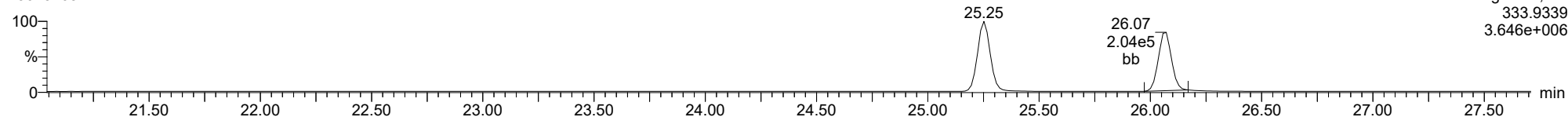
13C-2378-TCDD

23073105



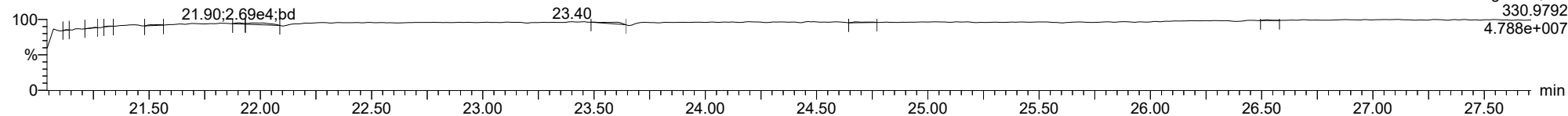
13C-2378-TCDD

23073105



FUNCTION1 PFK

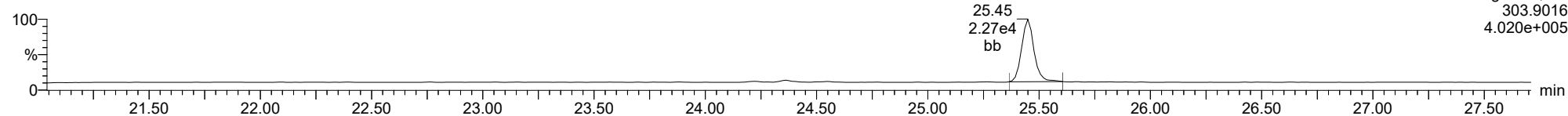
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

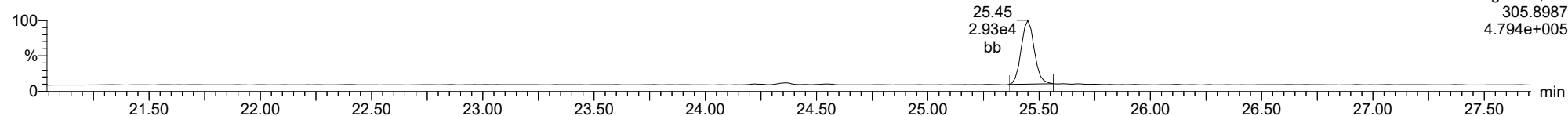
2378-TCDF

23073105



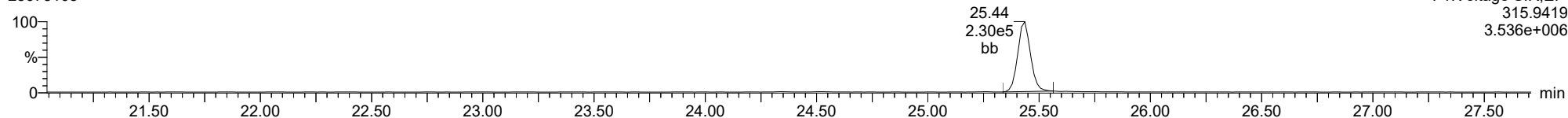
2378-TCDF

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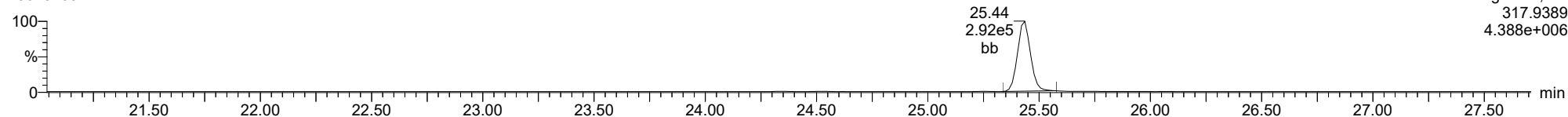
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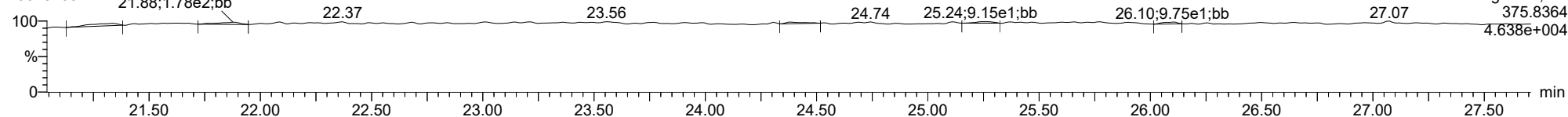
13C-2378-TCDF

23073105



FUNCTION1 HXCDPE

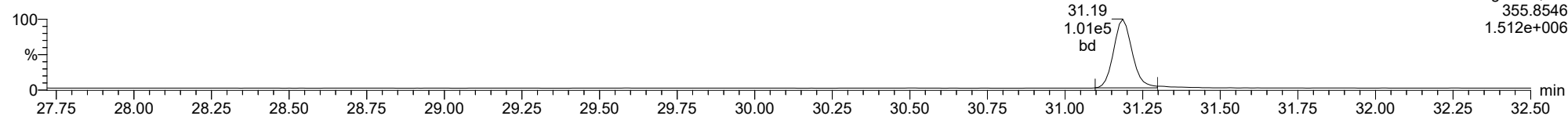
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

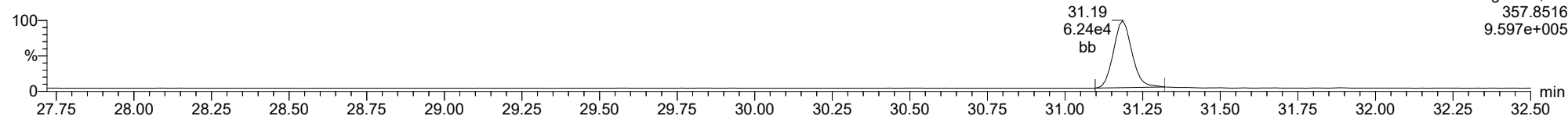
12378-PeCDD

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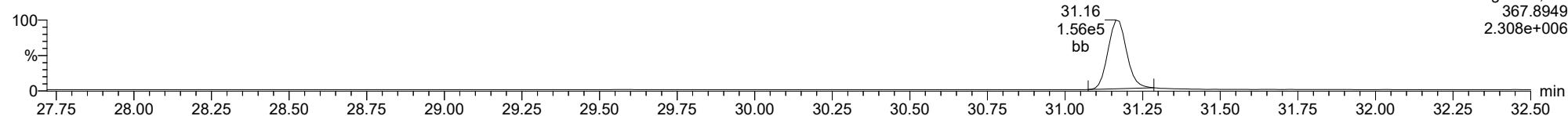
12378-PeCDD

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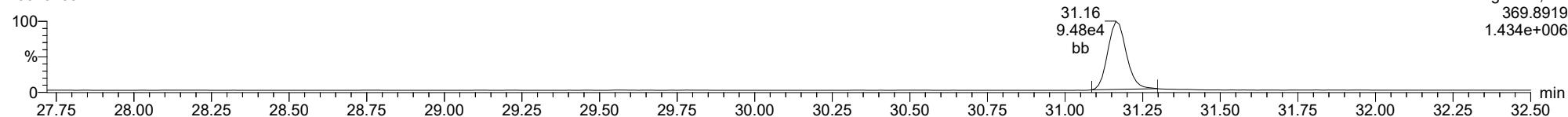
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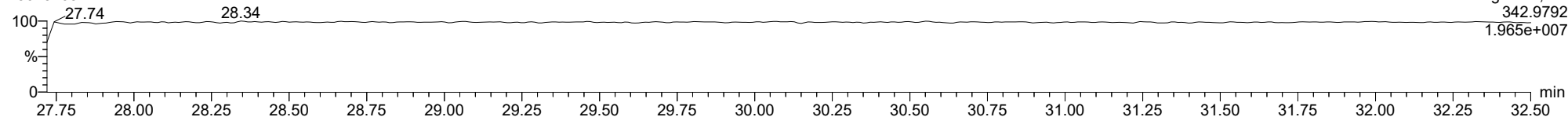
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FUNCTION2 PFK

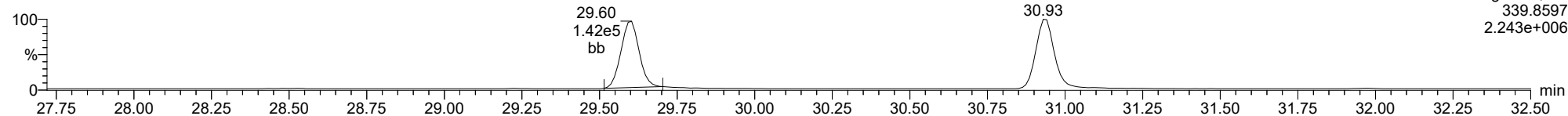
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

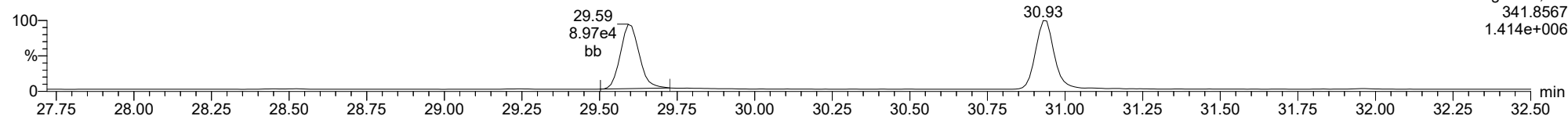
12378-PeCDF

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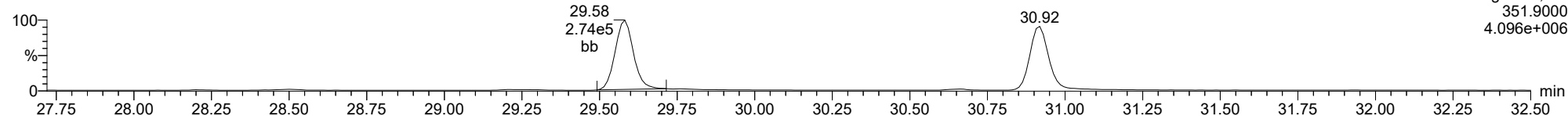
12378-PeCDF

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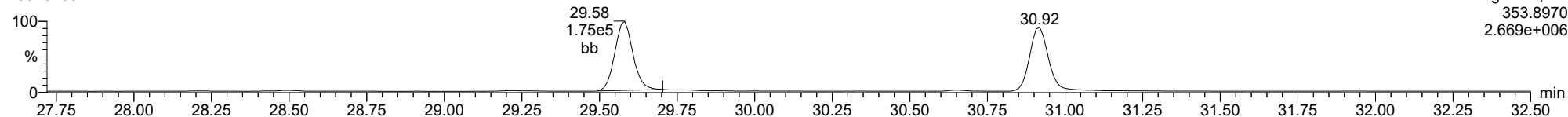
13C-12378-PeCDF

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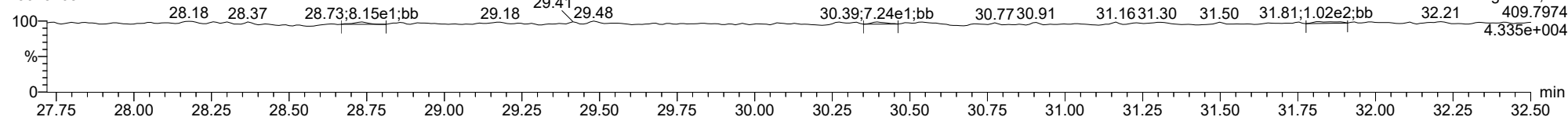
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FUNCTION2 HPCDPE

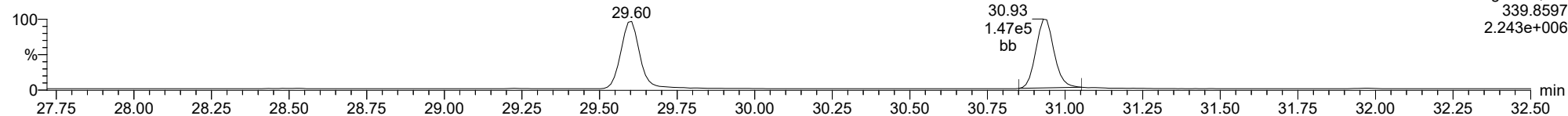
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

23478-PeCDF

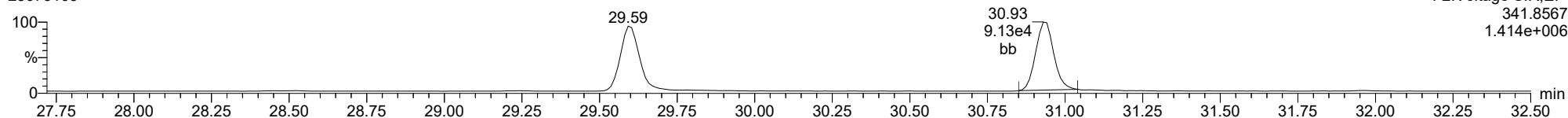
23073105



F2:Voltage SIR,EI+
339.8597
2.243e+006

23478-PeCDF

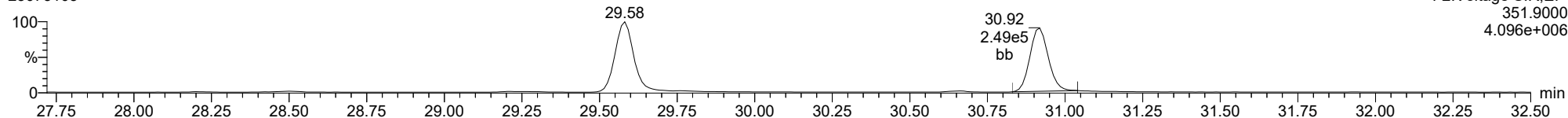
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F2:Voltage SIR,EI+
341.8567
1.414e+006

13C-23478-PeCDF

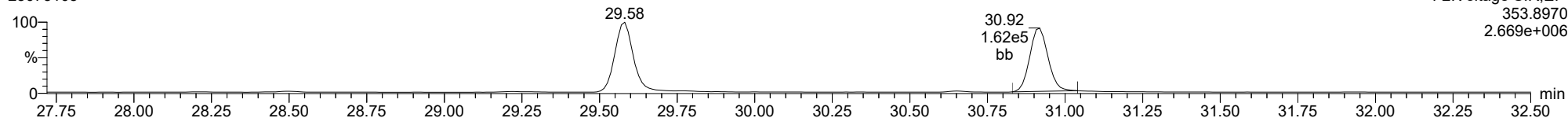
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F2:Voltage SIR,EI+
351.9000
4.096e+006

13C-23478-PeCDF

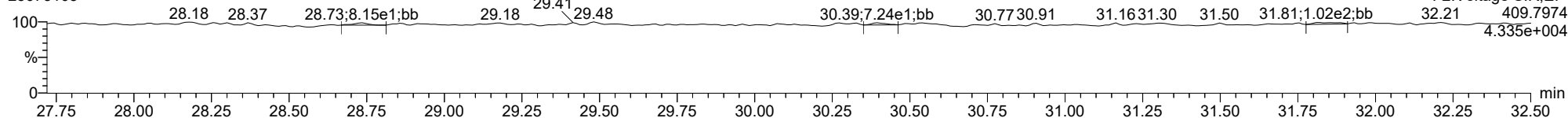
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F2:Voltage SIR,EI+
353.8970
2.669e+006

FUNCTION2 HPCDPE

23073105

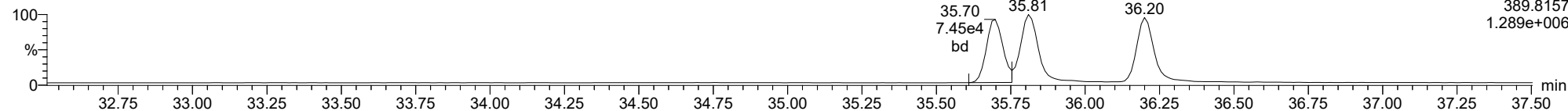


F2:Voltage SIR,EI+
409.7974
4.335e+004

ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

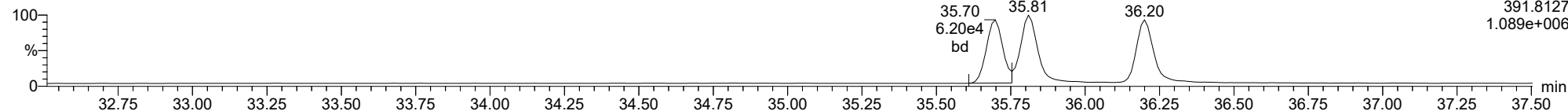
123478-HxCDD

23073105



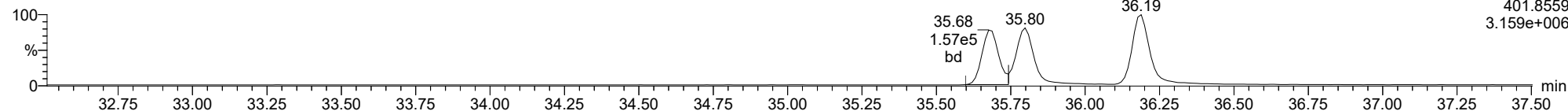
123478-HxCDD

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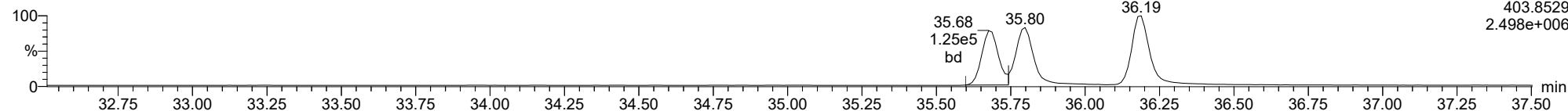
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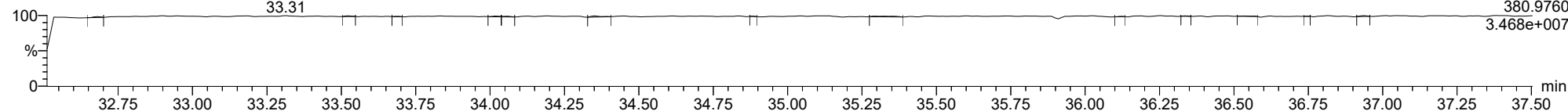
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FUNCTION3 PFK

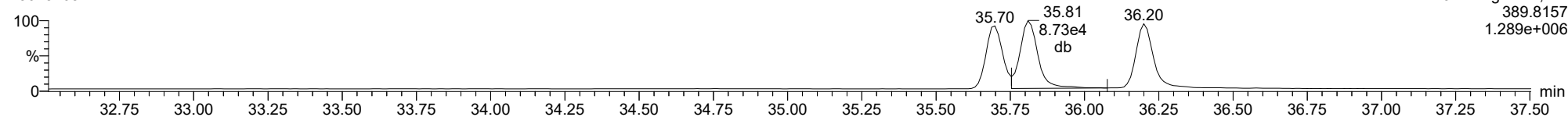
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

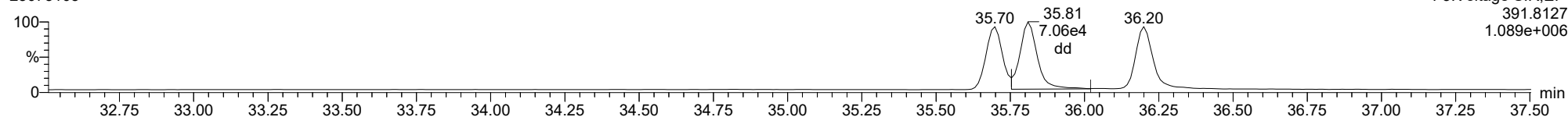
123678-HxCDD

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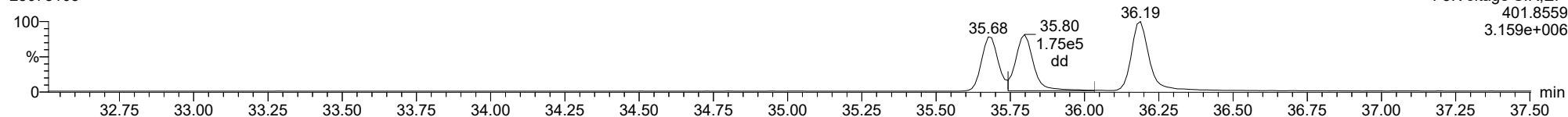
123678-HxCDD

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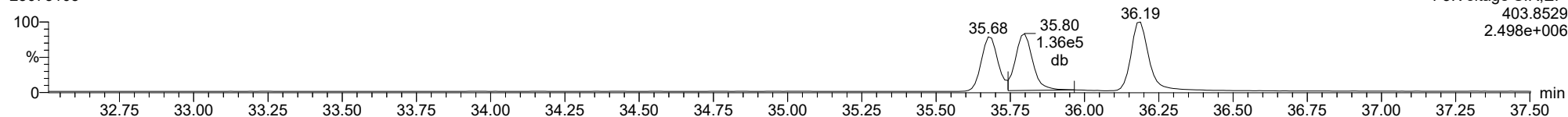
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13C-123678-HxCDD

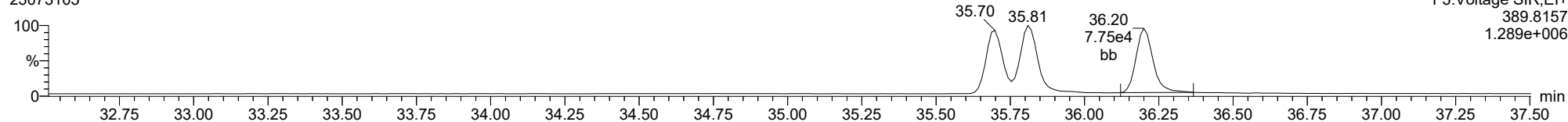
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

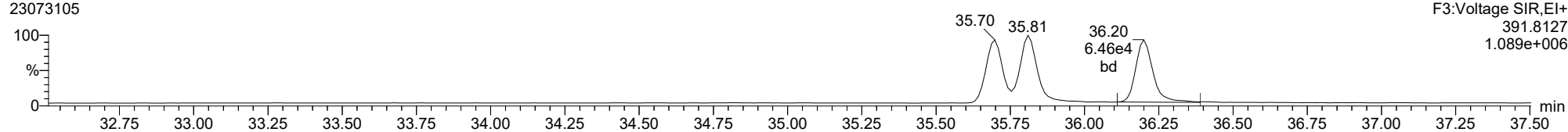
123789-HxCDD

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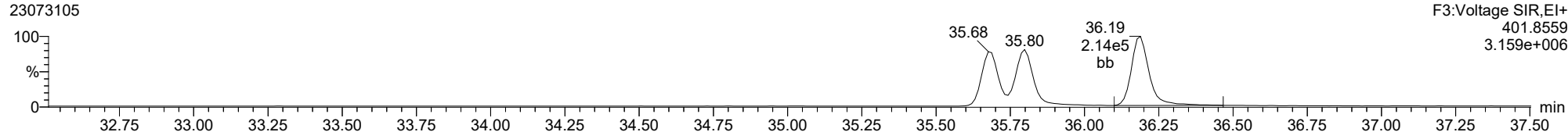
123789-HxCDD

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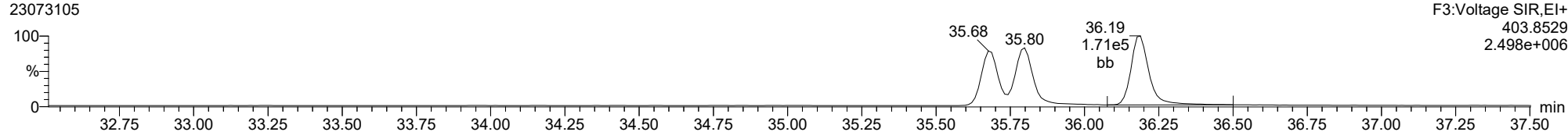
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13C-123789-HxCDD

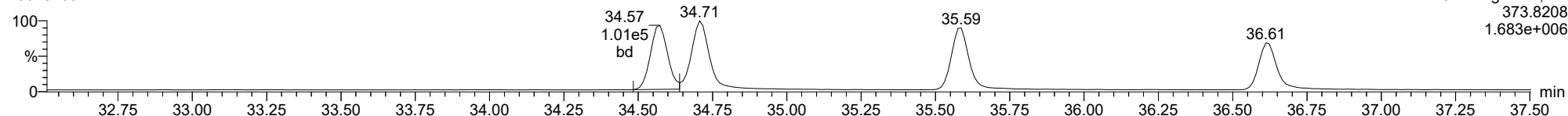
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

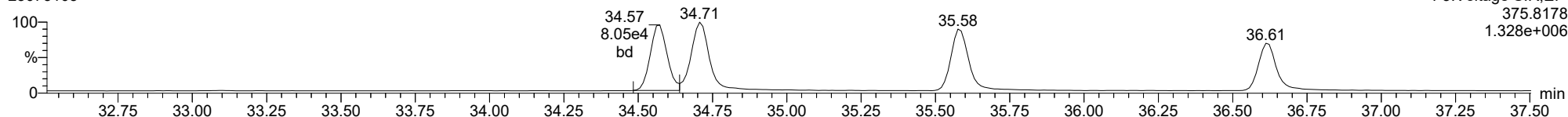
123478-HxCDF

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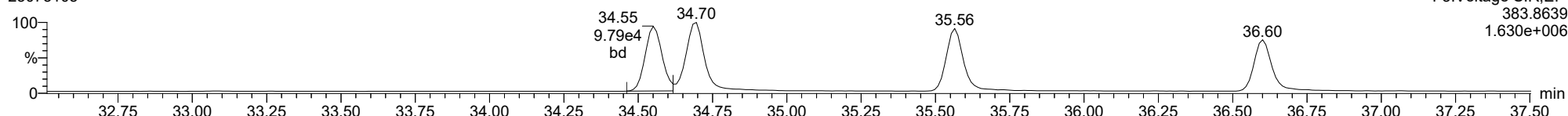
123478-HxCDF

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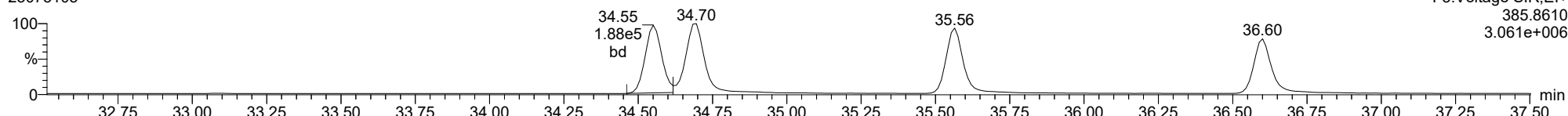
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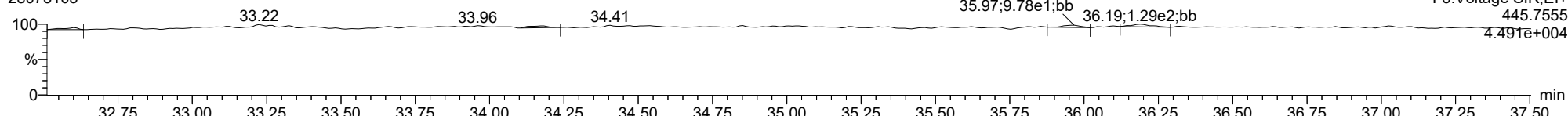
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23073105



FUNCTION3 OCDPE

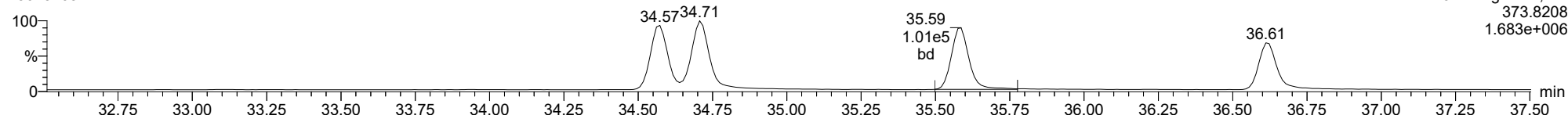
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

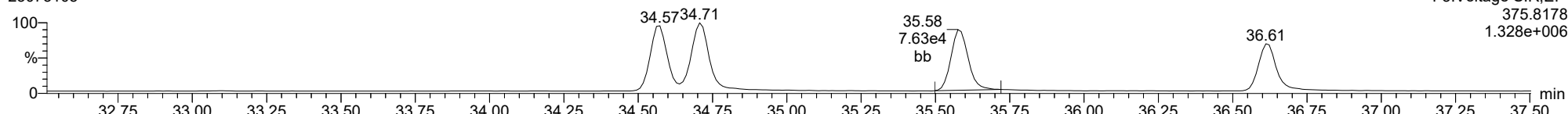
234678-HxCDF

23073105



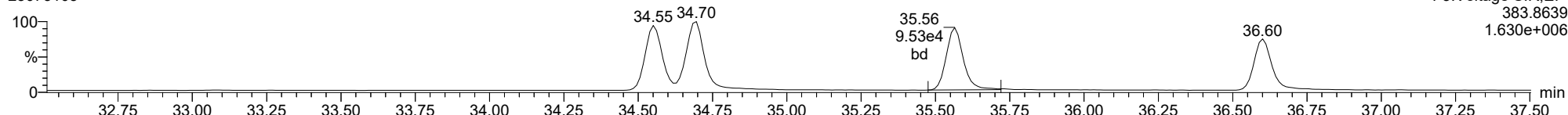
234678-HxCDF

23073105



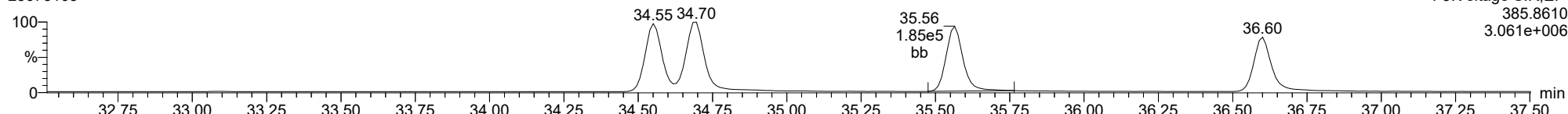
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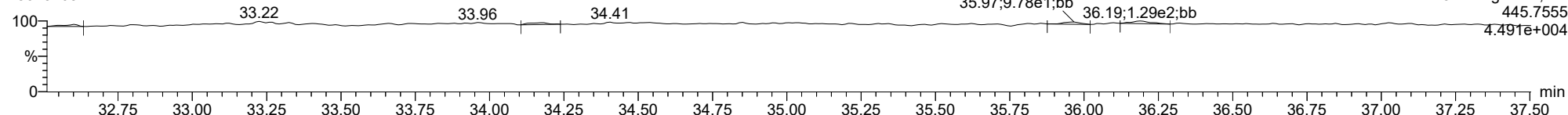
13C-234678-HxCDF

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FUNCTION3 OCDPE

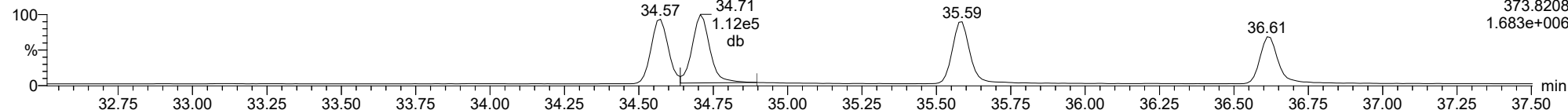
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

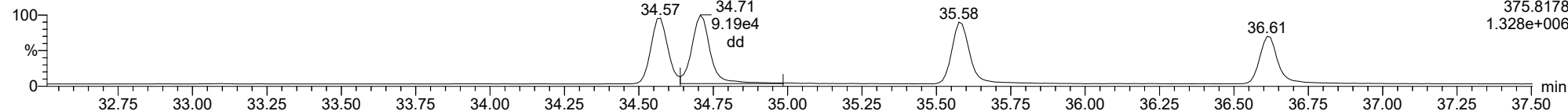
123678-HxCDF

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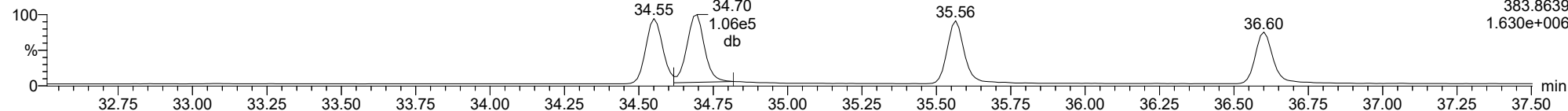
123678-HxCDF

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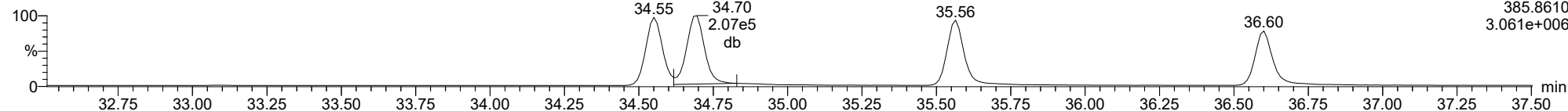
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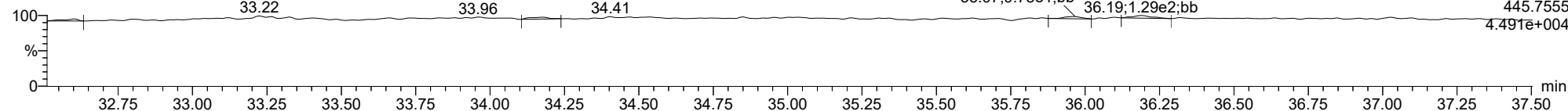
13C-123678-HxCDF

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FUNCTION3 OCDPE

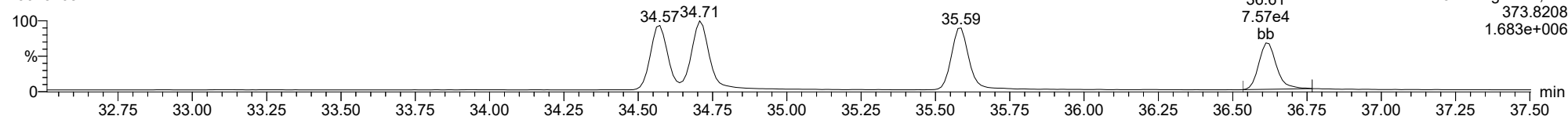
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

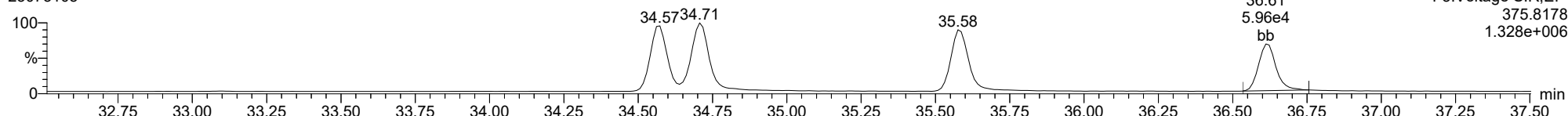
123789-HxCDF

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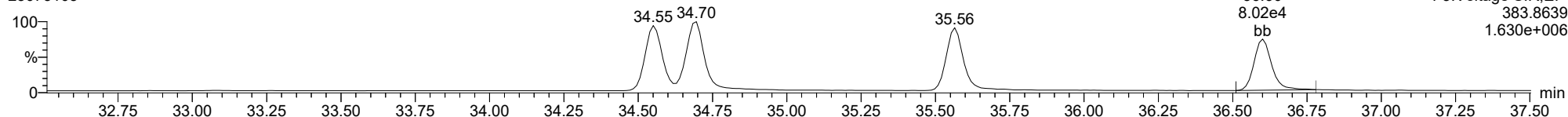
123789-HxCDF

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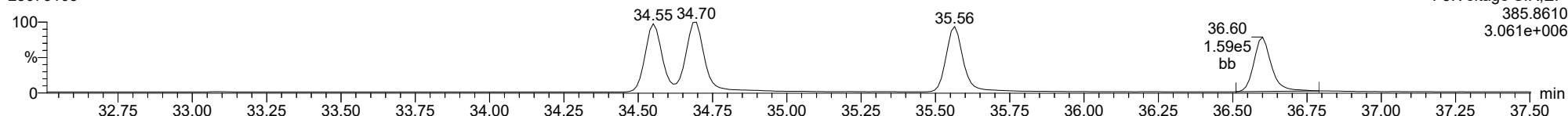
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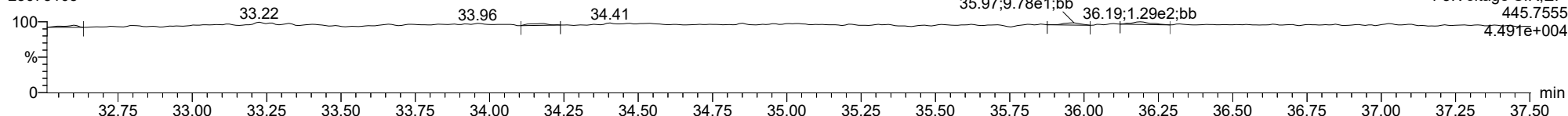
13C-123789-HxCDF

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FUNCTION3 OCDPE

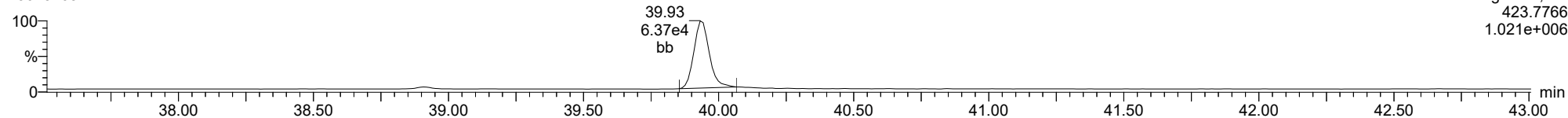
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

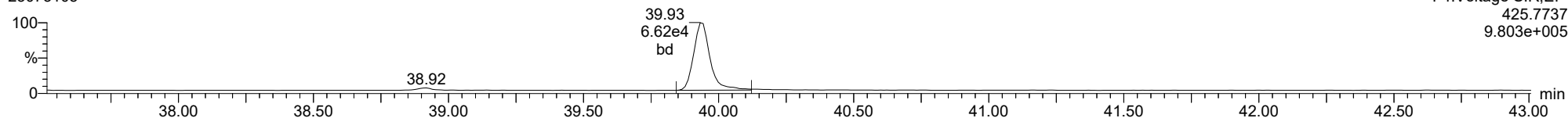
1234678-HpCDD

23073105



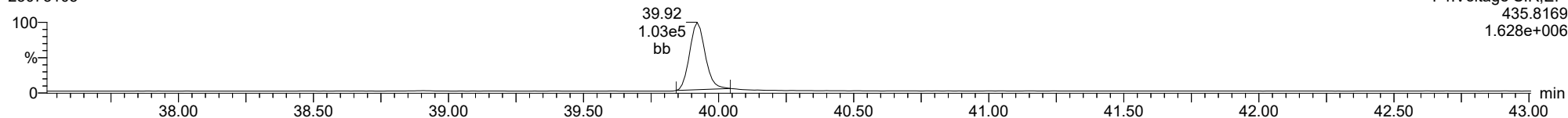
1234678-HpCDD

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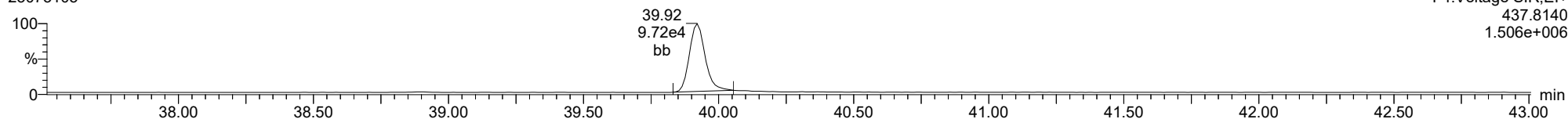
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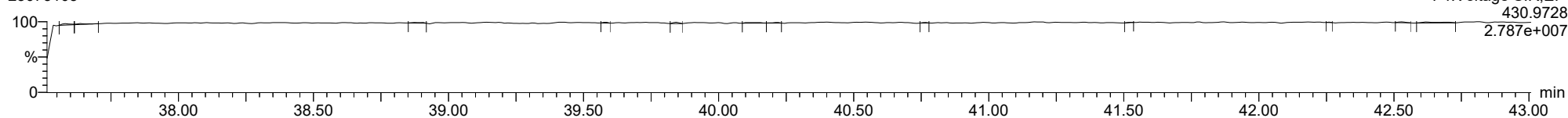
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23073105



FUNCTION4 PFK

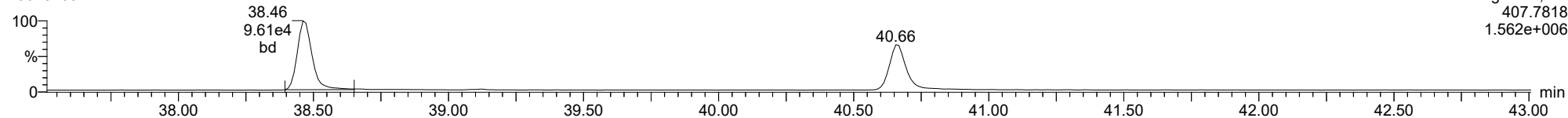
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

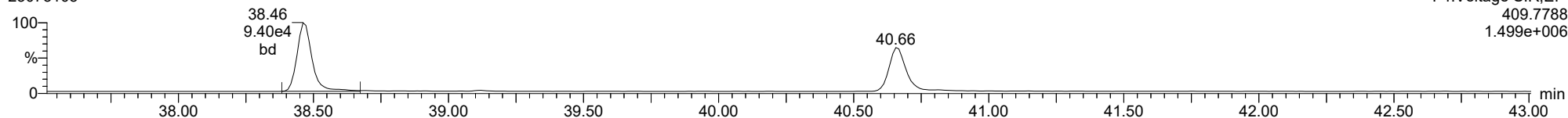
1234678-HpCDF

23073105



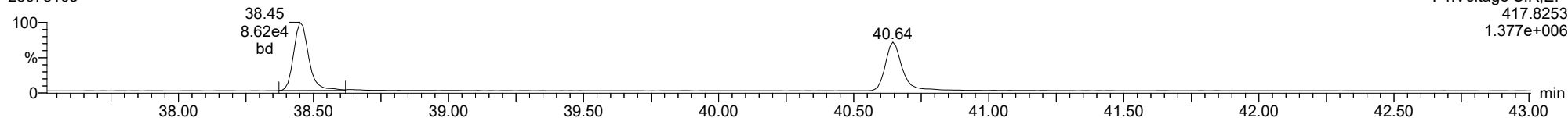
1234678-HpCDF

23073105



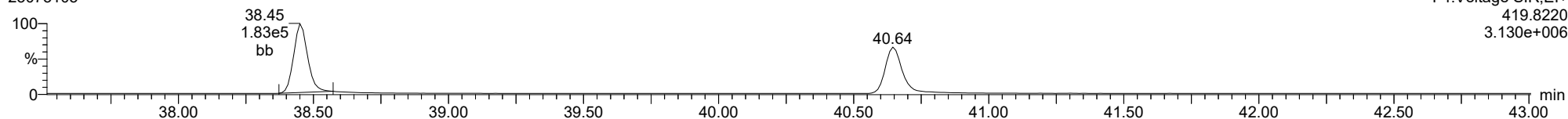
13C-1234678-HpCDF

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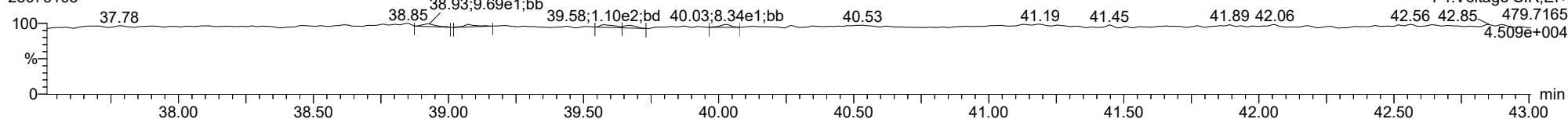
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23073105



FUNCTION4 NCDPE

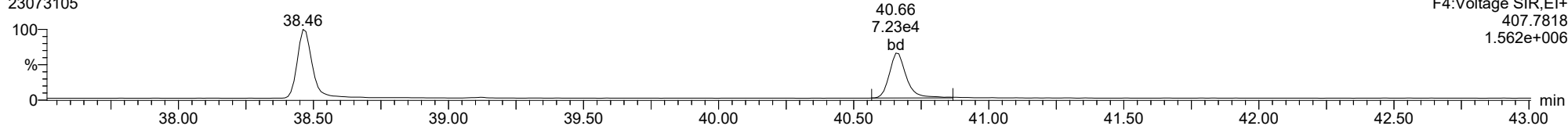
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

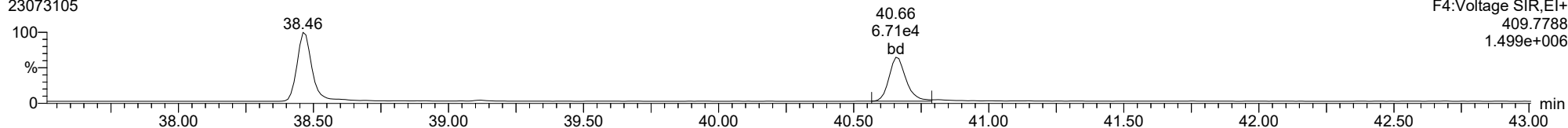
1234789-HpCDF

23073105



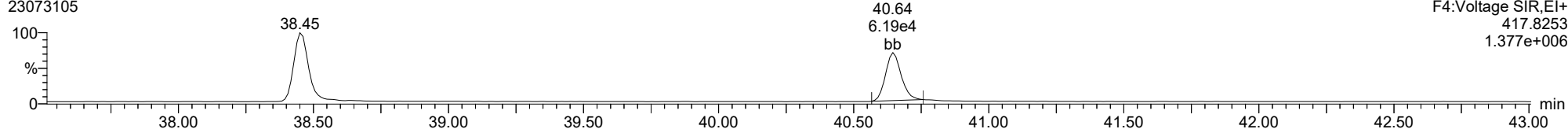
1234789-HpCDF

23073105



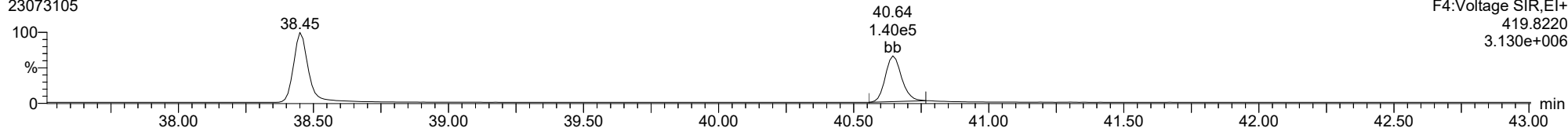
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23073105



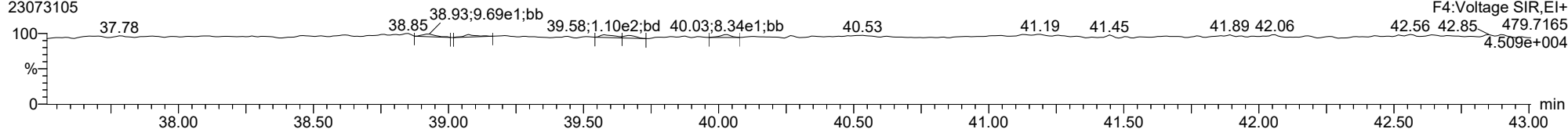
13C-1234789-HpCDF

23073105



FUNCTION4 NCDPE

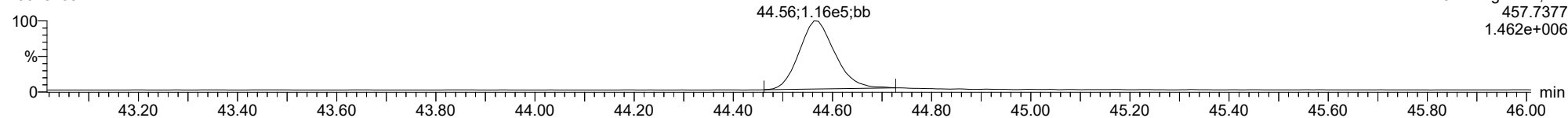
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

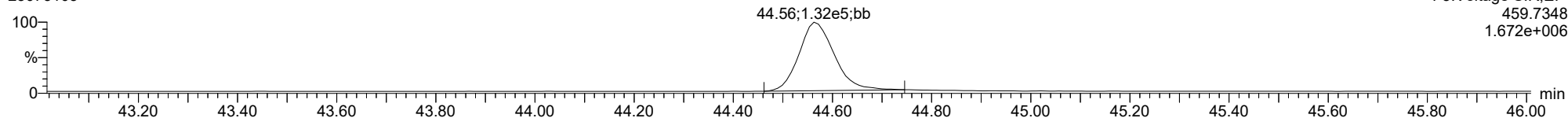
OCDD

23073105



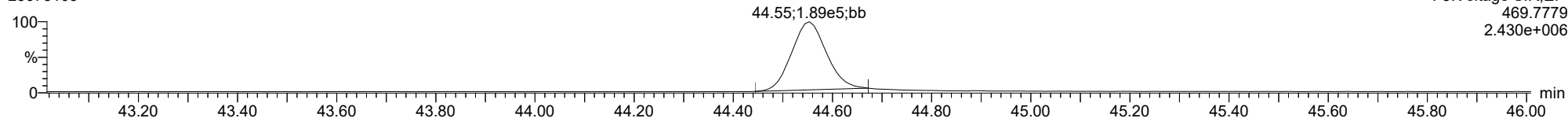
OCDD

23073105



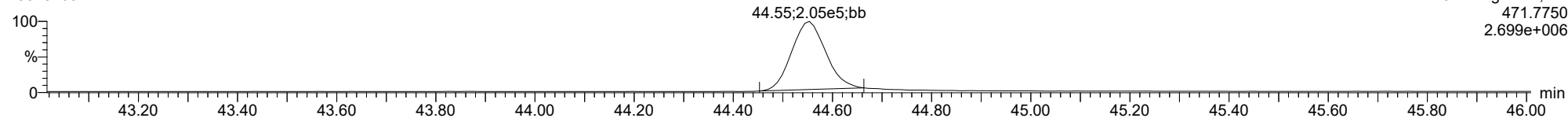
13C-OCDD

23073105



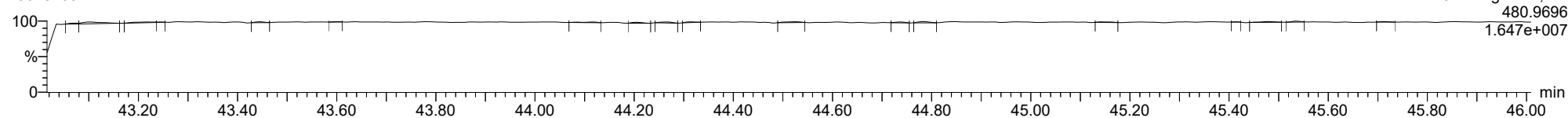
13C-OCDD

23073105

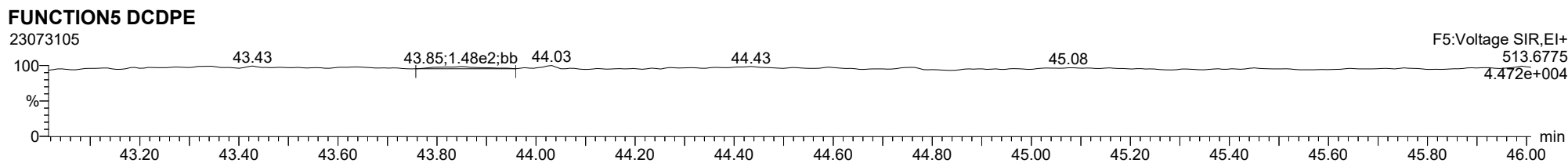
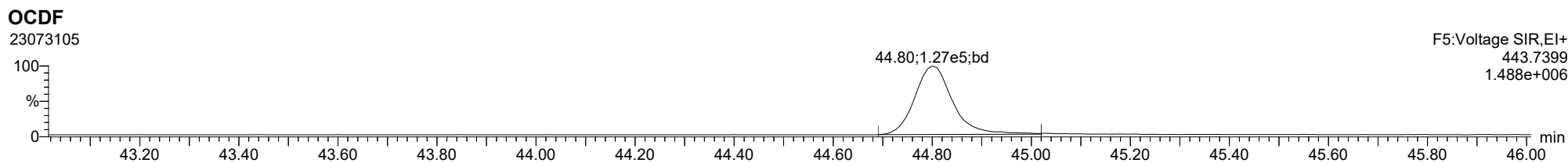
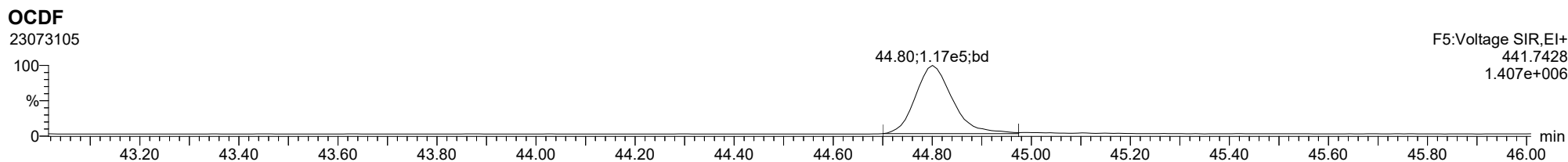


FUNCTION5 PFK

23073105



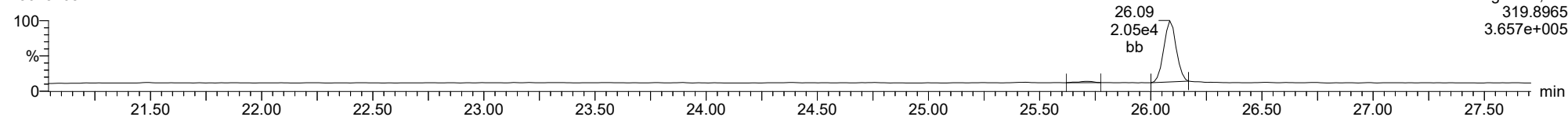
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

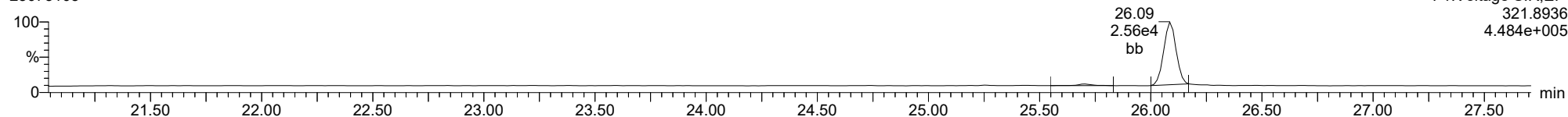
Total-tetradoxins

23073105



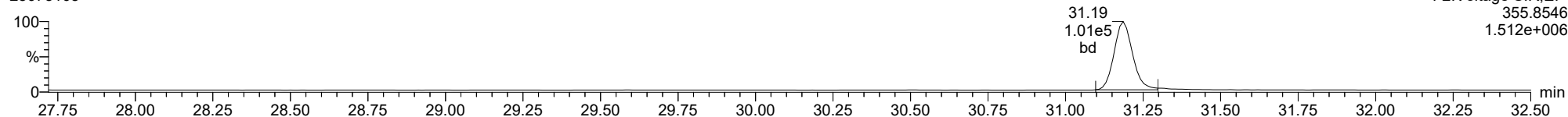
Total-tetradoxins

23073105



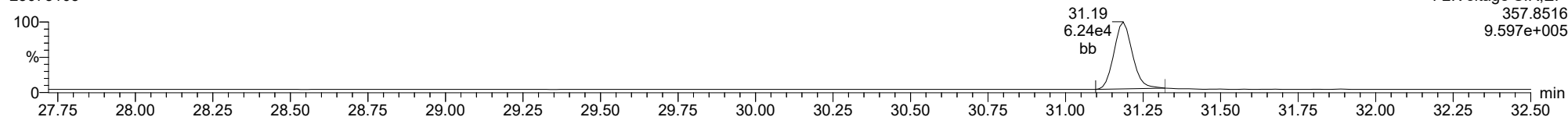
Total-pentadoxins

23073105



Total-pentadoxins

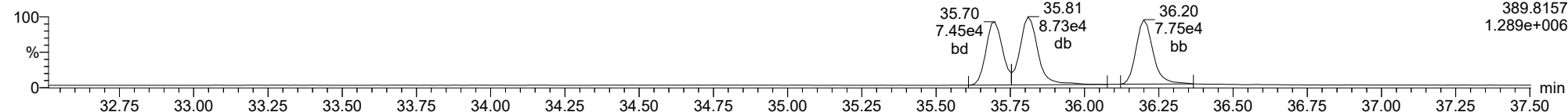
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ID: BLF0318-BS1, Name: 23073105, Date: 31-Jul-2023, Time: 15:25:53, Conditions: AUTOSPEC01, User: pk

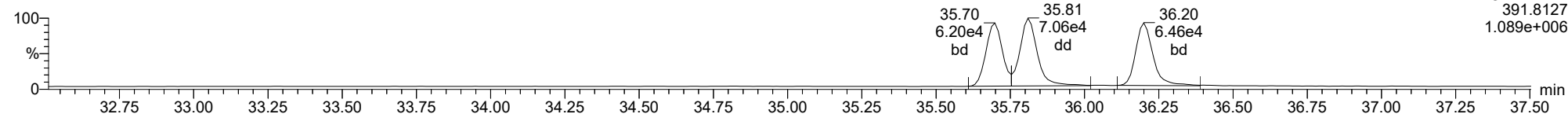
Total-hexadioxins

23073105



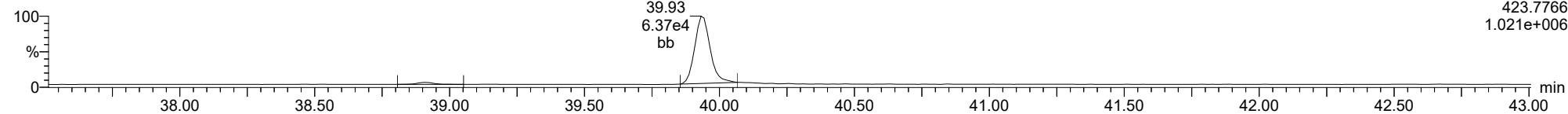
Total-hexadioxins

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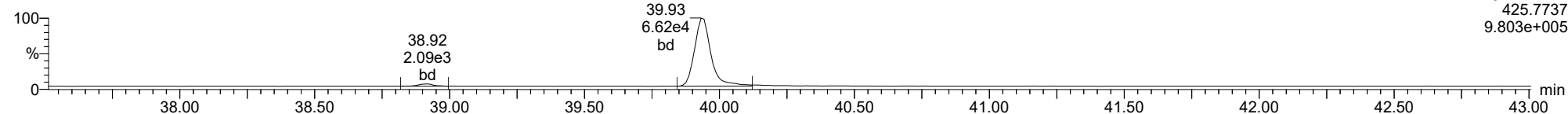
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Total-heptadioxins

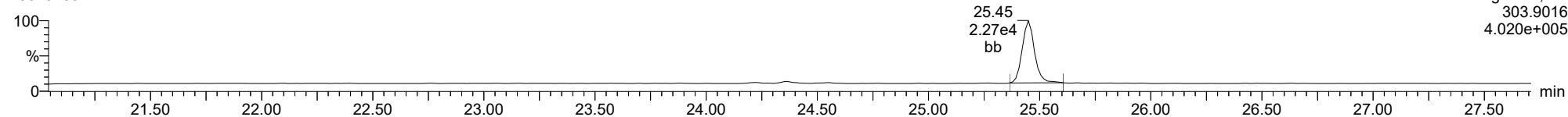
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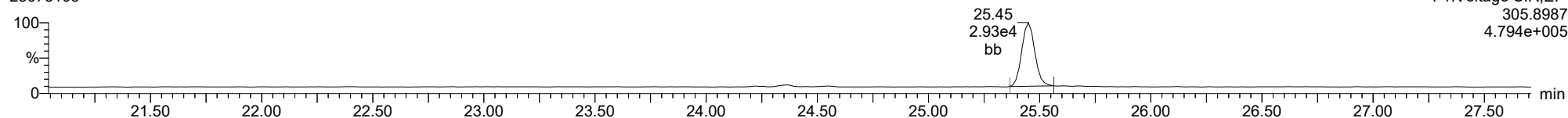
Total-tetrafurans

23073105



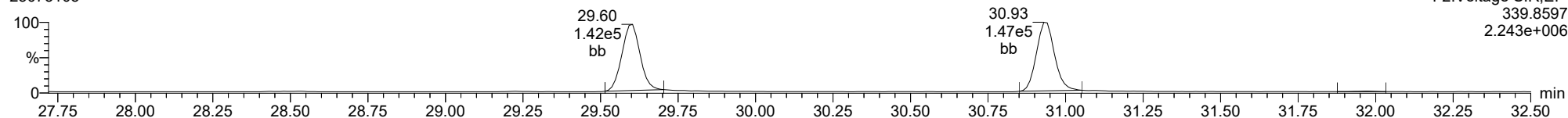
Total-tetrafurans

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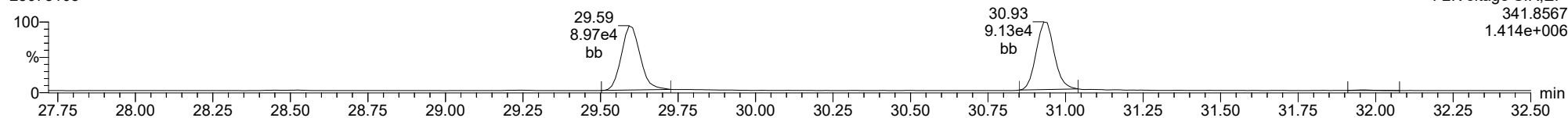
Total-pentafurans

23073105



Total-pentafurans

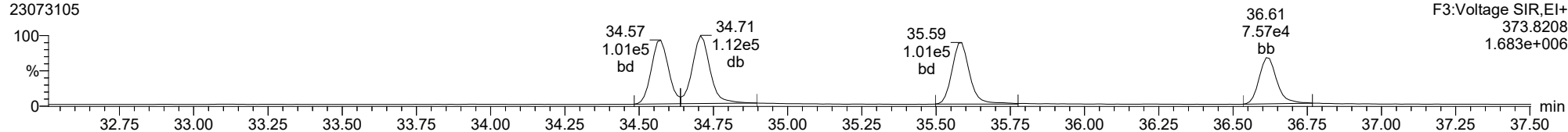
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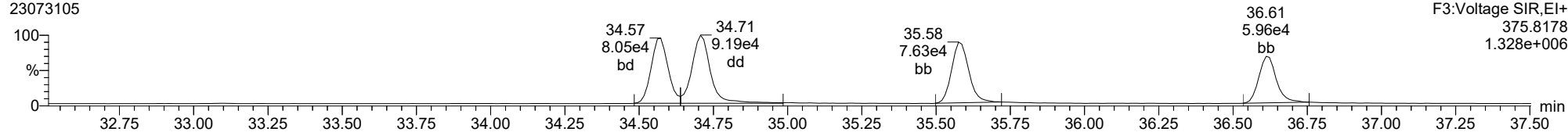
Total-hexafurans

23073105



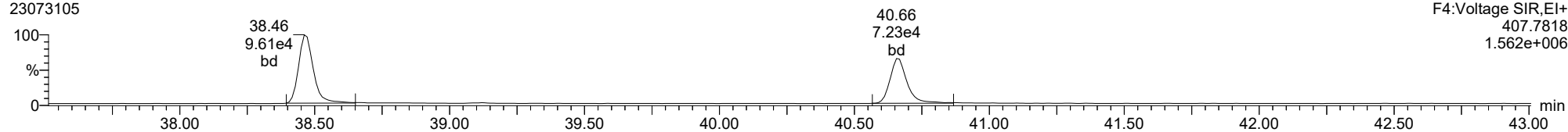
Total-hexafurans

23073105



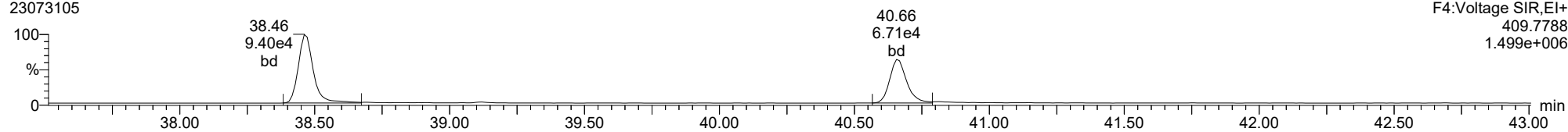
Total-heptafurans

23073105



Total-heptafurans

23073105





DUPLICATES
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLF0318-DUP1

Batch: BLF0318

Lab Source ID: 23F0143-02

Preparation: EPA 1613

Initial/Final: 18.15 g / 20 uL

Source Sample Name: LDW23-SC1226A

% Solids: 55.16

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
2,3,7,8-TCDF	25	0.564	0.931	49.1	*
2,3,7,8-TCDD	25	0.312	0.481	42.8	*
1,2,3,7,8-PeCDF	25	0.465	0.953	68.8	*
2,3,4,7,8-PeCDF	25	0.818	1.25	41.5	*
1,2,3,7,8-PeCDD	25	0.995	1.23	20.9	
1,2,3,4,7,8-HxCDF	25	2.95	3.70	22.5	
1,2,3,6,7,8-HxCDF	25	1.03	1.86	57.4	*
2,3,4,6,7,8-HxCDF	25	1.51	2.19	36.6	*
1,2,3,7,8,9-HxCDF	25	0.903	0.818	9.94	
1,2,3,4,7,8-HxCDD	25	0.924	1.10	17.7	
1,2,3,6,7,8-HxCDD	25	3.47	3.80	8.95	
1,2,3,7,8,9-HxCDD	25	2.43	2.60	6.71	
1,2,3,4,6,7,8-HpCDF	25	22.0	28.2	24.8	
1,2,3,4,7,8,9-HpCDF	25	1.90	1.78	6.67	
1,2,3,4,6,7,8-HpCDD	25	100	97.3	2.75	
OCDF	25	52.0	55.2	5.99	
OCDD	25	802	746	7.35	
Total TCDF	200	4.22	13.2	103	
Total TCDD	200	2.42	1.98	19.9	
Total PeCDF	200	6.48	21.6	108	
Total PeCDD	200	3.34	3.17	5.16	
Total HxCDF	200	31.3	38.0	19.4	
Total HxCDD	200	27.3	31.1	13.0	
Total HpCDF	200	75.2	81.0	7.41	
Total HpCDD	200	211	203	4.00	
13C12-2,3,7,8-TCDF		127	144		
13C12-2,3,7,8-TCDD		160	176		

* Values outside of QC limits

L Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to +/- RL instead of 20% RPD



DUPLICATES
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLF0318-DUP1

Batch: BLF0318

Lab Source ID: 23F0143-02

Preparation: EPA 1613

Initial/Final: 18.15 g / 20 uL

Source Sample Name: LDW23-SC1226A

% Solids: 55.16

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
13C12-1,2,3,7,8-PeCDF		155	174		
13C12-2,3,4,7,8-PeCDF		159	178		
13C12-1,2,3,7,8-PeCDD		163	183		
13C12-1,2,3,4,7,8-HxCDF		129	141		
13C12-1,2,3,6,7,8-HxCDF		115	130		
13C12-2,3,4,6,7,8-HxCDF		128	143		
13C12-1,2,3,7,8,9-HxCDF		132	149		
13C12-1,2,3,4,7,8-HxCDD		143	158		
13C12-1,2,3,6,7,8-HxCDD		132	146		
13C12-1,2,3,4,6,7,8-HpCDF		125	138		
13C12-1,2,3,4,7,8,9-HpCDF		128	152		
13C12-1,2,3,4,6,7,8-HpCDD		160	178		
13C12-OCDD		355	403		
37Cl4-2,3,7,8-TCDD		66.5	74.5		

*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/-RL instead of 20% RPD

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:49 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-DUP1, **Name:** 23073107, **Date:** 31-Jul-2023, **Time:** 17:03:52, **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	25.464	1.001	2.212e3	2.908e3	0.951	0.761	0.770	1139	1054	3.44e4	4.43e4	30.2	42.1	NO	bd	dd	0.466
12378-PeCDF	29.615	1.000	3.153e3	1.714e3	0.963	1.839	1.550	1422	1297	4.83e4	2.67e4	34.0	20.6	YES	bb	bb	0.477
23478-PeCDF	30.952	1.000	4.080e3	2.712e3	1.072	1.504	1.550	1422	1297	6.71e4	4.66e4	47.2	35.9	NO	bb	MM	0.624
123478-HxCDF	34.595	1.001	8.739e3	6.789e3	1.142	1.287	1.240	808	562	1.31e5	9.95e4	162.5	176.9	NO	dd	dd	1.852
234678-HxCDF	35.609	1.001	5.086e3	4.143e3	1.138	1.228	1.240	808	562	6.08e4	4.66e4	75.3	82.9	NO	bb	bb	1.097
123678-HxCDF	34.729	1.000	4.645e3	3.711e3	1.100	1.252	1.240	808	562	7.02e4	5.49e4	86.9	97.7	NO	db	db	0.932
123789-HxCDF	36.611	1.000	1.650e3	1.250e3	1.066	1.320	1.240	808	562	1.99e4	1.73e4	24.6	30.7	NO	bb	bb	0.409
1234678-HpCDF	38.483	1.000	6.097e4	5.561e4	1.210	1.096	1.050	1988	1181	9.90e5	9.25e5	497.8	783.1	NO	bb	bb	14.133
1234789-HpCDF	40.678	1.000	3.266e3	2.916e3	1.213	1.120	1.050	1988	1181	5.43e4	4.54e4	27.3	38.4	NO	bb	bb	0.890
OCDF	44.828	1.006	9.551e4	1.049e5	1.391	0.910	0.890	837	1159	1.08e6	1.17e6	1293.7	1013.4	NO	bd	bd	27.655
2378-TCDD	26.113	1.001	8.608e2	1.482e3	1.197	0.581	0.770	1076	733	1.04e4	2.23e4	9.7	30.4	YES	bd	bd	0.241
12378-PeCDD	31.197	1.000	2.457e3	1.629e3	1.129	1.509	1.550	1774	1654	3.01e4	2.32e4	17.0	14.0	NO	bd	bb	0.614
123478-HxCDD	35.720	1.000	1.920e3	1.654e3	0.917	1.161	1.240	1633	1856	3.31e4	2.70e4	20.3	14.5	NO	bd	bd	0.552
123678-HxCDD	35.843	1.001	7.410e3	6.240e3	0.944	1.188	1.240	1633	1856	1.22e5	1.02e5	74.7	55.2	NO	dd	dd	1.901
123789-HxCDD	36.222	1.011	4.486e3	3.807e3	0.869	1.178	1.240	1633	1856	6.88e4	5.94e4	42.1	32.0	NO	bb	db	1.302
1234678-HpCDD	39.954	1.000	1.621e5	1.577e5	1.237	1.028	1.050	2220	2481	2.47e6	2.35e6	1111.4	946.4	NO	bb	bd	48.712
OCDD	44.590	1.000	1.105e6	1.253e6	1.212	0.882	0.890	2162	5102	1.32e7	1.50e7	6124.2	2949.8	NO	bb	bb	373.184
13C-2378-TCDF	25.449	1.007	5.043e5	6.502e5	1.920	0.776	0.770	2186	1496	7.70e6	1.00e7	3520.1	6690.7	NO	bb	bb	72.069
13C-12378-PeCDF	29.604	1.171	6.415e5	4.183e5	1.455	1.533	1.550	3396	1514	9.74e6	6.32e6	2868.6	4174.5	NO	bb	bb	87.266
13C-23478-PeCDF	30.941	1.224	6.155e5	4.000e5	1.363	1.539	1.550	3396	1514	9.26e6	5.98e6	2725.7	3954.2	NO	bb	bb	89.293
13C-123478-HxCDF	34.573	0.955	2.463e5	4.881e5	1.119	0.505	0.510	2384	1573	3.91e6	7.68e6	1640.2	4879.5	NO	bd	bd	70.495
13C-123678-HxCDF	34.717	0.959	2.695e5	5.456e5	1.343	0.494	0.510	2384	1573	3.96e6	7.74e6	1662.4	4919.3	NO	db	dd	65.183
13C-234678-HxCDF	35.587	0.983	2.518e5	4.873e5	1.113	0.517	0.510	2384	1573	3.93e6	7.58e6	1648.9	4820.8	NO	bb	bb	71.344
13C-123789-HxCDF	36.623	1.011	2.260e5	4.381e5	0.959	0.516	0.510	2384	1573	3.54e6	6.84e6	1486.3	4345.5	NO	bb	bb	74.400
13C-1234678-HpCDF	38.472	1.062	2.138e5	4.681e5	1.058	0.457	0.440	1360	2007	3.56e6	7.89e6	2618.5	3930.7	NO	bb	bb	69.183
13C-1234789-HpCDF	40.667	1.123	1.714e5	4.013e5	0.809	0.427	0.440	1360	2007	2.53e6	5.58e6	1856.8	2778.9	NO	bb	bd	76.062
13C-1234-TCDD	25.280	0.000	3.709e5	4.636e5	1.000	0.800	0.770	1752	1125	5.76e6	7.14e6	3288.1	6352.3	NO	bb	bb	100.000
13C-2378-TCDD	26.085	1.032	3.567e5	4.560e5	1.104	0.782	0.770	1752	1125	5.49e6	7.01e6	3134.2	6229.5	NO	bb	bb	88.193
13C-12378-PeCDD	31.186	1.234	3.652e5	2.238e5	0.770	1.632	1.550	1111	750	5.45e6	3.41e6	4903.7	4552.8	NO	bb	bb	91.622
13C-123478-HxCDD	35.709	0.986	3.916e5	3.139e5	0.959	1.247	1.240	1038	1222	6.40e6	5.13e6	6166.7	4202.6	NO	bd	bd	78.980
13C-123678-HxCDD	35.821	0.989	4.176e5	3.431e5	1.120	1.217	1.240	1038	1222	6.40e6	5.30e6	6165.1	4340.4	NO	db	db	72.929
13C-1234678-HpCDD	39.943	1.103	2.744e5	2.565e5	0.640	1.070	1.050	1421	1503	4.29e6	4.01e6	3015.3	2668.6	NO	bb	bb	89.029
13C-OCDD	44.572	1.231	4.939e5	5.485e5	0.555	0.900	0.890	1470	2121	6.12e6	6.84e6	4167.3	3224.9	NO	bb	bb	201.572
13C-123789-HxCDD	36.210	0.000	5.142e5	4.171e5	1.000	1.233	1.240	1038	1222	7.83e6	6.29e6	7538.7	5149.9	NO	bb	bd	100.000
37CL-2378-TCDD	26.113	1.033	3.516e5		1.129			987		5.34e6		5414.5			bb		37.307

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:49 Pacific Daylight Time

ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, 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	21.989	0.864	8.500e2	9.281e2	1.201	0.916	0.770	1139	1054	1.27e4	1.56e4	11.1	14.8	YES	bd	bd	0.128
1289-TCDF					0.950		0.770	1139	1054								
13468-PECDF	26.890	0.908	1.845e4	1.108e4	1.142	1.665	1.550	684	844	2.62e5	1.69e5	382.3	200.5	NO	bb	db	2.439
12389-PECDF					0.917		1.550	1422	1297								
123468-HXCDF	32.913	0.952	8.693e3	6.360e3	1.332	1.367	1.240	808	562	1.32e5	1.00e5	163.4	177.9	NO	bd	bb	1.539
1368-TCDD	23.246	0.891	1.350e3	1.526e3	1.148	0.885	0.770	1076	733	2.10e4	2.86e4	19.6	39.1	NO	db	bb	0.308
1289-TCDD	26.692	1.023	1.661e2	1.911e2	0.955	0.870	0.770	1076	733	4.06e3	3.50e3	3.8	4.8	NO	dd	dd	0.046
12479-PECDD	28.534	0.915	2.279e3	2.564e3	2.043	0.889	1.550	1774	1654	4.34e4	2.64e4	24.5	16.0	YES	db	bb	0.403
12389-PECDD					1.326		1.550	1774	1654								
124679-HXCDD	33.693	0.944	1.841e4	1.472e4	1.104	1.251	1.240	1633	1856	2.82e5	2.24e5	172.4	120.8	NO	bb	bb	4.255
1234679-HPCDD	38.929	0.975	2.219e5	2.140e5	1.554	1.037	1.050	2220	2481	3.63e6	3.48e6	1635.3	1403.8	NO	bb	bb	52.821
Total-tetrafurans			3.422e4		1.034			1139		4.86e5							6.591
Total-penta1			1.845e4					684		2.62e5							2.439
Total-pentafurans			5.242e4		0.984			1422		7.23e5							8.392
Total-hexafurans			9.265e4		1.155			808		1.33e6							19.037
Total-heptafurans			1.639e5		1.211			1988		2.62e6							40.528
Total-Furans			4.571e5		1.119			1139		6.49e6							104.643
Total-tetradoxins			3.971e3		1.100			1076		6.31e4							0.992
Total-pentadoxins			7.586e3		1.499			1774		1.13e5							1.589
Total-hexadoxins			6.146e4		0.958			1633		8.54e5							15.570
Total-heptadoxins			3.840e5		1.396			2220		6.10e6							101.533
Total-Dioxins			1.562e6		1.203			1076		2.04e7							492.867
Total-TEQ			2.019e6					1076		2.69e7							597.510
FUNCTION1 PFK			3.046e7					382596		1.12e8							
FUNCTION2 PFK			2.130e5					224485		1.28e6							0.000
FUNCTION3 PFK			4.588e5					275799		1.08e6							0.000
FUNCTION4 PFK			5.028e5					197167		1.09e7							
FUNCTION5 PFK			1.915e5					131818		6.36e6							
FUNCTION1 HXCD...			8.176e2					493		1.22e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			3.574e2					695		5.98e3							0.000
FUNCTION3 OCDPE			4.526e2					595		7.83e3							0.000
FUNCTION4 NCDPE			7.503e3					614		1.24e5							0.000
FUNCTION5 DCDPE			0.000e0					492		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:49 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.32	1.353e3	1.611e3	1.034	0.84	0.77	19.9	YES	NO	db	db	0.248
2	Total-tetrafurans	23.13	3.789e3	5.749e3	1.034	0.66	0.77	44.1	YES	NO	dd	dd	0.799
3	Total-tetrafurans	22.84	3.596e3	4.808e3	1.034	0.75	0.77	39.3	YES	NO	bd	bd	0.704
4	Total-tetrafurans	25.70	3.706e3	4.741e3	1.034	0.78	0.77	48.2	YES	NO	dd	db	0.707
5	Total-tetrafurans	25.60	2.238e3	2.828e3	1.034	0.79	0.77	32.2	YES	NO	dd	dd	0.424
6	2378-TCDF	25.46	2.212e3	2.908e3	0.951	0.76	0.77	30.2	YES	NO	bd	dd	0.466
7	Total-tetrafurans	24.98	1.845e3	2.480e3	1.034	0.74	0.77	25.8	YES	NO	bb	dd	0.362
8	Total-tetrafurans	24.79	1.977e3	2.368e3	1.034	0.83	0.77	28.8	YES	NO	bb	bd	0.364
9	Total-tetrafurans	24.57	2.279e3	2.775e3	1.034	0.82	0.77	31.0	YES	NO	bb	bb	0.423
10	Total-tetrafurans	24.38	3.089e3	3.800e3	1.034	0.81	0.77	33.9	YES	NO	db	db	0.577
11	Total-tetrafurans	24.14	4.578e3	5.548e3	1.034	0.83	0.77	44.9	YES	NO	dd	bd	0.848
12	Total-tetrafurans	23.71	2.055e3	2.482e3	1.034	0.83	0.77	25.5	YES	NO	bd	bd	0.380
13	Total-tetrafurans	23.58	1.504e3	1.944e3	1.034	0.77	0.77	22.4	YES	NO	db	db	0.289

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.89	1.845e4	1.108e4	1.142	1.66	1.55	382.3	YES	NO	bb	db	2.439

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.48	7.210e3	4.512e3	0.984	1.60	1.55	87.6	YES	NO	dd	dd	1.148
2	Total-pentafurans	28.34	7.811e3	4.759e3	0.984	1.64	1.55	58.1	YES	NO	bd	dd	1.231
3	23478-PeCDF	30.95	4.080e3	2.712e3	1.072	1.50	1.55	47.2	YES	NO	bb	MM	0.624
4	Total-pentafurans	30.81	2.028e3	1.350e3	0.984	1.50	1.55	22.8	YES	NO	db	dd	0.331
5	Total-pentafurans	30.70	5.663e3	3.197e3	0.984	1.77	1.55	60.1	YES	NO	bd	bd	0.868
6	Total-pentafurans	29.82	4.164e3	2.888e3	0.984	1.44	1.55	46.2	YES	NO	bd	bd	0.691
7	Total-pentafurans	29.27	8.667e3	5.380e3	0.984	1.61	1.55	50.1	YES	NO	db	db	1.376
8	Total-pentafurans	29.17	5.892e2	4.107e2	0.984	1.43	1.55	7.8	YES	NO	dd	dd	0.098
9	Total-pentafurans	29.04	2.300e3	1.731e3	0.984	1.33	1.55	23.7	YES	NO	bd	bd	0.395
10	Total-pentafurans	28.67	3.683e2	2.556e2	0.984	1.44	1.55	4.4	YES	NO	db	db	0.061
11	Total-pentafurans	28.55	9.542e3	6.494e3	0.984	1.47	1.55	100.5	YES	NO	dd	dd	1.571

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, 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	34.60	8.739e3	6.789e3	1.142	1.29	1.24	162.5	YES	NO	dd	dd	1.852
2	Total-hexafurans	34.44	5.856e3	4.552e3	1.155	1.29	1.24	110.1	YES	NO	bd	bd	1.220
3	Total-hexafurans	33.97	2.922e4	2.311e4	1.155	1.26	1.24	545.6	YES	NO	bb	bb	6.135
4	Total-hexafurans	33.12	2.876e4	2.115e4	1.155	1.36	1.24	472.6	YES	NO	dd	bb	5.852
5	123468-HxCDF	32.91	8.693e3	6.360e3	1.332	1.37	1.24	163.4	YES	NO	bd	bb	1.539
6	123789-HxCDF	36.61	1.650e3	1.250e3	1.066	1.32	1.24	24.6	YES	NO	bb	bb	0.409
7	234678-HxCDF	35.61	5.086e3	4.143e3	1.138	1.23	1.24	75.3	YES	NO	bb	bb	1.097
8	123678-HxCDF	34.73	4.645e3	3.711e3	1.100	1.25	1.24	86.9	YES	NO	db	db	0.932

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.48	6.097e4	5.561e4	1.210	1.10	1.05	497.8	YES	NO	bb	bb	14.133
2	1234789-HpCDF	40.68	3.266e3	2.916e3	1.213	1.12	1.05	27.3	YES	NO	bb	bb	0.890
3	Total-heptafurans	39.14	9.769e4	9.234e4	1.211	1.06	1.05	774.5	YES	NO	bb	bb	25.012
4	Total-heptafurans	38.90	1.941e3	1.800e3	1.211	1.08	1.05	16.3	YES	NO	bd	bb	0.492

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.32	1.353e3	1.611e3	1.034	0.84	0.77	19.9	YES	NO	db	db	0.248
2	Total-tetrafurans	23.13	3.789e3	5.749e3	1.034	0.66	0.77	44.1	YES	NO	dd	dd	0.799
3	Total-tetrafurans	22.84	3.596e3	4.808e3	1.034	0.75	0.77	39.3	YES	NO	bd	bd	0.704
4	Total-tetrafurans	25.70	3.706e3	4.741e3	1.034	0.78	0.77	48.2	YES	NO	dd	db	0.707
5	Total-tetrafurans	25.60	2.238e3	2.828e3	1.034	0.79	0.77	32.2	YES	NO	dd	dd	0.424
6	2378-TCDF	25.46	2.212e3	2.908e3	0.951	0.76	0.77	30.2	YES	NO	bd	dd	0.466
7	Total-tetrafurans	24.98	1.845e3	2.480e3	1.034	0.74	0.77	25.8	YES	NO	bb	dd	0.362
8	Total-tetrafurans	24.79	1.977e3	2.368e3	1.034	0.83	0.77	28.8	YES	NO	bb	bd	0.364
9	Total-tetrafurans	24.57	2.279e3	2.775e3	1.034	0.82	0.77	31.0	YES	NO	bb	bb	0.423
10	Total-tetrafurans	24.38	3.089e3	3.800e3	1.034	0.81	0.77	33.9	YES	NO	db	db	0.577
11	Total-tetrafurans	24.14	4.578e3	5.548e3	1.034	0.83	0.77	44.9	YES	NO	dd	bd	0.848
12	Total-tetrafurans	23.71	2.055e3	2.482e3	1.034	0.83	0.77	25.5	YES	NO	bd	bd	0.380
13	Total-tetrafurans	23.58	1.504e3	1.944e3	1.034	0.77	0.77	22.4	YES	NO	db	db	0.289
14	Total-pentafurans	28.48	7.210e3	4.512e3	0.984	1.60	1.55	87.6	YES	NO	dd	dd	1.148
15	Total-pentafurans	28.34	7.811e3	4.759e3	0.984	1.64	1.55	58.1	YES	NO	bd	dd	1.231
16	23478-PeCDF	30.95	4.080e3	2.712e3	1.072	1.50	1.55	47.2	YES	NO	bb	MM	0.624
17	Total-pentafurans	30.81	2.028e3	1.350e3	0.984	1.50	1.55	22.8	YES	NO	db	dd	0.331
18	Total-pentafurans	30.70	5.663e3	3.197e3	0.984	1.77	1.55	60.1	YES	NO	bd	bd	0.868
19	Total-pentafurans	29.82	4.164e3	2.888e3	0.984	1.44	1.55	46.2	YES	NO	bd	bd	0.691
20	Total-pentafurans	29.27	8.667e3	5.380e3	0.984	1.61	1.55	50.1	YES	NO	db	db	1.376
21	Total-pentafurans	29.17	5.892e2	4.107e2	0.984	1.43	1.55	7.8	YES	NO	dd	dd	0.098
22	Total-pentafurans	29.04	2.300e3	1.731e3	0.984	1.33	1.55	23.7	YES	NO	bd	bd	0.395
23	Total-pentafurans	28.67	3.683e2	2.556e2	0.984	1.44	1.55	4.4	YES	NO	db	db	0.061
24	Total-pentafurans	28.55	9.542e3	6.494e3	0.984	1.47	1.55	100.5	YES	NO	dd	dd	1.571
25	123478-HxCDF	34.60	8.739e3	6.789e3	1.142	1.29	1.24	162.5	YES	NO	dd	dd	1.852
26	Total-hexafurans	34.44	5.856e3	4.552e3	1.155	1.29	1.24	110.1	YES	NO	bd	bd	1.220
27	Total-hexafurans	33.97	2.922e4	2.311e4	1.155	1.26	1.24	545.6	YES	NO	bb	bb	6.135
28	Total-hexafurans	33.12	2.876e4	2.115e4	1.155	1.36	1.24	472.6	YES	NO	dd	bb	5.852
29	123468-HXCDF	32.91	8.693e3	6.360e3	1.332	1.37	1.24	163.4	YES	NO	bd	bb	1.539
30	123789-HxCDF	36.61	1.650e3	1.250e3	1.066	1.32	1.24	24.6	YES	NO	bb	bb	0.409
31	234678-HxCDF	35.61	5.086e3	4.143e3	1.138	1.23	1.24	75.3	YES	NO	bb	bb	1.097
32	123678-HxCDF	34.73	4.645e3	3.711e3	1.100	1.25	1.24	86.9	YES	NO	db	db	0.932
33	1234678-HpCDF	38.48	6.097e4	5.561e4	1.210	1.10	1.05	497.8	YES	NO	bb	bb	14.133
34	1234789-HpCDF	40.68	3.266e3	2.916e3	1.213	1.12	1.05	27.3	YES	NO	bb	bb	0.890
35	Total-heptafurans	39.14	9.769e4	9.234e4	1.211	1.06	1.05	774.5	YES	NO	bb	bb	25.012
36	Total-heptafurans	38.90	1.941e3	1.800e3	1.211	1.08	1.05	16.3	YES	NO	bd	bb	0.492
37	OCDF	44.83	9.551e4	1.049e5	1.391	0.91	0.89	1293.7	YES	NO	bd	bd	27.655

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk**Furans,TF,PP,PF,HF,HPF,OF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	13468-PECDF	26.89	1.845e4	1.108e4	1.142	1.66	1.55	382.3	YES	NO	bb	db	2.439

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.25	1.350e3	1.526e3	1.148	0.89	0.77	19.6	YES	NO	db	bb	0.308
2	Total-tetradoxins	25.28	3.346e2	5.039e2	1.100	0.66	0.77	5.4	YES	NO	bd	bd	0.094
3	Total-tetradoxins	24.72	9.192e2	1.111e3	1.100	0.83	0.77	12.4	YES	NO	bb	bb	0.227
4	Total-tetradoxins	23.73	2.562e2	3.313e2	1.100	0.77	0.77	4.0	YES	NO	bb	bd	0.066
5	Total-tetradoxins	23.53	9.448e2	1.301e3	1.100	0.73	0.77	13.5	YES	NO	bb	bb	0.251
6	1289-TCDD	26.69	1.661e2	1.911e2	0.955	0.87	0.77	3.8	YES	NO	dd	dd	0.046

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.20	2.457e3	1.629e3	1.129	1.51	1.55	17.0	YES	NO	bd	bb	0.614
2	Total-pentadoxins	29.97	1.509e3	1.008e3	1.499	1.50	1.55	12.4	YES	NO	dd	dd	0.285
3	Total-pentadoxins	29.83	1.842e3	1.269e3	1.499	1.45	1.55	16.7	YES	NO	bd	bd	0.352
4	Total-pentadoxins	29.61	1.777e3	1.196e3	1.499	1.49	1.55	17.4	YES	NO	bb	bb	0.337

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	33.69	1.841e4	1.472e4	1.104	1.25	1.24	172.4	YES	NO	bb	bb	4.255
2	123789-HxCDD	36.22	4.486e3	3.807e3	0.869	1.18	1.24	42.1	YES	NO	bb	db	1.302
3	Total-hexadoxins	36.01	1.322e3	1.115e3	0.958	1.19	1.24	12.8	YES	NO	db	dd	0.347
4	123678-HxCDD	35.84	7.410e3	6.240e3	0.944	1.19	1.24	74.7	YES	NO	dd	dd	1.901
5	123478-HxCDD	35.72	1.920e3	1.654e3	0.917	1.16	1.24	20.3	YES	NO	bd	bd	0.552
6	Total-hexadoxins	34.94	2.057e3	1.657e3	0.958	1.24	1.24	23.0	YES	NO	db	db	0.529
7	Total-hexadoxins	34.84	2.183e4	1.796e4	0.958	1.22	1.24	138.9	YES	NO	bd	bd	5.662
8	Total-hexadoxins	34.47	4.024e3	3.152e3	0.958	1.28	1.24	38.7	YES	NO	bb	bb	1.021

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.95	1.621e5	1.577e5	1.237	1.03	1.05	1111.4	YES	NO	bb	bd	48.712
2	1234679-HPCDD	38.93	2.219e5	2.140e5	1.554	1.04	1.05	1635.3	YES	NO	bb	bb	52.821

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.25	1.350e3	1.526e3	1.148	0.89	0.77	19.6	YES	NO	db	bb	0.308
2	Total-tetradoxins	25.28	3.346e2	5.039e2	1.100	0.66	0.77	5.4	YES	NO	bd	bd	0.094
3	Total-tetradoxins	24.72	9.192e2	1.111e3	1.100	0.83	0.77	12.4	YES	NO	bb	bb	0.227
4	Total-tetradoxins	23.73	2.562e2	3.313e2	1.100	0.77	0.77	4.0	YES	NO	bb	bd	0.066
5	Total-tetradoxins	23.53	9.448e2	1.301e3	1.100	0.73	0.77	13.5	YES	NO	bb	bb	0.251
6	1289-TCDD	26.69	1.661e2	1.911e2	0.955	0.87	0.77	3.8	YES	NO	dd	dd	0.046
7	12378-PeCDD	31.20	2.457e3	1.629e3	1.129	1.51	1.55	17.0	YES	NO	bd	bb	0.614
8	Total-pentadoxins	29.97	1.509e3	1.008e3	1.499	1.50	1.55	12.4	YES	NO	dd	dd	0.285
9	Total-pentadoxins	29.83	1.842e3	1.269e3	1.499	1.45	1.55	16.7	YES	NO	bd	bd	0.352
10	Total-pentadoxins	29.61	1.777e3	1.196e3	1.499	1.49	1.55	17.4	YES	NO	bb	bb	0.337
11	124679-HxCDD	33.69	1.841e4	1.472e4	1.104	1.25	1.24	172.4	YES	NO	bb	bb	4.255
12	123789-HxCDD	36.22	4.486e3	3.807e3	0.869	1.18	1.24	42.1	YES	NO	bb	db	1.302
13	Total-hexadoxins	36.01	1.322e3	1.115e3	0.958	1.19	1.24	12.8	YES	NO	db	dd	0.347
14	123678-HxCDD	35.84	7.410e3	6.240e3	0.944	1.19	1.24	74.7	YES	NO	dd	dd	1.901
15	123478-HxCDD	35.72	1.920e3	1.654e3	0.917	1.16	1.24	20.3	YES	NO	bd	bd	0.552
16	Total-hexadoxins	34.94	2.057e3	1.657e3	0.958	1.24	1.24	23.0	YES	NO	db	db	0.529
17	Total-hexadoxins	34.84	2.183e4	1.796e4	0.958	1.22	1.24	138.9	YES	NO	bd	bd	5.662
18	Total-hexadoxins	34.47	4.024e3	3.152e3	0.958	1.28	1.24	38.7	YES	NO	bb	bb	1.021
19	1234678-HpCDD	39.95	1.621e5	1.577e5	1.237	1.03	1.05	1111.4	YES	NO	bb	bd	48.712
20	1234679-HPCDD	38.93	2.219e5	2.140e5	1.554	1.04	1.05	1635.3	YES	NO	bb	bb	52.821
21	OCDD	44.59	1.105e6	1.253e6	1.212	0.88	0.89	6124.2	YES	NO	bb	bb	373.184

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.32	1.353e3	1.611e3	1.034	0.84	0.77	19.9	YES	NO	db	db	0.248
2	Total-tetrafurans	23.13	3.789e3	5.749e3	1.034	0.66	0.77	44.1	YES	NO	dd	dd	0.799
3	Total-tetrafurans	22.84	3.596e3	4.808e3	1.034	0.75	0.77	39.3	YES	NO	bd	bd	0.704
4	Total-tetrafurans	25.70	3.706e3	4.741e3	1.034	0.78	0.77	48.2	YES	NO	dd	db	0.707
5	Total-tetrafurans	25.60	2.238e3	2.828e3	1.034	0.79	0.77	32.2	YES	NO	dd	dd	0.424
6	2378-TCDF	25.46	2.212e3	2.908e3	0.951	0.76	0.77	30.2	YES	NO	bd	dd	0.466
7	Total-tetrafurans	24.98	1.845e3	2.480e3	1.034	0.74	0.77	25.8	YES	NO	bb	dd	0.362
8	Total-tetrafurans	24.79	1.977e3	2.368e3	1.034	0.83	0.77	28.8	YES	NO	bb	bd	0.364
9	Total-tetrafurans	24.57	2.279e3	2.775e3	1.034	0.82	0.77	31.0	YES	NO	bb	bb	0.423
10	Total-tetrafurans	24.38	3.089e3	3.800e3	1.034	0.81	0.77	33.9	YES	NO	db	db	0.577
11	Total-tetrafurans	24.14	4.578e3	5.548e3	1.034	0.83	0.77	44.9	YES	NO	dd	bd	0.848
12	Total-tetrafurans	23.71	2.055e3	2.482e3	1.034	0.83	0.77	25.5	YES	NO	bd	bd	0.380
13	Total-tetrafurans	23.58	1.504e3	1.944e3	1.034	0.77	0.77	22.4	YES	NO	db	db	0.289
14	Total-pentafurans	28.48	7.210e3	4.512e3	0.984	1.60	1.55	87.6	YES	NO	dd	dd	1.148
15	Total-pentafurans	28.34	7.811e3	4.759e3	0.984	1.64	1.55	58.1	YES	NO	bd	dd	1.231
16	23478-PeCDF	30.95	4.080e3	2.712e3	1.072	1.50	1.55	47.2	YES	NO	bb	MM	0.624
17	Total-pentafurans	30.81	2.028e3	1.350e3	0.984	1.50	1.55	22.8	YES	NO	db	dd	0.331
18	Total-pentafurans	30.70	5.663e3	3.197e3	0.984	1.77	1.55	60.1	YES	NO	bd	bd	0.868
19	Total-pentafurans	29.82	4.164e3	2.888e3	0.984	1.44	1.55	46.2	YES	NO	bd	bd	0.691
20	Total-pentafurans	29.27	8.667e3	5.380e3	0.984	1.61	1.55	50.1	YES	NO	db	db	1.376
21	Total-pentafurans	29.17	5.892e2	4.107e2	0.984	1.43	1.55	7.8	YES	NO	dd	dd	0.098
22	Total-pentafurans	29.04	2.300e3	1.731e3	0.984	1.33	1.55	23.7	YES	NO	bd	bd	0.395
23	Total-pentafurans	28.67	3.683e2	2.556e2	0.984	1.44	1.55	4.4	YES	NO	db	db	0.061
24	Total-pentafurans	28.55	9.542e3	6.494e3	0.984	1.47	1.55	100.5	YES	NO	dd	dd	1.571
25	123478-HxCDF	34.60	8.739e3	6.789e3	1.142	1.29	1.24	162.5	YES	NO	dd	dd	1.852
26	Total-hexafurans	34.44	5.856e3	4.552e3	1.155	1.29	1.24	110.1	YES	NO	bd	bd	1.220
27	Total-hexafurans	33.97	2.922e4	2.311e4	1.155	1.26	1.24	545.6	YES	NO	bb	bb	6.135
28	Total-hexafurans	33.12	2.876e4	2.115e4	1.155	1.36	1.24	472.6	YES	NO	dd	bb	5.852
29	123468-HXCDF	32.91	8.693e3	6.360e3	1.332	1.37	1.24	163.4	YES	NO	bd	bb	1.539
30	123789-HxCDF	36.61	1.650e3	1.250e3	1.066	1.32	1.24	24.6	YES	NO	bb	bb	0.409
31	234678-HxCDF	35.61	5.086e3	4.143e3	1.138	1.23	1.24	75.3	YES	NO	bb	bb	1.097
32	123678-HxCDF	34.73	4.645e3	3.711e3	1.100	1.25	1.24	86.9	YES	NO	db	db	0.932
33	1234678-HpCDF	38.48	6.097e4	5.561e4	1.210	1.10	1.05	497.8	YES	NO	bb	bb	14.133
34	1234789-HpCDF	40.68	3.266e3	2.916e3	1.213	1.12	1.05	27.3	YES	NO	bb	bb	0.890
35	Total-heptafurans	39.14	9.769e4	9.234e4	1.211	1.06	1.05	774.5	YES	NO	bb	bb	25.012
36	Total-heptafurans	38.90	1.941e3	1.800e3	1.211	1.08	1.05	16.3	YES	NO	bd	bb	0.492
37	OCDF	44.83	9.551e4	1.049e5	1.391	0.91	0.89	1293.7	YES	NO	bd	bd	27.655

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	13468-PECDF	26.89	1.845e4	1.108e4	1.142	1.66	1.55	382.3	YES	NO	bb	db	2.439
39	1368-TCDD	23.25	1.350e3	1.526e3	1.148	0.89	0.77	19.6	YES	NO	db	bb	0.308
40	Total-tetradoxins	25.28	3.346e2	5.039e2	1.100	0.66	0.77	5.4	YES	NO	bd	bd	0.094
41	Total-tetradoxins	24.72	9.192e2	1.111e3	1.100	0.83	0.77	12.4	YES	NO	bb	bb	0.227
42	Total-tetradoxins	23.73	2.562e2	3.313e2	1.100	0.77	0.77	4.0	YES	NO	bb	bd	0.066
43	Total-tetradoxins	23.53	9.448e2	1.301e3	1.100	0.73	0.77	13.5	YES	NO	bb	bb	0.251
44	1289-TCDD	26.69	1.661e2	1.911e2	0.955	0.87	0.77	3.8	YES	NO	dd	dd	0.046
45	12378-PeCDD	31.20	2.457e3	1.629e3	1.129	1.51	1.55	17.0	YES	NO	bd	bb	0.614
46	Total-pentadoxins	29.97	1.509e3	1.008e3	1.499	1.50	1.55	12.4	YES	NO	dd	dd	0.285
47	Total-pentadoxins	29.83	1.842e3	1.269e3	1.499	1.45	1.55	16.7	YES	NO	bd	bd	0.352
48	Total-pentadoxins	29.61	1.777e3	1.196e3	1.499	1.49	1.55	17.4	YES	NO	bb	bb	0.337
49	124679-HxCDD	33.69	1.841e4	1.472e4	1.104	1.25	1.24	172.4	YES	NO	bb	bb	4.255
50	123789-HxCDD	36.22	4.486e3	3.807e3	0.869	1.18	1.24	42.1	YES	NO	bb	db	1.302
51	Total-hexadoxins	36.01	1.322e3	1.115e3	0.958	1.19	1.24	12.8	YES	NO	db	dd	0.347
52	123678-HxCDD	35.84	7.410e3	6.240e3	0.944	1.19	1.24	74.7	YES	NO	dd	dd	1.901
53	123478-HxCDD	35.72	1.920e3	1.654e3	0.917	1.16	1.24	20.3	YES	NO	bd	bd	0.552
54	Total-hexadoxins	34.94	2.057e3	1.657e3	0.958	1.24	1.24	23.0	YES	NO	db	db	0.529
55	Total-hexadoxins	34.84	2.183e4	1.796e4	0.958	1.22	1.24	138.9	YES	NO	bd	bd	5.662
56	Total-hexadoxins	34.47	4.024e3	3.152e3	0.958	1.28	1.24	38.7	YES	NO	bb	bb	1.021
57	1234678-HpCDD	39.95	1.621e5	1.577e5	1.237	1.03	1.05	1111.4	YES	NO	bb	bd	48.712
58	1234679-HPCDD	38.93	2.219e5	2.140e5	1.554	1.04	1.05	1635.3	YES	NO	bb	bb	52.821
59	OCDD	44.59	1.105e6	1.253e6	1.212	0.88	0.89	6124.2	YES	NO	bb	bb	373.184

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.57	3.545e6					19.9	YES		db		
2	FUNCTION1 PFK	22.20	2.934e6					37.3	YES		dd		
3	FUNCTION1 PFK	21.97	2.359e6					48.7	YES		dd		
4	FUNCTION1 PFK	21.92	3.220e6					50.8	YES		dd		
5	FUNCTION1 PFK	21.71	2.732e6					60.9	YES		dd		
6	FUNCTION1 PFK	21.41	1.567e7					76.0	YES		bd		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.15	2.130e5					5.7	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	FUNCTION3 PFK	36.31	4.588e5					3.9	YES		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	FUNCTION4 PFK	39.60	1.604e4					1.3	NO		bd		
2	FUNCTION4 PFK	39.47	3.446e4					2.1	NO		bb		
3	FUNCTION4 PFK	39.33	9.364e3					1.6	NO		bb		
4	FUNCTION4 PFK	38.55	9.782e2					0.4	NO		bb		
5	FUNCTION4 PFK	38.51	2.048e3					0.6	NO		bb		
6	FUNCTION4 PFK	38.31	1.437e4					1.6	NO		bb		
7	FUNCTION4 PFK	38.20	6.794e3					1.5	NO		bb		
8	FUNCTION4 PFK	38.14	2.287e4					2.9	NO		db		
9	FUNCTION4 PFK	38.09	4.068e4					3.6	YES		dd		
10	FUNCTION4 PFK	37.96	4.197e4					2.8	NO		dd		
11	FUNCTION4 PFK	37.92	2.509e4					3.8	YES		dd		
12	FUNCTION4 PFK	37.87	2.070e4					2.8	NO		dd		
13	FUNCTION4 PFK	37.75	7.620e4					3.6	YES		bd		
14	FUNCTION4 PFK	41.60	1.256e4					1.8	NO		bb		
15	FUNCTION4 PFK	41.50	1.677e4					1.2	NO		bb		
16	FUNCTION4 PFK	41.41	3.468e3					0.9	NO		bb		
17	FUNCTION4 PFK	41.29	2.984e3					0.7	NO		bb		
18	FUNCTION4 PFK	40.87	1.531e4					2.0	NO		db		
19	FUNCTION4 PFK	40.77	6.089e3					0.7	NO		bd		
20	FUNCTION4 PFK	40.72	7.391e3					1.7	NO		bb		
21	FUNCTION4 PFK	40.63	8.143e3					1.0	NO		bb		
22	FUNCTION4 PFK	40.49	4.302e3					0.9	NO		bb		
23	FUNCTION4 PFK	40.41	3.160e3					0.8	NO		bb		
24	FUNCTION4 PFK	40.27	8.674e3					1.1	NO		bb		
25	FUNCTION4 PFK	40.08	5.760e3					1.2	NO		bb		
26	FUNCTION4 PFK	39.89	2.185e4					1.6	NO		db		
27	FUNCTION4 PFK	39.76	7.175e3					1.3	NO		dd		
28	FUNCTION4 PFK	39.72	5.252e3					1.1	NO		dd		
29	FUNCTION4 PFK	39.69	8.474e3					1.2	NO		dd		
30	FUNCTION4 PFK	42.73	8.050e2					0.4	NO		bb		
31	FUNCTION4 PFK	42.65	1.795e3					0.8	NO		bb		
32	FUNCTION4 PFK	42.58	6.346e3					1.3	NO		bb		
33	FUNCTION4 PFK	42.35	1.552e4					1.4	NO		db		
34	FUNCTION4 PFK	42.18	1.155e4					1.1	NO		bd		
35	FUNCTION4 PFK	41.83	1.129e4					1.6	NO		bb		
36	FUNCTION4 PFK	41.69	6.533e3					0.9	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	FUNCTION5 PFK	43.68	5.664e2					0.4	NO		bd		
2	FUNCTION5 PFK	43.58	3.582e3					1.5	NO		bb		
3	FUNCTION5 PFK	43.49	6.861e3					1.0	NO		db		
4	FUNCTION5 PFK	43.42	6.376e3					0.9	NO		bd		
5	FUNCTION5 PFK	43.32	1.518e3					0.6	NO		bb		
6	FUNCTION5 PFK	43.26	4.615e2					0.4	NO		bb		
7	FUNCTION5 PFK	43.20	1.245e4					2.0	NO		db		
8	FUNCTION5 PFK	43.11	2.089e4					3.6	YES		bd		
9	FUNCTION5 PFK	44.75	3.136e3					1.0	NO		db		
10	FUNCTION5 PFK	44.70	4.507e3					1.1	NO		bd		
11	FUNCTION5 PFK	44.56	1.385e4					1.7	NO		bb		
12	FUNCTION5 PFK	44.45	3.605e3					1.2	NO		db		
13	FUNCTION5 PFK	44.42	4.402e3					1.2	NO		dd		
14	FUNCTION5 PFK	44.38	6.003e3					1.8	NO		dd		
15	FUNCTION5 PFK	44.35	6.324e3					1.6	NO		bd		
16	FUNCTION5 PFK	44.15	3.696e2					0.3	NO		bb		
17	FUNCTION5 PFK	44.10	7.858e2					0.6	NO		bb		
18	FUNCTION5 PFK	44.07	5.183e2					0.4	NO		bb		
19	FUNCTION5 PFK	44.03	4.185e3					1.4	NO		db		
20	FUNCTION5 PFK	43.99	1.958e3					0.8	NO		bd		
21	FUNCTION5 PFK	43.95	3.475e3					1.4	NO		db		
22	FUNCTION5 PFK	43.91	1.637e3					0.7	NO		bd		
23	FUNCTION5 PFK	43.79	2.870e3					1.2	NO		bb		
24	FUNCTION5 PFK	43.72	4.752e3					1.2	NO		db		
25	FUNCTION5 PFK	45.97	1.474e3					0.8	NO		bb		
26	FUNCTION5 PFK	45.93	6.694e3					1.9	NO		db		
27	FUNCTION5 PFK	45.87	3.465e3					1.4	NO		dd		
28	FUNCTION5 PFK	45.84	5.189e3					1.4	NO		bd		
29	FUNCTION5 PFK	45.80	2.096e3					1.0	NO		bb		
30	FUNCTION5 PFK	45.70	2.250e3					0.8	NO		bb		
31	FUNCTION5 PFK	45.57	7.211e3					1.5	NO		bb		
32	FUNCTION5 PFK	45.49	4.116e3					1.2	NO		bb		
33	FUNCTION5 PFK	45.29	2.948e3					0.9	NO		bb		
34	FUNCTION5 PFK	45.14	9.588e3					1.3	NO		bb		
35	FUNCTION5 PFK	45.08	4.656e3					1.6	NO		db		
36	FUNCTION5 PFK	45.07	4.026e3					1.5	NO		dd		
37	FUNCTION5 PFK	45.03	6.837e3					1.7	NO		dd		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION5 PFK	44.97	7.351e3					1.7	NO		bd		
39	FUNCTION5 PFK	44.85	8.525e3					1.4	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.59	2.314e2					6.4	YES		bb		0.000
2	FUNCTION1 HXCD...	25.28	8.503e1					3.8	YES		bb		0.000
3	FUNCTION1 HXCD...	24.52	1.592e2					2.3	NO		bb		0.000
4	FUNCTION1 HXCD...	22.47	1.409e2					3.7	YES		bb		0.000
5	FUNCTION1 HXCD...	22.02	8.215e1					3.8	YES		bb		0.000
6	FUNCTION1 HXCD...	21.88	1.188e2					4.8	YES		bb		0.000

ETHERS2

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

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.44	1.194e2					1.8	NO		bb		0.000
2	FUNCTION2 HPCD...	31.17	8.642e1					2.5	NO		bb		0.000
3	FUNCTION2 HPCD...	30.82	7.594e1					2.1	NO		bb		0.000
4	FUNCTION2 HPCD...	30.43	7.571e1					2.1	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.21	1.053e2					2.7	NO		bb		0.000
2	FUNCTION3 OCDPE	35.84	1.497e2					3.0	YES		bb		0.000
3	FUNCTION3 OCDPE	34.54	9.465e1					4.0	YES		bb		0.000
4	FUNCTION3 OCDPE	33.58	1.030e2					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	38.13	7.503e3					202.0	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ETHERS6

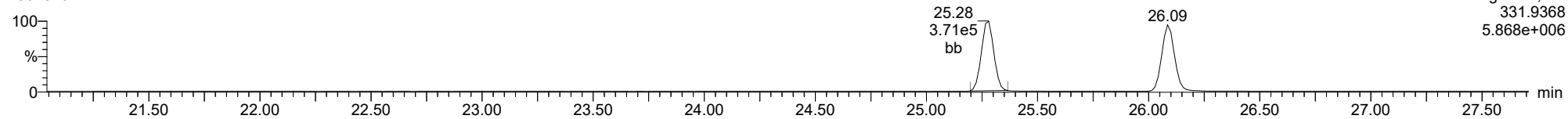
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ID: BLF0318-DUP1, **Name:** 23073107, **Date:** 31-Jul-2023, **Time:** 17:03:52, **Conditions:** AUTOSPEC01, **User:** pk

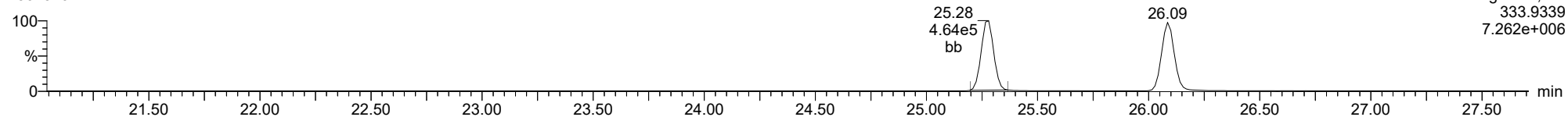
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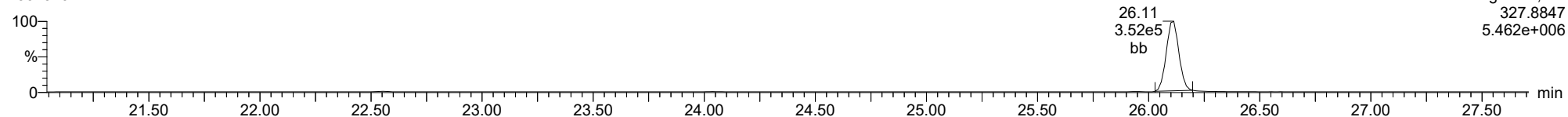
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23073107



37CL-2378-TCDD

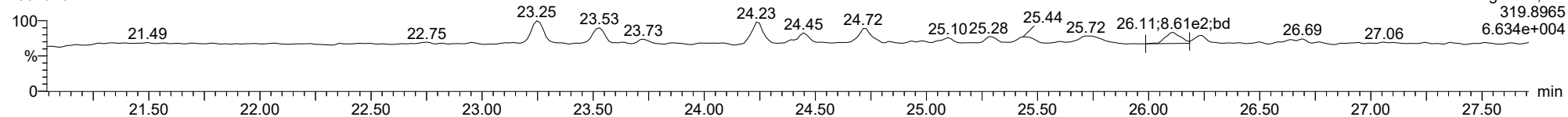
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

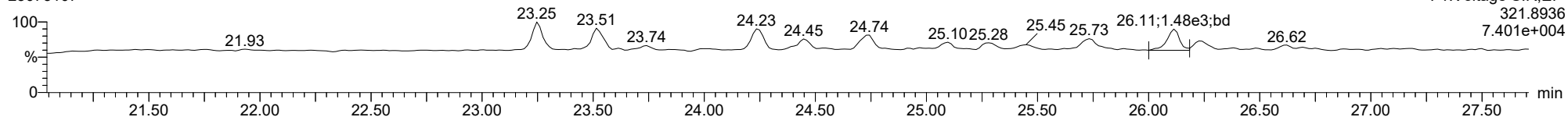
2378-TCDD

23073107



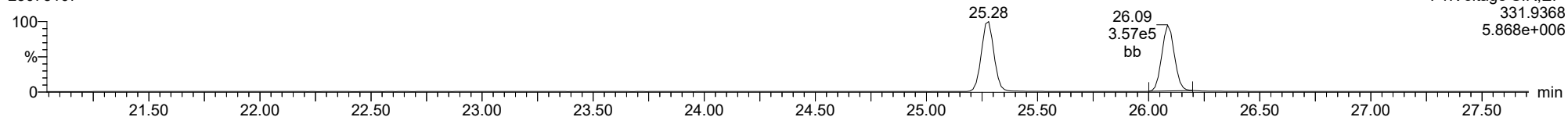
2378-TCDD

23073107



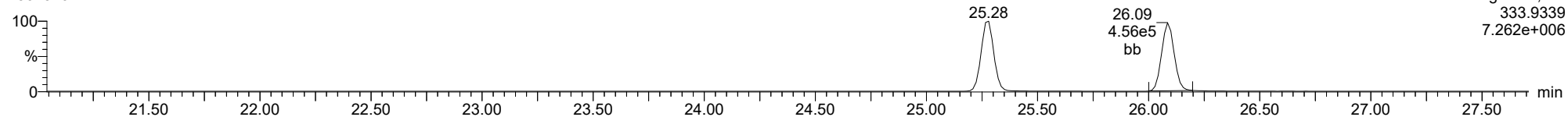
13C-2378-TCDD

23073107



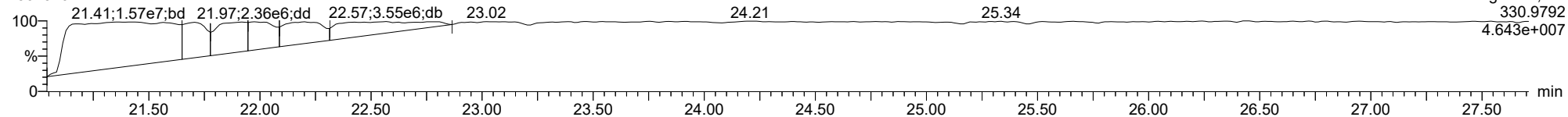
13C-2378-TCDD

23073107



FUNCTION1 PFK

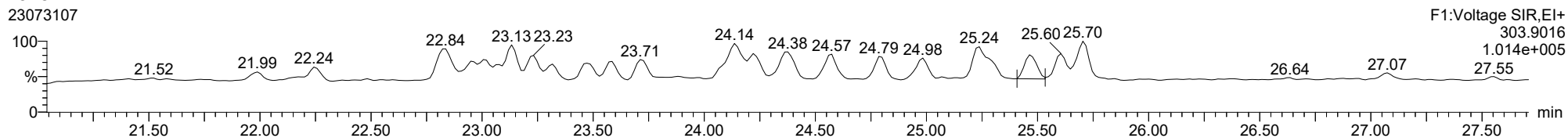
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

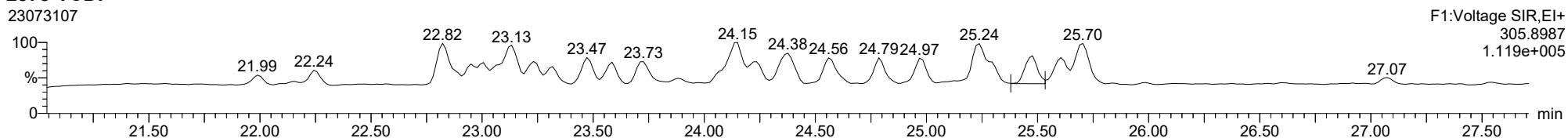
2378-TCDF

23073107



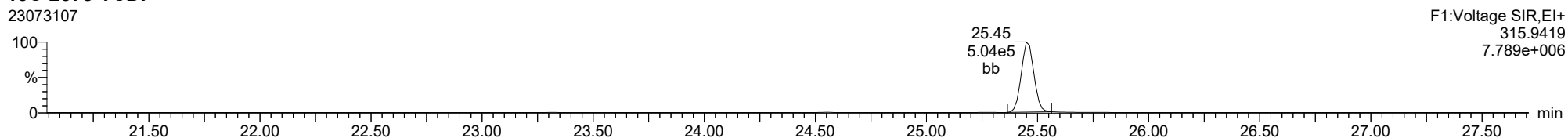
2378-TCDF

23073107



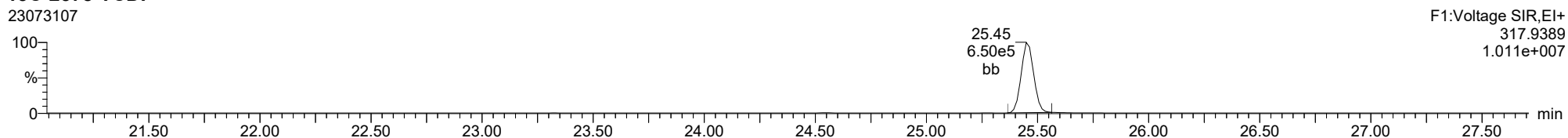
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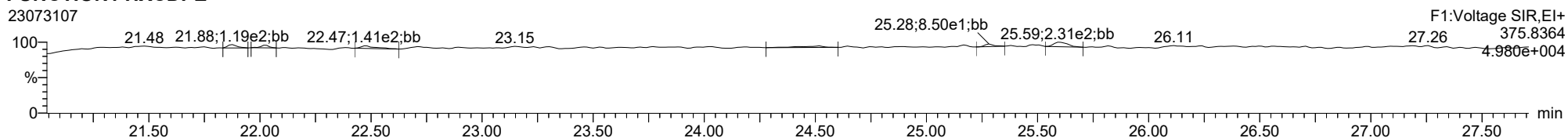
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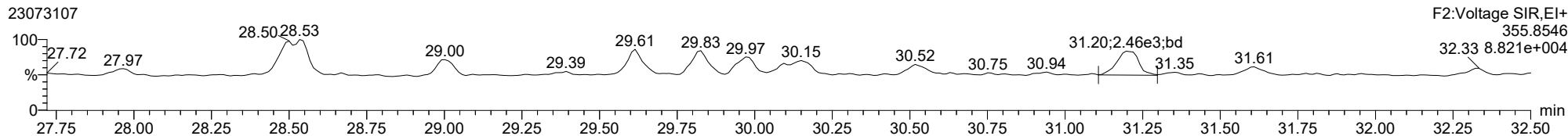
FUNCTION1 HXCDPE

23073107

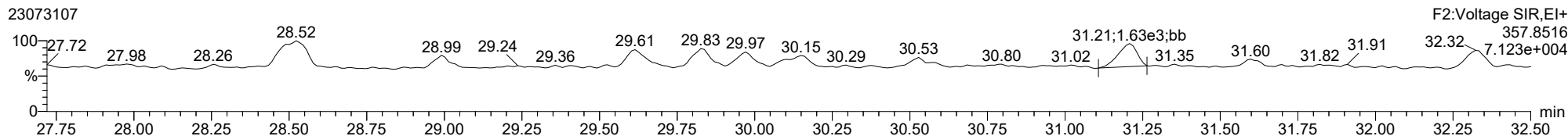


ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

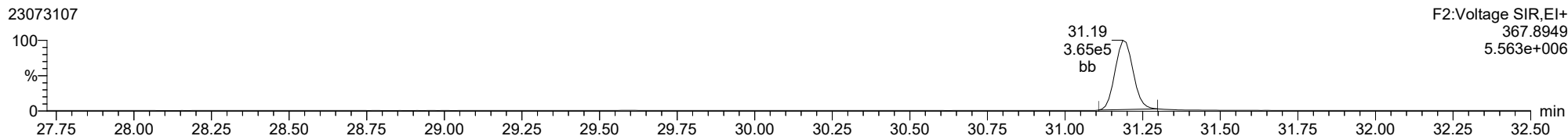
12378-PeCDD



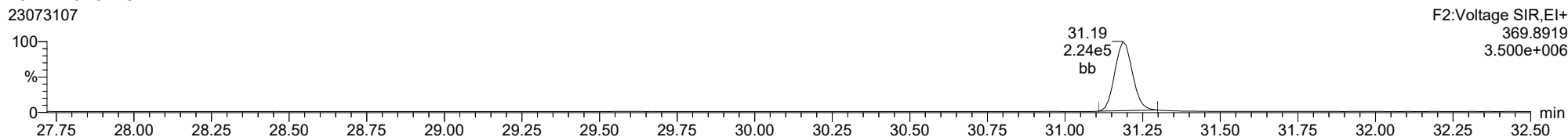
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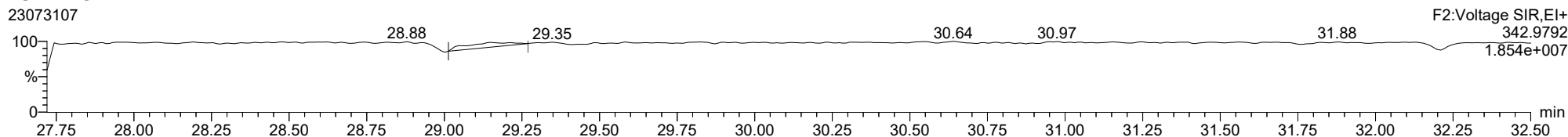
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13C-12378-PeCDD

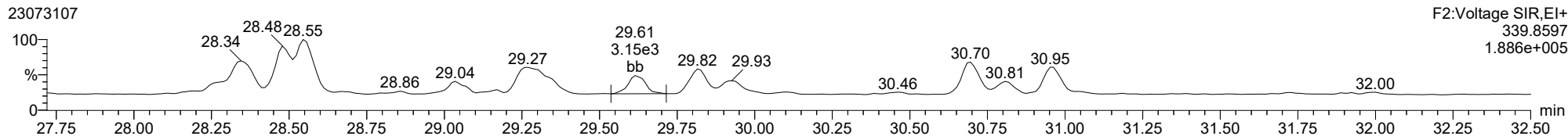


FUNCTION2 PFK

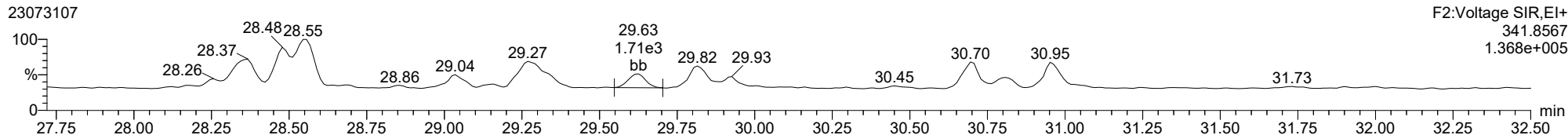


ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

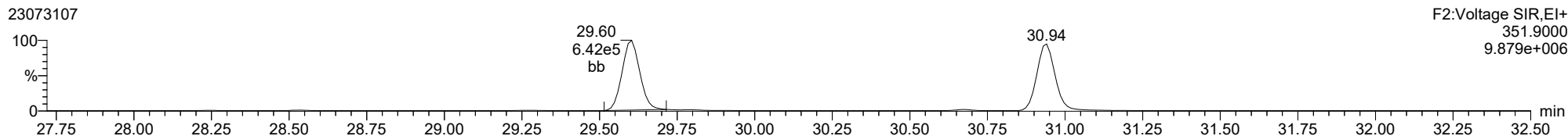
12378-PeCDF



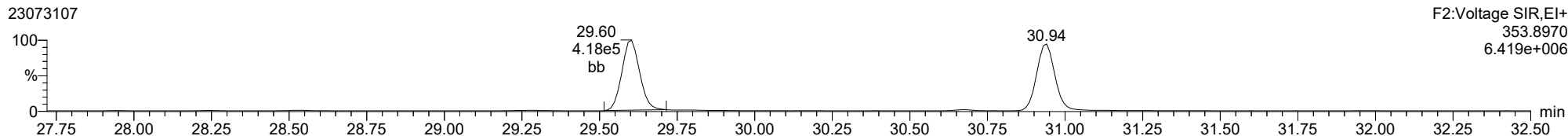
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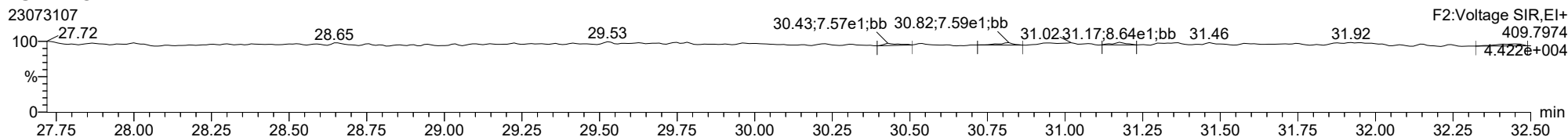
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13C-12378-PeCDF



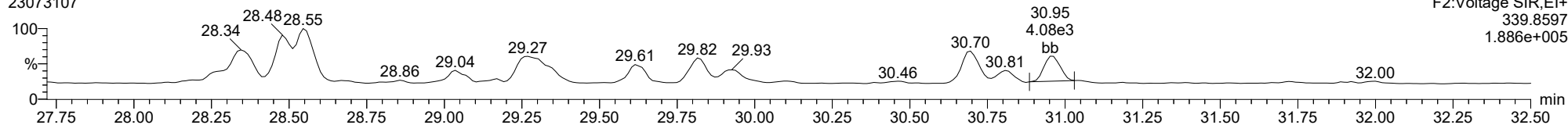
FUNCTION2 HPCDPE



ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

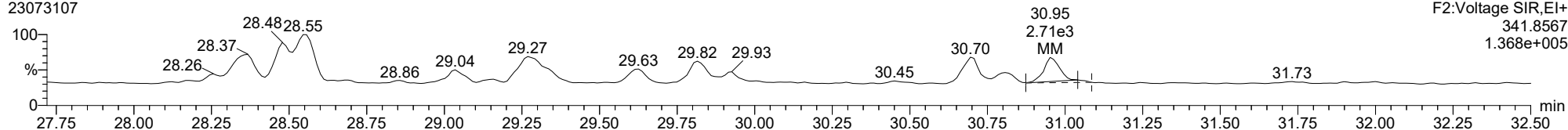
23478-PeCDF

23073107



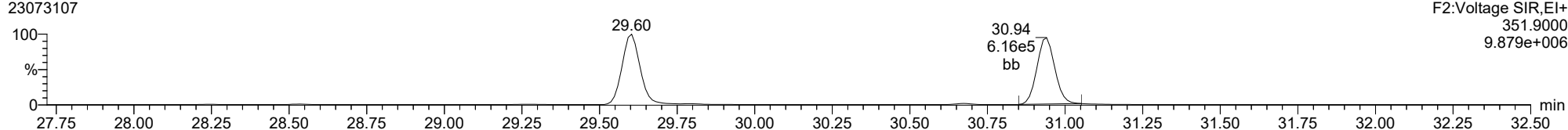
23478-PeCDF

23073107



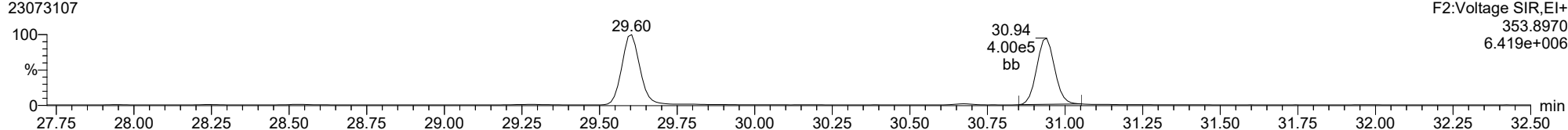
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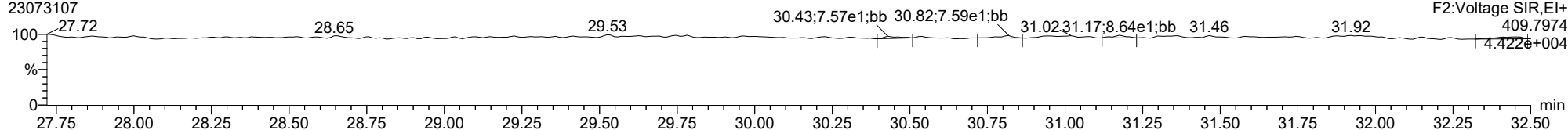
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FUNCTION2 HPCDPE

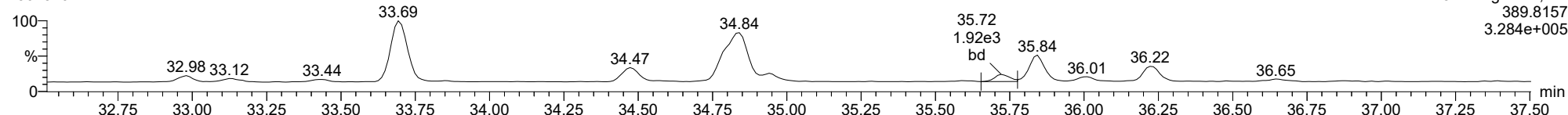
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

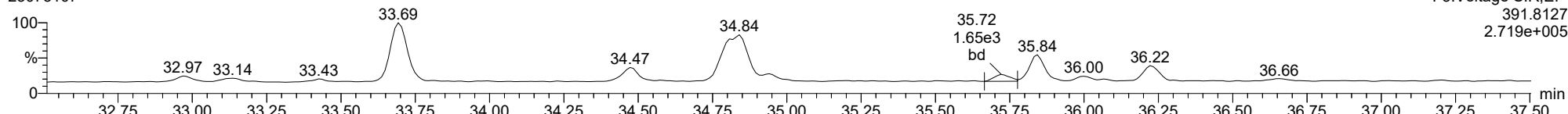
123478-HxCDD

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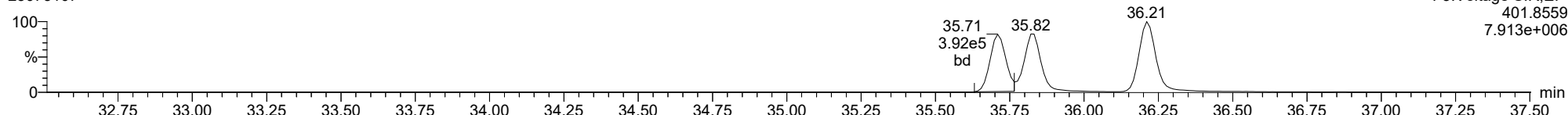
123478-HxCDD

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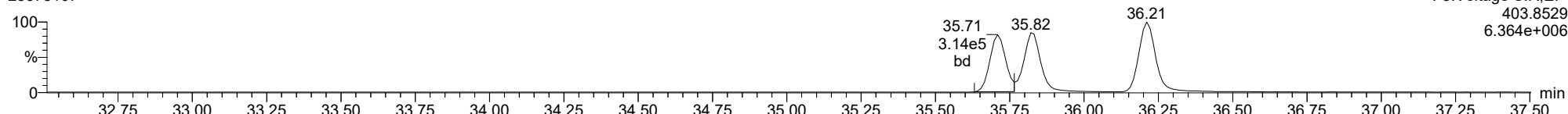
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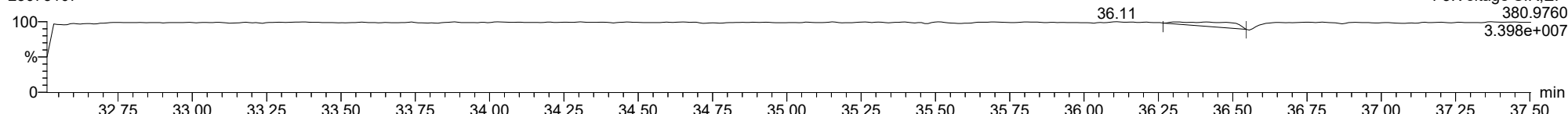
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FUNCTION3 PFK

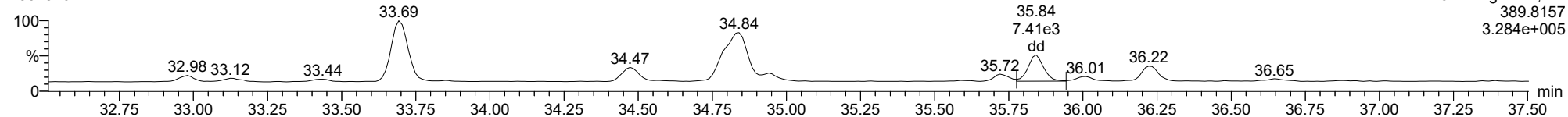
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

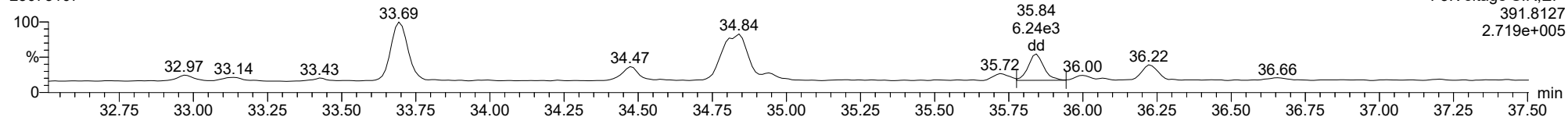
123678-HxCDD

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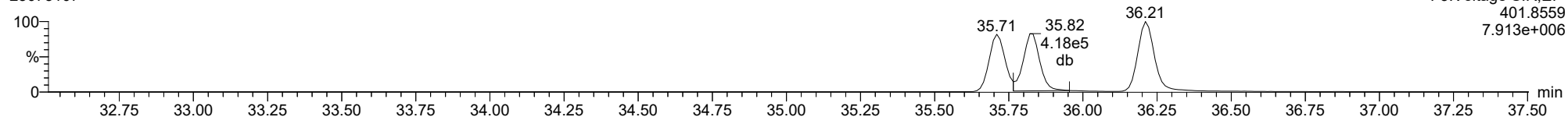
123678-HxCDD

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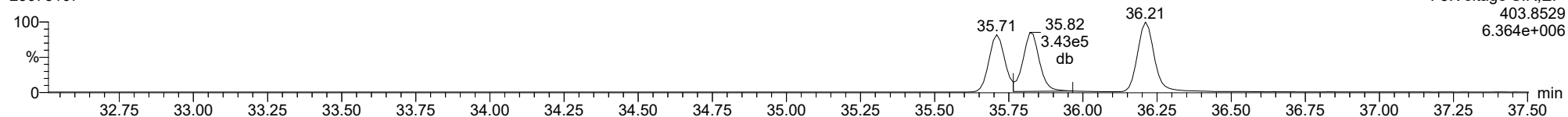
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13C-123678-HxCDD

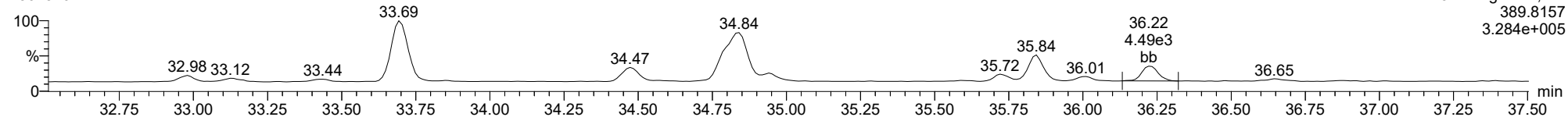
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

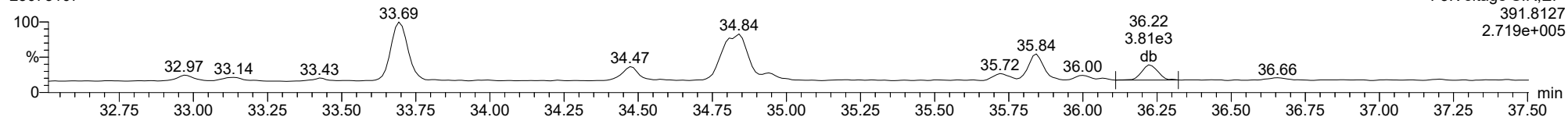
123789-HxCDD

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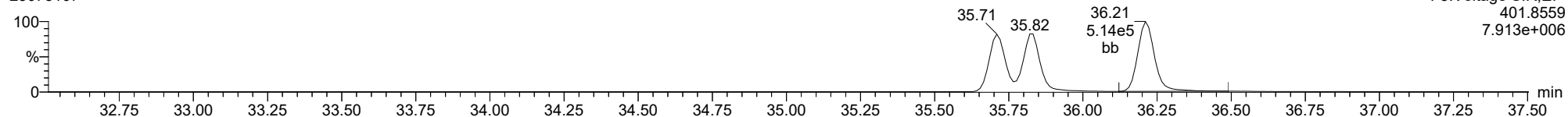
123789-HxCDD

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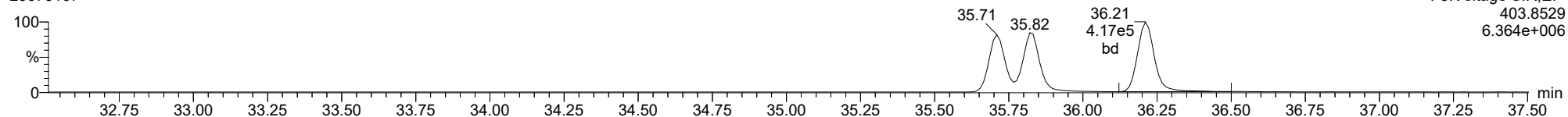
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13C-123789-HxCDD

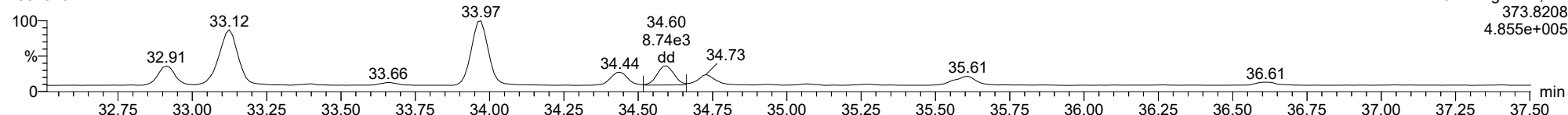
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

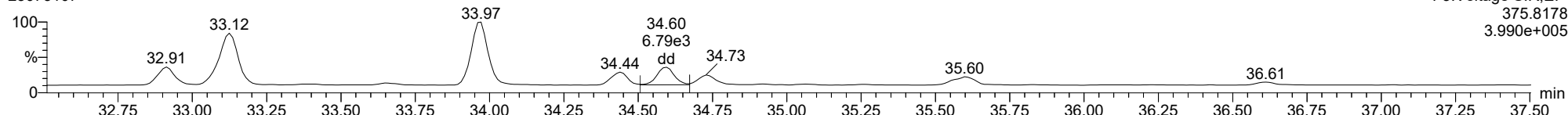
123478-HxCDF

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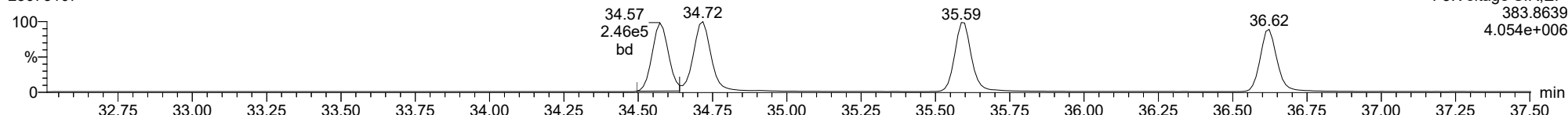
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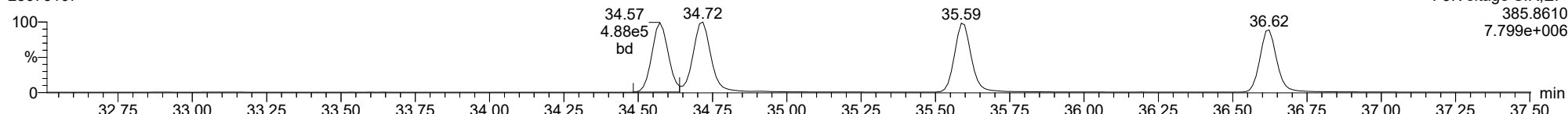
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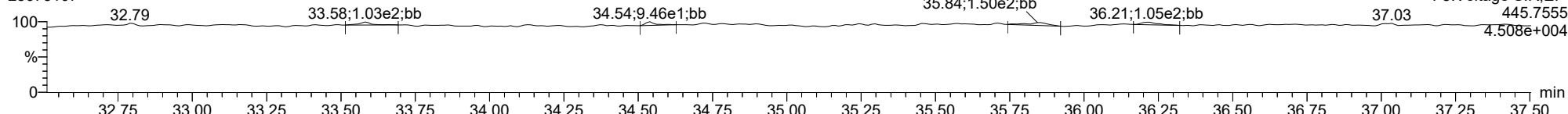
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FUNCTION3 OCDPE

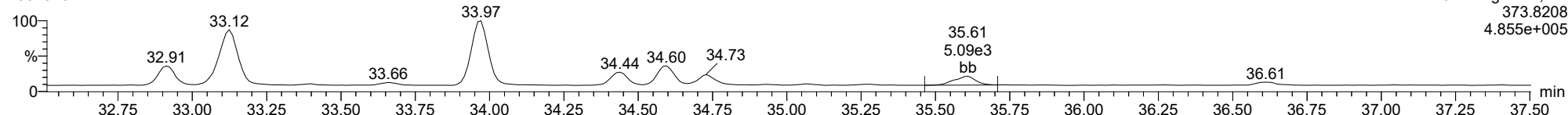
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

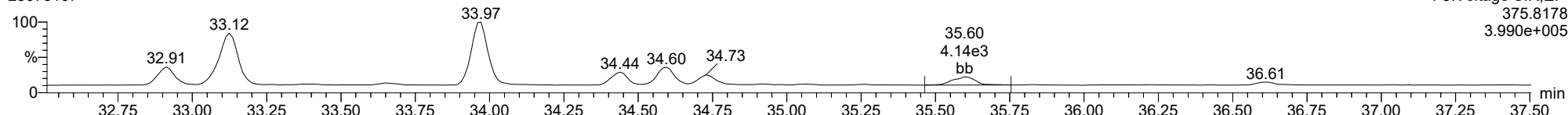
234678-HxCDF

23073107



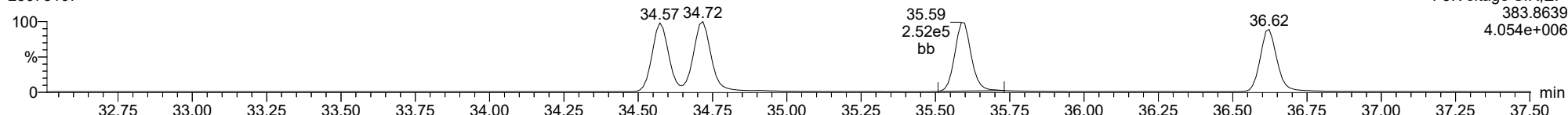
234678-HxCDF

23073107



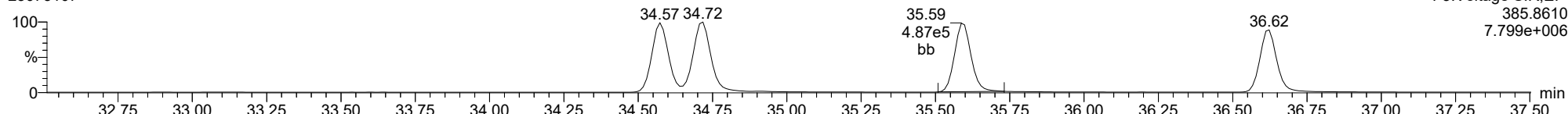
13C-234678-HxCDF

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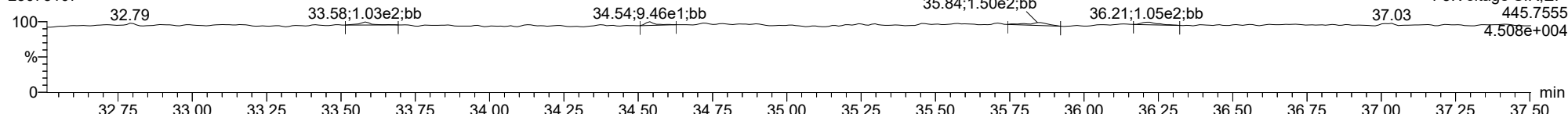
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FUNCTION3 OCDPE

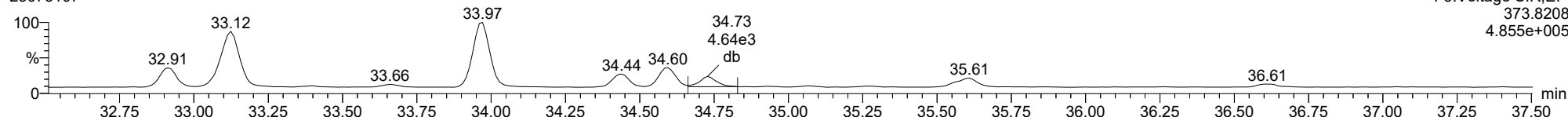
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

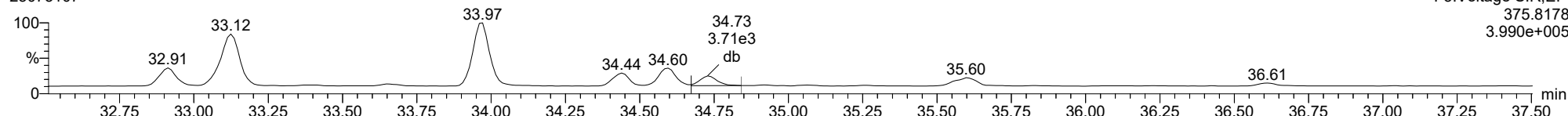
123678-HxCDF

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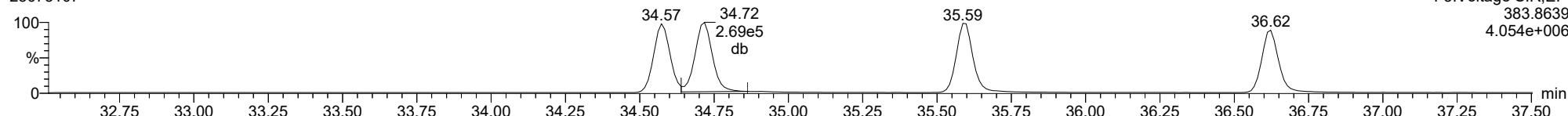
123678-HxCDF

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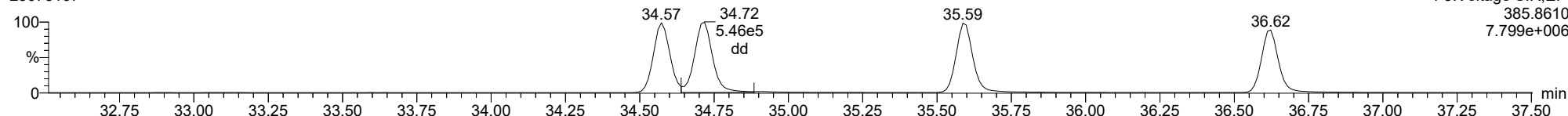
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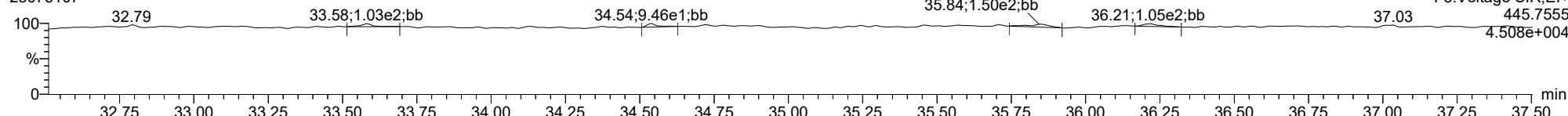
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FUNCTION3 OCDPE

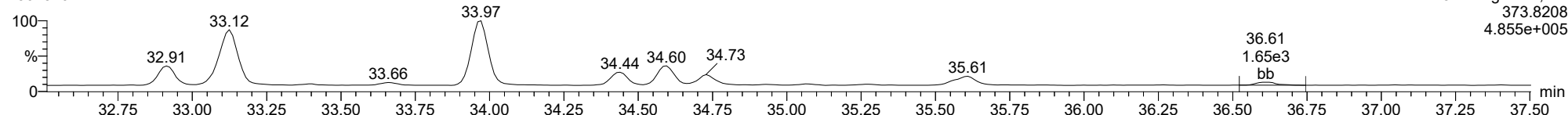
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

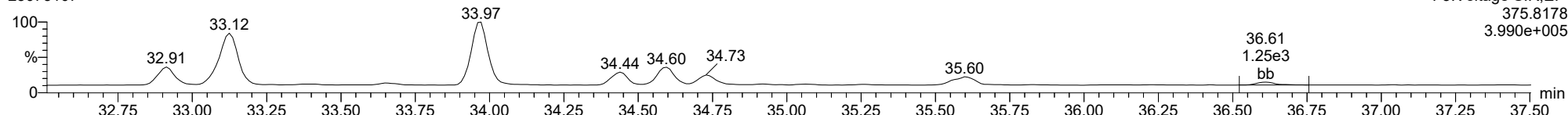
123789-HxCDF

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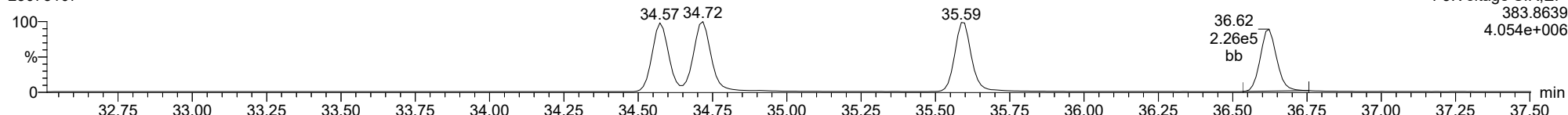
123789-HxCDF

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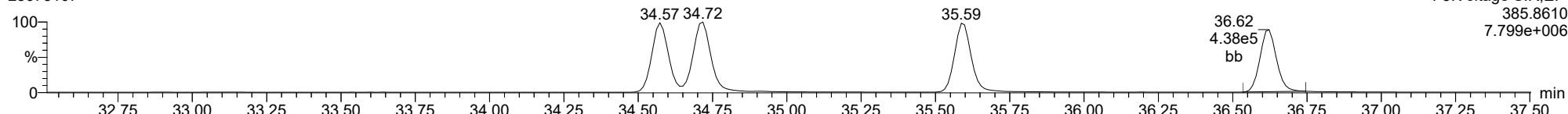
13C-123789-HxCDF

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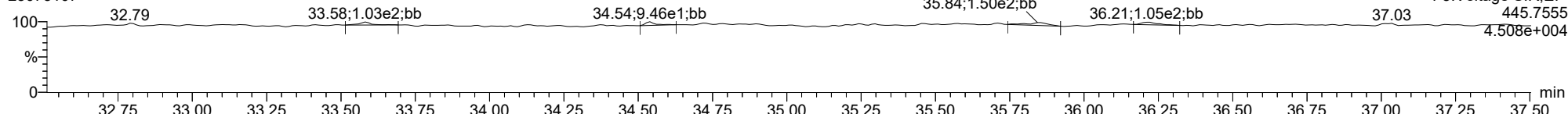
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FUNCTION3 OCDPE

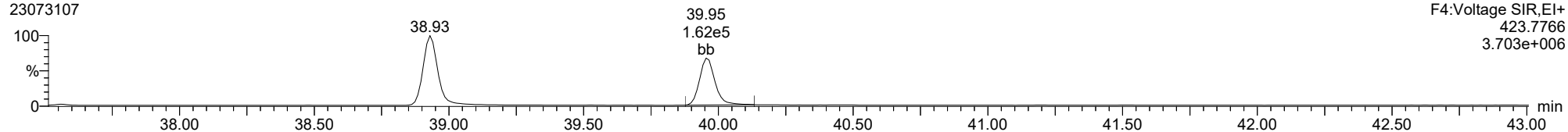
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

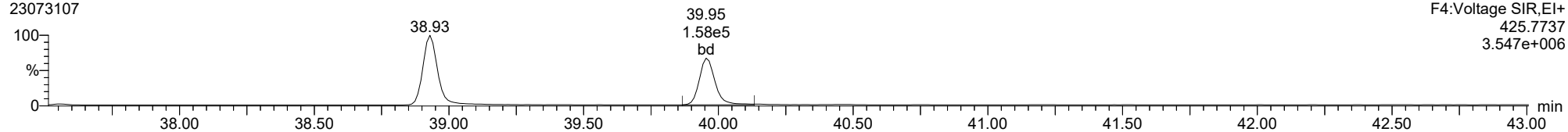
1234678-HpCDD

23073107



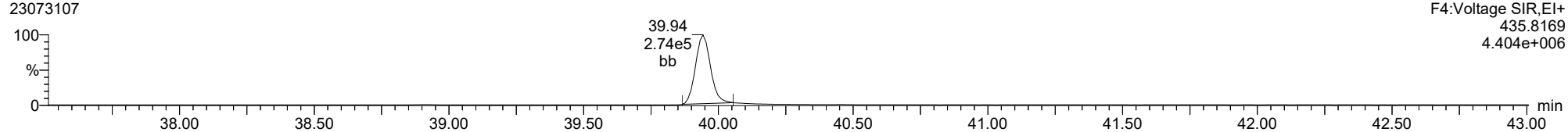
1234678-HpCDD

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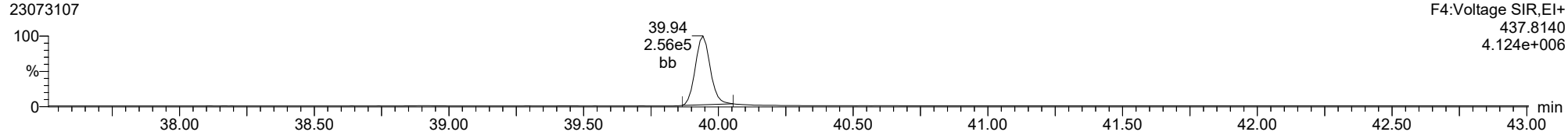
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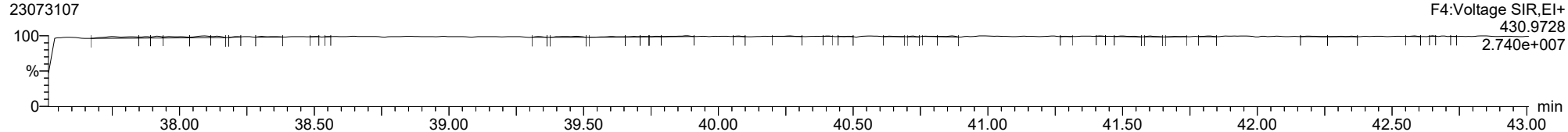
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FUNCTION4 PFK

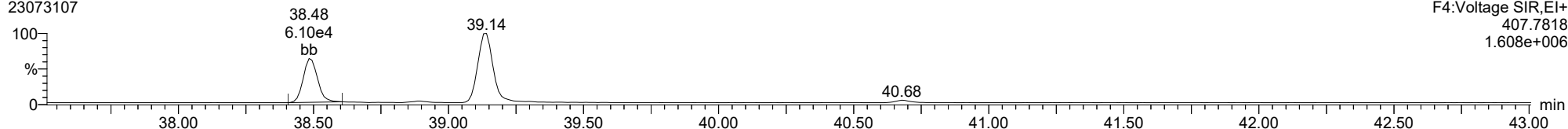
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

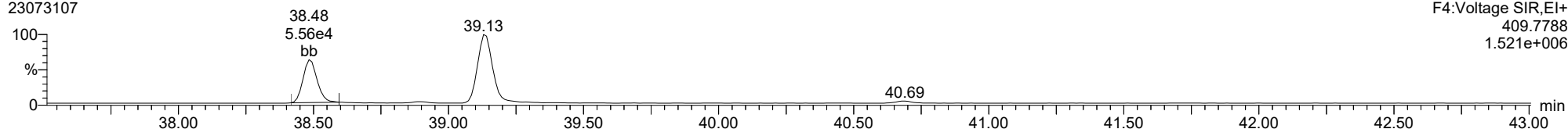
1234678-HpCDF

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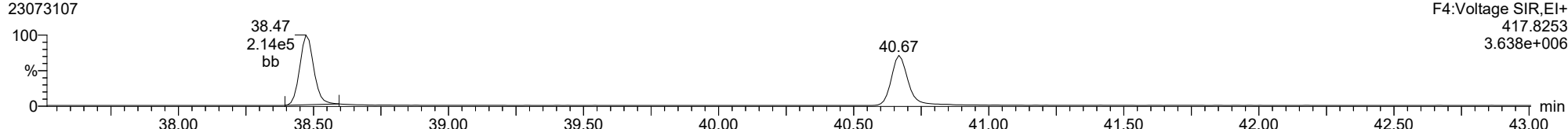
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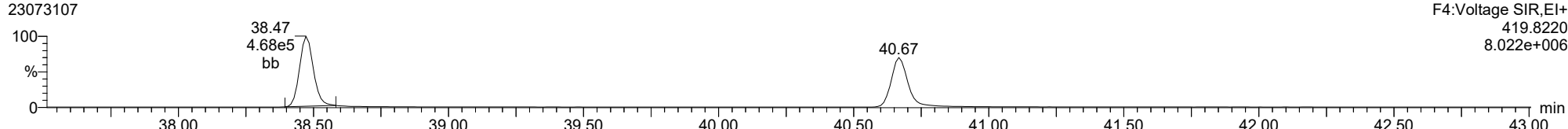
13C-1234678-HpCDF

23073107



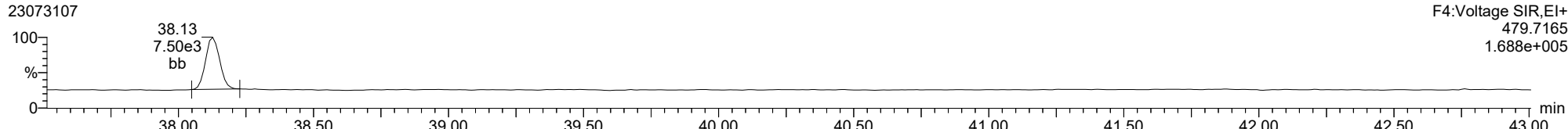
13C-1234678-HpCDF

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FUNCTION4 NCDPE

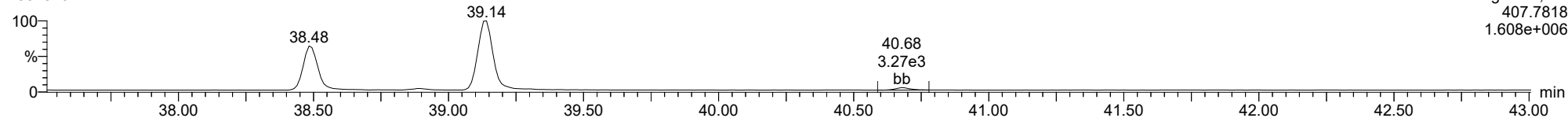
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

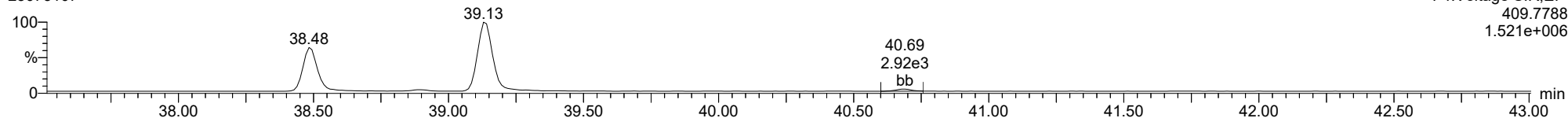
1234789-HpCDF

23073107



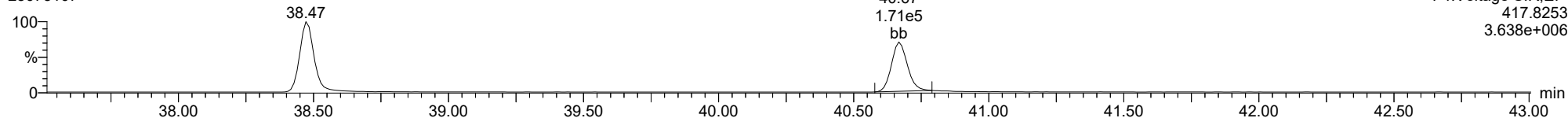
1234789-HpCDF

23073107



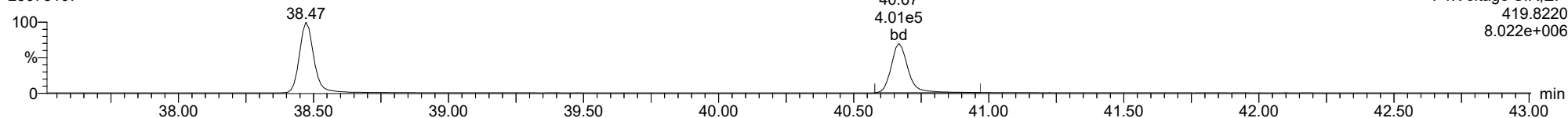
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23073107



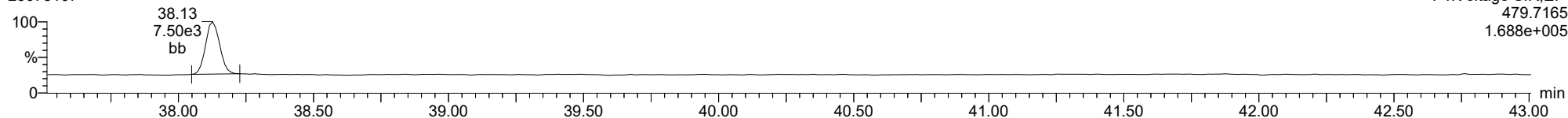
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23073107



FUNCTION4 NCDPE

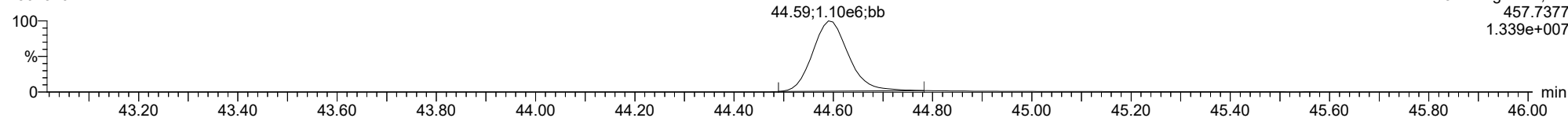
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

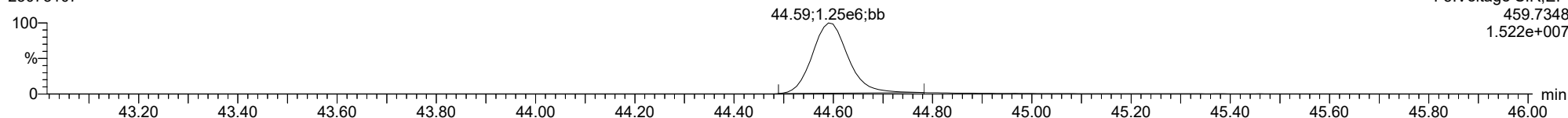
OCDD

23073107



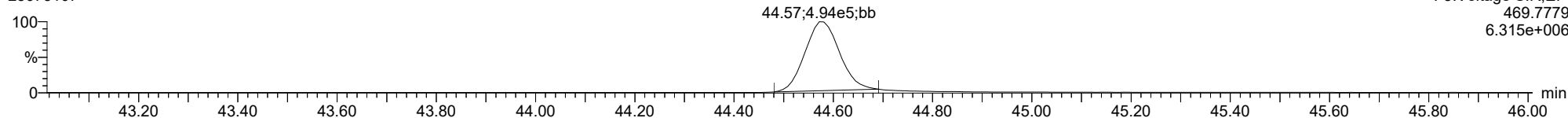
OCDD

23073107



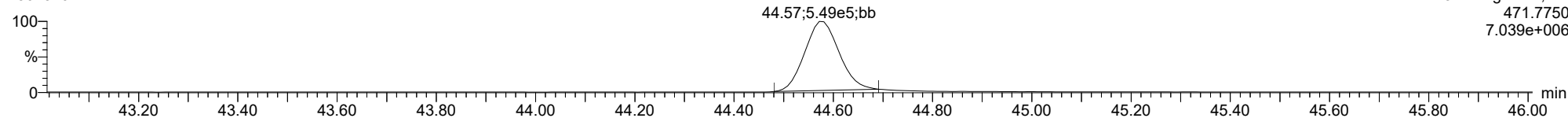
13C-OCDD

23073107



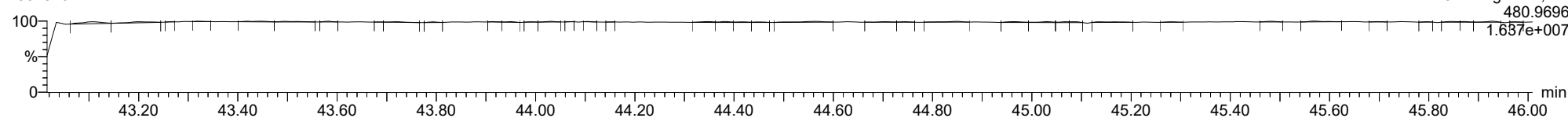
13C-OCDD

23073107



FUNCTION5 PFK

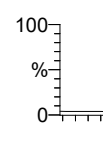
23073107



ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

OCDF

23073107

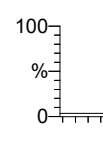


44.83;9.55e4;bd

F5:Voltage SIR,EI+
441.7428
1.129e+006

OCDF

23073107

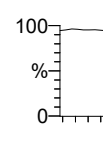


44.83;1.05e5;bd

F5:Voltage SIR,EI+
443.7399
1.221e+006

FUNCTION5 DCDPE

23073107



43.22

43.55

44.16

44.61

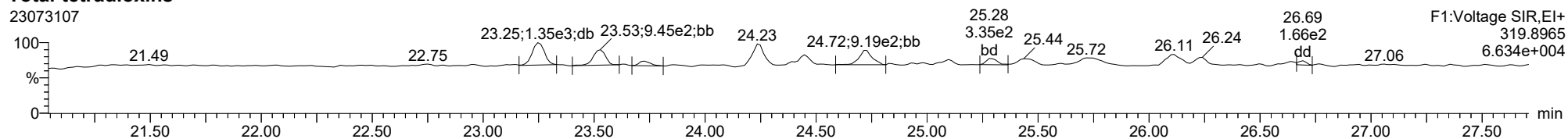
45.54

F5:Voltage SIR,EI+
513.6775
4.519e+004

ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

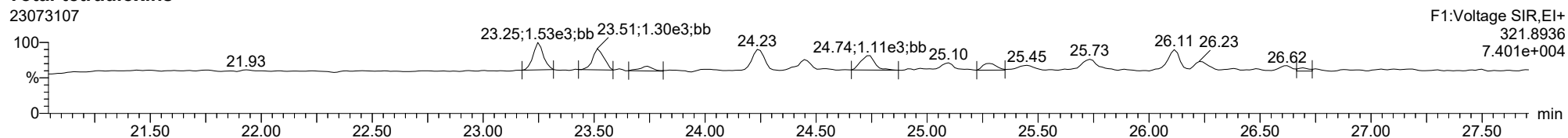
Total-tetradiioxins

23073107



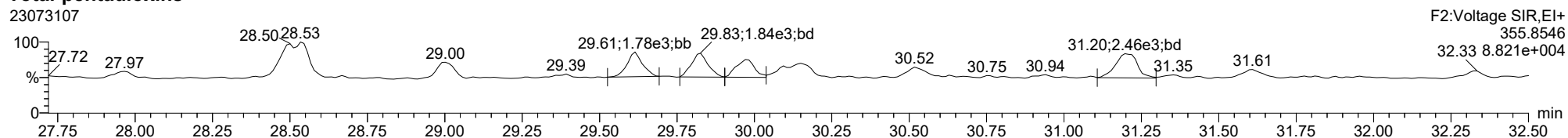
Total-tetradiioxins

23073107



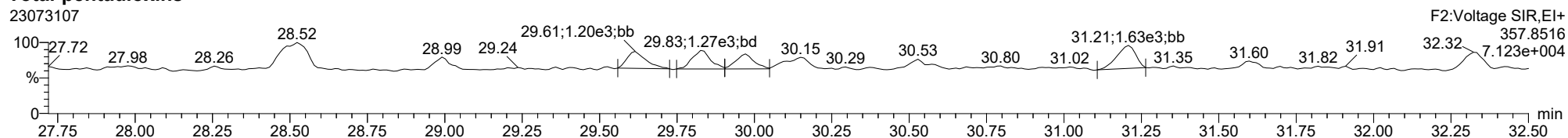
Total-pentadiioxins

23073107



Total-pentadiioxins

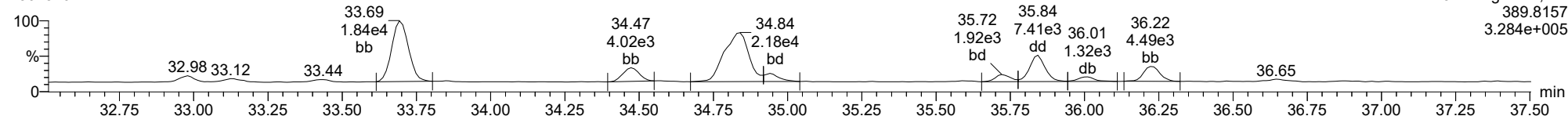
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

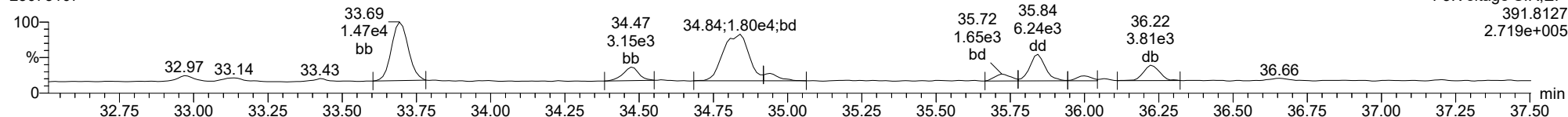
Total-hexadioxins

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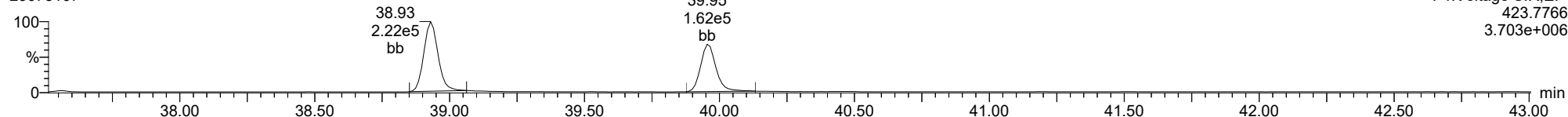
Total-hexadioxins

23073107



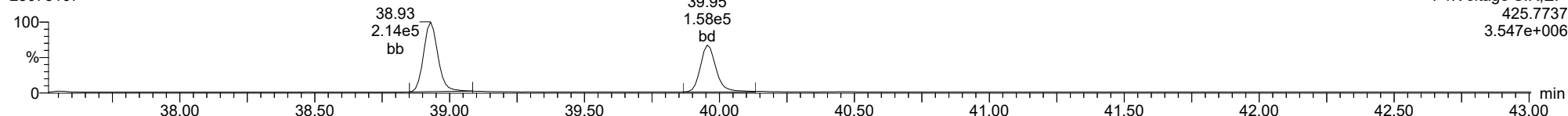
Total-heptadioxins

23073107



Total-heptadioxins

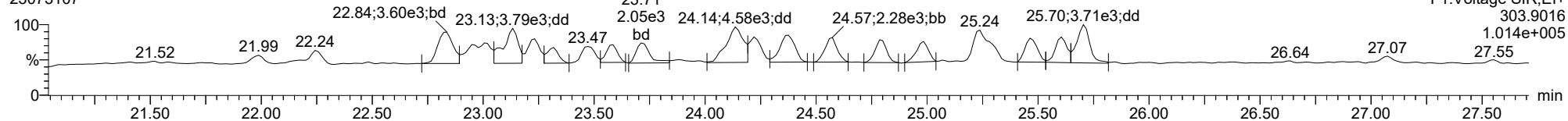
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

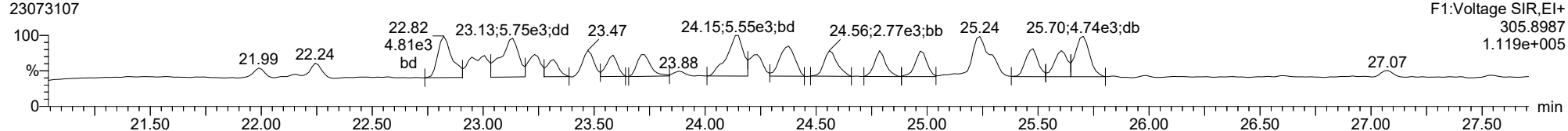
Total-tetrafurans

23073107



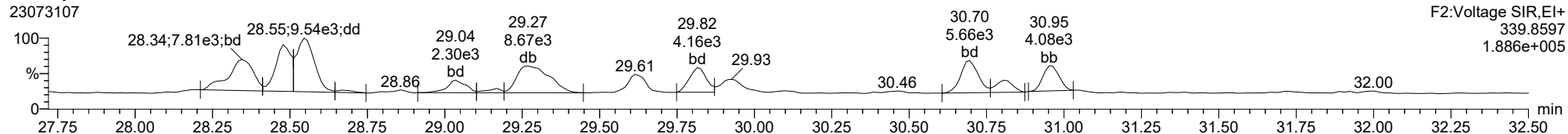
Total-tetrafurans

23073107



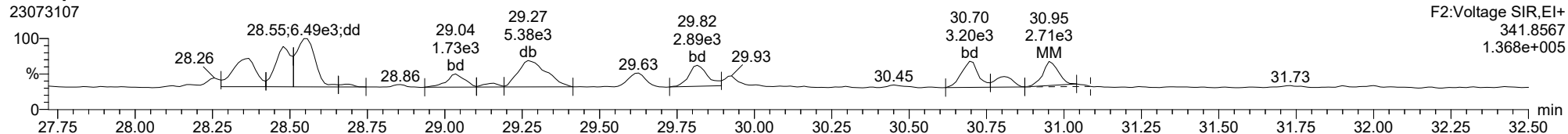
Total-pentafurans

23073107



Total-pentafurans

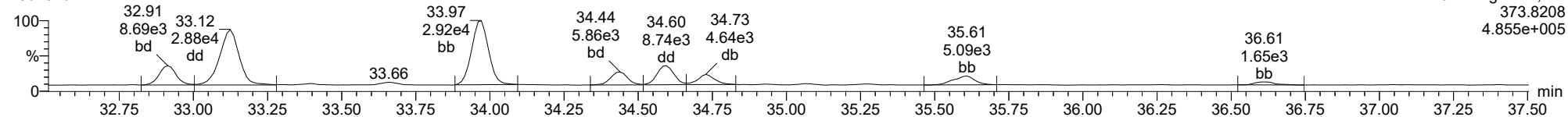
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ID: BLF0318-DUP1, Name: 23073107, Date: 31-Jul-2023, Time: 17:03:52, Conditions: AUTOSPEC01, User: pk

Total-hexafurans

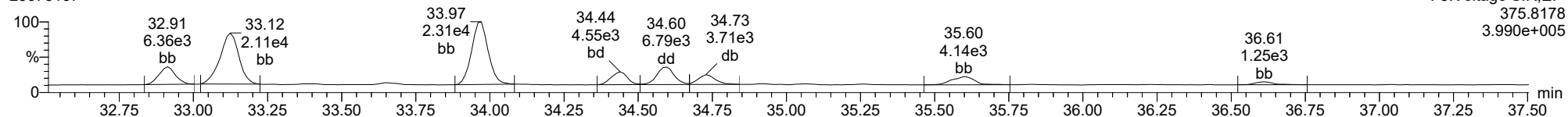
23073107



F3:Voltage SIR,EI+
373.8208
4.855e+005

Total-hexafurans

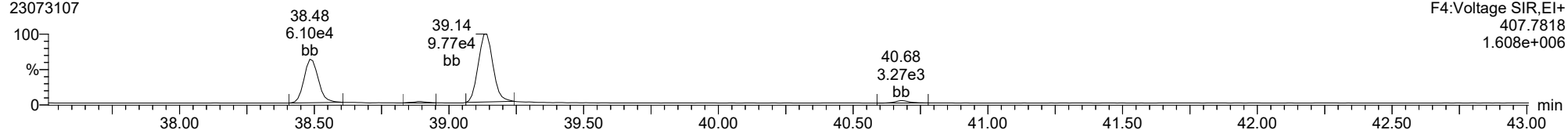
23073107



F3:Voltage SIR,EI+
375.8178
3.990e+005

Total-heptafurans

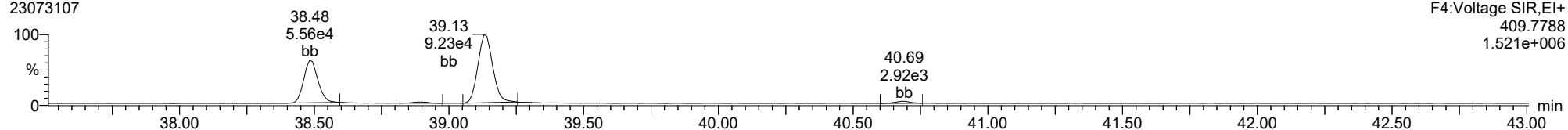
23073107



F4:Voltage SIR,EI+
407.7818
1.608e+006

Total-heptafurans

23073107



F4:Voltage SIR,EI+
409.7788
1.521e+006



STANDARD REFERENCE MATERIAL RECOVERY
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Matrix: Solid

Laboratory ID: BLF0318-SRM1

Batch: BLF0318

Initial/Final: 10.01 g / 20 uL

Preparation: EPA 1613

Analyzed: 07/31/2023 16:14

Standard ID: L004753

Expires: 10/28/2023

Standard Lot#: PSRM0175

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	0.932	0.095	0.999	EMPC, J	83.9	50 - 150
2,3,7,8-TCDD	1.0500	0.907	0.150	0.999	J	86.4	50 - 150
1,2,3,7,8-PeCDF	1.2300	1.24	0.240	0.999		100	50 - 150
2,3,4,7,8-PeCDF	1.0700	0.952	0.220	0.999	J	89.0	50 - 150
1,2,3,7,8-PeCDD	1.0800	1.35	0.185	0.999		125	50 - 150
1,2,3,4,7,8-HxCDF	3.0200	2.82	0.280	0.999		93.5	50 - 150
1,2,3,6,7,8-HxCDF	1.0900	0.922	0.200	0.999	J	84.6	50 - 150
2,3,4,6,7,8-HxCDF	1.8300	1.88	0.170	0.999		103	50 - 150
1,2,3,7,8,9-HxCDF	0.51100	0.706	0.190	0.999	J	138	50 - 150
1,2,3,4,7,8-HxCDD	1.5900	1.44	0.170	0.999		90.6	50 - 150
1,2,3,6,7,8-HxCDD	3.8800	3.53	0.180	0.999		90.9	50 - 150
1,2,3,7,8,9-HxCDD	3.0400	2.72	0.220	0.999		89.6	50 - 150
1,2,3,4,6,7,8-HpCDF	18.700	20.1	0.210	0.999	B	108	50 - 150
1,2,3,4,7,8,9-HpCDF	1.6300	1.51	0.240	0.999		92.5	50 - 150
1,2,3,4,6,7,8-HpCDD	90.600	103	0.559	2.50	B	113	50 - 150
OCDF	58.400	45.4	1.10	2.50	B	77.7	50 - 150
OCDD	811.00	810	4.60	9.99	B	99.9	50 - 150

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:33 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
 Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, 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	25.449	1.001	2.520e3	2.709e3	0.951	0.930	0.770	1549	1116	3.74e4	4.10e4	24.2	36.7	YES	dd	bd	0.466
12378-PeCDF	29.604	1.001	3.874e3	2.728e3	0.963	1.420	1.550	2291	1190	5.55e4	3.85e4	24.2	32.4	NO	dd	dd	0.618
23478-PeCDF	30.941	1.001	3.276e3	2.186e3	1.072	1.499	1.550	2291	1190	4.09e4	2.95e4	17.9	24.8	NO	db	dd	0.477
123478-HxCDF	34.584	1.001	6.642e3	5.519e3	1.142	1.203	1.240	808	835	9.66e4	8.66e4	119.6	103.7	NO	dd	bd	1.413
234678-HxCDF	35.597	1.000	4.671e3	3.678e3	1.138	1.270	1.240	808	835	5.27e4	4.08e4	65.2	48.8	NO	bb	bb	0.943
123678-HxCDF	34.717	1.000	2.485e3	2.016e3	1.100	1.233	1.240	808	835	3.59e4	3.26e4	44.5	39.0	NO	db	db	0.461
123789-HxCDF	36.600	1.000	1.380e3	1.222e3	1.066	1.130	1.240	808	835	1.72e4	1.42e4	21.3	17.0	NO	MM	bb	0.354
1234678-HpCDF	38.472	1.000	4.065e4	4.146e4	1.210	0.980	1.050	1035	1097	6.93e5	6.68e5	669.0	608.9	NO	bb	bd	10.072
1234789-HpCDF	40.667	1.001	2.424e3	2.462e3	1.213	0.984	1.050	1035	1097	3.40e4	3.43e4	32.8	31.3	NO	bb	bb	0.754
OCDF	44.809	1.006	7.333e4	7.923e4	1.391	0.925	0.890	817	1284	8.27e5	8.85e5	1012.3	689.6	NO	bd	bd	22.707
2378-TCDD	26.085	1.001	1.900e3	2.660e3	1.197	0.714	0.770	1052	795	2.85e4	3.79e4	27.1	47.8	NO	bd	bd	0.454
12378-PeCDD	31.186	1.000	2.834e3	1.954e3	1.129	1.450	1.550	1580	1704	3.70e4	2.67e4	23.4	15.6	NO	bb	bb	0.674
123478-HxCDD	35.720	1.000	2.777e3	2.134e3	0.917	1.301	1.240	998	1341	4.21e4	3.94e4	42.2	29.4	NO	bd	bd	0.721
123678-HxCDD	35.831	1.000	7.556e3	6.118e3	0.944	1.235	1.240	998	1341	1.13e5	8.67e4	113.0	64.7	NO	dd	dd	1.765
123789-HxCDD	36.222	1.011	5.185e3	4.079e3	0.869	1.271	1.240	998	1341	8.01e4	6.48e4	80.2	48.4	NO	bb	bb	1.364
1234678-HpCDD	39.943	1.001	1.668e5	1.646e5	1.237	1.013	1.050	2132	2316	2.48e6	2.37e6	1164.3	1021.9	NO	bb	bd	51.304
OCDD	44.580	1.000	1.091e6	1.284e6	1.212	0.850	0.890	1970	2190	1.28e7	1.45e7	6479.8	6612.2	NO	bb	bd	405.524
13C-2378-TCDF	25.435	1.007	5.186e5	6.600e5	1.920	0.786	0.770	2228	1608	7.81e6	1.01e7	3507.5	6265.9	NO	bb	bb	72.820
13C-12378-PeCDF	29.581	1.171	6.711e5	4.380e5	1.455	1.532	1.550	2664	2349	1.00e7	6.54e6	3772.3	2782.5	NO	bb	bb	90.397
13C-23478-PeCDF	30.918	1.224	6.508e5	4.180e5	1.363	1.557	1.550	2664	2349	9.69e6	6.29e6	3637.0	2679.3	NO	bb	bb	93.020
13C-123478-HxCDF	34.562	0.955	2.546e5	4.993e5	1.119	0.510	0.510	1336	1639	3.88e6	7.61e6	2902.3	4643.8	NO	bd	bd	75.661
13C-123678-HxCDF	34.706	0.959	2.909e5	5.964e5	1.343	0.488	0.510	1336	1639	4.06e6	7.95e6	3039.1	4848.6	NO	db	dd	74.189
13C-234678-HxCDF	35.586	0.983	2.623e5	5.158e5	1.113	0.508	0.510	1336	1639	3.97e6	7.69e6	2972.6	4694.8	NO	bb	bb	78.518
13C-123789-HxCDF	36.600	1.011	2.354e5	4.547e5	0.959	0.518	0.510	1336	1639	3.77e6	7.33e6	2819.4	4471.3	NO	bb	bb	80.833
13C-1234678-HpCDF	38.461	1.062	2.088e5	4.650e5	1.058	0.449	0.440	1695	1984	3.51e6	7.70e6	2070.4	3881.7	NO	bb	bb	71.486
13C-1234789-HpCDF	40.645	1.123	1.678e5	3.663e5	0.809	0.458	0.440	1695	1984	2.38e6	5.22e6	1403.5	2630.7	NO	bb	bb	74.168
13C-1234-TCDD	25.252	0.000	3.710e5	4.721e5	1.000	0.786	0.770	1711	1015	5.70e6	7.26e6	3333.3	7149.4	NO	bb	bb	100.000
13C-2378-TCDD	26.071	1.032	3.716e5	4.675e5	1.104	0.795	0.770	1711	1015	5.61e6	7.06e6	3281.0	6958.7	NO	bb	bb	90.135
13C-12378-PeCDD	31.174	1.235	3.906e5	2.387e5	0.770	1.636	1.550	1232	1074	5.84e6	3.58e6	4739.4	3333.1	NO	bb	bb	96.910
13C-123478-HxCDD	35.709	0.986	4.148e5	3.279e5	0.959	1.265	1.240	1517	1315	6.37e6	5.04e6	4201.6	3831.7	NO	bd	bd	86.936
13C-123678-HxCDD	35.820	0.990	4.489e5	3.718e5	1.120	1.207	1.240	1517	1315	6.67e6	5.38e6	4396.1	4094.0	NO	db	db	82.260
13C-1234678-HpCDD	39.920	1.103	2.720e5	2.502e5	0.640	1.087	1.050	1582	3250	4.20e6	3.87e6	2653.3	1190.5	NO	bb	bb	91.566
13C-OCDD	44.562	1.231	4.603e5	5.059e5	0.555	0.910	0.890	2011	1332	5.82e6	6.42e6	2892.0	4816.8	NO	bb	bb	195.347
13C-123789-HxCDD	36.199	0.000	4.953e5	3.954e5	1.000	1.253	1.240	1517	1315	7.34e6	5.96e6	4842.4	4535.9	NO	bd	bd	100.000
37CL-2378-TCDD	26.085	1.033	3.542e5		1.129			1264		5.26e6		4163.9			bb		37.198

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:33 Pacific Daylight Time

ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.961	0.863	5.531e2	6.556e2	1.201	0.844	0.770	1549	1116	1.09e4	1.10e4	7.0	9.8	NO	bb	bd	0.085
1289-TCDF					0.950		0.770	1549	1116								
13468-PECDF	26.876	0.909	1.744e4	1.192e4	1.142	1.462	1.550	785	837	2.39e5	1.55e5	304.5	184.9	NO	db	db	2.317
12389-PECDF					0.917		1.550	2291	1190								
123468-HXCDF	32.902	0.952	6.377e3	4.636e3	1.332	1.376	1.240	808	835	1.00e5	7.40e4	124.0	88.5	NO	bb	bb	1.097
1368-TCDD	23.232	0.891	1.347e3	1.924e3	1.148	0.700	0.770	1052	795	2.28e4	2.82e4	21.7	35.5	NO	bb	bb	0.339
1289-TCDD	26.622	1.021	3.278e2	2.213e2	0.955	1.481	0.770	1052	795	4.09e3	4.91e3	3.9	6.2	YES	bd	bd	0.069
12479-PECDD	28.501	0.914	4.510e3	3.168e3	2.043	1.423	1.550	1580	1704	4.97e4	3.22e4	31.5	18.9	NO	MM	MM	0.597
12389-PECDD	31.587	1.013	4.273e2	3.744e2	1.326	1.141	1.550	1580	1704	7.31e3	6.23e3	4.6	3.7	YES	bb	db	0.096
124679-HXCDD	33.681	0.943	1.929e4	1.578e4	1.104	1.222	1.240	998	1341	2.87e5	2.19e5	287.5	163.1	NO	bb	bd	4.278
1234679-HPCDD	38.918	0.975	2.467e5	2.384e5	1.554	1.035	1.050	2132	2316	3.91e6	3.78e6	1832.4	1630.9	NO	bb	bb	59.762
Total-tetrafurans			2.432e4		1.034			1549		3.50e5							4.409
Total-penta1			1.744e4					785		2.39e5							2.317
Total-pentafurans			2.516e4		0.984			2291		3.62e5							3.888
Total-hexafurans			7.031e4		1.155			808		1.01e6							13.960
Total-heptafurans			1.240e5		1.211			1035		2.05e6							32.202
Total-Furans			3.354e5		1.119			1549		4.85e6							79.642
Total-tetradoxins			7.457e3		1.100			1052		1.18e5							1.864
Total-pentadoxins			1.485e4		1.499			1580		2.03e5							2.561
Total-hexadoxins			6.111e4		0.958			998		8.08e5							14.623
Total-heptadoxins			4.135e5		1.396			2132		6.39e6							111.066
Total-Dioxins			1.588e6		1.203			1052		2.03e7							535.639
Total-TEQ			1.924e6					1052		2.51e7							615.281
FUNCTION1 PFK			4.483e6					360204		3.06e7							
FUNCTION2 PFK			1.511e6					260123		7.41e6							0.000
FUNCTION3 PFK			5.680e6					252932		2.80e7							0.000
FUNCTION4 PFK			5.728e5					231947		1.62e7							
FUNCTION5 PFK			0.000e0					140513		0.00e0							
FUNCTION1 HXCD...			1.873e3					634		3.06e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			5.901e2					694		1.20e4							0.000
FUNCTION3 OCDPE			3.819e2					538		5.86e3							0.000
FUNCTION4 NCDPE			1.193e4					449		1.96e5							0.000
FUNCTION5 DCDPE			0.000e0					506		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:20:33 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, 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	23.46	1.420e3	1.861e3	1.034	0.76	0.77	13.1	YES	NO	dd	bd	0.269
2	Total-tetrafurans	23.10	1.554e3	2.140e3	1.034	0.73	0.77	14.2	YES	NO	dd	dd	0.303
3	Total-tetrafurans	22.98	4.812e2	7.021e2	1.034	0.69	0.77	7.8	YES	NO	dd	dd	0.097
4	Total-tetrafurans	22.79	3.108e3	3.692e3	1.034	0.84	0.77	27.8	YES	NO	bd	bd	0.558
5	1368-TCDF	21.96	5.531e2	6.556e2	1.201	0.84	0.77	7.0	YES	NO	bb	bd	0.085
6	Total-tetrafurans	24.36	2.402e3	2.859e3	1.034	0.84	0.77	20.6	YES	NO	dd	dd	0.432
7	Total-tetrafurans	24.19	4.553e3	5.280e3	1.034	0.86	0.77	39.5	YES	NO	dd	dd	0.807
8	Total-tetrafurans	23.85	2.045e3	2.607e3	1.034	0.78	0.77	18.6	YES	NO	dd	db	0.382
9	Total-tetrafurans	23.71	2.265e3	2.740e3	1.034	0.83	0.77	21.0	YES	NO	dd	dd	0.411
10	Total-tetrafurans	26.59	4.628e2	5.787e2	1.034	0.80	0.77	5.2	YES	NO	db	bb	0.085
11	Total-tetrafurans	25.68	2.170e3	2.555e3	1.034	0.85	0.77	16.4	YES	NO	dd	dd	0.388
12	Total-tetrafurans	24.55	3.302e3	3.922e3	1.034	0.84	0.77	34.8	YES	NO	MM	MM	0.593

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.88	1.744e4	1.192e4	1.142	1.46	1.55	304.5	YES	NO	db	db	2.317

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	27.87	1.177e3	7.694e2	0.984	1.53	1.55	7.3	YES	NO	bb	bb	0.182
2	23478-PeCDF	30.94	3.276e3	2.186e3	1.072	1.50	1.55	17.9	YES	NO	db	dd	0.477
3	Total-pentafurans	30.42	6.224e2	4.718e2	0.984	1.32	1.55	4.1	YES	NO	bb	bb	0.102
4	Total-pentafurans	29.97	1.189e3	6.996e2	0.984	1.70	1.55	6.9	YES	NO	db	dd	0.176
5	Total-pentafurans	29.80	4.689e3	2.747e3	0.984	1.71	1.55	23.9	YES	NO	dd	dd	0.694
6	12378-PeCDF	29.60	3.874e3	2.728e3	0.963	1.42	1.55	24.2	YES	NO	dd	dd	0.618
7	Total-pentafurans	28.53	7.661e3	5.383e3	0.984	1.42	1.55	48.4	YES	NO	db	dd	1.217
8	Total-pentafurans	28.48	2.672e3	1.851e3	0.984	1.44	1.55	25.3	YES	NO	dd	dd	0.422

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk**HF**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.11	2.183e4	1.643e4	1.155	1.33	1.24	388.2	YES	NO	bb	bb	4.260
2	123468-HxCDF	32.90	6.377e3	4.636e3	1.332	1.38	1.24	124.0	YES	NO	bb	bb	1.097
3	123789-HxCDF	36.60	1.380e3	1.222e3	1.066	1.13	1.24	21.3	YES	NO	MM	bb	0.354
4	234678-HxCDF	35.60	4.671e3	3.678e3	1.138	1.27	1.24	65.2	YES	NO	bb	bb	0.943
5	123678-HxCDF	34.72	2.485e3	2.016e3	1.100	1.23	1.24	44.5	YES	NO	db	db	0.461
6	123478-HxCDF	34.58	6.642e3	5.519e3	1.142	1.20	1.24	119.6	YES	NO	dd	bd	1.413
7	Total-hexafurans	34.41	9.758e2	8.145e2	1.155	1.20	1.24	16.5	YES	NO	bd	bb	0.199
8	Total-hexafurans	33.95	2.595e4	2.106e4	1.155	1.23	1.24	467.0	YES	NO	bb	bb	5.233

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.67	2.424e3	2.462e3	1.213	0.98	1.05	32.8	YES	NO	bb	bb	0.754
2	Total-heptafurans	39.12	8.014e4	7.473e4	1.211	1.07	1.05	1268.3	YES	NO	bb	bb	21.169
3	Total-heptafurans	38.87	7.764e2	7.350e2	1.211	1.06	1.05	11.3	YES	NO	bb	bd	0.207
4	1234678-HpCDF	38.47	4.065e4	4.146e4	1.210	0.98	1.05	669.0	YES	NO	bb	bd	10.072

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.46	1.420e3	1.861e3	1.034	0.76	0.77	13.1	YES	NO	dd	bd	0.269
2	Total-tetrafurans	23.10	1.554e3	2.140e3	1.034	0.73	0.77	14.2	YES	NO	dd	dd	0.303
3	Total-tetrafurans	22.98	4.812e2	7.021e2	1.034	0.69	0.77	7.8	YES	NO	dd	dd	0.097
4	Total-tetrafurans	22.79	3.108e3	3.692e3	1.034	0.84	0.77	27.8	YES	NO	bd	bd	0.558
5	1368-TCDF	21.96	5.531e2	6.556e2	1.201	0.84	0.77	7.0	YES	NO	bb	bd	0.085
6	Total-tetrafurans	24.36	2.402e3	2.859e3	1.034	0.84	0.77	20.6	YES	NO	dd	dd	0.432
7	Total-tetrafurans	24.19	4.553e3	5.280e3	1.034	0.86	0.77	39.5	YES	NO	dd	dd	0.807
8	Total-tetrafurans	23.85	2.045e3	2.607e3	1.034	0.78	0.77	18.6	YES	NO	dd	db	0.382
9	Total-tetrafurans	23.71	2.265e3	2.740e3	1.034	0.83	0.77	21.0	YES	NO	dd	dd	0.411
10	Total-Furans	27.53	8.859e2	1.209e3	1.119	0.73	0.77	9.0	YES	NO	bb	bb	0.159
11	Total-tetrafurans	26.59	4.628e2	5.787e2	1.034	0.80	0.77	5.2	YES	NO	db	bb	0.085
12	Total-tetrafurans	25.68	2.170e3	2.555e3	1.034	0.85	0.77	16.4	YES	NO	dd	dd	0.388
13	Total-pentafurans	27.87	1.177e3	7.694e2	0.984	1.53	1.55	7.3	YES	NO	bb	bb	0.182
14	23478-PeCDF	30.94	3.276e3	2.186e3	1.072	1.50	1.55	17.9	YES	NO	db	dd	0.477
15	Total-pentafurans	30.42	6.224e2	4.718e2	0.984	1.32	1.55	4.1	YES	NO	bb	bb	0.102
16	Total-pentafurans	29.97	1.189e3	6.996e2	0.984	1.70	1.55	6.9	YES	NO	db	dd	0.176
17	Total-pentafurans	29.80	4.689e3	2.747e3	0.984	1.71	1.55	23.9	YES	NO	dd	dd	0.694
18	12378-PeCDF	29.60	3.874e3	2.728e3	0.963	1.42	1.55	24.2	YES	NO	dd	dd	0.618
19	Total-pentafurans	28.53	7.661e3	5.383e3	0.984	1.42	1.55	48.4	YES	NO	db	dd	1.217
20	Total-pentafurans	28.48	2.672e3	1.851e3	0.984	1.44	1.55	25.3	YES	NO	dd	dd	0.422
21	Total-hexafurans	33.11	2.183e4	1.643e4	1.155	1.33	1.24	388.2	YES	NO	bb	bb	4.260
22	123468-HxCDF	32.90	6.377e3	4.636e3	1.332	1.38	1.24	124.0	YES	NO	bb	bb	1.097
23	123789-HxCDF	36.60	1.380e3	1.222e3	1.066	1.13	1.24	21.3	YES	NO	MM	bb	0.354
24	234678-HxCDF	35.60	4.671e3	3.678e3	1.138	1.27	1.24	65.2	YES	NO	bb	bb	0.943
25	123678-HxCDF	34.72	2.485e3	2.016e3	1.100	1.23	1.24	44.5	YES	NO	db	db	0.461
26	123478-HxCDF	34.58	6.642e3	5.519e3	1.142	1.20	1.24	119.6	YES	NO	dd	bd	1.413
27	Total-hexafurans	34.41	9.758e2	8.145e2	1.155	1.20	1.24	16.5	YES	NO	bd	bb	0.199
28	Total-hexafurans	33.95	2.595e4	2.106e4	1.155	1.23	1.24	467.0	YES	NO	bb	bb	5.233
29	1234789-HpCDF	40.67	2.424e3	2.462e3	1.213	0.98	1.05	32.8	YES	NO	bb	bb	0.754
30	Total-heptafurans	39.12	8.014e4	7.473e4	1.211	1.07	1.05	1268.3	YES	NO	bb	bb	21.169
31	Total-heptafurans	38.87	7.764e2	7.350e2	1.211	1.06	1.05	11.3	YES	NO	bb	bd	0.207
32	1234678-HpCDF	38.47	4.065e4	4.146e4	1.210	0.98	1.05	669.0	YES	NO	bb	bd	10.072
33	OCDF	44.81	7.333e4	7.923e4	1.391	0.93	0.89	1012.3	YES	NO	bd	bd	22.707
34	13468-PECDF	26.88	1.744e4	1.192e4	1.142	1.46	1.55	304.5	YES	NO	db	db	2.317
35	Total-tetrafurans	24.55	3.302e3	3.922e3	1.034	0.84	0.77	34.8	YES	NO	MM	MM	0.593

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-tetradoxins	24.70	1.291e3	1.841e3	1.100	0.70	0.77	20.8	YES	NO	bb	bb	0.339
2	Total-tetradoxins	24.43	5.559e2	6.529e2	1.100	0.85	0.77	5.7	YES	NO	db	bb	0.131
3	Total-tetradoxins	23.50	1.007e3	1.273e3	1.100	0.79	0.77	15.3	YES	NO	bb	dd	0.247
4	1368-TCDD	23.23	1.347e3	1.924e3	1.148	0.70	0.77	21.7	YES	NO	bb	bb	0.339
5	2378-TCDD	26.08	1.900e3	2.660e3	1.197	0.71	0.77	27.1	YES	NO	bd	bd	0.454
6	Total-tetradoxins	25.28	1.356e3	1.906e3	1.100	0.71	0.77	21.9	YES	NO	bd	bb	0.353

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadoxins	28.98	1.259e3	7.126e2	1.499	1.77	1.55	11.5	YES	NO	bb	bb	0.209
2	12378-PeCDD	31.19	2.834e3	1.954e3	1.129	1.45	1.55	23.4	YES	NO	bb	bb	0.674
3	Total-pentadoxins	30.52	8.317e2	5.716e2	1.499	1.46	1.55	7.4	YES	NO	bb	bb	0.149
4	Total-pentadoxins	29.95	1.442e3	9.086e2	1.499	1.59	1.55	14.2	YES	NO	dd	dd	0.249
5	Total-pentadoxins	29.82	1.996e3	1.259e3	1.499	1.59	1.55	20.1	YES	NO	bd	bd	0.345
6	Total-pentadoxins	29.60	1.976e3	1.217e3	1.499	1.62	1.55	20.7	YES	NO	bb	bb	0.338
7	12479-PECDD	28.50	4.510e3	3.168e3	2.043	1.42	1.55	31.5	YES	NO	MM	MM	0.597

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	33.68	1.929e4	1.578e4	1.104	1.22	1.24	287.5	YES	NO	bb	bd	4.278
2	123789-HxCDD	36.22	5.185e3	4.079e3	0.869	1.27	1.24	80.2	YES	NO	bb	bb	1.364
3	Total-hexadoxins	36.00	1.371e3	1.297e3	0.958	1.06	1.24	17.9	YES	NO	db	db	0.356
4	123678-HxCDD	35.83	7.556e3	6.118e3	0.944	1.23	1.24	113.0	YES	NO	dd	dd	1.765
5	123478-HxCDD	35.72	2.777e3	2.134e3	0.917	1.30	1.24	42.2	YES	NO	bd	bd	0.721
6	Total-hexadoxins	34.93	2.685e3	2.034e3	0.958	1.32	1.24	40.6	YES	NO	db	db	0.630
7	Total-hexadoxins	34.83	2.226e4	1.902e4	0.958	1.17	1.24	228.8	YES	NO	bd	bd	5.509

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.94	1.668e5	1.646e5	1.237	1.01	1.05	1164.3	YES	NO	bb	bd	51.304
2	1234679-HPCDD	38.92	2.467e5	2.384e5	1.554	1.03	1.05	1832.4	YES	NO	bb	bb	59.762

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	24.70	1.291e3	1.841e3	1.100	0.70	0.77	20.8	YES	NO	bb	bb	0.339
2	Total-tetradoxins	24.43	5.559e2	6.529e2	1.100	0.85	0.77	5.7	YES	NO	db	bb	0.131
3	Total-tetradoxins	23.50	1.007e3	1.273e3	1.100	0.79	0.77	15.3	YES	NO	bb	dd	0.247
4	1368-TCDD	23.23	1.347e3	1.924e3	1.148	0.70	0.77	21.7	YES	NO	bb	bb	0.339
5	2378-TCDD	26.08	1.900e3	2.660e3	1.197	0.71	0.77	27.1	YES	NO	bd	bd	0.454
6	Total-tetradoxins	25.28	1.356e3	1.906e3	1.100	0.71	0.77	21.9	YES	NO	bd	bb	0.353
7	Total-pentadoxins	28.98	1.259e3	7.126e2	1.499	1.77	1.55	11.5	YES	NO	bb	bb	0.209
8	12378-PeCDD	31.19	2.834e3	1.954e3	1.129	1.45	1.55	23.4	YES	NO	bb	bb	0.674
9	Total-pentadoxins	30.52	8.317e2	5.716e2	1.499	1.46	1.55	7.4	YES	NO	bb	bb	0.149
10	Total-pentadoxins	29.95	1.442e3	9.086e2	1.499	1.59	1.55	14.2	YES	NO	dd	dd	0.249
11	Total-pentadoxins	29.82	1.996e3	1.259e3	1.499	1.59	1.55	20.1	YES	NO	bd	bd	0.345
12	Total-pentadoxins	29.60	1.976e3	1.217e3	1.499	1.62	1.55	20.7	YES	NO	bb	bb	0.338
13	124679-HxCDD	33.68	1.929e4	1.578e4	1.104	1.22	1.24	287.5	YES	NO	bb	bd	4.278
14	123789-HxCDD	36.22	5.185e3	4.079e3	0.869	1.27	1.24	80.2	YES	NO	bb	bb	1.364
15	Total-hexadoxins	36.00	1.371e3	1.297e3	0.958	1.06	1.24	17.9	YES	NO	db	db	0.356
16	123678-HxCDD	35.83	7.556e3	6.118e3	0.944	1.23	1.24	113.0	YES	NO	dd	dd	1.765
17	123478-HxCDD	35.72	2.777e3	2.134e3	0.917	1.30	1.24	42.2	YES	NO	bd	bd	0.721
18	Total-hexadoxins	34.93	2.685e3	2.034e3	0.958	1.32	1.24	40.6	YES	NO	db	db	0.630
19	Total-hexadoxins	34.83	2.226e4	1.902e4	0.958	1.17	1.24	228.8	YES	NO	bd	bd	5.509
20	1234678-HpCDD	39.94	1.668e5	1.646e5	1.237	1.01	1.05	1164.3	YES	NO	bb	bd	51.304
21	1234679-HPCDD	38.92	2.467e5	2.384e5	1.554	1.03	1.05	1832.4	YES	NO	bb	bb	59.762
22	OCDD	44.58	1.091e6	1.284e6	1.212	0.85	0.89	6479.8	YES	NO	bb	bd	405.524
23	12479-PECDD	28.50	4.510e3	3.168e3	2.043	1.42	1.55	31.5	YES	NO	MM	MM	0.597

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.46	1.420e3	1.861e3	1.034	0.76	0.77	13.1	YES	NO	dd	bd	0.269
2	Total-tetrafurans	23.10	1.554e3	2.140e3	1.034	0.73	0.77	14.2	YES	NO	dd	dd	0.303
3	Total-tetrafurans	22.98	4.812e2	7.021e2	1.034	0.69	0.77	7.8	YES	NO	dd	dd	0.097
4	Total-tetrafurans	22.79	3.108e3	3.692e3	1.034	0.84	0.77	27.8	YES	NO	bd	bd	0.558
5	1368-TCDF	21.96	5.531e2	6.556e2	1.201	0.84	0.77	7.0	YES	NO	bb	bd	0.085
6	Total-tetrafurans	24.36	2.402e3	2.859e3	1.034	0.84	0.77	20.6	YES	NO	dd	dd	0.432
7	Total-tetrafurans	24.19	4.553e3	5.280e3	1.034	0.86	0.77	39.5	YES	NO	dd	dd	0.807
8	Total-tetrafurans	23.85	2.045e3	2.607e3	1.034	0.78	0.77	18.6	YES	NO	dd	db	0.382
9	Total-tetrafurans	23.71	2.265e3	2.740e3	1.034	0.83	0.77	21.0	YES	NO	dd	dd	0.411
10	Total-Furans	27.53	8.859e2	1.209e3	1.119	0.73	0.77	9.0	YES	NO	bb	bb	0.159
11	Total-tetrafurans	26.59	4.628e2	5.787e2	1.034	0.80	0.77	5.2	YES	NO	db	bb	0.085
12	Total-tetrafurans	25.68	2.170e3	2.555e3	1.034	0.85	0.77	16.4	YES	NO	dd	dd	0.388
13	Total-penta furans	27.87	1.177e3	7.694e2	0.984	1.53	1.55	7.3	YES	NO	bb	bb	0.182
14	23478-PeCDF	30.94	3.276e3	2.186e3	1.072	1.50	1.55	17.9	YES	NO	db	dd	0.477
15	Total-penta furans	30.42	6.224e2	4.718e2	0.984	1.32	1.55	4.1	YES	NO	bb	bb	0.102
16	Total-penta furans	29.97	1.189e3	6.996e2	0.984	1.70	1.55	6.9	YES	NO	db	dd	0.176
17	Total-penta furans	29.80	4.689e3	2.747e3	0.984	1.71	1.55	23.9	YES	NO	dd	dd	0.694
18	12378-PeCDF	29.60	3.874e3	2.728e3	0.963	1.42	1.55	24.2	YES	NO	dd	dd	0.618
19	Total-penta furans	28.53	7.661e3	5.383e3	0.984	1.42	1.55	48.4	YES	NO	db	dd	1.217
20	Total-penta furans	28.48	2.672e3	1.851e3	0.984	1.44	1.55	25.3	YES	NO	dd	dd	0.422
21	Total-hexa furans	33.11	2.183e4	1.643e4	1.155	1.33	1.24	388.2	YES	NO	bb	bb	4.260
22	123468-HxCDF	32.90	6.377e3	4.636e3	1.332	1.38	1.24	124.0	YES	NO	bb	bb	1.097
23	123789-HxCDF	36.60	1.380e3	1.222e3	1.066	1.13	1.24	21.3	YES	NO	MM	bb	0.354
24	234678-HxCDF	35.60	4.671e3	3.678e3	1.138	1.27	1.24	65.2	YES	NO	bb	bb	0.943
25	123678-HxCDF	34.72	2.485e3	2.016e3	1.100	1.23	1.24	44.5	YES	NO	db	db	0.461
26	123478-HxCDF	34.58	6.642e3	5.519e3	1.142	1.20	1.24	119.6	YES	NO	dd	bd	1.413
27	Total-hexa furans	34.41	9.758e2	8.145e2	1.155	1.20	1.24	16.5	YES	NO	bd	bb	0.199
28	Total-hexa furans	33.95	2.595e4	2.106e4	1.155	1.23	1.24	467.0	YES	NO	bb	bb	5.233
29	1234789-HpCDF	40.67	2.424e3	2.462e3	1.213	0.98	1.05	32.8	YES	NO	bb	bb	0.754
30	Total-hepta furans	39.12	8.014e4	7.473e4	1.211	1.07	1.05	1268.3	YES	NO	bb	bb	21.169
31	Total-hepta furans	38.87	7.764e2	7.350e2	1.211	1.06	1.05	11.3	YES	NO	bb	bd	0.207
32	1234678-HpCDF	38.47	4.065e4	4.146e4	1.210	0.98	1.05	669.0	YES	NO	bb	bd	10.072
33	OCDF	44.81	7.333e4	7.923e4	1.391	0.93	0.89	1012.3	YES	NO	bd	bd	22.707
34	13468-PECDF	26.88	1.744e4	1.192e4	1.142	1.46	1.55	304.5	YES	NO	db	db	2.317
35	Total-tetra furans	24.55	3.302e3	3.922e3	1.034	0.84	0.77	34.8	YES	NO	MM	MM	0.593
36	Total-tetra dioxins	24.70	1.291e3	1.841e3	1.100	0.70	0.77	20.8	YES	NO	bb	bb	0.339
37	Total-tetra dioxins	24.43	5.559e2	6.529e2	1.100	0.85	0.77	5.7	YES	NO	db	bb	0.131

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-tetradiioxins	23.50	1.007e3	1.273e3	1.100	0.79	0.77	15.3	YES	NO	bb	dd	0.247
39	1368-TCDD	23.23	1.347e3	1.924e3	1.148	0.70	0.77	21.7	YES	NO	bb	bb	0.339
40	2378-TCDD	26.08	1.900e3	2.660e3	1.197	0.71	0.77	27.1	YES	NO	bd	bd	0.454
41	Total-tetradiioxins	25.28	1.356e3	1.906e3	1.100	0.71	0.77	21.9	YES	NO	bd	bb	0.353
42	Total-pentadiioxins	28.98	1.259e3	7.126e2	1.499	1.77	1.55	11.5	YES	NO	bb	bb	0.209
43	12378-PeCDD	31.19	2.834e3	1.954e3	1.129	1.45	1.55	23.4	YES	NO	bb	bb	0.674
44	Total-pentadiioxins	30.52	8.317e2	5.716e2	1.499	1.46	1.55	7.4	YES	NO	bb	bb	0.149
45	Total-pentadiioxins	29.95	1.442e3	9.086e2	1.499	1.59	1.55	14.2	YES	NO	dd	dd	0.249
46	Total-pentadiioxins	29.82	1.996e3	1.259e3	1.499	1.59	1.55	20.1	YES	NO	bd	bd	0.345
47	Total-pentadiioxins	29.60	1.976e3	1.217e3	1.499	1.62	1.55	20.7	YES	NO	bb	bb	0.338
48	124679-HxCDD	33.68	1.929e4	1.578e4	1.104	1.22	1.24	287.5	YES	NO	bb	bd	4.278
49	123789-HxCDD	36.22	5.185e3	4.079e3	0.869	1.27	1.24	80.2	YES	NO	bb	bb	1.364
50	Total-hexadiioxins	36.00	1.371e3	1.297e3	0.958	1.06	1.24	17.9	YES	NO	db	db	0.356
51	123678-HxCDD	35.83	7.556e3	6.118e3	0.944	1.23	1.24	113.0	YES	NO	dd	dd	1.765
52	123478-HxCDD	35.72	2.777e3	2.134e3	0.917	1.30	1.24	42.2	YES	NO	bd	bd	0.721
53	Total-hexadiioxins	34.93	2.685e3	2.034e3	0.958	1.32	1.24	40.6	YES	NO	db	db	0.630
54	Total-hexadiioxins	34.83	2.226e4	1.902e4	0.958	1.17	1.24	228.8	YES	NO	bd	bd	5.509
55	1234678-HpCDD	39.94	1.668e5	1.646e5	1.237	1.01	1.05	1164.3	YES	NO	bb	bd	51.304
56	1234679-HPCDD	38.92	2.467e5	2.384e5	1.554	1.03	1.05	1832.4	YES	NO	bb	bb	59.762
57	OCDD	44.58	1.091e6	1.284e6	1.212	0.85	0.89	6479.8	YES	NO	bb	bd	405.524
58	12479-PECDD	28.50	4.510e3	3.168e3	2.043	1.42	1.55	31.5	YES	NO	MM	MM	0.597

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	25.83	4.816e4					2.4	NO		db		
2	FUNCTION1 PFK	25.77	5.314e3					0.8	NO		bd		
3	FUNCTION1 PFK	25.08	8.527e3					1.1	NO		bb		
4	FUNCTION1 PFK	25.03	2.999e3					0.6	NO		bb		
5	FUNCTION1 PFK	24.25	2.773e3					0.5	NO		bb		
6	FUNCTION1 PFK	23.92	1.551e4					0.4	NO		bb		
7	FUNCTION1 PFK	23.77	3.059e4					1.3	NO		bb		
8	FUNCTION1 PFK	23.68	1.634e4					1.0	NO		db		
9	FUNCTION1 PFK	23.56	1.671e4					1.1	NO		bd		
10	FUNCTION1 PFK	23.39	9.291e3					1.0	NO		bb		
11	FUNCTION1 PFK	22.99	5.505e5					6.0	YES		db		
12	FUNCTION1 PFK	22.88	4.272e4					2.6	NO		bd		
13	FUNCTION1 PFK	21.92	6.489e5					7.4	YES		bb		
14	FUNCTION1 PFK	21.68	1.626e6					13.5	YES		db		
15	FUNCTION1 PFK	21.23	5.937e4					3.9	YES		dd		
16	FUNCTION1 PFK	21.14	2.780e4					1.5	NO		bd		
17	FUNCTION1 PFK	27.48	9.846e4					4.4	YES		db		
18	FUNCTION1 PFK	27.44	1.728e5					3.8	YES		dd		
19	FUNCTION1 PFK	27.26	2.082e5					8.9	YES		dd		
20	FUNCTION1 PFK	27.20	3.154e5					10.4	YES		bd		
21	FUNCTION1 PFK	26.98	4.916e5					7.8	YES		bb		
22	FUNCTION1 PFK	26.52	4.313e3					0.9	NO		bb		
23	FUNCTION1 PFK	26.42	4.139e4					2.2	NO		bb		
24	FUNCTION1 PFK	26.33	3.923e4					1.8	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.13	1.376e4					1.8	NO		bb		0.000
2	FUNCTION2 PFK	29.20	4.889e5					8.1	YES		db		0.000
3	FUNCTION2 PFK	29.04	6.568e4					6.1	YES		bd		0.000
4	FUNCTION2 PFK	28.87	9.424e5					12.5	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	FUNCTION3 PFK	33.71	2.739e3					1.0	NO		bb		0.000
2	FUNCTION3 PFK	32.68	1.072e4					1.8	NO		bb		0.000
3	FUNCTION3 PFK	37.11	1.373e4					2.2	NO		bb		0.000
4	FUNCTION3 PFK	36.96	5.723e5					13.1	YES		db		0.000
5	FUNCTION3 PFK	36.76	8.870e5					26.7	YES		dd		0.000
6	FUNCTION3 PFK	36.67	9.632e5					30.7	YES		bd		0.000
7	FUNCTION3 PFK	36.22	2.830e6					20.2	YES		bb		0.000
8	FUNCTION3 PFK	35.53	4.797e4					4.3	YES		bb		0.000
9	FUNCTION3 PFK	34.61	2.641e5					5.6	YES		bb		0.000
10	FUNCTION3 PFK	34.41	5.571e4					2.6	NO		bb		0.000
11	FUNCTION3 PFK	33.83	3.251e4					2.6	NO		bb		0.000

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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk**PFK4**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	37.87	1.820e4					1.8	NO		dd		
2	FUNCTION4 PFK	37.80	1.897e4					1.9	NO		dd		
3	FUNCTION4 PFK	37.76	2.764e4					2.4	NO		dd		
4	FUNCTION4 PFK	37.70	8.319e3					1.6	NO		bd		
5	FUNCTION4 PFK	37.61	4.844e3					0.9	NO		db		
6	FUNCTION4 PFK	37.58	3.842e3					0.7	NO		bd		
7	FUNCTION4 PFK	39.19	1.111e4					1.4	NO		bb		
8	FUNCTION4 PFK	39.05	1.696e3					0.4	NO		bb		
9	FUNCTION4 PFK	38.97	6.816e3					0.7	NO		bb		
10	FUNCTION4 PFK	38.90	3.153e3					0.7	NO		bb		
11	FUNCTION4 PFK	38.78	1.062e4					1.2	NO		db		
12	FUNCTION4 PFK	38.73	6.866e3					1.2	NO		bd		
13	FUNCTION4 PFK	38.66	1.577e4					1.3	NO		db		
14	FUNCTION4 PFK	38.57	1.136e4					1.5	NO		dd		
15	FUNCTION4 PFK	38.53	5.487e3					0.9	NO		dd		
16	FUNCTION4 PFK	38.48	8.710e3					1.0	NO		bd		
17	FUNCTION4 PFK	38.41	4.310e3					0.8	NO		db		
18	FUNCTION4 PFK	38.33	1.236e4					1.1	NO		bd		
19	FUNCTION4 PFK	38.22	6.982e2					0.3	NO		bb		
20	FUNCTION4 PFK	38.17	2.306e3					0.6	NO		bb		
21	FUNCTION4 PFK	37.97	7.200e3					0.7	NO		db		
22	FUNCTION4 PFK	37.90	6.426e3					1.2	NO		dd		
23	FUNCTION4 PFK	40.76	8.018e3					1.2	NO		bd		
24	FUNCTION4 PFK	40.54	6.263e2					0.2	NO		bb		
25	FUNCTION4 PFK	40.46	1.519e4					1.6	NO		db		
26	FUNCTION4 PFK	40.38	9.025e3					1.1	NO		dd		
27	FUNCTION4 PFK	40.34	1.907e3					0.6	NO		bd		
28	FUNCTION4 PFK	40.24	3.923e3					0.7	NO		db		
29	FUNCTION4 PFK	40.19	6.345e3					0.8	NO		bd		
30	FUNCTION4 PFK	39.73	1.304e4					1.5	NO		db		
31	FUNCTION4 PFK	39.68	5.761e3					0.9	NO		dd		
32	FUNCTION4 PFK	39.62	2.623e4					3.0	YES		dd		
33	FUNCTION4 PFK	39.60	2.559e4					1.8	NO		bd		
34	FUNCTION4 PFK	39.44	3.913e4					3.0	YES		db		
35	FUNCTION4 PFK	39.40	1.327e4					1.8	NO		dd		
36	FUNCTION4 PFK	39.36	7.007e3					1.2	NO		bd		
37	FUNCTION4 PFK	39.29	7.954e3					0.8	NO		bb		

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION4 PFK	39.23	5.699e3					1.0	NO		bb		
39	FUNCTION4 PFK	42.46	8.354e3					1.0	NO		bb		
40	FUNCTION4 PFK	42.37	3.436e3					0.3	NO		bb		
41	FUNCTION4 PFK	42.26	2.394e3					0.5	NO		bb		
42	FUNCTION4 PFK	42.10	6.733e2					0.3	NO		bb		
43	FUNCTION4 PFK	41.99	6.164e2					0.2	NO		bb		
44	FUNCTION4 PFK	41.89	4.758e3					1.0	NO		bb		
45	FUNCTION4 PFK	41.76	2.327e3					0.5	NO		bb		
46	FUNCTION4 PFK	41.71	1.401e3					0.4	NO		bb		
47	FUNCTION4 PFK	41.50	1.252e4					1.5	NO		bb		
48	FUNCTION4 PFK	41.21	9.387e3					1.2	NO		db		
49	FUNCTION4 PFK	41.16	6.620e3					1.2	NO		bd		
50	FUNCTION4 PFK	41.09	1.258e4					1.6	NO		bb		
51	FUNCTION4 PFK	40.99	7.561e3					1.1	NO		db		
52	FUNCTION4 PFK	40.95	2.156e4					1.3	NO		dd		
53	FUNCTION4 PFK	40.88	5.296e3					0.9	NO		bd		
54	FUNCTION4 PFK	40.77	8.815e3					1.1	NO		db		
55	FUNCTION4 PFK	42.97	9.239e3					1.5	NO		bb		
56	FUNCTION4 PFK	42.92	1.281e4					1.8	NO		db		
57	FUNCTION4 PFK	42.85	7.009e3					1.2	NO		dd		
58	FUNCTION4 PFK	42.79	7.419e3					0.8	NO		dd		
59	FUNCTION4 PFK	42.69	1.566e4					1.2	NO		dd		
60	FUNCTION4 PFK	42.65	7.175e3					1.1	NO		bd		
61	FUNCTION4 PFK	42.56	1.360e4					1.1	NO		db		
62	FUNCTION4 PFK	42.52	6.186e3					1.0	NO		bd		

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...	25.80	1.421e2					4.2	YES		bb		0.000
2	FUNCTION1 HXCD...	25.59	3.592e2					9.0	YES		bb		0.000
3	FUNCTION1 HXCD...	23.44	2.182e2					4.6	YES		bb		0.000
4	FUNCTION1 HXCD...	22.00	1.514e2					4.2	YES		db		0.000
5	FUNCTION1 HXCD...	21.83	1.180e2					2.9	NO		bd		0.000
6	FUNCTION1 HXCD...	21.18	1.151e2					3.2	YES		bb		0.000
7	FUNCTION1 HXCD...	27.17	9.526e1					4.0	YES		bb		0.000
8	FUNCTION1 HXCD...	26.47	2.550e2					6.6	YES		bb		0.000
9	FUNCTION1 HXCD...	26.13	2.849e2					4.7	YES		db		0.000
10	FUNCTION1 HXCD...	26.00	1.338e2					4.8	YES		bd		0.000

ETHERS2

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

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.38	8.279e1					2.7	NO		bb		0.000
2	FUNCTION2 HPCD...	30.71	8.670e1					2.4	NO		bb		0.000
3	FUNCTION2 HPCD...	29.64	9.246e1					2.1	NO		db		0.000
4	FUNCTION2 HPCD...	29.49	1.394e2					3.9	YES		bd		0.000
5	FUNCTION2 HPCD...	28.65	9.591e1					3.3	YES		bb		0.000
6	FUNCTION2 HPCD...	28.04	9.284e1					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	36.32	7.028e1					3.0	YES		db		0.000
2	FUNCTION3 OCDPE	36.21	1.338e2					3.2	YES		bd		0.000
3	FUNCTION3 OCDPE	35.84	9.782e1					2.8	NO		bb		0.000
4	FUNCTION3 OCDPE	35.52	8.000e1					1.9	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.92	7.555e1					3.9	YES		bb		0.000
2	FUNCTION4 NCDPE	38.10	1.185e4					432.8	YES		bb		0.000

ETHERS6

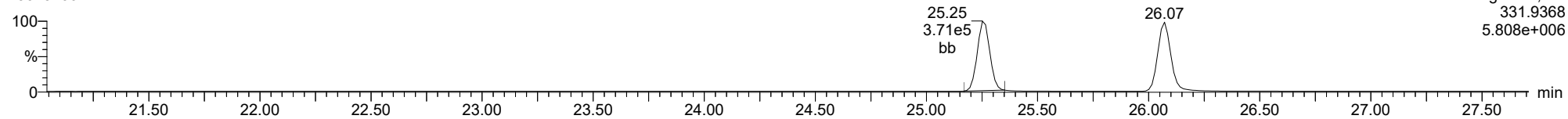
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1													

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

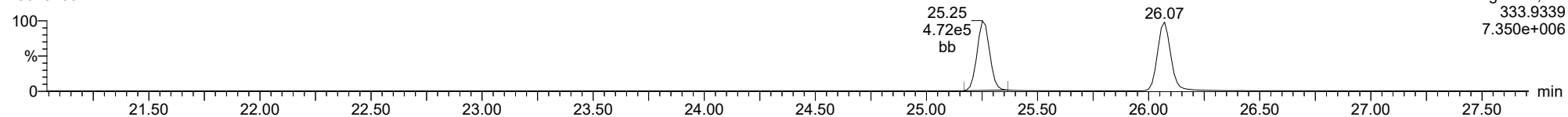
13C-1234-TCDD

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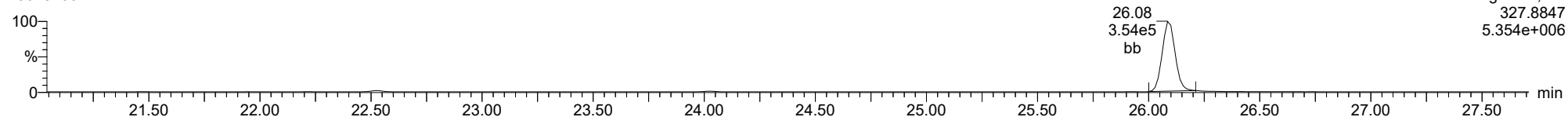
13C-1234-TCDD

23073106



37CL-2378-TCDD

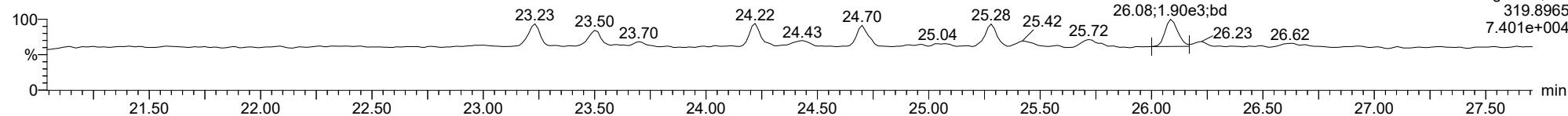
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

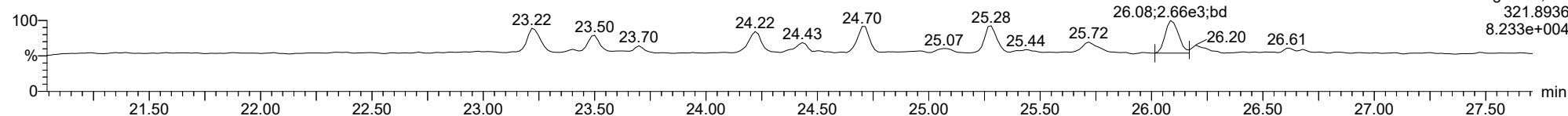
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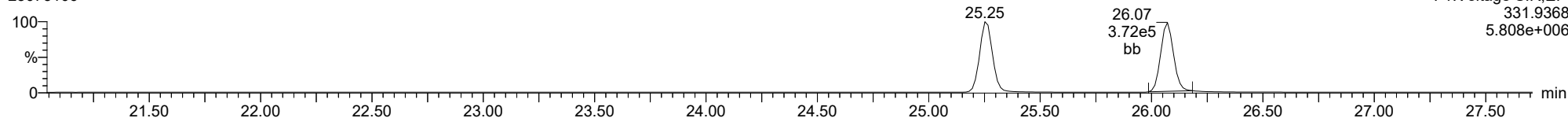
2378-TCDD

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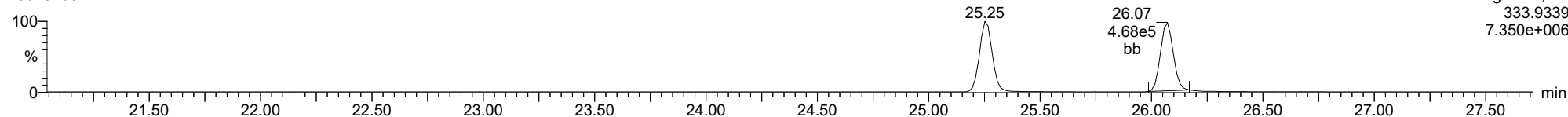
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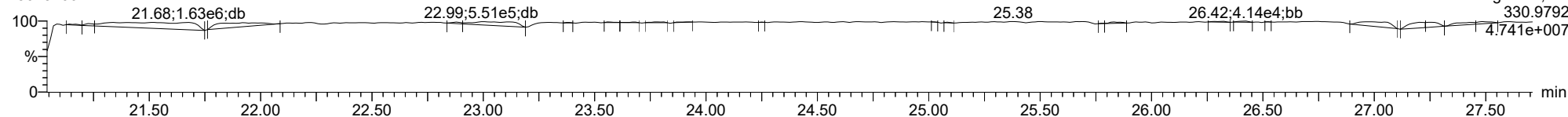
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23073106



FUNCTION1 PFK

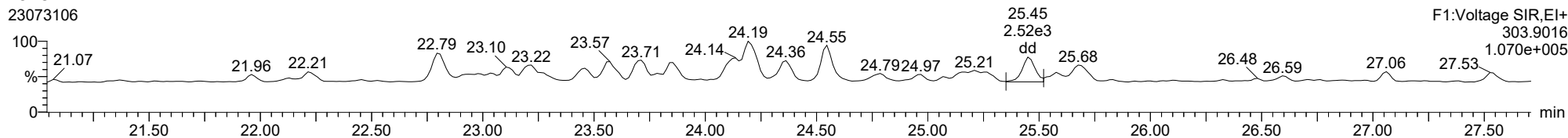
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

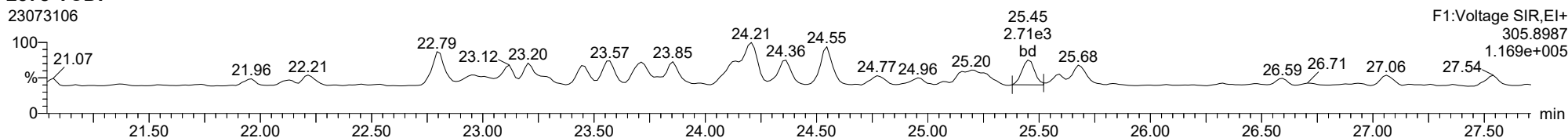
2378-TCDF

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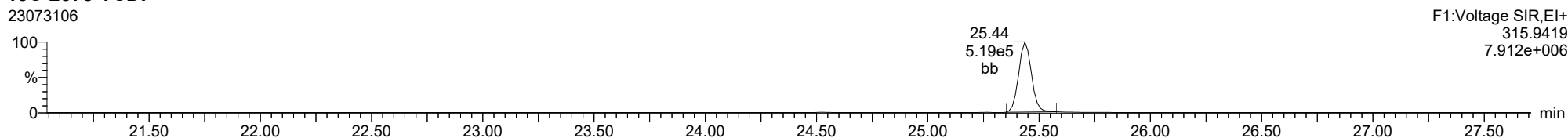
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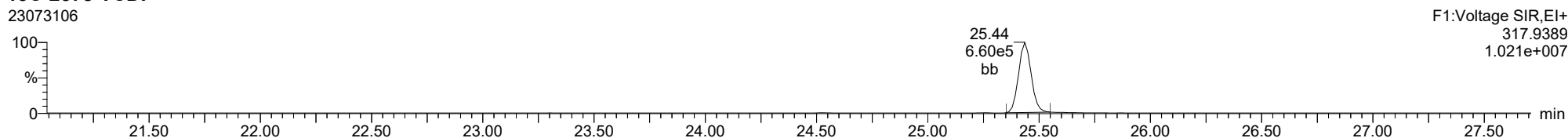
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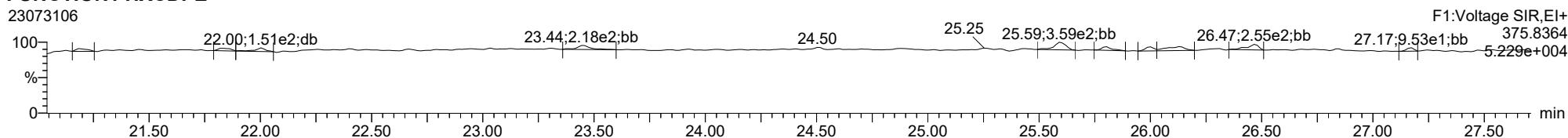
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FUNCTION1 HXCDPE

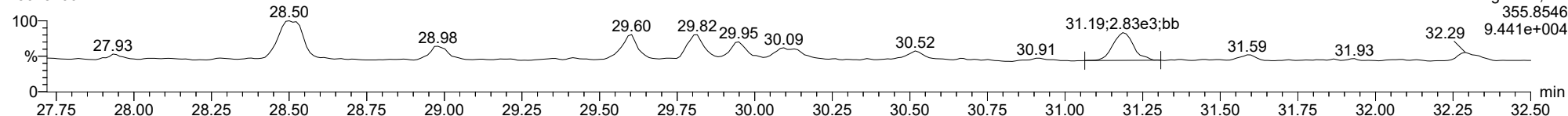
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

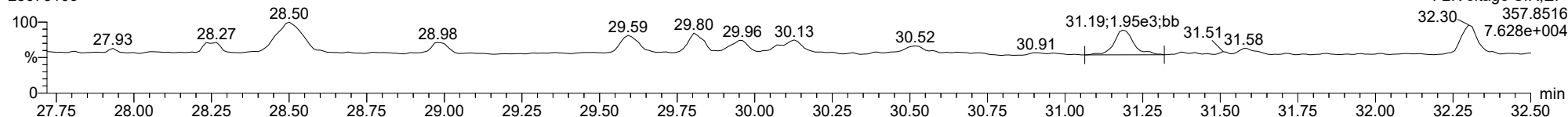
12378-PeCDD

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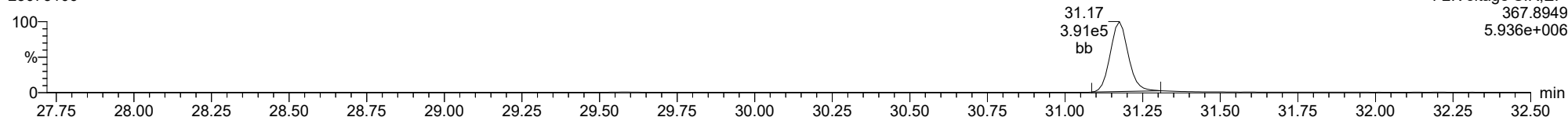
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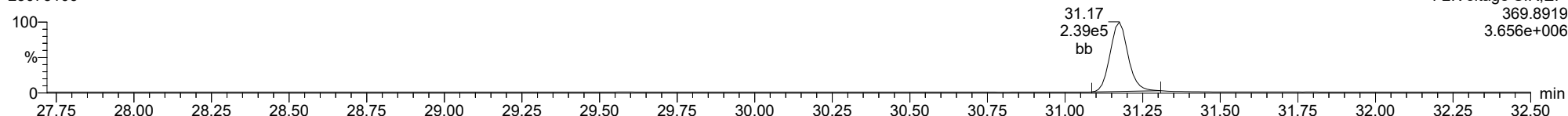
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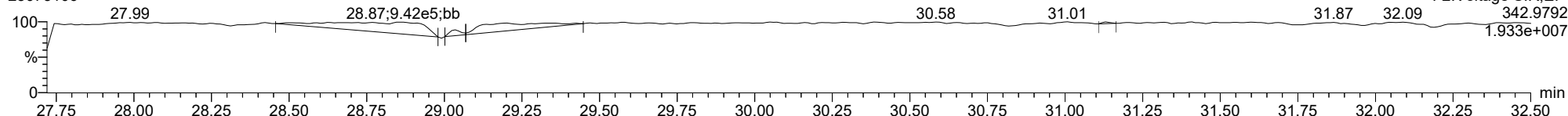
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FUNCTION2 PFK

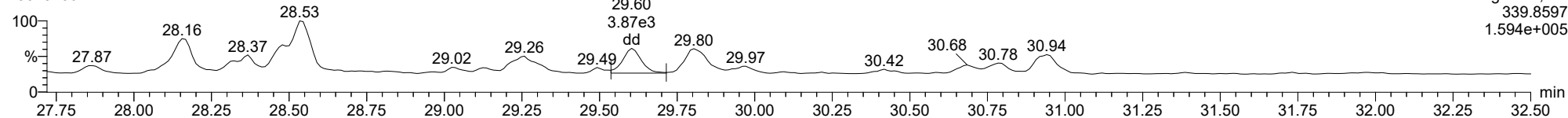
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

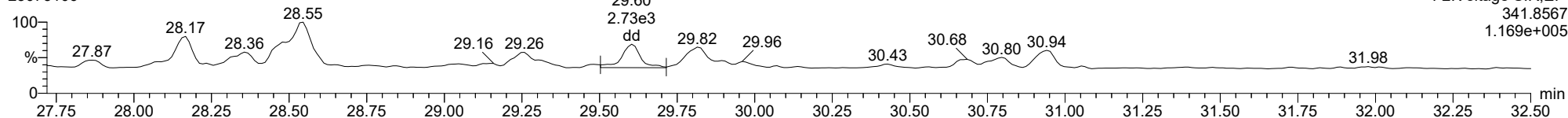
12378-PeCDF

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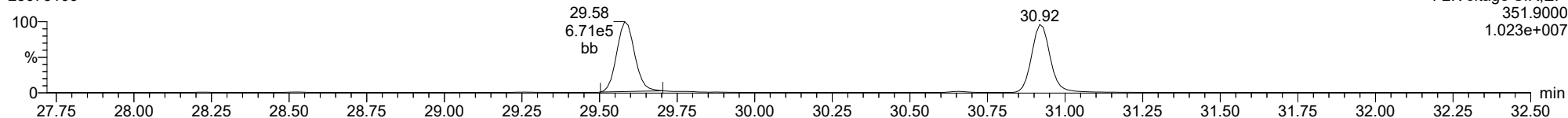
12378-PeCDF

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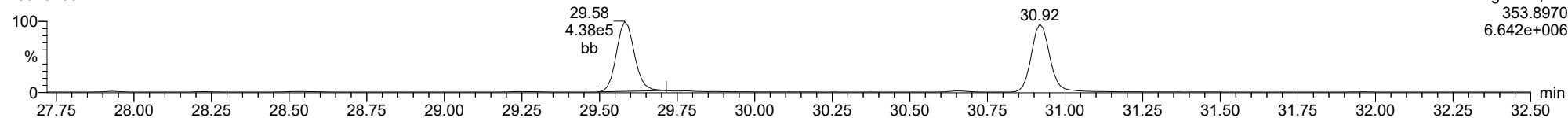
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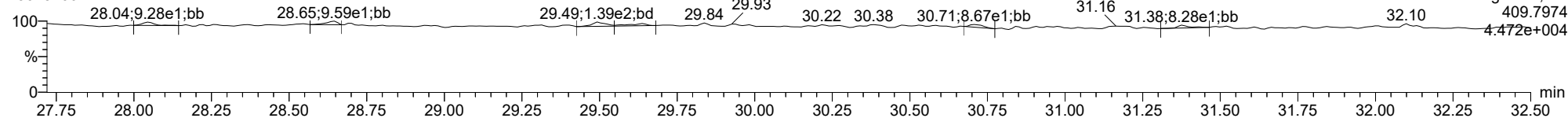
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FUNCTION2 HPCDPE

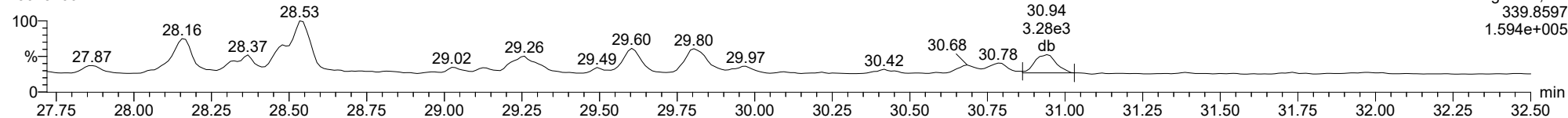
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

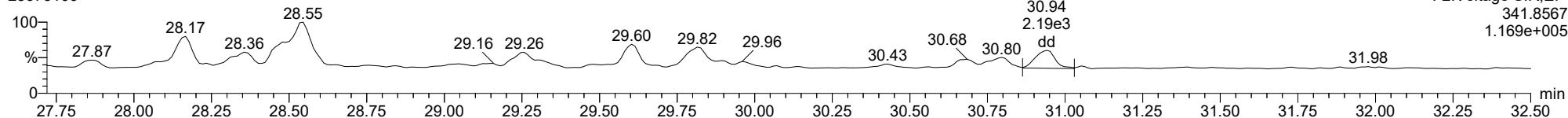
23478-PeCDF

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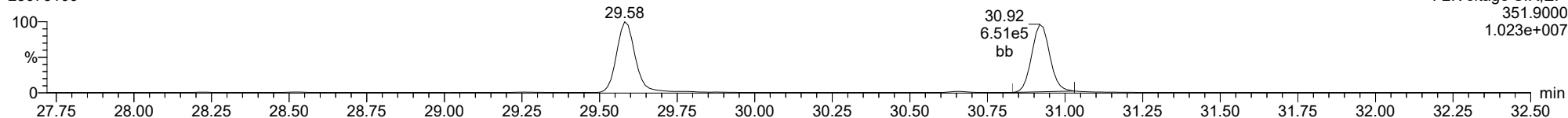
23478-PeCDF

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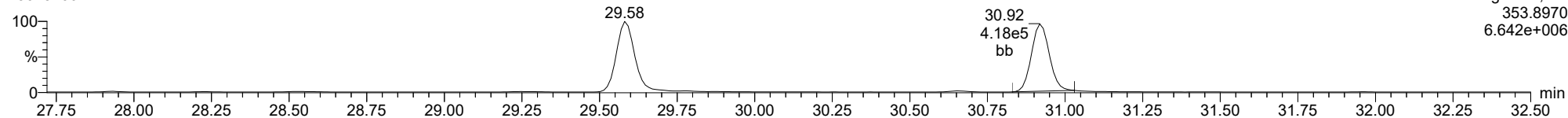
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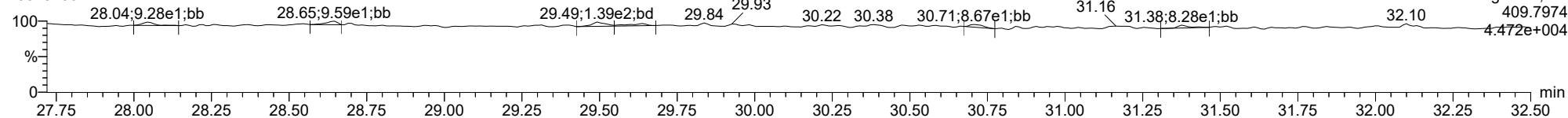
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FUNCTION2 HPCDPE

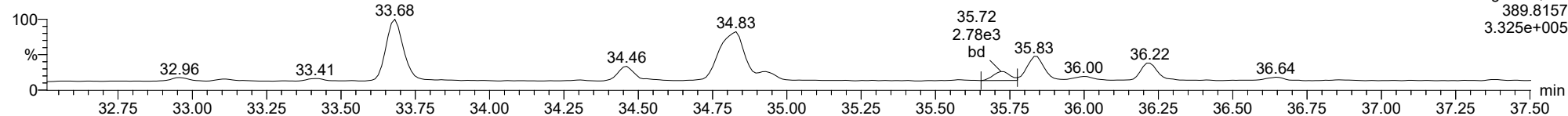
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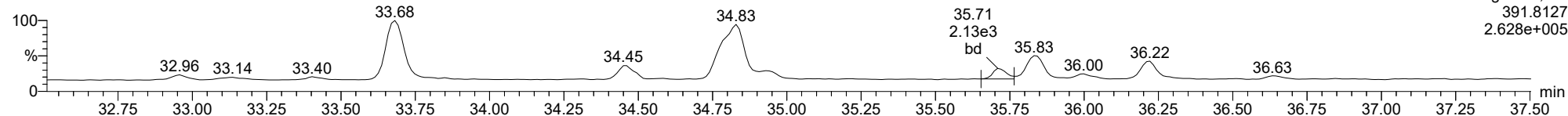
123478-HxCDD

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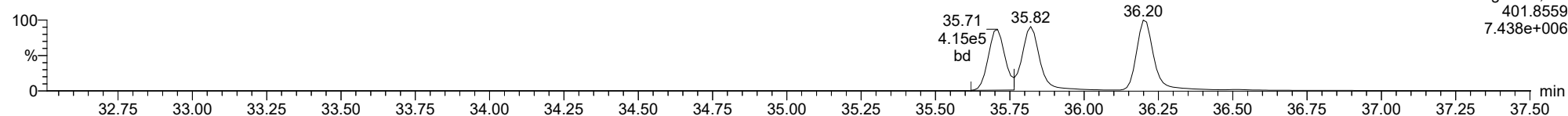
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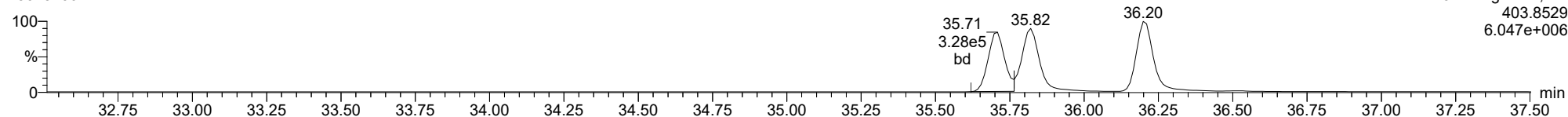
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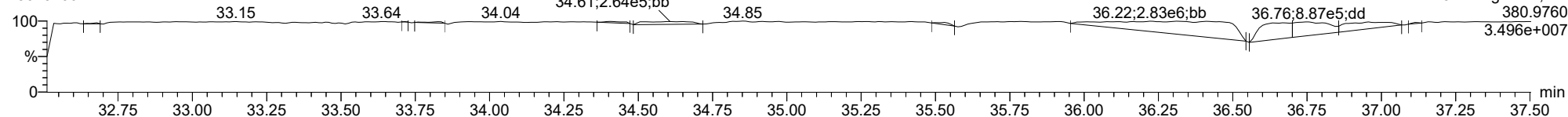
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FUNCTION3 PFK

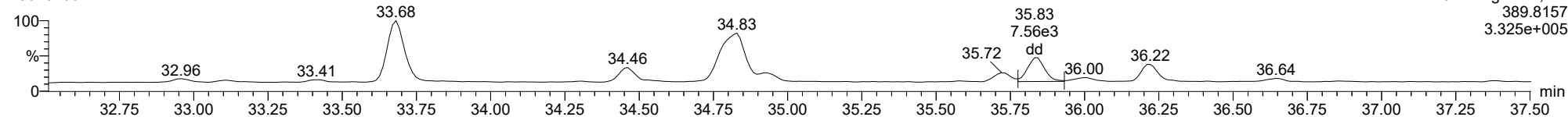
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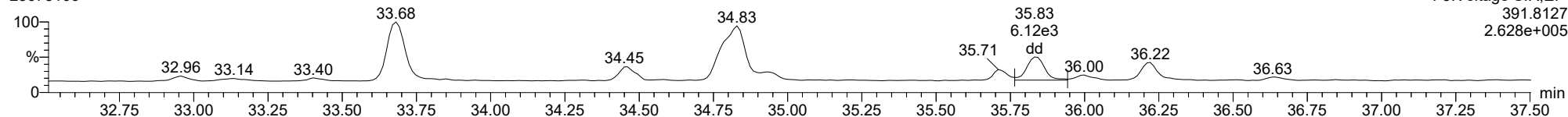
123678-HxCDD

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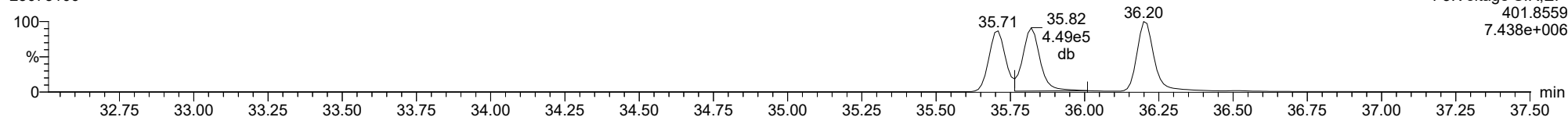
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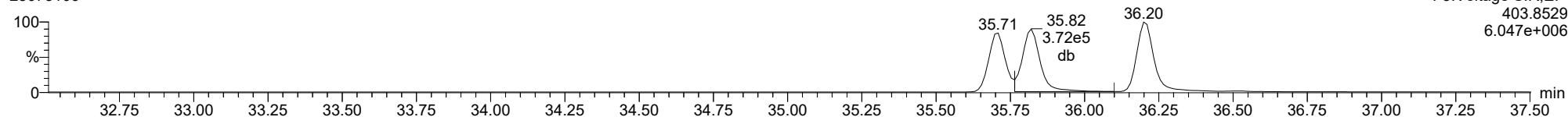
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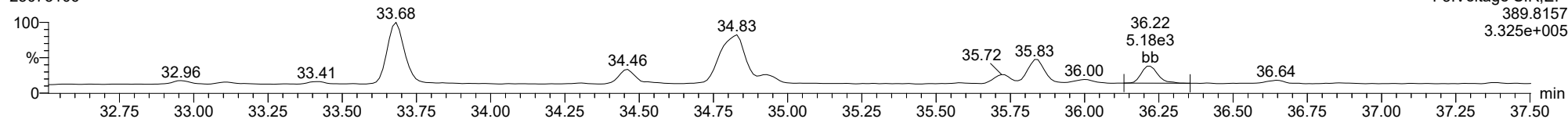
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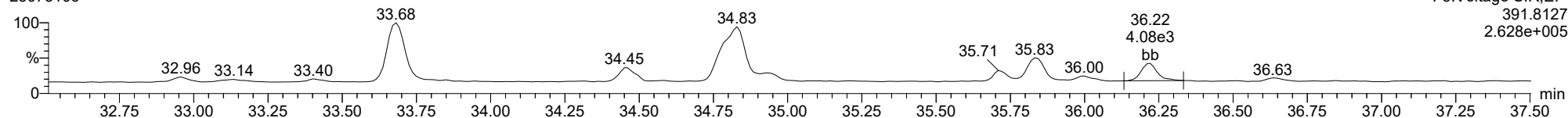
123789-HxCDD

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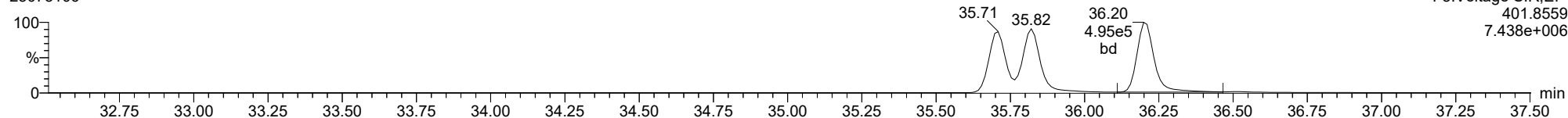
123789-HxCDD

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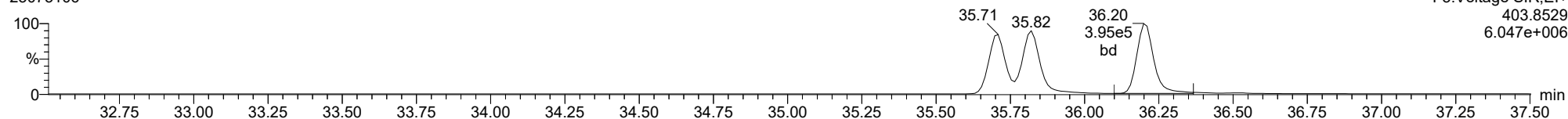
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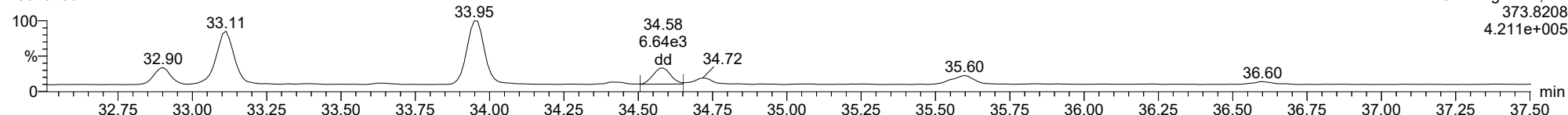
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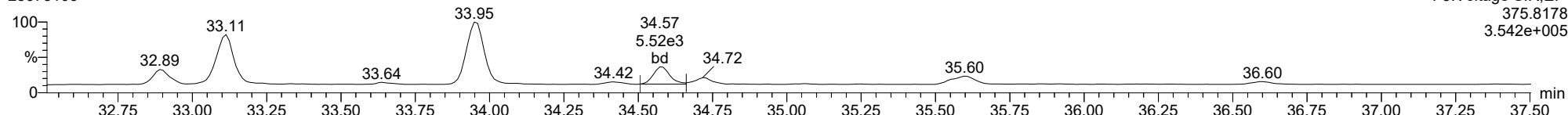
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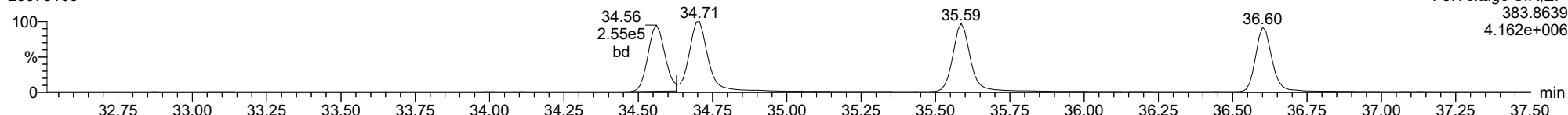
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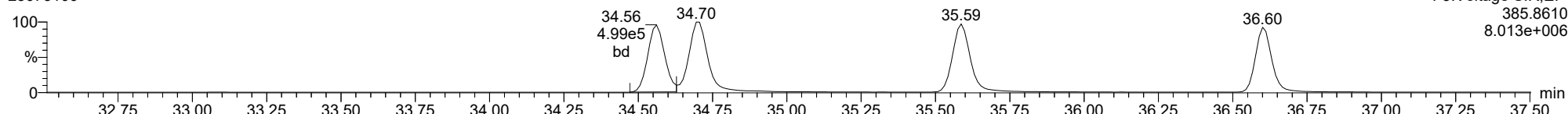
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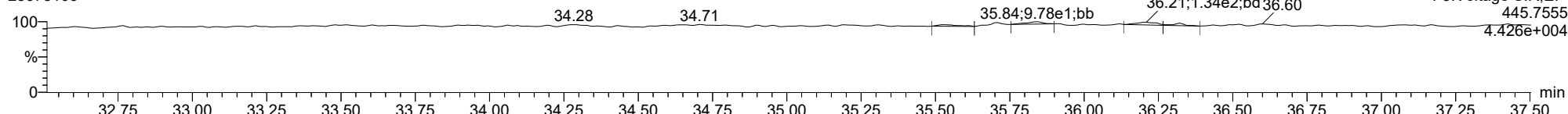
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FUNCTION3 OCDPE

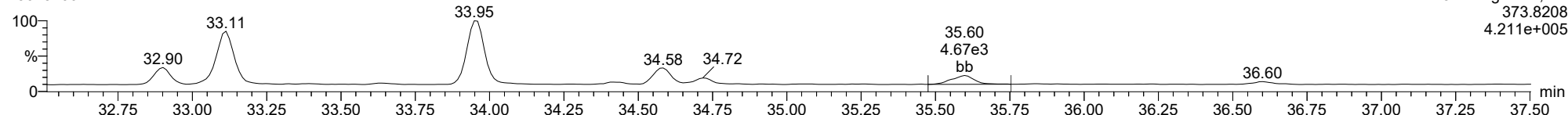
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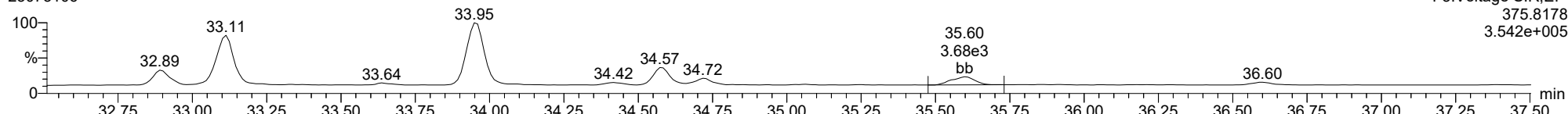
234678-HxCDF

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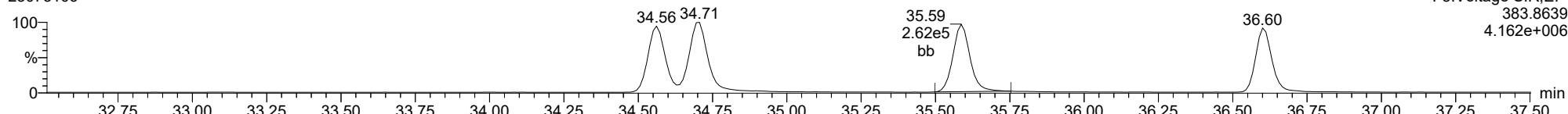
234678-HxCDF

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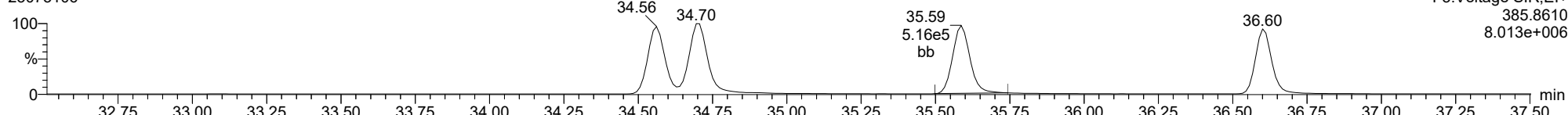
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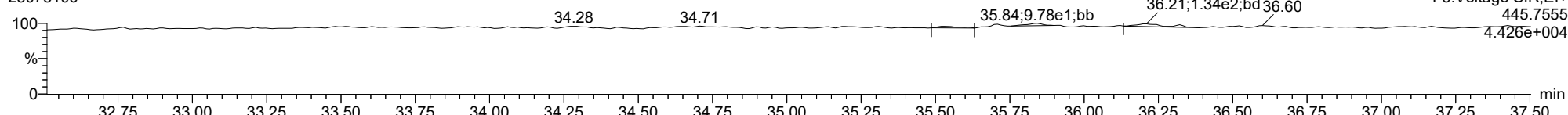
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FUNCTION3 OCDPE

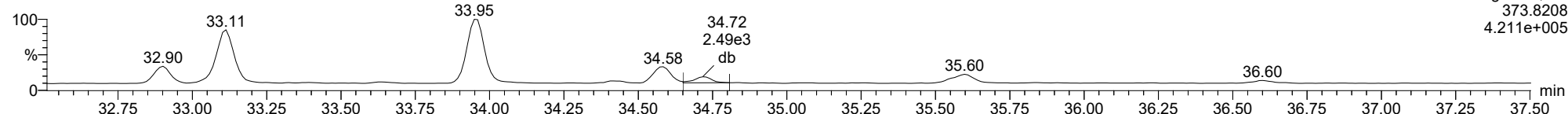
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

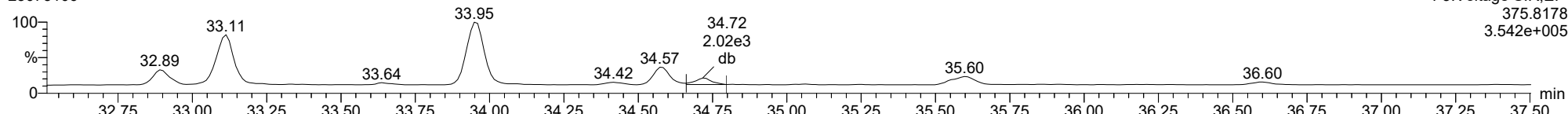
123678-HxCDF

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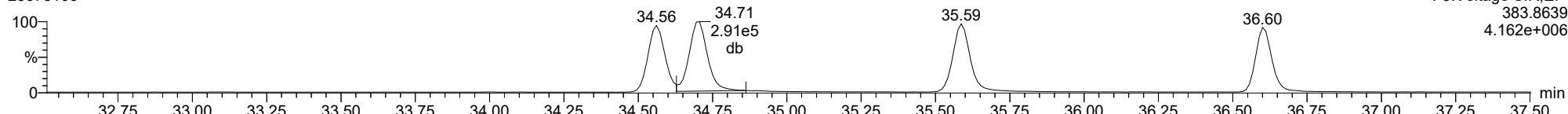
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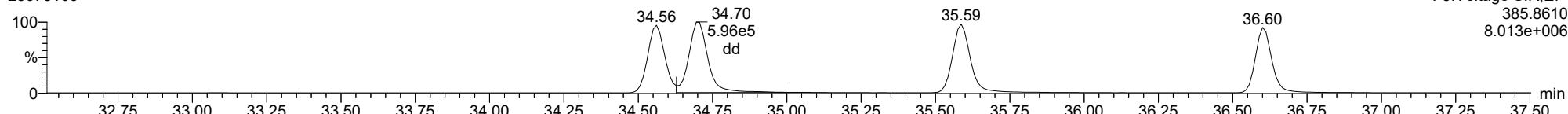
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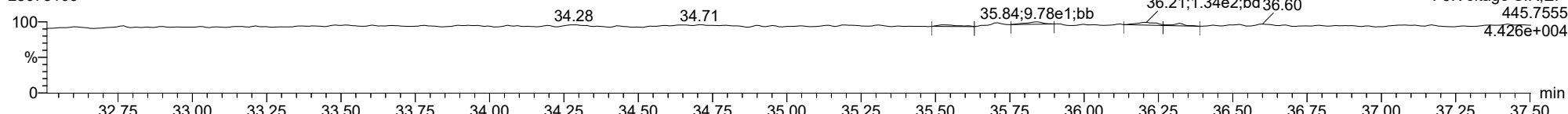
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FUNCTION3 OCDPE

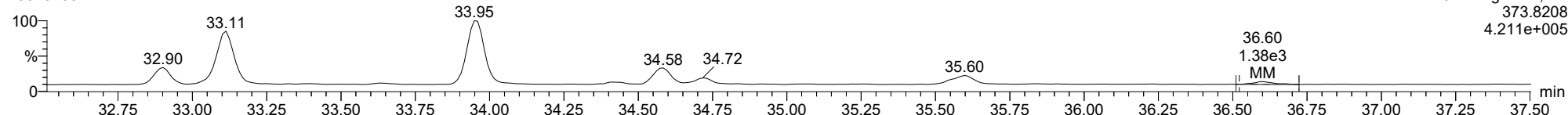
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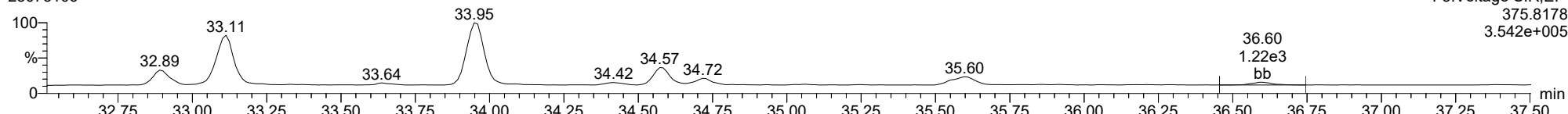
123789-HxCDF

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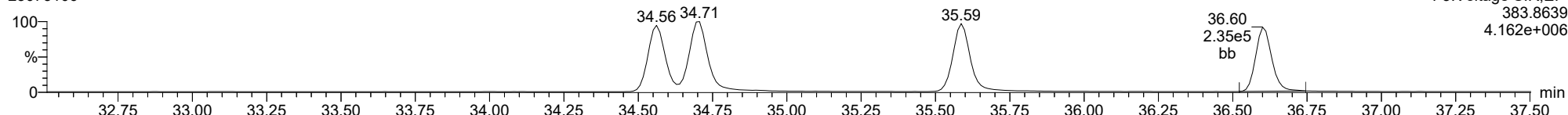
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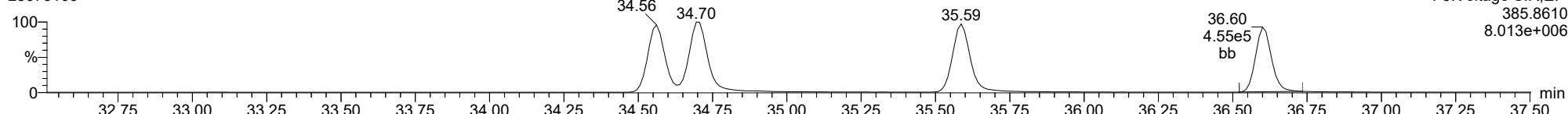
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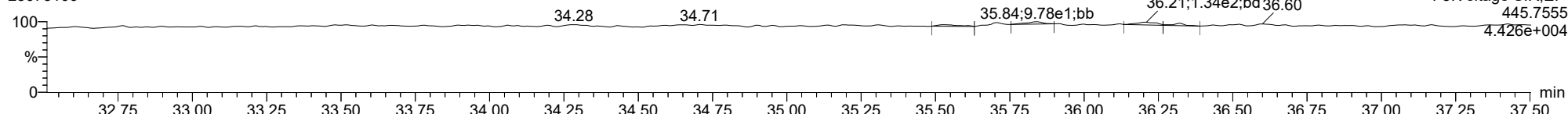
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FUNCTION3 OCDPE

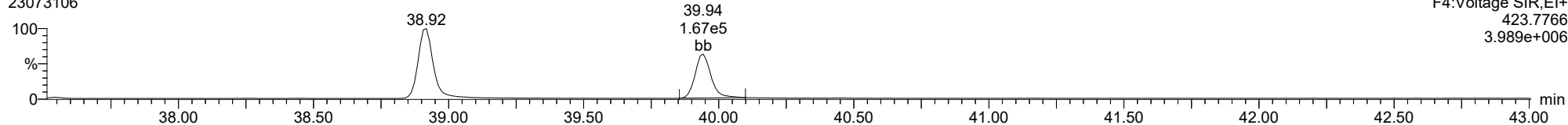
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

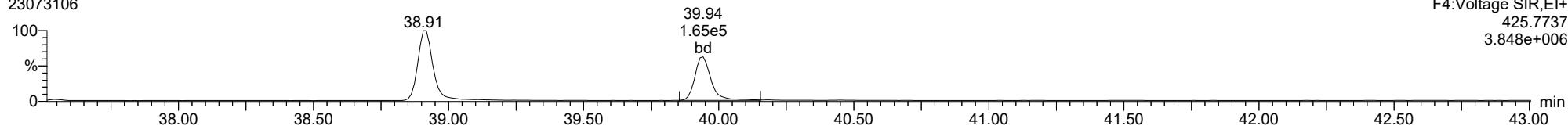
1234678-HpCDD

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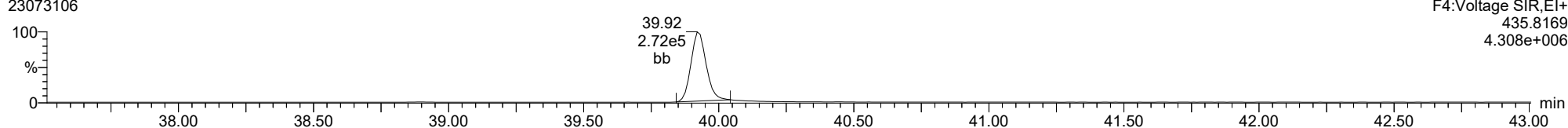
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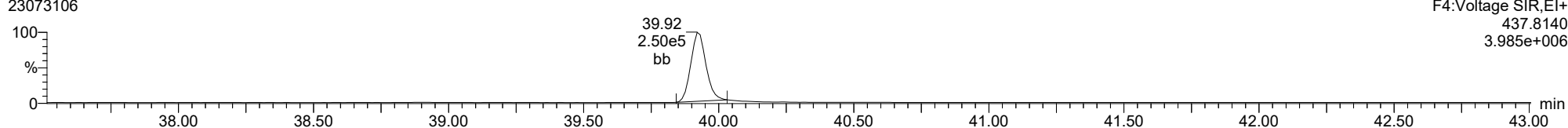
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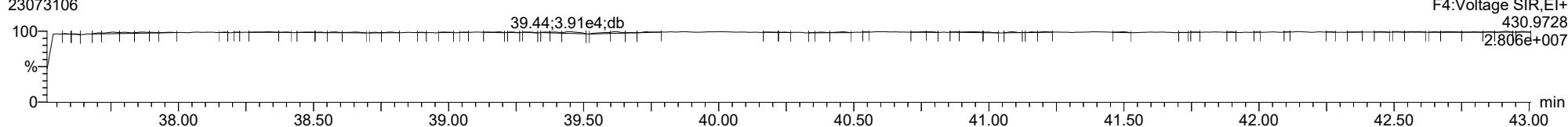
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23073106



FUNCTION4 PFK

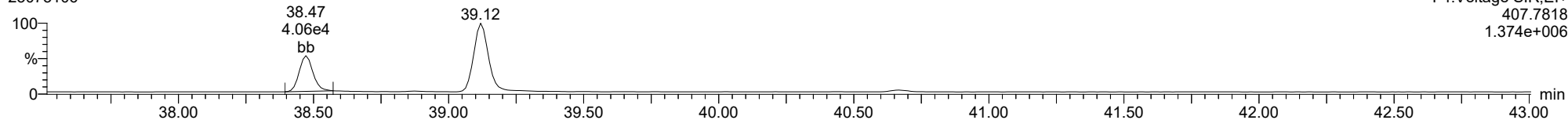
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

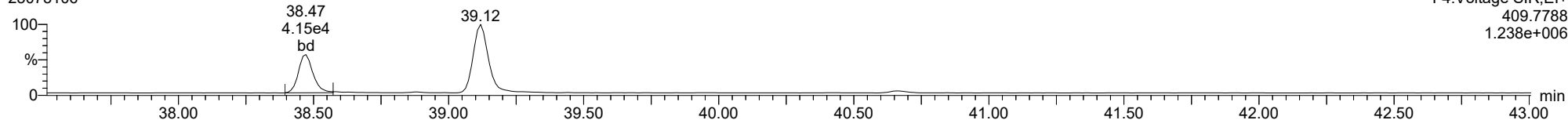
1234678-HpCDF

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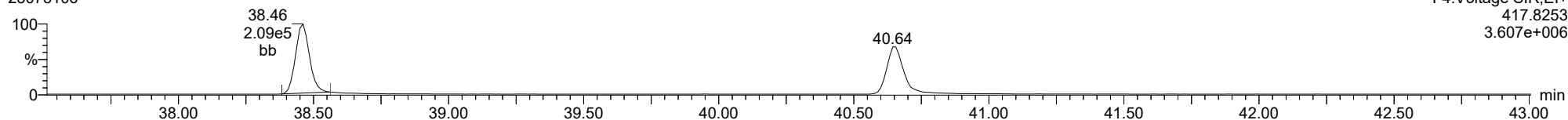
1234678-HpCDF

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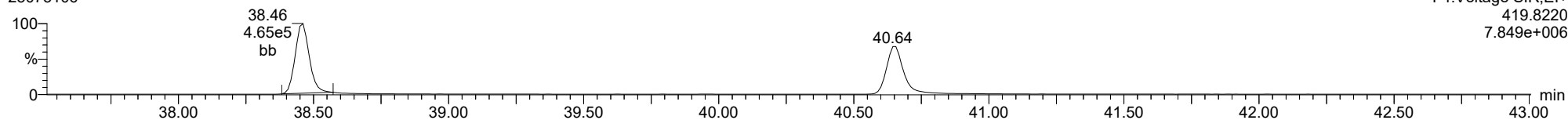
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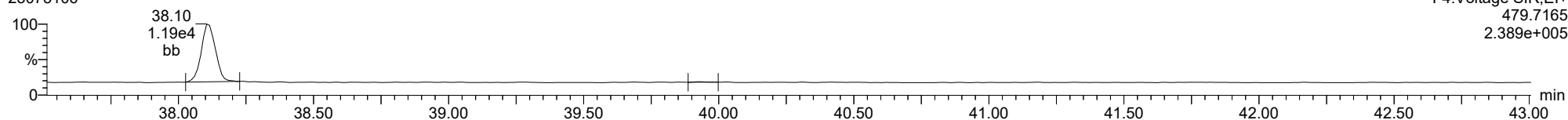
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FUNCTION4 NCDPE

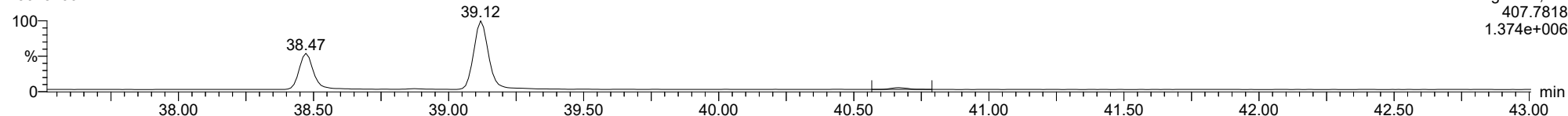
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1234789-HpCDF

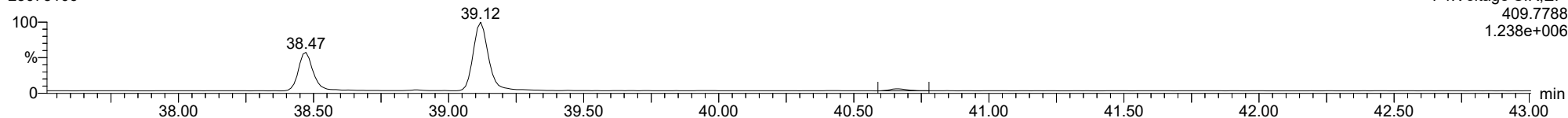
23073106



F4:Voltage SIR,El+
407.7818
1.374e+006

1234789-HpCDF

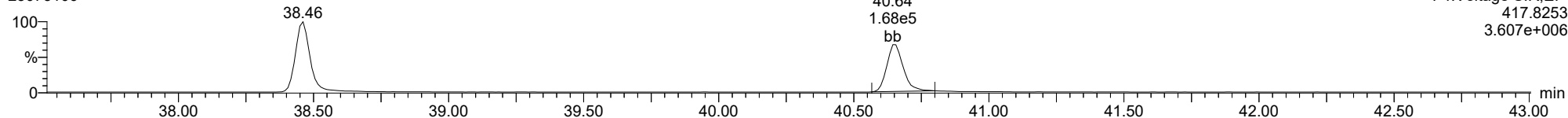
23073106



F4:Voltage SIR,El+
409.7788
1.238e+006

13C-1234789-HpCDF

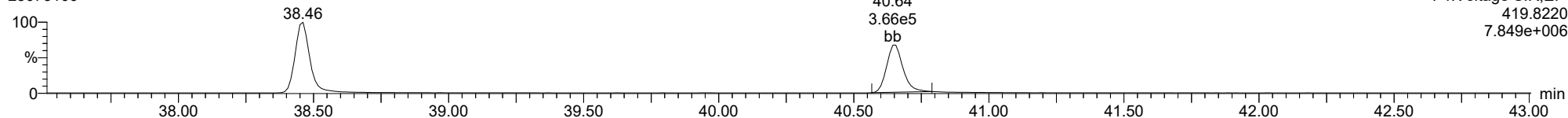
23073106



F4:Voltage SIR,El+
417.8253
3.607e+006

13C-1234789-HpCDF

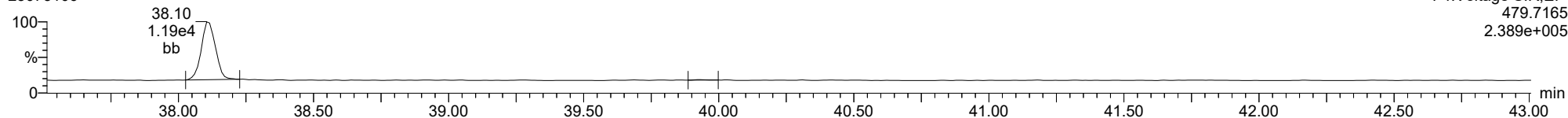
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F4:Voltage SIR,El+
419.8220
7.849e+006

FUNCTION4 NCDPE

23073106

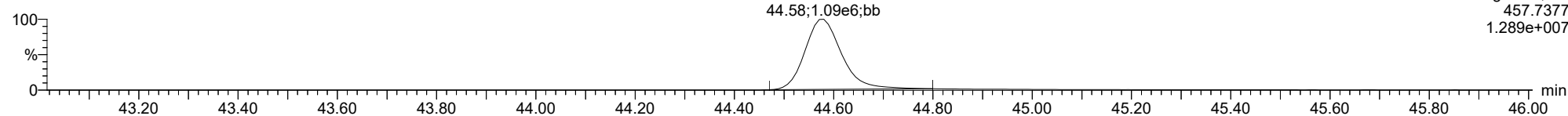


F4:Voltage SIR,El+
479.7165
2.389e+005

ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

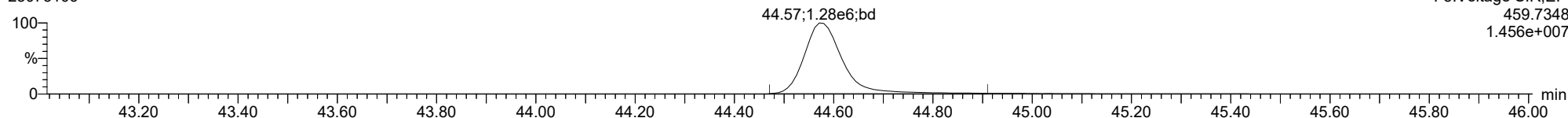
OCDD

23073106



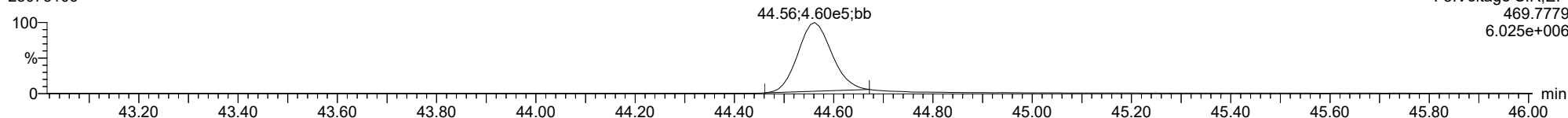
OCDD

23073106



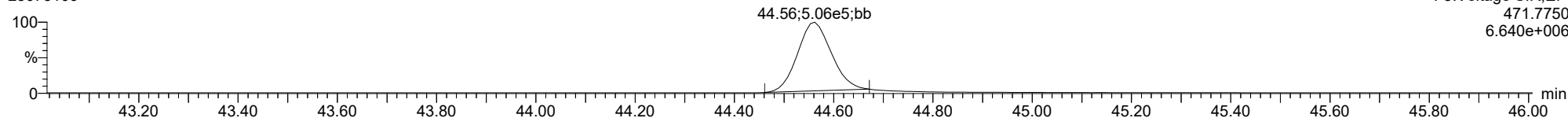
13C-OCDD

23073106



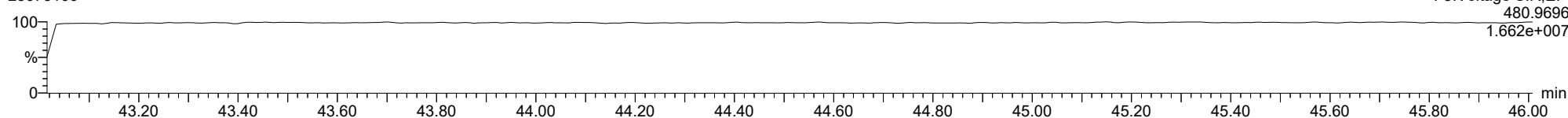
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23073106

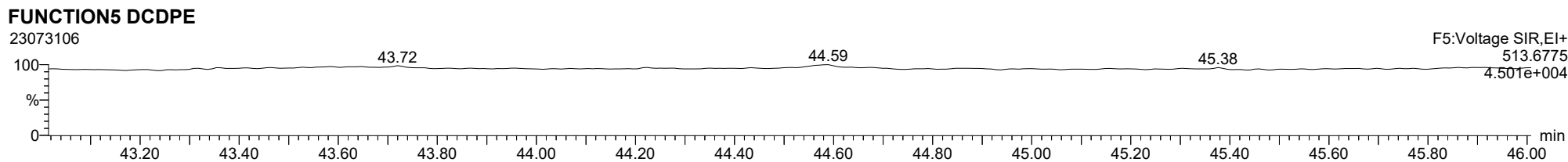
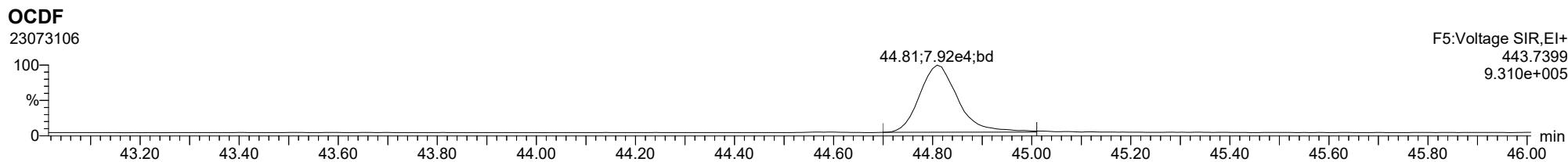
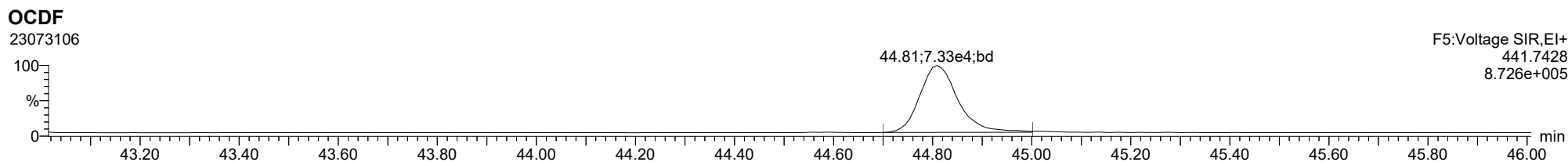


FUNCTION5 PFK

23073106



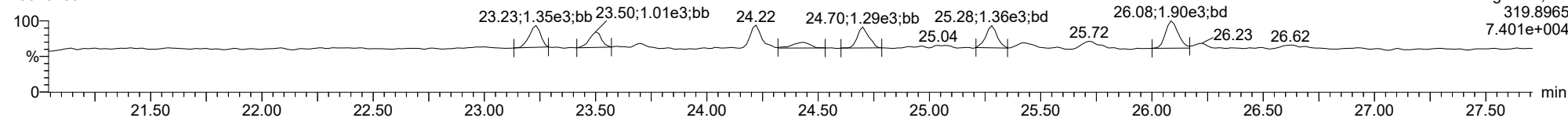
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

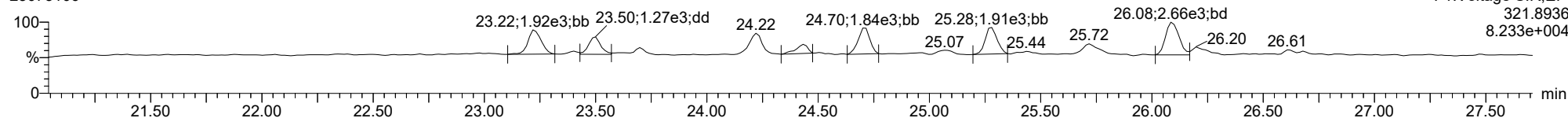
Total-tetraoxins

23073106



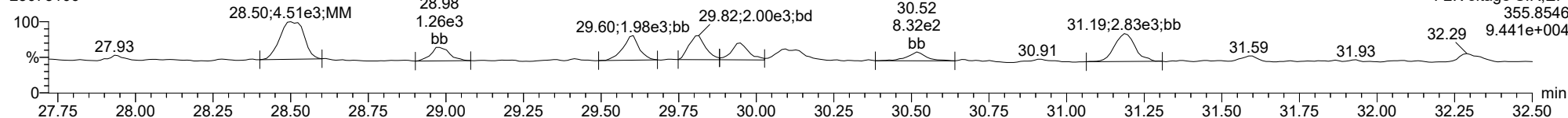
Total-tetraoxins

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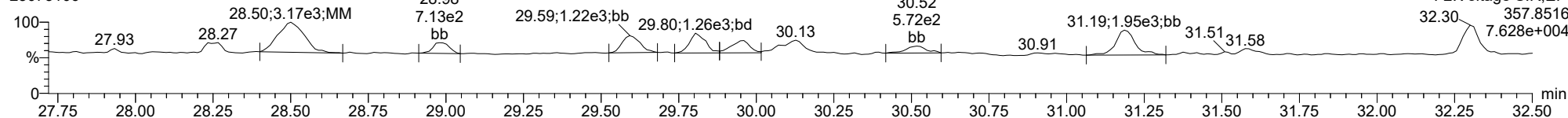
Total-pentadioxins

23073106



Total-pentadioxins

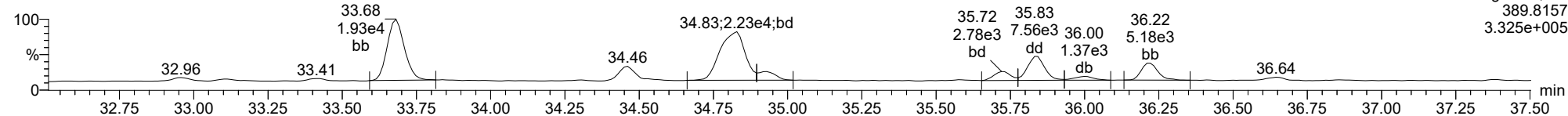
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

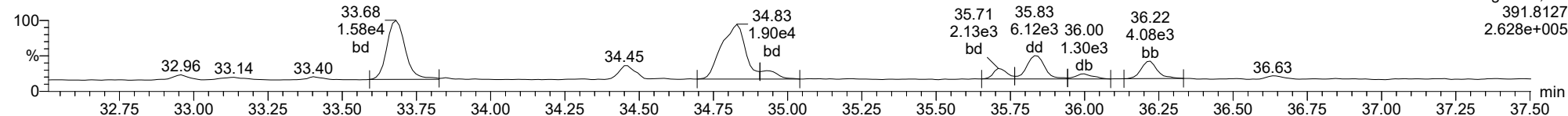
Total-hexadioxins

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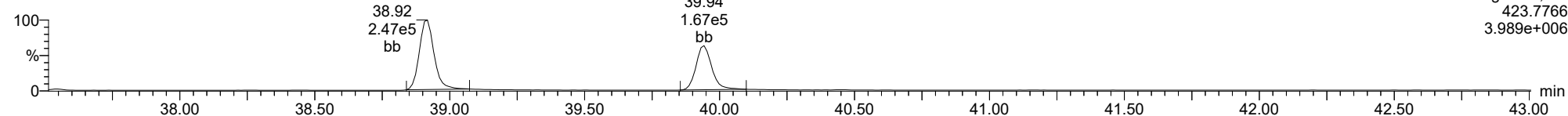
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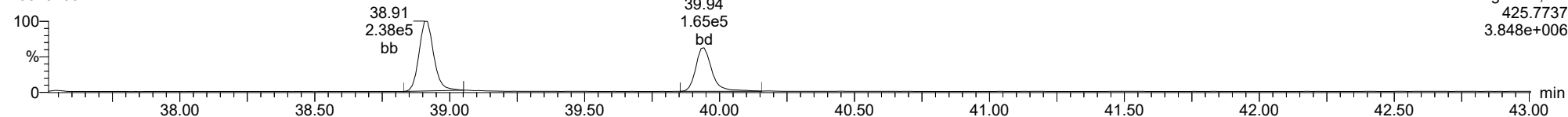
Total-heptadioxins

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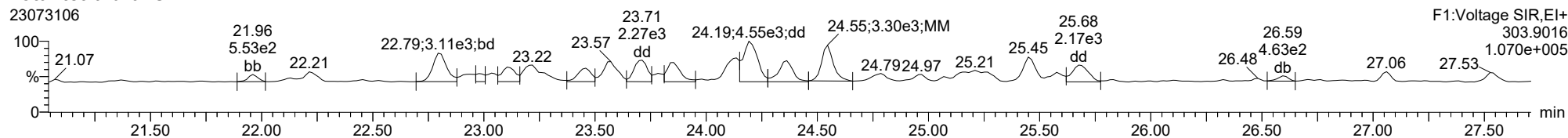
Total-heptadioxins

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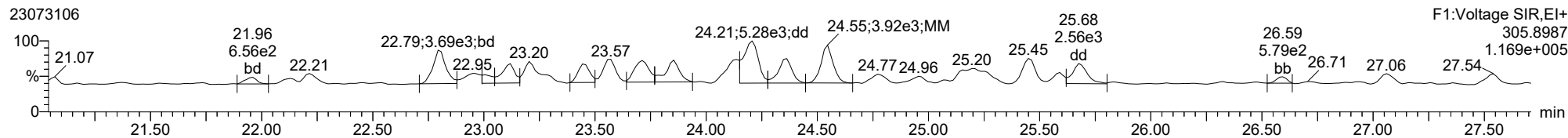


ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

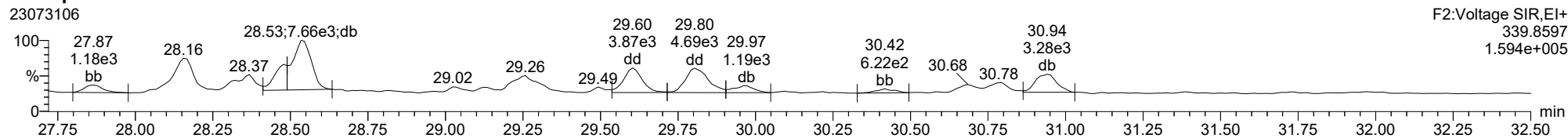
Total-tetrafurans



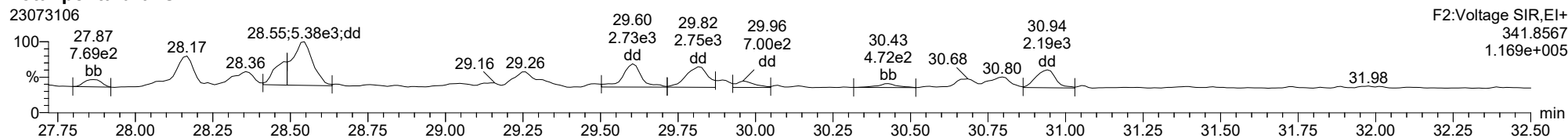
Total-tetrafurans



Total-pentafurans



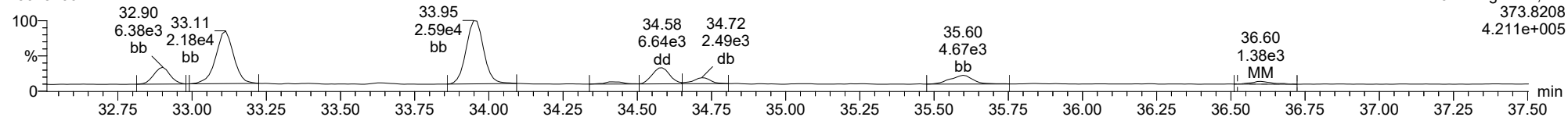
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ID: BLF0318-SRM1, Name: 23073106, Date: 31-Jul-2023, Time: 16:14:47, Conditions: AUTOSPEC01, User: pk

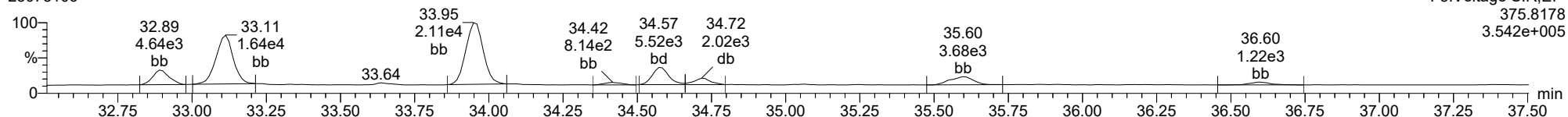
Total-hexafurans

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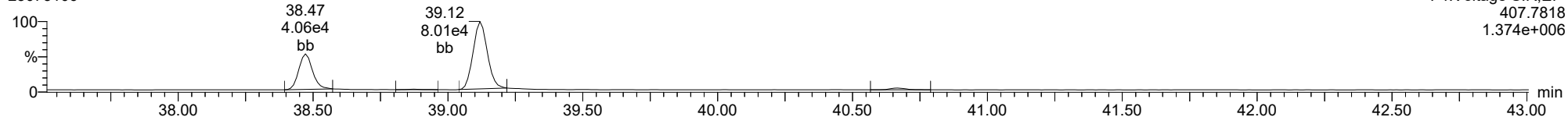
Total-hexafurans

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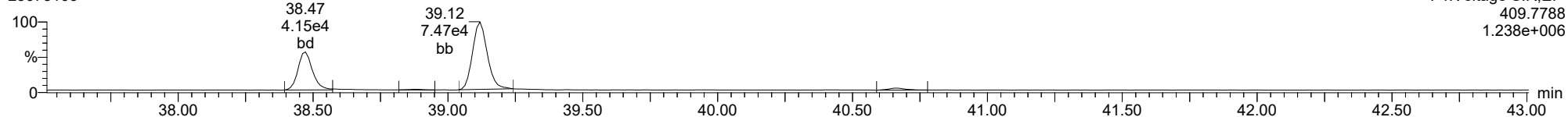
Total-heptafurans

23073106



Total-heptafurans

23073106





INITIAL CALIBRATION DATA EPA 1613B

Laboratory: Analytical Resources, LLC SDG: 23F0143
Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
Calibration: GG00074 Instrument: AUTOSPEC01
Calibration Date: 07/13/2023 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	0.9950482	2	0.9383942	10	0.9845577	40	0.9120307	200	0.9270248
2,3,7,8-TCDD			0.5	1.279281	2	1.168249	10	1.174871	40	1.172668	200	1.187654
1,2,3,7,8-PeCDF	0.5	0.9979304	2.5	0.9756163	10	0.9420003	50	0.9878716	200	0.952231	1000	0.9219412
2,3,4,7,8-PeCDF	0.5	1.1369	2.5	1.060829	10	1.033985	50	1.097086	200	1.048703	1000	1.05463
1,2,3,7,8-PeCDD	0.5	1.108308	2.5	1.165361	10	1.082396	50	1.126531	200	1.168838	1000	1.125185
1,2,3,4,7,8-HxCDF	0.5	1.14101	2.5	1.167982	10	1.130639	50	1.143043	200	1.11357	1000	1.153927
1,2,3,6,7,8-HxCDF	0.5	1.189097	2.5	1.070236	10	1.07228	50	1.028916	200	1.159882	1000	1.076975
2,3,4,6,7,8-HxCDF	0.5	1.07814	2.5	1.128361	10	1.132695	50	1.13027	200	1.225573	1000	1.131306
1,2,3,7,8,9-HxCDF	0.5	1.143146	2.5	1.010032	10	0.9971237	50	1.038162	200	1.13006	1000	1.079919
1,2,3,4,7,8-HxCDD	0.5	0.9405523	2.5	0.8675577	10	0.9257667	50	0.8956116	200	0.9154623	1000	0.9581472
1,2,3,6,7,8-HxCDD	0.5	1.088077	2.5	0.8410889	10	0.9438671	50	0.9296176	200	0.9429513	1000	0.9187526
1,2,3,7,8,9-HxCDD	0.5	0.8071313	2.5	0.9029692	10	0.8408133	50	0.8569725	200	0.9215048	1000	0.8847588
1,2,3,4,6,7,8-HpCDF	0.5	1.195198	2.5	1.236368	10	1.238814	50	1.165048	200	1.173817	1000	1.249255
1,2,3,4,7,8,9-HpCDF	0.5	1.176697	2.5	1.08595	10	1.276886	50	1.217794	200	1.293782	1000	1.224921
1,2,3,4,6,7,8-HpCDD	0.5	1.217837	2.5	1.242796	10	1.153023	50	1.266565	200	1.272374	1000	1.267836
OCDF	1	1.639849	5	1.404497	20	1.408575	100	1.203026	400	1.364091	2000	1.323633
OCDD			5	1.590386	20	1.159152	100	1.073874	400	1.108244	2000	1.130343
13C12-2,3,7,8-TCDF	100	1.961233	100	1.928785	100	1.897208	100	1.826064	100	1.913355	100	1.991149
13C12-2,3,7,8-TCDD	100	1.128939	100	1.1015	100	1.028907	100	1.150366	100	1.01832	100	1.197698
13C12-1,2,3,7,8-PeCDF	100	1.516039	100	1.435184	100	1.371406	100	1.389666	100	1.345915	100	1.673521
13C12-2,3,4,7,8-PeCDF	100	1.412092	100	1.376043	100	1.268448	100	1.311559	100	1.276204	100	1.532796
13C12-1,2,3,7,8-PeCDD	100	0.7752934	100	0.772616	100	0.6898291	100	0.7851764	100	0.6752117	100	0.9233409
13C12-1,2,3,4,7,8-HxCDF	100	1.092844	100	1.12229	100	1.269947	100	1.059714	100	1.144842	100	1.022421
13C12-1,2,3,6,7,8-HxCDF	100	1.254297	100	1.359762	100	1.556556	100	1.335407	100	1.31247	100	1.238391
13C12-2,3,4,6,7,8-HxCDF	100	1.07466	100	1.100908	100	1.254355	100	1.078089	100	1.120149	100	1.047208
13C12-1,2,3,7,8,9-HxCDF	100	0.9290548	100	0.9393402	100	1.073974	100	0.9166083	100	0.9861771	100	0.9060924
13C12-1,2,3,4,7,8-HxCDD	100	0.9366833	100	0.921324	100	1.002692	100	0.9745115	100	0.9697986	100	0.9498883
13C12-1,2,3,6,7,8-HxCDD	100	1.115108	100	1.106746	100	1.165859	100	1.146528	100	1.091625	100	1.094717



INITIAL CALIBRATION DATA
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23F0143
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GG00074	Instrument:	AUTOSPEC01
Calibration Date:	07/13/2023	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	1.065654	100	1.111995	100	1.10689	100	1.027083	100	1.047634	100	0.9908665
13C12-1,2,3,4,7,8,9-HpCDF	100	0.8446028	100	0.8855562	100	0.812854	100	0.768113	100	0.7708839	100	0.7692991
13C12-1,2,3,4,6,7,8-HpCDD	100	0.6556563	100	0.6307095	100	0.6415277	100	0.6486175	100	0.6302637	100	0.6352363
13C12-OCDD	200	0.5054307	200	0.5268359	200	0.5020703	200	0.6460534	200	0.5440749	200	0.6074589
37C14-2,3,7,8-TCDD	0.1	1.192378	0.5	1.107271	2	0.9890426	10	1.174984	40	1.062446	200	1.250238
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:	23F0143
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GG00074	Instrument:	AUTOSPEC01
Calibration Date:	07/13/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2,3,7,8-TCDF	0.9514111	3.8			RSD ()	
2,3,7,8-TCDD	1.196545	3.9			RSD ()	
1,2,3,7,8-PeCDF	0.9629318	3.0			RSD ()	
2,3,4,7,8-PeCDF	1.072022	3.6			RSD ()	
1,2,3,7,8-PeCDD	1.129437	2.9			RSD ()	
1,2,3,4,7,8-HxCDF	1.141695	1.6			RSD ()	
1,2,3,6,7,8-HxCDF	1.099564	5.6			RSD ()	
2,3,4,6,7,8-HxCDF	1.137724	4.2			RSD ()	
1,2,3,7,8,9-HxCDF	1.066407	5.8			RSD ()	
1,2,3,4,7,8-HxCDD	0.917183	3.5			RSD ()	
1,2,3,6,7,8-HxCDD	0.9440591	8.5			RSD ()	
1,2,3,7,8,9-HxCDD	0.869025	4.9			RSD ()	
1,2,3,4,6,7,8-HpCDF	1.20975	3.0			RSD ()	
1,2,3,4,7,8,9-HpCDF	1.212672	6.2			RSD ()	
1,2,3,4,6,7,8-HpCDD	1.236738	3.7			RSD ()	
OCDF	1.390612	10.3			RSD ()	
OCDD	1.2124	17.6			RSD ()	
13C12-2,3,7,8-TCDF	1.919632	3.0			RSD ()	
13C12-2,3,7,8-TCDD	1.104288	6.3			RSD ()	
13C12-1,2,3,7,8-PeCDF	1.455288	8.4			RSD ()	
13C12-2,3,4,7,8-PeCDF	1.362857	7.4			RSD ()	
13C12-1,2,3,7,8-PeCDD	0.7702446	11.5			RSD ()	
13C12-1,2,3,4,7,8-HxCDF	1.118676	7.7			RSD ()	
13C12-1,2,3,6,7,8-HxCDF	1.342814	8.5			RSD ()	
13C12-2,3,4,6,7,8-HxCDF	1.112561	6.6			RSD ()	
13C12-1,2,3,7,8,9-HxCDF	0.9585411	6.6			RSD ()	
13C12-1,2,3,4,7,8-HxCDD	0.9591496	3.0			RSD ()	
13C12-1,2,3,6,7,8-HxCDD	1.120097	2.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDF	1.058354	4.4			RSD ()	
13C12-1,2,3,4,7,8,9-HpCDF	0.8085515	6.0			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDD	0.6403352	1.6			RSD ()	



INITIAL CALIBRATION DATA
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23F0143
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GG00074	Instrument:	AUTOSPEC01
Calibration Date:	07/13/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
13C12-OCDD	0.5553207	10.6			RSD ()	
37C14-2,3,7,8-TCDD	1.129393	8.4			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

SLG0149

Instrument: AUTOSPEC01 HRGCMS Column ID: L2314
Calibration ID: GG00074 Tune File: JUL0323_1-5
EM Voltage: 350 Resolution check times : 10:12, 19:51

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLG0149-ICV1	CS3A1	QC		1	K009821		07/13/2023 10:17	23071302	PK	
SLG0149-RES1	ISCA1	QC		2	L002084		07/13/2023 11:13	23071303	PK	
SLG0149-CAL1	CSLCA	QC		3	I005460		07/13/2023 12:03	23071304	PK	
SLG0149-CAL2	CS1CA	QC		4	I005456		07/13/2023 12:53	23071305	PK	
SLG0149-CAL3	CS2CA	QC		5	I005457		07/13/2023 14:50	23071306	PK	
SLG0149-CAL4	CS3CA	QC		6	K009821		07/13/2023 15:45	23071307	PK	
SLG0149-CAL5	CS4CA	QC		7	I005458		07/13/2023 16:32	23071308	PK	
SLG0149-CAL6	CS5CA	QC		8	I005459		07/13/2023 17:21	23071309	PK	
SLG0149-SCV1	ICVCA	QC		9	H008219		07/13/2023 18:10	23071310	PK	
SLG0149-CCV1	CS3A2	QC		10	K009821		07/13/2023 18:58	23071311	PK	
SLG0149-RES2	CS3A2	QC		11	L002084		07/13/2023 19:51	23071312	PK	

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:27:05 Pacific Daylight Time

7/27/23 PK

Event	Details	Sample ID
Dataset Created		
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230713\CIH.qld'	
Peak deleted	Sample:23071304, Compound:TF, RT:25.675	1
Peak deleted	Sample:23071304, Compound:TD, RT:26.311	1
Peak deleted	Sample:23071304, Compound:OD, RT:44.842	1
Peak deleted	Sample:23071308, Compound:PF, RT:32.217	5
Peak deleted	Sample:23071309, Compound:PF, RT:32.207	6
Peak deleted	Sample:23071309, Compound:HF, RT:33.120	6
Peak deleted	Sample:23071309, Compound:PD, RT:31.772	6
Peak deleted	Sample:23071304, Compound:HPD, RT:39.114	1
Peak deleted	Sample:23071305, Compound:HPD, RT:39.114	2
Peak deleted	Sample:23071308, Compound:HPD, RT:39.125	5
Peak deleted	Sample:23071309, Compound:HPD, RT:39.114	6
Peak modified	Sample:23071305, Compound:OD, RT:44.869	2
Peak modified	Sample:23071304, Compound:HF, RT:34.780	1
Peak modified	Sample:23071304, Compound:HF, RT:34.925	1
Peak modified	Sample:23071304, Compound:HPF, RT:40.885	1
Peak modified	Sample:23071304, Compound:OF, RT:45.098	1
Peak modified	Sample:23071304, Compound:HD, RT:36.016	1
Peak modified	Sample:23071304, Compound:HD, RT:36.016	1
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Peak modified	Sample:23071304, Compound:HD, RT:36.016	1
Peak modified	Sample:23071304, Compound:HD, RT:36.016	1
Peak modified	Sample:23071304, Compound:HD, RT:36.417	1
Peak modified	Sample:23071304, Compound:HPD, RT:40.150	1
Peak modified	Sample:23071305, Compound:TD, RT:26.325	2
Peak modified	Sample:23071307, Compound:OF, RT:45.098	4
Peak modified	Sample:23071308, Compound:OF, RT:45.107	5
Peak modified	Sample:23071304, Compound:PF, RT:31.159	1
Peak modified	Sample:23071304, Compound:HF, RT:35.783	1
Pre modification peak	Sample:23071305, Compound:OD, RT:44.869	2
Pre modification peak	Sample:23071304, Compound:HF, RT:34.780	1
Pre modification peak	Sample:23071304, Compound:HF, RT:34.925	1
Pre modification peak	Sample:23071304, Compound:HPF, RT:40.885	1
Pre modification peak	Sample:23071304, Compound:OF, RT:45.098	1
Pre modification peak	Sample:23071304, Compound:HD, RT:36.016	1
Pre modification peak	Sample:23071304, Compound:HD, RT:36.016	1
Pre modification peak	Sample:23071304, Compound:HD, RT:36.417	1
Pre modification peak	Sample:23071304, Compound:HPD, RT:40.150	1
Pre modification peak	Sample:23071305, Compound:TD, RT:26.325	2
Pre modification peak	Sample:23071307, Compound:OF, RT:45.098	4
Pre modification peak	Sample:23071308, Compound:OF, RT:45.107	5
Pre modification peak	Sample:23071304, Compound:PF, RT:31.159	1
Pre modification peak	Sample:23071304, Compound:HF, RT:35.783	1
Process Calibrate		
Process Extract		
Process Integrate		
Process Quantify		

Dataset: T:\Autospec\Processed Data Batch\230713ICVIH.qld
 Last Altered: Thursday, July 27, 2023 11:32:04 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:32:38 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
 Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, 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	25.675	1.001	2.330e4	3.059e4	0.951	0.762	0.770	1164	1569	3.55e5	4.36e5	304.6	278.0	NO	bb	bb	10.463
12378-PeCDF	29.833	1.001	1.312e5	7.997e4	0.963	1.641	1.550	2300	2034	1.94e6	1.17e6	842.2	576.3	NO	bb	bb	49.074
23478-PeCDF	31.170	1.001	1.327e5	8.355e4	1.072	1.588	1.550	2300	2034	1.96e6	1.26e6	851.0	617.3	NO	bb	bb	47.842
123478-HxCDF	34.791	1.000	8.891e4	7.285e4	1.142	1.220	1.240	1358	1675	1.36e6	1.09e6	998.0	653.4	NO	bd	bd	48.464
234678-HxCDF	35.794	1.000	8.643e4	7.019e4	1.138	1.231	1.240	1358	1675	1.30e6	1.05e6	958.1	627.2	NO	bb	bb	47.614
123678-HxCDF	34.936	1.001	9.536e4	7.670e4	1.100	1.243	1.240	1358	1675	1.38e6	1.10e6	1018.6	657.5	NO	db	db	48.282
123789-HxCDF	36.830	1.000	7.342e4	5.631e4	1.066	1.304	1.240	1358	1675	1.07e6	8.23e5	786.5	491.2	NO	bb	bb	49.072
1234678-HpCDF	38.668	1.000	8.291e4	7.907e4	1.210	1.049	1.050	1448	1079	1.34e6	1.26e6	923.1	1169.9	NO	bb	bb	47.732
1234789-HpCDF	40.896	1.000	6.995e4	6.654e4	1.213	1.051	1.050	1448	1079	8.96e5	8.64e5	619.1	800.8	NO	bd	bd	51.160
OCDF	45.098	1.006	9.488e4	1.050e5	1.391	0.904	0.890	1937	830	1.08e6	1.15e6	555.5	1387.1	NO	bb	bb	82.818
2378-TCDD	26.311	1.001	1.870e4	2.228e4	1.197	0.839	0.770	838	1268	2.87e5	3.35e5	342.3	264.0	NO	bb	bb	9.645
12378-PeCDD	31.415	1.000	8.337e4	5.287e4	1.129	1.577	1.550	1813	900	1.19e6	7.48e5	654.2	831.8	NO	bb	bb	50.689
123478-HxCDD	35.916	1.001	6.754e4	5.513e4	0.917	1.225	1.240	1130	1220	1.05e6	8.43e5	925.7	691.0	NO	bd	bd	52.119
123678-HxCDD	36.028	1.001	7.512e4	6.512e4	0.944	1.153	1.240	1130	1220	1.11e6	9.49e5	981.7	777.7	NO	dd	db	49.172
123789-HxCDD	36.418	1.011	6.957e4	5.861e4	0.869	1.187	1.240	1130	1220	1.00e6	8.56e5	888.1	701.0	NO	bb	bd	52.798
1234678-HpCDD	40.161	1.001	6.145e4	5.883e4	1.237	1.044	1.050	1628	1052	8.40e5	7.99e5	515.8	759.6	NO	bd	bd	48.714
OCDD	44.860	1.000	1.193e5	1.347e5	1.212	0.886	0.890	1424	1254	1.31e6	1.50e6	917.5	1196.8	NO	bd	bd	120.733
13C-2378-TCDF	25.661	1.007	2.431e5	2.982e5	1.920	0.815	0.770	1105	1058	3.54e6	4.41e6	3206.1	4168.1	NO	bb	bb	90.576
13C-12378-PeCDF	29.811	1.170	2.725e5	1.744e5	1.455	1.562	1.550	2015	2397	4.06e6	2.62e6	2013.5	1092.0	NO	bb	bb	98.629
13C-23478-PeCDF	31.148	1.223	2.550e5	1.665e5	1.363	1.531	1.550	2015	2397	3.85e6	2.44e6	1910.3	1019.5	NO	bb	bb	99.349
13C-123478-HxCDF	34.780	0.956	9.912e4	1.932e5	1.119	0.513	0.510	1339	1390	1.49e6	2.91e6	1112.8	2092.9	NO	bd	bd	96.127
13C-123678-HxCDF	34.914	0.959	1.096e5	2.145e5	1.343	0.511	0.510	1339	1390	1.57e6	3.10e6	1173.5	2227.4	NO	db	db	88.778
13C-234678-HxCDF	35.783	0.983	9.970e4	1.894e5	1.113	0.526	0.510	1339	1390	1.39e6	2.79e6	1039.8	2009.2	NO	bd	bb	95.587
13C-123789-HxCDF	36.819	1.012	8.353e4	1.644e5	0.959	0.508	0.510	1339	1390	1.18e6	2.37e6	878.4	1703.8	NO	bb	bb	95.131
13C-1234678-HpCDF	38.657	1.062	8.899e4	1.915e5	1.058	0.465	0.440	1180	2213	1.39e6	3.03e6	1175.4	1369.7	NO	bb	bb	97.494
13C-1234789-HpCDF	40.886	1.123	6.910e4	1.509e5	0.809	0.458	0.440	1180	2213	8.98e5	2.02e6	761.1	911.1	NO	bb	bb	100.087
13C-1234-TCDD	25.478	0.000	1.377e5	1.737e5	1.000	0.793	0.770	1537	924	2.12e6	2.70e6	1380.2	2924.4	NO	bb	bb	100.000
13C-2378-TCDD	26.297	1.032	1.551e5	1.999e5	1.104	0.776	0.770	1537	924	2.34e6	2.95e6	1521.5	3196.6	NO	bb	bb	103.258
13C-12378-PeCDD	31.404	1.233	1.473e5	9.071e4	0.770	1.623	1.550	785	989	2.10e6	1.29e6	2680.3	1300.5	NO	bb	bb	99.233
13C-123478-HxCDD	35.894	0.986	1.425e5	1.141e5	0.959	1.249	1.240	1117	1185	2.28e6	1.83e6	2037.5	1546.4	NO	bd	bd	98.411
13C-123678-HxCDD	36.006	0.989	1.713e5	1.308e5	1.120	1.309	1.240	1117	1185	2.38e6	1.91e6	2128.6	1612.0	NO	db	db	99.210
13C-1234678-HpCDD	40.139	1.103	1.042e5	9.545e4	0.640	1.092	1.050	1103	878	1.40e6	1.30e6	1269.8	1482.1	NO	bd	bb	114.685
13C-OCDD	44.842	1.232	1.623e5	1.848e5	0.555	0.878	0.890	1289	1533	1.83e6	2.05e6	1421.9	1340.2	NO	bb	bd	229.915
13C-123789-HxCDD	36.396	0.000	1.507e5	1.212e5	1.000	1.243	1.240	1117	1185	2.26e6	1.83e6	2024.9	1541.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.311	1.033	3.620e4		1.129			1463		5.38e5		368.0			bb		10.295

Dataset: T:\Autospec\Processed Data Batch\230713\ICVIH.qld
 Last Altered: Thursday, July 27, 2023 11:32:04 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:32:38 Pacific Daylight Time

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, 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	22.172	0.864	2.979e4	3.772e4	1.201	0.790	0.770	1164	1569	4.64e5	6.01e5	398.1	382.9	NO	bb	bb	10.384
1289-TCDF	27.173	1.059	2.211e4	2.902e4	0.950	0.762	0.770	1164	1569	3.47e5	4.26e5	298.4	271.6	NO	bb	db	9.938
13468-PECDF	27.031	0.907	1.473e5	9.786e4	1.142	1.506	1.550	940	865	2.18e6	1.43e6	2323.8	1653.1	NO	bb	bb	48.023
12389-PECDF	32.206	1.080	1.289e5	7.966e4	0.917	1.618	1.550	2300	2034	1.81e6	1.13e6	789.0	554.5	NO	bb	bb	50.901
123468-HXCDF	33.120	0.952	9.509e4	7.586e4	1.332	1.253	1.240	1358	1675	1.42e6	1.13e6	1047.6	674.4	NO	bb	bb	43.906
1368-TCDD	23.444	0.892	1.814e4	2.232e4	1.148	0.813	0.770	838	1268	2.88e5	3.49e5	344.1	275.4	NO	bb	bb	9.926
1289-TCDD	26.904	1.023	1.545e4	1.951e4	0.955	0.792	0.770	838	1268	2.31e5	2.91e5	275.9	229.3	NO	bb	bb	10.313
12479-PECDD	28.697	0.914	1.510e5	9.505e4	2.043	1.589	1.550	1813	900	1.42e6	8.91e5	785.2	990.6	NO	bb	bb	50.621
12389-PECDD	31.816	1.013	1.057e5	6.535e4	1.326	1.617	1.550	1813	900	1.49e6	9.26e5	821.7	1029.6	NO	bd	bb	54.213
124679-HXCDD	33.900	0.944	7.765e4	6.456e4	1.104	1.203	1.240	1130	1220	1.16e6	9.56e5	1030.2	782.9	NO	bb	bb	50.216
1234679-HPCDD	39.114	0.974	7.556e4	7.160e4	1.554	1.055	1.050	1628	1052	1.12e6	1.03e6	690.2	983.2	NO	bd	bd	47.421
Total-tetrafurans			7.560e4		1.034			1164		1.17e6							30.959
Total-penta1			1.473e5					940		2.18e6							48.023
Total-pentafurans			4.155e5		0.984			2300		6.05e6							156.322
Total-hexafurans			4.392e5		1.155			1358		6.53e6							237.338
Total-heptafurans			1.543e5		1.211			1448		2.25e6							99.756
Total-Furans			1.327e6		1.119			1164		1.93e7							655.215
Total-tetradoxins			8.962e4		1.100			838		1.25e6							50.839
Total-pentadoxins			3.401e5		1.499			1813		4.10e6							155.523
Total-hexadoxins			2.900e5		0.958			1130		4.33e6							204.422
Total-heptadoxins			1.370e5		1.396			1628		1.96e6							96.135
Total-Dioxins			9.761e5		1.203			838		1.29e7							627.652
Total-TEQ			2.303e6					838		3.22e7							1282.867
FUNCTION1 PFK			2.654e4					169856		1.01e6							
FUNCTION2 PFK			1.359e5					87903		4.34e6							0.000
FUNCTION3 PFK			1.419e5					159426		3.94e6							0.000
FUNCTION4 PFK			0.000e0					118928		0.00e0							
FUNCTION5 PFK			3.427e4					81563		1.37e6							
FUNCTION1 HXCD...			5.576e2					572		1.49e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.952e3					804		3.80e4							0.000
FUNCTION3 OCDPE			0.000e0					497		0.00e0							
FUNCTION4 NCDPE			1.009e2					486		1.48e3							0.000
FUNCTION5 DCDPE			0.000e0					488		0.00e0							

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
 Calibration: T:\Autospec\Curves\230713\CIH.cdb 27 Jul 2023 11:25:35

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.17	2.211e4	2.902e4	0.950	0.76	0.77	298.4	YES	NO	bb	db	9.938
2	Total-tetrafurans	27.03	3.916e2	5.844e2	1.034	0.67	0.77	6.2	YES	NO	bb	bd	0.174
3	2378-TCDF	25.68	2.330e4	3.059e4	0.951	0.76	0.77	304.6	YES	NO	bb	bb	10.463
4	1368-TCDF	22.17	2.979e4	3.772e4	1.201	0.79	0.77	398.1	YES	NO	bb	bb	10.384

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.03	1.473e5	9.786e4	1.142	1.51	1.55	2323.8	YES	NO	bb	bb	48.023

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.17	1.327e5	8.355e4	1.072	1.59	1.55	851.0	YES	NO	bb	bb	47.842
2	Total-pentafurans	31.03	2.006e2	1.226e2	0.984	1.64	1.55	1.9	NO	NO	bb	bb	0.076
3	12378-PeCDF	29.83	1.312e5	7.997e4	0.963	1.64	1.55	842.2	YES	NO	bb	bb	49.074
4	Total-pentafurans	28.69	2.252e4	1.349e4	0.984	1.67	1.55	143.8	YES	NO	bb	bb	8.428
5	12389-PECDF	32.21	1.289e5	7.966e4	0.917	1.62	1.55	789.0	YES	NO	bb	bb	50.901

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.83	7.342e4	5.631e4	1.066	1.30	1.24	786.5	YES	NO	bb	bb	49.072
2	234678-HxCDF	35.79	8.643e4	7.019e4	1.138	1.23	1.24	958.1	YES	NO	bb	bb	47.614
3	123678-HxCDF	34.94	9.536e4	7.670e4	1.100	1.24	1.24	1018.6	YES	NO	db	db	48.282
4	123478-HxCDF	34.79	8.891e4	7.285e4	1.142	1.22	1.24	998.0	YES	NO	bd	bd	48.464
5	123468-HXCDF	33.12	9.509e4	7.586e4	1.332	1.25	1.24	1047.6	YES	NO	bb	bb	43.906

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.67	8.291e4	7.907e4	1.210	1.05	1.05	923.1	YES	NO	bb	bb	47.732
2	1234789-HpCDF	40.90	6.995e4	6.654e4	1.213	1.05	1.05	619.1	YES	NO	bd	bd	51.160
3	Total-heptafurans	39.33	1.427e3	1.195e3	1.211	1.19	1.05	14.8	YES	NO	bb	db	0.865

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CVIH.qld
 Last Altered: Thursday, July 27, 2023 11:32:04 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:32:38 Pacific Daylight Time

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.17	2.211e4	2.902e4	0.950	0.76	0.77	298.4	YES	NO	bb	db	9.938
2	Total-tetrafurans	27.03	3.916e2	5.844e2	1.034	0.67	0.77	6.2	YES	NO	bb	bd	0.174
3	2378-TCDF	25.68	2.330e4	3.059e4	0.951	0.76	0.77	304.6	YES	NO	bb	bb	10.463
4	1368-TCDF	22.17	2.979e4	3.772e4	1.201	0.79	0.77	398.1	YES	NO	bb	bb	10.384
5	23478-PeCDF	31.17	1.327e5	8.355e4	1.072	1.59	1.55	851.0	YES	NO	bb	bb	47.842
6	Total-pentafurans	31.03	2.006e2	1.226e2	0.984	1.64	1.55	1.9	NO	NO	bb	bb	0.076
7	12378-PeCDF	29.83	1.312e5	7.997e4	0.963	1.64	1.55	842.2	YES	NO	bb	bb	49.074
8	Total-pentafurans	28.69	2.252e4	1.349e4	0.984	1.67	1.55	143.8	YES	NO	bb	bb	8.428
9	12389-PECDF	32.21	1.289e5	7.966e4	0.917	1.62	1.55	789.0	YES	NO	bb	bb	50.901
10	123789-HxCDF	36.83	7.342e4	5.631e4	1.066	1.30	1.24	786.5	YES	NO	bb	bb	49.072
11	234678-HxCDF	35.79	8.643e4	7.019e4	1.138	1.23	1.24	958.1	YES	NO	bb	bb	47.614
12	123678-HxCDF	34.94	9.536e4	7.670e4	1.100	1.24	1.24	1018.6	YES	NO	db	db	48.282
13	123478-HxCDF	34.79	8.891e4	7.285e4	1.142	1.22	1.24	998.0	YES	NO	bd	bd	48.464
14	123468-HXCDF	33.12	9.509e4	7.586e4	1.332	1.25	1.24	1047.6	YES	NO	bb	bb	43.906
15	1234678-HpCDF	38.67	8.291e4	7.907e4	1.210	1.05	1.05	923.1	YES	NO	bb	bb	47.732
16	1234789-HpCDF	40.90	6.995e4	6.654e4	1.213	1.05	1.05	619.1	YES	NO	bd	bd	51.160
17	Total-heptafurans	39.33	1.427e3	1.195e3	1.211	1.19	1.05	14.8	YES	NO	bb	db	0.865
18	OCDF	45.10	9.488e4	1.050e5	1.391	0.90	0.89	555.5	YES	NO	bb	bb	82.818
19	13468-PECDF	27.03	1.473e5	9.786e4	1.142	1.51	1.55	2323.8	YES	NO	bb	bb	48.023

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.99	2.869e4	3.370e4	1.100	0.85	0.77	370.5	YES	NO	bd	bb	15.978
2	Total-tetradioxins	25.51	8.638e3	1.079e4	1.100	0.80	0.77	153.8	YES	NO	bb	bb	4.976
3	1368-TCDD	23.44	1.814e4	2.232e4	1.148	0.81	0.77	344.1	YES	NO	bb	bb	9.926
4	1289-TCDD	26.90	1.545e4	1.951e4	0.955	0.79	0.77	275.9	YES	NO	bb	bb	10.313
5	2378-TCDD	26.31	1.870e4	2.228e4	1.197	0.84	0.77	342.3	YES	NO	bb	bb	9.645

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.82	1.057e5	6.535e4	1.326	1.62	1.55	821.7	YES	NO	bd	bb	54.213
2	12378-PeCDD	31.42	8.337e4	5.287e4	1.129	1.58	1.55	654.2	YES	NO	bb	bb	50.689
3	12479-PECDD	28.70	1.510e5	9.505e4	2.043	1.59	1.55	785.2	YES	NO	bb	bb	50.621

Dataset: T:\Autospec\Processed Data Batch\230713\CVIH.qld
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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	36.69	1.747e2	1.343e2	0.958	1.30	1.24	5.0	YES	NO	bd	dd	0.115
2	123789-HxCDD	36.42	6.957e4	5.861e4	0.869	1.19	1.24	888.1	YES	NO	bb	bd	52.798
3	123678-HxCDD	36.03	7.512e4	6.512e4	0.944	1.15	1.24	981.7	YES	NO	dd	db	49.172
4	123478-HxCDD	35.92	6.754e4	5.513e4	0.917	1.23	1.24	925.7	YES	NO	bd	bd	52.119
5	124679-HXCDD	33.90	7.765e4	6.456e4	1.104	1.20	1.24	1030.2	YES	NO	bb	bb	50.216

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.16	6.145e4	5.883e4	1.237	1.04	1.05	515.8	YES	NO	bd	bd	48.714
2	1234679-HPCDD	39.11	7.556e4	7.160e4	1.554	1.06	1.05	690.2	YES	NO	bd	bd	47.421

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.99	2.869e4	3.370e4	1.100	0.85	0.77	370.5	YES	NO	bd	bb	15.978
2	Total-tetradioxins	25.51	8.638e3	1.079e4	1.100	0.80	0.77	153.8	YES	NO	bb	bb	4.976
3	1368-TCDD	23.44	1.814e4	2.232e4	1.148	0.81	0.77	344.1	YES	NO	bb	bb	9.926
4	1289-TCDD	26.90	1.545e4	1.951e4	0.955	0.79	0.77	275.9	YES	NO	bb	bb	10.313
5	2378-TCDD	26.31	1.870e4	2.228e4	1.197	0.84	0.77	342.3	YES	NO	bb	bb	9.645
6	12389-PECDD	31.82	1.057e5	6.535e4	1.326	1.62	1.55	821.7	YES	NO	bd	bb	54.213
7	12378-PeCDD	31.42	8.337e4	5.287e4	1.129	1.58	1.55	654.2	YES	NO	bb	bb	50.689
8	12479-PECDD	28.70	1.510e5	9.505e4	2.043	1.59	1.55	785.2	YES	NO	bb	bb	50.621
9	Total-hexadioxins	36.69	1.747e2	1.343e2	0.958	1.30	1.24	5.0	YES	NO	bd	dd	0.115
10	123789-HxCDD	36.42	6.957e4	5.861e4	0.869	1.19	1.24	888.1	YES	NO	bb	bd	52.798
11	123678-HxCDD	36.03	7.512e4	6.512e4	0.944	1.15	1.24	981.7	YES	NO	dd	db	49.172
12	123478-HxCDD	35.92	6.754e4	5.513e4	0.917	1.23	1.24	925.7	YES	NO	bd	bd	52.119
13	124679-HXCDD	33.90	7.765e4	6.456e4	1.104	1.20	1.24	1030.2	YES	NO	bb	bb	50.216
14	1234678-HpCDD	40.16	6.145e4	5.883e4	1.237	1.04	1.05	515.8	YES	NO	bd	bd	48.714
15	1234679-HPCDD	39.11	7.556e4	7.160e4	1.554	1.06	1.05	690.2	YES	NO	bd	bd	47.421
16	OCDD	44.86	1.193e5	1.347e5	1.212	0.89	0.89	917.5	YES	NO	bd	bd	120.733

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	27.17	2.211e4	2.902e4	0.950	0.76	0.77	298.4	YES	NO	bb	db	9.938
2	Total-tetrafurans	27.03	3.916e2	5.844e2	1.034	0.67	0.77	6.2	YES	NO	bb	bd	0.174
3	2378-TCDF	25.68	2.330e4	3.059e4	0.951	0.76	0.77	304.6	YES	NO	bb	bb	10.463
4	1368-TCDF	22.17	2.979e4	3.772e4	1.201	0.79	0.77	398.1	YES	NO	bb	bb	10.384
5	23478-PeCDF	31.17	1.327e5	8.355e4	1.072	1.59	1.55	851.0	YES	NO	bb	bb	47.842
6	Total-pentafurans	31.03	2.006e2	1.226e2	0.984	1.64	1.55	1.9	NO	NO	bb	bb	0.076
7	12378-PeCDF	29.83	1.312e5	7.997e4	0.963	1.64	1.55	842.2	YES	NO	bb	bb	49.074
8	Total-pentafurans	28.69	2.252e4	1.349e4	0.984	1.67	1.55	143.8	YES	NO	bb	bb	8.428
9	12389-PECDF	32.21	1.289e5	7.966e4	0.917	1.62	1.55	789.0	YES	NO	bb	bb	50.901
10	123789-HxCDF	36.83	7.342e4	5.631e4	1.066	1.30	1.24	786.5	YES	NO	bb	bb	49.072
11	234678-HxCDF	35.79	8.643e4	7.019e4	1.138	1.23	1.24	958.1	YES	NO	bb	bb	47.614
12	123678-HxCDF	34.94	9.536e4	7.670e4	1.100	1.24	1.24	1018.6	YES	NO	db	db	48.282
13	123478-HxCDF	34.79	8.891e4	7.285e4	1.142	1.22	1.24	998.0	YES	NO	bd	bd	48.464
14	123468-HXCDF	33.12	9.509e4	7.586e4	1.332	1.25	1.24	1047.6	YES	NO	bb	bb	43.906
15	1234678-HpCDF	38.67	8.291e4	7.907e4	1.210	1.05	1.05	923.1	YES	NO	bb	bb	47.732
16	1234789-HpCDF	40.90	6.995e4	6.654e4	1.213	1.05	1.05	619.1	YES	NO	bd	bd	51.160
17	Total-heptafurans	39.33	1.427e3	1.195e3	1.211	1.19	1.05	14.8	YES	NO	bb	db	0.865
18	OCDF	45.10	9.488e4	1.050e5	1.391	0.90	0.89	555.5	YES	NO	bb	bb	82.818
19	13468-PECDF	27.03	1.473e5	9.786e4	1.142	1.51	1.55	2323.8	YES	NO	bb	bb	48.023
20	Total-tetradiioxins	25.99	2.869e4	3.370e4	1.100	0.85	0.77	370.5	YES	NO	bd	bb	15.978
21	Total-tetradiioxins	25.51	8.638e3	1.079e4	1.100	0.80	0.77	153.8	YES	NO	bb	bb	4.976
22	1368-TCDD	23.44	1.814e4	2.232e4	1.148	0.81	0.77	344.1	YES	NO	bb	bb	9.926
23	1289-TCDD	26.90	1.545e4	1.951e4	0.955	0.79	0.77	275.9	YES	NO	bb	bb	10.313
24	2378-TCDD	26.31	1.870e4	2.228e4	1.197	0.84	0.77	342.3	YES	NO	bb	bb	9.645
25	12389-PECDD	31.82	1.057e5	6.535e4	1.326	1.62	1.55	821.7	YES	NO	bd	bb	54.213
26	12378-PeCDD	31.42	8.337e4	5.287e4	1.129	1.58	1.55	654.2	YES	NO	bb	bb	50.689
27	12479-PECDD	28.70	1.510e5	9.505e4	2.043	1.59	1.55	785.2	YES	NO	bb	bb	50.621
28	Total-hexadiioxins	36.69	1.747e2	1.343e2	0.958	1.30	1.24	5.0	YES	NO	bd	dd	0.115
29	123789-HxCDD	36.42	6.957e4	5.861e4	0.869	1.19	1.24	888.1	YES	NO	bb	bd	52.798
30	123678-HxCDD	36.03	7.512e4	6.512e4	0.944	1.15	1.24	981.7	YES	NO	dd	db	49.172
31	123478-HxCDD	35.92	6.754e4	5.513e4	0.917	1.23	1.24	925.7	YES	NO	bd	bd	52.119
32	124679-HXCDD	33.90	7.765e4	6.456e4	1.104	1.20	1.24	1030.2	YES	NO	bb	bb	50.216
33	1234678-HpCDD	40.16	6.145e4	5.883e4	1.237	1.04	1.05	515.8	YES	NO	bd	bd	48.714
34	1234679-HPCDD	39.11	7.556e4	7.160e4	1.554	1.06	1.05	690.2	YES	NO	bd	bd	47.421
35	OCDD	44.86	1.193e5	1.347e5	1.212	0.89	0.89	917.5	YES	NO	bd	bd	120.733

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	26.48	1.362e3					0.6	NO		bb		
2	FUNCTION1 PFK	25.75	1.200e4					1.9	NO		bb		
3	FUNCTION1 PFK	24.56	4.032e3					0.9	NO		bb		
4	FUNCTION1 PFK	24.19	3.916e3					1.0	NO		bb		
5	FUNCTION1 PFK	22.33	1.474e3					0.6	NO		bb		
6	FUNCTION1 PFK	22.05	3.760e3					1.0	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	29.29	2.860e3					1.3	NO		db		0.000
2	FUNCTION2 PFK	29.24	2.972e3					1.3	NO		dd		0.000
3	FUNCTION2 PFK	29.21	2.146e3					1.1	NO		bd		0.000
4	FUNCTION2 PFK	29.08	4.163e3					1.5	NO		bb		0.000
5	FUNCTION2 PFK	28.98	1.013e3					0.6	NO		bb		0.000
6	FUNCTION2 PFK	28.69	1.863e3					0.8	NO		bb		0.000
7	FUNCTION2 PFK	28.54	1.131e4					1.8	NO		bb		0.000
8	FUNCTION2 PFK	28.34	8.927e2					0.6	NO		bb		0.000
9	FUNCTION2 PFK	28.12	3.523e3					1.5	NO		bb		0.000
10	FUNCTION2 PFK	30.68	1.442e3					0.9	NO		bd		0.000
11	FUNCTION2 PFK	30.52	1.286e3					0.8	NO		bb		0.000
12	FUNCTION2 PFK	30.27	2.151e3					1.2	NO		bb		0.000
13	FUNCTION2 PFK	30.21	6.821e3					1.7	NO		bb		0.000
14	FUNCTION2 PFK	30.15	3.333e3					1.3	NO		bb		0.000
15	FUNCTION2 PFK	30.00	3.868e3					1.3	NO		bb		0.000
16	FUNCTION2 PFK	29.92	2.415e3					1.2	NO		bb		0.000
17	FUNCTION2 PFK	29.86	2.136e3					1.0	NO		bb		0.000
18	FUNCTION2 PFK	29.80	3.572e3					2.0	NO		db		0.000
19	FUNCTION2 PFK	29.77	8.876e3					2.6	NO		dd		0.000
20	FUNCTION2 PFK	29.69	3.303e3					1.4	NO		dd		0.000
21	FUNCTION2 PFK	29.64	4.012e3					1.3	NO		dd		0.000
22	FUNCTION2 PFK	29.55	7.895e3					1.7	NO		bd		0.000
23	FUNCTION2 PFK	29.48	2.987e3					1.1	NO		db		0.000
24	FUNCTION2 PFK	29.42	2.389e3					1.0	NO		dd		0.000
25	FUNCTION2 PFK	29.39	1.909e3					1.0	NO		bd		0.000
26	FUNCTION2 PFK	32.75	5.165e3					1.1	NO		bb		0.000
27	FUNCTION2 PFK	32.67	5.735e2					0.6	NO		bb		0.000
28	FUNCTION2 PFK	32.54	1.324e3					0.8	NO		bb		0.000
29	FUNCTION2 PFK	32.03	2.237e3					1.2	NO		bb		0.000
30	FUNCTION2 PFK	31.87	8.749e3					2.2	NO		bb		0.000
31	FUNCTION2 PFK	31.69	6.428e3					1.2	NO		bb		0.000
32	FUNCTION2 PFK	31.56	6.066e2					0.6	NO		bb		0.000
33	FUNCTION2 PFK	31.50	2.586e3					1.2	NO		bb		0.000
34	FUNCTION2 PFK	31.40	8.728e2					0.6	NO		bb		0.000
35	FUNCTION2 PFK	31.32	2.839e3					1.4	NO		bb		0.000
36	FUNCTION2 PFK	31.19	3.756e3					1.4	NO		bb		0.000
37	FUNCTION2 PFK	31.01	2.816e3					1.1	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	30.93	2.531e3					1.0	NO		bb		0.000
39	FUNCTION2 PFK	30.78	1.694e3					1.1	NO		bb		0.000
40	FUNCTION2 PFK	30.72	4.583e3					2.0	NO		db		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.41	2.841e4					2.8	NO		db		0.000
2	FUNCTION3 PFK	36.35	1.682e4					2.3	NO		bd		0.000
3	FUNCTION3 PFK	35.85	5.911e3					1.4	NO		db		0.000
4	FUNCTION3 PFK	35.81	4.222e3					1.0	NO		bd		0.000
5	FUNCTION3 PFK	35.40	9.978e3					1.7	NO		bb		0.000
6	FUNCTION3 PFK	35.31	6.410e3					1.8	NO		bb		0.000
7	FUNCTION3 PFK	35.27	9.281e2					0.5	NO		bb		0.000
8	FUNCTION3 PFK	35.23	8.770e2					0.5	NO		bb		0.000
9	FUNCTION3 PFK	35.14	5.109e3					1.4	NO		bb		0.000
10	FUNCTION3 PFK	35.06	8.839e3					1.4	NO		bb		0.000
11	FUNCTION3 PFK	34.96	8.541e3					1.4	NO		bb		0.000
12	FUNCTION3 PFK	34.50	2.464e3					0.8	NO		db		0.000
13	FUNCTION3 PFK	34.46	4.723e3					1.0	NO		bd		0.000
14	FUNCTION3 PFK	34.26	6.667e2					0.4	NO		bb		0.000
15	FUNCTION3 PFK	34.12	8.656e3					0.9	NO		bb		0.000
16	FUNCTION3 PFK	32.98	6.930e3					0.9	NO		bb		0.000
17	FUNCTION3 PFK	37.67	3.401e3					0.9	NO		bb		0.000
18	FUNCTION3 PFK	37.42	1.570e3					0.5	NO		bb		0.000
19	FUNCTION3 PFK	37.39	2.382e3					0.8	NO		bb		0.000
20	FUNCTION3 PFK	37.03	5.897e3					1.0	NO		bb		0.000
21	FUNCTION3 PFK	36.83	9.128e3					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													

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	44.65	9.900e2					0.7	NO		bb		
2	FUNCTION5 PFK	44.05	1.591e3					0.9	NO		bb		
3	FUNCTION5 PFK	43.82	3.960e2					0.5	NO		bb		
4	FUNCTION5 PFK	43.79	4.512e2					0.6	NO		bb		
5	FUNCTION5 PFK	43.75	5.061e2					0.7	NO		bb		
6	FUNCTION5 PFK	43.51	3.261e3					1.4	NO		bb		
7	FUNCTION5 PFK	43.39	9.968e2					0.8	NO		bb		
8	FUNCTION5 PFK	43.14	3.307e3					1.7	NO		bb		
9	FUNCTION5 PFK	43.06	4.318e2					0.6	NO		bb		
10	FUNCTION5 PFK	45.78	8.524e3					2.3	NO		bb		
11	FUNCTION5 PFK	45.63	4.226e3					1.7	NO		bb		
12	FUNCTION5 PFK	45.38	2.376e3					1.3	NO		bb		
13	FUNCTION5 PFK	45.33	1.091e3					0.8	NO		bb		
14	FUNCTION5 PFK	45.02	4.422e3					2.0	NO		bb		
15	FUNCTION5 PFK	44.89	1.704e3					0.8	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.32	1.003e2					5.1	YES		bb		0.000
2	FUNCTION1 HXCD...	25.21	1.243e2					5.0	YES		bb		0.000
3	FUNCTION1 HXCD...	23.94	2.504e2					14.3	YES		bb		0.000
4	FUNCTION1 HXCD...	22.02	8.263e1					1.6	NO		bb		0.000

ETHERS2

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

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.56	3.913e2					10.6	YES		bd		0.000
2	FUNCTION2 HPCD...	31.93	1.916e2					9.9	YES		bb		0.000
3	FUNCTION2 HPCD...	31.03	1.615e2					4.0	YES		bb		0.000
4	FUNCTION2 HPCD...	28.13	1.219e2					1.9	NO		bb		0.000
5	FUNCTION2 HPCD...	32.72	3.060e2					9.4	YES		db		0.000
6	FUNCTION2 HPCD...	32.64	7.801e2					11.5	YES		dd		0.000

ETHERS4

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

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.77	1.009e2					3.0	YES		bb		0.000

ETHERS6

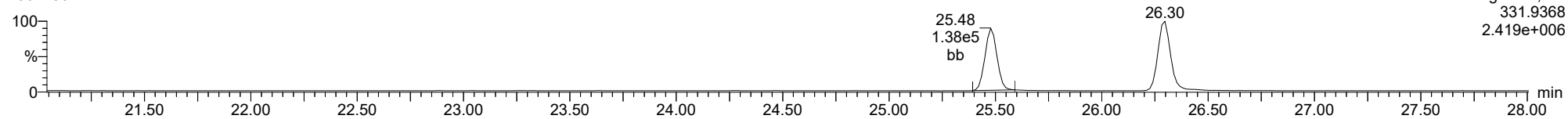
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1													

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

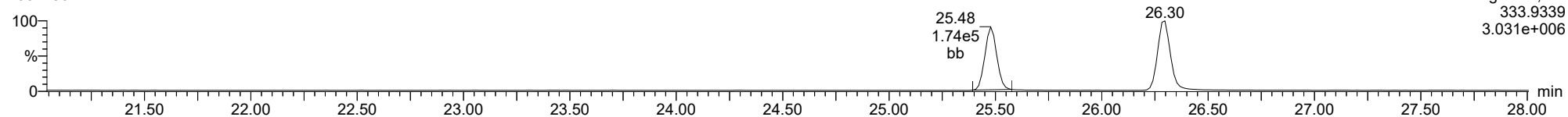
13C-1234-TCDD

23071302



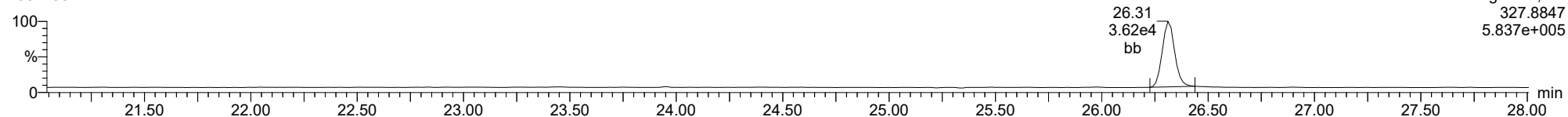
13C-1234-TCDD

23071302



37CL-2378-TCDD

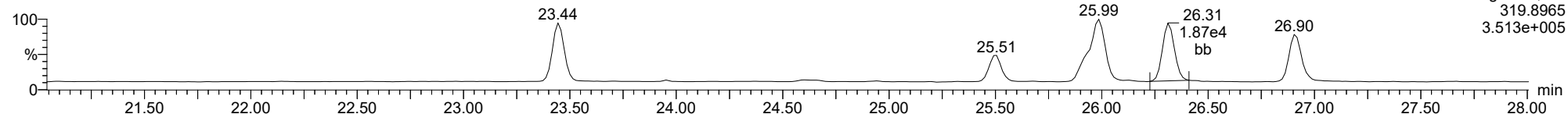
23071302



ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

2378-TCDD

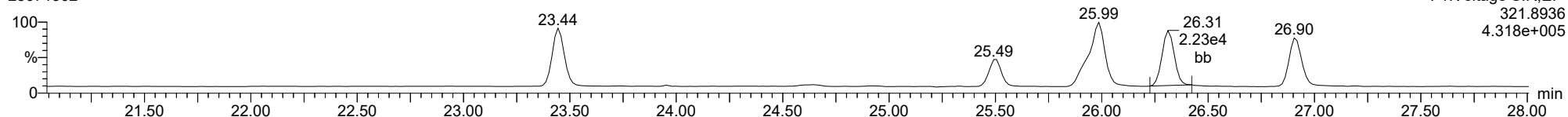
23071302



F1:Voltage SIR,EI+
319.8965
3.513e+005

2378-TCDD

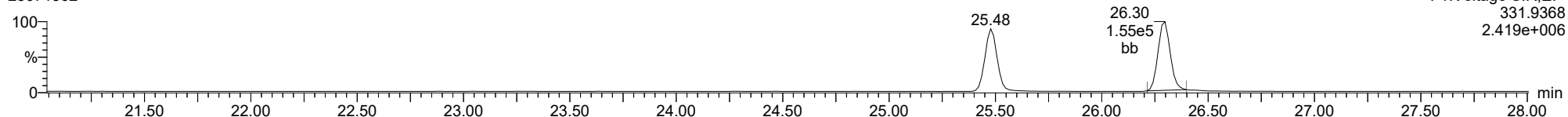
23071302



F1:Voltage SIR,EI+
321.8936
4.318e+005

13C-2378-TCDD

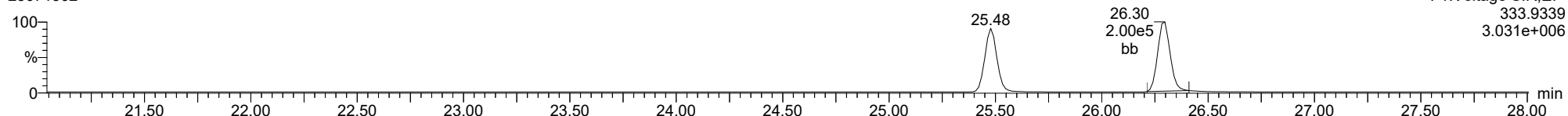
23071302



F1:Voltage SIR,EI+
331.9368
2.419e+006

13C-2378-TCDD

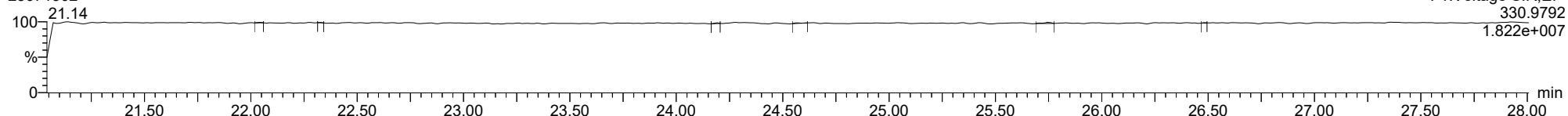
23071302



F1:Voltage SIR,EI+
333.9339
3.031e+006

FUNCTION1 PFK

23071302

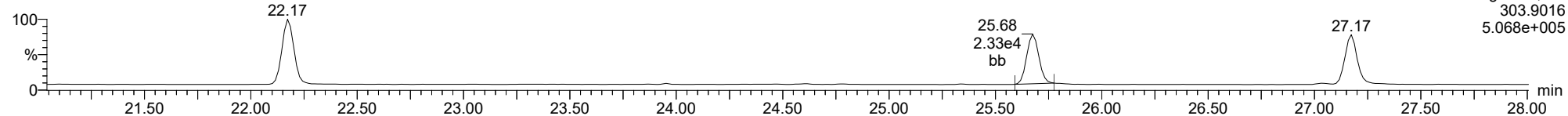


F1:Voltage SIR,EI+
330.9792
1.822e+007

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

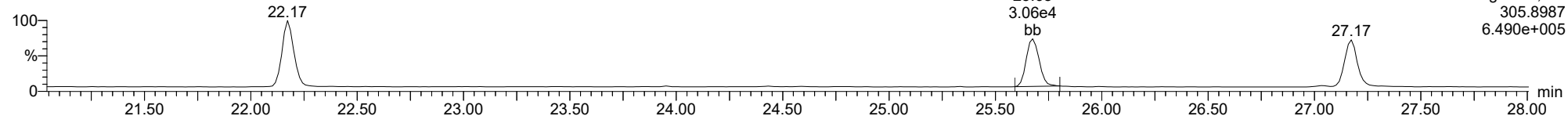
2378-TCDF

23071302



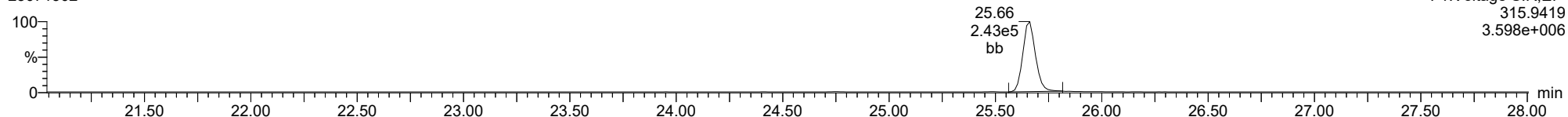
2378-TCDF

23071302



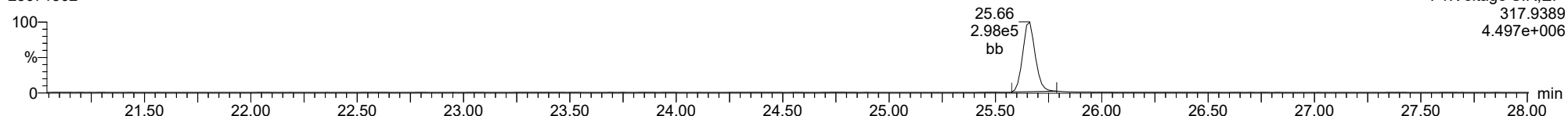
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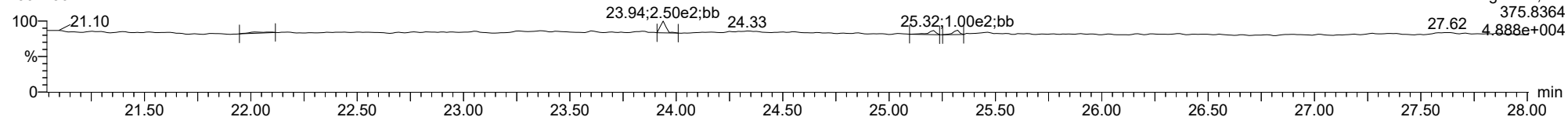
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23071302



FUNCTION1 HXCDPE

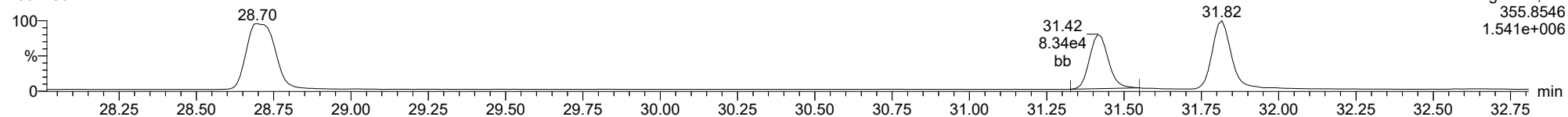
23071302



ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

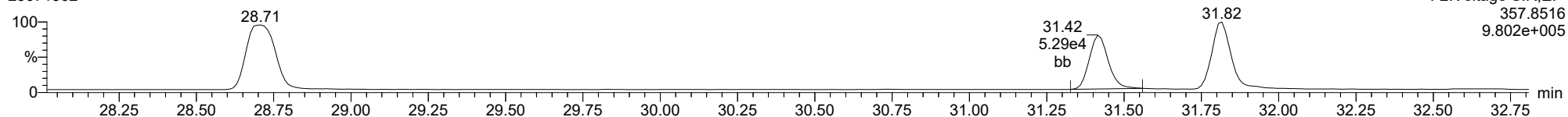
23071302



F2:Voltage SIR,EI+
355.8546
1.541e+006

12378-PeCDD

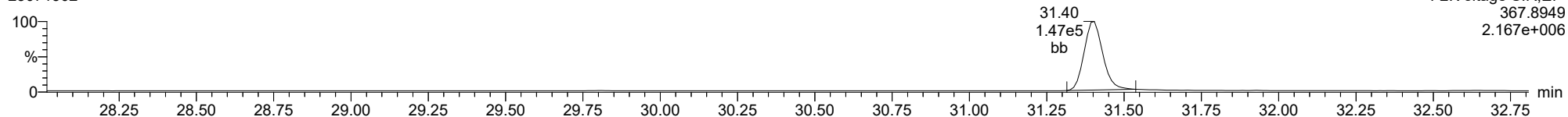
23071302



F2:Voltage SIR,EI+
357.8516
9.802e+005

13C-12378-PeCDD

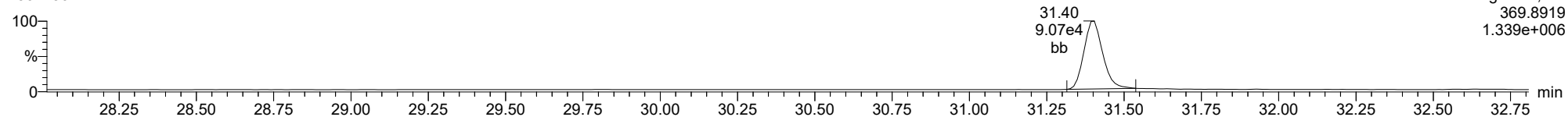
23071302



F2:Voltage SIR,EI+
367.8949
2.167e+006

13C-12378-PeCDD

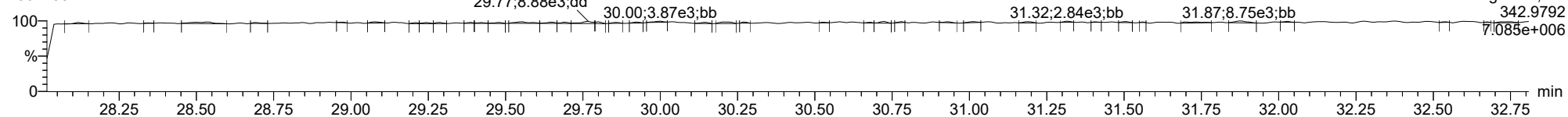
23071302



F2:Voltage SIR,EI+
369.8919
1.339e+006

FUNCTION2 PFK

23071302

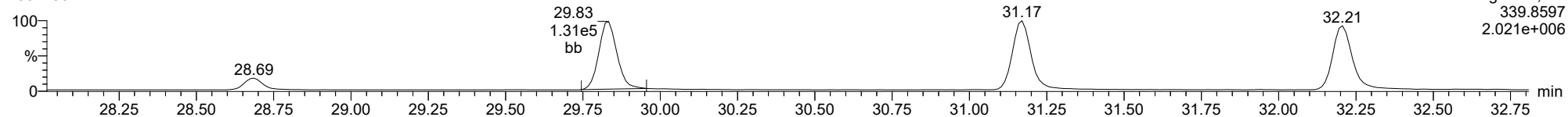


F2:Voltage SIR,EI+
342.9792
7.085e+006

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

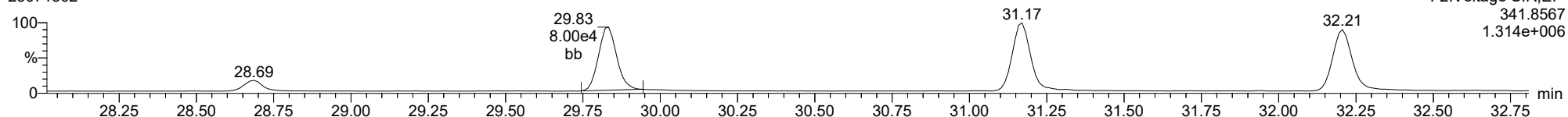
12378-PeCDF

23071302



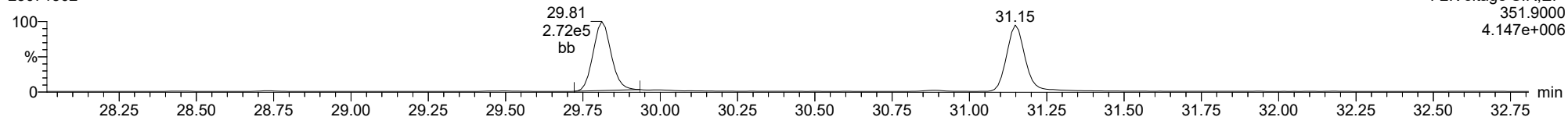
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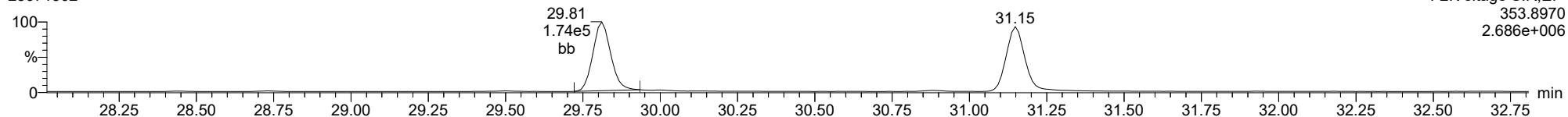
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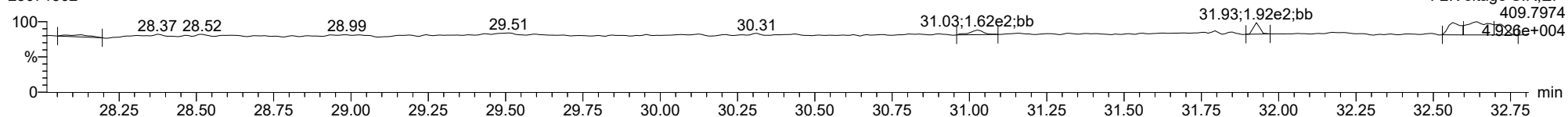
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23071302



FUNCTION2 HPCDPE

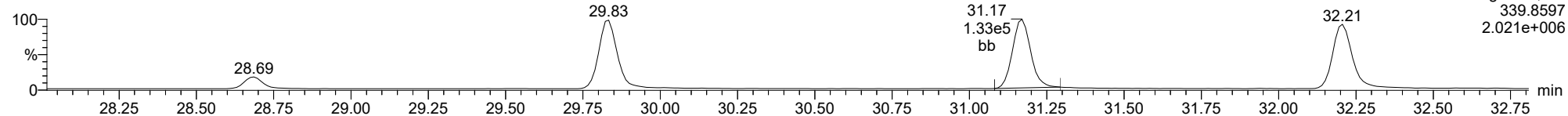
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

23478-PeCDF

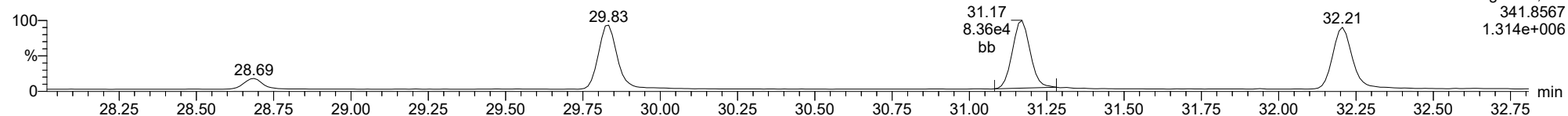
23071302



F2:Voltage SIR,EI+
339.8597
2.021e+006

23478-PeCDF

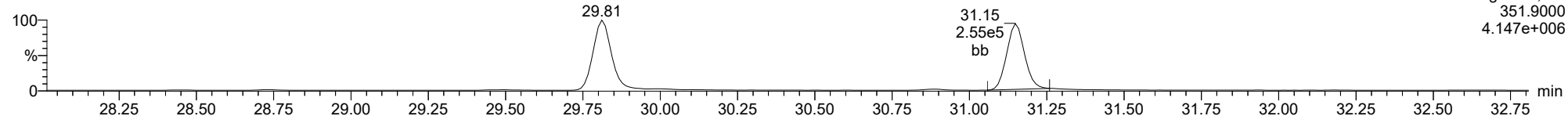
23071302



F2:Voltage SIR,EI+
341.8567
1.314e+006

13C-23478-PeCDF

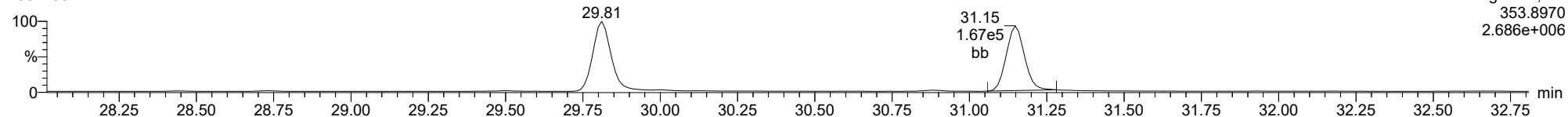
23071302



F2:Voltage SIR,EI+
351.9000
4.147e+006

13C-23478-PeCDF

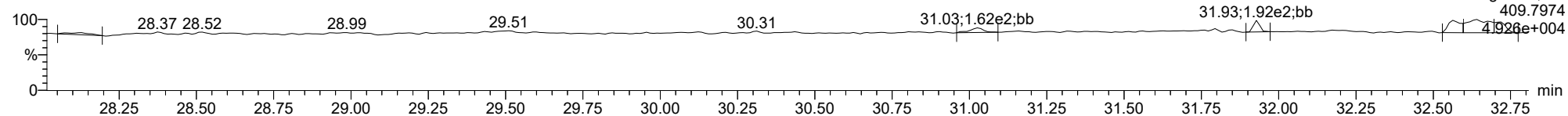
23071302



F2:Voltage SIR,EI+
353.8970
2.686e+006

FUNCTION2 HPCDPE

23071302

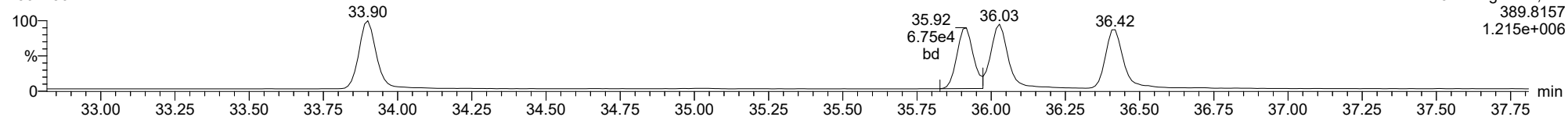


F2:Voltage SIR,EI+
409.7974
4.926e+004

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

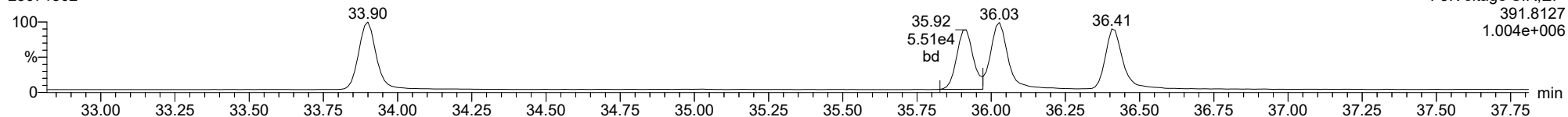
123478-HxCDD

23071302



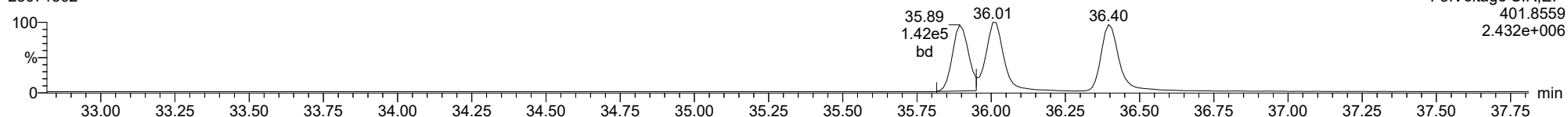
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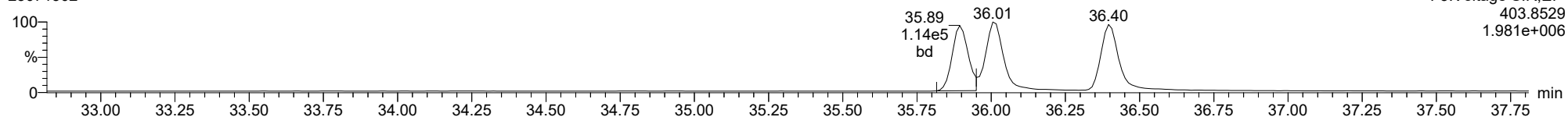
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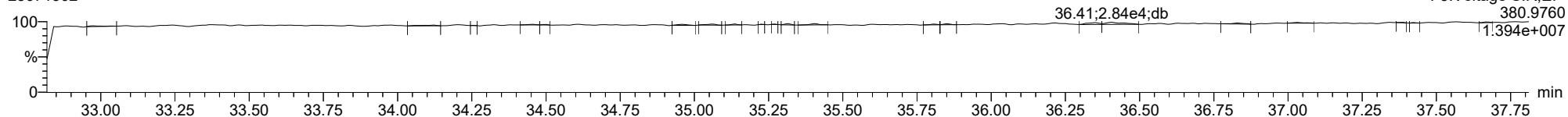
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23071302



FUNCTION3 PFK

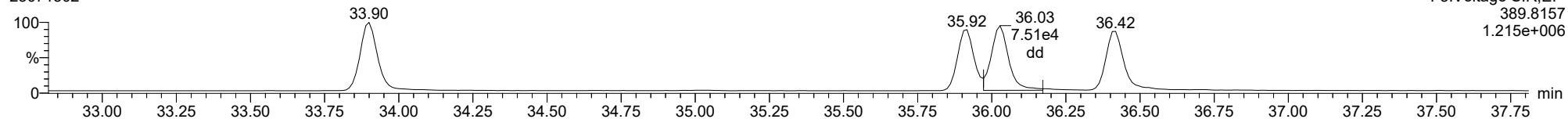
23071302



ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

123678-HxCDD

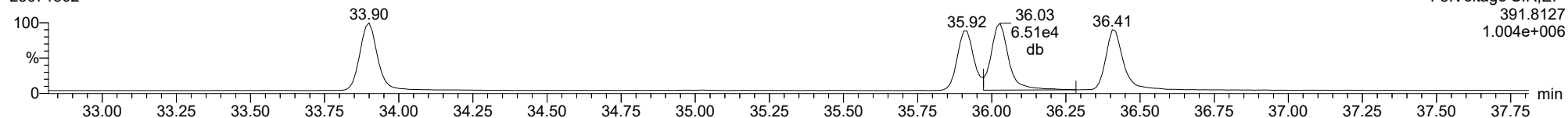
23071302



F3:Voltage SIR,EI+
389.8157
1.215e+006

123678-HxCDD

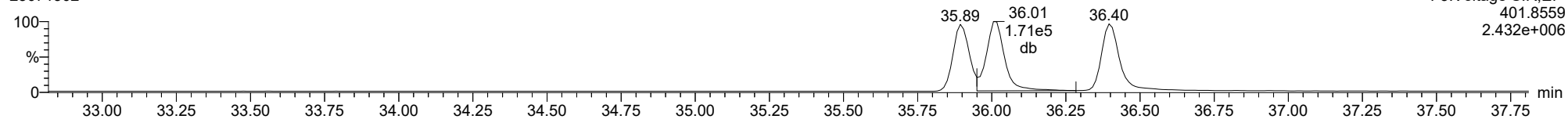
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F3:Voltage SIR,EI+
391.8127
1.004e+006

13C-123678-HxCDD

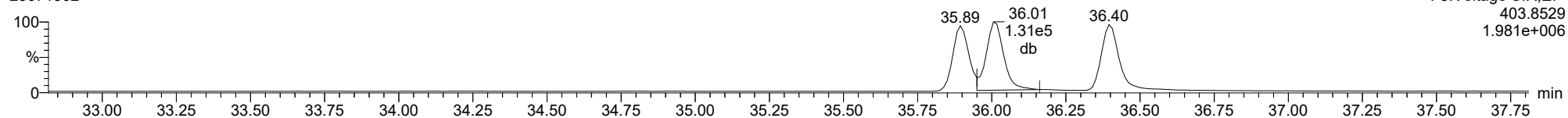
23071302



F3:Voltage SIR,EI+
401.8559
2.432e+006

13C-123678-HxCDD

23071302

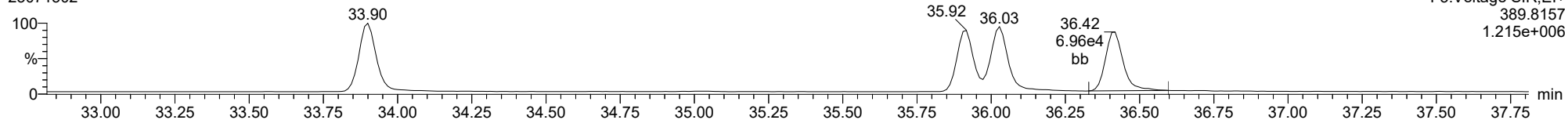


F3:Voltage SIR,EI+
403.8529
1.981e+006

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

123789-HxCDD

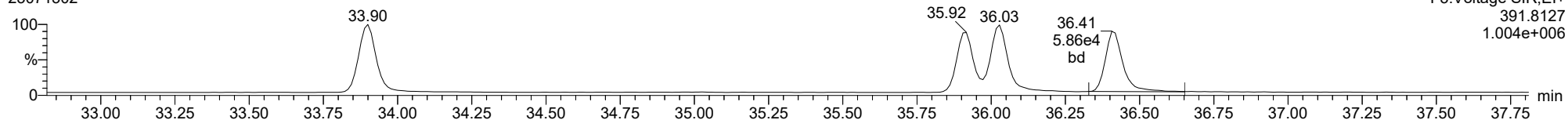
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F3:Voltage SIR,EI+
389.8157
1.215e+006

123789-HxCDD

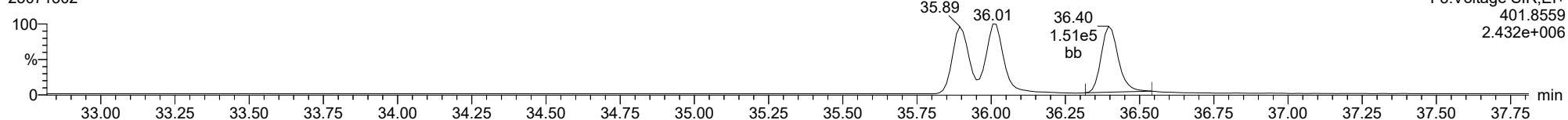
23071302



F3:Voltage SIR,EI+
391.8127
1.004e+006

13C-123789-HxCDD

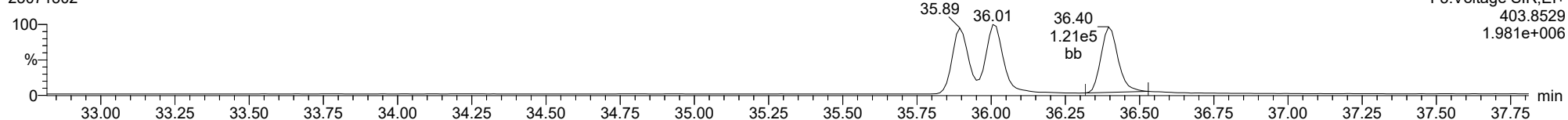
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F3:Voltage SIR,EI+
401.8559
2.432e+006

13C-123789-HxCDD

23071302

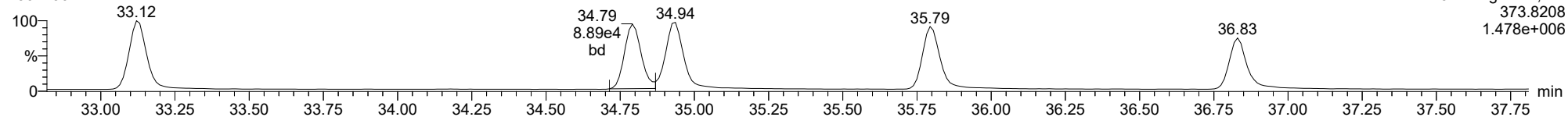


F3:Voltage SIR,EI+
403.8529
1.981e+006

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

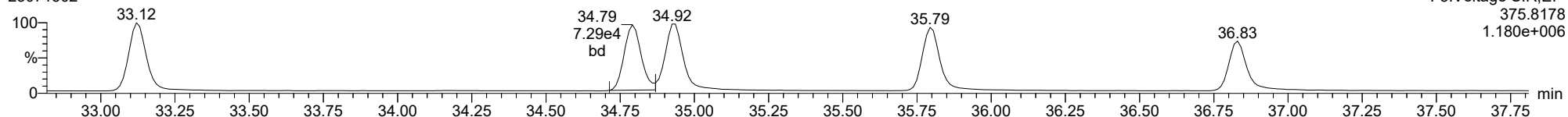
123478-HxCDF

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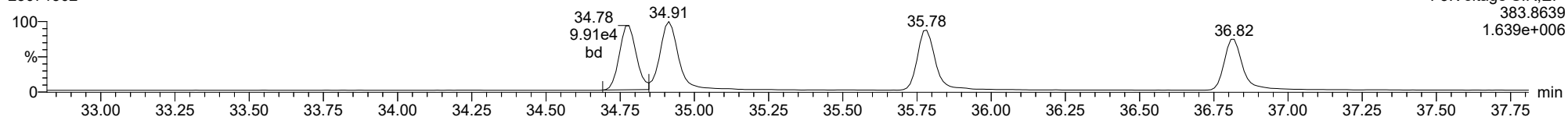
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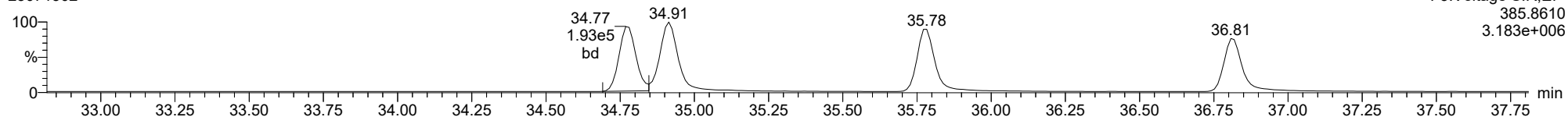
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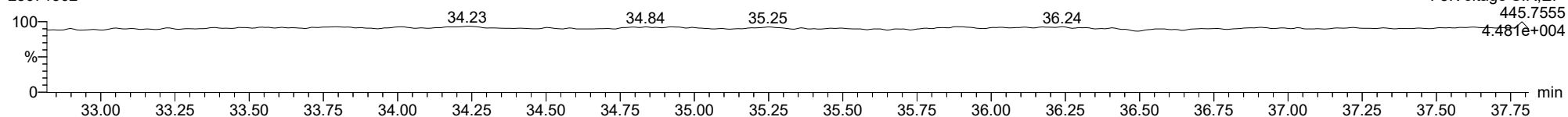
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23071302



FUNCTION3 OCDPE

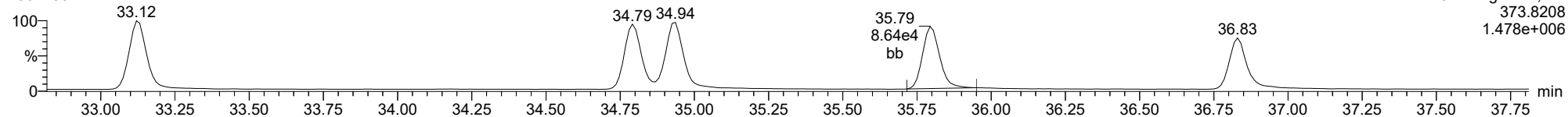
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

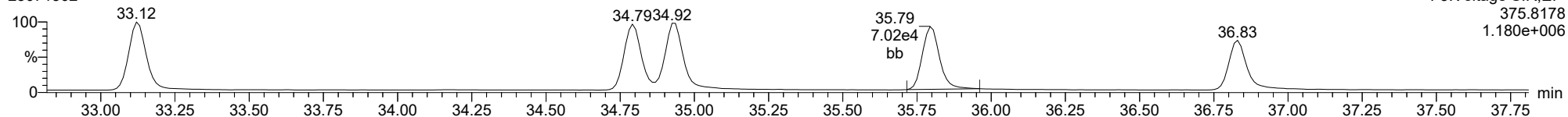
234678-HxCDF

23071302



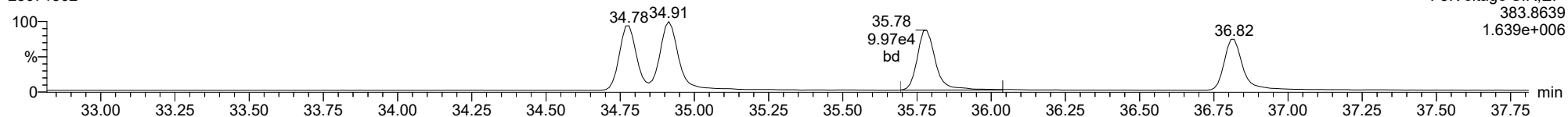
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23071302



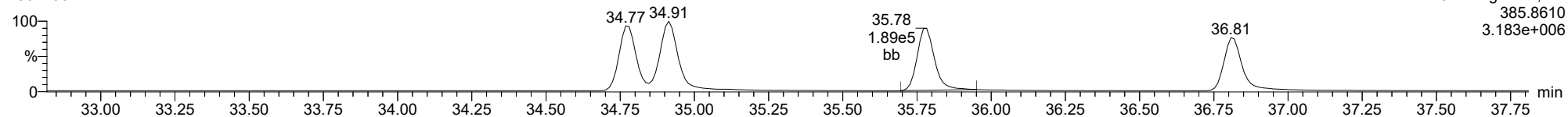
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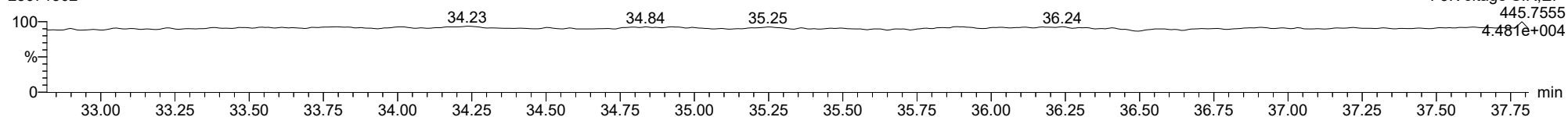
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23071302



FUNCTION3 OCDPE

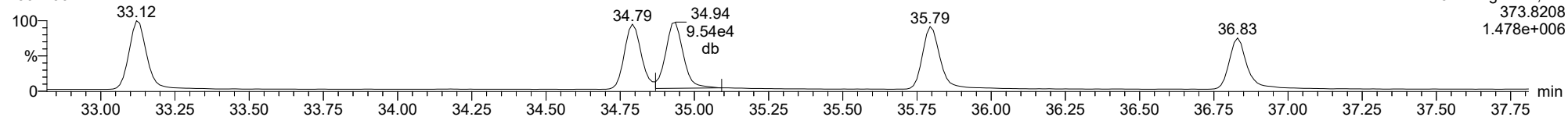
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

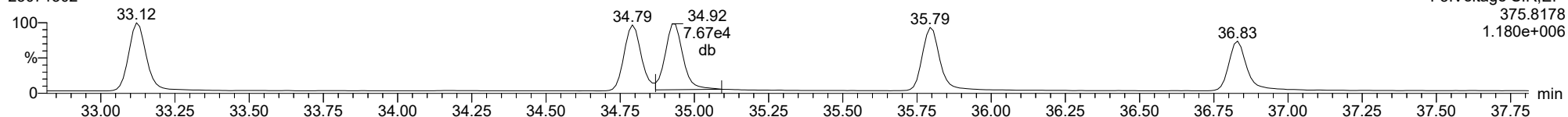
123678-HxCDF

23071302



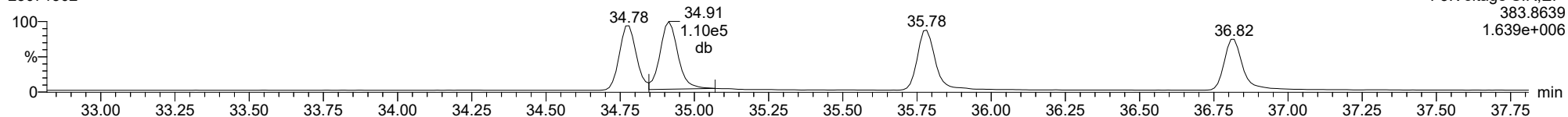
123678-HxCDF

23071302



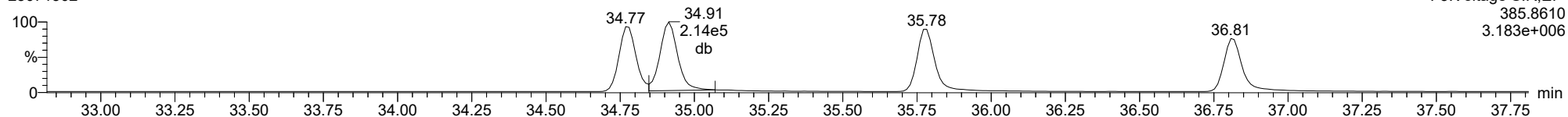
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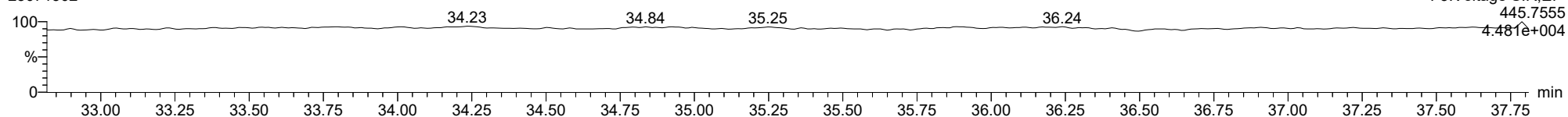
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23071302



FUNCTION3 OCDPE

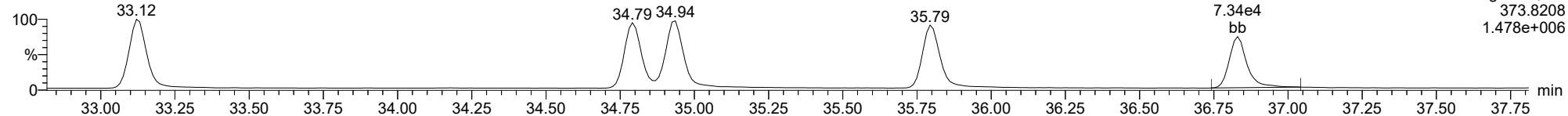
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

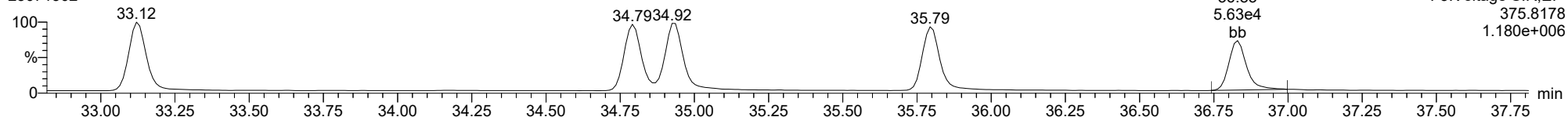
123789-HxCDF

23071302



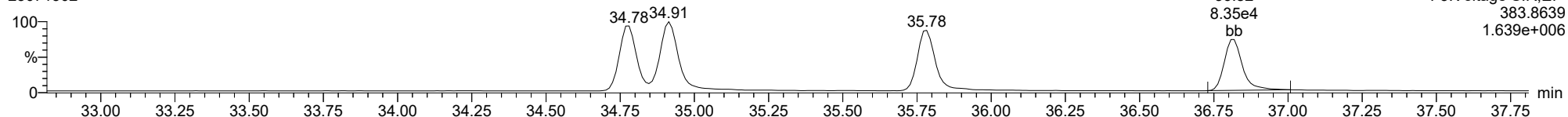
123789-HxCDF

23071302



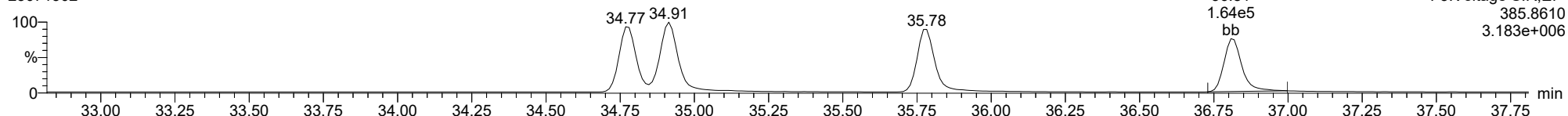
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23071302



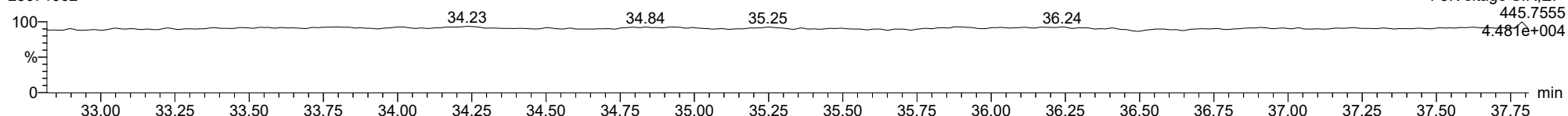
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23071302



FUNCTION3 OCDPE

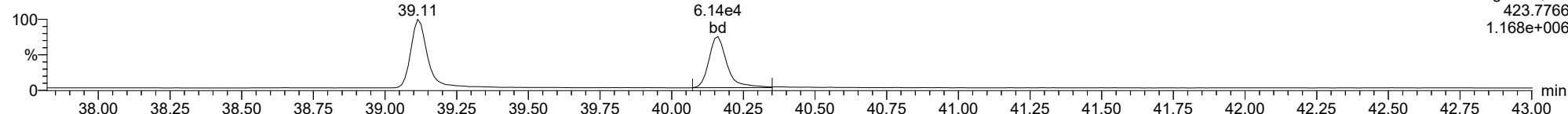
23071302



ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

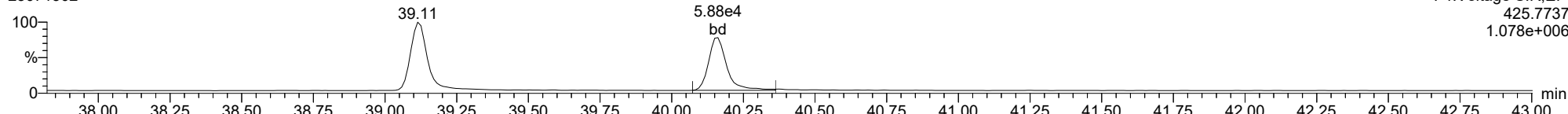
1234678-HpCDD

23071302



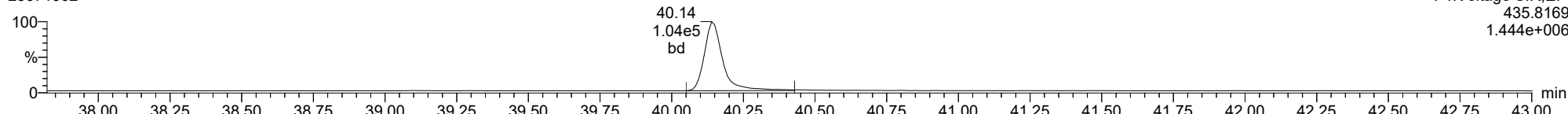
1234678-HpCDD

23071302



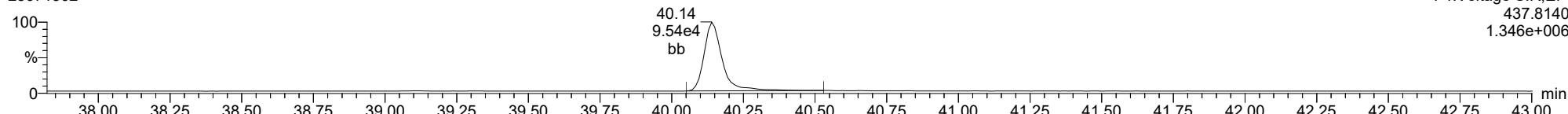
13C-1234678-HpCDD

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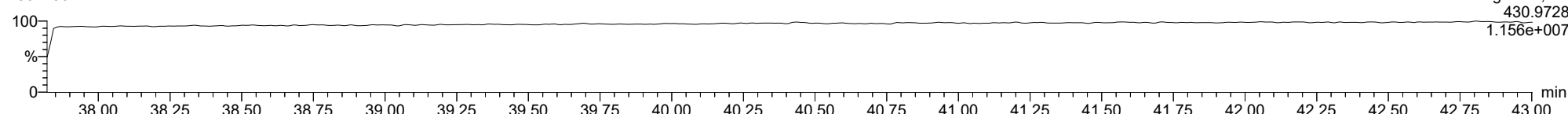
13C-1234678-HpCDD

23071302



FUNCTION4 PFK

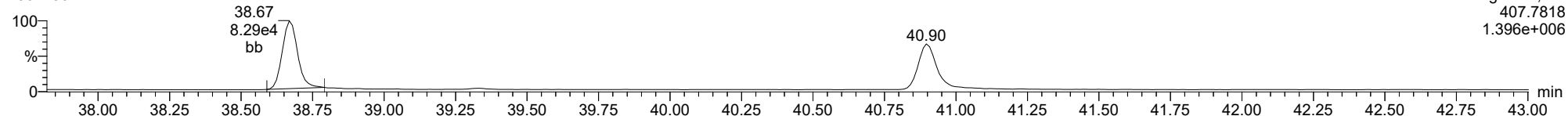
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

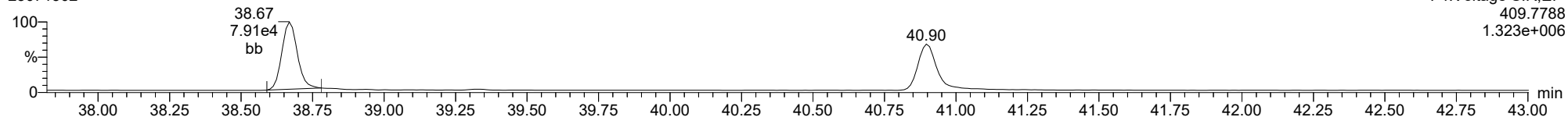
23071302



F4:Voltage SIR,El+
407.7818
1.396e+006

1234678-HpCDF

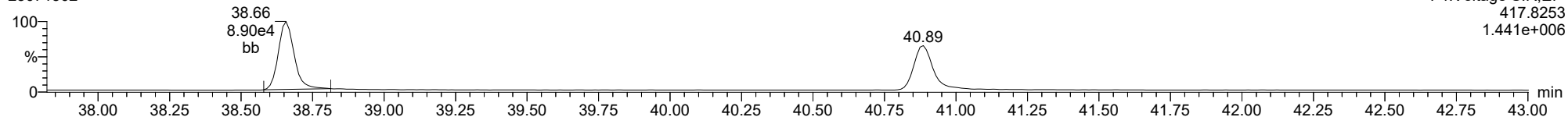
23071302



F4:Voltage SIR,El+
409.7788
1.323e+006

13C-1234678-HpCDF

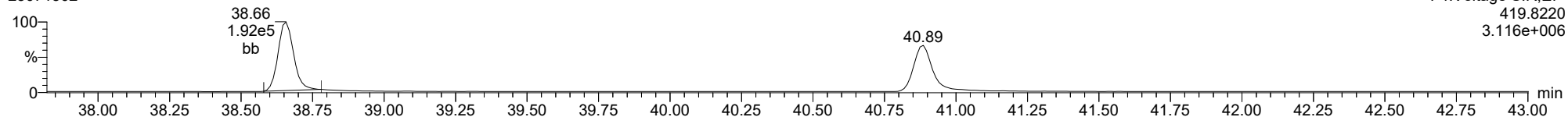
23071302



F4:Voltage SIR,El+
417.8253
1.441e+006

13C-1234678-HpCDF

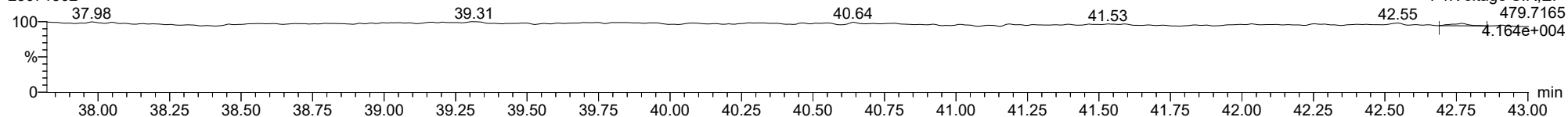
23071302



F4:Voltage SIR,El+
419.8220
3.116e+006

FUNCTION4 NCDPE

23071302

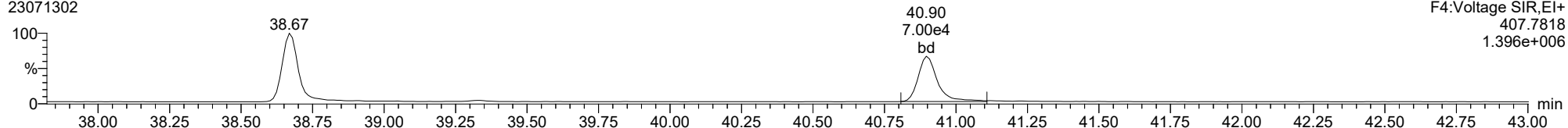


F4:Voltage SIR,El+
479.7165
4.164e+004

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

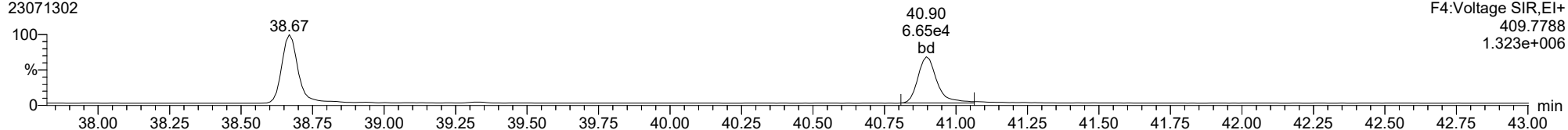
23071302



F4:Voltage SIR,EI+
407.7818
1.396e+006

1234789-HpCDF

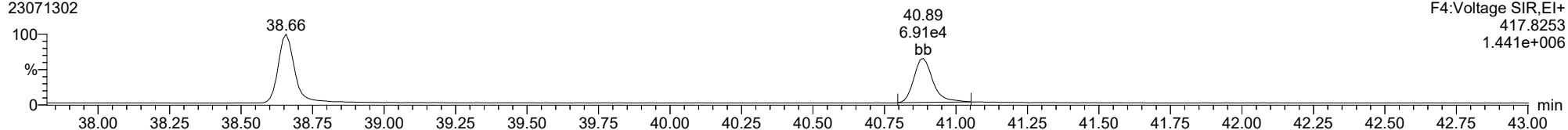
23071302



F4:Voltage SIR,EI+
409.7788
1.323e+006

13C-1234789-HpCDF

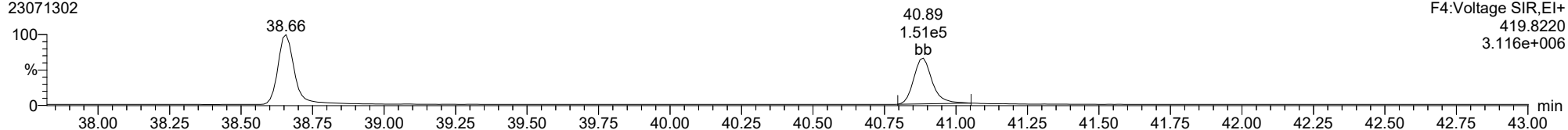
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F4:Voltage SIR,EI+
417.8253
1.441e+006

13C-1234789-HpCDF

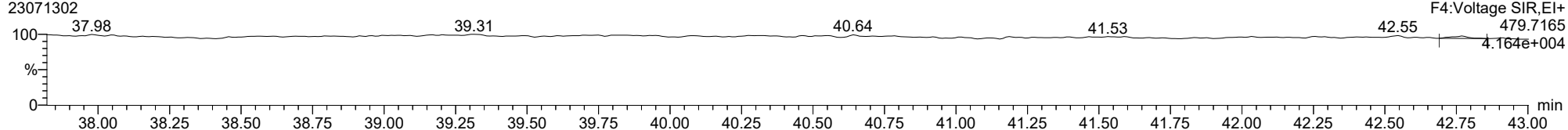
23071302



F4:Voltage SIR,EI+
419.8220
3.116e+006

FUNCTION4 NCDPE

23071302

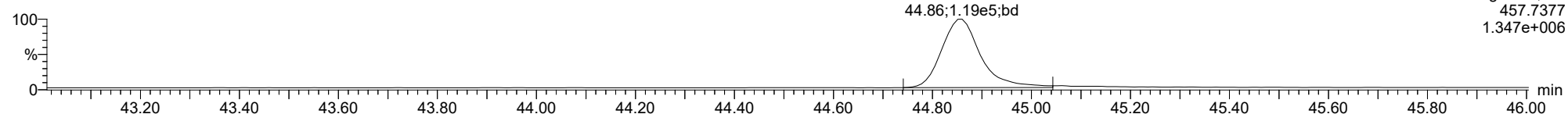


F4:Voltage SIR,EI+
479.7165
4.164e+004

ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

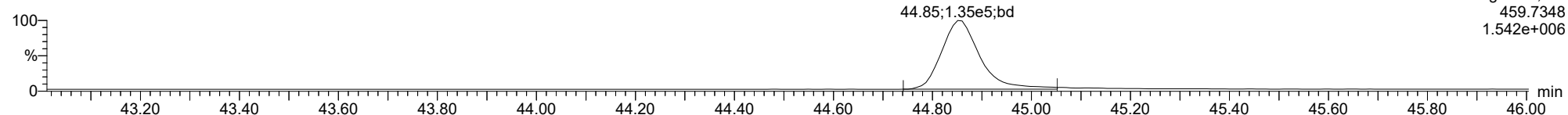
OCDD

23071302



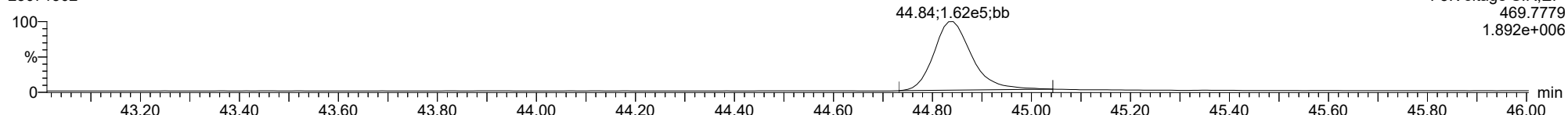
OCDD

23071302



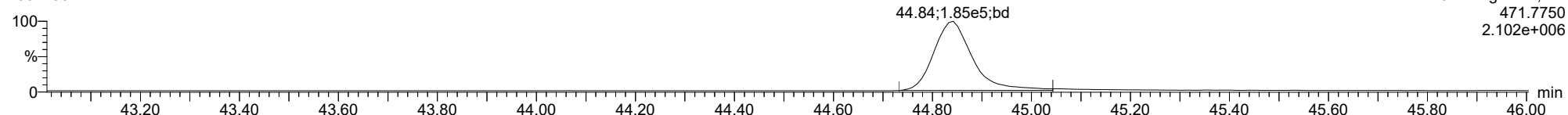
13C-OCDD

23071302



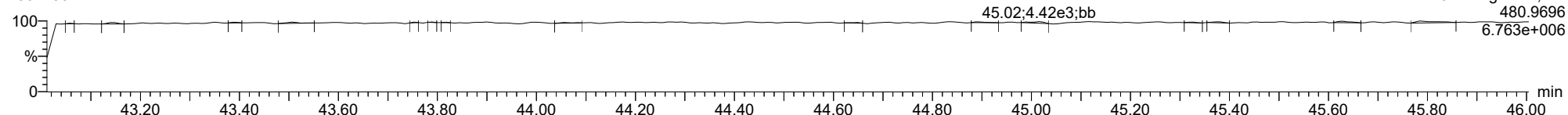
13C-OCDD

23071302



FUNCTION5 PFK

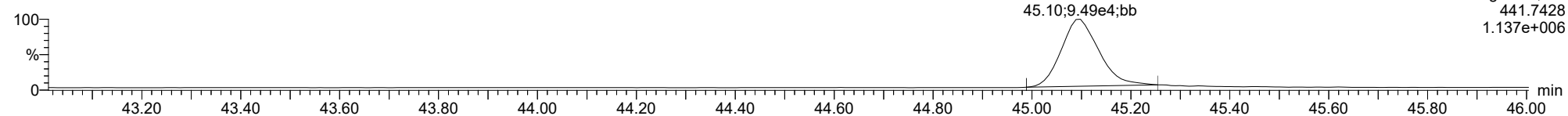
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

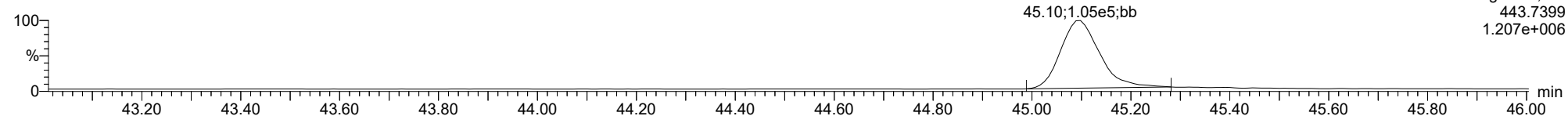
OCDF

23071302



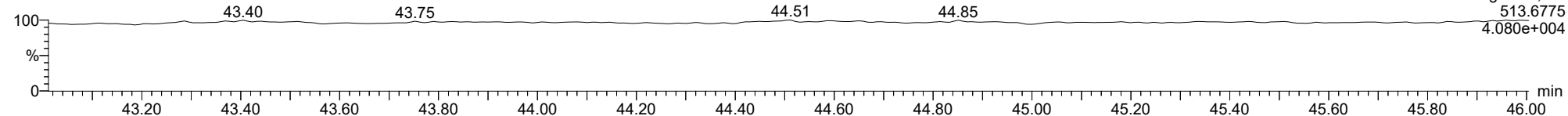
OCDF

23071302



FUNCTION5 DCDPE

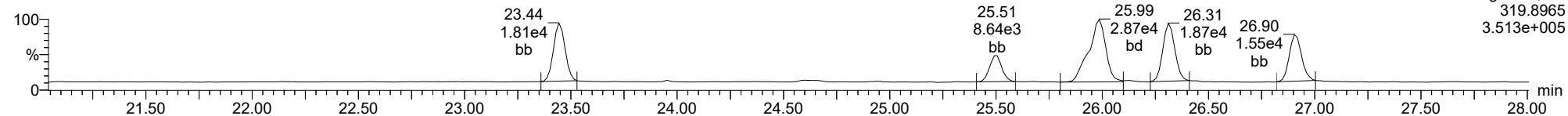
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

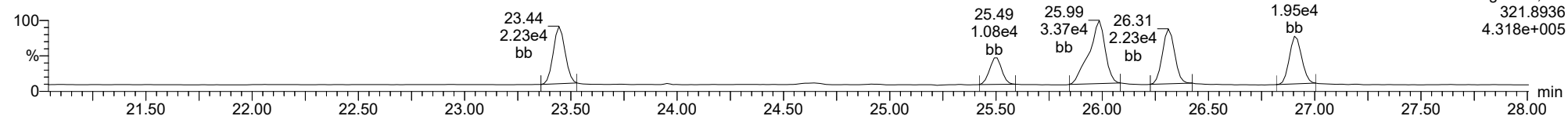
Total-tetradoxins

23071302



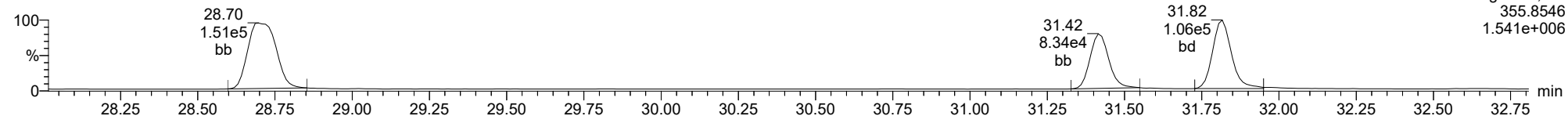
Total-tetradoxins

23071302



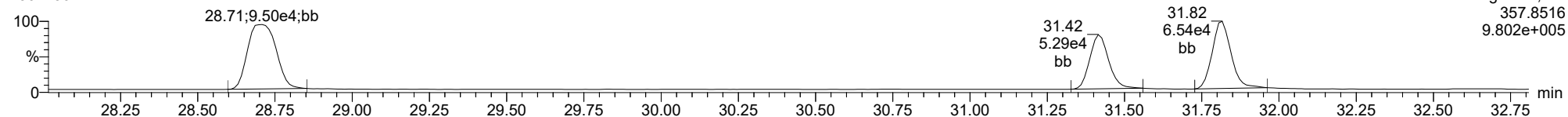
Total-pentadoxins

23071302



Total-pentadoxins

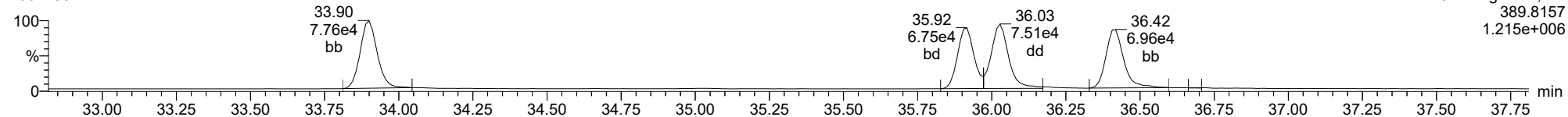
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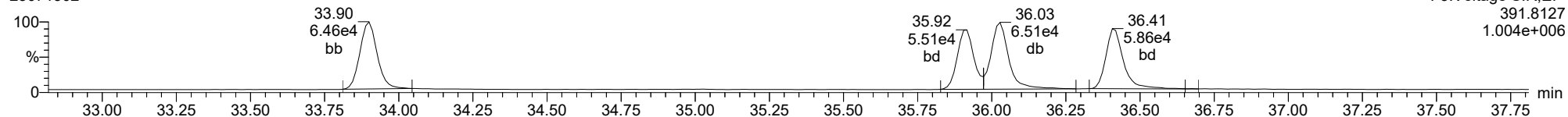
Total-hexadioxins

23071302



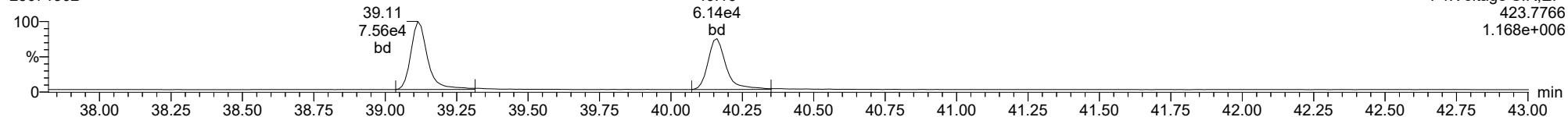
Total-hexadioxins

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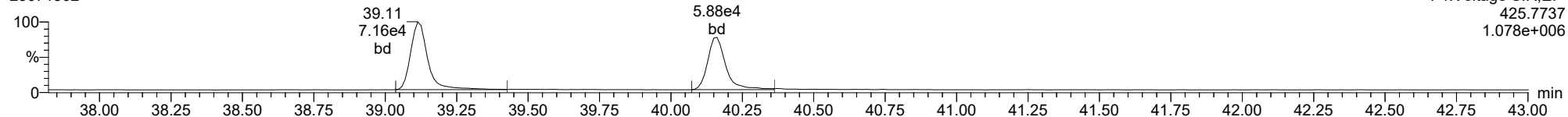
Total-heptadioxins

23071302



Total-heptadioxins

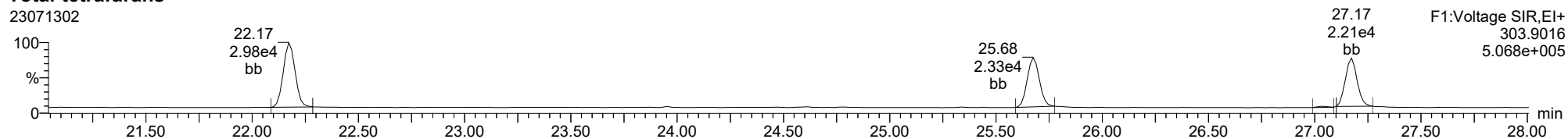
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ID: CS3A1, Name: 23071302, Date: 13-Jul-2023, Time: 10:17:21, Conditions: AUTOSPEC01, User: pk

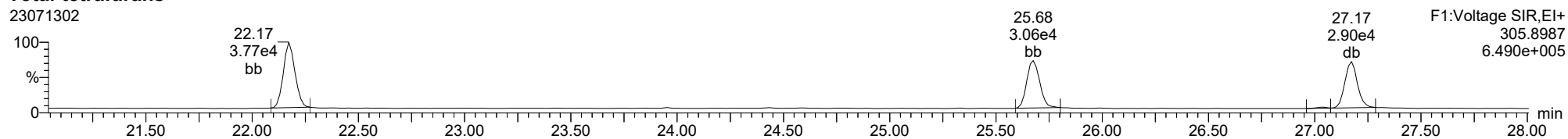
Total-tetrafurans

23071302



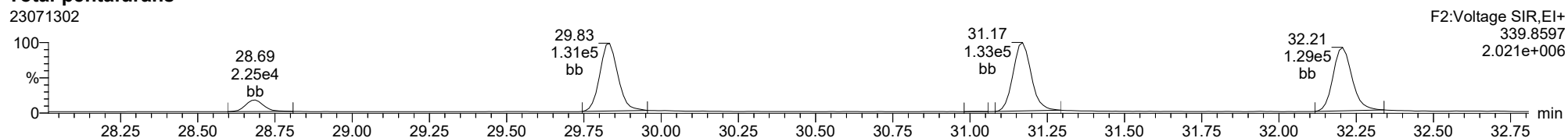
Total-tetrafurans

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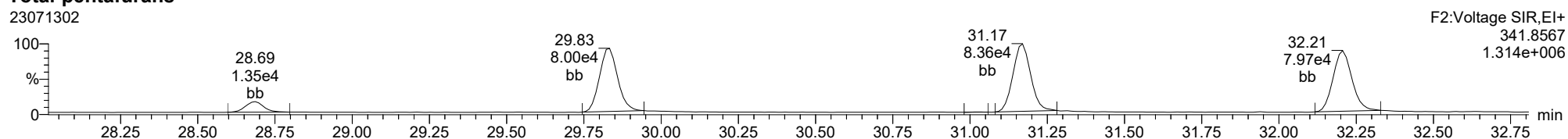
Total-pentafurans

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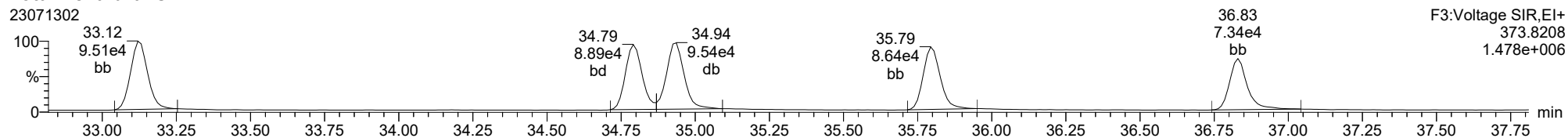
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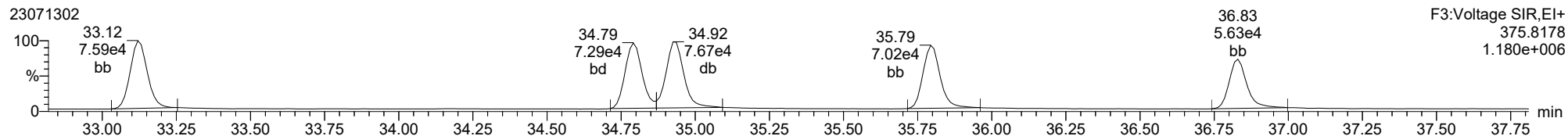


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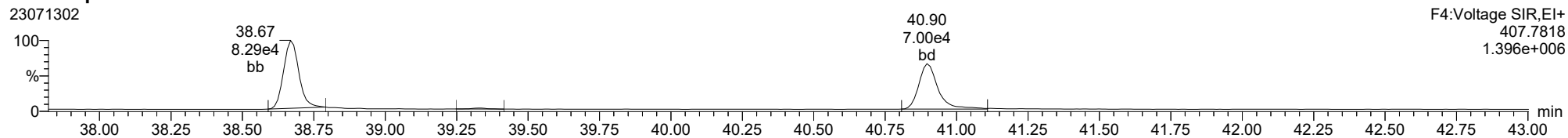
Total-hexafurans



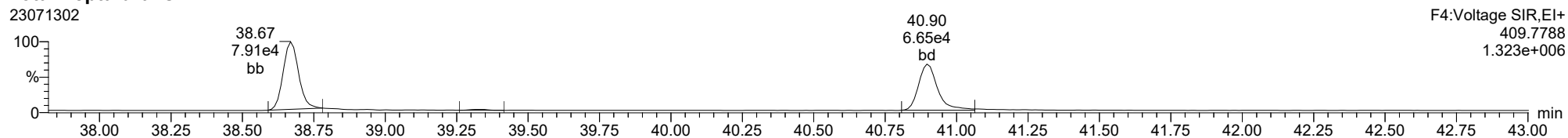
Total-hexafurans



Total-heptafurans

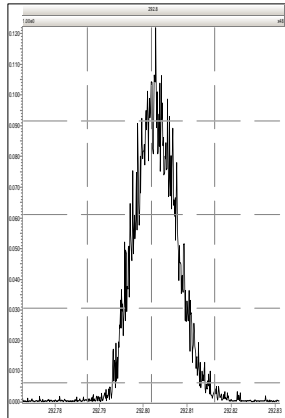


Total-heptafurans

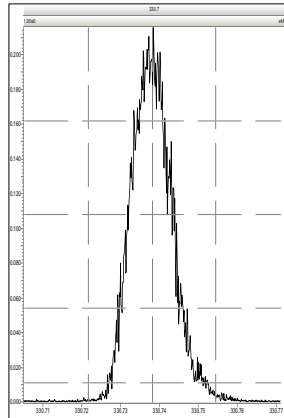


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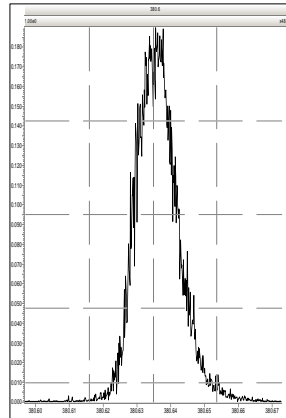
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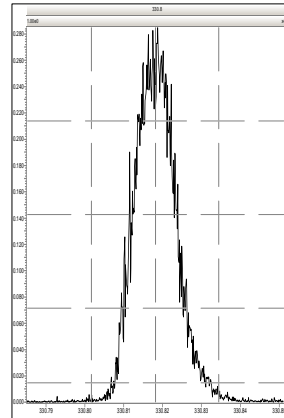
M 330.9792 R 14414



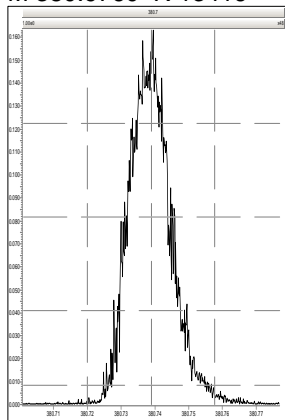
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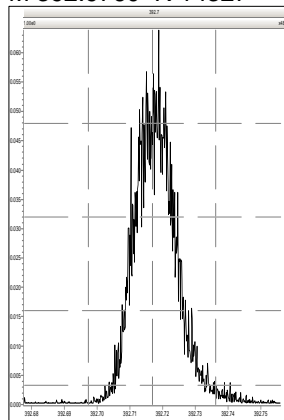
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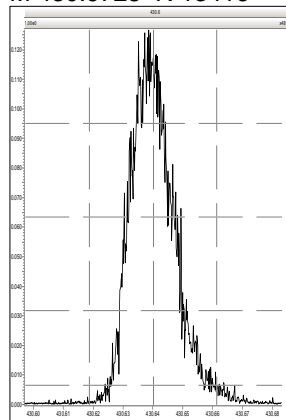
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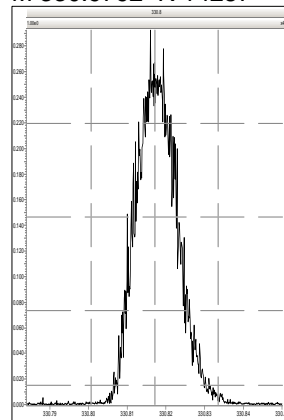
M 392.9760 R 14327



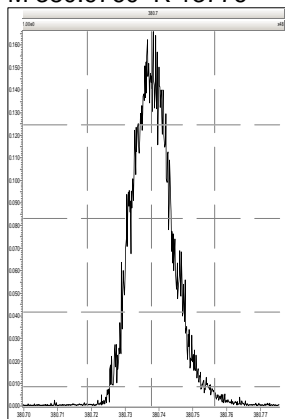
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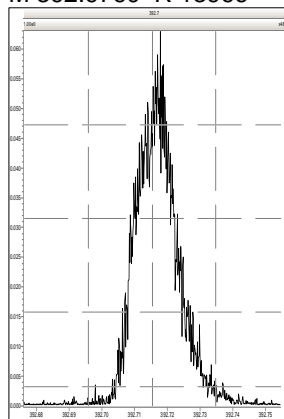
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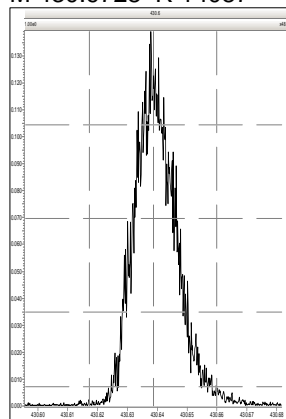
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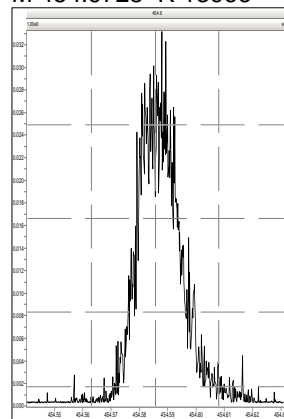
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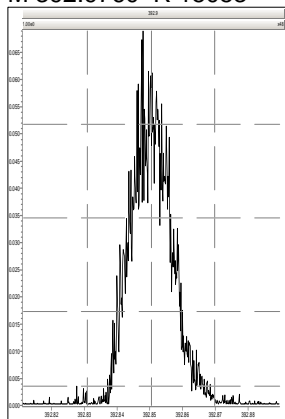
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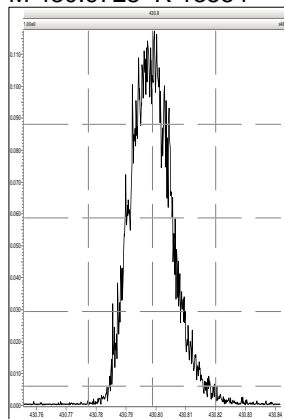
M 454.9728 R 13966



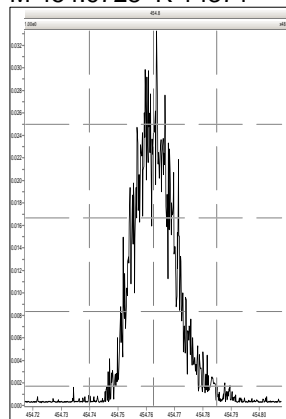
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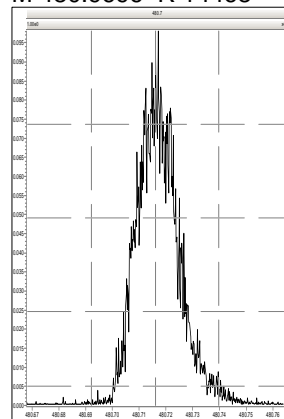
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M 454.9728 R 14371

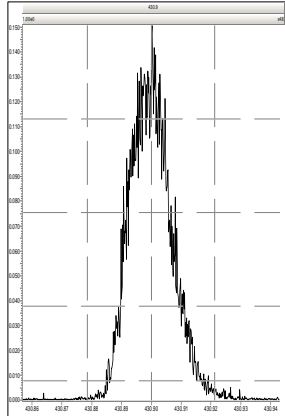


M 480.9696 R 14468

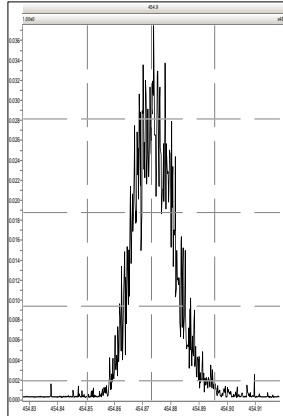


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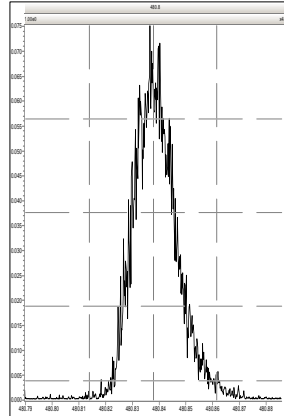
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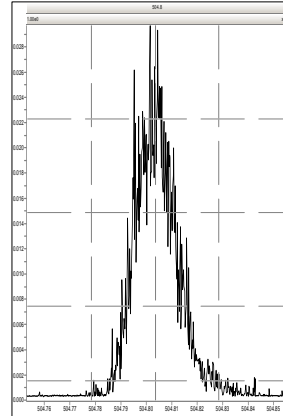
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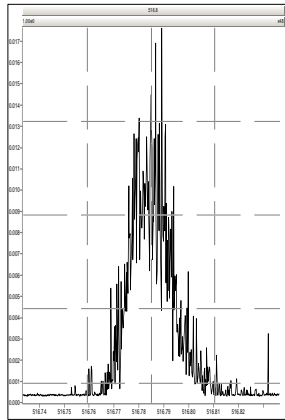
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M 504.9696 R 13928



M 516.9697 R 7183

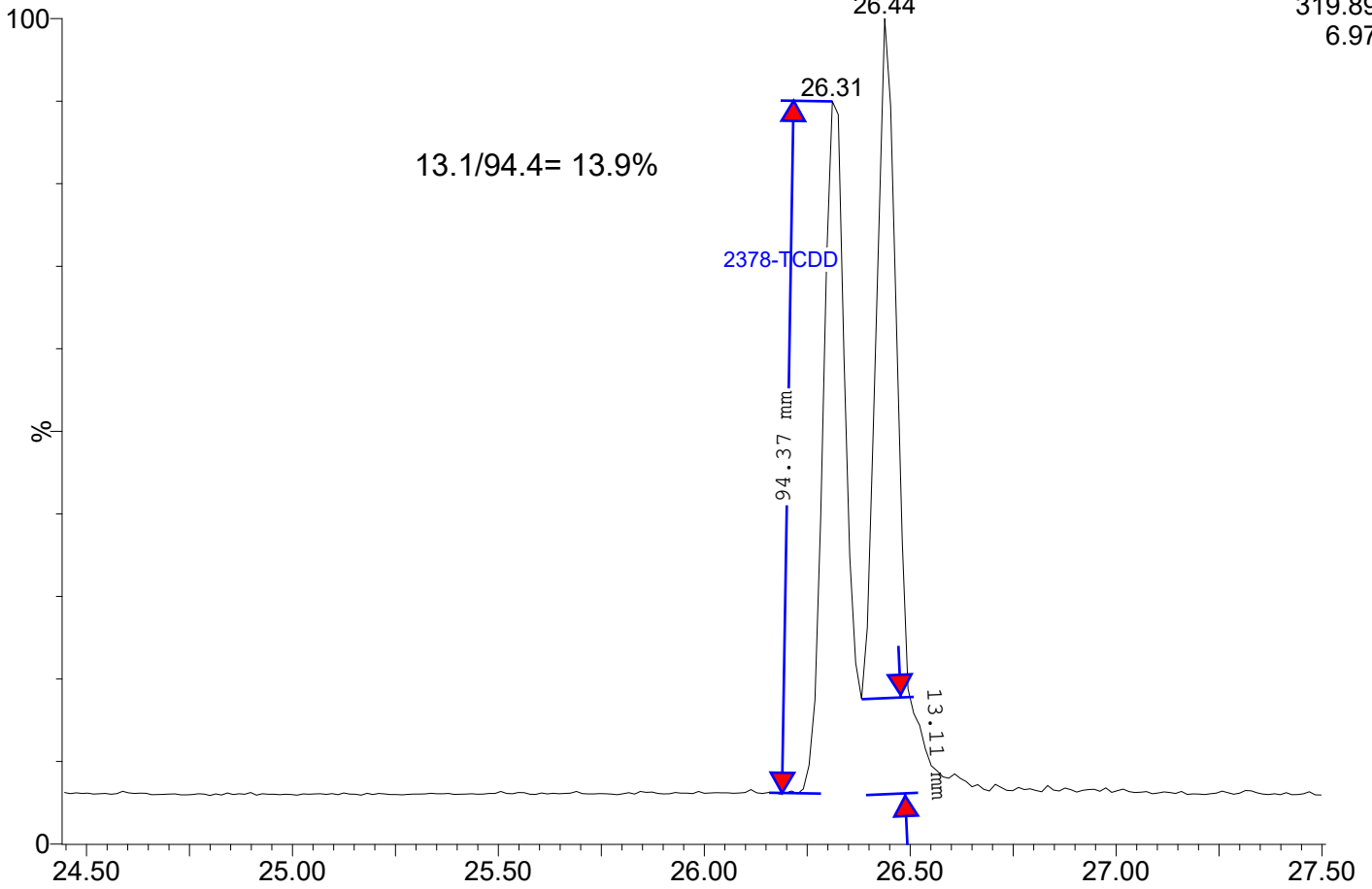


23071303

1: Voltage SIR 14 Channels EI+

319.8965

6.97e5

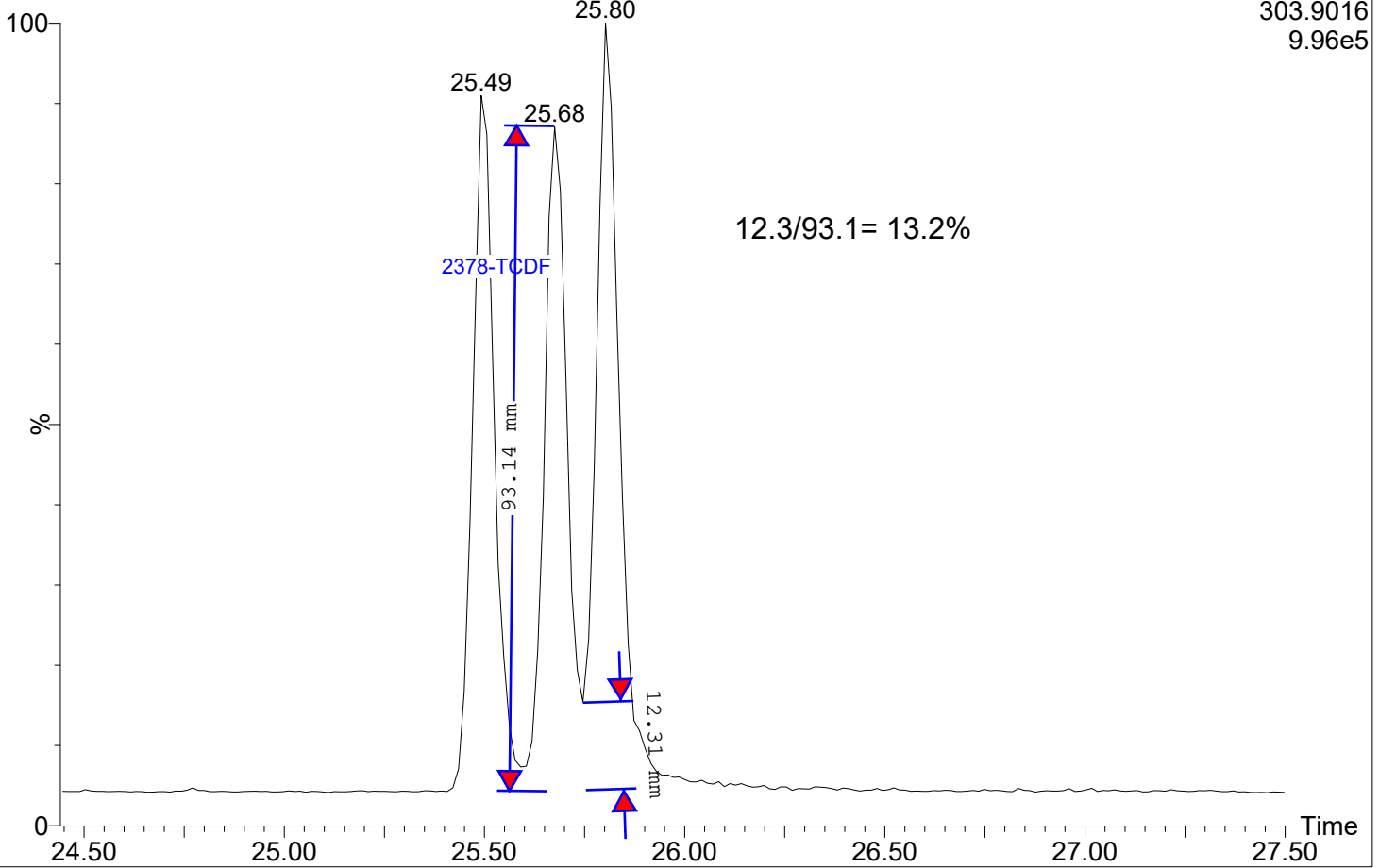


23071303

1: Voltage SIR 14 Channels EI+

303.9016

9.96e5



Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:07 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, 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					0.951		0.770	584	788								
12378-PeCDF	29.822	1.000	2.279e3	1.453e3	0.963	1.568	1.550	495	1026	3.04e4	2.11e4	61.5	20.6	NO	bb	bb	0.518
23478-PeCDF	31.170	1.001	2.470e3	1.491e3	1.072	1.656	1.550	495	1026	3.37e4	2.09e4	68.0	20.4	NO	bd	MM	0.530
123478-HxCDF	34.791	1.001	1.316e3	1.164e3	1.142	1.130	1.240	440	664	2.06e4	1.69e4	46.8	25.5	NO	bd	MM	0.500
234678-HxCDF	35.783	1.000	1.273e3	1.030e3	1.138	1.236	1.240	440	664	1.82e4	1.57e4	41.3	23.6	NO	bd	MM	0.474
123678-HxCDF	34.925	1.000	1.729e3	1.236e3	1.100	1.399	1.240	440	664	2.40e4	1.55e4	54.5	23.3	NO	db	MM	0.541
123789-HxCDF	36.830	1.001	1.140e3	9.716e2	1.066	1.174	1.240	440	664	1.59e4	1.59e4	36.3	23.9	NO	bb	bb	0.536
1234678-HpCDF	38.668	1.001	1.363e3	1.169e3	1.210	1.166	1.050	793	745	2.20e4	1.90e4	27.7	25.5	NO	bb	bb	0.494
1234789-HpCDF	40.908	1.001	9.360e2	1.040e3	1.213	0.900	1.050	793	745	1.30e4	1.61e4	16.4	21.6	NO	bb	MM	0.485
OCDF	45.098	1.006	1.628e3	1.668e3	1.391	0.976	0.890	675	696	2.07e4	2.05e4	30.7	29.5	NO	MM	bb	1.179
2378-TCDD					1.197		0.770	921	540								
12378-PeCDD	31.415	1.001	1.307e3	8.134e2	1.129	1.606	1.550	715	560	1.79e4	1.44e4	25.0	25.7	NO	bb	bb	0.491
123478-HxCDD	35.905	1.000	9.096e2	8.422e2	0.917	1.080	1.240	637	563	1.73e4	1.31e4	27.1	23.2	NO	bd	bd	0.513
123678-HxCDD	36.016	1.000	1.253e3	1.160e3	0.944	1.081	1.240	637	563	1.74e4	1.49e4	27.4	26.5	NO	MM	MM	0.576
123789-HxCDD	36.417	1.011	9.572e2	6.892e2	0.869	1.389	1.240	637	563	1.37e4	1.02e4	21.4	18.1	NO	MM	bb	0.464
1234678-HpCDD	40.150	1.000	8.537e2	7.340e2	1.237	1.163	1.050	543	577	1.37e4	1.10e4	25.3	19.1	NO	MM	bb	0.492
OCDD					1.212		0.890	953	792								
13C-2378-TCDF	25.647	1.007	4.303e5	5.375e5	1.920	0.800	0.770	1265	1392	6.08e6	7.63e6	4803.6	5483.8	NO	bb	bb	102.167
13C-12378-PeCDF	29.811	1.170	4.505e5	2.977e5	1.455	1.513	1.550	1766	2646	6.29e6	4.01e6	3559.4	1516.4	NO	bb	bd	104.174
13C-23478-PeCDF	31.148	1.223	4.266e5	2.702e5	1.363	1.579	1.550	1766	2646	5.96e6	3.85e6	3371.8	1456.3	NO	bb	bb	103.613
13C-123478-HxCDF	34.769	0.955	1.502e5	2.844e5	1.119	0.528	0.510	2095	2920	2.17e6	4.28e6	1034.3	1464.6	NO	bd	bd	97.691
13C-123678-HxCDF	34.914	0.959	1.659e5	3.329e5	1.343	0.498	0.510	2095	2920	2.27e6	4.42e6	1081.7	1512.6	NO	db	db	93.408
13C-234678-HxCDF	35.771	0.983	1.441e5	2.833e5	1.113	0.509	0.510	2095	2920	2.08e6	3.98e6	990.6	1361.9	NO	bb	bb	96.593
13C-123789-HxCDF	36.807	1.011	1.246e5	2.449e5	0.959	0.509	0.510	2095	2920	1.68e6	3.34e6	802.9	1143.7	NO	bb	bb	96.924
13C-1234678-HpCDF	38.646	1.062	1.317e5	2.921e5	1.058	0.451	0.440	1341	2744	1.97e6	4.38e6	1465.1	1595.1	NO	bb	bb	100.690
13C-1234789-HpCDF	40.874	1.123	1.056e5	2.302e5	0.809	0.459	0.440	1341	2744	1.27e6	2.79e6	943.3	1018.1	NO	bb	bb	104.459
13C-1234-TCDD	25.478	0.000	2.178e5	2.756e5	1.000	0.790	0.770	1584	1056	3.33e6	4.16e6	2099.8	3934.2	NO	bb	bb	100.000
13C-2378-TCDD	26.283	1.032	2.447e5	3.124e5	1.104	0.783	0.770	1584	1056	3.46e6	4.42e6	2181.2	4179.2	NO	bb	bb	102.232
13C-12378-PeCDD	31.393	1.232	2.348e5	1.478e5	0.770	1.588	1.550	1124	881	3.32e6	2.09e6	2950.9	2368.9	NO	bb	bb	100.655
13C-123478-HxCDD	35.894	0.986	2.078e5	1.647e5	0.959	1.261	1.240	2149	1644	3.19e6	2.54e6	1483.6	1542.9	NO	bd	bd	97.658
13C-123678-HxCDD	36.005	0.989	2.466e5	1.968e5	1.120	1.253	1.240	2149	1644	3.29e6	2.67e6	1531.5	1625.5	NO	db	db	99.555
13C-1234678-HpCDD	40.139	1.103	1.295e5	1.312e5	0.640	0.987	1.050	1218	1278	1.73e6	1.61e6	1418.6	1257.7	NO	bb	bb	102.393
13C-OCDD	44.833	1.232	1.920e5	2.100e5	0.555	0.915	0.890	1707	2033	1.98e6	2.14e6	1157.3	1052.8	NO	bd	bd	182.032
13C-123789-HxCDD	36.395	0.000	2.179e5	1.798e5	1.000	1.212	1.240	2149	1644	3.07e6	2.49e6	1429.2	1516.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.325	1.033	5.884e2		1.129			1154		7.79e3		6.7			bb		0.106

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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.201		0.770	584	788								
1289-TCDF					0.950		0.770	584	788								
13468-PECDF					1.142		1.550	536	787								
12389-PECDF					0.917		1.550	495	1026								
123468-HXCDF					1.332		1.240	440	664								
1368-TCDD					1.148		0.770	921	540								
1289-TCDD					0.955		0.770	921	540								
12479-PECDD					2.043		1.550	715	560								
12389-PECDD					1.326		1.550	715	560								
124679-HXCDD					1.104		1.240	637	563								
1234679-HPCDD					1.554		1.050	543	577								
Total-tetrafurans			0.000e0		1.034			584		0.00e0							
Total-penta1			0.000e0					536		0.00e0							
Total-pentafurans			4.749e3		0.984			495		6.41e4							1.048
Total-hexafurans			5.459e3		1.155			440		7.87e4							2.050
Total-heptafurans			2.299e3		1.211			793		3.50e4							0.979
Total-Furans			1.414e4		1.119			584		1.98e5							5.257
Total-tetradoxins			0.000e0		1.100			921		0.00e0							
Total-pentadoxins			1.307e3		1.499			715		1.79e4							0.491
Total-hexadoxins			3.120e3		0.958			637		4.84e4							1.553
Total-heptadoxins			8.537e2		1.396			543		1.37e4							0.492
Total-Dioxins			5.280e3		1.203			921		8.00e4							2.536
Total-TEQ			1.942e4					921		2.78e5							7.793
FUNCTION1 PFK			3.671e4					255547		1.26e6							
FUNCTION2 PFK			1.513e5					130349		4.56e6							0.000
FUNCTION3 PFK			6.752e5					226746		1.79e7							0.000
FUNCTION4 PFK			4.699e4					194561		1.34e6							
FUNCTION5 PFK			6.672e4					130795		3.06e6							
FUNCTION1 HXCD...			5.297e2					580		7.82e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.866e2					720		2.09e3							0.000
FUNCTION3 OCDPE			1.034e2					492		1.59e3							0.000
FUNCTION4 NCDPE			0.000e0					585		0.00e0							
FUNCTION5 DCDPE			0.000e0					467		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42

Calibration: 27 Jul 2023 11:25:35

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TF

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

PP

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

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.17	2.470e3	1.491e3	1.072	1.66	1.55	68.0	YES	NO	bd	MM	0.530
2	12378-PeCDF	29.82	2.279e3	1.453e3	0.963	1.57	1.55	61.5	YES	NO	bb	bb	0.518

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.83	1.140e3	9.716e2	1.066	1.17	1.24	36.3	YES	NO	bb	bb	0.536
2	234678-HxCDF	35.78	1.273e3	1.030e3	1.138	1.24	1.24	41.3	YES	NO	bd	MM	0.474
3	123678-HxCDF	34.92	1.729e3	1.236e3	1.100	1.40	1.24	54.5	YES	NO	db	MM	0.541
4	123478-HxCDF	34.79	1.316e3	1.164e3	1.142	1.13	1.24	46.8	YES	NO	bd	MM	0.500

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.91	9.360e2	1.040e3	1.213	0.90	1.05	16.4	YES	NO	bb	MM	0.485
2	1234678-HpCDF	38.67	1.363e3	1.169e3	1.210	1.17	1.05	27.7	YES	NO	bb	bb	0.494

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.17	2.470e3	1.491e3	1.072	1.66	1.55	68.0	YES	NO	bd	MM	0.530
2	12378-PeCDF	29.82	2.279e3	1.453e3	0.963	1.57	1.55	61.5	YES	NO	bb	bb	0.518
3	123789-HxCDF	36.83	1.140e3	9.716e2	1.066	1.17	1.24	36.3	YES	NO	bb	bb	0.536
4	234678-HxCDF	35.78	1.273e3	1.030e3	1.138	1.24	1.24	41.3	YES	NO	bd	MM	0.474
5	123678-HxCDF	34.92	1.729e3	1.236e3	1.100	1.40	1.24	54.5	YES	NO	db	MM	0.541
6	123478-HxCDF	34.79	1.316e3	1.164e3	1.142	1.13	1.24	46.8	YES	NO	bd	MM	0.500
7	1234789-HpCDF	40.91	9.360e2	1.040e3	1.213	0.90	1.05	16.4	YES	NO	bb	MM	0.485
8	1234678-HpCDF	38.67	1.363e3	1.169e3	1.210	1.17	1.05	27.7	YES	NO	bb	bb	0.494
9	OCDF	45.10	1.628e3	1.668e3	1.391	0.98	0.89	30.7	YES	NO	MM	bb	1.179

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	31.42	1.307e3	8.134e2	1.129	1.61	1.55	25.0	YES	NO	bb	bb	0.491

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.02	1.253e3	1.160e3	0.944	1.08	1.24	27.4	YES	NO	MM	MM	0.576
2	123478-HxCDD	35.90	9.096e2	8.422e2	0.917	1.08	1.24	27.1	YES	NO	bd	bd	0.513
3	123789-HxCDD	36.42	9.572e2	6.892e2	0.869	1.39	1.24	21.4	YES	NO	MM	bb	0.464

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.15	8.537e2	7.340e2	1.237	1.16	1.05	25.3	YES	NO	MM	bb	0.492

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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	123678-HxCDD	36.02	1.253e3	1.160e3	0.944	1.08	1.24	27.4	YES	NO	MM	MM	0.576
2	123478-HxCDD	35.90	9.096e2	8.422e2	0.917	1.08	1.24	27.1	YES	NO	bd	bd	0.513
3	12378-PeCDD	31.42	1.307e3	8.134e2	1.129	1.61	1.55	25.0	YES	NO	bb	bb	0.491
4	1234678-HpCDD	40.15	8.537e2	7.340e2	1.237	1.16	1.05	25.3	YES	NO	MM	bb	0.492
5	123789-HxCDD	36.42	9.572e2	6.892e2	0.869	1.39	1.24	21.4	YES	NO	MM	bb	0.464

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.17	2.470e3	1.491e3	1.072	1.66	1.55	68.0	YES	NO	bd	MM	0.530
2	12378-PeCDF	29.82	2.279e3	1.453e3	0.963	1.57	1.55	61.5	YES	NO	bb	bb	0.518
3	123789-HxCDF	36.83	1.140e3	9.716e2	1.066	1.17	1.24	36.3	YES	NO	bb	bb	0.536
4	234678-HxCDF	35.78	1.273e3	1.030e3	1.138	1.24	1.24	41.3	YES	NO	bd	MM	0.474
5	123678-HxCDF	34.92	1.729e3	1.236e3	1.100	1.40	1.24	54.5	YES	NO	db	MM	0.541
6	123478-HxCDF	34.79	1.316e3	1.164e3	1.142	1.13	1.24	46.8	YES	NO	bd	MM	0.500
7	1234789-HpCDF	40.91	9.360e2	1.040e3	1.213	0.90	1.05	16.4	YES	NO	bb	MM	0.485
8	1234678-HpCDF	38.67	1.363e3	1.169e3	1.210	1.17	1.05	27.7	YES	NO	bb	bb	0.494
9	OCDF	45.10	1.628e3	1.668e3	1.391	0.98	0.89	30.7	YES	NO	MM	bb	1.179
10	123678-HxCDD	36.02	1.253e3	1.160e3	0.944	1.08	1.24	27.4	YES	NO	MM	MM	0.576
11	123478-HxCDD	35.90	9.096e2	8.422e2	0.917	1.08	1.24	27.1	YES	NO	bd	bd	0.513
12	12378-PeCDD	31.42	1.307e3	8.134e2	1.129	1.61	1.55	25.0	YES	NO	bb	bb	0.491
13	1234678-HpCDD	40.15	8.537e2	7.340e2	1.237	1.16	1.05	25.3	YES	NO	MM	bb	0.492
14	123789-HxCDD	36.42	9.572e2	6.892e2	0.869	1.39	1.24	21.4	YES	NO	MM	bb	0.464

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.47	1.292e4					1.5	NO		bb		
2	FUNCTION1 PFK	24.59	2.577e3					0.7	NO		bb		
3	FUNCTION1 PFK	23.18	8.315e3					0.9	NO		bb		
4	FUNCTION1 PFK	21.47	1.290e4					1.8	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	28.51	3.425e3					1.0	NO		bb		0.000
2	FUNCTION2 PFK	28.25	3.250e3					0.9	NO		db		0.000
3	FUNCTION2 PFK	28.14	1.447e4					2.2	NO		bd		0.000
4	FUNCTION2 PFK	31.89	4.632e3					1.2	NO		bb		0.000
5	FUNCTION2 PFK	31.64	1.611e3					0.7	NO		bb		0.000
6	FUNCTION2 PFK	31.53	3.853e3					1.2	NO		bb		0.000
7	FUNCTION2 PFK	31.30	2.233e3					0.9	NO		bb		0.000
8	FUNCTION2 PFK	31.03	1.459e4					1.4	NO		bb		0.000
9	FUNCTION2 PFK	30.85	3.130e3					1.1	NO		bb		0.000
10	FUNCTION2 PFK	30.72	6.082e3					1.4	NO		bb		0.000
11	FUNCTION2 PFK	30.62	5.075e3					1.4	NO		db		0.000
12	FUNCTION2 PFK	30.58	5.157e3					1.5	NO		bd		0.000
13	FUNCTION2 PFK	30.47	1.018e4					1.9	NO		db		0.000
14	FUNCTION2 PFK	30.42	6.216e3					1.6	NO		bd		0.000
15	FUNCTION2 PFK	30.12	1.363e3					0.6	NO		bb		0.000
16	FUNCTION2 PFK	29.93	7.141e3					1.3	NO		bb		0.000
17	FUNCTION2 PFK	29.83	4.096e3					1.3	NO		bb		0.000
18	FUNCTION2 PFK	29.54	6.241e3					1.2	NO		bb		0.000
19	FUNCTION2 PFK	29.44	1.375e4					2.3	NO		bb		0.000
20	FUNCTION2 PFK	32.61	2.143e3					0.9	NO		bb		0.000
21	FUNCTION2 PFK	32.52	2.276e3					0.9	NO		bb		0.000
22	FUNCTION2 PFK	32.41	6.639e3					1.8	NO		bb		0.000
23	FUNCTION2 PFK	32.32	4.710e3					1.4	NO		db		0.000
24	FUNCTION2 PFK	32.27	9.836e3					2.1	NO		bd		0.000
25	FUNCTION2 PFK	32.07	2.406e3					1.0	NO		bb		0.000
26	FUNCTION2 PFK	31.95	6.745e3					1.8	NO		bb		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.53	1.435e3					0.4	NO		bb		0.000
2	FUNCTION3 PFK	33.44	5.921e2					0.2	NO		bb		0.000
3	FUNCTION3 PFK	33.40	4.388e3					0.9	NO		bb		0.000
4	FUNCTION3 PFK	33.34	4.006e3					0.7	NO		bb		0.000
5	FUNCTION3 PFK	33.18	1.702e4					1.5	NO		db		0.000
6	FUNCTION3 PFK	33.10	1.968e4					1.8	NO		bd		0.000
7	FUNCTION3 PFK	32.93	8.060e3					1.3	NO		db		0.000
8	FUNCTION3 PFK	32.90	4.502e3					0.8	NO		bd		0.000
9	FUNCTION3 PFK	34.85	1.208e4					1.2	NO		db		0.000
10	FUNCTION3 PFK	34.79	1.947e4					1.7	NO		dd		0.000
11	FUNCTION3 PFK	34.72	1.265e4					1.7	NO		dd		0.000
12	FUNCTION3 PFK	34.63	1.413e4					1.3	NO		dd		0.000
13	FUNCTION3 PFK	34.58	1.769e4					1.8	NO		dd		0.000
14	FUNCTION3 PFK	34.49	3.173e4					2.3	NO		dd		0.000
15	FUNCTION3 PFK	34.40	1.147e4					1.4	NO		bd		0.000
16	FUNCTION3 PFK	34.24	1.115e4					1.3	NO		db		0.000
17	FUNCTION3 PFK	34.20	7.413e3					1.1	NO		dd		0.000
18	FUNCTION3 PFK	34.16	1.084e4					1.5	NO		dd		0.000
19	FUNCTION3 PFK	34.07	3.451e4					4.7	YES		bd		0.000
20	FUNCTION3 PFK	33.87	5.862e3					1.2	NO		bb		0.000
21	FUNCTION3 PFK	33.82	3.770e3					0.8	NO		bb		0.000
22	FUNCTION3 PFK	33.78	5.934e3					0.7	NO		db		0.000
23	FUNCTION3 PFK	33.71	4.027e3					0.6	NO		bd		0.000
24	FUNCTION3 PFK	33.65	3.489e3					0.6	NO		bb		0.000
25	FUNCTION3 PFK	36.07	8.862e3					0.9	NO		bd		0.000
26	FUNCTION3 PFK	36.02	1.427e3					0.6	NO		bb		0.000
27	FUNCTION3 PFK	35.94	1.491e3					0.6	NO		bb		0.000
28	FUNCTION3 PFK	35.82	3.781e3					0.5	NO		bb		0.000
29	FUNCTION3 PFK	35.72	4.638e3					0.7	NO		bb		0.000
30	FUNCTION3 PFK	35.62	2.499e4					1.5	NO		db		0.000
31	FUNCTION3 PFK	35.53	1.862e4					2.8	NO		dd		0.000
32	FUNCTION3 PFK	35.49	1.371e4					2.4	NO		dd		0.000
33	FUNCTION3 PFK	35.44	2.282e4					2.3	NO		dd		0.000
34	FUNCTION3 PFK	35.39	1.645e4					2.1	NO		dd		0.000
35	FUNCTION3 PFK	35.33	1.501e4					2.0	NO		dd		0.000
36	FUNCTION3 PFK	35.25	2.745e4					2.2	NO		dd		0.000
37	FUNCTION3 PFK	35.19	2.285e4					1.9	NO		bd		0.000

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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	35.10	1.396e4					1.4	NO		db		0.000
39	FUNCTION3 PFK	35.03	6.382e3					0.7	NO		bd		0.000
40	FUNCTION3 PFK	34.92	1.398e3					0.6	NO		bb		0.000
41	FUNCTION3 PFK	37.58	1.099e4					1.5	NO		dd		0.000
42	FUNCTION3 PFK	37.50	2.682e4					1.9	NO		dd		0.000
43	FUNCTION3 PFK	37.45	1.541e4					1.9	NO		bd		0.000
44	FUNCTION3 PFK	37.34	1.823e4					1.6	NO		db		0.000
45	FUNCTION3 PFK	37.30	1.446e3					0.6	NO		bd		0.000
46	FUNCTION3 PFK	37.16	1.983e3					0.4	NO		bb		0.000
47	FUNCTION3 PFK	37.12	3.030e3					0.6	NO		bb		0.000
48	FUNCTION3 PFK	37.00	1.017e4					1.2	NO		bb		0.000
49	FUNCTION3 PFK	36.65	4.029e3					0.6	NO		bb		0.000
50	FUNCTION3 PFK	36.58	5.907e3					0.7	NO		db		0.000
51	FUNCTION3 PFK	36.52	2.945e3					0.8	NO		bd		0.000
52	FUNCTION3 PFK	36.48	5.883e3					0.5	NO		db		0.000
53	FUNCTION3 PFK	36.42	1.012e4					1.6	NO		dd		0.000
54	FUNCTION3 PFK	36.36	6.824e3					1.1	NO		bd		0.000
55	FUNCTION3 PFK	36.27	1.118e4					1.5	NO		bb		0.000
56	FUNCTION3 PFK	36.13	5.631e3					0.9	NO		db		0.000
57	FUNCTION3 PFK	37.77	2.163e4					2.2	NO		bb		0.000
58	FUNCTION3 PFK	37.67	2.927e4					2.2	NO		db		0.000
59	FUNCTION3 PFK	37.62	1.399e4					2.3	NO		dd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.04	4.699e4					6.9	YES		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:07 Pacific Daylight Time

ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, 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	44.71	2.913e3					1.3	NO		bb		
2	FUNCTION5 PFK	44.66	1.562e3					0.8	NO		bb		
3	FUNCTION5 PFK	44.59	1.219e3					0.7	NO		bb		
4	FUNCTION5 PFK	44.48	2.593e3					1.0	NO		bb		
5	FUNCTION5 PFK	44.16	2.957e3					1.0	NO		bb		
6	FUNCTION5 PFK	43.92	5.875e2					0.5	NO		bb		
7	FUNCTION5 PFK	43.89	1.215e3					0.6	NO		bb		
8	FUNCTION5 PFK	43.76	3.823e3					1.3	NO		bb		
9	FUNCTION5 PFK	43.35	2.239e3					1.0	NO		bb		
10	FUNCTION5 PFK	43.13	2.571e3					0.9	NO		bb		
11	FUNCTION5 PFK	45.91	6.036e3					1.8	NO		db		
12	FUNCTION5 PFK	45.88	4.193e3					1.7	NO		dd		
13	FUNCTION5 PFK	45.81	5.214e3					1.3	NO		bd		
14	FUNCTION5 PFK	45.71	7.291e3					1.4	NO		db		
15	FUNCTION5 PFK	45.66	2.865e3					1.1	NO		bd		
16	FUNCTION5 PFK	45.62	2.035e3					1.1	NO		bb		
17	FUNCTION5 PFK	45.41	4.528e2					0.4	NO		bb		
18	FUNCTION5 PFK	45.32	1.213e3					0.6	NO		bb		
19	FUNCTION5 PFK	45.24	3.959e3					1.2	NO		bb		
20	FUNCTION5 PFK	45.13	4.940e2					0.4	NO		bb		
21	FUNCTION5 PFK	44.90	3.221e3					0.9	NO		db		
22	FUNCTION5 PFK	44.84	4.799e3					1.3	NO		bd		
23	FUNCTION5 PFK	44.76	3.269e3					1.2	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	23.61	7.977e1					1.7	NO		bb		0.000
2	FUNCTION1 HXCD...	21.17	7.192e1					4.4	YES		bb		0.000
3	FUNCTION1 HXCD...	27.24	7.537e1					1.7	NO		bb		0.000
4	FUNCTION1 HXCD...	25.65	1.145e2					2.3	NO		bb		0.000
5	FUNCTION1 HXCD...	25.22	7.833e1					1.4	NO		bb		0.000
6	FUNCTION1 HXCD...	23.98	1.098e2					2.0	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
Printed: Thursday, July 27, 2023 11:28:07 Pacific Daylight Time

ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

ETHERS2

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

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.72	8.907e1					1.4	NO		bb	0.000	
2	FUNCTION2 HPCD...	29.05	9.756e1					1.5	NO		bb	0.000	

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.35	1.034e2					3.2	YES		bb	0.000	

ETHERS5

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

ETHERS6

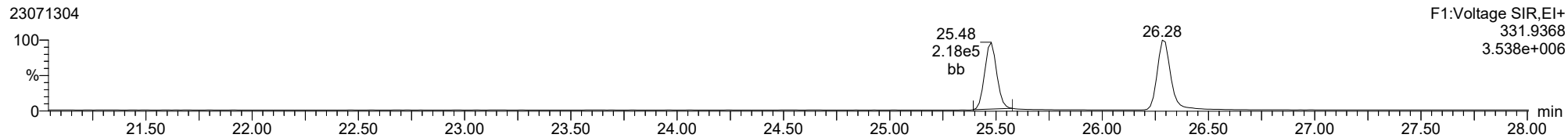
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1													

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

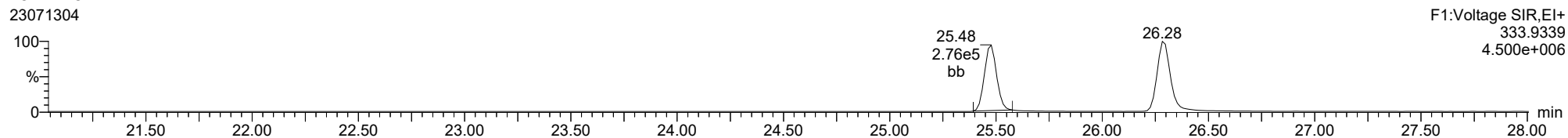
13C-1234-TCDD

23071304



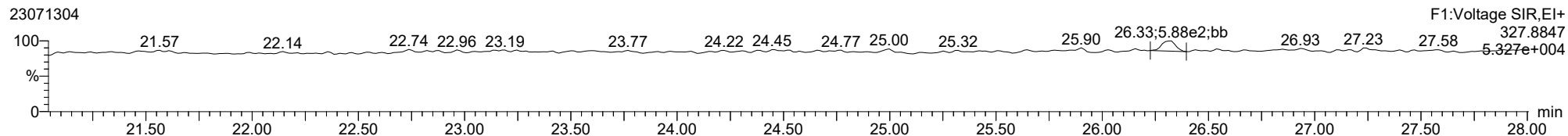
13C-1234-TCDD

23071304



37CL-2378-TCDD

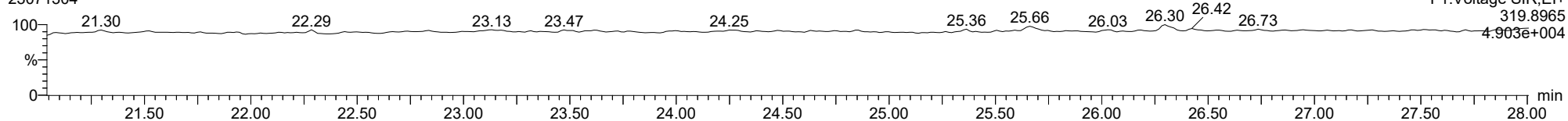
23071304



ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

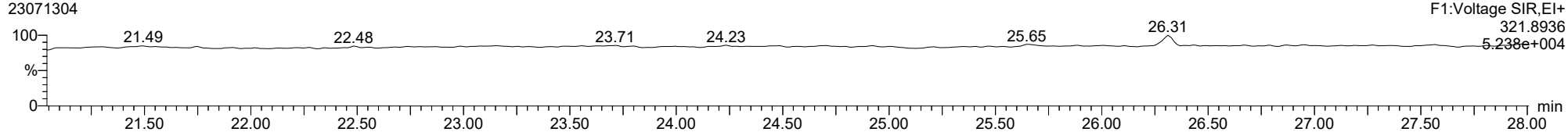
2378-TCDD

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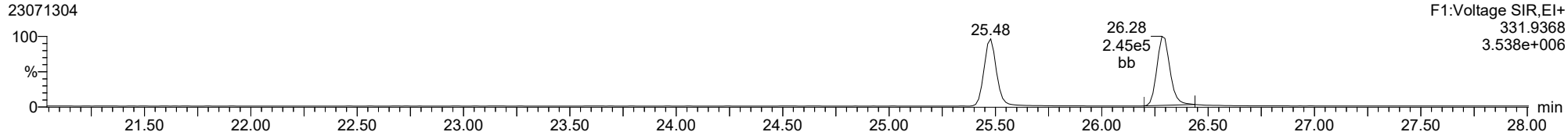
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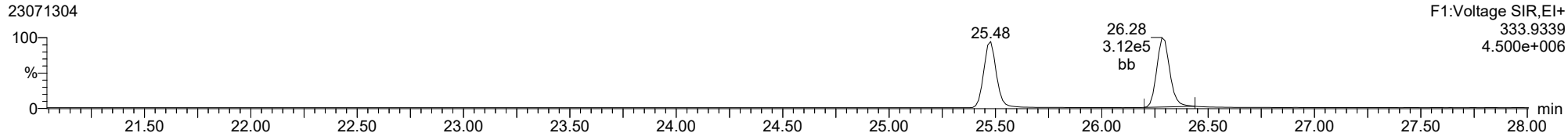
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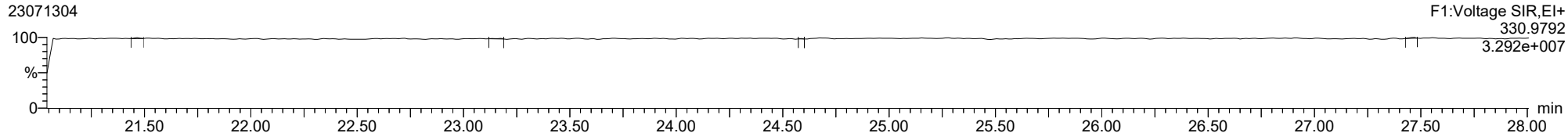
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23071304



FUNCTION1 PFK

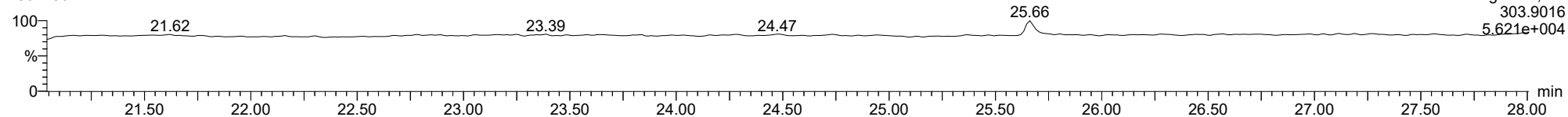
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

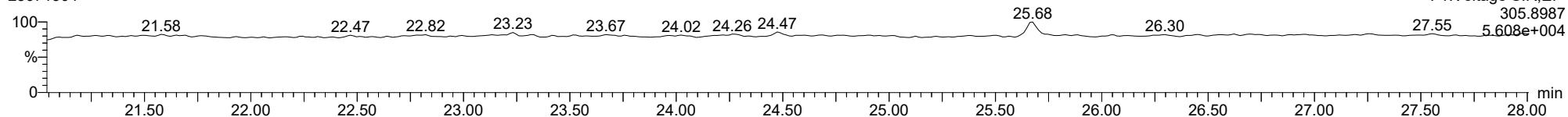
2378-TCDF

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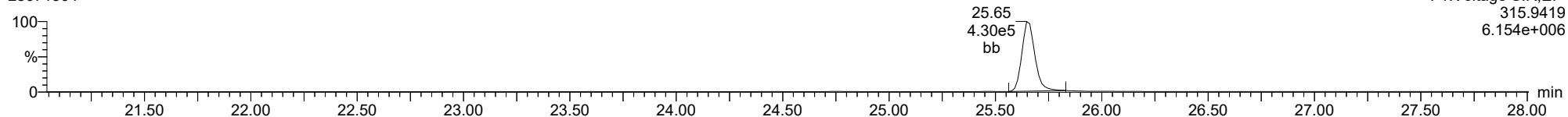
2378-TCDF

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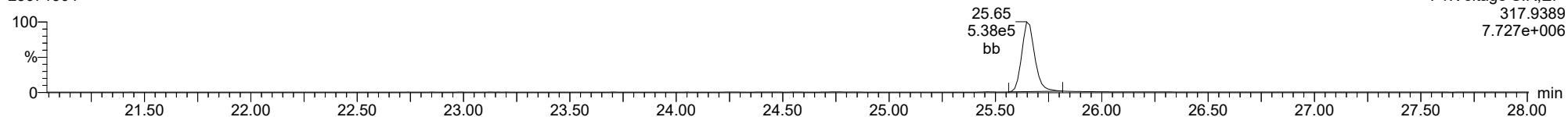
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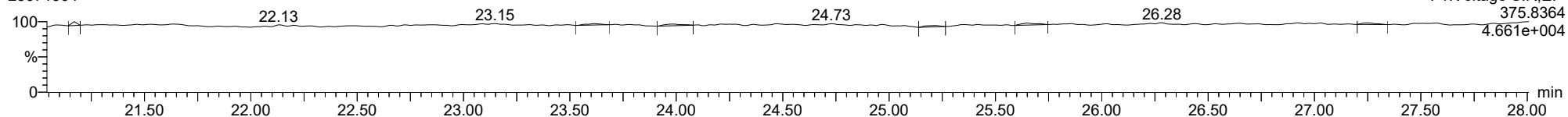
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23071304



FUNCTION1 HXCDPE

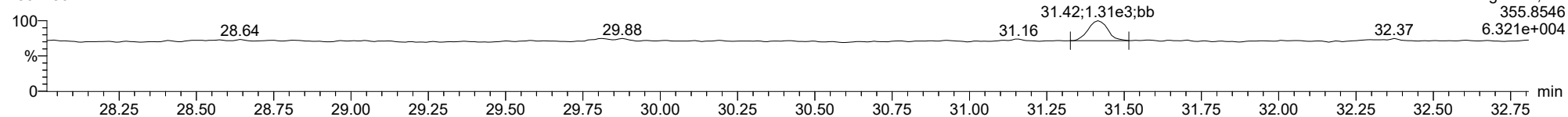
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

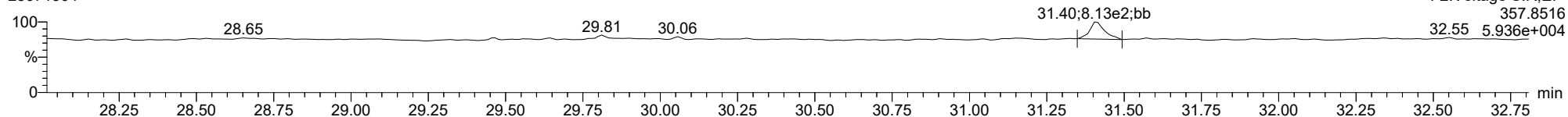
12378-PeCDD

23071304



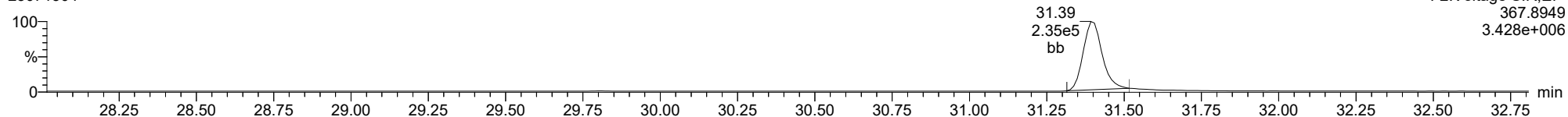
12378-PeCDD

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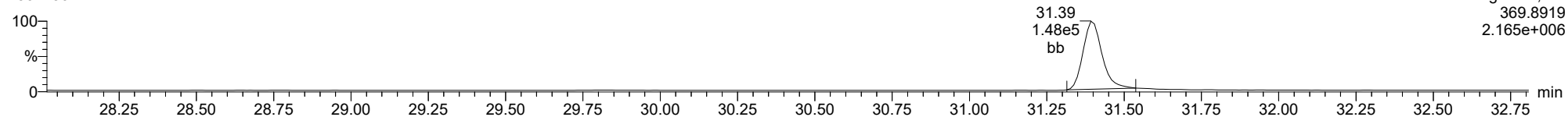
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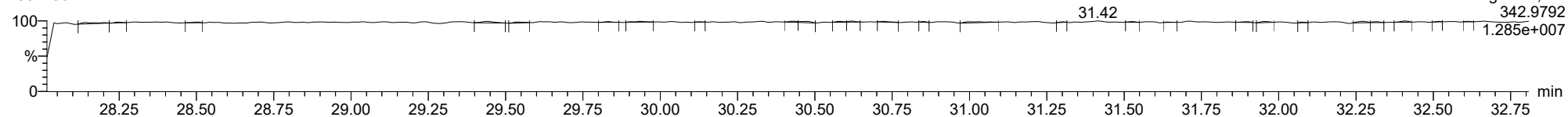
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23071304



FUNCTION2 PFK

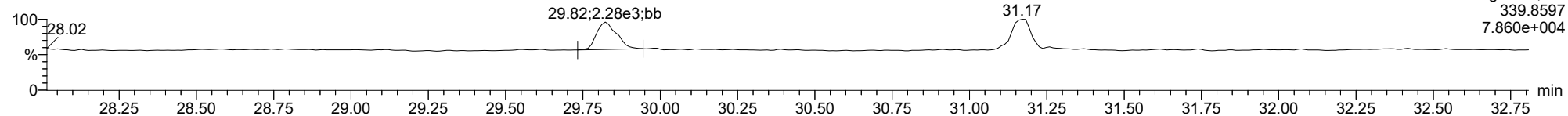
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

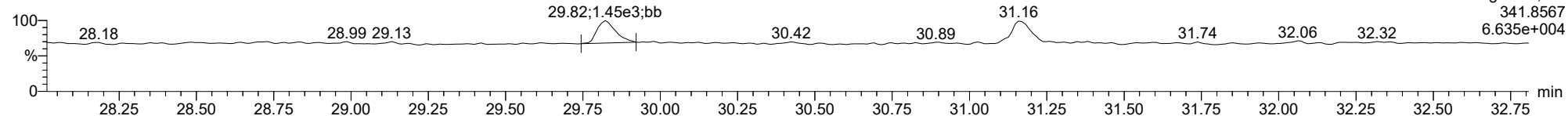
12378-PeCDF

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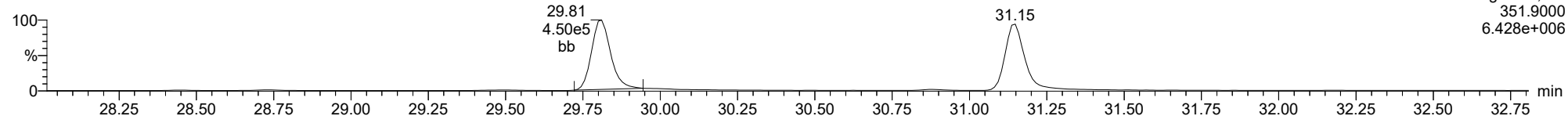
12378-PeCDF

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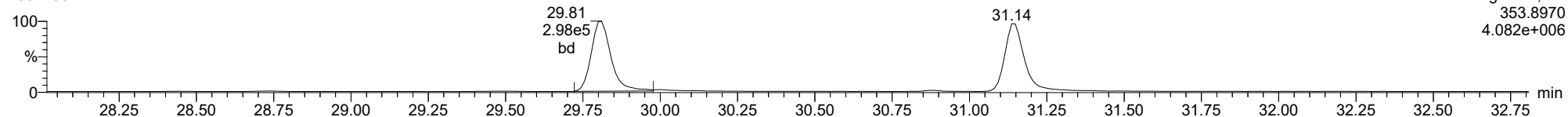
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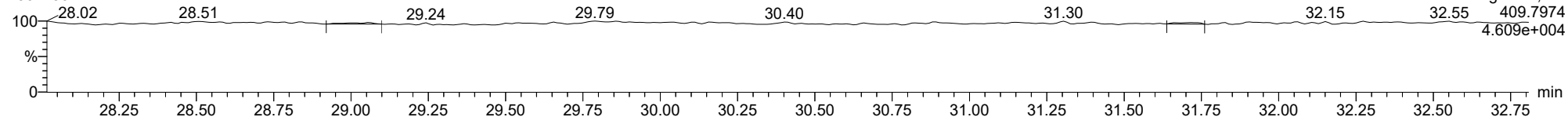
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23071304



FUNCTION2 HPCDPE

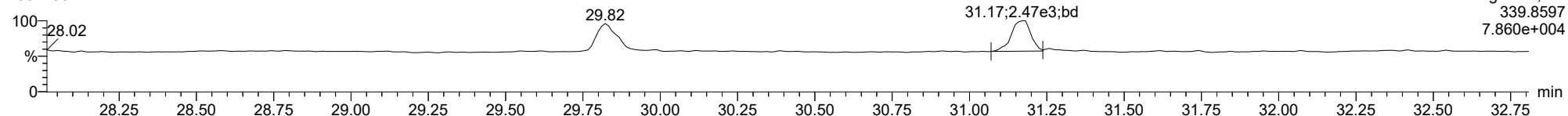
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

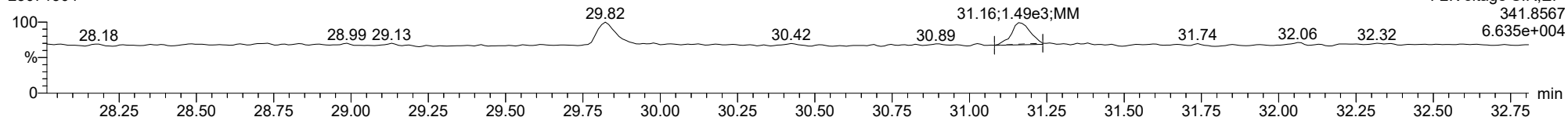
23478-PeCDF

23071304



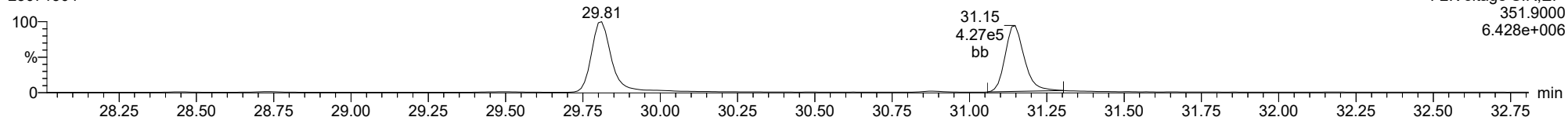
23478-PeCDF

23071304



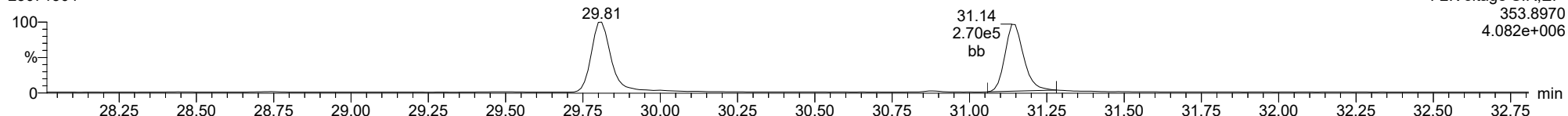
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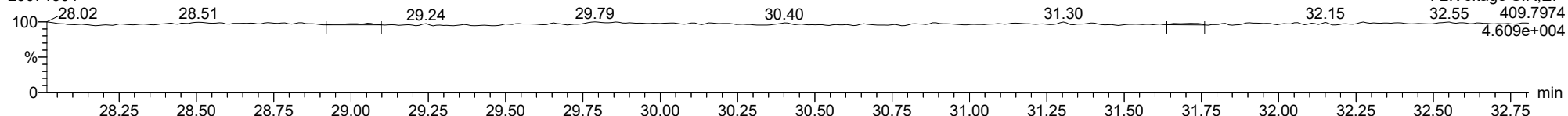
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23071304



FUNCTION2 HPCDPE

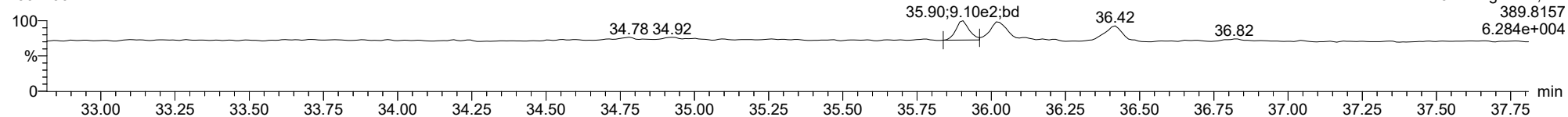
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

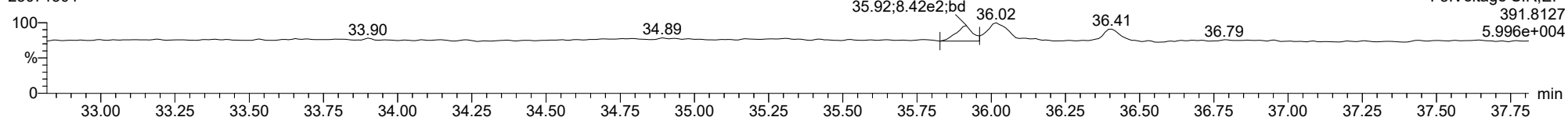
123478-HxCDD

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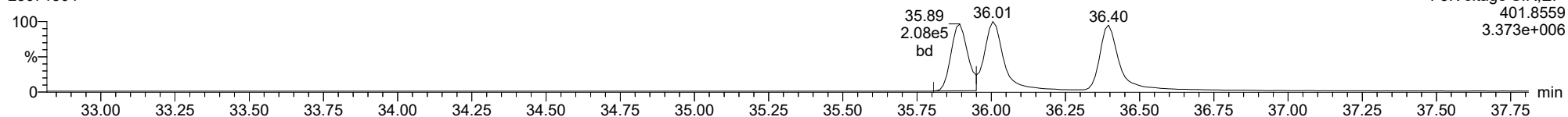
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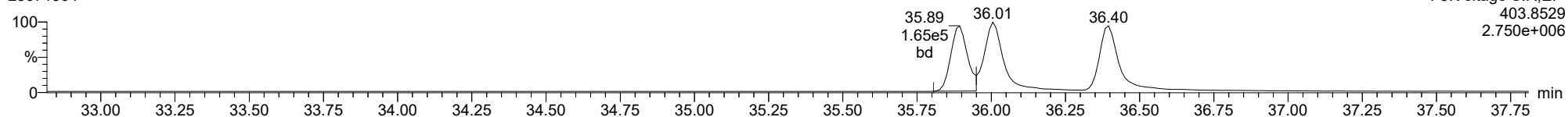
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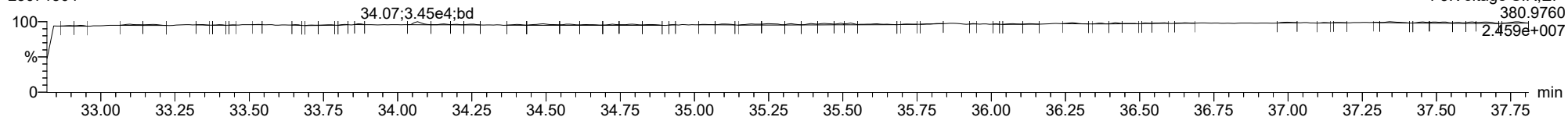
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23071304



FUNCTION3 PFK

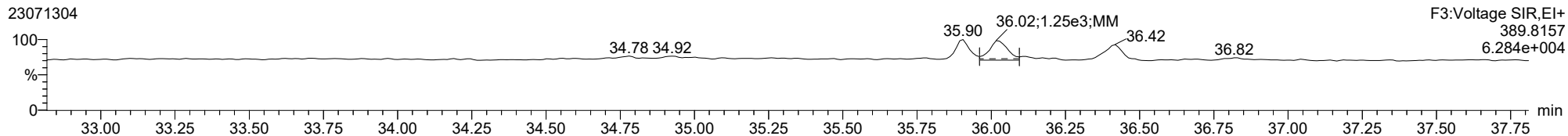
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

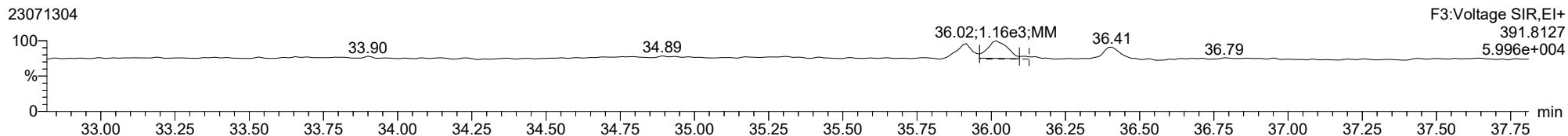
123678-HxCDD

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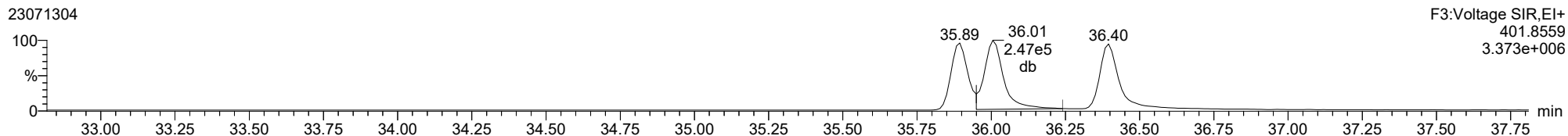
123678-HxCDD

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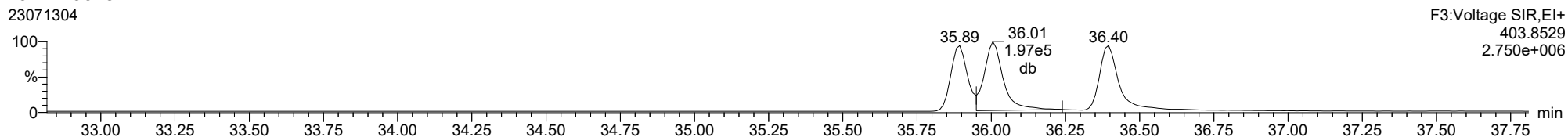
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23071304



13C-123678-HxCDD

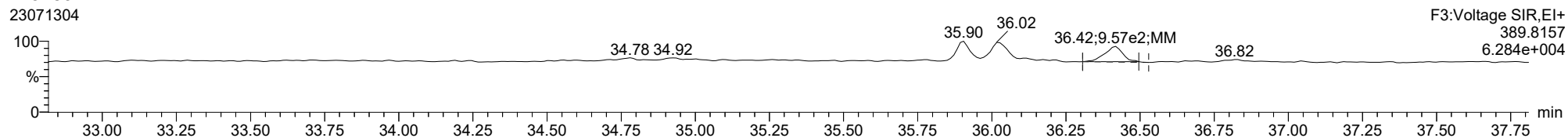
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

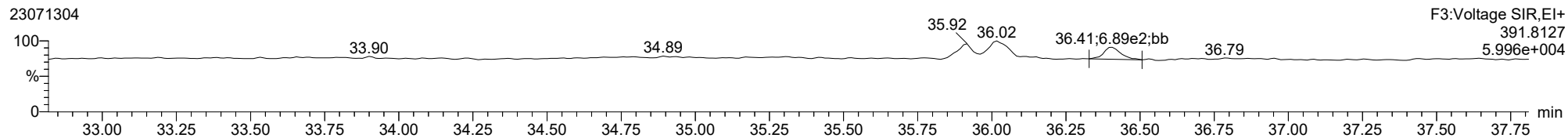
123789-HxCDD

23071304



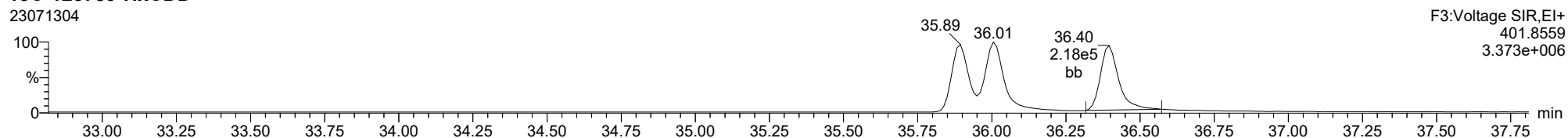
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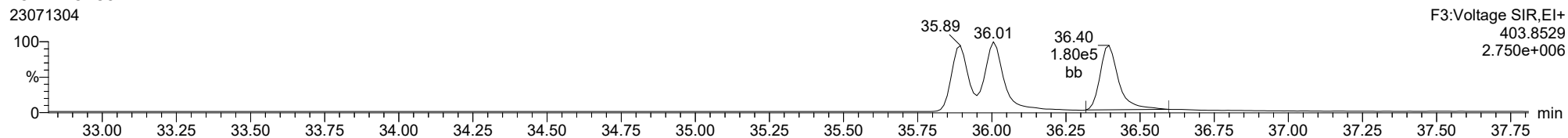
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23071304



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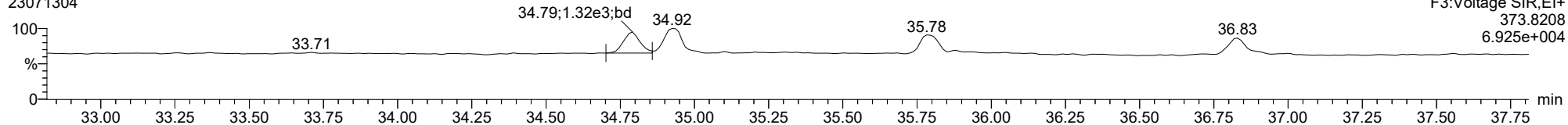
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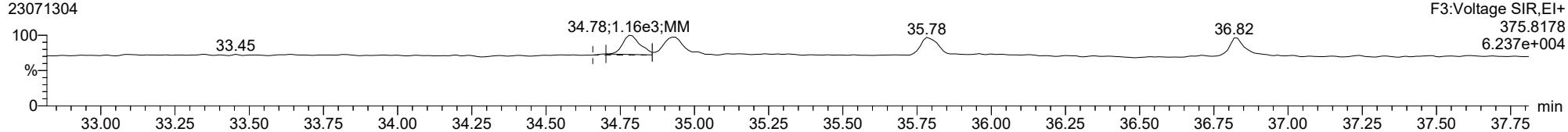
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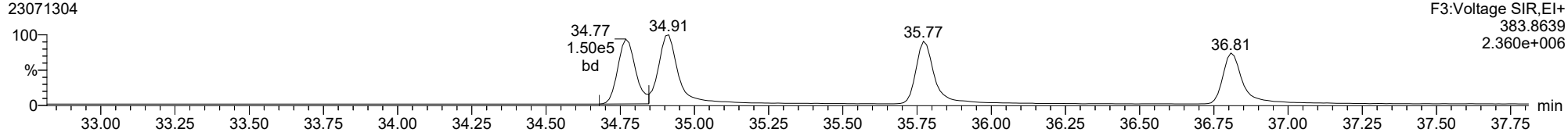
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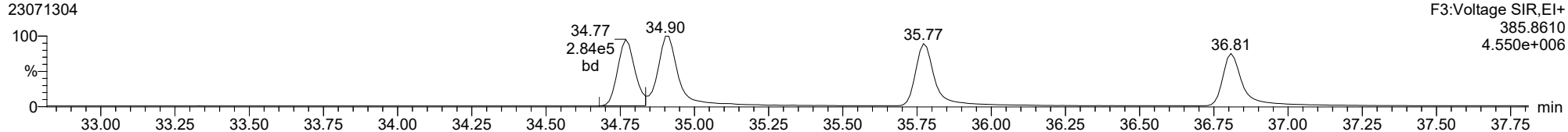
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23071304



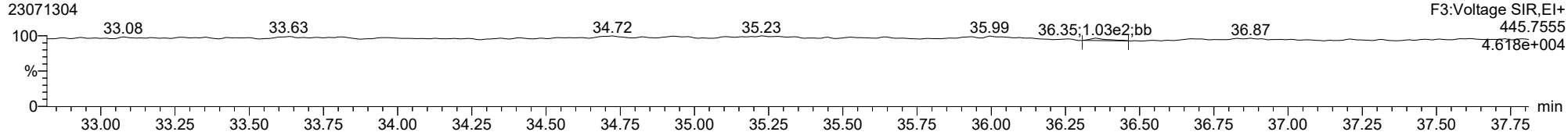
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23071304



FUNCTION3 OCDPE

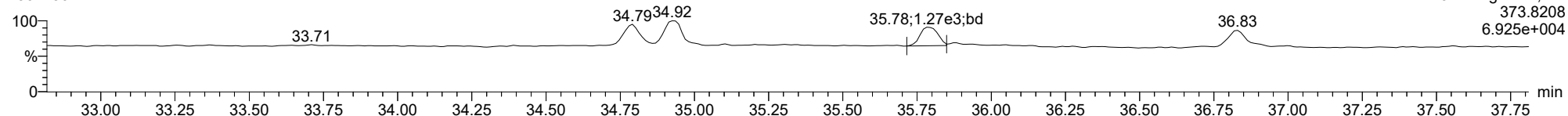
23071304



ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

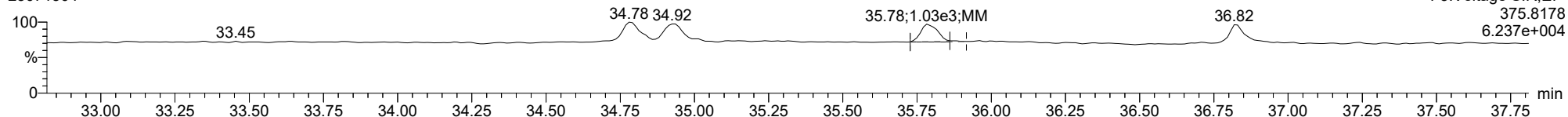
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23071304



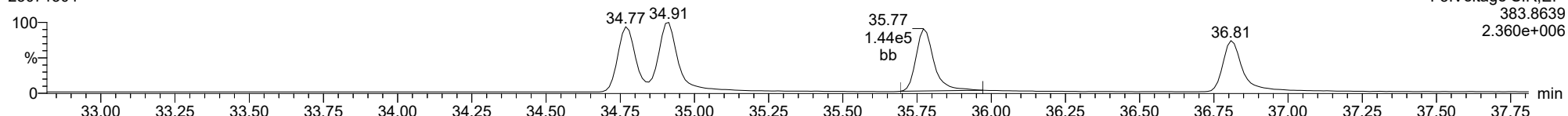
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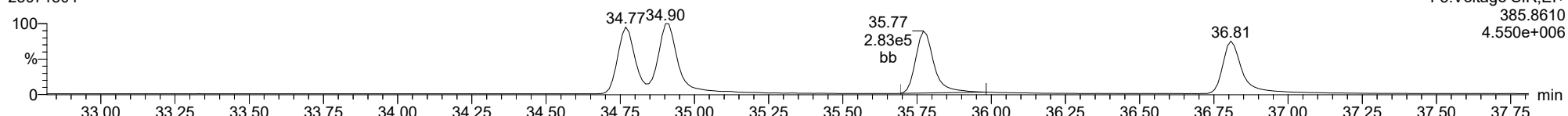
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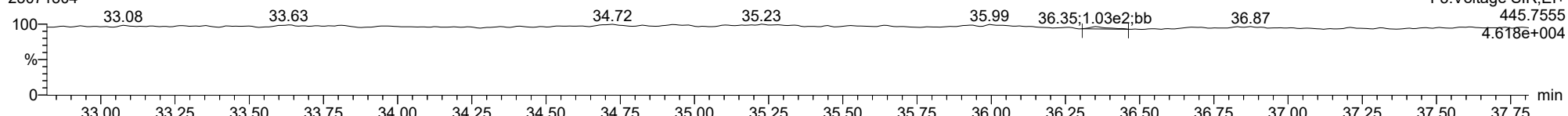
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23071304



FUNCTION3 OCDPE

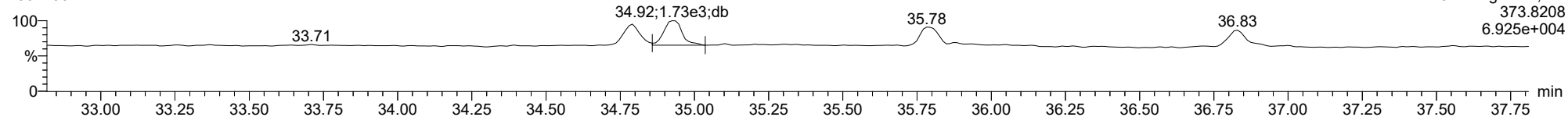
23071304



ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

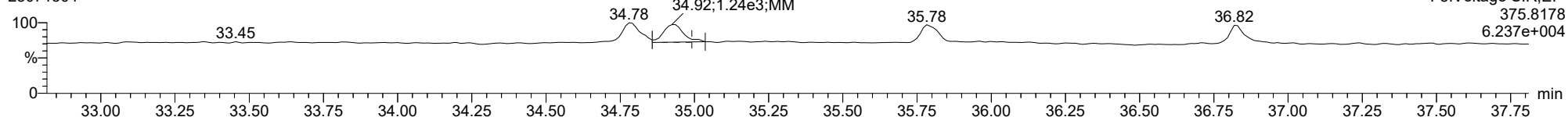
123678-HxCDF

23071304



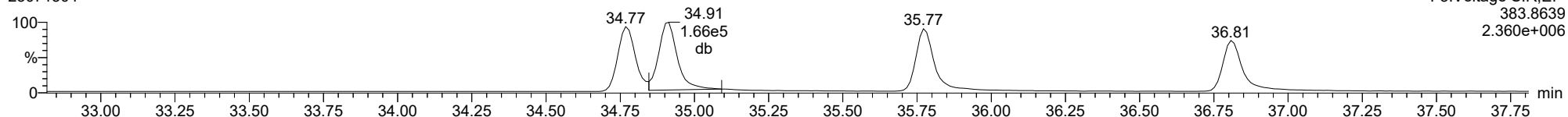
123678-HxCDF

23071304



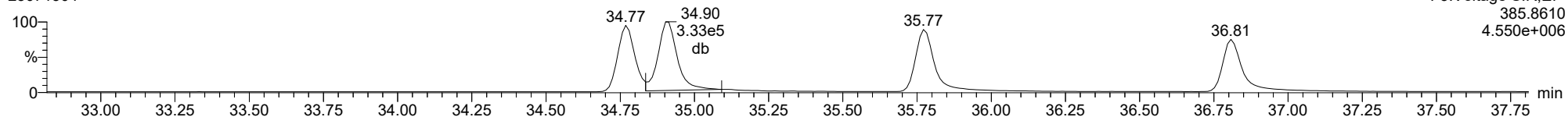
13C-123678-HxCDF

23071304



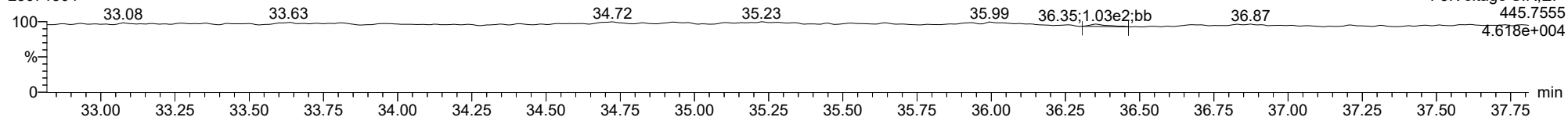
13C-123678-HxCDF

23071304



FUNCTION3 OCDPE

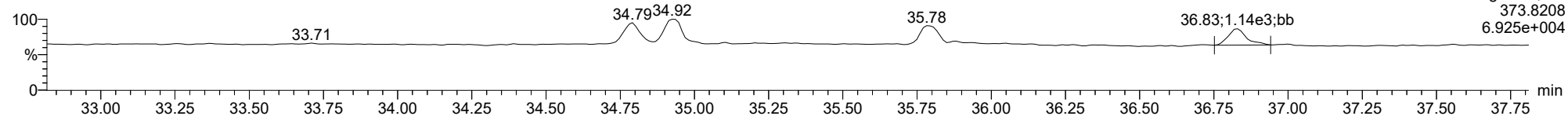
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

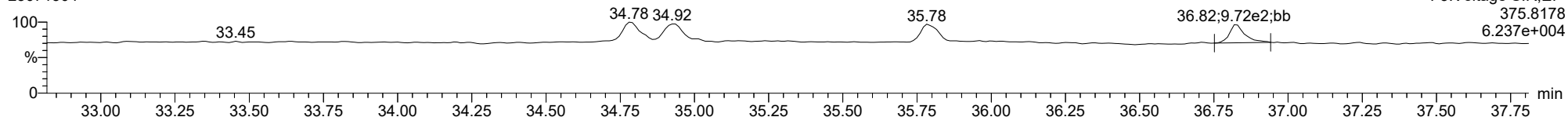
123789-HxCDF

23071304



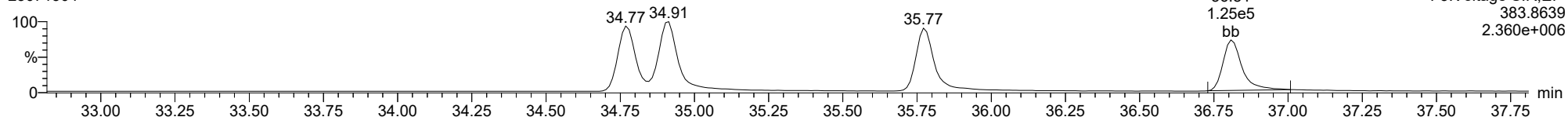
123789-HxCDF

23071304



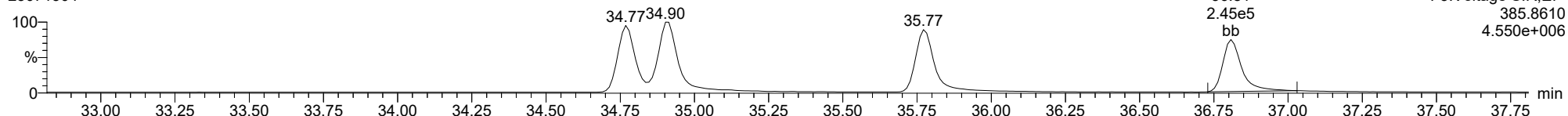
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23071304



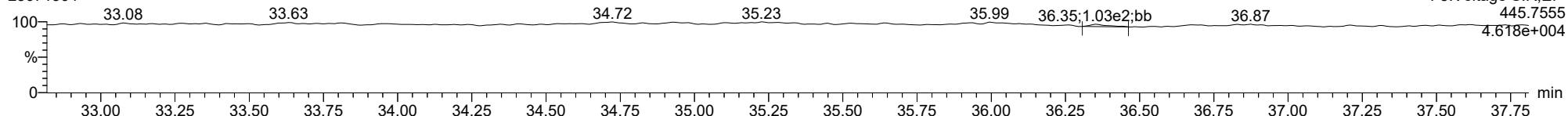
13C-123789-HxCDF

23071304



FUNCTION3 OCDPE

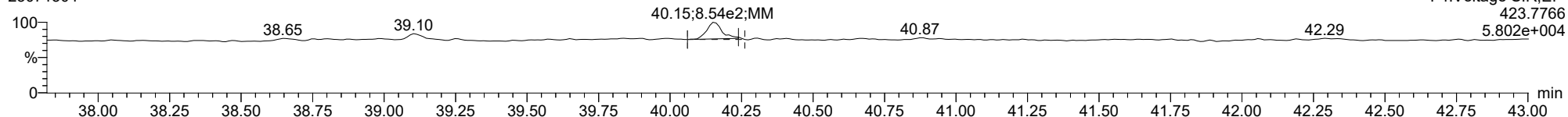
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

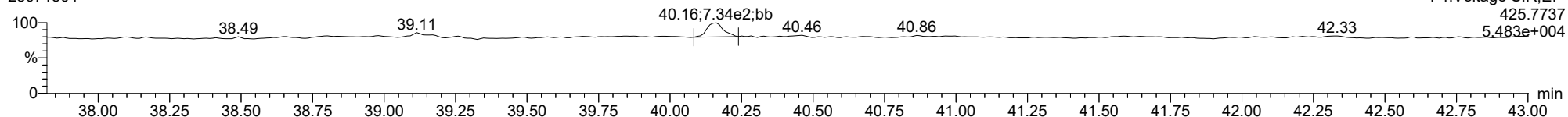
1234678-HpCDD

23071304



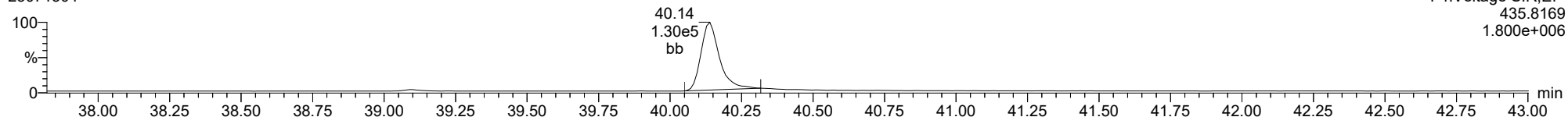
1234678-HpCDD

23071304



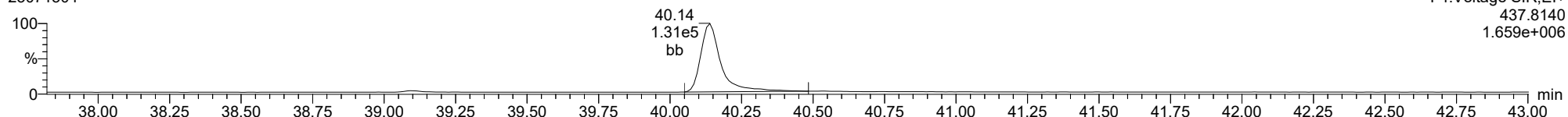
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23071304



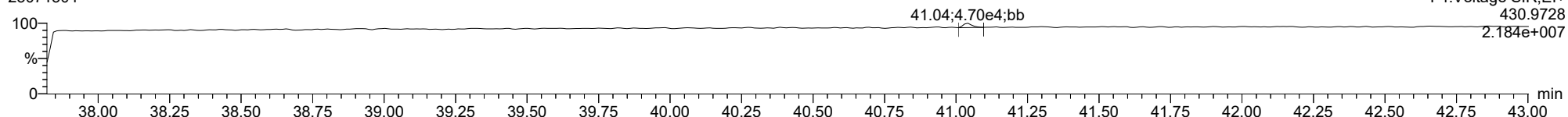
13C-1234678-HpCDD

23071304



FUNCTION4 PFK

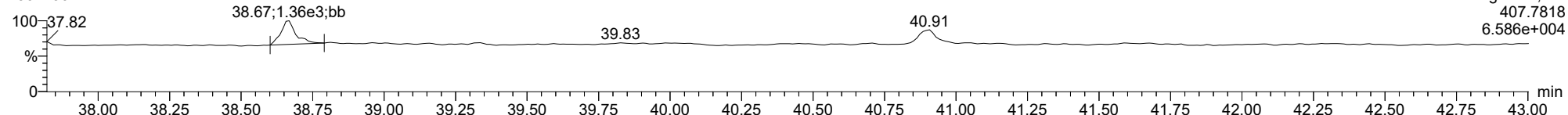
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

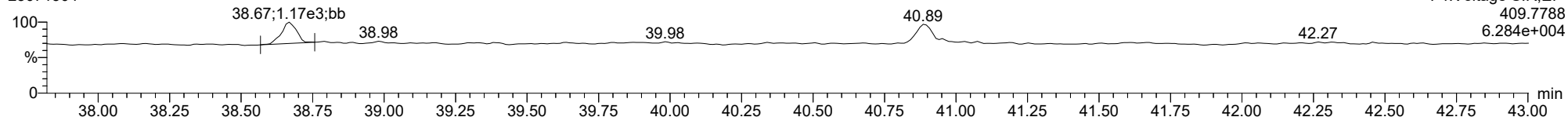
1234678-HpCDF

23071304



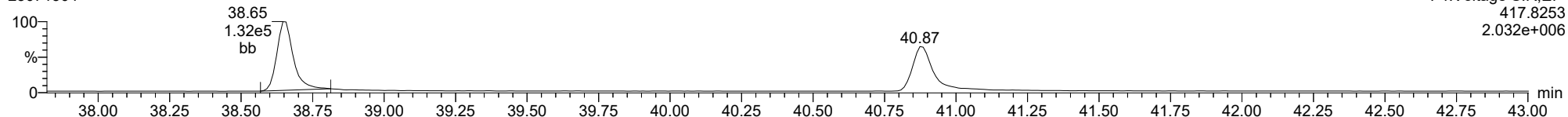
1234678-HpCDF

23071304



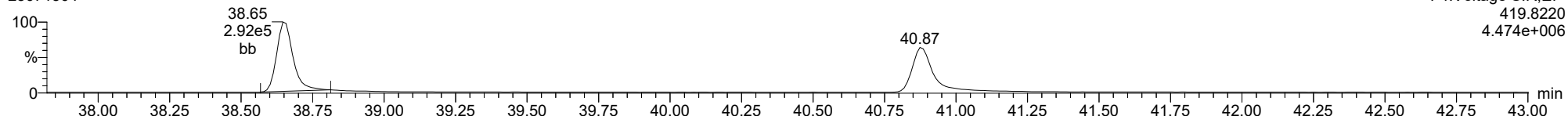
13C-1234678-HpCDF

23071304



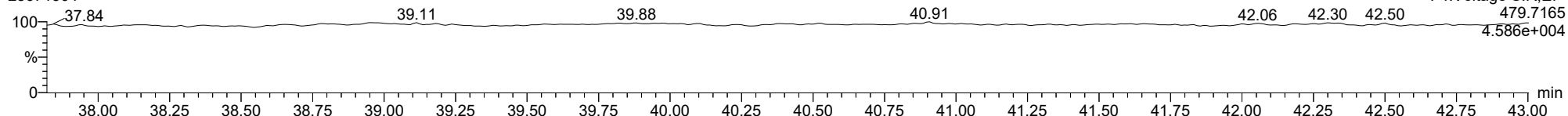
13C-1234678-HpCDF

23071304



FUNCTION4 NCDPE

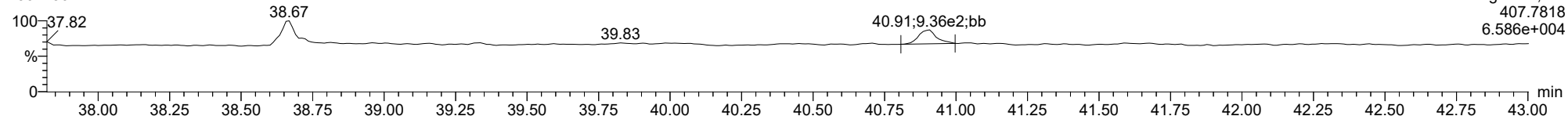
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

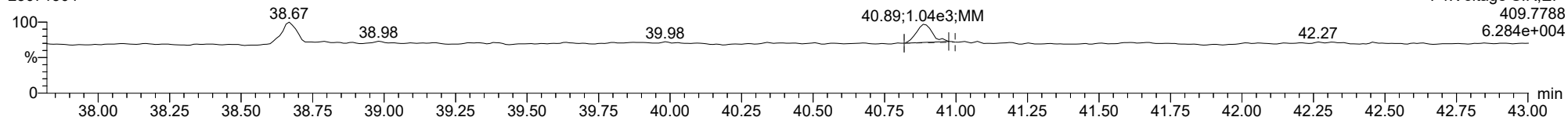
1234789-HpCDF

23071304



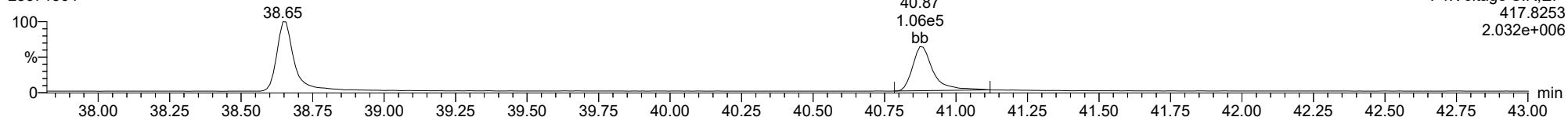
1234789-HpCDF

23071304



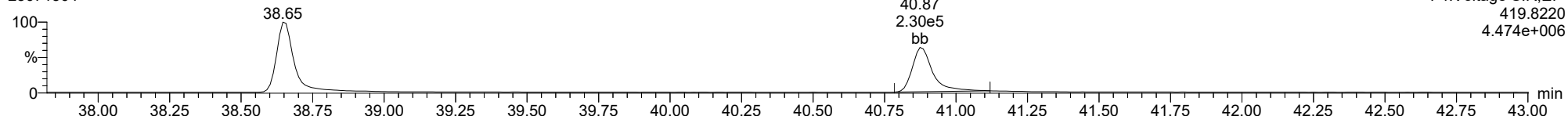
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23071304



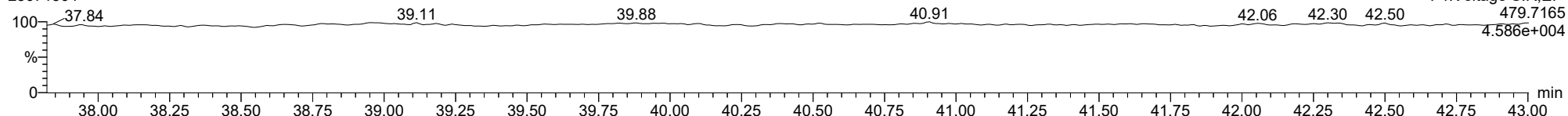
13C-1234789-HpCDF

23071304



FUNCTION4 NCDPE

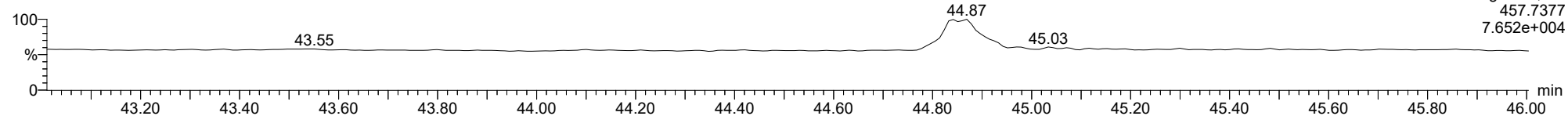
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

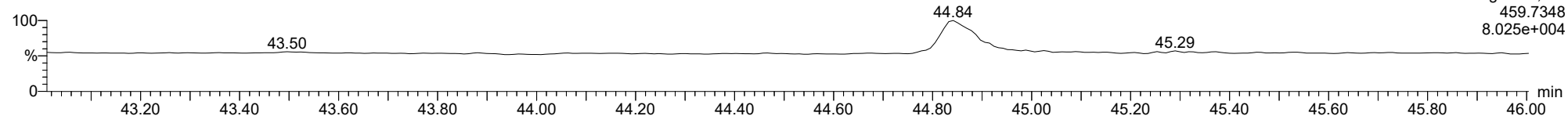
OCDD

23071304



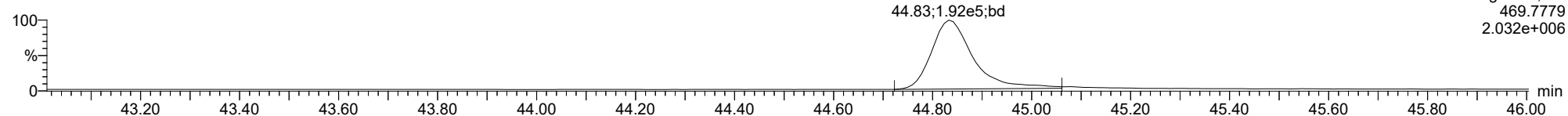
OCDD

23071304



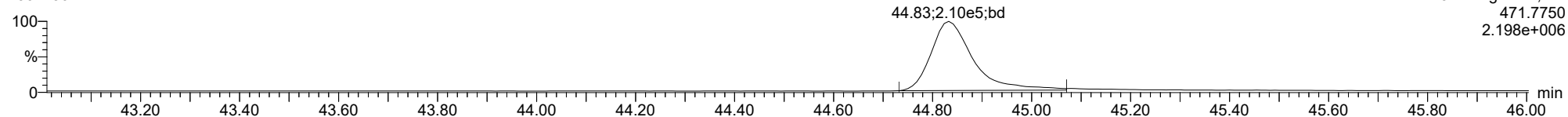
13C-OCDD

23071304



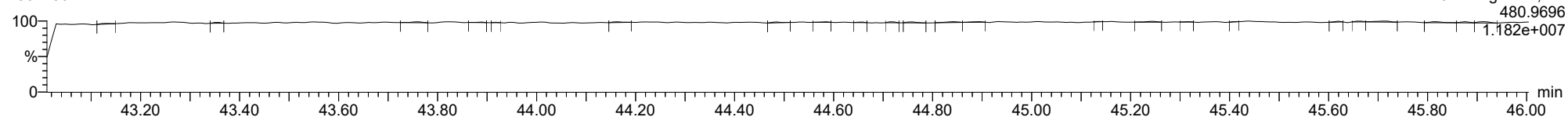
13C-OCDD

23071304



FUNCTION5 PFK

23071304



ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

OCDF

23071304

100-43.01
%
0

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

44.12

45.10;1.63e3;MM

F5:Voltage SIR,EI+
441.7428
6.440e+004

OCDF

23071304

100
%
0

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

43.50

44.40

45.09;1.67e3;bb

45.78

F5:Voltage SIR,EI+
443.7399
6.439e+004

FUNCTION5 DCDPE

23071304

100
%
0

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

43.48

44.05

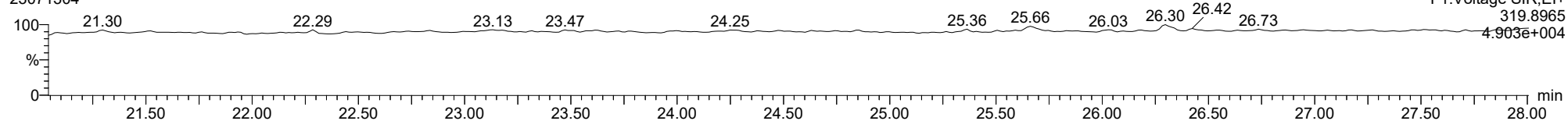
45.42

F5:Voltage SIR,EI+
513.6775
4.526e+004

ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

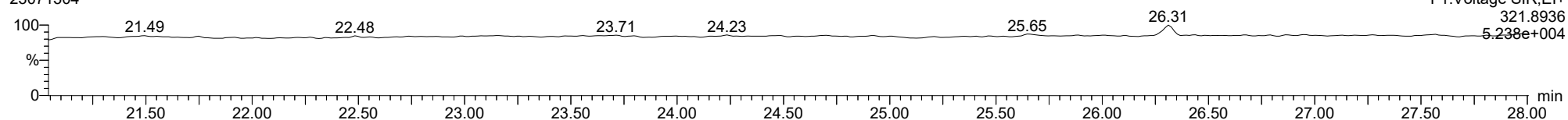
Total-tetradoxins

23071304



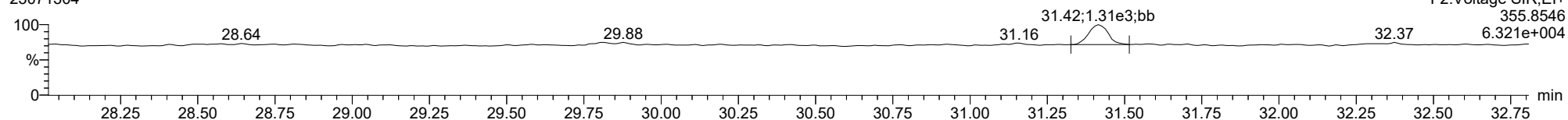
Total-tetradoxins

23071304



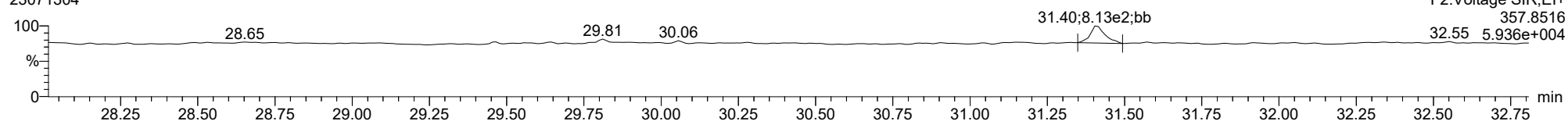
Total-pentadoxins

23071304



Total-pentadoxins

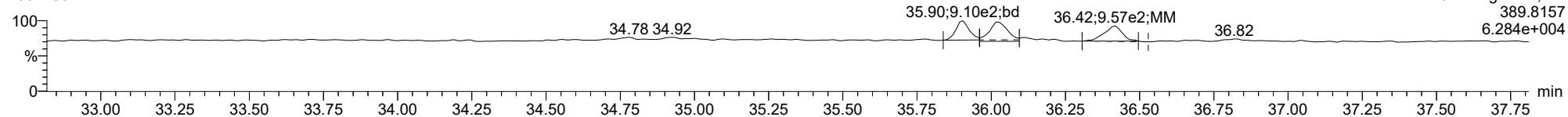
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

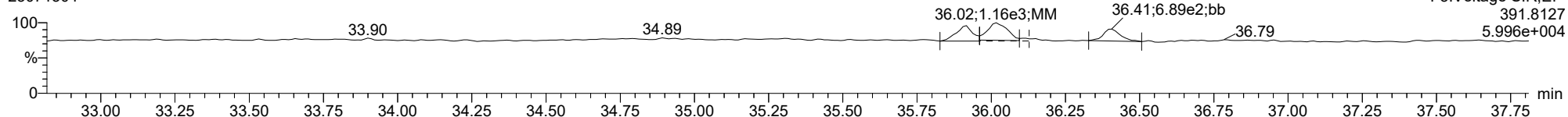
Total-hexadioxins

23071304



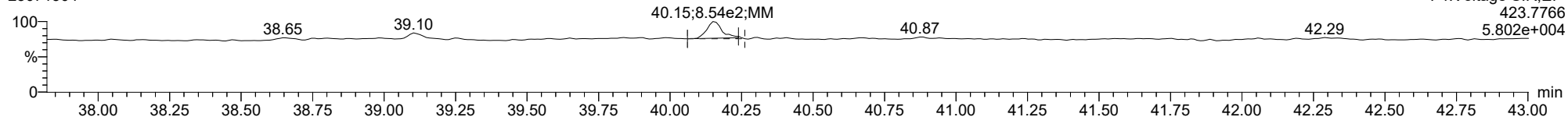
Total-hexadioxins

23071304



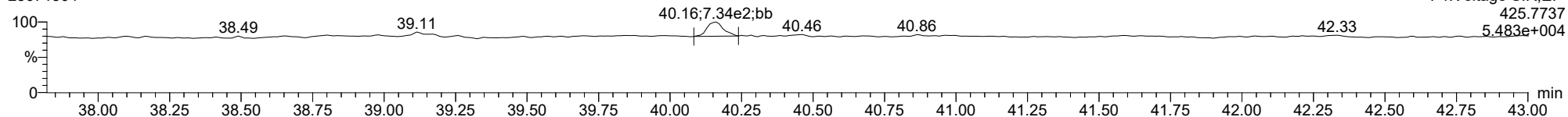
Total-heptadioxins

23071304



Total-heptadioxins

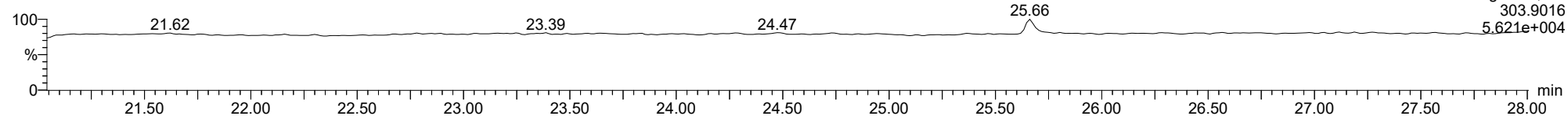
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

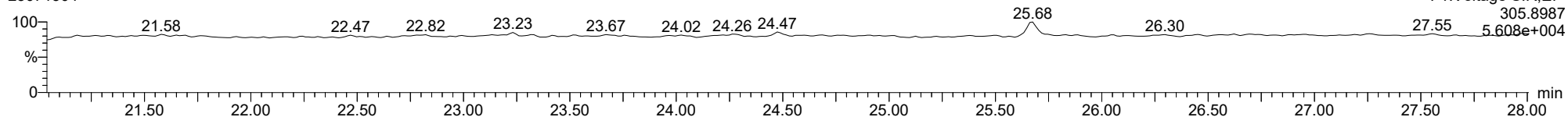
Total-tetrafurans

23071304



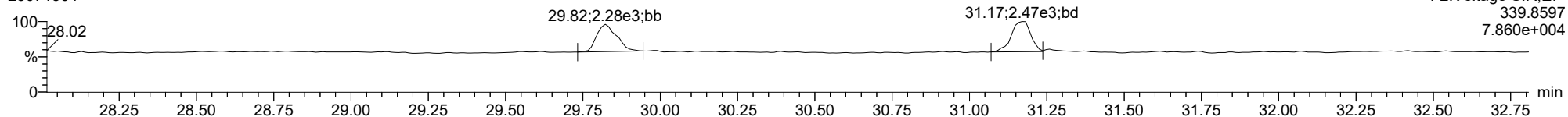
Total-tetrafurans

23071304



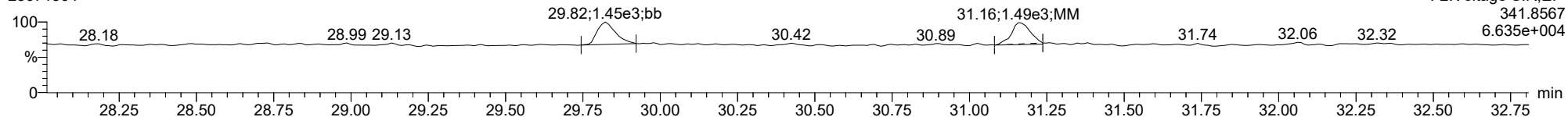
Total-pentafurans

23071304



Total-pentafurans

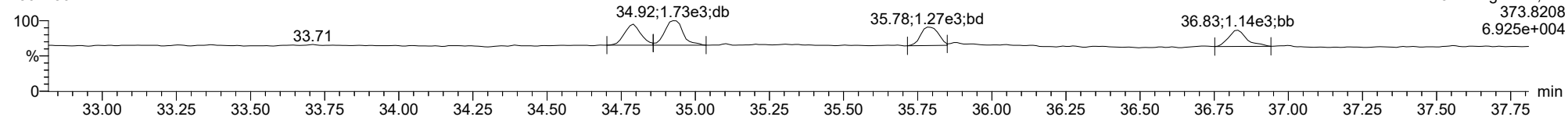
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ID: CSLCA, Name: 23071304, Date: 13-Jul-2023, Time: 12:03:38, Conditions: AUTOSPEC01, User: pk

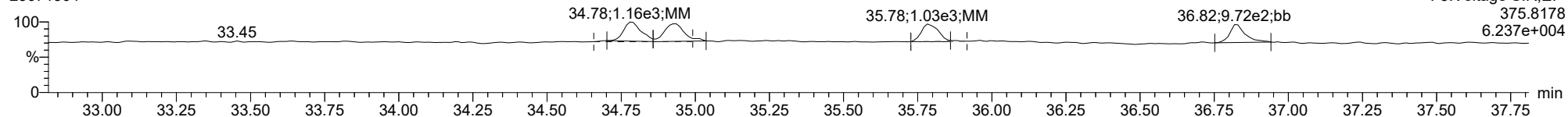
Total-hexafurans

23071304



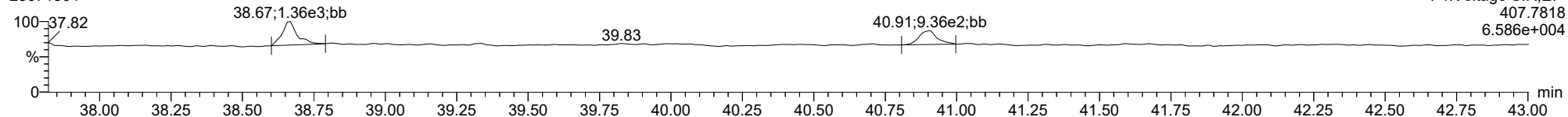
Total-hexafurans

23071304



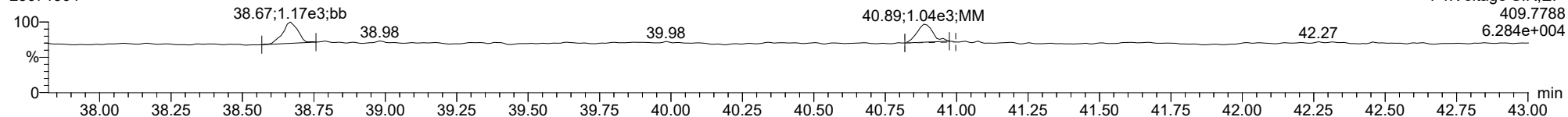
Total-heptafurans

23071304



Total-heptafurans

23071304



Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:22 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
 Calibration: 27 Jul 2023 11:25:35

ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, 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	25.690	1.001	1.673e3	2.233e3	0.951	0.749	0.770	645	995	2.60e4	3.87e4	40.4	38.9	NO	bb	bb	0.523
12378-PeCDF	29.833	1.000	8.795e3	5.453e3	0.963	1.613	1.550	969	742	1.29e5	7.94e4	132.8	107.0	NO	bb	bd	2.533
23478-PeCDF	31.181	1.001	8.696e3	6.159e3	1.072	1.412	1.550	969	742	1.24e5	8.51e4	128.0	114.6	NO	bb	bb	2.474
123478-HxCDF	34.802	1.000	5.568e3	4.510e3	1.142	1.235	1.240	542	745	8.35e4	6.57e4	154.1	88.1	NO	bd	bd	2.558
234678-HxCDF	35.805	1.000	5.286e3	4.265e3	1.138	1.240	1.240	542	745	7.90e4	5.95e4	145.8	79.9	NO	bb	bd	2.479
123678-HxCDF	34.936	1.000	6.267e3	4.922e3	1.100	1.273	1.240	542	745	8.80e4	6.51e4	162.3	87.3	NO	dd	dd	2.433
123789-HxCDF	36.841	1.001	4.165e3	3.130e3	1.066	1.331	1.240	542	745	6.01e4	4.41e4	110.8	59.2	NO	bb	bb	2.368
1234678-HpCDF	38.679	1.000	5.406e3	5.164e3	1.210	1.047	1.050	877	695	8.37e4	7.99e4	95.4	114.9	NO	bb	bb	2.555
1234789-HpCDF	40.908	1.000	3.855e3	3.539e3	1.213	1.089	1.050	877	695	5.25e4	4.57e4	59.9	65.7	NO	bd	bb	2.239
OCDF	45.107	1.006	5.579e3	5.799e3	1.391	0.962	0.890	839	748	6.18e4	6.34e4	73.7	84.7	NO	bd	bd	5.050
2378-TCDD	26.325	1.001	1.338e3	1.530e3	1.197	0.874	0.770	765	589	2.01e4	2.14e4	26.3	36.2	NO	MM	bb	0.535
12378-PeCDD	31.426	1.000	5.868e3	3.295e3	1.129	1.781	1.550	650	527	7.89e4	4.68e4	121.4	88.9	NO	bd	bd	2.580
123478-HxCDD	35.916	1.000	3.380e3	2.765e3	0.917	1.222	1.240	625	696	4.86e4	4.20e4	77.8	60.3	NO	bd	bd	2.365
123678-HxCDD	36.028	1.000	4.147e3	3.010e3	0.944	1.378	1.240	625	696	5.74e4	4.19e4	91.8	60.1	NO	db	db	2.227
123789-HxCDD	36.429	1.011	3.881e3	3.158e3	0.869	1.229	1.240	625	696	5.55e4	4.02e4	88.8	57.8	NO	bb	bb	2.598
1234678-HpCDD	40.161	1.000	3.254e3	2.773e3	1.237	1.173	1.050	746	643	4.80e4	4.15e4	64.3	64.5	NO	bb	bd	2.512
OCDD	44.878	1.001	5.621e3	7.263e3	1.212	0.774	0.890	884	877	7.17e4	8.36e4	81.1	95.3	NO	bb	MM	6.559
13C-2378-TCDF	25.675	1.007	3.452e5	4.399e5	1.920	0.785	0.770	1546	964	4.81e6	6.07e6	3111.6	6303.7	NO	bb	bb	100.477
13C-12378-PeCDF	29.822	1.170	3.569e5	2.273e5	1.455	1.570	1.550	2613	2751	5.13e6	3.32e6	1962.0	1207.8	NO	bb	bb	98.619
13C-23478-PeCDF	31.159	1.222	3.398e5	2.203e5	1.363	1.543	1.550	2613	2751	4.70e6	3.06e6	1799.5	1111.0	NO	bb	bb	100.968
13C-123478-HxCDF	34.791	0.956	1.172e5	2.280e5	1.119	0.514	0.510	1674	1836	1.70e6	3.28e6	1013.9	1786.4	NO	bd	bd	100.323
13C-123678-HxCDF	34.925	0.959	1.412e5	2.770e5	1.343	0.510	0.510	1674	1836	1.83e6	3.63e6	1090.3	1975.2	NO	db	db	101.262
13C-234678-HxCDF	35.794	0.983	1.156e5	2.230e5	1.113	0.518	0.510	1674	1836	1.60e6	3.16e6	958.4	1722.7	NO	bb	bb	98.953
13C-123789-HxCDF	36.819	1.011	9.842e4	1.905e5	0.959	0.517	0.510	1674	1836	1.30e6	2.55e6	777.0	1386.5	NO	bb	bb	97.997
13C-1234678-HpCDF	38.668	1.062	1.140e5	2.280e5	1.058	0.500	0.440	1698	3371	1.61e6	3.44e6	948.7	1019.9	NO	bd	bb	105.068
13C-1234789-HpCDF	40.896	1.123	8.791e4	1.844e5	0.809	0.477	0.440	1698	3371	1.01e6	2.32e6	594.7	686.8	NO	bd	bb	109.524
13C-1234-TCDD	25.492	0.000	1.822e5	2.248e5	1.000	0.811	0.770	1646	1148	2.76e6	3.44e6	1676.9	2998.1	NO	bb	bb	100.000
13C-2378-TCDD	26.297	1.032	1.964e5	2.520e5	1.104	0.779	0.770	1646	1148	2.73e6	3.52e6	1657.4	3062.8	NO	bb	bb	99.748
13C-12378-PeCDD	31.415	1.232	1.945e5	1.200e5	0.770	1.622	1.550	785	1038	2.66e6	1.63e6	3395.6	1568.1	NO	bb	bb	100.308
13C-123478-HxCDD	35.905	0.986	1.582e5	1.251e5	0.959	1.265	1.240	1996	1012	2.44e6	1.93e6	1224.5	1904.1	NO	bd	bd	96.056
13C-123678-HxCDD	36.016	0.989	1.936e5	1.468e5	1.120	1.319	1.240	1996	1012	2.45e6	1.92e6	1226.6	1895.6	NO	db	db	98.808
13C-1234678-HpCDD	40.150	1.103	9.931e4	9.466e4	0.640	1.049	1.050	1894	1420	1.37e6	1.25e6	721.5	878.8	NO	bb	bb	98.497
13C-OCDD	44.851	1.232	1.527e5	1.713e5	0.555	0.892	0.890	2050	1920	1.54e6	1.73e6	751.0	898.5	NO	bb	bd	189.741
13C-123789-HxCDD	36.407	0.000	1.647e5	1.429e5	1.000	1.153	1.240	1996	1012	2.35e6	1.92e6	1175.3	1892.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.325	1.033	2.254e3	1.129				1137		3.01e4		26.5			bb		0.490

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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.201		0.770	645	995								
1289-TCDF					0.950		0.770	645	995								
13468-PECDF					1.142		1.550	583	687								
12389-PECDF					0.917		1.550	969	742								
123468-HXCDF					1.332		1.240	542	745								
1368-TCDD					1.148		0.770	765	589								
1289-TCDD					0.955		0.770	765	589								
12479-PECDD					2.043		1.550	650	527								
12389-PECDD					1.326		1.550	650	527								
124679-HXCDD					1.104		1.240	625	696								
1234679-HPCDD					1.554		1.050	746	643								
Total-tetrafurans			1.673e3		1.034			645		2.60e4							0.523
Total-penta1			0.000e0					583		0.00e0							
Total-pentafurans			1.749e4		0.984			969		2.53e5							5.007
Total-hexafurans			2.129e4		1.155			542		3.11e5							9.838
Total-heptafurans			9.261e3		1.211			877		1.36e5							4.794
Total-Furans			5.529e4		1.119			645		7.87e5							25.212
Total-tetradoxins			1.338e3		1.100			765		2.01e4							0.535
Total-pentadoxins			5.868e3		1.499			650		7.89e4							2.580
Total-hexadoxins			1.141e4		0.958			625		1.61e5							7.190
Total-heptadoxins			3.254e3		1.396			746		4.80e4							2.512
Total-Dioxins			2.749e4		1.203			765		3.80e5							19.375
Total-TEQ			8.278e4					765		1.17e6							44.586
FUNCTION1 PFK			5.267e4					287447		1.75e6							
FUNCTION2 PFK			1.410e5					146900		4.58e6							0.000
FUNCTION3 PFK			3.703e5					263717		1.10e7							0.000
FUNCTION4 PFK			9.572e4					174113		3.10e6							
FUNCTION5 PFK			8.404e4					114286		3.15e6							
FUNCTION1 HXCD...			5.387e2					608		5.52e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			7.069e1					732		1.12e3							0.000
FUNCTION3 OCDPE			7.901e1					491		7.62e2							0.000
FUNCTION4 NCDPE			1.579e2					527		3.56e3							0.000
FUNCTION5 DCDPE			0.000e0					470		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.69	1.673e3	2.233e3	0.951	0.75	0.77	40.4	YES	NO	bb	bb	0.523

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	31.18	8.696e3	6.159e3	1.072	1.41	1.55	128.0	YES	NO	bb	bb	2.474
2	12378-PeCDF	29.83	8.795e3	5.453e3	0.963	1.61	1.55	132.8	YES	NO	bb	bd	2.533

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	34.94	6.267e3	4.922e3	1.100	1.27	1.24	162.3	YES	NO	dd	dd	2.433
2	123478-HxCDF	34.80	5.568e3	4.510e3	1.142	1.23	1.24	154.1	YES	NO	bd	bd	2.558
3	123789-HxCDF	36.84	4.165e3	3.130e3	1.066	1.33	1.24	110.8	YES	NO	bb	bb	2.368
4	234678-HxCDF	35.80	5.286e3	4.265e3	1.138	1.24	1.24	145.8	YES	NO	bb	bd	2.479

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.91	3.855e3	3.539e3	1.213	1.09	1.05	59.9	YES	NO	bd	bb	2.239
2	1234678-HpCDF	38.68	5.406e3	5.164e3	1.210	1.05	1.05	95.4	YES	NO	bb	bb	2.555

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.69	1.673e3	2.233e3	0.951	0.75	0.77	40.4	YES	NO	bb	bb	0.523
2	123678-HxCDF	34.94	6.267e3	4.922e3	1.100	1.27	1.24	162.3	YES	NO	dd	dd	2.433
3	123478-HxCDF	34.80	5.568e3	4.510e3	1.142	1.23	1.24	154.1	YES	NO	bd	bd	2.558
4	23478-PeCDF	31.18	8.696e3	6.159e3	1.072	1.41	1.55	128.0	YES	NO	bb	bb	2.474
5	12378-PeCDF	29.83	8.795e3	5.453e3	0.963	1.61	1.55	132.8	YES	NO	bb	bd	2.533
6	123789-HxCDF	36.84	4.165e3	3.130e3	1.066	1.33	1.24	110.8	YES	NO	bb	bb	2.368
7	234678-HxCDF	35.80	5.286e3	4.265e3	1.138	1.24	1.24	145.8	YES	NO	bb	bd	2.479
8	OCDF	45.11	5.579e3	5.799e3	1.391	0.96	0.89	73.7	YES	NO	bd	bd	5.050
9	1234789-HpCDF	40.91	3.855e3	3.539e3	1.213	1.09	1.05	59.9	YES	NO	bd	bb	2.239
10	1234678-HpCDF	38.68	5.406e3	5.164e3	1.210	1.05	1.05	95.4	YES	NO	bb	bb	2.555

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.33	1.338e3	1.530e3	1.197	0.87	0.77	26.3	YES	NO	MM	bb	0.535

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.43	5.868e3	3.295e3	1.129	1.78	1.55	121.4	YES	NO	bd	bd	2.580

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.43	3.881e3	3.158e3	0.869	1.23	1.24	88.8	YES	NO	bb	bb	2.598
2	123678-HxCDD	36.03	4.147e3	3.010e3	0.944	1.38	1.24	91.8	YES	NO	db	db	2.227
3	123478-HxCDD	35.92	3.380e3	2.765e3	0.917	1.22	1.24	77.8	YES	NO	bd	bd	2.365

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.16	3.254e3	2.773e3	1.237	1.17	1.05	64.3	YES	NO	bb	bd	2.512

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.43	3.881e3	3.158e3	0.869	1.23	1.24	88.8	YES	NO	bb	bb	2.598
2	123678-HxCDD	36.03	4.147e3	3.010e3	0.944	1.38	1.24	91.8	YES	NO	db	db	2.227
3	123478-HxCDD	35.92	3.380e3	2.765e3	0.917	1.22	1.24	77.8	YES	NO	bd	bd	2.365
4	12378-PeCDD	31.43	5.868e3	3.295e3	1.129	1.78	1.55	121.4	YES	NO	bd	bd	2.580
5	2378-TCDD	26.33	1.338e3	1.530e3	1.197	0.87	0.77	26.3	YES	NO	MM	bb	0.535
6	1234678-HpCDD	40.16	3.254e3	2.773e3	1.237	1.17	1.05	64.3	YES	NO	bb	bd	2.512
7	OCDD	44.88	5.621e3	7.263e3	1.212	0.77	0.89	81.1	YES	NO	bb	MM	6.559

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.69	1.673e3	2.233e3	0.951	0.75	0.77	40.4	YES	NO	bb	bb	0.523
2	123678-HxCDF	34.94	6.267e3	4.922e3	1.100	1.27	1.24	162.3	YES	NO	dd	dd	2.433
3	123478-HxCDF	34.80	5.568e3	4.510e3	1.142	1.23	1.24	154.1	YES	NO	bd	bd	2.558
4	23478-PeCDF	31.18	8.696e3	6.159e3	1.072	1.41	1.55	128.0	YES	NO	bb	bb	2.474
5	12378-PeCDF	29.83	8.795e3	5.453e3	0.963	1.61	1.55	132.8	YES	NO	bb	bd	2.533
6	123789-HxCDF	36.84	4.165e3	3.130e3	1.066	1.33	1.24	110.8	YES	NO	bb	bb	2.368
7	234678-HxCDF	35.80	5.286e3	4.265e3	1.138	1.24	1.24	145.8	YES	NO	bb	bd	2.479
8	OCDF	45.11	5.579e3	5.799e3	1.391	0.96	0.89	73.7	YES	NO	bd	bd	5.050
9	1234789-HpCDF	40.91	3.855e3	3.539e3	1.213	1.09	1.05	59.9	YES	NO	bd	bb	2.239
10	1234678-HpCDF	38.68	5.406e3	5.164e3	1.210	1.05	1.05	95.4	YES	NO	bb	bb	2.555
11	123789-HxCDD	36.43	3.881e3	3.158e3	0.869	1.23	1.24	88.8	YES	NO	bb	bb	2.598
12	123678-HxCDD	36.03	4.147e3	3.010e3	0.944	1.38	1.24	91.8	YES	NO	db	db	2.227
13	123478-HxCDD	35.92	3.380e3	2.765e3	0.917	1.22	1.24	77.8	YES	NO	bd	bd	2.365
14	12378-PeCDD	31.43	5.868e3	3.295e3	1.129	1.78	1.55	121.4	YES	NO	bd	bd	2.580
15	2378-TCDD	26.33	1.338e3	1.530e3	1.197	0.87	0.77	26.3	YES	NO	MM	bb	0.535
16	1234678-HpCDD	40.16	3.254e3	2.773e3	1.237	1.17	1.05	64.3	YES	NO	bb	bd	2.512
17	OCDD	44.88	5.621e3	7.263e3	1.212	0.77	0.89	81.1	YES	NO	bb	MM	6.559

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.17	1.488e4					1.7	NO		bb		
2	FUNCTION1 PFK	25.42	7.302e3					1.2	NO		bb		
3	FUNCTION1 PFK	25.05	3.042e3					0.8	NO		bb		
4	FUNCTION1 PFK	24.53	3.012e3					0.7	NO		bb		
5	FUNCTION1 PFK	24.16	2.443e4					1.8	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	29.00	2.191e3					0.8	NO		bb		0.000
2	FUNCTION2 PFK	28.94	2.221e3					0.8	NO		bb		0.000
3	FUNCTION2 PFK	28.90	1.485e4					2.1	NO		bb		0.000
4	FUNCTION2 PFK	28.76	2.712e3					0.8	NO		bb		0.000
5	FUNCTION2 PFK	28.60	1.055e4					2.1	NO		bb		0.000
6	FUNCTION2 PFK	28.53	6.708e3					1.6	NO		db		0.000
7	FUNCTION2 PFK	28.49	6.278e3					1.5	NO		bd		0.000
8	FUNCTION2 PFK	28.39	8.138e2					0.5	NO		bb		0.000
9	FUNCTION2 PFK	28.14	9.508e3					2.1	NO		bb		0.000
10	FUNCTION2 PFK	32.74	8.653e3					1.8	NO		db		0.000
11	FUNCTION2 PFK	32.65	2.185e4					2.3	NO		bd		0.000
12	FUNCTION2 PFK	32.20	3.361e3					0.9	NO		bb		0.000
13	FUNCTION2 PFK	31.99	2.473e3					0.9	NO		bb		0.000
14	FUNCTION2 PFK	31.95	3.679e3					1.1	NO		bb		0.000
15	FUNCTION2 PFK	31.85	1.978e3					0.7	NO		bb		0.000
16	FUNCTION2 PFK	31.81	4.237e3					1.3	NO		bb		0.000
17	FUNCTION2 PFK	31.45	6.345e3					1.4	NO		bb		0.000
18	FUNCTION2 PFK	31.39	8.152e3					2.2	NO		bb		0.000
19	FUNCTION2 PFK	31.24	4.762e3					0.9	NO		bb		0.000
20	FUNCTION2 PFK	30.97	3.959e3					1.1	NO		bb		0.000
21	FUNCTION2 PFK	30.46	2.582e3					1.0	NO		bb		0.000
22	FUNCTION2 PFK	29.92	6.242e3					1.1	NO		bb		0.000
23	FUNCTION2 PFK	29.49	3.478e3					1.0	NO		bb		0.000
24	FUNCTION2 PFK	29.29	3.408e3					1.1	NO		bb		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.38	6.582e3					1.1	NO		bb		0.000
2	FUNCTION3 PFK	35.26	1.456e4					1.8	NO		db		0.000
3	FUNCTION3 PFK	35.20	4.967e3					1.1	NO		bd		0.000
4	FUNCTION3 PFK	34.95	2.170e3					0.5	NO		bb		0.000
5	FUNCTION3 PFK	34.85	2.796e4					1.5	NO		bb		0.000
6	FUNCTION3 PFK	34.46	2.452e4					1.9	NO		bb		0.000
7	FUNCTION3 PFK	34.35	5.336e3					1.0	NO		db		0.000
8	FUNCTION3 PFK	34.31	1.383e4					1.5	NO		bd		0.000
9	FUNCTION3 PFK	34.16	4.501e3					0.9	NO		bb		0.000
10	FUNCTION3 PFK	34.07	3.946e3					0.7	NO		bb		0.000
11	FUNCTION3 PFK	33.73	1.258e4					1.5	NO		bb		0.000
12	FUNCTION3 PFK	33.51	2.681e3					0.6	NO		bb		0.000
13	FUNCTION3 PFK	33.37	1.043e4					1.1	NO		bb		0.000
14	FUNCTION3 PFK	33.22	1.343e4					1.4	NO		bb		0.000
15	FUNCTION3 PFK	33.14	9.863e3					1.1	NO		bb		0.000
16	FUNCTION3 PFK	32.99	1.575e3					0.5	NO		bb		0.000
17	FUNCTION3 PFK	37.30	1.635e4					1.7	NO		bb		0.000
18	FUNCTION3 PFK	37.20	2.282e4					2.0	NO		db		0.000
19	FUNCTION3 PFK	37.11	1.598e4					1.5	NO		bd		0.000
20	FUNCTION3 PFK	36.97	1.052e3					0.4	NO		bb		0.000
21	FUNCTION3 PFK	36.84	1.513e4					1.6	NO		bb		0.000
22	FUNCTION3 PFK	36.74	1.110e4					1.2	NO		bb		0.000
23	FUNCTION3 PFK	36.64	1.101e4					1.1	NO		bb		0.000
24	FUNCTION3 PFK	36.54	1.536e4					1.6	NO		bb		0.000
25	FUNCTION3 PFK	36.26	1.878e4					1.6	NO		db		0.000
26	FUNCTION3 PFK	36.19	8.477e3					1.3	NO		bd		0.000
27	FUNCTION3 PFK	36.12	1.358e4					1.4	NO		bb		0.000
28	FUNCTION3 PFK	36.02	4.811e3					1.0	NO		bb		0.000
29	FUNCTION3 PFK	35.85	1.073e3					0.4	NO		bb		0.000
30	FUNCTION3 PFK	35.70	1.945e4					1.5	NO		bb		0.000
31	FUNCTION3 PFK	35.66	1.846e3					0.6	NO		bb		0.000
32	FUNCTION3 PFK	35.48	4.630e3					0.9	NO		bb		0.000
33	FUNCTION3 PFK	37.69	4.177e3					0.6	NO		bb		0.000
34	FUNCTION3 PFK	37.57	9.071e3					1.2	NO		bb		0.000
35	FUNCTION3 PFK	37.47	1.667e4					1.7	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.54	4.053e3					0.9	NO		bb		
2	FUNCTION4 PFK	39.69	6.646e3					1.0	NO		bb		
3	FUNCTION4 PFK	39.45	3.810e3					1.2	NO		bb		
4	FUNCTION4 PFK	39.09	6.723e3					1.1	NO		bb		
5	FUNCTION4 PFK	38.91	1.271e4					1.2	NO		db		
6	FUNCTION4 PFK	38.85	1.228e4					2.0	NO		bd		
7	FUNCTION4 PFK	38.69	4.493e3					1.1	NO		bb		
8	FUNCTION4 PFK	38.50	1.150e4					1.8	NO		bb		
9	FUNCTION4 PFK	38.41	2.659e3					0.8	NO		bb		
10	FUNCTION4 PFK	38.03	7.730e3					1.5	NO		bb		
11	FUNCTION4 PFK	37.96	4.895e3					0.9	NO		bb		
12	FUNCTION4 PFK	37.92	1.225e3					0.6	NO		bb		
13	FUNCTION4 PFK	42.03	1.052e4					1.8	NO		bb		
14	FUNCTION4 PFK	41.82	5.353e3					1.3	NO		bb		
15	FUNCTION4 PFK	40.77	1.114e3					0.6	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:22 Pacific Daylight Time

ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, 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	44.51	3.322e3					1.7	NO		bd		
2	FUNCTION5 PFK	44.39	2.811e3					1.1	NO		bb		
3	FUNCTION5 PFK	44.09	2.799e3					1.3	NO		bb		
4	FUNCTION5 PFK	43.87	1.943e3					0.9	NO		bb		
5	FUNCTION5 PFK	43.73	5.119e2					0.5	NO		bb		
6	FUNCTION5 PFK	43.54	4.184e3					1.5	NO		db		
7	FUNCTION5 PFK	43.51	2.586e3					1.1	NO		bd		
8	FUNCTION5 PFK	43.37	5.977e3					1.7	NO		bb		
9	FUNCTION5 PFK	43.19	5.576e3					2.0	NO		bb		
10	FUNCTION5 PFK	43.15	4.751e2					0.5	NO		bb		
11	FUNCTION5 PFK	43.11	1.034e3					1.0	NO		bb		
12	FUNCTION5 PFK	43.07	1.440e3					0.7	NO		bb		
13	FUNCTION5 PFK	45.89	7.846e3					1.7	NO		bb		
14	FUNCTION5 PFK	45.84	1.480e3					0.8	NO		bb		
15	FUNCTION5 PFK	45.52	5.256e2					0.5	NO		bb		
16	FUNCTION5 PFK	45.48	3.737e3					1.6	NO		bb		
17	FUNCTION5 PFK	45.29	7.726e3					1.4	NO		bb		
18	FUNCTION5 PFK	45.14	3.376e3					1.2	NO		bb		
19	FUNCTION5 PFK	45.07	3.586e3					1.3	NO		bb		
20	FUNCTION5 PFK	44.70	2.331e3					1.3	NO		bb		
21	FUNCTION5 PFK	44.64	7.706e3					1.5	NO		db		
22	FUNCTION5 PFK	44.55	1.307e4					2.4	NO		dd		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.22	1.033e2					1.6	NO		bb		0.000
2	FUNCTION1 HXCD...	26.31	1.040e2					2.0	NO		db		0.000
3	FUNCTION1 HXCD...	26.25	8.660e1					1.9	NO		bd		0.000
4	FUNCTION1 HXCD...	21.32	1.583e2					1.9	NO		db		0.000
5	FUNCTION1 HXCD...	21.21	8.642e1					1.6	NO		bd		0.000

ETHERS2

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

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
Printed: Thursday, July 27, 2023 11:28:22 Pacific Daylight Time

ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.01	7.069e1					1.5	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.45	7.901e1					1.6	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.30	8.742e1					4.4	YES		bb		0.000
2	FUNCTION4 NCDPE	37.84	7.051e1					2.4	NO		bb		0.000

ETHERS6

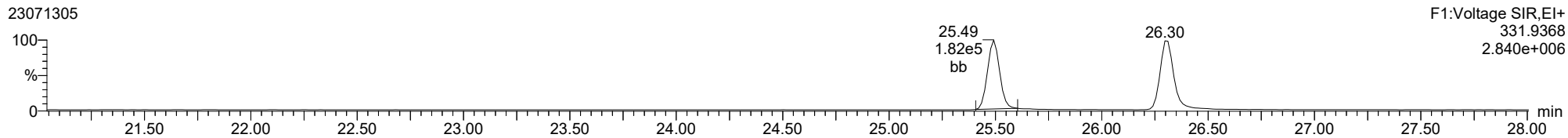
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

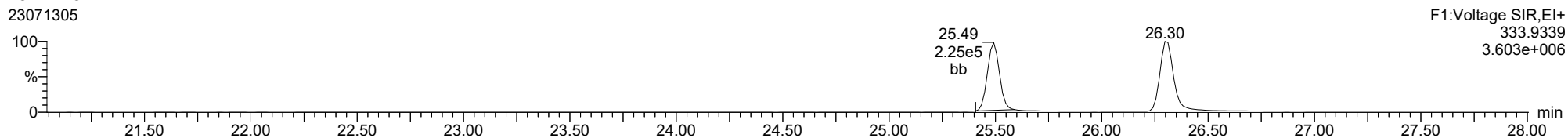
13C-1234-TCDD

23071305



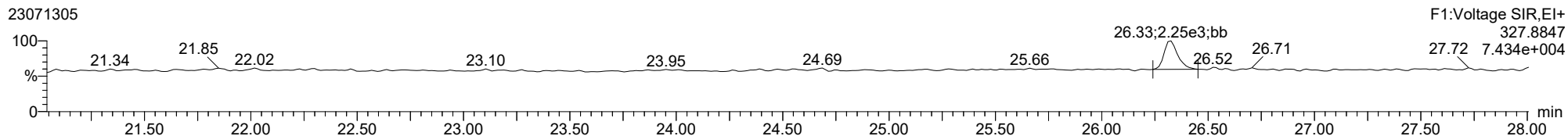
13C-1234-TCDD

23071305



37CL-2378-TCDD

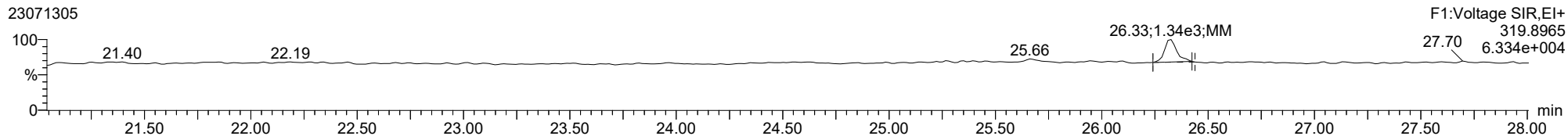
23071305



ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

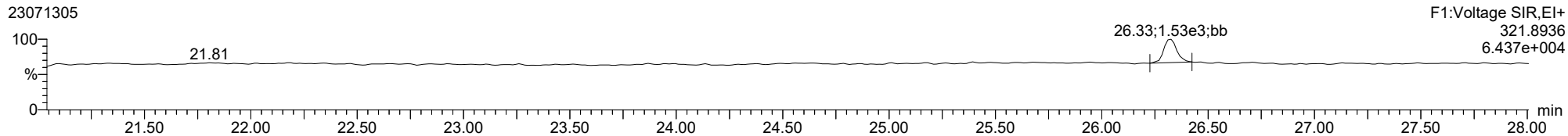
2378-TCDD

23071305



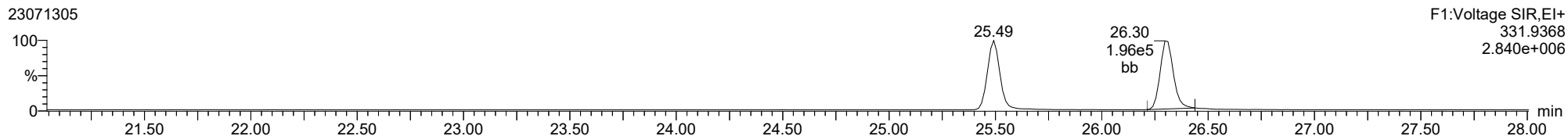
2378-TCDD

23071305



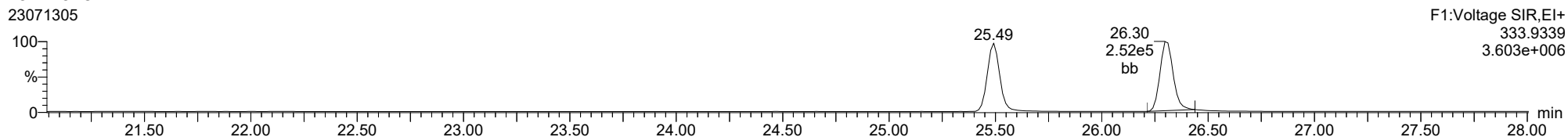
13C-2378-TCDD

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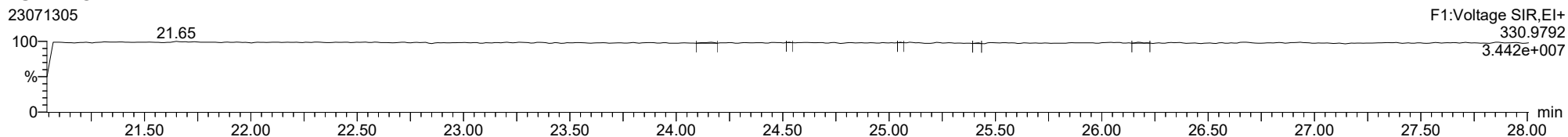
13C-2378-TCDD

23071305



FUNCTION1 PFK

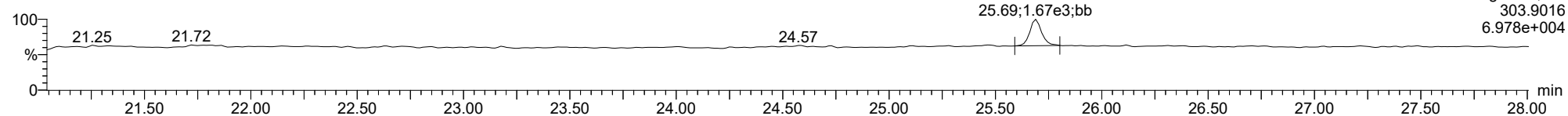
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

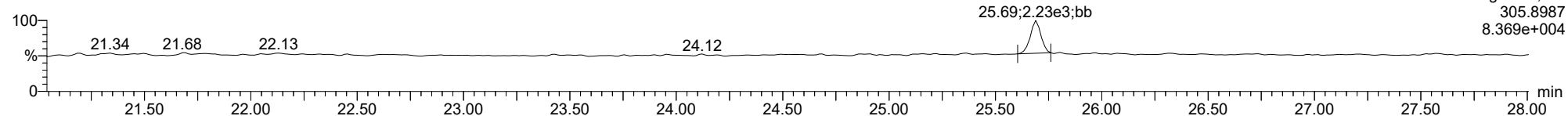
2378-TCDF

23071305



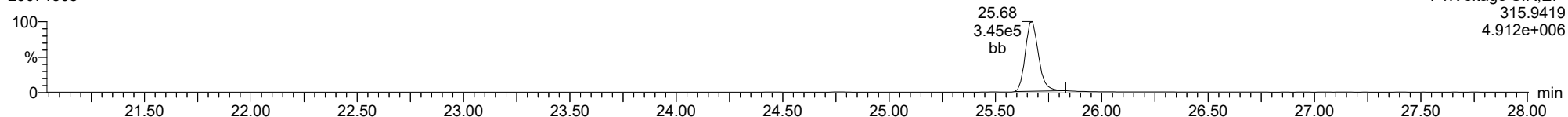
2378-TCDF

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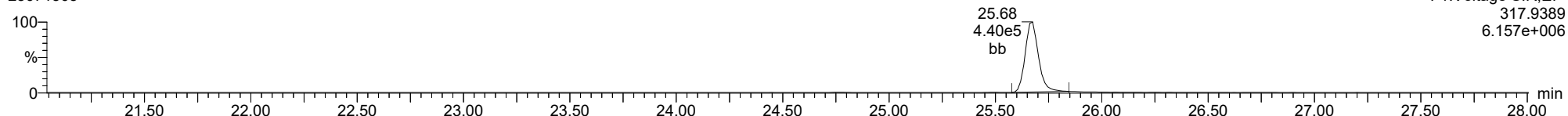
13C-2378-TCDF

23071305



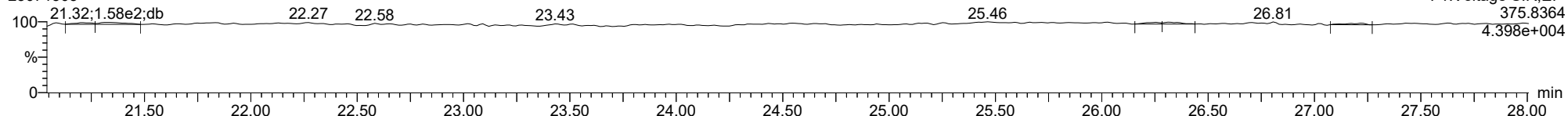
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23071305



FUNCTION1 HXCDPE

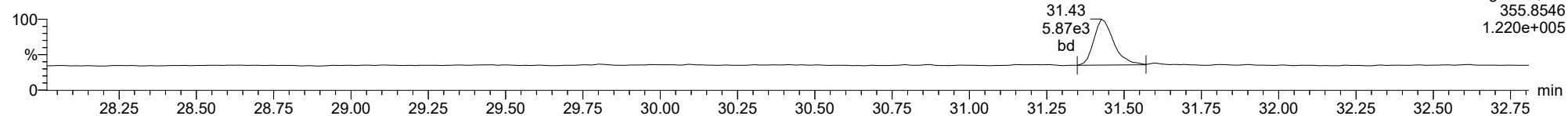
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

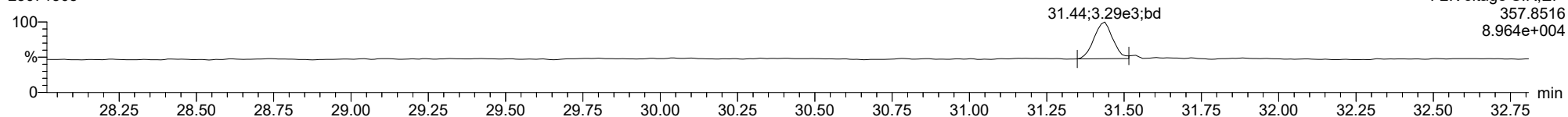
12378-PeCDD

23071305



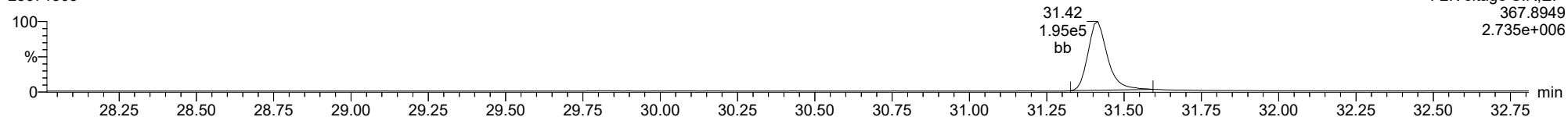
12378-PeCDD

23071305



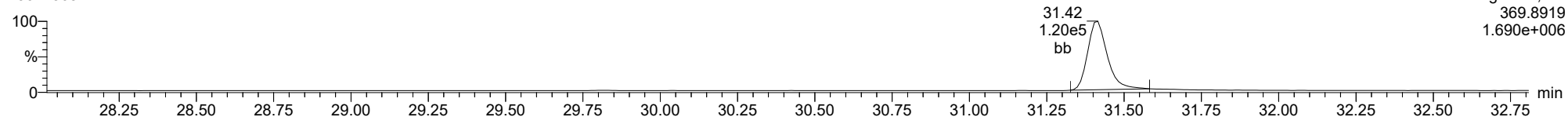
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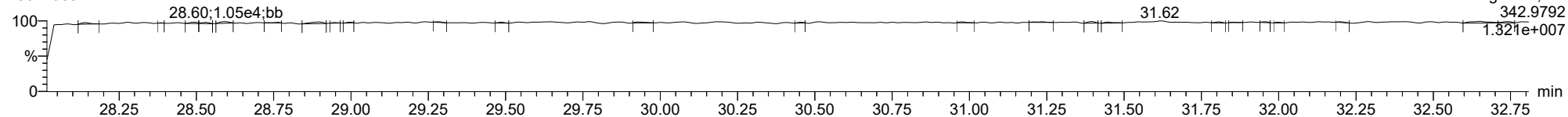
13C-12378-PeCDD

23071305



FUNCTION2 PFK

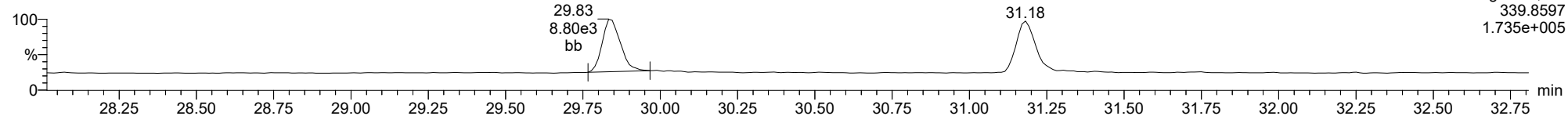
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

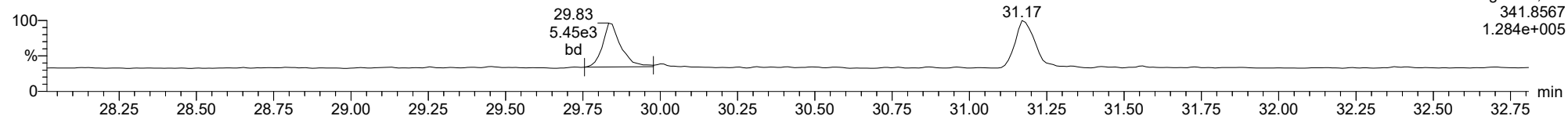
12378-PeCDF

23071305



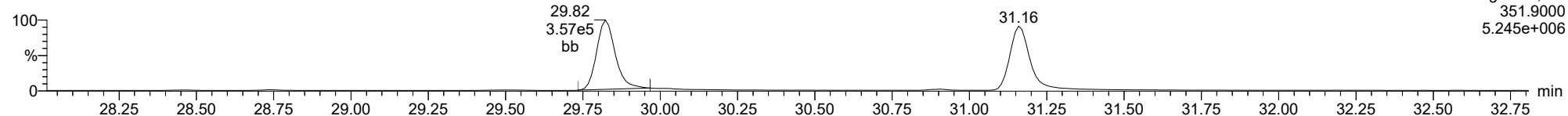
12378-PeCDF

23071305



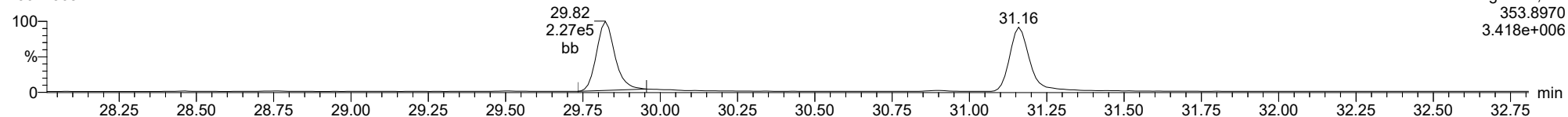
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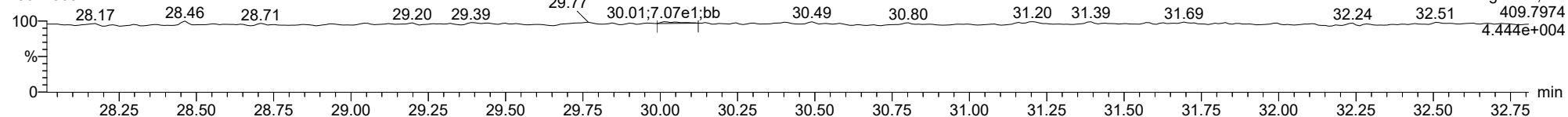
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23071305



FUNCTION2 HPCDPE

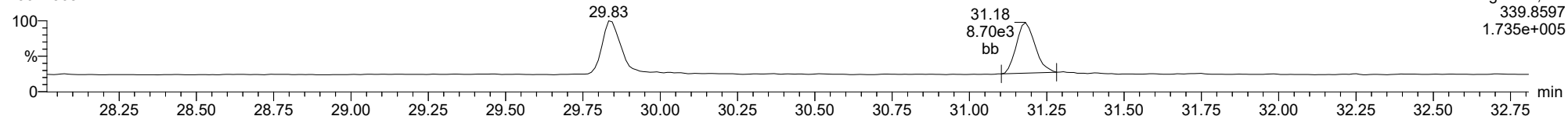
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

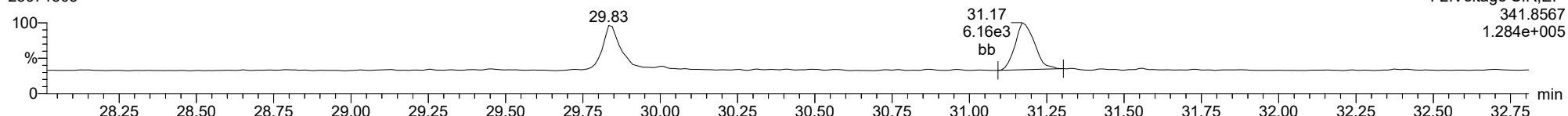
23478-PeCDF

23071305



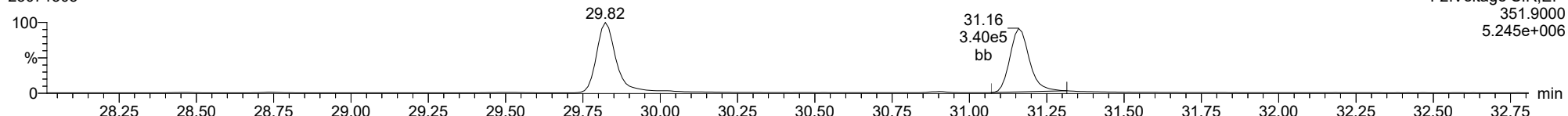
23478-PeCDF

23071305



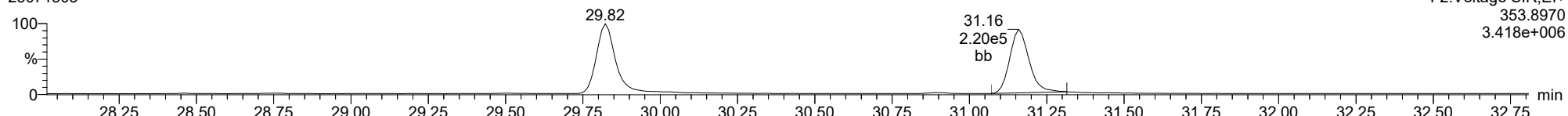
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23071305



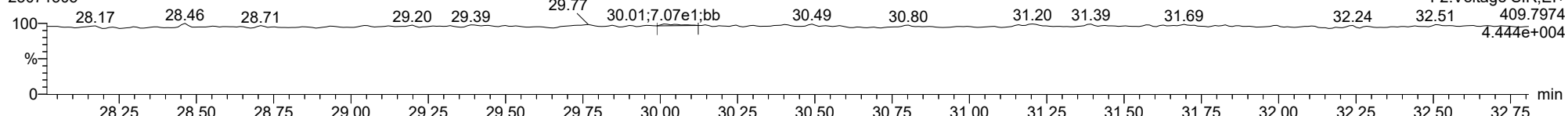
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23071305



FUNCTION2 HPCDPE

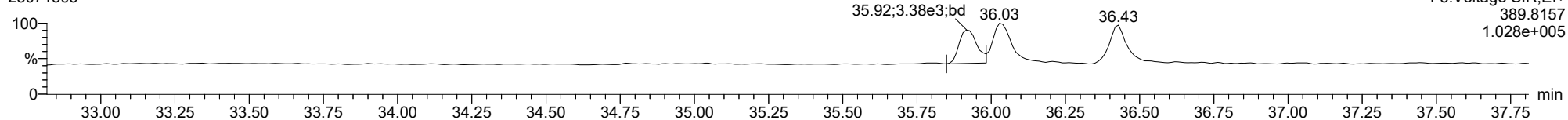
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

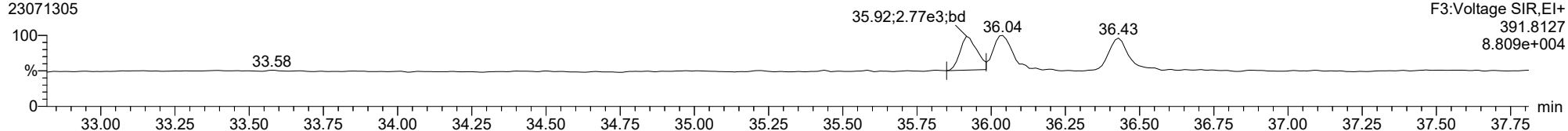
123478-HxCDD

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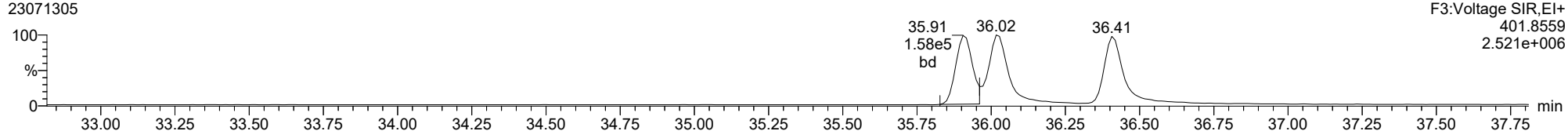
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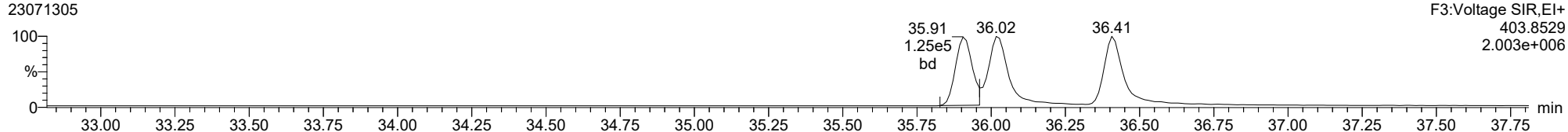
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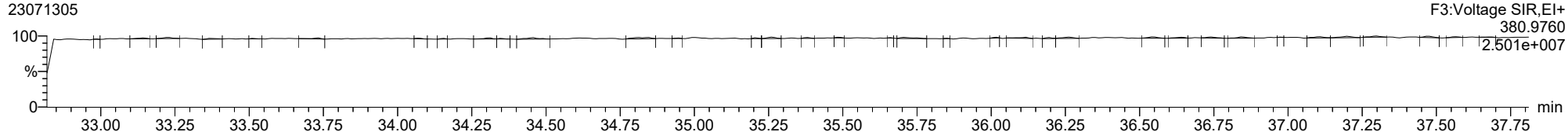
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FUNCTION3 PFK

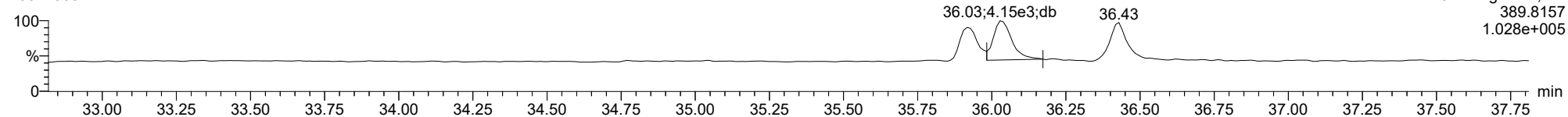
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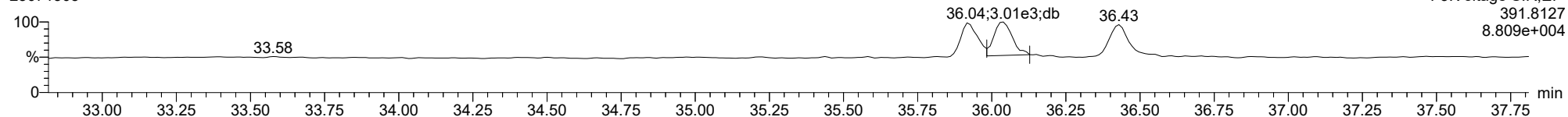
123678-HxCDD

23071305



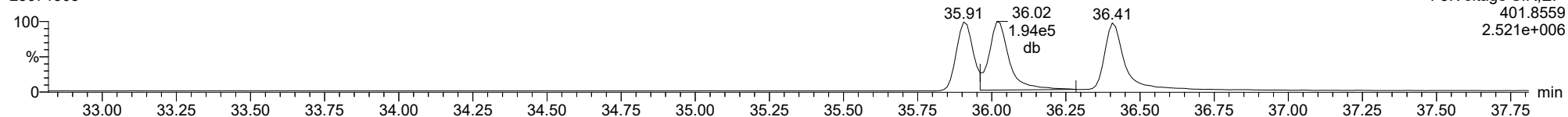
123678-HxCDD

23071305



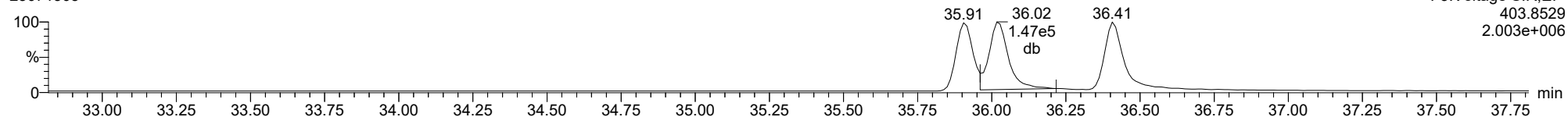
13C-123678-HxCDD

23071305



13C-123678-HxCDD

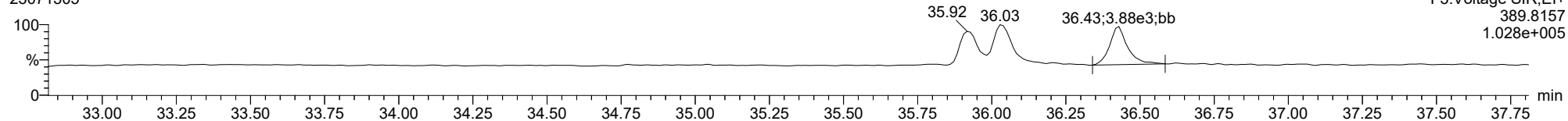
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

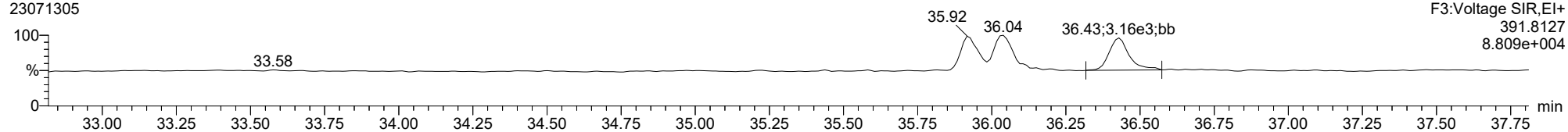
123789-HxCDD

23071305



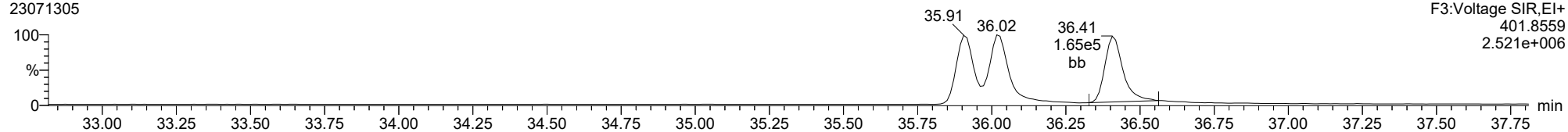
123789-HxCDD

23071305



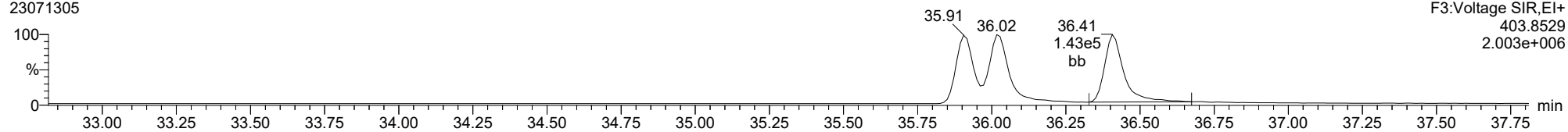
13C-123789-HxCDD

23071305



13C-123789-HxCDD

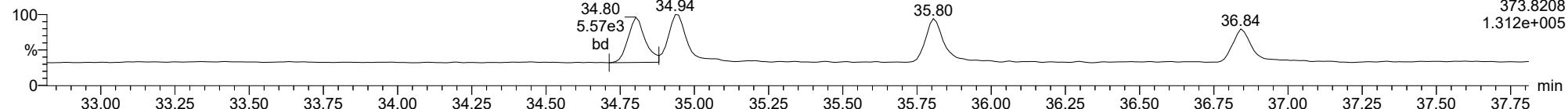
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

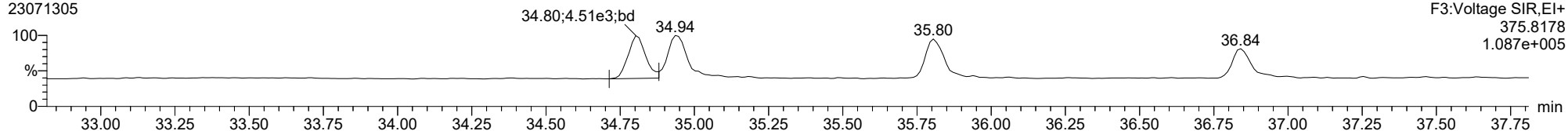
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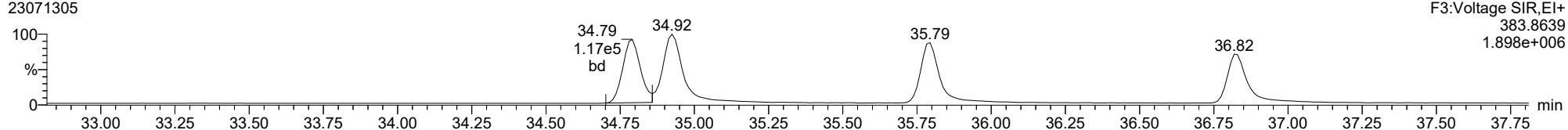
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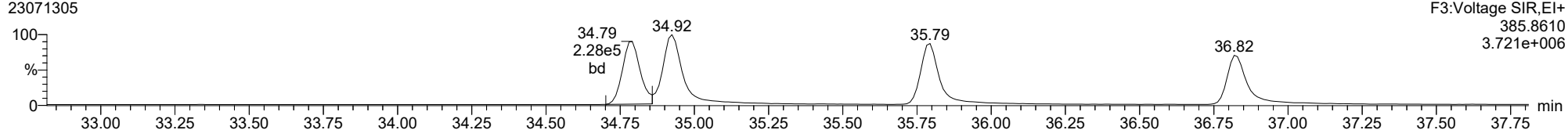
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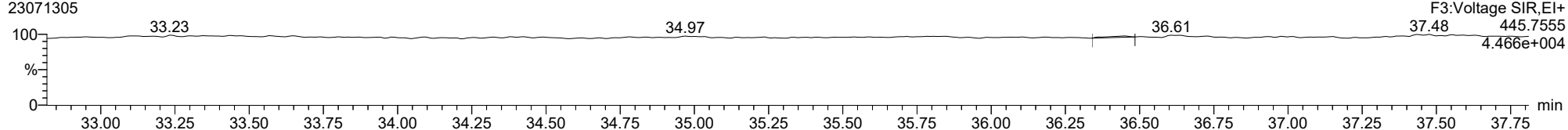
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23071305



FUNCTION3 OCDPE

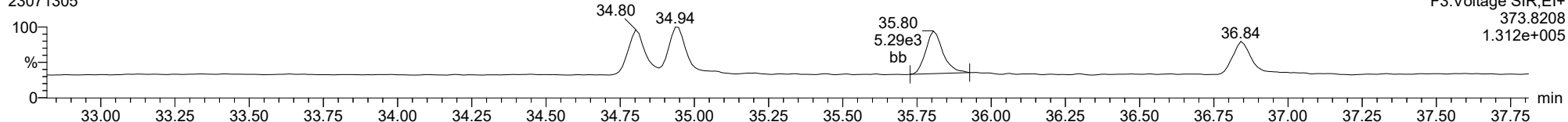
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

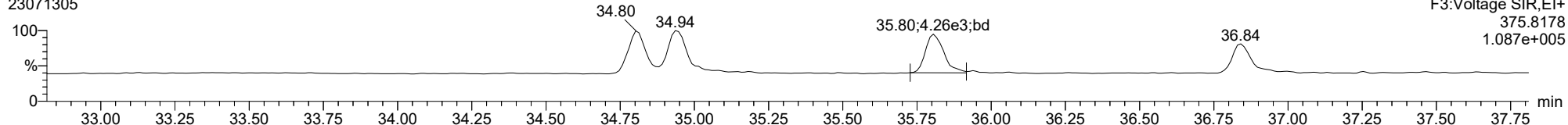
234678-HxCDF

23071305



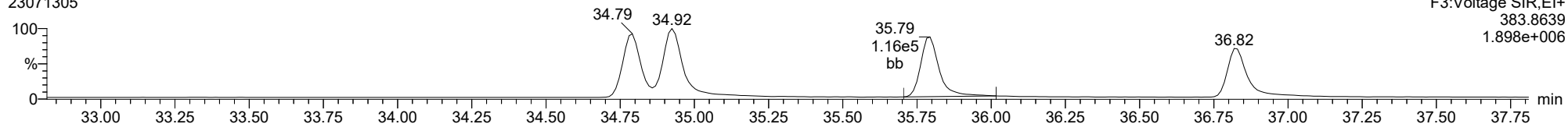
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23071305



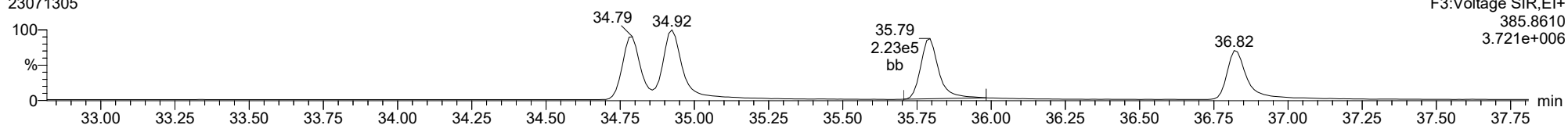
13C-234678-HxCDF

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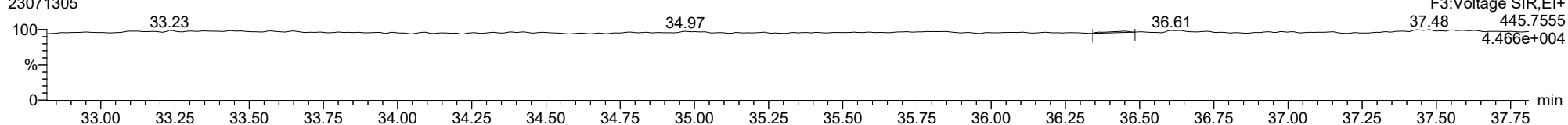
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23071305



FUNCTION3 OCDPE

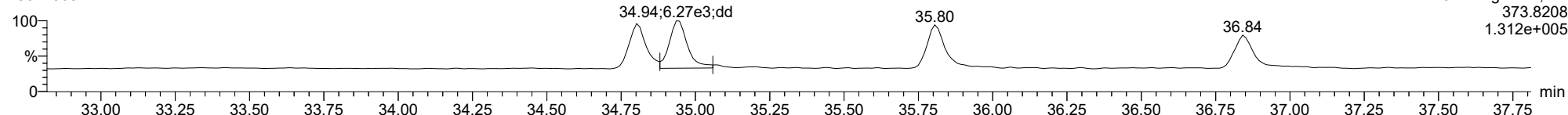
23071305



ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

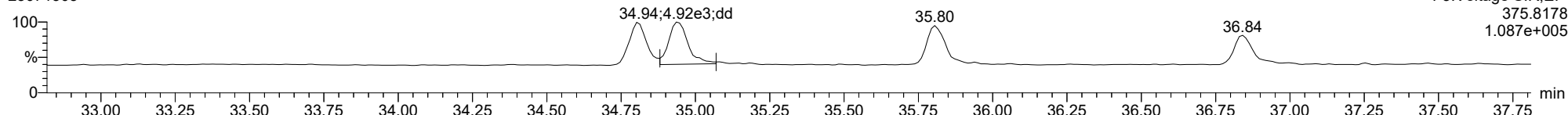
123678-HxCDF

23071305



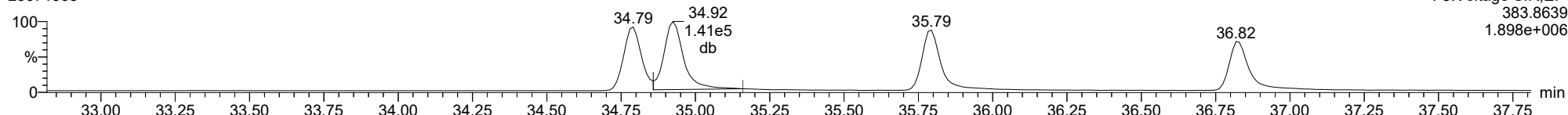
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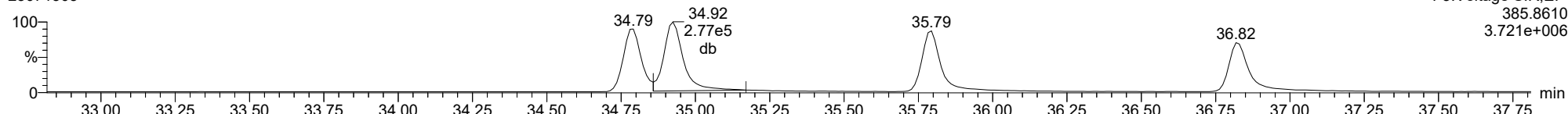
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23071305



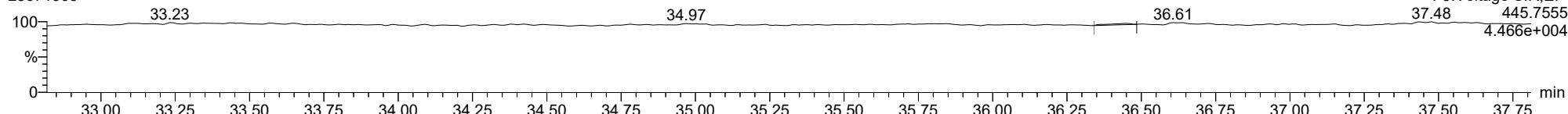
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23071305



FUNCTION3 OCDPE

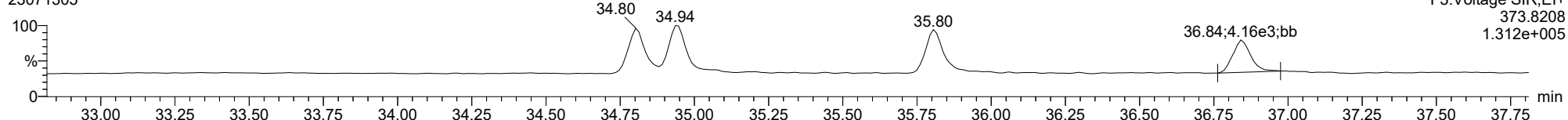
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

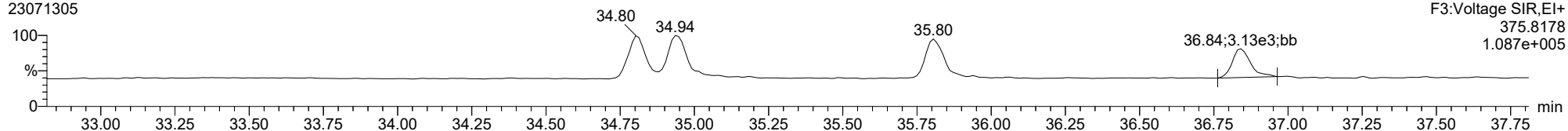
123789-HxCDF

23071305



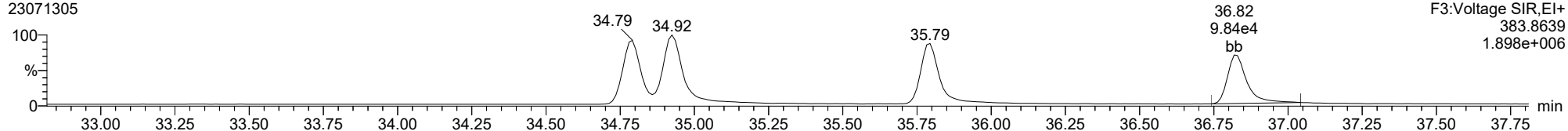
123789-HxCDF

23071305



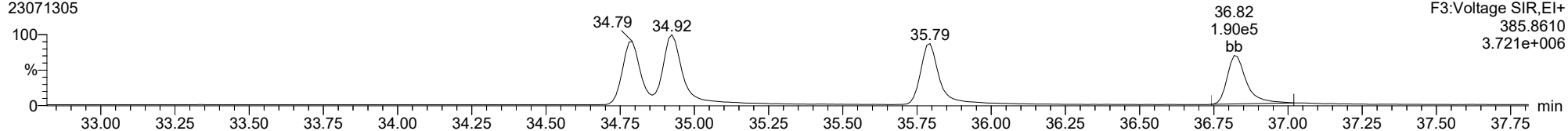
13C-123789-HxCDF

23071305



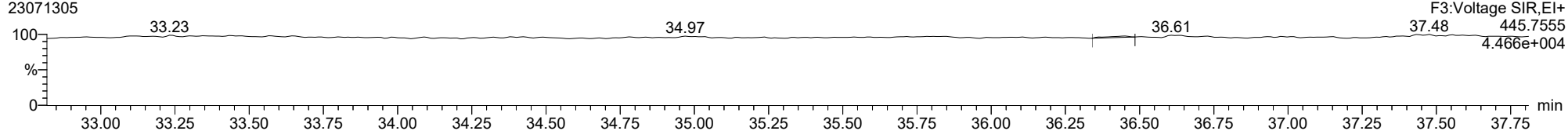
13C-123789-HxCDF

23071305



FUNCTION3 OCDPE

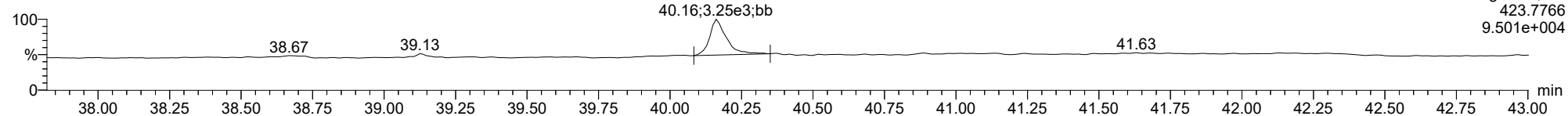
23071305



ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

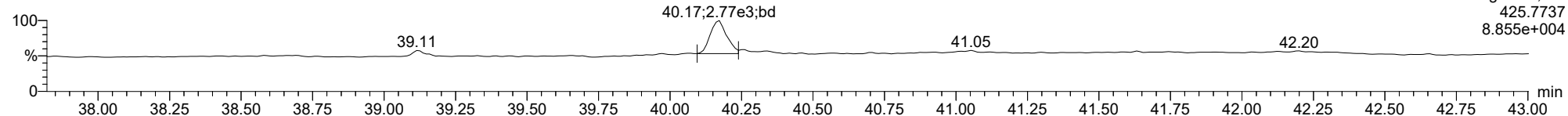
1234678-HpCDD

23071305



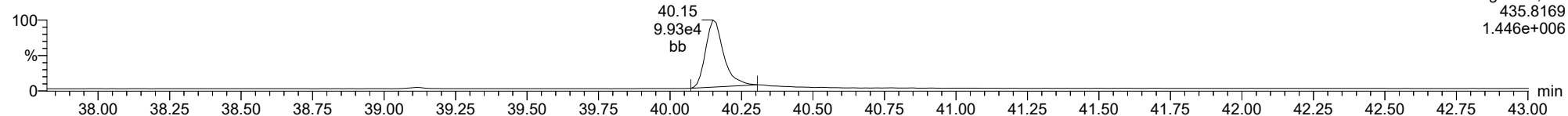
1234678-HpCDD

23071305



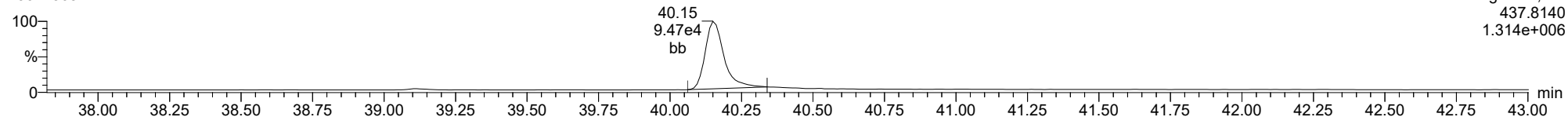
13C-1234678-HpCDD

23071305



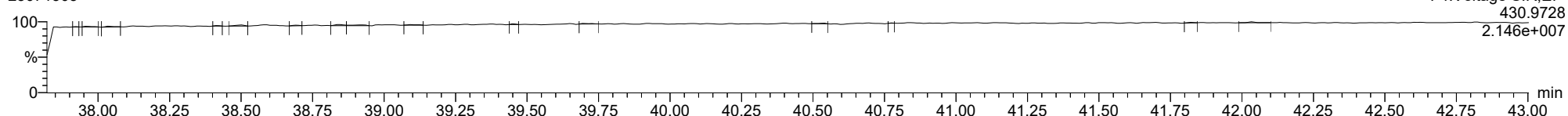
13C-1234678-HpCDD

23071305



FUNCTION4 PFK

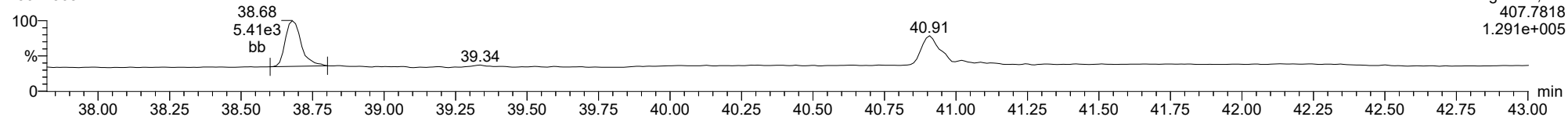
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

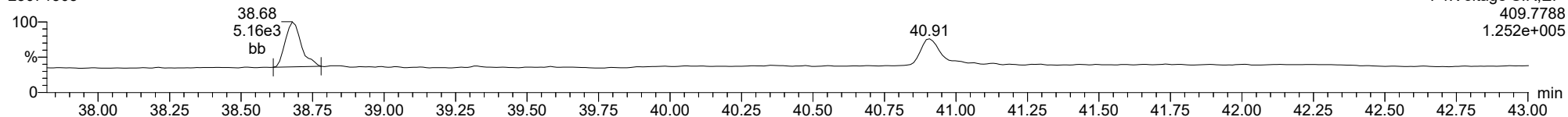
1234678-HpCDF

23071305



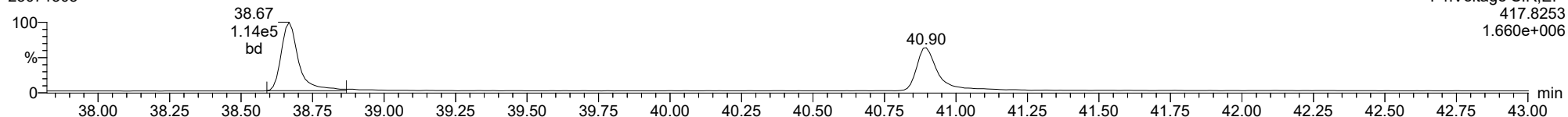
1234678-HpCDF

23071305



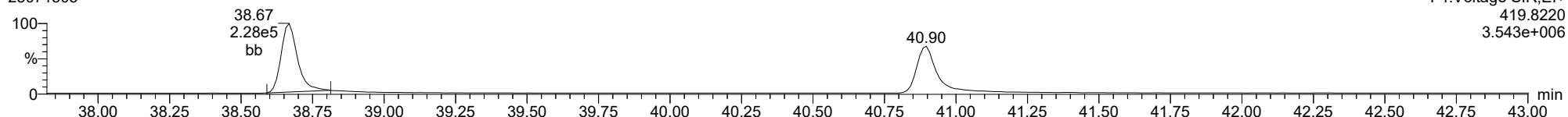
13C-1234678-HpCDF

23071305



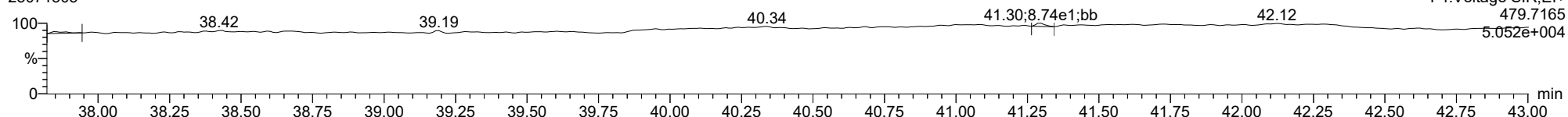
13C-1234678-HpCDF

23071305



FUNCTION4 NCDPE

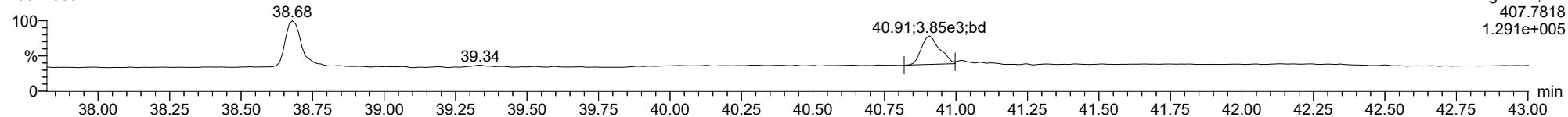
23071305



ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

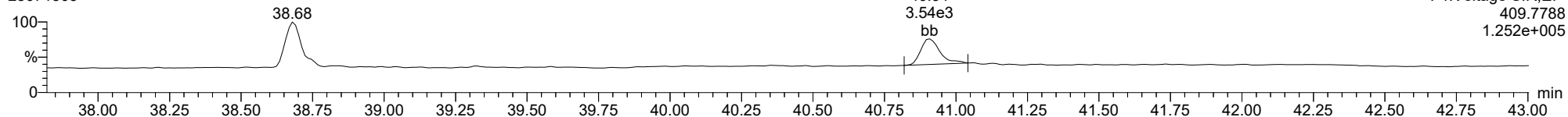
1234789-HpCDF

23071305



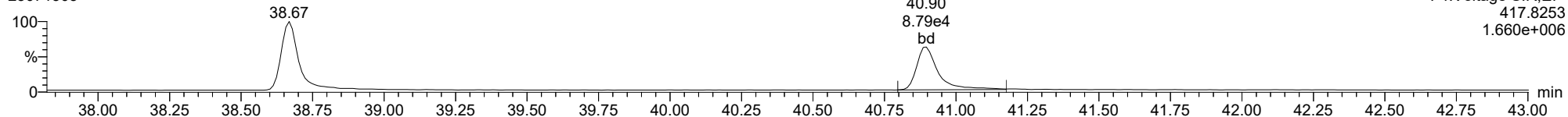
1234789-HpCDF

23071305



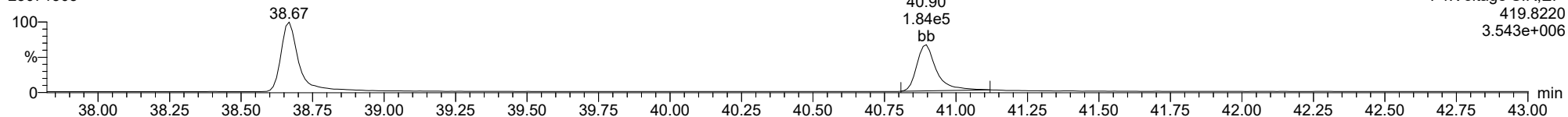
13C-1234789-HpCDF

23071305



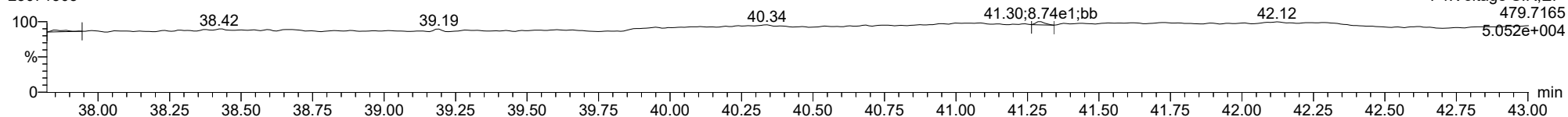
13C-1234789-HpCDF

23071305



FUNCTION4 NCDPE

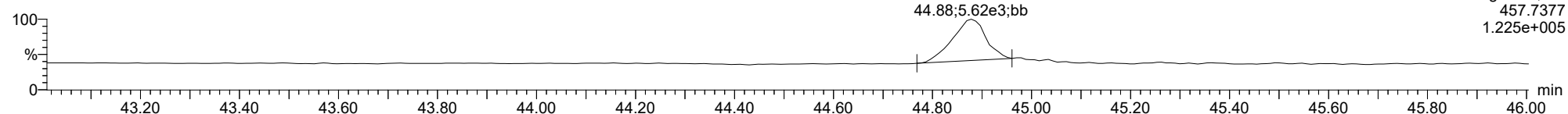
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

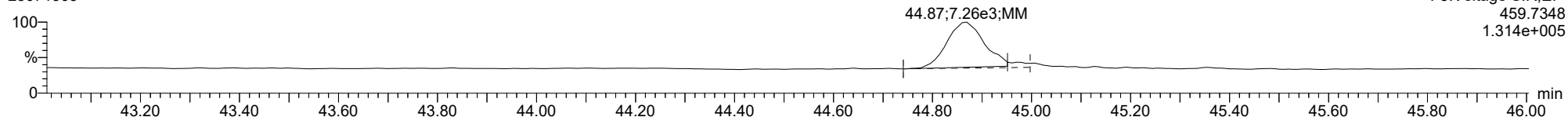
OCDD

23071305



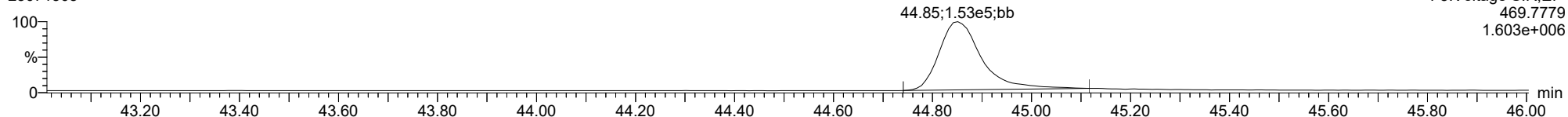
OCDD

23071305



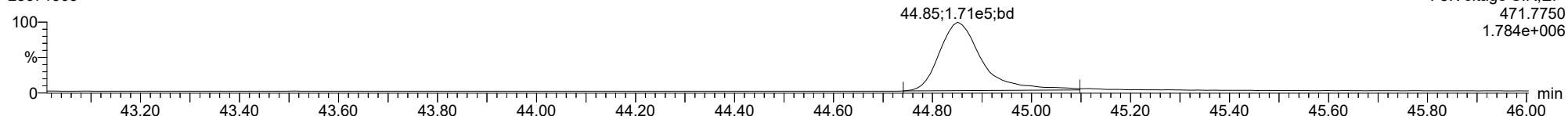
13C-OCDD

23071305



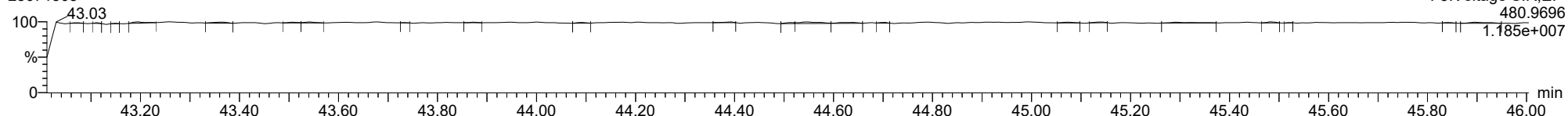
13C-OCDD

23071305



FUNCTION5 PFK

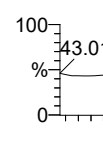
23071305



ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

OCDF

23071305



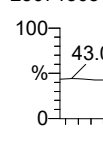
45.11;5.58e3;bd

45.26

F5:Voltage SIR,EI+
441.7428
1.075e+005

OCDF

23071305

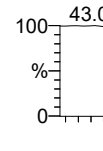


45.11;5.80e3;bd

F5:Voltage SIR,EI+
443.7399
1.092e+005

FUNCTION5 DCDPE

23071305



43.07

44.13

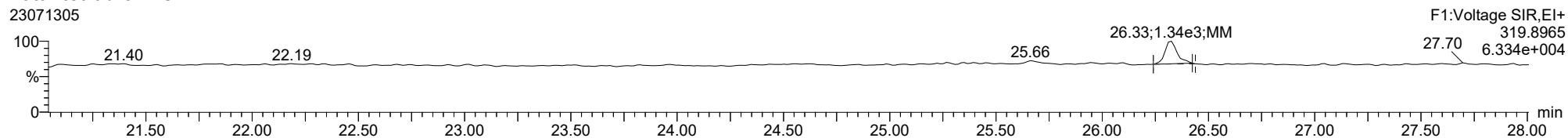
44.73

F5:Voltage SIR,EI+
513.6775
4.713e+004

ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

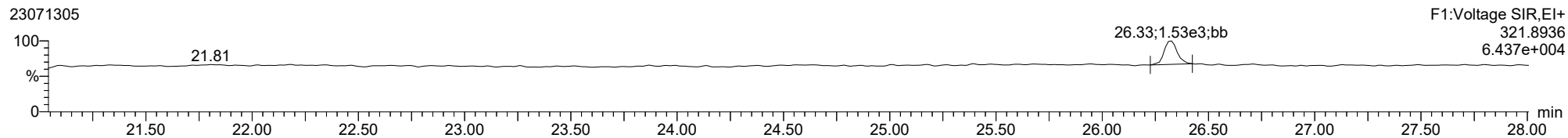
Total-tetradoxins

23071305



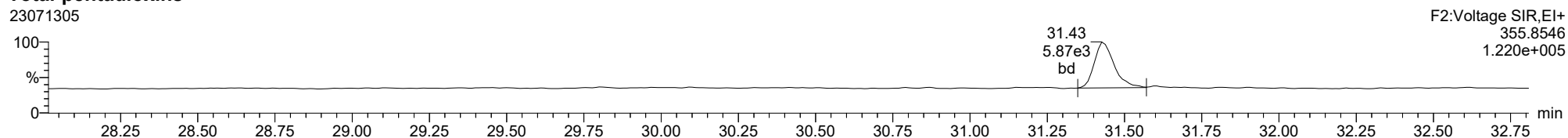
Total-tetradoxins

23071305



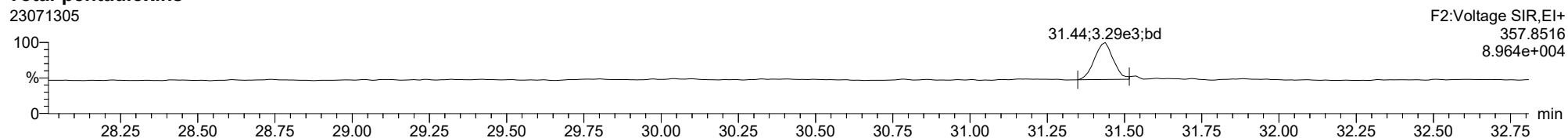
Total-pentadoxins

23071305



Total-pentadoxins

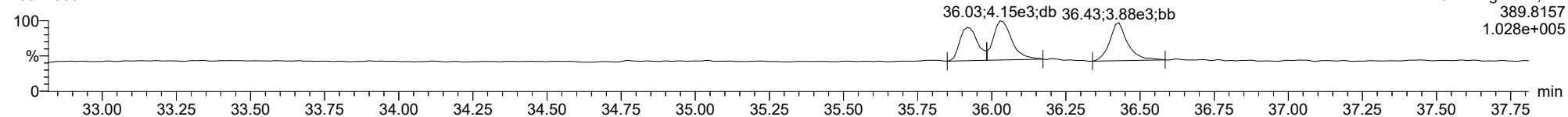
23071305



ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

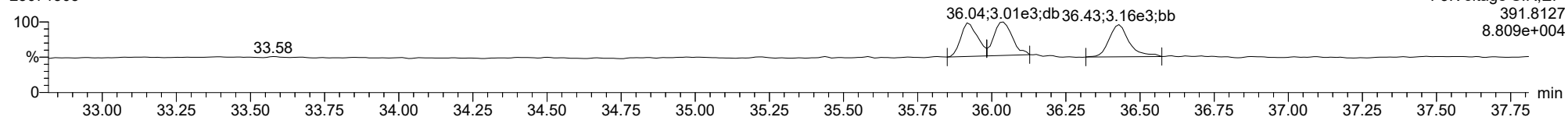
Total-hexadioxins

23071305



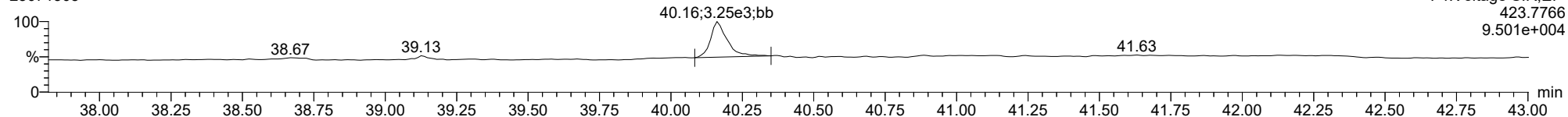
Total-hexadioxins

23071305



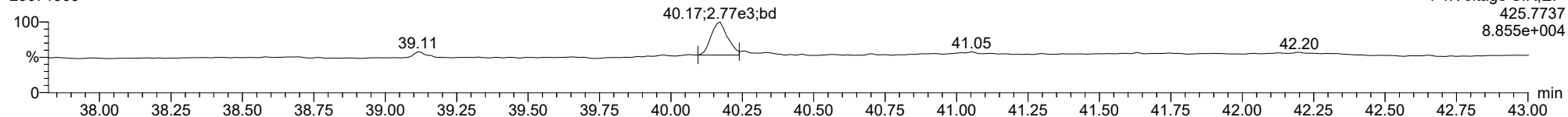
Total-heptadioxins

23071305



Total-heptadioxins

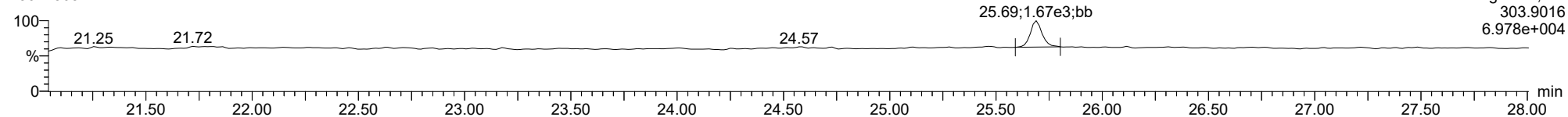
23071305



ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

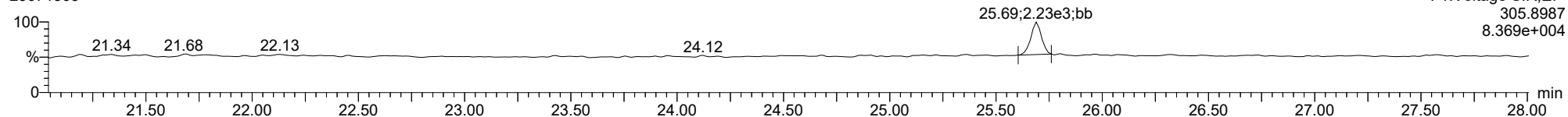
Total-tetrafurans

23071305



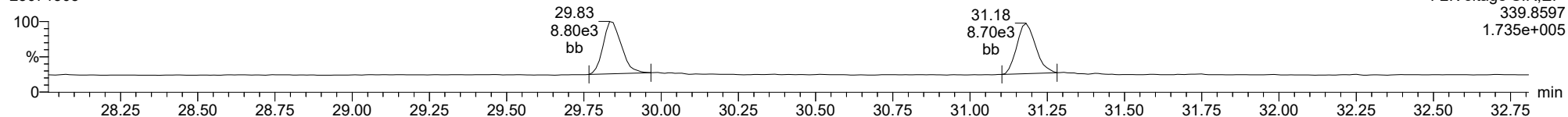
Total-tetrafurans

23071305



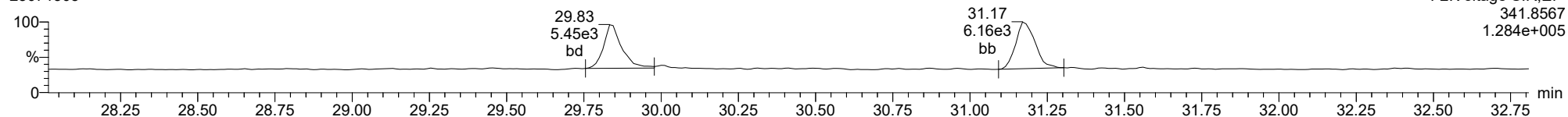
Total-pentafurans

23071305



Total-pentafurans

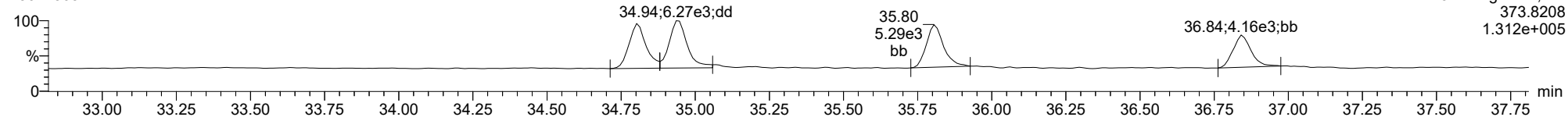
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ID: CS1CA, Name: 23071305, Date: 13-Jul-2023, Time: 12:53:26, Conditions: AUTOSPEC01, User: pk

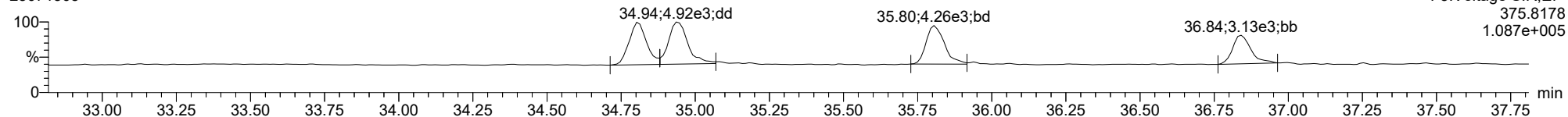
Total-hexafurans

23071305



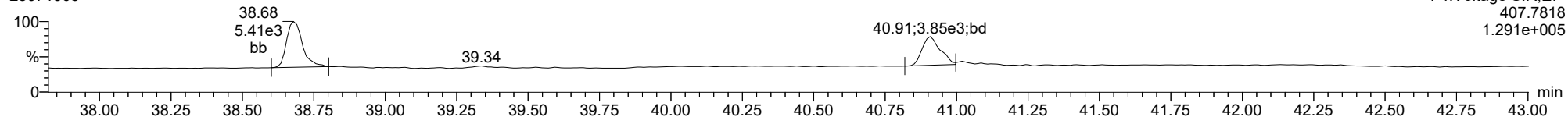
Total-hexafurans

23071305



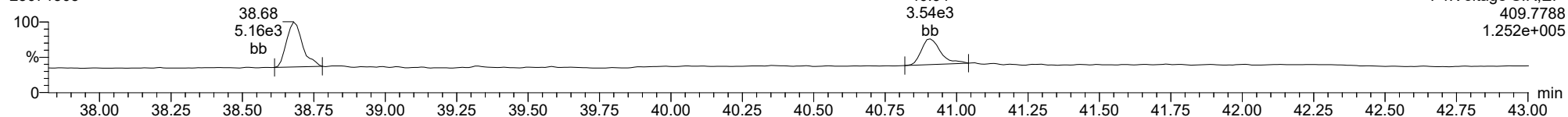
Total-heptafurans

23071305



Total-heptafurans

23071305



Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:39 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, 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	25.690	1.001	5.619e3	7.259e3	0.951	0.774	0.770	608	845	7.64e4	1.02e5	125.6	121.0	NO	bb	bd	1.973
12378-PeCDF	29.844	1.001	2.890e4	1.782e4	0.963	1.622	1.550	1269	1044	3.82e5	2.55e5	301.1	244.2	NO	bd	bb	9.783
23478-PeCDF	31.170	1.000	2.876e4	1.867e4	1.072	1.540	1.550	1269	1044	4.00e5	2.56e5	315.4	245.0	NO	bb	bd	9.645
123478-HxCDF	34.791	1.000	1.722e4	1.379e4	1.142	1.249	1.240	837	705	2.52e5	2.00e5	300.9	283.2	NO	bd	bd	9.903
234678-HxCDF	35.805	1.001	1.702e4	1.366e4	1.138	1.246	1.240	837	705	2.38e5	1.88e5	284.1	266.6	NO	bd	bd	9.956
123678-HxCDF	34.936	1.001	2.009e4	1.596e4	1.100	1.259	1.240	837	705	2.53e5	2.00e5	302.4	283.7	NO	dd	dd	9.752
123789-HxCDF	36.841	1.001	1.262e4	1.051e4	1.066	1.200	1.240	837	705	1.65e5	1.35e5	196.7	191.5	NO	bb	bd	9.350
1234678-HpCDF	38.680	1.001	1.474e4	1.488e4	1.210	0.990	1.050	1000	1095	2.26e5	2.19e5	226.0	199.8	NO	bb	bd	10.240
1234789-HpCDF	40.897	1.000	1.105e4	1.137e4	1.213	0.971	1.050	1000	1095	1.41e5	1.32e5	140.6	120.4	NO	bb	bd	10.530
OCDF	45.108	1.006	1.456e4	1.599e4	1.391	0.910	0.890	901	1099	1.48e5	1.67e5	164.4	151.5	NO	bd	bd	20.258
2378-TCDD	26.325	1.001	4.027e3	4.668e3	1.197	0.863	0.770	692	469	5.75e4	6.66e4	83.2	142.0	NO	bb	bb	1.953
12378-PeCDD	31.427	1.000	1.619e4	1.081e4	1.129	1.498	1.550	576	596	2.28e5	1.40e5	395.4	235.3	NO	bd	bb	9.584
123478-HxCDD	35.917	1.000	1.138e4	8.673e3	0.917	1.312	1.240	930	776	1.72e5	1.29e5	185.0	166.3	NO	bd	bd	10.094
123678-HxCDD	36.039	1.001	1.289e4	1.087e4	0.944	1.186	1.240	930	776	1.70e5	1.43e5	182.3	183.8	NO	db	dd	9.998
123789-HxCDD	36.418	1.011	1.084e4	8.853e3	0.869	1.224	1.240	930	776	1.48e5	1.21e5	159.1	155.7	NO	bd	bd	9.675
1234678-HpCDD	40.162	1.000	7.913e3	8.064e3	1.237	0.981	1.050	820	779	1.10e5	1.03e5	133.9	132.3	NO	bd	bd	9.323
OCDD	44.861	1.000	1.188e4	1.326e4	1.212	0.895	0.890	1321	1144	1.30e5	1.48e5	98.3	129.3	NO	bd	bd	19.122
13C-2378-TCDF	25.661	1.007	3.042e5	3.820e5	1.920	0.796	0.770	1283	1133	4.09e6	5.20e6	3186.6	4591.3	NO	bb	bb	98.832
13C-12378-PeCDF	29.822	1.170	3.104e5	1.855e5	1.455	1.673	1.550	2547	1788	4.11e6	2.59e6	1613.1	1447.5	NO	bd	bb	94.236
13C-23478-PeCDF	31.159	1.222	2.818e5	1.769e5	1.363	1.593	1.550	2547	1788	3.81e6	2.40e6	1494.7	1345.0	NO	bb	bb	93.073
13C-123478-HxCDF	34.780	0.955	9.454e4	1.798e5	1.119	0.526	0.510	1323	2464	1.36e6	2.66e6	1029.9	1079.5	NO	bd	bd	113.522
13C-123678-HxCDF	34.914	0.959	1.136e5	2.226e5	1.343	0.511	0.510	1323	2464	1.41e6	2.73e6	1067.2	1109.0	NO	dd	dd	115.917
13C-234678-HxCDF	35.783	0.983	8.977e4	1.812e5	1.113	0.496	0.510	1323	2464	1.26e6	2.42e6	950.3	982.8	NO	bb	bb	112.745
13C-123789-HxCDF	36.819	1.011	8.059e4	1.514e5	0.959	0.532	0.510	1323	2464	9.95e5	1.92e6	752.1	780.6	NO	bb	bb	112.043
13C-1234678-HpCDF	38.658	1.062	7.376e4	1.653e5	1.058	0.446	0.440	2189	2186	1.06e6	2.43e6	483.9	1112.3	NO	bb	bb	104.586
13C-1234789-HpCDF	40.886	1.123	5.419e4	1.214e5	0.809	0.447	0.440	2189	2186	6.88e5	1.50e6	314.3	688.4	NO	bb	bb	100.532
13C-1234-TCDD	25.492	0.000	1.604e5	2.012e5	1.000	0.797	0.770	1312	1111	2.35e6	2.94e6	1794.3	2647.7	NO	bb	bb	100.000
13C-2378-TCDD	26.297	1.032	1.624e5	2.098e5	1.104	0.774	0.770	1312	1111	2.29e6	2.95e6	1747.1	2651.5	NO	bb	bb	93.174
13C-12378-PeCDD	31.416	1.232	1.582e5	9.124e4	0.770	1.734	1.550	1037	943	1.97e6	1.25e6	1899.5	1322.4	NO	bb	bb	89.560
13C-123478-HxCDD	35.905	0.986	1.195e5	9.710e4	0.959	1.230	1.240	1575	1345	1.82e6	1.45e6	1153.8	1080.2	NO	bd	bd	104.540
13C-123678-HxCDD	36.017	0.989	1.377e5	1.141e5	1.120	1.208	1.240	1575	1345	1.75e6	1.42e6	1108.0	1058.3	NO	db	dd	104.086
13C-1234678-HpCDD	40.151	1.103	6.899e4	6.957e4	0.640	0.992	1.050	1237	1437	9.21e5	8.40e5	744.1	584.3	NO	bb	bb	100.186
13C-OCDD	44.842	1.232	1.011e5	1.158e5	0.555	0.873	0.890	1596	1919	1.07e6	1.15e6	669.7	596.8	NO	bb	bb	180.822
13C-123789-HxCDD	36.407	0.000	1.198e5	9.624e4	1.000	1.244	1.240	1575	1345	1.67e6	1.35e6	1063.3	1006.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.325	1.033	7.154e3		1.129			979		1.05e5		107.3			bb		1.751

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:39 Pacific Daylight Time

ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, 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					1.201		0.770	608	845								
1289-TCDF					0.950		0.770	608	845								
13468-PECDF					1.142		1.550	467	565								
12389-PECDF					0.917		1.550	1269	1044								
123468-HXCDF					1.332		1.240	837	705								
1368-TCDD					1.148		0.770	692	469								
1289-TCDD					0.955		0.770	692	469								
12479-PECDD					2.043		1.550	576	596								
12389-PECDD					1.326		1.550	576	596								
124679-HXCDD					1.104		1.240	930	776								
1234679-HPCDD					1.554		1.050	820	779								
Total-tetrafurans			5.619e3		1.034			608		7.64e4							1.973
Total-penta1			0.000e0					467		0.00e0							
Total-pentafurans			5.766e4		0.984			1269		7.82e5							19.428
Total-hexafurans			6.696e4		1.155			837		9.08e5							38.961
Total-heptafurans			2.615e4		1.211			1000		3.70e5							21.050
Total-Furans			1.710e5		1.119			608		2.28e6							101.669
Total-tetradoxins			4.027e3		1.100			692		5.75e4							1.953
Total-pentadoxins			1.619e4		1.499			576		2.28e5							9.584
Total-hexadoxins			3.511e4		0.958			930		4.90e5							29.767
Total-heptadoxins			7.913e3		1.396			820		1.10e5							9.323
Total-Dioxins			7.512e4		1.203			692		1.01e6							69.748
Total-TEQ			2.461e5					692		3.30e6							171.417
FUNCTION1 PFK			1.681e5					216282		4.54e6							
FUNCTION2 PFK			5.551e4					127140		1.84e6							0.000
FUNCTION3 PFK			1.821e5					170146		5.10e6							0.000
FUNCTION4 PFK			5.469e4					151540		2.06e6							
FUNCTION5 PFK			5.029e4					99490		2.40e6							
FUNCTION1 HXCD...			0.000e0					452		0.00e0							
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			2.645e2					668		4.15e3							0.000
FUNCTION3 OCDPE			0.000e0					645		0.00e0							
FUNCTION4 NCDPE			8.992e1					508		1.25e3							0.000
FUNCTION5 DCDPE			0.000e0					529		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
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Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42

Calibration: 27 Jul 2023 11:25:35

ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, 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	25.69	5.619e3	7.259e3	0.951	0.77	0.77	125.6	YES	NO	bb	bd	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	12378-PeCDF	29.84	2.890e4	1.782e4	0.963	1.62	1.55	301.1	YES	NO	bd	bb	9.783
2	23478-PeCDF	31.17	2.876e4	1.867e4	1.072	1.54	1.55	315.4	YES	NO	bb	bd	9.645

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	34.94	2.009e4	1.596e4	1.100	1.26	1.24	302.4	YES	NO	dd	dd	9.752
2	123478-HxCDF	34.79	1.722e4	1.379e4	1.142	1.25	1.24	300.9	YES	NO	bd	bd	9.903
3	123789-HxCDF	36.84	1.262e4	1.051e4	1.066	1.20	1.24	196.7	YES	NO	bb	bd	9.350
4	234678-HxCDF	35.81	1.702e4	1.366e4	1.138	1.25	1.24	284.1	YES	NO	bd	bd	9.956

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	41.11	3.725e2	3.299e2	1.211	1.13	1.05	3.6	YES	NO	bb	db	0.280
2	1234789-HpCDF	40.90	1.105e4	1.137e4	1.213	0.97	1.05	140.6	YES	NO	bb	bd	10.530
3	1234678-HpCDF	38.68	1.474e4	1.488e4	1.210	0.99	1.05	226.0	YES	NO	bb	bd	10.240

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	12378-PeCDF	29.84	2.890e4	1.782e4	0.963	1.62	1.55	301.1	YES	NO	bd	bb	9.783
2	2378-TCDF	25.69	5.619e3	7.259e3	0.951	0.77	0.77	125.6	YES	NO	bb	bd	1.973
3	123678-HxCDF	34.94	2.009e4	1.596e4	1.100	1.26	1.24	302.4	YES	NO	dd	dd	9.752
4	123478-HxCDF	34.79	1.722e4	1.379e4	1.142	1.25	1.24	300.9	YES	NO	bd	bd	9.903
5	23478-PeCDF	31.17	2.876e4	1.867e4	1.072	1.54	1.55	315.4	YES	NO	bb	bd	9.645
6	123789-HxCDF	36.84	1.262e4	1.051e4	1.066	1.20	1.24	196.7	YES	NO	bb	bd	9.350
7	234678-HxCDF	35.81	1.702e4	1.366e4	1.138	1.25	1.24	284.1	YES	NO	bd	bd	9.956
8	Total-heptafurans	41.11	3.725e2	3.299e2	1.211	1.13	1.05	3.6	YES	NO	bb	db	0.280
9	1234789-HpCDF	40.90	1.105e4	1.137e4	1.213	0.97	1.05	140.6	YES	NO	bb	bd	10.530
10	1234678-HpCDF	38.68	1.474e4	1.488e4	1.210	0.99	1.05	226.0	YES	NO	bb	bd	10.240
11	OCDF	45.11	1.456e4	1.599e4	1.391	0.91	0.89	164.4	YES	NO	bd	bd	20.258

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.33	4.027e3	4.668e3	1.197	0.86	0.77	83.2	YES	NO	bb	bb	1.953

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.43	1.619e4	1.081e4	1.129	1.50	1.55	395.4	YES	NO	bd	bb	9.584

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.42	1.084e4	8.853e3	0.869	1.22	1.24	159.1	YES	NO	bd	bd	9.675
2	123678-HxCDD	36.04	1.289e4	1.087e4	0.944	1.19	1.24	182.3	YES	NO	db	dd	9.998
3	123478-HxCDD	35.92	1.138e4	8.673e3	0.917	1.31	1.24	185.0	YES	NO	bd	bd	10.094

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.16	7.913e3	8.064e3	1.237	0.98	1.05	133.9	YES	NO	bd	bd	9.323

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	31.43	1.619e4	1.081e4	1.129	1.50	1.55	395.4	YES	NO	bd	bb	9.584
2	2378-TCDD	26.33	4.027e3	4.668e3	1.197	0.86	0.77	83.2	YES	NO	bb	bb	1.953
3	123789-HxCDD	36.42	1.084e4	8.853e3	0.869	1.22	1.24	159.1	YES	NO	bd	bd	9.675
4	123678-HxCDD	36.04	1.289e4	1.087e4	0.944	1.19	1.24	182.3	YES	NO	db	dd	9.998
5	123478-HxCDD	35.92	1.138e4	8.673e3	0.917	1.31	1.24	185.0	YES	NO	bd	bd	10.094
6	OCDD	44.86	1.188e4	1.326e4	1.212	0.90	0.89	98.3	YES	NO	bd	bd	19.122
7	1234678-HpCDD	40.16	7.913e3	8.064e3	1.237	0.98	1.05	133.9	YES	NO	bd	bd	9.323

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	29.84	2.890e4	1.782e4	0.963	1.62	1.55	301.1	YES	NO	bd	bb	9.783
2	2378-TCDF	25.69	5.619e3	7.259e3	0.951	0.77	0.77	125.6	YES	NO	bb	bd	1.973
3	123678-HxCDF	34.94	2.009e4	1.596e4	1.100	1.26	1.24	302.4	YES	NO	dd	dd	9.752
4	123478-HxCDF	34.79	1.722e4	1.379e4	1.142	1.25	1.24	300.9	YES	NO	bd	bd	9.903
5	23478-PeCDF	31.17	2.876e4	1.867e4	1.072	1.54	1.55	315.4	YES	NO	bb	bd	9.645
6	123789-HxCDF	36.84	1.262e4	1.051e4	1.066	1.20	1.24	196.7	YES	NO	bb	bd	9.350
7	234678-HxCDF	35.81	1.702e4	1.366e4	1.138	1.25	1.24	284.1	YES	NO	bd	bd	9.956
8	Total-heptafurans	41.11	3.725e2	3.299e2	1.211	1.13	1.05	3.6	YES	NO	bb	db	0.280
9	1234789-HpCDF	40.90	1.105e4	1.137e4	1.213	0.97	1.05	140.6	YES	NO	bb	bd	10.530
10	1234678-HpCDF	38.68	1.474e4	1.488e4	1.210	0.99	1.05	226.0	YES	NO	bb	bd	10.240
11	OCDF	45.11	1.456e4	1.599e4	1.391	0.91	0.89	164.4	YES	NO	bd	bd	20.258
12	12378-PeCDD	31.43	1.619e4	1.081e4	1.129	1.50	1.55	395.4	YES	NO	bd	bb	9.584
13	2378-TCDD	26.33	4.027e3	4.668e3	1.197	0.86	0.77	83.2	YES	NO	bb	bb	1.953
14	123789-HxCDD	36.42	1.084e4	8.853e3	0.869	1.22	1.24	159.1	YES	NO	bd	bd	9.675
15	123678-HxCDD	36.04	1.289e4	1.087e4	0.944	1.19	1.24	182.3	YES	NO	db	dd	9.998
16	123478-HxCDD	35.92	1.138e4	8.673e3	0.917	1.31	1.24	185.0	YES	NO	bd	bd	10.094
17	OCDD	44.86	1.188e4	1.326e4	1.212	0.90	0.89	98.3	YES	NO	bd	bd	19.122
18	1234678-HpCDD	40.16	7.913e3	8.064e3	1.237	0.98	1.05	133.9	YES	NO	bd	bd	9.323

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	25.15	1.499e4					1.6	NO		bb		
2	FUNCTION1 PFK	24.95	2.619e4					1.1	NO		bb		
3	FUNCTION1 PFK	24.38	6.600e3					0.8	NO		bb		
4	FUNCTION1 PFK	24.19	3.398e3					0.7	NO		bb		
5	FUNCTION1 PFK	23.39	1.982e3					0.6	NO		bb		
6	FUNCTION1 PFK	23.30	1.799e3					0.6	NO		bb		
7	FUNCTION1 PFK	22.98	2.316e3					0.8	NO		bb		
8	FUNCTION1 PFK	22.69	5.168e3					1.0	NO		bb		
9	FUNCTION1 PFK	22.41	3.767e3					0.8	NO		bb		
10	FUNCTION1 PFK	21.76	4.627e3					1.0	NO		bb		
11	FUNCTION1 PFK	21.72	3.866e3					0.8	NO		bb		
12	FUNCTION1 PFK	21.44	1.945e3					0.6	NO		bb		
13	FUNCTION1 PFK	21.23	2.105e3					0.7	NO		bb		
14	FUNCTION1 PFK	27.58	6.652e3					1.1	NO		bb		
15	FUNCTION1 PFK	27.22	1.658e3					0.5	NO		bb		
16	FUNCTION1 PFK	26.75	1.074e4					1.9	NO		db		
17	FUNCTION1 PFK	26.71	1.413e4					1.6	NO		dd		
18	FUNCTION1 PFK	26.62	2.953e4					1.9	NO		bd		
19	FUNCTION1 PFK	25.97	2.415e3					0.6	NO		bb		
20	FUNCTION1 PFK	25.69	1.874e4					1.1	NO		bb		
21	FUNCTION1 PFK	25.48	5.489e3					1.0	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	30.71	3.175e3					1.2	NO		bb		0.000
2	FUNCTION2 PFK	30.61	7.678e3					1.4	NO		bb		0.000
3	FUNCTION2 PFK	30.37	6.677e3					1.2	NO		bb		0.000
4	FUNCTION2 PFK	29.52	2.699e3					1.0	NO		bb		0.000
5	FUNCTION2 PFK	29.34	1.443e4					2.2	NO		bb		0.000
6	FUNCTION2 PFK	29.05	3.017e3					1.1	NO		bb		0.000
7	FUNCTION2 PFK	28.17	2.186e3					0.9	NO		bb		0.000
8	FUNCTION2 PFK	32.05	7.227e2					0.5	NO		bb		0.000
9	FUNCTION2 PFK	31.73	2.929e3					1.0	NO		bb		0.000
10	FUNCTION2 PFK	31.22	1.731e3					0.8	NO		bb		0.000
11	FUNCTION2 PFK	31.17	2.401e3					0.8	NO		bb		0.000
12	FUNCTION2 PFK	30.97	2.243e3					1.0	NO		bb		0.000
13	FUNCTION2 PFK	30.91	5.621e3					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	FUNCTION3 PFK	34.62	6.223e3					1.7	NO		bb		0.000
2	FUNCTION3 PFK	34.52	6.372e3					1.7	NO		bb		0.000
3	FUNCTION3 PFK	34.15	2.850e3					1.0	NO		bb		0.000
4	FUNCTION3 PFK	33.74	1.180e4					1.7	NO		bb		0.000
5	FUNCTION3 PFK	33.35	1.106e4					2.0	NO		db		0.000
6	FUNCTION3 PFK	33.31	1.192e4					2.2	NO		dd		0.000
7	FUNCTION3 PFK	33.26	1.451e4					2.1	NO		bd		0.000
8	FUNCTION3 PFK	33.16	1.678e4					2.0	NO		bb		0.000
9	FUNCTION3 PFK	32.96	9.546e3					1.5	NO		bb		0.000
10	FUNCTION3 PFK	37.20	4.824e3					1.0	NO		bb		0.000
11	FUNCTION3 PFK	36.54	1.815e4					2.7	NO		bb		0.000
12	FUNCTION3 PFK	36.08	4.215e3					1.5	NO		bb		0.000
13	FUNCTION3 PFK	35.99	1.934e4					2.2	NO		bb		0.000
14	FUNCTION3 PFK	35.89	1.249e3					0.7	NO		bb		0.000
15	FUNCTION3 PFK	35.14	2.291e4					2.5	NO		bb		0.000
16	FUNCTION3 PFK	34.98	1.219e3					0.6	NO		bb		0.000
17	FUNCTION3 PFK	34.77	1.499e4					1.7	NO		bb		0.000
18	FUNCTION3 PFK	34.68	4.202e3					1.2	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.90	3.733e3					1.0	NO		bb		
2	FUNCTION4 PFK	38.59	6.413e3					1.2	NO		bb		
3	FUNCTION4 PFK	38.52	1.606e3					0.6	NO		bb		
4	FUNCTION4 PFK	38.28	2.420e3					0.8	NO		bb		
5	FUNCTION4 PFK	38.23	2.562e3					0.8	NO		bb		
6	FUNCTION4 PFK	37.90	3.066e3					0.8	NO		bb		
7	FUNCTION4 PFK	42.84	1.672e3					0.6	NO		bb		
8	FUNCTION4 PFK	42.69	1.923e3					0.7	NO		bb		
9	FUNCTION4 PFK	41.71	1.196e3					0.7	NO		bb		
10	FUNCTION4 PFK	41.35	7.577e3					0.8	NO		bb		
11	FUNCTION4 PFK	41.20	5.258e3					1.3	NO		bb		
12	FUNCTION4 PFK	40.22	6.938e3					1.3	NO		bb		
13	FUNCTION4 PFK	39.24	1.097e3					0.6	NO		bb		
14	FUNCTION4 PFK	39.19	4.828e3					1.3	NO		db		
15	FUNCTION4 PFK	39.14	4.402e3					1.0	NO		bd		

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	44.04	6.267e2					0.7	NO		bb		
2	FUNCTION5 PFK	43.79	1.916e3					1.1	NO		bb		
3	FUNCTION5 PFK	43.53	3.591e3					1.7	NO		bb		
4	FUNCTION5 PFK	43.30	1.500e3					1.0	NO		bb		
5	FUNCTION5 PFK	43.23	3.121e3					1.3	NO		db		
6	FUNCTION5 PFK	43.19	4.950e3					1.7	NO		bd		
7	FUNCTION5 PFK	45.93	7.321e2					0.8	NO		bb		
8	FUNCTION5 PFK	45.79	6.955e3					1.7	NO		bb		
9	FUNCTION5 PFK	45.76	8.456e2					0.9	NO		bb		
10	FUNCTION5 PFK	45.72	1.564e3					0.9	NO		bb		
11	FUNCTION5 PFK	45.67	5.248e2					0.6	NO		bb		
12	FUNCTION5 PFK	45.63	1.532e3					1.1	NO		bb		
13	FUNCTION5 PFK	45.45	2.055e3					1.0	NO		bb		
14	FUNCTION5 PFK	45.33	1.681e3					0.8	NO		bb		
15	FUNCTION5 PFK	45.25	2.063e3					1.2	NO		bb		
16	FUNCTION5 PFK	44.96	5.090e3					1.7	NO		bb		
17	FUNCTION5 PFK	44.60	2.714e3					1.4	NO		bb		
18	FUNCTION5 PFK	44.54	2.124e3					1.1	NO		bb		
19	FUNCTION5 PFK	44.37	3.400e3					1.4	NO		bb		
20	FUNCTION5 PFK	44.11	6.607e2					0.6	NO		bb		
21	FUNCTION5 PFK	44.07	2.648e3					1.4	NO		bb		

ETHERS1

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

ETHERS2

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

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
Printed: Thursday, July 27, 2023 11:28:39 Pacific Daylight Time

ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, 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...	31.53	7.496e1					1.8	NO		db		0.000
2	FUNCTION2 HPCD...	31.38	1.117e2					2.4	NO		bd		0.000
3	FUNCTION2 HPCD...	28.27	7.783e1					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													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.63	8.992e1					2.5	NO		bb		0.000

ETHERS6

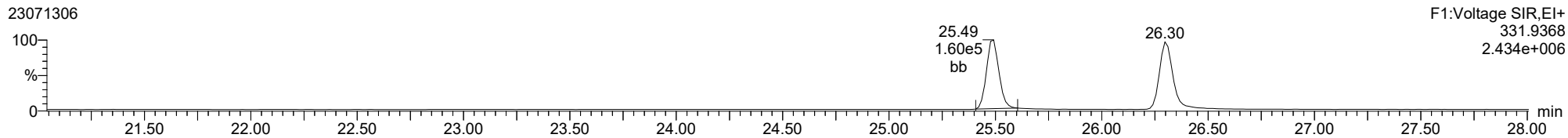
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

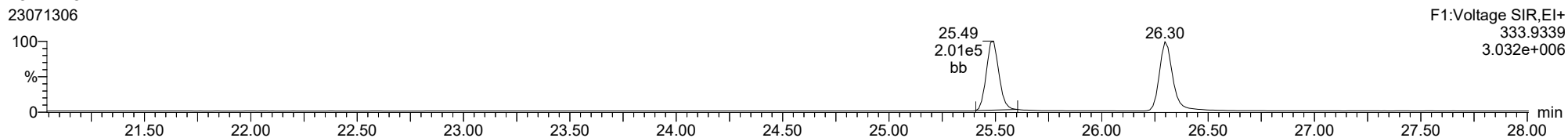
13C-1234-TCDD

23071306



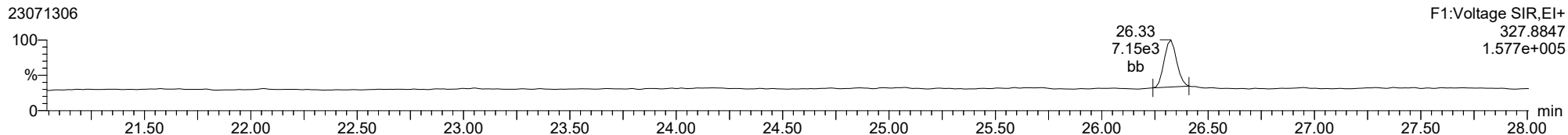
13C-1234-TCDD

23071306



37CL-2378-TCDD

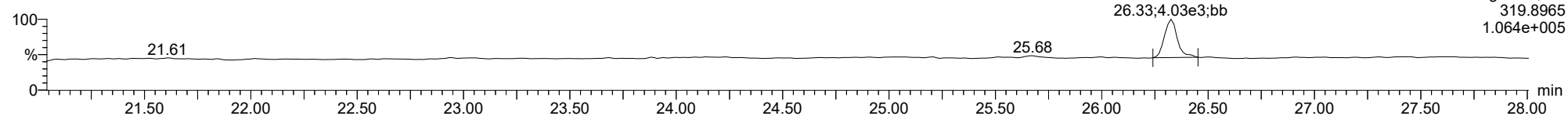
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

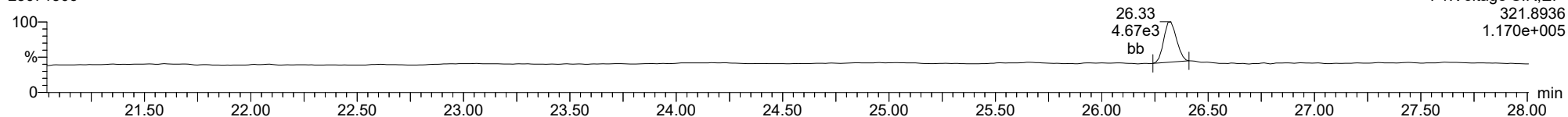
2378-TCDD

23071306



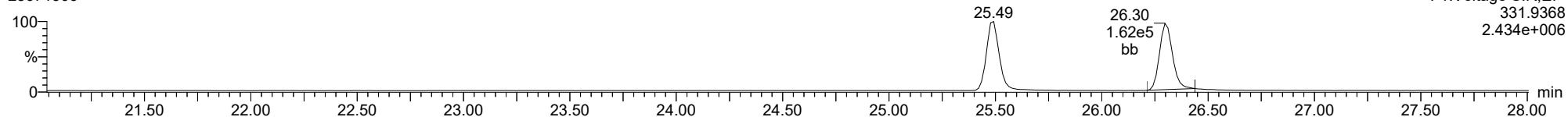
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23071306



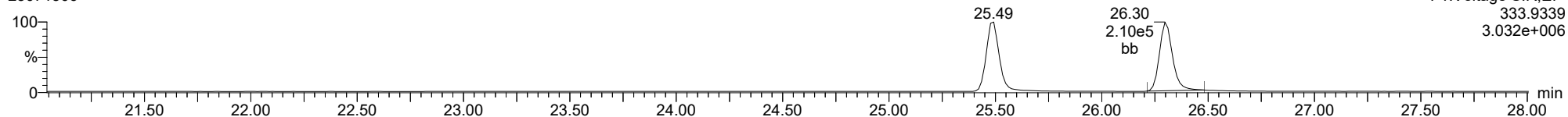
13C-2378-TCDD

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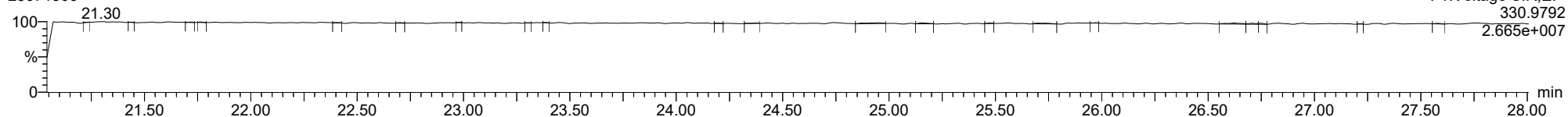
13C-2378-TCDD

23071306



FUNCTION1 PFK

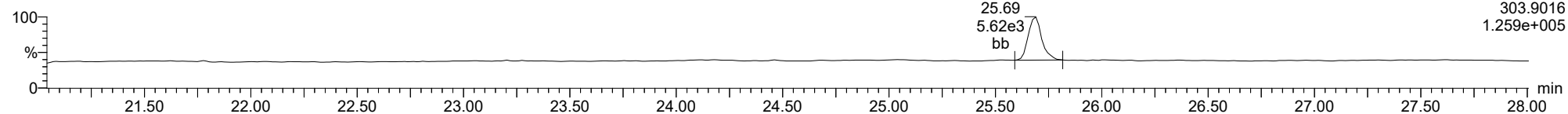
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

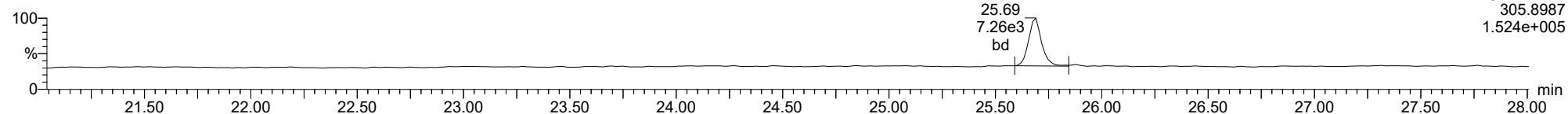
2378-TCDF

23071306



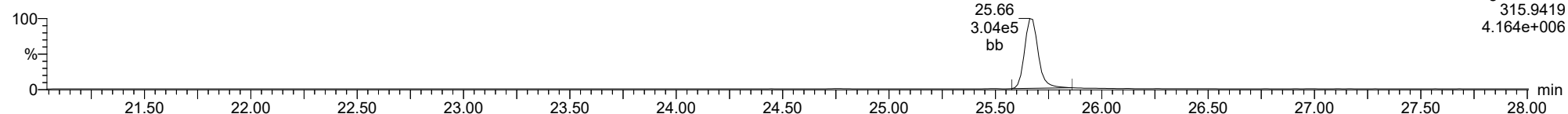
2378-TCDF

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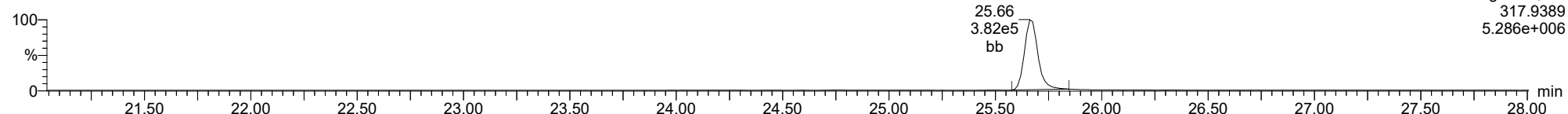
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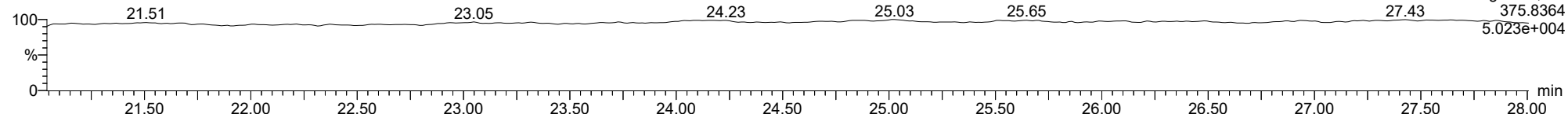
13C-2378-TCDF

23071306



FUNCTION1 HXCDFE

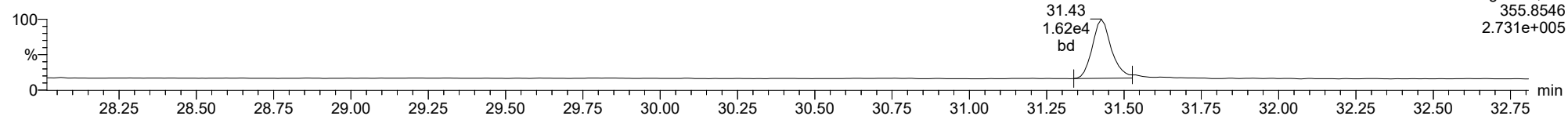
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

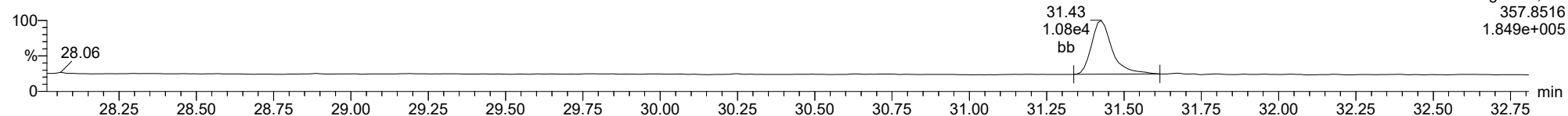
12378-PeCDD

23071306



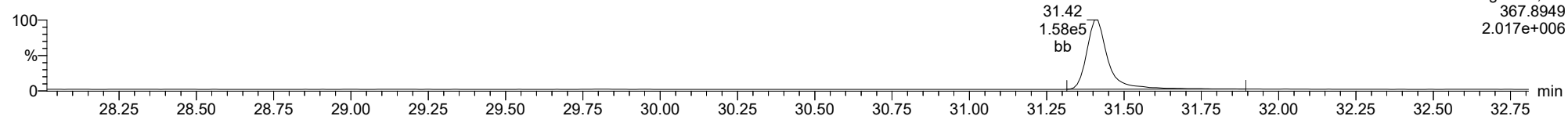
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23071306



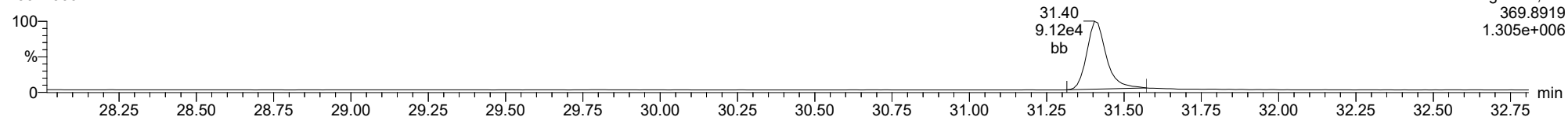
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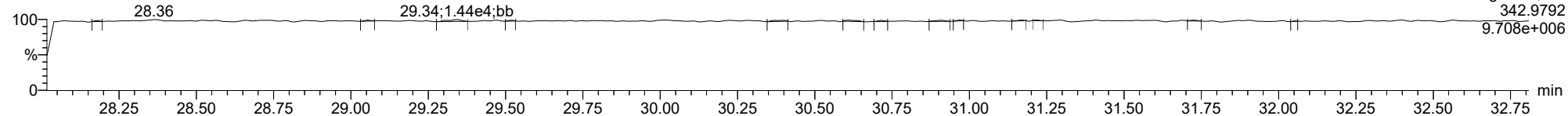
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FUNCTION2 PFK

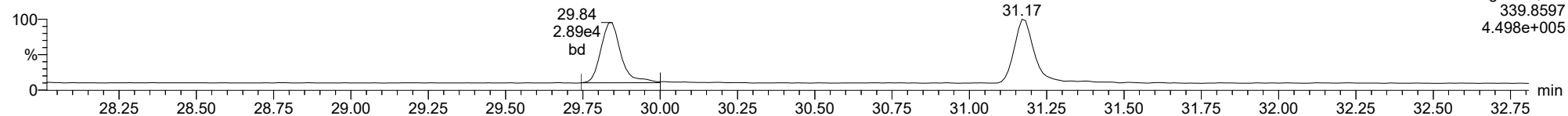
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

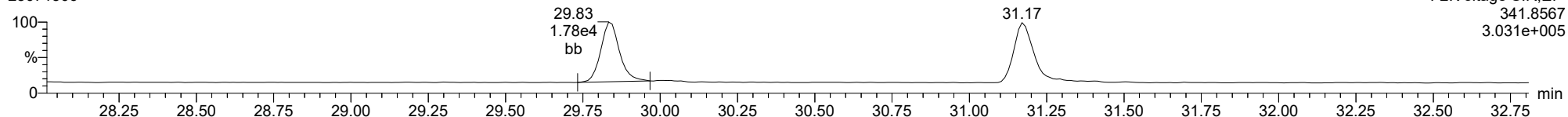
12378-PeCDF

23071306



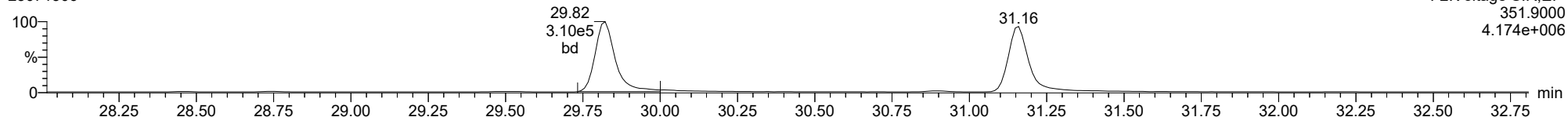
12378-PeCDF

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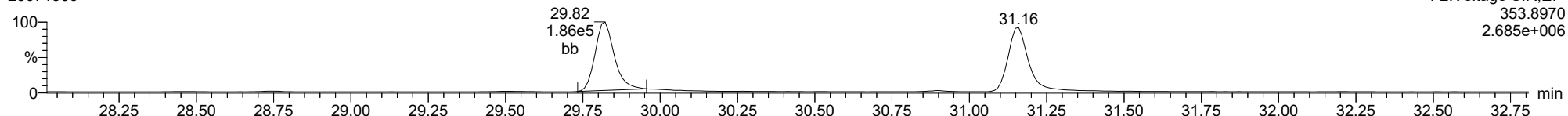
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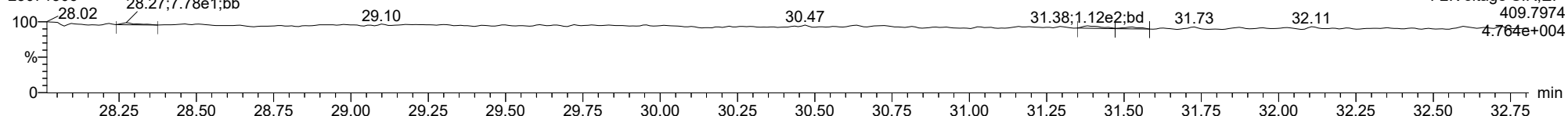
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FUNCTION2 HPCDPE

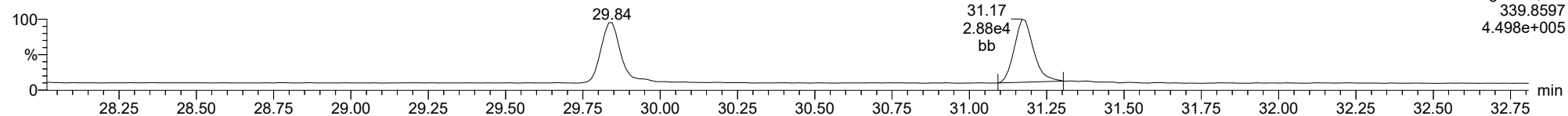
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

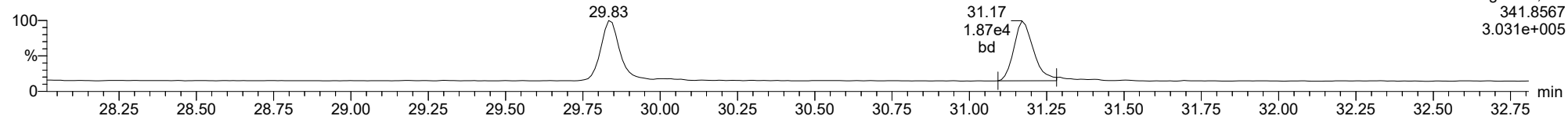
23478-PeCDF

23071306



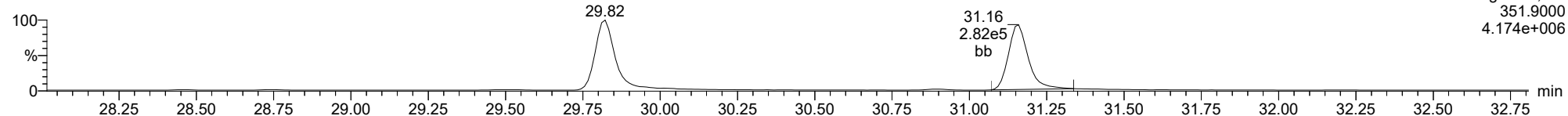
23478-PeCDF

23071306



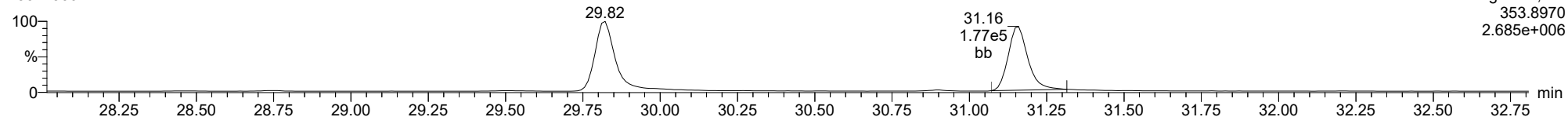
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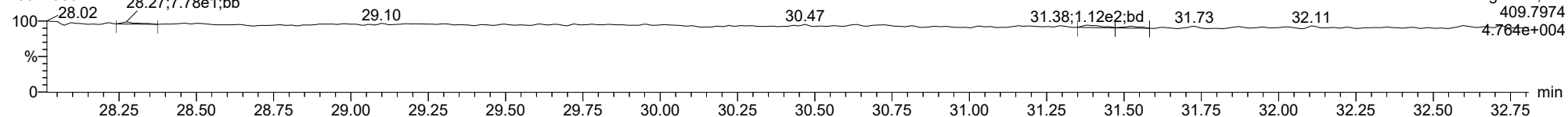
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FUNCTION2 HPCDPE

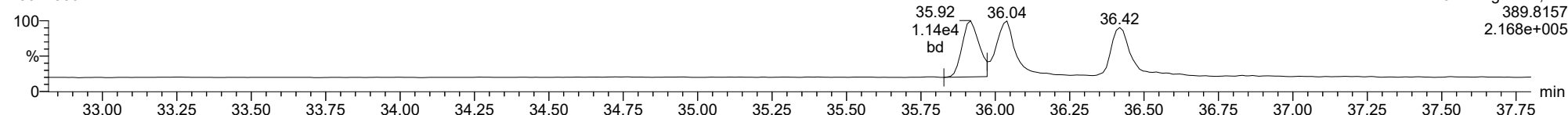
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

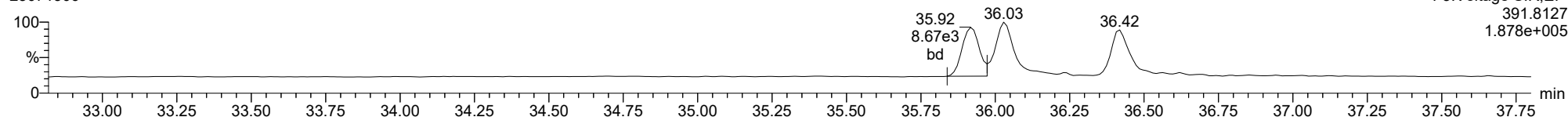
123478-HxCDD

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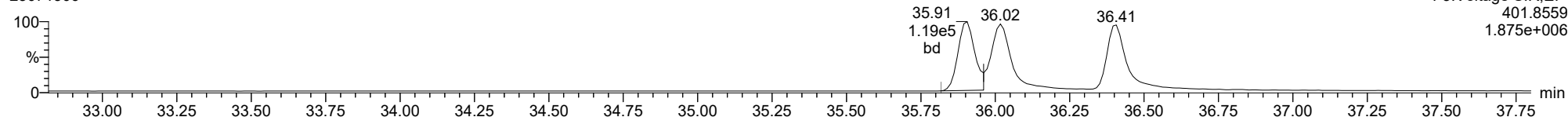
123478-HxCDD

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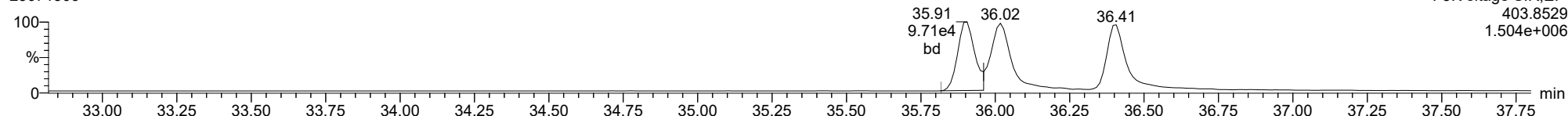
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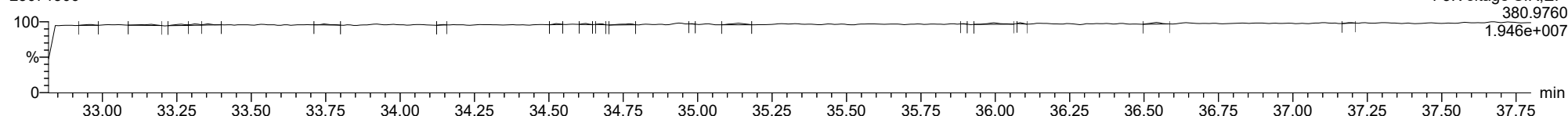
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FUNCTION3 PFK

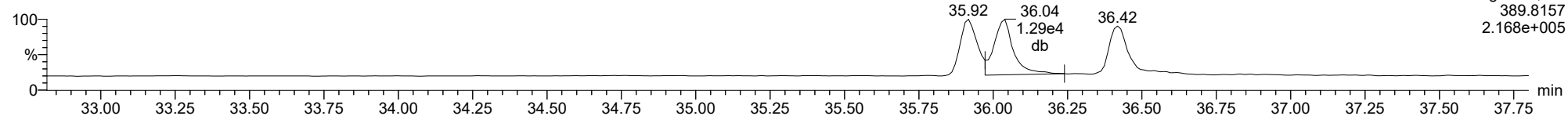
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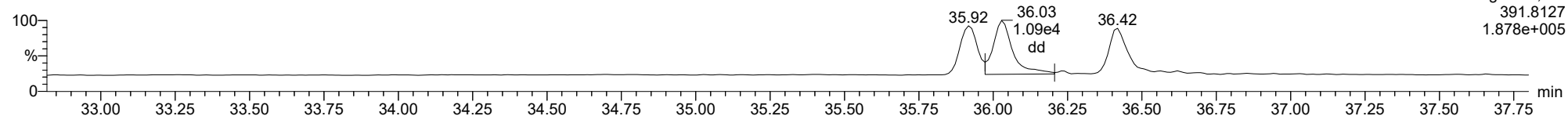
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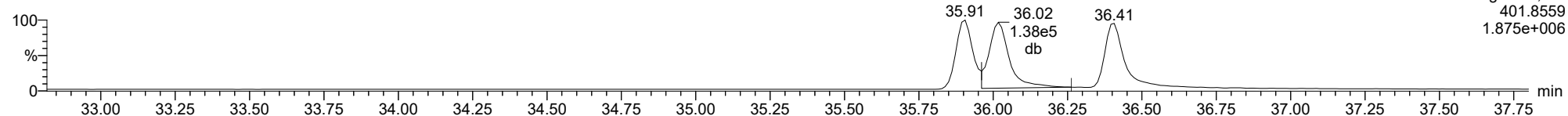
123678-HxCDD

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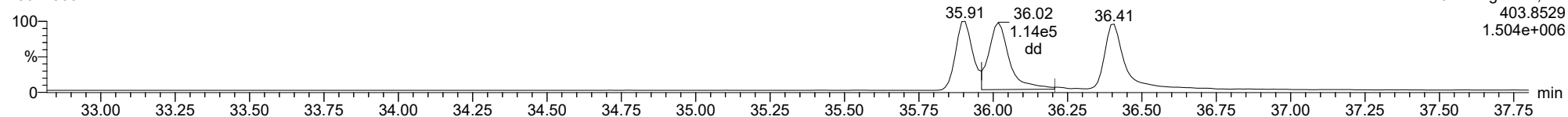
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13C-123678-HxCDD

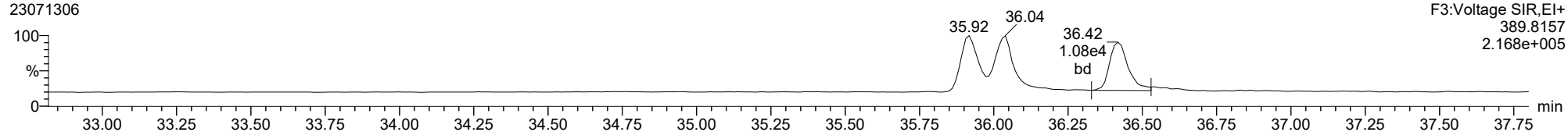
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

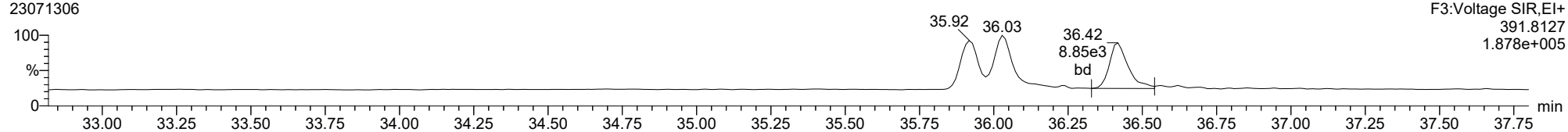
123789-HxCDD

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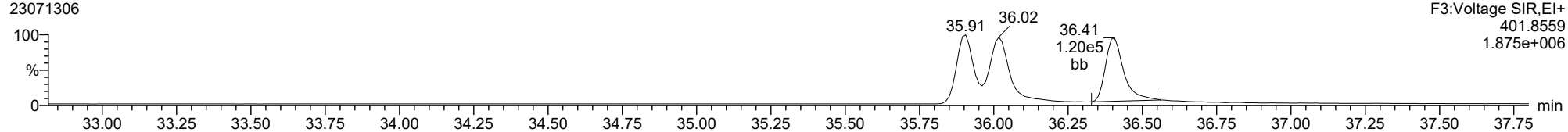
123789-HxCDD

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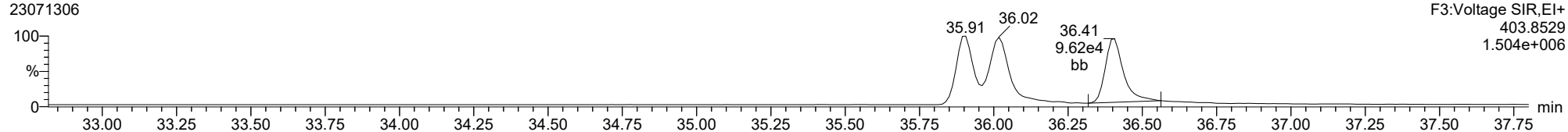
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13C-123789-HxCDD

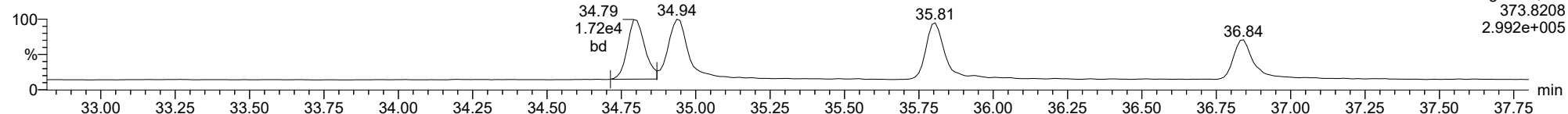
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

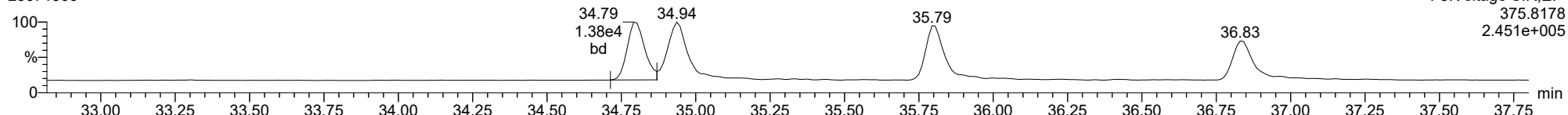
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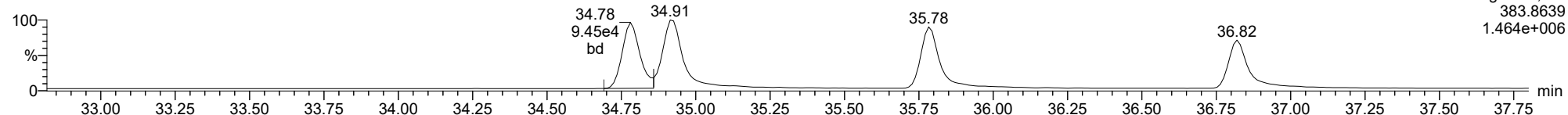
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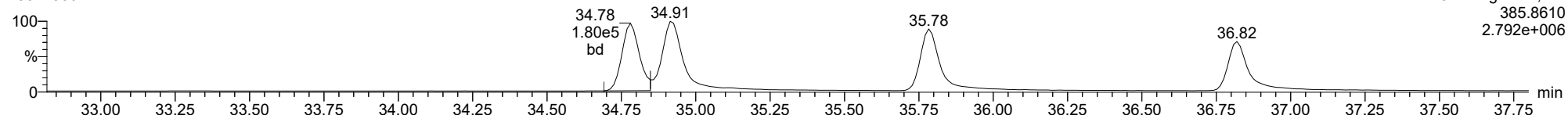
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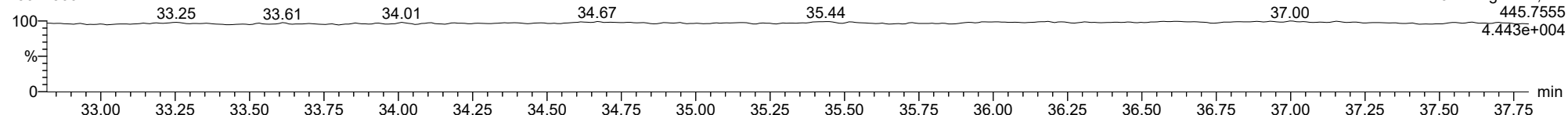
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23071306



FUNCTION3 OCDPE

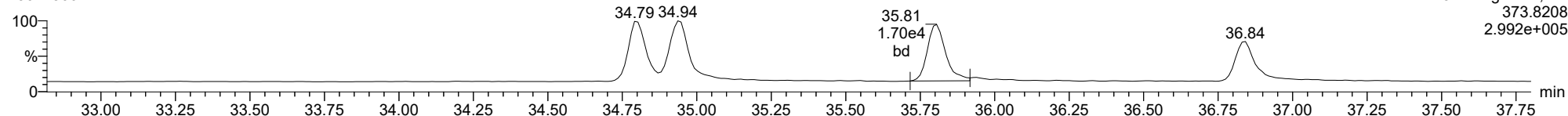
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

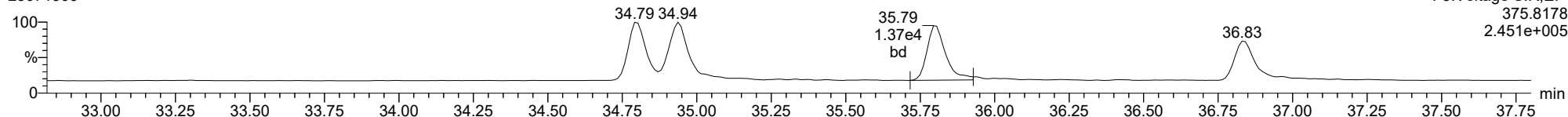
234678-HxCDF

23071306



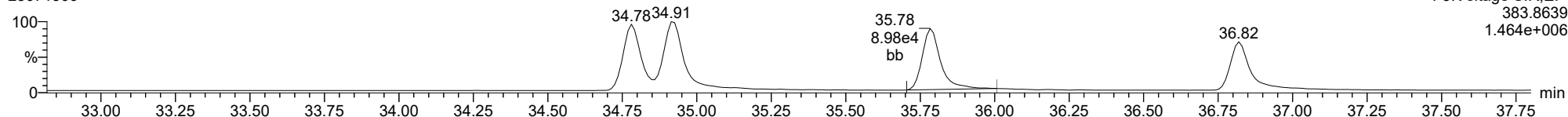
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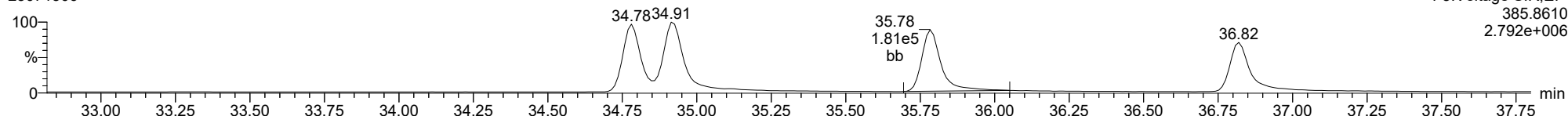
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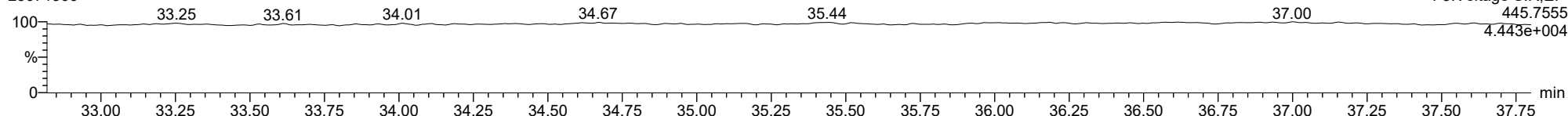
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FUNCTION3 OCDPE

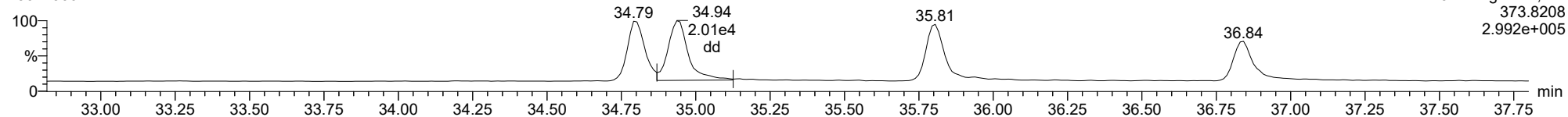
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

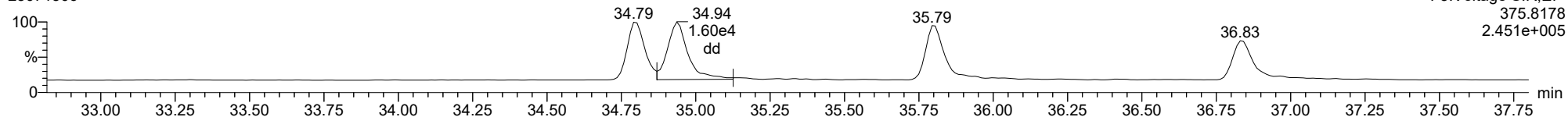
123678-HxCDF

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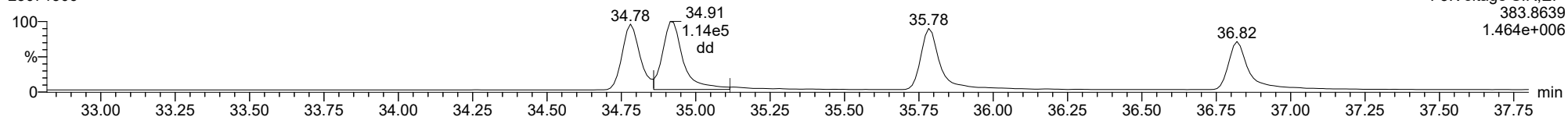
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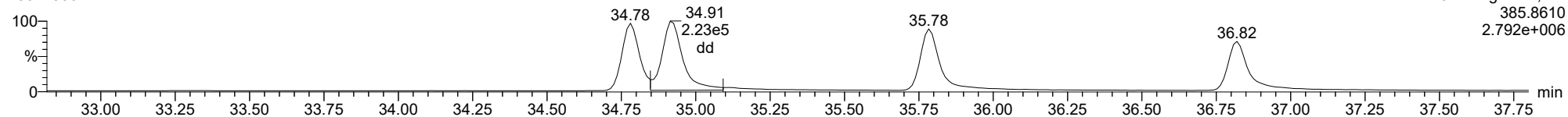
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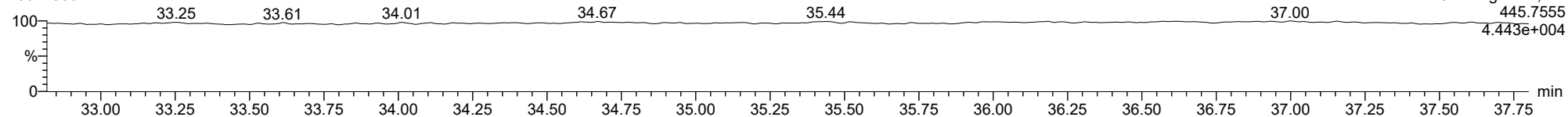
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FUNCTION3 OCDPE

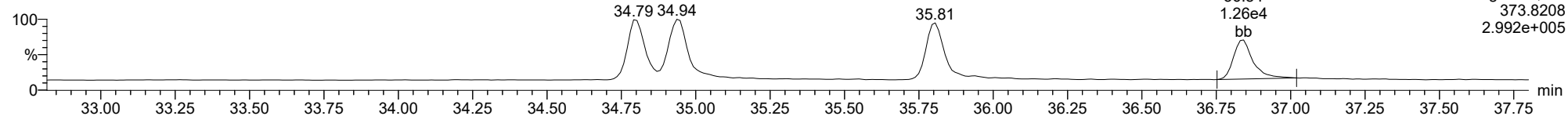
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

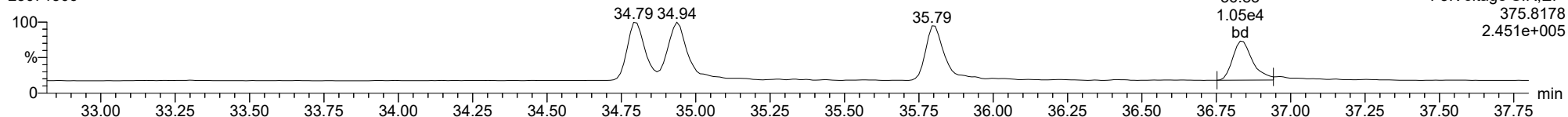
123789-HxCDF

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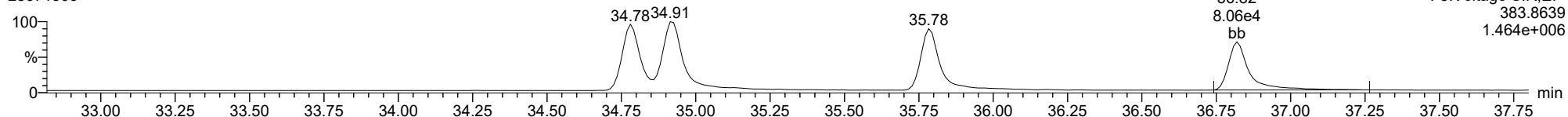
123789-HxCDF

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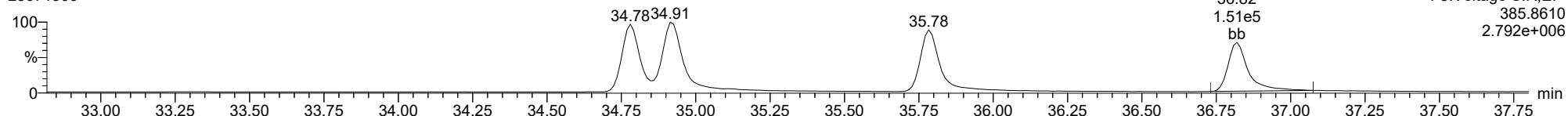
13C-123789-HxCDF

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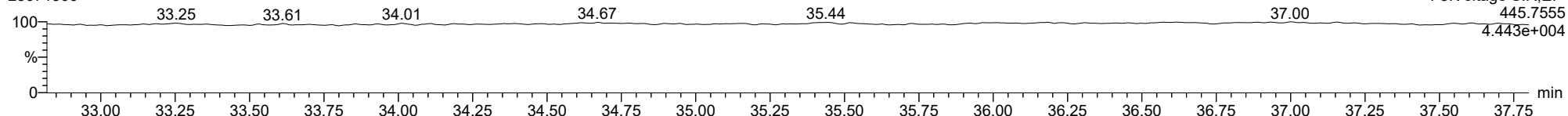
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23071306



FUNCTION3 OCDPE

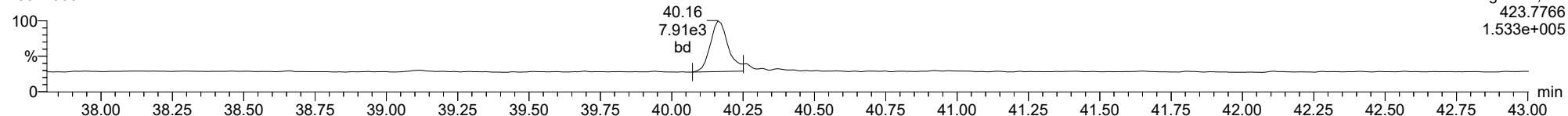
23071306



ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

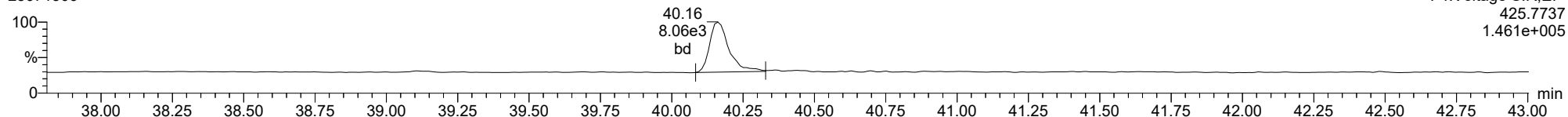
1234678-HpCDD

23071306



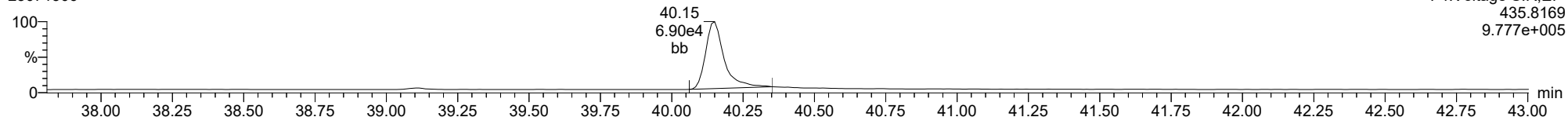
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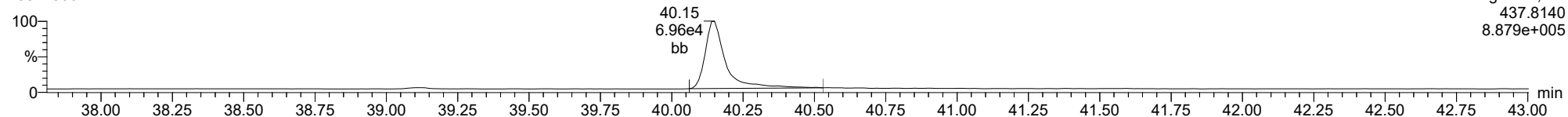
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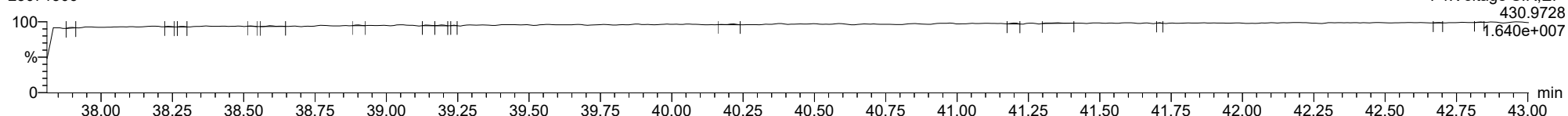
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23071306



FUNCTION4 PFK

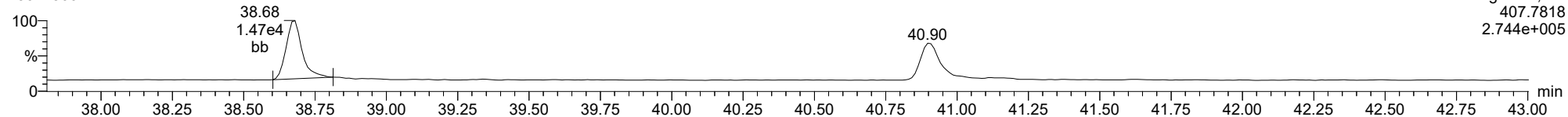
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

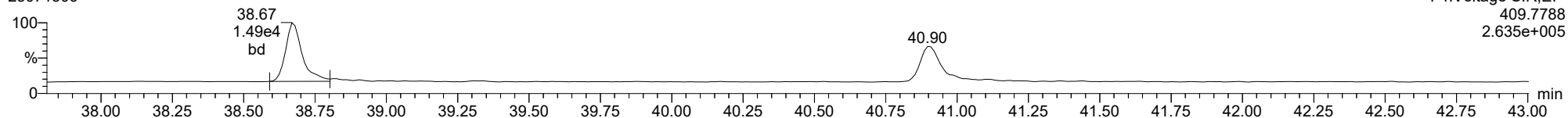
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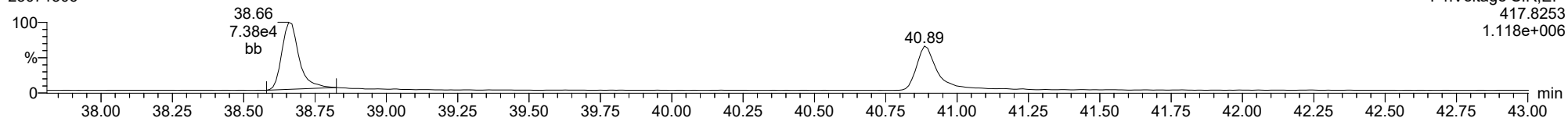
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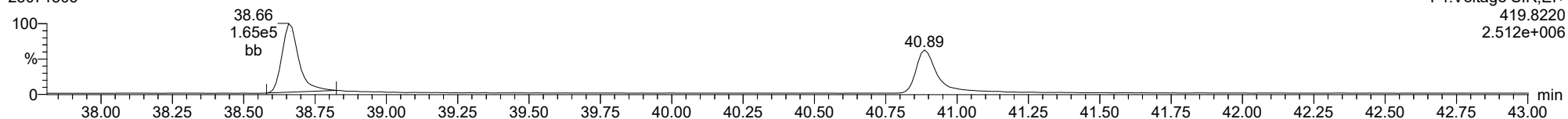
13C-1234678-HpCDF

23071306



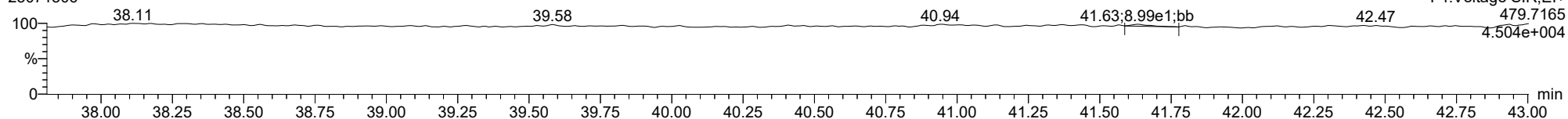
13C-1234678-HpCDF

23071306



FUNCTION4 NCDPE

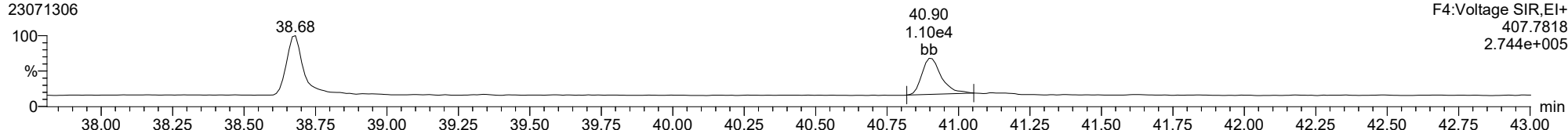
23071306



ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

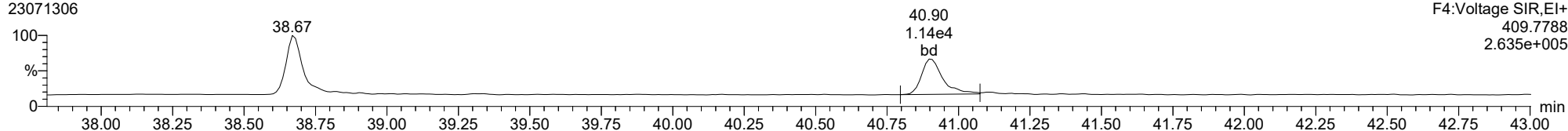
23071306



F4:Voltage SIR,EI+
407.7818
2.744e+005

1234789-HpCDF

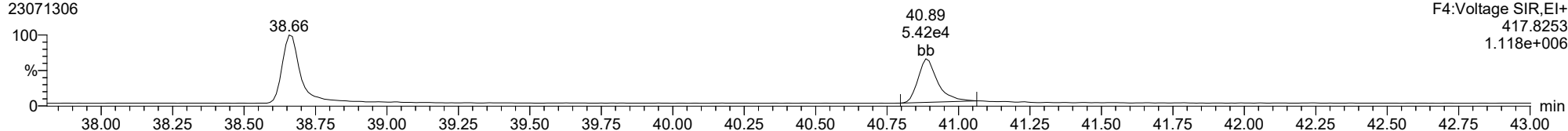
23071306



F4:Voltage SIR,EI+
409.7788
2.635e+005

13C-1234789-HpCDF

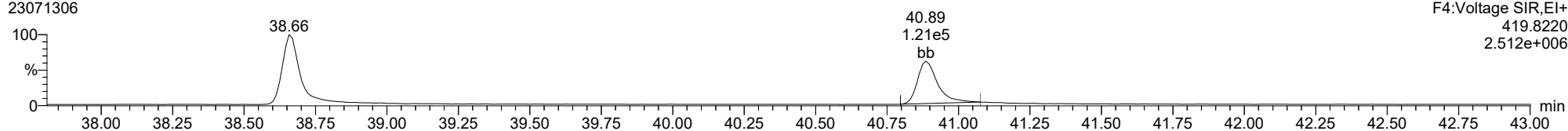
23071306



F4:Voltage SIR,EI+
417.8253
1.118e+006

13C-1234789-HpCDF

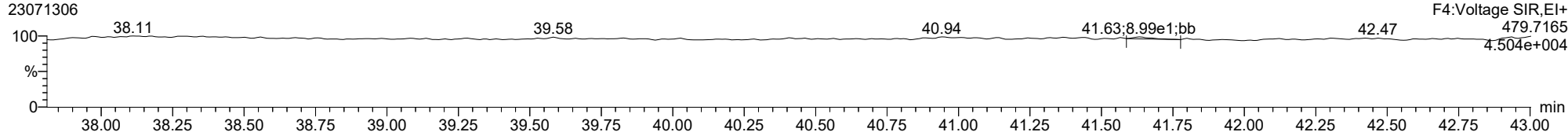
23071306



F4:Voltage SIR,EI+
419.8220
2.512e+006

FUNCTION4 NCDPE

23071306

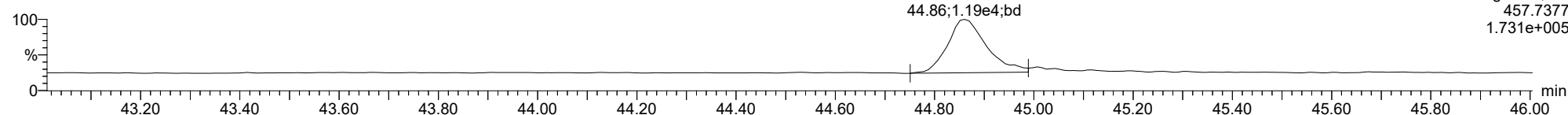


F4:Voltage SIR,EI+
479.7165
4.504e+004

ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

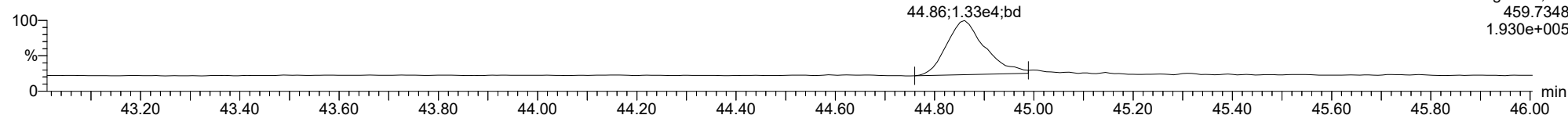
OCDD

23071306



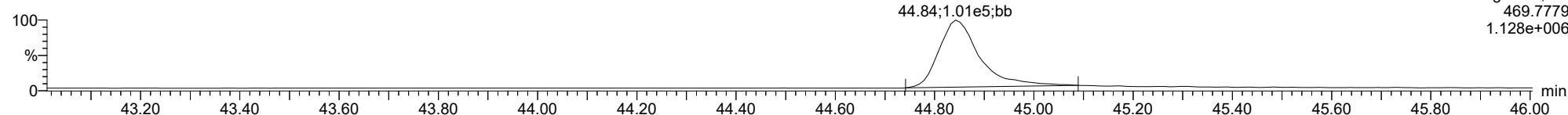
OCDD

23071306



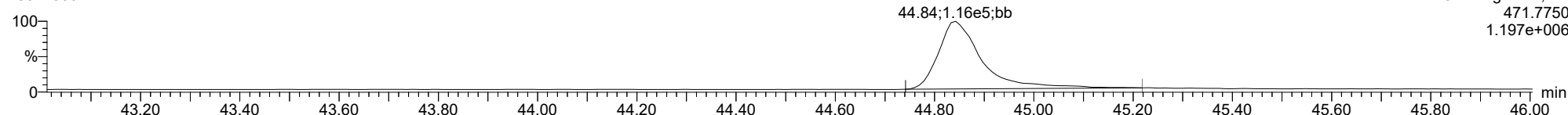
13C-OCDD

23071306



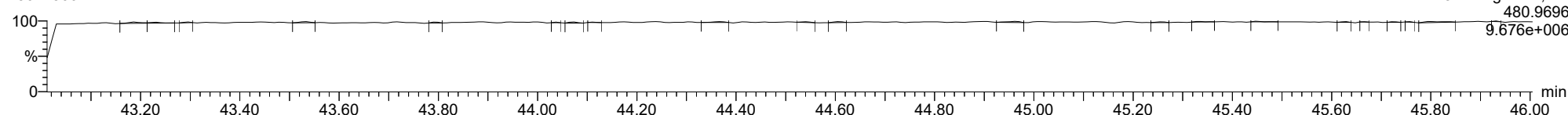
13C-OCDD

23071306



FUNCTION5 PFK

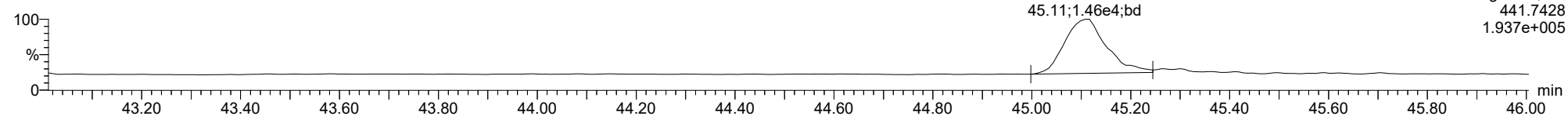
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

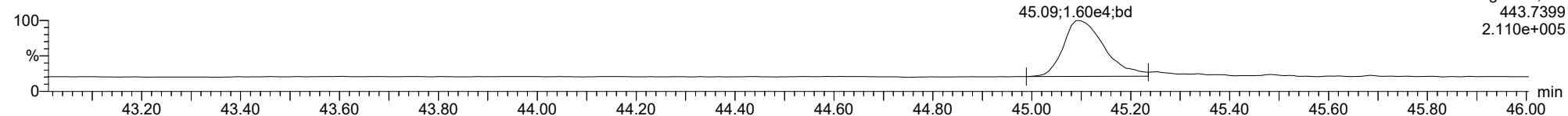
OCDF

23071306



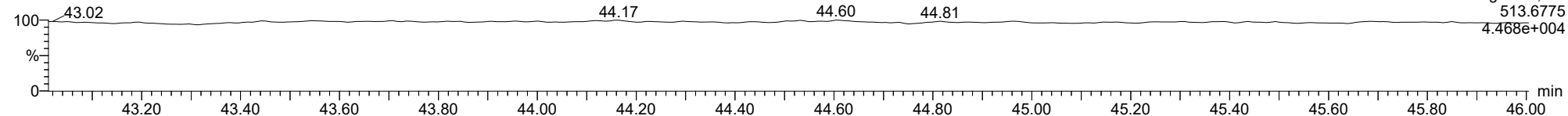
OCDF

23071306



FUNCTION5 DCDPE

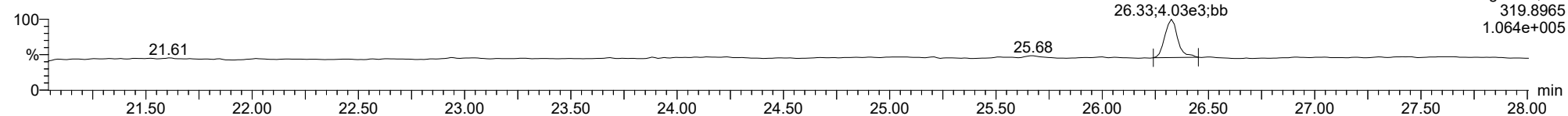
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

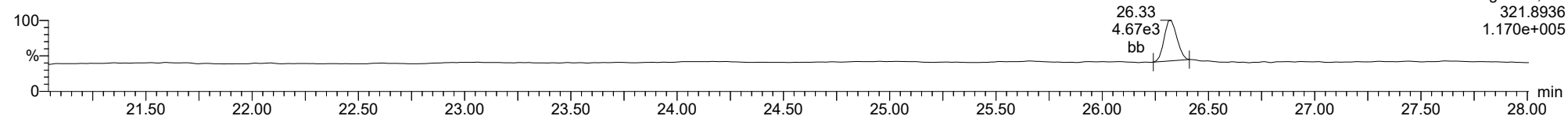
Total-tetradoxins

23071306



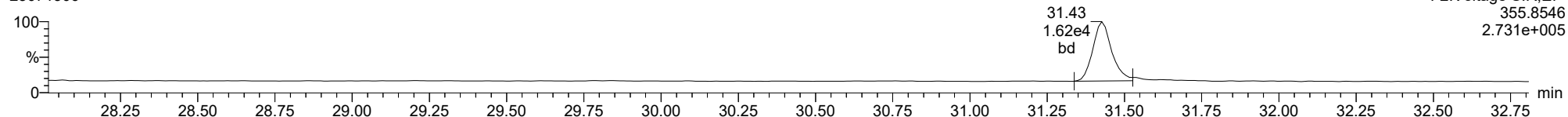
Total-tetradoxins

23071306



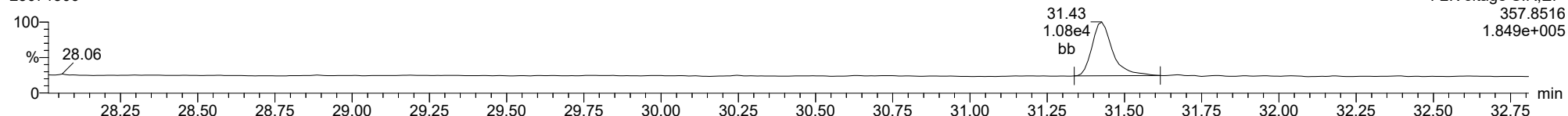
Total-pentadoxins

23071306



Total-pentadoxins

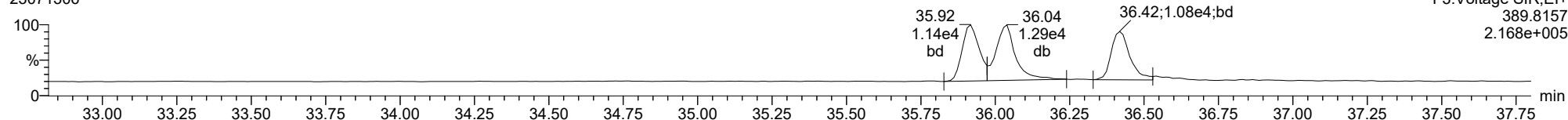
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

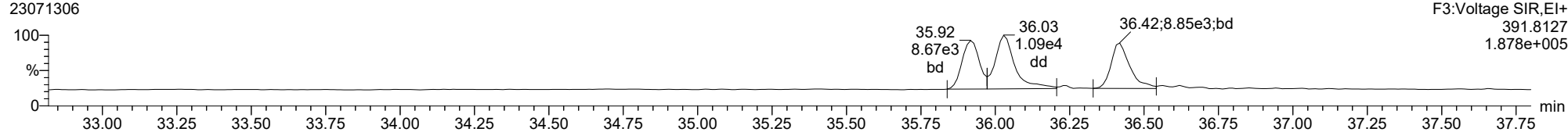
Total-hexadioxins

23071306



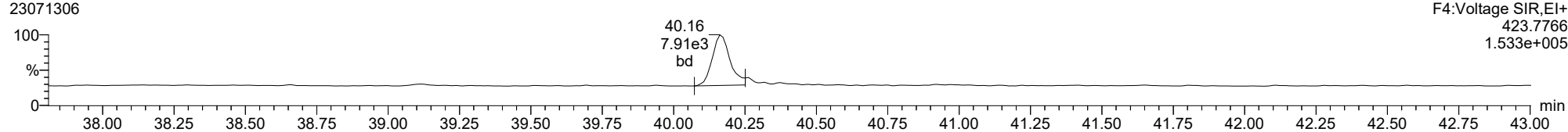
Total-hexadioxins

23071306



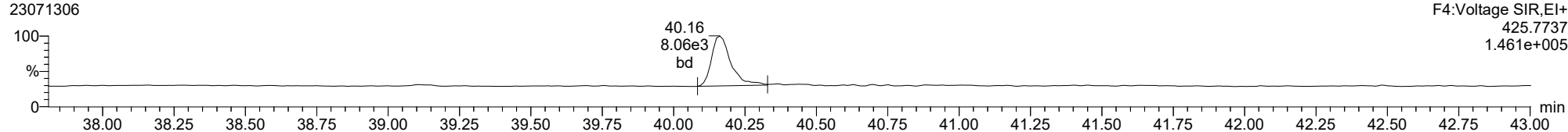
Total-heptadioxins

23071306



Total-heptadioxins

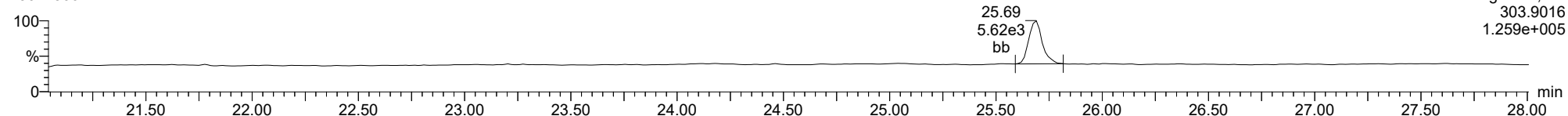
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ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans

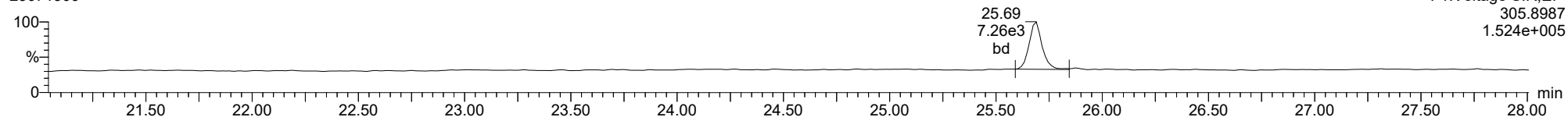
23071306



F1:Voltage SIR,EI+
303.9016
1.259e+005

Total-tetrafurans

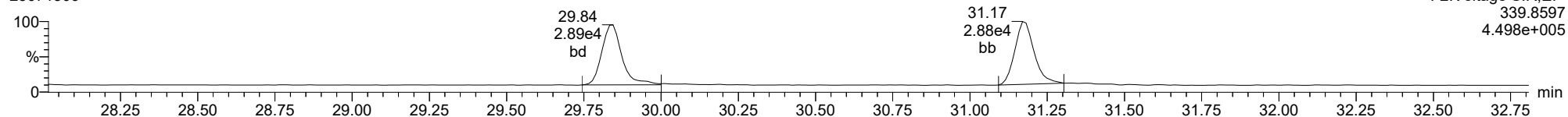
23071306



F1:Voltage SIR,EI+
305.8987
1.524e+005

Total-pentafurans

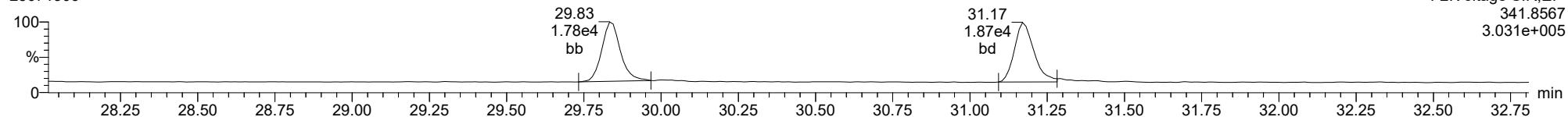
23071306



F2:Voltage SIR,EI+
339.8597
4.498e+005

Total-pentafurans

23071306

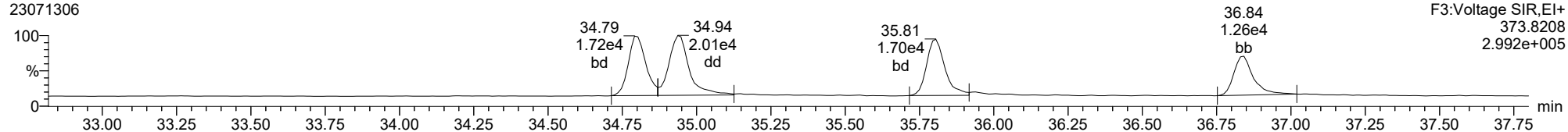


F2:Voltage SIR,EI+
341.8567
3.031e+005

ID: CS2CA, Name: 23071306, Date: 13-Jul-2023, Time: 14:50:23, Conditions: AUTOSPEC01, User: pk

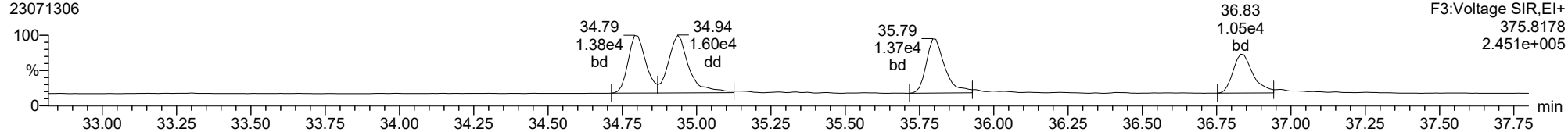
Total-hexafurans

23071306



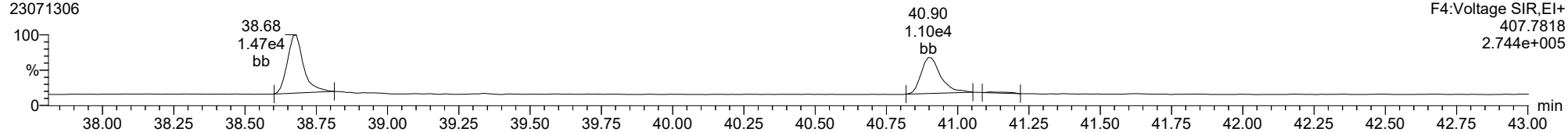
Total-hexafurans

23071306



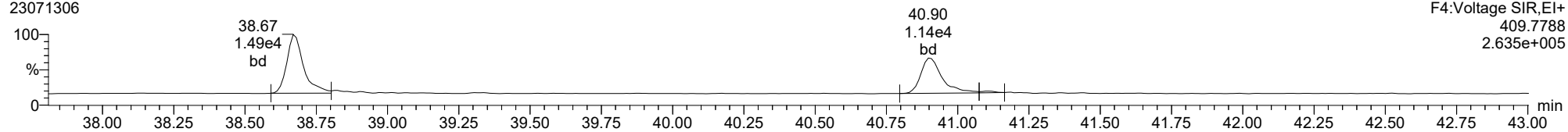
Total-heptafurans

23071306



Total-heptafurans

23071306



Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:54 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, 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	25.676	1.001	3.723e4	4.732e4	0.951	0.787	0.770	1055	1370	5.17e5	6.53e5	490.1	476.6	NO	bd	bd	10.348
12378-PeCDF	29.833	1.001	1.940e5	1.288e5	0.963	1.506	1.550	3398	1881	2.81e6	1.73e6	825.5	918.6	NO	bb	bb	51.295
23478-PeCDF	31.170	1.001	2.145e5	1.238e5	1.072	1.732	1.550	3398	1881	2.91e6	1.76e6	855.7	936.9	NO	dd	bb	51.169
123478-HxCDF	34.791	1.000	1.276e5	1.013e5	1.142	1.260	1.240	2521	1849	1.87e6	1.50e6	742.1	811.1	NO	bd	bd	50.059
234678-HxCDF	35.794	1.000	1.319e5	9.836e4	1.138	1.342	1.240	2521	1849	1.75e6	1.42e6	694.1	765.7	NO	bd	bb	49.672
123678-HxCDF	34.936	1.001	1.441e5	1.156e5	1.100	1.247	1.240	2521	1849	1.92e6	1.55e6	760.8	839.1	NO	db	db	46.787
123789-HxCDF	36.830	1.000	9.806e4	8.179e4	1.066	1.199	1.240	2521	1849	1.33e6	1.09e6	526.8	588.4	NO	bb	bd	48.676
1234678-HpCDF	38.668	1.000	1.152e5	1.110e5	1.210	1.038	1.050	1935	2243	1.70e6	1.70e6	881.1	755.7	NO	bb	bb	48.152
1234789-HpCDF	40.897	1.000	9.174e4	8.505e4	1.213	1.079	1.050	1935	2243	1.11e6	1.09e6	572.6	487.6	NO	bd	bb	50.211
OCDF	45.098	1.006	1.454e5	1.484e5	1.391	0.979	0.890	1219	2905	1.46e6	1.57e6	1201.5	539.0	NO	bd	MM	86.511
2378-TCDD	26.311	1.001	2.782e4	3.573e4	1.197	0.779	0.770	1579	919	4.04e5	5.00e5	255.9	543.9	NO	bb	bb	9.819
12378-PeCDD	31.427	1.001	1.253e5	8.270e4	1.129	1.515	1.550	1905	1511	1.73e6	1.11e6	906.8	736.0	NO	bb	bb	49.871
123478-HxCDD	35.917	1.001	9.076e4	7.420e4	0.917	1.223	1.240	1682	1615	1.43e6	1.14e6	848.3	708.8	NO	bd	bd	48.824
123678-HxCDD	36.028	1.000	1.103e5	9.119e4	0.944	1.209	1.240	1682	1615	1.49e6	1.24e6	883.7	768.2	NO	db	dd	49.235
123789-HxCDD	36.418	1.011	9.504e4	7.673e4	0.869	1.239	1.240	1682	1615	1.33e6	1.08e6	789.1	667.3	NO	bb	bb	49.307
1234678-HpCDD	40.161	1.001	7.955e4	7.572e4	1.237	1.051	1.050	1922	1705	1.02e6	9.97e5	532.0	584.9	NO	bd	bd	51.206
OCDD	44.860	1.000	1.212e5	1.411e5	1.212	0.859	0.890	1440	1799	1.27e6	1.42e6	879.0	791.7	NO	bd	bd	88.574
13C-2378-TCDF	25.662	1.007	3.758e5	4.829e5	1.920	0.778	0.770	1738	1245	5.32e6	6.80e6	3061.9	5466.1	NO	bb	bb	95.126
13C-12378-PeCDF	29.811	1.170	3.993e5	2.541e5	1.455	1.571	1.550	2724	2476	5.62e6	3.64e6	2063.5	1468.7	NO	bb	bb	95.491
13C-23478-PeCDF	31.148	1.223	3.759e5	2.408e5	1.363	1.561	1.550	2724	2476	5.39e6	3.42e6	1979.5	1380.0	NO	bb	bb	96.236
13C-123478-HxCDF	34.780	0.955	1.364e5	2.642e5	1.119	0.516	0.510	1856	2111	1.99e6	3.87e6	1070.9	1835.3	NO	bd	bd	94.729
13C-123678-HxCDF	34.914	0.959	1.767e5	3.281e5	1.343	0.539	0.510	1856	2111	2.20e6	4.29e6	1184.2	2034.0	NO	db	db	99.448
13C-234678-HxCDF	35.783	0.983	1.443e5	2.632e5	1.113	0.548	0.510	1856	2111	1.90e6	3.67e6	1022.5	1736.7	NO	bd	bb	96.901
13C-123789-HxCDF	36.819	1.011	1.208e5	2.257e5	0.959	0.535	0.510	1856	2111	1.55e6	2.89e6	835.9	1370.4	NO	bd	bb	95.625
13C-1234678-HpCDF	38.658	1.062	1.262e5	2.621e5	1.058	0.481	0.440	1812	2255	1.77e6	3.96e6	974.3	1757.8	NO	bb	bb	97.045
13C-1234789-HpCDF	40.886	1.123	9.372e4	1.966e5	0.809	0.477	0.440	1812	2255	1.16e6	2.52e6	640.5	1115.5	NO	bb	bb	94.999
13C-1234-TCDD	25.478	0.000	2.084e5	2.618e5	1.000	0.796	0.770	2087	1021	3.03e6	3.85e6	1452.7	3772.7	NO	bb	bb	100.000
13C-2378-TCDD	26.297	1.032	2.424e5	2.986e5	1.104	0.812	0.770	2087	1021	3.45e6	4.34e6	1652.9	4249.6	NO	bb	bb	104.173
13C-12378-PeCDD	31.404	1.233	2.347e5	1.345e5	0.770	1.746	1.550	1204	1181	3.07e6	1.87e6	2550.7	1582.7	NO	bd	bb	101.939
13C-123478-HxCDD	35.894	0.986	2.052e5	1.632e5	0.959	1.258	1.240	1778	1568	3.12e6	2.45e6	1752.0	1562.8	NO	bd	bd	101.602
13C-123678-HxCDD	36.017	0.989	2.396e5	1.938e5	1.120	1.237	1.240	1778	1568	3.24e6	2.60e6	1824.6	1660.6	NO	db	db	102.360
13C-1234678-HpCDD	40.139	1.103	1.291e5	1.161e5	0.640	1.111	1.050	1233	1391	1.70e6	1.55e6	1379.5	1116.0	NO	bb	bb	101.293
13C-OCDD	44.842	1.232	2.312e5	2.572e5	0.555	0.899	0.890	2407	2812	2.32e6	2.58e6	962.9	917.6	NO	bd	bd	232.678
13C-123789-HxCDD	36.407	0.000	2.078e5	1.702e5	1.000	1.221	1.240	1778	1568	2.85e6	2.32e6	1605.6	1479.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.325	1.033	5.525e4		1.129			1501		7.73e5		514.7			bb		10.404

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:54 Pacific Daylight Time

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, 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	22.173	0.864	4.539e4	5.774e4	1.201	0.786	0.770	1055	1370	6.82e5	8.84e5	646.8	645.5	NO	bb	bb	10.000
1289-TCDF	27.173	1.059	3.645e4	4.516e4	0.950	0.807	0.770	1055	1370	4.95e5	6.20e5	469.2	452.9	NO	dd	dd	10.000
13468-PECDF	27.031	0.907	2.262e5	1.471e5	1.142	1.537	1.550	598	691	3.38e6	2.18e6	5658.1	3163.0	NO	bb	bb	50.000
12389-PECDF	32.207	1.080	1.855e5	1.140e5	0.917	1.627	1.550	3398	1881	2.52e6	1.57e6	740.5	836.9	NO	bb	bb	50.000
123468-HXCDF	33.131	0.953	1.452e5	1.215e5	1.332	1.195	1.240	2521	1849	1.97e6	1.58e6	781.9	855.1	NO	bb	bb	50.000
1368-TCDD	23.458	0.892	2.769e4	3.441e4	1.148	0.805	0.770	1579	919	4.36e5	5.42e5	276.4	589.5	NO	bb	bb	10.000
1289-TCDD	26.919	1.024	2.342e4	2.824e4	0.955	0.830	0.770	1579	919	3.49e5	4.15e5	221.1	451.8	NO	bb	bb	10.000
12479-PECDD	28.719	0.915	2.300e5	1.471e5	2.043	1.564	1.550	1905	1511	2.15e6	1.38e6	1129.8	911.9	NO	bb	bb	50.000
12389-PECDD	31.816	1.013	1.486e5	9.607e4	1.326	1.547	1.550	1905	1511	2.06e6	1.28e6	1082.5	844.1	NO	bb	bd	50.000
124679-HXCDD	33.900	0.944	1.129e5	9.037e4	1.104	1.249	1.240	1682	1615	1.61e6	1.31e6	954.6	809.9	NO	bb	bb	50.000
1234679-HPCDD	39.114	0.974	9.809e4	9.247e4	1.554	1.061	1.050	1922	1705	1.33e6	1.24e6	693.5	730.3	NO	bd	bd	50.000
Total-tetrafurans			1.196e5		1.034			1055		1.70e6							30.479
Total-penta1			2.262e5					598		3.38e6							50.000
Total-pentafurans			6.292e5		0.984			3398		8.72e6							161.422
Total-hexafurans			6.470e5		1.155			2521		8.84e6							245.195
Total-heptafurans			2.069e5		1.211			1935		2.81e6							98.364
Total-Furans			1.974e6		1.119			1055		2.69e7							671.969
Total-tetradoxins			1.353e5		1.100			1579		1.84e6							50.818
Total-pentadoxins			5.039e5		1.499			1905		5.94e6							149.871
Total-hexadoxins			4.089e5		0.958			1682		5.85e6							197.366
Total-heptadoxins			1.776e5		1.396			1922		2.36e6							101.206
Total-Dioxins			1.347e6		1.203			1579		1.73e7							587.835
Total-TEQ			3.321e6					1579		4.42e7							1259.804
FUNCTION1 PFK			7.081e5					392863		1.70e7							
FUNCTION2 PFK			0.000e0					261628		0.00e0							
FUNCTION3 PFK			2.214e5					327026		6.11e6							0.000
FUNCTION4 PFK			0.000e0					217336		0.00e0							
FUNCTION5 PFK			9.943e4					157978		3.92e6							
FUNCTION1 HXCD...			6.024e2					566		8.79e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.878e2					661		3.53e3							0.000
FUNCTION3 OCDPE			7.262e2					529		8.81e3							0.000
FUNCTION4 NCDPE			2.369e2					670		3.69e3							0.000
FUNCTION5 DCDPE			0.000e0					586		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:54 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
 Calibration: 27 Jul 2023 11:25:35

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, 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	27.17	3.645e4	4.516e4	0.950	0.81	0.77	469.2	YES	NO	dd	dd	10.000
2	Total-tetrafurans	25.99	1.479e2	2.172e2	1.034	0.68	0.77	2.5	NO	NO	db	dd	0.041
3	2378-TCDF	25.68	3.723e4	4.732e4	0.951	0.79	0.77	490.1	YES	NO	bd	bd	10.348
4	Total-tetrafurans	24.76	3.414e2	4.503e2	1.034	0.76	0.77	3.9	YES	NO	db	bb	0.089
5	1368-TCDF	22.17	4.539e4	5.774e4	1.201	0.79	0.77	646.8	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-PECDFF	27.03	2.262e5	1.471e5	1.142	1.54	1.55	5658.1	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	12378-PeCDF	29.83	1.940e5	1.288e5	0.963	1.51	1.55	825.5	YES	NO	bb	bb	51.295
2	Total-pentafurans	28.69	3.514e4	2.084e4	0.984	1.69	1.55	145.1	YES	NO	bb	bb	8.958
3	12389-PECDF	32.21	1.855e5	1.140e5	0.917	1.63	1.55	740.5	YES	NO	bb	bb	50.000
4	23478-PeCDF	31.17	2.145e5	1.238e5	1.072	1.73	1.55	855.7	YES	NO	dd	bb	51.169

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.83	9.806e4	8.179e4	1.066	1.20	1.24	526.8	YES	NO	bb	bd	48.676
2	234678-HxCDF	35.79	1.319e5	9.836e4	1.138	1.34	1.24	694.1	YES	NO	bd	bb	49.672
3	123678-HxCDF	34.94	1.441e5	1.156e5	1.100	1.25	1.24	760.8	YES	NO	db	db	46.787
4	123478-HxCDF	34.79	1.276e5	1.013e5	1.142	1.26	1.24	742.1	YES	NO	bd	bd	50.059
5	123468-HxCDF	33.13	1.452e5	1.215e5	1.332	1.20	1.24	781.9	YES	NO	bb	bb	50.000

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.67	1.152e5	1.110e5	1.210	1.04	1.05	881.1	YES	NO	bb	bb	48.152
2	1234789-HpCDF	40.90	9.174e4	8.505e4	1.213	1.08	1.05	572.6	YES	NO	bd	bb	50.211

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:54 Pacific Daylight Time

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, 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	27.17	3.645e4	4.516e4	0.950	0.81	0.77	469.2	YES	NO	dd	dd	10.000
2	Total-tetrafurans	25.99	1.479e2	2.172e2	1.034	0.68	0.77	2.5	NO	NO	db	dd	0.041
3	2378-TCDF	25.68	3.723e4	4.732e4	0.951	0.79	0.77	490.1	YES	NO	bd	bd	10.348
4	Total-tetrafurans	24.76	3.414e2	4.503e2	1.034	0.76	0.77	3.9	YES	NO	db	bb	0.089
5	1368-TCDF	22.17	4.539e4	5.774e4	1.201	0.79	0.77	646.8	YES	NO	bb	bb	10.000
6	12378-PeCDF	29.83	1.940e5	1.288e5	0.963	1.51	1.55	825.5	YES	NO	bb	bb	51.295
7	Total-pentafurans	28.69	3.514e4	2.084e4	0.984	1.69	1.55	145.1	YES	NO	bb	bb	8.958
8	12389-PECDF	32.21	1.855e5	1.140e5	0.917	1.63	1.55	740.5	YES	NO	bb	bb	50.000
9	23478-PeCDF	31.17	2.145e5	1.238e5	1.072	1.73	1.55	855.7	YES	NO	dd	bb	51.169
10	123789-HxCDF	36.83	9.806e4	8.179e4	1.066	1.20	1.24	526.8	YES	NO	bb	bd	48.676
11	234678-HxCDF	35.79	1.319e5	9.836e4	1.138	1.34	1.24	694.1	YES	NO	bd	bb	49.672
12	123678-HxCDF	34.94	1.441e5	1.156e5	1.100	1.25	1.24	760.8	YES	NO	db	db	46.787
13	123478-HxCDF	34.79	1.276e5	1.013e5	1.142	1.26	1.24	742.1	YES	NO	bd	bd	50.059
14	123468-HXCDF	33.13	1.452e5	1.215e5	1.332	1.20	1.24	781.9	YES	NO	bb	bb	50.000
15	1234678-HpCDF	38.67	1.152e5	1.110e5	1.210	1.04	1.05	881.1	YES	NO	bb	bb	48.152
16	1234789-HpCDF	40.90	9.174e4	8.505e4	1.213	1.08	1.05	572.6	YES	NO	bd	bb	50.211
17	OCDF	45.10	1.454e5	1.484e5	1.391	0.98	0.89	1201.5	YES	NO	bd	MM	86.511
18	13468-PECDF	27.03	2.262e5	1.471e5	1.142	1.54	1.55	5658.1	YES	NO	bb	bb	50.000

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.92	2.342e4	2.824e4	0.955	0.83	0.77	221.1	YES	NO	bb	bb	10.000
2	2378-TCDD	26.31	2.782e4	3.573e4	1.197	0.78	0.77	255.9	YES	NO	bb	bb	9.819
3	Total-tetradoxins	25.99	4.228e4	5.176e4	1.100	0.82	0.77	274.4	YES	NO	bb	bb	15.807
4	Total-tetradoxins	25.51	1.375e4	1.647e4	1.100	0.83	0.77	134.3	YES	NO	bb	bb	5.080
5	Total-tetradoxins	24.93	3.002e2	3.638e2	1.100	0.82	0.77	3.2	YES	NO	bb	bb	0.112
6	1368-TCDD	23.46	2.769e4	3.441e4	1.148	0.80	0.77	276.4	YES	NO	bb	bb	10.000

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.72	2.300e5	1.471e5	2.043	1.56	1.55	1129.8	YES	NO	bb	bb	50.000
2	12389-PECDD	31.82	1.486e5	9.607e4	1.326	1.55	1.55	1082.5	YES	NO	bb	bd	50.000
3	12378-PeCDD	31.43	1.253e5	8.270e4	1.129	1.51	1.55	906.8	YES	NO	bb	bb	49.871

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.42	9.504e4	7.673e4	0.869	1.24	1.24	789.1	YES	NO	bb	bb	49.307
2	123678-HxCDD	36.03	1.103e5	9.119e4	0.944	1.21	1.24	883.7	YES	NO	db	dd	49.235
3	123478-HxCDD	35.92	9.076e4	7.420e4	0.917	1.22	1.24	848.3	YES	NO	bd	bd	48.824
4	124679-HXCDD	33.90	1.129e5	9.037e4	1.104	1.25	1.24	954.6	YES	NO	bb	bb	50.000

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.16	7.955e4	7.572e4	1.237	1.05	1.05	532.0	YES	NO	bd	bd	51.206
2	1234679-HPCDD	39.11	9.809e4	9.247e4	1.554	1.06	1.05	693.5	YES	NO	bd	bd	50.000

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.92	2.342e4	2.824e4	0.955	0.83	0.77	221.1	YES	NO	bb	bb	10.000
2	2378-TCDD	26.31	2.782e4	3.573e4	1.197	0.78	0.77	255.9	YES	NO	bb	bb	9.819
3	Total-tetradoxins	25.99	4.228e4	5.176e4	1.100	0.82	0.77	274.4	YES	NO	bb	bb	15.807
4	Total-tetradoxins	25.51	1.375e4	1.647e4	1.100	0.83	0.77	134.3	YES	NO	bb	bb	5.080
5	Total-tetradoxins	24.93	3.002e2	3.638e2	1.100	0.82	0.77	3.2	YES	NO	bb	bb	0.112
6	1368-TCDD	23.46	2.769e4	3.441e4	1.148	0.80	0.77	276.4	YES	NO	bb	bb	10.000
7	12479-PECDD	28.72	2.300e5	1.471e5	2.043	1.56	1.55	1129.8	YES	NO	bb	bb	50.000
8	12389-PECDD	31.82	1.486e5	9.607e4	1.326	1.55	1.55	1082.5	YES	NO	bb	bd	50.000
9	12378-PeCDD	31.43	1.253e5	8.270e4	1.129	1.51	1.55	906.8	YES	NO	bb	bb	49.871
10	123789-HxCDD	36.42	9.504e4	7.673e4	0.869	1.24	1.24	789.1	YES	NO	bb	bb	49.307
11	123678-HxCDD	36.03	1.103e5	9.119e4	0.944	1.21	1.24	883.7	YES	NO	db	dd	49.235
12	123478-HxCDD	35.92	9.076e4	7.420e4	0.917	1.22	1.24	848.3	YES	NO	bd	bd	48.824
13	124679-HXCDD	33.90	1.129e5	9.037e4	1.104	1.25	1.24	954.6	YES	NO	bb	bb	50.000
14	1234678-HpCDD	40.16	7.955e4	7.572e4	1.237	1.05	1.05	532.0	YES	NO	bd	bd	51.206
15	1234679-HPCDD	39.11	9.809e4	9.247e4	1.554	1.06	1.05	693.5	YES	NO	bd	bd	50.000
16	OCDD	44.86	1.212e5	1.411e5	1.212	0.86	0.89	879.0	YES	NO	bd	bd	88.574

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, 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	27.17	3.645e4	4.516e4	0.950	0.81	0.77	469.2	YES	NO	dd	dd	10.000
2	Total-tetrafurans	25.99	1.479e2	2.172e2	1.034	0.68	0.77	2.5	NO	NO	db	dd	0.041
3	2378-TCDF	25.68	3.723e4	4.732e4	0.951	0.79	0.77	490.1	YES	NO	bd	bd	10.348
4	Total-tetrafurans	24.76	3.414e2	4.503e2	1.034	0.76	0.77	3.9	YES	NO	db	bb	0.089
5	1368-TCDF	22.17	4.539e4	5.774e4	1.201	0.79	0.77	646.8	YES	NO	bb	bb	10.000
6	12378-PeCDF	29.83	1.940e5	1.288e5	0.963	1.51	1.55	825.5	YES	NO	bb	bb	51.295
7	Total-pentafurans	28.69	3.514e4	2.084e4	0.984	1.69	1.55	145.1	YES	NO	bb	bb	8.958
8	12389-PECDF	32.21	1.855e5	1.140e5	0.917	1.63	1.55	740.5	YES	NO	bb	bb	50.000
9	23478-PeCDF	31.17	2.145e5	1.238e5	1.072	1.73	1.55	855.7	YES	NO	dd	bb	51.169
10	123789-HxCDF	36.83	9.806e4	8.179e4	1.066	1.20	1.24	526.8	YES	NO	bb	bd	48.676
11	234678-HxCDF	35.79	1.319e5	9.836e4	1.138	1.34	1.24	694.1	YES	NO	bd	bb	49.672
12	123678-HxCDF	34.94	1.441e5	1.156e5	1.100	1.25	1.24	760.8	YES	NO	db	db	46.787
13	123478-HxCDF	34.79	1.276e5	1.013e5	1.142	1.26	1.24	742.1	YES	NO	bd	bd	50.059
14	123468-HXCDF	33.13	1.452e5	1.215e5	1.332	1.20	1.24	781.9	YES	NO	bb	bb	50.000
15	1234678-HpCDF	38.67	1.152e5	1.110e5	1.210	1.04	1.05	881.1	YES	NO	bb	bb	48.152
16	1234789-HpCDF	40.90	9.174e4	8.505e4	1.213	1.08	1.05	572.6	YES	NO	bd	bb	50.211
17	OCDF	45.10	1.454e5	1.484e5	1.391	0.98	0.89	1201.5	YES	NO	bd	MM	86.511
18	13468-PECDF	27.03	2.262e5	1.471e5	1.142	1.54	1.55	5658.1	YES	NO	bb	bb	50.000
19	1289-TCDD	26.92	2.342e4	2.824e4	0.955	0.83	0.77	221.1	YES	NO	bb	bb	10.000
20	2378-TCDD	26.31	2.782e4	3.573e4	1.197	0.78	0.77	255.9	YES	NO	bb	bb	9.819
21	Total-tetradiioxins	25.99	4.228e4	5.176e4	1.100	0.82	0.77	274.4	YES	NO	bb	bb	15.807
22	Total-tetradiioxins	25.51	1.375e4	1.647e4	1.100	0.83	0.77	134.3	YES	NO	bb	bb	5.080
23	Total-tetradiioxins	24.93	3.002e2	3.638e2	1.100	0.82	0.77	3.2	YES	NO	bb	bb	0.112
24	1368-TCDD	23.46	2.769e4	3.441e4	1.148	0.80	0.77	276.4	YES	NO	bb	bb	10.000
25	12479-PECDD	28.72	2.300e5	1.471e5	2.043	1.56	1.55	1129.8	YES	NO	bb	bb	50.000
26	12389-PECDD	31.82	1.486e5	9.607e4	1.326	1.55	1.55	1082.5	YES	NO	bb	bd	50.000
27	12378-PeCDD	31.43	1.253e5	8.270e4	1.129	1.51	1.55	906.8	YES	NO	bb	bb	49.871
28	123789-HxCDD	36.42	9.504e4	7.673e4	0.869	1.24	1.24	789.1	YES	NO	bb	bb	49.307
29	123678-HxCDD	36.03	1.103e5	9.119e4	0.944	1.21	1.24	883.7	YES	NO	db	dd	49.235
30	123478-HxCDD	35.92	9.076e4	7.420e4	0.917	1.22	1.24	848.3	YES	NO	bd	bd	48.824
31	124679-HXCDD	33.90	1.129e5	9.037e4	1.104	1.25	1.24	954.6	YES	NO	bb	bb	50.000
32	1234678-HpCDD	40.16	7.955e4	7.572e4	1.237	1.05	1.05	532.0	YES	NO	bd	bd	51.206
33	1234679-HPCDD	39.11	9.809e4	9.247e4	1.554	1.06	1.05	693.5	YES	NO	bd	bd	50.000
34	OCDD	44.86	1.212e5	1.411e5	1.212	0.86	0.89	879.0	YES	NO	bd	bd	88.574

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, 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	22.62	1.835e4					1.4	NO		dd		
2	FUNCTION1 PFK	22.53	7.008e4					1.6	NO		bd		
3	FUNCTION1 PFK	22.36	7.929e3					1.0	NO		bb		
4	FUNCTION1 PFK	22.14	8.415e3					0.8	NO		bb		
5	FUNCTION1 PFK	21.99	1.585e4					1.3	NO		bb		
6	FUNCTION1 PFK	21.72	8.802e3					0.7	NO		bb		
7	FUNCTION1 PFK	21.32	2.578e4					1.7	NO		bb		
8	FUNCTION1 PFK	21.25	2.267e4					1.6	NO		db		
9	FUNCTION1 PFK	21.20	1.763e4					1.2	NO		bd		
10	FUNCTION1 PFK	25.79	1.726e4					1.3	NO		dd		
11	FUNCTION1 PFK	25.75	2.433e4					1.7	NO		bd		
12	FUNCTION1 PFK	25.65	1.588e4					1.0	NO		bb		
13	FUNCTION1 PFK	25.55	1.965e4					1.6	NO		bb		
14	FUNCTION1 PFK	25.29	8.458e3					0.8	NO		bb		
15	FUNCTION1 PFK	24.94	1.770e4					1.5	NO		bb		
16	FUNCTION1 PFK	24.55	2.863e4					1.2	NO		bb		
17	FUNCTION1 PFK	24.25	1.786e4					1.4	NO		db		
18	FUNCTION1 PFK	24.21	1.094e4					1.1	NO		bd		
19	FUNCTION1 PFK	24.08	2.192e3					0.4	NO		bb		
20	FUNCTION1 PFK	23.88	8.153e3					0.7	NO		db		
21	FUNCTION1 PFK	23.80	3.328e4					1.5	NO		bd		
22	FUNCTION1 PFK	23.50	9.657e3					0.9	NO		bb		
23	FUNCTION1 PFK	23.09	7.100e4					2.4	NO		bb		
24	FUNCTION1 PFK	22.77	5.460e4					1.9	NO		bb		
25	FUNCTION1 PFK	22.68	2.039e4					1.3	NO		db		
26	FUNCTION1 PFK	27.96	1.684e4					1.5	NO		db		
27	FUNCTION1 PFK	27.92	2.035e4					1.4	NO		bd		
28	FUNCTION1 PFK	27.14	2.100e4					1.3	NO		db		
29	FUNCTION1 PFK	27.10	1.295e4					1.0	NO		bd		
30	FUNCTION1 PFK	26.83	7.788e3					0.8	NO		db		
31	FUNCTION1 PFK	26.78	1.163e4					1.0	NO		bd		
32	FUNCTION1 PFK	26.24	4.172e4					1.9	NO		bb		
33	FUNCTION1 PFK	25.87	6.915e3					0.8	NO		db		
34	FUNCTION1 PFK	25.83	1.336e4					1.3	NO		dd		

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	34.82	1.912e4					1.5	NO		bb		0.000
2	FUNCTION3 PFK	34.02	2.494e4					1.8	NO		bb		0.000
3	FUNCTION3 PFK	33.08	2.152e4					1.7	NO		bb		0.000
4	FUNCTION3 PFK	32.96	1.486e4					1.1	NO		bb		0.000
5	FUNCTION3 PFK	32.88	1.827e3					0.5	NO		bb		0.000
6	FUNCTION3 PFK	37.74	1.159e4					0.9	NO		bb		0.000
7	FUNCTION3 PFK	37.21	7.153e3					1.0	NO		bb		0.000
8	FUNCTION3 PFK	36.96	8.022e3					1.0	NO		bb		0.000
9	FUNCTION3 PFK	36.64	8.317e3					1.1	NO		bb		0.000
10	FUNCTION3 PFK	35.78	1.738e4					1.5	NO		bb		0.000
11	FUNCTION3 PFK	35.59	2.290e4					1.3	NO		bb		0.000
12	FUNCTION3 PFK	35.53	5.609e3					0.8	NO		bb		0.000
13	FUNCTION3 PFK	35.48	2.112e3					0.6	NO		bb		0.000
14	FUNCTION3 PFK	35.30	1.714e4					1.8	NO		bb		0.000
15	FUNCTION3 PFK	35.13	3.891e4					2.0	NO		bb		0.000

PFK4

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

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:54 Pacific Daylight Time

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, 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	43.49	7.107e3					1.0	NO		db		
2	FUNCTION5 PFK	43.45	2.525e3					0.8	NO		bd		
3	FUNCTION5 PFK	43.21	5.537e3					1.4	NO		db		
4	FUNCTION5 PFK	43.14	5.796e3					1.4	NO		bd		
5	FUNCTION5 PFK	45.45	5.635e3					1.3	NO		bb		
6	FUNCTION5 PFK	45.27	7.789e3					1.6	NO		bb		
7	FUNCTION5 PFK	44.78	2.538e3					0.9	NO		bb		
8	FUNCTION5 PFK	44.71	6.571e3					2.1	NO		bb		
9	FUNCTION5 PFK	44.60	5.537e3					1.8	NO		bb		
10	FUNCTION5 PFK	44.48	1.207e3					0.6	NO		bb		
11	FUNCTION5 PFK	44.37	2.790e3					0.9	NO		bb		
12	FUNCTION5 PFK	44.31	2.051e3					0.8	NO		db		
13	FUNCTION5 PFK	44.28	3.551e3					1.1	NO		bd		
14	FUNCTION5 PFK	44.22	6.650e3					1.5	NO		bb		
15	FUNCTION5 PFK	44.09	1.082e4					1.7	NO		bb		
16	FUNCTION5 PFK	43.97	9.231e2					0.6	NO		bb		
17	FUNCTION5 PFK	43.94	2.328e3					0.8	NO		bb		
18	FUNCTION5 PFK	43.75	8.872e3					1.8	NO		bb		
19	FUNCTION5 PFK	43.70	6.548e2					0.5	NO		bb		
20	FUNCTION5 PFK	43.57	9.833e3					1.9	NO		bb		
21	FUNCTION5 PFK	45.94	7.157e2					0.5	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.79	1.011e2					2.2	NO		bb		0.000
2	FUNCTION1 HXCD...	25.08	9.128e1					3.6	YES		bb		0.000
3	FUNCTION1 HXCD...	24.62	1.241e2					2.5	NO		db		0.000
4	FUNCTION1 HXCD...	24.43	1.034e2					2.8	NO		bd		0.000
5	FUNCTION1 HXCD...	24.16	8.804e1					1.7	NO		bb		0.000
6	FUNCTION1 HXCD...	23.71	9.448e1					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													

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:28:54 Pacific Daylight Time

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, 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...	31.04	9.586e1					3.5	YES		bb		0.000
2	FUNCTION2 HPCD...	29.66	9.196e1					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	1.163e2					2.3	NO		bd		0.000
2	FUNCTION3 OCDPE	34.94	1.063e2					3.1	YES		db		0.000
3	FUNCTION3 OCDPE	34.85	1.831e2					3.1	YES		dd		0.000
4	FUNCTION3 OCDPE	34.65	9.510e1					2.9	NO		bd		0.000
5	FUNCTION3 OCDPE	36.41	1.454e2					3.0	NO		bb		0.000
6	FUNCTION3 OCDPE	36.02	8.012e1					2.4	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	40.16	9.886e1					3.2	YES		bb		0.000
2	FUNCTION4 NCDPE	38.65	1.381e2					2.3	NO		bb		0.000

ETHERS6

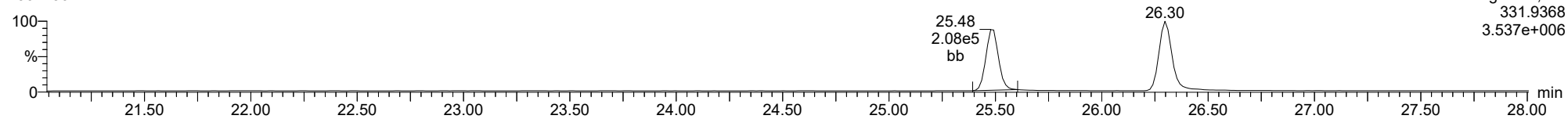
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

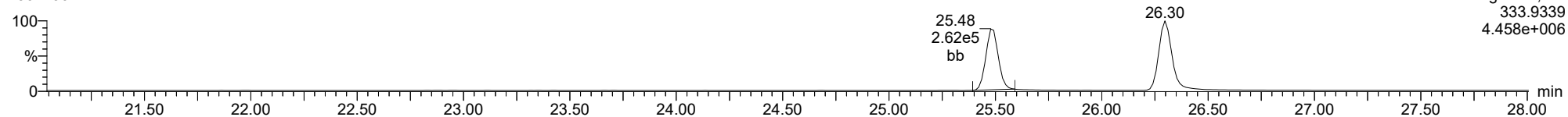
13C-1234-TCDD

23071307



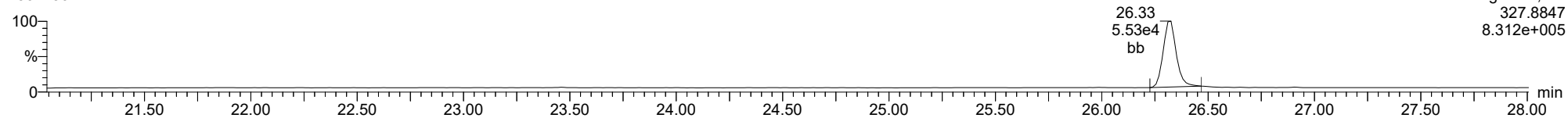
13C-1234-TCDD

23071307



37CL-2378-TCDD

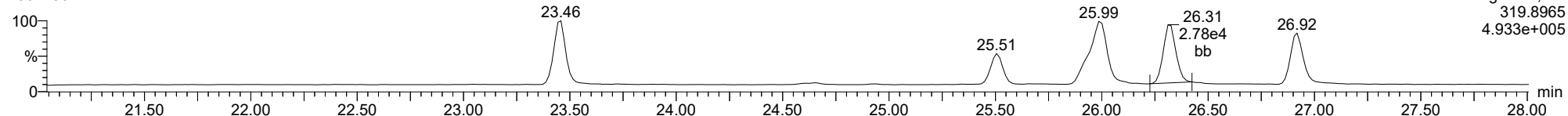
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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

2378-TCDD

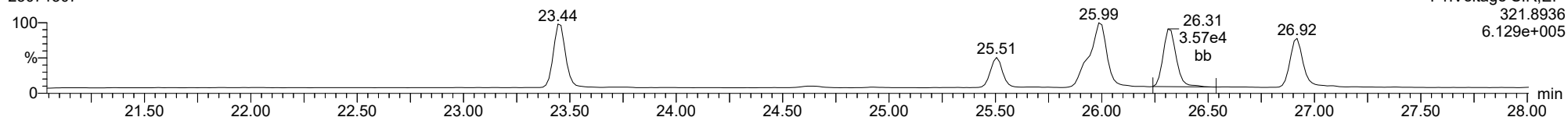
23071307



F1:Voltage SIR,EI+
319.8965
4.933e+005

2378-TCDD

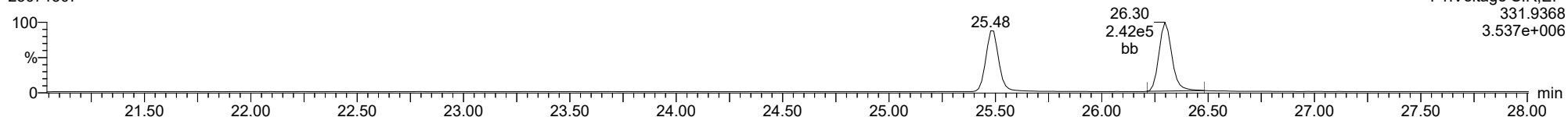
23071307



F1:Voltage SIR,EI+
321.8936
6.129e+005

13C-2378-TCDD

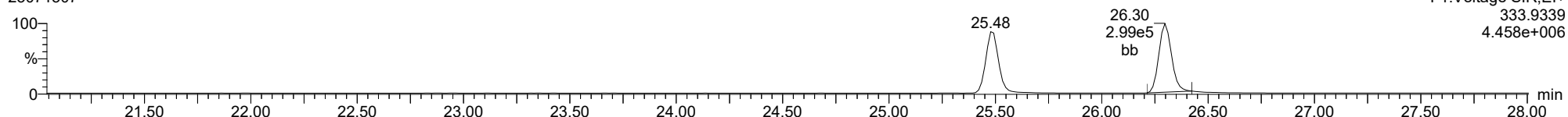
23071307



F1:Voltage SIR,EI+
331.9368
3.537e+006

13C-2378-TCDD

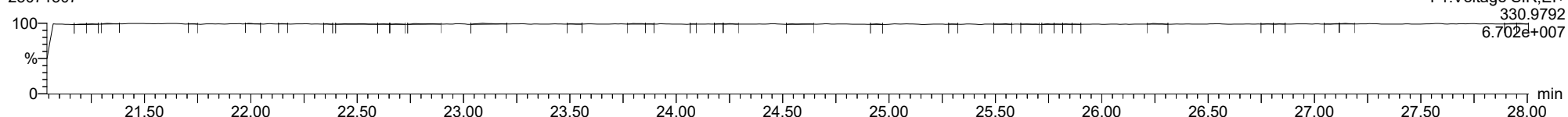
23071307



F1:Voltage SIR,EI+
333.9339
4.458e+006

FUNCTION1 PFK

23071307

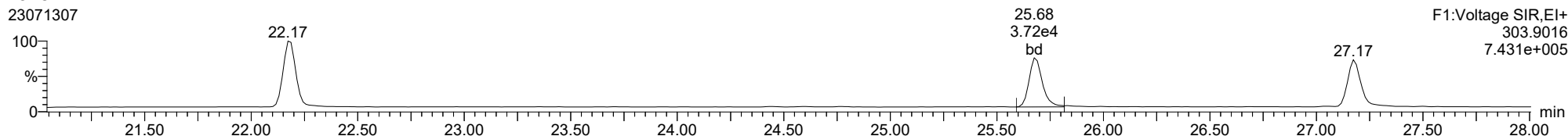


F1:Voltage SIR,EI+
330.9792
6.702e+007

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

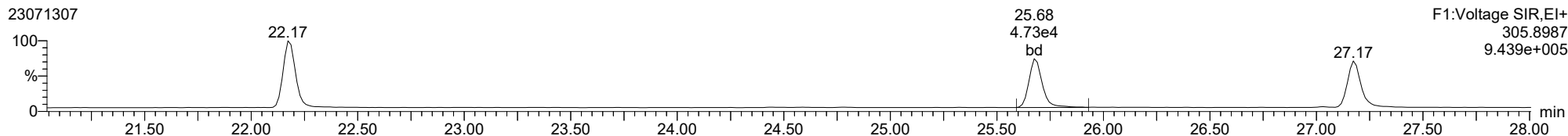
2378-TCDF

23071307



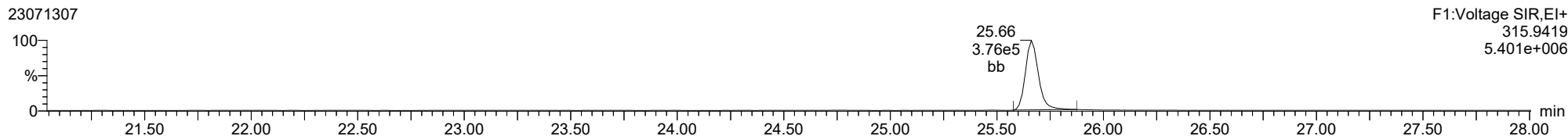
2378-TCDF

23071307



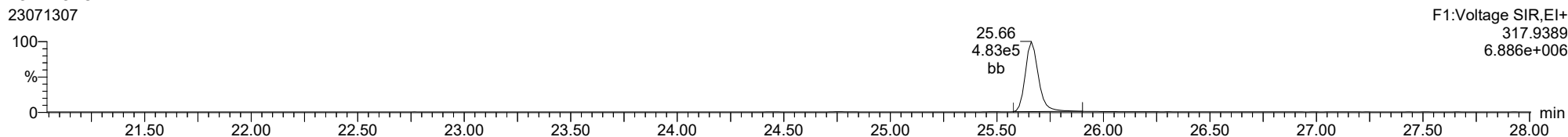
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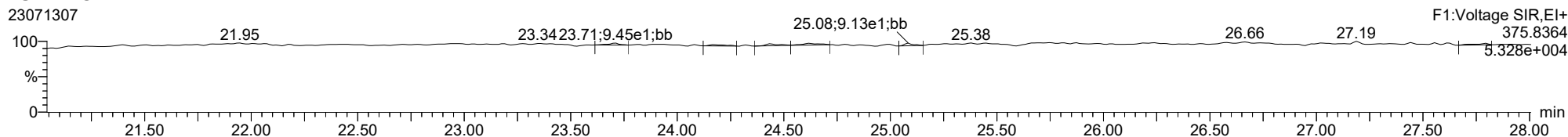
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23071307



FUNCTION1 HXCDPE

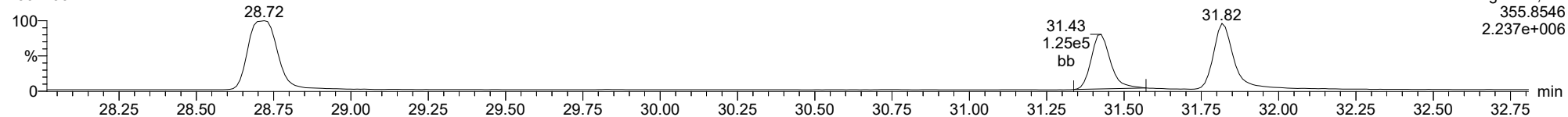
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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

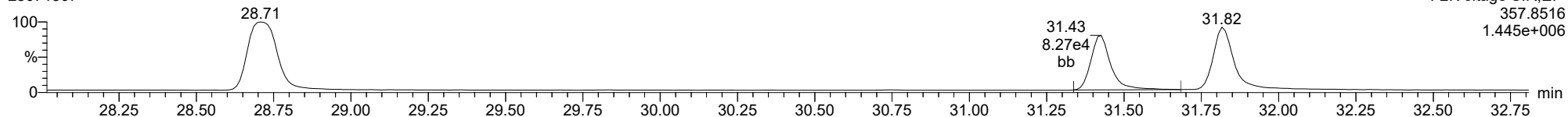
23071307



F2:Voltage SIR,EI+
355.8546
2.237e+006

12378-PeCDD

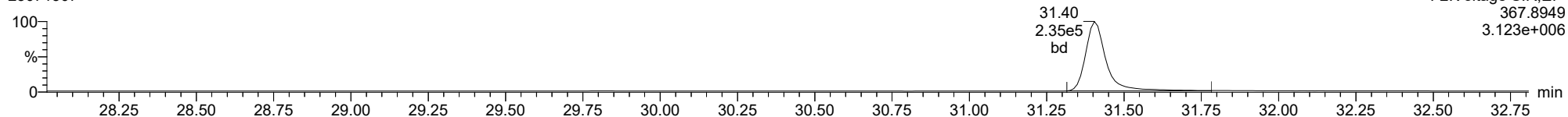
23071307



F2:Voltage SIR,EI+
357.8516
1.445e+006

13C-12378-PeCDD

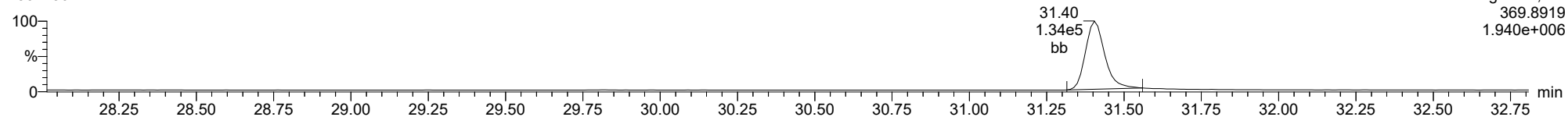
23071307



F2:Voltage SIR,EI+
367.8949
3.123e+006

13C-12378-PeCDD

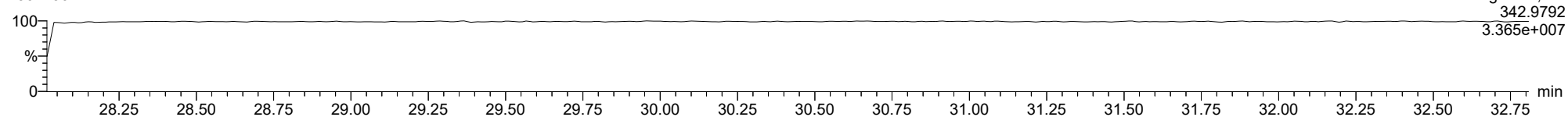
23071307



F2:Voltage SIR,EI+
369.8919
1.940e+006

FUNCTION2 PFK

23071307

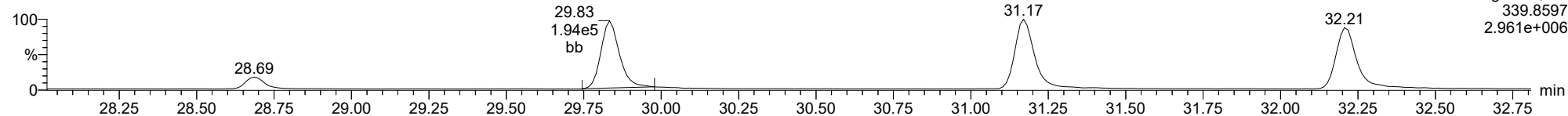


F2:Voltage SIR,EI+
342.9792
3.365e+007

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

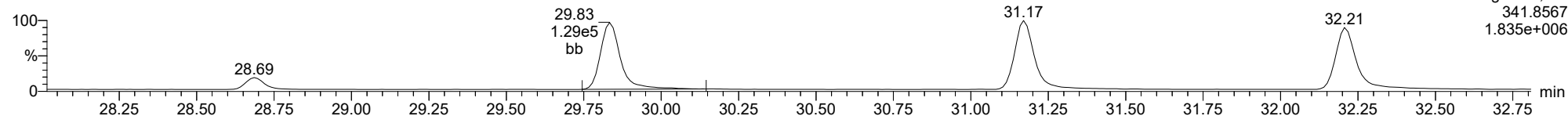
12378-PeCDF

23071307



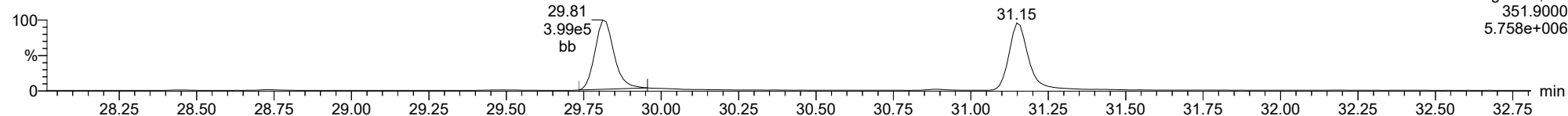
12378-PeCDF

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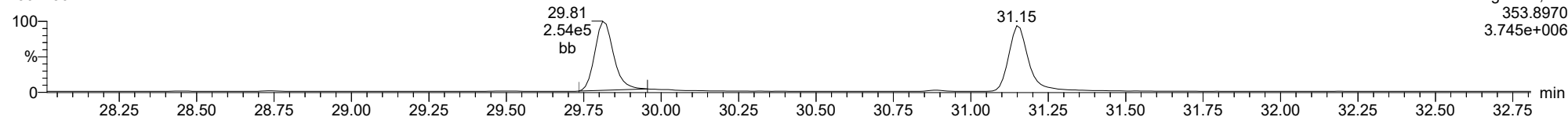
13C-12378-PeCDF

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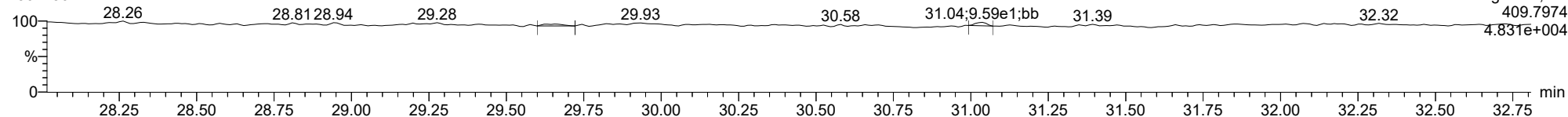
13C-12378-PeCDF

23071307



FUNCTION2 HPCDPE

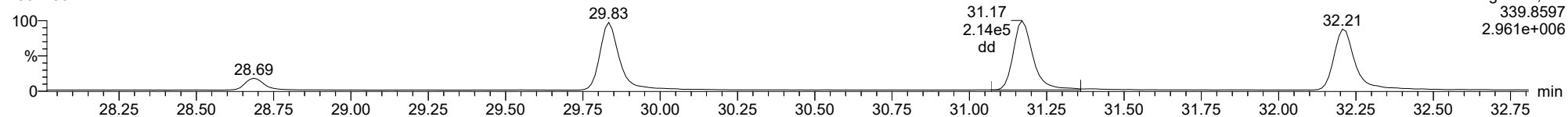
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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

23478-PeCDF

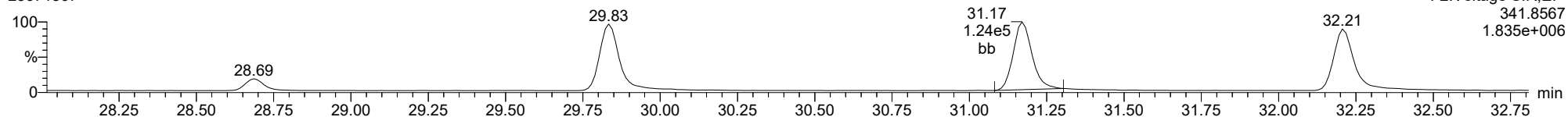
23071307



F2:Voltage SIR,El+
339.8597
2.961e+006

23478-PeCDF

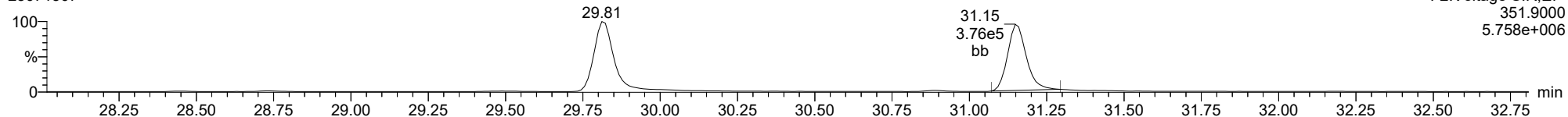
23071307



F2:Voltage SIR,El+
341.8567
1.835e+006

13C-23478-PeCDF

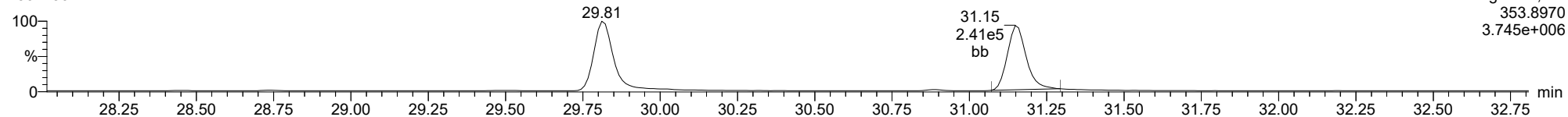
23071307



F2:Voltage SIR,El+
351.9000
5.758e+006

13C-23478-PeCDF

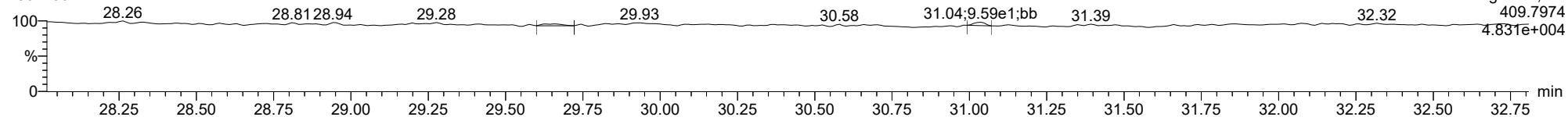
23071307



F2:Voltage SIR,El+
353.8970
3.745e+006

FUNCTION2 HPCDPE

23071307

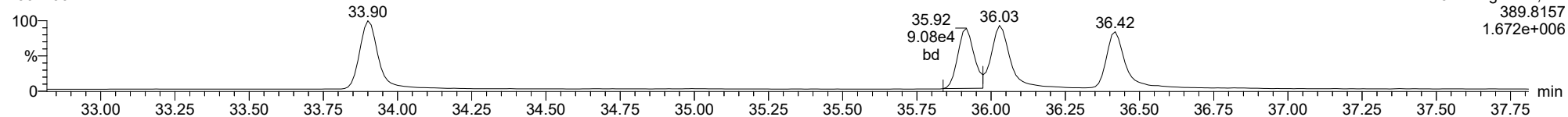


F2:Voltage SIR,El+
409.7974
4.831e+004

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

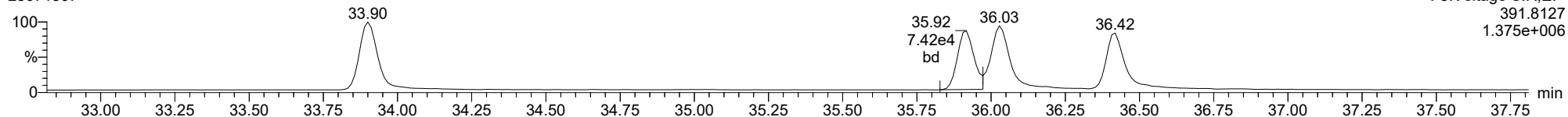
23071307



F3:Voltage SIR,El+
389.8157
1.672e+006

123478-HxCDD

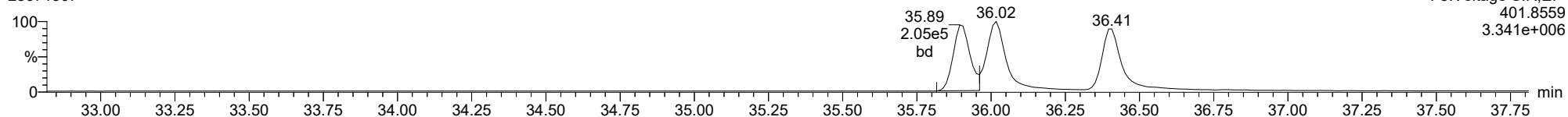
23071307



F3:Voltage SIR,El+
391.8127
1.375e+006

13C-123478-HxCDD

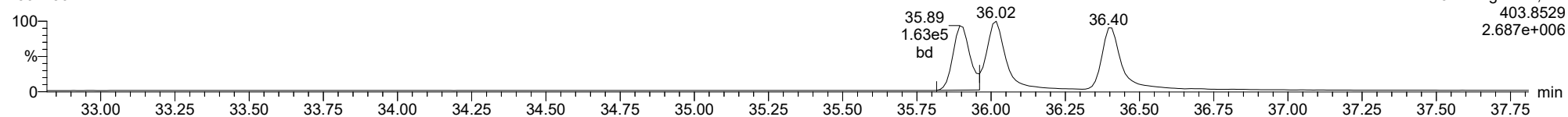
23071307



F3:Voltage SIR,El+
401.8559
3.341e+006

13C-123478-HxCDD

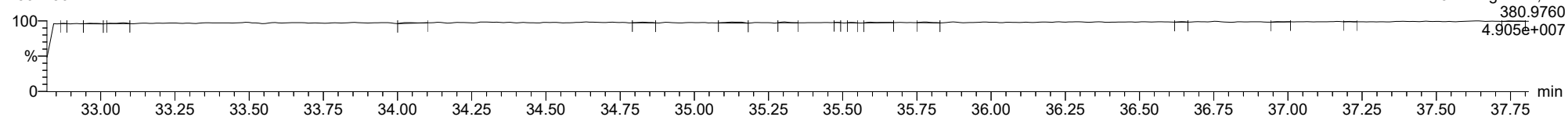
23071307



F3:Voltage SIR,El+
403.8529
2.687e+006

FUNCTION3 PFK

23071307

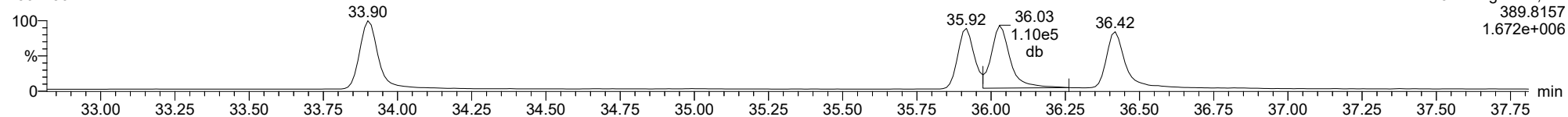


F3:Voltage SIR,El+
380.9760
4.905e+007

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

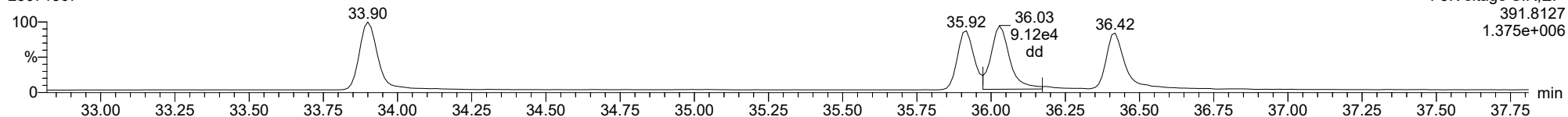
123678-HxCDD

23071307



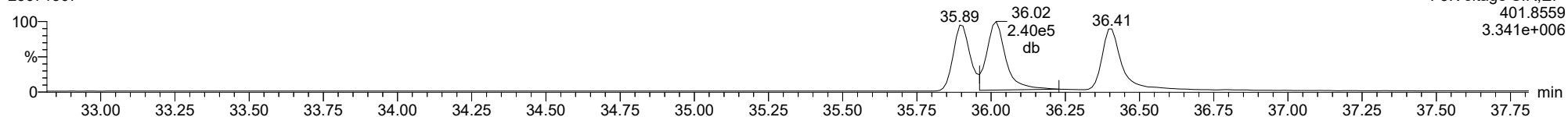
123678-HxCDD

23071307



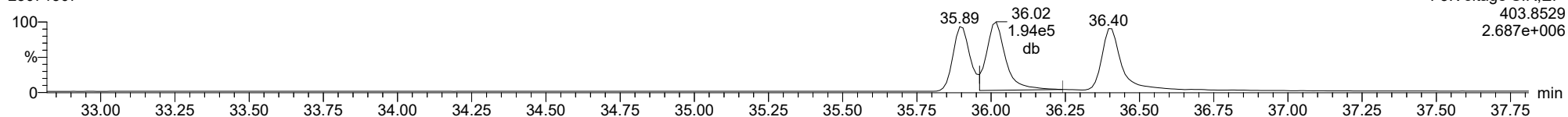
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23071307



13C-123678-HxCDD

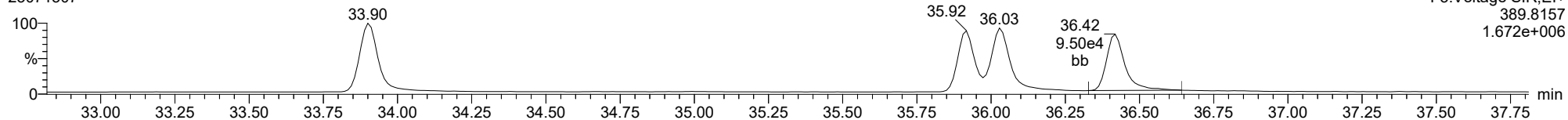
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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

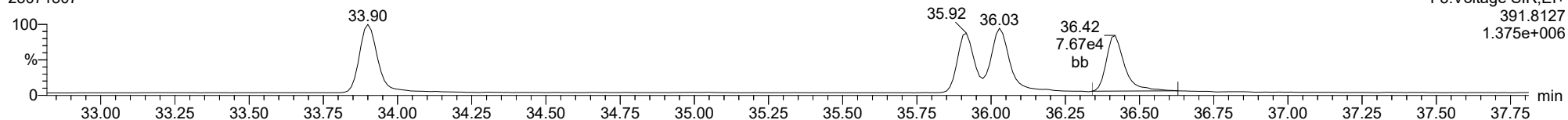
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23071307



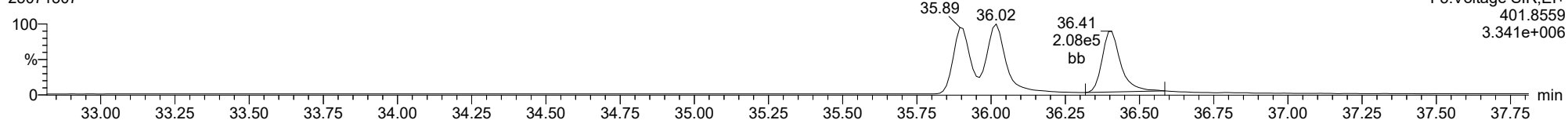
123789-HxCDD

23071307



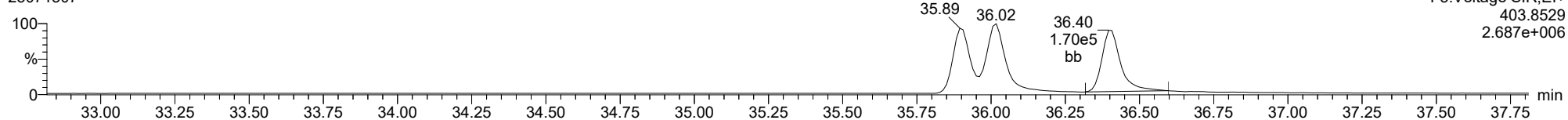
13C-123789-HxCDD

23071307



13C-123789-HxCDD

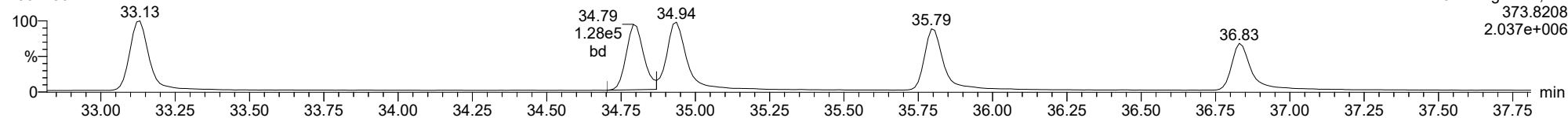
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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

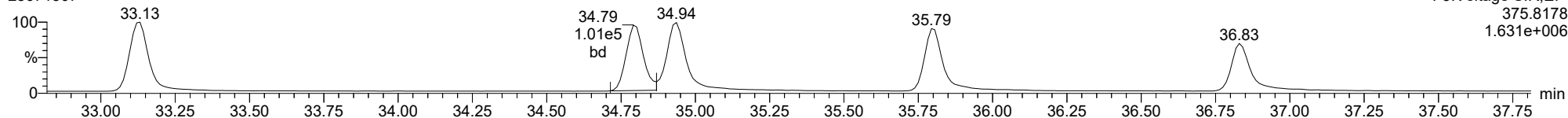
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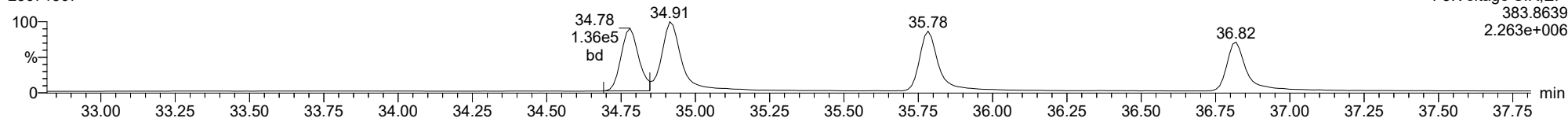
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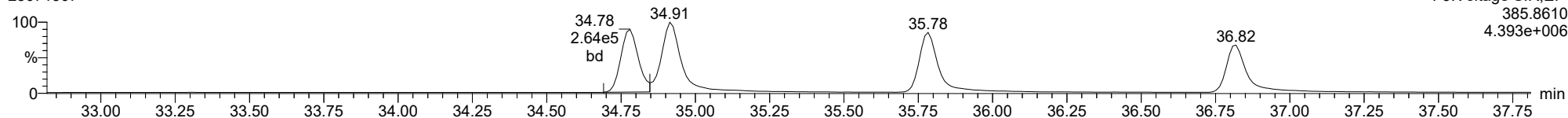
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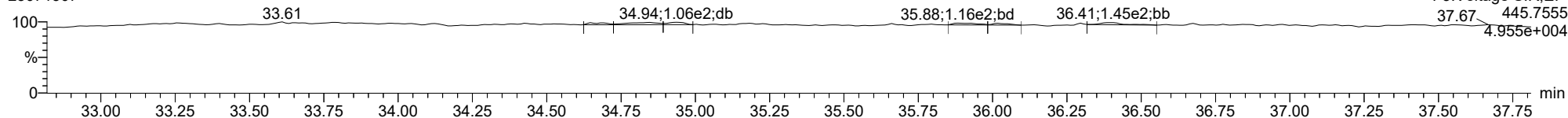
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23071307



FUNCTION3 OCDPE

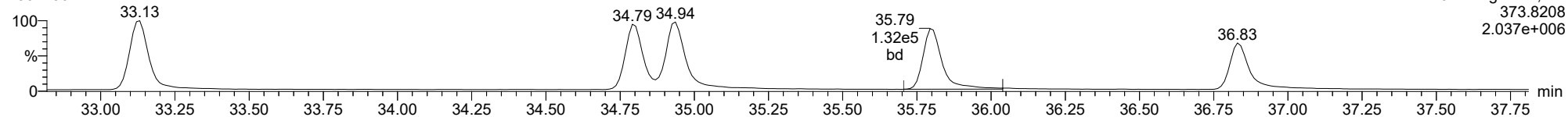
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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

234678-HxCDF

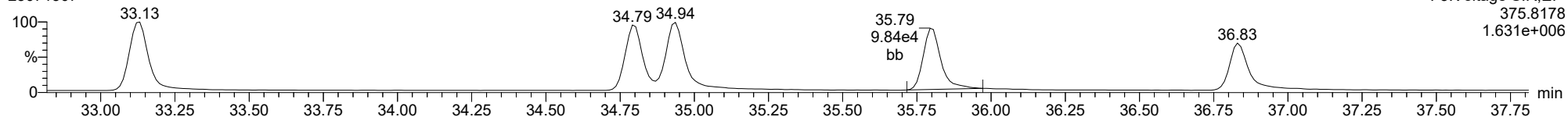
23071307



F3:Voltage SIR,El+
373.8208
2.037e+006

234678-HxCDF

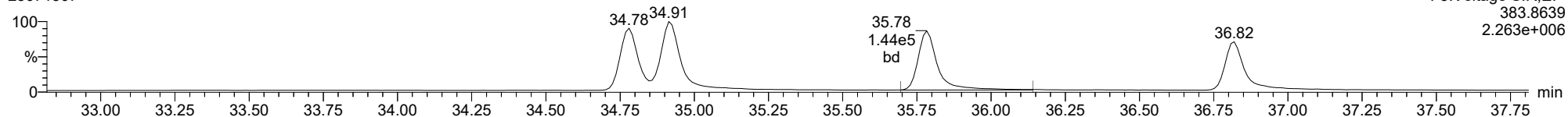
23071307



F3:Voltage SIR,El+
375.8178
1.631e+006

13C-234678-HxCDF

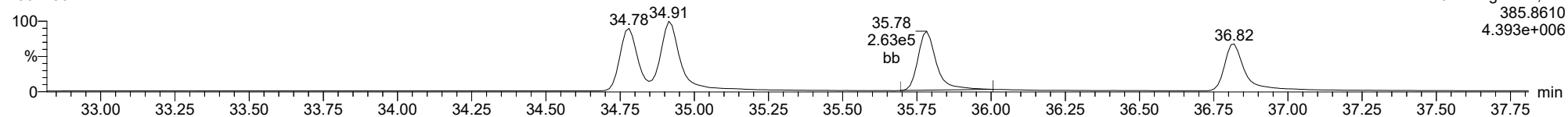
23071307



F3:Voltage SIR,El+
383.8639
2.263e+006

13C-234678-HxCDF

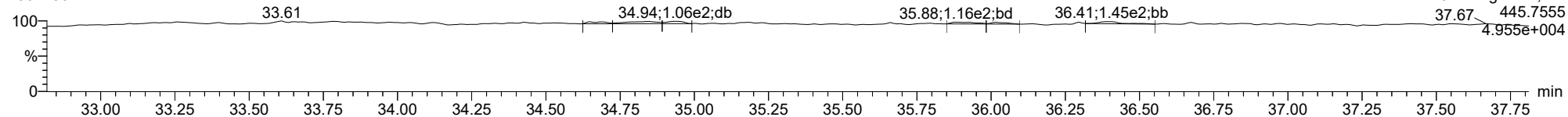
23071307



F3:Voltage SIR,El+
385.8610
4.393e+006

FUNCTION3 OCDPE

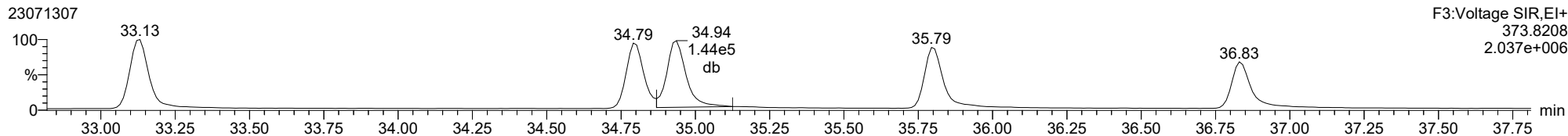
23071307



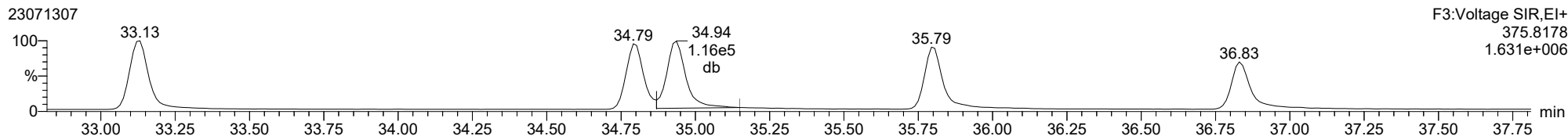
F3:Voltage SIR,El+
37.67 445.7555
4.955e+004

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

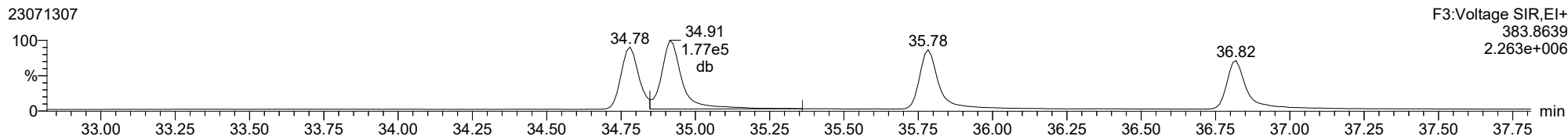
123678-HxCDF



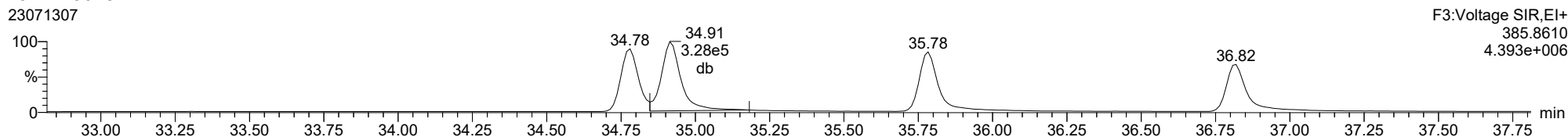
123678-HxCDF



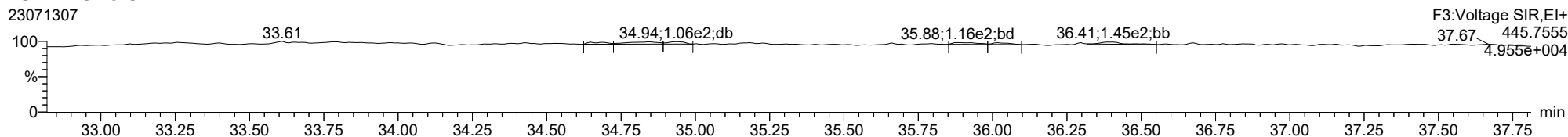
13C-123678-HxCDF



13C-123678-HxCDF

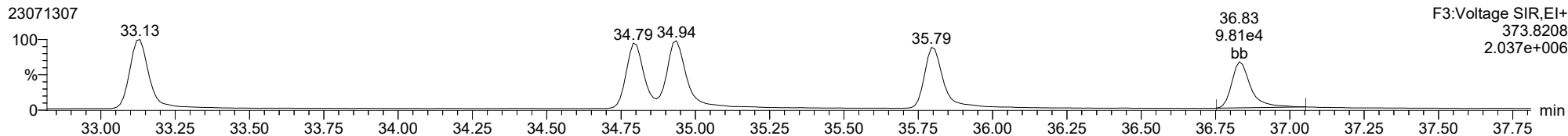


FUNCTION3 OCDPE

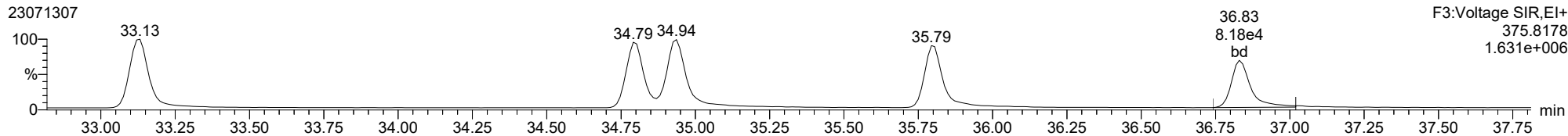


ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

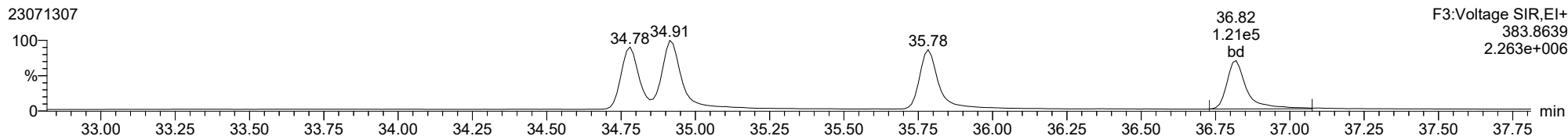
123789-HxCDF



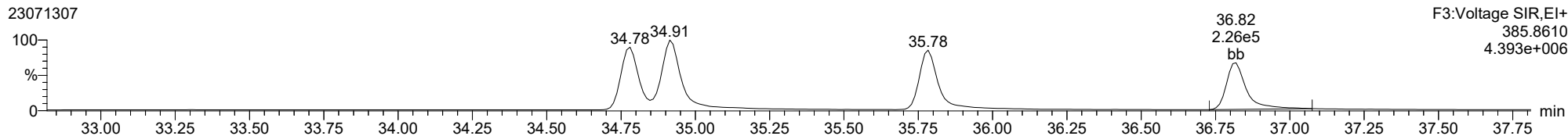
123789-HxCDF



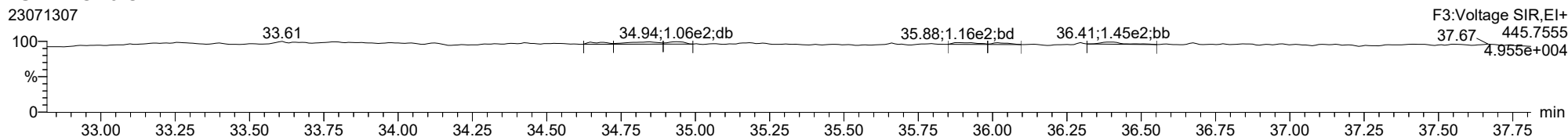
13C-123789-HxCDF



13C-123789-HxCDF



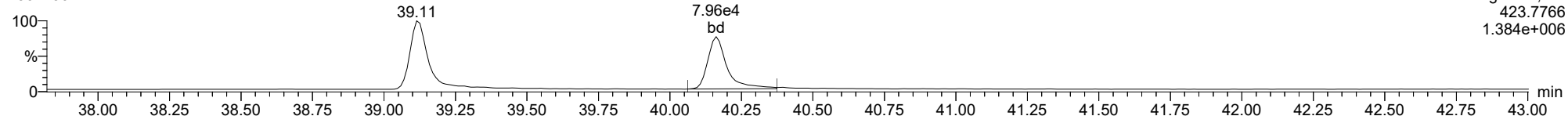
FUNCTION3 OCDPE



ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

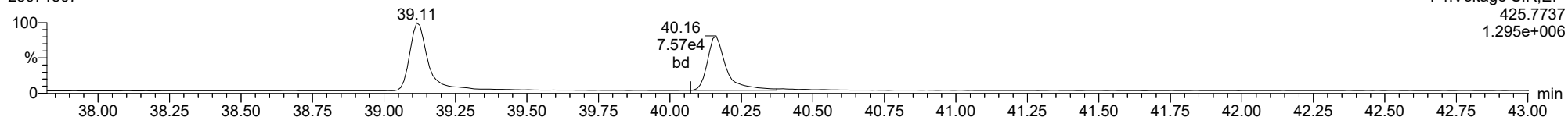
1234678-HpCDD

23071307



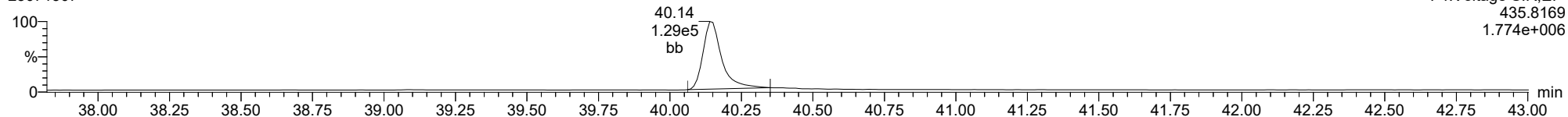
1234678-HpCDD

23071307



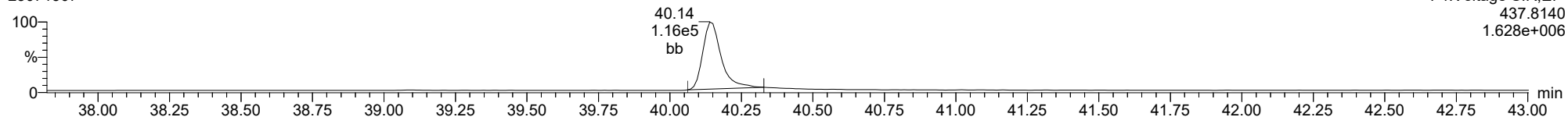
13C-1234678-HpCDD

23071307



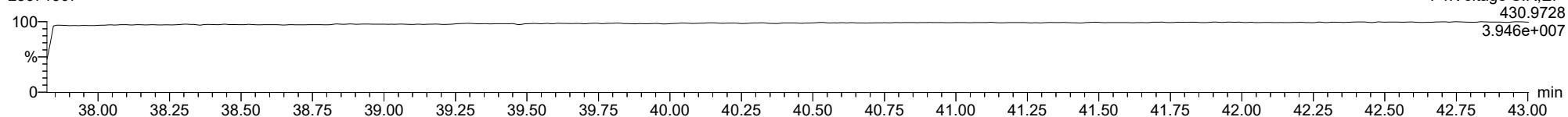
13C-1234678-HpCDD

23071307



FUNCTION4 PFK

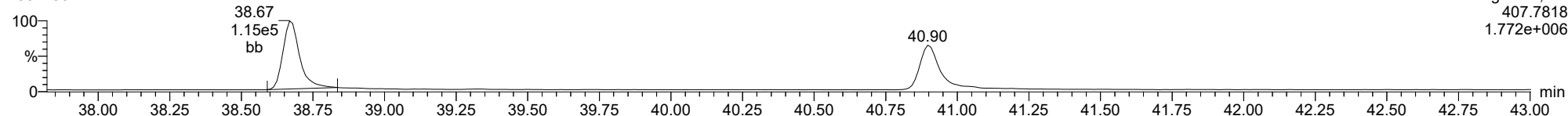
23071307



ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

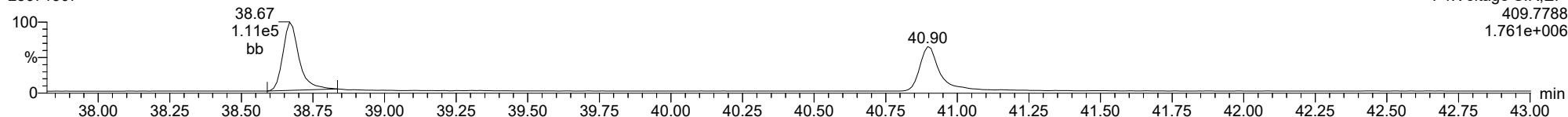
1234678-HpCDF

23071307



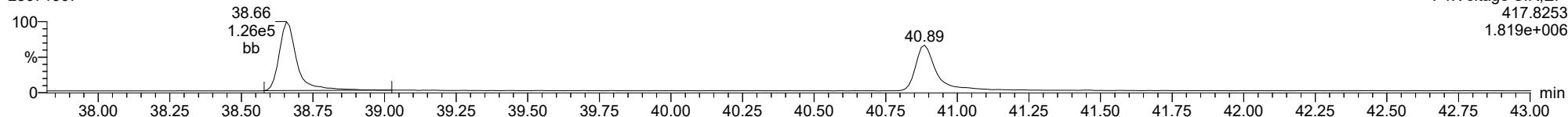
1234678-HpCDF

23071307



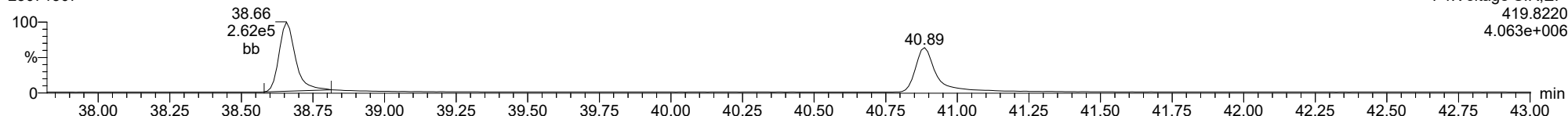
13C-1234678-HpCDF

23071307



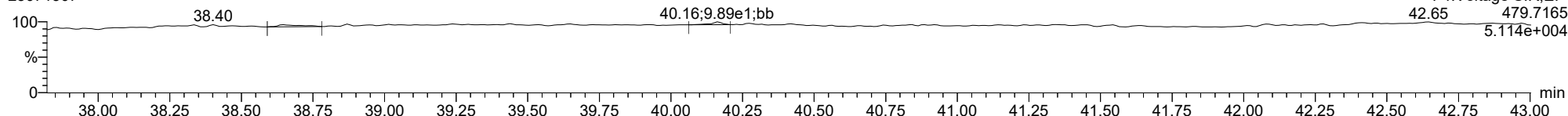
13C-1234678-HpCDF

23071307



FUNCTION4 NCDPE

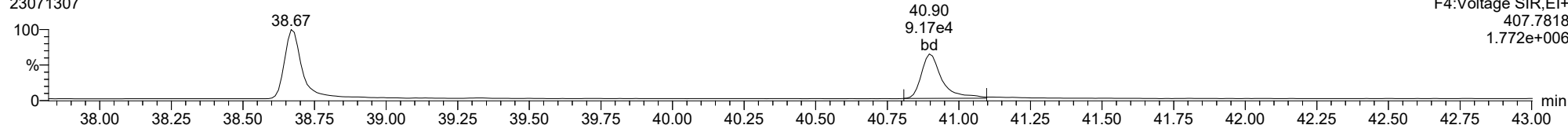
23071307



ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

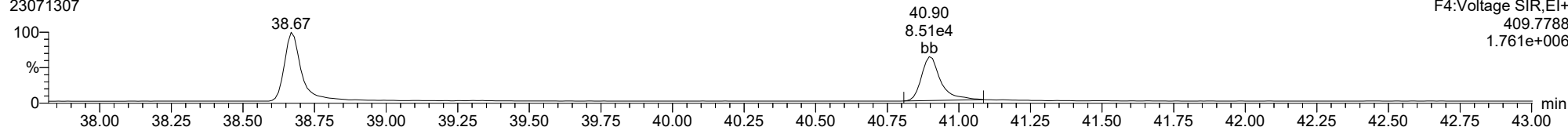
23071307



F4:Voltage SIR,EI+
407.7818
1.772e+006

1234789-HpCDF

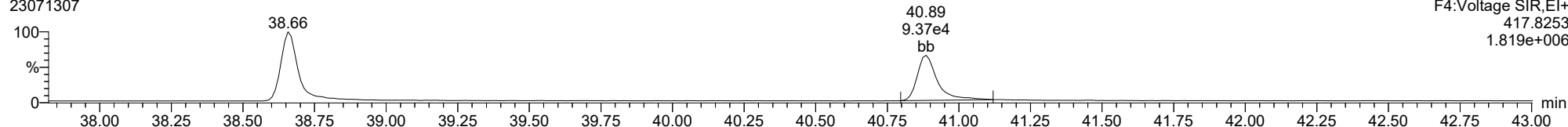
23071307



F4:Voltage SIR,EI+
409.7788
1.761e+006

13C-1234789-HpCDF

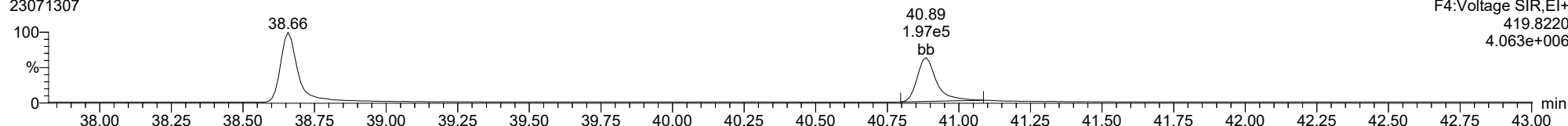
23071307



F4:Voltage SIR,EI+
417.8253
1.819e+006

13C-1234789-HpCDF

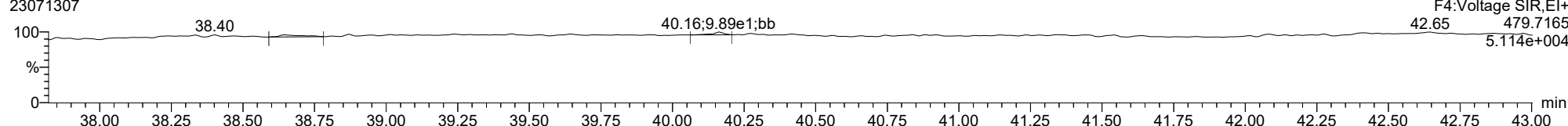
23071307



F4:Voltage SIR,EI+
419.8220
4.063e+006

FUNCTION4 NCDPE

23071307

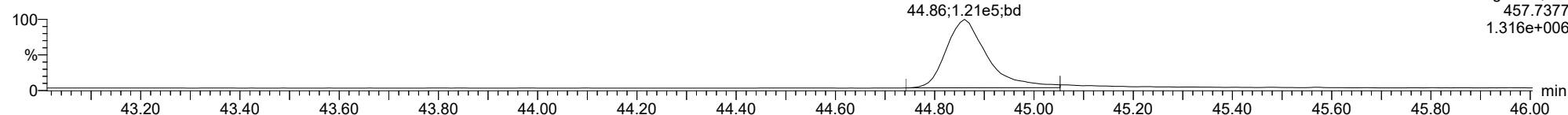


F4:Voltage SIR,EI+
42.65
479.7165
5.114e+004

ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

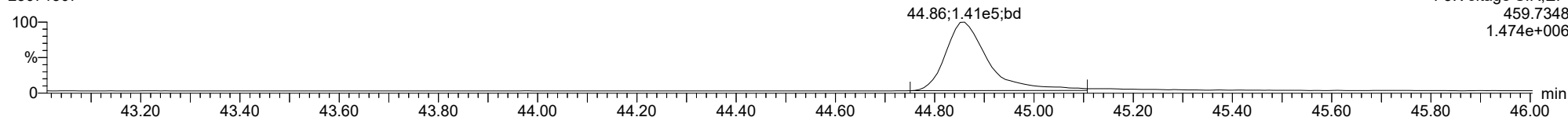
OCDD

23071307



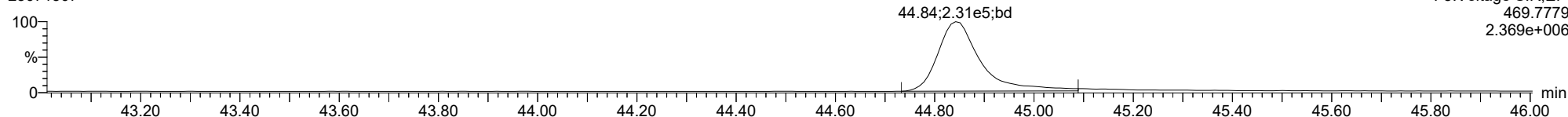
OCDD

23071307



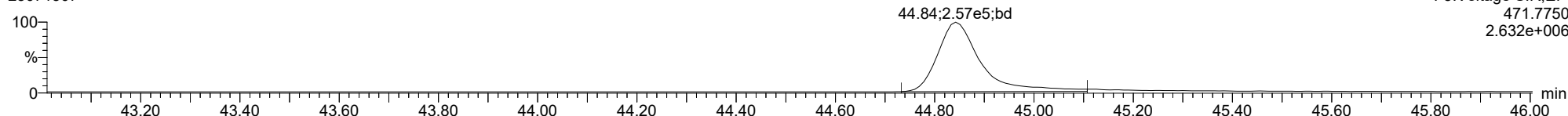
13C-OCDD

23071307



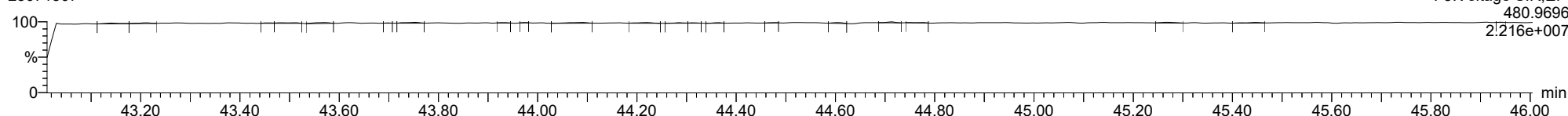
13C-OCDD

23071307



FUNCTION5 PFK

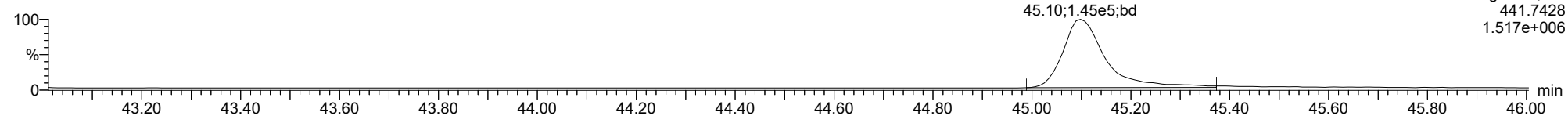
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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

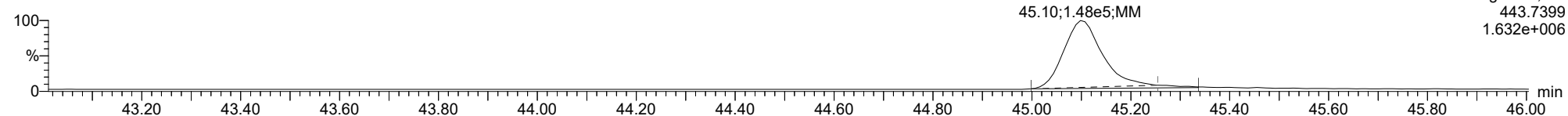
OCDF

23071307



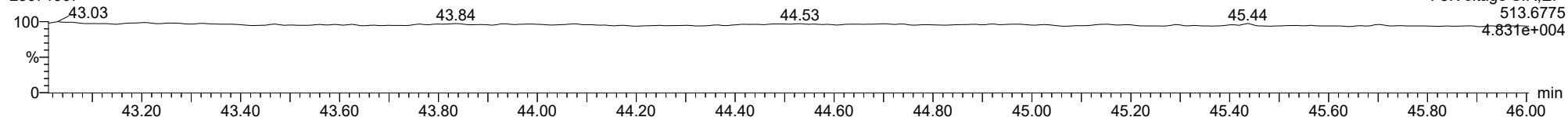
OCDF

23071307



FUNCTION5 DCDPE

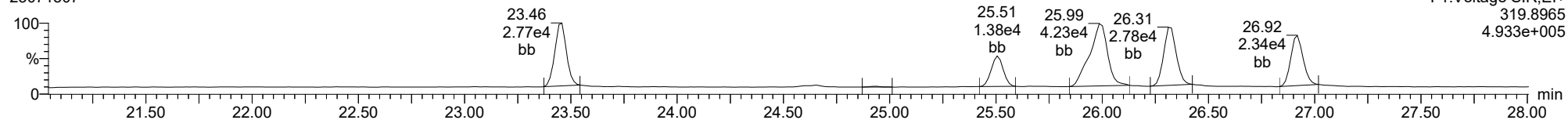
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ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

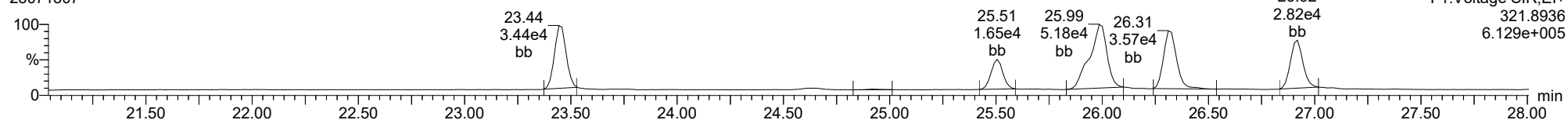
Total-tetradoxins

23071307



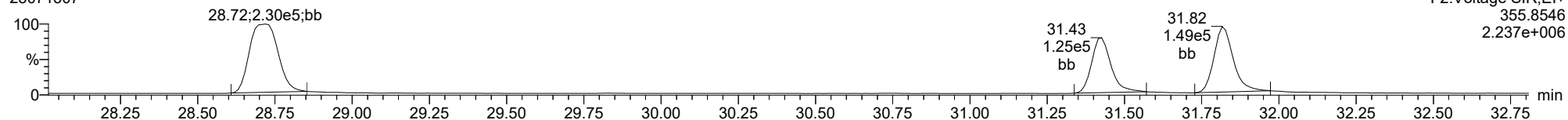
Total-tetradoxins

23071307



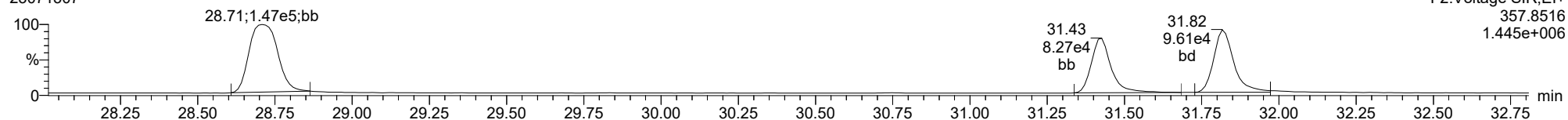
Total-pentadoxins

23071307



Total-pentadoxins

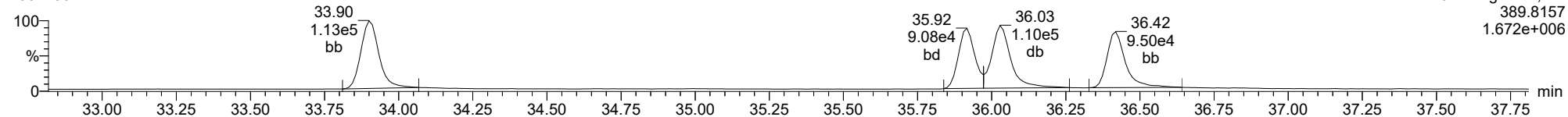
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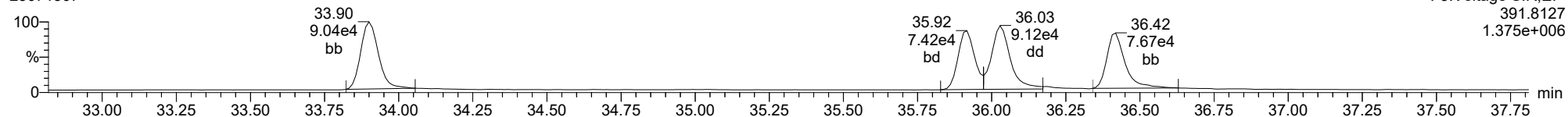
Total-hexadioxins

23071307



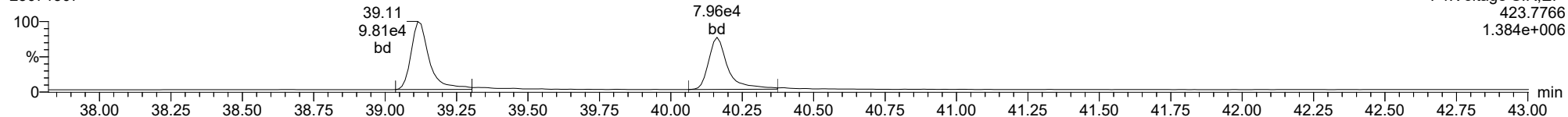
Total-hexadioxins

23071307



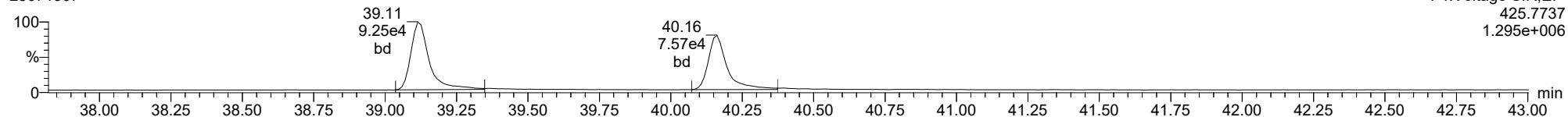
Total-heptadioxins

23071307



Total-heptadioxins

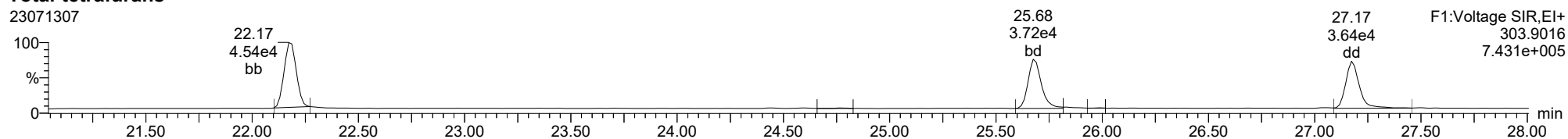
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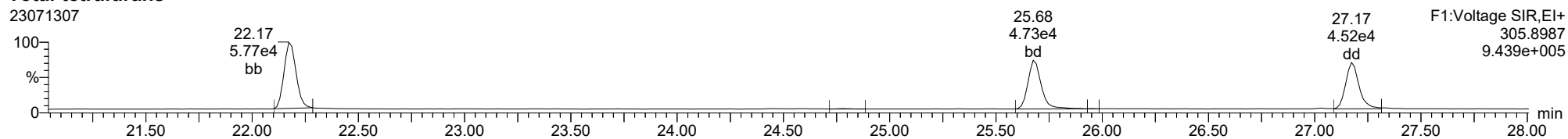
Total-tetrafurans

23071307



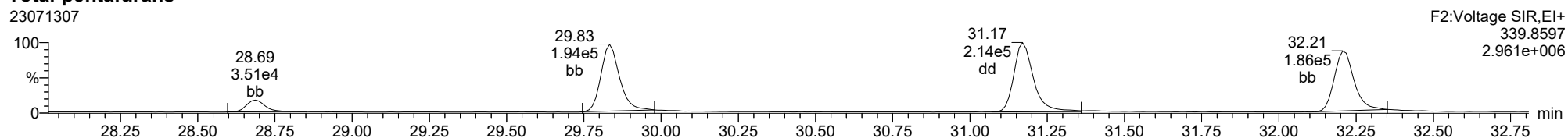
Total-tetrafurans

23071307



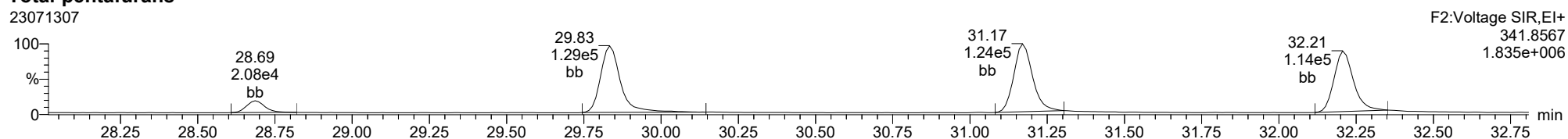
Total-pentafurans

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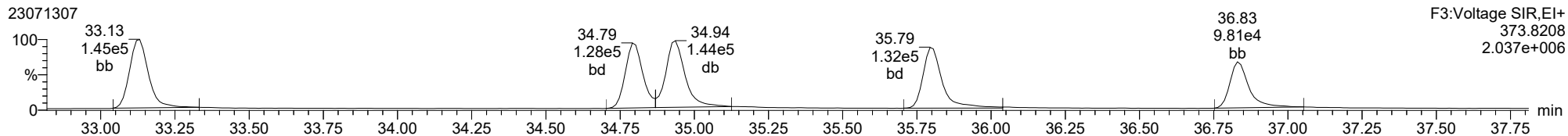
Total-pentafurans

23071307

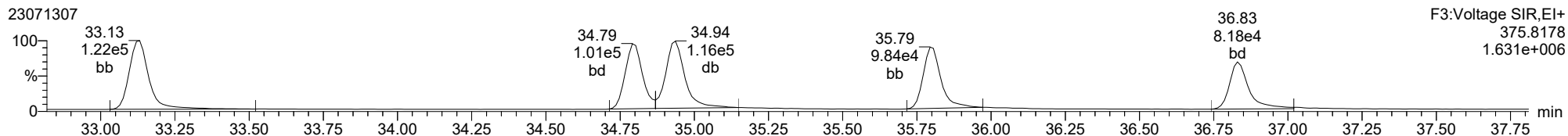


ID: CS3CA, Name: 23071307, Date: 13-Jul-2023, Time: 15:45:08, Conditions: AUTOSPEC01, User: pk

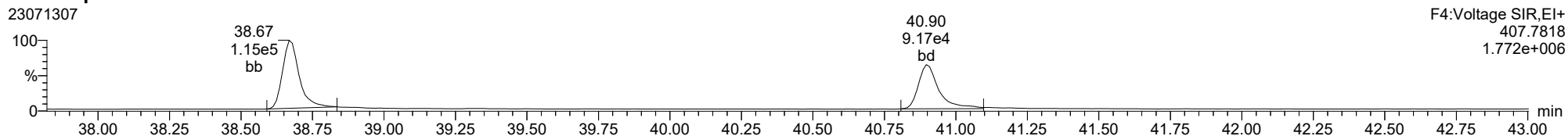
Total-hexafurans



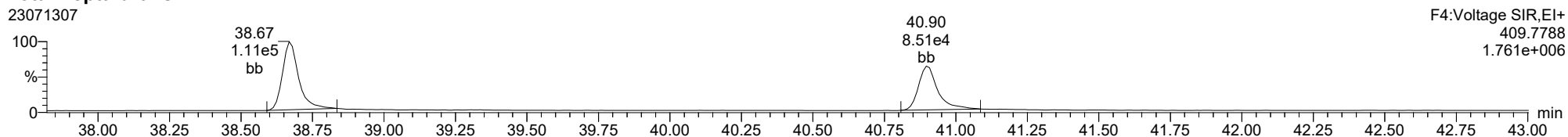
Total-hexafurans



Total-heptafurans



Total-heptafurans



Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:29:08 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.676	1.001	1.760e5	2.265e5	0.951	0.777	0.770	1072	1392	2.47e6	3.19e6	2307.6	2291.7	NO	bb	bb	38.344
12378-PeCDF	29.833	1.000	9.163e5	5.617e5	0.963	1.632	1.550	3007	2695	1.34e7	8.20e6	4446.0	3044.2	NO	bb	bb	197.777
23478-PeCDF	31.170	1.000	9.461e5	5.973e5	1.072	1.584	1.550	3007	2695	1.36e7	8.47e6	4518.5	3142.3	NO	bb	bb	195.649
123478-HxCDF	34.802	1.001	5.665e5	4.461e5	1.142	1.270	1.240	2817	2844	8.42e6	6.64e6	2988.0	2333.0	NO	bd	bd	195.073
234678-HxCDF	35.805	1.001	6.062e5	4.842e5	1.138	1.252	1.240	2817	2844	8.03e6	6.34e6	2848.6	2230.4	NO	bd	bd	215.443
123678-HxCDF	34.936	1.000	7.026e5	5.065e5	1.100	1.387	1.240	2817	2844	8.97e6	6.93e6	3185.1	2438.1	NO	dd	db	210.971
123789-HxCDF	36.830	1.000	4.965e5	3.887e5	1.066	1.277	1.240	2817	2844	6.08e6	4.89e6	2158.0	1719.0	NO	bd	bd	211.938
1234678-HpCDF	38.680	1.000	4.954e5	4.813e5	1.210	1.029	1.050	3495	2834	7.60e6	7.26e6	2175.8	2562.4	NO	bb	bb	194.059
1234789-HpCDF	40.908	1.001	3.855e5	4.067e5	1.213	0.948	1.050	3495	2834	4.90e6	4.71e6	1402.7	1661.8	NO	bb	bd	213.377
OCDF	45.107	1.006	5.817e5	5.973e5	1.391	0.974	0.890	1983	2122	6.06e6	6.47e6	3055.8	3049.1	NO	MM	bb	392.371
2378-TCDD	26.325	1.001	1.226e5	1.529e5	1.197	0.802	0.770	1083	814	1.79e6	2.22e6	1650.5	2728.4	NO	bb	bb	39.202
12378-PeCDD	31.427	1.001	5.601e5	3.501e5	1.129	1.600	1.550	1929	1326	7.73e6	4.92e6	4006.8	3713.5	NO	bb	bb	206.977
123478-HxCDD	35.917	1.000	3.879e5	3.173e5	0.917	1.223	1.240	3093	1789	6.19e6	5.02e6	2002.8	2808.4	NO	bd	bd	199.625
123678-HxCDD	36.028	1.000	4.477e5	3.699e5	0.944	1.210	1.240	3093	1789	5.85e6	4.84e6	1890.2	2705.9	NO	db	db	199.765
123789-HxCDD	36.418	1.011	4.168e5	3.376e5	0.869	1.235	1.240	3093	1789	5.56e6	4.50e6	1797.5	2514.5	NO	bd	bd	212.078
1234678-HpCDD	40.161	1.000	3.368e5	3.001e5	1.237	1.122	1.050	2117	1627	4.17e6	3.97e6	1970.7	2439.7	NO	bd	bb	205.763
OCDD	44.869	1.000	4.646e5	4.933e5	1.212	0.942	0.890	3088	2688	4.66e6	5.17e6	1508.3	1923.7	NO	bd	bd	365.637
13C-2378-TCDF	25.661	1.007	4.863e5	6.169e5	1.920	0.788	0.770	1548	1636	6.81e6	8.75e6	4397.5	5346.2	NO	bb	bb	99.673
13C-12378-PeCDF	29.822	1.170	4.736e5	3.025e5	1.455	1.566	1.550	4103	1914	6.75e6	4.33e6	1645.2	2263.8	NO	bb	bb	92.484
13C-23478-PeCDF	31.159	1.222	4.481e5	2.878e5	1.363	1.557	1.550	4103	1914	6.19e6	3.92e6	1507.6	2048.6	NO	bb	bb	93.642
13C-123478-HxCDF	34.780	0.955	1.529e5	3.018e5	1.119	0.507	0.510	2222	2675	2.24e6	4.38e6	1006.8	1636.1	NO	bd	bd	102.339
13C-123678-HxCDF	34.925	0.959	1.912e5	3.300e5	1.343	0.580	0.510	2222	2675	2.42e6	4.50e6	1090.8	1683.6	NO	dd	db	97.740
13C-234678-HxCDF	35.783	0.983	1.563e5	2.885e5	1.113	0.542	0.510	2222	2675	2.08e6	4.07e6	936.8	1522.0	NO	bb	bb	100.682
13C-123789-HxCDF	36.819	1.011	1.370e5	2.547e5	0.959	0.538	0.510	2222	2675	1.73e6	3.39e6	776.3	1268.4	NO	bb	bb	102.883
13C-1234678-HpCDF	38.668	1.062	1.358e5	2.803e5	1.058	0.485	0.440	1618	2455	1.90e6	4.07e6	1171.4	1658.1	NO	bd	bb	98.987
13C-1234789-HpCDF	40.886	1.123	9.461e4	2.115e5	0.809	0.447	0.440	1618	2455	1.20e6	2.69e6	744.3	1094.4	NO	bb	bb	95.341
13C-1234-TCDD	25.492	0.000	2.583e5	3.183e5	1.000	0.811	0.770	1888	1252	3.79e6	4.74e6	2009.0	3783.1	NO	bb	bb	100.000
13C-2378-TCDD	26.297	1.032	2.582e5	3.290e5	1.104	0.785	0.770	1888	1252	3.69e6	4.75e6	1955.9	3791.7	NO	bb	bb	92.215
13C-12378-PeCDD	31.404	1.232	2.405e5	1.489e5	0.770	1.615	1.550	823	1098	3.29e6	2.04e6	3993.5	1857.9	NO	bb	bb	87.662
13C-123478-HxCDD	35.905	0.986	2.152e5	1.700e5	0.959	1.266	1.240	1739	1441	3.29e6	2.59e6	1890.9	1801.3	NO	bd	bd	101.110
13C-123678-HxCDD	36.017	0.989	2.424e5	1.911e5	1.120	1.268	1.240	1739	1441	3.24e6	2.56e6	1862.1	1776.8	NO	db	db	97.458
13C-1234678-HpCDD	40.150	1.103	1.361e5	1.142e5	0.640	1.192	1.050	998	1633	1.71e6	1.54e6	1715.2	945.2	NO	bd	bb	98.427
13C-OCDD	44.851	1.232	2.054e5	2.267e5	0.555	0.906	0.890	1677	1840	2.05e6	2.26e6	1220.2	1228.5	NO	bd	bd	195.950
13C-123789-HxCDD	36.407	0.000	2.199e5	1.773e5	1.000	1.240	1.240	1739	1441	3.08e6	2.49e6	1773.4	1727.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.311	1.032	2.450e5		1.129			1750		3.43e6		1961.9			bb		37.629

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					1.201		0.770	1072	1392								
1289-TCDF					0.950		0.770	1072	1392								
13468-PECDF					1.142		1.550	617	923								
12389-PECDF					0.917		1.550	3007	2695								
123468-HXCDF					1.332		1.240	2817	2844								
1368-TCDD					1.148		0.770	1083	814								
1289-TCDD					0.955		0.770	1083	814								
12479-PECDD					2.043		1.550	1929	1326								
12389-PECDD					1.326		1.550	1929	1326								
124679-HXCDD					1.104		1.240	3093	1789								
1234679-HPCDD					1.554		1.050	2117	1627								
Total-tetrafurans			1.760e5		1.034			1072		2.47e6						38.344	
Total-penta1			0.000e0					617		0.00e0							
Total-pentafurans			1.864e6		0.984			3007		2.70e7						393.714	
Total-hexafurans			2.372e6		1.155			2817		3.15e7						833.425	
Total-heptafurans			8.809e5		1.211			3495		1.25e7						407.437	
Total-Furans			5.874e6		1.119			1072		7.95e7						2065.291	
Total-tetradoxins			1.256e5		1.100			1083		1.83e6						40.228	
Total-pentadoxins			5.610e5		1.499			1929		7.75e6						207.265	
Total-hexadoxins			1.255e6		0.958			3093		1.76e7						612.792	
Total-heptadoxins			3.368e5		1.396			2117		4.17e6						205.763	
Total-Dioxins			2.743e6		1.203			1083		3.60e7						1431.685	
Total-TEQ			8.617e6					1083		1.16e8						3496.976	
FUNCTION1 PFK			4.998e7					404969		2.04e8							
FUNCTION2 PFK			3.287e5					220190		9.99e6						0.000	
FUNCTION3 PFK			3.125e5					320443		1.03e7						0.000	
FUNCTION4 PFK			2.197e5					187593		3.82e6							
FUNCTION5 PFK			6.678e4					167401		2.56e6							
FUNCTION1 HXCD...			5.424e2					476		6.94e3						0.000	
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.393e3					645		2.54e4						0.000	
FUNCTION3 OCDPE			0.000e0					679		0.00e0							
FUNCTION4 NCDPE			3.902e2					641		7.25e3						0.000	
FUNCTION5 DCDPE			2.155e2					499		4.17e3						0.000	

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.68	1.760e5	2.265e5	0.951	0.78	0.77	2307.6	YES	NO	bb	bb	38.344

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	30.39	3.395e2	2.470e2	0.984	1.37	1.55	3.7	YES	NO	db	bb	0.079
2	12378-PeCDF	29.83	9.163e5	5.617e5	0.963	1.63	1.55	4446.0	YES	NO	bb	bb	197.777
3	Total-pentafurans	31.58	3.586e2	2.028e2	0.984	1.77	1.55	3.6	NO	NO	bb	bd	0.075
4	Total-pentafurans	31.42	5.851e2	4.016e2	0.984	1.46	1.55	0.0	NO	NO	bb	bb	0.133
5	23478-PeCDF	31.17	9.461e5	5.973e5	1.072	1.58	1.55	4518.5	YES	NO	bb	bb	195.649

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.83	4.965e5	3.887e5	1.066	1.28	1.24	2158.0	YES	NO	bd	bd	211.938
2	234678-HxCDF	35.81	6.062e5	4.842e5	1.138	1.25	1.24	2848.6	YES	NO	bd	bd	215.443
3	123678-HxCDF	34.94	7.026e5	5.065e5	1.100	1.39	1.24	3185.1	YES	NO	dd	db	210.971
4	123478-HxCDF	34.80	5.665e5	4.461e5	1.142	1.27	1.24	2988.0	YES	NO	bd	bd	195.073

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.68	4.954e5	4.813e5	1.210	1.03	1.05	2175.8	YES	NO	bb	bb	194.059
2	1234789-HpCDF	40.91	3.855e5	4.067e5	1.213	0.95	1.05	1402.7	YES	NO	bb	bd	213.377

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.68	1.760e5	2.265e5	0.951	0.78	0.77	2307.6	YES	NO	bb	bb	38.344
2	Total-pentafurans	30.39	3.395e2	2.470e2	0.984	1.37	1.55	3.7	YES	NO	db	bb	0.079
3	12378-PeCDF	29.83	9.163e5	5.617e5	0.963	1.63	1.55	4446.0	YES	NO	bb	bb	197.777
4	Total-pentafurans	31.58	3.586e2	2.028e2	0.984	1.77	1.55	3.6	NO	NO	bb	bd	0.075
5	Total-pentafurans	31.42	5.851e2	4.016e2	0.984	1.46	1.55	0.0	NO	NO	bb	bb	0.133
6	23478-PeCDF	31.17	9.461e5	5.973e5	1.072	1.58	1.55	4518.5	YES	NO	bb	bb	195.649
7	123789-HxCDF	36.83	4.965e5	3.887e5	1.066	1.28	1.24	2158.0	YES	NO	bd	bd	211.938
8	234678-HxCDF	35.81	6.062e5	4.842e5	1.138	1.25	1.24	2848.6	YES	NO	bd	bd	215.443
9	123678-HxCDF	34.94	7.026e5	5.065e5	1.100	1.39	1.24	3185.1	YES	NO	dd	db	210.971
10	123478-HxCDF	34.80	5.665e5	4.461e5	1.142	1.27	1.24	2988.0	YES	NO	bd	bd	195.073
11	1234678-HpCDF	38.68	4.954e5	4.813e5	1.210	1.03	1.05	2175.8	YES	NO	bb	bb	194.059
12	1234789-HpCDF	40.91	3.855e5	4.067e5	1.213	0.95	1.05	1402.7	YES	NO	bb	bd	213.377
13	OCDF	45.11	5.817e5	5.973e5	1.391	0.97	0.89	3055.8	YES	NO	MM	bb	392.371

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.33	1.226e5	1.529e5	1.197	0.80	0.77	1650.5	YES	NO	bb	bb	39.202
2	Total-tetradoxins	25.93	3.005e3	3.621e3	1.100	0.83	0.77	35.3	YES	NO	bb	bd	1.026

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	31.69	2.340e2	1.726e2	1.499	1.36	1.55	3.5	NO	NO	bb	bb	0.070
2	12378-PeCDD	31.43	5.601e5	3.501e5	1.129	1.60	1.55	4006.8	YES	NO	bb	bb	206.977
3	Total-pentadioxins	30.75	7.378e2	5.390e2	1.499	1.37	1.55	6.1	YES	NO	bb	bb	0.219

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.42	4.168e5	3.376e5	0.869	1.23	1.24	1797.5	YES	NO	bd	bd	212.078
2	123678-HxCDD	36.03	4.477e5	3.699e5	0.944	1.21	1.24	1890.2	YES	NO	db	db	199.765
3	123478-HxCDD	35.92	3.879e5	3.173e5	0.917	1.22	1.24	2002.8	YES	NO	bd	bd	199.625
4	Total-hexadioxins	36.83	2.989e3	2.207e3	0.958	1.35	1.24	12.4	YES	NO	dd	dd	1.324

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.16	3.368e5	3.001e5	1.237	1.12	1.05	1970.7	YES	NO	bd	bb	205.763

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	26.33	1.226e5	1.529e5	1.197	0.80	0.77	1650.5	YES	NO	bb	bb	39.202
2	Total-tetradoxins	25.93	3.005e3	3.621e3	1.100	0.83	0.77	35.3	YES	NO	bb	bd	1.026
3	Total-pentadoxins	31.69	2.340e2	1.726e2	1.499	1.36	1.55	3.5	NO	NO	bb	bb	0.070
4	12378-PeCDD	31.43	5.601e5	3.501e5	1.129	1.60	1.55	4006.8	YES	NO	bb	bb	206.977
5	Total-pentadoxins	30.75	7.378e2	5.390e2	1.499	1.37	1.55	6.1	YES	NO	bb	bb	0.219
6	123789-HxCDD	36.42	4.168e5	3.376e5	0.869	1.23	1.24	1797.5	YES	NO	bd	bd	212.078
7	123678-HxCDD	36.03	4.477e5	3.699e5	0.944	1.21	1.24	1890.2	YES	NO	db	db	199.765
8	123478-HxCDD	35.92	3.879e5	3.173e5	0.917	1.22	1.24	2002.8	YES	NO	bd	bd	199.625
9	Total-hexadoxins	36.83	2.989e3	2.207e3	0.958	1.35	1.24	12.4	YES	NO	dd	dd	1.324
10	1234678-HpCDD	40.16	3.368e5	3.001e5	1.237	1.12	1.05	1970.7	YES	NO	bd	bb	205.763
11	OCDD	44.87	4.646e5	4.933e5	1.212	0.94	0.89	1508.3	YES	NO	bd	bd	365.637

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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	25.68	1.760e5	2.265e5	0.951	0.78	0.77	2307.6	YES	NO	bb	bb	38.344
2	Total-pentafurans	30.39	3.395e2	2.470e2	0.984	1.37	1.55	3.7	YES	NO	db	bb	0.079
3	12378-PeCDF	29.83	9.163e5	5.617e5	0.963	1.63	1.55	4446.0	YES	NO	bb	bb	197.777
4	Total-pentafurans	31.58	3.586e2	2.028e2	0.984	1.77	1.55	3.6	NO	NO	bb	bd	0.075
5	Total-pentafurans	31.42	5.851e2	4.016e2	0.984	1.46	1.55	0.0	NO	NO	bb	bb	0.133
6	23478-PeCDF	31.17	9.461e5	5.973e5	1.072	1.58	1.55	4518.5	YES	NO	bb	bb	195.649
7	123789-HxCDF	36.83	4.965e5	3.887e5	1.066	1.28	1.24	2158.0	YES	NO	bd	bd	211.938
8	234678-HxCDF	35.81	6.062e5	4.842e5	1.138	1.25	1.24	2848.6	YES	NO	bd	bd	215.443
9	123678-HxCDF	34.94	7.026e5	5.065e5	1.100	1.39	1.24	3185.1	YES	NO	dd	db	210.971
10	123478-HxCDF	34.80	5.665e5	4.461e5	1.142	1.27	1.24	2988.0	YES	NO	bd	bd	195.073
11	1234678-HpCDF	38.68	4.954e5	4.813e5	1.210	1.03	1.05	2175.8	YES	NO	bb	bb	194.059
12	1234789-HpCDF	40.91	3.855e5	4.067e5	1.213	0.95	1.05	1402.7	YES	NO	bb	bd	213.377
13	OCDF	45.11	5.817e5	5.973e5	1.391	0.97	0.89	3055.8	YES	NO	MM	bb	392.371
14	2378-TCDD	26.33	1.226e5	1.529e5	1.197	0.80	0.77	1650.5	YES	NO	bb	bb	39.202
15	Total-tetradoxins	25.93	3.005e3	3.621e3	1.100	0.83	0.77	35.3	YES	NO	bb	bd	1.026
16	Total-pentadoxins	31.69	2.340e2	1.726e2	1.499	1.36	1.55	3.5	NO	NO	bb	bb	0.070
17	12378-PeCDD	31.43	5.601e5	3.501e5	1.129	1.60	1.55	4006.8	YES	NO	bb	bb	206.977
18	Total-pentadoxins	30.75	7.378e2	5.390e2	1.499	1.37	1.55	6.1	YES	NO	bb	bb	0.219
19	123789-HxCDD	36.42	4.168e5	3.376e5	0.869	1.23	1.24	1797.5	YES	NO	bd	bd	212.078
20	123678-HxCDD	36.03	4.477e5	3.699e5	0.944	1.21	1.24	1890.2	YES	NO	db	db	199.765
21	123478-HxCDD	35.92	3.879e5	3.173e5	0.917	1.22	1.24	2002.8	YES	NO	bd	bd	199.625
22	Total-hexadoxins	36.83	2.989e3	2.207e3	0.958	1.35	1.24	12.4	YES	NO	dd	dd	1.324
23	1234678-HpCDD	40.16	3.368e5	3.001e5	1.237	1.12	1.05	1970.7	YES	NO	bd	bb	205.763
24	OCDD	44.87	4.646e5	4.933e5	1.212	0.94	0.89	1508.3	YES	NO	bd	bd	365.637

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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	21.48	1.293e6					76.2	YES		dd		
2	FUNCTION1 PFK	21.11	1.358e7					87.8	YES		bd		
3	FUNCTION1 PFK	26.08	2.442e3					0.4	NO		bb		
4	FUNCTION1 PFK	25.62	1.474e4					1.1	NO		bb		
5	FUNCTION1 PFK	25.28	2.365e4					1.3	NO		bb		
6	FUNCTION1 PFK	24.91	3.652e4					1.6	NO		bb		
7	FUNCTION1 PFK	24.29	6.967e3					0.7	NO		bb		
8	FUNCTION1 PFK	24.23	7.464e3					0.8	NO		bb		
9	FUNCTION1 PFK	23.97	4.699e3					0.6	NO		db		
10	FUNCTION1 PFK	23.92	1.139e4					0.9	NO		bd		
11	FUNCTION1 PFK	23.60	4.250e5					7.7	YES		db		
12	FUNCTION1 PFK	23.01	4.434e6					26.9	YES		dd		
13	FUNCTION1 PFK	22.86	1.525e6					31.5	YES		dd		
14	FUNCTION1 PFK	22.77	1.723e6					34.2	YES		dd		
15	FUNCTION1 PFK	22.62	2.165e6					38.9	YES		dd		
16	FUNCTION1 PFK	22.54	1.184e6					42.1	YES		dd		
17	FUNCTION1 PFK	21.65	2.094e7					71.0	YES		dd		
18	FUNCTION1 PFK	21.54	2.513e6					74.7	YES		dd		
19	FUNCTION1 PFK	27.82	1.805e4					1.3	NO		bb		
20	FUNCTION1 PFK	27.14	9.268e3					0.8	NO		bb		
21	FUNCTION1 PFK	27.06	2.914e4					1.4	NO		bb		
22	FUNCTION1 PFK	26.68	2.735e3					0.5	NO		bb		
23	FUNCTION1 PFK	26.33	2.990e3					0.5	NO		bb		
24	FUNCTION1 PFK	26.27	2.645e4					1.6	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.13	4.974e3					0.9	NO		bb		0.000
2	FUNCTION2 PFK	29.00	4.309e3					1.0	NO		bb		0.000
3	FUNCTION2 PFK	28.91	1.270e3					0.5	NO		bb		0.000
4	FUNCTION2 PFK	28.81	4.995e3					1.1	NO		bb		0.000
5	FUNCTION2 PFK	28.64	9.241e3					1.1	NO		bb		0.000
6	FUNCTION2 PFK	28.37	5.356e3					1.0	NO		db		0.000
7	FUNCTION2 PFK	28.28	1.137e4					1.2	NO		dd		0.000
8	FUNCTION2 PFK	28.24	1.338e4					2.2	NO		bd		0.000
9	FUNCTION2 PFK	28.18	1.322e3					0.5	NO		bb		0.000
10	FUNCTION2 PFK	30.88	7.951e3					1.0	NO		bb		0.000
11	FUNCTION2 PFK	30.80	1.003e3					0.4	NO		bb		0.000
12	FUNCTION2 PFK	30.76	9.470e2					0.4	NO		bb		0.000
13	FUNCTION2 PFK	30.71	1.267e4					1.3	NO		bb		0.000
14	FUNCTION2 PFK	30.57	8.163e3					1.0	NO		bb		0.000
15	FUNCTION2 PFK	30.51	4.508e3					0.9	NO		bb		0.000
16	FUNCTION2 PFK	30.21	1.057e3					0.4	NO		bb		0.000
17	FUNCTION2 PFK	30.17	9.604e3					1.4	NO		db		0.000
18	FUNCTION2 PFK	30.10	1.975e4					2.3	NO		dd		0.000
19	FUNCTION2 PFK	30.02	7.020e3					1.2	NO		bd		0.000
20	FUNCTION2 PFK	29.90	1.056e4					1.6	NO		bb		0.000
21	FUNCTION2 PFK	29.79	7.948e3					1.2	NO		bb		0.000
22	FUNCTION2 PFK	29.54	9.081e3					1.4	NO		bb		0.000
23	FUNCTION2 PFK	29.33	1.118e4					1.6	NO		bb		0.000
24	FUNCTION2 PFK	29.28	1.937e3					0.5	NO		bb		0.000
25	FUNCTION2 PFK	29.22	1.181e3					0.5	NO		bb		0.000
26	FUNCTION2 PFK	32.69	2.118e3					0.7	NO		db		0.000
27	FUNCTION2 PFK	32.64	1.494e4					2.2	NO		bd		0.000
28	FUNCTION2 PFK	32.45	1.580e4					1.6	NO		bb		0.000
29	FUNCTION2 PFK	32.18	8.112e3					1.3	NO		bb		0.000
30	FUNCTION2 PFK	32.06	4.522e3					0.8	NO		bb		0.000
31	FUNCTION2 PFK	31.97	1.260e4					1.7	NO		bb		0.000
32	FUNCTION2 PFK	31.84	5.517e3					1.0	NO		bb		0.000
33	FUNCTION2 PFK	31.77	3.794e3					0.4	NO		bb		0.000
34	FUNCTION2 PFK	31.73	1.524e3					0.6	NO		bb		0.000
35	FUNCTION2 PFK	31.68	1.158e3					0.5	NO		bb		0.000
36	FUNCTION2 PFK	31.38	1.778e4					2.0	NO		db		0.000
37	FUNCTION2 PFK	31.33	1.717e4					1.9	NO		dd		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
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ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	31.28	4.103e4					2.2	NO		bd		0.000
39	FUNCTION2 PFK	30.98	1.187e4					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	32.91	4.053e3					0.7	NO		bb		0.000
2	FUNCTION3 PFK	35.38	5.090e3					0.8	NO		bb		0.000
3	FUNCTION3 PFK	35.23	1.199e4					1.1	NO		bb		0.000
4	FUNCTION3 PFK	34.71	7.326e3					1.0	NO		bb		0.000
5	FUNCTION3 PFK	34.61	1.689e4					1.2	NO		bb		0.000
6	FUNCTION3 PFK	34.41	5.681e3					1.0	NO		bb		0.000
7	FUNCTION3 PFK	34.12	6.443e3					1.0	NO		db		0.000
8	FUNCTION3 PFK	34.09	2.562e4					1.9	NO		dd		0.000
9	FUNCTION3 PFK	34.02	1.063e4					1.2	NO		dd		0.000
10	FUNCTION3 PFK	33.97	2.209e4					1.9	NO		dd		0.000
11	FUNCTION3 PFK	33.89	2.941e4					1.9	NO		bd		0.000
12	FUNCTION3 PFK	33.63	5.988e3					0.7	NO		bb		0.000
13	FUNCTION3 PFK	33.53	4.885e3					0.8	NO		bb		0.000
14	FUNCTION3 PFK	33.33	5.270e3					0.7	NO		bb		0.000
15	FUNCTION3 PFK	33.28	1.743e3					0.5	NO		bb		0.000
16	FUNCTION3 PFK	33.18	1.605e4					1.3	NO		db		0.000
17	FUNCTION3 PFK	33.10	2.975e3					0.5	NO		bd		0.000
18	FUNCTION3 PFK	37.35	3.209e3					0.6	NO		bb		0.000
19	FUNCTION3 PFK	37.31	1.428e3					0.4	NO		bb		0.000
20	FUNCTION3 PFK	37.20	5.113e3					0.8	NO		bb		0.000
21	FUNCTION3 PFK	37.08	1.804e4					1.3	NO		bb		0.000
22	FUNCTION3 PFK	36.89	1.280e4					1.4	NO		bb		0.000
23	FUNCTION3 PFK	36.51	1.877e4					1.7	NO		bb		0.000
24	FUNCTION3 PFK	36.44	7.762e3					1.0	NO		db		0.000
25	FUNCTION3 PFK	36.40	5.228e3					0.8	NO		bd		0.000
26	FUNCTION3 PFK	36.07	1.268e4					1.4	NO		bb		0.000
27	FUNCTION3 PFK	35.92	1.797e4					1.7	NO		bb		0.000
28	FUNCTION3 PFK	35.77	1.441e3					0.4	NO		bb		0.000
29	FUNCTION3 PFK	35.63	4.696e3					0.8	NO		bb		0.000
30	FUNCTION3 PFK	35.53	2.121e4					1.3	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
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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	42.35	3.779e4					6.2	YES		bb		
2	FUNCTION4 PFK	37.96	9.499e3					2.3	NO		bb		
3	FUNCTION4 PFK	42.62	1.725e5					11.9	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.70	8.179e3					0.9	NO		bb		
2	FUNCTION5 PFK	45.26	5.630e3					1.1	NO		bb		
3	FUNCTION5 PFK	44.90	3.923e3					0.8	NO		bb		
4	FUNCTION5 PFK	44.83	8.287e3					1.9	NO		bb		
5	FUNCTION5 PFK	44.40	2.700e3					0.9	NO		bb		
6	FUNCTION5 PFK	44.17	6.459e3					1.8	NO		db		
7	FUNCTION5 PFK	44.14	5.739e3					1.4	NO		dd		
8	FUNCTION5 PFK	44.10	5.372e3					1.6	NO		bd		
9	FUNCTION5 PFK	43.82	5.349e3					1.3	NO		bb		
10	FUNCTION5 PFK	43.71	2.343e3					0.8	NO		bb		
11	FUNCTION5 PFK	43.55	3.171e3					0.9	NO		bb		
12	FUNCTION5 PFK	43.46	7.058e2					0.5	NO		bb		
13	FUNCTION5 PFK	43.24	3.820e3					0.9	NO		bb		
14	FUNCTION5 PFK	43.15	5.105e3					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...	26.30	8.508e1					2.8	NO		bb		0.000
2	FUNCTION1 HXCD...	25.70	8.745e1					1.7	NO		bb		0.000
3	FUNCTION1 HXCD...	24.91	1.137e2					3.8	YES		db		0.000
4	FUNCTION1 HXCD...	24.86	1.029e2					3.2	YES		bd		0.000
5	FUNCTION1 HXCD...	21.38	1.533e2					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													

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.71	8.721e1					2.3	NO		bb		0.000
2	FUNCTION2 HPCD...	31.17	7.532e1					2.6	NO		bb		0.000
3	FUNCTION2 HPCD...	31.03	8.787e2					23.2	YES		bb		0.000
4	FUNCTION2 HPCD...	30.75	1.021e2					3.2	YES		bb		0.000
5	FUNCTION2 HPCD...	29.90	7.698e1					2.0	NO		db		0.000
6	FUNCTION2 HPCD...	29.83	8.399e1					3.0	YES		bd		0.000
7	FUNCTION2 HPCD...	28.22	8.890e1					2.9	NO		bb		0.000

ETHERS4

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

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.36	7.011e1					1.4	NO		bb		0.000
2	FUNCTION4 NCDPE	40.61	1.191e2					2.5	NO		bb		0.000
3	FUNCTION4 NCDPE	38.68	1.066e2					2.5	NO		bb		0.000
4	FUNCTION4 NCDPE	38.48	9.439e1					4.8	YES		bb		0.000

ETHERS6

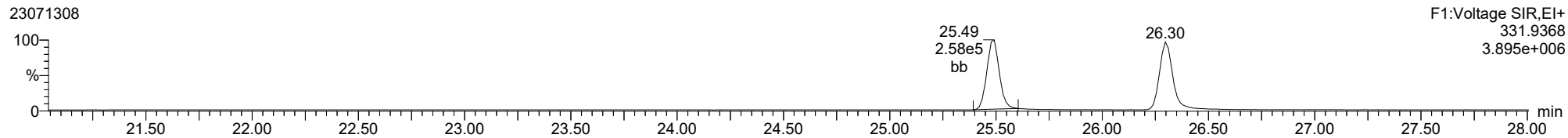
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.13	7.271e1					1.8	NO		bb		0.000
2	FUNCTION5 DCDPE	43.28	1.428e2					6.5	YES		bb		0.000

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

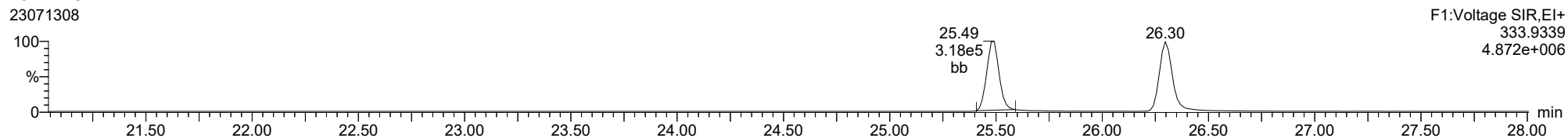
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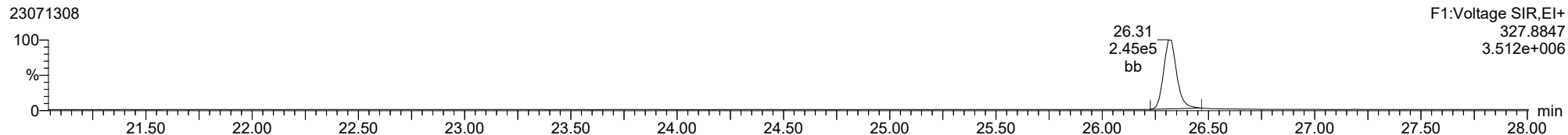
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37CL-2378-TCDD

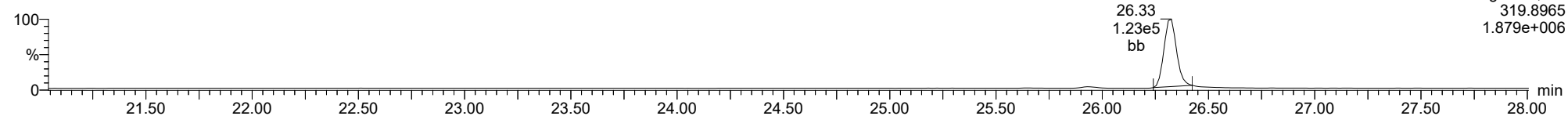
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2378-TCDD

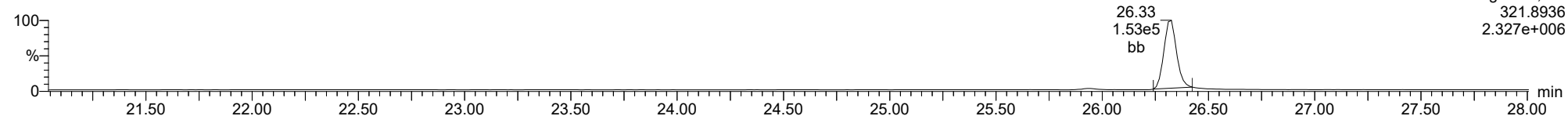
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F1:Voltage SIR,EI+
319.8965
1.879e+006

2378-TCDD

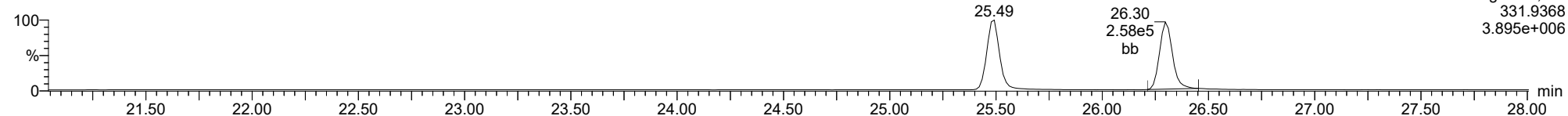
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F1:Voltage SIR,EI+
321.8936
2.327e+006

13C-2378-TCDD

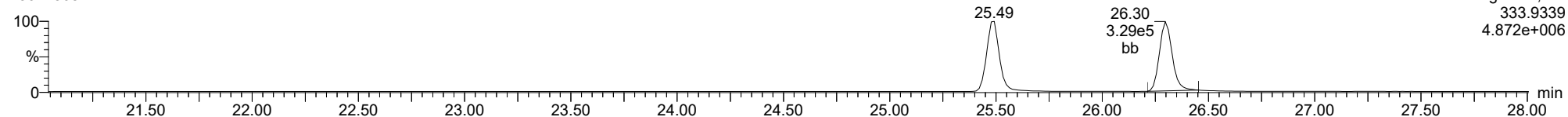
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F1:Voltage SIR,EI+
331.9368
3.895e+006

13C-2378-TCDD

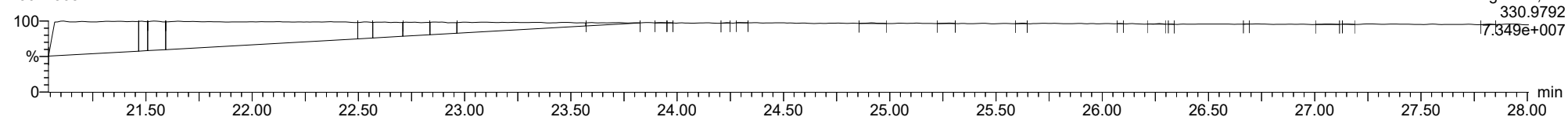
23071308



F1:Voltage SIR,EI+
333.9339
4.872e+006

FUNCTION1 PFK

23071308

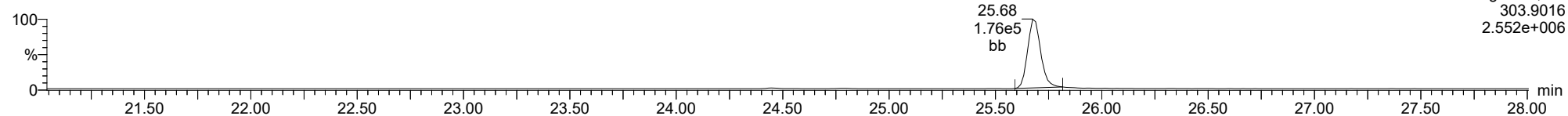


F1:Voltage SIR,EI+
330.9792
7.349e+007

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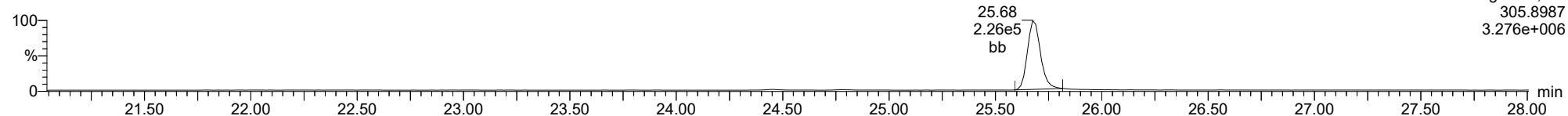
2378-TCDF

23071308



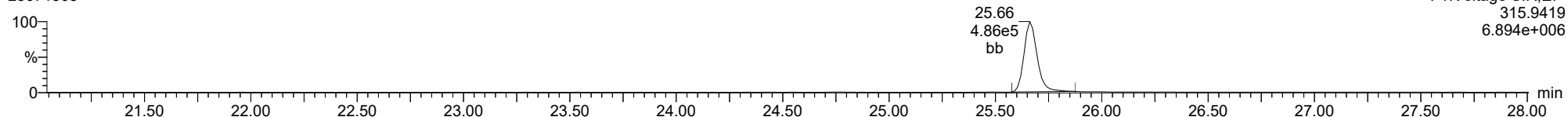
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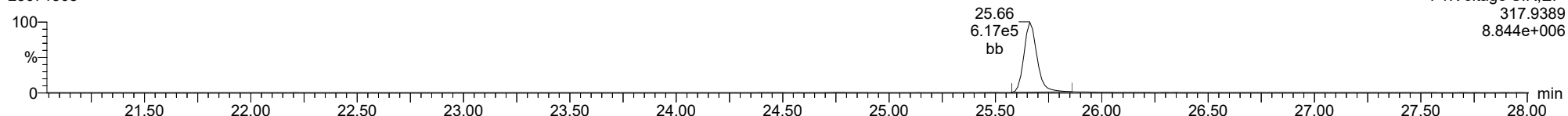
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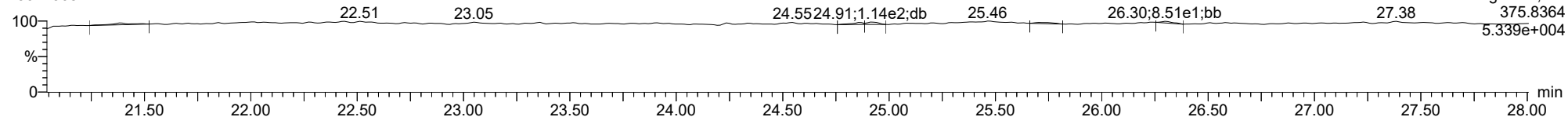
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FUNCTION1 HXCDPE

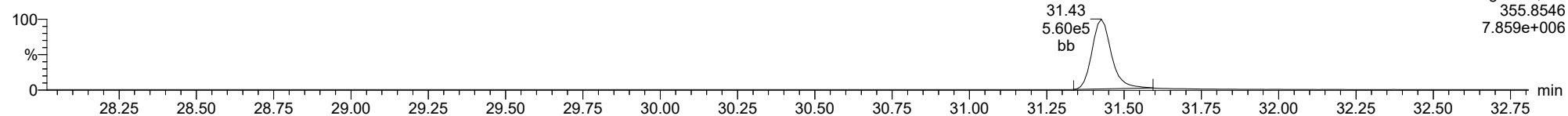
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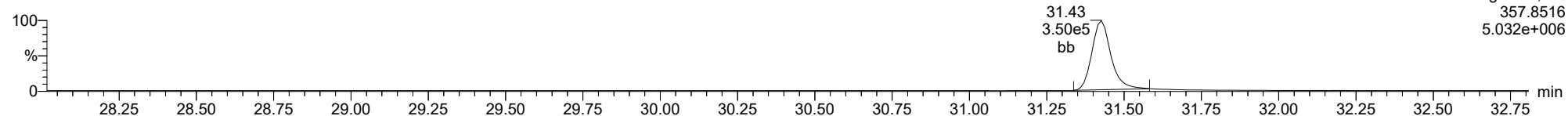
12378-PeCDD

23071308



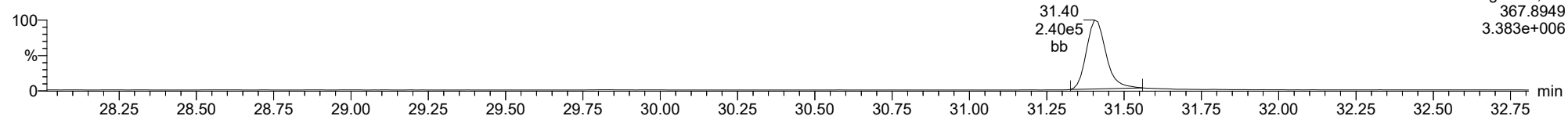
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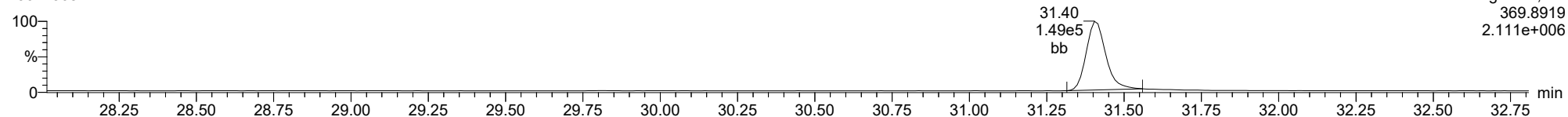
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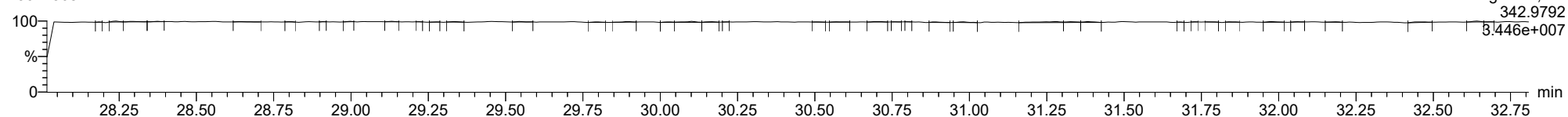
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23071308



FUNCTION2 PFK

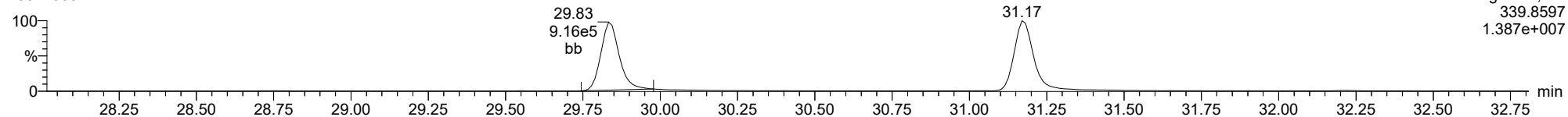
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12378-PeCDF

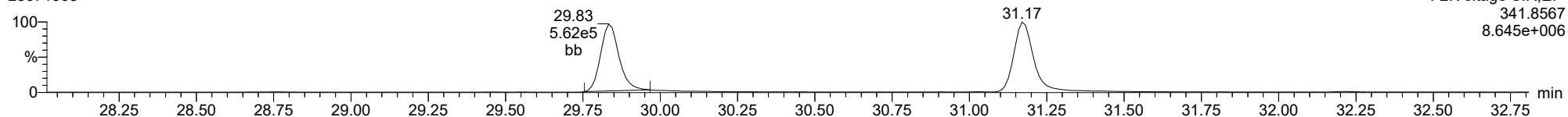
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F2:Voltage SIR,EI+
339.8597
1.387e+007

12378-PeCDF

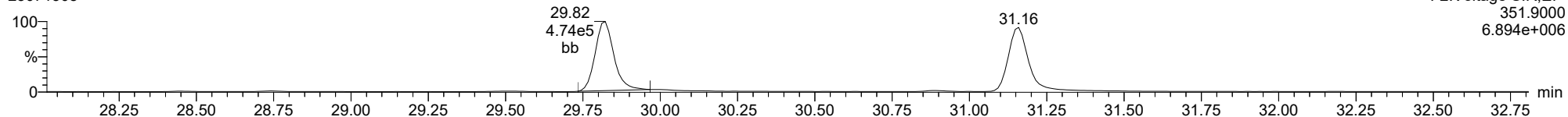
23071308



F2:Voltage SIR,EI+
341.8567
8.645e+006

13C-12378-PeCDF

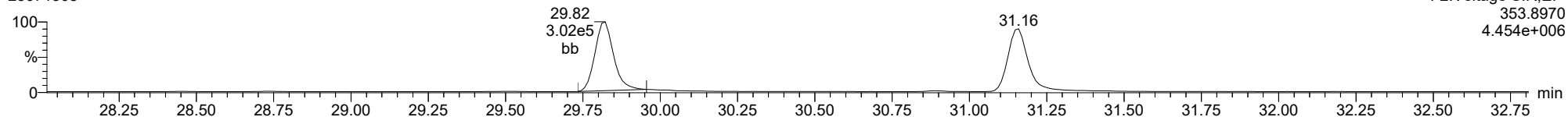
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F2:Voltage SIR,EI+
351.9000
6.894e+006

13C-12378-PeCDF

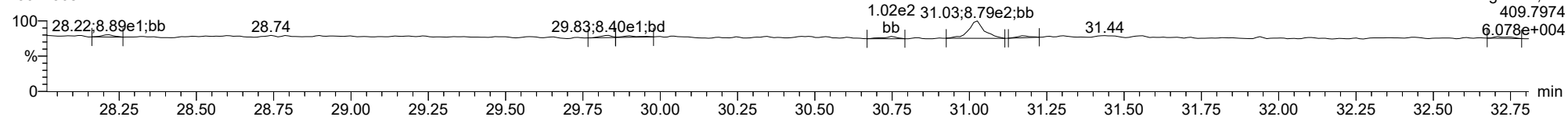
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F2:Voltage SIR,EI+
353.8970
4.454e+006

FUNCTION2 HPCDPE

23071308

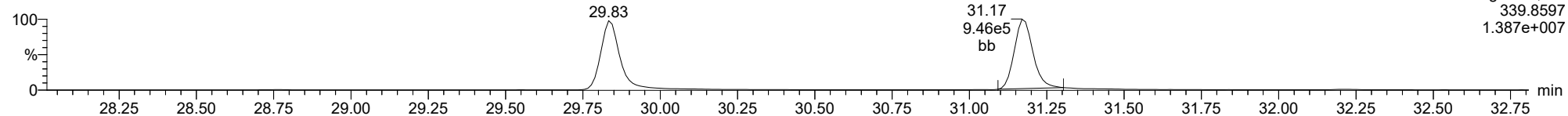


F2:Voltage SIR,EI+
409.7974
6.078e+004

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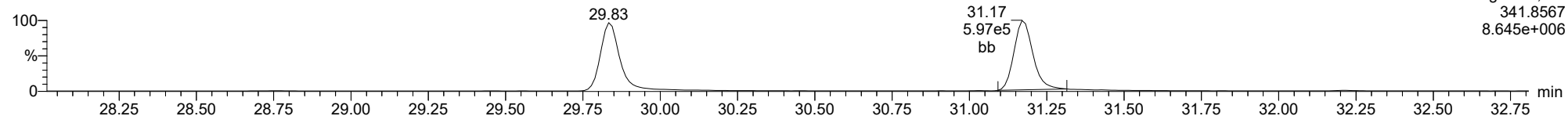
23478-PeCDF

23071308



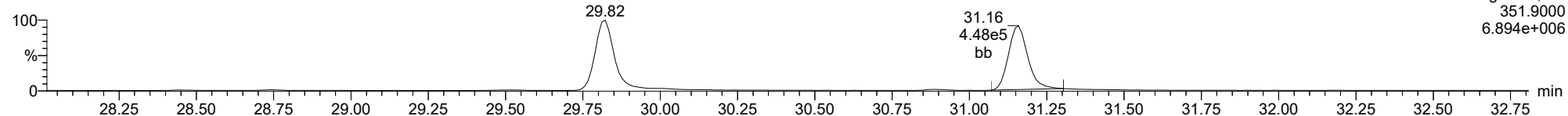
23478-PeCDF

23071308



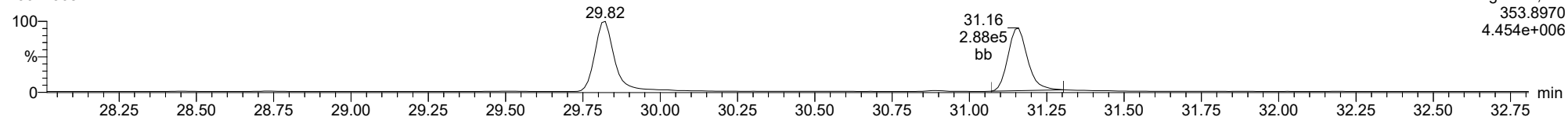
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23071308



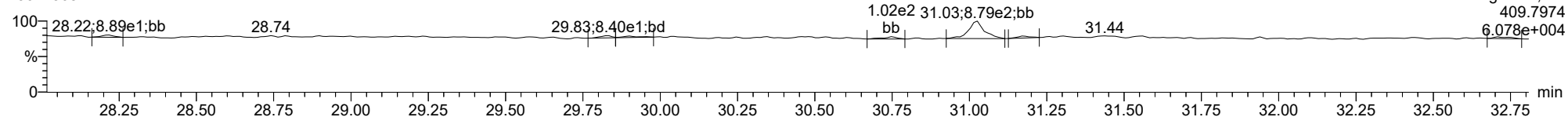
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23071308



FUNCTION2 HPCDPE

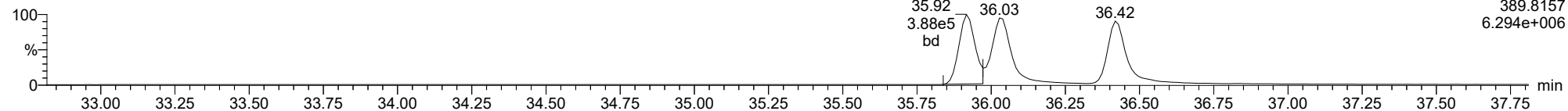
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123478-HxCDD

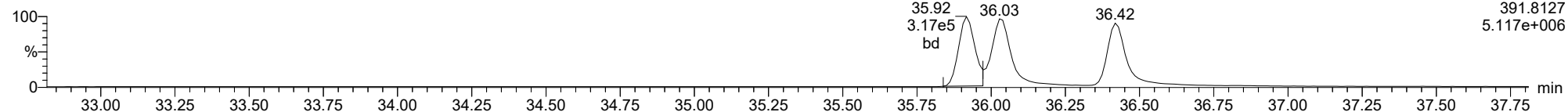
23071308



F3:Voltage SIR,El+
389.8157
6.294e+006

123478-HxCDD

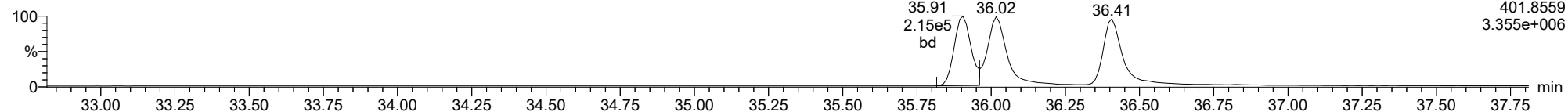
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F3:Voltage SIR,El+
391.8127
5.117e+006

13C-123478-HxCDD

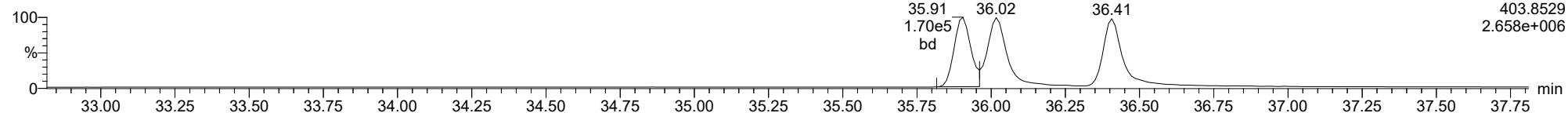
23071308



F3:Voltage SIR,El+
401.8559
3.355e+006

13C-123478-HxCDD

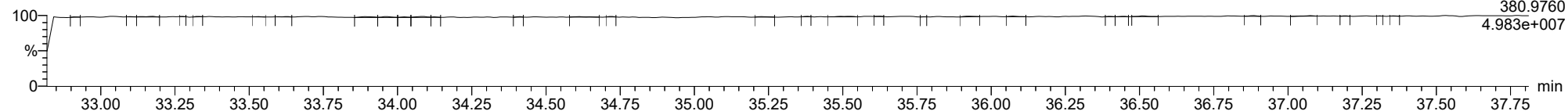
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F3:Voltage SIR,El+
403.8529
2.658e+006

FUNCTION3 PFK

23071308

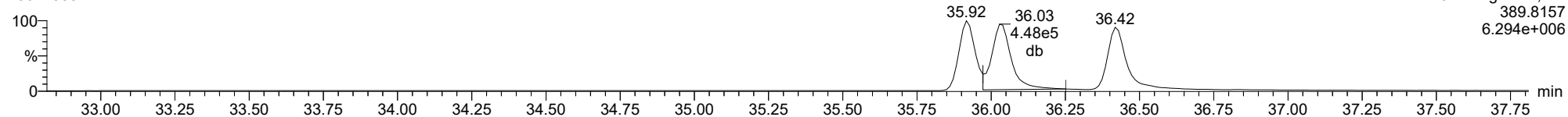


F3:Voltage SIR,El+
380.9760
4.983e+007

ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

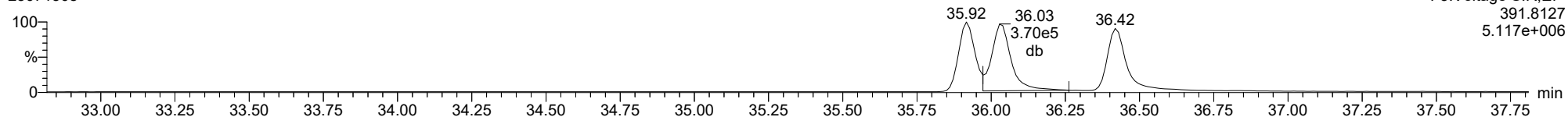
123678-HxCDD

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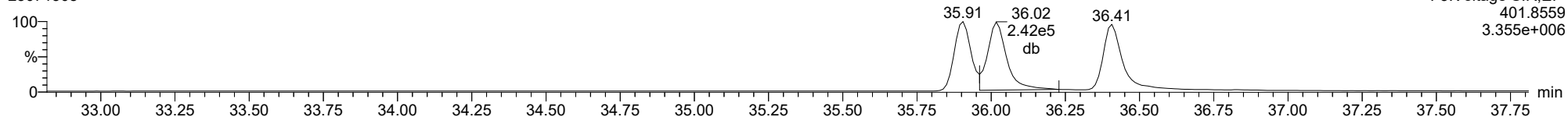
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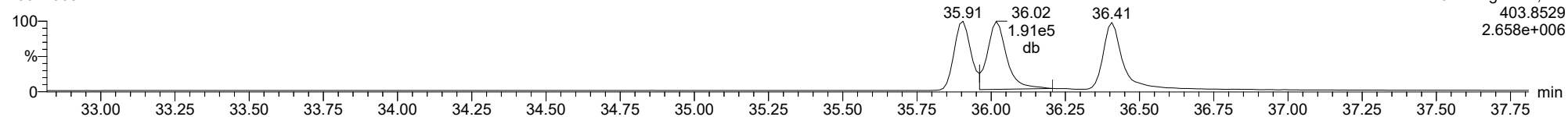
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13C-123678-HxCDD

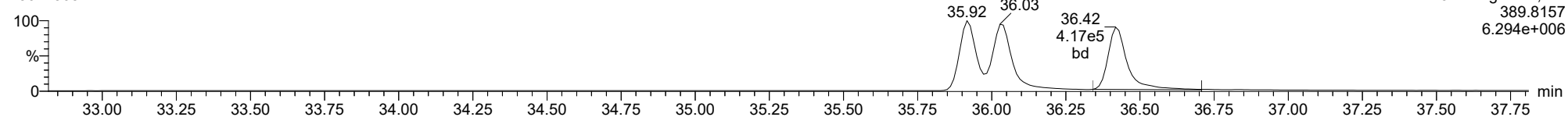
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ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

123789-HxCDD

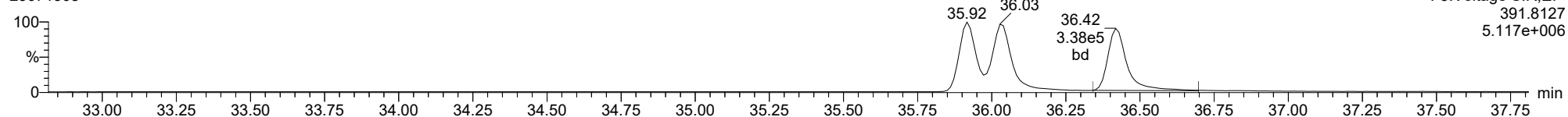
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F3:Voltage SIR,EI+
389.8157
6.294e+006

123789-HxCDD

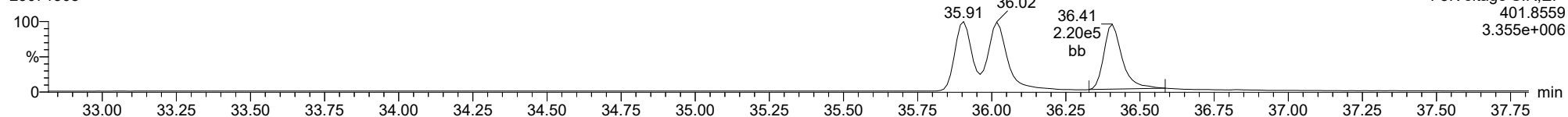
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F3:Voltage SIR,EI+
391.8127
5.117e+006

13C-123789-HxCDD

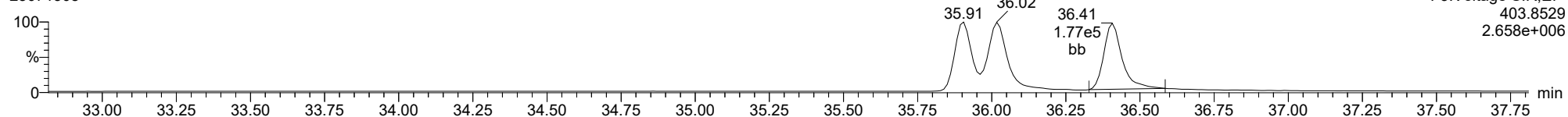
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F3:Voltage SIR,EI+
401.8559
3.355e+006

13C-123789-HxCDD

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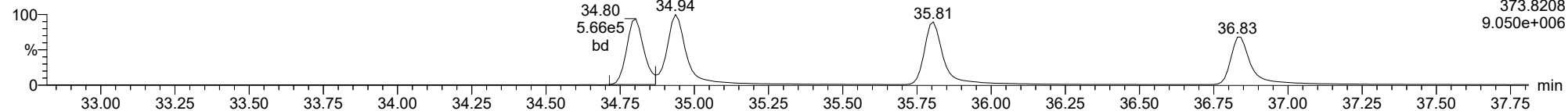


F3:Voltage SIR,EI+
403.8529
2.658e+006

ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

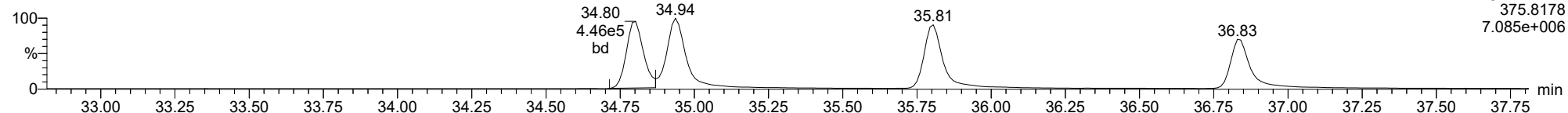
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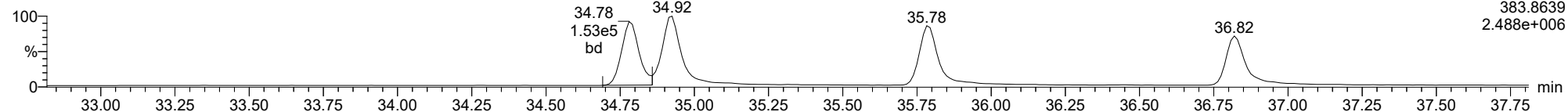
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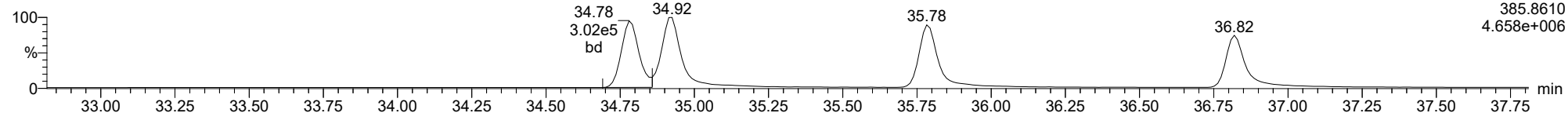
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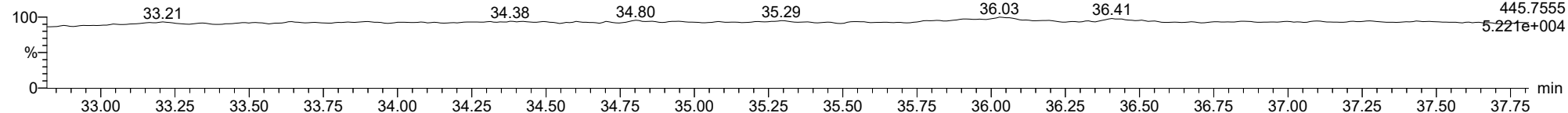
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FUNCTION3 OCDPE

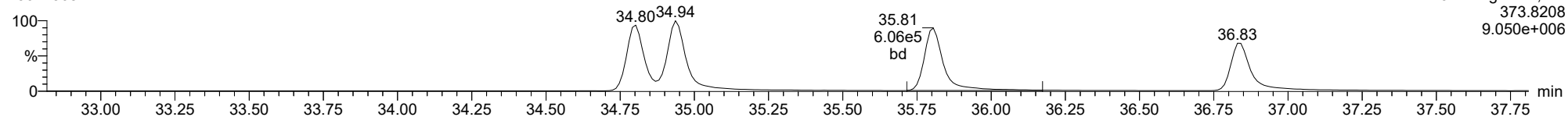
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ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

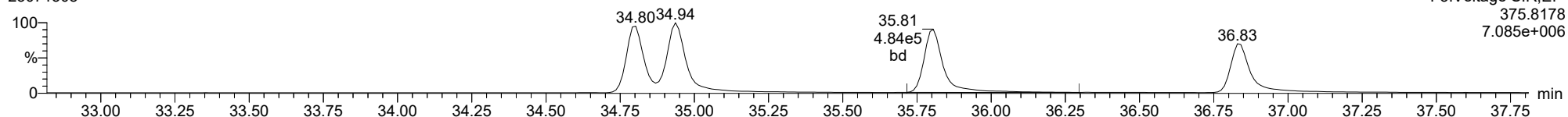
234678-HxCDF

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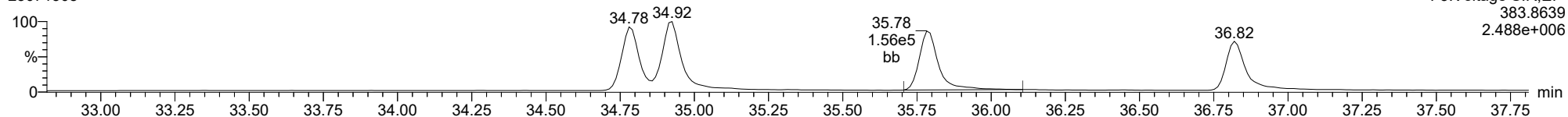
234678-HxCDF

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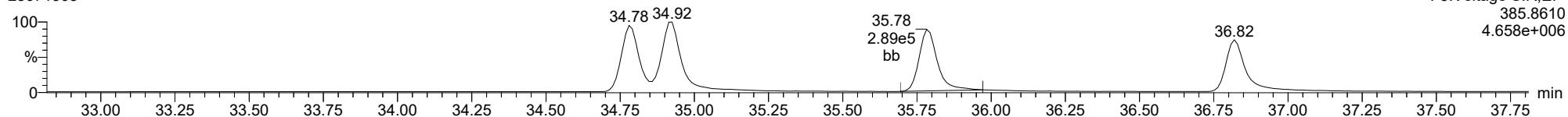
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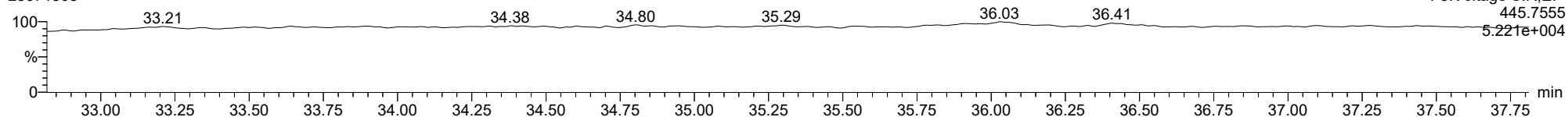
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FUNCTION3 OCDPE

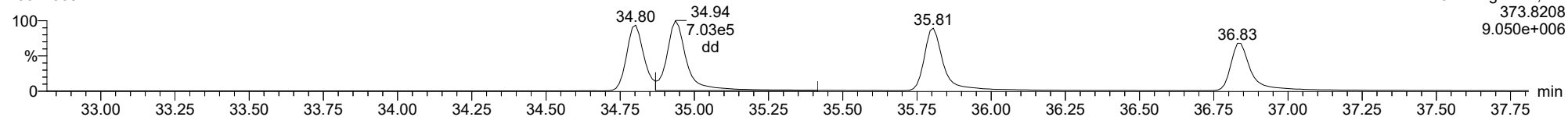
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ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

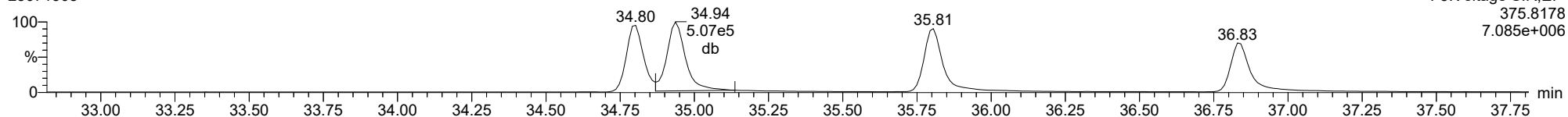
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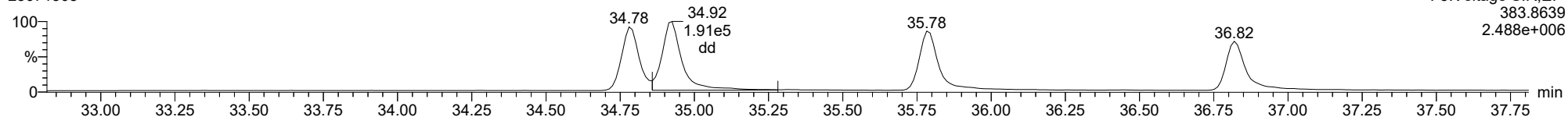
123678-HxCDF

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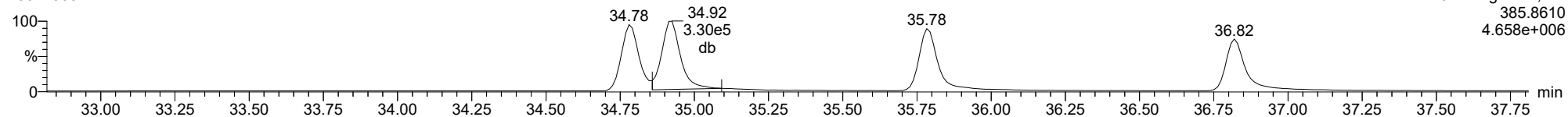
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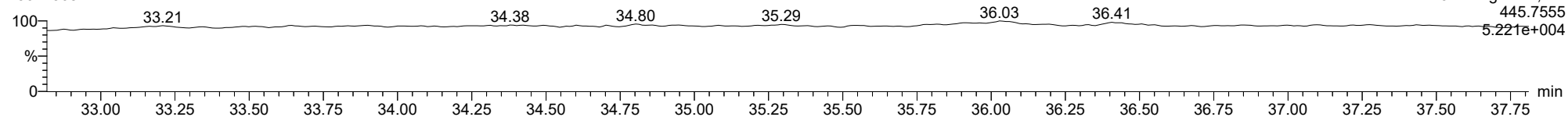
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FUNCTION3 OCDPE

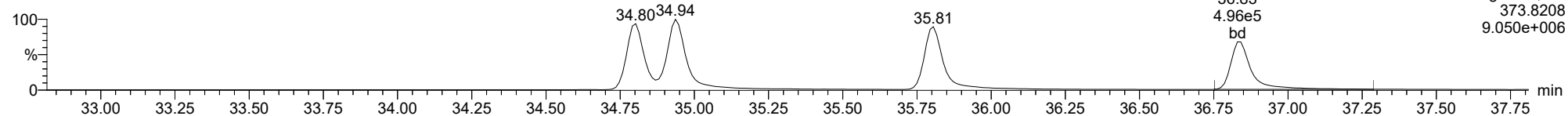
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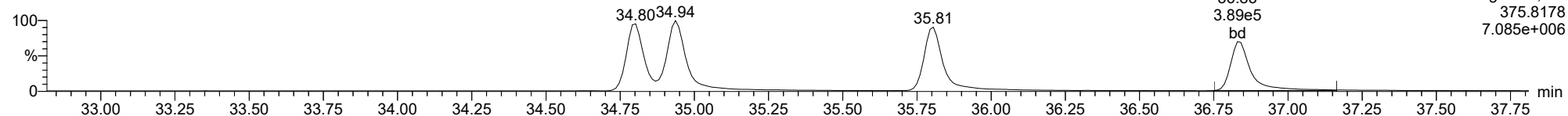
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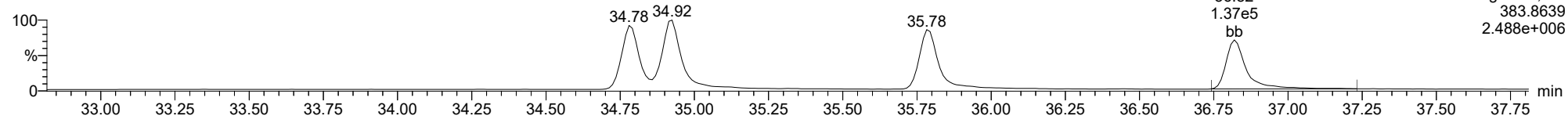
123789-HxCDF

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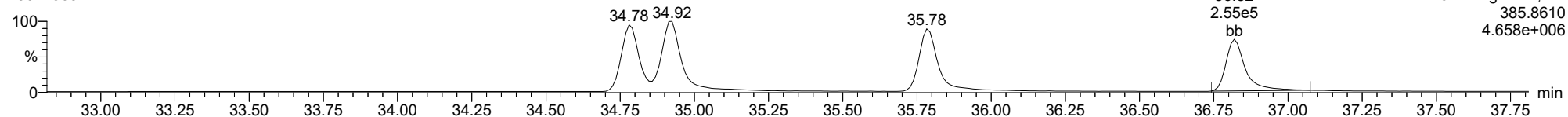
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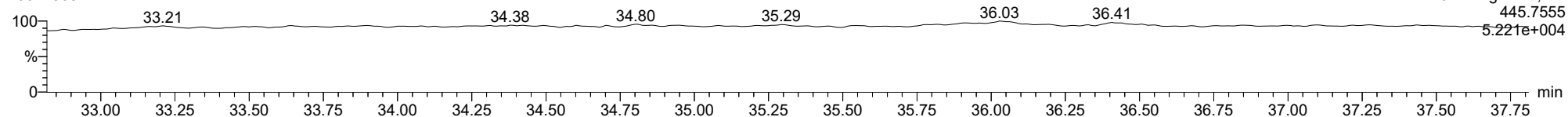
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FUNCTION3 OCDPE

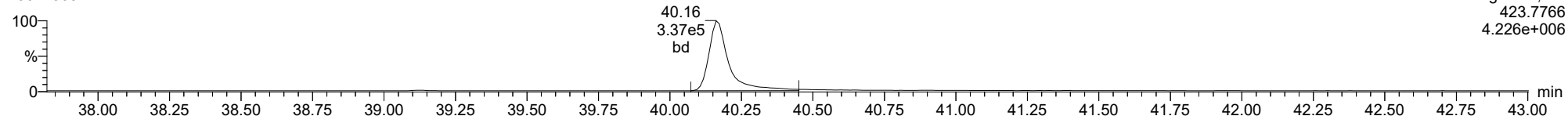
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1234678-HpCDD

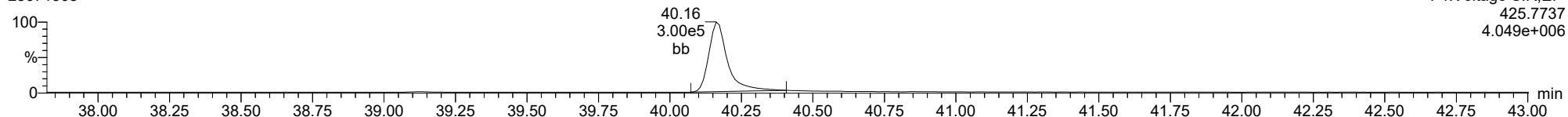
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F4:Voltage SIR,El+
423.7766
4.226e+006

1234678-HpCDD

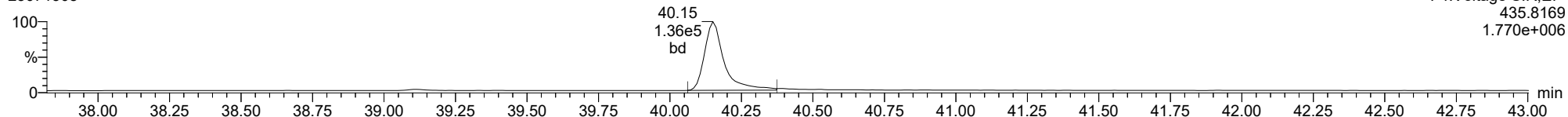
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F4:Voltage SIR,El+
425.7737
4.049e+006

13C-1234678-HpCDD

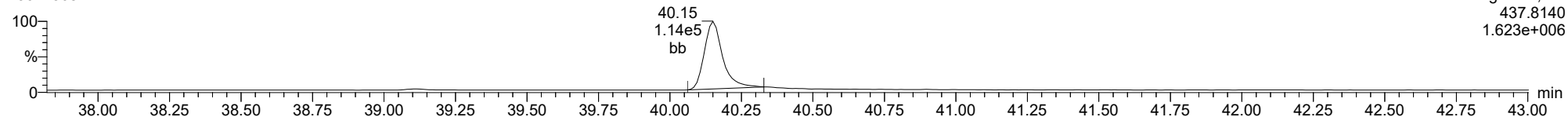
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F4:Voltage SIR,El+
435.8169
1.770e+006

13C-1234678-HpCDD

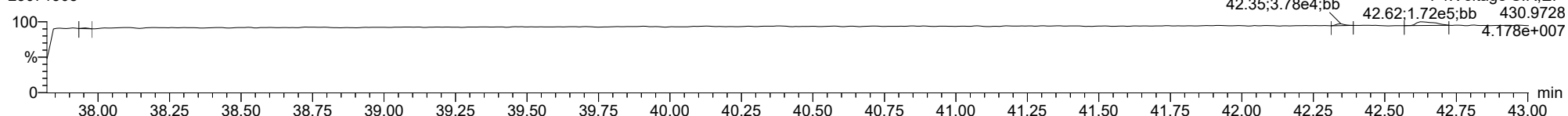
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F4:Voltage SIR,El+
437.8140
1.623e+006

FUNCTION4 PFK

23071308

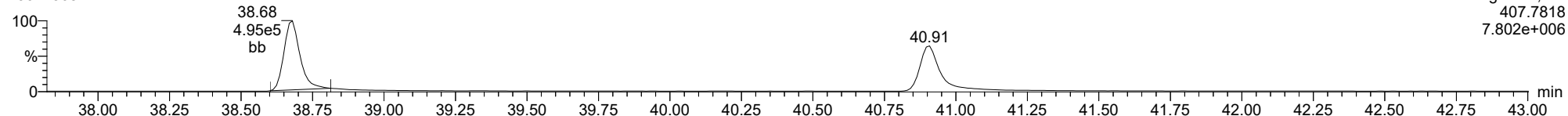


F4:Voltage SIR,El+
430.9728
4.178e+007

ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

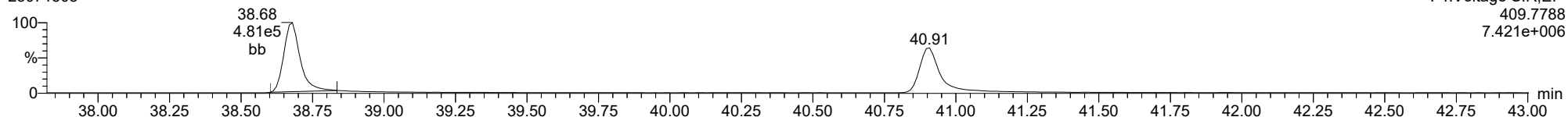
23071308



F4:Voltage SIR,El+
409.7818
7.802e+006

1234678-HpCDF

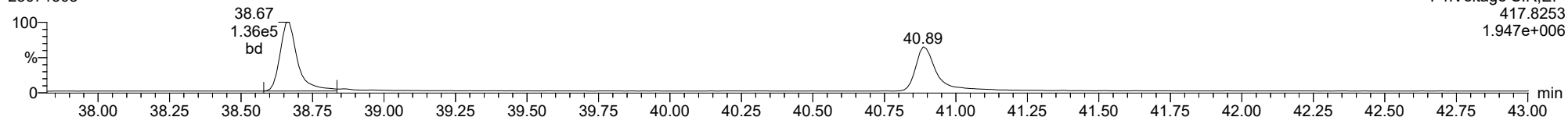
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F4:Voltage SIR,El+
409.7788
7.421e+006

13C-1234678-HpCDF

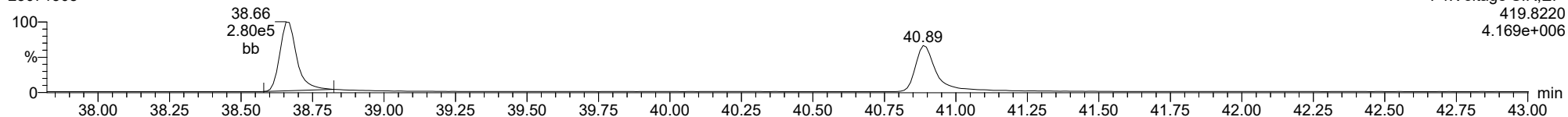
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F4:Voltage SIR,El+
417.8253
1.947e+006

13C-1234678-HpCDF

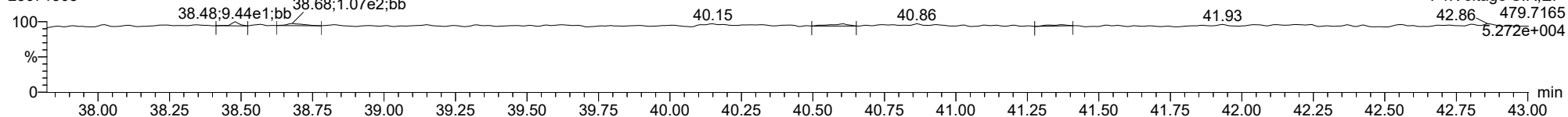
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F4:Voltage SIR,El+
419.8220
4.169e+006

FUNCTION4 NCDPE

23071308

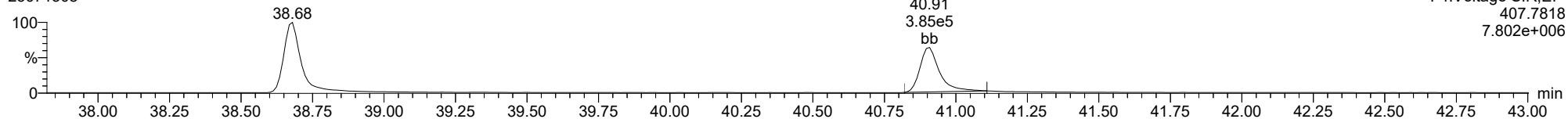


F4:Voltage SIR,El+
42.86 479.7165
5.272e+004

ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

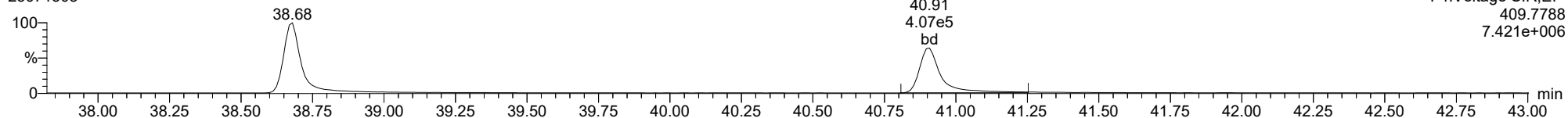
1234789-HpCDF

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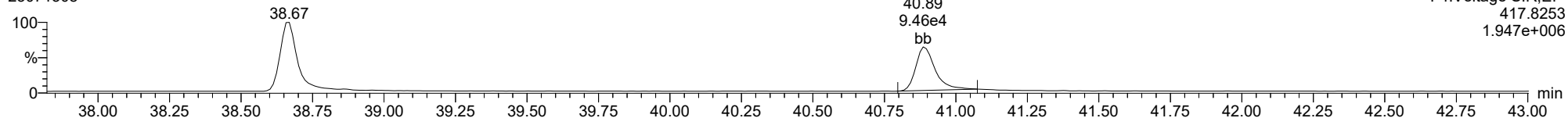
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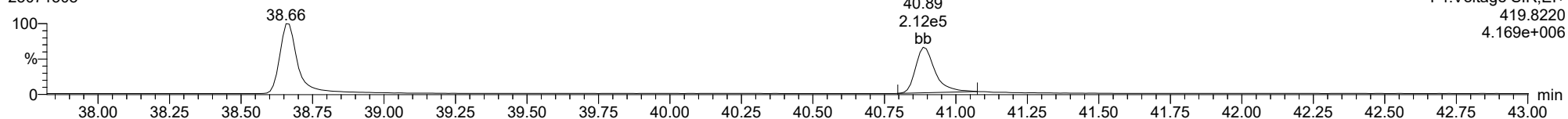
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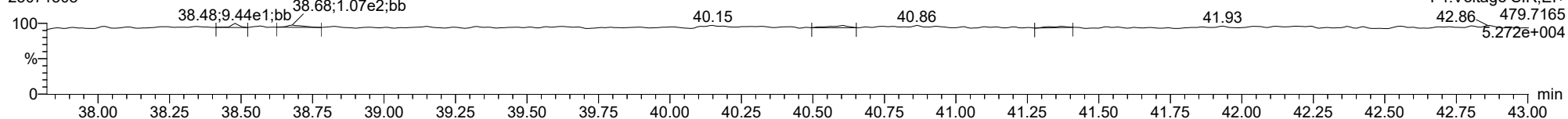
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FUNCTION4 NCDPE

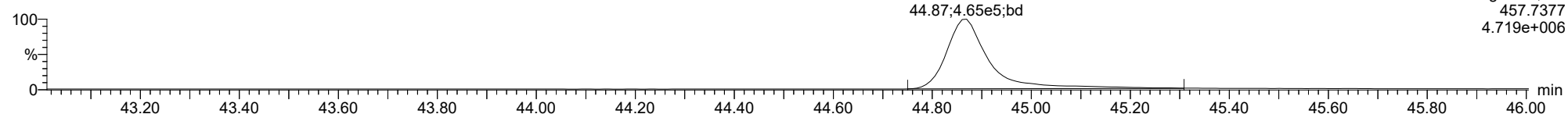
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ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

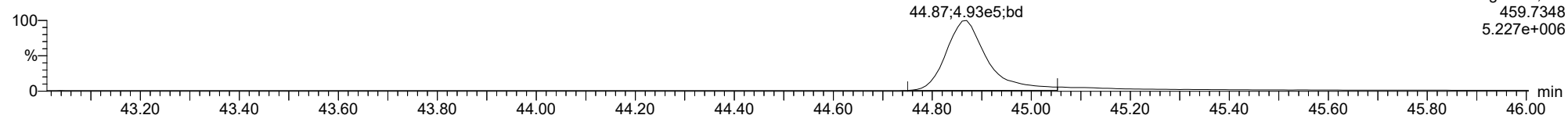
OCDD

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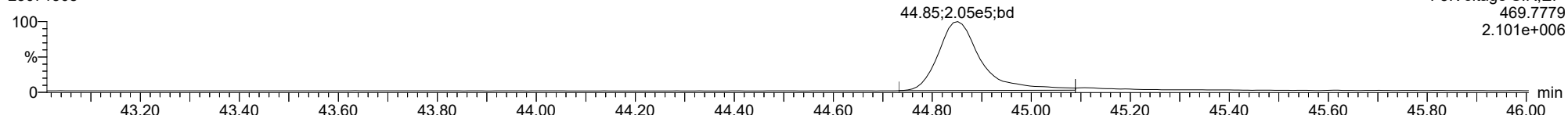
OCDD

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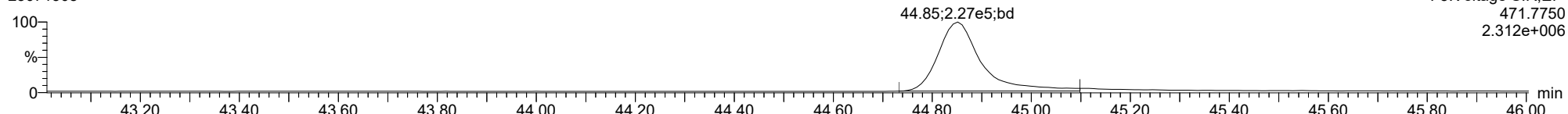
13C-OCDD

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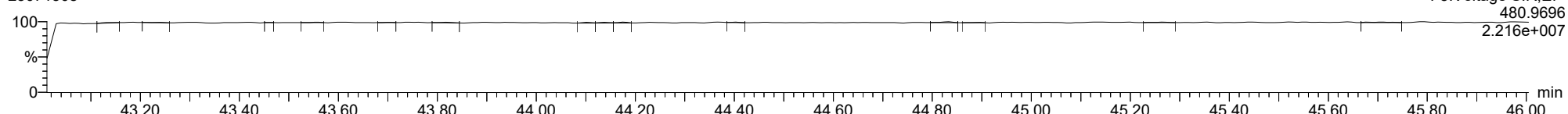
13C-OCDD

23071308



FUNCTION5 PFK

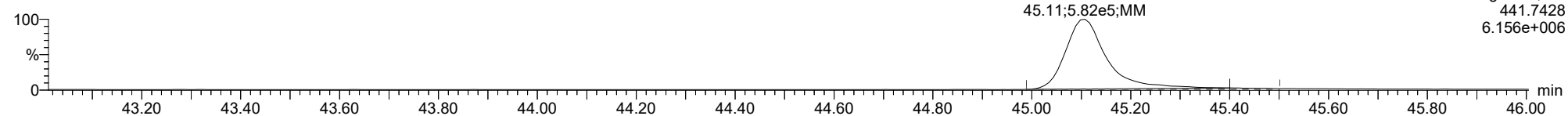
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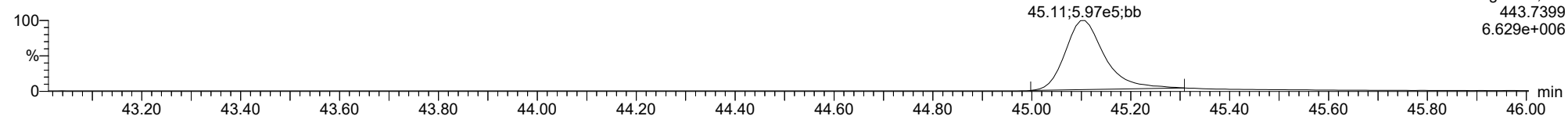
OCDF

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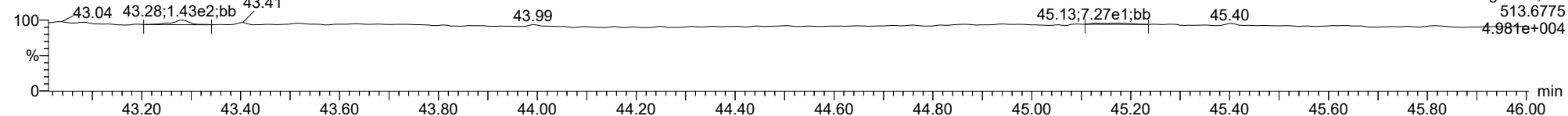
OCDF

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FUNCTION5 DCDPE

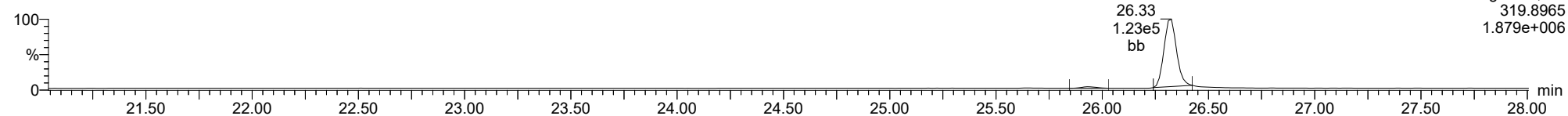
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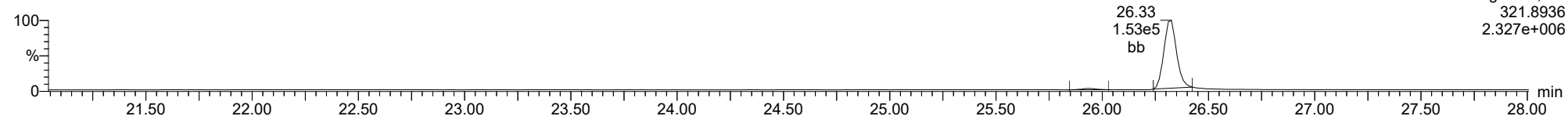
Total-tetradoxins

23071308



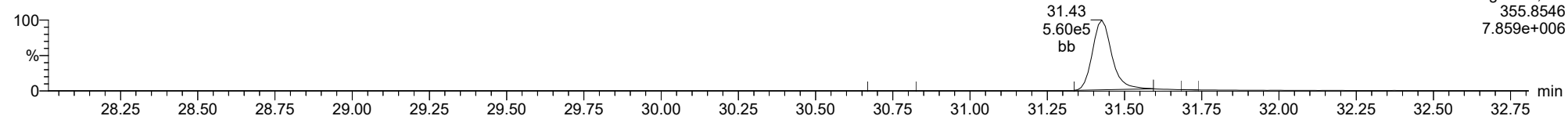
Total-tetradoxins

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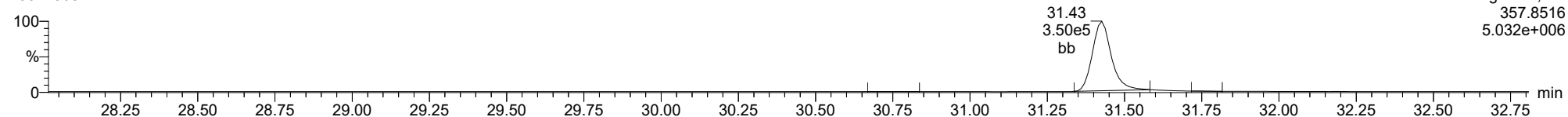
Total-pentadoxins

23071308



Total-pentadoxins

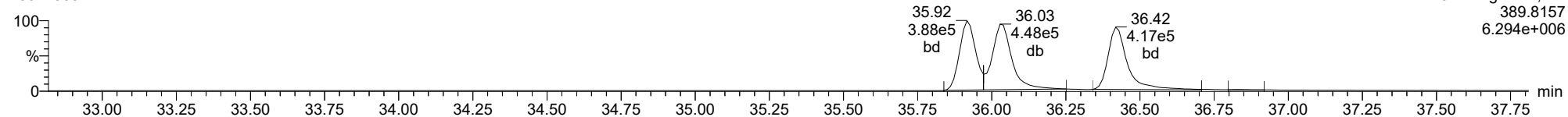
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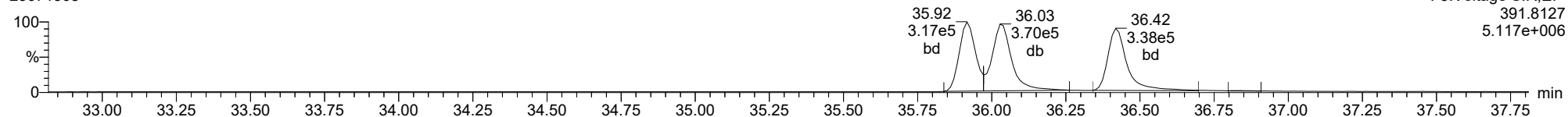
Total-hexadioxins

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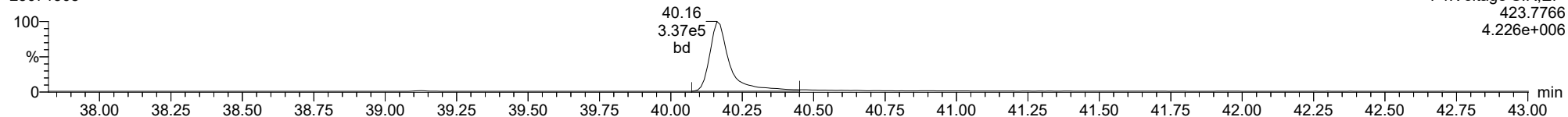
Total-hexadioxins

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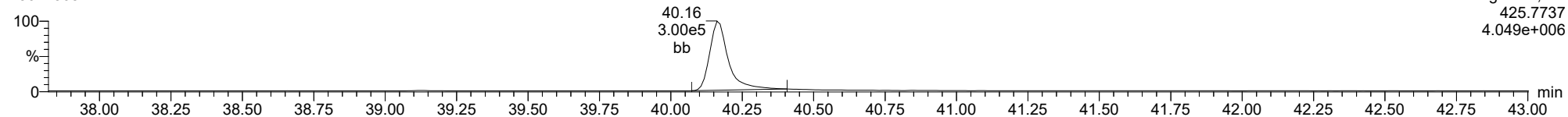
Total-heptadioxins

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Total-heptadioxins

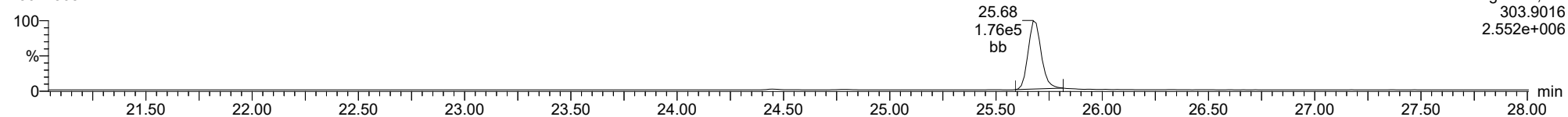
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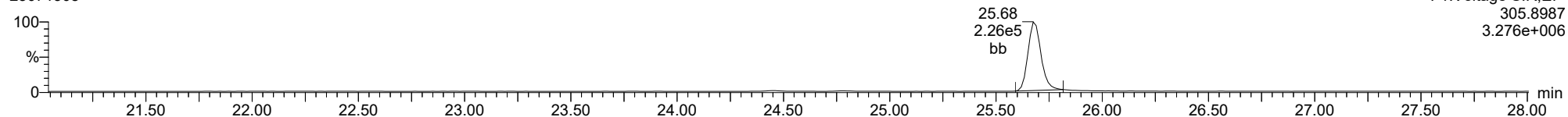
Total-tetrafurans

23071308



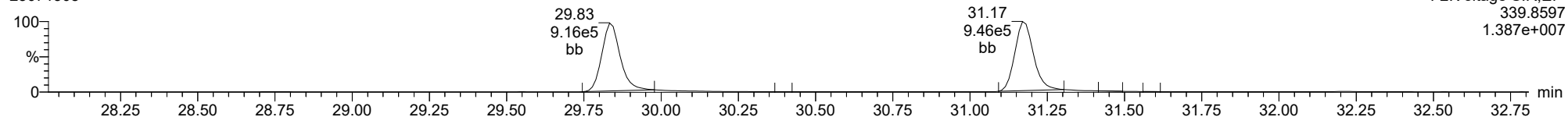
Total-tetrafurans

23071308



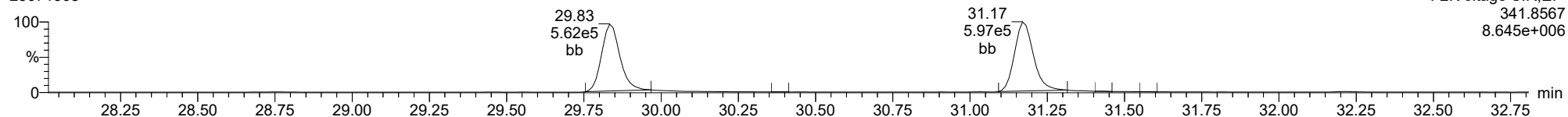
Total-pentafurans

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Total-pentafurans

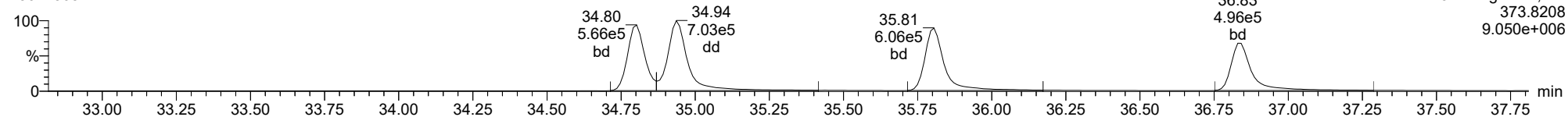
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ID: CS4CA, Name: 23071308, Date: 13-Jul-2023, Time: 16:32:58, Conditions: AUTOSPEC01, User: pk

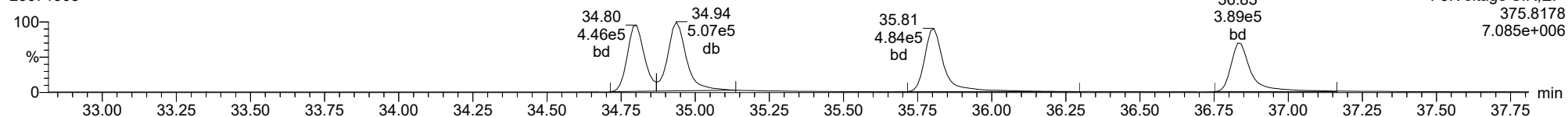
Total-hexafurans

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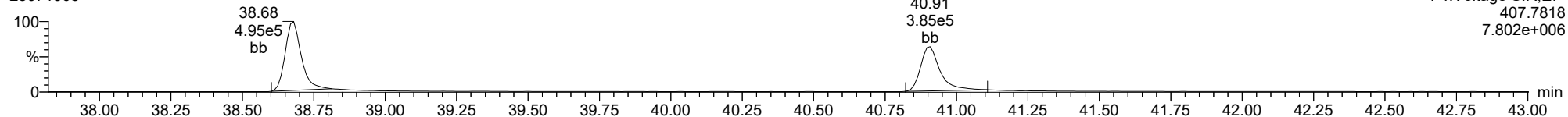
Total-hexafurans

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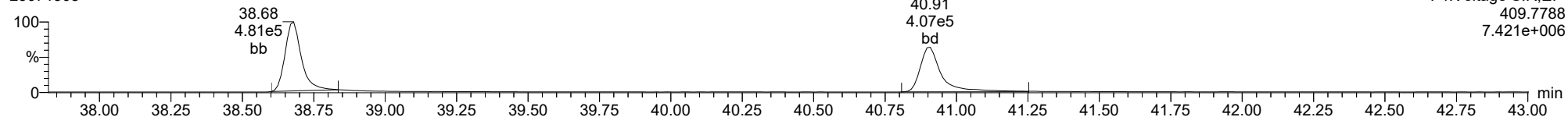
Total-heptafurans

23071308



Total-heptafurans

23071308



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 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:29:23 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
 Calibration: 27 Jul 2023 11:25:35

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, 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	25.676	1.001	8.967e5	1.142e6	0.951	0.785	0.770	1361	1679	1.32e7	1.67e7	9686.2	9918.5	NO	bb	bb	194.874
12378-PeCDF	29.822	1.000	5.259e6	3.260e6	0.963	1.613	1.550	8973	3840	7.91e7	4.94e7	8820.2	12870.0	NO	bb	bb	957.431
23478-PeCDF	31.159	1.000	5.515e6	3.411e6	1.072	1.617	1.550	8973	3840	8.19e7	5.08e7	9122.2	13237.8	NO	bb	bb	983.776
123478-HxCDF	34.791	1.000	3.529e6	2.813e6	1.142	1.255	1.240	2299	6008	5.47e7	4.34e7	23778.3	7229.1	NO	bd	bd	1010.714
234678-HxCDF	35.794	1.000	3.551e6	2.819e6	1.138	1.260	1.240	2299	6008	5.42e7	4.30e7	23588.8	7159.8	NO	bb	bb	994.359
123678-HxCDF	34.925	1.000	4.010e6	3.160e6	1.100	1.269	1.240	2299	6008	5.66e7	4.49e7	24598.5	7474.5	NO	db	db	979.456
123789-HxCDF	36.830	1.001	2.951e6	2.310e6	1.066	1.277	1.240	2299	6008	4.29e7	3.37e7	18663.5	5608.4	NO	bb	bb	1012.671
1234678-HpCDF	38.668	1.000	3.406e6	3.249e6	1.210	1.048	1.050	6916	5711	5.45e7	5.21e7	7883.0	9125.8	NO	bb	bb	1032.656
1234789-HpCDF	40.897	1.000	2.595e6	2.471e6	1.213	1.051	1.050	6916	5711	3.60e7	3.42e7	5208.9	5983.8	NO	bb	bb	1010.101
OCDF	45.098	1.006	4.163e6	4.483e6	1.391	0.929	0.890	3660	1795	5.00e7	5.32e7	13647.3	29638.1	NO	bb	bb	1903.670
2378-TCDD	26.311	1.001	6.927e5	8.781e5	1.197	0.789	0.770	1219	1189	1.07e7	1.33e7	8769.6	11164.9	NO	bb	bb	198.514
12378-PeCDD	31.415	1.001	3.504e6	2.233e6	1.129	1.569	1.550	2390	2213	5.16e7	3.25e7	21591.8	14681.7	NO	bb	bb	996.236
123478-HxCDD	35.905	1.000	2.693e6	2.200e6	0.917	1.224	1.240	4056	1611	4.16e7	3.42e7	10269.8	21238.3	NO	bd	bd	1044.663
123678-HxCDD	36.028	1.001	2.970e6	2.437e6	0.944	1.219	1.240	4056	1611	4.43e7	3.64e7	10918.5	22576.7	NO	db	db	973.194
123789-HxCDD	36.407	1.011	2.670e6	2.192e6	0.869	1.218	1.240	4056	1611	3.96e7	3.30e7	9768.4	20493.7	NO	bb	bb	1018.106
1234678-HpCDD	40.161	1.001	2.222e6	2.108e6	1.237	1.054	1.050	3907	4281	3.13e7	2.92e7	8015.7	6830.0	NO	bb	bb	1025.145
OCDD	44.860	1.000	3.396e6	3.987e6	1.212	0.852	0.890	3198	1526	3.86e7	4.32e7	12054.6	28322.5	NO	bd	bd	1864.637
13C-2378-TCDF	25.647	1.007	4.887e5	6.107e5	1.920	0.800	0.770	1344	1501	6.90e6	8.76e6	5133.5	5839.2	NO	bb	bb	103.726
13C-12378-PeCDF	29.811	1.170	5.775e5	3.465e5	1.455	1.666	1.550	2463	2249	8.14e6	5.12e6	3304.9	2277.6	NO	bb	bb	114.996
13C-23478-PeCDF	31.148	1.223	5.152e5	3.311e5	1.363	1.556	1.550	2463	2249	7.56e6	4.86e6	3067.8	2160.2	NO	bb	bb	112.469
13C-123478-HxCDF	34.780	0.956	1.867e5	3.630e5	1.119	0.514	0.510	1393	2036	2.78e6	5.37e6	1993.8	2635.6	NO	bd	bd	91.396
13C-123678-HxCDF	34.914	0.959	2.191e5	4.467e5	1.343	0.491	0.510	1393	2036	3.09e6	6.00e6	2219.1	2945.9	NO	db	db	92.224
13C-234678-HxCDF	35.783	0.983	1.969e5	3.661e5	1.113	0.538	0.510	1393	2036	2.79e6	5.30e6	2000.7	2601.1	NO	bd	bb	94.126
13C-123789-HxCDF	36.808	1.011	1.668e5	3.203e5	0.959	0.521	0.510	1393	2036	2.32e6	4.50e6	1663.0	2211.1	NO	bb	bb	94.528
13C-1234678-HpCDF	38.657	1.062	1.668e5	3.659e5	1.058	0.456	0.440	2621	2532	2.62e6	5.73e6	998.3	2263.1	NO	bb	bb	93.623
13C-1234789-HpCDF	40.886	1.123	1.298e5	2.837e5	0.809	0.458	0.440	2621	2532	1.75e6	3.80e6	668.6	1501.8	NO	bb	bb	95.145
13C-1234-TCDD	25.478	0.000	2.440e5	3.082e5	1.000	0.792	0.770	1907	1650	3.73e6	4.67e6	1956.7	2828.1	NO	bb	bb	100.000
13C-2378-TCDD	26.283	1.032	2.914e5	3.699e5	1.104	0.788	0.770	1907	1650	4.18e6	5.39e6	2192.3	3265.4	NO	bb	bb	108.459
13C-12378-PeCDD	31.393	1.232	3.243e5	1.855e5	0.770	1.748	1.550	1012	1087	4.35e6	2.64e6	4297.7	2426.8	NO	bb	bb	119.876
13C-123478-HxCDD	35.894	0.986	2.839e5	2.267e5	0.959	1.252	1.240	2064	1330	4.48e6	3.58e6	2171.8	2688.5	NO	bd	bd	99.034
13C-123678-HxCDD	36.006	0.989	3.348e5	2.537e5	1.120	1.320	1.240	2064	1330	4.70e6	3.71e6	2278.2	2788.6	NO	db	db	97.734
13C-1234678-HpCDD	40.139	1.103	1.801e5	1.614e5	0.640	1.115	1.050	1204	1574	2.52e6	2.31e6	2096.7	1466.7	NO	bb	bb	99.204
13C-OCDD	44.842	1.232	3.125e5	3.406e5	0.555	0.918	0.890	1472	1643	3.45e6	3.81e6	2344.0	2317.7	NO	bd	bd	218.778
13C-123789-HxCDD	36.396	0.000	2.982e5	2.394e5	1.000	1.245	1.240	2064	1330	4.46e6	3.59e6	2161.5	2699.2	NO	bb	bb	100.000
37CL-2378-TCDD	26.311	1.033	1.381e6		1.129			1689		2.06e7		12203.5			bb		221.400

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	ln1Area	ln2Area	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					1.201		0.770	1361	1679								
1289-TCDF					0.950		0.770	1361	1679								
13468-PECDF					1.142		1.550	622	903								
12389-PECDF					0.917		1.550	8973	3840								
123468-HXCDF					1.332		1.240	2299	6008								
1368-TCDD					1.148		0.770	1219	1189								
1289-TCDD					0.955		0.770	1219	1189								
12479-PECDD					2.043		1.550	2390	2213								
12389-PECDD					1.326		1.550	2390	2213								
124679-HXCDD					1.104		1.240	4056	1611								
1234679-HPCDD					1.554		1.050	3907	4281								
Total-tetrafurans			9.109e5		1.034			1361		1.34e7						197.716	
Total-penta1			0.000e0					622		0.00e0							
Total-pentafurans			1.081e7		0.984			8973		1.62e8						1948.385	
Total-hexafurans			1.405e7		1.155			2299		2.08e8						3998.816	
Total-heptafurans			6.005e6		1.211			6916		9.06e7						2044.242	
Total-Furans			3.594e7		1.119			1361		5.24e8						10092.829	
Total-tetradoxins			7.080e5		1.100			1219		1.09e7						203.272	
Total-pentadoxins			3.511e6		1.499			2390		5.17e7						997.828	
Total-hexadoxins			8.347e6		0.958			4056		1.26e8						3040.396	
Total-heptadoxins			2.222e6		1.396			3907		3.13e7						1025.145	
Total-Dioxins			1.818e7		1.203			1219		2.58e8						7131.278	
Total-TEQ			5.412e7					1219		7.82e8						17224.107	
FUNCTION1 PFK			2.084e5					422088		5.79e6							
FUNCTION2 PFK			1.706e7					232159		1.42e8						0.000	
FUNCTION3 PFK			0.000e0					319129		0.00e0							
FUNCTION4 PFK			0.000e0					193174		0.00e0							
FUNCTION5 PFK			2.801e4					183130		8.95e5							
FUNCTION1 HXCD...			1.567e2					600		2.46e3						0.000	
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			4.331e3					754		6.79e4						0.000	
FUNCTION3 OCDPE			1.751e3					467		2.37e4						0.000	
FUNCTION4 NCDPE			4.072e2					798		4.67e3						0.000	
FUNCTION5 DCDPE			1.888e3					525		1.57e4						0.000	

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42

Calibration: 27 Jul 2023 11:25:35

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, 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	25.68	8.967e5	1.142e6	0.951	0.79	0.77	9686.2	YES	NO	bb	bb	194.874
2	Total-tetrafurans	24.76	5.577e3	7.633e3	1.034	0.73	0.77	60.2	YES	NO	bb	bb	1.162
3	Total-tetrafurans	24.43	8.675e3	1.043e4	1.034	0.83	0.77	80.6	YES	NO	bd	bd	1.681

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	28.75	1.542e4	1.080e4	0.984	1.43	1.55	22.1	YES	NO	bb	bb	3.010
2	Total-pentafurans	31.40	1.068e4	7.372e3	0.984	1.45	1.55	17.2	YES	NO	bb	bd	2.073
3	23478-PeCDF	31.16	5.515e6	3.411e6	1.072	1.62	1.55	9122.2	YES	NO	bb	bb	983.776
4	Total-pentafurans	31.03	6.492e3	4.337e3	0.984	1.50	1.55	16.0	YES	NO	bb	bb	1.243
5	Total-pentafurans	30.90	4.389e3	2.680e3	0.984	1.64	1.55	8.0	YES	NO	bb	bb	0.812
6	Total-pentafurans	30.77	1.982e2	1.408e2	0.984	1.41	1.55	0.9	NO	NO	db	bb	0.039
7	12378-PeCDF	29.82	5.259e6	3.260e6	0.963	1.61	1.55	8820.2	YES	NO	bb	bb	957.431

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	34.92	4.010e6	3.160e6	1.100	1.27	1.24	24598.5	YES	NO	db	db	979.456
2	123478-HxCDF	34.79	3.529e6	2.813e6	1.142	1.25	1.24	23778.3	YES	NO	bd	bd	1010.7...
3	Total-hexafurans	34.62	3.117e3	2.833e3	1.155	1.10	1.24	24.1	YES	NO	bb	bb	0.909
4	Total-hexafurans	33.33	2.590e3	2.039e3	1.155	1.27	1.24	17.2	YES	NO	db	db	0.707
5	123789-HxCDF	36.83	2.951e6	2.310e6	1.066	1.28	1.24	18663.5	YES	NO	bb	bb	1012.6...
6	234678-HxCDF	35.79	3.551e6	2.819e6	1.138	1.26	1.24	23588.8	YES	NO	bb	bb	994.359

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.90	2.595e6	2.471e6	1.213	1.05	1.05	5208.9	YES	NO	bb	bb	1010.1...
2	Total-heptafurans	39.33	4.270e3	4.239e3	1.211	1.01	1.05	9.8	YES	NO	bb	bb	1.485
3	1234678-HpCDF	38.67	3.406e6	3.249e6	1.210	1.05	1.05	7883.0	YES	NO	bb	bb	1032.6...

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	25.68	8.967e5	1.142e6	0.951	0.79	0.77	9686.2	YES	NO	bb	bb	194.874
2	Total-tetrafurans	24.76	5.577e3	7.633e3	1.034	0.73	0.77	60.2	YES	NO	bb	bb	1.162
3	Total-tetrafurans	24.43	8.675e3	1.043e4	1.034	0.83	0.77	80.6	YES	NO	bd	bd	1.681
4	Total-pentafurans	28.75	1.542e4	1.080e4	0.984	1.43	1.55	22.1	YES	NO	bb	bb	3.010
5	Total-pentafurans	31.40	1.068e4	7.372e3	0.984	1.45	1.55	17.2	YES	NO	bb	bd	2.073
6	23478-PeCDF	31.16	5.515e6	3.411e6	1.072	1.62	1.55	9122.2	YES	NO	bb	bb	983.776
7	Total-pentafurans	31.03	6.492e3	4.337e3	0.984	1.50	1.55	16.0	YES	NO	bb	bb	1.243
8	Total-pentafurans	30.90	4.389e3	2.680e3	0.984	1.64	1.55	8.0	YES	NO	bb	bb	0.812
9	Total-pentafurans	30.77	1.982e2	1.408e2	0.984	1.41	1.55	0.9	NO	NO	db	bb	0.039
10	12378-PeCDF	29.82	5.259e6	3.260e6	0.963	1.61	1.55	8820.2	YES	NO	bb	bb	957.431
11	123678-HxCDF	34.92	4.010e6	3.160e6	1.100	1.27	1.24	24598.5	YES	NO	db	db	979.456
12	123478-HxCDF	34.79	3.529e6	2.813e6	1.142	1.25	1.24	23778.3	YES	NO	bd	bd	1010.7...
13	Total-hexafurans	34.62	3.117e3	2.833e3	1.155	1.10	1.24	24.1	YES	NO	bb	bb	0.909
14	Total-hexafurans	33.33	2.590e3	2.039e3	1.155	1.27	1.24	17.2	YES	NO	db	db	0.707
15	123789-HxCDF	36.83	2.951e6	2.310e6	1.066	1.28	1.24	18663.5	YES	NO	bb	bb	1012.6...
16	234678-HxCDF	35.79	3.551e6	2.819e6	1.138	1.26	1.24	23588.8	YES	NO	bb	bb	994.359
17	1234789-HpCDF	40.90	2.595e6	2.471e6	1.213	1.05	1.05	5208.9	YES	NO	bb	bb	1010.1...
18	Total-heptafurans	39.33	4.270e3	4.239e3	1.211	1.01	1.05	9.8	YES	NO	bb	bb	1.485
19	1234678-HpCDF	38.67	3.406e6	3.249e6	1.210	1.05	1.05	7883.0	YES	NO	bb	bb	1032.6...
20	OCDF	45.10	4.163e6	4.483e6	1.391	0.93	0.89	13647.3	YES	NO	bb	bb	1903.6...

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.31	6.927e5	8.781e5	1.197	0.79	0.77	8769.6	YES	NO	bb	bb	198.514
2	Total-tetradioxins	25.92	1.532e4	1.929e4	1.100	0.79	0.77	152.7	YES	NO	bb	bb	4.758

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.42	3.504e6	2.233e6	1.129	1.57	1.55	21591.8	YES	NO	bb	bb	996.236
2	Total-pentadioxins	30.75	4.197e3	2.616e3	1.499	1.60	1.55	23.4	YES	NO	bb	bb	0.891
3	Total-pentadioxins	29.82	3.130e3	2.226e3	1.499	1.41	1.55	14.5	YES	NO	bd	bd	0.701

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	36.82	1.339e4	9.964e3	0.958	1.34	1.24	39.6	YES	NO	bb	bb	4.433
2	123789-HxCDD	36.41	2.670e6	2.192e6	0.869	1.22	1.24	9768.4	YES	NO	bb	bb	1018.1...
3	123678-HxCDD	36.03	2.970e6	2.437e6	0.944	1.22	1.24	10918.5	YES	NO	db	db	973.194
4	123478-HxCDD	35.91	2.693e6	2.200e6	0.917	1.22	1.24	10269.8	YES	NO	bd	bd	1044.6...

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.16	2.222e6	2.108e6	1.237	1.05	1.05	8015.7	YES	NO	bb	bb	1025.1...

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	26.31	6.927e5	8.781e5	1.197	0.79	0.77	8769.6	YES	NO	bb	bb	198.514
2	Total-tetradioxins	25.92	1.532e4	1.929e4	1.100	0.79	0.77	152.7	YES	NO	bb	bb	4.758
3	12378-PeCDD	31.42	3.504e6	2.233e6	1.129	1.57	1.55	21591.8	YES	NO	bb	bb	996.236
4	Total-pentadioxins	30.75	4.197e3	2.616e3	1.499	1.60	1.55	23.4	YES	NO	bb	bb	0.891
5	Total-pentadioxins	29.82	3.130e3	2.226e3	1.499	1.41	1.55	14.5	YES	NO	bd	bd	0.701
6	Total-hexadioxins	36.82	1.339e4	9.964e3	0.958	1.34	1.24	39.6	YES	NO	bb	bb	4.433
7	123789-HxCDD	36.41	2.670e6	2.192e6	0.869	1.22	1.24	9768.4	YES	NO	bb	bb	1018.1...
8	123678-HxCDD	36.03	2.970e6	2.437e6	0.944	1.22	1.24	10918.5	YES	NO	db	db	973.194
9	123478-HxCDD	35.91	2.693e6	2.200e6	0.917	1.22	1.24	10269.8	YES	NO	bd	bd	1044.6...
10	1234678-HpCDD	40.16	2.222e6	2.108e6	1.237	1.05	1.05	8015.7	YES	NO	bb	bb	1025.1...
11	OCDD	44.86	3.396e6	3.987e6	1.212	0.85	0.89	12054.6	YES	NO	bd	bd	1864.6...

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:29:23 Pacific Daylight Time

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.68	8.967e5	1.142e6	0.951	0.79	0.77	9686.2	YES	NO	bb	bb	194.874
2	Total-tetrafurans	24.76	5.577e3	7.633e3	1.034	0.73	0.77	60.2	YES	NO	bb	bb	1.162
3	Total-tetrafurans	24.43	8.675e3	1.043e4	1.034	0.83	0.77	80.6	YES	NO	bd	bd	1.681
4	Total-pentafurans	28.75	1.542e4	1.080e4	0.984	1.43	1.55	22.1	YES	NO	bb	bb	3.010
5	Total-pentafurans	31.40	1.068e4	7.372e3	0.984	1.45	1.55	17.2	YES	NO	bb	bd	2.073
6	23478-PeCDF	31.16	5.515e6	3.411e6	1.072	1.62	1.55	9122.2	YES	NO	bb	bb	983.776
7	Total-pentafurans	31.03	6.492e3	4.337e3	0.984	1.50	1.55	16.0	YES	NO	bb	bb	1.243
8	Total-pentafurans	30.90	4.389e3	2.680e3	0.984	1.64	1.55	8.0	YES	NO	bb	bb	0.812
9	Total-pentafurans	30.77	1.982e2	1.408e2	0.984	1.41	1.55	0.9	NO	NO	db	bb	0.039
10	12378-PeCDF	29.82	5.259e6	3.260e6	0.963	1.61	1.55	8820.2	YES	NO	bb	bb	957.431
11	123678-HxCDF	34.92	4.010e6	3.160e6	1.100	1.27	1.24	24598.5	YES	NO	db	db	979.456
12	123478-HxCDF	34.79	3.529e6	2.813e6	1.142	1.25	1.24	23778.3	YES	NO	bd	bd	1010.7...
13	Total-hexafurans	34.62	3.117e3	2.833e3	1.155	1.10	1.24	24.1	YES	NO	bb	bb	0.909
14	Total-hexafurans	33.33	2.590e3	2.039e3	1.155	1.27	1.24	17.2	YES	NO	db	db	0.707
15	123789-HxCDF	36.83	2.951e6	2.310e6	1.066	1.28	1.24	18663.5	YES	NO	bb	bb	1012.6...
16	234678-HxCDF	35.79	3.551e6	2.819e6	1.138	1.26	1.24	23588.8	YES	NO	bb	bb	994.359
17	1234789-HpCDF	40.90	2.595e6	2.471e6	1.213	1.05	1.05	5208.9	YES	NO	bb	bb	1010.1...
18	Total-heptafurans	39.33	4.270e3	4.239e3	1.211	1.01	1.05	9.8	YES	NO	bb	bb	1.485
19	1234678-HpCDF	38.67	3.406e6	3.249e6	1.210	1.05	1.05	7883.0	YES	NO	bb	bb	1032.6...
20	OCDF	45.10	4.163e6	4.483e6	1.391	0.93	0.89	13647.3	YES	NO	bb	bb	1903.6...
21	2378-TCDD	26.31	6.927e5	8.781e5	1.197	0.79	0.77	8769.6	YES	NO	bb	bb	198.514
22	Total-tetradiioxins	25.92	1.532e4	1.929e4	1.100	0.79	0.77	152.7	YES	NO	bb	bb	4.758
23	12378-PeCDD	31.42	3.504e6	2.233e6	1.129	1.57	1.55	21591.8	YES	NO	bb	bb	996.236
24	Total-pentadiioxins	30.75	4.197e3	2.616e3	1.499	1.60	1.55	23.4	YES	NO	bb	bb	0.891
25	Total-pentadiioxins	29.82	3.130e3	2.226e3	1.499	1.41	1.55	14.5	YES	NO	bd	bd	0.701
26	Total-hexadiioxins	36.82	1.339e4	9.964e3	0.958	1.34	1.24	39.6	YES	NO	bb	bb	4.433
27	123789-HxCDD	36.41	2.670e6	2.192e6	0.869	1.22	1.24	9768.4	YES	NO	bb	bb	1018.1...
28	123678-HxCDD	36.03	2.970e6	2.437e6	0.944	1.22	1.24	10918.5	YES	NO	db	db	973.194
29	123478-HxCDD	35.91	2.693e6	2.200e6	0.917	1.22	1.24	10269.8	YES	NO	bd	bd	1044.6...
30	1234678-HpCDD	40.16	2.222e6	2.108e6	1.237	1.05	1.05	8015.7	YES	NO	bb	bb	1025.1...
31	OCDD	44.86	3.396e6	3.987e6	1.212	0.85	0.89	12054.6	YES	NO	bd	bd	1864.6...

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, 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	27.74	2.345e4					1.4	NO		bb		
2	FUNCTION1 PFK	27.13	1.254e4					0.8	NO		bb		
3	FUNCTION1 PFK	27.02	7.863e3					0.8	NO		bb		
4	FUNCTION1 PFK	26.64	7.213e3					0.7	NO		bb		
5	FUNCTION1 PFK	25.82	1.528e4					1.2	NO		bb		
6	FUNCTION1 PFK	24.62	1.361e4					1.1	NO		db		
7	FUNCTION1 PFK	24.57	2.316e4					1.2	NO		bd		
8	FUNCTION1 PFK	24.05	1.844e4					1.1	NO		bb		
9	FUNCTION1 PFK	23.67	7.751e3					0.6	NO		bb		
10	FUNCTION1 PFK	23.61	5.300e3					0.6	NO		bb		
11	FUNCTION1 PFK	23.06	3.115e3					0.5	NO		bb		
12	FUNCTION1 PFK	22.74	8.661e3					0.8	NO		bb		
13	FUNCTION1 PFK	22.37	3.355e3					0.6	NO		bb		
14	FUNCTION1 PFK	21.71	4.424e4					1.0	NO		bb		
15	FUNCTION1 PFK	27.95	1.438e4					1.3	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, 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	29.87	5.863e4					5.0	YES		dd		0.000
2	FUNCTION2 PFK	29.70	7.222e5					12.3	YES		dd		0.000
3	FUNCTION2 PFK	29.53	1.840e5					18.6	YES		dd		0.000
4	FUNCTION2 PFK	29.29	1.370e6					27.4	YES		dd		0.000
5	FUNCTION2 PFK	29.14	1.014e6					32.9	YES		dd		0.000
6	FUNCTION2 PFK	29.10	4.315e5					33.8	YES		dd		0.000
7	FUNCTION2 PFK	29.00	6.495e5					37.7	YES		dd		0.000
8	FUNCTION2 PFK	28.75	2.417e6					47.4	YES		dd		0.000
9	FUNCTION2 PFK	28.71	6.233e5					48.7	YES		dd		0.000
10	FUNCTION2 PFK	28.64	2.732e6					51.1	YES		dd		0.000
11	FUNCTION2 PFK	28.39	1.204e6					60.0	YES		dd		0.000
12	FUNCTION2 PFK	28.33	9.614e5					63.6	YES		dd		0.000
13	FUNCTION2 PFK	28.26	2.183e6					64.7	YES		dd		0.000
14	FUNCTION2 PFK	28.08	2.151e6					71.5	YES		bd		0.000
15	FUNCTION2 PFK	31.85	7.816e3					1.5	NO		bb		0.000
16	FUNCTION2 PFK	31.65	3.334e3					0.7	NO		bb		0.000
17	FUNCTION2 PFK	31.37	1.388e4					2.1	NO		db		0.000
18	FUNCTION2 PFK	31.30	4.439e4					2.8	NO		dd		0.000
19	FUNCTION2 PFK	31.24	3.892e4					2.9	NO		bd		0.000
20	FUNCTION2 PFK	31.10	2.508e4					2.0	NO		bb		0.000
21	FUNCTION2 PFK	30.95	2.736e3					0.6	NO		db		0.000
22	FUNCTION2 PFK	30.90	1.985e3					0.5	NO		bd		0.000
23	FUNCTION2 PFK	30.81	1.795e4					2.0	NO		db		0.000
24	FUNCTION2 PFK	30.78	1.101e4					1.6	NO		bd		0.000
25	FUNCTION2 PFK	30.68	7.597e3					1.3	NO		bb		0.000
26	FUNCTION2 PFK	30.62	1.045e4					1.3	NO		bb		0.000
27	FUNCTION2 PFK	30.47	4.600e3					0.8	NO		bb		0.000
28	FUNCTION2 PFK	30.35	6.772e3					1.2	NO		bb		0.000
29	FUNCTION2 PFK	30.10	6.842e3					1.2	NO		bb		0.000
30	FUNCTION2 PFK	29.90	6.519e4					4.6	YES		db		0.000
31	FUNCTION2 PFK	32.71	3.270e3					0.8	NO		bb		0.000
32	FUNCTION2 PFK	32.66	2.782e3					0.7	NO		bb		0.000
33	FUNCTION2 PFK	32.51	9.830e3					1.4	NO		db		0.000
34	FUNCTION2 PFK	32.41	3.021e4					1.9	NO		dd		0.000
35	FUNCTION2 PFK	32.34	2.377e4					1.6	NO		bd		0.000
36	FUNCTION2 PFK	32.15	1.085e4					1.9	NO		db		0.000
37	FUNCTION2 PFK	32.10	5.972e3					1.0	NO		bd		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
 Last Altered: Thursday, July 27, 2023 11:25:35 Pacific Daylight Time
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	31.91	2.667e3					0.5	NO		bb		0.000

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													

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.61	2.801e4					4.9	YES		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.39	7.739e1					2.1	NO		bb		0.000
2	FUNCTION1 HXCD...	24.09	7.928e1					2.0	NO		bb		0.000

ETHERS2

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

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.42	6.015e2					10.7	YES		bb		0.000
2	FUNCTION2 HPCD...	31.01	3.729e3					79.4	YES		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713\CIH.qld
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.83	2.235e2					7.0	YES		bb		0.000
2	FUNCTION3 OCDPE	36.41	4.885e2					13.4	YES		bb		0.000
3	FUNCTION3 OCDPE	36.03	4.748e2					13.0	YES		db		0.000
4	FUNCTION3 OCDPE	35.91	4.069e2					11.8	YES		bd		0.000
5	FUNCTION3 OCDPE	34.80	1.568e2					5.6	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.68	4.072e2					5.9	YES		bb		0.000

ETHERS6

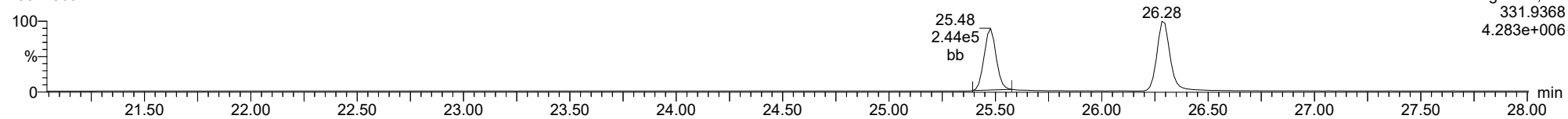
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.13	1.128e3					16.5	YES		db		0.000
2	FUNCTION5 DCDPE	44.88	7.602e2					13.4	YES		bd		0.000

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
Calibration: 27 Jul 2023 11:25:35

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

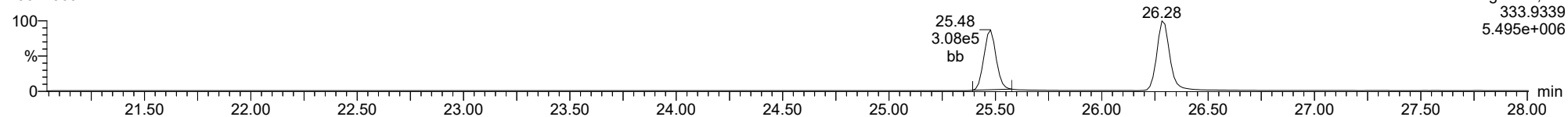
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23071309



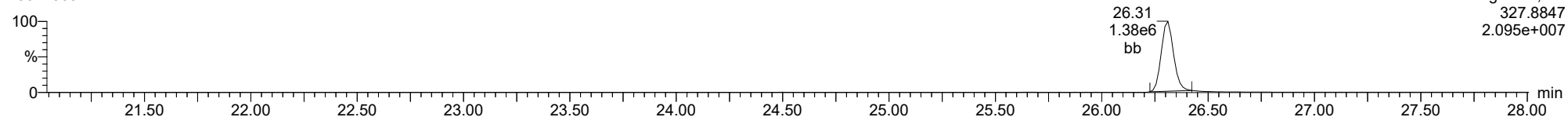
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23071309



37CL-2378-TCDD

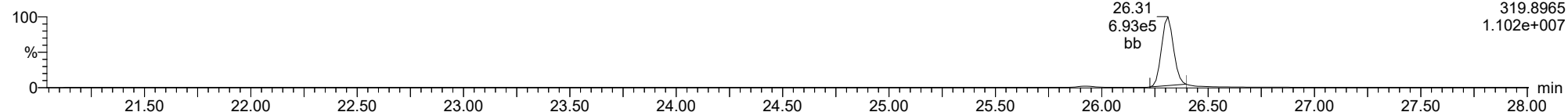
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

2378-TCDD

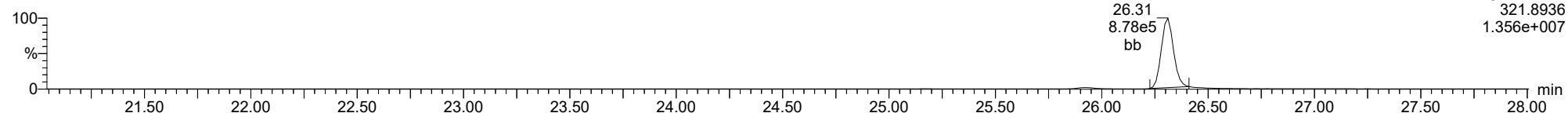
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F1:Voltage SIR,EI+
319.8965
1.102e+007

2378-TCDD

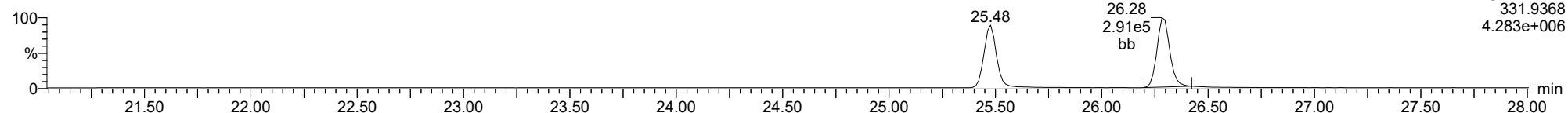
23071309



F1:Voltage SIR,EI+
321.8936
1.356e+007

13C-2378-TCDD

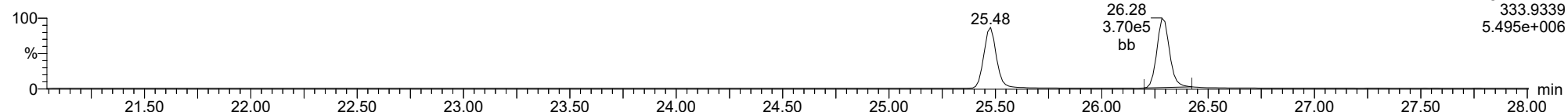
23071309



F1:Voltage SIR,EI+
331.9368
4.283e+006

13C-2378-TCDD

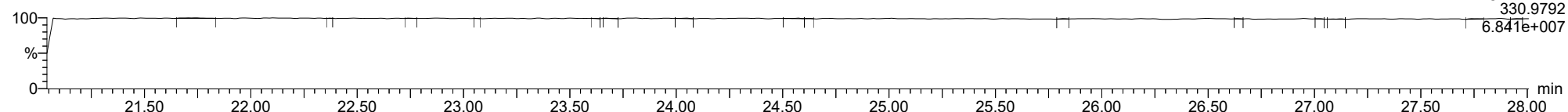
23071309



F1:Voltage SIR,EI+
333.9339
5.495e+006

FUNCTION1 PFK

23071309

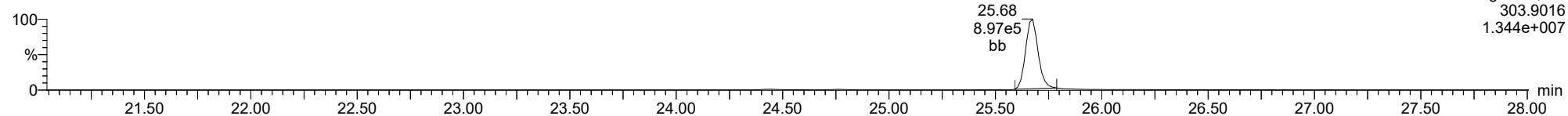


F1:Voltage SIR,EI+
330.9792
6.841e+007

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

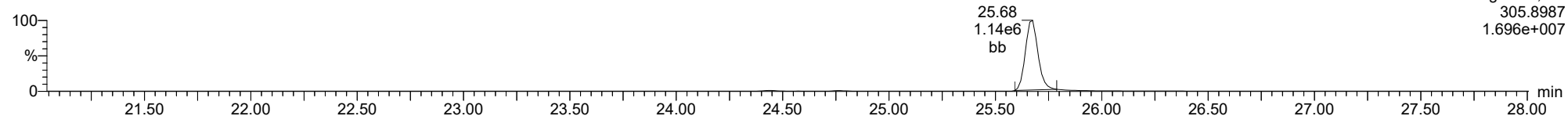
2378-TCDF

23071309



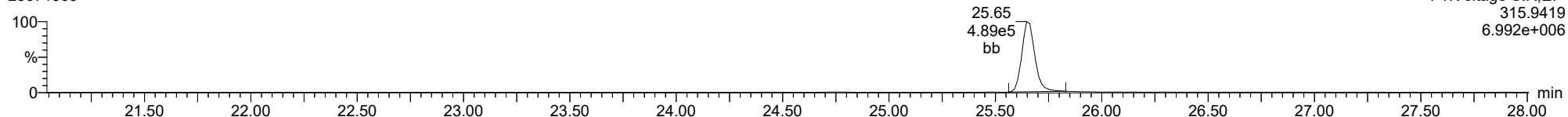
2378-TCDF

23071309



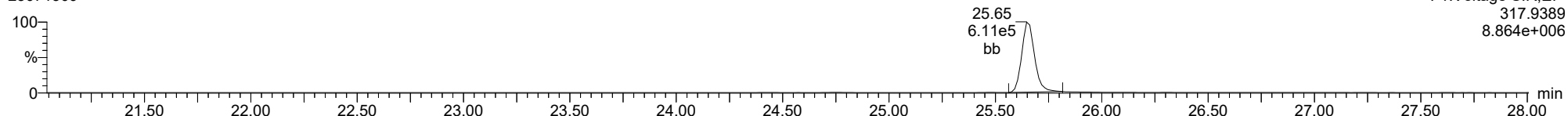
13C-2378-TCDF

23071309



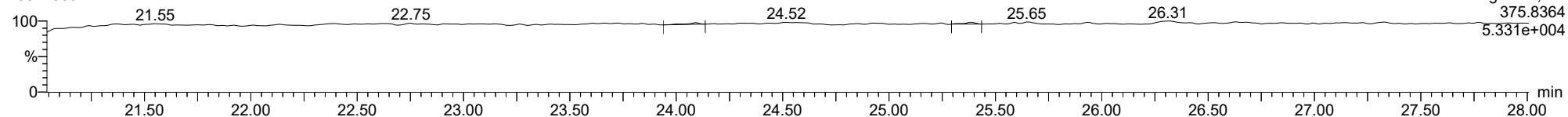
13C-2378-TCDF

23071309



FUNCTION1 HXCDFE

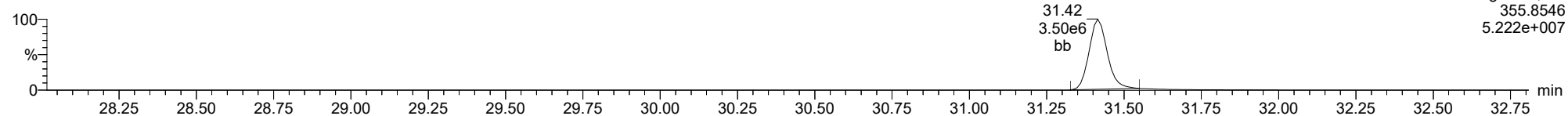
23071309



ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

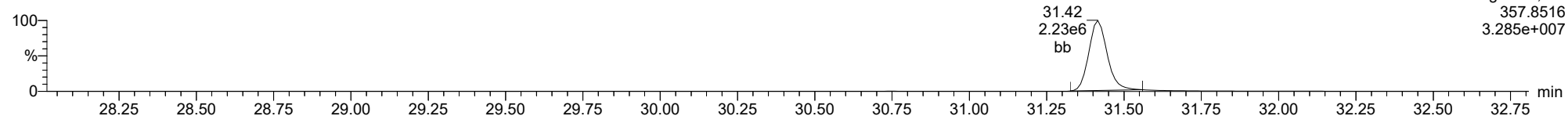
23071309



F2:Voltage SIR,El+
355.8546
5.222e+007

12378-PeCDD

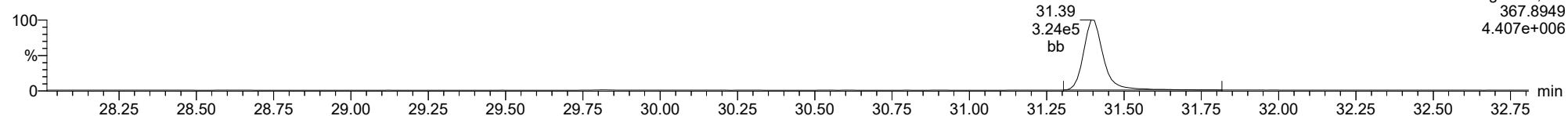
23071309



F2:Voltage SIR,El+
357.8516
3.285e+007

13C-12378-PeCDD

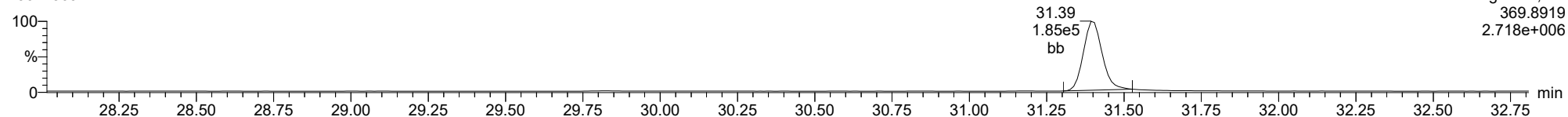
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F2:Voltage SIR,El+
367.8949
4.407e+006

13C-12378-PeCDD

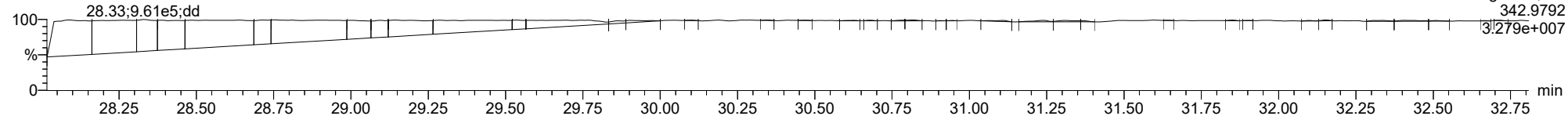
23071309



F2:Voltage SIR,El+
369.8919
2.718e+006

FUNCTION2 PFK

23071309

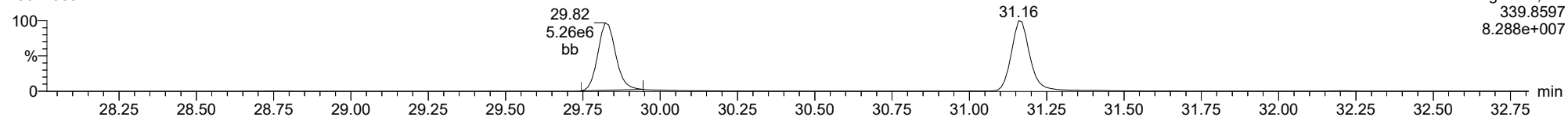


F2:Voltage SIR,El+
342.9792
3.279e+007

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

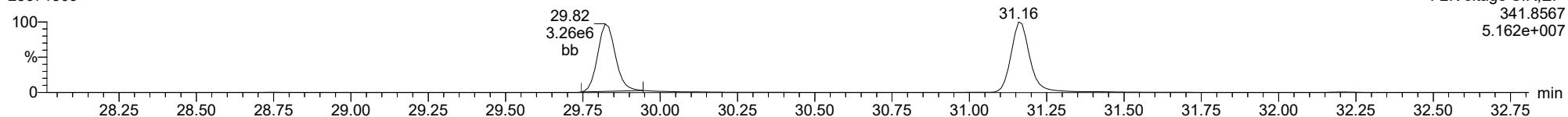
12378-PeCDF

23071309



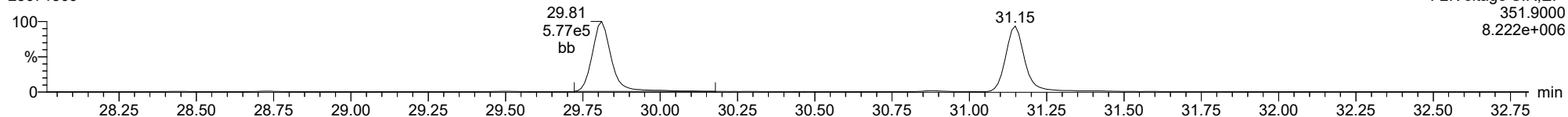
12378-PeCDF

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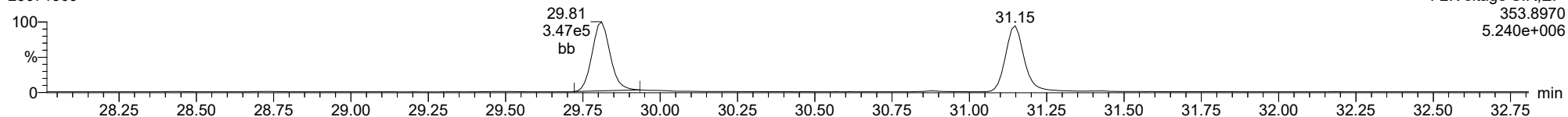
13C-12378-PeCDF

23071309



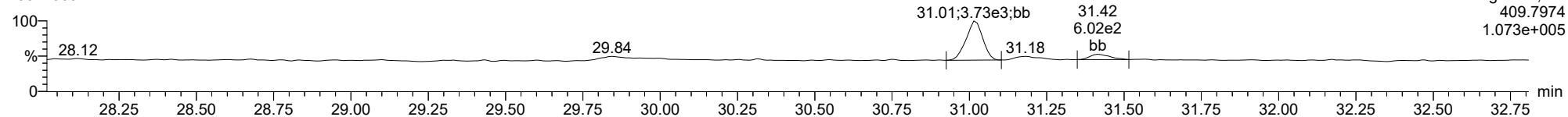
13C-12378-PeCDF

23071309



FUNCTION2 HPCDPE

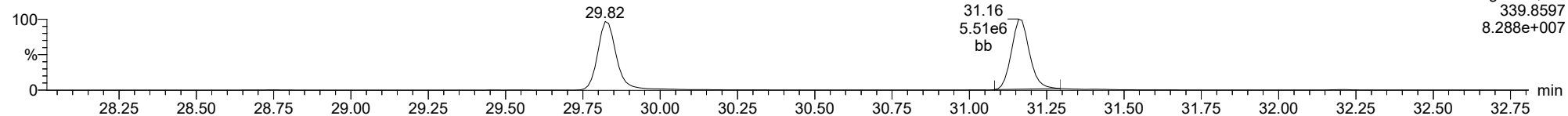
23071309



ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

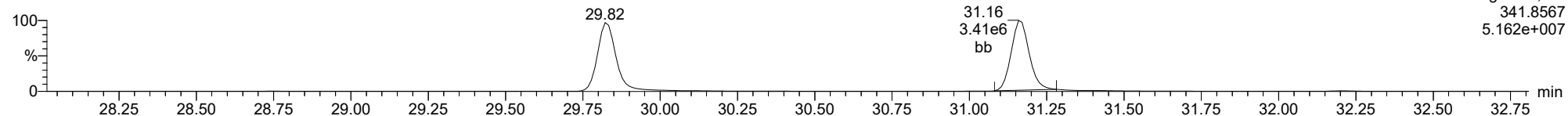
23478-PeCDF

23071309



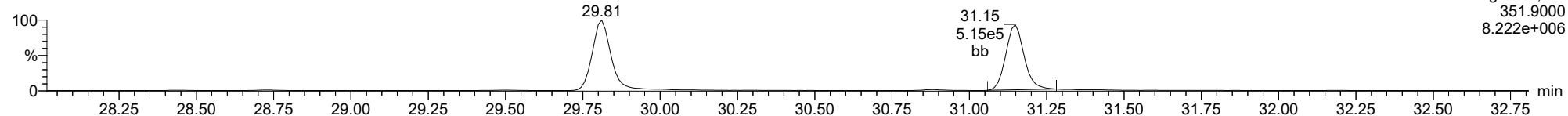
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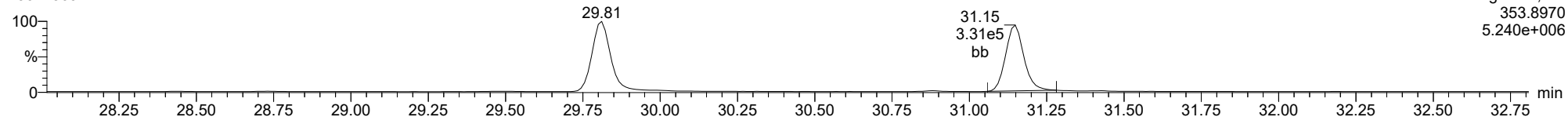
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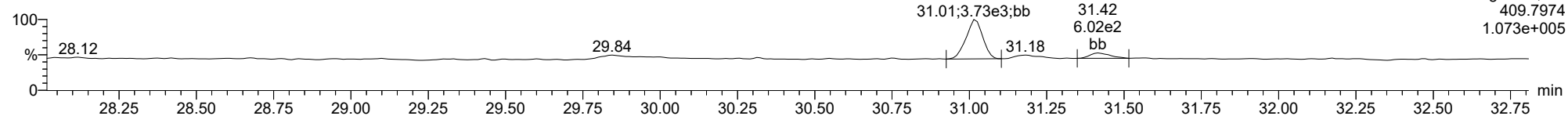
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23071309



FUNCTION2 HPCDPE

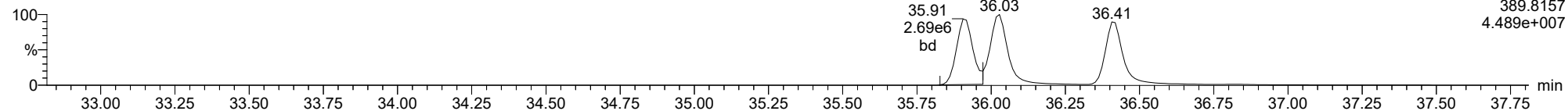
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

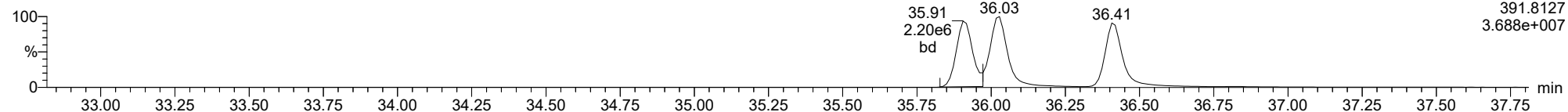
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F3:Voltage SIR,El+
389.8157
4.489e+007

123478-HxCDD

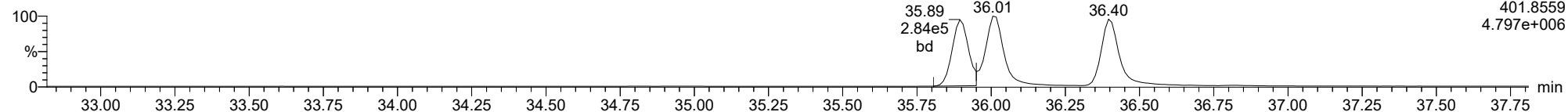
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F3:Voltage SIR,El+
391.8127
3.688e+007

13C-123478-HxCDD

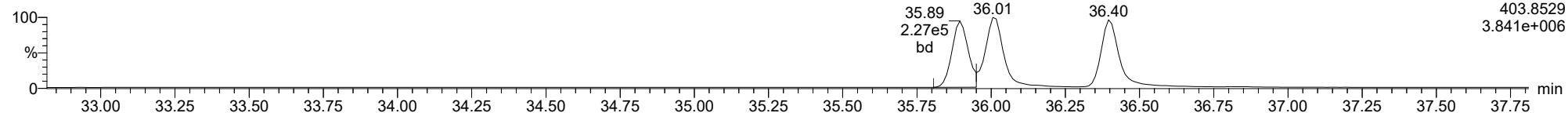
23071309



F3:Voltage SIR,El+
401.8559
4.797e+006

13C-123478-HxCDD

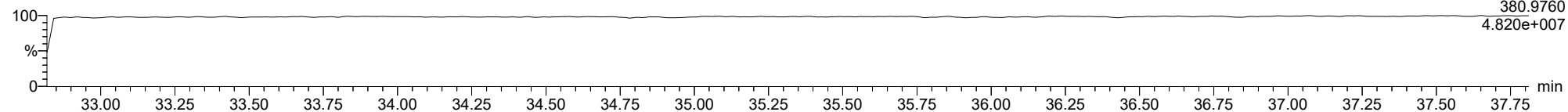
23071309



F3:Voltage SIR,El+
403.8529
3.841e+006

FUNCTION3 PFK

23071309

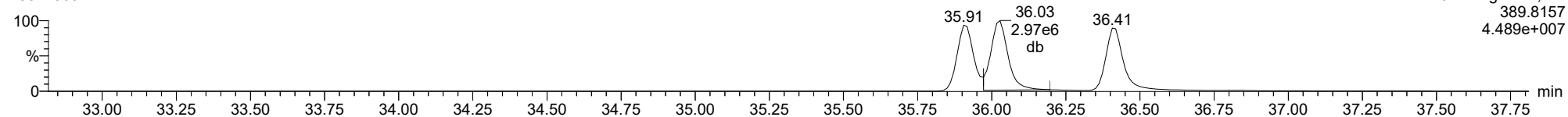


F3:Voltage SIR,El+
380.9760
4.820e+007

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

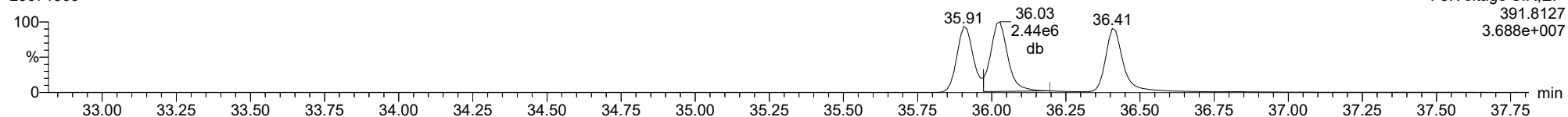
123678-HxCDD

23071309



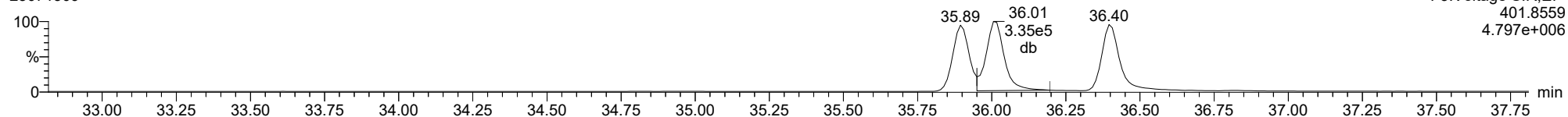
123678-HxCDD

23071309



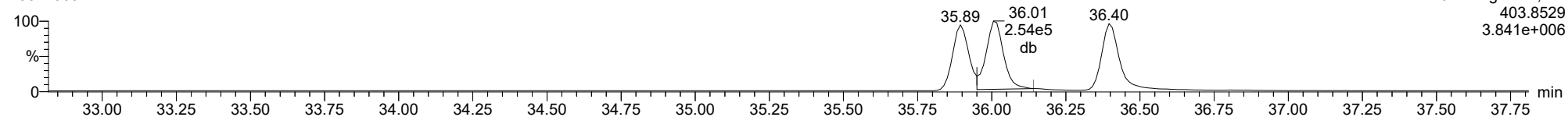
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13C-123678-HxCDD

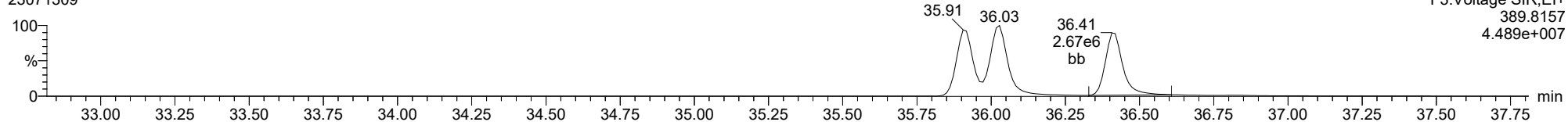
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

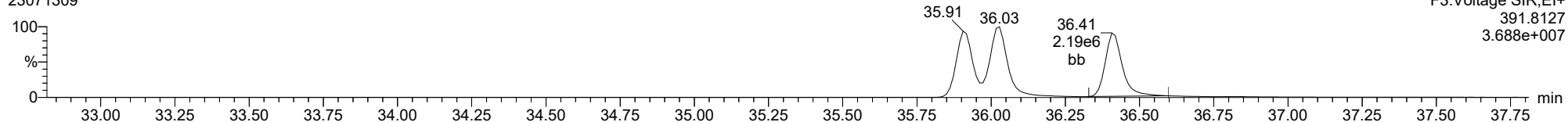
123789-HxCDD

23071309



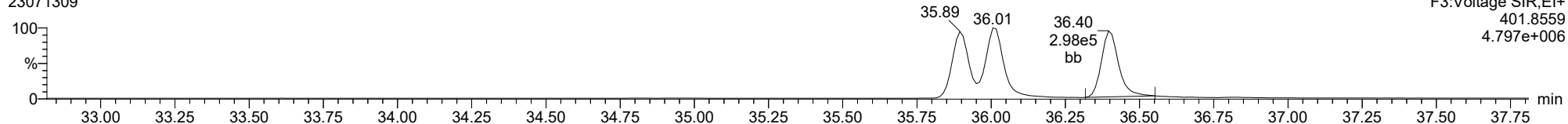
123789-HxCDD

23071309



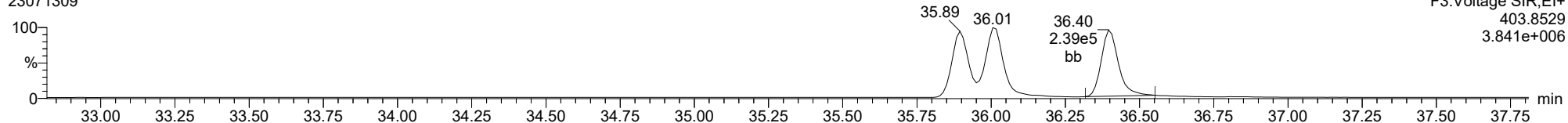
13C-123789-HxCDD

23071309



13C-123789-HxCDD

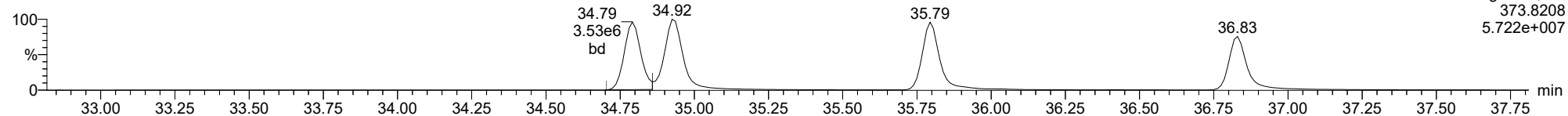
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

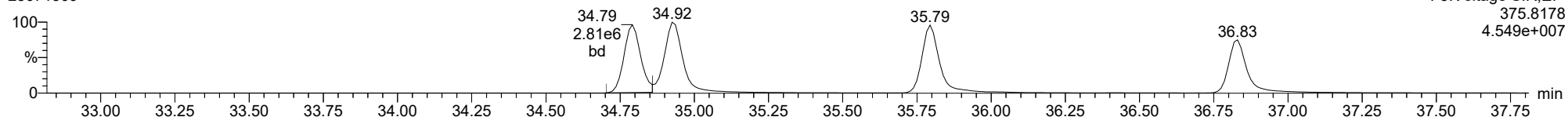
123478-HxCDF

23071309



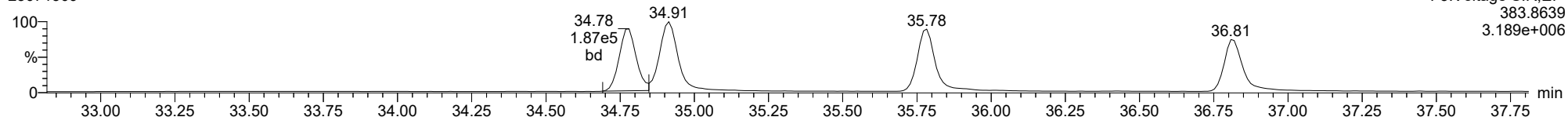
123478-HxCDF

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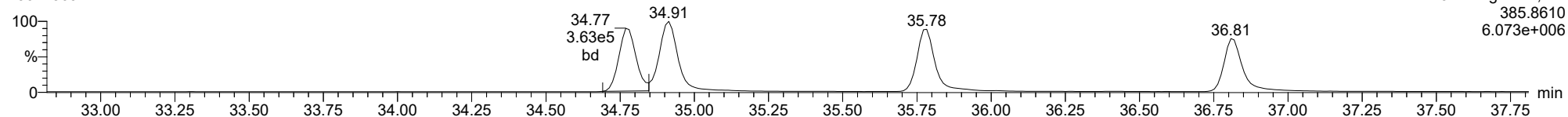
13C-123478-HxCDF

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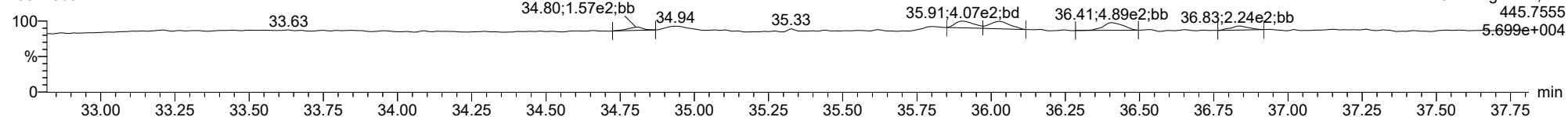
13C-123478-HxCDF

23071309



FUNCTION3 OCDPE

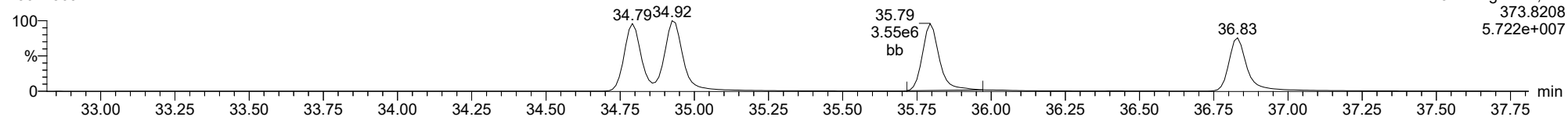
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

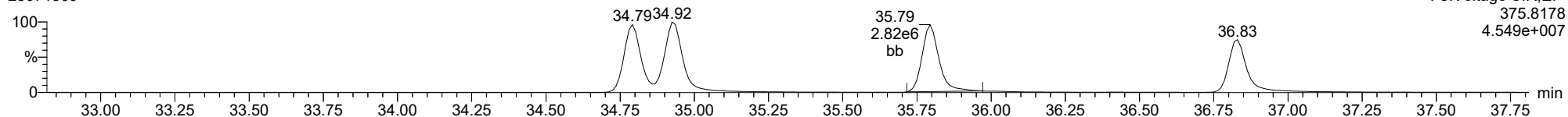
234678-HxCDF

23071309



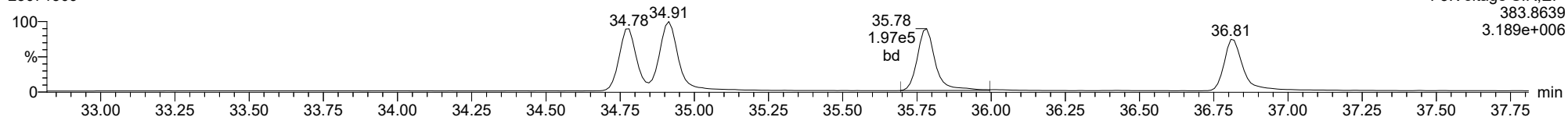
234678-HxCDF

23071309



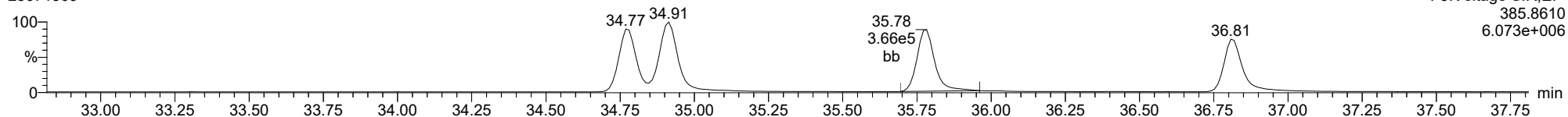
13C-234678-HxCDF

23071309



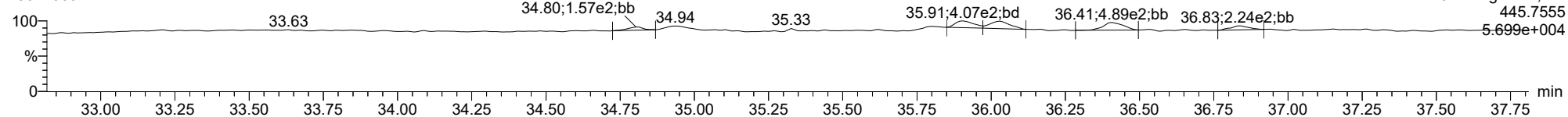
13C-234678-HxCDF

23071309



FUNCTION3 OCDPE

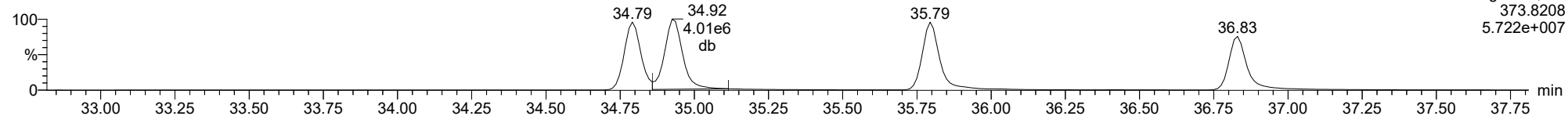
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

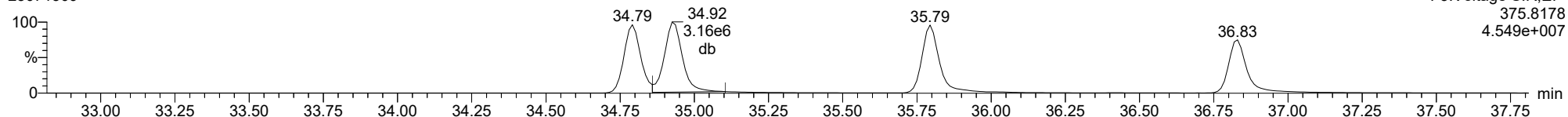
123678-HxCDF

23071309



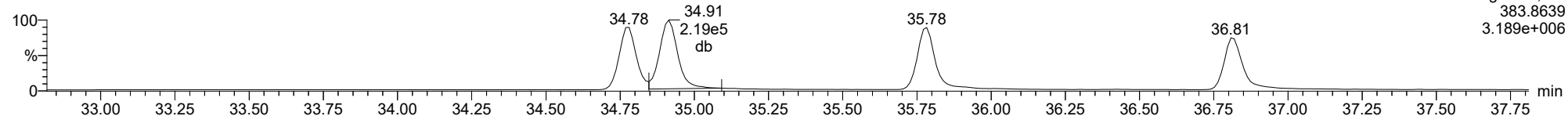
123678-HxCDF

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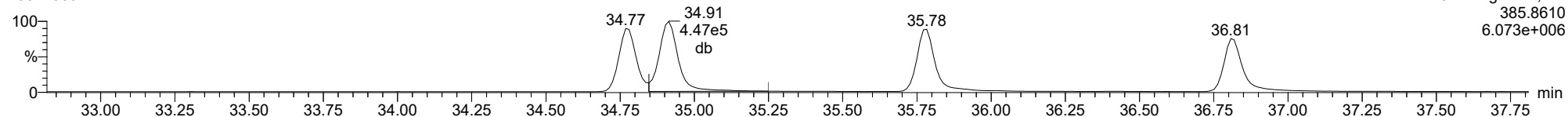
13C-123678-HxCDF

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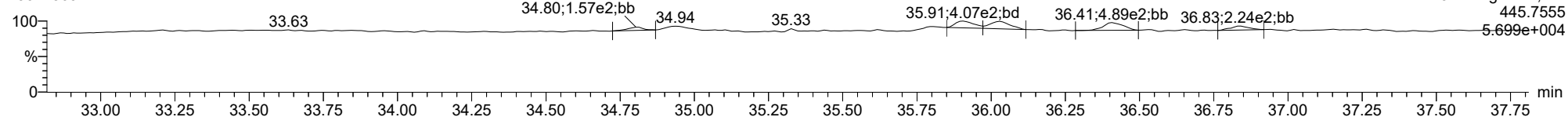
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FUNCTION3 OCDPE

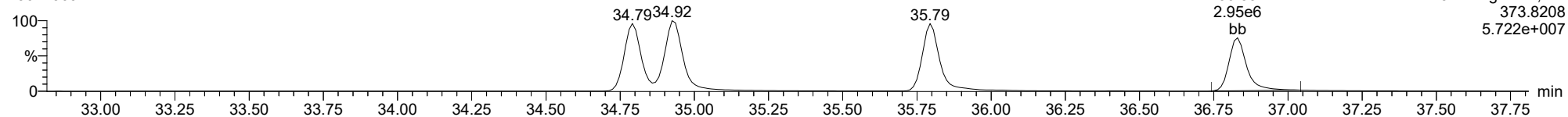
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

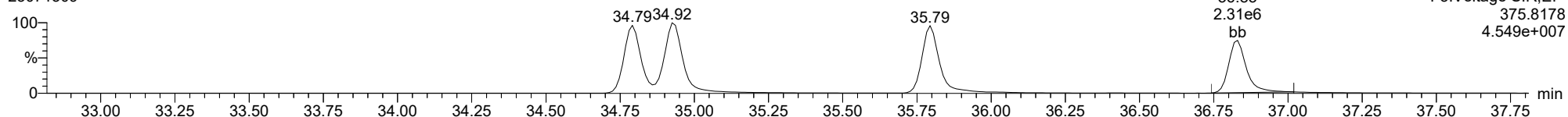
123789-HxCDF

23071309



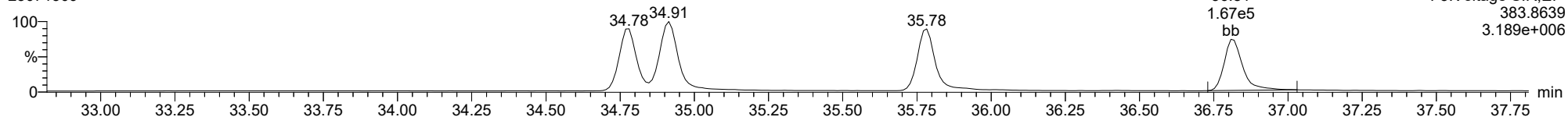
123789-HxCDF

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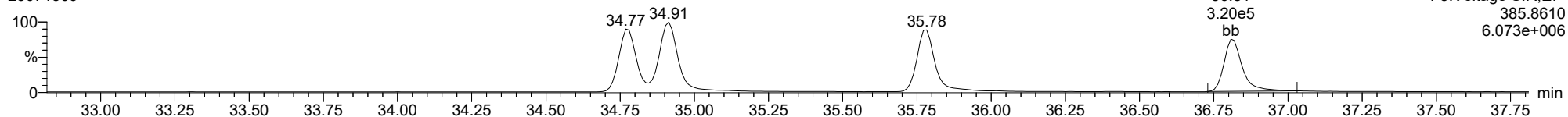
13C-123789-HxCDF

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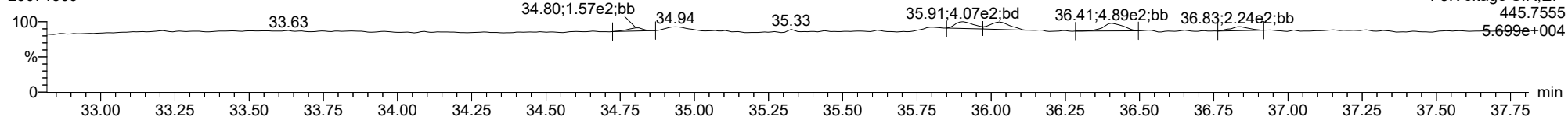
13C-123789-HxCDF

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FUNCTION3 OCDPE

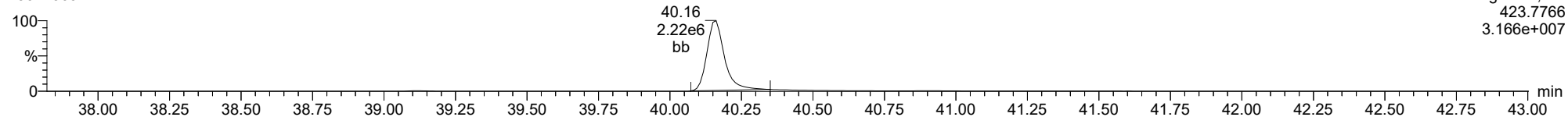
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

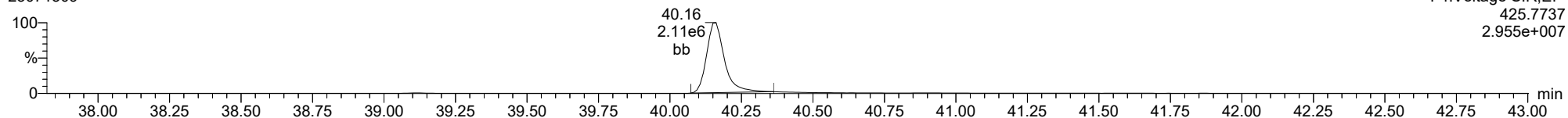
23071309



F4:Voltage SIR,El+
423.7766
3.166e+007

1234678-HpCDD

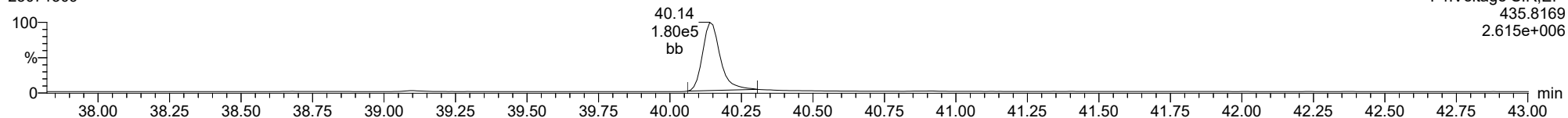
23071309



F4:Voltage SIR,El+
425.7737
2.955e+007

13C-1234678-HpCDD

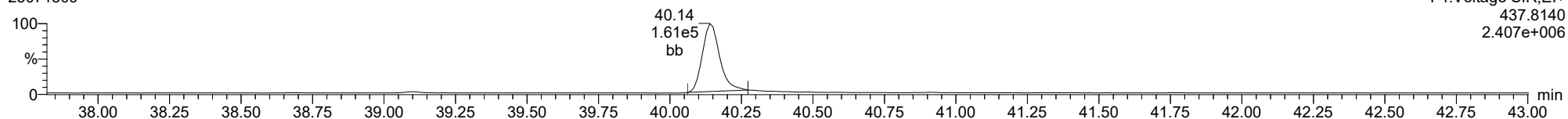
23071309



F4:Voltage SIR,El+
435.8169
2.615e+006

13C-1234678-HpCDD

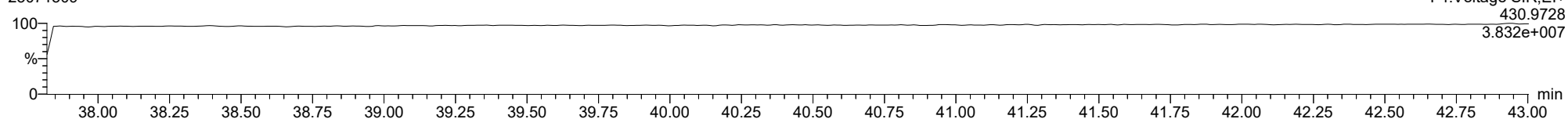
23071309



F4:Voltage SIR,El+
437.8140
2.407e+006

FUNCTION4 PFK

23071309

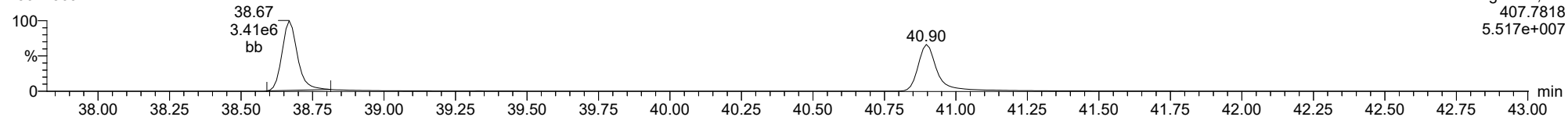


F4:Voltage SIR,El+
430.9728
3.832e+007

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

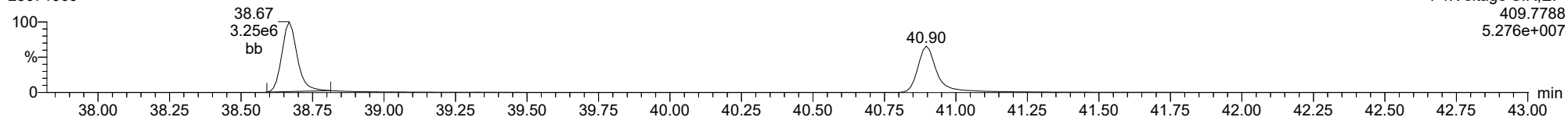
23071309



F4:Voltage SIR,EI+
407.7818
5.517e+007

1234678-HpCDF

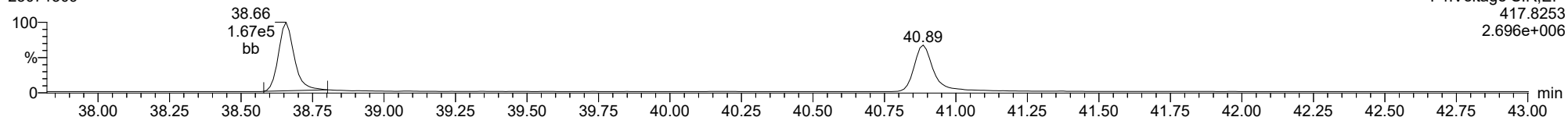
23071309



F4:Voltage SIR,EI+
409.7788
5.276e+007

13C-1234678-HpCDF

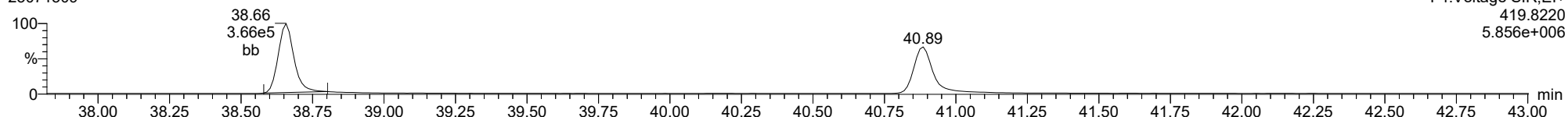
23071309



F4:Voltage SIR,EI+
417.8253
2.696e+006

13C-1234678-HpCDF

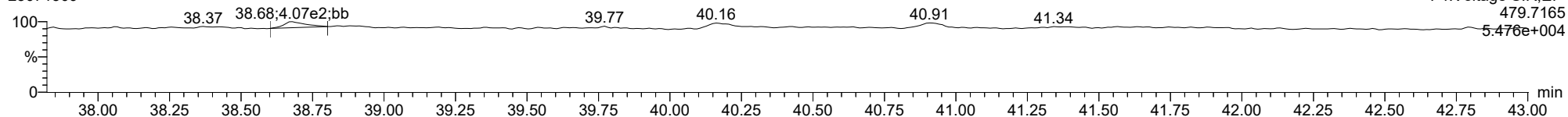
23071309



F4:Voltage SIR,EI+
419.8220
5.856e+006

FUNCTION4 NCDPE

23071309

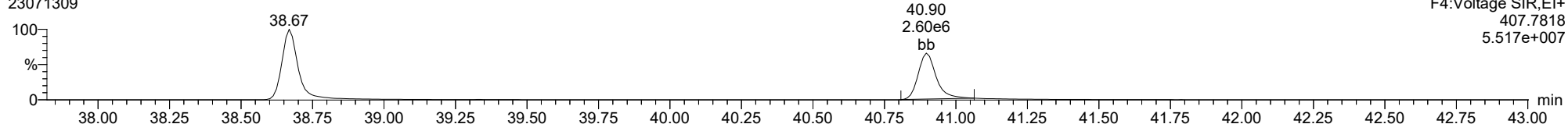


F4:Voltage SIR,EI+
479.7165
5.476e+004

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

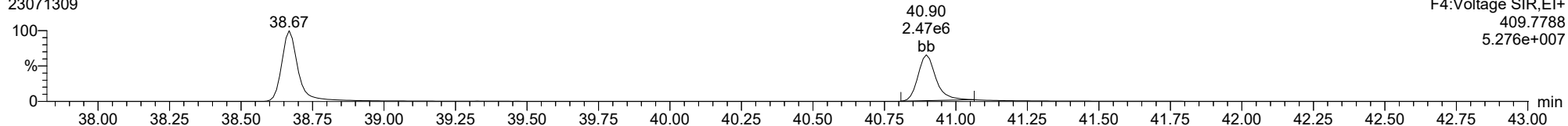
23071309



F4:Voltage SIR,EI+
407.7818
5.517e+007

1234789-HpCDF

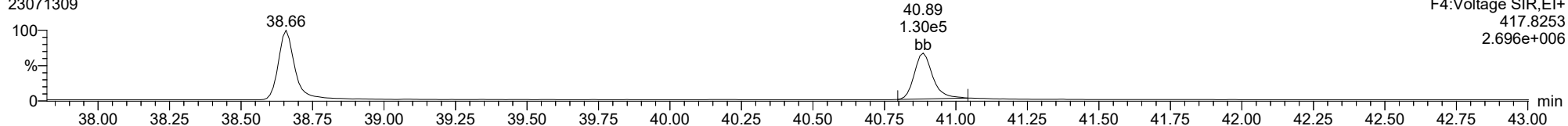
23071309



F4:Voltage SIR,EI+
409.7788
5.276e+007

13C-1234789-HpCDF

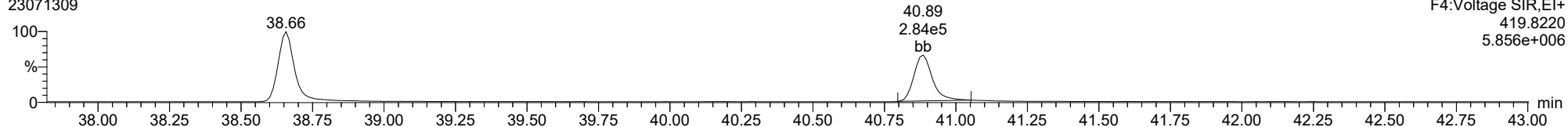
23071309



F4:Voltage SIR,EI+
417.8253
2.696e+006

13C-1234789-HpCDF

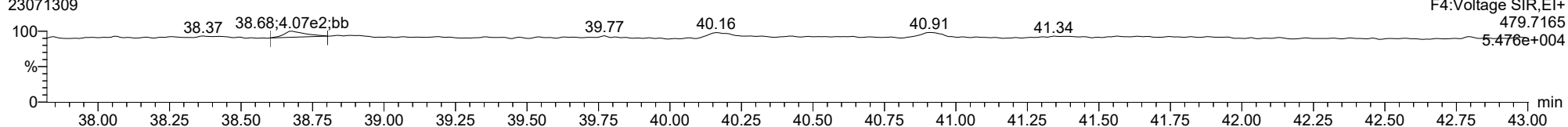
23071309



F4:Voltage SIR,EI+
419.8220
5.856e+006

FUNCTION4 NCDPE

23071309

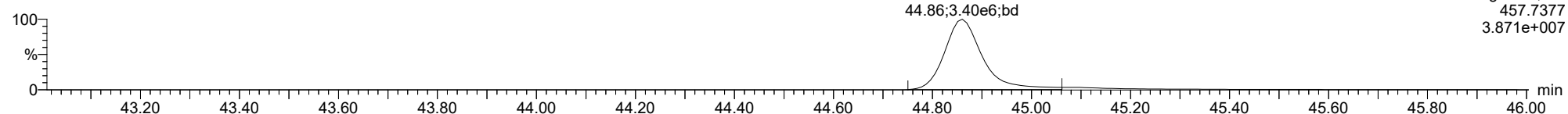


F4:Voltage SIR,EI+
479.7165
5.476e+004

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

OCDD

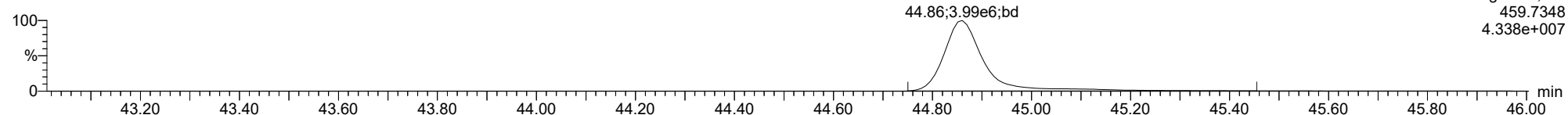
23071309



F5:Voltage SIR,EI+
457.7377
3.871e+007

OCDD

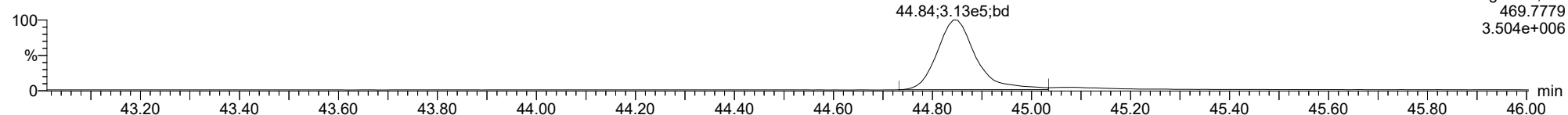
23071309



F5:Voltage SIR,EI+
459.7348
4.338e+007

13C-OCDD

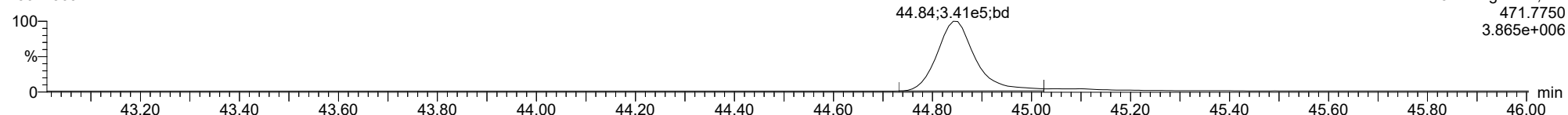
23071309



F5:Voltage SIR,EI+
469.7779
3.504e+006

13C-OCDD

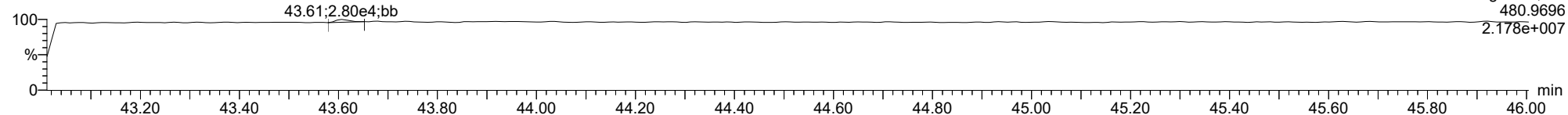
23071309



F5:Voltage SIR,EI+
471.7750
3.865e+006

FUNCTION5 PFK

23071309

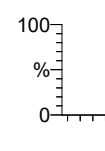


F5:Voltage SIR,EI+
480.9696
2.178e+007

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OCDF

23071309

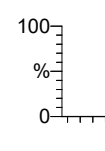


45.10;4.16e6;bb

F5:Voltage SIR,EI+
441.7428
5.076e+007

OCDF

23071309

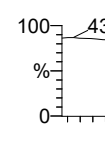


45.10;4.48e6;bb

F5:Voltage SIR,EI+
443.7399
5.398e+007

FUNCTION5 DCDPE

23071309



43.03

44.06

44.88;7.60e2;bd

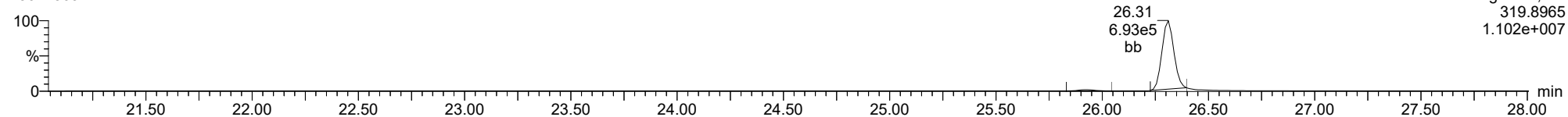
45.13;1.13e3;db

F5:Voltage SIR,EI+
513.6775
5.595e+004

ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

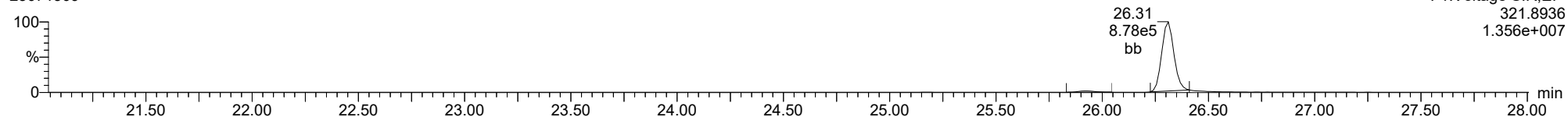
Total-tetradoxins

23071309



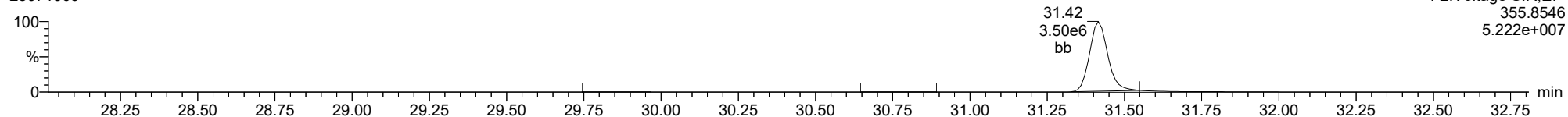
Total-tetradoxins

23071309



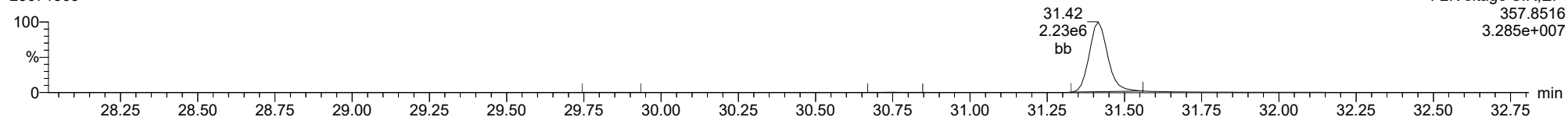
Total-pentadoxins

23071309



Total-pentadoxins

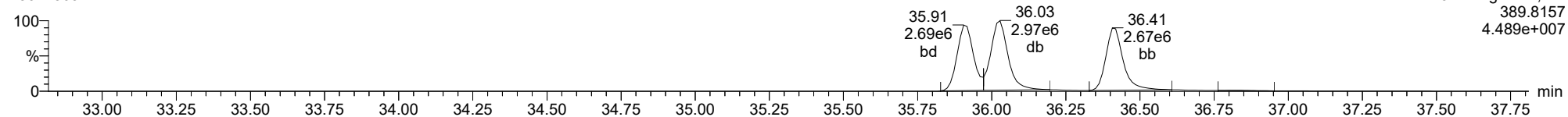
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ID: CS5CA, Name: 23071309, Date: 13-Jul-2023, Time: 17:21:38, Conditions: AUTOSPEC01, User: pk

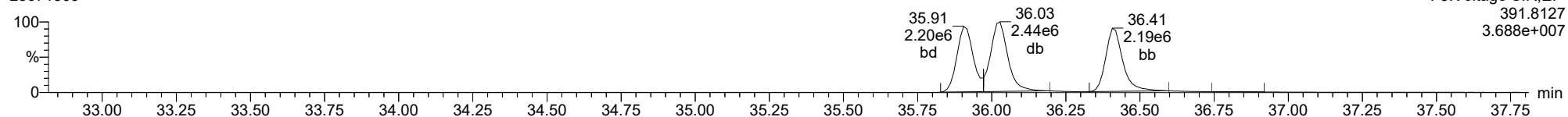
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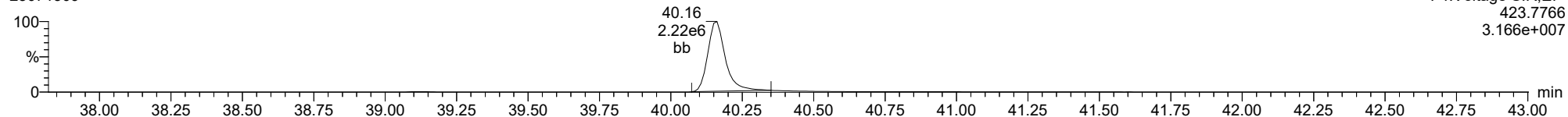
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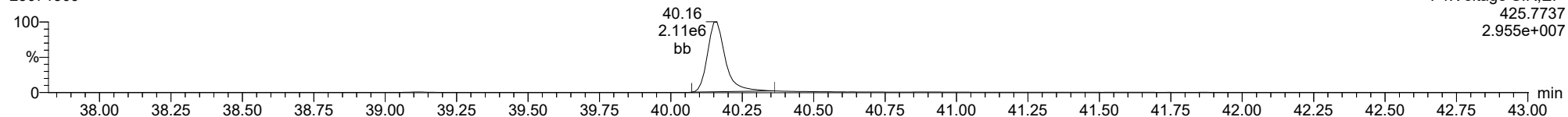
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23071309



Total-heptadioxins

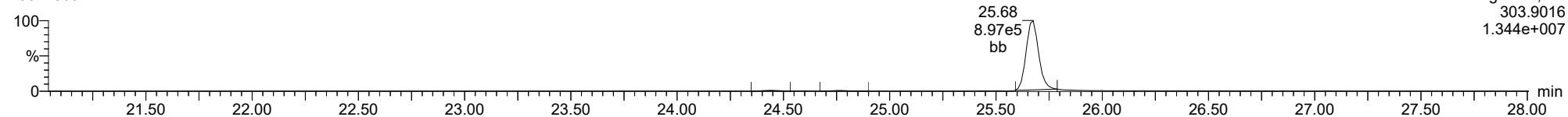
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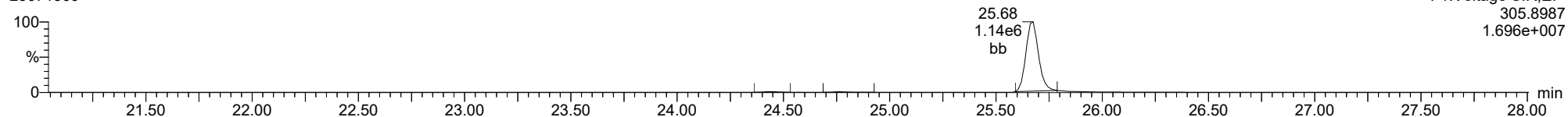
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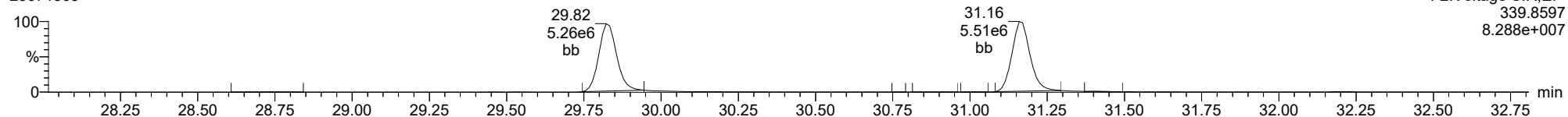
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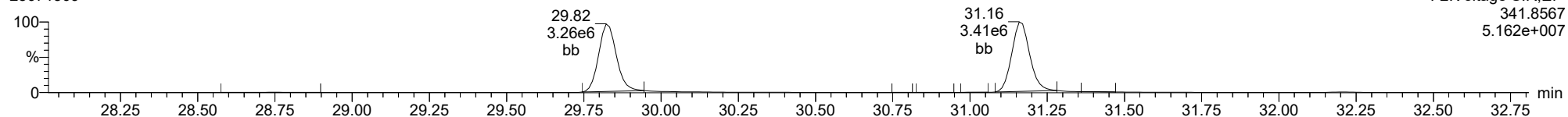
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Total-pentafurans

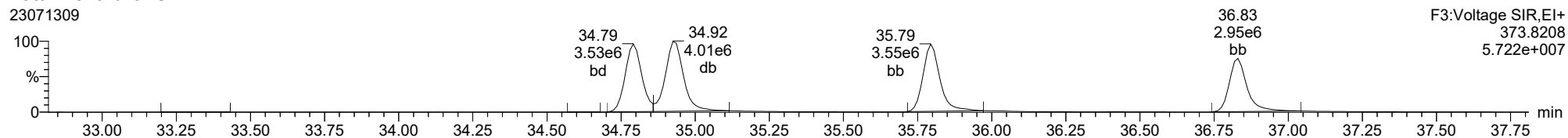
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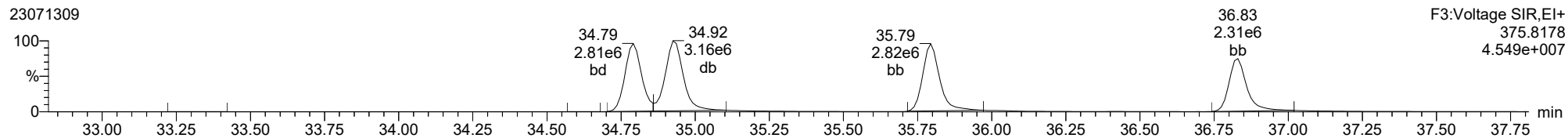
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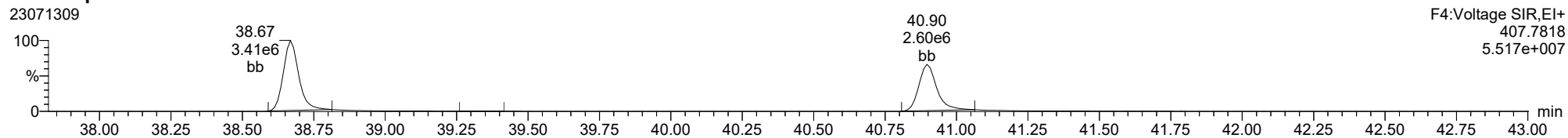
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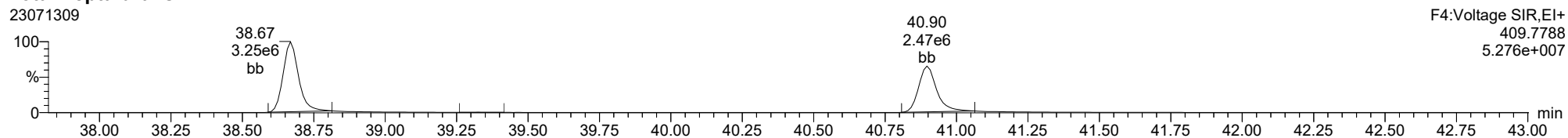
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23071309



Total-heptafurans

23071309



Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld
 Last Altered: Thursday, July 27, 2023 11:33:47 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:34:30 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
 Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, 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	25.676	1.001	9.002e4	1.142e5	0.951	0.788	0.770	1431	2029	1.31e6	1.68e6	919.0	826.2	NO	bb	bb	9.712
12378-PeCDF	29.822	1.000	4.965e5	3.208e5	0.963	1.548	1.550	3128	3549	7.11e6	4.59e6	2274.8	1292.7	NO	bb	bb	48.591
23478-PeCDF	31.159	1.000	5.249e5	3.272e5	1.072	1.604	1.550	3128	3549	7.44e6	4.69e6	2378.5	1321.2	NO	bb	bb	48.872
123478-HxCDF	34.791	1.001	3.331e5	2.629e5	1.142	1.267	1.240	4186	4974	4.97e6	3.97e6	1188.0	798.4	NO	bd	bd	48.756
234678-HxCDF	35.794	1.001	3.621e5	2.857e5	1.138	1.267	1.240	4186	4974	4.87e6	3.87e6	1163.8	778.3	NO	bd	bd	54.942
123678-HxCDF	34.925	1.000	4.139e5	3.065e5	1.100	1.350	1.240	4186	4974	5.32e6	4.17e6	1270.0	838.1	NO	dd	db	50.037
123789-HxCDF	36.830	1.001	2.824e5	2.130e5	1.066	1.326	1.240	4186	4974	3.66e6	2.86e6	873.1	575.3	NO	bd	bb	52.095
1234678-HpCDF	38.668	1.000	3.208e5	3.081e5	1.210	1.041	1.050	2658	4256	4.83e6	4.65e6	1815.6	1091.7	NO	bb	bb	52.256
1234789-HpCDF	40.897	1.001	2.409e5	2.488e5	1.213	0.968	1.050	2658	4256	3.07e6	2.91e6	1156.5	683.4	NO	bb	bd	51.304
OCDF	45.098	1.006	3.490e5	4.038e5	1.391	0.864	0.890	2115	1891	3.62e6	3.89e6	1713.5	2058.4	NO	bb	bd	88.559
2378-TCDD	26.311	1.001	6.908e4	8.486e4	1.197	0.814	0.770	1203	1056	1.04e6	1.26e6	863.8	1192.7	NO	bb	bb	9.843
12378-PeCDD	31.415	1.000	3.350e5	2.082e5	1.129	1.609	1.550	2822	2394	4.71e6	3.00e6	1668.1	1252.2	NO	bb	bb	52.080
123478-HxCDD	35.905	1.000	2.500e5	1.948e5	0.917	1.283	1.240	2546	3477	3.84e6	3.12e6	1508.8	896.3	NO	bd	bd	51.611
123678-HxCDD	36.028	1.001	2.944e5	2.484e5	0.944	1.185	1.240	2546	3477	3.89e6	3.17e6	1525.8	911.4	NO	db	db	49.964
123789-HxCDD	36.407	1.011	2.585e5	2.085e5	0.869	1.240	1.240	2546	3477	3.50e6	2.85e6	1374.0	819.8	NO	bd	bd	51.416
1234678-HpCDD	40.150	1.000	2.182e5	2.071e5	1.237	1.054	1.050	2671	3138	2.72e6	2.61e6	1019.2	832.5	NO	bd	bd	53.576
OCDD	44.851	1.000	3.076e5	3.471e5	1.212	0.886	0.890	2390	1932	3.28e6	3.73e6	1374.0	1931.9	NO	bd	bd	88.333
13C-2378-TCDF	25.661	1.007	9.802e5	1.230e6	1.920	0.797	0.770	1416	1457	1.37e7	1.72e7	9675.1	11769.3	NO	bb	bb	100.501
13C-12378-PeCDF	29.811	1.170	1.033e6	7.142e5	1.455	1.446	1.550	4505	2574	1.46e7	9.43e6	3249.0	3662.9	NO	bb	bb	104.763
13C-23478-PeCDF	31.148	1.223	9.922e5	6.341e5	1.363	1.565	1.550	4505	2574	1.40e7	9.01e6	3115.7	3502.2	NO	bb	bb	104.148
13C-123478-HxCDF	34.769	0.955	3.610e5	7.096e5	1.119	0.509	0.510	2896	2296	5.32e6	1.04e7	1835.7	4521.7	NO	bd	bd	97.710
13C-123678-HxCDF	34.914	0.959	4.625e5	8.469e5	1.343	0.546	0.510	2896	2296	5.81e6	1.11e7	2005.0	4815.2	NO	dd	db	99.556
13C-234678-HxCDF	35.771	0.983	3.531e5	6.831e5	1.113	0.517	0.510	2896	2296	4.92e6	9.50e6	1700.2	4136.7	NO	bb	bb	95.089
13C-123789-HxCDF	36.808	1.011	2.985e5	5.933e5	0.959	0.503	0.510	2896	2296	4.04e6	7.90e6	1396.3	3442.0	NO	bb	bb	94.993
13C-1234678-HpCDF	38.657	1.062	3.087e5	6.863e5	1.058	0.450	0.440	3213	4196	4.69e6	1.03e7	1460.0	2464.8	NO	bb	bb	95.979
13C-1234789-HpCDF	40.874	1.123	2.600e5	5.270e5	0.809	0.493	0.440	3213	4196	2.96e6	6.53e6	922.4	1555.6	NO	bd	bb	99.374
13C-1234-TCDD	25.478	0.000	5.063e5	6.395e5	1.000	0.792	0.770	1966	1657	7.75e6	9.72e6	3941.9	5867.3	NO	bb	bb	100.000
13C-2378-TCDD	26.283	1.032	5.720e5	7.350e5	1.104	0.778	0.770	1966	1657	8.12e6	1.05e7	4128.7	6310.6	NO	bb	bb	103.298
13C-12378-PeCDD	31.404	1.233	5.716e5	3.518e5	0.770	1.625	1.550	927	1118	7.76e6	4.87e6	8364.7	4355.3	NO	bb	bb	104.631
13C-123478-HxCDD	35.894	0.986	5.218e5	4.176e5	0.959	1.250	1.240	2226	2525	8.21e6	6.46e6	3687.3	2558.8	NO	bd	bd	100.005
13C-123678-HxCDD	36.006	0.989	6.401e5	5.107e5	1.120	1.253	1.240	2226	2525	8.54e6	6.84e6	3837.9	2709.4	NO	db	db	104.887
13C-1234678-HpCDD	40.139	1.103	3.343e5	3.075e5	0.640	1.087	1.050	1930	1740	4.54e6	4.19e6	2353.4	2406.7	NO	bb	bb	102.333
13C-OCDD	44.842	1.232	5.862e5	6.364e5	0.555	0.921	0.890	2702	4206	5.80e6	6.39e6	2148.5	1518.0	NO	bd	bd	224.784
13C-123789-HxCDD	36.396	0.000	5.399e5	4.396e5	1.000	1.228	1.240	2226	2525	7.81e6	6.35e6	3510.4	2513.7	NO	bb	bb	100.000
37CL-2378-TCDD	26.311	1.033	1.290e5		1.129			1630		1.88e6		1153.0			bb		9.968

Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld
 Last Altered: Thursday, July 27, 2023 11:33:47 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:34:30 Pacific Daylight Time

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, 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	22.173	0.864	1.118e5	1.437e5	1.201	0.778	0.770	1431	2029	1.73e6	2.23e6	1210.4	1100.9	NO	bb	bb	9.624
1289-TCDF	27.173	1.059	8.682e4	1.068e5	0.950	0.813	0.770	1431	2029	1.16e6	1.44e6	813.6	711.6	NO	db	bb	9.213
13468-PECDF	27.017	0.906	5.652e5	3.722e5	1.142	1.519	1.550	1290	998	8.33e6	5.48e6	6461.5	5496.7	NO	bb	bb	46.971
12389-PECDF	32.195	1.080	4.905e5	3.213e5	0.917	1.527	1.550	3128	3549	6.51e6	3.97e6	2081.5	1117.9	NO	bb	bd	50.685
123468-HXCDF	33.120	0.953	3.684e5	2.878e5	1.332	1.280	1.240	4186	4974	5.07e6	4.05e6	1210.8	813.4	NO	bb	bb	46.019
1368-TCDD	23.444	0.892	6.919e4	8.466e4	1.148	0.817	0.770	1203	1056	1.07e6	1.32e6	890.0	1247.0	NO	bb	bb	10.253
1289-TCDD	26.904	1.024	5.763e4	7.813e4	0.955	0.738	0.770	1203	1056	8.03e5	1.04e6	667.5	980.3	NO	bb	bd	10.877
12479-PECDD	28.708	0.914	5.880e5	3.674e5	2.043	1.600	1.550	2822	2394	5.44e6	3.45e6	1929.0	1441.2	NO	bb	bb	50.658
12389-PECDD	31.816	1.013	3.808e5	2.371e5	1.326	1.607	1.550	2822	2394	5.11e6	3.22e6	1810.3	1343.3	NO	bb	bb	50.482
124679-HXCDD	33.900	0.944	2.974e5	2.297e5	1.104	1.295	1.240	2546	3477	3.99e6	3.27e6	1568.4	940.9	NO	bd	bb	50.842
1234679-HPCDD	39.114	0.974	2.483e5	2.280e5	1.554	1.089	1.050	2671	3138	3.47e6	3.26e6	1298.6	1038.1	NO	bd	bb	47.751
Total-tetrafurans			2.887e5		1.034			1431		4.21e6							28.550
Total-penta1			5.652e5					1290		8.33e6							46.971
Total-pentafurans			1.597e6		0.984			3128		2.23e7							156.529
Total-hexafurans			1.760e6		1.155			4186		2.39e7							251.848
Total-heptafurans			5.617e5		1.211			2658		7.90e6							103.560
Total-Furans			5.121e6		1.119			1431		7.02e7							676.017
Total-tetradoxins			3.378e5		1.100			1203		4.59e6							52.849
Total-pentadoxins			1.306e6		1.499			2822		1.53e7							153.536
Total-hexadoxins			1.100e6		0.958			2546		1.52e7							203.833
Total-heptadoxins			4.665e5		1.396			2671		6.19e6							101.328
Total-Dioxins			3.519e6		1.203			1203		4.46e7							599.878
Total-TEQ			8.640e6					1203		1.15e8							1275.895
FUNCTION1 PFK			1.230e6					401145		1.81e7							
FUNCTION2 PFK			1.978e5					199852		6.56e6							0.000
FUNCTION3 PFK			4.236e5					328699		1.11e7							0.000
FUNCTION4 PFK			1.838e5					232428		5.03e6							
FUNCTION5 PFK			6.249e6					148727		4.74e7							
FUNCTION1 HXCD...			1.280e3					663		1.86e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			6.356e2					870		9.99e3							0.000
FUNCTION3 OCDPE			2.612e2					571		3.44e3							0.000
FUNCTION4 NCDPE			3.041e2					641		4.63e3							0.000
FUNCTION5 DCDPE			0.000e0					575		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld
 Last Altered: Thursday, July 27, 2023 11:33:47 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:34:30 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, 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	27.17	8.682e4	1.068e5	0.950	0.81	0.77	813.6	YES	NO	db	bb	9.213
2	2378-TCDF	25.68	9.002e4	1.142e5	0.951	0.79	0.77	919.0	YES	NO	bb	bb	9.712
3	1368-TCDF	22.17	1.118e5	1.437e5	1.201	0.78	0.77	1210.4	YES	NO	bb	bb	9.624

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.02	5.652e5	3.722e5	1.142	1.52	1.55	6461.5	YES	NO	bb	bb	46.971

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.16	5.249e5	3.272e5	1.072	1.60	1.55	2378.5	YES	NO	bb	bb	48.872
2	12378-PeCDF	29.82	4.965e5	3.208e5	0.963	1.55	1.55	2274.8	YES	NO	bb	bb	48.591
3	Total-pentafurans	28.67	8.490e4	5.418e4	0.984	1.57	1.55	389.4	YES	NO	bb	bb	8.381
4	12389-PECDF	32.20	4.905e5	3.213e5	0.917	1.53	1.55	2081.5	YES	NO	bb	bd	50.685

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.83	2.824e5	2.130e5	1.066	1.33	1.24	873.1	YES	NO	bd	bb	52.095
2	234678-HxCDF	35.79	3.621e5	2.857e5	1.138	1.27	1.24	1163.8	YES	NO	bd	bd	54.942
3	123678-HxCDF	34.92	4.139e5	3.065e5	1.100	1.35	1.24	1270.0	YES	NO	dd	db	50.037
4	123478-HxCDF	34.79	3.331e5	2.629e5	1.142	1.27	1.24	1188.0	YES	NO	bd	bd	48.756
5	123468-HxCDF	33.12	3.684e5	2.878e5	1.332	1.28	1.24	1210.8	YES	NO	bb	bb	46.019

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.67	3.208e5	3.081e5	1.210	1.04	1.05	1815.6	YES	NO	bb	bb	52.256
2	1234789-HpCDF	40.90	2.409e5	2.488e5	1.213	0.97	1.05	1156.5	YES	NO	bb	bd	51.304

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld
 Last Altered: Thursday, July 27, 2023 11:33:47 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:34:30 Pacific Daylight Time

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, 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	27.17	8.682e4	1.068e5	0.950	0.81	0.77	813.6	YES	NO	db	bb	9.213
2	2378-TCDF	25.68	9.002e4	1.142e5	0.951	0.79	0.77	919.0	YES	NO	bb	bb	9.712
3	1368-TCDF	22.17	1.118e5	1.437e5	1.201	0.78	0.77	1210.4	YES	NO	bb	bb	9.624
4	23478-PeCDF	31.16	5.249e5	3.272e5	1.072	1.60	1.55	2378.5	YES	NO	bb	bb	48.872
5	12378-PeCDF	29.82	4.965e5	3.208e5	0.963	1.55	1.55	2274.8	YES	NO	bb	bb	48.591
6	Total-pentafurans	28.67	8.490e4	5.418e4	0.984	1.57	1.55	389.4	YES	NO	bb	bb	8.381
7	12389-PECDF	32.20	4.905e5	3.213e5	0.917	1.53	1.55	2081.5	YES	NO	bb	bd	50.685
8	123789-HxCDF	36.83	2.824e5	2.130e5	1.066	1.33	1.24	873.1	YES	NO	bd	bb	52.095
9	234678-HxCDF	35.79	3.621e5	2.857e5	1.138	1.27	1.24	1163.8	YES	NO	bd	bd	54.942
10	123678-HxCDF	34.92	4.139e5	3.065e5	1.100	1.35	1.24	1270.0	YES	NO	dd	db	50.037
11	123478-HxCDF	34.79	3.331e5	2.629e5	1.142	1.27	1.24	1188.0	YES	NO	bd	bd	48.756
12	123468-HXCDF	33.12	3.684e5	2.878e5	1.332	1.28	1.24	1210.8	YES	NO	bb	bb	46.019
13	1234678-HpCDF	38.67	3.208e5	3.081e5	1.210	1.04	1.05	1815.6	YES	NO	bb	bb	52.256
14	1234789-HpCDF	40.90	2.409e5	2.488e5	1.213	0.97	1.05	1156.5	YES	NO	bb	bd	51.304
15	OCDF	45.10	3.490e5	4.038e5	1.391	0.86	0.89	1713.5	YES	NO	bb	bd	88.559
16	13468-PECDF	27.02	5.652e5	3.722e5	1.142	1.52	1.55	6461.5	YES	NO	bb	bb	46.971

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.49	3.418e4	4.185e4	1.100	0.82	0.77	444.2	YES	NO	bb	bb	5.288
2	Total-tetradoxins	24.93	7.519e2	9.373e2	1.100	0.80	0.77	9.2	YES	NO	bb	bb	0.118
3	Total-tetradoxins	24.63	2.946e3	3.771e3	1.100	0.78	0.77	22.4	YES	NO	bb	bb	0.467
4	1368-TCDD	23.44	6.919e4	8.466e4	1.148	0.82	0.77	890.0	YES	NO	bb	bb	10.253
5	1289-TCDD	26.90	5.763e4	7.813e4	0.955	0.74	0.77	667.5	YES	NO	bb	bd	10.877
6	2378-TCDD	26.31	6.908e4	8.486e4	1.197	0.81	0.77	863.8	YES	NO	bb	bb	9.843
7	Total-tetradoxins	25.99	1.040e5	1.260e5	1.100	0.83	0.77	917.8	YES	NO	bb	bb	16.003

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.71	5.880e5	3.674e5	2.043	1.60	1.55	1929.0	YES	NO	bb	bb	50.658
2	12389-PECDD	31.82	3.808e5	2.371e5	1.326	1.61	1.55	1810.3	YES	NO	bb	bb	50.482
3	12378-PeCDD	31.42	3.350e5	2.082e5	1.129	1.61	1.55	1668.1	YES	NO	bb	bb	52.080
4	Total-pentadoxins	30.74	1.272e3	7.982e2	1.499	1.59	1.55	6.3	YES	NO	bb	bb	0.150
5	Total-pentadoxins	29.82	1.327e3	9.677e2	1.499	1.37	1.55	6.3	YES	NO	bb	bb	0.166

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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	36.41	2.585e5	2.085e5	0.869	1.24	1.24	1374.0	YES	NO	bd	bd	51.416
2	123678-HxCDD	36.03	2.944e5	2.484e5	0.944	1.19	1.24	1525.8	YES	NO	db	db	49.964
3	123478-HxCDD	35.91	2.500e5	1.948e5	0.917	1.28	1.24	1508.8	YES	NO	bd	bd	51.611
4	124679-HxCDD	33.90	2.974e5	2.297e5	1.104	1.30	1.24	1568.4	YES	NO	bd	bb	50.842

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.11	2.483e5	2.280e5	1.554	1.09	1.05	1298.6	YES	NO	bd	bb	47.751
2	1234678-HpCDD	40.15	2.182e5	2.071e5	1.237	1.05	1.05	1019.2	YES	NO	bd	bd	53.576

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.49	3.418e4	4.185e4	1.100	0.82	0.77	444.2	YES	NO	bb	bb	5.288
2	Total-tetradoxins	24.93	7.519e2	9.373e2	1.100	0.80	0.77	9.2	YES	NO	bb	bb	0.118
3	Total-tetradoxins	24.63	2.946e3	3.771e3	1.100	0.78	0.77	22.4	YES	NO	bb	bb	0.467
4	1368-TCDD	23.44	6.919e4	8.466e4	1.148	0.82	0.77	890.0	YES	NO	bb	bb	10.253
5	12479-PECDD	28.71	5.880e5	3.674e5	2.043	1.60	1.55	1929.0	YES	NO	bb	bb	50.658
6	1289-TCDD	26.90	5.763e4	7.813e4	0.955	0.74	0.77	667.5	YES	NO	bb	bd	10.877
7	2378-TCDD	26.31	6.908e4	8.486e4	1.197	0.81	0.77	863.8	YES	NO	bb	bb	9.843
8	Total-tetradoxins	25.99	1.040e5	1.260e5	1.100	0.83	0.77	917.8	YES	NO	bb	bb	16.003
9	12389-PECDD	31.82	3.808e5	2.371e5	1.326	1.61	1.55	1810.3	YES	NO	bb	bb	50.482
10	12378-PeCDD	31.42	3.350e5	2.082e5	1.129	1.61	1.55	1668.1	YES	NO	bb	bb	52.080
11	Total-pentadoxins	30.74	1.272e3	7.982e2	1.499	1.59	1.55	6.3	YES	NO	bb	bb	0.150
12	Total-pentadoxins	29.82	1.327e3	9.677e2	1.499	1.37	1.55	6.3	YES	NO	bb	bb	0.166
13	123789-HxCDD	36.41	2.585e5	2.085e5	0.869	1.24	1.24	1374.0	YES	NO	bd	bd	51.416
14	123678-HxCDD	36.03	2.944e5	2.484e5	0.944	1.19	1.24	1525.8	YES	NO	db	db	49.964
15	123478-HxCDD	35.91	2.500e5	1.948e5	0.917	1.28	1.24	1508.8	YES	NO	bd	bd	51.611
16	124679-HxCDD	33.90	2.974e5	2.297e5	1.104	1.30	1.24	1568.4	YES	NO	bd	bb	50.842
17	1234679-HPCDD	39.11	2.483e5	2.280e5	1.554	1.09	1.05	1298.6	YES	NO	bd	bb	47.751
18	1234678-HpCDD	40.15	2.182e5	2.071e5	1.237	1.05	1.05	1019.2	YES	NO	bd	bd	53.576
19	OCDD	44.85	3.076e5	3.471e5	1.212	0.89	0.89	1374.0	YES	NO	bd	bd	88.333

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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	27.17	8.682e4	1.068e5	0.950	0.81	0.77	813.6	YES	NO	db	bb	9.213
2	2378-TCDF	25.68	9.002e4	1.142e5	0.951	0.79	0.77	919.0	YES	NO	bb	bb	9.712
3	1368-TCDF	22.17	1.118e5	1.437e5	1.201	0.78	0.77	1210.4	YES	NO	bb	bb	9.624
4	23478-PeCDF	31.16	5.249e5	3.272e5	1.072	1.60	1.55	2378.5	YES	NO	bb	bb	48.872
5	12378-PeCDF	29.82	4.965e5	3.208e5	0.963	1.55	1.55	2274.8	YES	NO	bb	bb	48.591
6	Total-pentafurans	28.67	8.490e4	5.418e4	0.984	1.57	1.55	389.4	YES	NO	bb	bb	8.381
7	12389-PECDF	32.20	4.905e5	3.213e5	0.917	1.53	1.55	2081.5	YES	NO	bb	bd	50.685
8	123789-HxCDF	36.83	2.824e5	2.130e5	1.066	1.33	1.24	873.1	YES	NO	bd	bb	52.095
9	234678-HxCDF	35.79	3.621e5	2.857e5	1.138	1.27	1.24	1163.8	YES	NO	bd	bd	54.942
10	123678-HxCDF	34.92	4.139e5	3.065e5	1.100	1.35	1.24	1270.0	YES	NO	dd	db	50.037
11	123478-HxCDF	34.79	3.331e5	2.629e5	1.142	1.27	1.24	1188.0	YES	NO	bd	bd	48.756
12	123468-HXCDF	33.12	3.684e5	2.878e5	1.332	1.28	1.24	1210.8	YES	NO	bb	bb	46.019
13	1234678-HpCDF	38.67	3.208e5	3.081e5	1.210	1.04	1.05	1815.6	YES	NO	bb	bb	52.256
14	1234789-HpCDF	40.90	2.409e5	2.488e5	1.213	0.97	1.05	1156.5	YES	NO	bb	bd	51.304
15	OCDF	45.10	3.490e5	4.038e5	1.391	0.86	0.89	1713.5	YES	NO	bb	bd	88.559
16	13468-PECDF	27.02	5.652e5	3.722e5	1.142	1.52	1.55	6461.5	YES	NO	bb	bb	46.971
17	Total-tetradiioxins	25.49	3.418e4	4.185e4	1.100	0.82	0.77	444.2	YES	NO	bb	bb	5.288
18	Total-tetradiioxins	24.93	7.519e2	9.373e2	1.100	0.80	0.77	9.2	YES	NO	bb	bb	0.118
19	Total-tetradiioxins	24.63	2.946e3	3.771e3	1.100	0.78	0.77	22.4	YES	NO	bb	bb	0.467
20	1368-TCDD	23.44	6.919e4	8.466e4	1.148	0.82	0.77	890.0	YES	NO	bb	bb	10.253
21	12479-PECDD	28.71	5.880e5	3.674e5	2.043	1.60	1.55	1929.0	YES	NO	bb	bb	50.658
22	1289-TCDD	26.90	5.763e4	7.813e4	0.955	0.74	0.77	667.5	YES	NO	bb	bd	10.877
23	2378-TCDD	26.31	6.908e4	8.486e4	1.197	0.81	0.77	863.8	YES	NO	bb	bb	9.843
24	Total-tetradiioxins	25.99	1.040e5	1.260e5	1.100	0.83	0.77	917.8	YES	NO	bb	bb	16.003
25	12389-PECDD	31.82	3.808e5	2.371e5	1.326	1.61	1.55	1810.3	YES	NO	bb	bb	50.482
26	12378-PeCDD	31.42	3.350e5	2.082e5	1.129	1.61	1.55	1668.1	YES	NO	bb	bb	52.080
27	Total-pentadiioxins	30.74	1.272e3	7.982e2	1.499	1.59	1.55	6.3	YES	NO	bb	bb	0.150
28	Total-pentadiioxins	29.82	1.327e3	9.677e2	1.499	1.37	1.55	6.3	YES	NO	bb	bb	0.166
29	123789-HxCDD	36.41	2.585e5	2.085e5	0.869	1.24	1.24	1374.0	YES	NO	bd	bd	51.416
30	123678-HxCDD	36.03	2.944e5	2.484e5	0.944	1.19	1.24	1525.8	YES	NO	db	db	49.964
31	123478-HxCDD	35.91	2.500e5	1.948e5	0.917	1.28	1.24	1508.8	YES	NO	bd	bd	51.611
32	124679-HXCDD	33.90	2.974e5	2.297e5	1.104	1.30	1.24	1568.4	YES	NO	bd	bb	50.842
33	1234679-HPCDD	39.11	2.483e5	2.280e5	1.554	1.09	1.05	1298.6	YES	NO	bd	bb	47.751
34	1234678-HpCDD	40.15	2.182e5	2.071e5	1.237	1.05	1.05	1019.2	YES	NO	bd	bd	53.576
35	OCDD	44.85	3.076e5	3.471e5	1.212	0.89	0.89	1374.0	YES	NO	bd	bd	88.333

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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	24.45	1.815e4					1.2	NO		bb		
2	FUNCTION1 PFK	23.51	1.578e4					1.2	NO		bb		
3	FUNCTION1 PFK	23.37	9.052e3					0.8	NO		bb		
4	FUNCTION1 PFK	22.71	2.131e4					0.9	NO		bb		
5	FUNCTION1 PFK	22.33	2.240e4					1.0	NO		bb		
6	FUNCTION1 PFK	21.79	7.361e3					0.8	NO		bb		
7	FUNCTION1 PFK	21.75	2.417e3					0.4	NO		bb		
8	FUNCTION1 PFK	21.14	2.908e4					1.7	NO		bb		
9	FUNCTION1 PFK	27.62	1.824e4					0.7	NO		bb		
10	FUNCTION1 PFK	27.48	2.888e3					0.5	NO		bb		
11	FUNCTION1 PFK	27.31	1.207e5					3.0	YES		bb		
12	FUNCTION1 PFK	27.12	3.735e4					1.6	NO		bb		
13	FUNCTION1 PFK	26.73	9.967e4					3.9	YES		bb		
14	FUNCTION1 PFK	26.66	1.112e4					1.3	NO		db		
15	FUNCTION1 PFK	26.48	1.363e5					3.4	YES		bd		
16	FUNCTION1 PFK	26.01	6.363e4					2.6	NO		bb		
17	FUNCTION1 PFK	25.96	1.932e4					1.4	NO		db		
18	FUNCTION1 PFK	25.75	2.922e5					3.9	YES		dd		
19	FUNCTION1 PFK	25.60	1.174e5					5.0	YES		bd		
20	FUNCTION1 PFK	25.55	1.821e4					2.2	NO		db		
21	FUNCTION1 PFK	25.51	7.550e4					2.6	NO		dd		
22	FUNCTION1 PFK	25.42	2.495e4					1.8	NO		dd		
23	FUNCTION1 PFK	25.29	5.342e4					1.9	NO		bd		
24	FUNCTION1 PFK	25.15	1.401e4					1.1	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	30.94	3.519e3					1.0	NO		bb		0.000
2	FUNCTION2 PFK	30.84	3.400e3					0.8	NO		bb		0.000
3	FUNCTION2 PFK	30.58	3.658e3					0.9	NO		bb		0.000
4	FUNCTION2 PFK	30.47	4.958e3					0.8	NO		bb		0.000
5	FUNCTION2 PFK	30.38	9.118e3					1.2	NO		bb		0.000
6	FUNCTION2 PFK	30.18	5.127e3					1.0	NO		bb		0.000
7	FUNCTION2 PFK	29.72	1.509e3					0.7	NO		bb		0.000
8	FUNCTION2 PFK	29.68	1.253e4					2.0	NO		bb		0.000
9	FUNCTION2 PFK	29.47	9.492e3					1.8	NO		bb		0.000
10	FUNCTION2 PFK	29.41	4.940e3					1.1	NO		db		0.000
11	FUNCTION2 PFK	29.37	7.113e3					1.4	NO		bd		0.000
12	FUNCTION2 PFK	29.04	7.526e3					1.4	NO		bb		0.000
13	FUNCTION2 PFK	28.90	3.746e3					0.8	NO		bb		0.000
14	FUNCTION2 PFK	28.64	1.379e4					1.6	NO		bb		0.000
15	FUNCTION2 PFK	28.44	6.404e3					1.2	NO		bb		0.000
16	FUNCTION2 PFK	32.74	6.414e3					1.4	NO		bb		0.000
17	FUNCTION2 PFK	32.41	2.873e4					2.4	NO		db		0.000
18	FUNCTION2 PFK	32.32	1.224e4					2.0	NO		bd		0.000
19	FUNCTION2 PFK	32.16	1.258e3					0.6	NO		bb		0.000
20	FUNCTION2 PFK	31.97	9.473e3					2.1	NO		bb		0.000
21	FUNCTION2 PFK	31.65	1.100e4					1.8	NO		bb		0.000
22	FUNCTION2 PFK	31.30	4.943e3					1.1	NO		db		0.000
23	FUNCTION2 PFK	31.25	1.797e4					1.5	NO		bd		0.000
24	FUNCTION2 PFK	31.07	6.666e3					1.5	NO		bb		0.000
25	FUNCTION2 PFK	30.98	2.309e3					0.7	NO		bb		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.35	2.856e4					2.0	NO		dd		0.000
2	FUNCTION3 PFK	33.30	2.441e4					2.0	NO		dd		0.000
3	FUNCTION3 PFK	33.24	1.934e4					2.2	NO		dd		0.000
4	FUNCTION3 PFK	33.19	2.157e4					1.8	NO		bd		0.000
5	FUNCTION3 PFK	32.94	2.932e4					1.9	NO		bb		0.000
6	FUNCTION3 PFK	36.73	1.541e3					0.4	NO		bb		0.000
7	FUNCTION3 PFK	36.67	9.212e3					0.8	NO		bb		0.000
8	FUNCTION3 PFK	36.43	2.018e4					1.5	NO		bb		0.000
9	FUNCTION3 PFK	36.08	1.529e4					1.6	NO		bb		0.000
10	FUNCTION3 PFK	35.93	4.016e4					1.7	NO		bb		0.000
11	FUNCTION3 PFK	35.75	5.319e3					1.0	NO		bb		0.000
12	FUNCTION3 PFK	35.70	2.373e3					0.6	NO		bb		0.000
13	FUNCTION3 PFK	35.44	1.231e4					1.4	NO		bb		0.000
14	FUNCTION3 PFK	35.08	1.642e4					1.5	NO		bb		0.000
15	FUNCTION3 PFK	34.86	3.018e4					2.1	NO		bb		0.000
16	FUNCTION3 PFK	34.61	5.677e3					0.9	NO		bb		0.000
17	FUNCTION3 PFK	33.92	2.601e4					1.6	NO		bb		0.000
18	FUNCTION3 PFK	33.86	1.382e4					1.2	NO		bb		0.000
19	FUNCTION3 PFK	33.63	2.762e4					2.0	NO		db		0.000
20	FUNCTION3 PFK	33.52	1.932e4					1.4	NO		dd		0.000
21	FUNCTION3 PFK	33.43	3.667e4					2.1	NO		dd		0.000
22	FUNCTION3 PFK	37.71	6.056e3					0.8	NO		bb		0.000
23	FUNCTION3 PFK	36.89	1.227e4					1.3	NO		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.35	1.387e4					1.4	NO		bb		
2	FUNCTION4 PFK	40.31	1.536e3					0.6	NO		bb		
3	FUNCTION4 PFK	40.21	1.249e3					0.5	NO		bb		
4	FUNCTION4 PFK	40.06	1.241e4					1.5	NO		bb		
5	FUNCTION4 PFK	39.59	1.045e4					1.0	NO		bb		
6	FUNCTION4 PFK	39.48	1.104e3					0.4	NO		bb		
7	FUNCTION4 PFK	39.17	3.647e3					0.7	NO		bb		
8	FUNCTION4 PFK	38.58	7.087e3					1.2	NO		bb		
9	FUNCTION4 PFK	38.38	4.804e3					1.0	NO		bb		
10	FUNCTION4 PFK	38.31	1.971e3					0.6	NO		bb		
11	FUNCTION4 PFK	38.16	1.449e4					1.9	NO		db		
12	FUNCTION4 PFK	38.10	5.240e4					2.2	NO		dd		
13	FUNCTION4 PFK	37.99	1.914e4					2.4	NO		bd		
14	FUNCTION4 PFK	42.53	6.556e3					1.3	NO		bb		
15	FUNCTION4 PFK	41.83	6.686e3					1.1	NO		bb		
16	FUNCTION4 PFK	41.75	1.162e3					0.5	NO		bb		
17	FUNCTION4 PFK	41.31	1.245e4					1.6	NO		db		
18	FUNCTION4 PFK	41.25	6.610e3					1.1	NO		bd		
19	FUNCTION4 PFK	41.02	6.201e3					0.9	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld
 Last Altered: Thursday, July 27, 2023 11:33:47 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:34:30 Pacific Daylight Time

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, 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	44.61	2.869e3					1.1	NO		bd		
2	FUNCTION5 PFK	44.16	2.734e4					5.0	YES		db		
3	FUNCTION5 PFK	44.07	2.496e5					9.9	YES		dd		
4	FUNCTION5 PFK	43.92	1.588e5					19.0	YES		dd		
5	FUNCTION5 PFK	43.65	2.731e6					34.2	YES		dd		
6	FUNCTION5 PFK	43.30	7.784e5					54.0	YES		dd		
7	FUNCTION5 PFK	43.22	5.423e5					58.8	YES		dd		
8	FUNCTION5 PFK	43.20	1.260e6					58.3	YES		dd		
9	FUNCTION5 PFK	43.05	4.487e5					66.1	YES		bd		
10	FUNCTION5 PFK	45.98	8.712e2					0.6	NO		bb		
11	FUNCTION5 PFK	45.94	1.923e3					0.8	NO		bb		
12	FUNCTION5 PFK	45.78	1.003e4					2.1	NO		bb		
13	FUNCTION5 PFK	45.48	6.856e2					0.5	NO		bb		
14	FUNCTION5 PFK	45.10	6.070e3					1.4	NO		db		
15	FUNCTION5 PFK	45.01	1.260e4					1.4	NO		bd		
16	FUNCTION5 PFK	44.85	5.263e3					1.2	NO		db		
17	FUNCTION5 PFK	44.80	3.681e3					1.2	NO		dd		
18	FUNCTION5 PFK	44.76	3.023e3					1.0	NO		bd		
19	FUNCTION5 PFK	44.64	5.709e3					1.8	NO		db		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	23.66	7.076e1					1.9	NO		db		0.000
2	FUNCTION1 HXCD...	23.49	1.864e2					3.6	YES		bd		0.000
3	FUNCTION1 HXCD...	23.18	1.296e2					2.4	NO		bb		0.000
4	FUNCTION1 HXCD...	22.96	1.703e2					2.8	NO		db		0.000
5	FUNCTION1 HXCD...	22.85	8.827e1					2.0	NO		bd		0.000
6	FUNCTION1 HXCD...	27.55	9.758e1					2.8	NO		bb		0.000
7	FUNCTION1 HXCD...	27.29	7.070e1					1.8	NO		bb		0.000
8	FUNCTION1 HXCD...	27.03	2.180e2					4.3	YES		bb		0.000
9	FUNCTION1 HXCD...	26.28	8.913e1					2.1	NO		bb		0.000
10	FUNCTION1 HXCD...	24.98	7.311e1					1.3	NO		bb		0.000
11	FUNCTION1 HXCD...	24.28	8.656e1					3.0	NO		bb		0.000

Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld

Last Altered: Thursday, July 27, 2023 11:33:47 Pacific Daylight Time

Printed: Thursday, July 27, 2023 11:34:30 Pacific Daylight Time

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

ETHERS2

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

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.05	7.784e1					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	31.37	2.126e2					2.6	NO		bb		0.000
3	FUNCTION2 HPCD...	31.18	8.338e1					1.4	NO		bb		0.000
4	FUNCTION2 HPCD...	31.01	2.618e2					5.7	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	36.01	2.612e2					6.0	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	39.95	7.730e1					2.0	NO		bb		0.000
2	FUNCTION4 NCDPE	38.28	1.146e2					2.5	NO		bb		0.000
3	FUNCTION4 NCDPE	40.14	1.122e2					2.8	NO		bb		0.000

ETHERS6

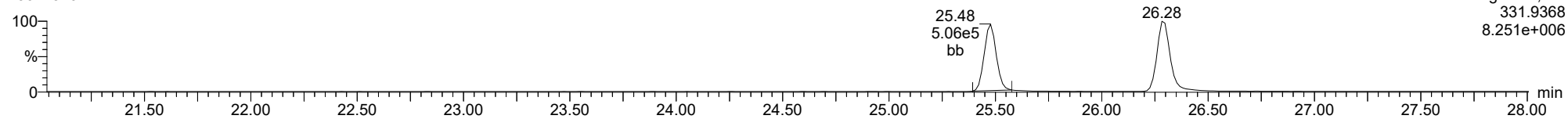
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

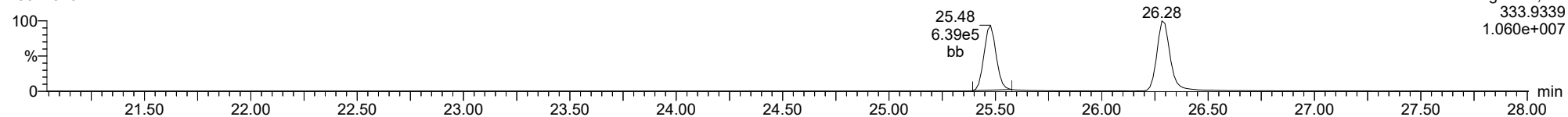
13C-1234-TCDD

23071310



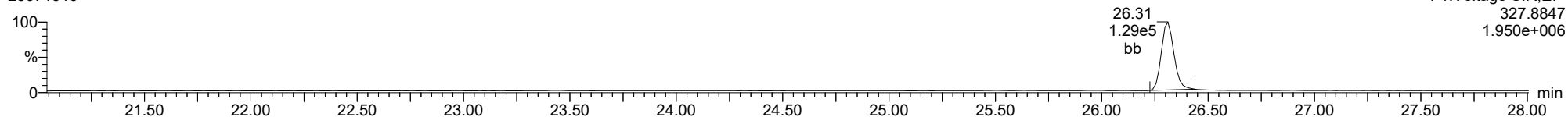
13C-1234-TCDD

23071310



37CL-2378-TCDD

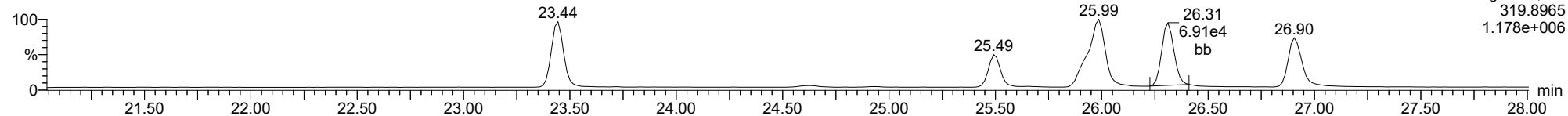
23071310



ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

2378-TCDD

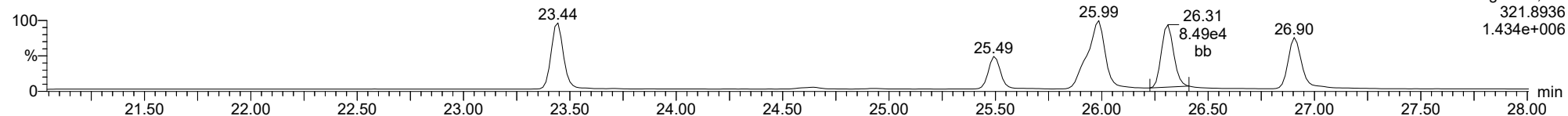
23071310



F1:Voltage SIR,EI+
319.8965
1.178e+006

2378-TCDD

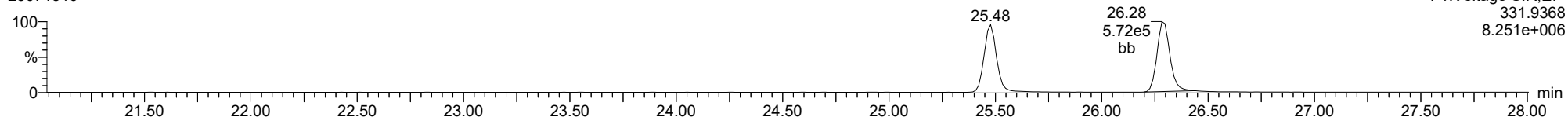
23071310



F1:Voltage SIR,EI+
321.8936
1.434e+006

13C-2378-TCDD

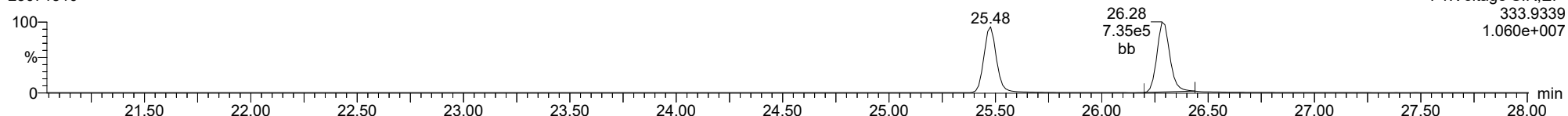
23071310



F1:Voltage SIR,EI+
331.9368
8.251e+006

13C-2378-TCDD

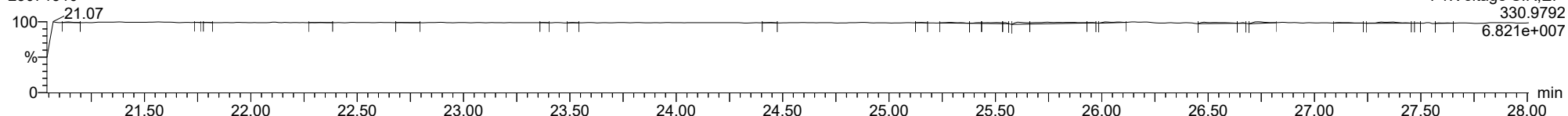
23071310



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

FUNCTION1 PFK

23071310

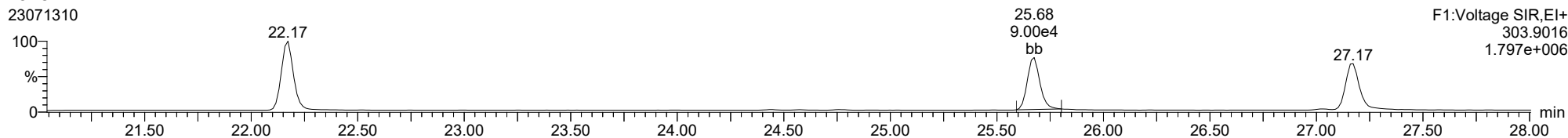


F1:Voltage SIR,EI+
330.9792
6.821e+007

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

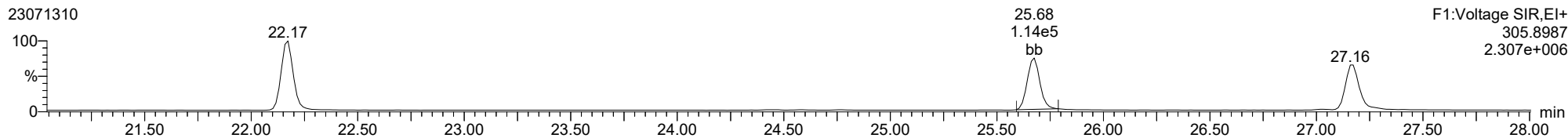
2378-TCDF

23071310



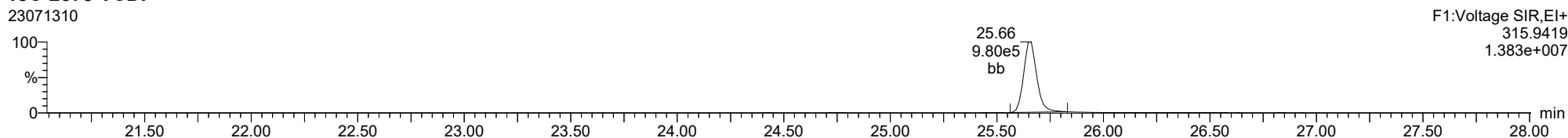
2378-TCDF

23071310



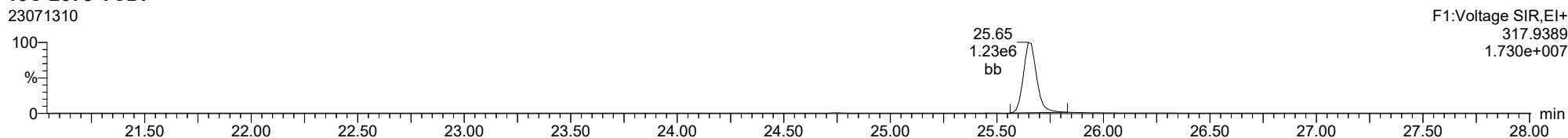
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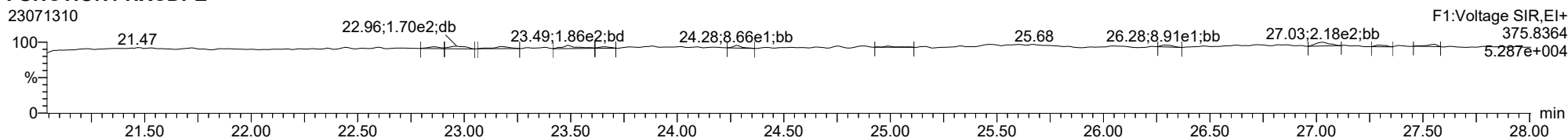
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23071310



FUNCTION1 HXCDPE

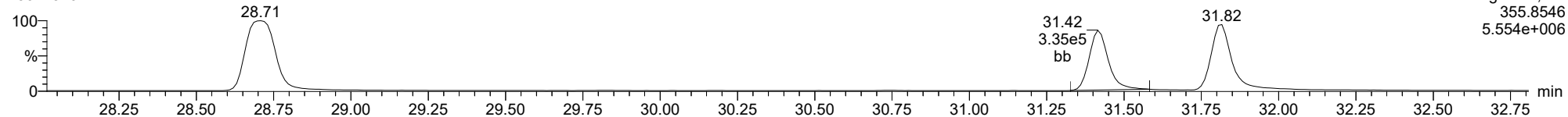
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

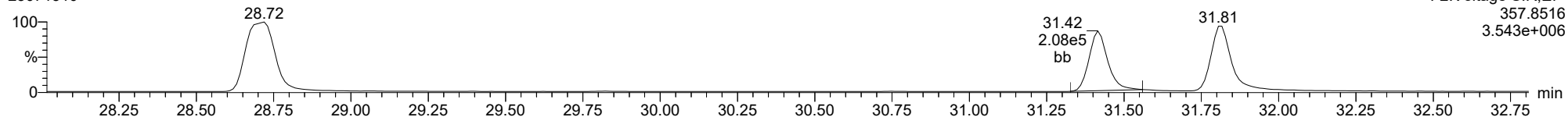
23071310



F2:Voltage SIR,EI+
355.8546
5.554e+006

12378-PeCDD

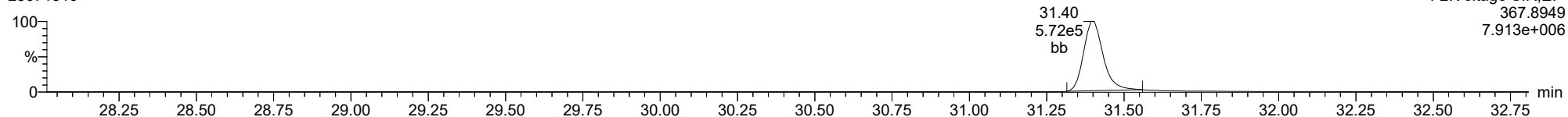
23071310



F2:Voltage SIR,EI+
357.8516
3.543e+006

13C-12378-PeCDD

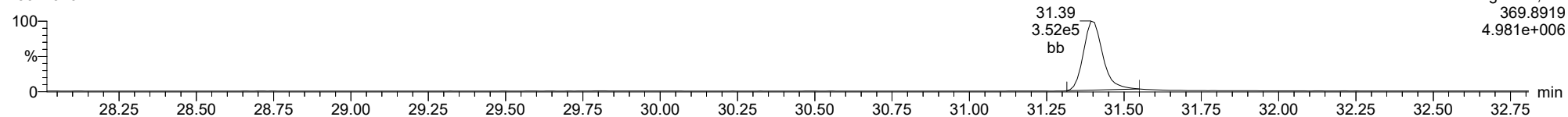
23071310



F2:Voltage SIR,EI+
367.8949
7.913e+006

13C-12378-PeCDD

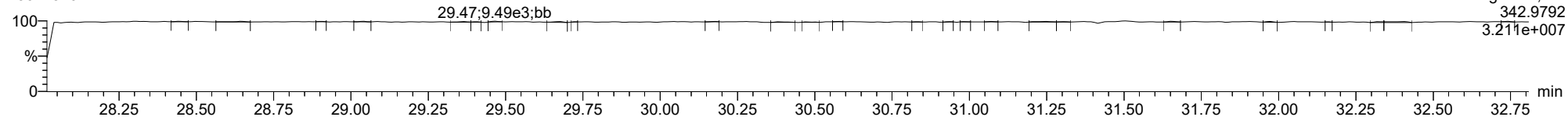
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F2:Voltage SIR,EI+
369.8919
4.981e+006

FUNCTION2 PFK

23071310

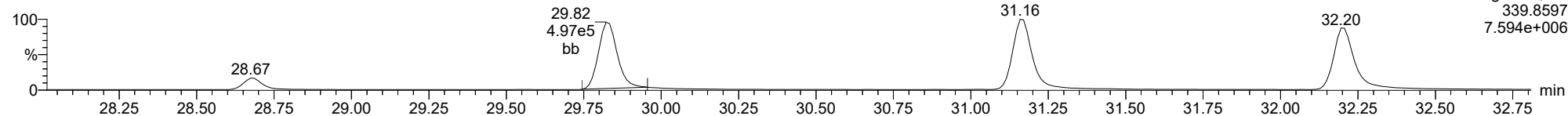


F2:Voltage SIR,EI+
342.9792
3.211e+007

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

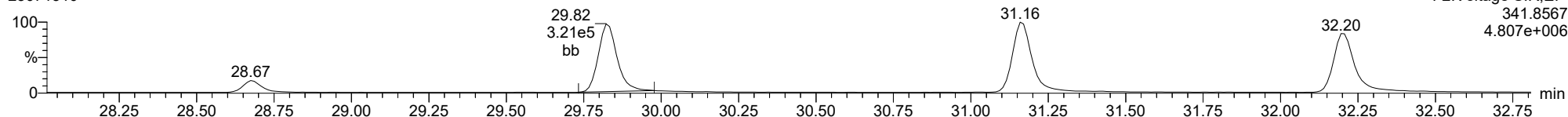
12378-PeCDF

23071310



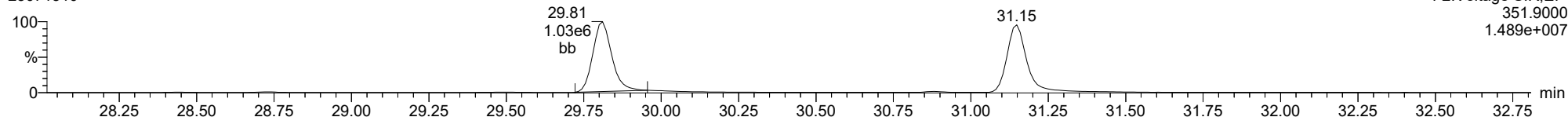
12378-PeCDF

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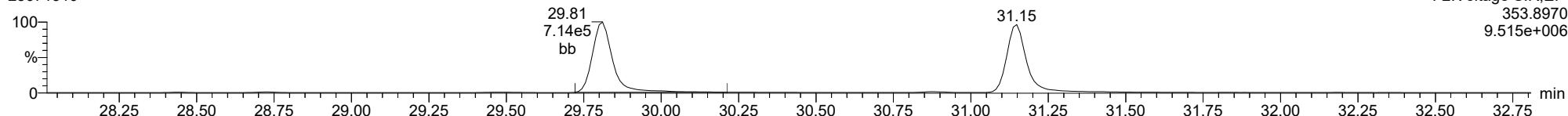
13C-12378-PeCDF

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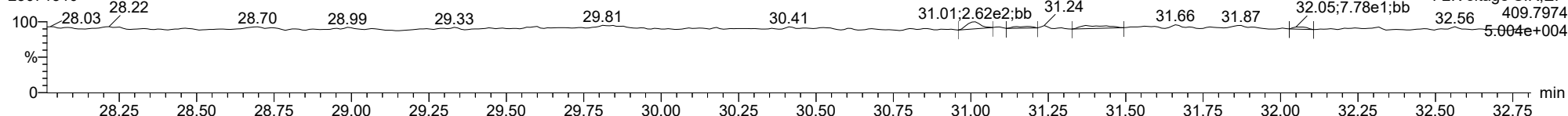
13C-12378-PeCDF

23071310



FUNCTION2 HPCDPE

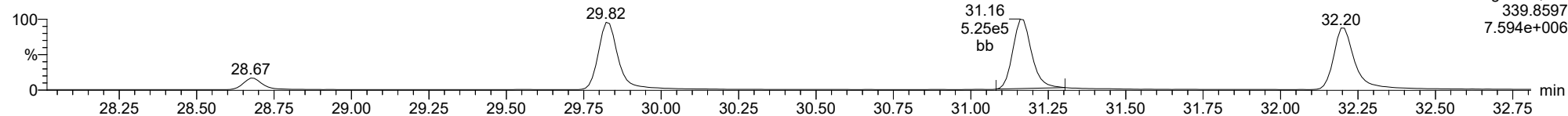
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

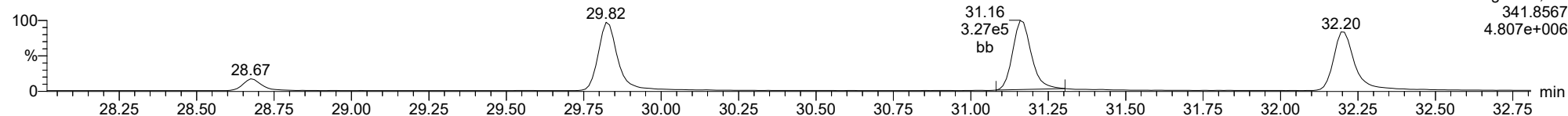
23478-PeCDF

23071310



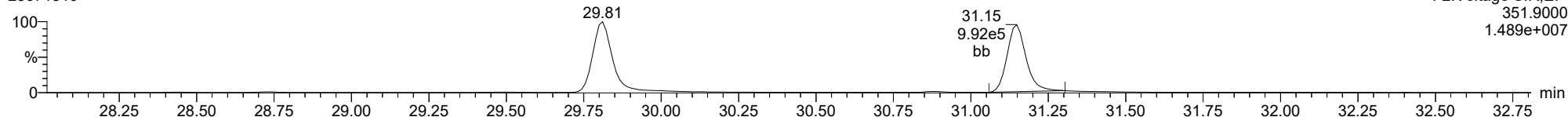
23478-PeCDF

23071310



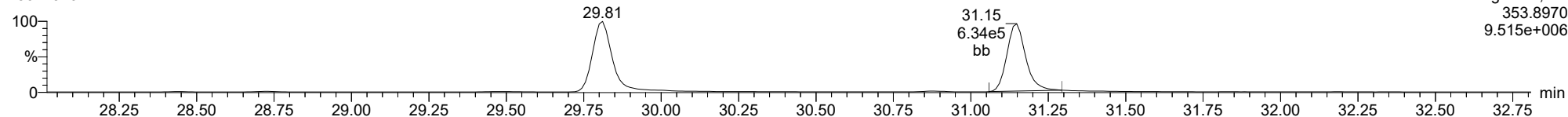
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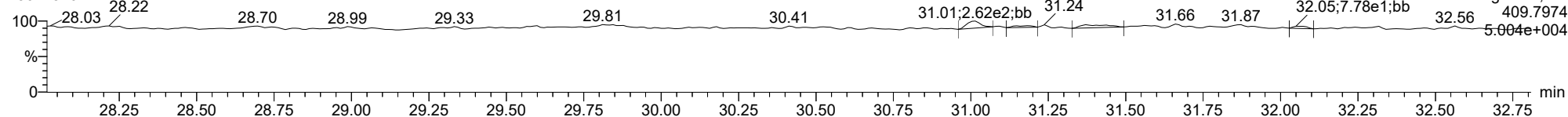
13C-23478-PeCDF

23071310



FUNCTION2 HPCDPE

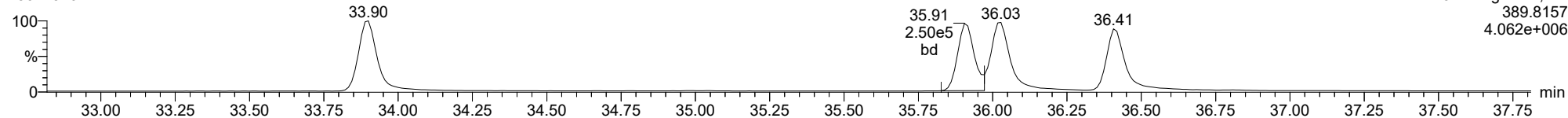
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

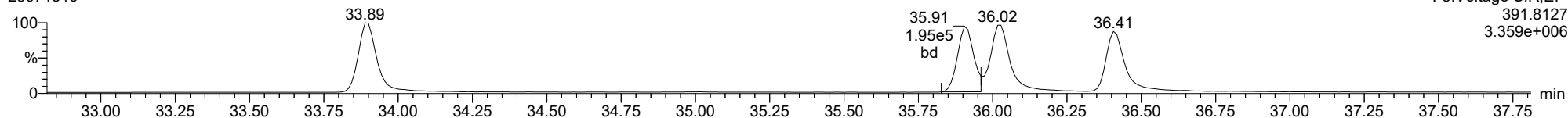
123478-HxCDD

23071310



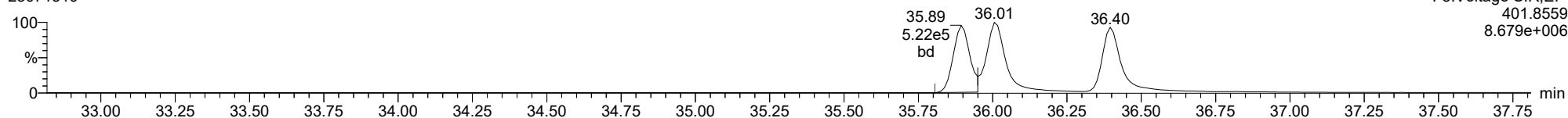
123478-HxCDD

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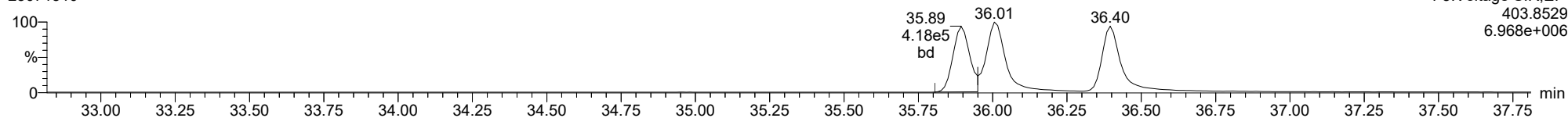
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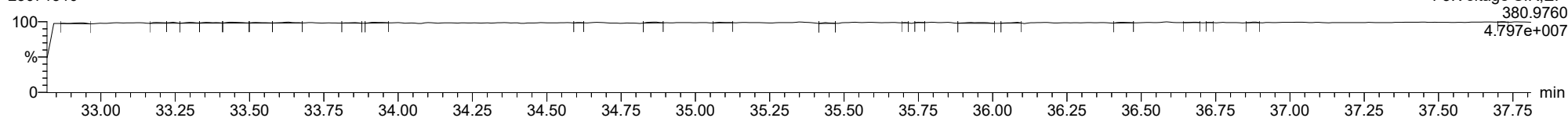
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23071310



FUNCTION3 PFK

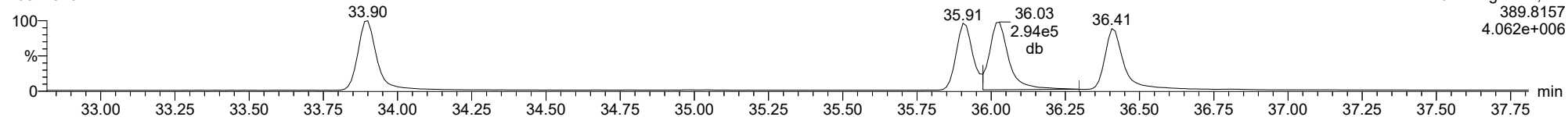
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

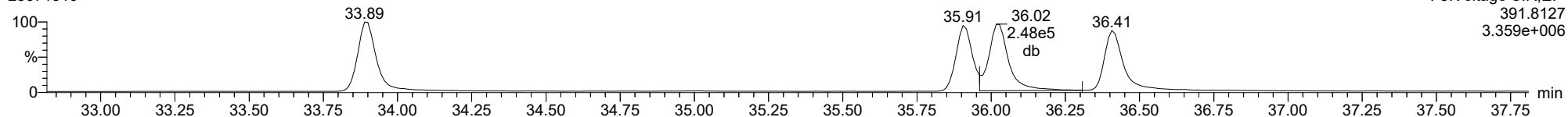
123678-HxCDD

23071310



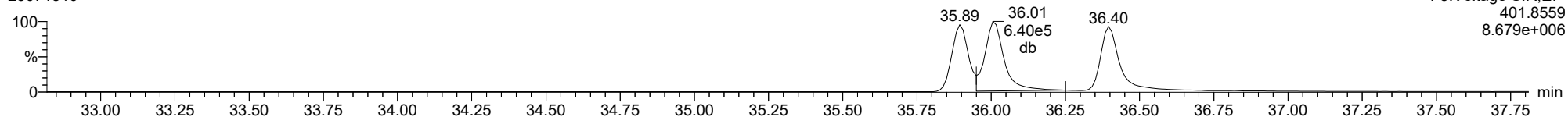
123678-HxCDD

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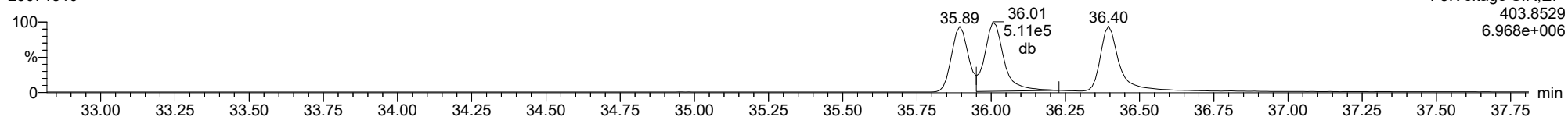
13C-123678-HxCDD

23071310



13C-123678-HxCDD

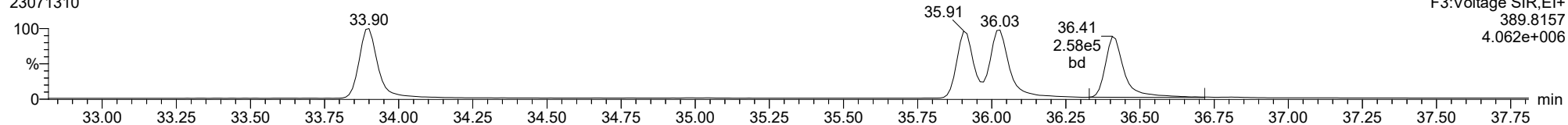
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

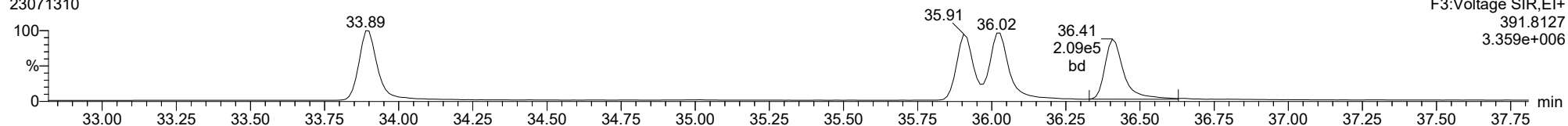
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23071310



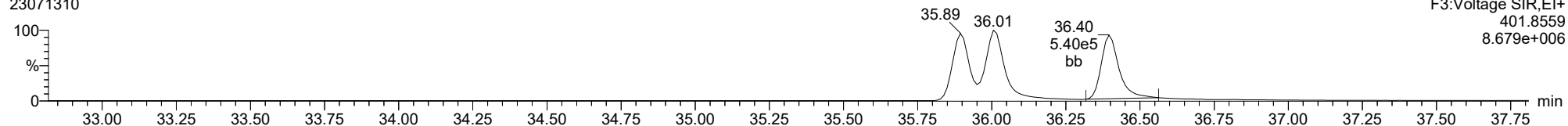
123789-HxCDD

23071310



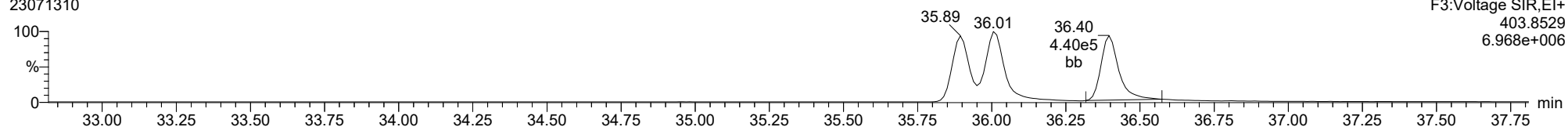
13C-123789-HxCDD

23071310



13C-123789-HxCDD

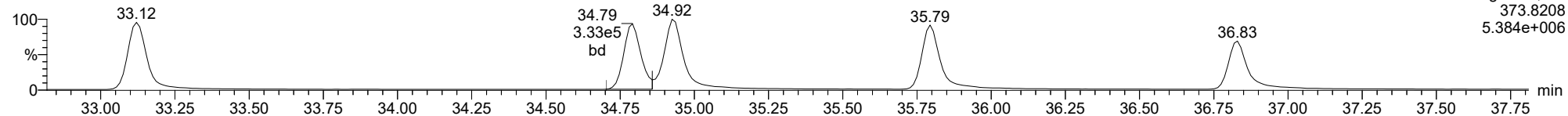
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

123478-HxCDF

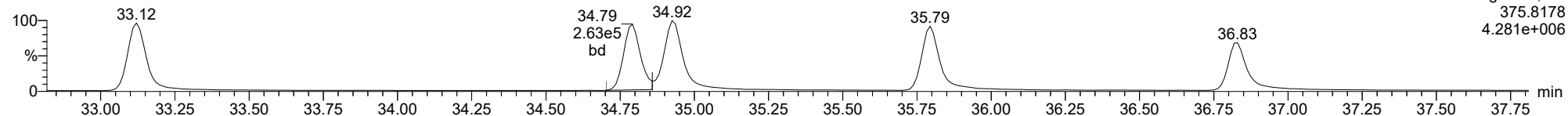
23071310



F3:Voltage SIR,EI+
373.8208
5.384e+006

123478-HxCDF

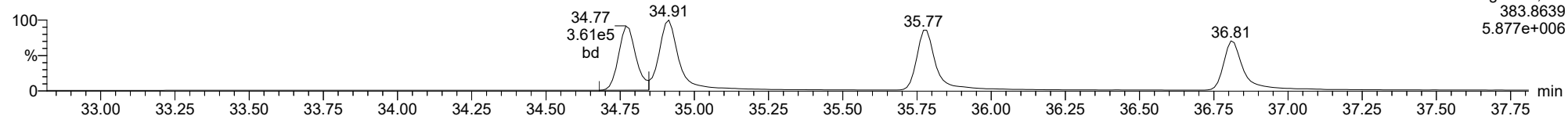
23071310



F3:Voltage SIR,EI+
375.8178
4.281e+006

13C-123478-HxCDF

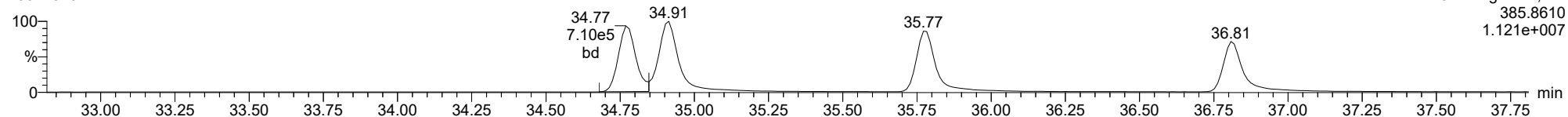
23071310



F3:Voltage SIR,EI+
383.8639
5.877e+006

13C-123478-HxCDF

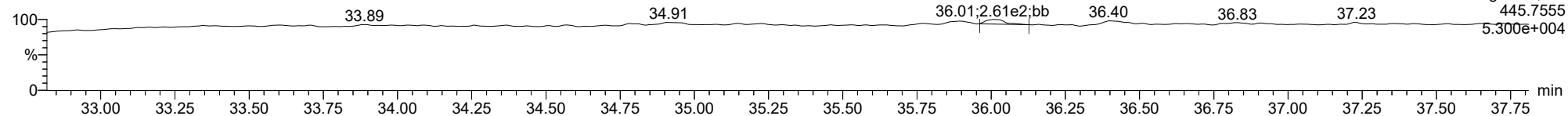
23071310



F3:Voltage SIR,EI+
385.8610
1.121e+007

FUNCTION3 OCDPE

23071310

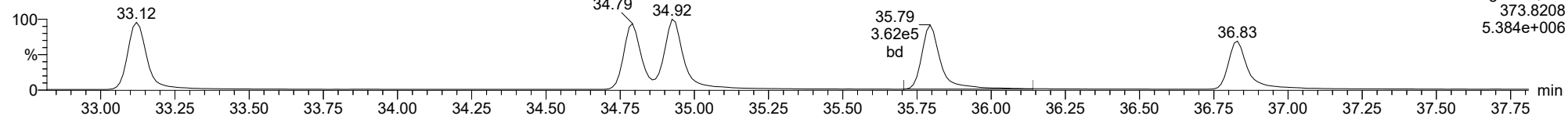


F3:Voltage SIR,EI+
445.7555
5.300e+004

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

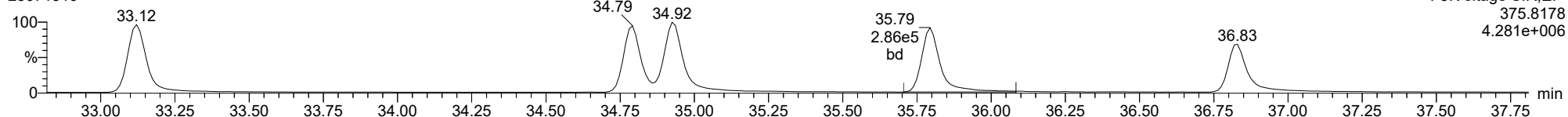
234678-HxCDF

23071310



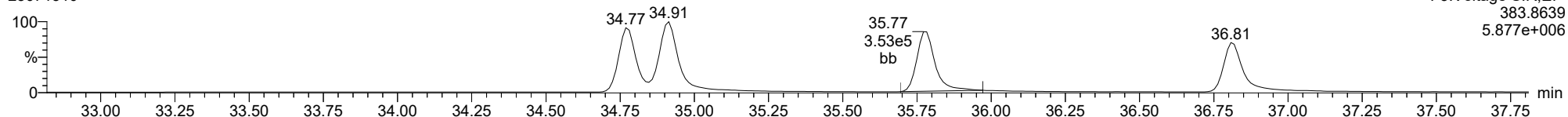
234678-HxCDF

23071310



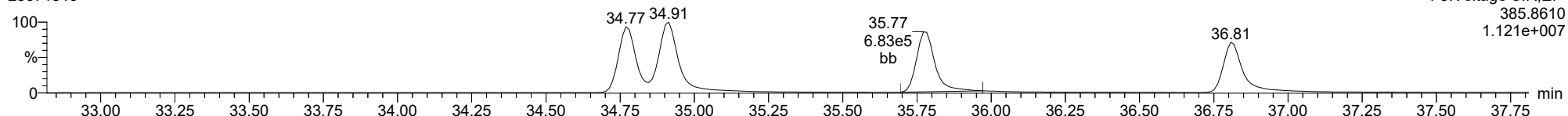
13C-234678-HxCDF

23071310



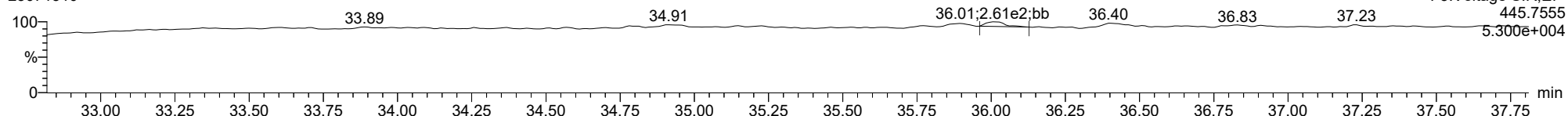
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23071310



FUNCTION3 OCDPE

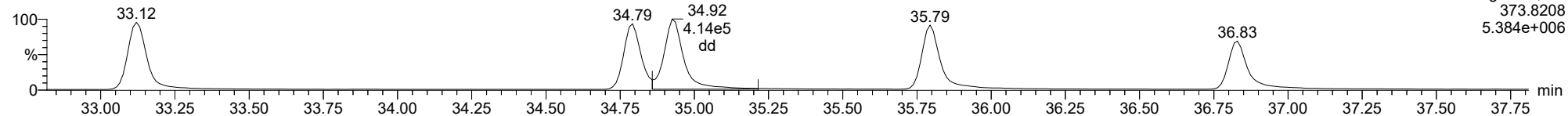
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

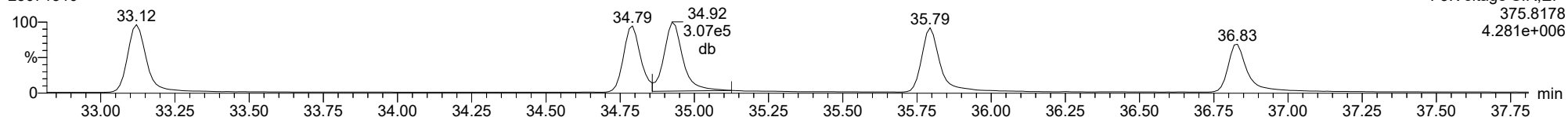
123678-HxCDF

23071310



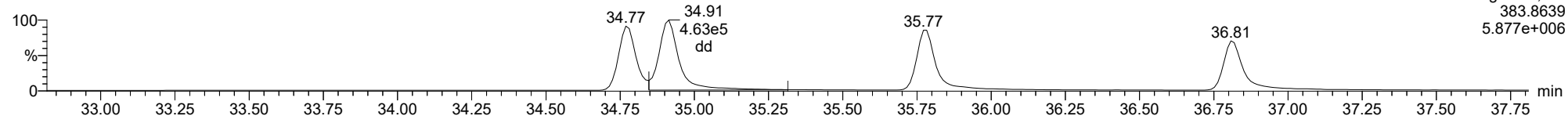
123678-HxCDF

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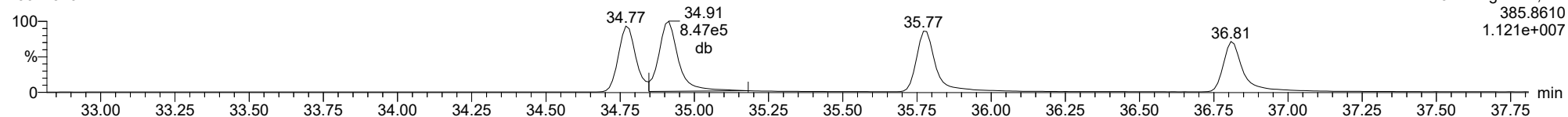
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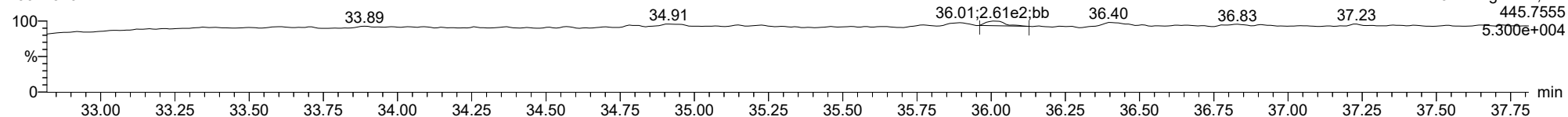
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23071310



FUNCTION3 OCDPE

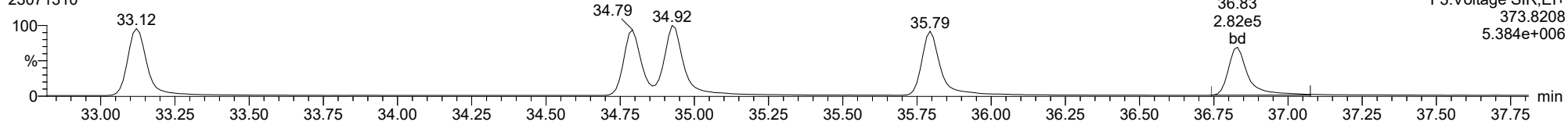
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

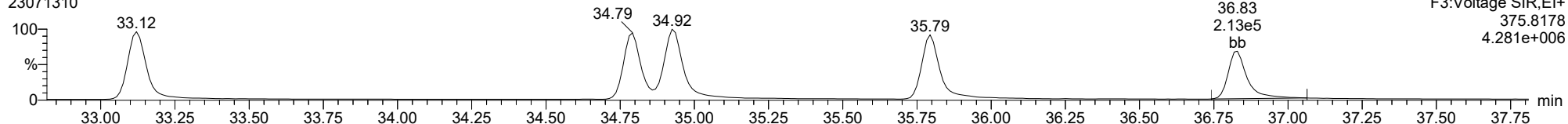
123789-HxCDF

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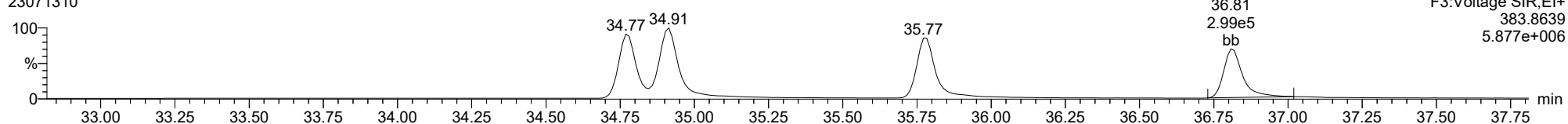
123789-HxCDF

23071310



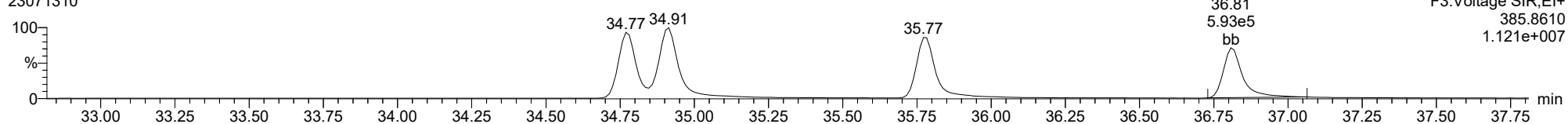
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23071310



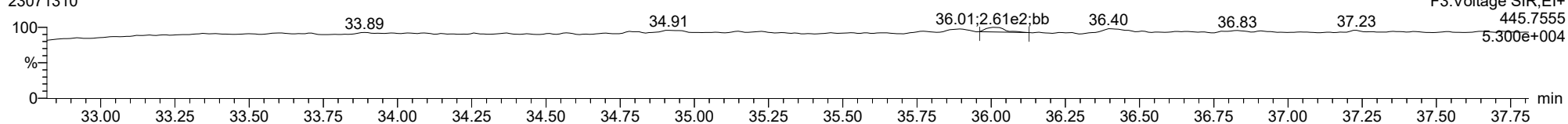
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23071310



FUNCTION3 OCDPE

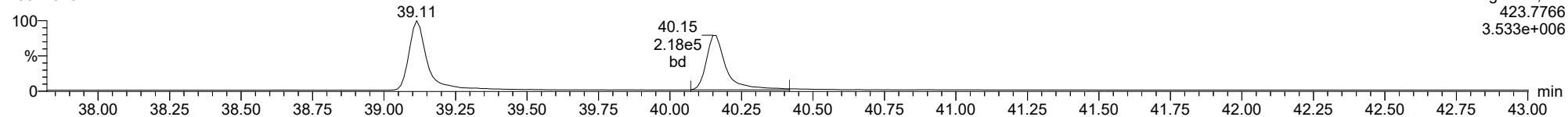
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

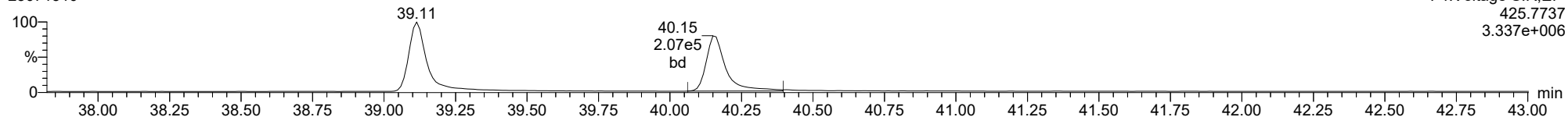
23071310



F4:Voltage SIR,El+
423.7766
3.533e+006

1234678-HpCDD

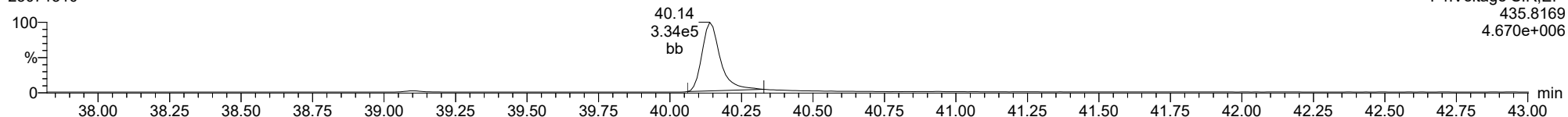
23071310



F4:Voltage SIR,El+
425.7737
3.337e+006

13C-1234678-HpCDD

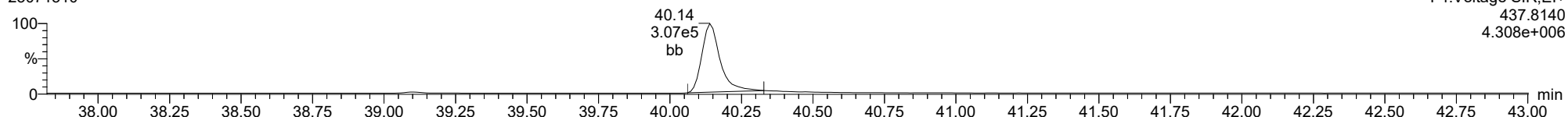
23071310



F4:Voltage SIR,El+
435.8169
4.670e+006

13C-1234678-HpCDD

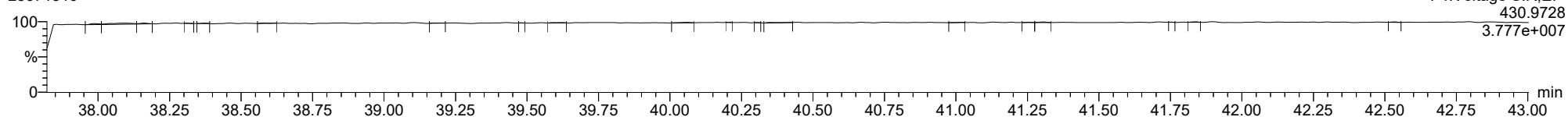
23071310



F4:Voltage SIR,El+
437.8140
4.308e+006

FUNCTION4 PFK

23071310

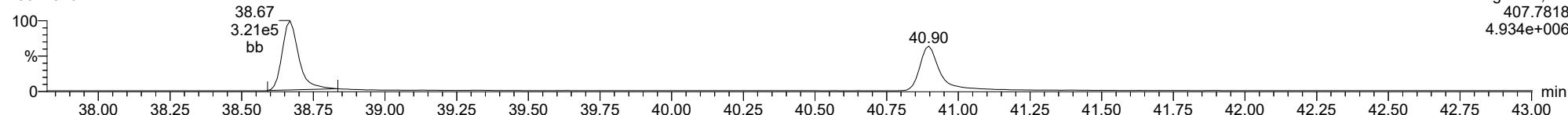


F4:Voltage SIR,El+
430.9728
3.777e+007

ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

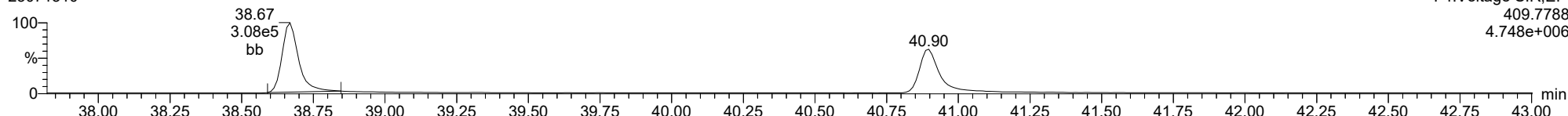
1234678-HpCDF

23071310



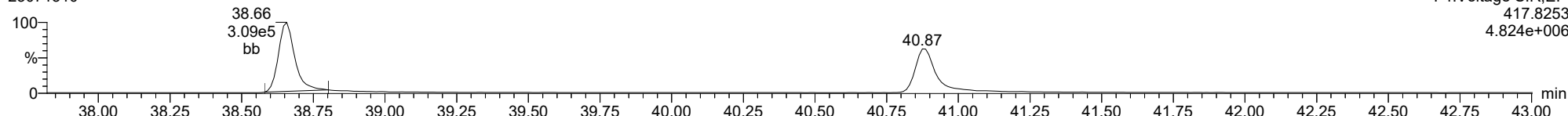
1234678-HpCDF

23071310



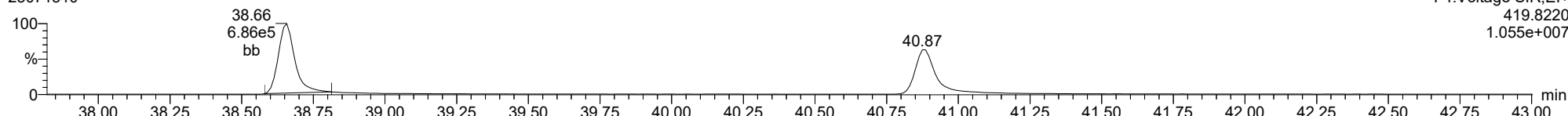
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23071310



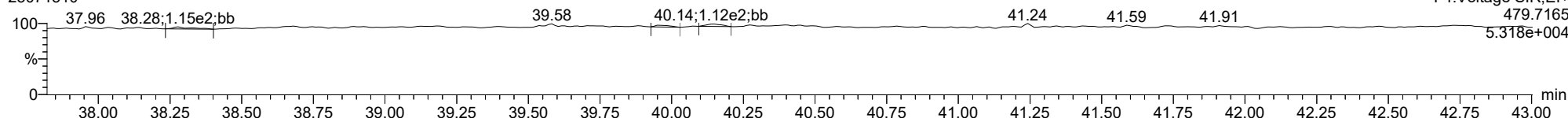
13C-1234678-HpCDF

23071310



FUNCTION4 NCDPE

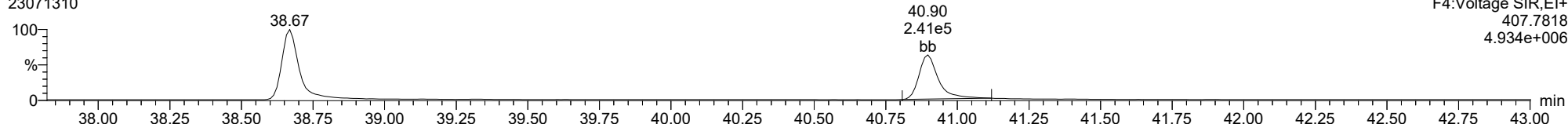
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

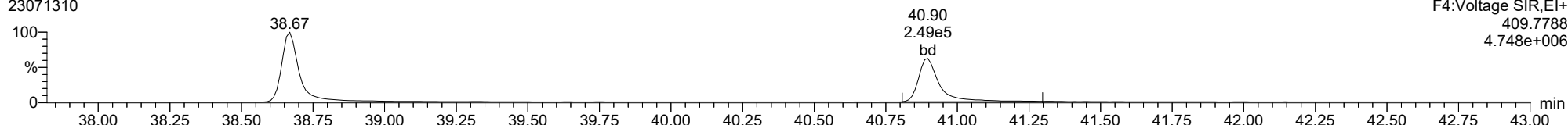
1234789-HpCDF

23071310



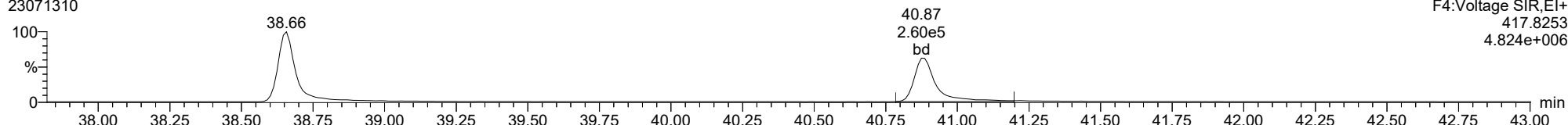
1234789-HpCDF

23071310



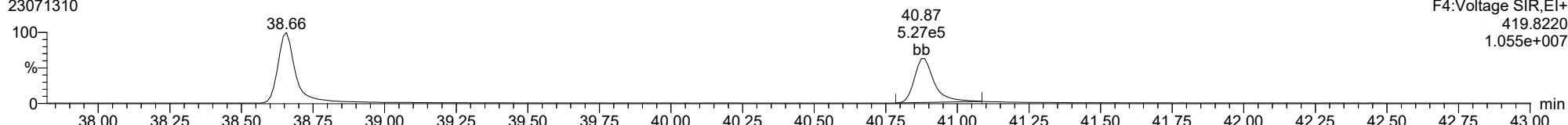
13C-1234789-HpCDF

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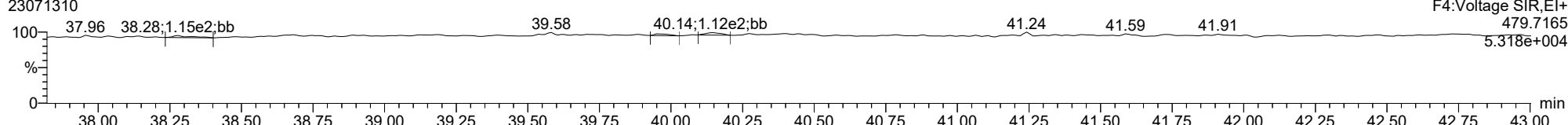
13C-1234789-HpCDF

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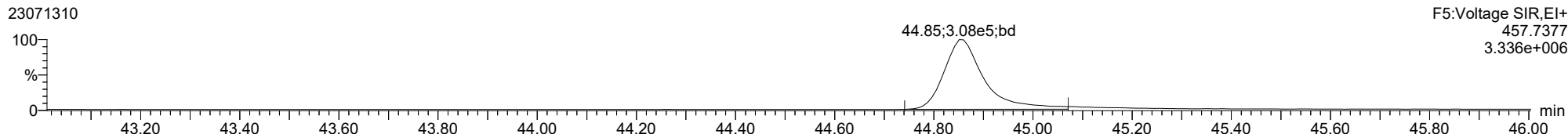
FUNCTION4 NCDPE

23071310

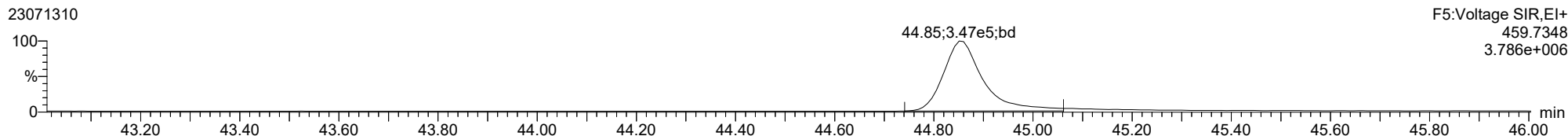


ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

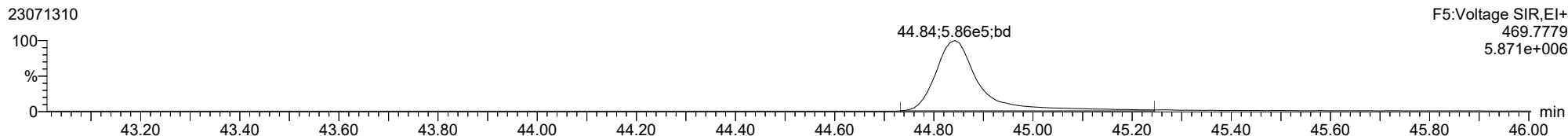
OCDD



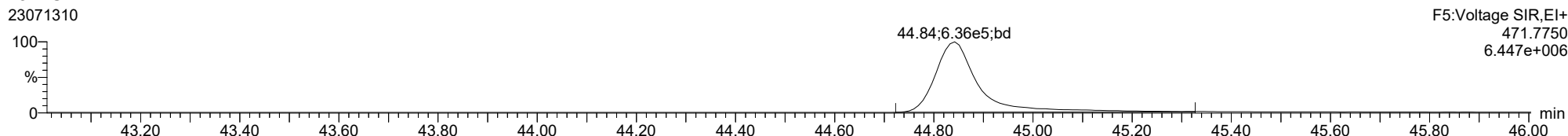
OCDD



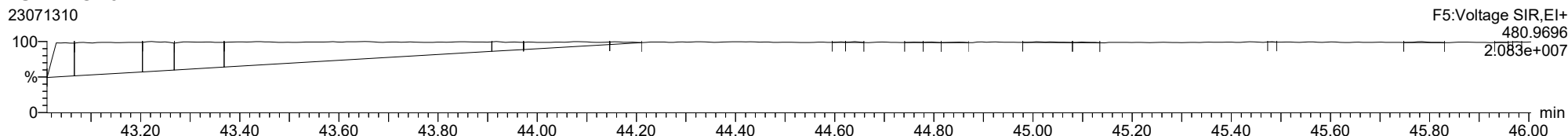
13C-OCDD



13C-OCDD



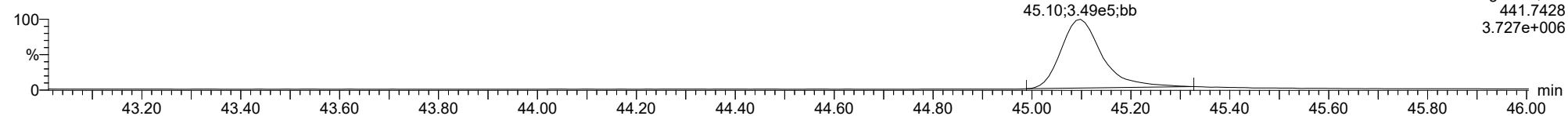
FUNCTION5 PFK



ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

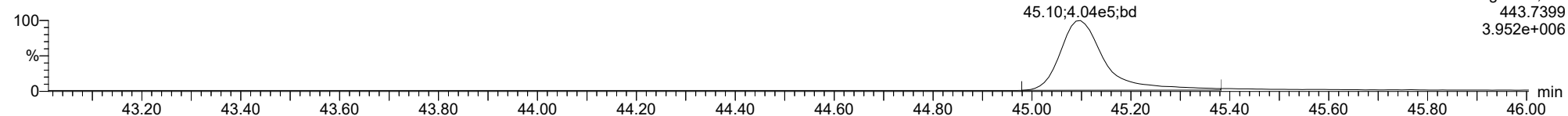
OCDF

23071310



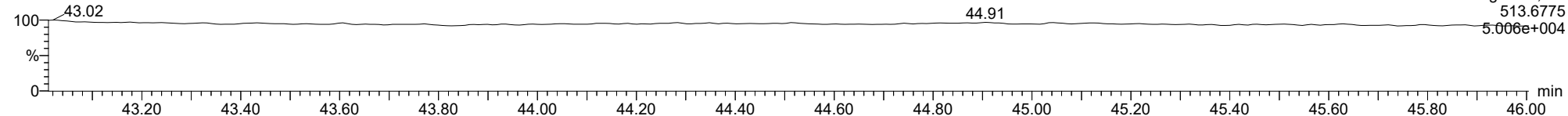
OCDF

23071310



FUNCTION5 DCDPE

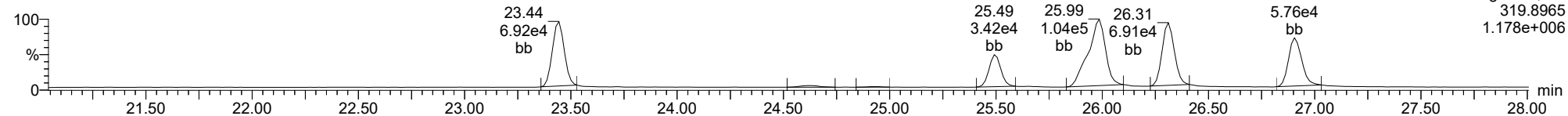
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

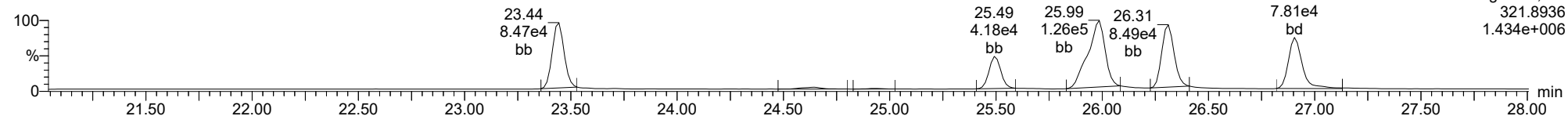
Total-tetradoxins

23071310



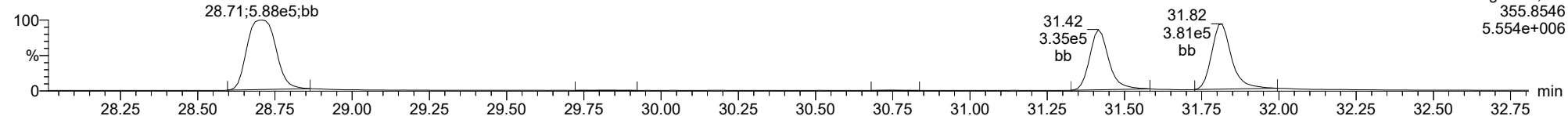
Total-tetradoxins

23071310



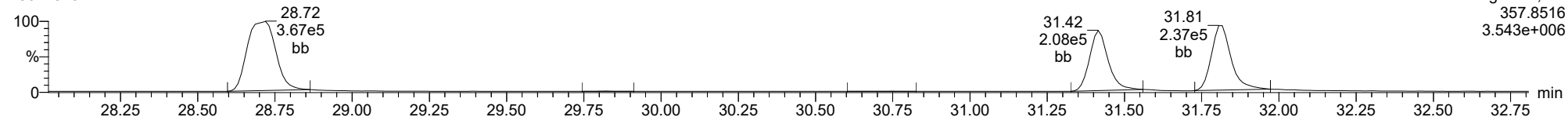
Total-pentadoxins

23071310



Total-pentadoxins

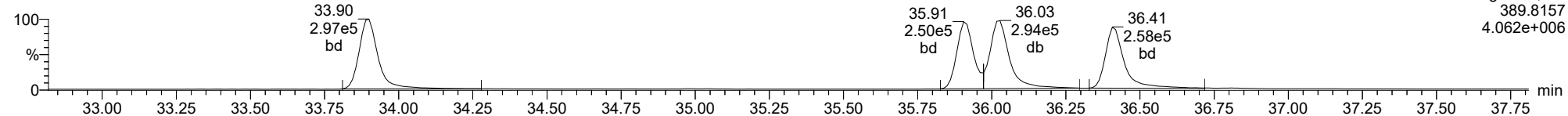
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

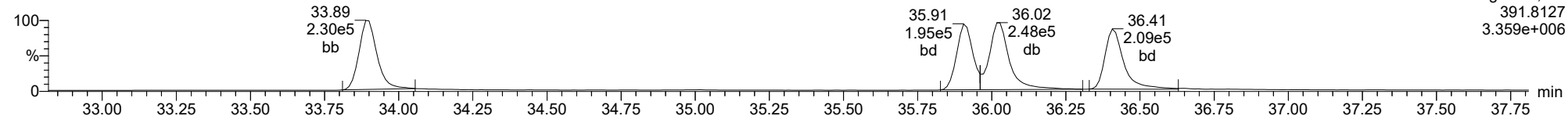
Total-hexadioxins

23071310



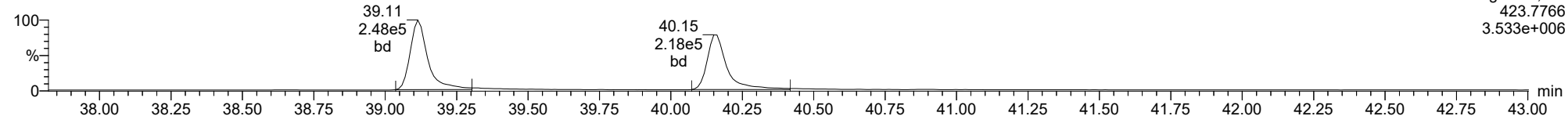
Total-hexadioxins

23071310



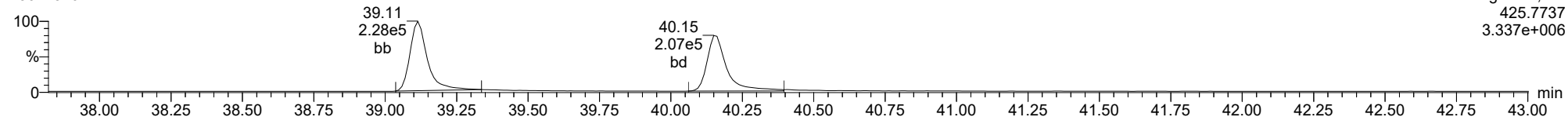
Total-heptadioxins

23071310



Total-heptadioxins

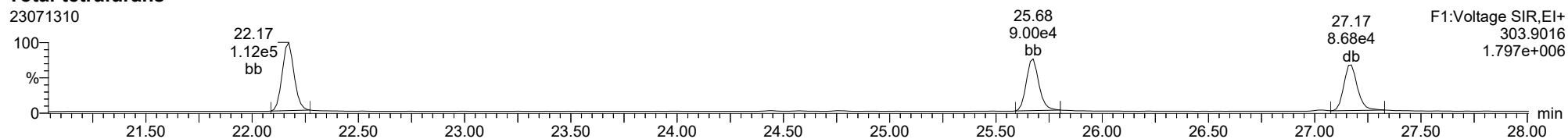
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ID: ICVCA, Name: 23071310, Date: 13-Jul-2023, Time: 18:10:08, Conditions: AUTOSPEC01, User: pk

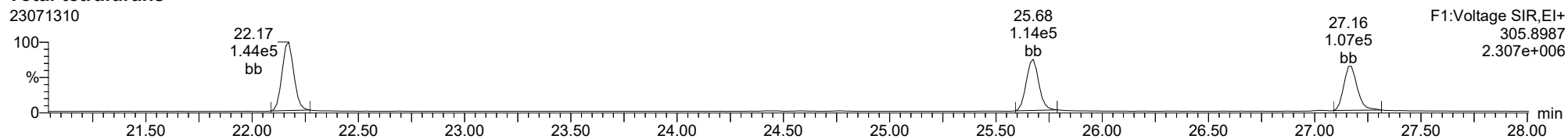
Total-tetrafurans

23071310



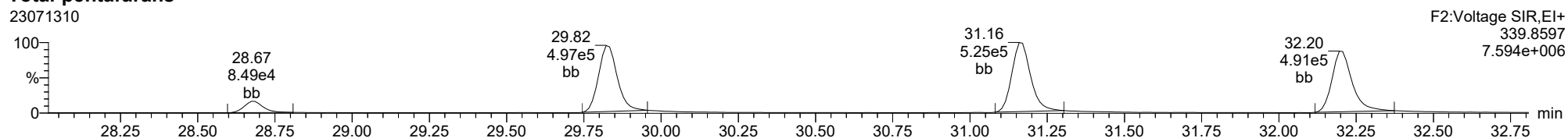
Total-tetrafurans

23071310



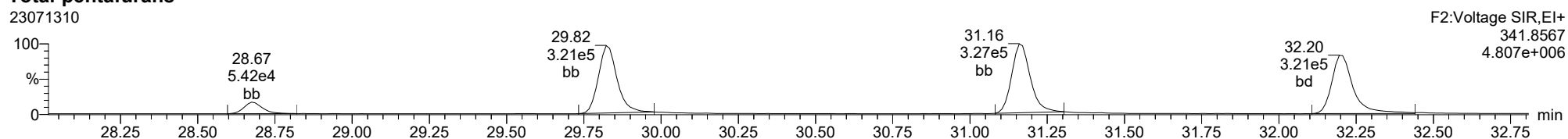
Total-pentafurans

23071310



Total-pentafurans

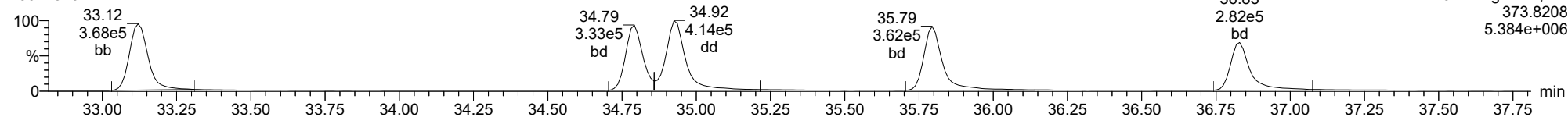
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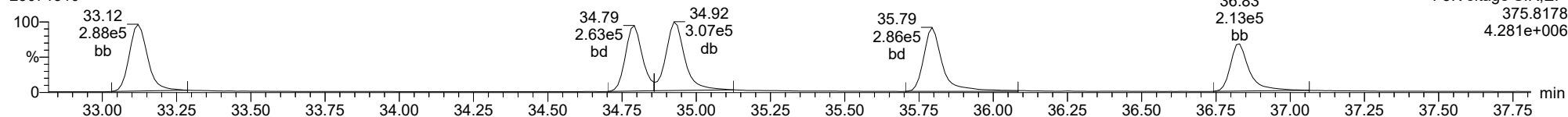
Total-hexafurans

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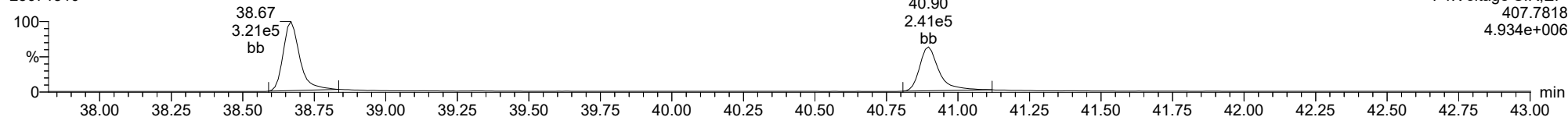
Total-hexafurans

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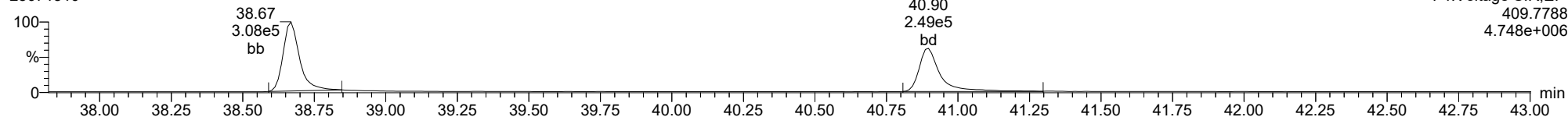
Total-heptafurans

23071310



Total-heptafurans

23071310



Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld
 Last Altered: Thursday, July 27, 2023 11:33:47 Pacific Daylight Time
 Printed: Thursday, July 27, 2023 11:34:44 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
 Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.676	1.001	3.674e4	4.384e4	0.951	0.838	0.770	1042	1448	5.02e5	6.25e5	482.0	431.9	NO	bb	bb	9.968
12378-PeCDF	29.833	1.001	1.971e5	1.335e5	0.963	1.476	1.550	2489	1798	2.74e6	1.77e6	1102.9	985.5	NO	bb	bb	51.636
23478-PeCDF	31.170	1.001	2.067e5	1.294e5	1.072	1.597	1.550	2489	1798	2.96e6	1.82e6	1188.0	1012.8	NO	bb	bb	49.256
123478-HxCDF	34.792	1.000	1.302e5	1.038e5	1.142	1.255	1.240	2493	2073	1.86e6	1.49e6	745.3	720.3	NO	bd	bd	50.786
234678-HxCDF	35.794	1.000	1.394e5	1.064e5	1.138	1.310	1.240	2493	2073	1.80e6	1.42e6	721.5	684.5	NO	bb	bd	53.817
123678-HxCDF	34.937	1.001	1.524e5	1.270e5	1.100	1.200	1.240	2493	2073	1.97e6	1.58e6	789.6	763.7	NO	db	db	50.069
123789-HxCDF	36.831	1.000	1.097e5	8.299e4	1.066	1.322	1.240	2493	2073	1.38e6	1.08e6	553.8	519.7	NO	bd	bb	52.718
1234678-HpCDF	38.669	1.000	1.296e5	1.253e5	1.210	1.034	1.050	2426	1912	1.76e6	1.66e6	723.7	869.9	NO	bd	bd	52.928
1234789-HpCDF	40.897	1.000	9.997e4	8.431e4	1.213	1.186	1.050	2426	1912	1.17e6	1.07e6	483.7	557.5	NO	bd	bb	51.731
OCDF	45.099	1.006	1.491e5	1.563e5	1.391	0.954	0.890	3266	1145	1.43e6	1.57e6	437.2	1370.6	NO	bd	bd	89.852
2378-TCDD	26.311	1.001	2.791e4	3.515e4	1.197	0.794	0.770	979	1102	4.06e5	5.01e5	414.7	454.3	NO	bb	bb	9.765
12378-PeCDD	31.416	1.000	1.273e5	8.195e4	1.129	1.553	1.550	2648	1324	1.71e6	1.12e6	646.1	846.9	NO	bb	bb	53.200
123478-HxCDD	35.917	1.001	9.234e4	7.367e4	0.917	1.253	1.240	2029	2237	1.38e6	1.10e6	678.7	493.2	NO	bd	bd	51.101
123678-HxCDD	36.028	1.000	1.225e5	9.486e4	0.944	1.292	1.240	2029	2237	1.49e6	1.24e6	732.1	553.1	NO	dd	dd	51.452
123789-HxCDD	36.418	1.011	9.799e4	7.498e4	0.869	1.307	1.240	2029	2237	1.31e6	1.01e6	643.2	452.7	NO	MM	bb	49.651
1234678-HpCDD	40.162	1.001	8.051e4	7.915e4	1.237	1.017	1.050	2144	1715	9.81e5	9.45e5	457.6	550.9	NO	bd	bd	50.493
OCDD	44.861	1.000	1.295e5	1.402e5	1.212	0.924	0.890	1690	1987	1.26e6	1.46e6	743.6	732.8	NO	bd	bd	90.985
13C-2378-TCDF	25.661	1.007	3.770e5	4.726e5	1.920	0.798	0.770	1320	1818	5.27e6	6.60e6	3988.8	3631.9	NO	bb	bb	92.245
13C-12378-PeCDF	29.811	1.170	4.055e5	2.594e5	1.455	1.563	1.550	3193	2672	5.70e6	3.61e6	1783.8	1351.4	NO	bb	bb	95.215
13C-23478-PeCDF	31.148	1.223	3.894e5	2.472e5	1.363	1.576	1.550	3193	2672	5.45e6	3.45e6	1708.0	1291.1	NO	bb	bb	97.345
13C-123478-HxCDF	34.780	0.956	1.371e5	2.665e5	1.119	0.514	0.510	2192	3587	2.00e6	3.87e6	911.6	1078.8	NO	bd	bd	98.770
13C-123678-HxCDF	34.914	0.959	1.755e5	3.321e5	1.343	0.529	0.510	2192	3587	2.22e6	4.27e6	1011.5	1190.4	NO	dd	db	103.484
13C-234678-HxCDF	35.783	0.983	1.349e5	2.667e5	1.113	0.506	0.510	2192	3587	1.84e6	3.62e6	840.6	1008.5	NO	bb	bb	98.820
13C-123789-HxCDF	36.819	1.012	1.172e5	2.255e5	0.959	0.520	0.510	2192	3587	1.47e6	2.89e6	669.0	806.1	NO	bb	bb	97.897
13C-1234678-HpCDF	38.658	1.062	1.249e5	2.731e5	1.058	0.458	0.440	2258	2765	1.76e6	3.92e6	779.3	1416.7	NO	bb	bb	102.945
13C-1234789-HpCDF	40.886	1.123	9.091e4	2.028e5	0.809	0.448	0.440	2258	2765	1.11e6	2.52e6	491.6	913.2	NO	bb	bb	99.456
13C-1234-TCDD	25.478	0.000	2.142e5	2.656e5	1.000	0.807	0.770	2182	1190	3.19e6	3.97e6	1464.1	3336.6	NO	bb	bb	100.000
13C-2378-TCDD	26.297	1.032	2.363e5	3.035e5	1.104	0.779	0.770	2182	1190	3.42e6	4.32e6	1567.9	3631.7	NO	bb	bb	101.863
13C-12378-PeCDD	31.404	1.233	2.158e5	1.324e5	0.770	1.629	1.550	1655	1145	2.92e6	1.78e6	1764.3	1558.0	NO	bb	bb	94.214
13C-123478-HxCDD	35.895	0.986	2.022e5	1.520e5	0.959	1.330	1.240	2368	2129	3.00e6	2.38e6	1267.7	1119.4	NO	bd	bd	101.098
13C-123678-HxCDD	36.017	0.990	2.471e5	2.005e5	1.120	1.232	1.240	2368	2129	3.13e6	2.53e6	1323.2	1186.4	NO	db	db	109.381
13C-1234678-HpCDD	40.139	1.103	1.305e5	1.252e5	0.640	1.042	1.050	1777	1440	1.64e6	1.54e6	920.7	1068.9	NO	bb	bd	109.307
13C-OCDD	44.843	1.232	2.341e5	2.548e5	0.555	0.919	0.890	2175	1443	2.30e6	2.53e6	1058.2	1750.6	NO	bd	bd	241.007
13C-123789-HxCDD	36.396	0.000	2.027e5	1.626e5	1.000	1.246	1.240	2368	2129	2.78e6	2.22e6	1175.6	1041.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.311	1.033	5.602e4		1.129			1553		7.83e5		504.1			bb		10.337

Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld
 Last Altered: Thursday, July 27, 2023 11:33:47 Pacific Daylight Time
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.172	0.864	4.672e4	5.999e4	1.201	0.779	0.770	1042	1448	7.12e5	9.10e5	683.1	628.8	NO	bb	bb	10.457
1289-TCDF	27.173	1.059	3.461e4	4.281e4	0.950	0.808	0.770	1042	1448	4.85e5	6.11e5	465.7	421.8	NO	bb	bb	9.586
13468-PECDF	27.031	0.907	2.278e5	1.484e5	1.142	1.536	1.550	588	1099	3.32e6	2.15e6	5642.0	1960.0	NO	bb	bb	49.521
12389-PECDF	32.207	1.080	2.114e5	1.253e5	0.917	1.687	1.550	2489	1798	2.61e6	1.59e6	1049.5	884.6	NO	bd	bd	55.242
123468-HXCDF	33.120	0.952	1.469e5	1.169e5	1.332	1.257	1.240	2493	2073	2.00e6	1.63e6	803.9	787.3	NO	bb	bb	49.075
1368-TCDD	23.444	0.891	2.881e4	3.549e4	1.148	0.812	0.770	979	1102	4.41e5	5.40e5	451.1	490.0	NO	bb	bb	10.377
1289-TCDD	26.904	1.023	2.278e4	2.968e4	0.955	0.767	0.770	979	1102	3.20e5	3.97e5	326.7	359.8	NO	bb	bd	10.178
12479-PECDD	28.697	0.914	2.301e5	1.476e5	2.043	1.559	1.550	2648	1324	2.11e6	1.36e6	796.8	1025.7	NO	bb	bb	53.099
12389-PECDD	31.817	1.013	1.488e5	9.372e4	1.326	1.588	1.550	2648	1324	1.97e6	1.23e6	744.8	927.6	NO	bb	bb	52.546
124679-HXCDD	33.900	0.944	1.196e5	9.557e4	1.104	1.251	1.240	2029	2237	1.56e6	1.29e6	767.5	578.9	NO	bd	bb	55.048
1234679-HPCDD	39.114	0.974	9.879e4	9.690e4	1.554	1.019	1.050	2144	1715	1.32e6	1.27e6	617.4	742.0	NO	bd	bd	49.239
Total-tetrafurans			1.184e5		1.034			1042		1.70e6							30.107
Total-penta1			2.278e5					588		3.32e6							49.521
Total-pentafurans			6.489e5		0.984			2489		8.80e6							164.738
Total-hexafurans			6.788e5		1.155			2493		9.01e6							256.464
Total-heptafurans			2.295e5		1.211			2426		2.93e6							104.658
Total-Furans			2.053e6		1.119			1042		2.72e7							695.340
Total-tetradoxins			1.341e5		1.100			979		1.79e6							51.248
Total-pentadoxins			5.062e5		1.499			2648		5.79e6							158.845
Total-hexadoxins			4.325e5		0.958			2029		5.73e6							207.252
Total-heptadoxins			1.793e5		1.396			2144		2.31e6							99.732
Total-Dioxins			1.381e6		1.203			979		1.69e7							608.063
Total-TEQ			3.434e6					979		4.41e7							1303.403
FUNCTION1 PFK			2.909e5					347679		8.00e6							
FUNCTION2 PFK			2.172e5					228222		6.37e6							0.000
FUNCTION3 PFK			3.567e5					315155		1.01e7							0.000
FUNCTION4 PFK			1.470e7					173287		1.07e8							
FUNCTION5 PFK			4.568e6					150898		3.91e7							
FUNCTION1 HXCD...			3.248e2					686		4.31e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			5.097e2					947		8.56e3							0.000
FUNCTION3 OCDPE			5.934e2					582		7.47e3							0.000
FUNCTION4 NCDPE			1.798e2					709		4.44e3							0.000
FUNCTION5 DCDPE			0.000e0					443		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230713CCVIH.qld
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Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3A2, **Name:** 23071311, **Date:** 13-Jul-2023, **Time:** 18:58:48, **Conditions:** AUTOSPEC01, **User:** pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.17	3.461e4	4.281e4	0.950	0.81	0.77	465.7	YES	NO	bb	bb	9.586
2	2378-TCDF	25.68	3.674e4	4.384e4	0.951	0.84	0.77	482.0	YES	NO	bb	bb	9.968
3	Total-tetrafurans	24.77	3.425e2	4.945e2	1.034	0.69	0.77	5.3	YES	NO	bb	db	0.095
4	1368-TCDF	22.17	4.672e4	5.999e4	1.201	0.78	0.77	683.1	YES	NO	bb	bb	10.457

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.03	2.278e5	1.484e5	1.142	1.54	1.55	5642.0	YES	NO	bb	bb	49.521

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.21	2.114e5	1.253e5	0.917	1.69	1.55	1049.5	YES	NO	bd	bd	55.242
2	23478-PeCDF	31.17	2.067e5	1.294e5	1.072	1.60	1.55	1188.0	YES	NO	bb	bb	49.256
3	12378-PeCDF	29.83	1.971e5	1.335e5	0.963	1.48	1.55	1102.9	YES	NO	bb	bb	51.636
4	Total-pentafurans	28.69	3.366e4	2.144e4	0.984	1.57	1.55	195.0	YES	NO	bb	bb	8.605

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.83	1.097e5	8.299e4	1.066	1.32	1.24	553.8	YES	NO	bd	bb	52.718
2	234678-HxCDF	35.79	1.394e5	1.064e5	1.138	1.31	1.24	721.5	YES	NO	bb	bd	53.817
3	123678-HxCDF	34.94	1.524e5	1.270e5	1.100	1.20	1.24	789.6	YES	NO	db	db	50.069
4	123478-HxCDF	34.79	1.302e5	1.038e5	1.142	1.26	1.24	745.3	YES	NO	bd	bd	50.786
5	123468-HXCDF	33.12	1.469e5	1.169e5	1.332	1.26	1.24	803.9	YES	NO	bb	bb	49.075

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.90	9.997e4	8.431e4	1.213	1.19	1.05	483.7	YES	NO	bd	bb	51.731
2	1234678-HpCDF	38.67	1.296e5	1.253e5	1.210	1.03	1.05	723.7	YES	NO	bd	bd	52.928

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	27.17	3.461e4	4.281e4	0.950	0.81	0.77	465.7	YES	NO	bb	bb	9.586
2	2378-TCDF	25.68	3.674e4	4.384e4	0.951	0.84	0.77	482.0	YES	NO	bb	bb	9.968
3	Total-tetrafurans	24.77	3.425e2	4.945e2	1.034	0.69	0.77	5.3	YES	NO	bb	db	0.095
4	1368-TCDF	22.17	4.672e4	5.999e4	1.201	0.78	0.77	683.1	YES	NO	bb	bb	10.457
5	12389-PECDF	32.21	2.114e5	1.253e5	0.917	1.69	1.55	1049.5	YES	NO	bd	bd	55.242
6	23478-PeCDF	31.17	2.067e5	1.294e5	1.072	1.60	1.55	1188.0	YES	NO	bb	bb	49.256
7	12378-PeCDF	29.83	1.971e5	1.335e5	0.963	1.48	1.55	1102.9	YES	NO	bb	bb	51.636
8	Total-pentafurans	28.69	3.366e4	2.144e4	0.984	1.57	1.55	195.0	YES	NO	bb	bb	8.605
9	123789-HxCDF	36.83	1.097e5	8.299e4	1.066	1.32	1.24	553.8	YES	NO	bd	bb	52.718
10	234678-HxCDF	35.79	1.394e5	1.064e5	1.138	1.31	1.24	721.5	YES	NO	bb	bd	53.817
11	123678-HxCDF	34.94	1.524e5	1.270e5	1.100	1.20	1.24	789.6	YES	NO	db	db	50.069
12	123478-HxCDF	34.79	1.302e5	1.038e5	1.142	1.26	1.24	745.3	YES	NO	bd	bd	50.786
13	123468-HXCDF	33.12	1.469e5	1.169e5	1.332	1.26	1.24	803.9	YES	NO	bb	bb	49.075
14	1234789-HpCDF	40.90	9.997e4	8.431e4	1.213	1.19	1.05	483.7	YES	NO	bd	bb	51.731
15	1234678-HpCDF	38.67	1.296e5	1.253e5	1.210	1.03	1.05	723.7	YES	NO	bd	bd	52.928
16	OCDF	45.10	1.491e5	1.563e5	1.391	0.95	0.89	437.2	YES	NO	bd	bd	89.852
17	13468-PECDF	27.03	2.278e5	1.484e5	1.142	1.54	1.55	5642.0	YES	NO	bb	bb	49.521

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.99	4.041e4	5.157e4	1.100	0.78	0.77	429.1	YES	NO	bb	bb	15.496
2	Total-tetradioxins	25.51	1.278e4	1.654e4	1.100	0.77	0.77	193.2	YES	NO	bb	bb	4.939
3	Total-tetradioxins	24.62	1.361e3	1.565e3	1.100	0.87	0.77	15.1	YES	NO	bb	bb	0.493
4	1368-TCDD	23.44	2.881e4	3.549e4	1.148	0.81	0.77	451.1	YES	NO	bb	bb	10.377
5	1289-TCDD	26.90	2.278e4	2.968e4	0.955	0.77	0.77	326.7	YES	NO	bb	bd	10.178
6	2378-TCDD	26.31	2.791e4	3.515e4	1.197	0.79	0.77	414.7	YES	NO	bb	bb	9.765

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12479-PECDD	28.70	2.301e5	1.476e5	2.043	1.56	1.55	796.8	YES	NO	bb	bb	53.099
2	12389-PECDD	31.82	1.488e5	9.372e4	1.326	1.59	1.55	744.8	YES	NO	bb	bb	52.546
3	12378-PeCDD	31.42	1.273e5	8.195e4	1.129	1.55	1.55	646.1	YES	NO	bb	bb	53.200

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HxCDD	33.90	1.196e5	9.557e4	1.104	1.25	1.24	767.5	YES	NO	bd	bb	55.048
2	123789-HxCDD	36.42	9.799e4	7.498e4	0.869	1.31	1.24	643.2	YES	NO	MM	bb	49.651
3	123678-HxCDD	36.03	1.225e5	9.486e4	0.944	1.29	1.24	732.1	YES	NO	dd	dd	51.452
4	123478-HxCDD	35.92	9.234e4	7.367e4	0.917	1.25	1.24	678.7	YES	NO	bd	bd	51.101

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.11	9.879e4	9.690e4	1.554	1.02	1.05	617.4	YES	NO	bd	bd	49.239
2	1234678-HpCDD	40.16	8.051e4	7.915e4	1.237	1.02	1.05	457.6	YES	NO	bd	bd	50.493

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.99	4.041e4	5.157e4	1.100	0.78	0.77	429.1	YES	NO	bb	bb	15.496
2	Total-tetradoxins	25.51	1.278e4	1.654e4	1.100	0.77	0.77	193.2	YES	NO	bb	bb	4.939
3	Total-tetradoxins	24.62	1.361e3	1.565e3	1.100	0.87	0.77	15.1	YES	NO	bb	bb	0.493
4	1368-TCDD	23.44	2.881e4	3.549e4	1.148	0.81	0.77	451.1	YES	NO	bb	bb	10.377
5	12479-PECDD	28.70	2.301e5	1.476e5	2.043	1.56	1.55	796.8	YES	NO	bb	bb	53.099
6	1289-TCDD	26.90	2.278e4	2.968e4	0.955	0.77	0.77	326.7	YES	NO	bb	bd	10.178
7	2378-TCDD	26.31	2.791e4	3.515e4	1.197	0.79	0.77	414.7	YES	NO	bb	bb	9.765
8	124679-HxCDD	33.90	1.196e5	9.557e4	1.104	1.25	1.24	767.5	YES	NO	bd	bb	55.048
9	12389-PECDD	31.82	1.488e5	9.372e4	1.326	1.59	1.55	744.8	YES	NO	bb	bb	52.546
10	12378-PeCDD	31.42	1.273e5	8.195e4	1.129	1.55	1.55	646.1	YES	NO	bb	bb	53.200
11	123789-HxCDD	36.42	9.799e4	7.498e4	0.869	1.31	1.24	643.2	YES	NO	MM	bb	49.651
12	123678-HxCDD	36.03	1.225e5	9.486e4	0.944	1.29	1.24	732.1	YES	NO	dd	dd	51.452
13	123478-HxCDD	35.92	9.234e4	7.367e4	0.917	1.25	1.24	678.7	YES	NO	bd	bd	51.101
14	1234679-HPCDD	39.11	9.879e4	9.690e4	1.554	1.02	1.05	617.4	YES	NO	bd	bd	49.239
15	1234678-HpCDD	40.16	8.051e4	7.915e4	1.237	1.02	1.05	457.6	YES	NO	bd	bd	50.493
16	OCDD	44.86	1.295e5	1.402e5	1.212	0.92	0.89	743.6	YES	NO	bd	bd	90.985

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.17	3.461e4	4.281e4	0.950	0.81	0.77	465.7	YES	NO	bb	bb	9.586
2	2378-TCDF	25.68	3.674e4	4.384e4	0.951	0.84	0.77	482.0	YES	NO	bb	bb	9.968
3	Total-tetrafurans	24.77	3.425e2	4.945e2	1.034	0.69	0.77	5.3	YES	NO	bb	db	0.095
4	1368-TCDF	22.17	4.672e4	5.999e4	1.201	0.78	0.77	683.1	YES	NO	bb	bb	10.457
5	12389-PECDF	32.21	2.114e5	1.253e5	0.917	1.69	1.55	1049.5	YES	NO	bd	bd	55.242
6	23478-PeCDF	31.17	2.067e5	1.294e5	1.072	1.60	1.55	1188.0	YES	NO	bb	bb	49.256
7	12378-PeCDF	29.83	1.971e5	1.335e5	0.963	1.48	1.55	1102.9	YES	NO	bb	bb	51.636
8	Total-pentafurans	28.69	3.366e4	2.144e4	0.984	1.57	1.55	195.0	YES	NO	bb	bb	8.605
9	123789-HxCDF	36.83	1.097e5	8.299e4	1.066	1.32	1.24	553.8	YES	NO	bd	bb	52.718
10	234678-HxCDF	35.79	1.394e5	1.064e5	1.138	1.31	1.24	721.5	YES	NO	bb	bd	53.817
11	123678-HxCDF	34.94	1.524e5	1.270e5	1.100	1.20	1.24	789.6	YES	NO	db	db	50.069
12	123478-HxCDF	34.79	1.302e5	1.038e5	1.142	1.26	1.24	745.3	YES	NO	bd	bd	50.786
13	123468-HXCDF	33.12	1.469e5	1.169e5	1.332	1.26	1.24	803.9	YES	NO	bb	bb	49.075
14	1234789-HpCDF	40.90	9.997e4	8.431e4	1.213	1.19	1.05	483.7	YES	NO	bd	bb	51.731
15	1234678-HpCDF	38.67	1.296e5	1.253e5	1.210	1.03	1.05	723.7	YES	NO	bd	bd	52.928
16	OCDF	45.10	1.491e5	1.563e5	1.391	0.95	0.89	437.2	YES	NO	bd	bd	89.852
17	13468-PECDF	27.03	2.278e5	1.484e5	1.142	1.54	1.55	5642.0	YES	NO	bb	bb	49.521
18	Total-tetradiioxins	25.99	4.041e4	5.157e4	1.100	0.78	0.77	429.1	YES	NO	bb	bb	15.496
19	Total-tetradiioxins	25.51	1.278e4	1.654e4	1.100	0.77	0.77	193.2	YES	NO	bb	bb	4.939
20	Total-tetradiioxins	24.62	1.361e3	1.565e3	1.100	0.87	0.77	15.1	YES	NO	bb	bb	0.493
21	1368-TCDD	23.44	2.881e4	3.549e4	1.148	0.81	0.77	451.1	YES	NO	bb	bb	10.377
22	12479-PECDD	28.70	2.301e5	1.476e5	2.043	1.56	1.55	796.8	YES	NO	bb	bb	53.099
23	1289-TCDD	26.90	2.278e4	2.968e4	0.955	0.77	0.77	326.7	YES	NO	bb	bd	10.178
24	2378-TCDD	26.31	2.791e4	3.515e4	1.197	0.79	0.77	414.7	YES	NO	bb	bb	9.765
25	124679-HXCDD	33.90	1.196e5	9.557e4	1.104	1.25	1.24	767.5	YES	NO	bd	bb	55.048
26	12389-PECDD	31.82	1.488e5	9.372e4	1.326	1.59	1.55	744.8	YES	NO	bb	bb	52.546
27	12378-PeCDD	31.42	1.273e5	8.195e4	1.129	1.55	1.55	646.1	YES	NO	bb	bb	53.200
28	123789-HxCDD	36.42	9.799e4	7.498e4	0.869	1.31	1.24	643.2	YES	NO	MM	bb	49.651
29	123678-HxCDD	36.03	1.225e5	9.486e4	0.944	1.29	1.24	732.1	YES	NO	dd	dd	51.452
30	123478-HxCDD	35.92	9.234e4	7.367e4	0.917	1.25	1.24	678.7	YES	NO	bd	bd	51.101
31	1234679-HPCDD	39.11	9.879e4	9.690e4	1.554	1.02	1.05	617.4	YES	NO	bd	bd	49.239
32	1234678-HpCDD	40.16	8.051e4	7.915e4	1.237	1.02	1.05	457.6	YES	NO	bd	bd	50.493
33	OCDD	44.86	1.295e5	1.402e5	1.212	0.92	0.89	743.6	YES	NO	bd	bd	90.985

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Printed: Thursday, July 27, 2023 11:34:44 Pacific Daylight Time

ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.89	1.867e4					1.8	NO		bb		
2	FUNCTION1 PFK	21.99	3.088e3					0.6	NO		bb		
3	FUNCTION1 PFK	21.62	4.165e3					0.8	NO		bb		
4	FUNCTION1 PFK	21.34	2.273e4					1.8	NO		bb		
5	FUNCTION1 PFK	21.25	1.799e4					1.7	NO		bb		
6	FUNCTION1 PFK	21.17	2.768e4					2.1	NO		bb		
7	FUNCTION1 PFK	27.92	8.197e3					1.0	NO		bb		
8	FUNCTION1 PFK	27.72	2.236e4					1.8	NO		bb		
9	FUNCTION1 PFK	27.60	2.534e4					1.1	NO		bb		
10	FUNCTION1 PFK	27.10	4.021e3					0.6	NO		bb		
11	FUNCTION1 PFK	26.96	1.341e4					1.3	NO		bb		
12	FUNCTION1 PFK	26.82	6.072e4					2.3	NO		bb		
13	FUNCTION1 PFK	26.69	9.133e3					0.9	NO		bb		
14	FUNCTION1 PFK	26.03	2.542e3					0.5	NO		bb		
15	FUNCTION1 PFK	25.10	2.735e3					0.6	NO		bb		
16	FUNCTION1 PFK	24.80	3.554e3					0.7	NO		bb		
17	FUNCTION1 PFK	23.53	2.463e3					0.5	NO		bb		
18	FUNCTION1 PFK	23.16	3.051e4					1.7	NO		db		
19	FUNCTION1 PFK	23.08	1.156e4					1.0	NO		bd		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.23	2.492e4					2.0	NO		bb		0.000
2	FUNCTION2 PFK	28.17	1.569e4					2.1	NO		bb		0.000
3	FUNCTION2 PFK	30.94	1.258e4					1.4	NO		db		0.000
4	FUNCTION2 PFK	30.89	8.187e3					1.4	NO		bd		0.000
5	FUNCTION2 PFK	30.74	9.184e3					1.3	NO		bb		0.000
6	FUNCTION2 PFK	30.68	8.059e3					1.4	NO		bb		0.000
7	FUNCTION2 PFK	30.49	2.668e3					0.7	NO		bb		0.000
8	FUNCTION2 PFK	30.28	3.090e3					0.6	NO		db		0.000
9	FUNCTION2 PFK	30.23	1.824e4					2.0	NO		bd		0.000
10	FUNCTION2 PFK	30.13	6.270e3					0.8	NO		bb		0.000
11	FUNCTION2 PFK	30.07	1.043e4					1.5	NO		bb		0.000
12	FUNCTION2 PFK	29.91	2.604e4					1.6	NO		bb		0.000
13	FUNCTION2 PFK	29.48	3.297e3					0.8	NO		db		0.000
14	FUNCTION2 PFK	29.43	1.581e4					1.6	NO		bd		0.000
15	FUNCTION2 PFK	29.09	3.329e3					0.7	NO		bb		0.000
16	FUNCTION2 PFK	28.80	2.765e3					0.6	NO		bb		0.000
17	FUNCTION2 PFK	28.69	3.255e3					0.7	NO		bb		0.000
18	FUNCTION2 PFK	28.45	3.556e3					0.8	NO		bb		0.000
19	FUNCTION2 PFK	32.63	1.027e4					1.1	NO		bb		0.000
20	FUNCTION2 PFK	31.85	5.582e3					1.1	NO		bb		0.000
21	FUNCTION2 PFK	31.76	9.240e3					1.3	NO		bb		0.000
22	FUNCTION2 PFK	31.66	2.964e3					0.7	NO		bb		0.000
23	FUNCTION2 PFK	31.55	1.072e4					1.1	NO		bb		0.000
24	FUNCTION2 PFK	31.47	1.055e3					0.4	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.97	1.908e3					0.5	NO		bb		0.000
2	FUNCTION3 PFK	33.87	9.332e3					1.2	NO		bb		0.000
3	FUNCTION3 PFK	33.62	1.747e4					1.6	NO		db		0.000
4	FUNCTION3 PFK	33.53	2.244e4					1.4	NO		bd		0.000
5	FUNCTION3 PFK	33.27	8.134e3					1.0	NO		db		0.000
6	FUNCTION3 PFK	33.20	1.180e4					1.1	NO		bd		0.000
7	FUNCTION3 PFK	33.05	2.855e4					2.2	NO		db		0.000
8	FUNCTION3 PFK	33.02	2.315e4					2.2	NO		bd		0.000
9	FUNCTION3 PFK	32.91	1.181e4					1.0	NO		bb		0.000
10	FUNCTION3 PFK	36.66	2.392e4					1.7	NO		bb		0.000
11	FUNCTION3 PFK	36.51	3.404e4					1.8	NO		bb		0.000
12	FUNCTION3 PFK	36.15	1.016e4					1.1	NO		bb		0.000
13	FUNCTION3 PFK	36.10	7.310e3					1.1	NO		db		0.000
14	FUNCTION3 PFK	36.06	2.329e4					2.2	NO		dd		0.000
15	FUNCTION3 PFK	36.01	1.197e4					1.3	NO		bd		0.000
16	FUNCTION3 PFK	35.82	1.699e4					1.1	NO		bb		0.000
17	FUNCTION3 PFK	35.72	8.232e3					1.1	NO		bb		0.000
18	FUNCTION3 PFK	35.58	5.277e3					0.8	NO		bb		0.000
19	FUNCTION3 PFK	35.27	3.911e3					0.7	NO		bb		0.000
20	FUNCTION3 PFK	35.03	4.253e3					0.6	NO		bb		0.000
21	FUNCTION3 PFK	34.91	1.393e3					0.4	NO		bb		0.000
22	FUNCTION3 PFK	34.81	5.026e3					0.8	NO		bb		0.000
23	FUNCTION3 PFK	34.49	3.683e4					1.7	NO		bb		0.000
24	FUNCTION3 PFK	34.36	6.329e3					0.9	NO		bb		0.000
25	FUNCTION3 PFK	34.11	2.158e3					0.5	NO		bb		0.000
26	FUNCTION3 PFK	37.18	6.282e3					0.6	NO		bb		0.000
27	FUNCTION3 PFK	36.96	1.471e4					1.3	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.88	1.376e4					2.3	NO		bb		
2	FUNCTION4 PFK	39.75	2.662e5					2.3	NO		db		
3	FUNCTION4 PFK	39.48	1.463e5					14.0	YES		dd		
4	FUNCTION4 PFK	39.20	9.830e5					26.4	YES		dd		
5	FUNCTION4 PFK	39.09	1.283e6					31.0	YES		dd		
6	FUNCTION4 PFK	38.79	1.241e6					43.7	YES		dd		
7	FUNCTION4 PFK	38.75	2.410e6					45.3	YES		dd		
8	FUNCTION4 PFK	38.45	9.077e5					59.7	YES		dd		
9	FUNCTION4 PFK	38.32	1.083e6					64.2	YES		dd		
10	FUNCTION4 PFK	38.20	1.300e6					69.9	YES		dd		
11	FUNCTION4 PFK	38.19	2.849e6					69.8	YES		dd		
12	FUNCTION4 PFK	37.94	5.985e5					78.0	YES		dd		
13	FUNCTION4 PFK	37.88	1.392e6					81.3	YES		bd		
14	FUNCTION4 PFK	41.83	1.184e4					1.6	NO		bb		
15	FUNCTION4 PFK	41.77	5.372e3					1.1	NO		bb		
16	FUNCTION4 PFK	41.71	7.245e3					1.6	NO		bb		
17	FUNCTION4 PFK	41.51	1.168e4					1.7	NO		bb		
18	FUNCTION4 PFK	41.31	2.437e4					2.1	NO		bb		
19	FUNCTION4 PFK	41.21	1.413e4					2.1	NO		bb		
20	FUNCTION4 PFK	41.08	5.575e3					1.2	NO		bb		
21	FUNCTION4 PFK	40.96	1.294e4					1.1	NO		bb		
22	FUNCTION4 PFK	40.83	2.032e4					2.2	NO		bb		
23	FUNCTION4 PFK	40.64	4.286e3					1.1	NO		db		
24	FUNCTION4 PFK	40.59	1.396e4					1.9	NO		dd		
25	FUNCTION4 PFK	40.54	1.043e4					1.5	NO		dd		
26	FUNCTION4 PFK	40.45	1.597e4					1.5	NO		dd		
27	FUNCTION4 PFK	40.36	1.339e4					2.6	NO		bd		
28	FUNCTION4 PFK	40.23	7.571e3					0.8	NO		bb		
29	FUNCTION4 PFK	39.98	6.551e3					1.0	NO		bb		
30	FUNCTION4 PFK	42.80	9.928e2					0.5	NO		bb		
31	FUNCTION4 PFK	42.76	5.396e3					1.3	NO		bb		
32	FUNCTION4 PFK	42.65	7.165e3					1.4	NO		bb		
33	FUNCTION4 PFK	42.50	2.006e4					1.4	NO		db		
34	FUNCTION4 PFK	42.38	9.000e3					1.4	NO		bd		
35	FUNCTION4 PFK	42.13	1.577e3					0.6	NO		bb		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.66	5.436e3					1.1	NO		bb		
2	FUNCTION5 PFK	44.51	1.033e3					0.7	NO		bb		
3	FUNCTION5 PFK	44.41	1.927e4					2.3	NO		bb		
4	FUNCTION5 PFK	44.17	6.932e2					0.5	NO		bb		
5	FUNCTION5 PFK	43.52	9.577e5					31.0	YES		db		
6	FUNCTION5 PFK	43.37	1.217e6					41.5	YES		dd		
7	FUNCTION5 PFK	43.24	5.373e5					51.4	YES		dd		
8	FUNCTION5 PFK	43.20	1.086e6					54.2	YES		dd		
9	FUNCTION5 PFK	43.06	6.838e5					63.4	YES		bd		
10	FUNCTION5 PFK	45.85	8.918e3					1.8	NO		bb		
11	FUNCTION5 PFK	45.65	2.912e3					1.0	NO		db		
12	FUNCTION5 PFK	45.62	2.722e3					1.0	NO		bd		
13	FUNCTION5 PFK	45.58	6.182e2					0.5	NO		bb		
14	FUNCTION5 PFK	45.46	4.656e3					1.7	NO		db		
15	FUNCTION5 PFK	45.43	8.957e3					1.8	NO		bd		
16	FUNCTION5 PFK	45.27	2.042e3					0.9	NO		bb		
17	FUNCTION5 PFK	45.14	7.750e2					0.6	NO		bb		
18	FUNCTION5 PFK	45.08	1.086e4					2.0	NO		db		
19	FUNCTION5 PFK	44.99	1.763e4					1.9	NO		bd		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.54	8.773e1					1.7	NO		db		0.000
2	FUNCTION1 HXCD...	27.41	7.835e1					1.6	NO		bd		0.000
3	FUNCTION1 HXCD...	25.99	8.111e1					1.8	NO		bb		0.000
4	FUNCTION1 HXCD...	24.52	7.761e1					1.2	NO		bb		0.000

ETHERS2

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

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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.28	7.006e1					1.2	NO		bb		0.000
2	FUNCTION2 HPCD...	31.85	8.208e1					1.8	NO		db		0.000
3	FUNCTION2 HPCD...	31.76	7.185e1					1.2	NO		bd		0.000
4	FUNCTION2 HPCD...	31.01	1.636e2					2.9	NO		bb		0.000
5	FUNCTION2 HPCD...	29.45	1.221e2					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	37.47	1.968e2					3.1	YES		bb		0.000
2	FUNCTION3 OCDPE	36.41	1.373e2					2.6	NO		bb		0.000
3	FUNCTION3 OCDPE	36.03	8.599e1					2.8	NO		bb		0.000
4	FUNCTION3 OCDPE	34.97	7.502e1					2.0	NO		bb		0.000
5	FUNCTION3 OCDPE	33.01	9.827e1					2.4	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.81	8.967e1					3.1	YES		bb		0.000
2	FUNCTION4 NCDPE	41.19	9.011e1					3.2	YES		bb		0.000

ETHERS6

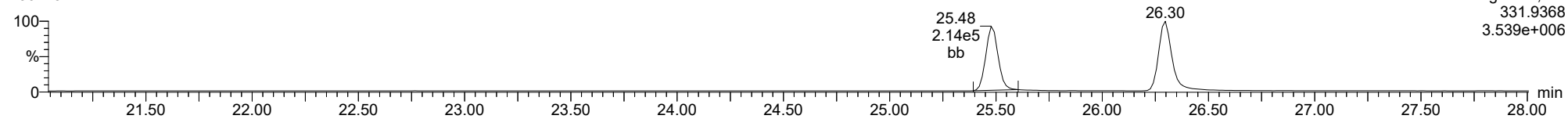
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1													

Method: T:\Autospec\Methods\Dioxin230713.mdb 14 Jul 2023 07:26:42
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ID: CS3A2, **Name:** 23071311, **Date:** 13-Jul-2023, **Time:** 18:58:48, **Conditions:** AUTOSPEC01, **User:** pk

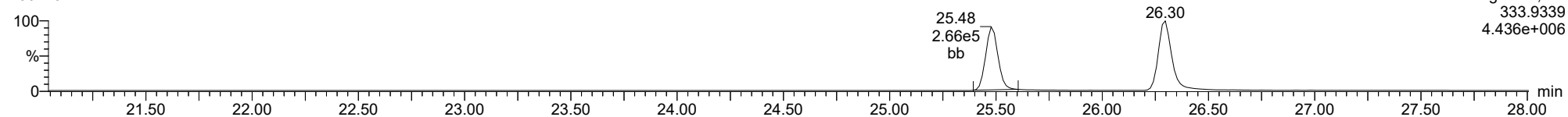
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23071311



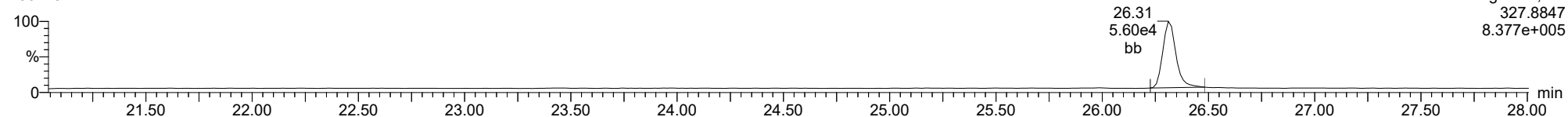
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23071311



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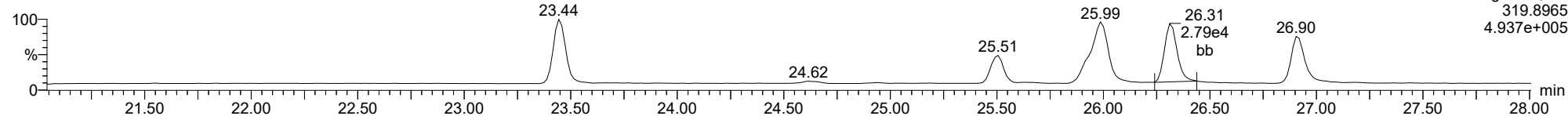
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

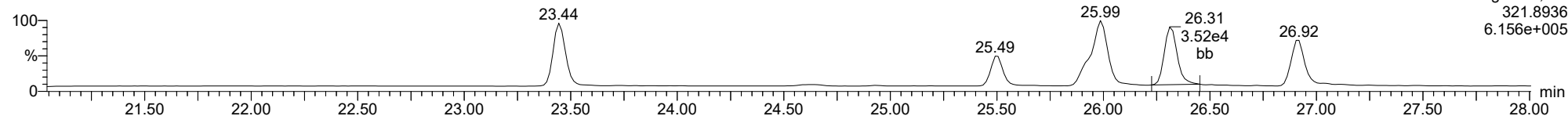
2378-TCDD

23071311



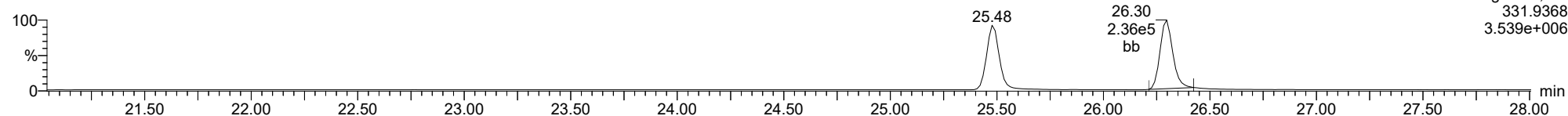
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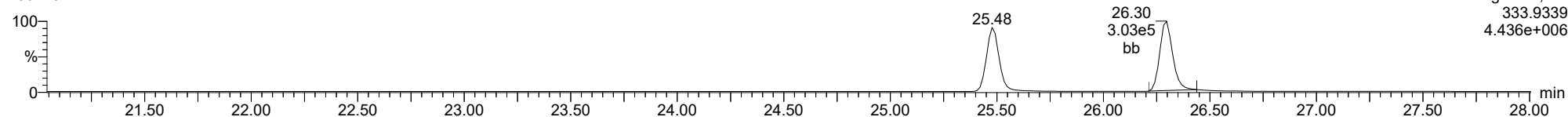
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23071311



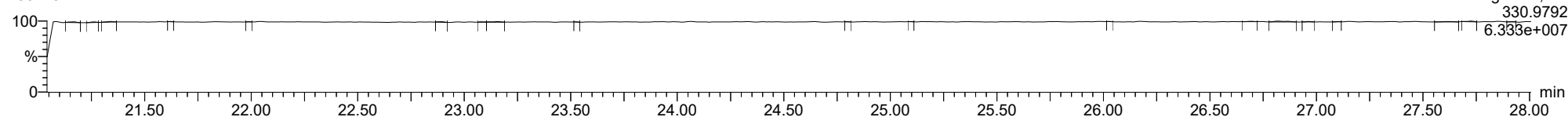
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23071311



FUNCTION1 PFK

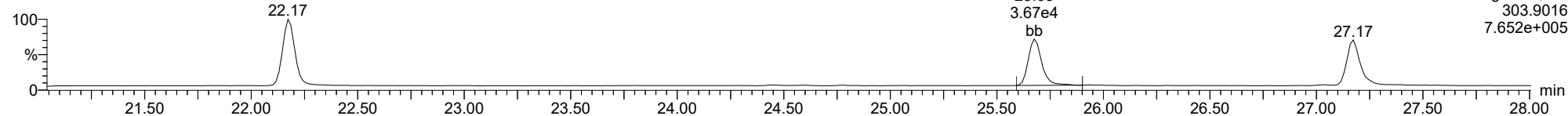
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

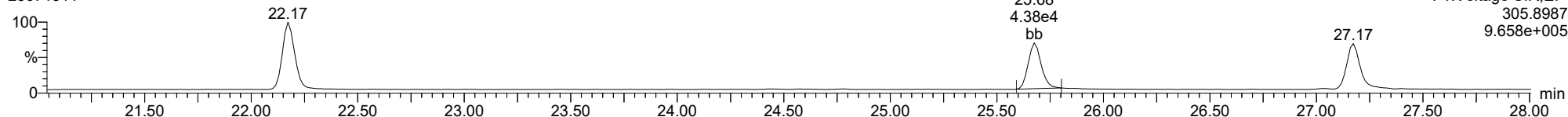
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23071311



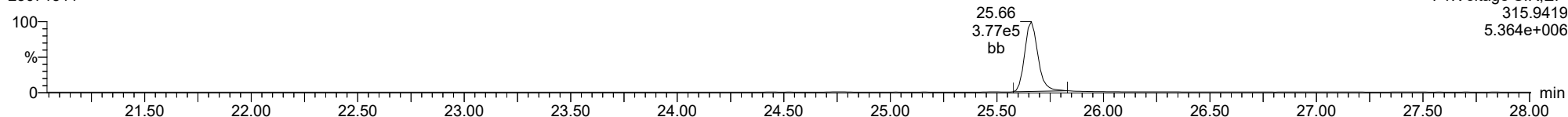
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23071311



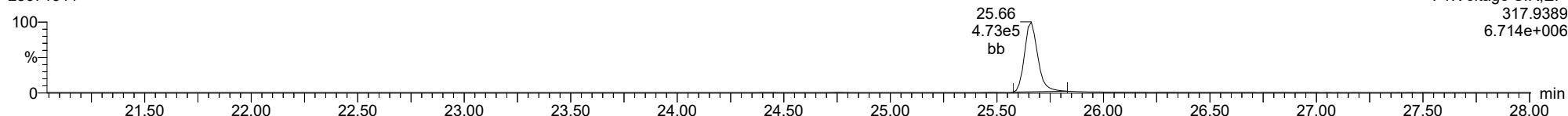
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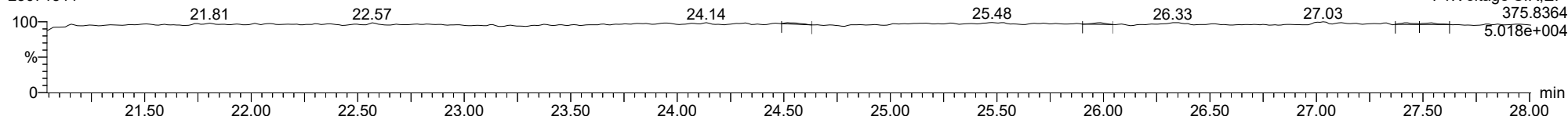
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23071311



FUNCTION1 HXCDPE

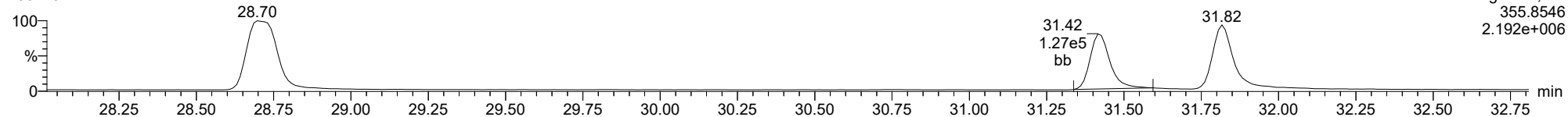
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12378-PeCDD

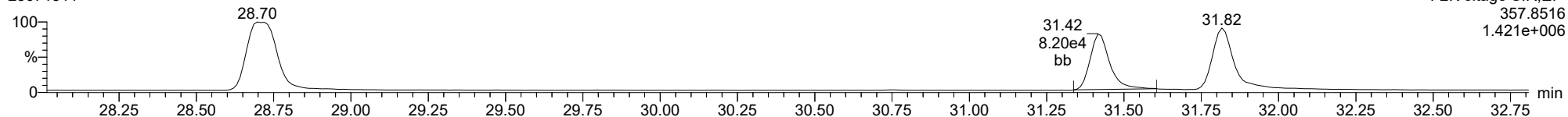
23071311



F2:Voltage SIR,EI+
357.8546
2.192e+006

12378-PeCDD

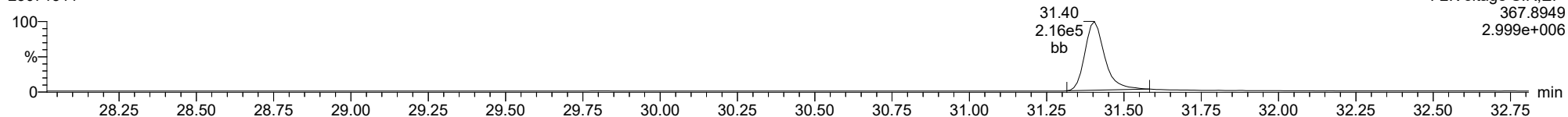
23071311



F2:Voltage SIR,EI+
357.8516
1.421e+006

13C-12378-PeCDD

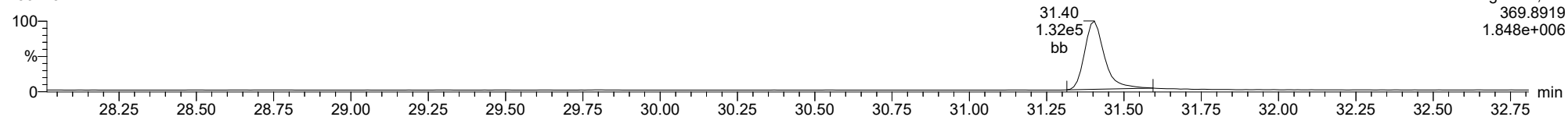
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F2:Voltage SIR,EI+
367.8949
2.999e+006

13C-12378-PeCDD

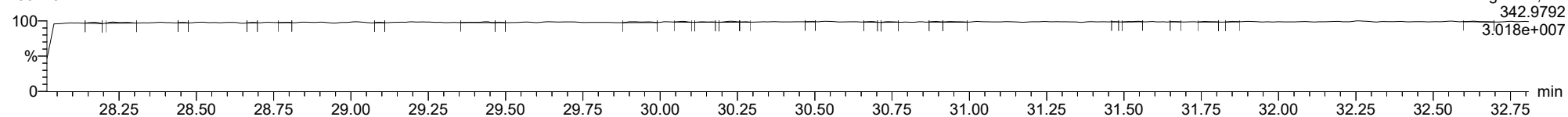
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F2:Voltage SIR,EI+
369.8919
1.848e+006

FUNCTION2 PFK

23071311

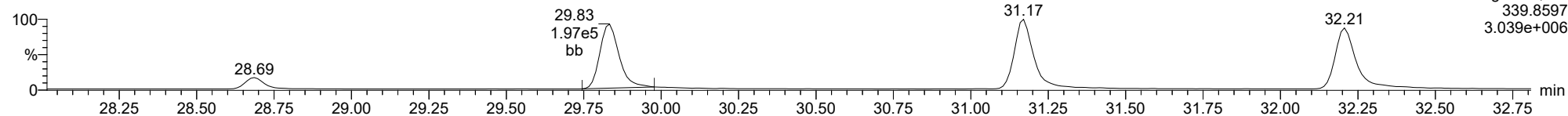


F2:Voltage SIR,EI+
342.9792
3.018e+007

ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

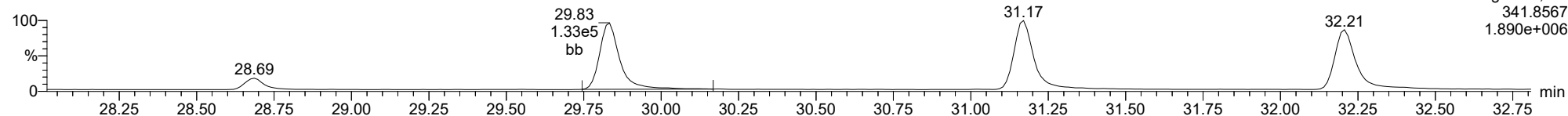
12378-PeCDF

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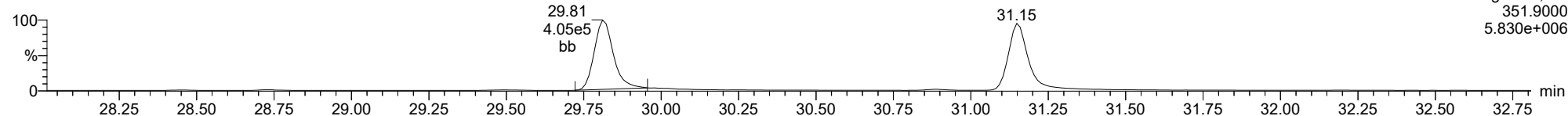
12378-PeCDF

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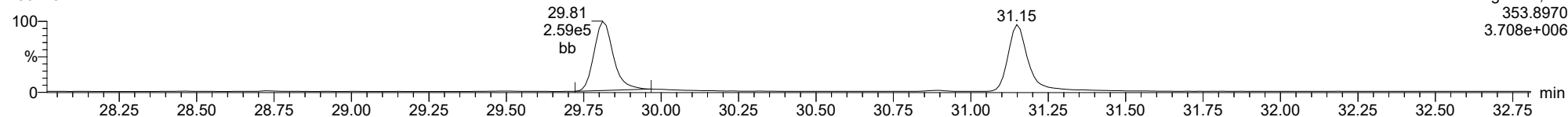
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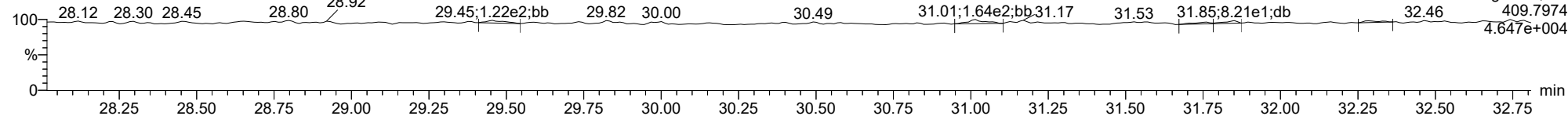
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FUNCTION2 HPCDPE

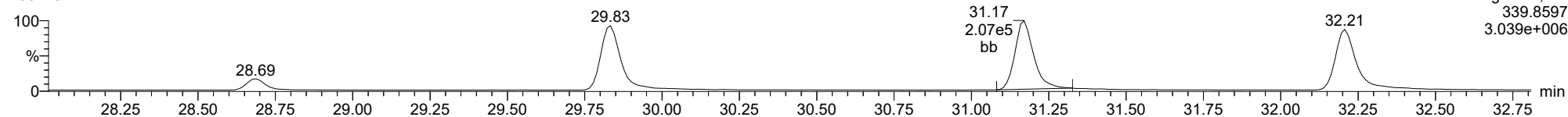
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

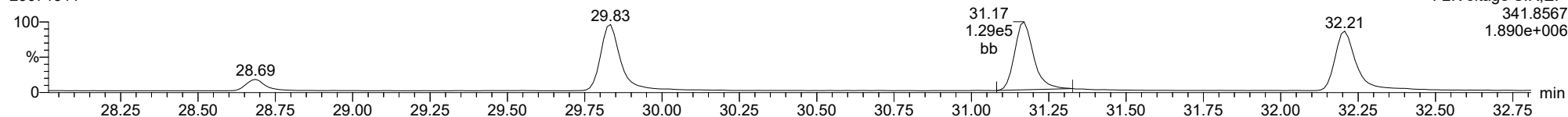
23478-PeCDF

23071311



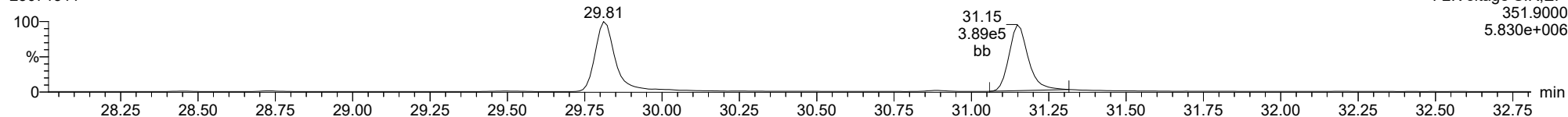
23478-PeCDF

23071311



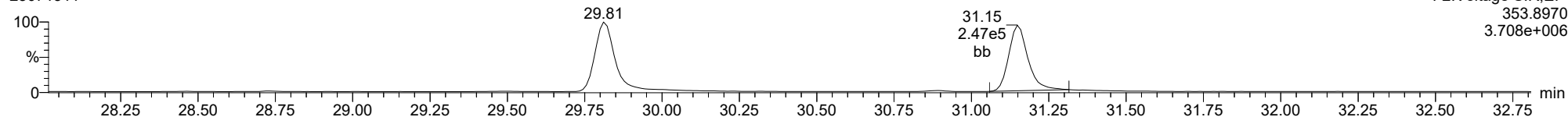
13C-23478-PeCDF

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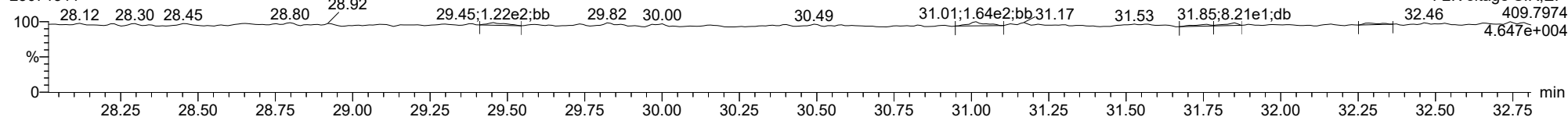
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FUNCTION2 HPCDPE

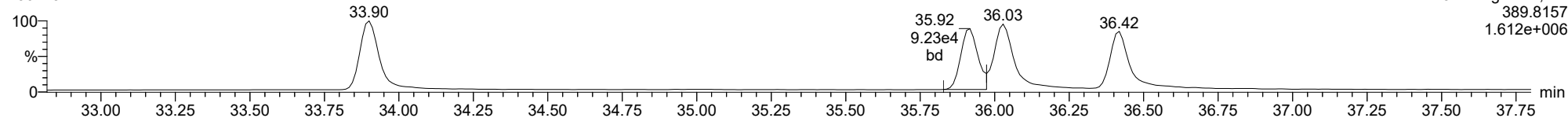
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

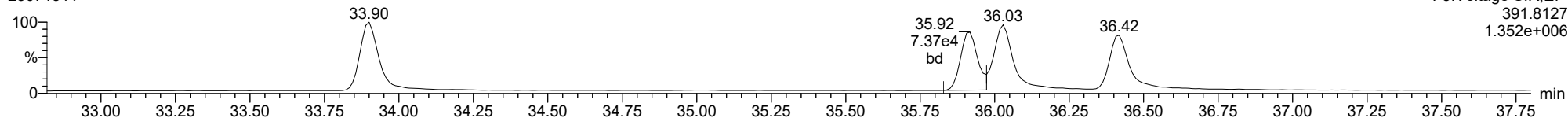
123478-HxCDD

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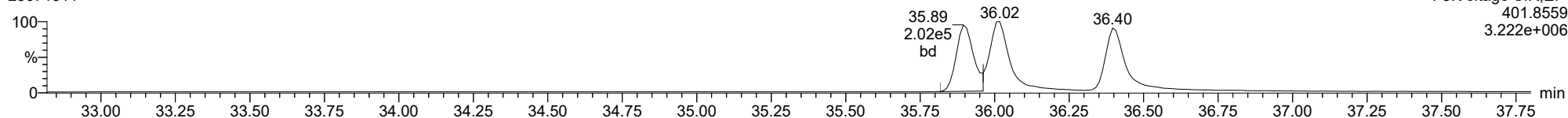
123478-HxCDD

23071311



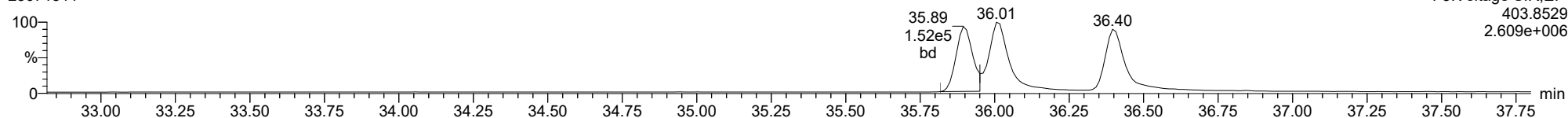
13C-123478-HxCDD

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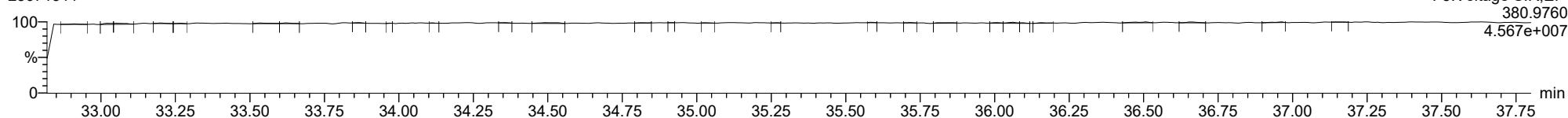
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FUNCTION3 PFK

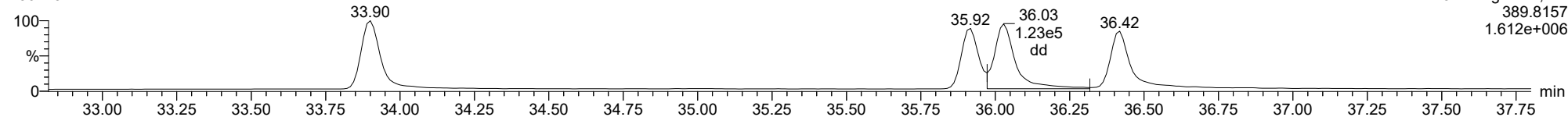
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

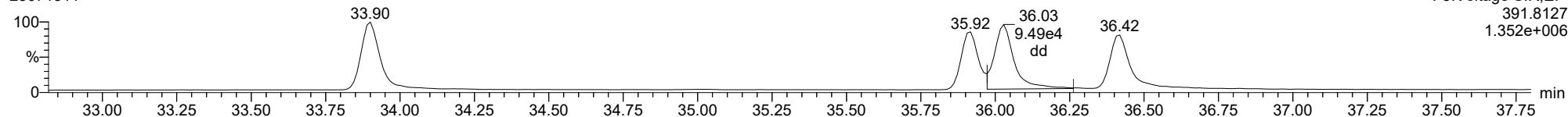
123678-HxCDD

23071311



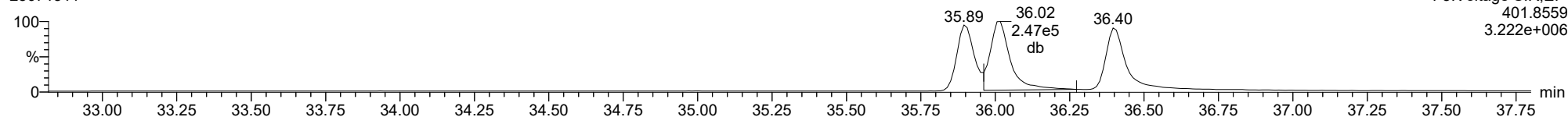
123678-HxCDD

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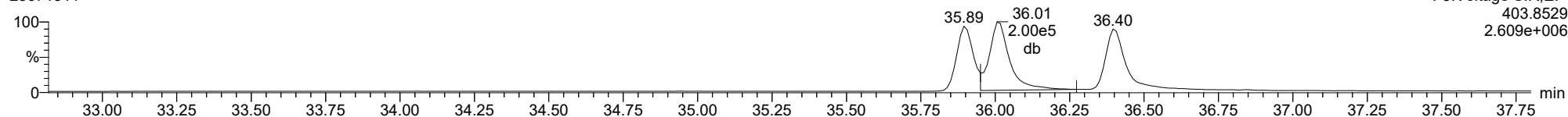
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13C-123678-HxCDD

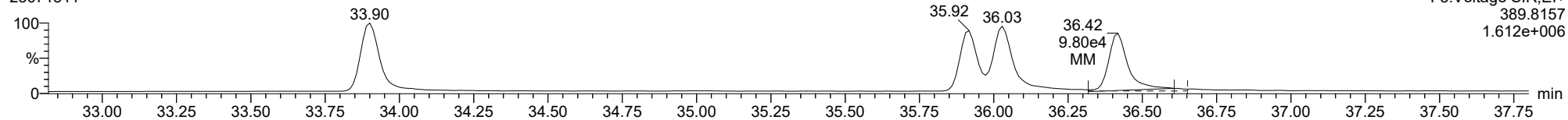
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

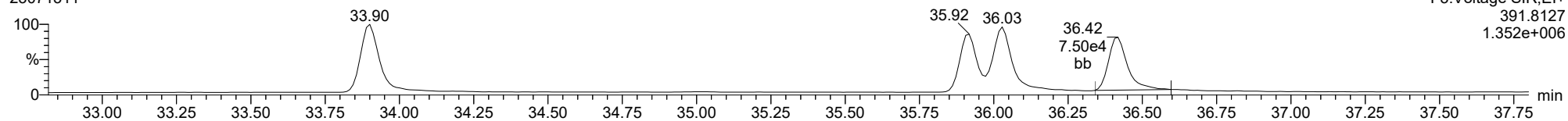
123789-HxCDD

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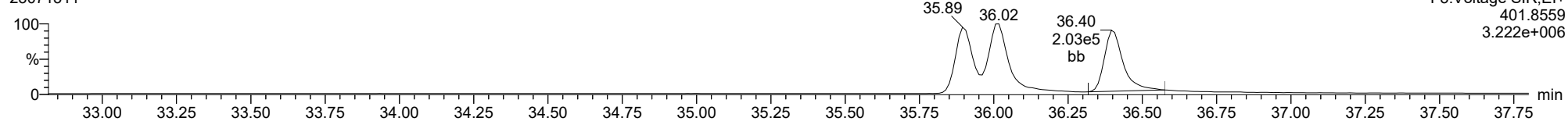
123789-HxCDD

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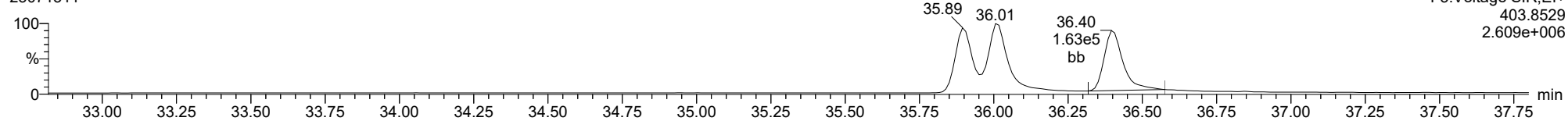
13C-123789-HxCDD

23071311



13C-123789-HxCDD

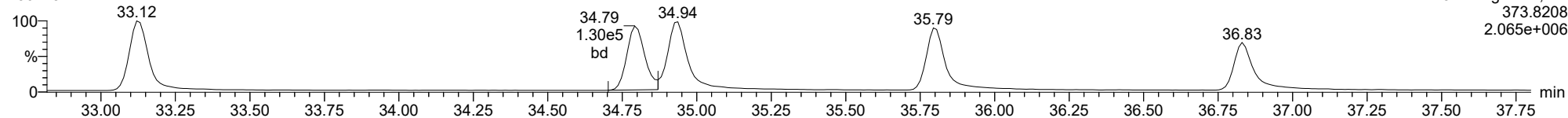
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

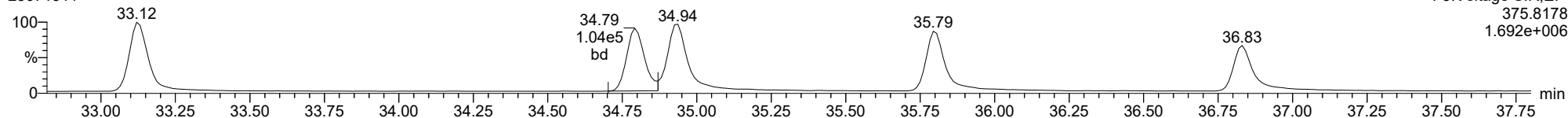
123478-HxCDF

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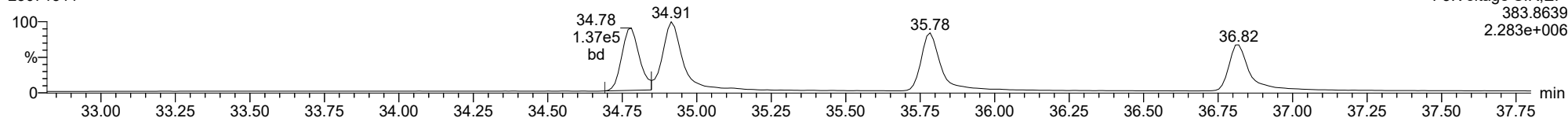
123478-HxCDF

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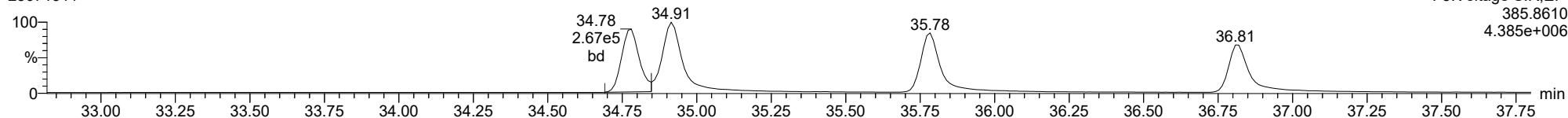
13C-123478-HxCDF

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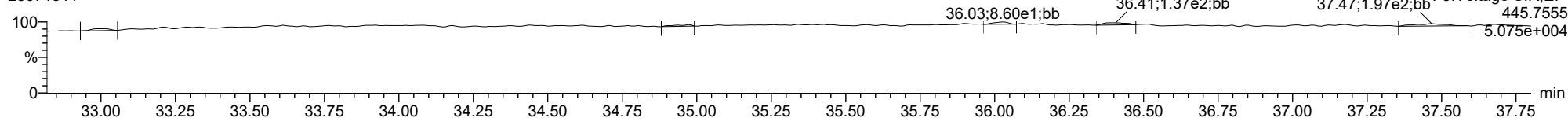
13C-123478-HxCDF

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FUNCTION3 OCDPE

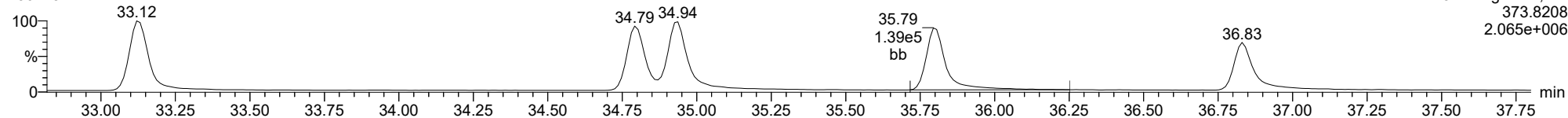
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

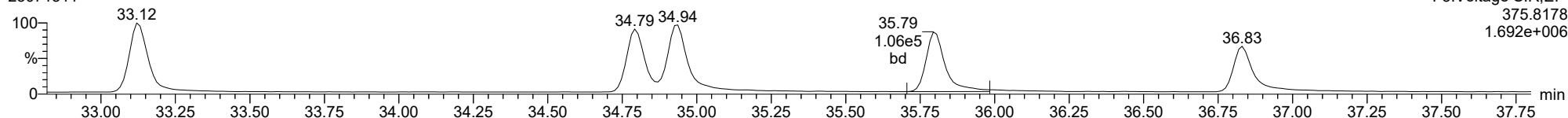
234678-HxCDF

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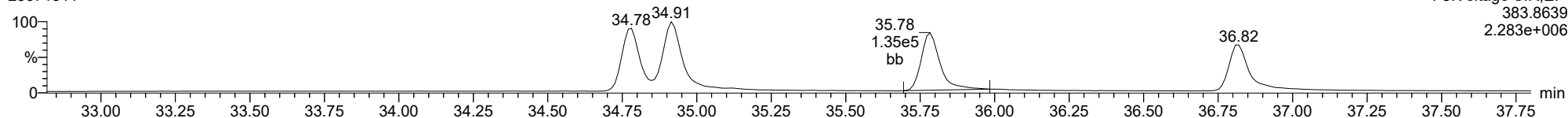
234678-HxCDF

23071311



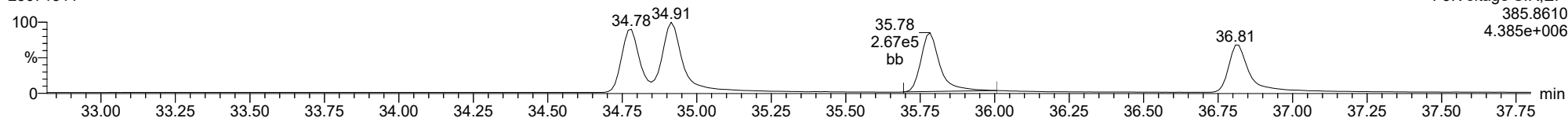
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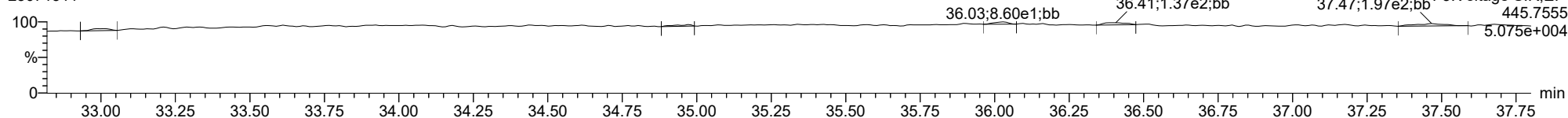
13C-234678-HxCDF

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FUNCTION3 OCDPE

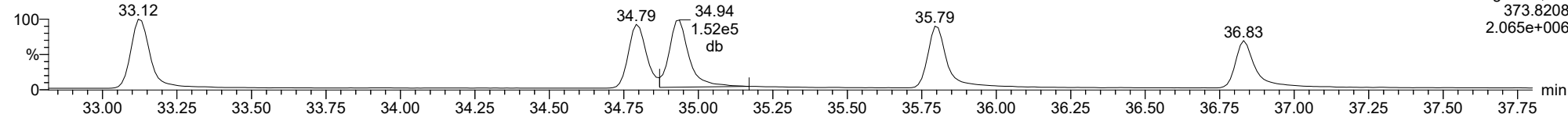
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

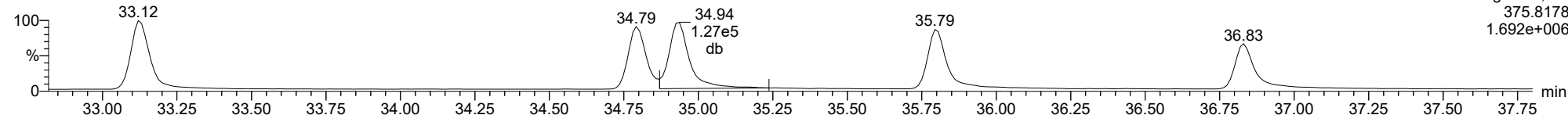
123678-HxCDF

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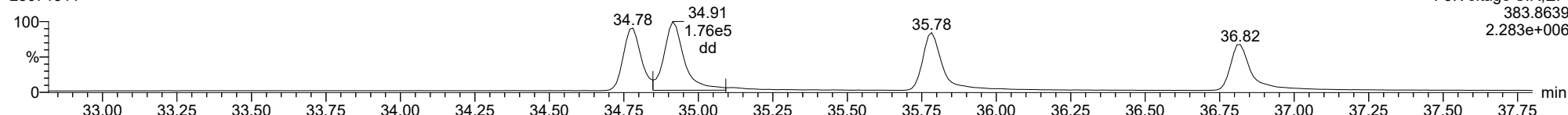
123678-HxCDF

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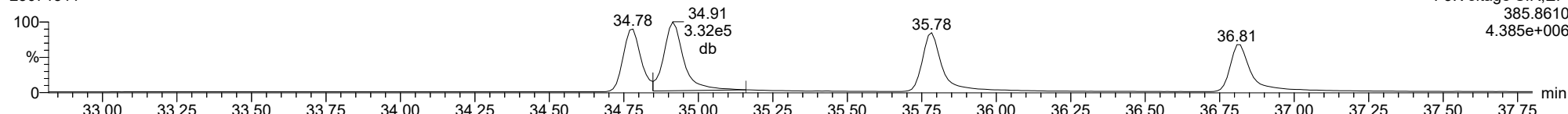
13C-123678-HxCDF

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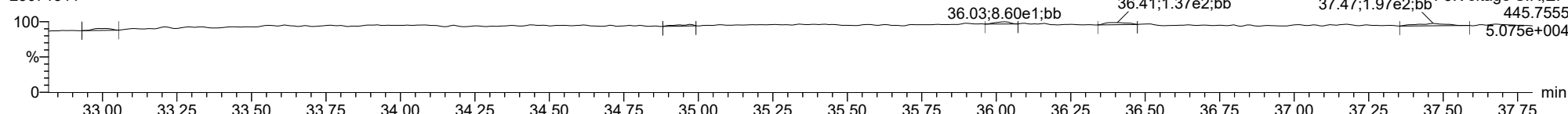
13C-123678-HxCDF

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FUNCTION3 OCDPE

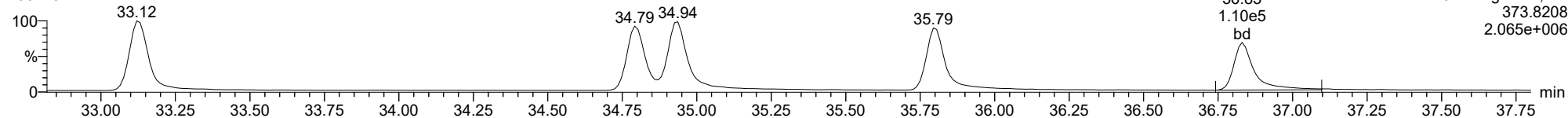
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

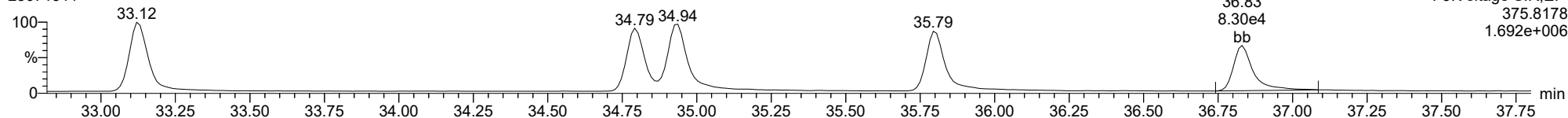
123789-HxCDF

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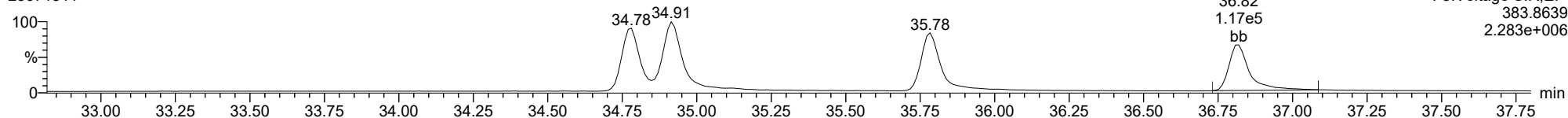
123789-HxCDF

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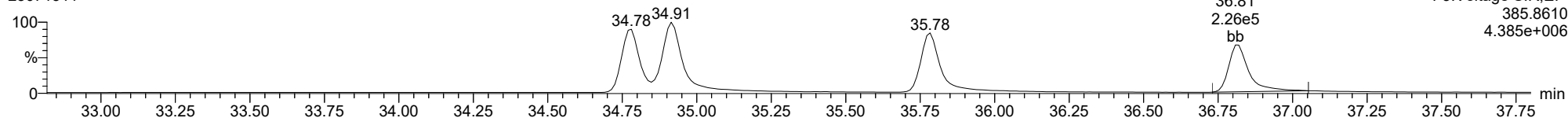
13C-123789-HxCDF

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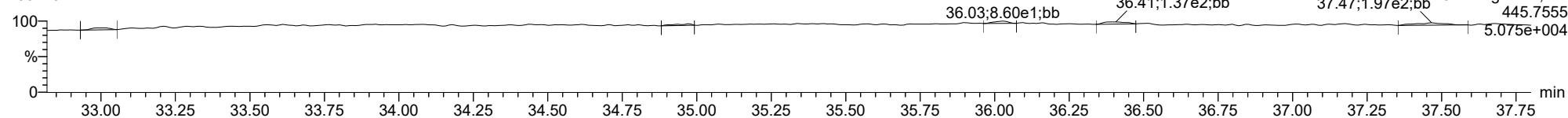
13C-123789-HxCDF

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FUNCTION3 OCDPE

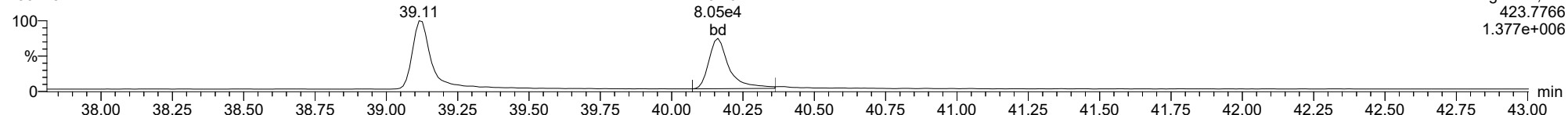
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

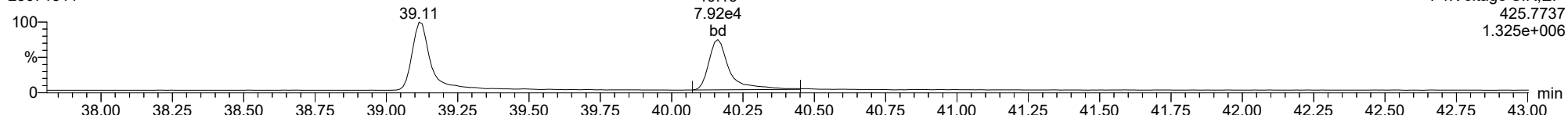
23071311



F4:Voltage SIR,El+
425.7766
1.377e+006

1234678-HpCDD

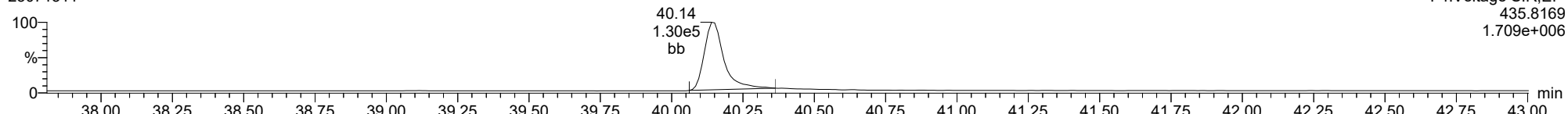
23071311



F4:Voltage SIR,El+
425.7737
1.325e+006

13C-1234678-HpCDD

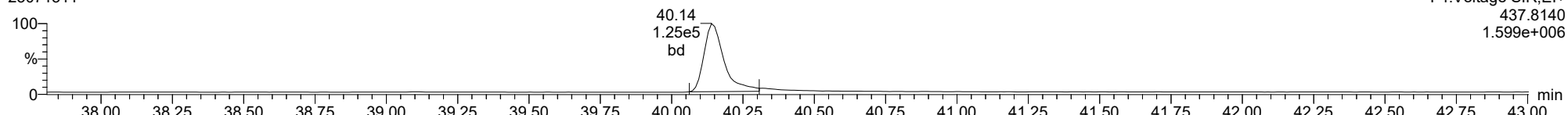
23071311



F4:Voltage SIR,El+
435.8169
1.709e+006

13C-1234678-HpCDD

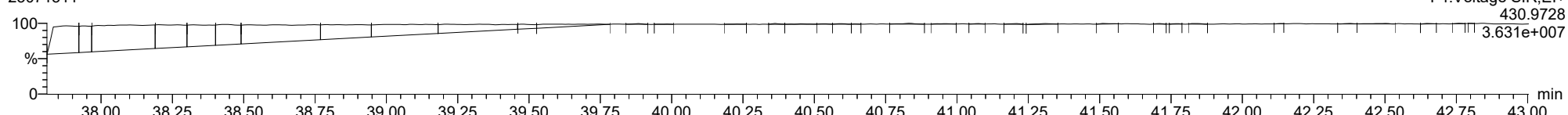
23071311



F4:Voltage SIR,El+
437.8140
1.599e+006

FUNCTION4 PFK

23071311

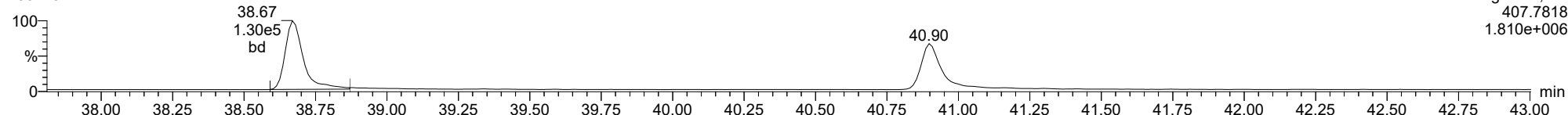


F4:Voltage SIR,El+
430.9728
3.631e+007

ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

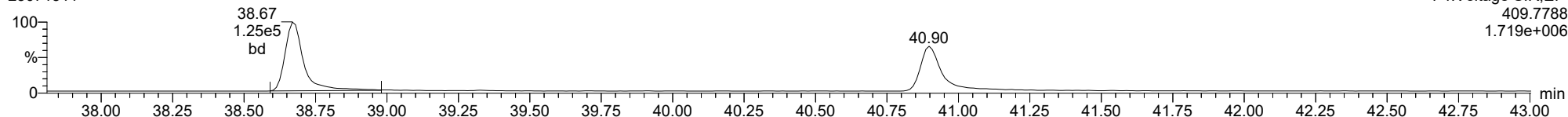
1234678-HpCDF

23071311



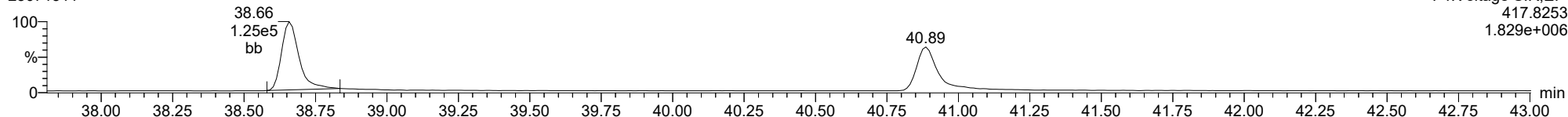
1234678-HpCDF

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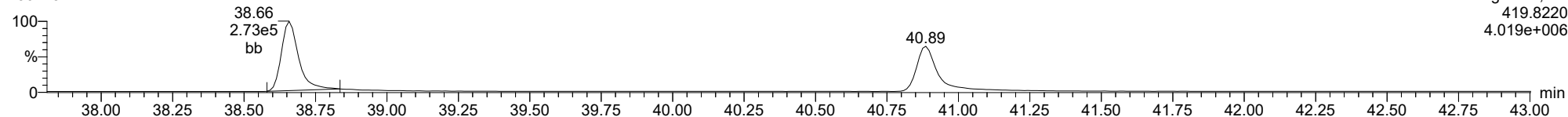
13C-1234678-HpCDF

23071311



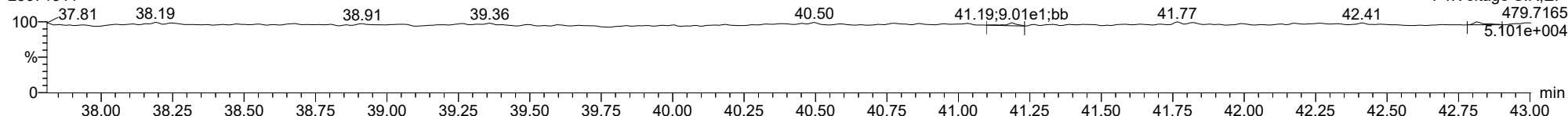
13C-1234678-HpCDF

23071311



FUNCTION4 NCDPE

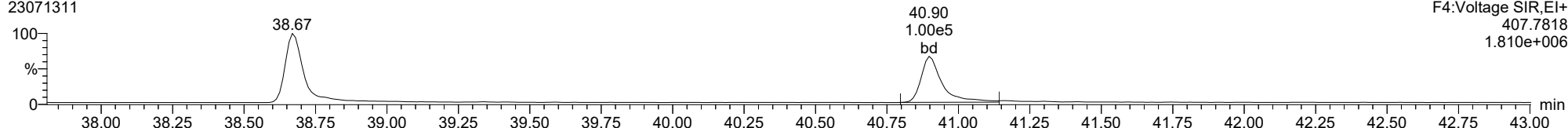
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

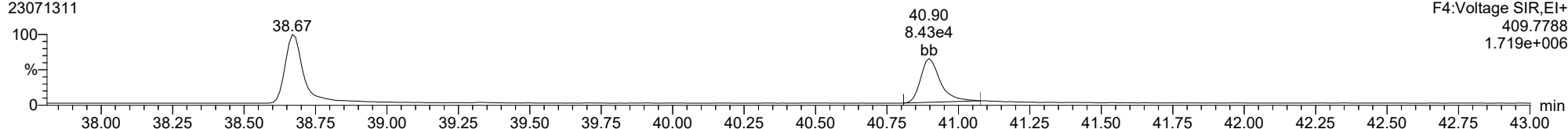
23071311



F4:Voltage SIR,EI+
407.7818
1.810e+006

1234789-HpCDF

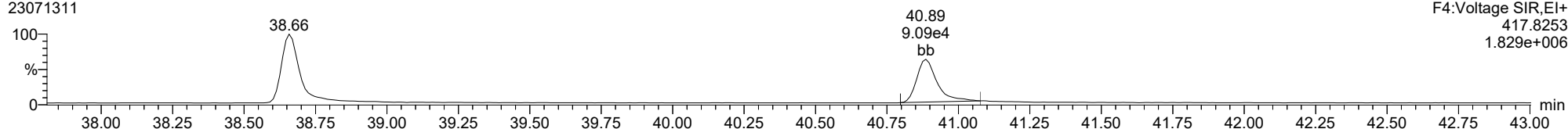
23071311



F4:Voltage SIR,EI+
409.7788
1.719e+006

13C-1234789-HpCDF

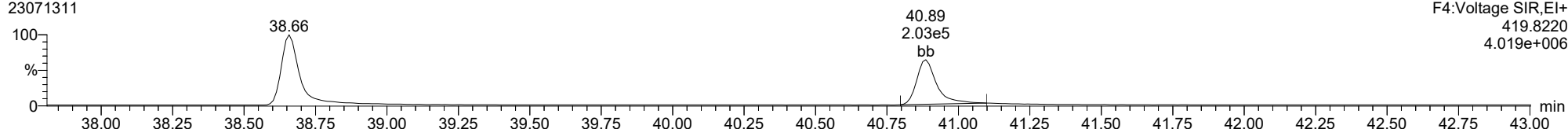
23071311



F4:Voltage SIR,EI+
417.8253
1.829e+006

13C-1234789-HpCDF

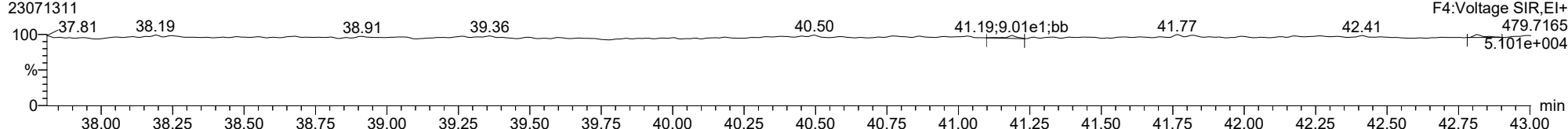
23071311



F4:Voltage SIR,EI+
419.8220
4.019e+006

FUNCTION4 NCDPE

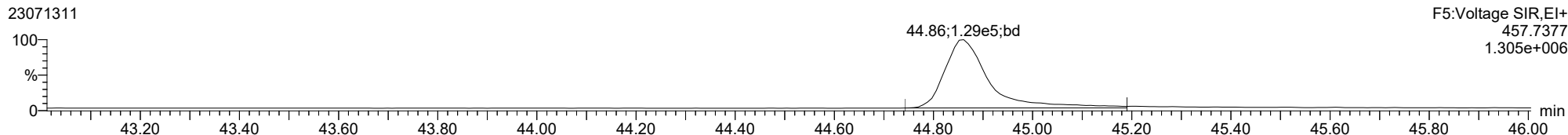
23071311



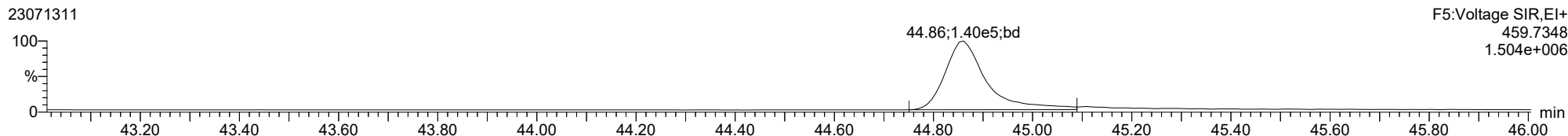
F4:Voltage SIR,EI+
479.7165
5.101e+004

ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

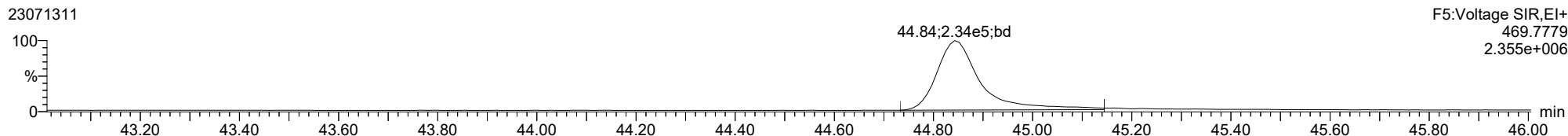
OCDD



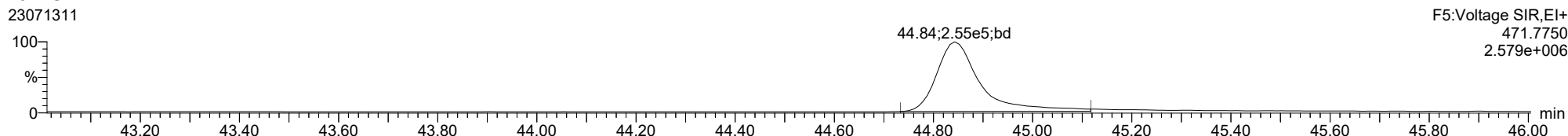
OCDD



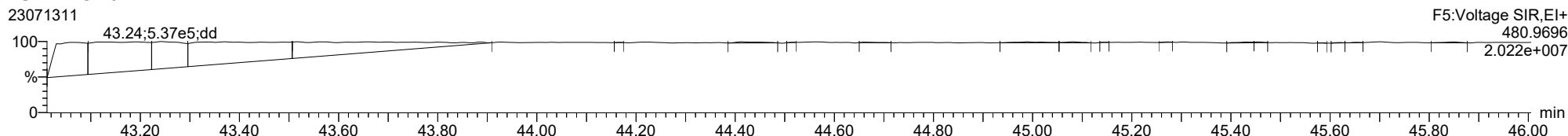
13C-OCDD



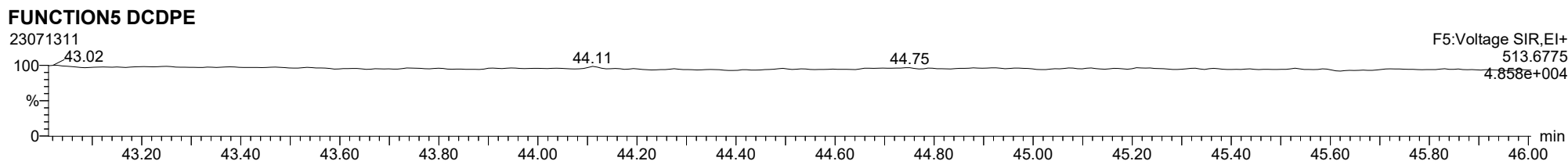
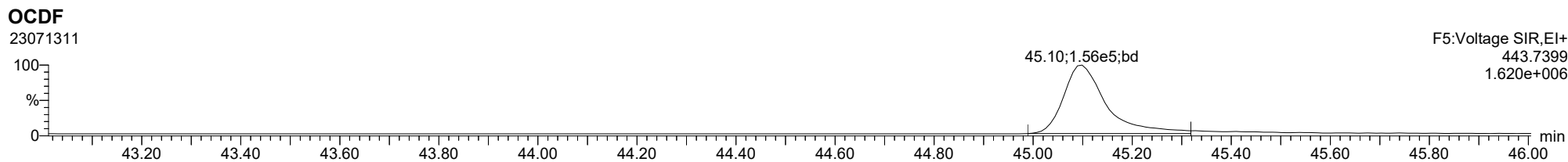
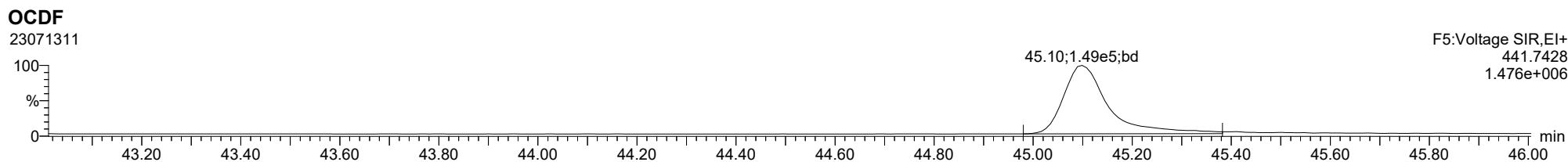
13C-OCDD



FUNCTION5 PFK



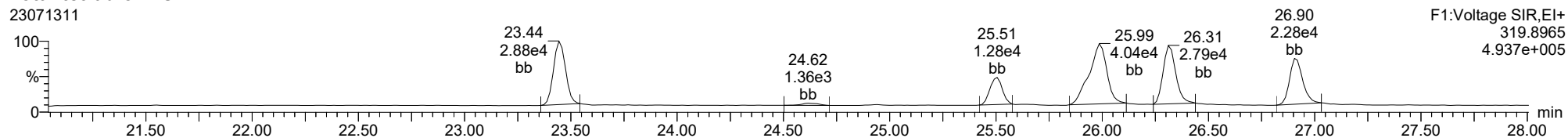
ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk



ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

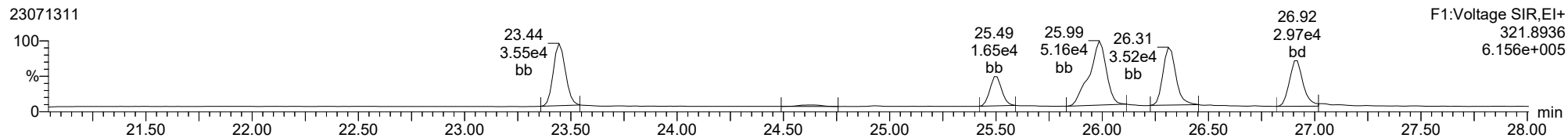
Total-tetradioxins

23071311



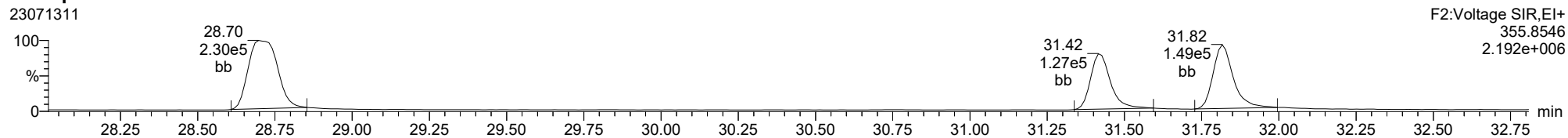
Total-tetradioxins

23071311



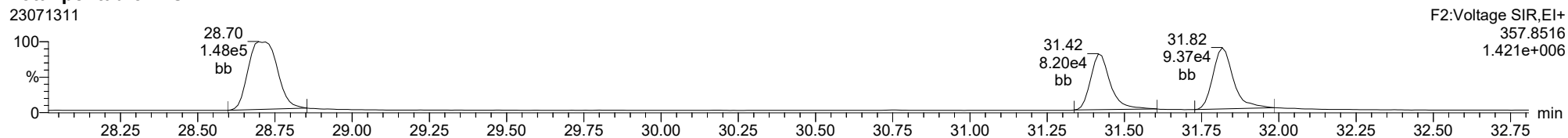
Total-pentadioxins

23071311



Total-pentadioxins

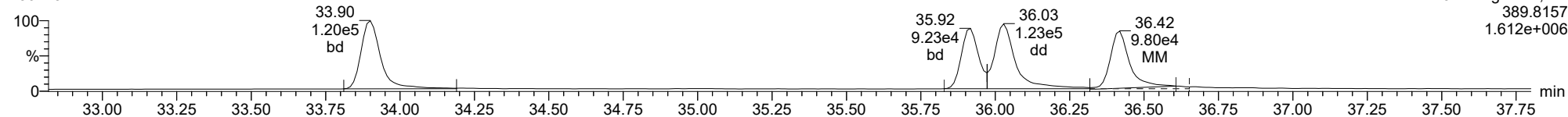
23071311



ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

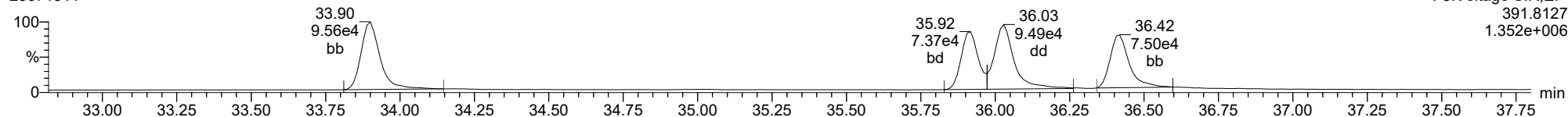
Total-hexadioxins

23071311



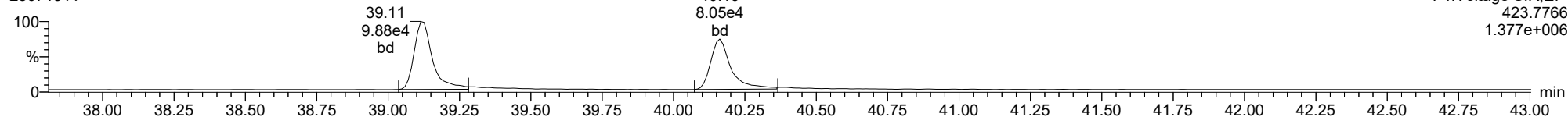
Total-hexadioxins

23071311



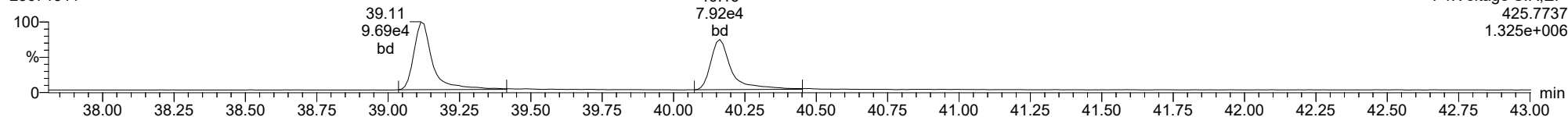
Total-heptadioxins

23071311



Total-heptadioxins

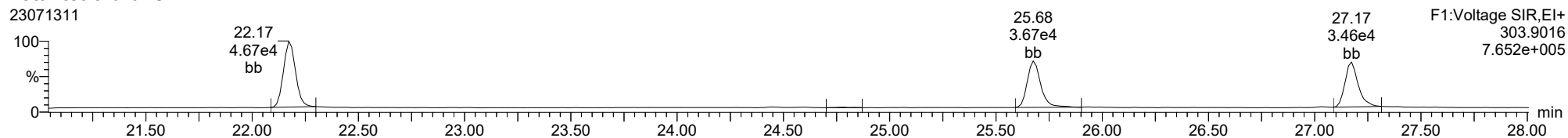
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

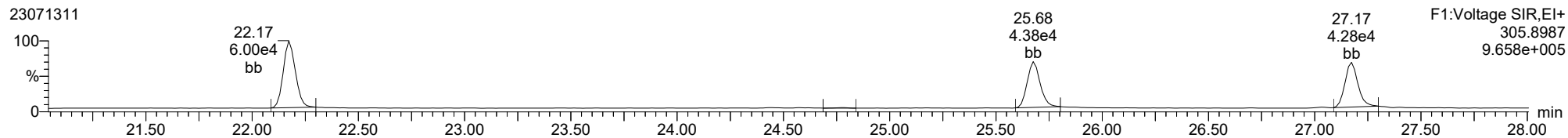
Total-tetrafurans

23071311



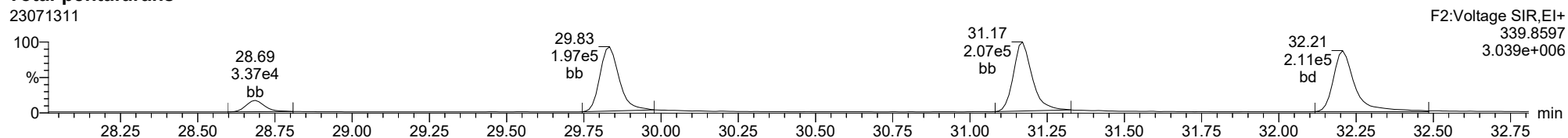
Total-tetrafurans

23071311



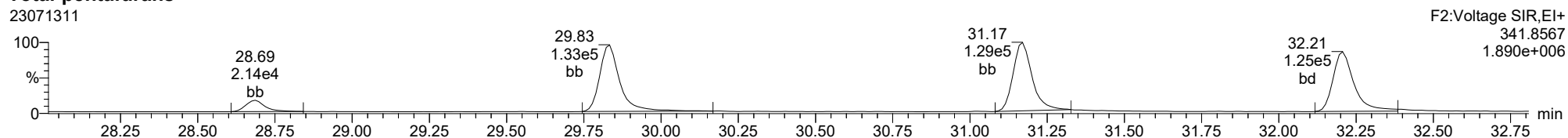
Total-pentafurans

23071311



Total-pentafurans

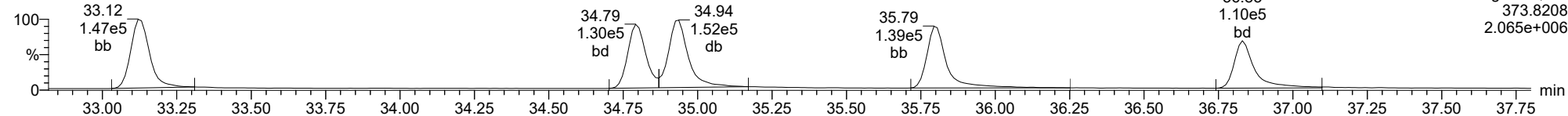
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ID: CS3A2, Name: 23071311, Date: 13-Jul-2023, Time: 18:58:48, Conditions: AUTOSPEC01, User: pk

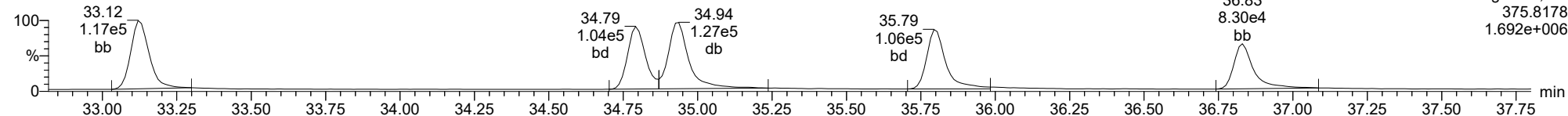
Total-hexafurans

23071311



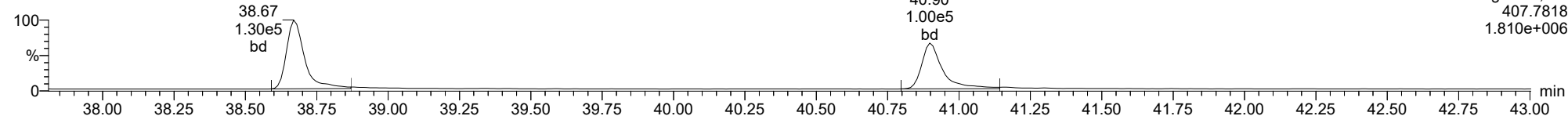
Total-hexafurans

23071311



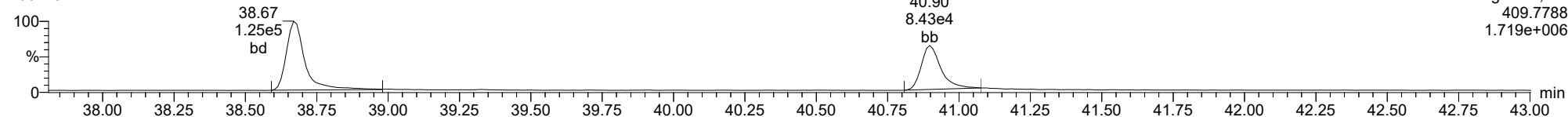
Total-heptafurans

23071311



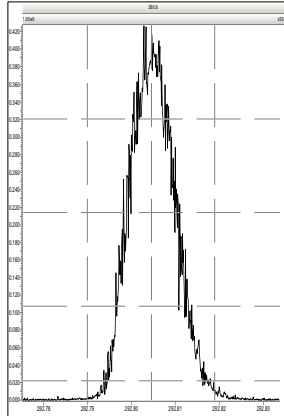
Total-heptafurans

23071311

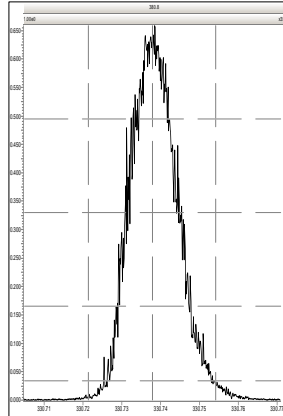


Printed: Thursday, July 13, 2023 19:51:38 Pacific Daylight Time

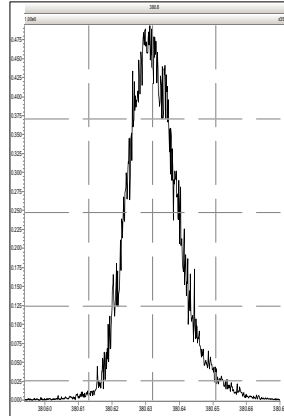
M 292.9824 R 13065



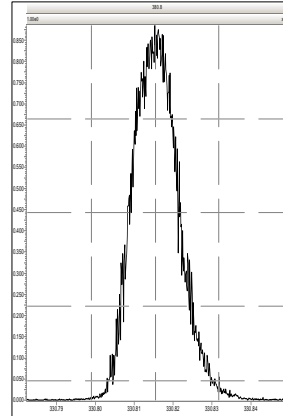
M 330.9792 R 12107



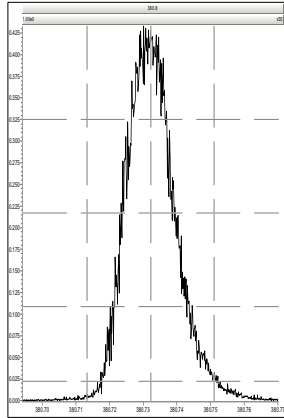
M 380.9760 R 11520



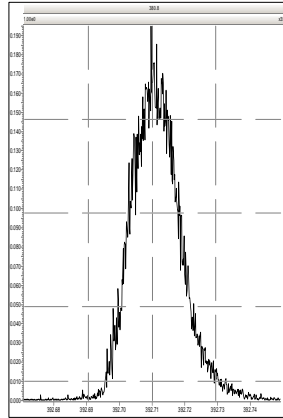
M 330.9792 R 12859



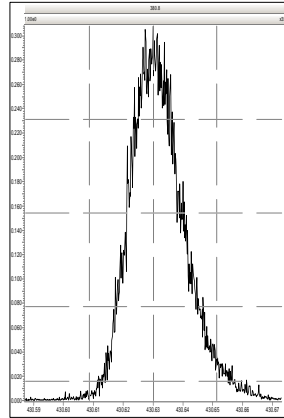
M 380.9760 R 11062



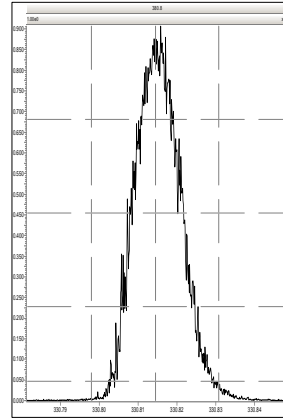
M 392.9760 R 11801



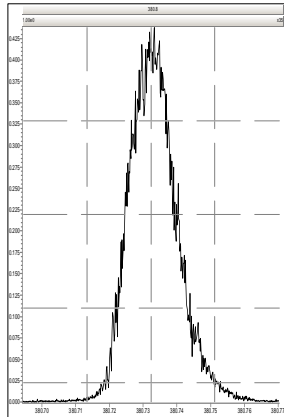
M 430.9728 R 10471



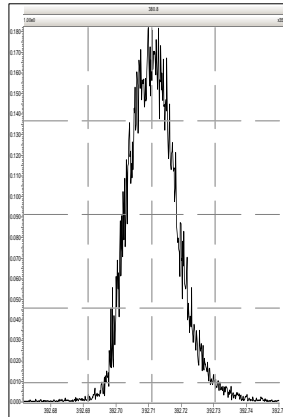
M 330.9792 R 12953



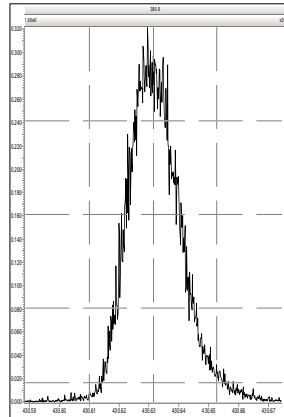
M 380.9760 R 11882



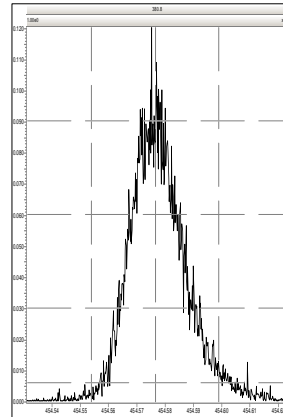
M 392.9760 R 11852



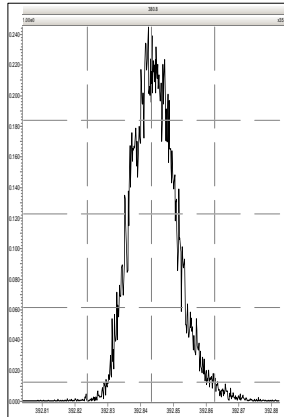
M 430.9728 R 10376



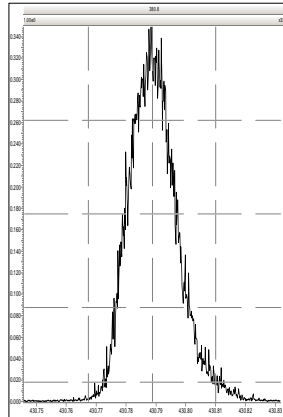
M 454.9728 R 9751



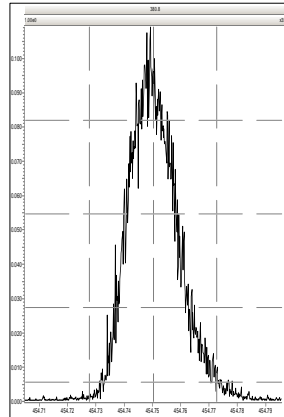
M 392.9760 R 13459



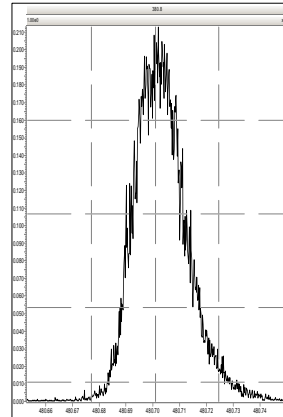
M 430.9728 R 11772



M 454.9728 R 11168

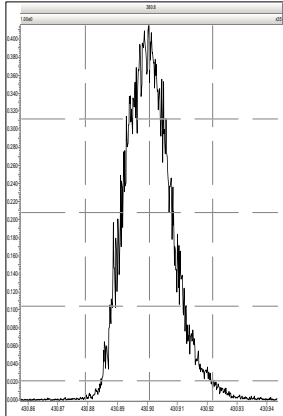


M 480.9696 R 10742

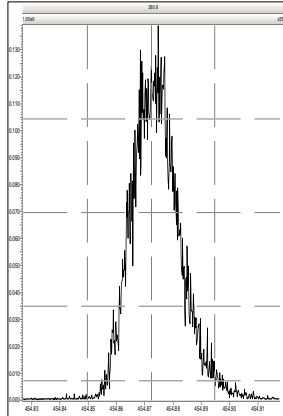


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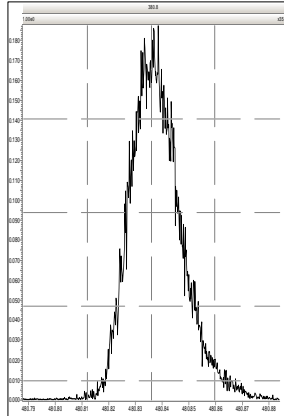
M 430.9728 R 11848



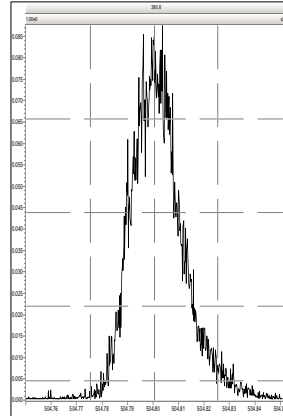
M 454.9728 R 12049



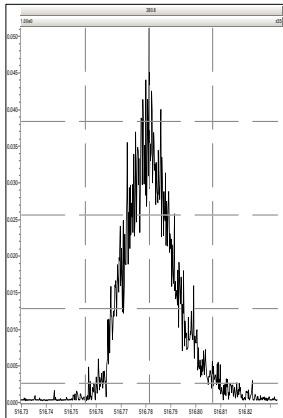
M 480.9696 R 11188



M 504.9696 R 10908



M 516.9697 R 10868

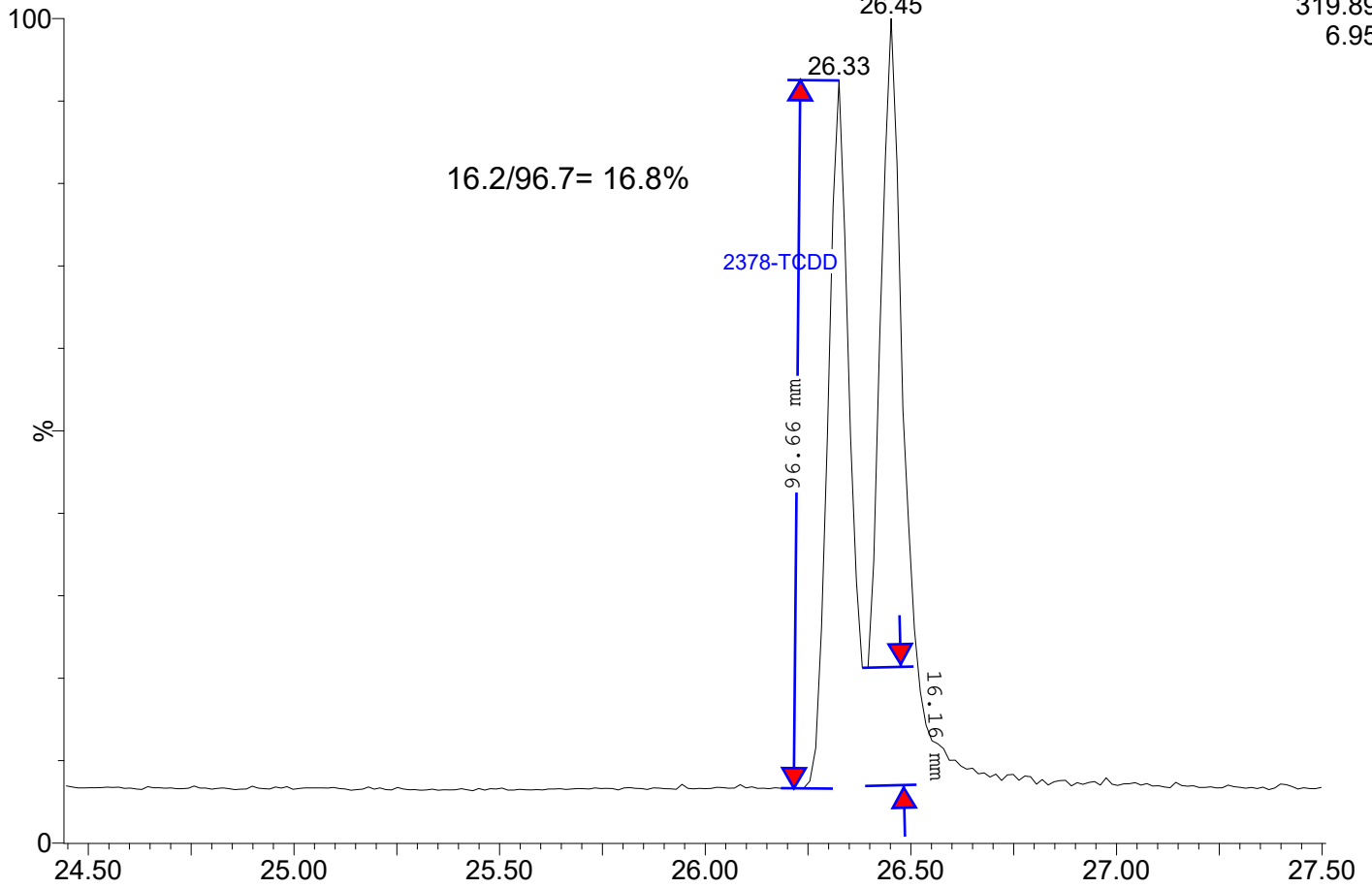


23071312

1: Voltage SIR 14 Channels EI+

319.8965

6.95e5

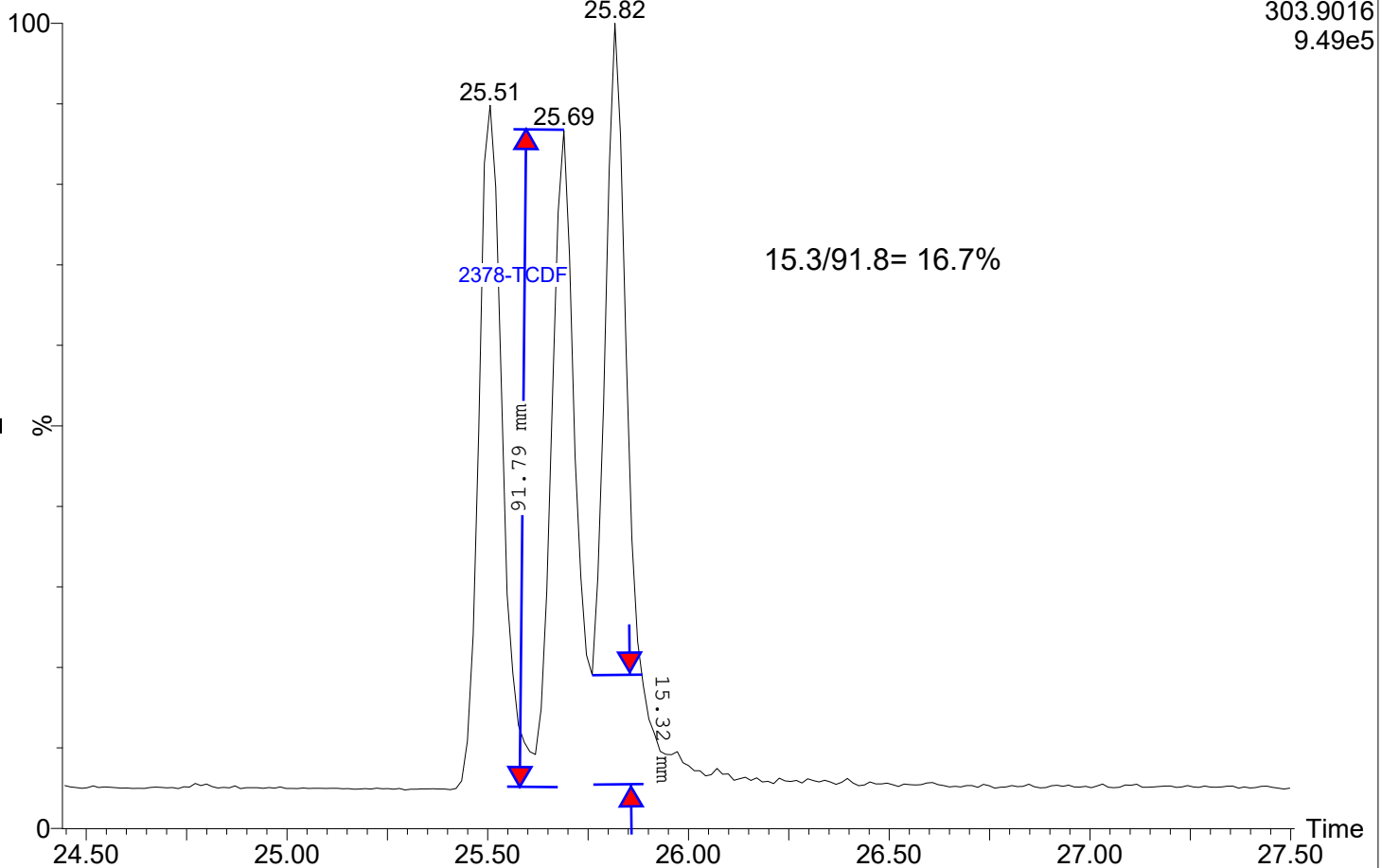


23071312

1: Voltage SIR 14 Channels EI+

303.9016

9.49e5





SECOND-SOURCE CALIBRATION VERIFICATION
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GG00074

Laboratory ID: SLG0149-SCV1

Sequence: SLG0149

Sequence Name: ICVCA

Standard ID: H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,3,7,8-TCDF	10.000	9.71	-2.9	
2,3,7,8-TCDD	10.000	9.84	-1.6	
1,2,3,7,8-PeCDF	50.000	48.6	-2.8	
2,3,4,7,8-PeCDF	50.000	48.9	-2.3	
1,2,3,7,8-PeCDD	50.000	52.1	4.2	
1,2,3,4,7,8-HxCDF	50.000	48.8	-2.5	
1,2,3,6,7,8-HxCDF	50.000	50.0	0.07	
2,3,4,6,7,8-HxCDF	50.000	54.9	9.9	
1,2,3,7,8,9-HxCDF	50.000	52.1	4.2	
1,2,3,4,7,8-HxCDD	50.000	51.6	3.2	
1,2,3,6,7,8-HxCDD	50.000	50.0	-0.07	
1,2,3,7,8,9-HxCDD	50.000	51.4	2.8	
1,2,3,4,6,7,8-HpCDF	50.000	52.3	4.5	
1,2,3,4,7,8,9-HpCDF	50.000	51.3	2.6	
1,2,3,4,6,7,8-HpCDD	50.000	53.6	7.2	
OCDF	100.00	88.6	-11.4	
OCDD	100.00	88.3	-11.7	
13C12-2,3,7,8-TCDF	100.00	101	0.5	
13C12-2,3,7,8-TCDD	100.00	103	3.3	
13C12-1,2,3,7,8-PeCDF	100.00	105	4.8	
13C12-2,3,4,7,8-PeCDF	100.00	104	4.1	
13C12-1,2,3,7,8-PeCDD	100.00	105	4.6	
13C12-1,2,3,4,7,8-HxCDF	100.00	97.7	-2.3	
13C12-1,2,3,6,7,8-HxCDF	100.00	99.6	-0.4	
13C12-2,3,4,6,7,8-HxCDF	100.00	95.1	-4.9	
13C12-1,2,3,7,8,9-HxCDF	100.00	95.0	-5.0	
13C12-1,2,3,4,7,8-HxCDD	100.00	100	0.005	
13C12-1,2,3,6,7,8-HxCDD	100.00	105	4.9	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	96.0	-4.0	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	99.4	-0.6	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	2.3	
13C12-OCDD	200.00	225	12.4	
37Cl4-2,3,7,8-TCDD	10.000	9.97	-0.3	



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 1613B

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Calibration: GG00074

Sequence: SLG0149

SDG: 23F0143

Project: AOC5 MR Phase 1

Laboratory ID: SLG0149-SCV1

Sequence Name: ICVCA

Standard ID: H008219

* Indicates values outside of QC limits



**SECOND-SOURCE
CALIBRATION VERIFICATION**

EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Calibration: GG00074

Laboratory ID: SLG0149-SCV1

Sequence: SLG0149

Standard ID: H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
OCDF	100.00	88.6	-11.4	
OCDD	100.00	88.3	-11.7	
13C12-2,3,7,8-TCDF	100.00	101	0.5	
13C12-2,3,7,8-TCDD	100.00	103	3.3	
13C12-1,2,3,7,8-PeCDF	100.00	105	4.8	
13C12-2,3,4,7,8-PeCDF	100.00	104	4.1	
13C12-1,2,3,7,8-PeCDD	100.00	105	4.6	
13C12-1,2,3,4,7,8-HxCDF	100.00	97.7	-2.3	
13C12-1,2,3,6,7,8-HxCDF	100.00	99.6	-0.4	
13C12-2,3,4,6,7,8-HxCDF	100.00	95.1	-4.9	
13C12-1,2,3,7,8,9-HxCDF	100.00	95.0	-5.0	
13C12-1,2,3,4,7,8-HxCDD	100.00	100	0.005	
13C12-1,2,3,6,7,8-HxCDD	100.00	105	4.9	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	96.0	-4.0	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	99.4	-0.6	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	2.3	
13C12-OCDD	200.00	225	12.4	
37Cl4-2,3,7,8-TCDD	10.000	9.97	-0.3	

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: AUTOSPEC01

Calibration: GG00074

Lab File ID: 23071302

Calibration Date: 07/13/2023

Sequence: SLG0149

Injection Date: 07/13/23

Lab Sample ID: SLG0149-ICV1

Injection Time: 10:17

Sequence Name: CS3A1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	10.5	0.9514111	0.9954326		4.6	+/-16
2,3,7,8-TCDD	A	10.000	9.65	1.1965450	1.1540910		-3.5	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.1	0.9629318	0.9451015		-1.9	+/-18
2,3,4,7,8-PeCDF	A	50.000	47.8	1.0720220	1.0257610		-4.3	+/-18
1,2,3,7,8-PeCDD	A	50.000	50.7	1.1294370	1.1450080		1.4	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	48.5	1.1416950	1.1066290		-3.1	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	48.3	1.0995640	1.0617810		-3.4	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	47.6	1.1377240	1.0834300		-4.8	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	49.1	1.0664070	1.0466050		-1.9	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	52.1	0.9171830	0.9560609		4.2	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	49.2	0.9440591	0.9284295		-1.7	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	52.8	0.8690250	0.9176638		5.6	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.7	1.2097500	1.1548660		-4.5	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.2	1.2126720	1.2408020		2.3	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	48.7	1.2367380	1.2049400		-2.6	+/-14
OCDF	A	100.00	82.8	1.3906120	1.1516720		-17.2	+/-37
OCDD	A	100.00	121	1.2124000	1.4637630		20.7	+/-21
13C12-2,3,7,8-TCDF	A	100.00	90.6	1.9196320	1.7387260		-9.4	+/-29
13C12-2,3,7,8-TCDD	A	100.00	103	1.1042880	1.1402699		3.3	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	98.6	1.4552880	1.4353393		-1.4	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	99.3	1.3628570	1.3539822		-0.7	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	99.2	0.7702446	0.7643379		-0.8	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	96.1	1.1186760	1.0753519		-3.9	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	88.8	1.3428140	1.1921281		-11.2	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	95.6	1.1125610	1.0634675		-4.4	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	95.1	0.9585411	0.9118735		-4.9	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	98.4	0.9591496	0.9439109		-1.6	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	99.2	1.1200970	1.1112461		-0.8	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	97.5	1.0583540	1.0318329		-2.5	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	100	0.8085515	0.8092572		0.09	+/-23

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>GG00074</u>
Lab File ID:	<u>23071302</u>	Calibration Date:	<u>07/13/2023</u>
Sequence:	<u>SLG0149</u>	Injection Date:	<u>07/13/23</u>
Lab Sample ID:	<u>SLG0149-ICV1</u>	Injection Time:	<u>10:17</u>
Sequence Name:	<u>CS3A1</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	115	0.6403352	0.7343672		14.7	+/-28
13C12-OCDD	A	200.00	230	0.5553207	0.6383828		15.0	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	10.3	1.1293930	1.1627281		3.0	

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor OEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: AUTOSPEC01

Calibration: GG00074

Lab File ID: 23073102

Calibration Date: 07/13/2023

Sequence: SLG0303

Injection Date: 07/31/23

Lab Sample ID: SLG0303-ICV1

Injection Time: 12:51

Sequence Name: CS3C1

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.71	0.9514111	0.9237677		-2.9	+/-16
2,3,7,8-TCDD	A	10.000	9.17	1.1965450	1.0968950		-8.3	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.6	0.9629318	0.9553554		-0.8	+/-18
2,3,4,7,8-PeCDF	A	50.000	48.3	1.0720220	1.0356790		-3.4	+/-18
1,2,3,7,8-PeCDD	A	50.000	52.2	1.1294370	1.1795780		4.4	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	50.0	1.1416950	1.1421570		0.04	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	50.4	1.0995640	1.1073030		0.7	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	51.5	1.1377240	1.1727680		3.1	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	49.9	1.0664070	1.0635590		-0.3	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	48.5	0.9171830	0.8903089		-2.9	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	47.8	0.9440591	0.9023806		-4.4	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	52.7	0.8690250	0.9155072		5.3	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	48.0	1.2097500	1.1617500		-4.0	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	49.7	1.2126720	1.2060110		-0.5	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	49.8	1.2367380	1.2323880		-0.4	+/-14
OCDF	A	100.00	83.7	1.3906120	1.1637990		-16.3	+/-37
OCDD	A	100.00	111	1.2124000	1.3446970		10.9	+/-21
13C12-2,3,7,8-TCDF	A	100.00	88.3	1.9196320	1.6944912		-11.7	+/-29
13C12-2,3,7,8-TCDD	A	100.00	107	1.1042880	1.1761244		6.5	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	107	1.4552880	1.5543288		6.8	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	107	1.3628570	1.4610134		7.2	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	107	0.7702446	0.8249312		7.1	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	85.7	1.1186760	0.9584748		-14.3	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	78.0	1.3428140	1.0476655		-22.0	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	84.4	1.1125610	0.9392426		-15.6	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	85.3	0.9585411	0.8171609		-14.7	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	93.1	0.9591496	0.8931849		-6.9	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	87.5	1.1200970	0.9801384		-12.5	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	93.3	1.0583540	0.9869737		-6.7	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	93.4	0.8085515	0.7551518		-6.6	+/-23

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Instrument ID:	<u>AUTOSPEC01</u>	Calibration:	<u>GG00074</u>
Lab File ID:	<u>23073102</u>	Calibration Date:	<u>07/13/2023</u>
Sequence:	<u>SLG0303</u>	Injection Date:	<u>07/31/23</u>
Lab Sample ID:	<u>SLG0303-ICV1</u>	Injection Time:	<u>12:51</u>
Sequence Name:	<u>CS3C1</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	109	0.6403352	0.6948356		8.5	+/-28
13C12-OCDD	A	200.00	252	0.5553207	0.6994846		26.0	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	10.4	1.1293930	1.1784188		4.3	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:19:32 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, 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	25.463	1.001	5.375e4	6.689e4	0.951	0.803	0.770	877	1267	8.23e5	1.00e6	938.2	789.4	NO	bb	bb	9.709
12378-PeCDF	29.615	1.001	3.537e5	2.185e5	0.963	1.618	1.550	2291	2198	5.18e6	3.24e6	2263.4	1475.9	NO	bb	bb	49.607
23478-PeCDF	30.952	1.001	3.611e5	2.220e5	1.072	1.626	1.550	2291	2198	5.42e6	3.34e6	2365.0	1519.6	NO	bb	bb	48.305
123478-HxCDF	34.584	1.001	2.478e5	1.983e5	1.142	1.249	1.240	2407	1968	3.78e6	3.02e6	1570.2	1534.6	NO	bd	bd	50.020
234678-HxCDF	35.586	1.000	2.528e5	1.961e5	1.138	1.289	1.240	2407	1968	3.64e6	2.91e6	1512.6	1479.7	NO	bd	bb	51.540
123678-HxCDF	34.717	1.000	2.646e5	2.081e5	1.100	1.271	1.240	2407	1968	3.92e6	3.06e6	1627.1	1555.1	NO	db	db	50.352
123789-HxCDF	36.623	1.000	1.984e5	1.558e5	1.066	1.273	1.240	2407	1968	3.03e6	2.39e6	1257.3	1214.4	NO	bb	bb	49.866
1234678-HpCDF	38.472	1.000	2.421e5	2.252e5	1.210	1.076	1.050	2066	2413	4.01e6	3.73e6	1941.5	1546.5	NO	bb	bb	48.016
1234789-HpCDF	40.667	1.000	1.965e5	1.746e5	1.213	1.126	1.050	2066	2413	2.68e6	2.53e6	1299.2	1048.4	NO	bd	bb	49.725
OCDF	44.810	1.006	3.244e5	3.391e5	1.391	0.956	0.890	2406	1299	3.57e6	3.92e6	1482.3	3021.6	NO	bd	bd	83.690
2378-TCDD	26.099	1.001	4.547e4	5.396e4	1.197	0.843	0.770	901	744	6.86e5	8.39e5	761.6	1127.2	NO	bb	bb	9.167
12378-PeCDD	31.197	1.001	2.286e5	1.463e5	1.129	1.562	1.550	1659	2521	3.41e6	2.18e6	2054.3	863.9	NO	bb	bb	52.220
123478-HxCDD	35.709	1.001	1.778e5	1.463e5	0.917	1.215	1.240	1524	1778	2.81e6	2.28e6	1846.5	1283.9	NO	bd	bd	48.535
123678-HxCDD	35.820	1.000	1.990e5	1.615e5	0.944	1.232	1.240	1524	1778	2.99e6	2.43e6	1958.8	1368.8	NO	db	db	47.793
123789-HxCDD	36.210	1.011	1.905e5	1.590e5	0.869	1.198	1.240	1524	1778	2.91e6	2.45e6	1908.9	1376.0	NO	bb	bb	52.675
1234678-HpCDD	39.943	1.000	1.741e5	1.749e5	1.237	0.996	1.050	2110	1562	2.66e6	2.60e6	1262.2	1664.6	NO	bb	bd	49.824
OCDD	44.581	1.000	3.604e5	4.062e5	1.212	0.887	0.890	2279	2320	4.35e6	4.91e6	1907.5	2117.1	NO	bb	bb	110.912
13C-2378-TCDF	25.449	1.007	5.753e5	7.306e5	1.920	0.787	0.770	1227	1154	8.60e6	1.09e7	7007.4	9426.5	NO	bb	bb	88.272
13C-12378-PeCDF	29.592	1.171	7.311e5	4.669e5	1.455	1.566	1.550	2939	2578	1.10e7	6.95e6	3737.2	2697.7	NO	bb	bb	106.806
13C-23478-PeCDF	30.929	1.224	6.833e5	4.427e5	1.363	1.544	1.550	2939	2578	1.02e7	6.59e6	3464.9	2556.6	NO	bb	bb	107.202
13C-123478-HxCDF	34.561	0.955	2.672e5	5.140e5	1.119	0.520	0.510	1904	2413	4.18e6	8.02e6	2193.4	3321.9	NO	bd	bd	85.679
13C-123678-HxCDF	34.706	0.959	2.937e5	5.602e5	1.343	0.524	0.510	1904	2413	4.18e6	8.04e6	2193.4	3333.8	NO	db	db	78.020
13C-234678-HxCDF	35.575	0.983	2.597e5	5.058e5	1.113	0.513	0.510	1904	2413	3.97e6	7.61e6	2083.1	3155.2	NO	bb	bb	84.422
13C-123789-HxCDF	36.611	1.011	2.272e5	4.388e5	0.959	0.518	0.510	1904	2413	3.39e6	6.63e6	1783.0	2749.5	NO	bb	bb	85.250
13C-1234678-HpCDF	38.461	1.062	2.612e5	5.433e5	1.058	0.481	0.440	1838	2421	4.14e6	9.08e6	2251.5	3750.2	NO	bd	bb	93.256
13C-1234789-HpCDF	40.656	1.123	1.914e5	4.241e5	0.809	0.451	0.440	1838	2421	2.76e6	6.15e6	1502.9	2541.7	NO	bb	bb	93.396
13C-1234-TCDD	25.266	0.000	3.420e5	4.287e5	1.000	0.798	0.770	1936	1048	5.25e6	6.65e6	2710.3	6344.4	NO	bb	bb	100.000
13C-2378-TCDD	26.085	1.032	4.017e5	5.048e5	1.104	0.796	0.770	1936	1048	5.91e6	7.41e6	3052.9	7067.1	NO	bb	bb	106.505
13C-12378-PeCDD	31.174	1.234	3.926e5	2.432e5	0.770	1.614	1.550	837	827	5.77e6	3.52e6	6894.1	4250.8	NO	bb	bb	107.100
13C-123478-HxCDD	35.687	0.986	4.064e5	3.216e5	0.959	1.264	1.240	2132	2034	6.35e6	5.03e6	2978.0	2473.4	NO	bd	bd	93.123
13C-123678-HxCDD	35.809	0.989	4.397e5	3.592e5	1.120	1.224	1.240	2132	2034	6.56e6	5.28e6	3078.2	2594.7	NO	db	db	87.505
13C-1234678-HpCDD	39.931	1.103	2.953e5	2.711e5	0.640	1.089	1.050	1914	1829	4.54e6	4.17e6	2371.5	2280.0	NO	bb	bb	108.511
13C-OCDD	44.562	1.231	5.383e5	6.020e5	0.555	0.894	0.890	2108	1557	6.83e6	7.58e6	3238.5	4866.6	NO	bb	bb	251.921
13C-123789-HxCDD	36.199	0.000	4.515e5	3.636e5	1.000	1.242	1.240	2132	2034	6.62e6	5.33e6	3105.2	2618.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.099	1.033	9.082e4		1.129			1119		1.39e6		1246.5			bb		10.434

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:19:32 Pacific Daylight Time

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.961	0.863	6.518e4	8.210e4	1.201	0.794	0.770	877	1267	1.03e6	1.28e6	1170.4	1009.2	NO	bb	bb	9.390
1289-TCDF	26.947	1.059	4.941e4	6.534e4	0.950	0.756	0.770	877	1267	7.23e5	8.98e5	824.1	708.7	NO	db	db	9.245
13468-PECDF	26.805	0.906	3.685e5	2.413e5	1.142	1.527	1.550	565	830	5.39e6	3.60e6	9547.1	4340.1	NO	bb	bb	44.552
12389-PECDF	31.976	1.081	3.425e5	2.128e5	0.917	1.610	1.550	2291	2198	4.97e6	3.05e6	2168.2	1388.9	NO	bb	bb	50.559
123468-HXCDF	32.901	0.952	2.622e5	2.057e5	1.332	1.275	1.240	2407	1968	3.83e6	3.04e6	1593.0	1546.6	NO	bb	bb	44.973
1368-TCDD	23.232	0.891	4.246e4	5.377e4	1.148	0.790	0.770	901	744	6.61e5	8.36e5	733.1	1123.9	NO	bb	bb	9.248
1289-TCDD	26.692	1.023	3.693e4	4.703e4	0.955	0.785	0.770	901	744	5.62e5	7.01e5	623.7	941.8	NO	bb	bb	9.700
12479-PECDD	28.478	0.914	4.090e5	2.596e5	2.043	1.575	1.550	1659	2521	3.95e6	2.47e6	2380.3	981.7	NO	bb	bb	51.484
12389-PECDD	31.587	1.013	2.732e5	1.725e5	1.326	1.584	1.550	1659	2521	3.94e6	2.51e6	2372.4	996.2	NO	bb	bb	52.881
124679-HXCDD	33.681	0.944	1.986e5	1.621e5	1.104	1.225	1.240	1524	1778	2.92e6	2.40e6	1914.8	1350.0	NO	bb	bb	44.897
1234679-HPCDD	38.918	0.975	2.111e5	1.892e5	1.554	1.115	1.050	2110	1562	3.28e6	3.04e6	1552.7	1945.4	NO	bd	bb	45.472
Total-tetrafurans			1.683e5		1.034			877		2.57e6							28.345
Total-penta1			3.685e5					565		5.39e6							44.552
Total-pentafurans			1.118e6		0.984			2291		1.65e7							157.111
Total-hexafurans			1.227e6		1.155			2407		1.82e7							246.901
Total-heptafurans			4.417e5		1.211			2066		6.74e6							98.399
Total-Furans			3.647e6		1.119			877		5.30e7							658.998
Total-tetradoxins			2.115e5		1.100			901		2.93e6							47.727
Total-pentadoxins			9.115e5		1.499			1659		1.13e7							156.709
Total-hexadoxins			7.660e5		0.958			1524		1.16e7							193.945
Total-heptadoxins			3.852e5		1.396			2110		5.94e6							95.297
Total-Dioxins			2.635e6		1.203			901		3.62e7							604.590
Total-TEQ			6.282e6					901		8.91e7							1263.588
FUNCTION1 PFK			3.384e5					381654		8.68e6							
FUNCTION2 PFK			2.227e5					196762		6.70e6							0.000
FUNCTION3 PFK			3.740e5					248868		9.79e6							0.000
FUNCTION4 PFK			1.195e7					190081		3.45e7							
FUNCTION5 PFK			3.458e3					137566		2.15e5							
FUNCTION1 HXCD...			1.167e3					485		1.65e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.120e3					693		2.09e4							0.000
FUNCTION3 OCDPE			3.505e2					589		5.27e3							0.000
FUNCTION4 NCDPE			1.517e2					680		2.52e3							0.000
FUNCTION5 DCDPE			0.000e0					470		0.00e0							

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:19:32 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.95	4.941e4	6.534e4	0.950	0.76	0.77	824.1	YES	NO	db	db	9.245
2	2378-TCDF	25.46	5.375e4	6.689e4	0.951	0.80	0.77	938.2	YES	NO	bb	bb	9.709
3	1368-TCDF	21.96	6.518e4	8.210e4	1.201	0.79	0.77	1170.4	YES	NO	bb	bb	9.390

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.81	3.685e5	2.413e5	1.142	1.53	1.55	9547.1	YES	NO	bb	bb	44.552

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	30.95	3.611e5	2.220e5	1.072	1.63	1.55	2365.0	YES	NO	bb	bb	48.305
2	Total-pentafurans	30.82	4.772e2	3.511e2	0.984	1.36	1.55	4.7	YES	NO	bb	bb	0.072
3	12378-PeCDF	29.61	3.537e5	2.185e5	0.963	1.62	1.55	2263.4	YES	NO	bb	bb	49.607
4	Total-pentafurans	28.47	5.984e4	3.812e4	0.984	1.57	1.55	390.5	YES	NO	bb	bb	8.568
5	12389-PECDF	31.98	3.425e5	2.128e5	0.917	1.61	1.55	2168.2	YES	NO	bb	bb	50.559

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.62	1.984e5	1.558e5	1.066	1.27	1.24	1257.3	YES	NO	bb	bb	49.866
2	234678-HxCDF	35.59	2.528e5	1.961e5	1.138	1.29	1.24	1512.6	YES	NO	bd	bb	51.540
3	123678-HxCDF	34.72	2.646e5	2.081e5	1.100	1.27	1.24	1627.1	YES	NO	db	db	50.352
4	123478-HxCDF	34.58	2.478e5	1.983e5	1.142	1.25	1.24	1570.2	YES	NO	bd	bd	50.020
5	Total-hexafurans	33.96	7.545e2	5.662e2	1.155	1.33	1.24	4.6	YES	NO	bb	bb	0.149
6	123468-HXCDF	32.90	2.622e5	2.057e5	1.332	1.27	1.24	1593.0	YES	NO	bb	bb	44.973

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.12	3.041e3	2.617e3	1.211	1.16	1.05	21.0	YES	NO	bb	bb	0.658
2	1234678-HpCDF	38.47	2.421e5	2.252e5	1.210	1.08	1.05	1941.5	YES	NO	bb	bb	48.016
3	1234789-HpCDF	40.67	1.965e5	1.746e5	1.213	1.13	1.05	1299.2	YES	NO	bd	bb	49.725

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

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

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.95	4.941e4	6.534e4	0.950	0.76	0.77	824.1	YES	NO	db	db	9.245
2	2378-TCDF	25.46	5.375e4	6.689e4	0.951	0.80	0.77	938.2	YES	NO	bb	bb	9.709
3	1368-TCDF	21.96	6.518e4	8.210e4	1.201	0.79	0.77	1170.4	YES	NO	bb	bb	9.390
4	23478-PeCDF	30.95	3.611e5	2.220e5	1.072	1.63	1.55	2365.0	YES	NO	bb	bb	48.305
5	Total-pentafurans	30.82	4.772e2	3.511e2	0.984	1.36	1.55	4.7	YES	NO	bb	bb	0.072
6	12378-PeCDF	29.61	3.537e5	2.185e5	0.963	1.62	1.55	2263.4	YES	NO	bb	bb	49.607
7	Total-pentafurans	28.47	5.984e4	3.812e4	0.984	1.57	1.55	390.5	YES	NO	bb	bb	8.568
8	12389-PECDF	31.98	3.425e5	2.128e5	0.917	1.61	1.55	2168.2	YES	NO	bb	bb	50.559
9	123789-HxCDF	36.62	1.984e5	1.558e5	1.066	1.27	1.24	1257.3	YES	NO	bb	bb	49.866
10	234678-HxCDF	35.59	2.528e5	1.961e5	1.138	1.29	1.24	1512.6	YES	NO	bd	bb	51.540
11	123678-HxCDF	34.72	2.646e5	2.081e5	1.100	1.27	1.24	1627.1	YES	NO	db	db	50.352
12	123478-HxCDF	34.58	2.478e5	1.983e5	1.142	1.25	1.24	1570.2	YES	NO	bd	bd	50.020
13	Total-hexafurans	33.96	7.545e2	5.662e2	1.155	1.33	1.24	4.6	YES	NO	bb	bb	0.149
14	123468-HXCDF	32.90	2.622e5	2.057e5	1.332	1.27	1.24	1593.0	YES	NO	bb	bb	44.973
15	Total-heptafurans	39.12	3.041e3	2.617e3	1.211	1.16	1.05	21.0	YES	NO	bb	bb	0.658
16	1234678-HpCDF	38.47	2.421e5	2.252e5	1.210	1.08	1.05	1941.5	YES	NO	bb	bb	48.016
17	1234789-HpCDF	40.67	1.965e5	1.746e5	1.213	1.13	1.05	1299.2	YES	NO	bd	bb	49.725
18	OCDF	44.81	3.244e5	3.391e5	1.391	0.96	0.89	1482.3	YES	NO	bd	bd	83.690
19	13468-PECDF	26.81	3.685e5	2.413e5	1.142	1.53	1.55	9547.1	YES	NO	bb	bb	44.552

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradoxins	25.28	2.071e4	2.621e4	1.100	0.79	0.77	353.1	YES	NO	bb	bb	4.706
2	1368-TCDD	23.23	4.246e4	5.377e4	1.148	0.79	0.77	733.1	YES	NO	bb	bb	9.248
3	1289-TCDD	26.69	3.693e4	4.703e4	0.955	0.79	0.77	623.7	YES	NO	bb	bb	9.700
4	2378-TCDD	26.10	4.547e4	5.396e4	1.197	0.84	0.77	761.6	YES	NO	bb	bb	9.167
5	Total-tetradoxins	25.77	6.596e4	8.265e4	1.100	0.80	0.77	777.3	YES	NO	bb	bb	14.906

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.59	2.732e5	1.725e5	1.326	1.58	1.55	2372.4	YES	NO	bb	bb	52.881
2	12378-PeCDD	31.20	2.286e5	1.463e5	1.129	1.56	1.55	2054.3	YES	NO	bb	bb	52.220
3	Total-pentadoxins	29.60	6.895e2	4.964e2	1.499	1.39	1.55	6.5	NO	NO	bb	bb	0.124
4	12479-PECDD	28.48	4.090e5	2.596e5	2.043	1.58	1.55	2380.3	YES	NO	bb	bb	51.484

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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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	36.21	1.905e5	1.590e5	0.869	1.20	1.24	1908.9	YES	NO	bb	bb	52.675
2	123678-HxCDD	35.82	1.990e5	1.615e5	0.944	1.23	1.24	1958.8	YES	NO	db	db	47.793
3	123478-HxCDD	35.71	1.778e5	1.463e5	0.917	1.22	1.24	1846.5	YES	NO	bd	bd	48.535
4	124679-HXCDD	33.68	1.986e5	1.621e5	1.104	1.22	1.24	1914.8	YES	NO	bb	bb	44.897
5	Total-hexadioxins	36.67	1.809e2	1.540e2	0.958	1.17	1.24	3.5	YES	NO	db	db	0.046

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.94	1.741e5	1.749e5	1.237	1.00	1.05	1262.2	YES	NO	bb	bd	49.824
2	1234679-HPCDD	38.92	2.111e5	1.892e5	1.554	1.12	1.05	1552.7	YES	NO	bd	bb	45.472

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.28	2.071e4	2.621e4	1.100	0.79	0.77	353.1	YES	NO	bb	bb	4.706
2	1368-TCDD	23.23	4.246e4	5.377e4	1.148	0.79	0.77	733.1	YES	NO	bb	bb	9.248
3	1289-TCDD	26.69	3.693e4	4.703e4	0.955	0.79	0.77	623.7	YES	NO	bb	bb	9.700
4	2378-TCDD	26.10	4.547e4	5.396e4	1.197	0.84	0.77	761.6	YES	NO	bb	bb	9.167
5	Total-tetradioxins	25.77	6.596e4	8.265e4	1.100	0.80	0.77	777.3	YES	NO	bb	bb	14.906
6	12389-PECDD	31.59	2.732e5	1.725e5	1.326	1.58	1.55	2372.4	YES	NO	bb	bb	52.881
7	12378-PeCDD	31.20	2.286e5	1.463e5	1.129	1.56	1.55	2054.3	YES	NO	bb	bb	52.220
8	Total-pentadioxins	29.60	6.895e2	4.964e2	1.499	1.39	1.55	6.5	NO	NO	bb	bb	0.124
9	12479-PECDD	28.48	4.090e5	2.596e5	2.043	1.58	1.55	2380.3	YES	NO	bb	bb	51.484
10	123789-HxCDD	36.21	1.905e5	1.590e5	0.869	1.20	1.24	1908.9	YES	NO	bb	bb	52.675
11	123678-HxCDD	35.82	1.990e5	1.615e5	0.944	1.23	1.24	1958.8	YES	NO	db	db	47.793
12	123478-HxCDD	35.71	1.778e5	1.463e5	0.917	1.22	1.24	1846.5	YES	NO	bd	bd	48.535
13	124679-HXCDD	33.68	1.986e5	1.621e5	1.104	1.22	1.24	1914.8	YES	NO	bb	bb	44.897
14	Total-hexadioxins	36.67	1.809e2	1.540e2	0.958	1.17	1.24	3.5	YES	NO	db	db	0.046
15	1234678-HpCDD	39.94	1.741e5	1.749e5	1.237	1.00	1.05	1262.2	YES	NO	bb	bd	49.824
16	1234679-HPCDD	38.92	2.111e5	1.892e5	1.554	1.12	1.05	1552.7	YES	NO	bd	bb	45.472
17	OCDD	44.58	3.604e5	4.062e5	1.212	0.89	0.89	1907.5	YES	NO	bb	bb	110.912

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.95	4.941e4	6.534e4	0.950	0.76	0.77	824.1	YES	NO	db	db	9.245
2	2378-TCDF	25.46	5.375e4	6.689e4	0.951	0.80	0.77	938.2	YES	NO	bb	bb	9.709
3	1368-TCDF	21.96	6.518e4	8.210e4	1.201	0.79	0.77	1170.4	YES	NO	bb	bb	9.390
4	23478-PeCDF	30.95	3.611e5	2.220e5	1.072	1.63	1.55	2365.0	YES	NO	bb	bb	48.305
5	Total-pentafurans	30.82	4.772e2	3.511e2	0.984	1.36	1.55	4.7	YES	NO	bb	bb	0.072
6	12378-PeCDF	29.61	3.537e5	2.185e5	0.963	1.62	1.55	2263.4	YES	NO	bb	bb	49.607
7	Total-pentafurans	28.47	5.984e4	3.812e4	0.984	1.57	1.55	390.5	YES	NO	bb	bb	8.568
8	12389-PECDF	31.98	3.425e5	2.128e5	0.917	1.61	1.55	2168.2	YES	NO	bb	bb	50.559
9	123789-HxCDF	36.62	1.984e5	1.558e5	1.066	1.27	1.24	1257.3	YES	NO	bb	bb	49.866
10	234678-HxCDF	35.59	2.528e5	1.961e5	1.138	1.29	1.24	1512.6	YES	NO	bd	bb	51.540
11	123678-HxCDF	34.72	2.646e5	2.081e5	1.100	1.27	1.24	1627.1	YES	NO	db	db	50.352
12	123478-HxCDF	34.58	2.478e5	1.983e5	1.142	1.25	1.24	1570.2	YES	NO	bd	bd	50.020
13	Total-hexafurans	33.96	7.545e2	5.662e2	1.155	1.33	1.24	4.6	YES	NO	bb	bb	0.149
14	123468-HXCDF	32.90	2.622e5	2.057e5	1.332	1.27	1.24	1593.0	YES	NO	bb	bb	44.973
15	Total-heptafurans	39.12	3.041e3	2.617e3	1.211	1.16	1.05	21.0	YES	NO	bb	bb	0.658
16	1234678-HpCDF	38.47	2.421e5	2.252e5	1.210	1.08	1.05	1941.5	YES	NO	bb	bb	48.016
17	1234789-HpCDF	40.67	1.965e5	1.746e5	1.213	1.13	1.05	1299.2	YES	NO	bd	bb	49.725
18	OCDF	44.81	3.244e5	3.391e5	1.391	0.96	0.89	1482.3	YES	NO	bd	bd	83.690
19	13468-PECDF	26.81	3.685e5	2.413e5	1.142	1.53	1.55	9547.1	YES	NO	bb	bb	44.552
20	Total-tetradiioxins	25.28	2.071e4	2.621e4	1.100	0.79	0.77	353.1	YES	NO	bb	bb	4.706
21	1368-TCDD	23.23	4.246e4	5.377e4	1.148	0.79	0.77	733.1	YES	NO	bb	bb	9.248
22	1289-TCDD	26.69	3.693e4	4.703e4	0.955	0.79	0.77	623.7	YES	NO	bb	bb	9.700
23	2378-TCDD	26.10	4.547e4	5.396e4	1.197	0.84	0.77	761.6	YES	NO	bb	bb	9.167
24	Total-tetradiioxins	25.77	6.596e4	8.265e4	1.100	0.80	0.77	777.3	YES	NO	bb	bb	14.906
25	12389-PECDD	31.59	2.732e5	1.725e5	1.326	1.58	1.55	2372.4	YES	NO	bb	bb	52.881
26	12378-PeCDD	31.20	2.286e5	1.463e5	1.129	1.56	1.55	2054.3	YES	NO	bb	bb	52.220
27	Total-pentadiioxins	29.60	6.895e2	4.964e2	1.499	1.39	1.55	6.5	NO	NO	bb	bb	0.124
28	12479-PECDD	28.48	4.090e5	2.596e5	2.043	1.58	1.55	2380.3	YES	NO	bb	bb	51.484
29	123789-HxCDD	36.21	1.905e5	1.590e5	0.869	1.20	1.24	1908.9	YES	NO	bb	bb	52.675
30	123678-HxCDD	35.82	1.990e5	1.615e5	0.944	1.23	1.24	1958.8	YES	NO	db	db	47.793
31	123478-HxCDD	35.71	1.778e5	1.463e5	0.917	1.22	1.24	1846.5	YES	NO	bd	bd	48.535
32	124679-HXCDD	33.68	1.986e5	1.621e5	1.104	1.22	1.24	1914.8	YES	NO	bb	bb	44.897
33	Total-hexadiioxins	36.67	1.809e2	1.540e2	0.958	1.17	1.24	3.5	YES	NO	db	db	0.046
34	1234678-HpCDD	39.94	1.741e5	1.749e5	1.237	1.00	1.05	1262.2	YES	NO	bb	bd	49.824
35	1234679-HPCDD	38.92	2.111e5	1.892e5	1.554	1.12	1.05	1552.7	YES	NO	bd	bb	45.472
36	OCDD	44.58	3.604e5	4.062e5	1.212	0.89	0.89	1907.5	YES	NO	bb	bb	110.912

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.16	2.598e4					1.6	NO		bd		
2	FUNCTION1 PFK	26.95	2.295e4					1.4	NO		bb		
3	FUNCTION1 PFK	25.68	1.998e4					1.5	NO		bb		
4	FUNCTION1 PFK	25.41	1.160e4					1.0	NO		bb		
5	FUNCTION1 PFK	24.28	1.078e4					1.0	NO		bb		
6	FUNCTION1 PFK	24.15	5.710e3					0.7	NO		bb		
7	FUNCTION1 PFK	23.77	3.870e4					2.0	NO		bb		
8	FUNCTION1 PFK	23.32	2.422e3					0.4	NO		bb		
9	FUNCTION1 PFK	23.10	1.237e4					0.7	NO		bb		
10	FUNCTION1 PFK	22.99	5.824e3					0.7	NO		bb		
11	FUNCTION1 PFK	22.40	1.265e4					0.9	NO		bb		
12	FUNCTION1 PFK	22.17	1.232e4					0.9	NO		db		
13	FUNCTION1 PFK	22.14	1.648e4					1.4	NO		dd		
14	FUNCTION1 PFK	22.05	3.768e4					1.6	NO		bd		
15	FUNCTION1 PFK	21.62	2.676e4					1.7	NO		bb		
16	FUNCTION1 PFK	21.31	1.175e4					1.2	NO		bb		
17	FUNCTION1 PFK	21.21	3.183e4					2.3	NO		db		
18	FUNCTION1 PFK	27.47	5.222e3					0.6	NO		bb		
19	FUNCTION1 PFK	27.41	2.746e4					1.1	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.34	6.318e3					1.1	NO		bb		0.000
2	FUNCTION2 PFK	30.13	5.145e3					1.1	NO		bb		0.000
3	FUNCTION2 PFK	29.97	7.468e3					1.4	NO		bb		0.000
4	FUNCTION2 PFK	29.92	9.479e3					1.5	NO		db		0.000
5	FUNCTION2 PFK	29.86	1.153e4					1.5	NO		bd		0.000
6	FUNCTION2 PFK	29.73	5.353e3					1.2	NO		db		0.000
7	FUNCTION2 PFK	29.68	1.706e4					1.7	NO		dd		0.000
8	FUNCTION2 PFK	29.59	1.357e4					1.2	NO		bd		0.000
9	FUNCTION2 PFK	29.49	1.438e4					1.3	NO		bb		0.000
10	FUNCTION2 PFK	28.32	1.938e4					1.2	NO		bb		0.000
11	FUNCTION2 PFK	28.23	2.623e3					0.7	NO		bb		0.000
12	FUNCTION2 PFK	28.19	2.752e3					0.7	NO		bb		0.000
13	FUNCTION2 PFK	27.81	8.054e3					1.7	NO		bb		0.000
14	FUNCTION2 PFK	32.29	4.014e3					0.8	NO		db		0.000
15	FUNCTION2 PFK	32.24	3.030e3					0.7	NO		dd		0.000
16	FUNCTION2 PFK	32.21	6.103e3					1.3	NO		bd		0.000
17	FUNCTION2 PFK	32.02	1.285e4					1.9	NO		bb		0.000
18	FUNCTION2 PFK	31.79	1.181e4					1.6	NO		db		0.000
19	FUNCTION2 PFK	31.75	5.692e3					1.4	NO		bd		0.000
20	FUNCTION2 PFK	31.70	5.032e3					1.0	NO		bb		0.000
21	FUNCTION2 PFK	31.49	5.878e3					1.0	NO		db		0.000
22	FUNCTION2 PFK	31.44	9.060e3					1.6	NO		bd		0.000
23	FUNCTION2 PFK	31.35	1.829e4					1.8	NO		bb		0.000
24	FUNCTION2 PFK	31.29	2.417e3					0.7	NO		bb		0.000
25	FUNCTION2 PFK	31.06	1.673e3					0.8	NO		bb		0.000
26	FUNCTION2 PFK	31.02	9.141e2					0.4	NO		bb		0.000
27	FUNCTION2 PFK	30.78	3.645e3					0.8	NO		bb		0.000
28	FUNCTION2 PFK	30.71	3.223e3					0.9	NO		bb		0.000
29	FUNCTION2 PFK	30.46	5.940e3					1.0	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.41	8.139e3					1.0	NO		bb		0.000
2	FUNCTION3 PFK	34.12	7.912e3					1.3	NO		bb		0.000
3	FUNCTION3 PFK	33.90	7.973e3					1.0	NO		bb		0.000
4	FUNCTION3 PFK	33.83	3.609e3					0.8	NO		bb		0.000
5	FUNCTION3 PFK	33.78	4.110e3					0.7	NO		bb		0.000
6	FUNCTION3 PFK	33.61	1.497e4					1.5	NO		db		0.000
7	FUNCTION3 PFK	33.56	3.087e4					1.6	NO		bd		0.000
8	FUNCTION3 PFK	33.46	1.231e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	33.28	1.494e4					1.6	NO		bb		0.000
10	FUNCTION3 PFK	33.19	1.015e4					0.7	NO		bb		0.000
11	FUNCTION3 PFK	33.11	1.302e4					0.8	NO		bb		0.000
12	FUNCTION3 PFK	32.91	9.363e2					0.3	NO		bb		0.000
13	FUNCTION3 PFK	32.83	1.954e4					2.0	NO		bb		0.000
14	FUNCTION3 PFK	32.78	1.315e4					1.3	NO		bb		0.000
15	FUNCTION3 PFK	32.67	1.359e3					0.5	NO		bb		0.000
16	FUNCTION3 PFK	36.93	5.947e3					0.8	NO		bb		0.000
17	FUNCTION3 PFK	36.82	7.876e3					1.1	NO		bb		0.000
18	FUNCTION3 PFK	36.56	7.894e3					1.4	NO		db		0.000
19	FUNCTION3 PFK	36.50	2.212e4					1.8	NO		bd		0.000
20	FUNCTION3 PFK	36.33	1.661e4					2.1	NO		db		0.000
21	FUNCTION3 PFK	36.27	2.044e4					2.1	NO		dd		0.000
22	FUNCTION3 PFK	36.22	1.731e4					1.7	NO		dd		0.000
23	FUNCTION3 PFK	36.15	2.427e4					1.8	NO		bd		0.000
24	FUNCTION3 PFK	35.30	8.545e3					1.2	NO		db		0.000
25	FUNCTION3 PFK	35.26	1.922e3					0.6	NO		bd		0.000
26	FUNCTION3 PFK	35.22	6.110e3					0.7	NO		db		0.000
27	FUNCTION3 PFK	35.16	3.881e3					0.7	NO		bd		0.000
28	FUNCTION3 PFK	34.84	2.342e3					0.5	NO		db		0.000
29	FUNCTION3 PFK	34.77	2.187e4					2.0	NO		bd		0.000
30	FUNCTION3 PFK	34.66	2.305e4					1.8	NO		bb		0.000
31	FUNCTION3 PFK	34.47	6.231e3					0.9	NO		bb		0.000
32	FUNCTION3 PFK	37.46	1.003e3					0.0	NO		bb		0.000
33	FUNCTION3 PFK	37.36	1.014e4					1.5	NO		bb		0.000
34	FUNCTION3 PFK	37.29	3.450e3					0.6	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

Printed: Tuesday, August 01, 2023 08:19:32 Pacific Daylight Time

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, 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	42.86	1.089e4					1.4	NO		bb		
2	FUNCTION4 PFK	42.40	1.382e3					0.7	NO		bb		
3	FUNCTION4 PFK	42.27	1.113e3					0.5	NO		bb		
4	FUNCTION4 PFK	41.16	1.132e3					0.5	NO		bb		
5	FUNCTION4 PFK	39.78	7.966e3					1.5	NO		bb		
6	FUNCTION4 PFK	38.93	3.343e5					12.6	YES		db		
7	FUNCTION4 PFK	38.55	2.088e6					30.1	YES		dd		
8	FUNCTION4 PFK	37.85	8.909e6					62.3	YES		dd		
9	FUNCTION4 PFK	37.57	6.000e5					71.9	YES		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.29	3.458e3					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...	27.54	8.522e1					2.9	NO		bb		0.000
2	FUNCTION1 HXCD...	26.88	1.376e2					4.0	YES		db		0.000
3	FUNCTION1 HXCD...	26.83	1.484e2					4.0	YES		bd		0.000
4	FUNCTION1 HXCD...	25.89	1.499e2					4.5	YES		db		0.000
5	FUNCTION1 HXCD...	25.79	1.469e2					4.1	YES		dd		0.000
6	FUNCTION1 HXCD...	25.68	1.476e2					3.7	YES		bd		0.000
7	FUNCTION1 HXCD...	25.25	7.274e1					2.0	NO		bb		0.000
8	FUNCTION1 HXCD...	24.88	1.147e2					3.3	YES		bb		0.000
9	FUNCTION1 HXCD...	22.57	7.319e1					3.0	NO		bb		0.000
10	FUNCTION1 HXCD...	21.71	9.074e1					2.5	NO		bb		0.000

ETHERS2

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

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

Printed: Tuesday, August 01, 2023 08:19:32 Pacific Daylight Time

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.41	7.048e1					1.6	NO		bb		0.000
2	FUNCTION2 HPCD...	30.24	1.337e2					2.8	NO		bb		0.000
3	FUNCTION2 HPCD...	29.00	7.044e1					2.7	NO		db		0.000
4	FUNCTION2 HPCD...	28.91	8.079e1					2.1	NO		bd		0.000
5	FUNCTION2 HPCD...	28.44	7.121e1					2.6	NO		bb		0.000
6	FUNCTION2 HPCD...	32.29	1.158e2					2.9	NO		bb		0.000
7	FUNCTION2 HPCD...	31.19	1.640e2					3.7	YES		bb		0.000
8	FUNCTION2 HPCD...	30.81	2.751e2					6.8	YES		db		0.000
9	FUNCTION2 HPCD...	30.76	1.380e2					4.9	YES		bd		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.21	1.133e2					3.2	YES		bb		0.000
2	FUNCTION3 OCDPE	35.70	7.248e1					2.2	NO		bb		0.000
3	FUNCTION3 OCDPE	33.97	9.007e1					1.9	NO		bb		0.000
4	FUNCTION3 OCDPE	32.60	7.459e1					1.7	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.54	7.473e1					1.9	NO		bb		0.000
2	FUNCTION4 NCDPE	39.56	7.698e1					1.8	NO		bb		0.000

ETHERS6

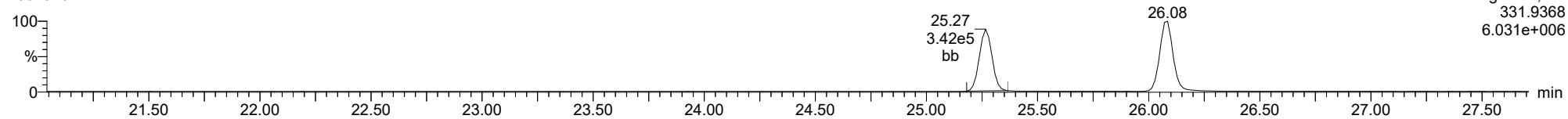
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1													

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3C1, **Name:** 23073102, **Date:** 31-Jul-2023, **Time:** 12:51:03, **Conditions:** AUTOSPEC01, **User:** pk

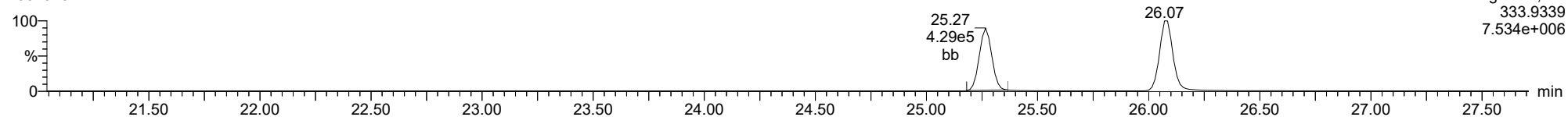
13C-1234-TCDD

23073102



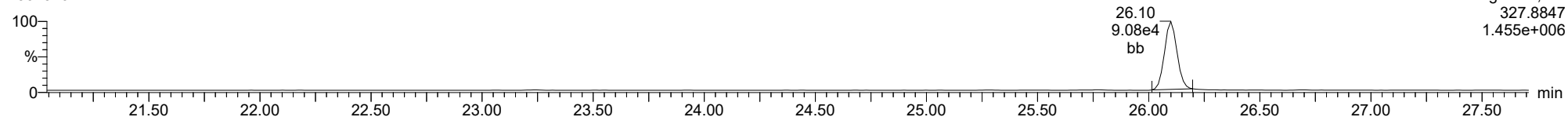
13C-1234-TCDD

23073102



37CL-2378-TCDD

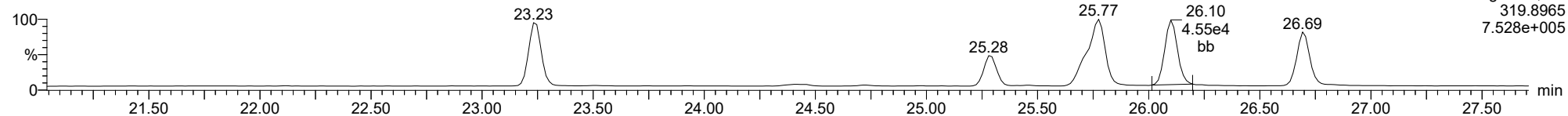
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

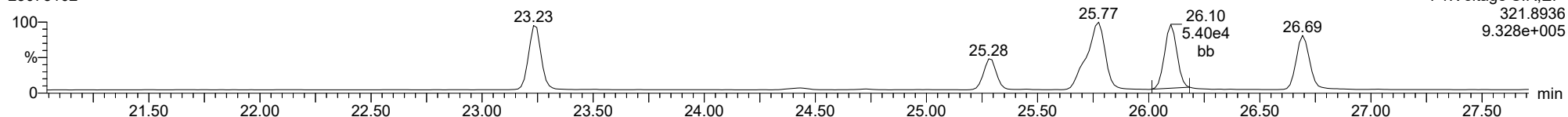
2378-TCDD

23073102



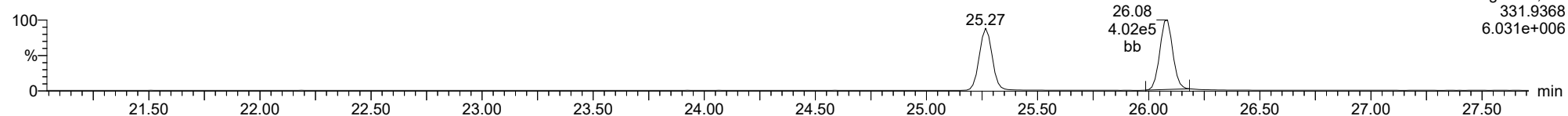
2378-TCDD

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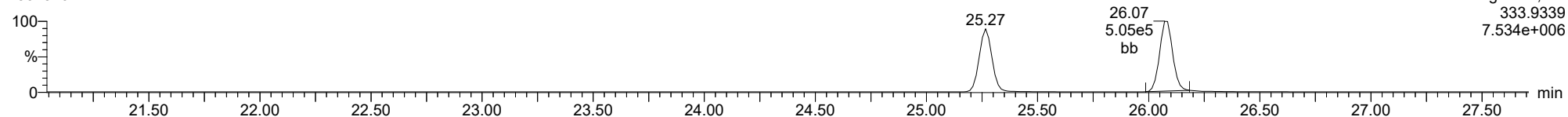
13C-2378-TCDD

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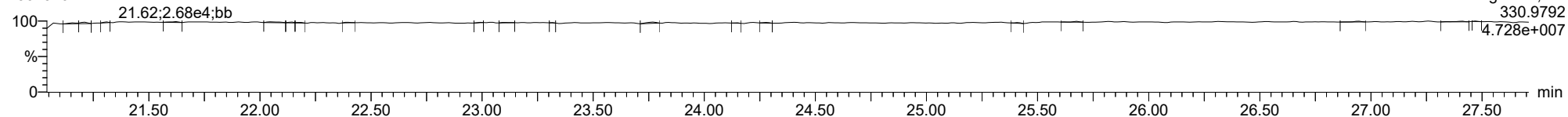
13C-2378-TCDD

23073102



FUNCTION1 PFK

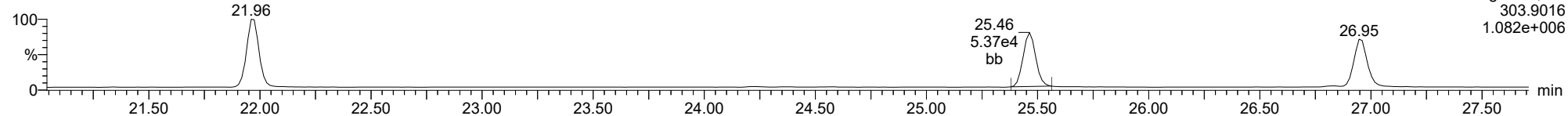
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

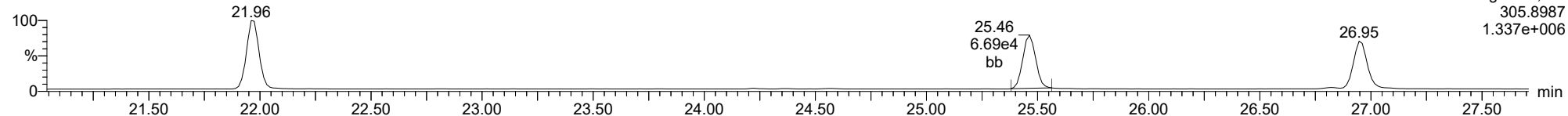
2378-TCDF

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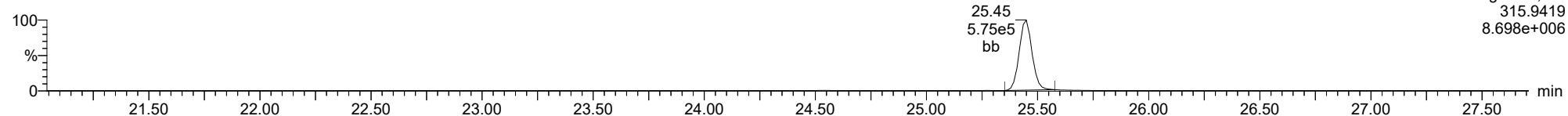
2378-TCDF

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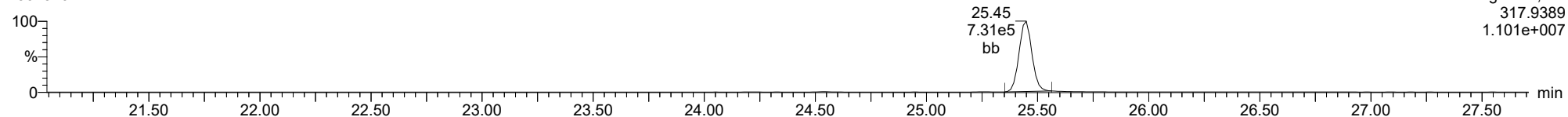
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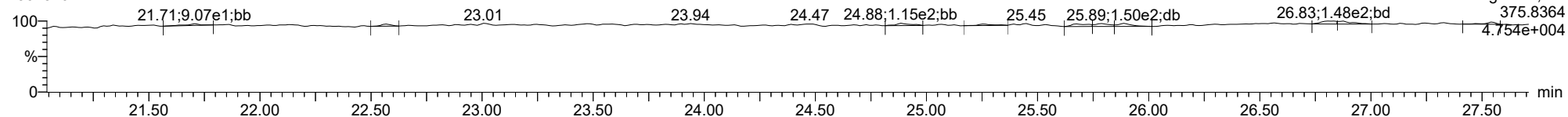
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23073102



FUNCTION1 HXCDPE

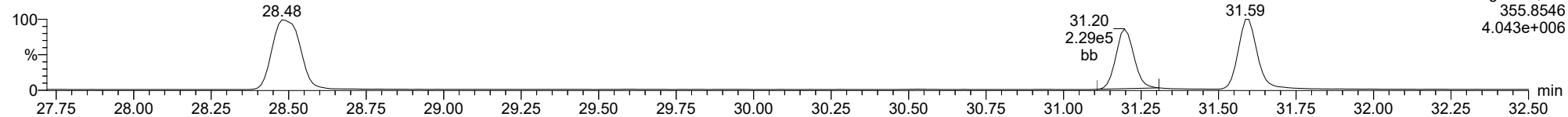
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

12378-PeCDD

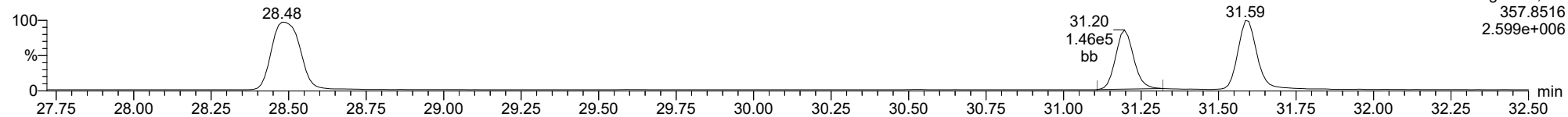
23073102



F2:Voltage SIR,EI+
355.8546
4.043e+006

12378-PeCDD

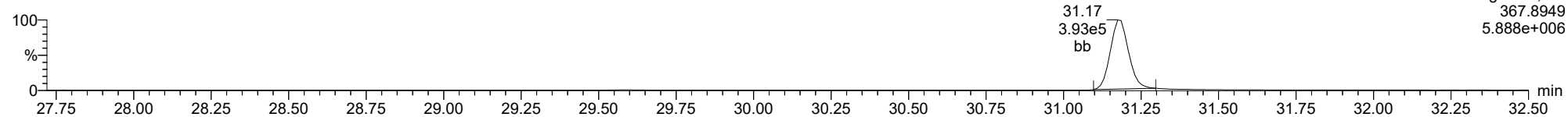
23073102



F2:Voltage SIR,EI+
357.8516
2.599e+006

13C-12378-PeCDD

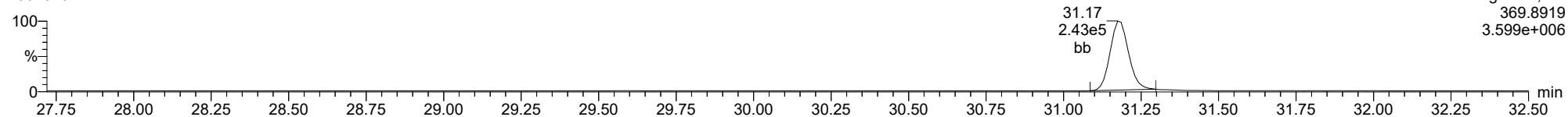
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F2:Voltage SIR,EI+
367.8949
5.888e+006

13C-12378-PeCDD

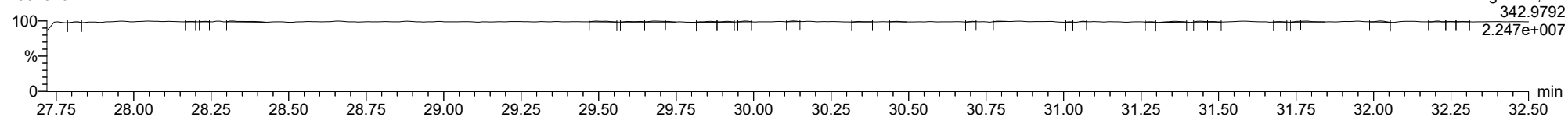
23073102



F2:Voltage SIR,EI+
369.8919
3.599e+006

FUNCTION2 PFK

23073102

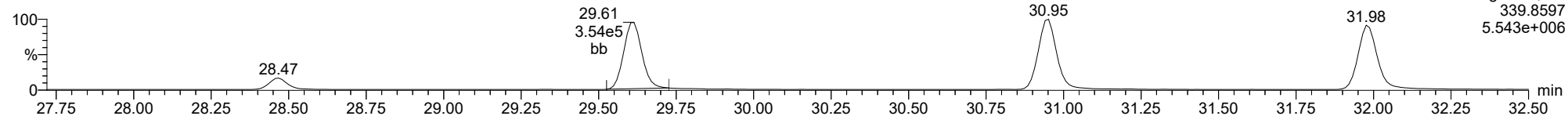


F2:Voltage SIR,EI+
342.9792
2.247e+007

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

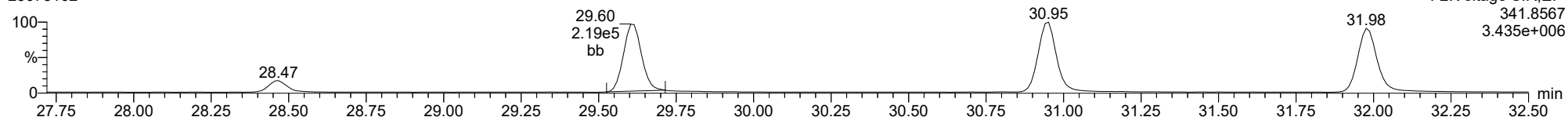
12378-PeCDF

23073102



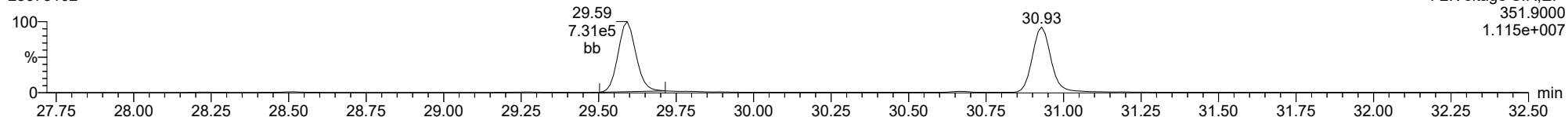
12378-PeCDF

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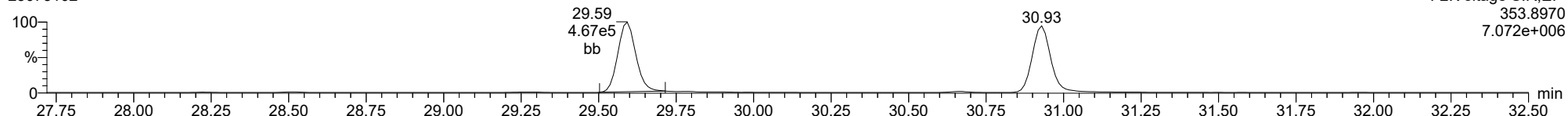
13C-12378-PeCDF

23073102



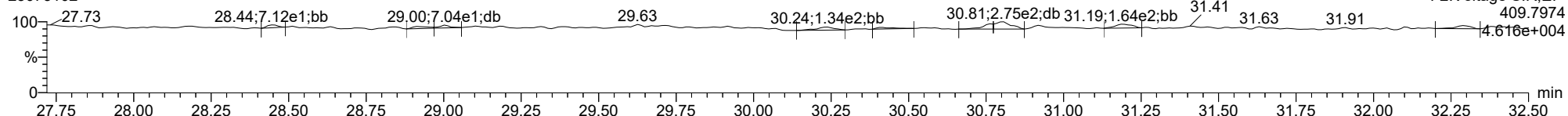
13C-12378-PeCDF

23073102



FUNCTION2 HPCDPE

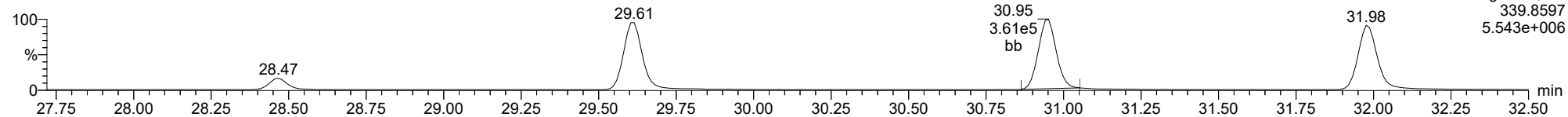
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

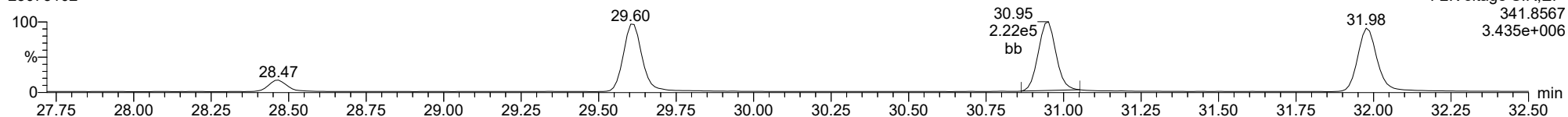
23478-PeCDF

23073102



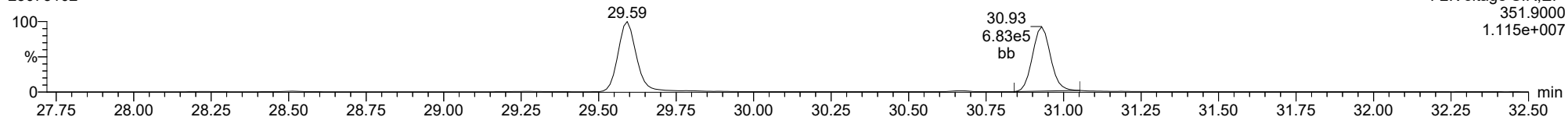
23478-PeCDF

23073102



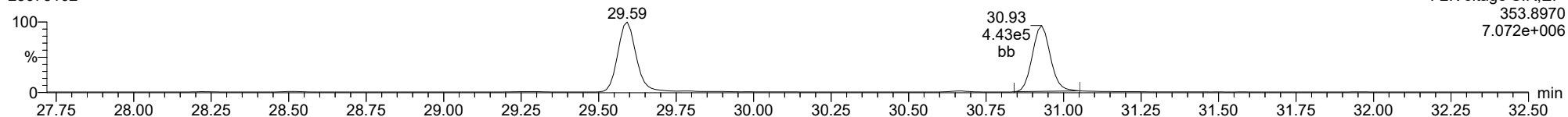
13C-23478-PeCDF

23073102



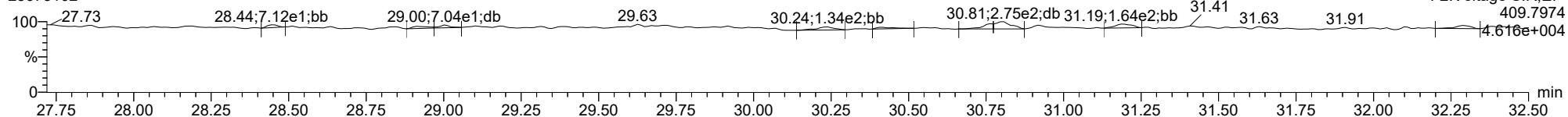
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23073102



FUNCTION2 HPCDPE

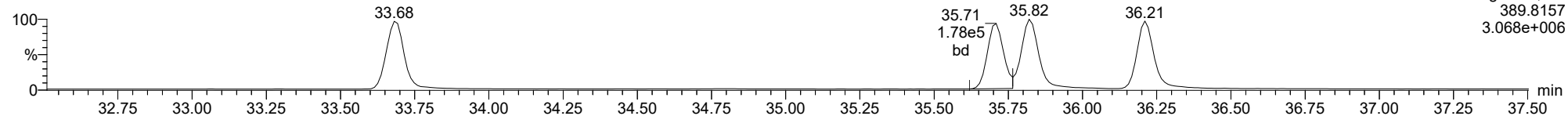
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

123478-HxCDD

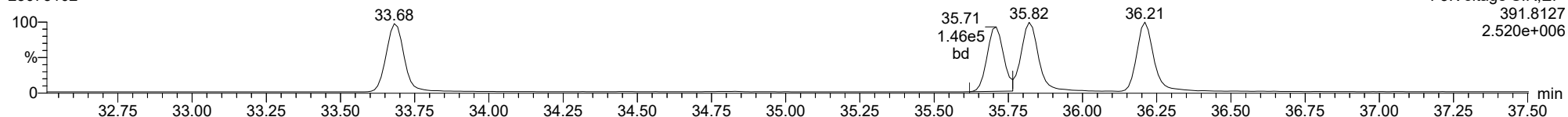
23073102



F3:Voltage SIR,EI+
389.8157
3.068e+006

123478-HxCDD

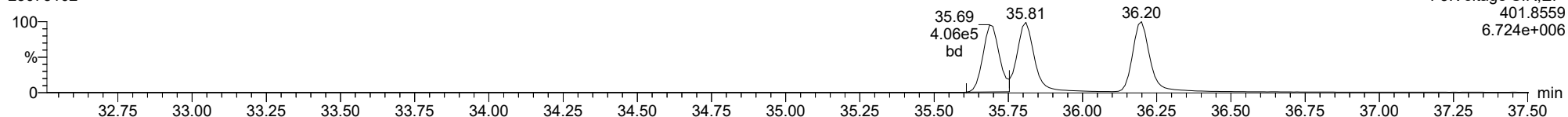
23073102



F3:Voltage SIR,EI+
391.8127
2.520e+006

13C-123478-HxCDD

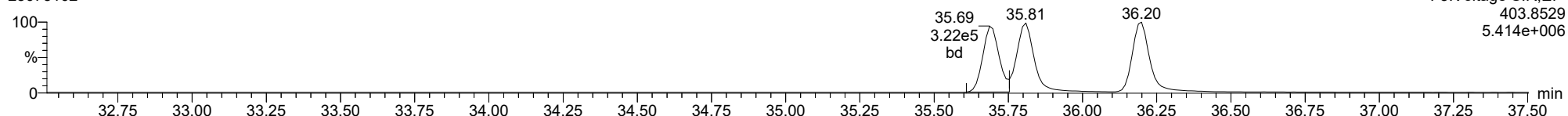
23073102



F3:Voltage SIR,EI+
401.8559
6.724e+006

13C-123478-HxCDD

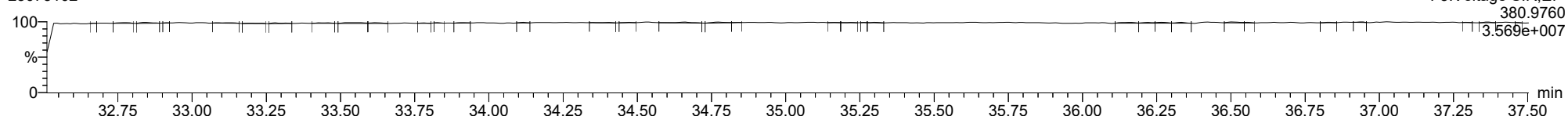
23073102



F3:Voltage SIR,EI+
403.8529
5.414e+006

FUNCTION3 PFK

23073102

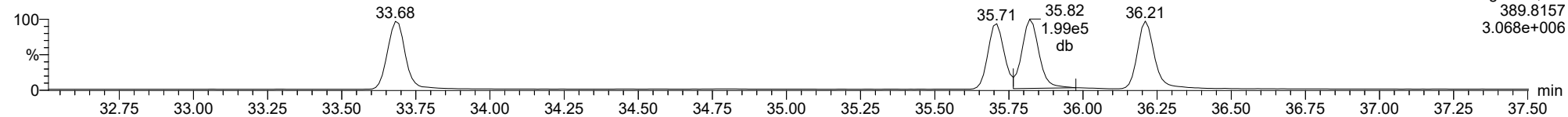


F3:Voltage SIR,EI+
380.9760
3.569e+007

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

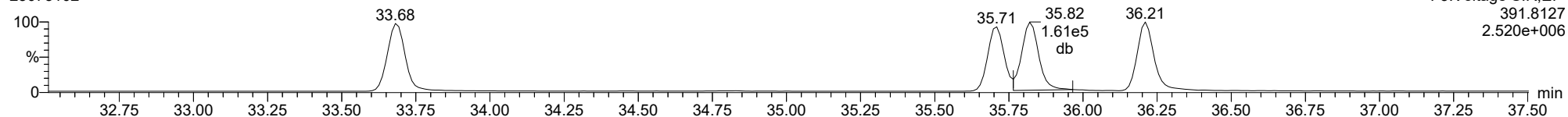
123678-HxCDD

23073102



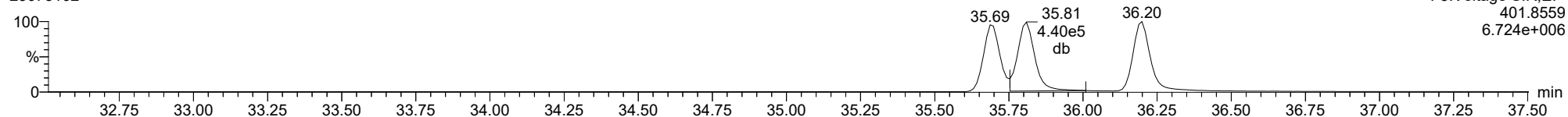
123678-HxCDD

23073102



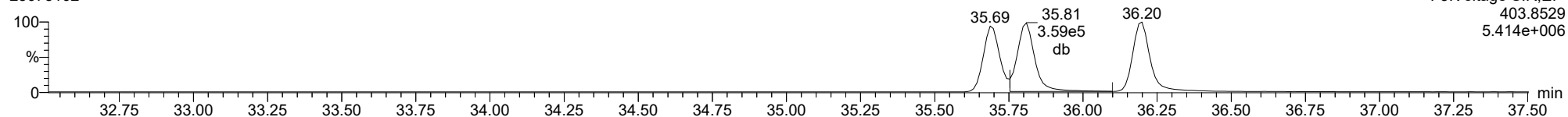
13C-123678-HxCDD

23073102



13C-123678-HxCDD

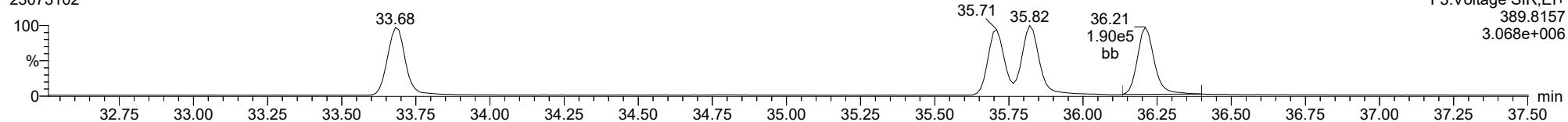
23073102



ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

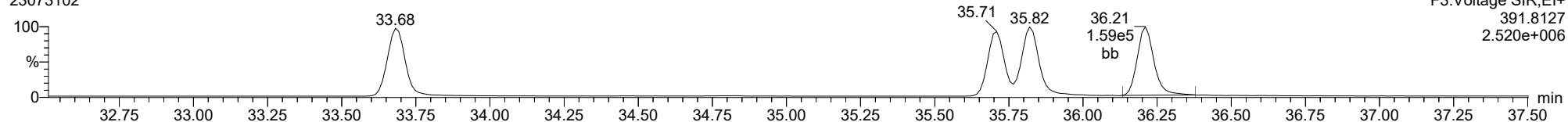
123789-HxCDD

23073102



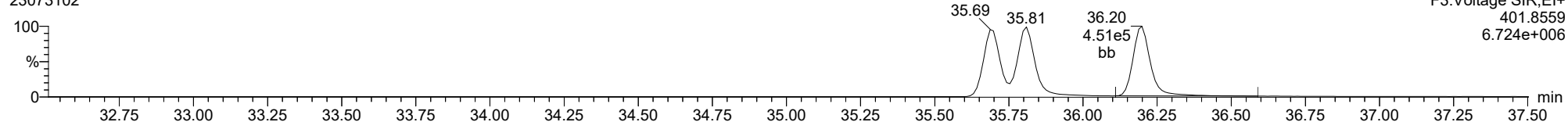
123789-HxCDD

23073102



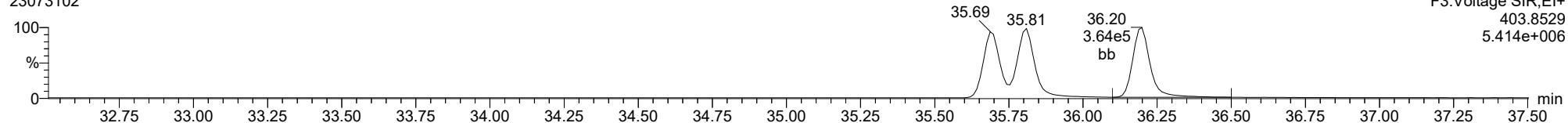
13C-123789-HxCDD

23073102



13C-123789-HxCDD

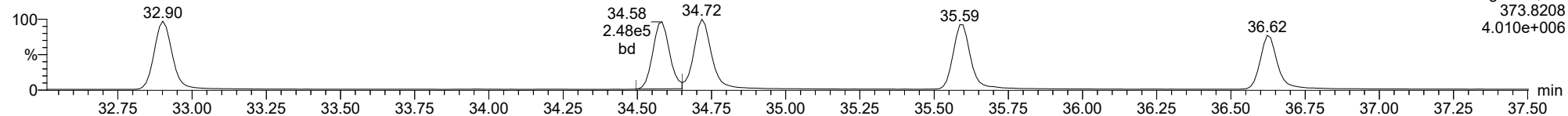
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

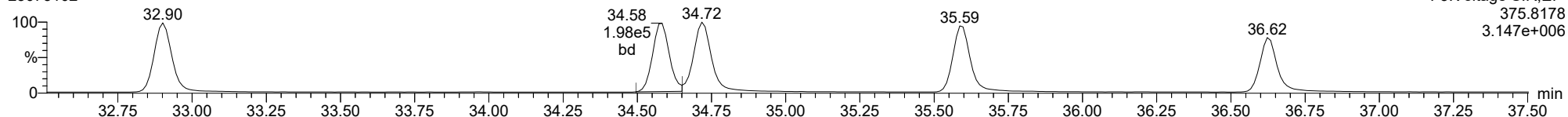
123478-HxCDF

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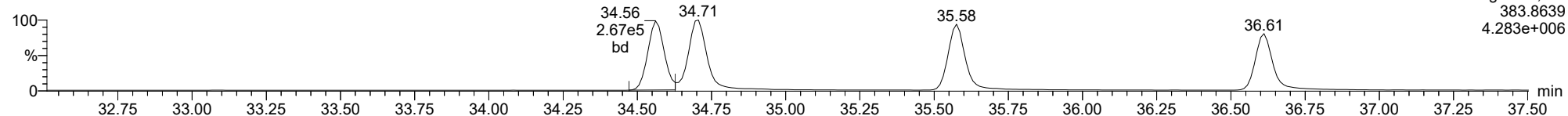
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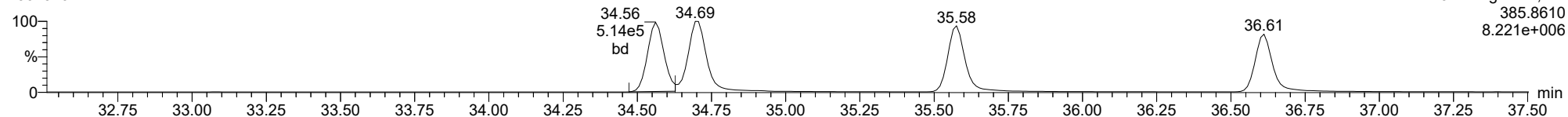
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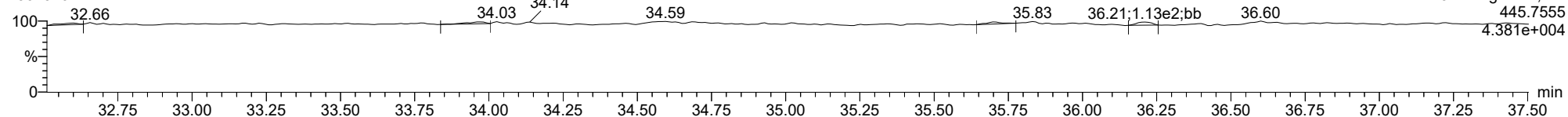
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23073102



FUNCTION3 OCDPE

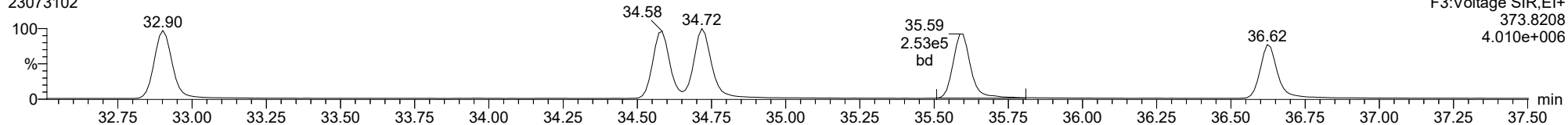
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

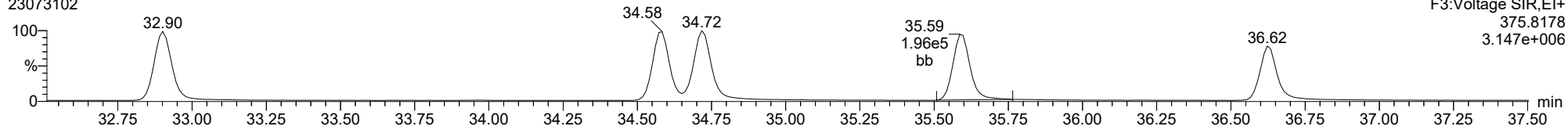
234678-HxCDF

23073102



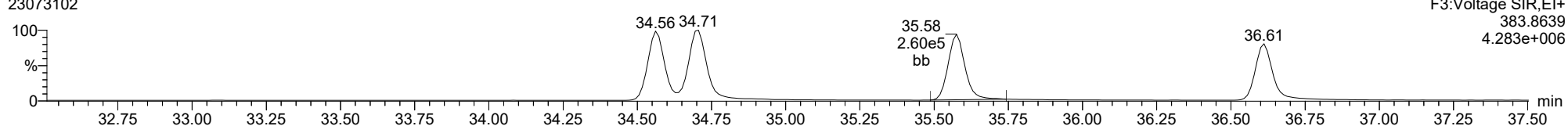
234678-HxCDF

23073102



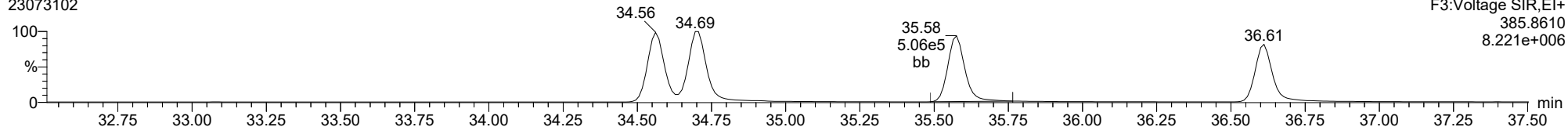
13C-234678-HxCDF

23073102



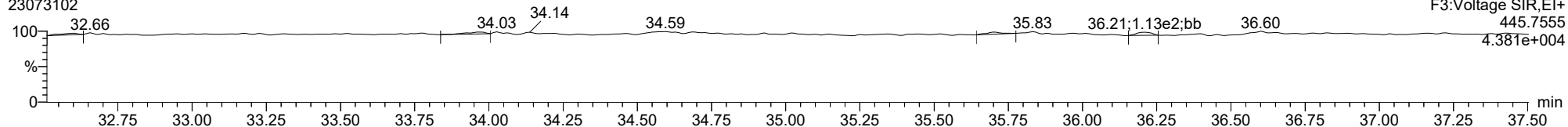
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23073102



FUNCTION3 OCDPE

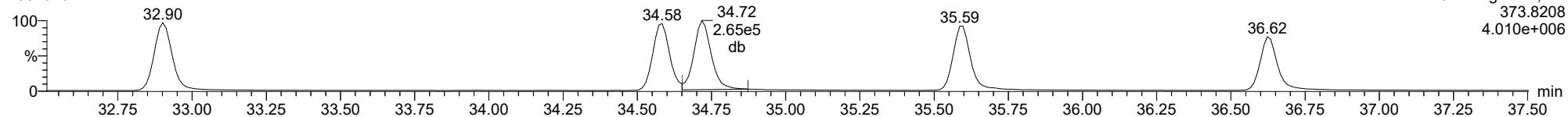
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

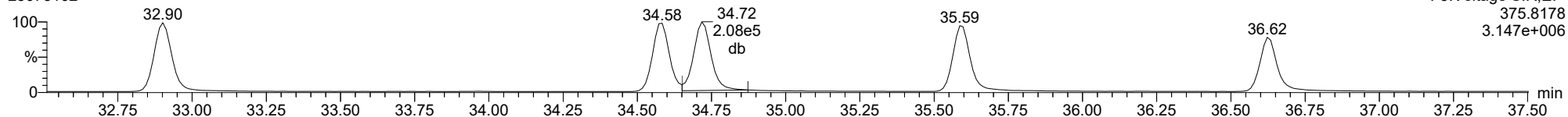
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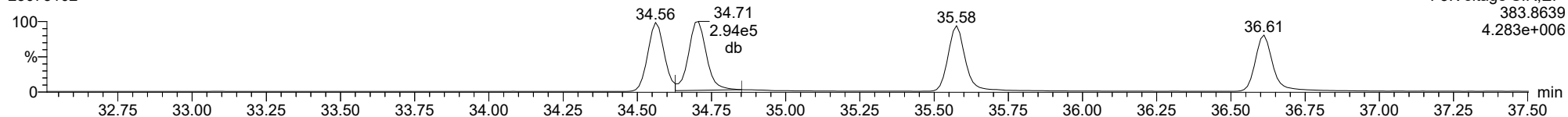
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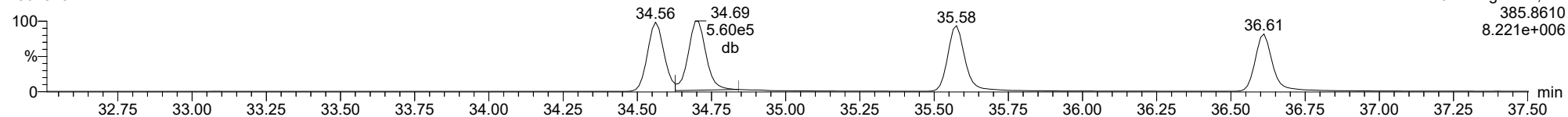
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23073102



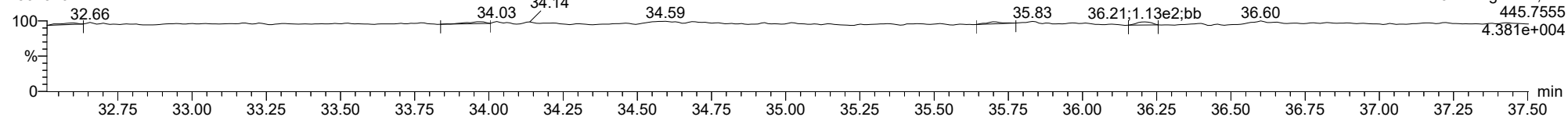
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23073102



FUNCTION3 OCDPE

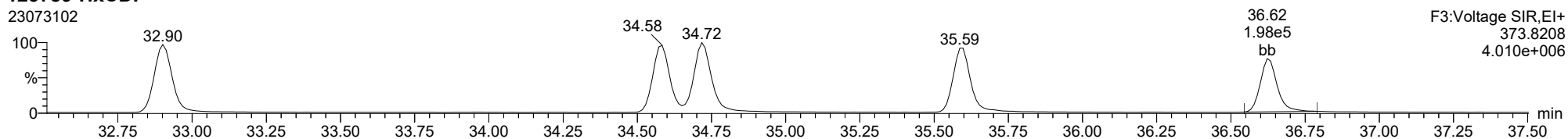
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

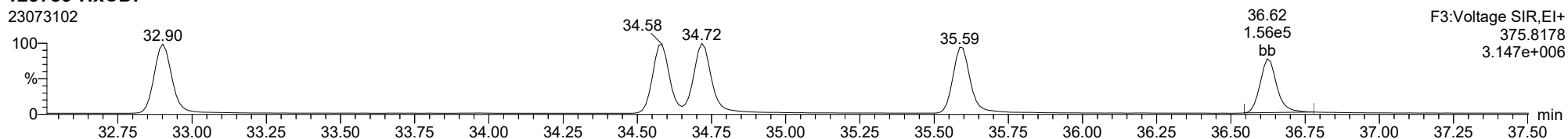
123789-HxCDF

23073102



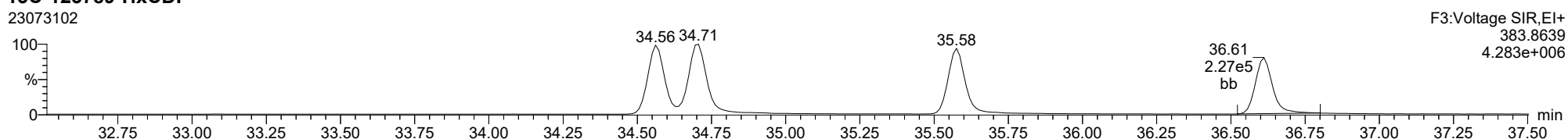
123789-HxCDF

23073102



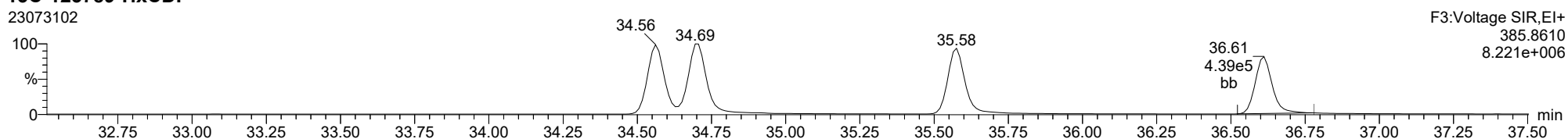
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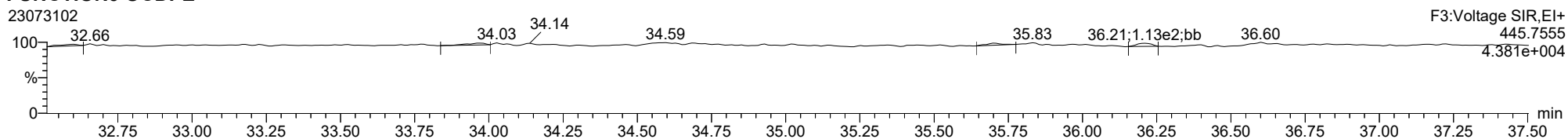
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23073102



FUNCTION3 OCDPE

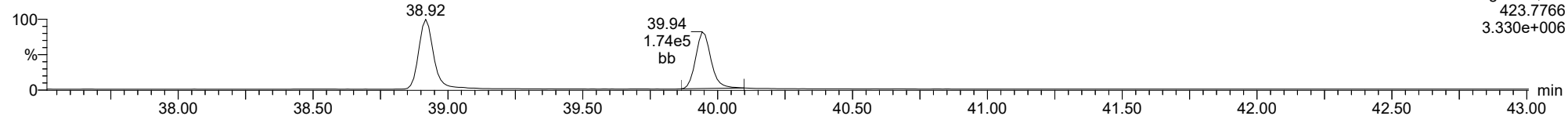
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

1234678-HpCDD

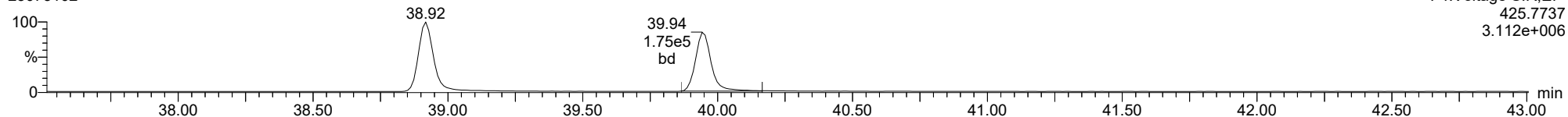
23073102



F4:Voltage SIR,El+
423.7766
3.330e+006

1234678-HpCDD

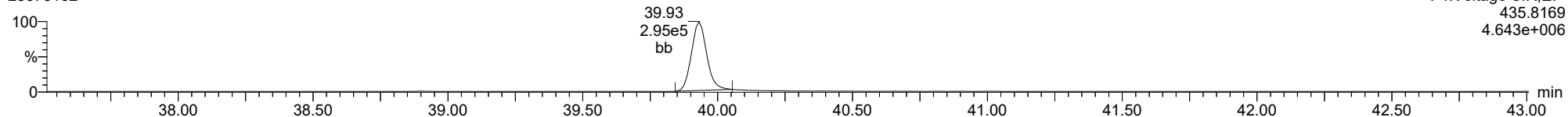
23073102



F4:Voltage SIR,El+
425.7737
3.112e+006

13C-1234678-HpCDD

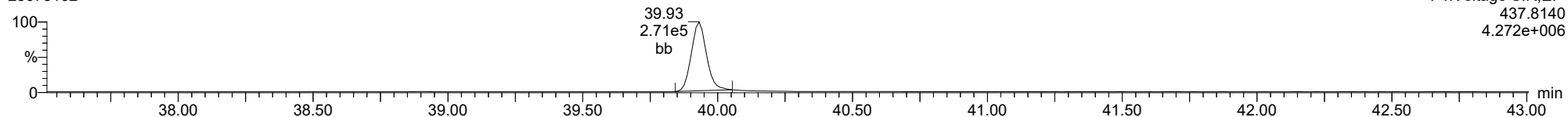
23073102



F4:Voltage SIR,El+
435.8169
4.643e+006

13C-1234678-HpCDD

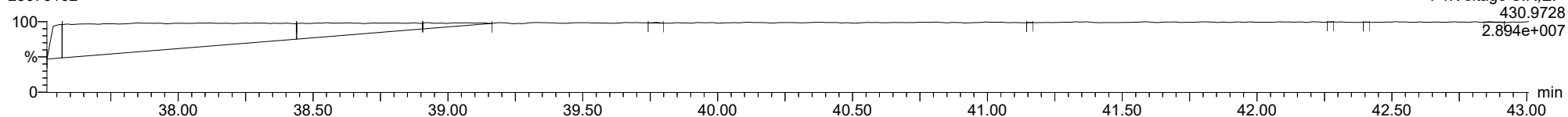
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F4:Voltage SIR,El+
437.8140
4.272e+006

FUNCTION4 PFK

23073102

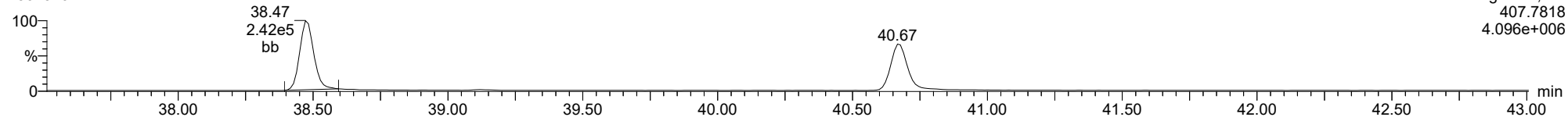


F4:Voltage SIR,El+
430.9728
2.894e+007

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

1234678-HpCDF

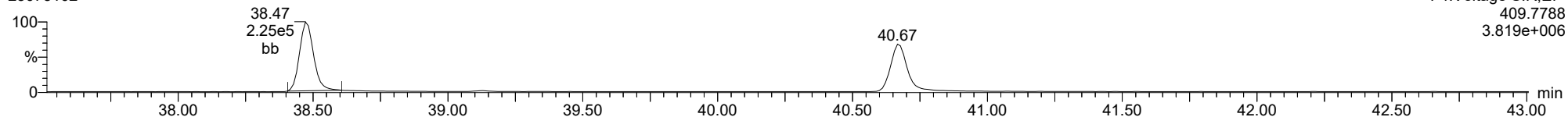
23073102



F4:Voltage SIR,EI+
409.7818
4.096e+006

1234678-HpCDF

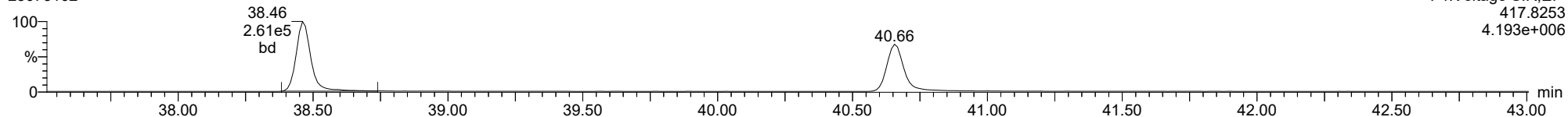
23073102



F4:Voltage SIR,EI+
409.7788
3.819e+006

13C-1234678-HpCDF

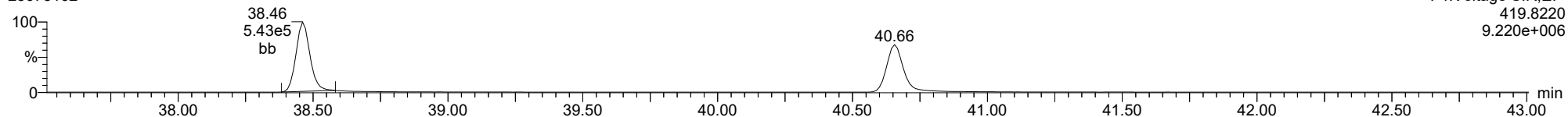
23073102



F4:Voltage SIR,EI+
417.8253
4.193e+006

13C-1234678-HpCDF

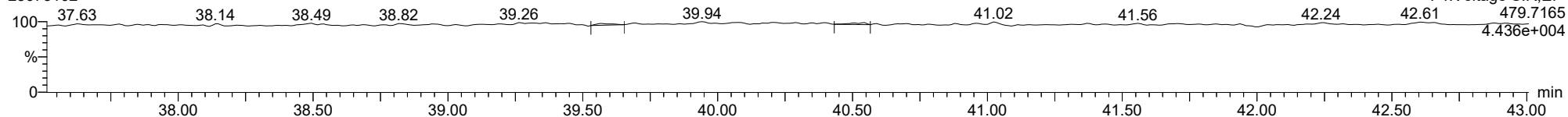
23073102



F4:Voltage SIR,EI+
419.8220
9.220e+006

FUNCTION4 NCDPE

23073102

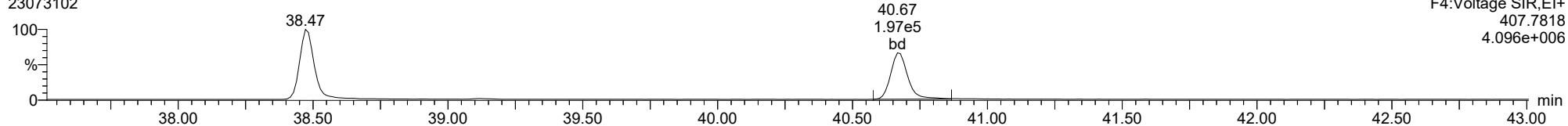


F4:Voltage SIR,EI+
479.7165
4.436e+004

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF

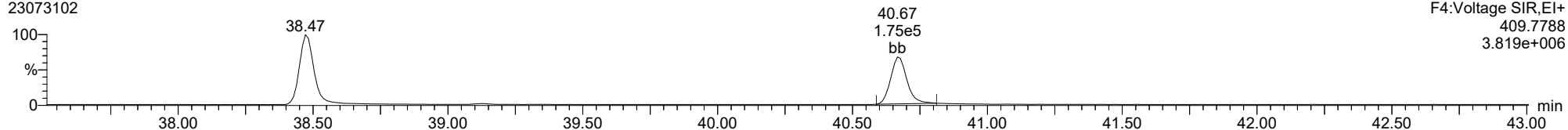
23073102



F4:Voltage SIR,EI+
407.7818
4.096e+006

1234789-HpCDF

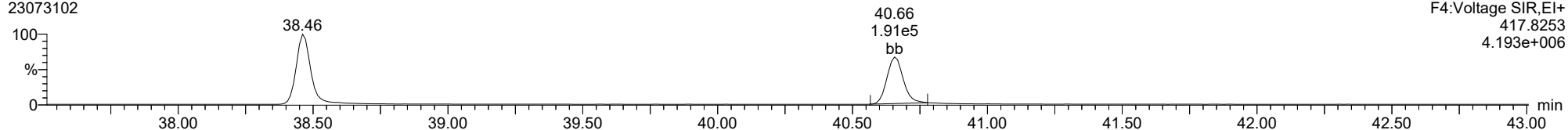
23073102



F4:Voltage SIR,EI+
409.7788
3.819e+006

13C-1234789-HpCDF

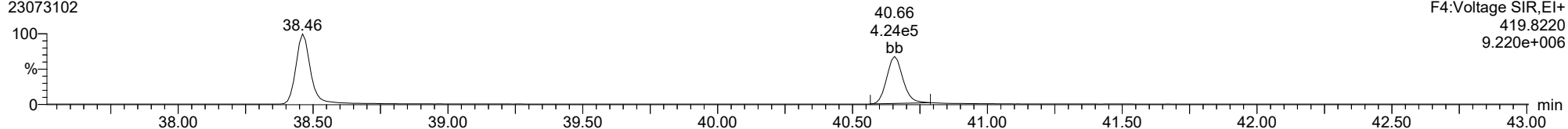
23073102



F4:Voltage SIR,EI+
417.8253
4.193e+006

13C-1234789-HpCDF

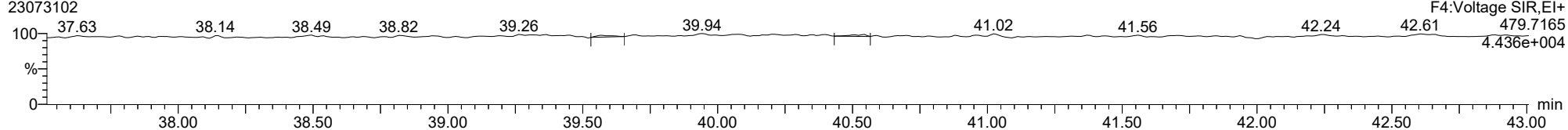
23073102



F4:Voltage SIR,EI+
419.8220
9.220e+006

FUNCTION4 NCDPE

23073102

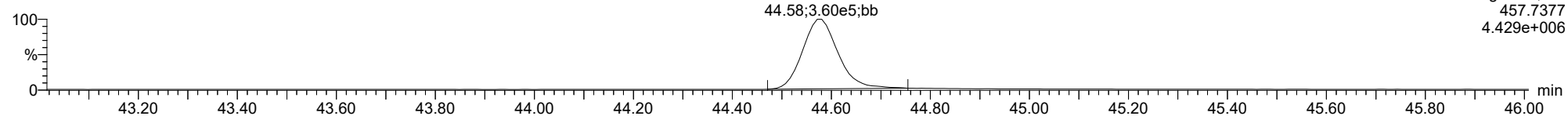


F4:Voltage SIR,EI+
479.7165
4.436e+004

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

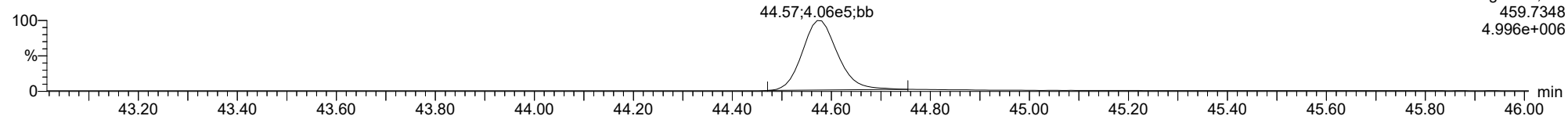
OCDD

23073102



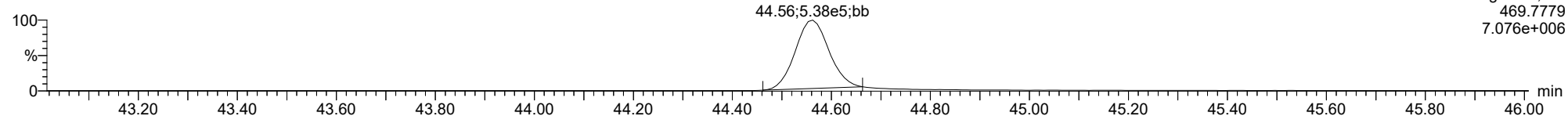
OCDD

23073102



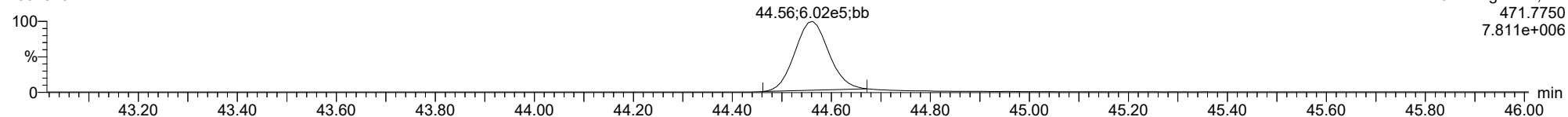
13C-OCDD

23073102



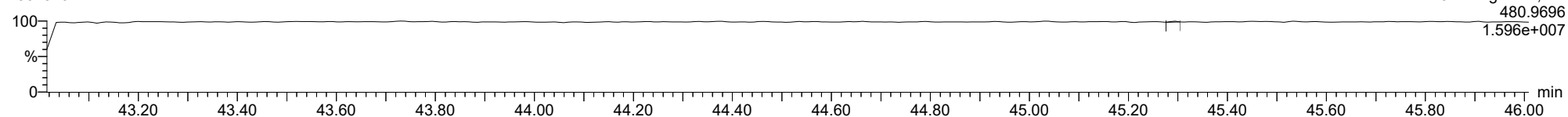
13C-OCDD

23073102



FUNCTION5 PFK

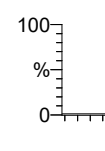
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

OCDF

23073102

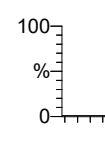


44.81;3.24e5;bd

F5:Voltage SIR,EI+
441.7428
3.616e+006

OCDF

23073102

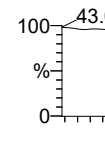


44.81;3.39e5;bd

F5:Voltage SIR,EI+
443.7399
3.977e+006

FUNCTION5 DCDPE

23073102



43.02

43.58

44.15

44.55

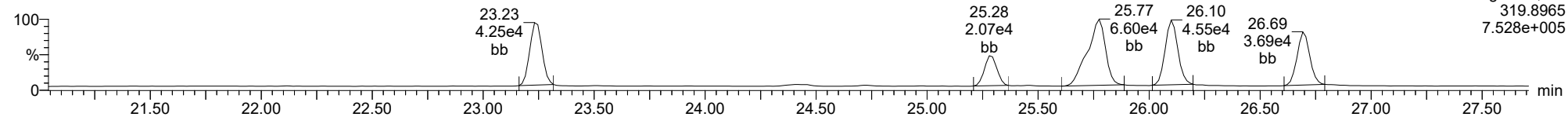
45.79

F5:Voltage SIR,EI+
513.6775
4.366e+004

ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

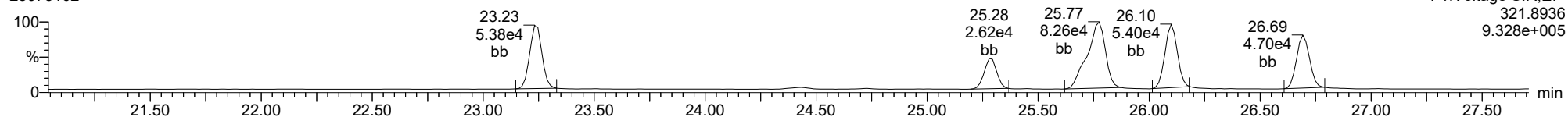
Total-tetradoxins

23073102



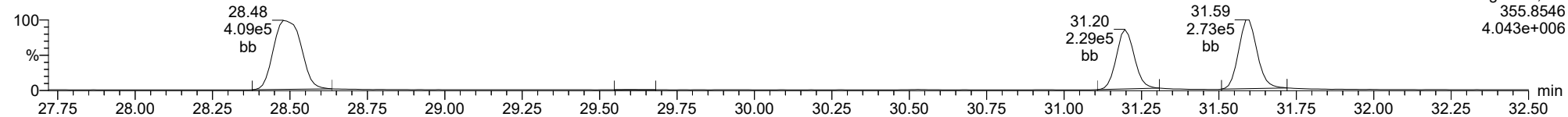
Total-tetradoxins

23073102



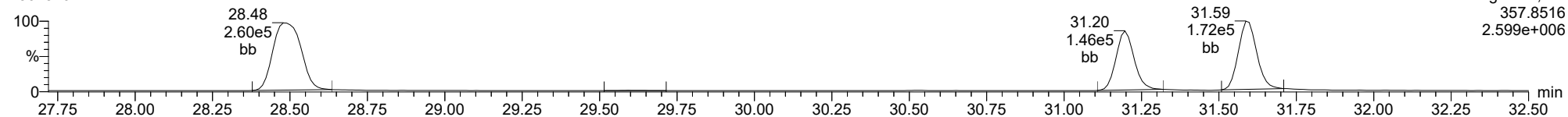
Total-pentadoxins

23073102



Total-pentadoxins

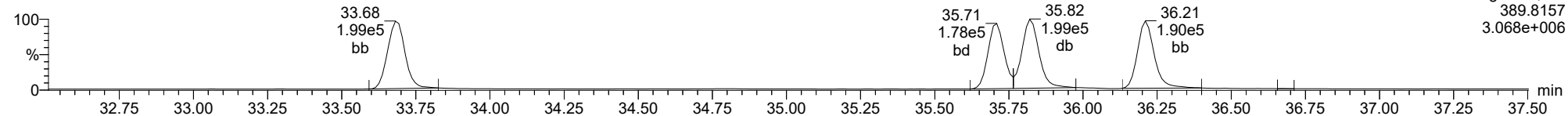
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ID: CS3C1, Name: 23073102, Date: 31-Jul-2023, Time: 12:51:03, Conditions: AUTOSPEC01, User: pk

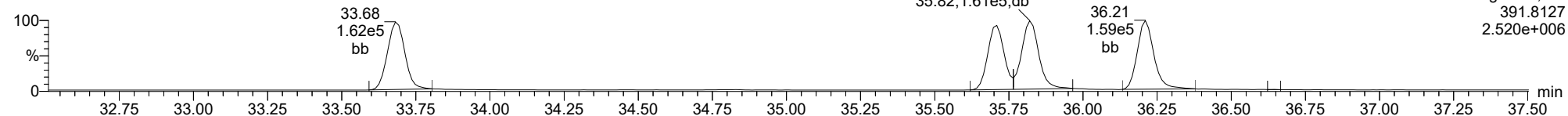
Total-hexadioxins

23073102



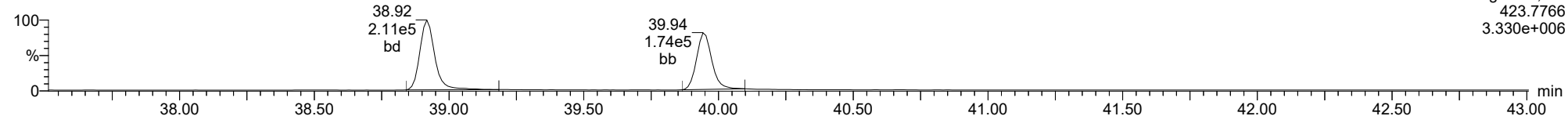
Total-hexadioxins

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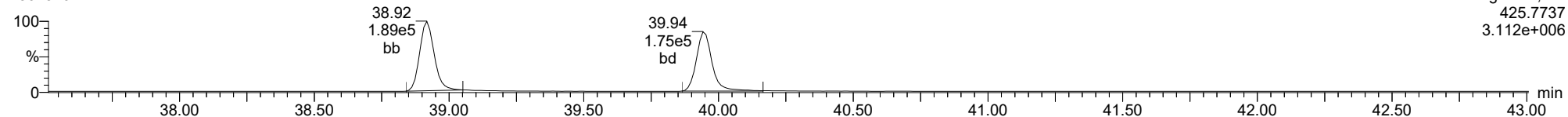
Total-heptadioxins

23073102



Total-heptadioxins

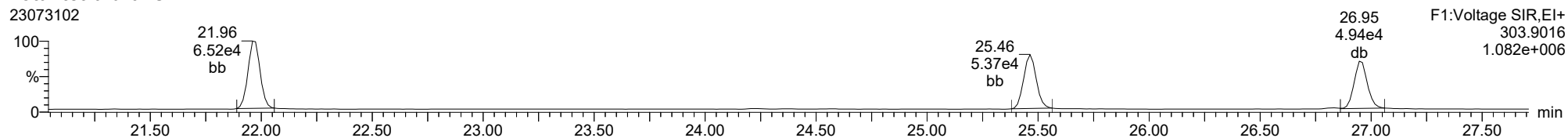
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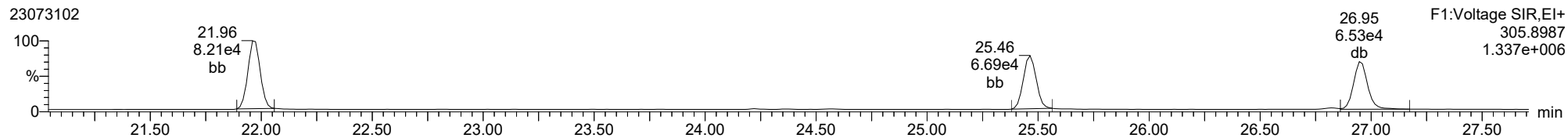
Total-tetrafurans

23073102



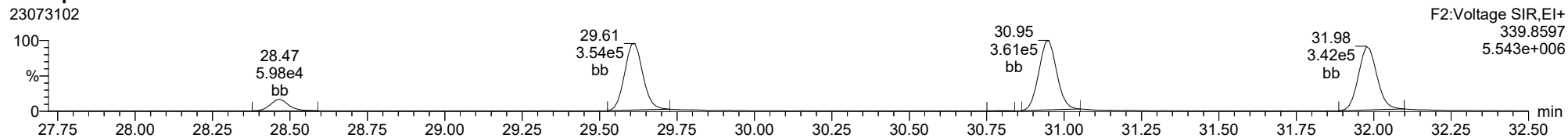
Total-tetrafurans

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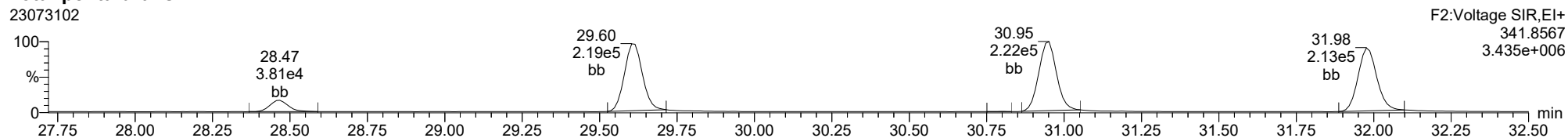
Total-pentafurans

23073102



Total-pentafurans

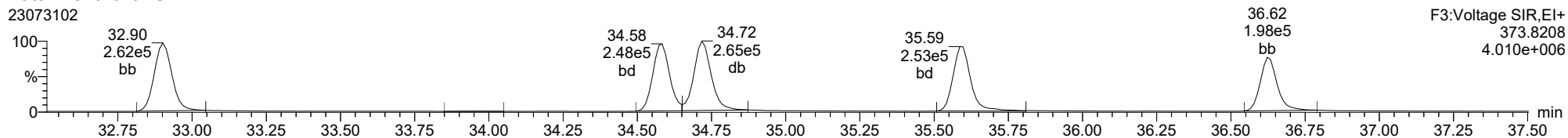
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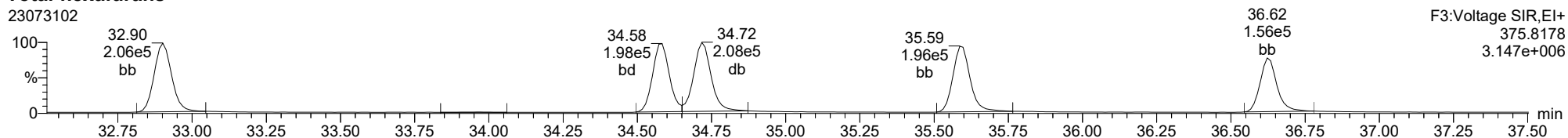
Total-hexafurans

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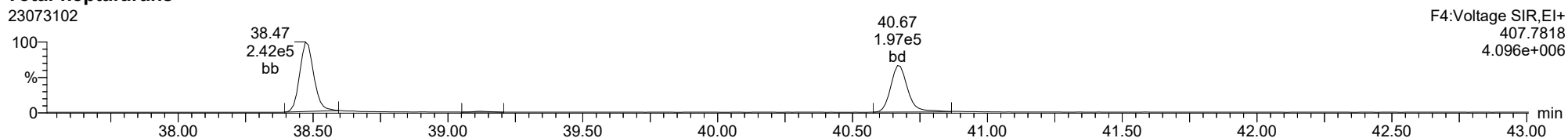
Total-hexafurans

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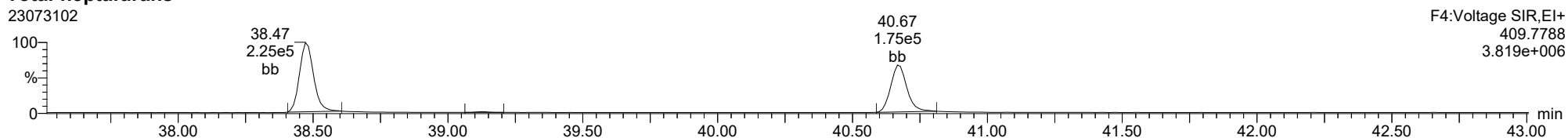
Total-heptafurans

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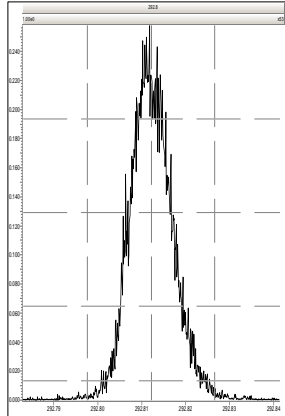
Total-heptafurans

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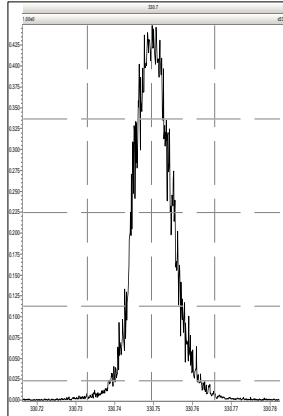


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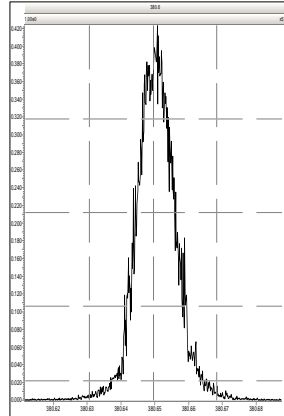
M 292.9824 R 13850



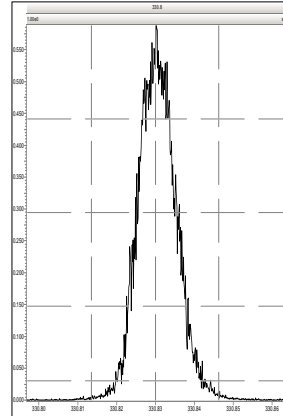
M 330.9792 R 15253



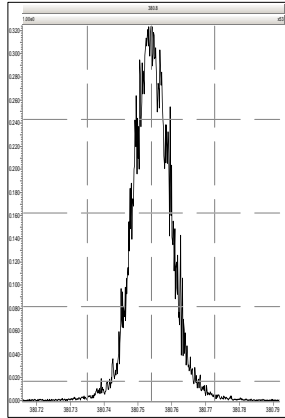
M 380.9760 R 14988



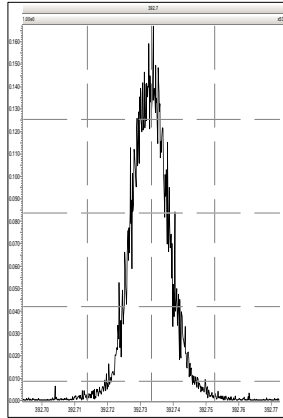
M 330.9792 R 15828



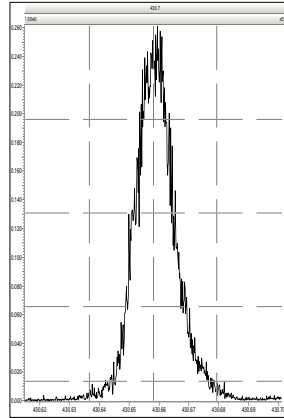
M 380.9760 R 15346



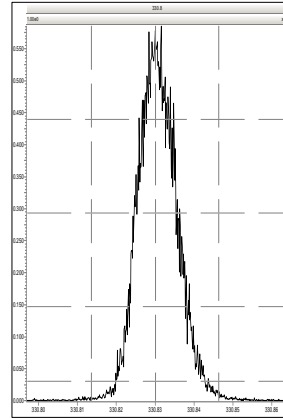
M 392.9760 R 14414



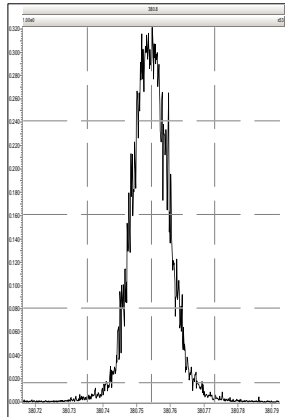
M 430.9728 R 13662



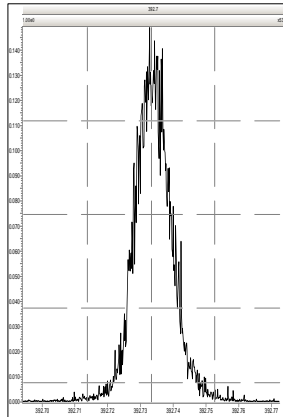
M 330.9792 R 14538



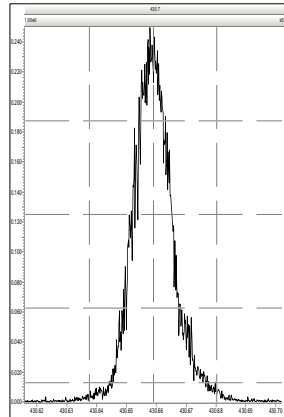
M 380.9760 R 15145



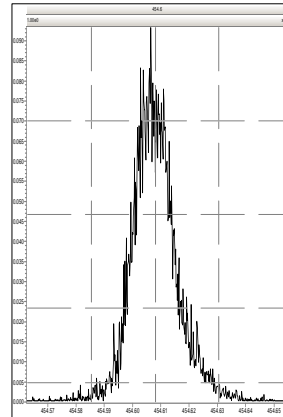
M 392.9760 R 15342



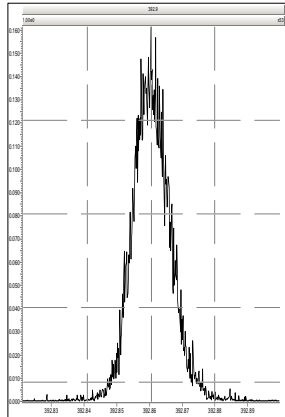
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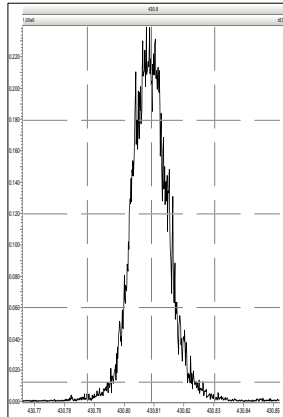
M 454.9728 R 12789



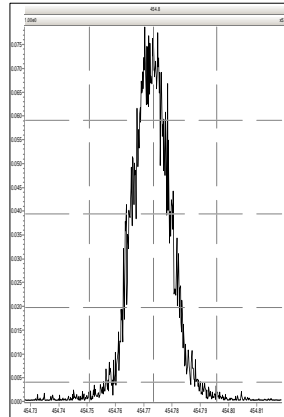
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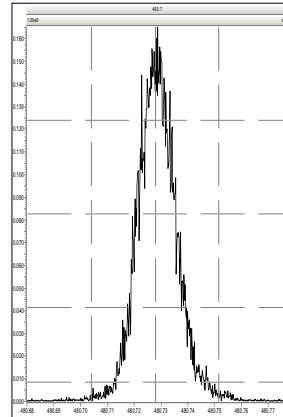
M 430.9728 R 15823



M 454.9728 R 15346

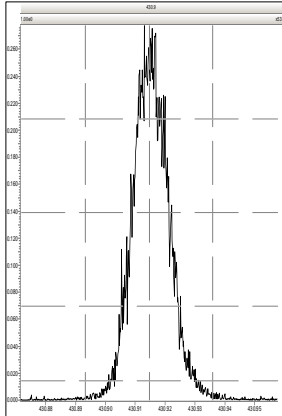


M 480.9696 R 14619

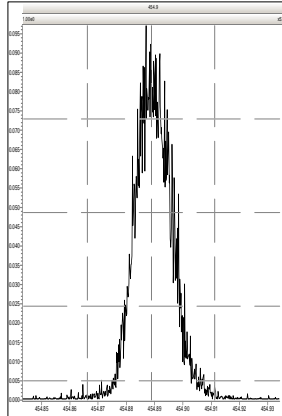


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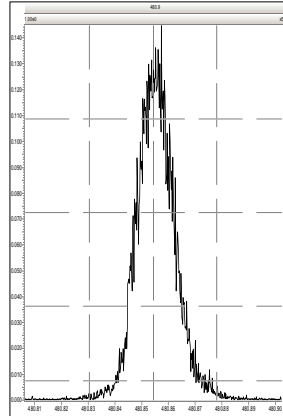
M 430.9728 R 15441



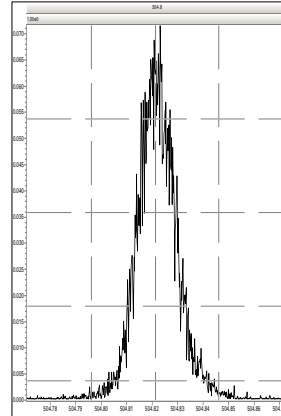
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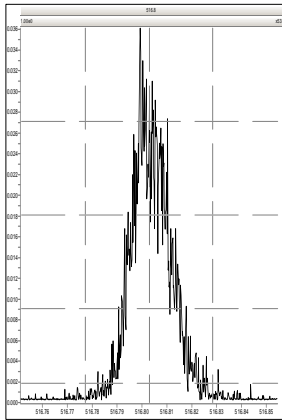
M 480.9696 R 14335



M 504.9696 R 14893



M 516.9697 R 16201

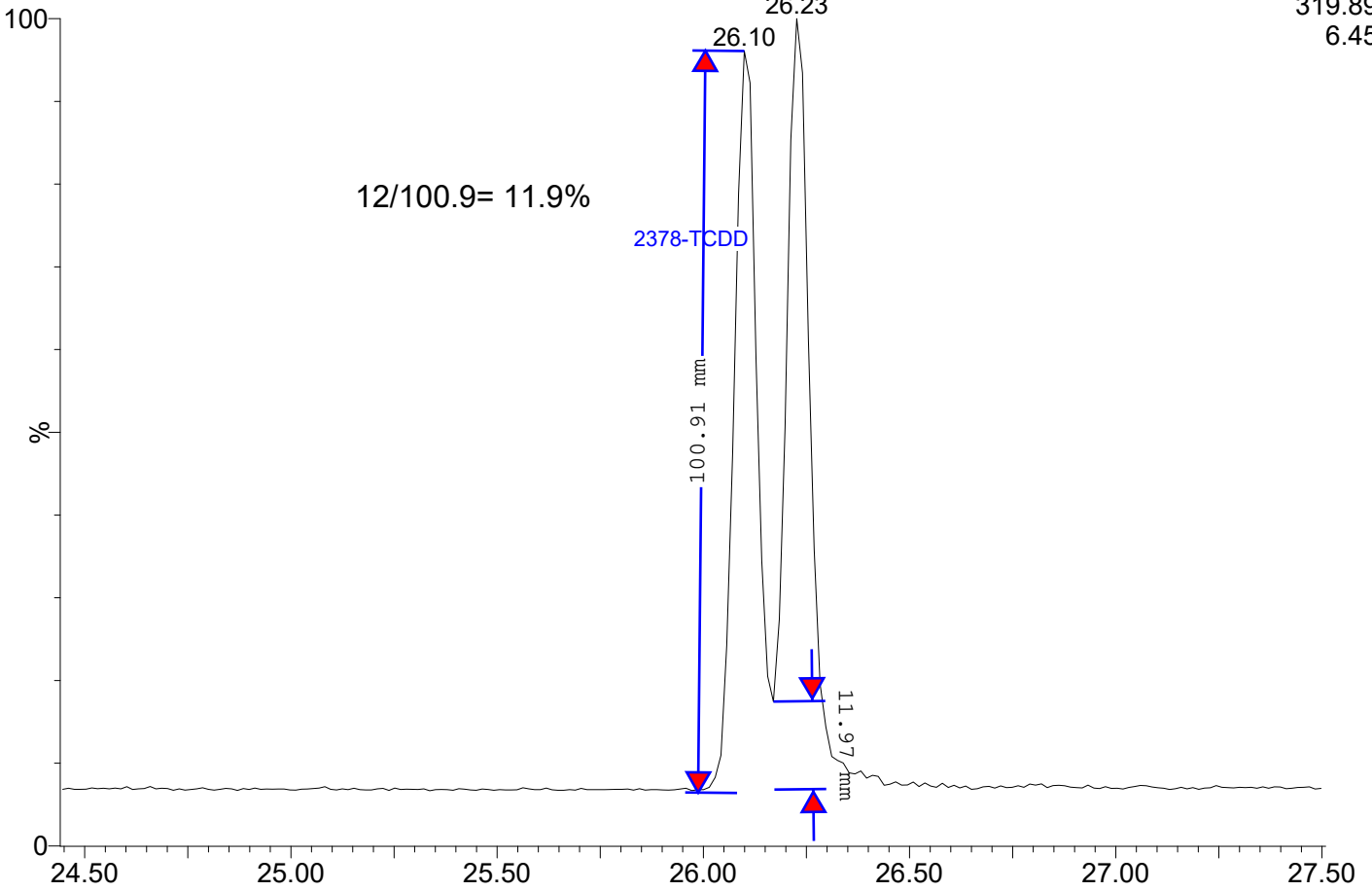


23073103

1: Voltage SIR 14 Channels EI+

319.8965

6.45e5

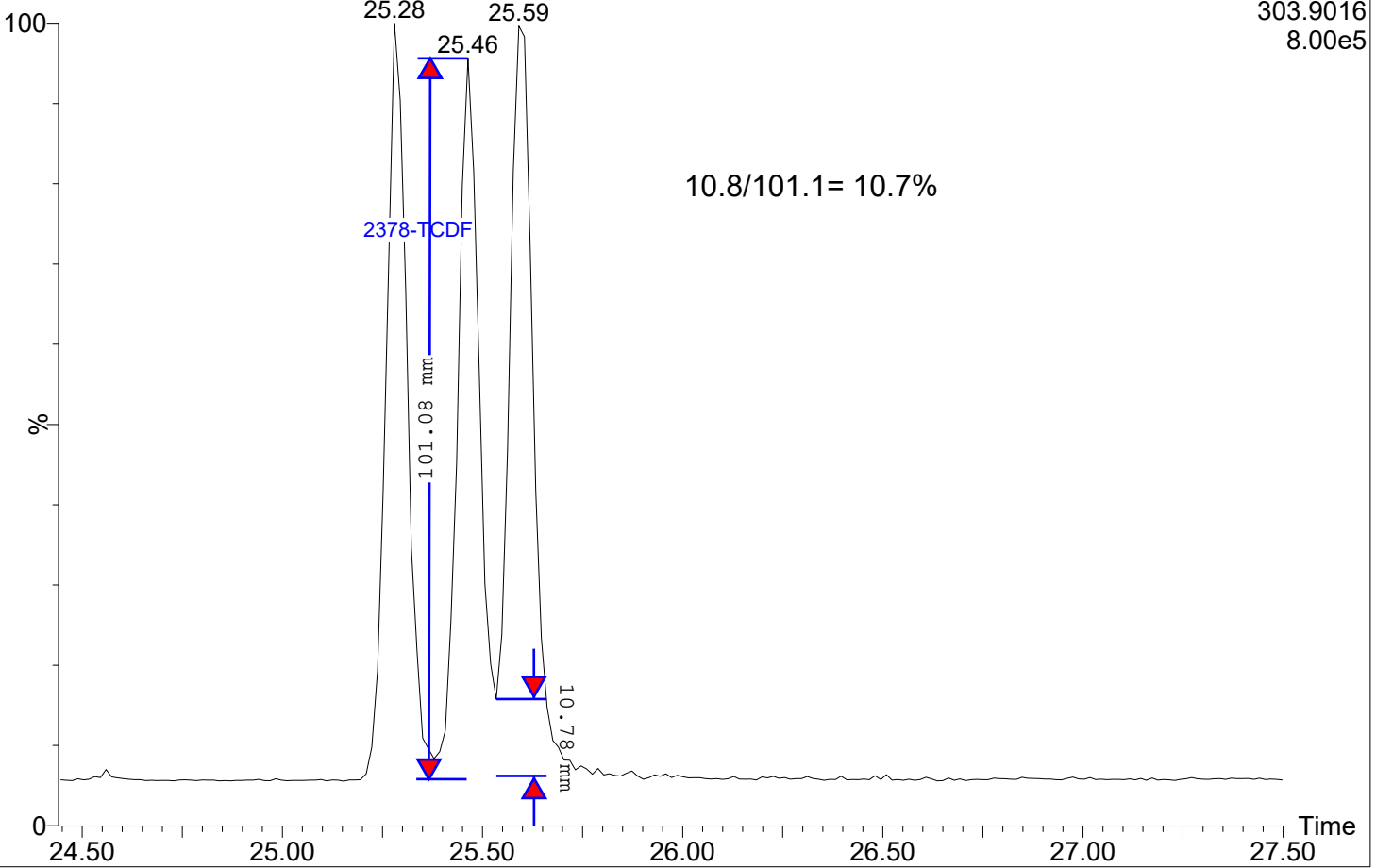


23073103

1: Voltage SIR 14 Channels EI+

303.9016

8.00e5





CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: AUTOSPEC01

Calibration: GG00074

Lab File ID: 23071311

Calibration Date: 07/13/2023

Sequence: SLG0149

Injection Date: 07/13/23

Lab Sample ID: SLG0149-CCV1

Injection Time: 18:58

Sequence Name: CS3A2

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	9.97	0.9514111	0.9483368		-0.3	+/-16
2,3,7,8-TCDD	A	10.000	9.76	1.1965450	1.1684230		-2.4	+/-22
1,2,3,7,8-PeCDF	A	50.000	51.6	0.9629318	0.9944299		3.3	+/-18
2,3,4,7,8-PeCDF	A	50.000	49.3	1.0720220	1.0560600		-1.5	+/-18
1,2,3,7,8-PeCDD	A	50.000	53.2	1.1294370	1.2017300		6.4	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	50.8	1.1416950	1.1596330		1.6	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	50.1	1.0995640	1.1010820		0.1	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	53.8	1.1377240	1.2245730		7.6	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	52.7	1.0664070	1.1243760		5.4	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	51.1	0.9171830	0.9373861		2.2	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.5	0.9440591	0.9714753		2.9	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	49.7	0.8690250	0.8629539		-0.7	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	52.9	1.2097500	1.2805810		5.9	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.7	1.2126720	1.2546520		3.5	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	50.5	1.2367380	1.2489380		1.0	+/-14
OCDF	A	100.00	89.9	1.3906120	1.2494950		-10.1	+/-37
OCDD	A	100.00	91.0	1.2124000	1.1031040		-9.0	+/-21
13C12-2,3,7,8-TCDF	A	100.00	92.2	1.9196320	1.7707646		-7.8	+/-29
13C12-2,3,7,8-TCDD	A	100.00	102	1.1042880	1.1248613		1.9	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	95.2	1.4552880	1.3856459		-4.8	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	97.3	1.3628570	1.3266731		-2.7	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	94.2	0.7702446	0.7256786		-5.8	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	98.8	1.1186760	1.1049118		-1.2	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	103	1.3428140	1.3896040		3.5	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	98.8	1.1125610	1.0994289		-1.2	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	97.9	0.9585411	0.9383872		-2.1	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	101	0.9591496	0.9696799		1.1	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	109	1.1200970	1.2251745		9.4	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	103	1.0583540	1.0895203		2.9	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	99.5	0.8085515	0.8041567		-0.5	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	109	0.6403352	0.6999294		9.3	+/-28
13C12-OCDD	A	200.00	241	0.5553207	0.6691798		20.5	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	10.3	1.1293930	1.1674381		3.4	

* 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: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: AUTOSPEC01

Calibration: GG00074

Lab File ID: 23071310

Calibration Date: 07/13/2023

Sequence: SLG0149

Injection Date: 07/13/23

Lab Sample ID: SLG0149-SCV1

Injection Time: 18:10

Sequence Name: ICVCA

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	9.71	0.9514111	0.9240087		-2.9	
2,3,7,8-TCDD	A	10.000	9.84	1.1965450	1.1777540		-1.6	
1,2,3,7,8-PeCDF	A	50.000	48.6	0.9629318	0.9357937		-2.8	
2,3,4,7,8-PeCDF	A	50.000	48.9	1.0720220	1.0478390		-2.3	
1,2,3,7,8-PeCDD	A	50.000	52.1	1.1294370	1.1764290		4.2	
1,2,3,4,7,8-HxCDF	A	50.000	48.8	1.1416950	1.1132860		-2.5	
1,2,3,6,7,8-HxCDF	A	50.000	50.0	1.0995640	1.1003730		0.07	
2,3,4,6,7,8-HxCDF	A	50.000	54.9	1.1377240	1.2501760		9.9	
1,2,3,7,8,9-HxCDF	A	50.000	52.1	1.0664070	1.1110870		4.2	
1,2,3,4,7,8-HxCDD	A	50.000	51.6	0.9171830	0.9467295		3.2	
1,2,3,6,7,8-HxCDD	A	50.000	50.0	0.9440591	0.9433784		-0.07	
1,2,3,7,8,9-HxCDD	A	50.000	51.4	0.8690250	9339.402		2.8	
1,2,3,4,6,7,8-HpCDF	A	50.000	52.3	1.2097500	1.2643380		4.5	
1,2,3,4,7,8,9-HpCDF	A	50.000	51.3	1.2126720	1.2443060		2.6	
1,2,3,4,6,7,8-HpCDD	A	50.000	53.6	1.2367380	1.3251970		7.2	
OCDF	A	100.00	88.6	1.3906120	1.2315080		-11.4	
OCDD	A	100.00	88.3	1.2124000	1.0709470		-11.7	
13C12-2,3,7,8-TCDF	A	100.00	101	1.9196320	1.9292564		0.5	
13C12-2,3,7,8-TCDD	A	100.00	103	1.1042880	1.1407086		3.3	
13C12-1,2,3,7,8-PeCDF	A	100.00	105	1.4552880	1.5246049		4.8	
13C12-2,3,4,7,8-PeCDF	A	100.00	104	1.3628570	1.4193820		4.1	
13C12-1,2,3,7,8-PeCDD	A	100.00	105	0.7702446	0.8059151		4.6	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	97.7	1.1186760	1.0930548		-2.3	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	99.6	1.3428140	1.3368565		-0.4	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	95.1	1.1125610	1.0579251		-4.9	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	95.0	0.9585411	0.9105452		-5.0	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	100	0.9591496	0.9591951		0.005	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	105	1.1200970	1.1748421		4.9	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	96.0	1.0583540	1.0157989		-4.0	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	99.4	0.8085515	0.8034936		-0.6	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	102	0.6403352	0.6552746		2.3	
13C12-OCDD	A	200.00	225	0.5553207	0.6241363		12.4	
37C14-2,3,7,8-TCDD	A	10.000	9.97	1.1293930	1.1258123		-0.3	

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Instrument ID: AUTOSPEC01

Calibration: GG00074

Lab File ID: 23073112

Calibration Date: 07/13/2023

Sequence: SLG0303

Injection Date: 07/31/23

Lab Sample ID: SLG0303-CCV1

Injection Time: 21:08

Sequence Name: CS3C2

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	9.59	0.9514111	0.9120245		-4.1	+/-16
2,3,7,8-TCDD	A	10.000	9.49	1.1965450	1.1359360		-5.1	+/-22
1,2,3,7,8-PeCDF	A	50.000	50.3	0.9629318	0.9688373		0.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	49.6	1.0720220	1.0644430		-0.7	+/-18
1,2,3,7,8-PeCDD	A	50.000	54.4	1.1294370	1.2290200		8.8	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	50.0	1.1416950	1.1424740		0.07	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	50.3	1.0995640	1.1054880		0.5	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	50.8	1.1377240	1.1564220		1.6	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	50.2	1.0664070	1.0712460		0.5	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	48.0	0.9171830	0.8811963		-3.9	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	48.0	0.9440591	0.9055852		-4.1	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	54.0	0.8690250	0.9380532		7.9	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.1	1.2097500	1.1393870		-5.8	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	47.3	1.2126720	1.1474300		-5.4	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.0	1.2367380	1.1618990		-6.1	+/-14
OCDF	A	100.00	71.4	1.3906120	0.9922723		-28.6	+/-37
OCDD	A	100.00	87.9	1.2124000	1.0654300		-12.1	+/-21
13C12-2,3,7,8-TCDF	A	100.00	85.7	1.9196320	1.6443921		-14.3	+/-29
13C12-2,3,7,8-TCDD	A	100.00	105	1.1042880	1.1568059		4.8	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	98.6	1.4552880	1.4344297		-1.4	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	101	1.3628570	1.3772575		1.1	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	103	0.7702446	0.7951989		3.2	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	81.5	1.1186760	0.9115218		-18.5	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	70.0	1.3428140	0.9402260		-30.0	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	80.5	1.1125610	0.8958358		-19.5	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	81.3	0.9585411	0.7793545		-18.7	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	94.0	0.9591496	0.9015340		-6.0	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	80.4	1.1200970	0.9001717		-19.6	+/-15 *
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	82.5	1.0583540	0.8727306		-17.5	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	83.8	0.8085515	0.6773301		-16.2	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	106	0.6403352	0.6761458		5.6	+/-28
13C12-OCDD	A	200.00	243	0.5553207	0.6739230		21.4	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	10.3	1.1293930	1.1648305		3.1	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:22:08 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
 Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.464	1.001	6.713e4	8.524e4	0.951	0.788	0.770	1207	1438	1.00e6	1.29e6	831.1	895.4	NO	bb	bb	9.586
12378-PeCDF	29.615	1.000	4.375e5	2.685e5	0.963	1.630	1.550	2109	1919	6.70e6	4.11e6	3176.6	2143.8	NO	bb	bb	50.307
23478-PeCDF	30.952	1.000	4.584e5	2.863e5	1.072	1.601	1.550	2109	1919	7.00e6	4.38e6	3321.0	2281.4	NO	bb	bb	49.647
123478-HxCDF	34.595	1.001	3.304e5	2.658e5	1.142	1.243	1.240	1819	1192	5.28e6	4.21e6	2903.7	3533.8	NO	bd	bd	50.034
234678-HxCDF	35.598	1.000	3.313e5	2.618e5	1.138	1.266	1.240	1819	1192	5.22e6	4.15e6	2867.1	3481.6	NO	bb	bb	50.822
123678-HxCDF	34.729	1.000	3.300e5	2.651e5	1.100	1.245	1.240	1819	1192	5.22e6	4.19e6	2871.5	3513.3	NO	db	db	50.269
123789-HxCDF	36.634	1.000	2.660e5	2.120e5	1.066	1.255	1.240	1819	1192	4.21e6	3.35e6	2312.6	2810.1	NO	bb	bb	50.227
1234678-HpCDF	38.484	1.000	2.925e5	2.768e5	1.210	1.057	1.050	1577	1699	4.92e6	4.74e6	3117.0	2790.8	NO	bb	bb	47.092
1234789-HpCDF	40.679	1.000	2.293e5	2.157e5	1.213	1.063	1.050	1577	1699	3.35e6	3.23e6	2125.2	1900.5	NO	bb	bb	47.310
OCDF	44.838	1.006	3.663e5	3.994e5	1.391	0.917	0.890	1786	1142	4.38e6	4.70e6	2449.9	4113.9	NO	bb	bd	71.355
2378-TCDD	26.099	1.001	5.862e4	7.489e4	1.197	0.783	0.770	1157	916	9.02e5	1.14e6	779.6	1239.4	NO	bb	bb	9.493
12378-PeCDD	31.208	1.001	3.009e5	1.956e5	1.129	1.539	1.550	1523	1729	4.66e6	3.04e6	3060.1	1755.4	NO	bb	bb	54.409
123478-HxCDD	35.721	1.001	2.494e5	2.054e5	0.917	1.214	1.240	1412	1377	4.15e6	3.36e6	2937.4	2437.9	NO	bd	bd	48.038
123678-HxCDD	35.832	1.000	2.559e5	2.109e5	0.944	1.214	1.240	1412	1377	4.18e6	3.50e6	2960.0	2540.1	NO	db	db	47.962
123789-HxCDD	36.222	1.011	2.670e5	2.168e5	0.869	1.232	1.240	1412	1377	4.44e6	3.59e6	3141.3	2609.1	NO	bb	bb	53.972
1234678-HpCDD	39.954	1.000	2.306e5	2.192e5	1.237	1.052	1.050	1513	1619	3.62e6	3.47e6	2392.0	2142.2	NO	bb	bb	46.974
OCDD	44.600	1.000	3.842e5	4.380e5	1.212	0.877	0.890	1497	1936	4.73e6	5.41e6	3162.0	2793.9	NO	bb	bb	87.878
13C-2378-TCDF	25.449	1.007	7.340e5	9.367e5	1.920	0.784	0.770	1057	1531	1.14e7	1.46e7	10814.0	9508.7	NO	bb	bb	85.662
13C-12378-PeCDF	29.604	1.171	8.862e5	5.711e5	1.455	1.552	1.550	2314	1478	1.37e7	8.81e6	5922.0	5961.5	NO	bb	bb	98.567
13C-23478-PeCDF	30.941	1.224	8.521e5	5.472e5	1.363	1.557	1.550	2314	1478	1.34e7	8.49e6	5771.4	5748.1	NO	bb	bb	101.057
13C-123478-HxCDF	34.573	0.955	3.571e5	6.867e5	1.119	0.520	0.510	1383	2045	5.74e6	1.11e7	4152.5	5447.8	NO	bd	bd	81.482
13C-123678-HxCDF	34.718	0.959	3.648e5	7.118e5	1.343	0.513	0.510	1383	2045	5.71e6	1.10e7	4130.4	5358.8	NO	db	db	70.019
13C-234678-HxCDF	35.587	0.983	3.493e5	6.765e5	1.113	0.516	0.510	1383	2045	5.66e6	1.10e7	4091.9	5365.1	NO	bb	bb	80.520
13C-123789-HxCDF	36.623	1.011	3.020e5	5.904e5	0.959	0.512	0.510	1383	2045	4.75e6	9.30e6	3433.2	4549.3	NO	bb	bb	81.306
13C-1234678-HpCDF	38.472	1.062	3.090e5	6.903e5	1.058	0.448	0.440	1699	1760	5.31e6	1.19e7	3125.7	6756.4	NO	bb	bb	82.461
13C-1234789-HpCDF	40.667	1.123	2.394e5	5.362e5	0.809	0.447	0.440	1699	1760	3.61e6	8.16e6	2123.6	4637.3	NO	bb	bb	83.771
13C-1234-TCDD	25.280	0.000	4.484e5	5.676e5	1.000	0.790	0.770	2108	1003	6.87e6	8.78e6	3258.0	8753.7	NO	bb	bb	100.000
13C-2378-TCDD	26.085	1.032	5.171e5	6.582e5	1.104	0.786	0.770	2108	1003	8.13e6	1.04e7	3858.4	10316.6	NO	bb	bb	104.756
13C-12378-PeCDD	31.186	1.234	5.012e5	3.067e5	0.770	1.634	1.550	947	989	7.82e6	4.75e6	8254.2	4807.2	NO	bb	bb	103.240
13C-123478-HxCDD	35.698	0.986	5.749e5	4.574e5	0.959	1.257	1.240	1663	1556	9.45e6	7.56e6	5682.4	4857.2	NO	bd	bd	93.993
13C-123678-HxCDD	35.821	0.989	5.695e5	4.613e5	1.120	1.234	1.240	1663	1556	9.32e6	7.48e6	5603.9	4807.8	NO	db	db	80.365
13C-1234678-HpCDD	39.943	1.103	4.019e5	3.723e5	0.640	1.079	1.050	1240	1227	6.53e6	6.01e6	5263.6	4896.0	NO	bb	bb	105.592
13C-OCDD	44.581	1.231	7.372e5	8.062e5	0.555	0.914	0.890	1792	1889	9.44e6	1.02e7	5268.9	5411.6	NO	bb	bb	242.715
13C-123789-HxCDD	36.211	0.000	6.408e5	5.043e5	1.000	1.271	1.240	1663	1556	1.02e7	7.94e6	6156.4	5100.3	NO	bd	bb	100.000
37CL-2378-TCDD	26.099	1.032	1.183e5		1.129			931		1.77e6		1905.2			bb		10.314

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	21.975	0.863	7.955e4	9.772e4	1.201	0.814	0.770	1207	1438	1.31e6	1.60e6	1086.7	1110.5	NO	bb	bb	8.835
1289-TCDF	26.961	1.059	6.534e4	8.380e4	0.950	0.780	0.770	1207	1438	1.00e6	1.28e6	830.8	892.0	NO	db	db	9.392
13468-PECDF	26.820	0.906	4.570e5	3.022e5	1.142	1.512	1.550	679	756	7.19e6	4.75e6	10594.0	6283.5	NO	bb	bb	45.596
12389-PECDF	31.988	1.081	4.512e5	2.848e5	0.917	1.584	1.550	2109	1919	6.95e6	4.39e6	3293.4	2284.6	NO	bb	bb	55.081
123468-HXCDF	32.913	0.952	3.309e5	2.665e5	1.332	1.241	1.240	1819	1192	5.09e6	4.10e6	2800.7	3438.1	NO	bb	bb	42.972
1368-TCDD	23.246	0.891	5.382e4	6.968e4	1.148	0.772	0.770	1157	916	8.91e5	1.15e6	770.5	1255.2	NO	bb	bb	9.153
1289-TCDD	26.707	1.024	5.437e4	6.749e4	0.955	0.805	0.770	1157	916	8.35e5	1.01e6	722.2	1105.4	NO	bb	bb	10.857
12479-PECDD	28.490	0.914	5.070e5	3.211e5	2.043	1.579	1.550	1523	1729	4.93e6	3.15e6	3237.5	1819.8	NO	bb	bb	50.177
12389-PECDD	31.598	1.013	3.725e5	2.357e5	1.326	1.580	1.550	1523	1729	5.65e6	3.55e6	3708.0	2055.7	NO	bb	bb	56.796
124679-HXCDD	33.693	0.944	2.724e5	2.225e5	1.104	1.224	1.240	1412	1377	4.37e6	3.54e6	3096.7	2572.5	NO	bb	bb	43.435
1234679-HPCDD	38.929	0.975	2.639e5	2.502e5	1.554	1.055	1.050	1513	1619	4.40e6	4.18e6	2907.9	2582.3	NO	bb	bb	42.719
Total-tetrafurans			2.156e5		1.034			1207		3.38e6							28.295
Total-penta1			4.570e5					679		7.19e6							45.596
Total-pentafurans			1.420e6		0.984			2109		2.18e7							163.395
Total-hexafurans			1.589e6		1.155			1819		2.50e7							244.324
Total-heptafurans			5.234e5		1.211			1577		8.30e6							94.714
Total-Furans			4.571e6		1.119			1207		7.00e7							647.679
Total-tetradoxins			2.841e5		1.100			1157		4.03e6							50.189
Total-pentadoxins			1.182e6		1.499			1523		1.53e7							161.573
Total-hexadoxins			1.045e6		0.958			1412		1.71e7							193.407
Total-heptadoxins			4.945e5		1.396			1513		8.02e6							89.694
Total-Dioxins			3.389e6		1.203			1157		4.92e7							582.741
Total-TEQ			7.960e6					1157		1.19e8							1230.420
FUNCTION1 PFK			4.774e5					345274		1.13e7							
FUNCTION2 PFK			1.494e5					189597		4.23e6							0.000
FUNCTION3 PFK			1.081e5					230033		3.38e6							0.000
FUNCTION4 PFK			2.387e5					196676		5.82e6							
FUNCTION5 PFK			5.716e4					123911		2.49e6							
FUNCTION1 HXCD...			5.231e2					532		8.42e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			4.845e2					752		7.95e3							0.000
FUNCTION3 OCDPE			6.997e2					924		1.38e4							0.000
FUNCTION4 NCDPE			3.249e2					939		5.09e3							0.000
FUNCTION5 DCDPE			8.636e1					664		1.51e3							0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
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Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29

Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.96	6.534e4	8.380e4	0.950	0.78	0.77	830.8	YES	NO	db	db	9.392
2	Total-tetrafurans	26.82	2.545e3	3.330e3	1.034	0.76	0.77	39.1	YES	NO	bd	bd	0.340
3	2378-TCDF	25.46	6.713e4	8.524e4	0.951	0.79	0.77	831.1	YES	NO	bb	bb	9.586
4	Total-tetrafurans	24.56	4.016e2	5.990e2	1.034	0.67	0.77	6.1	YES	NO	bb	bb	0.058
5	Total-tetrafurans	24.23	6.809e2	7.767e2	1.034	0.88	0.77	9.1	YES	NO	bb	bd	0.084
6	1368-TCDF	21.97	7.955e4	9.772e4	1.201	0.81	0.77	1086.7	YES	NO	bb	bb	8.835

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	26.82	4.570e5	3.022e5	1.142	1.51	1.55	10594.0	YES	NO	bb	bb	45.596

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	30.95	4.584e5	2.863e5	1.072	1.60	1.55	3321.0	YES	NO	bb	bb	49.647
2	12378-PeCDF	29.61	4.375e5	2.685e5	0.963	1.63	1.55	3176.6	YES	NO	bb	bb	50.307
3	Total-pentafurans	28.47	7.265e4	4.485e4	0.984	1.62	1.55	523.3	YES	NO	bb	bb	8.361
4	12389-PECDF	31.99	4.512e5	2.848e5	0.917	1.58	1.55	3293.4	YES	NO	bb	bb	55.081

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123468-HxCDF	32.91	3.309e5	2.665e5	1.332	1.24	1.24	2800.7	YES	NO	bb	bb	42.972
2	123789-HxCDF	36.63	2.660e5	2.120e5	1.066	1.25	1.24	2312.6	YES	NO	bb	bb	50.227
3	234678-HxCDF	35.60	3.313e5	2.618e5	1.138	1.27	1.24	2867.1	YES	NO	bb	bb	50.822
4	123678-HxCDF	34.73	3.300e5	2.651e5	1.100	1.25	1.24	2871.5	YES	NO	db	db	50.269
5	123478-HxCDF	34.60	3.304e5	2.658e5	1.142	1.24	1.24	2903.7	YES	NO	bd	bd	50.034

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.68	2.293e5	2.157e5	1.213	1.06	1.05	2125.2	YES	NO	bb	bb	47.310
2	Total-heptafurans	39.15	1.611e3	1.742e3	1.211	0.93	1.05	16.2	YES	NO	bb	bb	0.312
3	1234678-HpCDF	38.48	2.925e5	2.768e5	1.210	1.06	1.05	3117.0	YES	NO	bb	bb	47.092

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	26.96	6.534e4	8.380e4	0.950	0.78	0.77	830.8	YES	NO	db	db	9.392
2	Total-tetrafurans	26.82	2.545e3	3.330e3	1.034	0.76	0.77	39.1	YES	NO	bd	bd	0.340
3	2378-TCDF	25.46	6.713e4	8.524e4	0.951	0.79	0.77	831.1	YES	NO	bb	bb	9.586
4	Total-tetrafurans	24.56	4.016e2	5.990e2	1.034	0.67	0.77	6.1	YES	NO	bb	bb	0.058
5	Total-tetrafurans	24.23	6.809e2	7.767e2	1.034	0.88	0.77	9.1	YES	NO	bb	bd	0.084
6	1368-TCDF	21.97	7.955e4	9.772e4	1.201	0.81	0.77	1086.7	YES	NO	bb	bb	8.835
7	23478-PeCDF	30.95	4.584e5	2.863e5	1.072	1.60	1.55	3321.0	YES	NO	bb	bb	49.647
8	12378-PeCDF	29.61	4.375e5	2.685e5	0.963	1.63	1.55	3176.6	YES	NO	bb	bb	50.307
9	Total-pentafurans	28.47	7.265e4	4.485e4	0.984	1.62	1.55	523.3	YES	NO	bb	bb	8.361
10	123468-HxCDF	32.91	3.309e5	2.665e5	1.332	1.24	1.24	2800.7	YES	NO	bb	bb	42.972
11	12389-PECDF	31.99	4.512e5	2.848e5	0.917	1.58	1.55	3293.4	YES	NO	bb	bb	55.081
12	123789-HxCDF	36.63	2.660e5	2.120e5	1.066	1.25	1.24	2312.6	YES	NO	bb	bb	50.227
13	234678-HxCDF	35.60	3.313e5	2.618e5	1.138	1.27	1.24	2867.1	YES	NO	bb	bb	50.822
14	123678-HxCDF	34.73	3.300e5	2.651e5	1.100	1.25	1.24	2871.5	YES	NO	db	db	50.269
15	123478-HxCDF	34.60	3.304e5	2.658e5	1.142	1.24	1.24	2903.7	YES	NO	bd	bd	50.034
16	1234789-HpCDF	40.68	2.293e5	2.157e5	1.213	1.06	1.05	2125.2	YES	NO	bb	bb	47.310
17	Total-heptafurans	39.15	1.611e3	1.742e3	1.211	0.93	1.05	16.2	YES	NO	bb	bb	0.312
18	1234678-HpCDF	38.48	2.925e5	2.768e5	1.210	1.06	1.05	3117.0	YES	NO	bb	bb	47.092
19	OCDF	44.84	3.663e5	3.994e5	1.391	0.92	0.89	2449.9	YES	NO	bb	bd	71.355
20	13468-PECDF	26.82	4.570e5	3.022e5	1.142	1.51	1.55	10594.0	YES	NO	bb	bb	45.596

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.71	5.437e4	6.749e4	0.955	0.81	0.77	722.2	YES	NO	bb	bb	10.857
2	2378-TCDD	26.10	5.862e4	7.489e4	1.197	0.78	0.77	779.6	YES	NO	bb	bb	9.493
3	Total-tetradioxins	25.77	8.892e4	1.137e5	1.100	0.78	0.77	823.1	YES	NO	bb	bb	15.672
4	Total-tetradioxins	25.29	2.769e4	3.556e4	1.100	0.78	0.77	383.8	YES	NO	bb	bb	4.893
5	Total-tetradioxins	24.72	7.109e2	8.584e2	1.100	0.83	0.77	8.1	YES	NO	bb	bb	0.121
6	1368-TCDD	23.25	5.382e4	6.968e4	1.148	0.77	0.77	770.5	YES	NO	bb	bb	9.153

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, 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	31.60	3.725e5	2.357e5	1.326	1.58	1.55	3708.0	YES	NO	bb	bb	56.796
2	12378-PeCDD	31.21	3.009e5	1.956e5	1.129	1.54	1.55	3060.1	YES	NO	bb	bb	54.409
3	Total-pentadioxins	30.54	1.394e3	9.238e2	1.499	1.51	1.55	14.1	YES	NO	bb	bb	0.191
4	12479-PECDD	28.49	5.070e5	3.211e5	2.043	1.58	1.55	3237.5	YES	NO	bb	bb	50.177

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	35.83	2.559e5	2.109e5	0.944	1.21	1.24	2960.0	YES	NO	db	db	47.962
2	123478-HxCDD	35.72	2.494e5	2.054e5	0.917	1.21	1.24	2937.4	YES	NO	bd	bd	48.038
3	124679-HxCDD	33.69	2.724e5	2.225e5	1.104	1.22	1.24	3096.7	YES	NO	bb	bb	43.435
4	123789-HxCDD	36.22	2.670e5	2.168e5	0.869	1.23	1.24	3141.3	YES	NO	bb	bb	53.972

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	39.95	2.306e5	2.192e5	1.237	1.05	1.05	2392.0	YES	NO	bb	bb	46.974
2	1234679-HPCDD	38.93	2.639e5	2.502e5	1.554	1.05	1.05	2907.9	YES	NO	bb	bb	42.719

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.71	5.437e4	6.749e4	0.955	0.81	0.77	722.2	YES	NO	bb	bb	10.857
2	2378-TCDD	26.10	5.862e4	7.489e4	1.197	0.78	0.77	779.6	YES	NO	bb	bb	9.493
3	Total-tetradoxins	25.77	8.892e4	1.137e5	1.100	0.78	0.77	823.1	YES	NO	bb	bb	15.672
4	Total-tetradoxins	25.29	2.769e4	3.556e4	1.100	0.78	0.77	383.8	YES	NO	bb	bb	4.893
5	Total-tetradoxins	24.72	7.109e2	8.584e2	1.100	0.83	0.77	8.1	YES	NO	bb	bb	0.121
6	1368-TCDD	23.25	5.382e4	6.968e4	1.148	0.77	0.77	770.5	YES	NO	bb	bb	9.153
7	12389-PECDD	31.60	3.725e5	2.357e5	1.326	1.58	1.55	3708.0	YES	NO	bb	bb	56.796
8	12378-PeCDD	31.21	3.009e5	1.956e5	1.129	1.54	1.55	3060.1	YES	NO	bb	bb	54.409
9	Total-pentadoxins	30.54	1.394e3	9.238e2	1.499	1.51	1.55	14.1	YES	NO	bb	bb	0.191
10	12479-PECDD	28.49	5.070e5	3.211e5	2.043	1.58	1.55	3237.5	YES	NO	bb	bb	50.177
11	123678-HxCDD	35.83	2.559e5	2.109e5	0.944	1.21	1.24	2960.0	YES	NO	db	db	47.962
12	123478-HxCDD	35.72	2.494e5	2.054e5	0.917	1.21	1.24	2937.4	YES	NO	bd	bd	48.038
13	124679-HxCDD	33.69	2.724e5	2.225e5	1.104	1.22	1.24	3096.7	YES	NO	bb	bb	43.435
14	123789-HxCDD	36.22	2.670e5	2.168e5	0.869	1.23	1.24	3141.3	YES	NO	bb	bb	53.972
15	OCDD	44.60	3.842e5	4.380e5	1.212	0.88	0.89	3162.0	YES	NO	bb	bb	87.878
16	1234678-HpCDD	39.95	2.306e5	2.192e5	1.237	1.05	1.05	2392.0	YES	NO	bb	bb	46.974
17	1234679-HPCDD	38.93	2.639e5	2.502e5	1.554	1.05	1.05	2907.9	YES	NO	bb	bb	42.719

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	26.96	6.534e4	8.380e4	0.950	0.78	0.77	830.8	YES	NO	db	db	9.392
2	Total-tetrafurans	26.82	2.545e3	3.330e3	1.034	0.76	0.77	39.1	YES	NO	bd	bd	0.340
3	2378-TCDF	25.46	6.713e4	8.524e4	0.951	0.79	0.77	831.1	YES	NO	bb	bb	9.586
4	Total-tetrafurans	24.56	4.016e2	5.990e2	1.034	0.67	0.77	6.1	YES	NO	bb	bb	0.058
5	Total-tetrafurans	24.23	6.809e2	7.767e2	1.034	0.88	0.77	9.1	YES	NO	bb	bd	0.084
6	1368-TCDF	21.97	7.955e4	9.772e4	1.201	0.81	0.77	1086.7	YES	NO	bb	bb	8.835
7	23478-PeCDF	30.95	4.584e5	2.863e5	1.072	1.60	1.55	3321.0	YES	NO	bb	bb	49.647
8	12378-PeCDF	29.61	4.375e5	2.685e5	0.963	1.63	1.55	3176.6	YES	NO	bb	bb	50.307
9	Total-pentafurans	28.47	7.265e4	4.485e4	0.984	1.62	1.55	523.3	YES	NO	bb	bb	8.361
10	123468-HXCDF	32.91	3.309e5	2.665e5	1.332	1.24	1.24	2800.7	YES	NO	bb	bb	42.972
11	12389-PECDF	31.99	4.512e5	2.848e5	0.917	1.58	1.55	3293.4	YES	NO	bb	bb	55.081
12	123789-HxCDF	36.63	2.660e5	2.120e5	1.066	1.25	1.24	2312.6	YES	NO	bb	bb	50.227
13	234678-HxCDF	35.60	3.313e5	2.618e5	1.138	1.27	1.24	2867.1	YES	NO	bb	bb	50.822
14	123678-HxCDF	34.73	3.300e5	2.651e5	1.100	1.25	1.24	2871.5	YES	NO	db	db	50.269
15	123478-HxCDF	34.60	3.304e5	2.658e5	1.142	1.24	1.24	2903.7	YES	NO	bd	bd	50.034
16	1234789-HpCDF	40.68	2.293e5	2.157e5	1.213	1.06	1.05	2125.2	YES	NO	bb	bb	47.310
17	Total-heptafurans	39.15	1.611e3	1.742e3	1.211	0.93	1.05	16.2	YES	NO	bb	bb	0.312
18	1234678-HpCDF	38.48	2.925e5	2.768e5	1.210	1.06	1.05	3117.0	YES	NO	bb	bb	47.092
19	OCDF	44.84	3.663e5	3.994e5	1.391	0.92	0.89	2449.9	YES	NO	bb	bd	71.355
20	13468-PECDF	26.82	4.570e5	3.022e5	1.142	1.51	1.55	10594.0	YES	NO	bb	bb	45.596
21	1289-TCDD	26.71	5.437e4	6.749e4	0.955	0.81	0.77	722.2	YES	NO	bb	bb	10.857
22	2378-TCDD	26.10	5.862e4	7.489e4	1.197	0.78	0.77	779.6	YES	NO	bb	bb	9.493
23	Total-tetradiioxins	25.77	8.892e4	1.137e5	1.100	0.78	0.77	823.1	YES	NO	bb	bb	15.672
24	Total-tetradiioxins	25.29	2.769e4	3.556e4	1.100	0.78	0.77	383.8	YES	NO	bb	bb	4.893
25	Total-tetradiioxins	24.72	7.109e2	8.584e2	1.100	0.83	0.77	8.1	YES	NO	bb	bb	0.121
26	1368-TCDD	23.25	5.382e4	6.968e4	1.148	0.77	0.77	770.5	YES	NO	bb	bb	9.153
27	12389-PECDD	31.60	3.725e5	2.357e5	1.326	1.58	1.55	3708.0	YES	NO	bb	bb	56.796
28	12378-PeCDD	31.21	3.009e5	1.956e5	1.129	1.54	1.55	3060.1	YES	NO	bb	bb	54.409
29	Total-pentadiioxins	30.54	1.394e3	9.238e2	1.499	1.51	1.55	14.1	YES	NO	bb	bb	0.191
30	12479-PECDD	28.49	5.070e5	3.211e5	2.043	1.58	1.55	3237.5	YES	NO	bb	bb	50.177
31	123678-HxCDD	35.83	2.559e5	2.109e5	0.944	1.21	1.24	2960.0	YES	NO	db	db	47.962
32	123478-HxCDD	35.72	2.494e5	2.054e5	0.917	1.21	1.24	2937.4	YES	NO	bd	bd	48.038
33	124679-HXCDD	33.69	2.724e5	2.225e5	1.104	1.22	1.24	3096.7	YES	NO	bb	bb	43.435
34	123789-HxCDD	36.22	2.670e5	2.168e5	0.869	1.23	1.24	3141.3	YES	NO	bb	bb	53.972
35	OCDD	44.60	3.842e5	4.380e5	1.212	0.88	0.89	3162.0	YES	NO	bb	bb	87.878
36	1234678-HpCDD	39.95	2.306e5	2.192e5	1.237	1.05	1.05	2392.0	YES	NO	bb	bb	46.974
37	1234679-HPCDD	38.93	2.639e5	2.502e5	1.554	1.05	1.05	2907.9	YES	NO	bb	bb	42.719

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

Printed: Tuesday, August 01, 2023 08:22:08 Pacific Daylight Time

ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk**PFK1**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.86	2.196e4					1.6	NO		bd		
2	FUNCTION1 PFK	22.41	1.689e4					1.0	NO		bb		
3	FUNCTION1 PFK	22.19	1.170e4					1.1	NO		bb		
4	FUNCTION1 PFK	22.09	3.132e3					0.6	NO		bb		
5	FUNCTION1 PFK	21.96	8.989e3					0.9	NO		bb		
6	FUNCTION1 PFK	21.61	1.604e4					1.4	NO		db		
7	FUNCTION1 PFK	21.55	5.595e3					0.8	NO		bd		
8	FUNCTION1 PFK	21.32	1.880e4					1.4	NO		bb		
9	FUNCTION1 PFK	21.13	1.964e3					0.4	NO		bb		
10	FUNCTION1 PFK	27.24	2.094e3					0.4	NO		bb		
11	FUNCTION1 PFK	26.96	6.030e3					0.9	NO		db		
12	FUNCTION1 PFK	26.93	5.929e3					0.8	NO		bd		
13	FUNCTION1 PFK	26.88	3.164e4					2.1	NO		db		
14	FUNCTION1 PFK	26.79	1.774e4					1.6	NO		bd		
15	FUNCTION1 PFK	26.51	3.236e3					0.7	NO		bb		
16	FUNCTION1 PFK	26.01	2.963e3					0.6	NO		bb		
17	FUNCTION1 PFK	25.97	2.175e3					0.4	NO		bb		
18	FUNCTION1 PFK	25.80	1.915e4					1.3	NO		bb		
19	FUNCTION1 PFK	25.04	2.713e4					0.9	NO		bb		
20	FUNCTION1 PFK	24.93	4.173e4					2.0	NO		bb		
21	FUNCTION1 PFK	23.99	9.562e3					0.8	NO		bb		
22	FUNCTION1 PFK	23.81	5.688e4					2.0	NO		bb		
23	FUNCTION1 PFK	23.43	6.234e3					0.7	NO		bb		
24	FUNCTION1 PFK	23.34	2.131e3					0.4	NO		bb		
25	FUNCTION1 PFK	23.06	6.762e4					1.8	NO		db		
26	FUNCTION1 PFK	27.64	4.001e3					0.7	NO		bb		
27	FUNCTION1 PFK	27.51	1.912e4					1.7	NO		bb		
28	FUNCTION1 PFK	27.46	3.041e3					0.6	NO		bb		
29	FUNCTION1 PFK	27.40	2.553e4					1.5	NO		db		
30	FUNCTION1 PFK	27.33	1.840e4					1.4	NO		bd		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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Printed: Tuesday, August 01, 2023 08:22:08 Pacific Daylight Time

ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk**PFK2**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.46	2.731e3					0.6	NO		bb		0.000
2	FUNCTION2 PFK	30.29	4.047e3					1.0	NO		bb		0.000
3	FUNCTION2 PFK	30.14	2.505e3					0.7	NO		bb		0.000
4	FUNCTION2 PFK	30.03	3.820e3					0.9	NO		bb		0.000
5	FUNCTION2 PFK	29.82	1.215e4					1.3	NO		bb		0.000
6	FUNCTION2 PFK	29.48	3.037e3					0.7	NO		bb		0.000
7	FUNCTION2 PFK	28.41	9.233e2					0.4	NO		bb		0.000
8	FUNCTION2 PFK	28.24	1.193e4					1.3	NO		db		0.000
9	FUNCTION2 PFK	28.14	1.152e4					1.6	NO		bd		0.000
10	FUNCTION2 PFK	27.80	2.868e4					2.2	NO		bb		0.000
11	FUNCTION2 PFK	32.42	9.897e3					1.2	NO		bb		0.000
12	FUNCTION2 PFK	32.13	7.081e3					1.3	NO		bb		0.000
13	FUNCTION2 PFK	31.84	5.373e3					1.2	NO		bb		0.000
14	FUNCTION2 PFK	31.69	3.548e3					0.8	NO		bb		0.000
15	FUNCTION2 PFK	31.43	7.602e3					1.1	NO		bb		0.000
16	FUNCTION2 PFK	30.92	2.153e3					0.6	NO		bb		0.000
17	FUNCTION2 PFK	30.87	9.700e3					1.6	NO		bb		0.000
18	FUNCTION2 PFK	30.81	7.534e3					1.4	NO		db		0.000
19	FUNCTION2 PFK	30.76	5.793e3					1.1	NO		bd		0.000
20	FUNCTION2 PFK	30.68	9.418e3					1.1	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	33.61	1.097e4					1.2	NO		bb		0.000
2	FUNCTION3 PFK	33.57	2.383e4					3.2	YES		db		0.000
3	FUNCTION3 PFK	33.50	1.843e4					2.2	NO		bd		0.000
4	FUNCTION3 PFK	33.28	1.458e3					0.6	NO		bb		0.000
5	FUNCTION3 PFK	32.66	2.156e4					2.2	NO		bb		0.000
6	FUNCTION3 PFK	36.73	6.393e3					1.2	NO		bb		0.000
7	FUNCTION3 PFK	36.00	2.738e3					0.8	NO		bb		0.000
8	FUNCTION3 PFK	35.95	7.150e3					1.3	NO		bb		0.000
9	FUNCTION3 PFK	35.25	1.556e4					1.9	NO		bb		0.000

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, 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	39.78	8.802e2					0.4	NO		bb		
2	FUNCTION4 PFK	39.48	1.130e3					0.5	NO		bb		
3	FUNCTION4 PFK	38.75	9.382e3					1.5	NO		bb		
4	FUNCTION4 PFK	38.66	1.699e4					1.2	NO		bb		
5	FUNCTION4 PFK	38.56	1.758e3					0.5	NO		bb		
6	FUNCTION4 PFK	38.39	2.541e3					0.7	NO		bb		
7	FUNCTION4 PFK	38.16	9.981e3					1.3	NO		bb		
8	FUNCTION4 PFK	37.98	4.847e3					1.0	NO		bb		
9	FUNCTION4 PFK	37.74	5.149e4					2.6	NO		bb		
10	FUNCTION4 PFK	37.64	2.611e3					1.2	NO		bb		
11	FUNCTION4 PFK	37.60	1.168e4					1.6	NO		bb		
12	FUNCTION4 PFK	42.59	8.052e2					0.4	NO		bb		
13	FUNCTION4 PFK	42.45	5.881e3					1.2	NO		bb		
14	FUNCTION4 PFK	42.41	9.222e2					0.4	NO		bb		
15	FUNCTION4 PFK	42.36	9.165e2					0.4	NO		bb		
16	FUNCTION4 PFK	42.24	1.247e4					1.5	NO		bb		
17	FUNCTION4 PFK	41.93	1.665e4					1.6	NO		bb		
18	FUNCTION4 PFK	41.83	1.719e4					2.0	NO		bb		
19	FUNCTION4 PFK	41.12	5.842e3					1.0	NO		bb		
20	FUNCTION4 PFK	41.07	8.989e3					1.5	NO		bb		
21	FUNCTION4 PFK	40.97	7.002e3					1.0	NO		bb		
22	FUNCTION4 PFK	40.80	3.352e4					2.2	NO		bb		
23	FUNCTION4 PFK	40.65	5.543e3					1.1	NO		bb		
24	FUNCTION4 PFK	40.46	4.406e3					1.1	NO		bb		
25	FUNCTION4 PFK	40.24	9.305e2					0.4	NO		bb		
26	FUNCTION4 PFK	40.07	1.948e3					0.5	NO		bb		
27	FUNCTION4 PFK	39.83	2.378e3					0.6	NO		bb		

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.09	5.045e2					0.4	NO		bb		
2	FUNCTION5 PFK	44.84	4.671e2					0.4	NO		bb		
3	FUNCTION5 PFK	44.58	2.437e3					0.7	NO		bb		
4	FUNCTION5 PFK	44.33	9.595e3					1.8	NO		bb		
5	FUNCTION5 PFK	44.27	2.289e3					1.1	NO		bb		
6	FUNCTION5 PFK	44.02	2.422e3					1.3	NO		bb		
7	FUNCTION5 PFK	43.85	3.226e3					1.1	NO		bb		
8	FUNCTION5 PFK	43.65	1.748e3					0.7	NO		bb		
9	FUNCTION5 PFK	43.49	5.268e2					0.5	NO		bb		
10	FUNCTION5 PFK	43.39	6.395e2					0.6	NO		bb		
11	FUNCTION5 PFK	43.28	3.244e3					1.3	NO		bb		
12	FUNCTION5 PFK	43.20	3.834e3					1.4	NO		bb		
13	FUNCTION5 PFK	43.14	7.527e3					1.9	NO		db		
14	FUNCTION5 PFK	43.11	2.570e3					1.5	NO		bd		
15	FUNCTION5 PFK	43.07	1.059e3					0.9	NO		bb		
16	FUNCTION5 PFK	45.42	3.613e3					1.0	NO		bb		
17	FUNCTION5 PFK	45.30	5.569e3					1.4	NO		bb		
18	FUNCTION5 PFK	45.18	3.585e3					1.2	NO		db		
19	FUNCTION5 PFK	45.14	2.305e3					0.8	NO		bd		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.46	1.607e2					3.6	YES		bb		0.000
2	FUNCTION1 HXCD...	25.29	8.981e1					2.1	NO		bb		0.000
3	FUNCTION1 HXCD...	24.86	7.117e1					2.0	NO		bb		0.000
4	FUNCTION1 HXCD...	24.49	1.071e2					5.8	YES		bb		0.000
5	FUNCTION1 HXCD...	21.57	9.432e1					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													

Quantify Totals Report MassLynx MassLynx V4.1 SCN909

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld

Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time

Printed: Tuesday, August 01, 2023 08:22:08 Pacific Daylight Time

ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk**ETHERS3**

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.17	7.813e1					2.2	NO		bb		0.000
2	FUNCTION2 HPCD...	31.15	1.747e2					2.7	NO		bb		0.000
3	FUNCTION2 HPCD...	30.81	2.316e2					5.7	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	32.82	8.780e1					1.6	NO		bb		0.000
2	FUNCTION3 OCDPE	37.05	7.686e1					1.6	NO		bb		0.000
3	FUNCTION3 OCDPE	36.65	9.785e1					2.1	NO		bb		0.000
4	FUNCTION3 OCDPE	36.22	1.531e2					2.6	NO		bb		0.000
5	FUNCTION3 OCDPE	35.58	1.062e2					1.9	NO		bb		0.000
6	FUNCTION3 OCDPE	34.74	9.879e1					2.4	NO		bb		0.000
7	FUNCTION3 OCDPE	33.94	7.912e1					2.8	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.90	1.112e2					2.2	NO		bb		0.000
2	FUNCTION4 NCDPE	38.97	1.388e2					2.1	NO		bb		0.000
3	FUNCTION4 NCDPE	38.17	7.493e1					1.1	NO		bb		0.000

ETHERS6

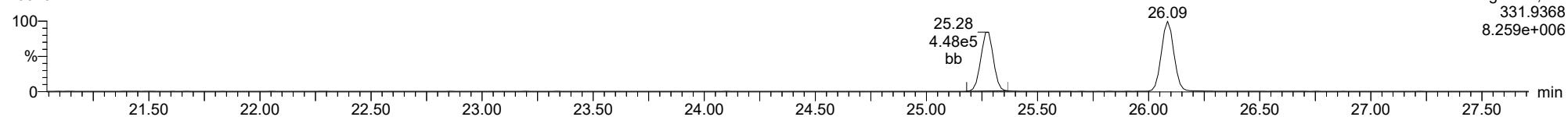
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.28	8.636e1					2.3	NO		bb		0.000

Method: T:\Autospec\Methods\Dioxin230731.mdb 31 Jul 2023 22:16:29
Calibration: T:\Autospec\Curves\230713ICIH.cdb 27 Jul 2023 11:25:35

ID: CS3C2, **Name:** 23073112, **Date:** 31-Jul-2023, **Time:** 21:08:39, **Conditions:** AUTOSPEC01, **User:** pk

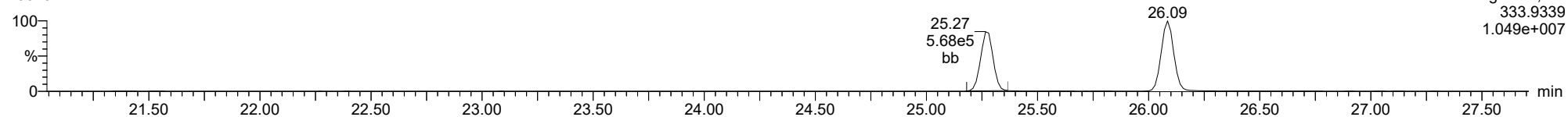
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23073112



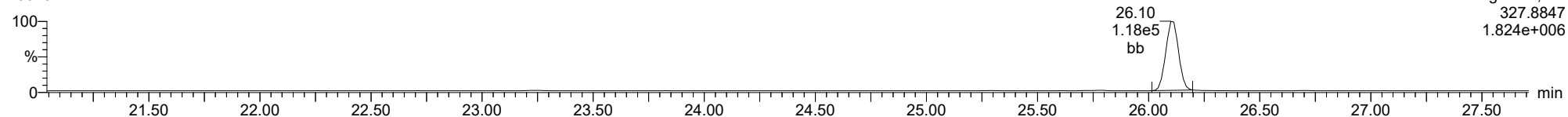
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23073112



37CL-2378-TCDD

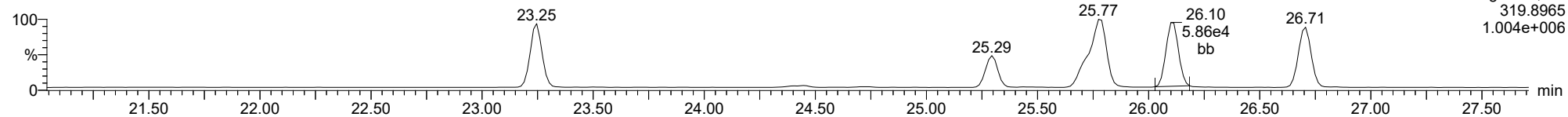
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

2378-TCDD

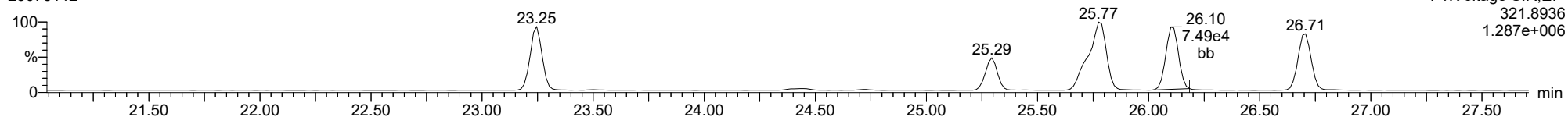
23073112



F1:Voltage SIR,EI+
319.8965
1.004e+006

2378-TCDD

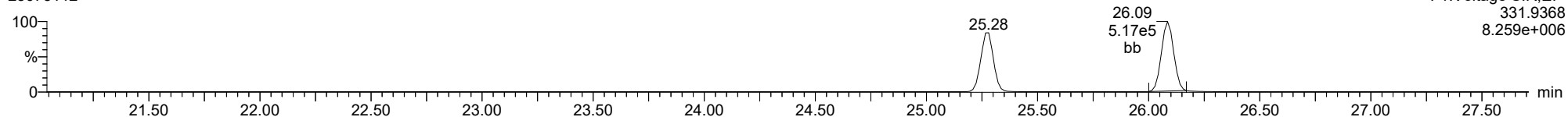
23073112



F1:Voltage SIR,EI+
321.8936
1.287e+006

13C-2378-TCDD

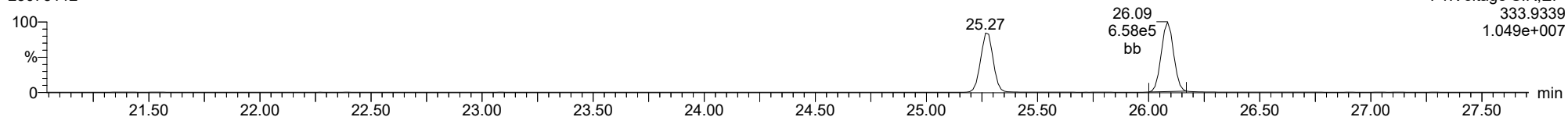
23073112



F1:Voltage SIR,EI+
331.9368
8.259e+006

13C-2378-TCDD

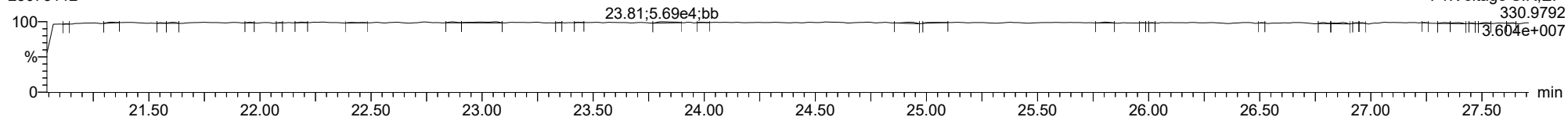
23073112



F1:Voltage SIR,EI+
333.9339
1.049e+007

FUNCTION1 PFK

23073112

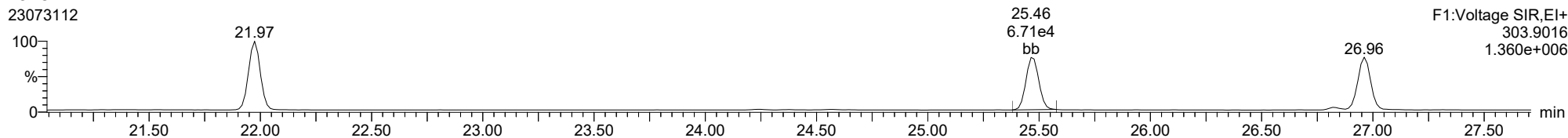


F1:Voltage SIR,EI+
330.9792
3.604e+007

ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

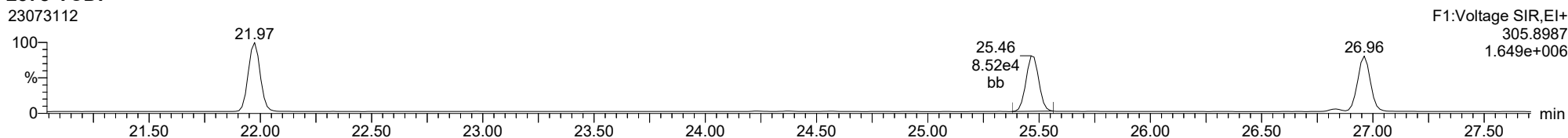
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23073112



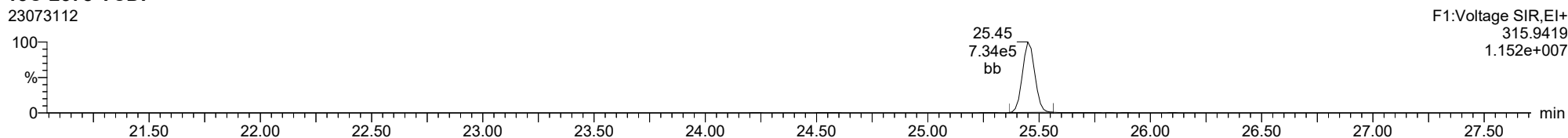
2378-TCDF

23073112



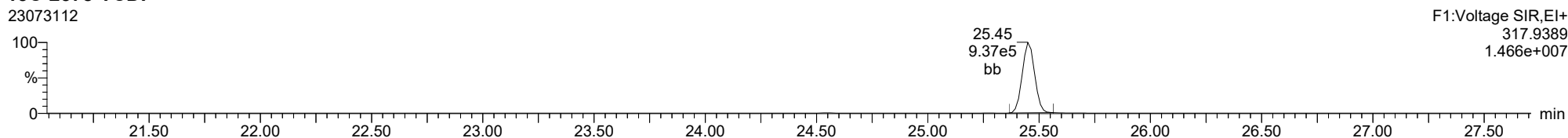
13C-2378-TCDF

23073112



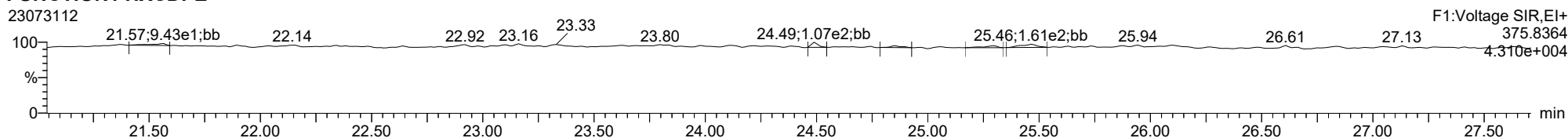
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23073112



FUNCTION1 HXCDFE

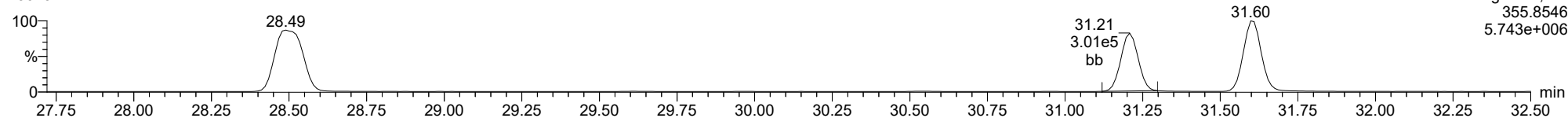
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

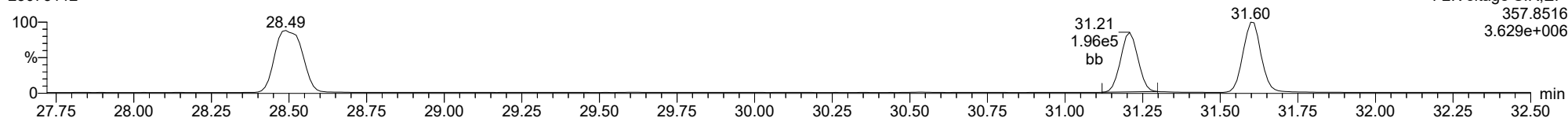
12378-PeCDD

23073112



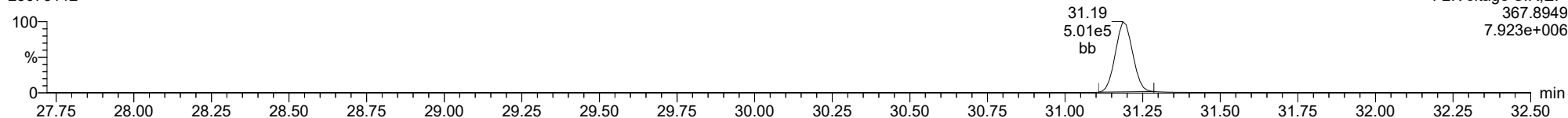
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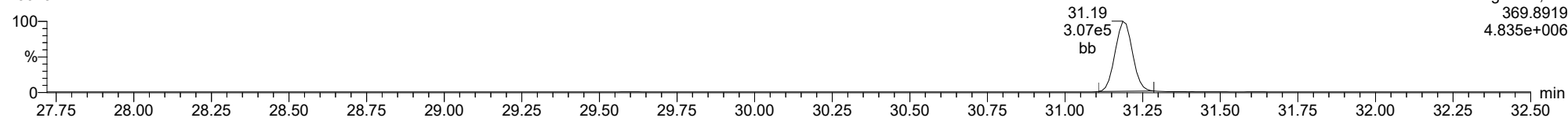
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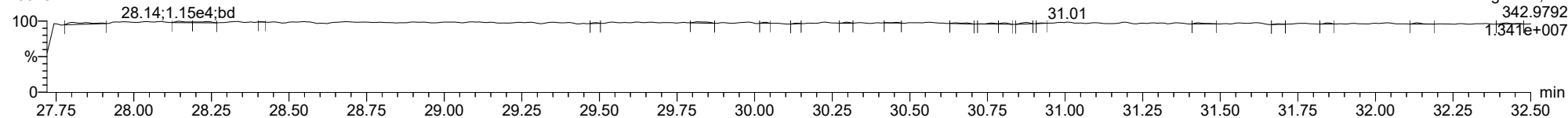
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FUNCTION2 PFK

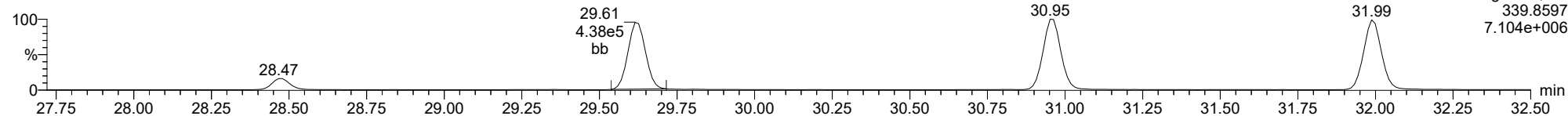
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

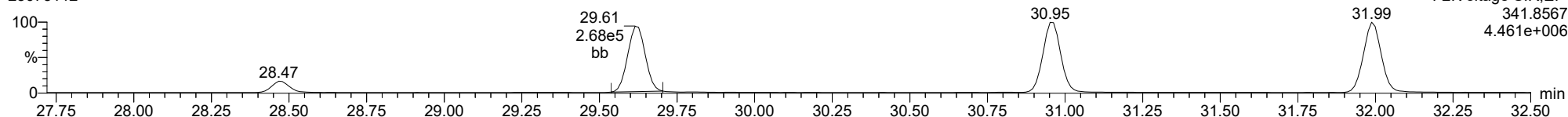
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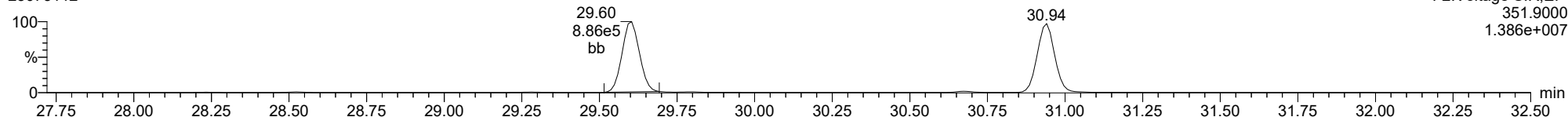
12378-PeCDF

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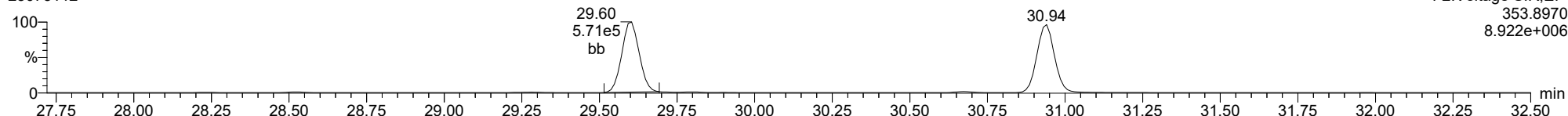
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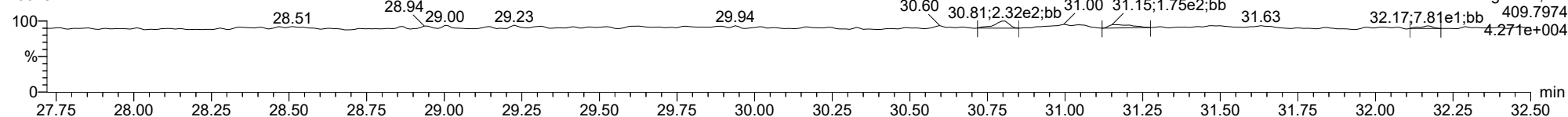
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FUNCTION2 HPCDPE

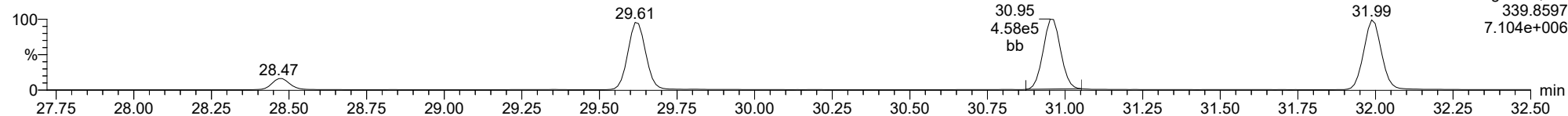
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

23478-PeCDF

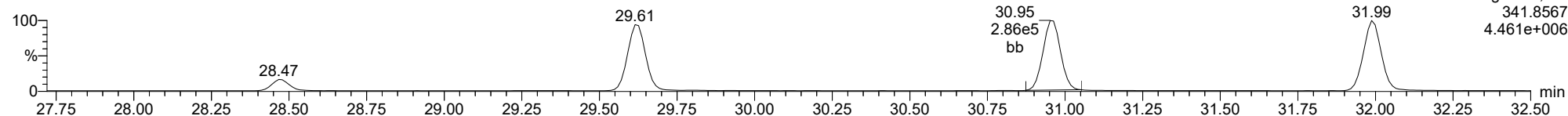
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F2:Voltage SIR,EI+
339.8597
7.104e+006

23478-PeCDF

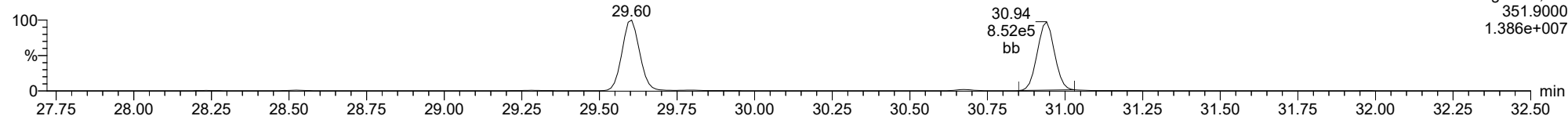
23073112



F2:Voltage SIR,EI+
341.8567
4.461e+006

13C-23478-PeCDF

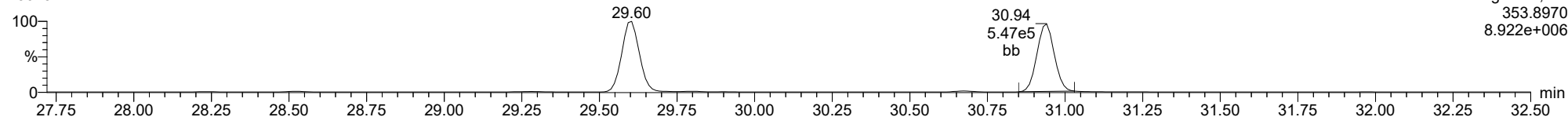
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F2:Voltage SIR,EI+
351.9000
1.386e+007

13C-23478-PeCDF

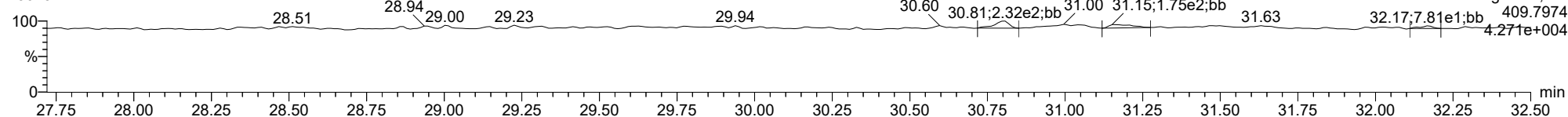
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F2:Voltage SIR,EI+
353.8970
8.922e+006

FUNCTION2 HPCDPE

23073112

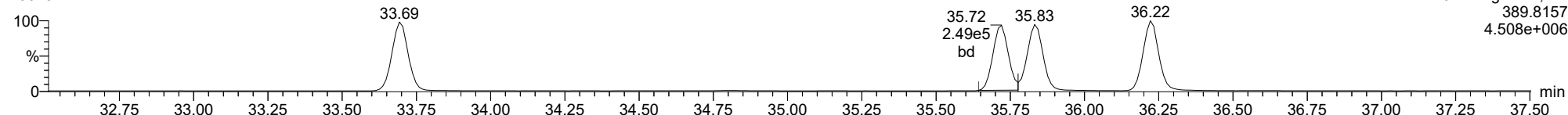


F2:Voltage SIR,EI+
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4.271e+004

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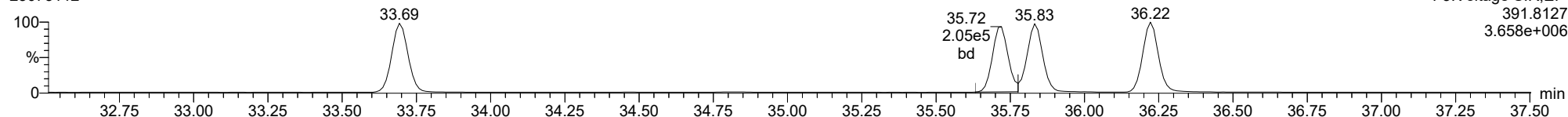
123478-HxCDD

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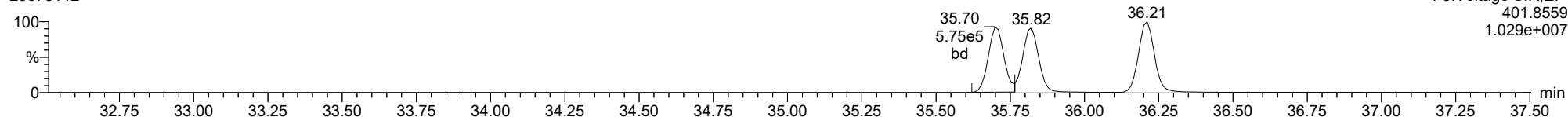
123478-HxCDD

23073112



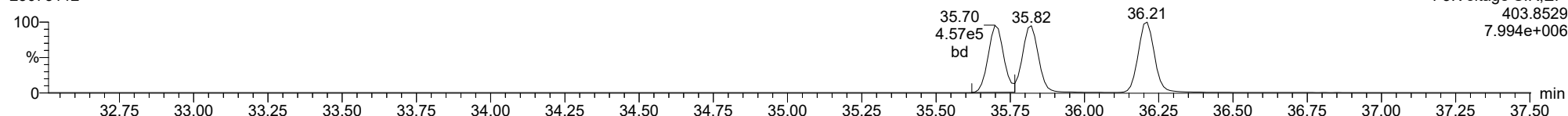
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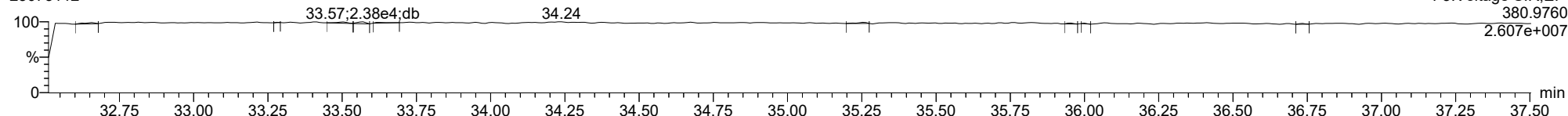
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FUNCTION3 PFK

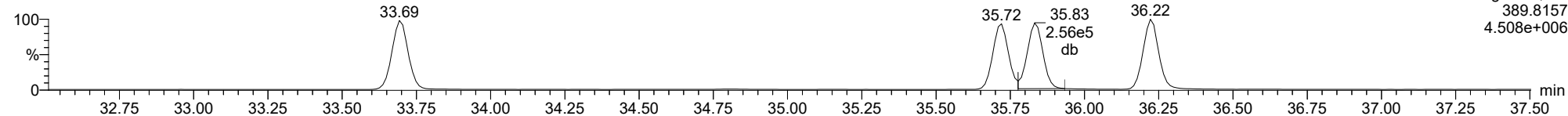
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

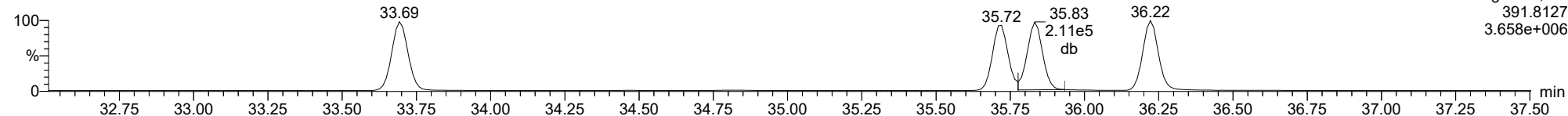
123678-HxCDD

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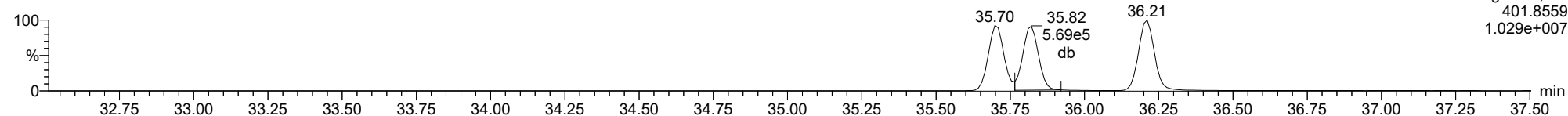
123678-HxCDD

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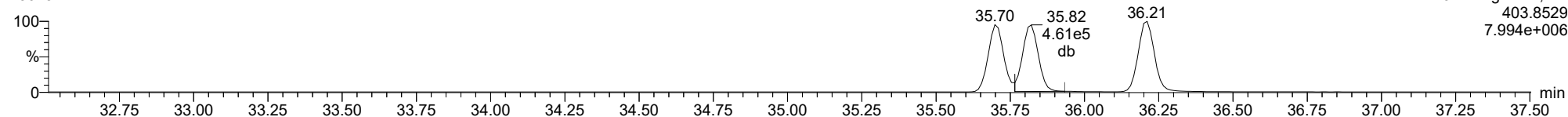
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13C-123678-HxCDD

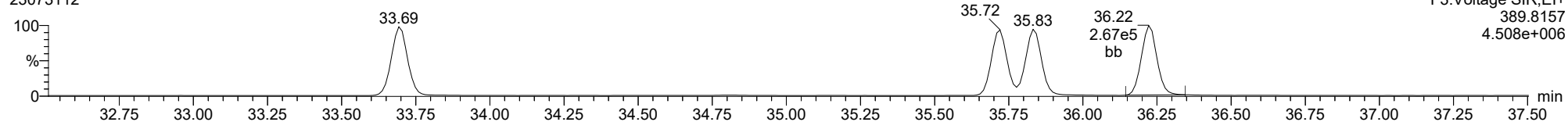
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

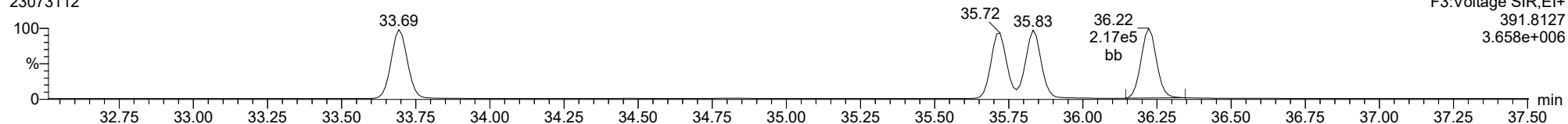
123789-HxCDD

23073112



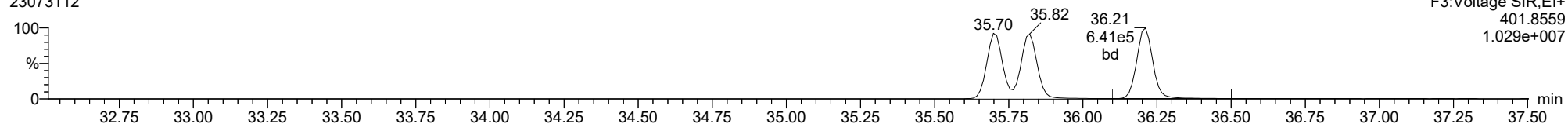
123789-HxCDD

23073112



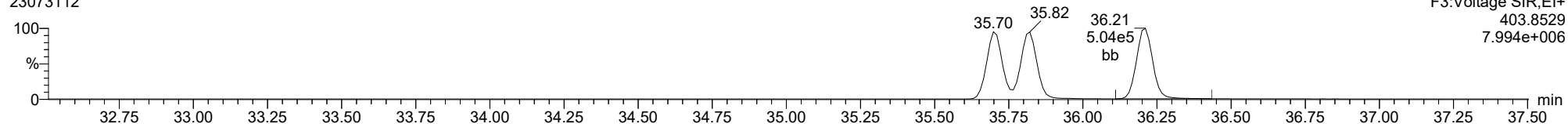
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13C-123789-HxCDD

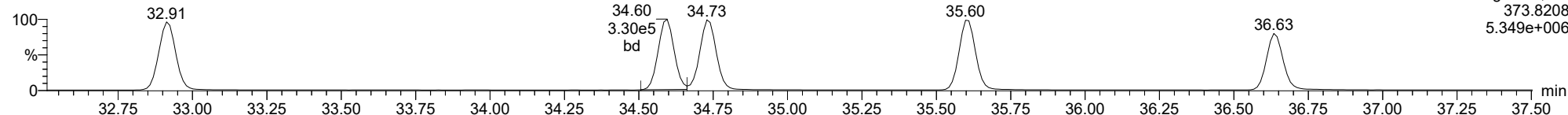
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

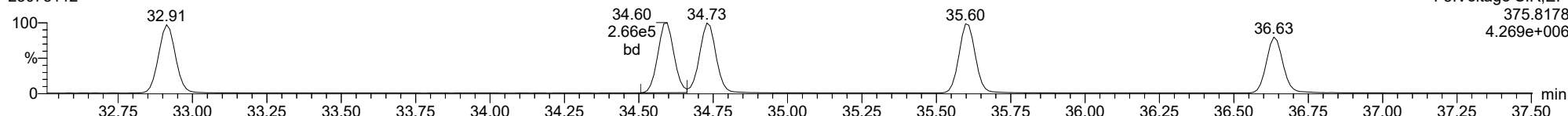
123478-HxCDF

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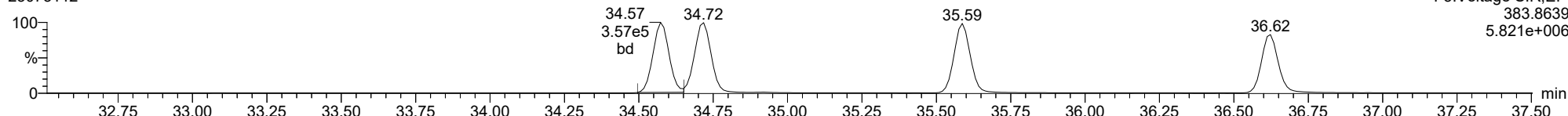
123478-HxCDF

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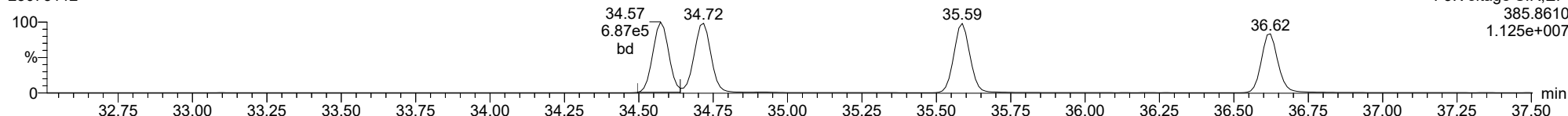
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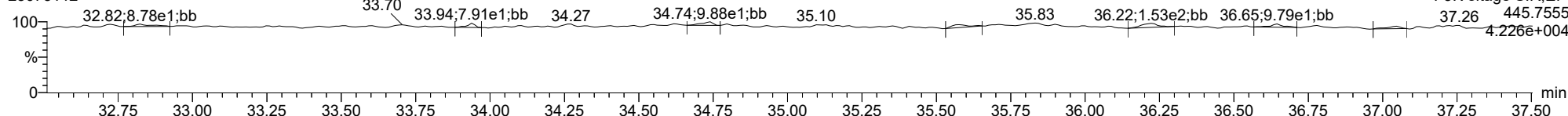
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FUNCTION3 OCDPE

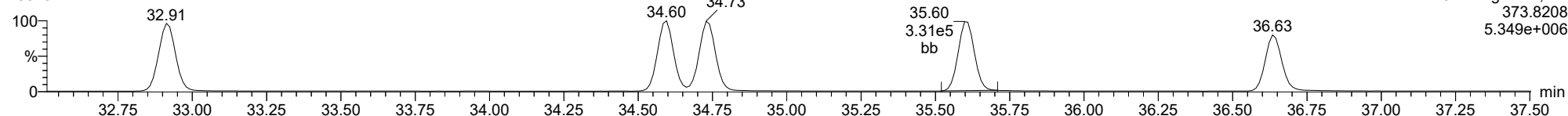
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

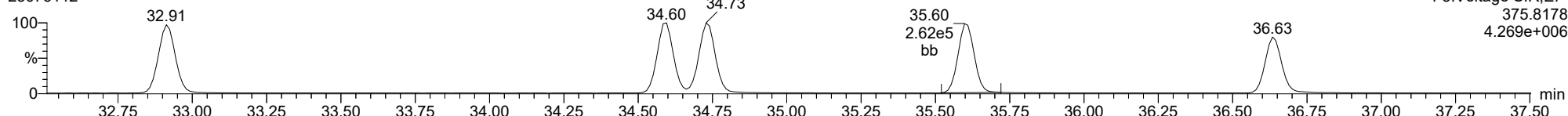
234678-HxCDF

23073112



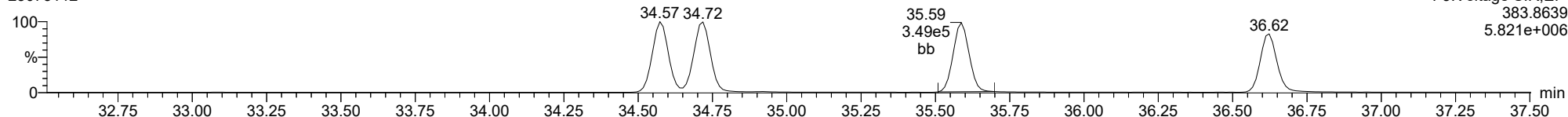
234678-HxCDF

23073112



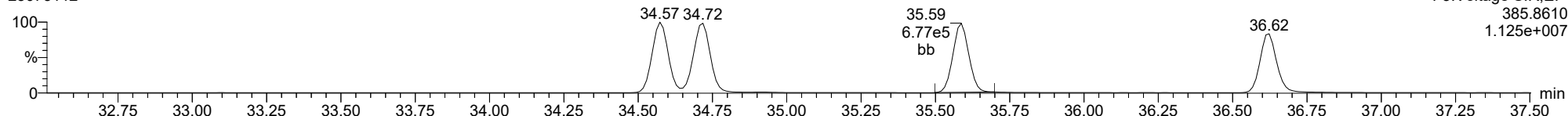
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23073112



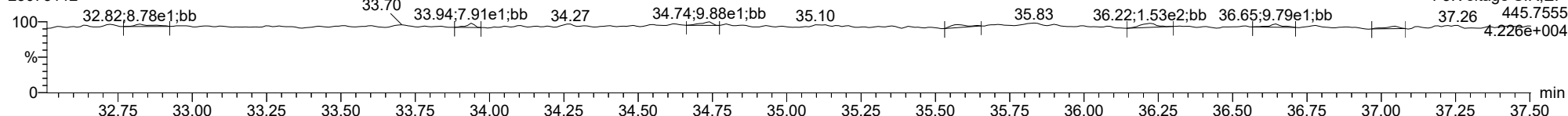
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FUNCTION3 OCDPE

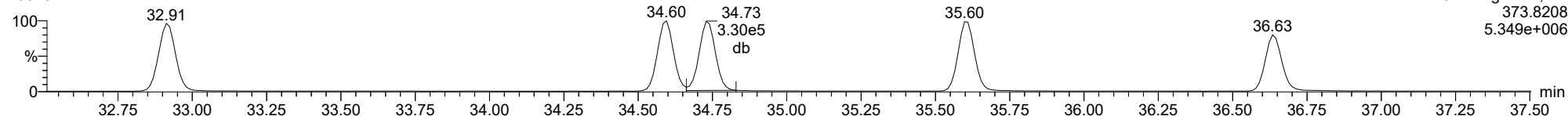
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

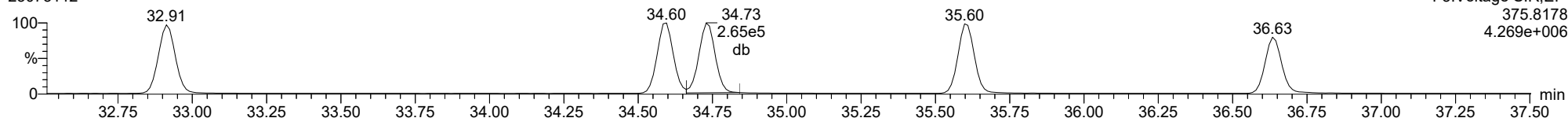
123678-HxCDF

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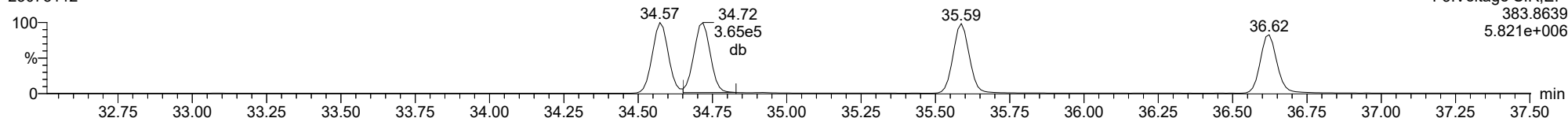
123678-HxCDF

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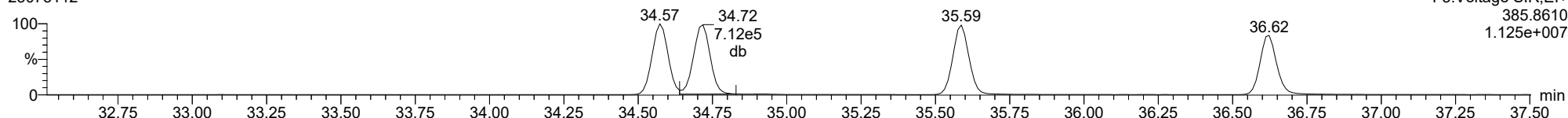
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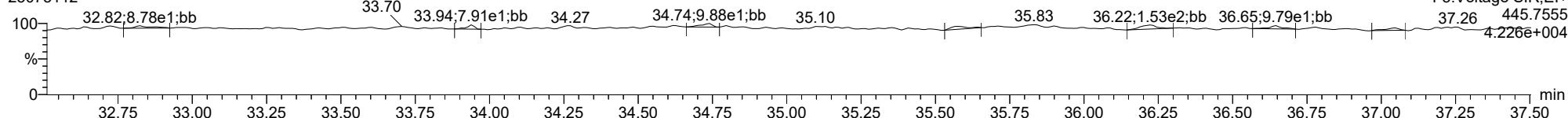
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FUNCTION3 OCDPE

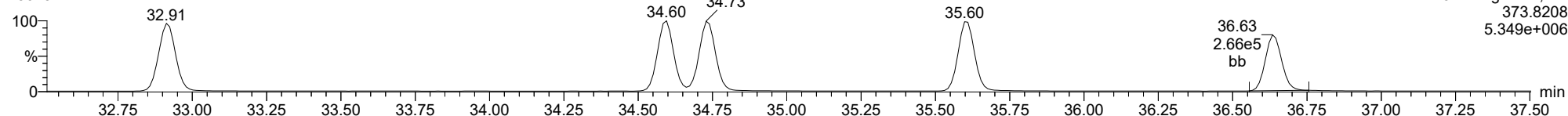
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

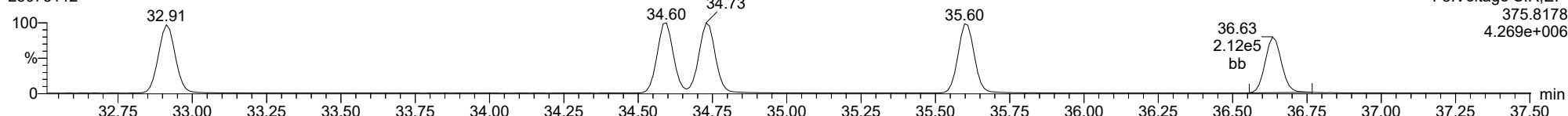
123789-HxCDF

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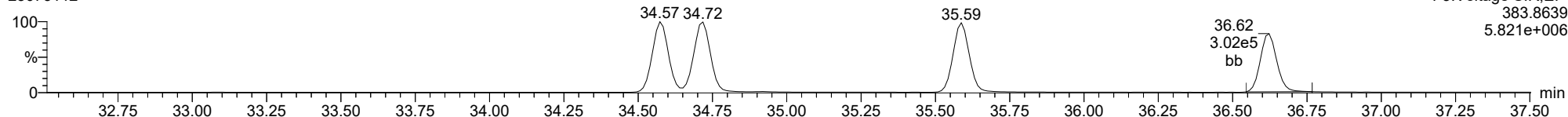
123789-HxCDF

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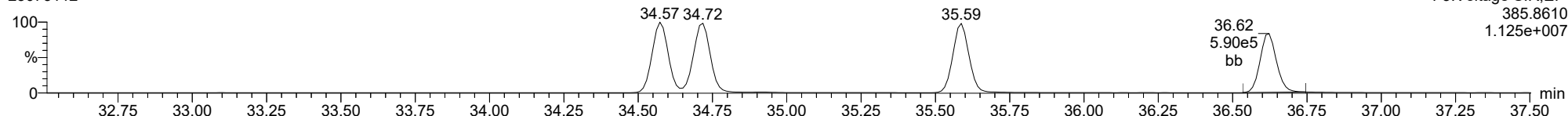
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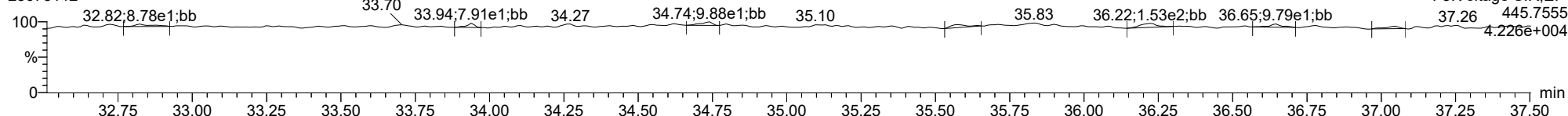
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FUNCTION3 OCDPE

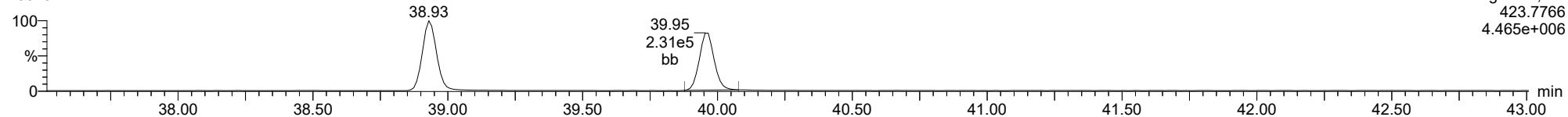
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

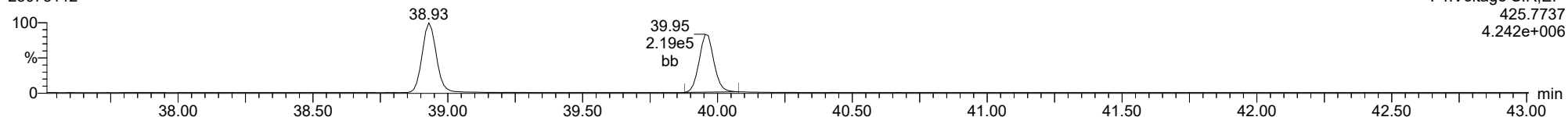
1234678-HpCDD

23073112



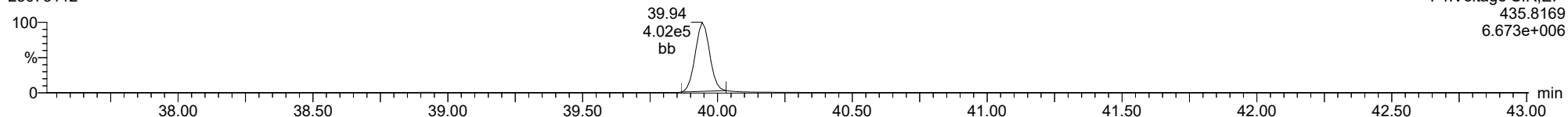
1234678-HpCDD

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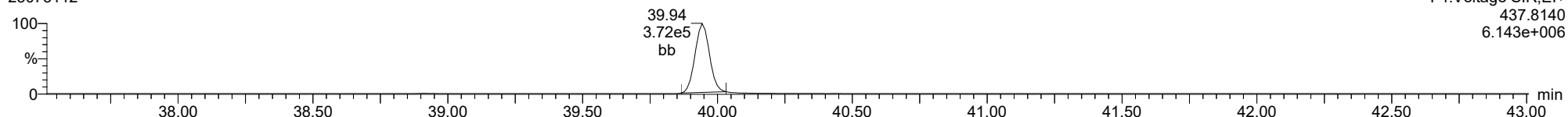
13C-1234678-HpCDD

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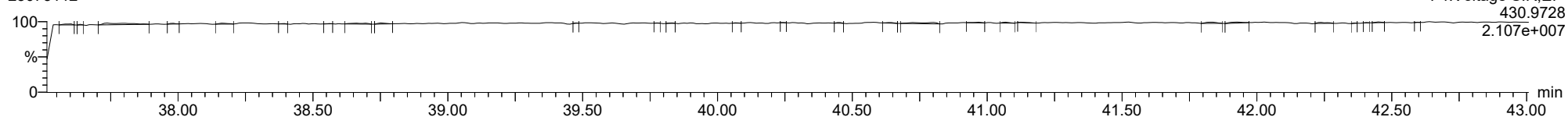
13C-1234678-HpCDD

23073112



FUNCTION4 PFK

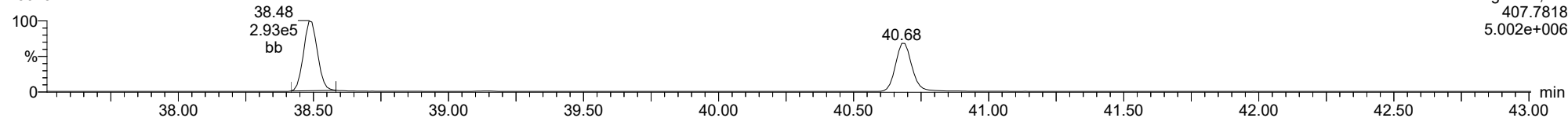
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

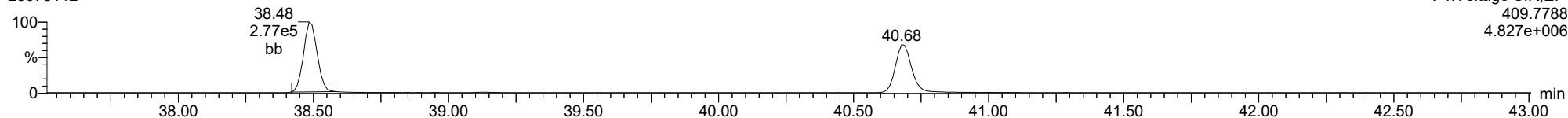
1234678-HpCDF

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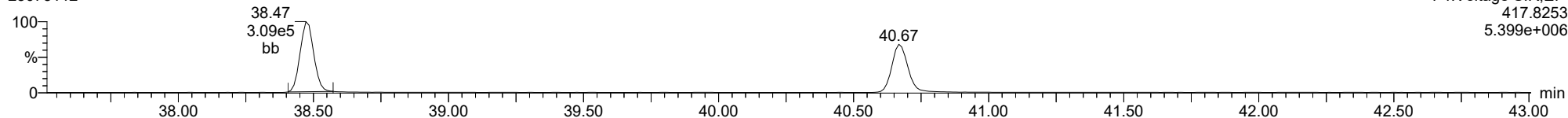
1234678-HpCDF

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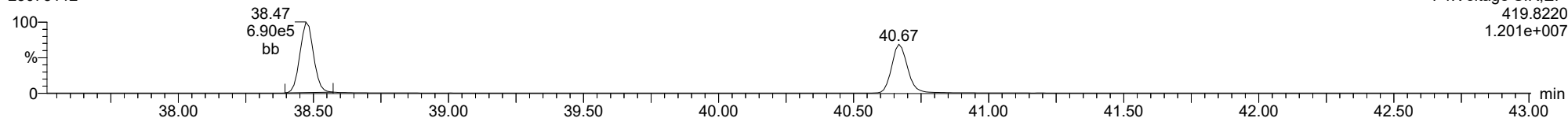
13C-1234678-HpCDF

23073112



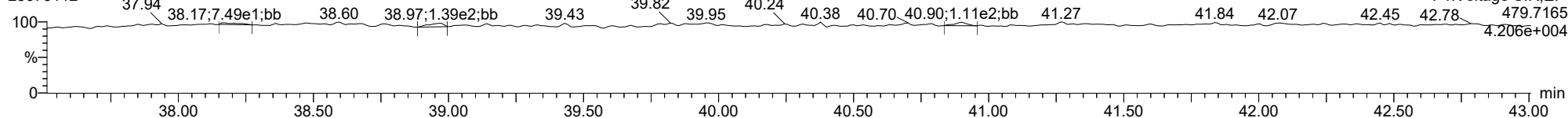
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23073112



FUNCTION4 NCDPE

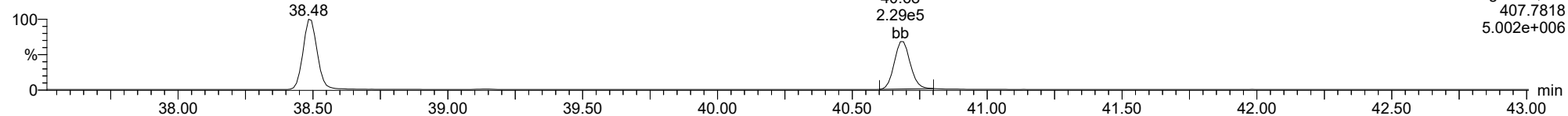
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

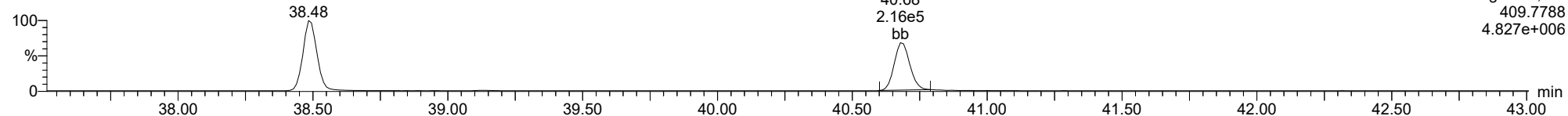
1234789-HpCDF

23073112



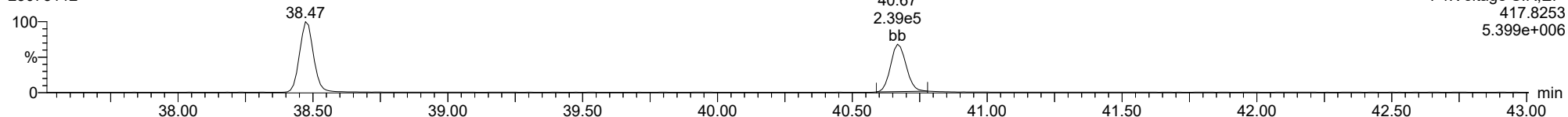
1234789-HpCDF

23073112



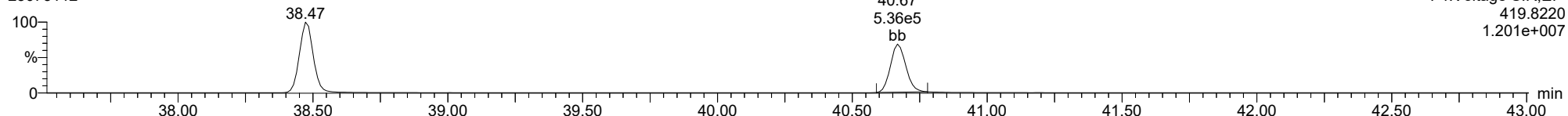
13C-1234789-HpCDF

23073112



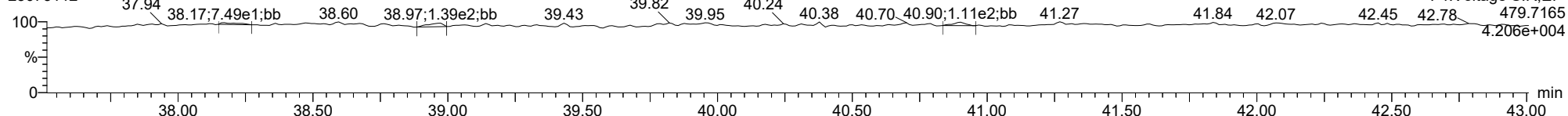
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FUNCTION4 NCDPE

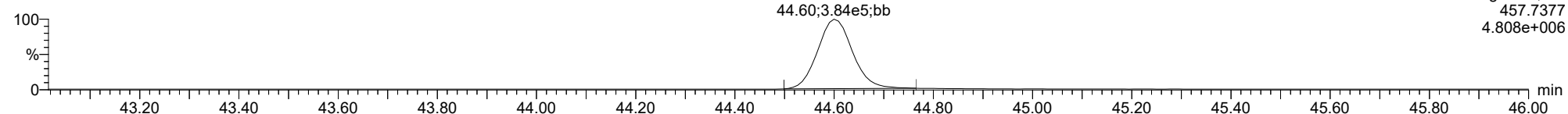
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

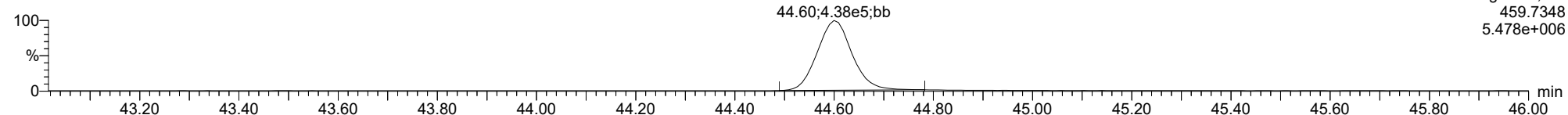
OCDD

23073112



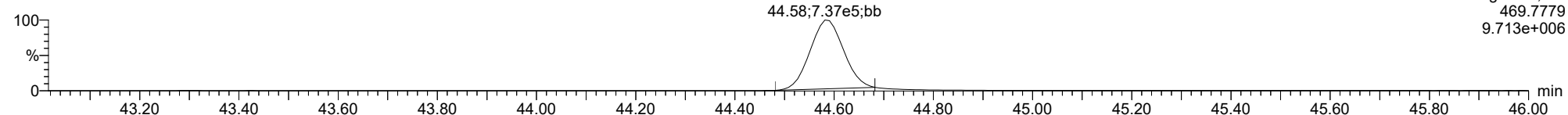
OCDD

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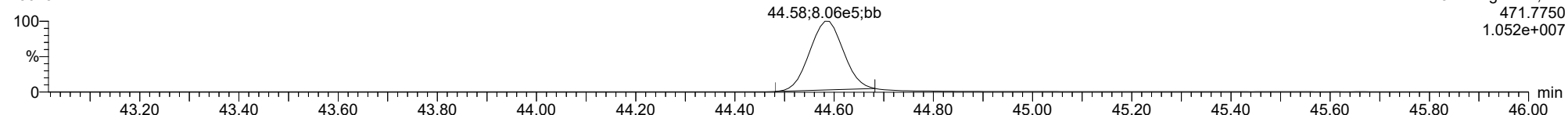
13C-OCDD

23073112



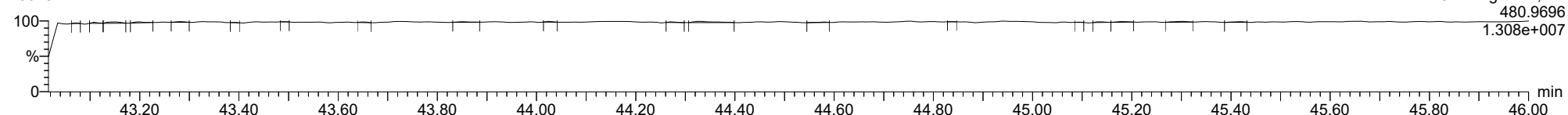
13C-OCDD

23073112



FUNCTION5 PFK

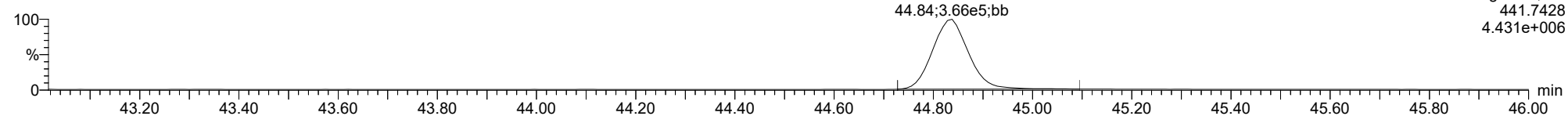
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ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

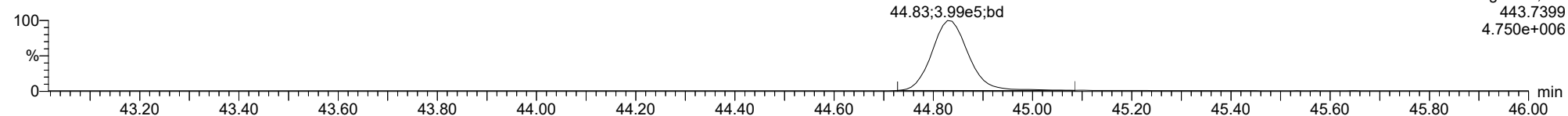
OCDF

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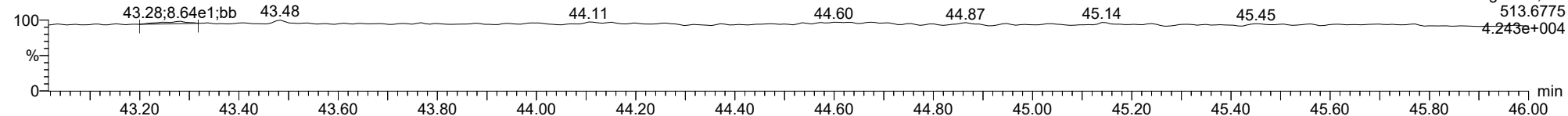
OCDF

23073112



FUNCTION5 DCDPE

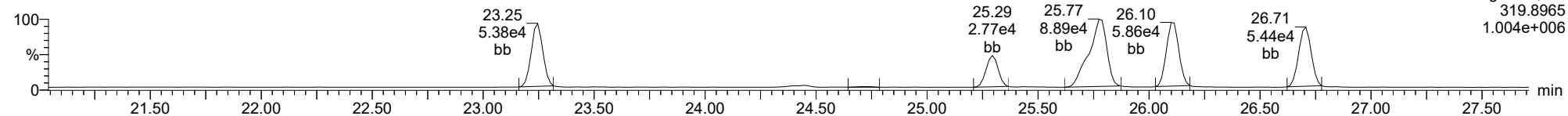
23073112



ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

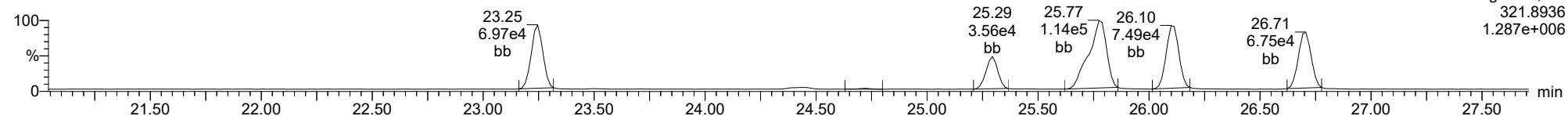
Total-tetradioxins

23073112



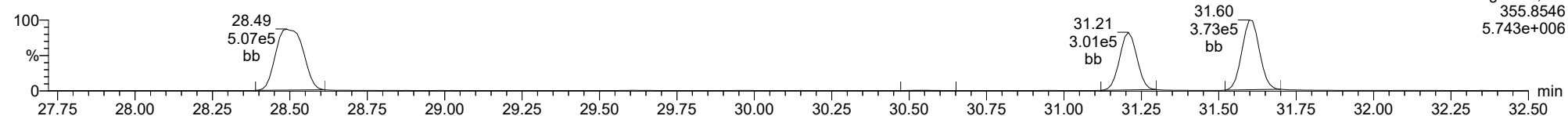
Total-tetradioxins

23073112



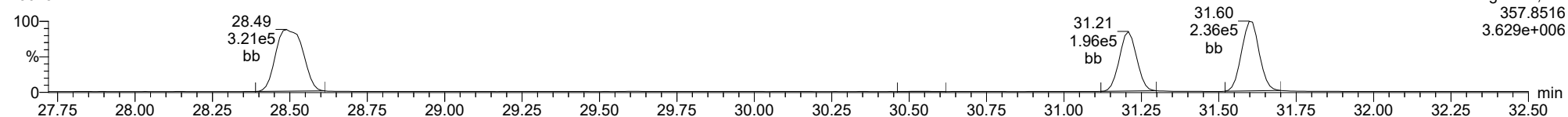
Total-pentadioxins

23073112



Total-pentadioxins

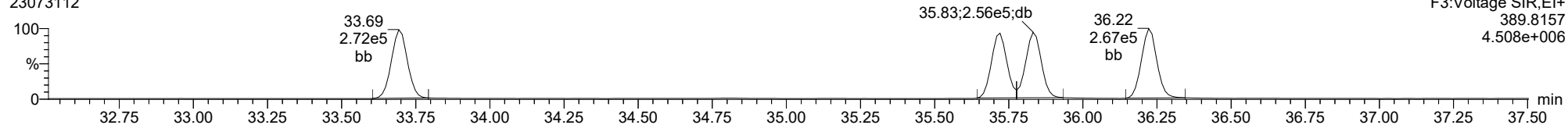
23073112



ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

Total-hexadioxins

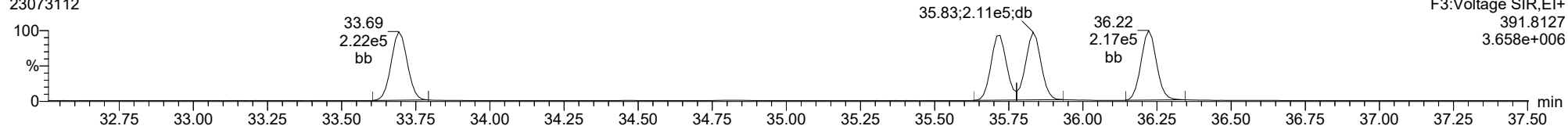
23073112



F3:Voltage SIR,EI+
389.8157
4.508e+006

Total-hexadioxins

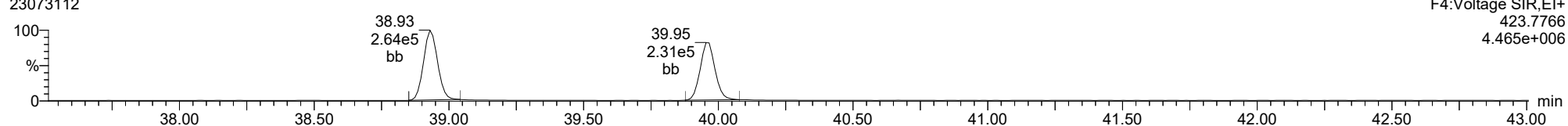
23073112



F3:Voltage SIR,EI+
391.8127
3.658e+006

Total-heptadioxins

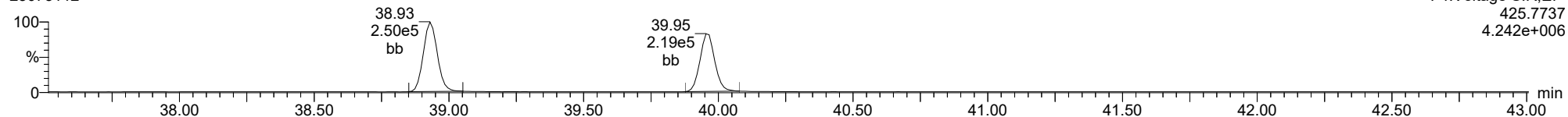
23073112



F4:Voltage SIR,EI+
423.7766
4.465e+006

Total-heptadioxins

23073112

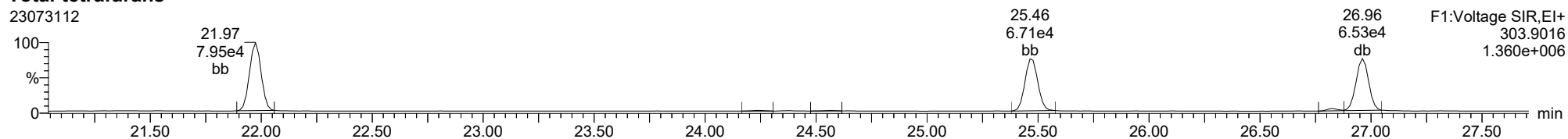


F4:Voltage SIR,EI+
425.7737
4.242e+006

ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

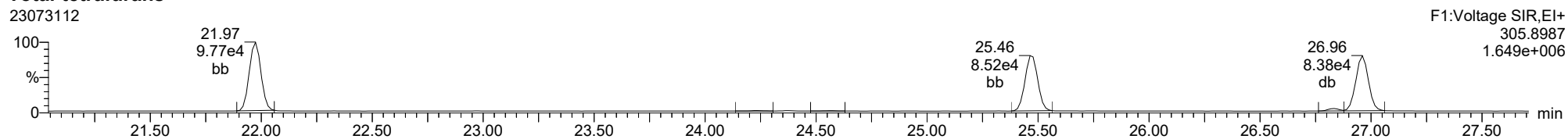
Total-tetrafurans

23073112



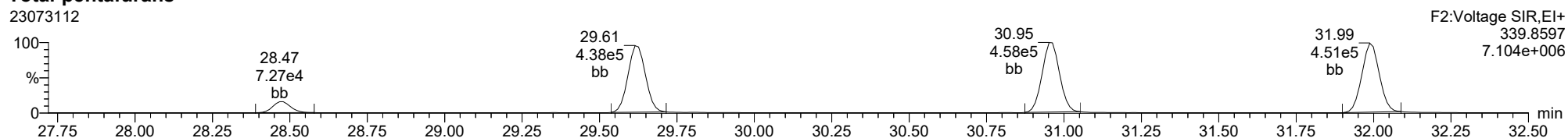
Total-tetrafurans

23073112



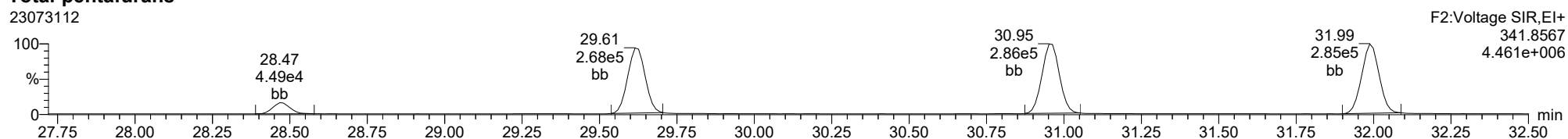
Total-pentafurans

23073112



Total-pentafurans

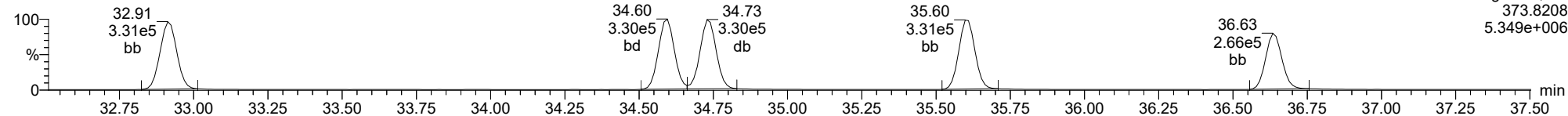
23073112



ID: CS3C2, Name: 23073112, Date: 31-Jul-2023, Time: 21:08:39, Conditions: AUTOSPEC01, User: pk

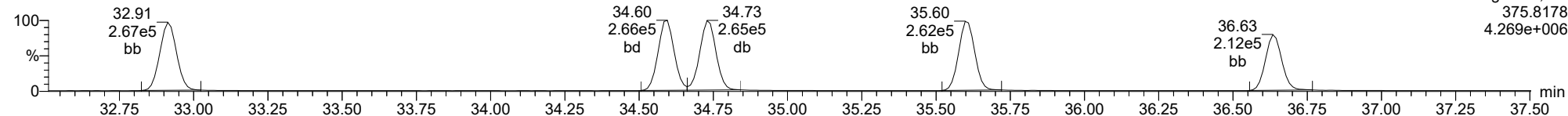
Total-hexafurans

23073112



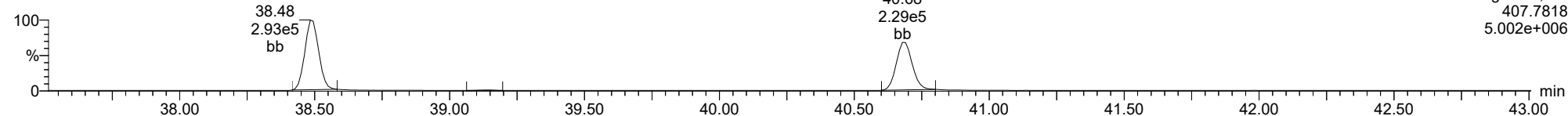
Total-hexafurans

23073112



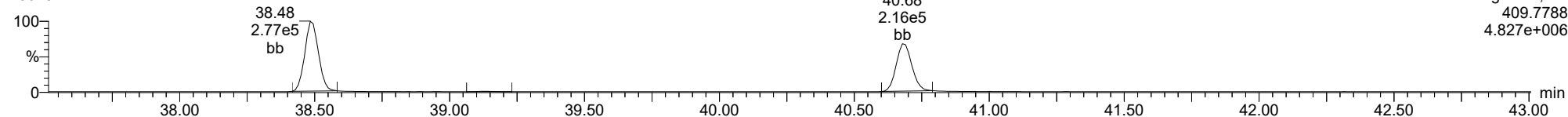
Total-heptafurans

23073112

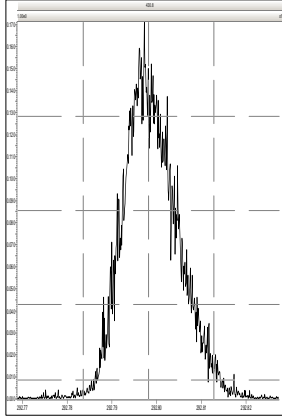


Total-heptafurans

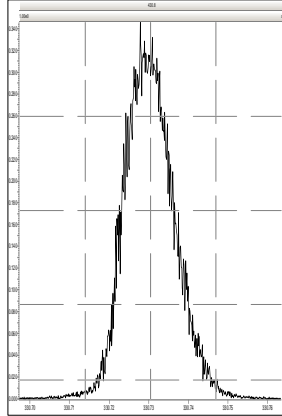
23073112



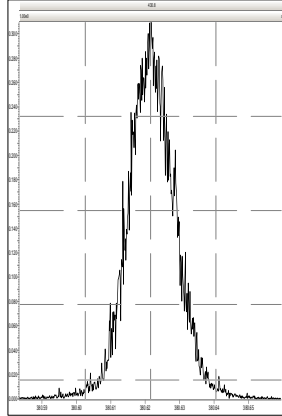
M 292.9824 R 10642



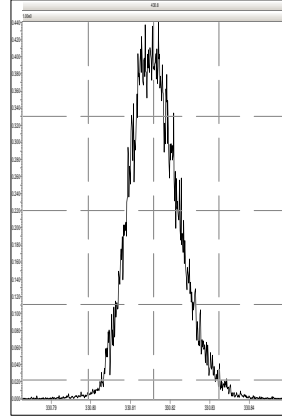
M 330.9792 R 12146



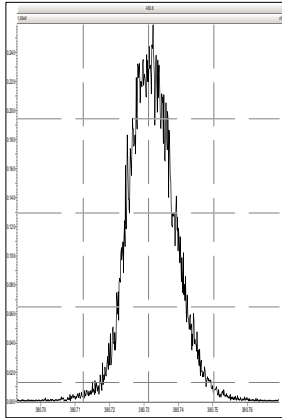
M 380.9760 R 12339



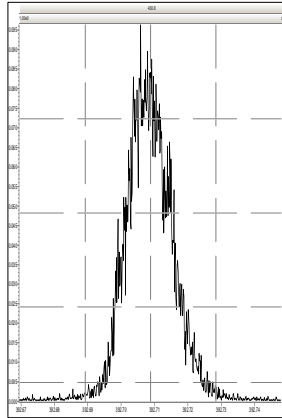
M 330.9792 R 11389



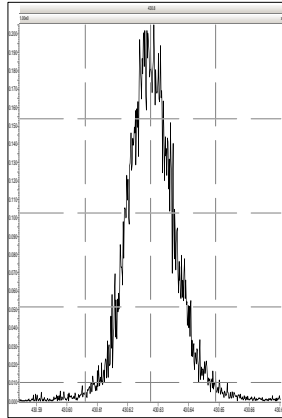
M 380.9760 R 12440



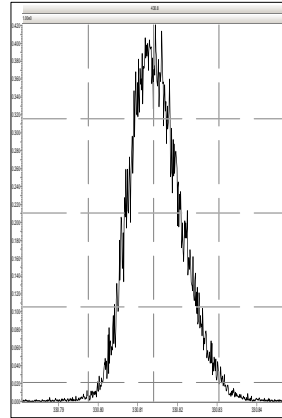
M 392.9760 R 13134



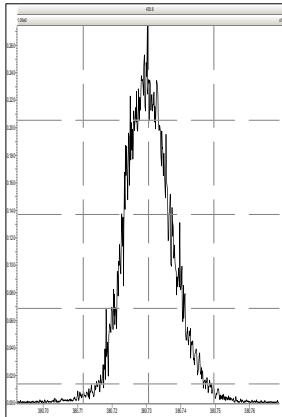
M 430.9728 R 12301



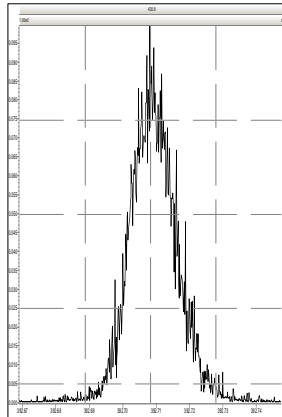
M 330.9792 R 11069



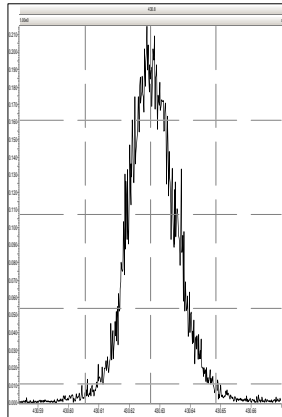
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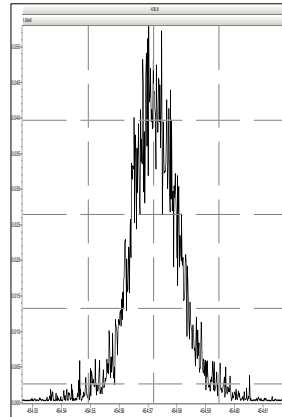
M 392.9760 R 12965



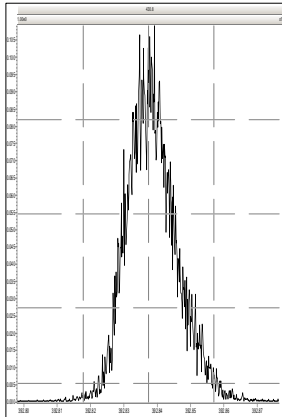
M 430.9728 R 11973



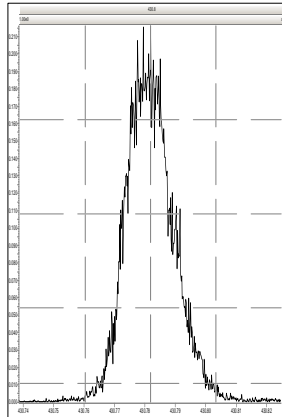
M 454.9728 R 13091



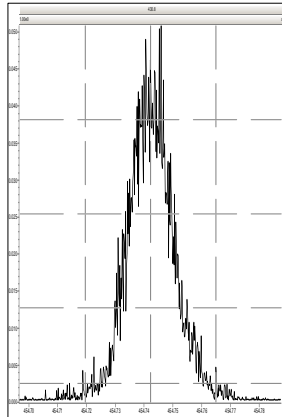
M 392.9760 R 11801



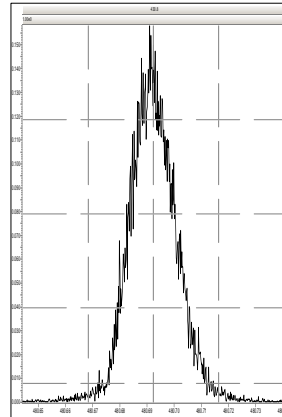
M 430.9728 R 12507



M 454.9728 R 13024

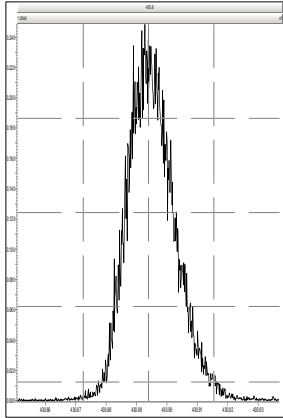


M 480.9696 R 12763

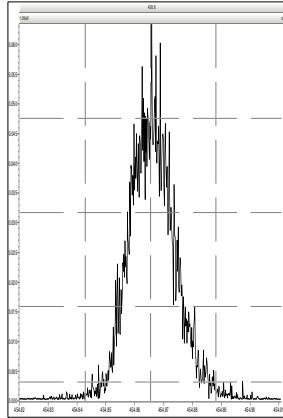


Printed: Monday, July 31, 2023 22:01:42 Pacific Daylight Time

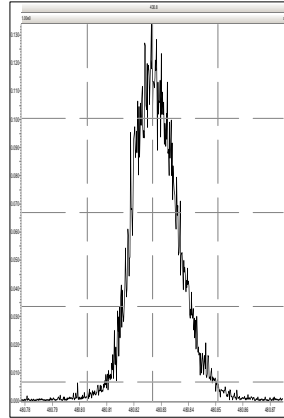
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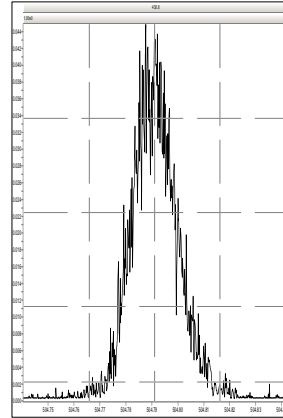
M 454.9728 R 12658



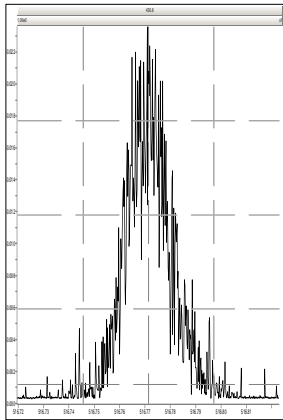
M 480.9696 R 12540



M 504.9696 R 13499



M 516.9697 R 13635

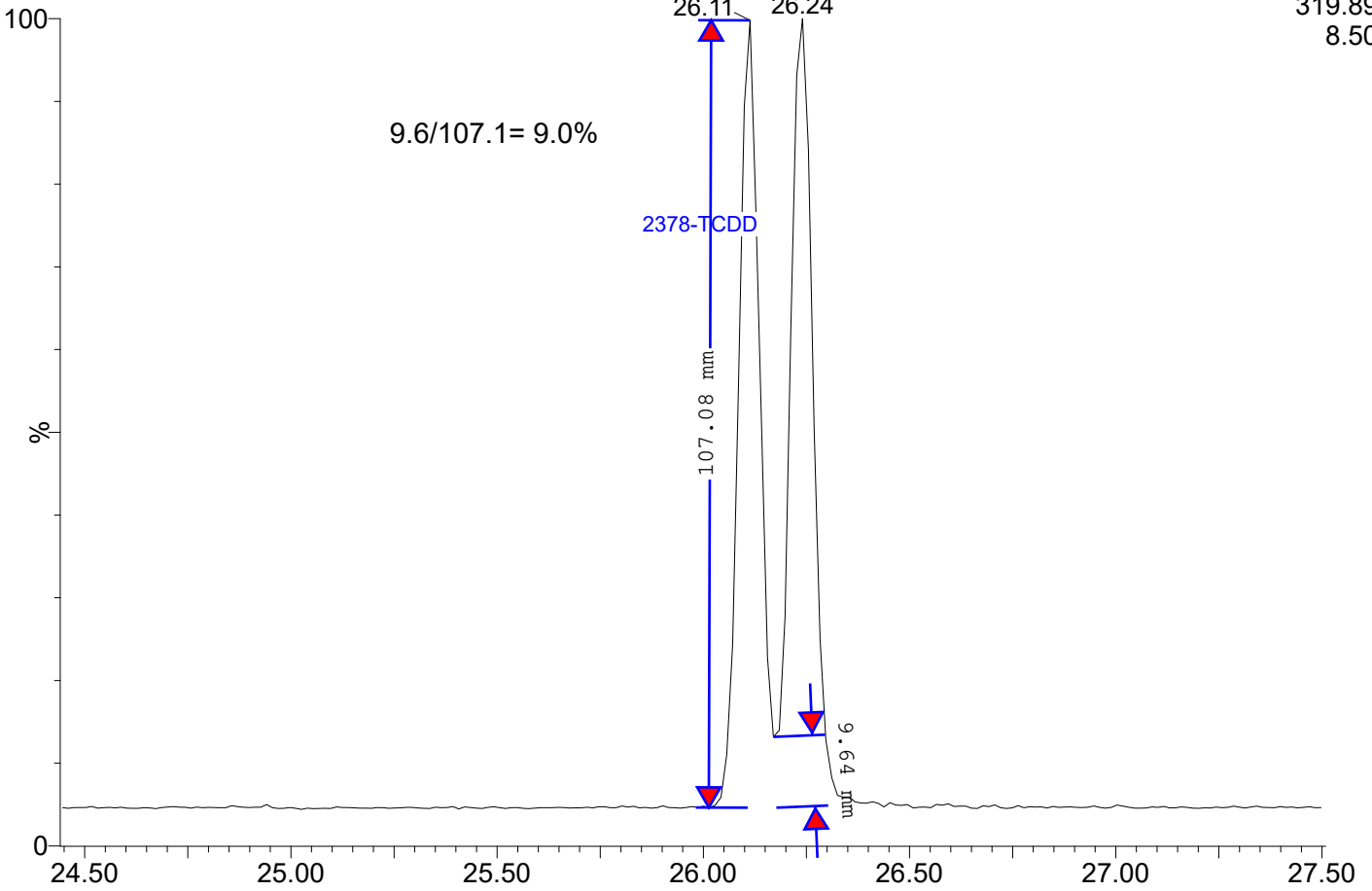


23073113

1: Voltage SIR 14 Channels EI+

319.8965

8.50e5

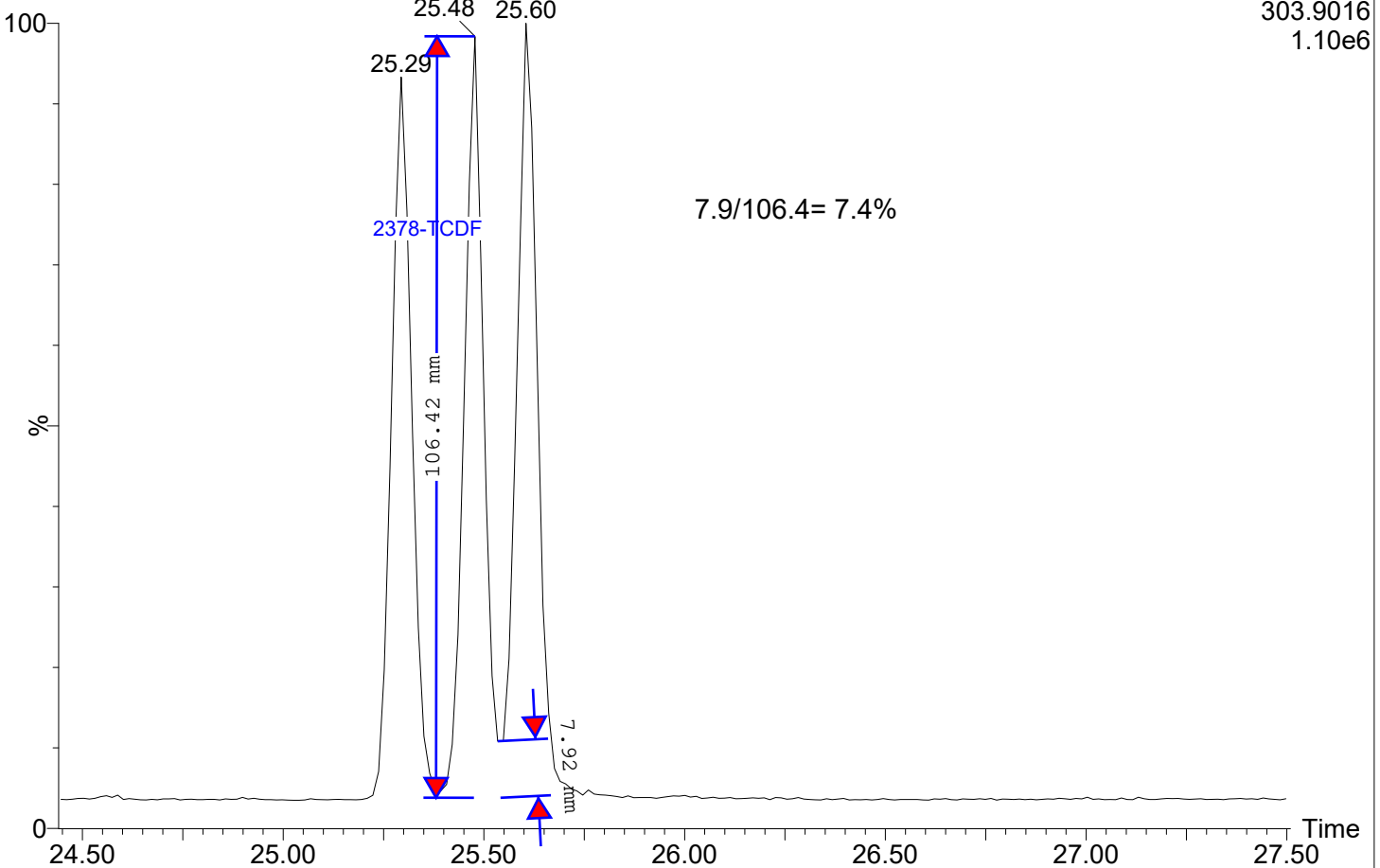


23073113

1: Voltage SIR 14 Channels EI+

303.9016

1.10e6





**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, LLC SDG: 23F0143
 Instrument .ID: AUTOSPEC01 Lab File ID: 23071303
 Date Analyzed: 07/13/23 Time Analyzed: 11:13
 Lab Sample ID: SLG0149-RES1 Sequence: SLG0149

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 13.9

3467-TCDF/2378-TCDF: 13.2

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLG0149-ICV1	CS3A1	23071302	07/13/2023	10:17
SLG0149-RES1	ISCA1	23071303	07/13/2023	11:13
SLG0149-CAL1	CSLCA	23071304	07/13/2023	12:03
SLG0149-CAL2	CS1CA	23071305	07/13/2023	12:53
SLG0149-CAL3	CS2CA	23071306	07/13/2023	14:50
SLG0149-CAL4	CS3CA	23071307	07/13/2023	15:45
SLG0149-CAL5	CS4CA	23071308	07/13/2023	16:32
SLG0149-CAL6	CS5CA	23071309	07/13/2023	17:21
SLG0149-SCV1	ICVCA	23071310	07/13/2023	18:10
SLG0149-CCV1	CS3A2	23071311	07/13/2023	18:58
SLG0149-RES2	CS3A2	23071312	07/13/2023	19:51



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, LLC SDG: 23F0143
 Instrument .ID: AUTOSPEC01 Lab File ID: 23073103
 Date Analyzed: 07/31/23 Time Analyzed: 13:42
 Lab Sample ID: SLG0303-RES1 Sequence: SLG0303

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 11.9

3467-TCDF/2378-TCDF: 10.7

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLG0303-ICV1	CS3C1	23073102	07/31/2023	12:51
SLG0303-RES1	ISCC1	23073103	07/31/2023	13:42
BLF0318-BLK2	BLANK	23073104	07/31/2023	14:37
BLF0318-BS2	LCS	23073105	07/31/2023	15:25
BLF0318-SRM1	Reference	23073106	07/31/2023	16:14
BLF0318-DUP1	Duplicate	23073107	07/31/2023	17:03
23F0143-02	LDW23-SC1226A	23073108	07/31/2023	17:52
23F0143-14	LDW23-SC1023A	23073109	07/31/2023	18:41
23F0143-24	LDW23-SC1162A	23073110	07/31/2023	19:30
23F0143-29	LDW23-SS1067	23073111	07/31/2023	20:19
SLG0303-CCV1	CS3C2	23073112	07/31/2023	21:08
SLG0303-RES2	ISCC2	23073113	07/31/2023	22:01



CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B

Lab Name: Analytical Resources, LLC SDG: 23F0143
Instrument .ID: AUTOSPEC01 Lab File ID: 23073113
Date Analyzed: 07/31/23 Time Analyzed: 22:01
Lab Sample ID: SLG0303-RES2 Sequence: SLG0303

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 9
3467-TCDF/2378-TCDF: 7.4

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLG0303-ICV1	CS3C1	23073102	07/31/2023	12:51
SLG0303-RES1	ISCC1	23073103	07/31/2023	13:42
BLF0318-BLK2	BLANK	23073104	07/31/2023	14:37
BLF0318-BS2	LCS	23073105	07/31/2023	15:25
BLF0318-SRM1	Reference	23073106	07/31/2023	16:14
BLF0318-DUP1	Duplicate	23073107	07/31/2023	17:03
23F0143-02	LDW23-SC1226A	23073108	07/31/2023	17:52
23F0143-14	LDW23-SC1023A	23073109	07/31/2023	18:41
23F0143-24	LDW23-SC1162A	23073110	07/31/2023	19:30
23F0143-29	LDW23-SS1067	23073111	07/31/2023	20:19
SLG0303-CCV1	CS3C2	23073112	07/31/2023	21:08
SLG0303-RES2	ISCC2	23073113	07/31/2023	22:01



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLG0149

Instrument: AUTOSPEC01

Calibration: GG00074

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3A1	SLG0149-ICV1	23071302	NA	07/13/23 10:17
ISCA1	SLG0149-RES1	23071303	NA	07/13/23 11:13
CSLCA	SLG0149-CAL1	23071304	NA	07/13/23 12:03
CS1CA	SLG0149-CAL2	23071305	NA	07/13/23 12:53
CS2CA	SLG0149-CAL3	23071306	NA	07/13/23 14:50
CS3CA	SLG0149-CAL4	23071307	NA	07/13/23 15:45
CS4CA	SLG0149-CAL5	23071308	NA	07/13/23 16:32
CS5CA	SLG0149-CAL6	23071309	NA	07/13/23 17:21
ICVCA	SLG0149-SCV1	23071310	NA	07/13/23 18:10
CS3A2	SLG0149-CCV1	23071311	NA	07/13/23 18:58
CS3A2	SLG0149-RES2	23071312	NA	07/13/23 19:51



ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

Sequence: SLG0303

Instrument: AUTOSPEC01

Calibration: GG00074

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3C1	SLG0303-ICV1	23073102	NA	07/31/23 12:51
ISCC1	SLG0303-RES1	23073103	NA	07/31/23 13:42
Blank	BLF0318-BLK2	23073104	Solid	07/31/23 14:37
LCS	BLF0318-BS2	23073105	Solid	07/31/23 15:25
Reference	BLF0318-SRM1	23073106	Solid	07/31/23 16:14
LDW23-SC1226A	BLF0318-DUP1	23073107	Solid	07/31/23 17:03
LDW23-SC1226A	23F0143-02	23073108	Solid	07/31/23 17:52
LDW23-SC1023A	23F0143-14	23073109	Solid	07/31/23 18:41
LDW23-SC1162A	23F0143-24	23073110	Solid	07/31/23 19:30
LDW23-SS1067	23F0143-29	23073111	Solid	07/31/23 20:19
CS3C2	SLG0303-CCV1	23073112	NA	07/31/23 21:08
ISCC2	SLG0303-RES2	23073113	NA	07/31/23 22:01



ANALYSIS SEQUENCE

SLG0303

Instrument: AUTOSPEC01 HRGCMS Column ID: L2314
Calibration ID: GG00074 Tune File: JUL0323_1-5
EM Voltage: 350 Resolution check times : 10:57, 22:01

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLG0303-ICV1	CS3C1	QC		1	K009821		07/31/2023 12:51	23073102	PK	
SLG0303-RES1	ISCC1	QC		2	L002084		07/31/2023 13:42	23073103	PK	
BLF0318-BLK2	BLANK	QC		3		L006735	07/31/2023 14:37	23073104	PK	
BLF0318-BS2	LCS	QC		4		L006735	07/31/2023 15:25	23073105	PK	
BLF0318-SRM1	Reference	QC		5		L006735	07/31/2023 16:14	23073106	PK	
BLF0318-DUP1	Duplicate	QC		6		L006735	07/31/2023 17:03	23073107	PK	
23F0143-02	LDW23-SC1226A	1613B Dioxin	B 01	7		L006735	07/31/2023 17:52	23073108	PK	
23F0143-14	LDW23-SC1023A	1613B Dioxin	B 01	8		L006735	07/31/2023 18:41	23073109	PK	
23F0143-24	LDW23-SC1162A	1613B Dioxin	B 01	9		L006735	07/31/2023 19:30	23073110	PK	
23F0143-29	LDW23-SS1067	1613B Dioxin	B 01	10		L006735	07/31/2023 20:19	23073111	PK	
SLG0303-CCV1	CS3C2	QC		11	K009821		07/31/2023 21:08	23073112	PK	
SLG0303-RES2	ISCC2	QC		12	L002084		07/31/2023 22:01	23073113	PK	

Dataset: T:\Autospec\Processed Data Batch\230731IH.qld
 Last Altered: Tuesday, August 01, 2023 08:05:30 Pacific Daylight Time
 Printed: Tuesday, August 01, 2023 08:17:28 Pacific Daylight Time

8/1/23 pk

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23073103, Compound:13C-123789-HxCDD, RT:36.188	2
Peak deleted	Sample:23073113, Compound:13C-123789-HxCDD, RT:36.244	12
Peak deleted	Sample:23073104, Compound:PF, RT:29.559	3
Peak deleted	Sample:23073104, Compound:PF, RT:30.929	3
Pre modification peak	Sample:23073104, Compound:OF, RT:44.819	3
Peak modified	Sample:23073104, Compound:OF, RT:44.819	3
Pre modification peak	Sample:23073106, Compound:HF, RT:36.600	5
Peak modified	Sample:23073106, Compound:HF, RT:36.600	5
Pre modification peak	Sample:23073107, Compound:PF, RT:30.952	6
Peak modified	Sample:23073107, Compound:PF, RT:30.952	6
Pre modification peak	Sample:23073108, Compound:TF, RT:25.464	7
Peak modified	Sample:23073108, Compound:TF, RT:25.464	7
Pre modification peak	Sample:23073108, Compound:HF, RT:35.564	7
Peak modified	Sample:23073108, Compound:HF, RT:35.564	7
Pre modification peak	Sample:23073109, Compound:PF, RT:30.951	8
Peak modified	Sample:23073109, Compound:PF, RT:30.951	8
Pre modification peak	Sample:23073111, Compound:HF, RT:35.775	10
Peak modified	Sample:23073111, Compound:HF, RT:35.775	10
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230731IH.qld'	
Peak deleted	Sample:23073106, Compound:TF, RT:25.252	5
Peak added	Sample:23073106, Compound:TF, RT:24.545	5
Peak added	Sample:23073106, Compound:TF, RT:24.545	5
Peak deleted	Sample:23073106, Compound:PP, RT:26.763	5
Peak added	Sample:23073106, Compound:PD, RT:28.501	5
Peak added	Sample:23073106, Compound:PD, RT:28.501	5
Peak deleted	Sample:23073106, Compound:HD, RT:33.403	5
Peak deleted	Sample:23073107, Compound:TF, RT:25.986	6
Peak deleted	Sample:23073107, Compound:PF, RT:31.899	6
Peak deleted	Sample:23073107, Compound:HPF, RT:39.286	6
Peak deleted	Sample:23073107, Compound:TD, RT:23.839	6
Peak deleted	Sample:23073107, Compound:TD, RT:26.749	6
Peak deleted	Sample:23073107, Compound:HD, RT:33.425	6
Peak deleted	Sample:23073108, Compound:HD, RT:36.667	7
Peak deleted	Sample:23073109, Compound:TF, RT:27.399	8
Peak added	Sample:23073109, Compound:PF, RT:28.567	8
Peak added	Sample:23073109, Compound:PF, RT:28.567	8
Peak deleted	Sample:23073109, Compound:HD, RT:33.425	8
Peak deleted	Sample:23073110, Compound:TF, RT:25.831	9
Peak deleted	Sample:23073110, Compound:TF, RT:25.096	9
Peak added	Sample:23073110, Compound:PF, RT:28.556	9
Peak added	Sample:23073110, Compound:PF, RT:28.556	9
Peak deleted	Sample:23073110, Compound:HF, RT:33.392	9
Peak added	Sample:23073110, Compound:TD, RT:24.235	9
Peak added	Sample:23073110, Compound:TD, RT:24.235	9
Peak deleted	Sample:23073111, Compound:PP, RT:26.819	10
Peak deleted	Sample:23073111, Compound:PD, RT:30.350	10
Peak deleted	Sample:23073111, Compound:HD, RT:33.480	10
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230731IH.qld'	



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0149</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SLG0149-ICV1</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23071302</u>	Analyzed:	<u>07/13/23 10:17</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	90.6	71 - 129	25.6612	25.65897	0.0022	N/A	
13C12-2,3,7,8-TCDD	100.00	103	82 - 118	26.2968	26.29225	0.0046	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	98.6	76 - 124	29.811	29.8166	-0.0056	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	99.3	77 - 123	31.1478	31.15352	-0.0057	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	99.2	62 - 138	31.4042	31.4042	0.0000	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	96.1	76 - 124	34.78	34.78007	-0.0001	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	88.8	70 - 130	34.9137	34.91743	-0.0037	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	95.6	73 - 127	35.7827	35.78273	0.0000	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	95.1	74 - 126	36.8188	36.8152	0.0036	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	98.4	85 - 115	35.894	35.89973	-0.0057	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	99.2	85 - 115	36.0055	36.01302	-0.0075	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	97.5	78 - 122	38.6572	38.65917	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	100	77 - 123	40.8855	40.8855	0.0000	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	115	72 - 128	40.139	40.14462	-0.0056	N/A	
13C12-OCDD	200.00	115	48 - 152	44.8418	44.84343	-0.0016	N/A	
37Cl4-2,3,7,8-TCDD	10.000	103	0 - 200	26.311	26.32052	-0.0095	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory: Analytical Resources, LLC SDG: 23F0143
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Sequence: SLG0149 Instrument: AUTOSPEC01
 Sample ID: SLG0149-SCV1 Calibration: GG00074
 File ID: 23071310 Analyzed: 07/13/23 18:10

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	25.6613	25.65897	0.0023	N/A	
13C12-2,3,7,8-TCDD	100.00	103	0 - 200	26.2828	26.29225	-0.0094	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	105	0 - 200	29.811	29.8166	-0.0056	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	104	0 - 200	31.148	31.15352	-0.0055	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	105	0 - 200	31.4042	31.4042	0.0000	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	97.7	0 - 200	34.769	34.78007	-0.0111	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	99.6	0 - 200	34.9138	34.91743	-0.0036	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	95.1	0 - 200	35.7715	35.78273	-0.0112	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	95.0	0 - 200	36.8078	36.8152	-0.0074	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	100	0 - 200	35.894	35.89973	-0.0057	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	105	0 - 200	36.0055	36.01302	-0.0075	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	96.0	0 - 200	38.6573	38.65917	-0.0019	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	99.4	0 - 200	40.8743	40.8855	-0.0112	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	0 - 200	40.139	40.14462	-0.0056	N/A	
13C12-OCDD	200.00	112	0 - 200	44.8418	44.84343	-0.0016	N/A	
37Cl4-2,3,7,8-TCDD	10.000	99.7	0 - 200	26.3112	26.32052	-0.0093	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory: Analytical Resources, LLC SDG: 23F0143
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Sequence: SLG0149 Instrument: AUTOSPEC01
 Sample ID: SLG0149-CCV1 Calibration: GG00074
 File ID: 23071311 Analyzed: 07/13/23 18:58

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	92.2	71 - 129	25.6613	25.65897	0.0023	N/A	
13C12-2,3,7,8-TCDD	100.00	102	82 - 118	26.297	26.29225	0.0048	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	95.2	76 - 124	29.8112	29.8166	-0.0054	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	97.3	77 - 123	31.1483	31.15352	-0.0052	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	94.2	62 - 138	31.4045	31.4042	0.0003	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	98.8	76 - 124	34.7805	34.78007	0.0004	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	103	70 - 130	34.9142	34.91743	-0.0032	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	98.8	73 - 127	35.7832	35.78273	0.0005	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	74 - 126	36.8193	36.8152	0.0041	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	101	85 - 115	35.8945	35.89973	-0.0052	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	109	85 - 115	36.017	36.01302	0.0040	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	103	78 - 122	38.6577	38.65917	-0.0015	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	99.5	77 - 123	40.886	40.8855	0.0005	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	109	72 - 128	40.1395	40.14462	-0.0051	N/A	
13C12-OCDD	200.00	121	48 - 152	44.8427	44.84343	-0.0007	N/A	
37Cl4-2,3,7,8-TCDD	10.000	103	0 - 200	26.3112	26.32052	-0.0093	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SLG0303-ICV1</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073102</u>	Analyzed:	<u>07/31/23 12:51</u>

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	88.3	71 - 129	25.4493	25.65897	-0.2097	N/A	
13C12-2,3,7,8-TCDD	100.00	107	82 - 118	26.085	26.29225	-0.2072	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	107	76 - 124	29.5923	29.8166	-0.2243	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	107	77 - 123	30.9293	31.15352	-0.2242	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	107	62 - 138	31.1743	31.4042	-0.2299	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	85.7	76 - 124	34.5613	34.78007	-0.2188	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	78.0	70 - 130	34.7062	34.91743	-0.2112	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	84.4	73 - 127	35.5753	35.78273	-0.2074	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	85.3	74 - 126	36.6113	36.8152	-0.2039	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	93.1	85 - 115	35.6867	35.89973	-0.2130	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	87.5	85 - 115	35.8092	36.01302	-0.2038	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	93.3	78 - 122	38.4608	38.65917	-0.1984	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	93.4	77 - 123	40.6557	40.8855	-0.2298	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	109	72 - 128	39.9313	40.14462	-0.2133	N/A	
13C12-OCDD	200.00	126	48 - 152	44.5623	44.84343	-0.2811	N/A	
37Cl4-2,3,7,8-TCDD	10.000	104	0 - 200	26.0992	26.32052	-0.2213	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BLF0318-BLK2</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073104</u>	Analyzed:	<u>07/31/23 14:37</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	72.8	24 - 169	25.4495	25.65897	-0.2095	N/A	
13C12-2,3,7,8-TCDD	200.00	85.4	25 - 164	26.085	26.29225	-0.2072	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	86.0	24 - 185	29.5923	29.8166	-0.2243	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	82.0	21 - 178	30.9293	31.15352	-0.2242	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	90.5	25 - 181	31.1857	31.4042	-0.2185	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	82.7	26 - 152	34.5615	34.78007	-0.2186	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	79.0	26 - 123	34.7063	34.91743	-0.2111	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	79.5	28 - 136	35.5752	35.78273	-0.2075	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	74.8	29 - 147	36.6115	36.8152	-0.2037	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	92.5	32 - 141	35.6978	35.89973	-0.2019	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	90.6	28 - 130	35.8092	36.01302	-0.2038	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	78.1	28 - 143	38.461	38.65917	-0.1982	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	80.5	26 - 138	40.6558	40.8855	-0.2297	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	100	23 - 140	39.9315	40.14462	-0.2131	N/A	
13C12-OCDD	400.00	118	17 - 157	44.5625	44.84343	-0.2809	N/A	
37C14-2,3,7,8-TCDD	80.000	87.6	35 - 197	26.0992	26.32052	-0.2213	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory: Analytical Resources, LLC SDG: 23F0143
 Client: Anchor QEA, LLC Project: AOC5 MR Phase 1
 Sequence: SLG0303 Instrument: AUTOSPEC01
 Sample ID: BLF0318-BS2 Calibration: GG00074
 File ID: 23073105 Analyzed: 07/31/23 15:25

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	66.2	24 - 169	25.4353	25.65897	-0.2237	N/A	
13C12-2,3,7,8-TCDD	200.00	80.4	25 - 164	26.071	26.29225	-0.2212	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	75.1	24 - 185	29.5813	29.8166	-0.2353	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	73.5	21 - 178	30.9183	31.15352	-0.2352	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	79.2	25 - 181	31.1635	31.4042	-0.2407	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	66.3	26 - 152	34.5505	34.78007	-0.2296	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	60.6	26 - 123	34.6953	34.91743	-0.2221	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	65.3	28 - 136	35.5643	35.78273	-0.2184	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	64.7	29 - 147	36.6005	36.8152	-0.2147	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	76.4	32 - 141	35.6757	35.89973	-0.2240	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	72.0	28 - 130	35.7982	36.01302	-0.2148	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	66.0	28 - 143	38.45	38.65917	-0.2092	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	64.8	26 - 138	40.6448	40.8855	-0.2407	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	81.3	23 - 140	39.9207	40.14462	-0.2239	N/A	
13C12-OCDD	400.00	92.1	17 - 157	44.5535	44.84343	-0.2899	N/A	
37C14-2,3,7,8-TCDD	80.000	85.1	35 - 197	26.0852	26.32052	-0.2353	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BLF0318-SRM1</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073106</u>	Analyzed:	<u>07/31/23 16:14</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	199.80	72.8	24 - 169	25.4353	25.65897	-0.2237	N/A	
13C12-2,3,7,8-TCDD	199.80	90.1	25 - 164	26.071	26.29225	-0.2212	N/A	
13C12-1,2,3,7,8-PeCDF	199.80	90.4	24 - 185	29.5812	29.8166	-0.2354	N/A	
13C12-2,3,4,7,8-PeCDF	199.80	93.0	21 - 178	30.9183	31.15352	-0.2352	N/A	
13C12-1,2,3,7,8-PeCDD	199.80	96.9	25 - 181	31.1745	31.4042	-0.2297	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.80	75.7	26 - 152	34.5615	34.78007	-0.2186	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.80	74.2	26 - 123	34.7063	34.91743	-0.2111	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.80	78.5	28 - 136	35.5863	35.78273	-0.1964	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.80	80.8	29 - 147	36.6003	36.8152	-0.2149	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.80	86.9	32 - 141	35.7088	35.89973	-0.1909	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.80	82.3	28 - 130	35.8203	36.01302	-0.1927	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.80	71.5	28 - 143	38.4608	38.65917	-0.1984	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.80	74.2	26 - 138	40.6445	40.8855	-0.2410	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.80	91.6	23 - 140	39.9203	40.14462	-0.2243	N/A	
13C12-OCDD	399.60	97.7	17 - 157	44.562	44.84343	-0.2814	N/A	
37Cl4-2,3,7,8-TCDD	79.920	93.0	35 - 197	26.085	26.32052	-0.2355	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>BLF0318-DUP1</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073107</u>	Analyzed:	<u>07/31/23 17:03</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	199.77	72.1	24 - 169	25.4495	25.65897	-0.2095	N/A	
13C12-2,3,7,8-TCDD	199.77	88.2	25 - 164	26.0852	26.29225	-0.2070	N/A	
13C12-1,2,3,7,8-PeCDF	199.77	87.3	24 - 185	29.6037	29.8166	-0.2129	N/A	
13C12-2,3,4,7,8-PeCDF	199.77	89.3	21 - 178	30.9405	31.15352	-0.2130	N/A	
13C12-1,2,3,7,8-PeCDD	199.77	91.6	25 - 181	31.1857	31.4042	-0.2185	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.77	70.5	26 - 152	34.5727	34.78007	-0.2074	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.77	65.2	26 - 123	34.7175	34.91743	-0.1999	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.77	71.3	28 - 136	35.5867	35.78273	-0.1960	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.77	74.4	29 - 147	36.6227	36.8152	-0.1925	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.77	79.0	32 - 141	35.7092	35.89973	-0.1905	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.77	72.9	28 - 130	35.8207	36.01302	-0.1923	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.77	69.2	28 - 143	38.4722	38.65917	-0.1870	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.77	76.1	26 - 138	40.667	40.8855	-0.2185	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.77	89.0	23 - 140	39.943	40.14462	-0.2016	N/A	
13C12-OCDD	399.54	101	17 - 157	44.5718	44.84343	-0.2716	N/A	
37C14-2,3,7,8-TCDD	79.908	93.3	35 - 197	26.1133	26.32052	-0.2072	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>23F0143-02</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073108</u>	Analyzed:	<u>07/31/23 17:52</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	199.77	63.7	24 - 169	25.4495	25.65897	-0.2095	N/A	
13C12-2,3,7,8-TCDD	199.77	80.2	25 - 164	26.071	26.29225	-0.2212	N/A	
13C12-1,2,3,7,8-PeCDF	199.77	77.4	24 - 185	29.5925	29.8166	-0.2241	N/A	
13C12-2,3,4,7,8-PeCDF	199.77	79.4	21 - 178	30.9297	31.15352	-0.2238	N/A	
13C12-1,2,3,7,8-PeCDD	199.77	81.6	25 - 181	31.1748	31.4042	-0.2294	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.77	64.6	26 - 152	34.5617	34.78007	-0.2184	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.77	57.6	26 - 123	34.7067	34.91743	-0.2107	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.77	64.1	28 - 136	35.5867	35.78273	-0.1960	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.77	65.9	29 - 147	36.6117	36.8152	-0.2035	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.77	71.4	32 - 141	35.698	35.89973	-0.2017	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.77	66.1	28 - 130	35.8207	36.01302	-0.1923	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.77	62.7	28 - 143	38.4612	38.65917	-0.1980	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.77	64.3	26 - 138	40.6562	40.8855	-0.2293	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.77	80.2	23 - 140	39.932	40.14462	-0.2126	N/A	
13C12-OCDD	399.54	88.9	17 - 157	44.572	44.84343	-0.2714	N/A	
37C14-2,3,7,8-TCDD	79.908	83.2	35 - 197	26.0992	26.32052	-0.2213	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>23F0143-14</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073109</u>	Analyzed:	<u>07/31/23 18:41</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	199.93	76.4	24 - 169	25.4635	25.65897	-0.1955	N/A	
13C12-2,3,7,8-TCDD	199.93	92.9	25 - 164	26.0992	26.29225	-0.1931	N/A	
13C12-1,2,3,7,8-PeCDF	199.93	87.7	24 - 185	29.6033	29.8166	-0.2133	N/A	
13C12-2,3,4,7,8-PeCDF	199.93	90.0	21 - 178	30.9403	31.15352	-0.2132	N/A	
13C12-1,2,3,7,8-PeCDD	199.93	92.7	25 - 181	31.1965	31.4042	-0.2077	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.93	73.8	26 - 152	34.5833	34.78007	-0.1968	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.93	66.1	26 - 123	34.7282	34.91743	-0.1892	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.93	72.6	28 - 136	35.6082	35.78273	-0.1745	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.93	73.6	29 - 147	36.622	36.8152	-0.1932	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.93	83.1	32 - 141	35.7308	35.89973	-0.1689	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.93	74.6	28 - 130	35.8422	36.01302	-0.1708	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.93	70.3	28 - 143	38.4825	38.65917	-0.1767	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.93	73.6	26 - 138	40.6773	40.8855	-0.2082	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.93	90.5	23 - 140	39.9532	40.14462	-0.1914	N/A	
13C12-OCDD	399.85	98.7	17 - 157	44.589	44.84343	-0.2544	N/A	
37C14-2,3,7,8-TCDD	79.971	95.8	35 - 197	26.1132	26.32052	-0.2073	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>23F0143-24</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073110</u>	Analyzed:	<u>07/31/23 19:30</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	199.75	68.7	24 - 169	25.4495	25.65897	-0.2095	N/A	
13C12-2,3,7,8-TCDD	199.75	83.5	25 - 164	26.0852	26.29225	-0.2070	N/A	
13C12-1,2,3,7,8-PeCDF	199.75	76.6	24 - 185	29.6037	29.8166	-0.2129	N/A	
13C12-2,3,4,7,8-PeCDF	199.75	79.4	21 - 178	30.9407	31.15352	-0.2128	N/A	
13C12-1,2,3,7,8-PeCDD	199.75	80.9	25 - 181	31.1858	31.4042	-0.2184	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.75	64.9	26 - 152	34.5728	34.78007	-0.2073	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.75	58.2	26 - 123	34.7065	34.91743	-0.2109	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.75	64.8	28 - 136	35.5865	35.78273	-0.1962	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.75	65.7	29 - 147	36.6228	36.8152	-0.1924	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.75	73.1	32 - 141	35.7092	35.89973	-0.1905	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.75	66.0	28 - 130	35.8205	36.01302	-0.1925	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.75	62.5	28 - 143	38.4723	38.65917	-0.1869	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.75	64.0	26 - 138	40.6673	40.8855	-0.2182	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.75	81.0	23 - 140	39.943	40.14462	-0.2016	N/A	
13C12-OCDD	399.49	90.7	17 - 157	44.5812	44.84343	-0.2622	N/A	
37C14-2,3,7,8-TCDD	79.899	86.9	35 - 197	26.1135	26.32052	-0.2070	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>23F0143-29</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073111</u>	Analyzed:	<u>07/31/23 20:19</u>

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.70	53.0	24 - 169	25.5198	25.65897	-0.1392	N/A	
13C12-2,3,7,8-TCDD	199.70	73.1	25 - 164	26.1555	26.29225	-0.1367	N/A	
13C12-1,2,3,7,8-PeCDF	199.70	62.1	24 - 185	29.7035	29.8166	-0.1131	N/A	
13C12-2,3,4,7,8-PeCDF	199.70	66.5	21 - 178	31.0403	31.15352	-0.1132	N/A	
13C12-1,2,3,7,8-PeCDD	199.70	70.3	25 - 181	31.2967	31.4042	-0.1075	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.70	71.7	26 - 152	34.7057	34.78007	-0.0744	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.70	56.9	26 - 123	34.8505	34.91743	-0.0669	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.70	62.3	28 - 136	35.7528	35.78273	-0.0299	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.70	35.6	29 - 147	36.722	36.8152	-0.0932	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.70	72.6	32 - 141	35.8643	35.89973	-0.0354	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.70	62.8	28 - 130	35.9868	36.01302	-0.0262	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.70	48.5	28 - 143	38.5825	38.65917	-0.0767	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.70	46.9	26 - 138	40.7772	40.8855	-0.1083	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.70	64.9	23 - 140	40.042	40.14462	-0.1026	N/A	
13C12-OCDD	399.41	57.1	17 - 157	44.7075	44.84343	-0.1359	N/A	
37C14-2,3,7,8-TCDD	79.882	78.5	35 - 197	26.1838	26.32052	-0.1367	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY
EPA 1613B

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>23F0143</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC5 MR Phase 1</u>
Sequence:	<u>SLG0303</u>	Instrument:	<u>AUTOSPEC01</u>
Sample ID:	<u>SLG0303-CCV1</u>	Calibration:	<u>GG00074</u>
File ID:	<u>23073112</u>	Analyzed:	<u>07/31/23 21:08</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	85.7	71 - 129	25.4495	25.65897	-0.2095	N/A	
13C12-2,3,7,8-TCDD	100.00	105	82 - 118	26.0852	26.29225	-0.2070	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	98.6	76 - 124	29.6037	29.8166	-0.2129	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	101	77 - 123	30.9407	31.15352	-0.2128	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	103	62 - 138	31.1858	31.4042	-0.2184	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	81.5	76 - 124	34.5728	34.78007	-0.2073	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	70.0	70 - 130	34.7177	34.91743	-0.1997	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	80.5	73 - 127	35.5868	35.78273	-0.1959	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	81.3	74 - 126	36.623	36.8152	-0.1922	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	94.0	85 - 115	35.6983	35.89973	-0.2014	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	80.4	85 - 115	35.8208	36.01302	-0.1922	N/A	*
13C12-1,2,3,4,6,7,8-HpCDF	100.00	82.5	78 - 122	38.4725	38.65917	-0.1867	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	83.8	77 - 123	40.6673	40.8855	-0.2182	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	106	72 - 128	39.9432	40.14462	-0.2014	N/A	
13C12-OCDD	200.00	121	48 - 152	44.5813	44.84343	-0.2621	N/A	
37C14-2,3,7,8-TCDD	10.000	103	0 - 200	26.0993	26.32052	-0.2212	N/A	

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 1613B

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

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
LDW23-SC1226A 23F0143-02	01/03/23 12:35	06/06/23 15:53	06/14/23 12:00	161	365	07/31/23 17:52	47	365	
LDW23-SC1023A 23F0143-14	01/13/23 10:35	06/06/23 15:53	06/14/23 12:00	152	365	07/31/23 18:41	47	365	
LDW23-SC1162A 23F0143-24	01/17/23 14:37	06/06/23 15:53	06/14/23 12:00	147	365	07/31/23 19:30	47	365	
LDW23-SS1067 23F0143-29	04/11/23 14:38	06/06/23 15:53	06/14/23 12:00	63	365	07/31/23 20:19	47	365	
Duplicate BLF0318-DUP1	01/03/23 12:35	06/06/23 15:53	06/14/23 12:00	161	365	07/31/23 17:03	47	365	

* Indicates hold time exceedance.



**METHOD DETECTION
AND REPORTING LIMITS
EPA 1613B**

Laboratory: Analytical Resources, LLC

SDG: 23F0143

Client: Anchor QEA, LLC

Project: AOC5 MR Phase 1

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
---	----

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)

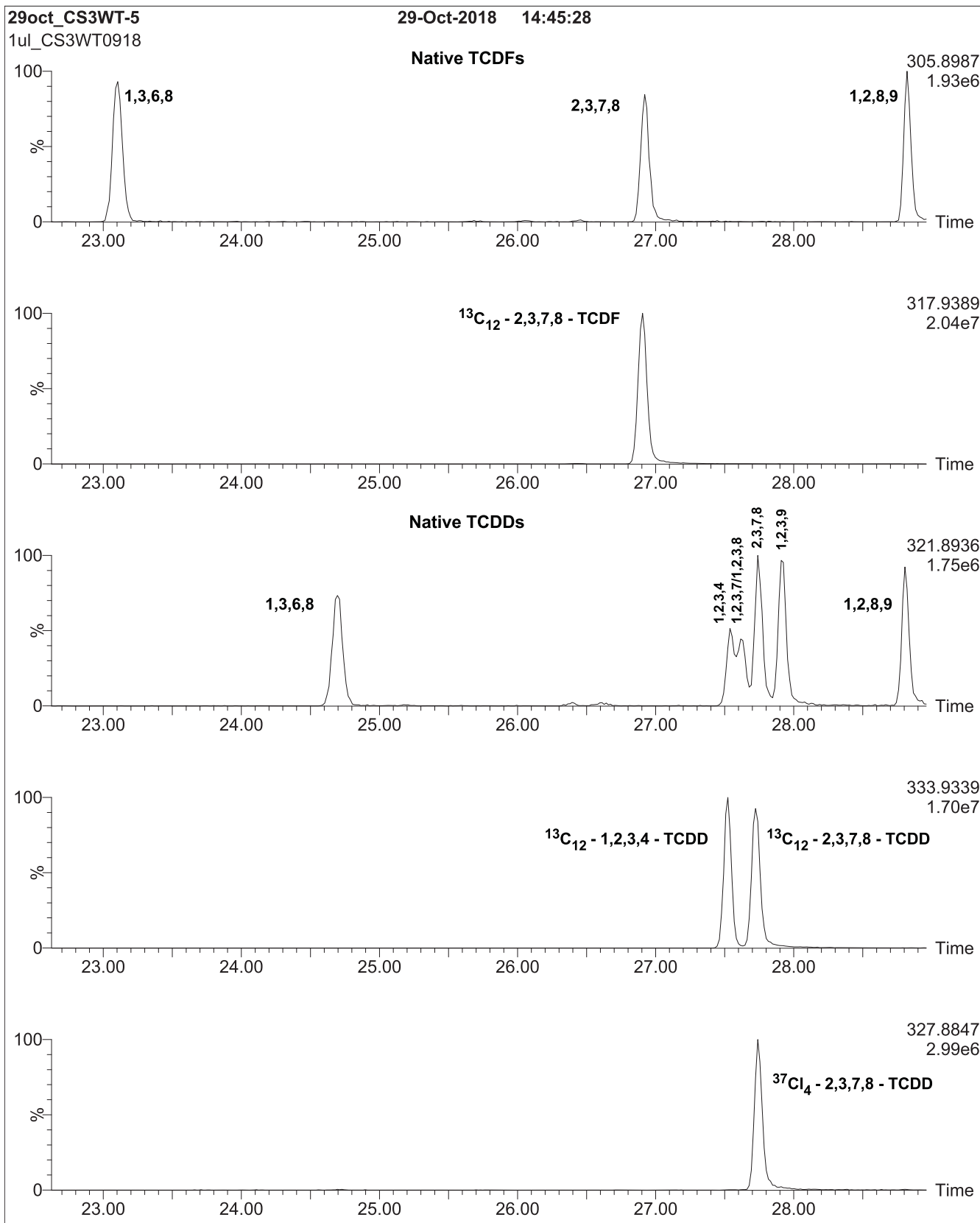


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

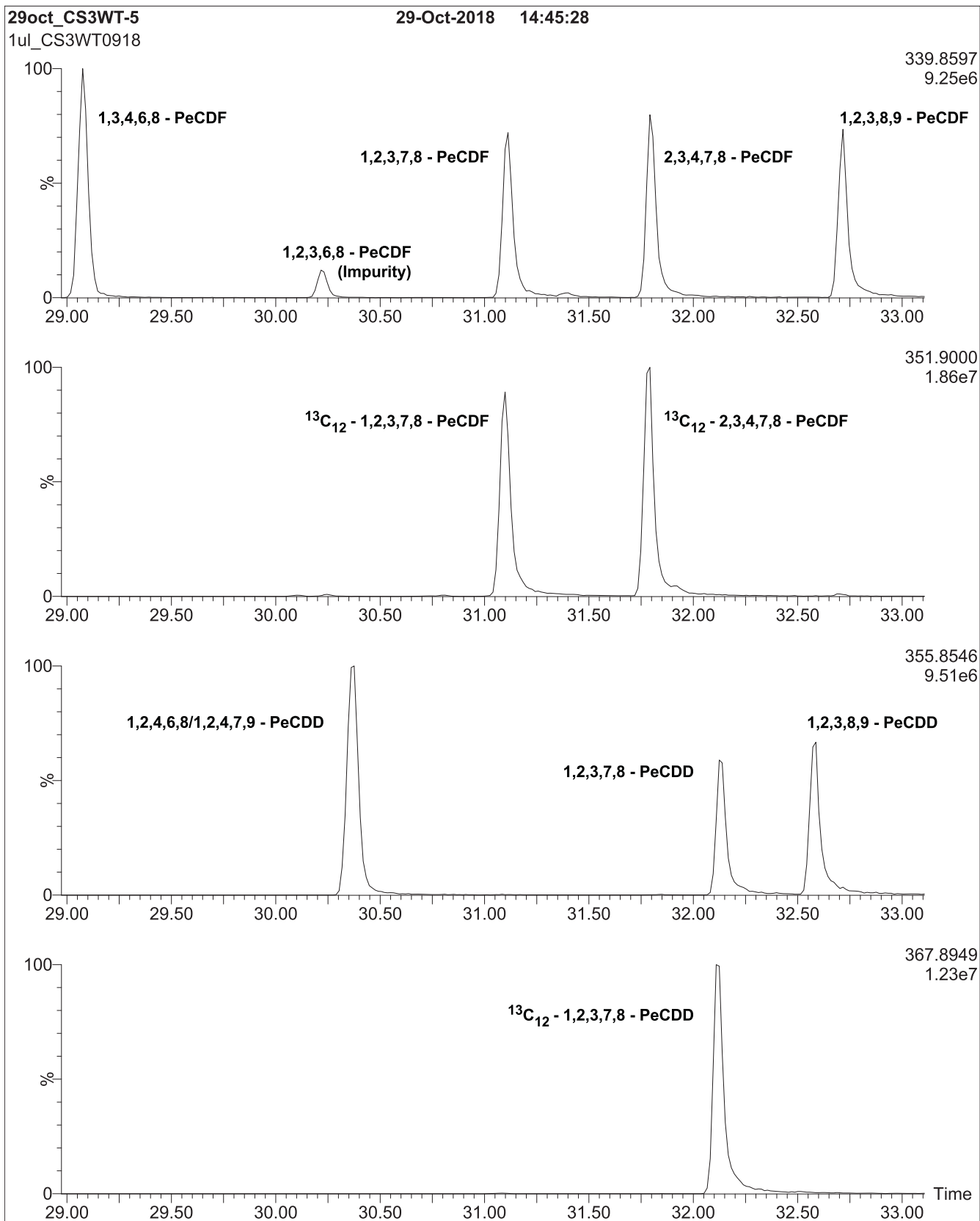


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

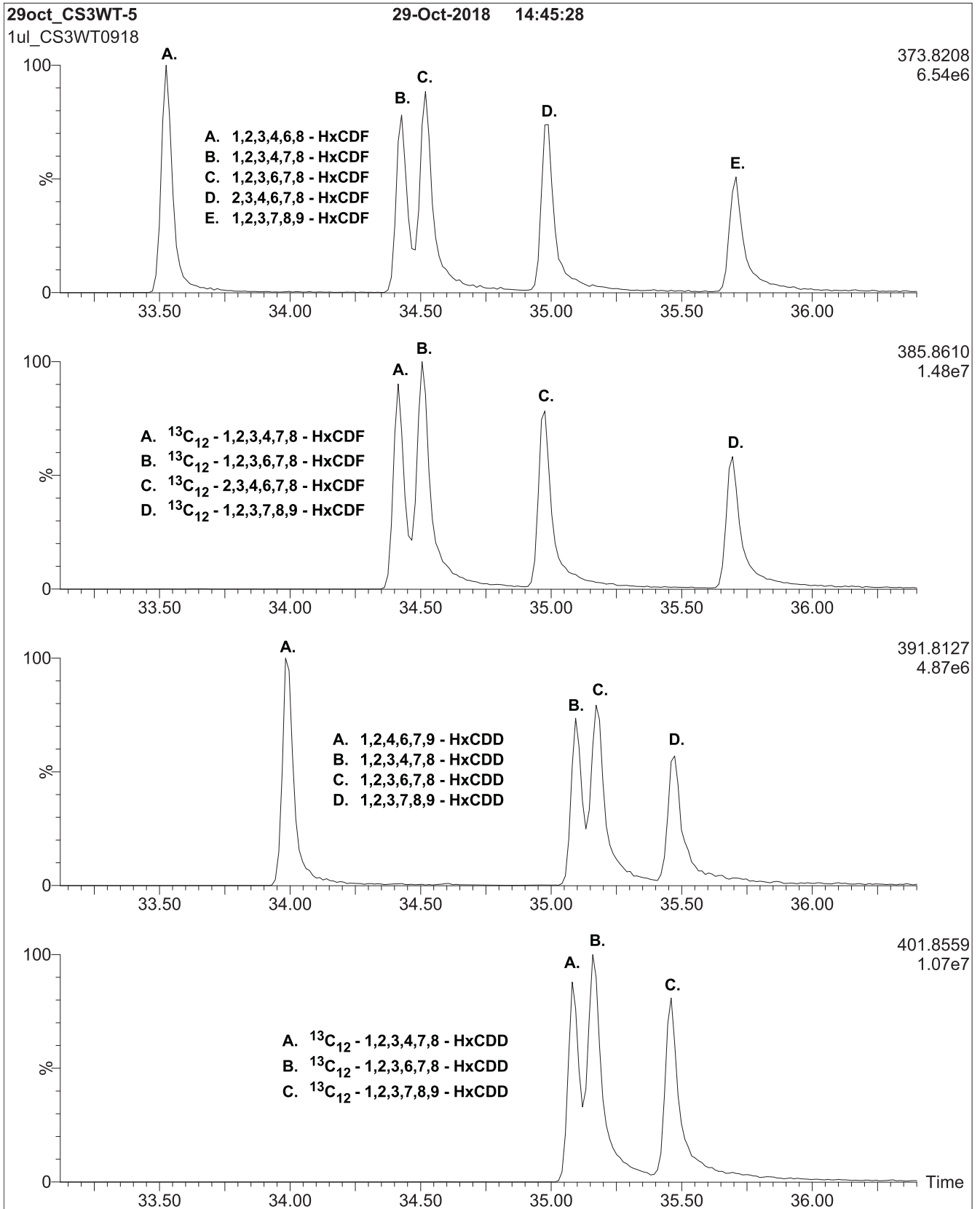


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

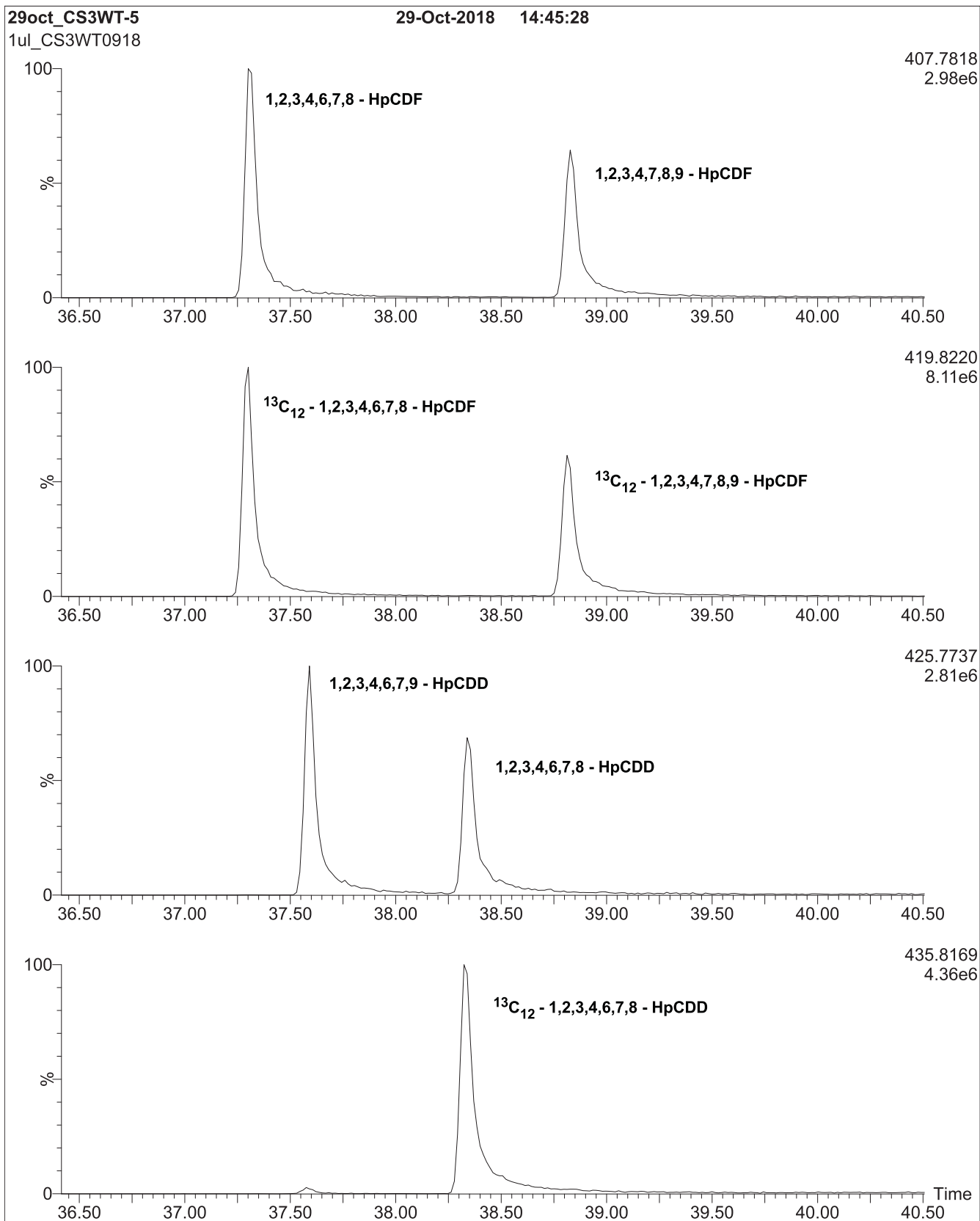
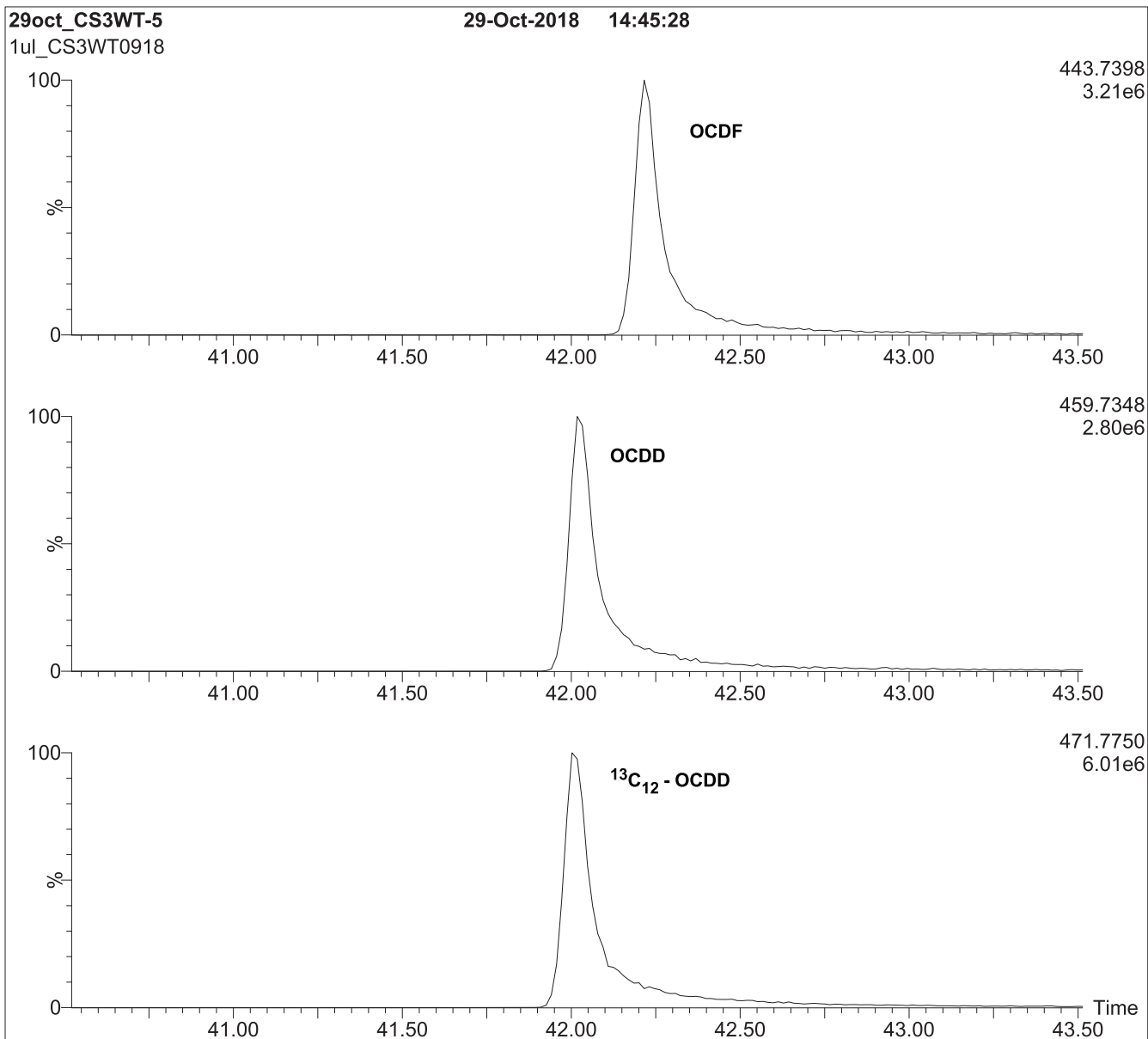


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)



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
Prepared By Joshua Rains 6/23/2020

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:

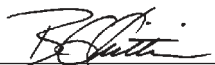
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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)

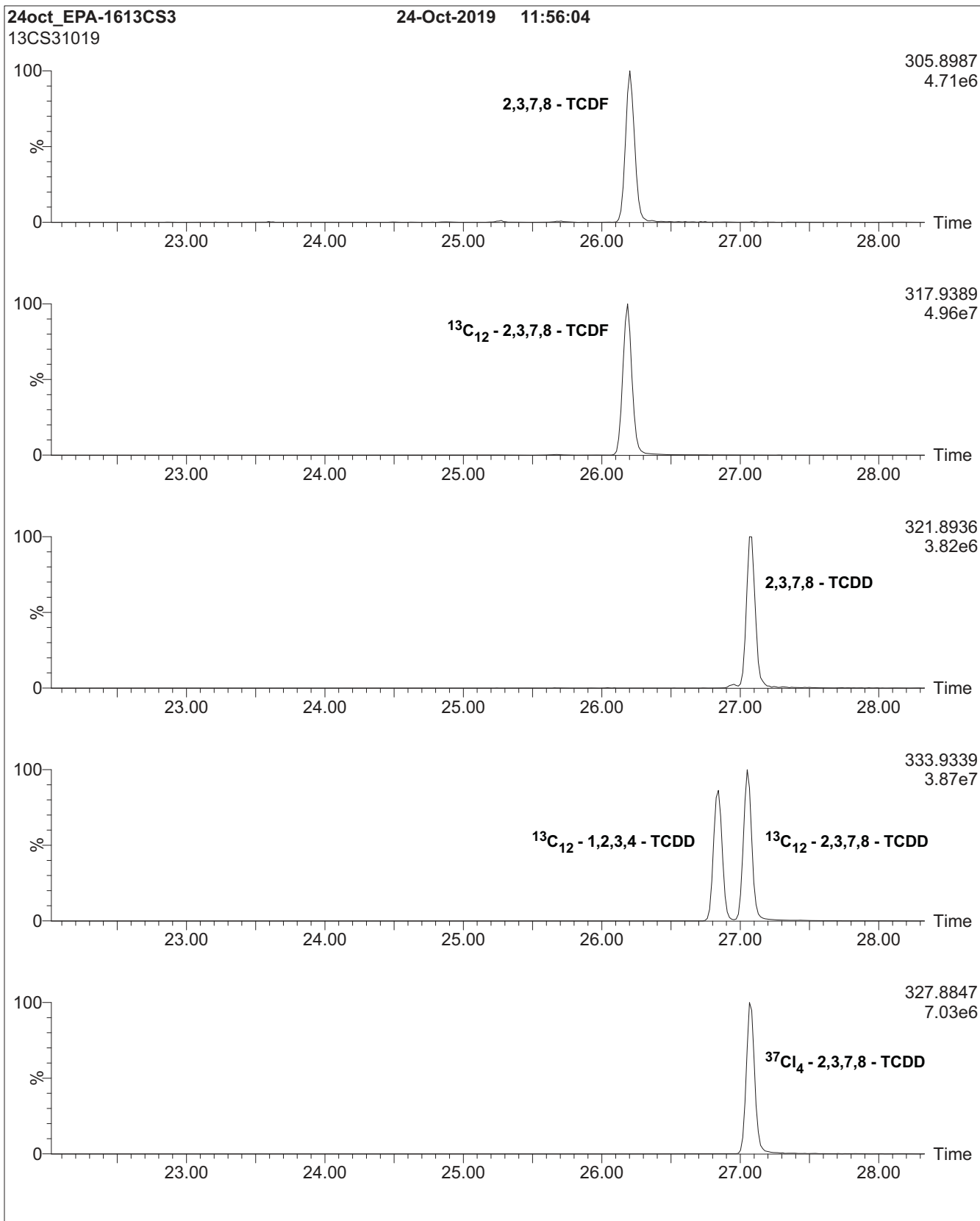


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

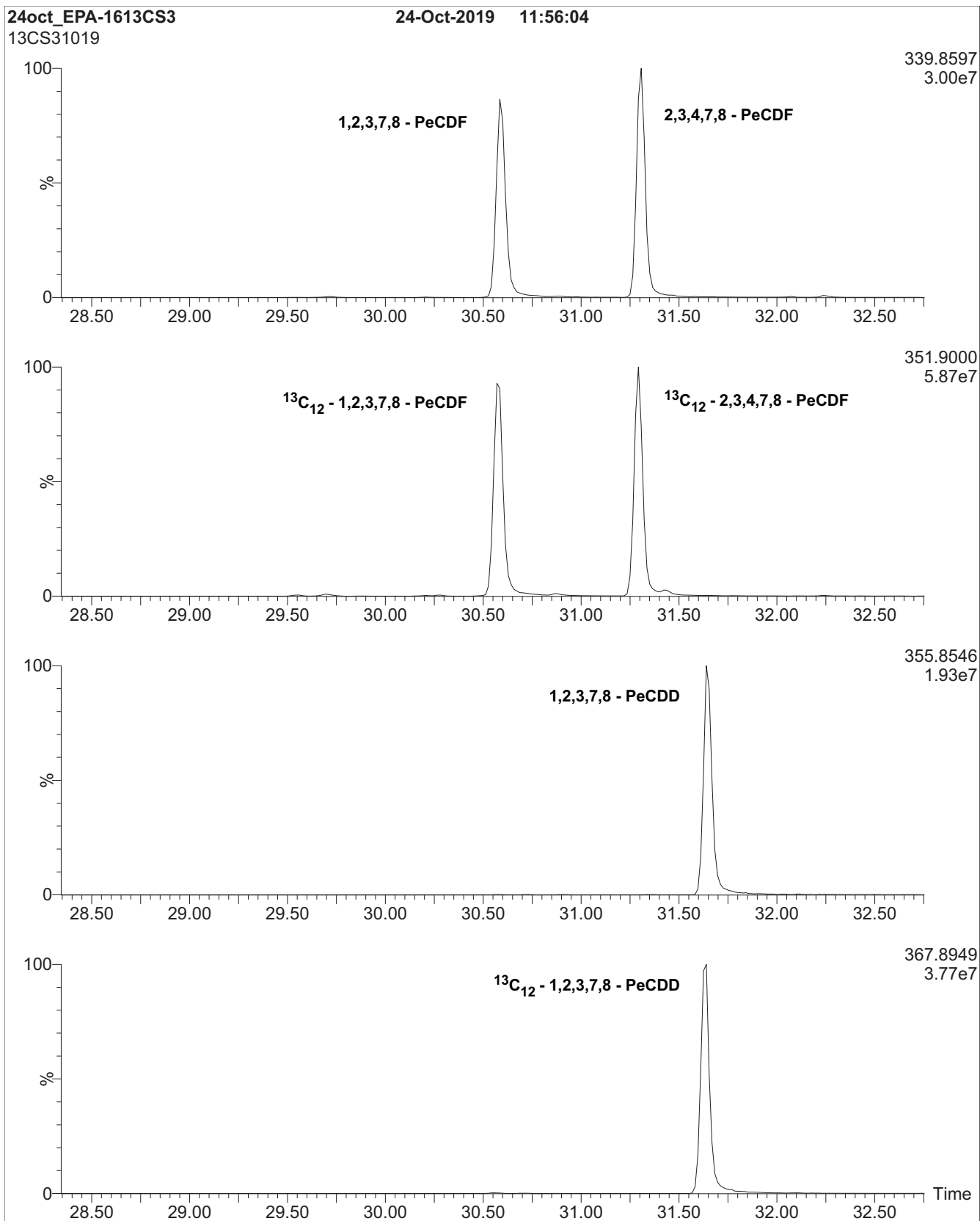


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

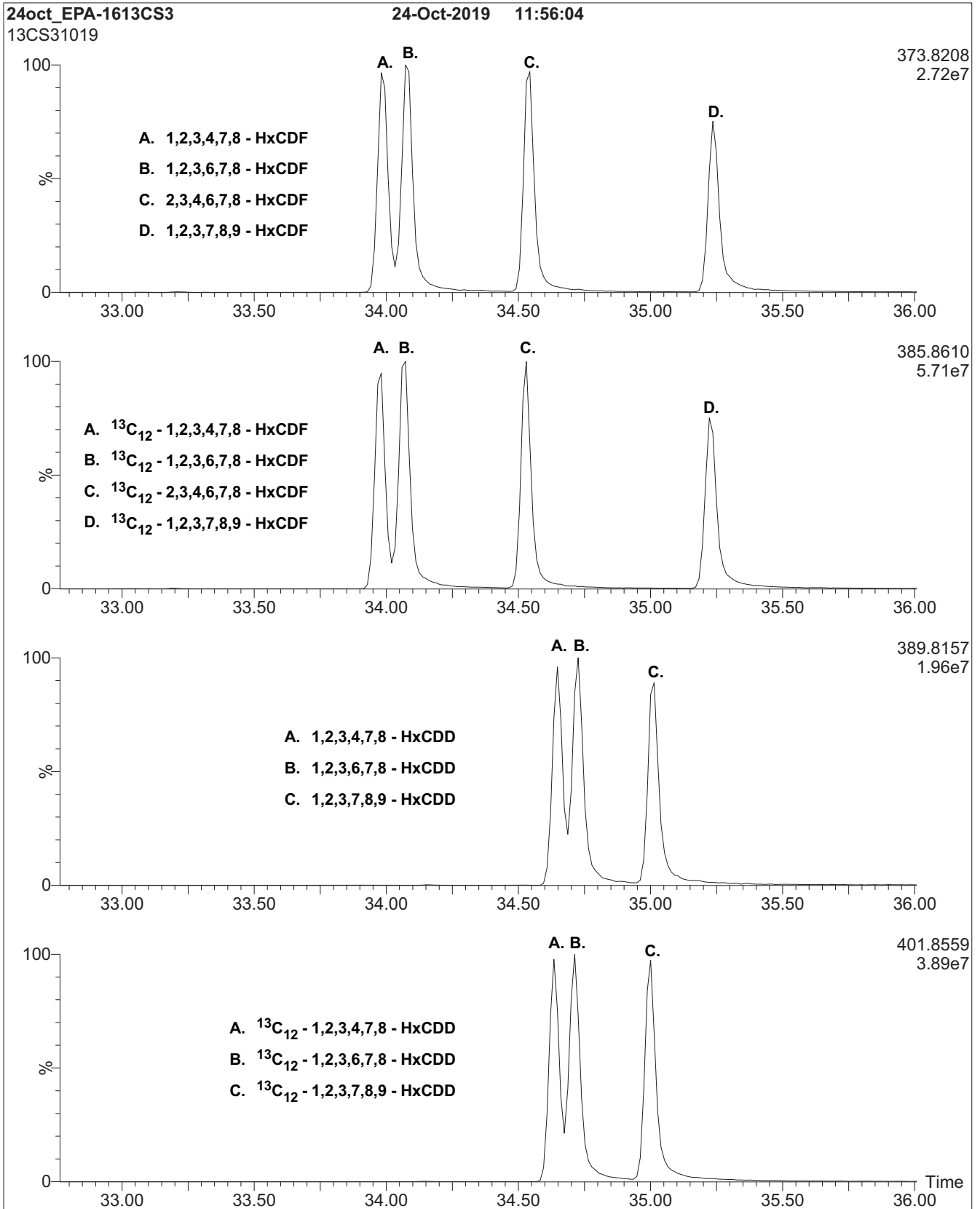


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

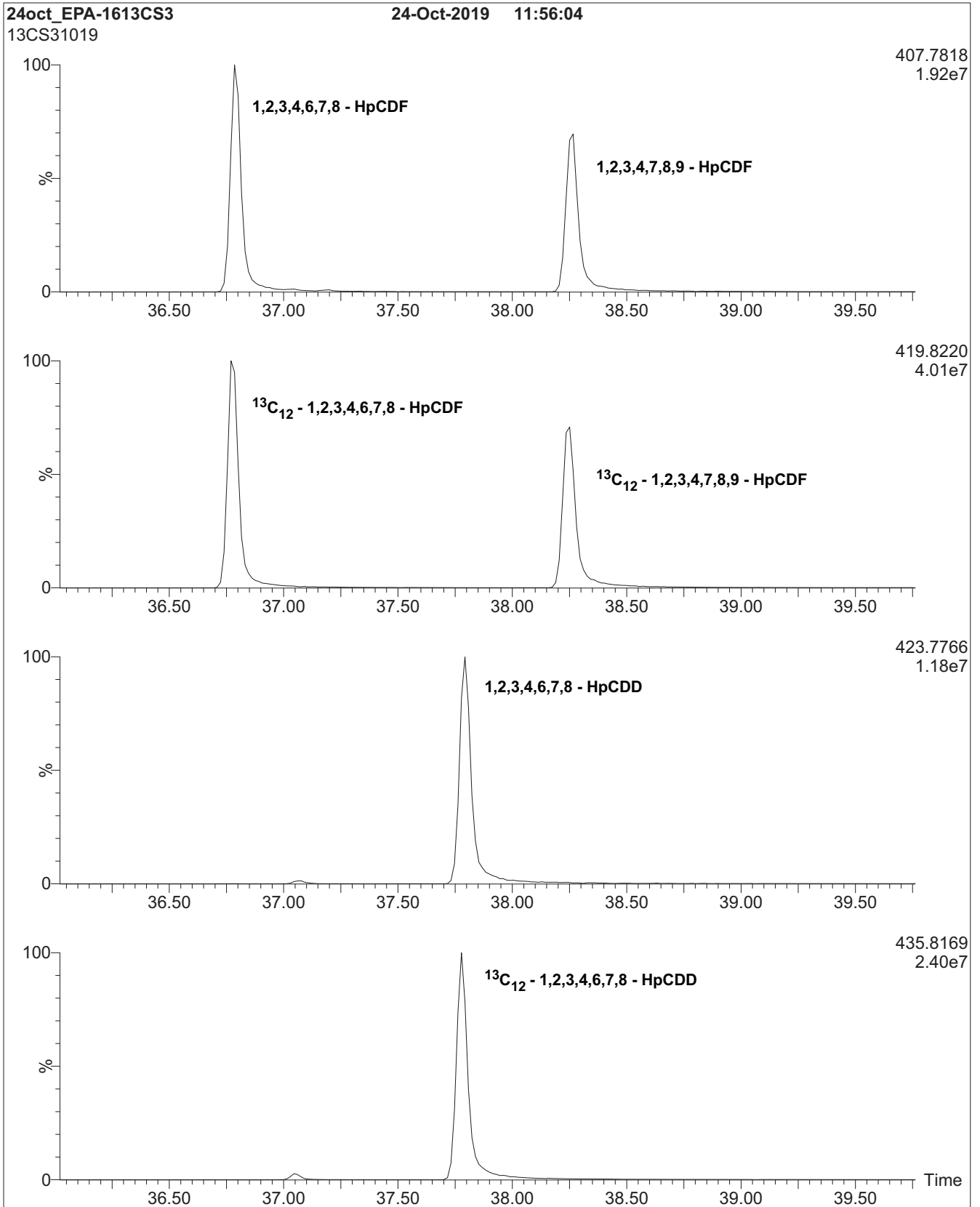
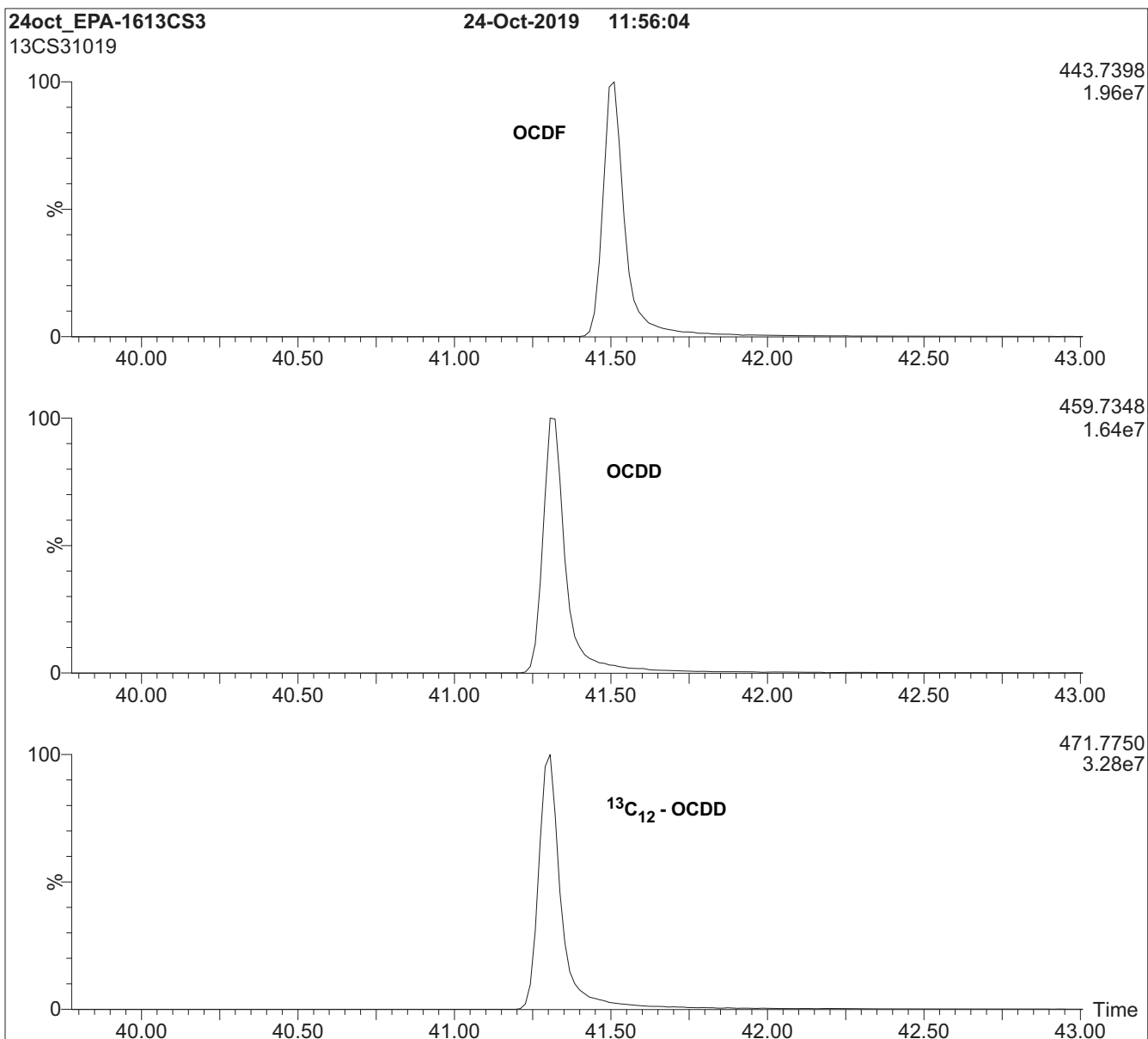


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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)

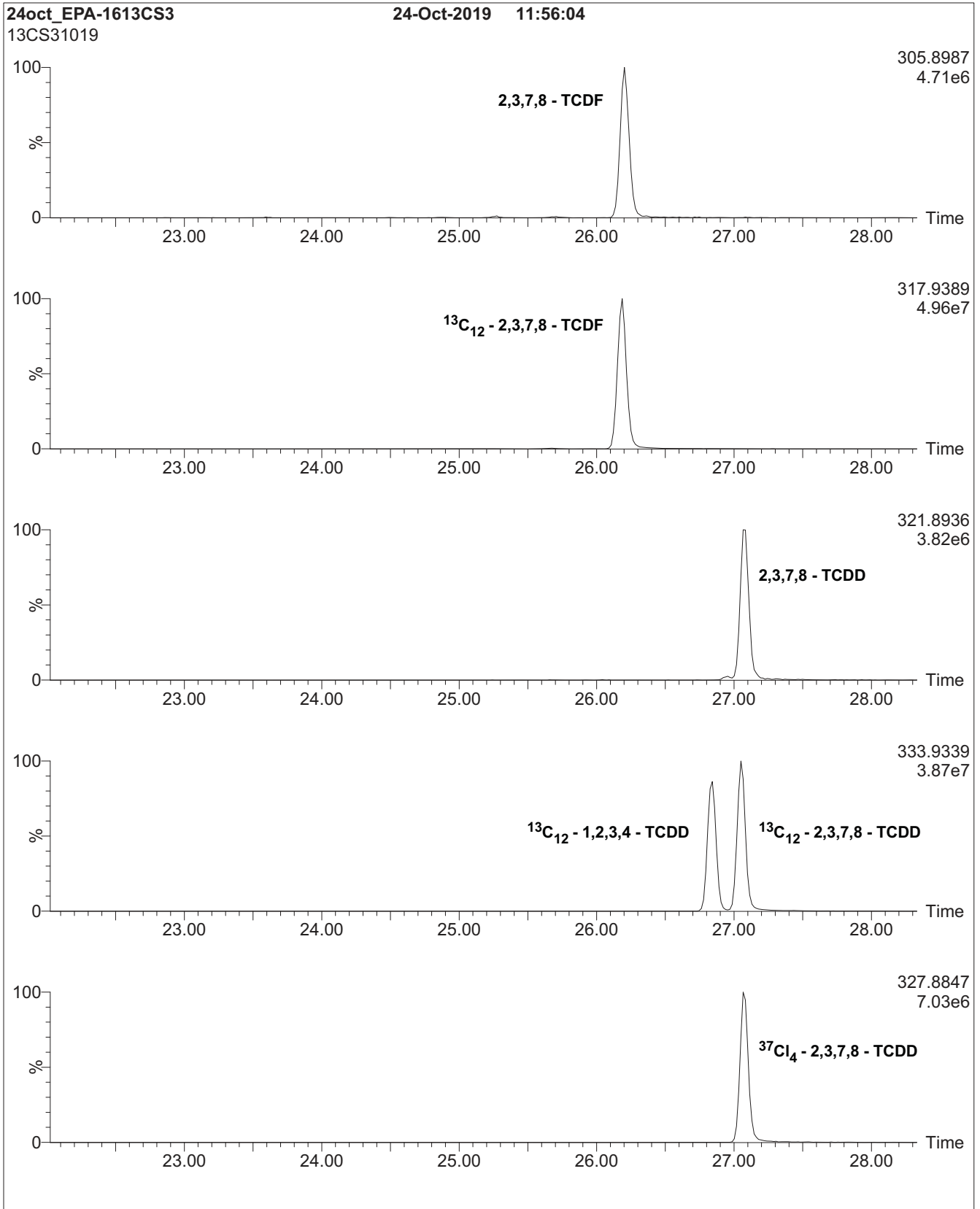


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

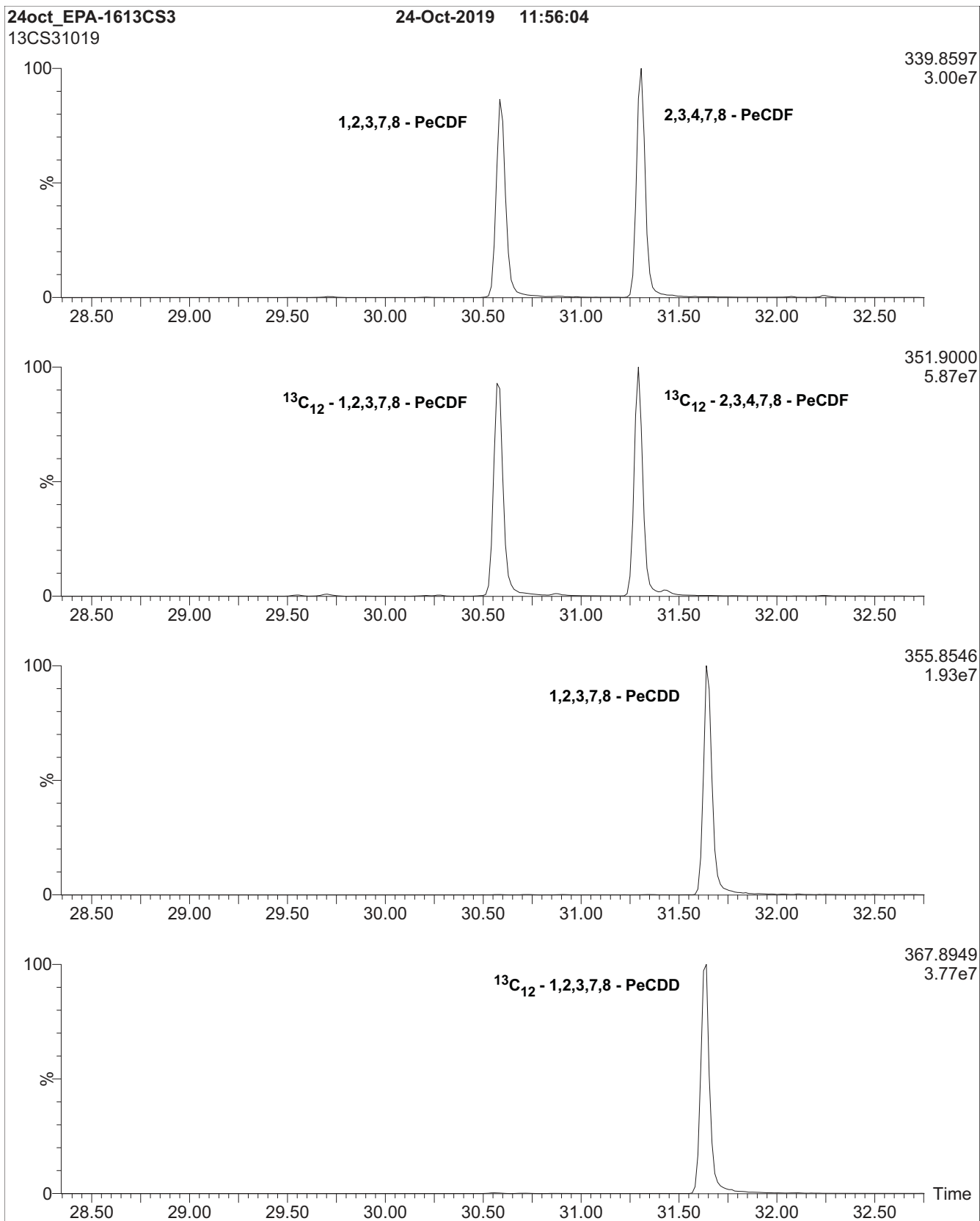


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

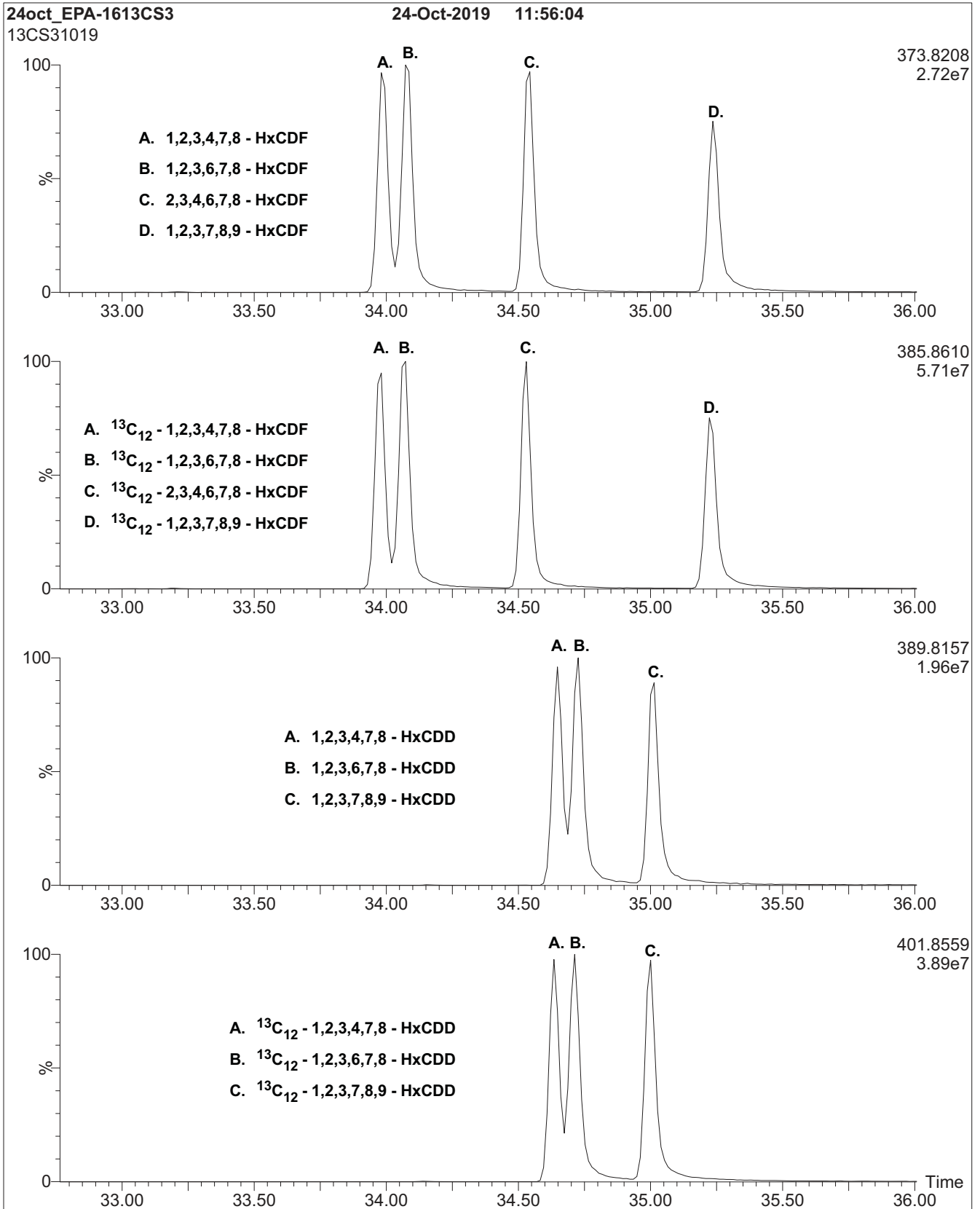


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

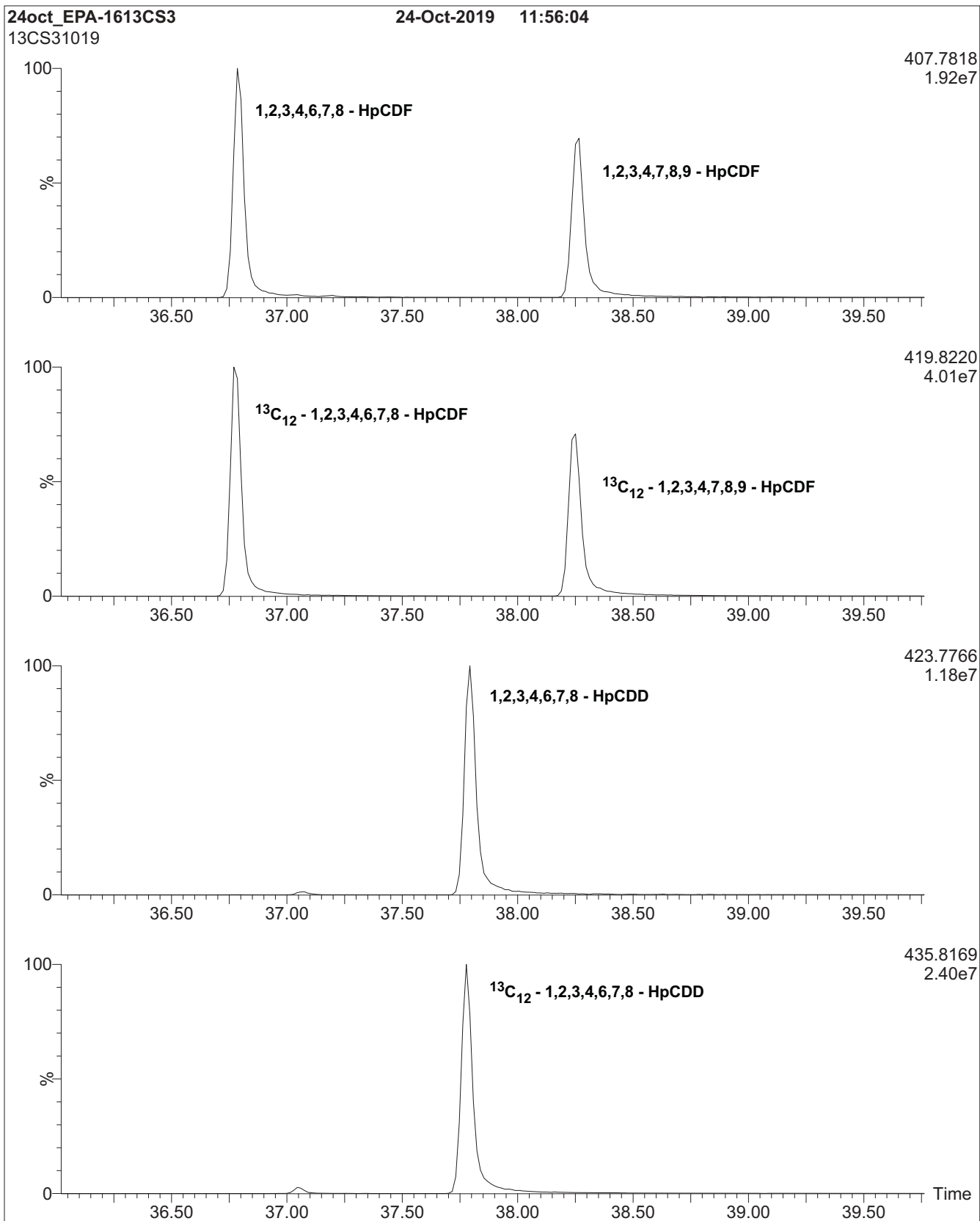
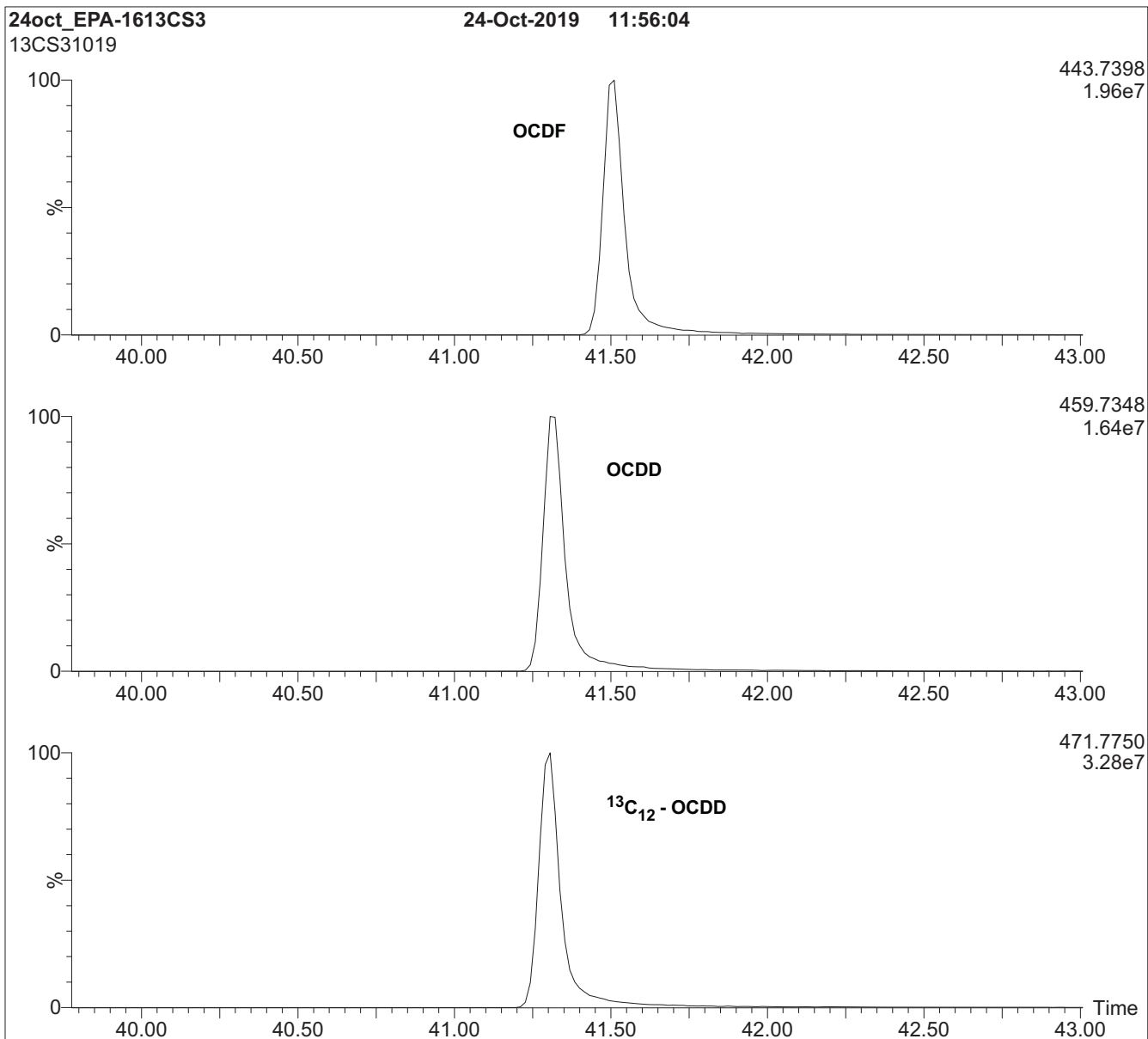


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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

1005458
1613 CS4 CAL STD
Expires 10/24/2026
<i>Prepared By Joshua Rains 6/23/2020</i>

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native (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)

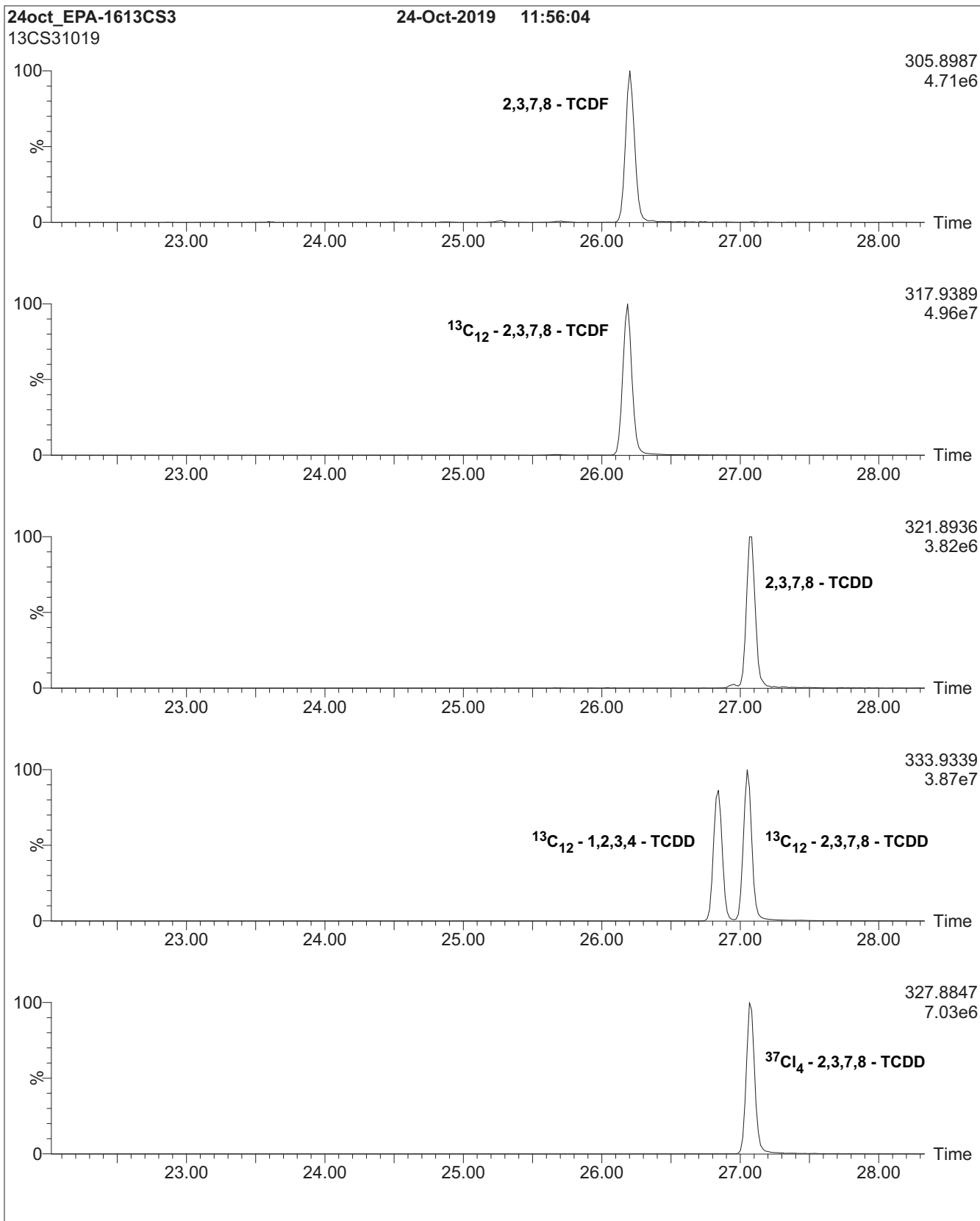


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

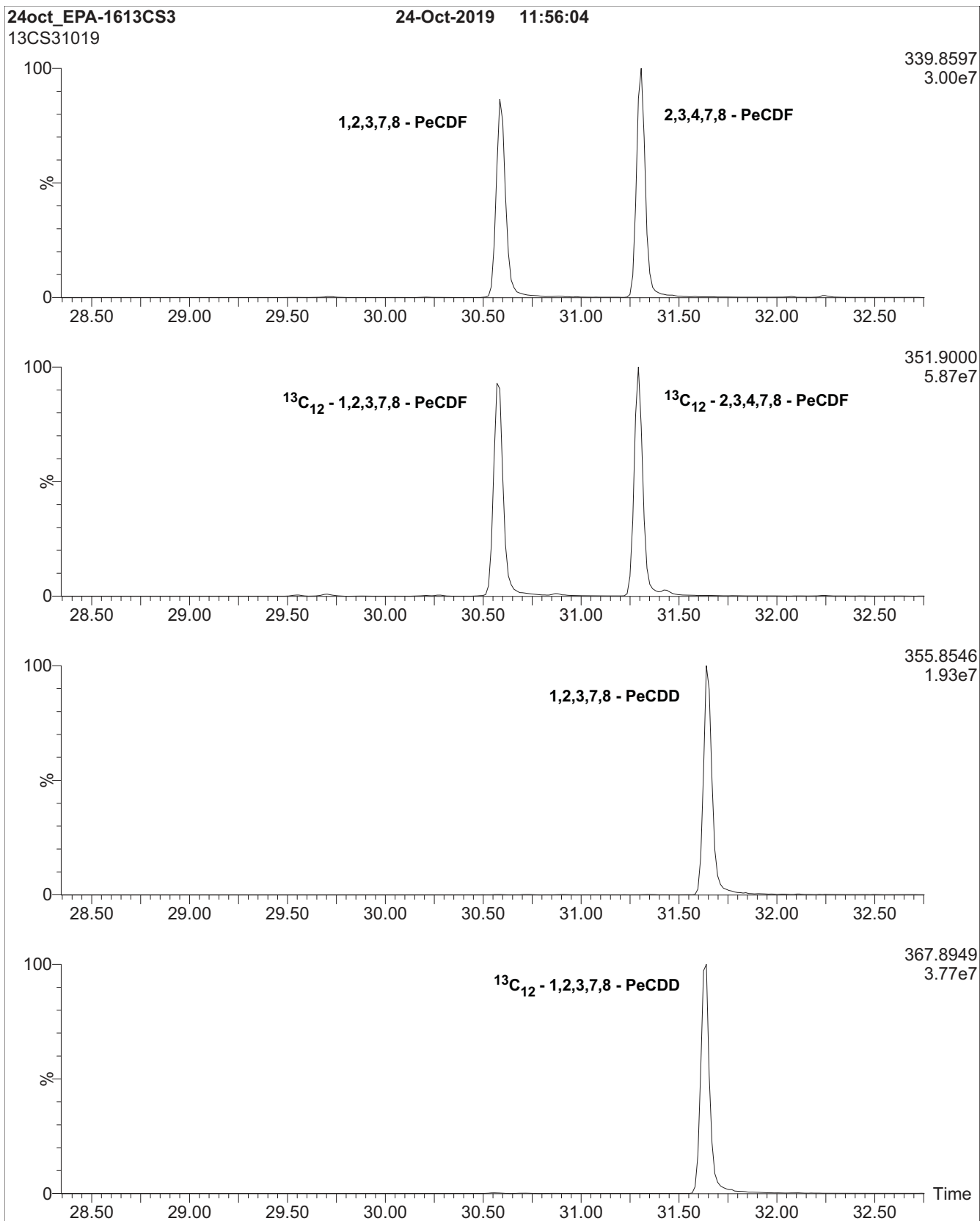


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

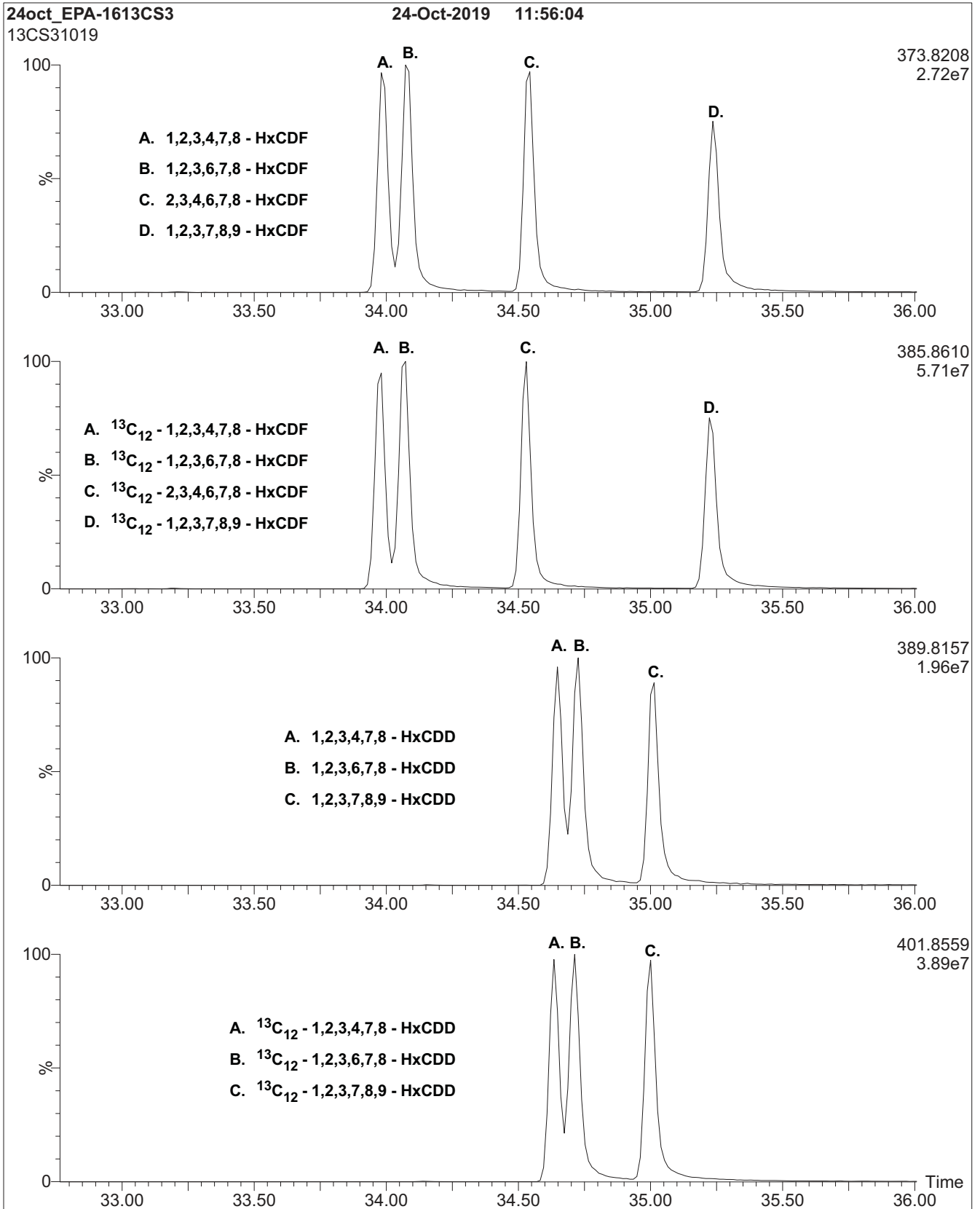


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

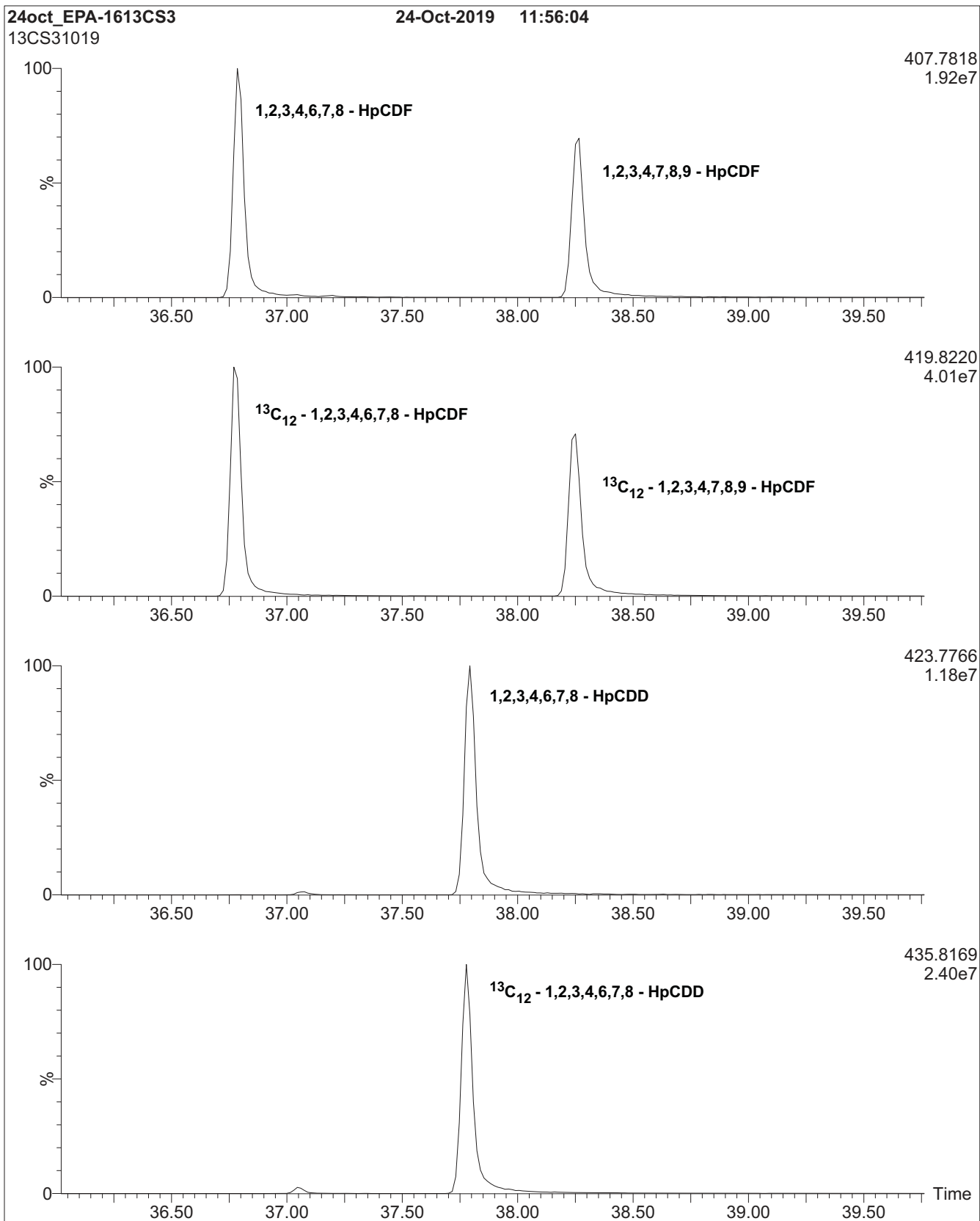
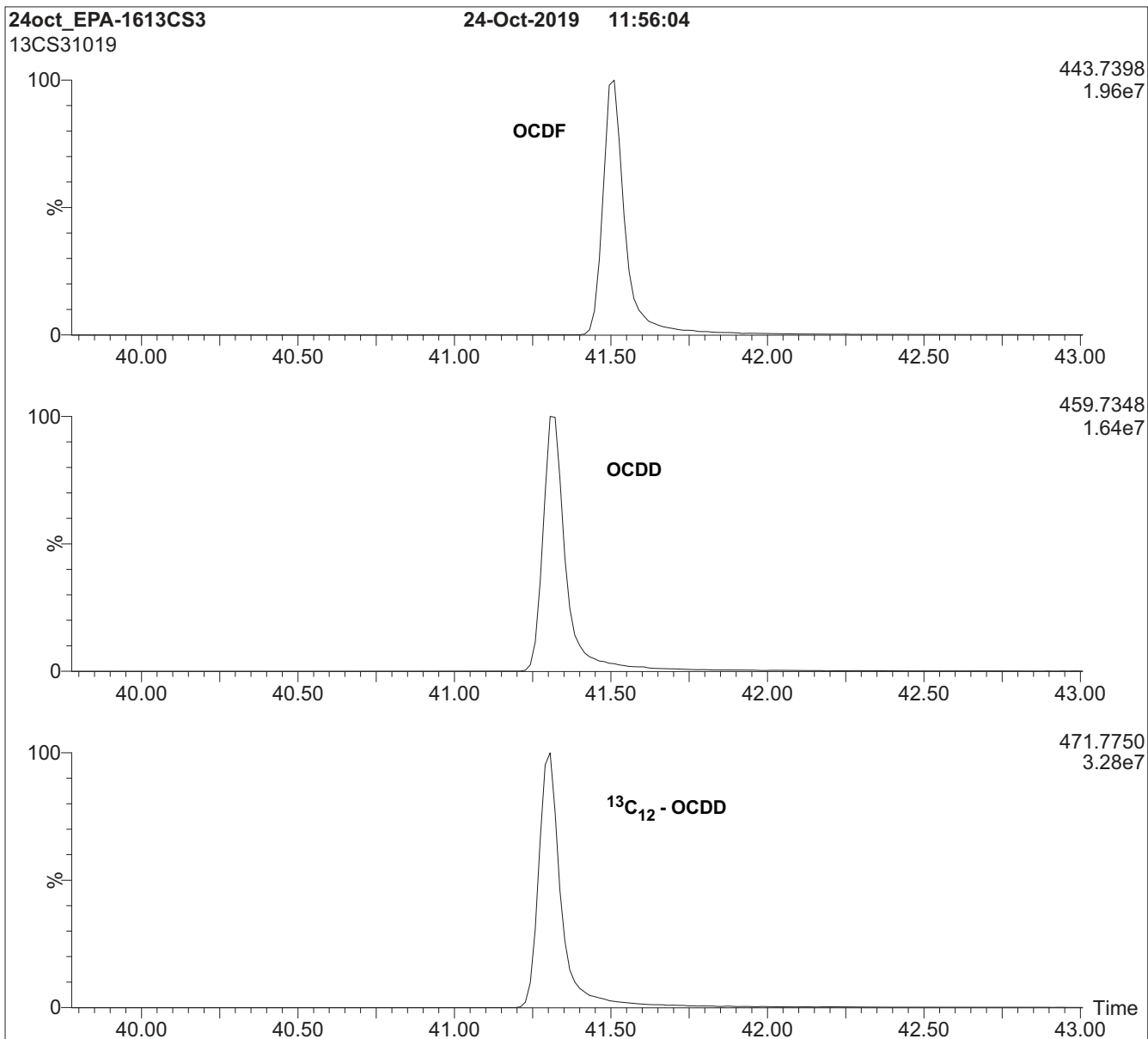


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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)

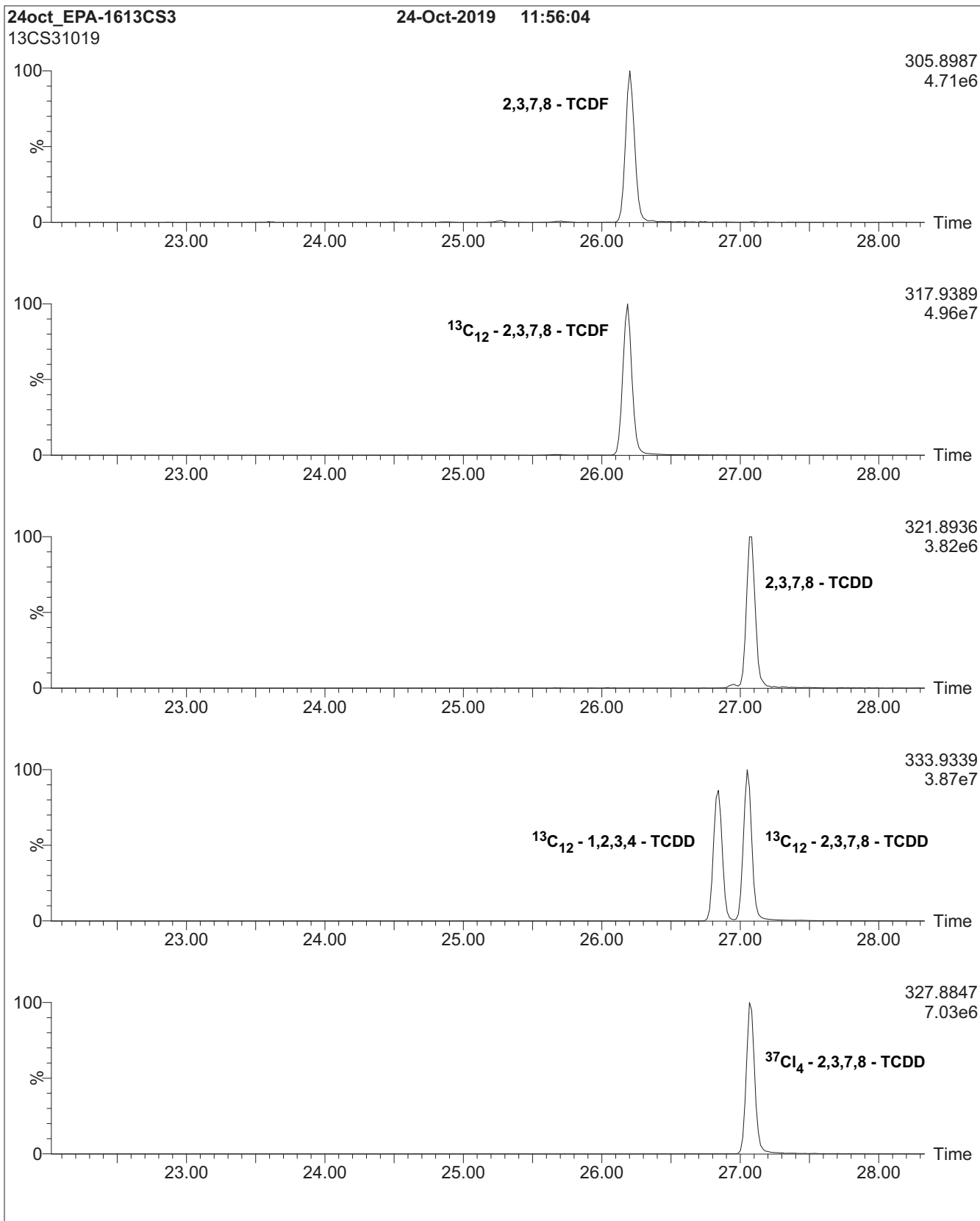


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

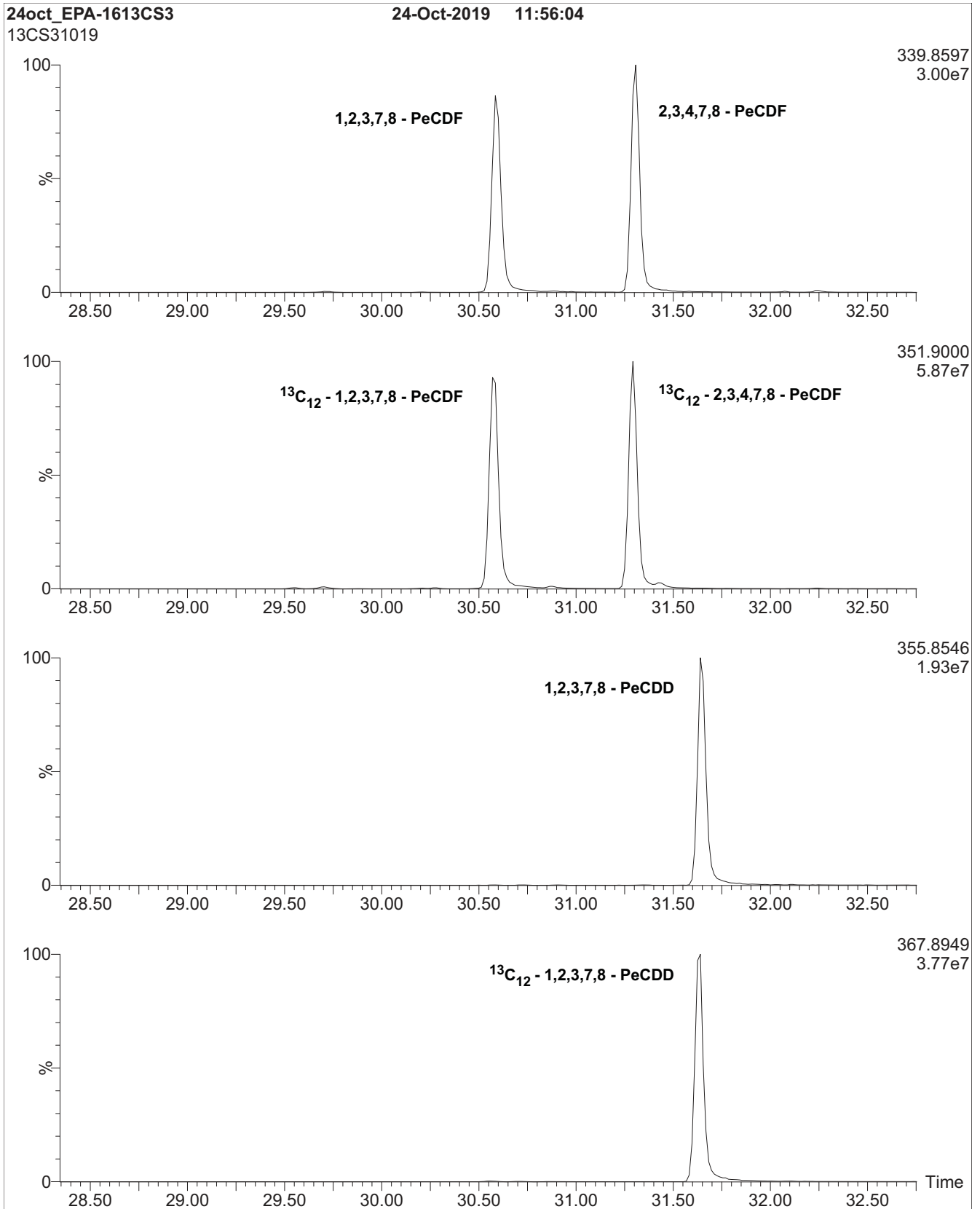


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

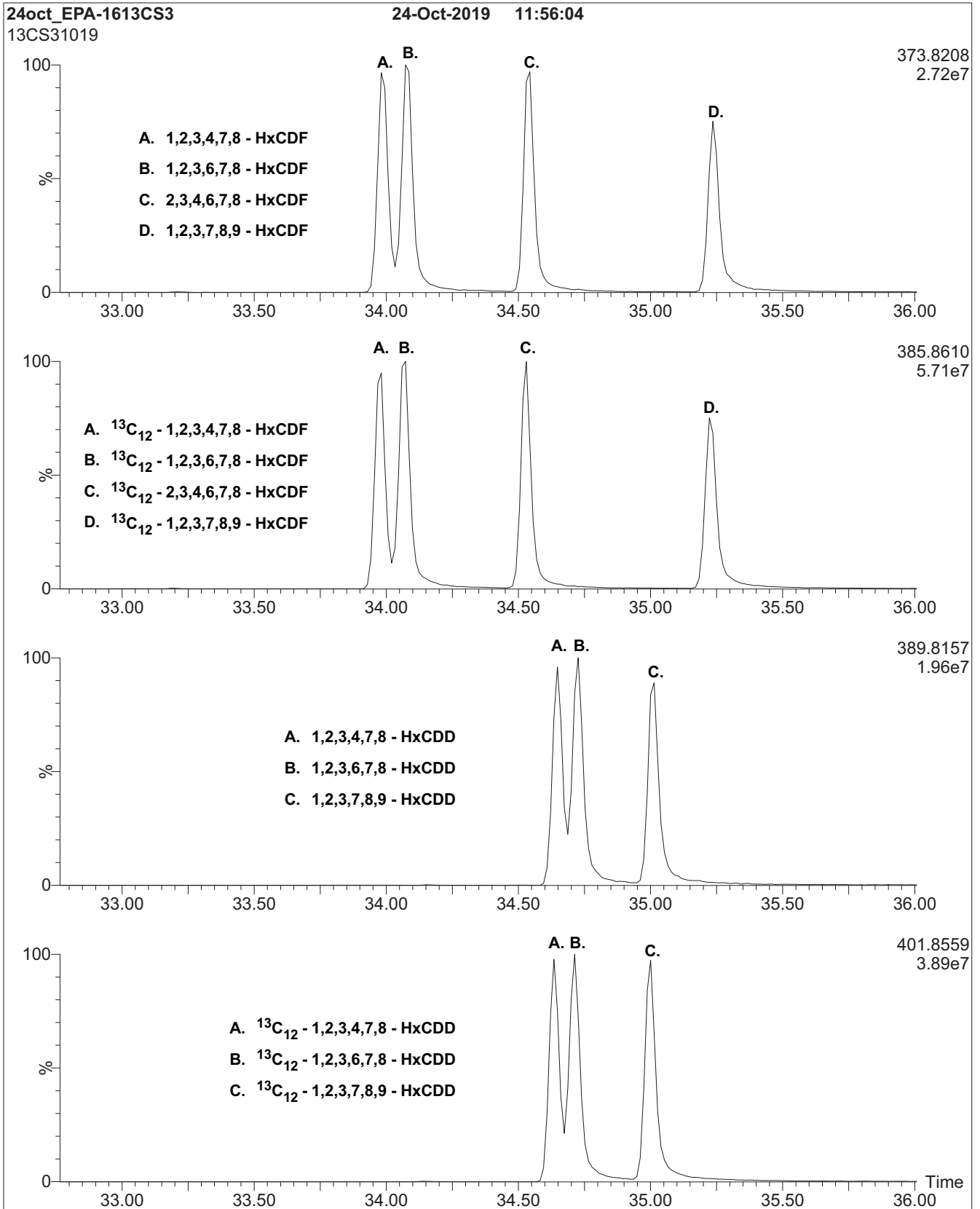


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

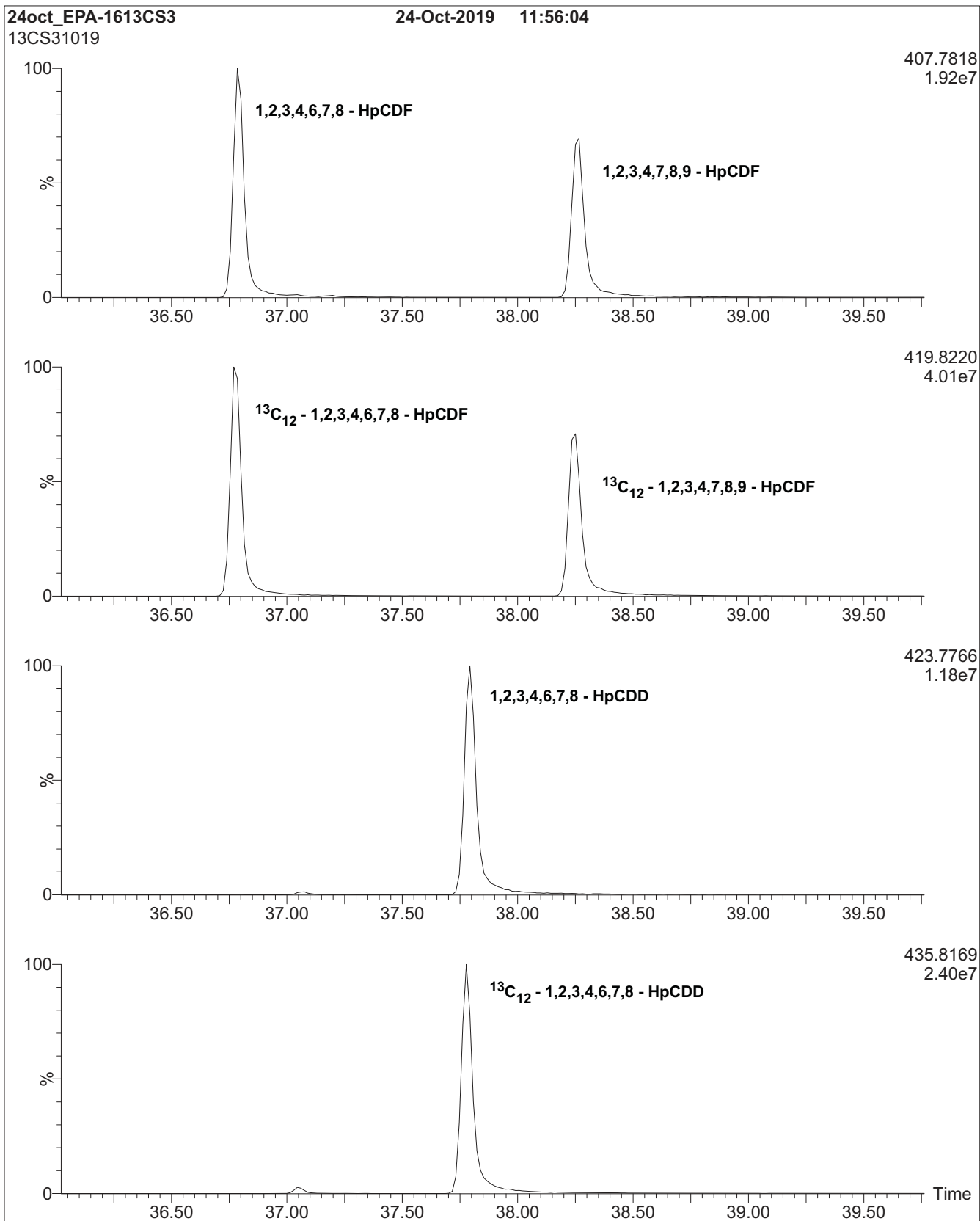
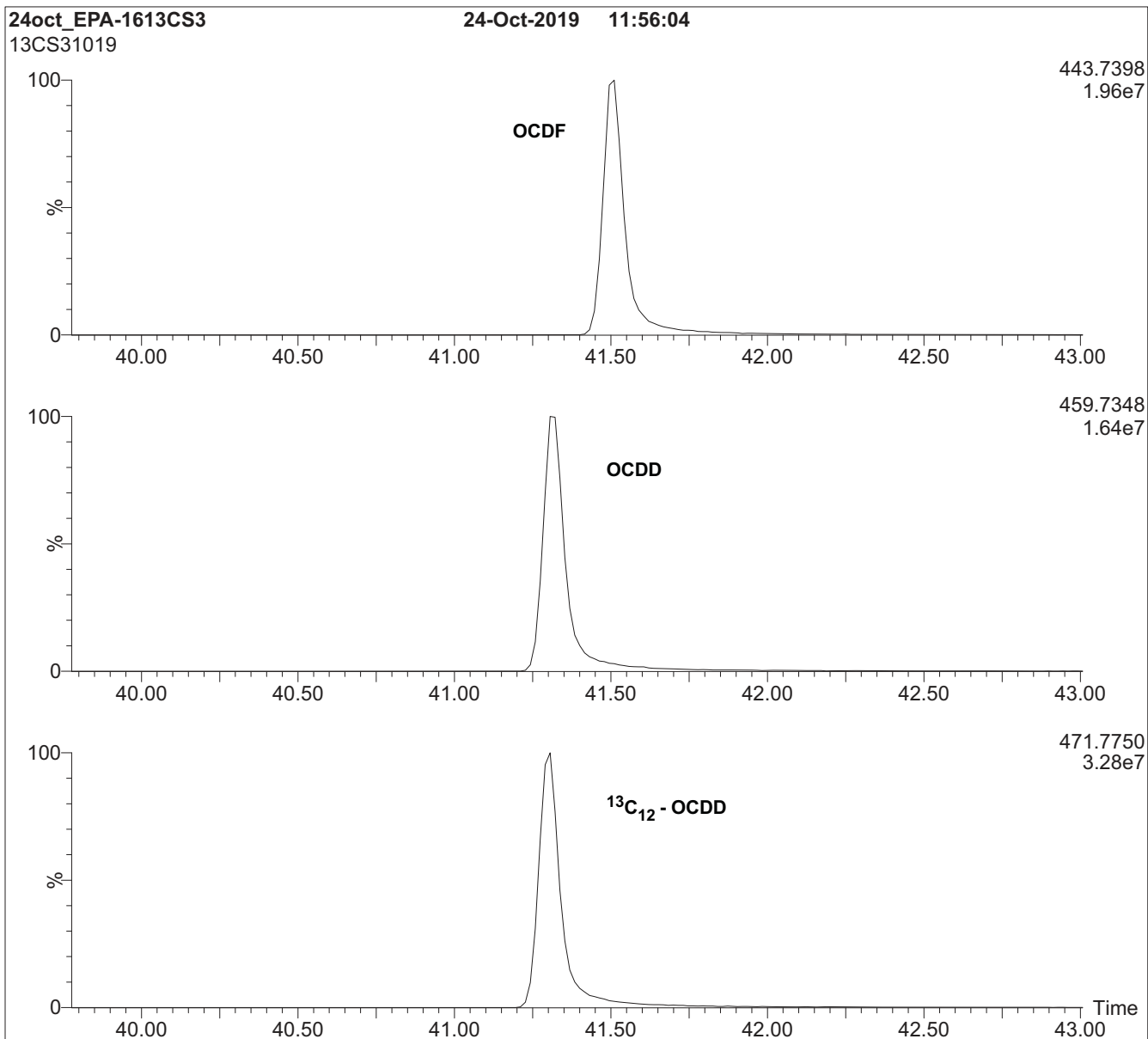


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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)

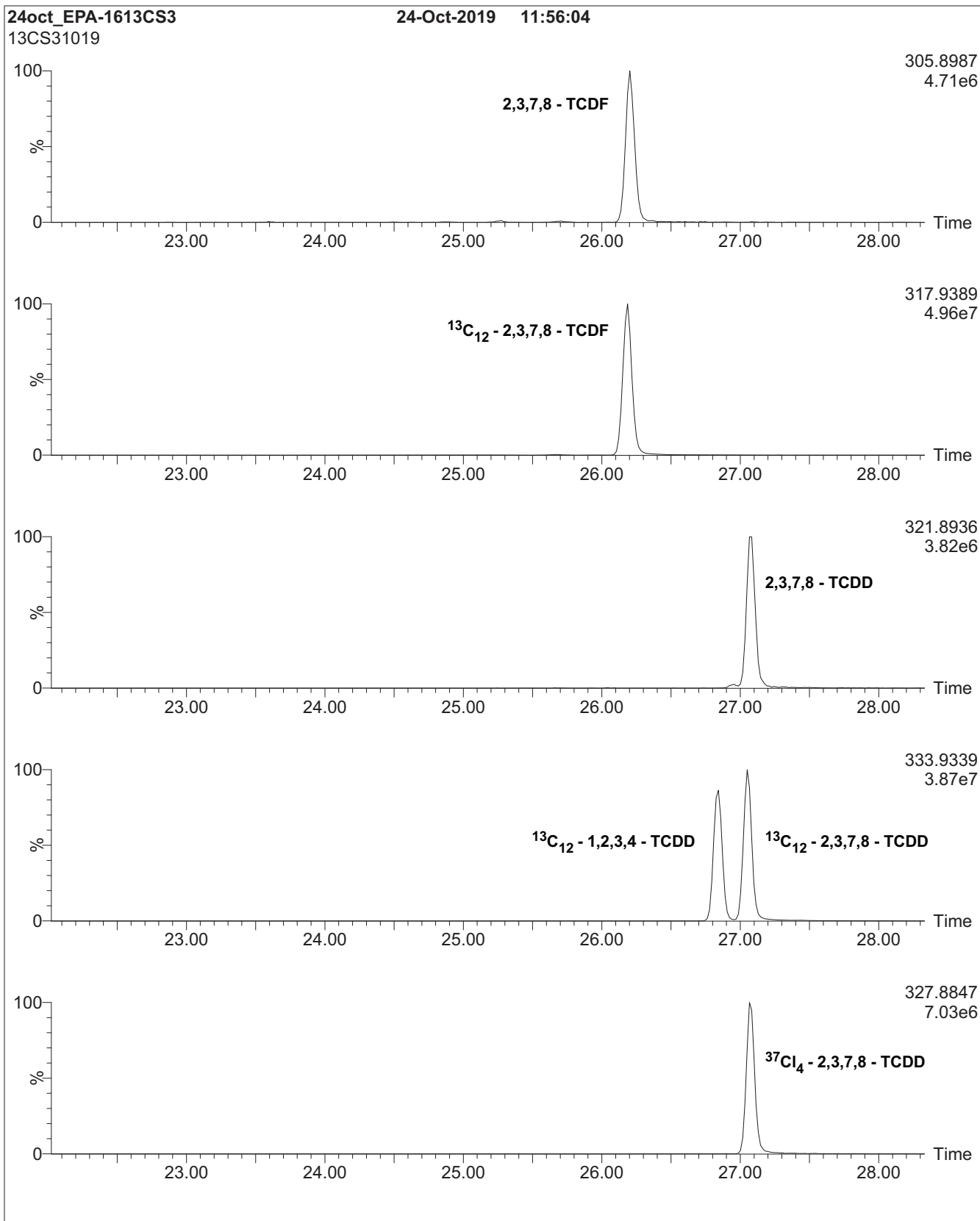


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

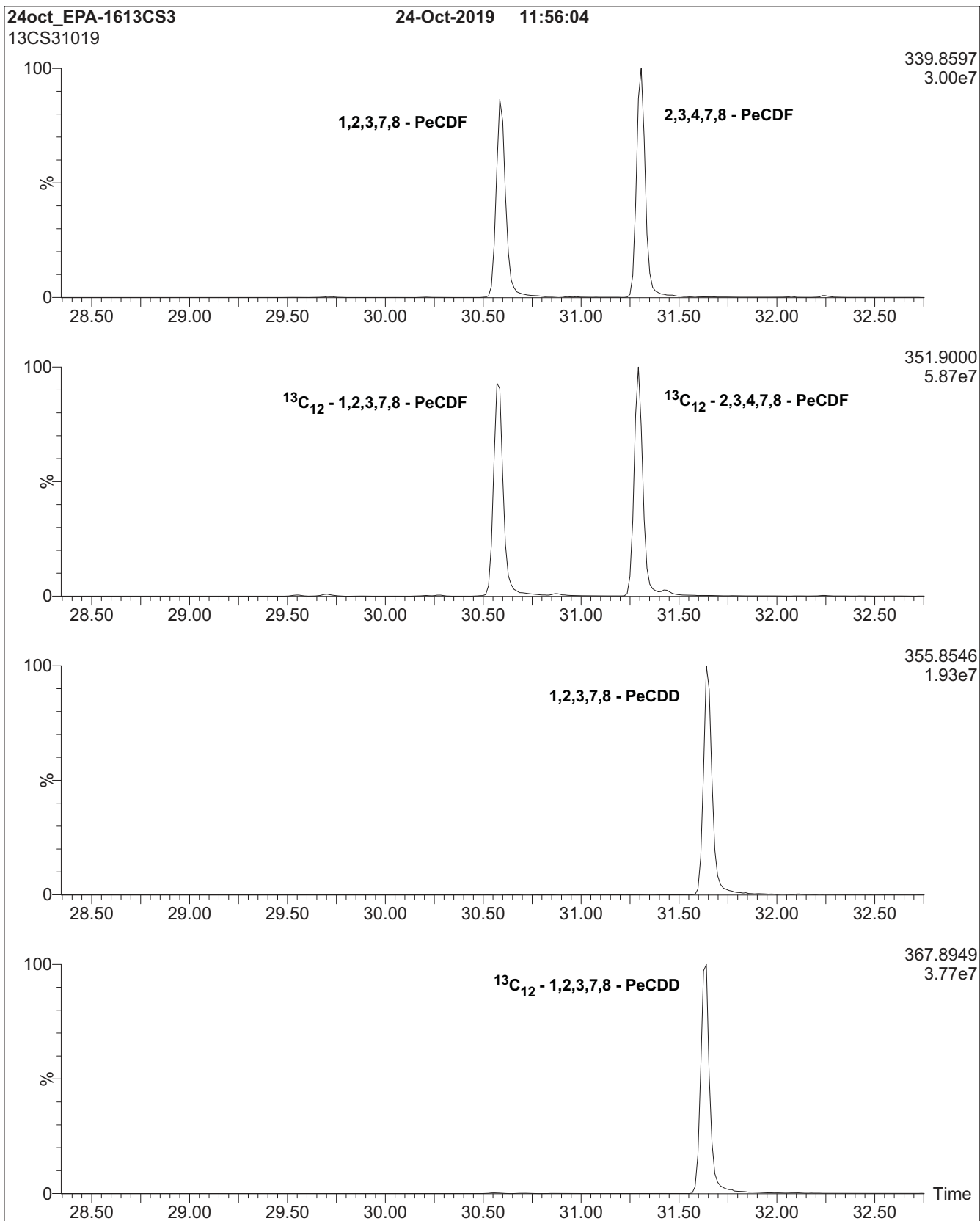


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

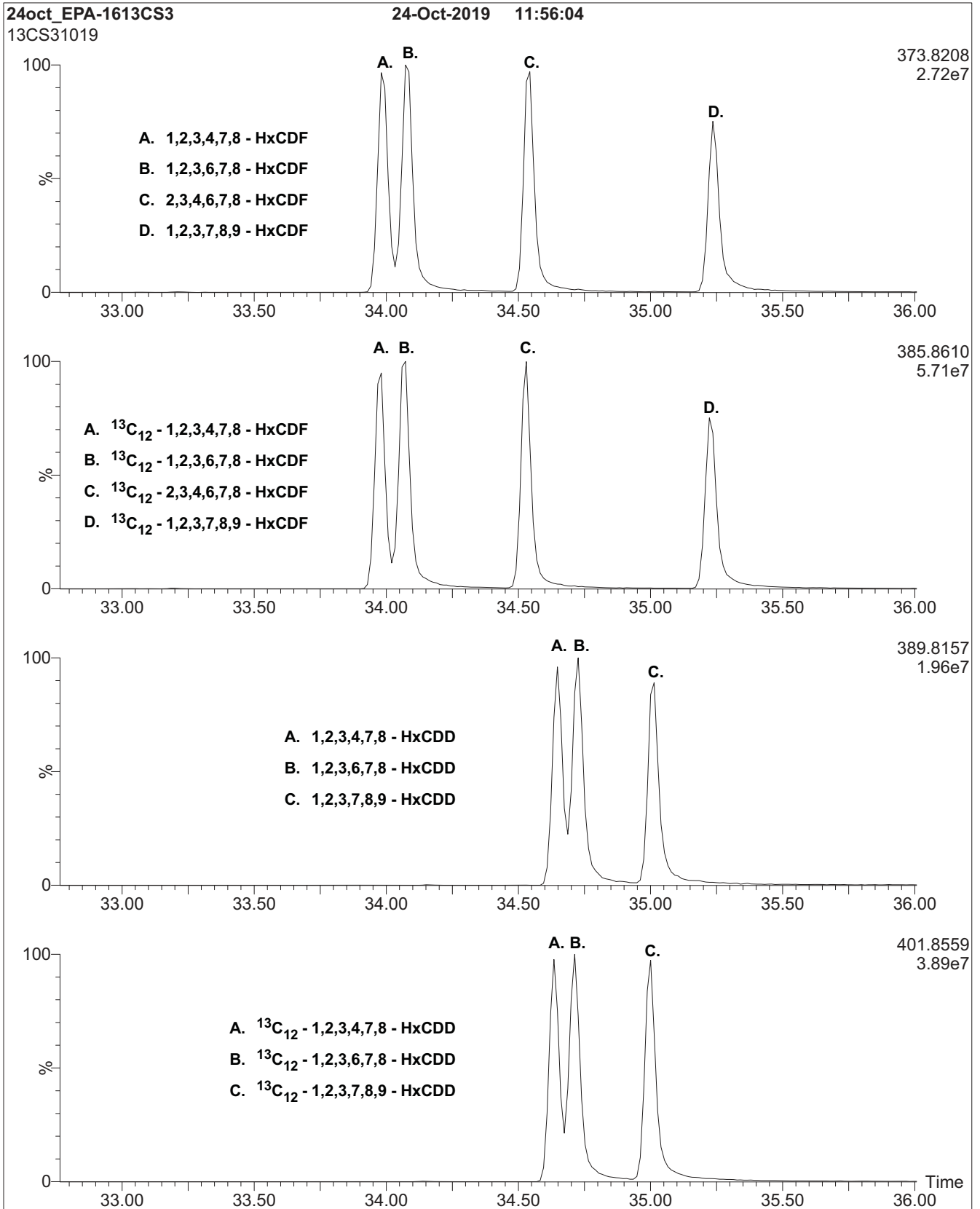


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)

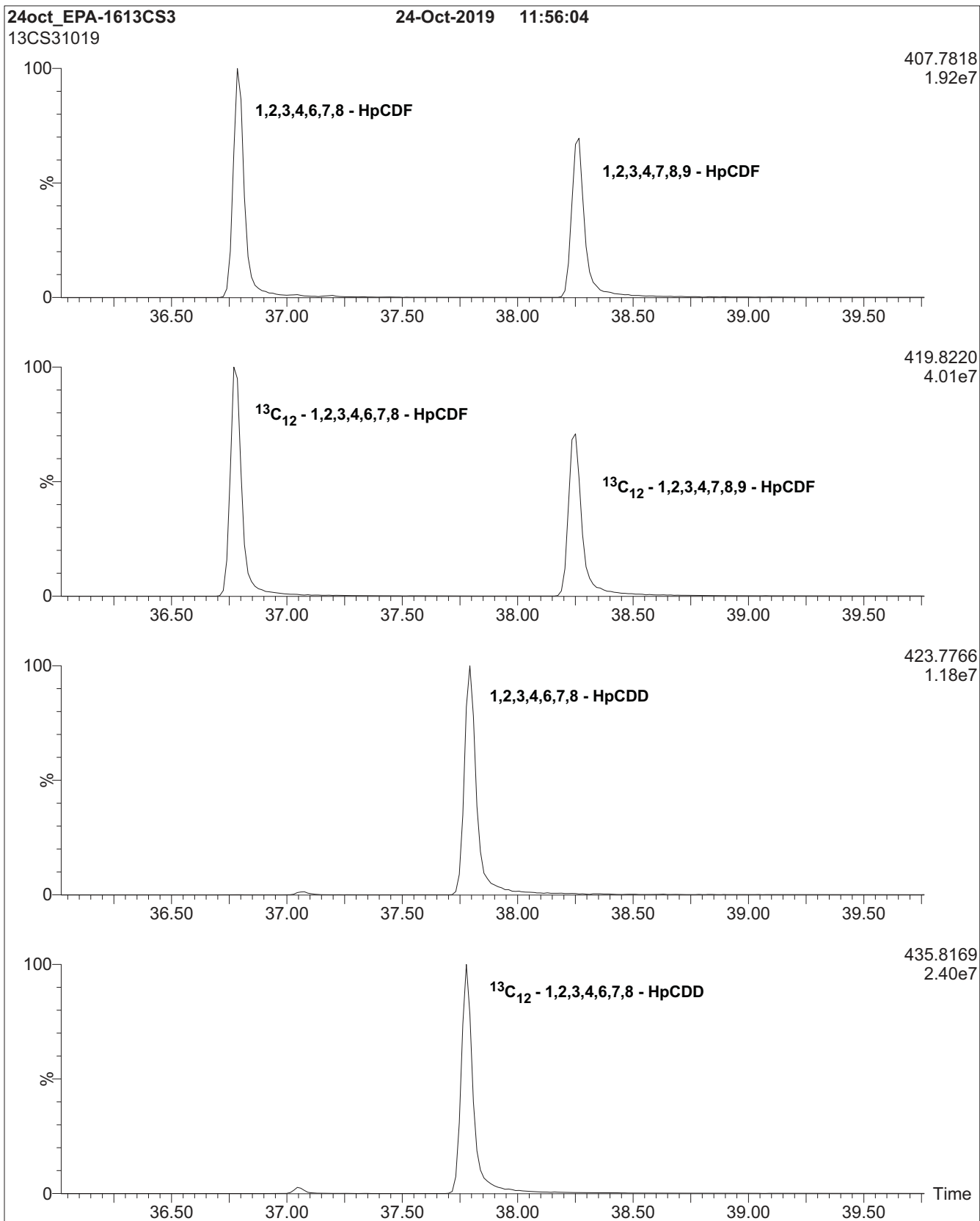
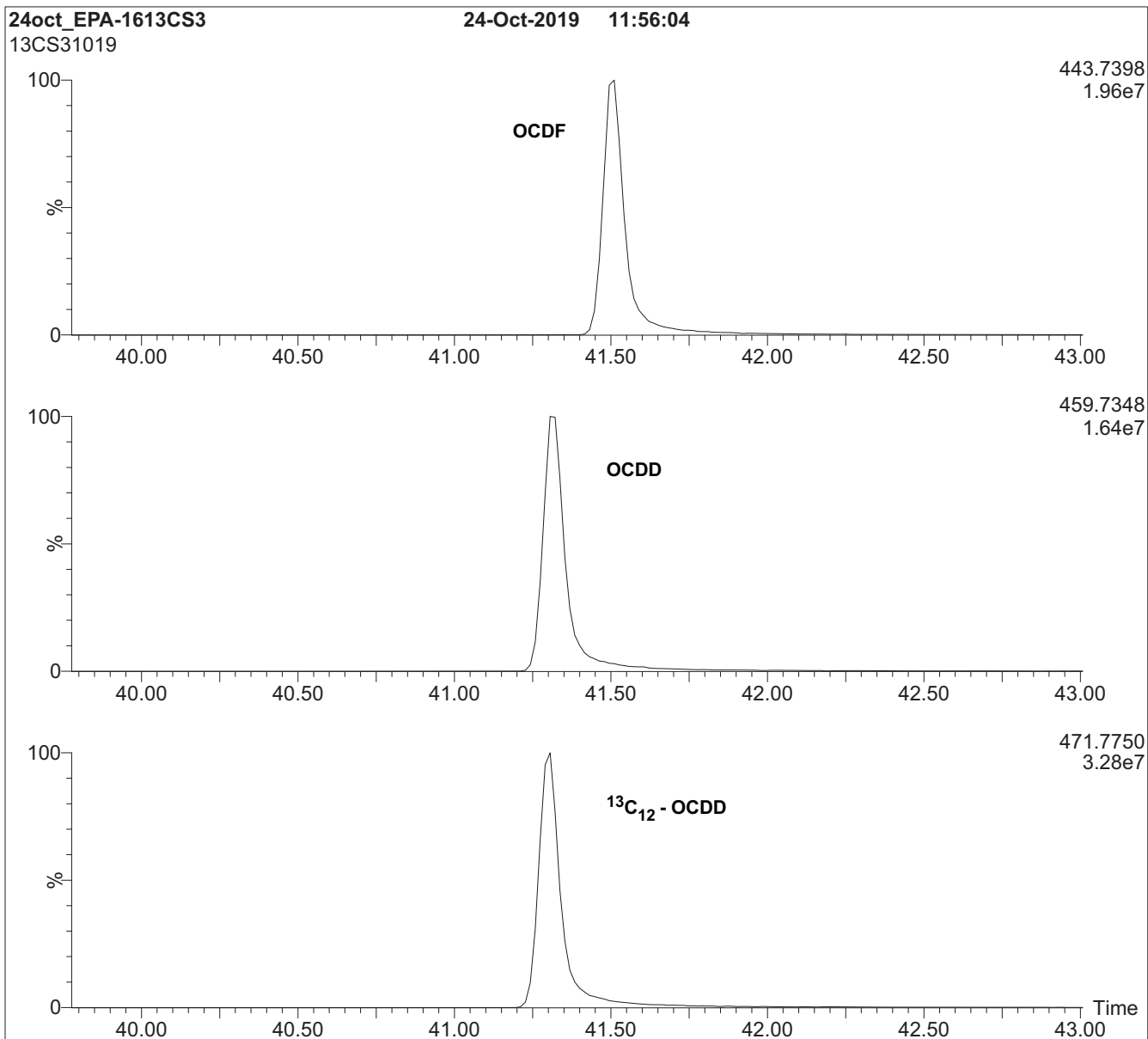


Figure 1: EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)



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)

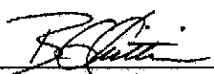
ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

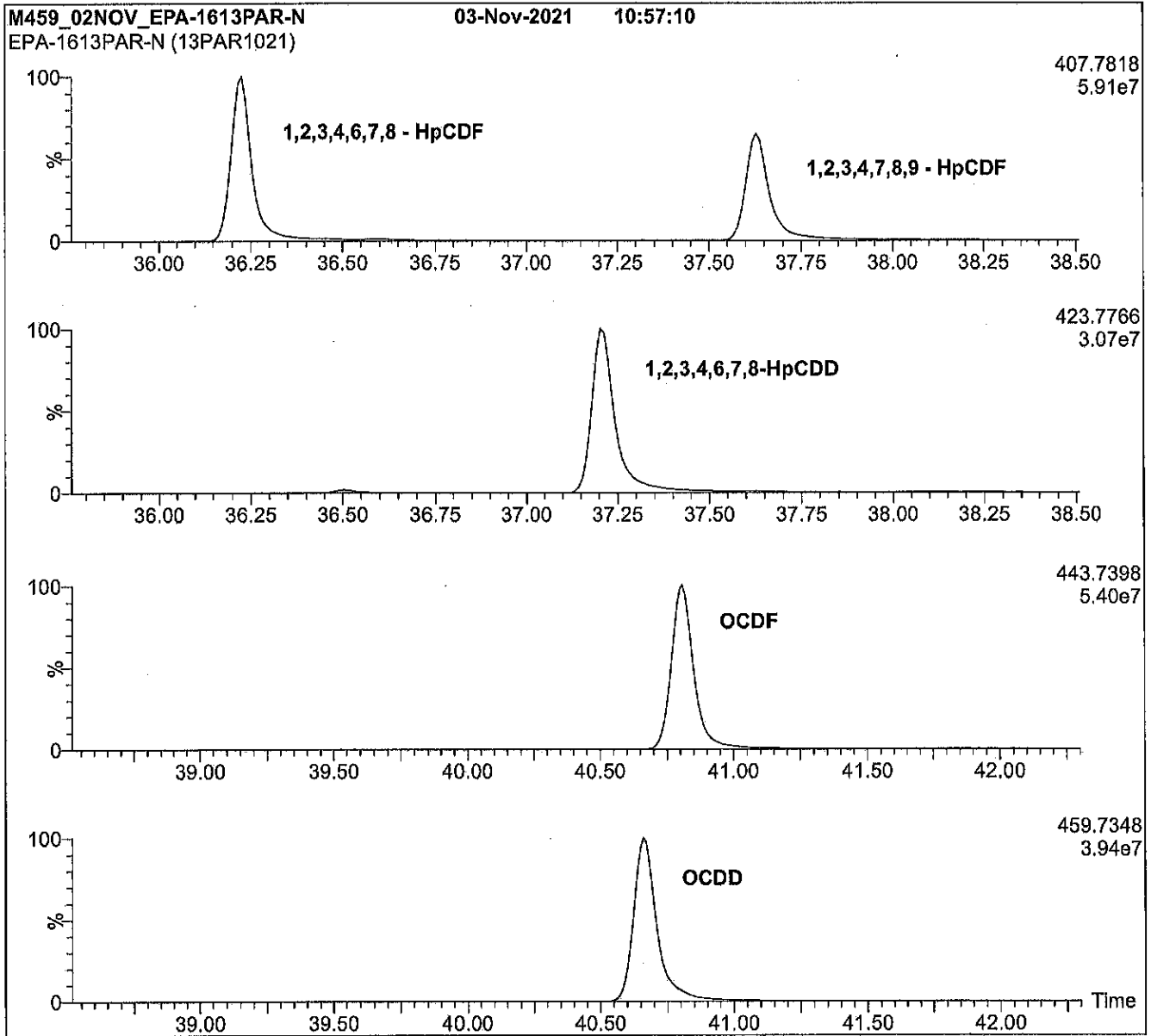
Table A: EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)

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**

<u>PRODUCT CODE:</u>	EPA-1613PAR
<u>LOT NUMBER:</u>	13PAR1021
<u>SOLVENT(S):</u>	Nonane/Toluene
<u>DATE PREPARED:</u> (mm/dd/yyyy)	10/25/2021
<u>LAST TESTED:</u> (mm/dd/yyyy)	11/03/2021
<u>EXPIRY DATE:</u> (mm/dd/yyyy)	11/03/2028
<u>RECOMMENDED STORAGE:</u>	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)

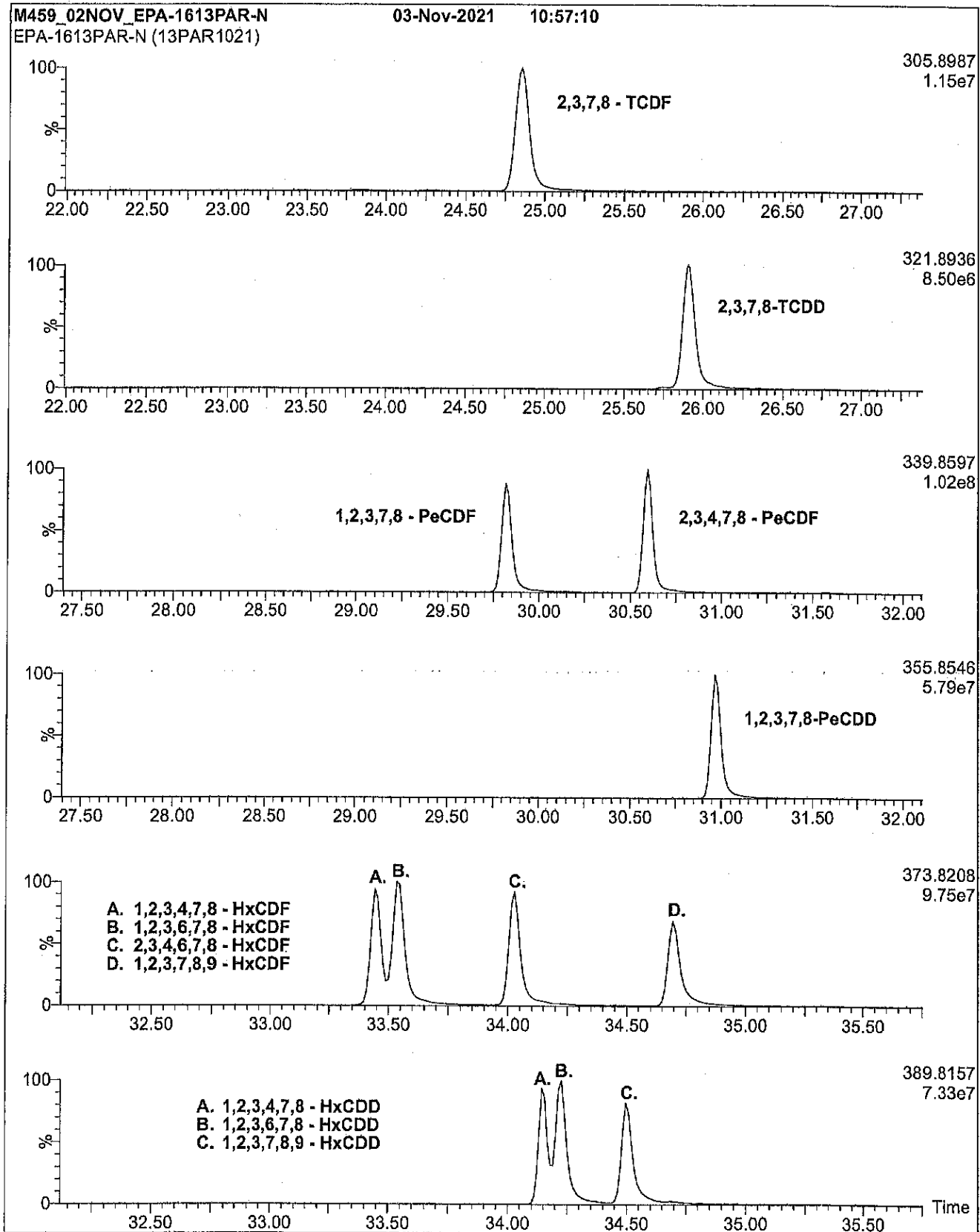
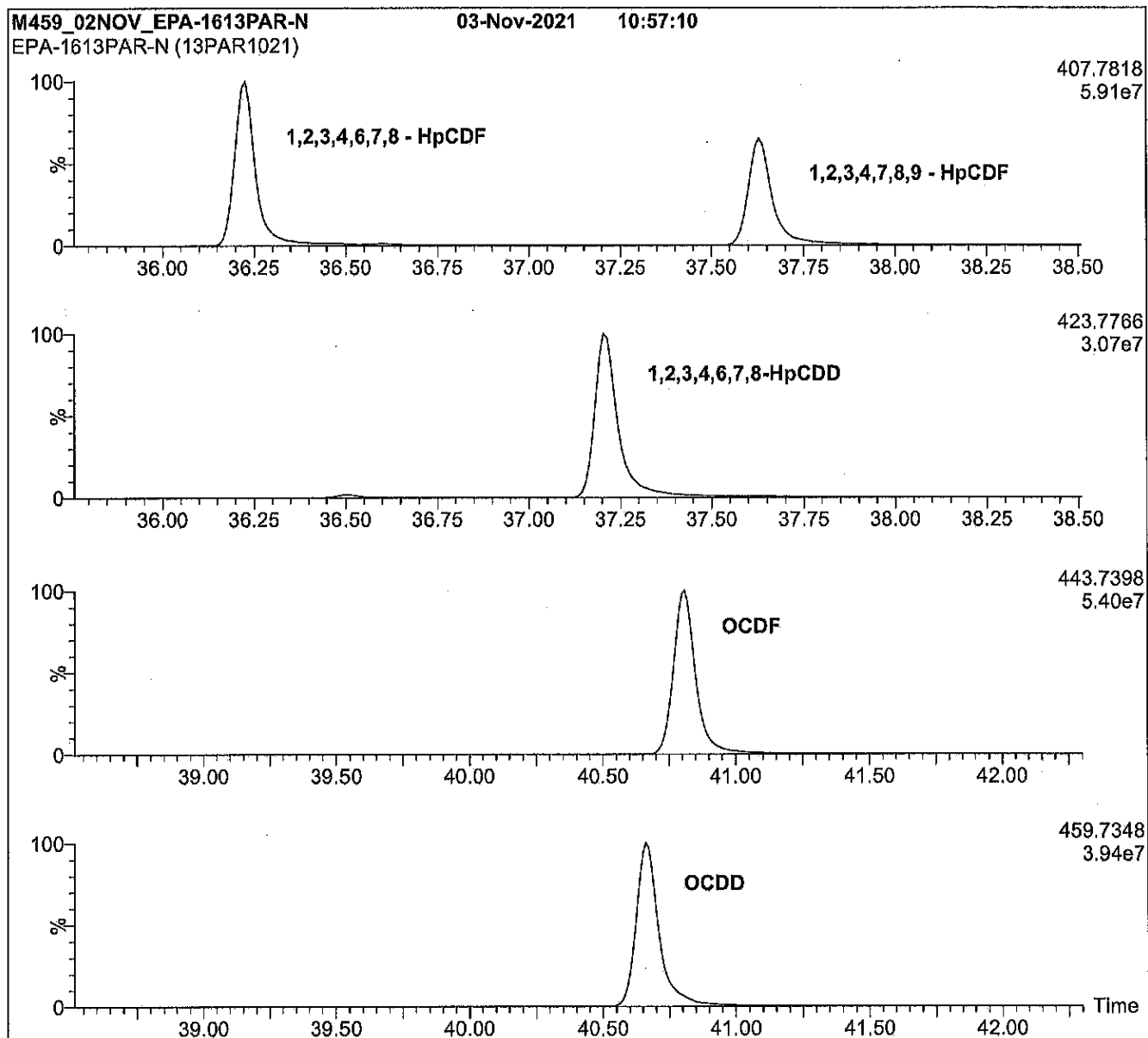


Figure 1: EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 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)



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

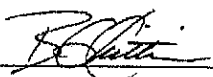
^a First/Last eluting isomer for the specified homologue group (see Table A for additional Window Definers).

^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)

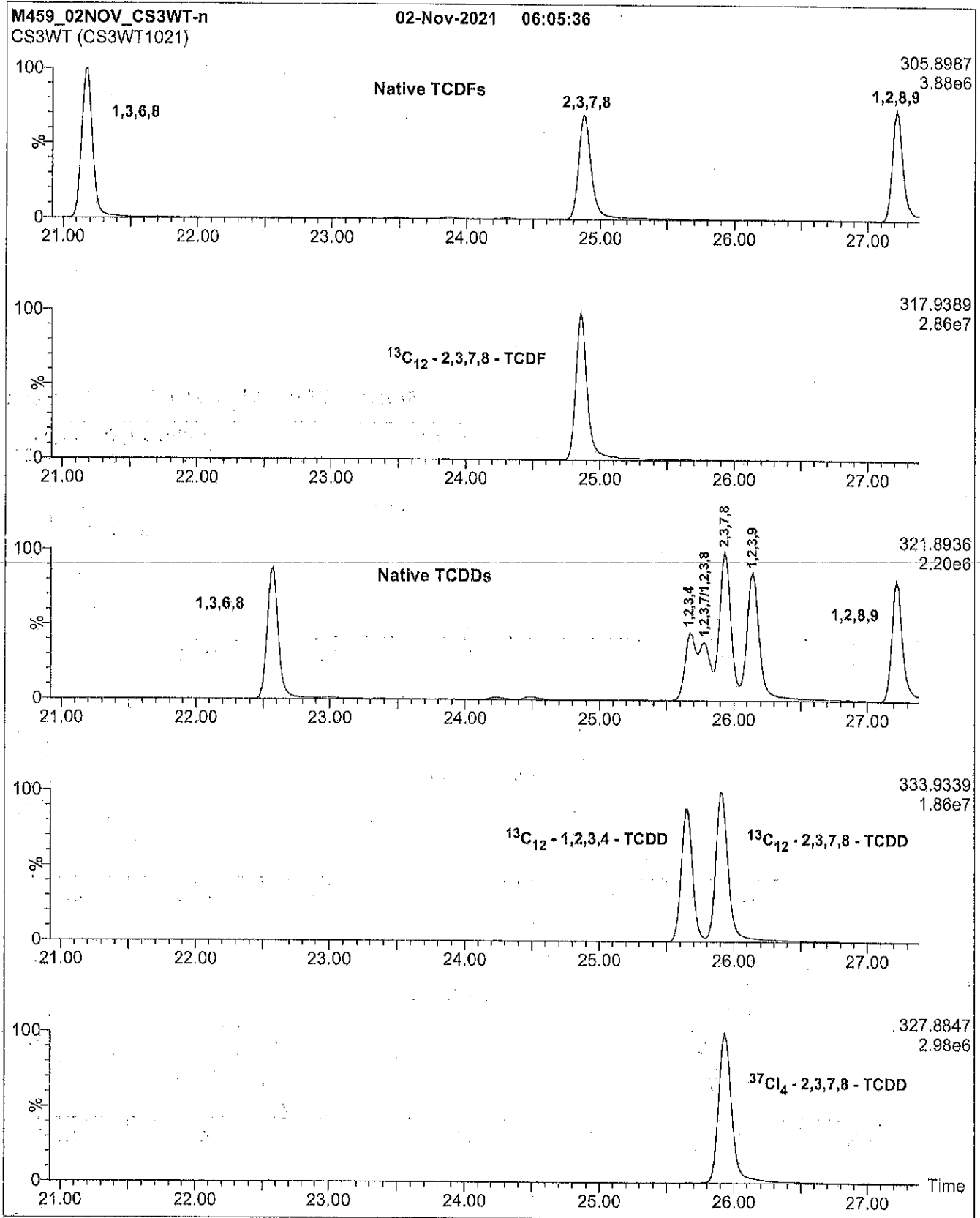


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

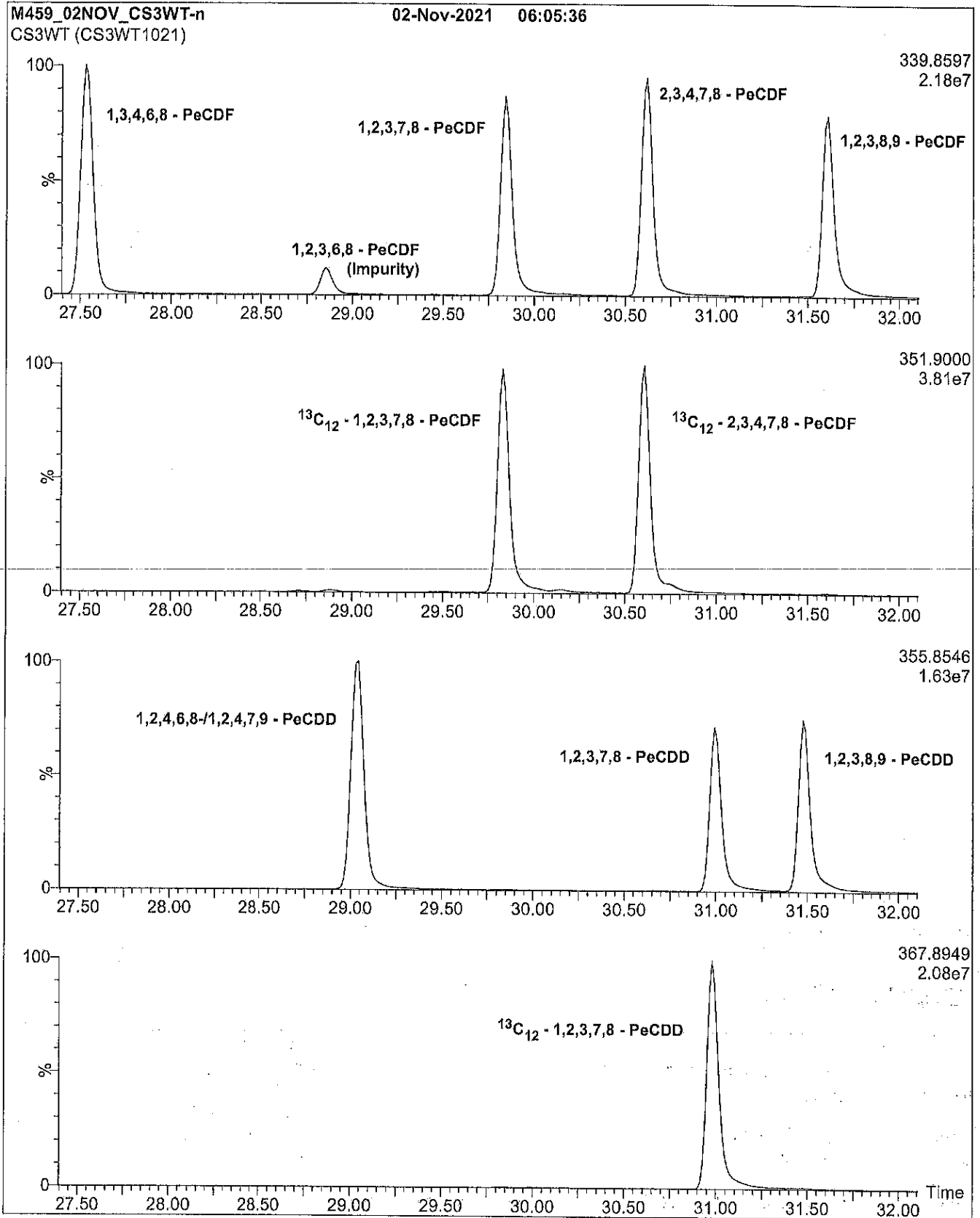


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

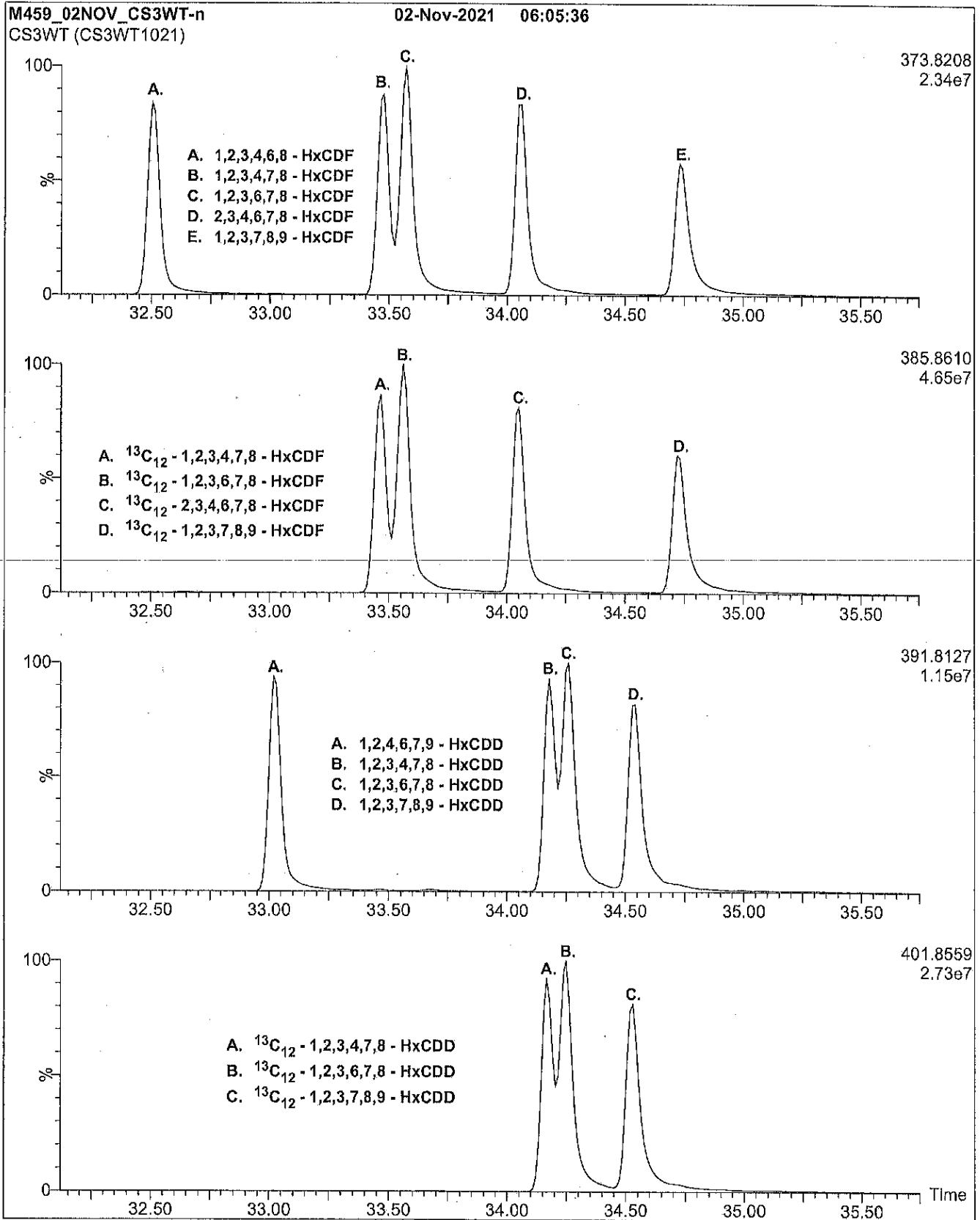


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)

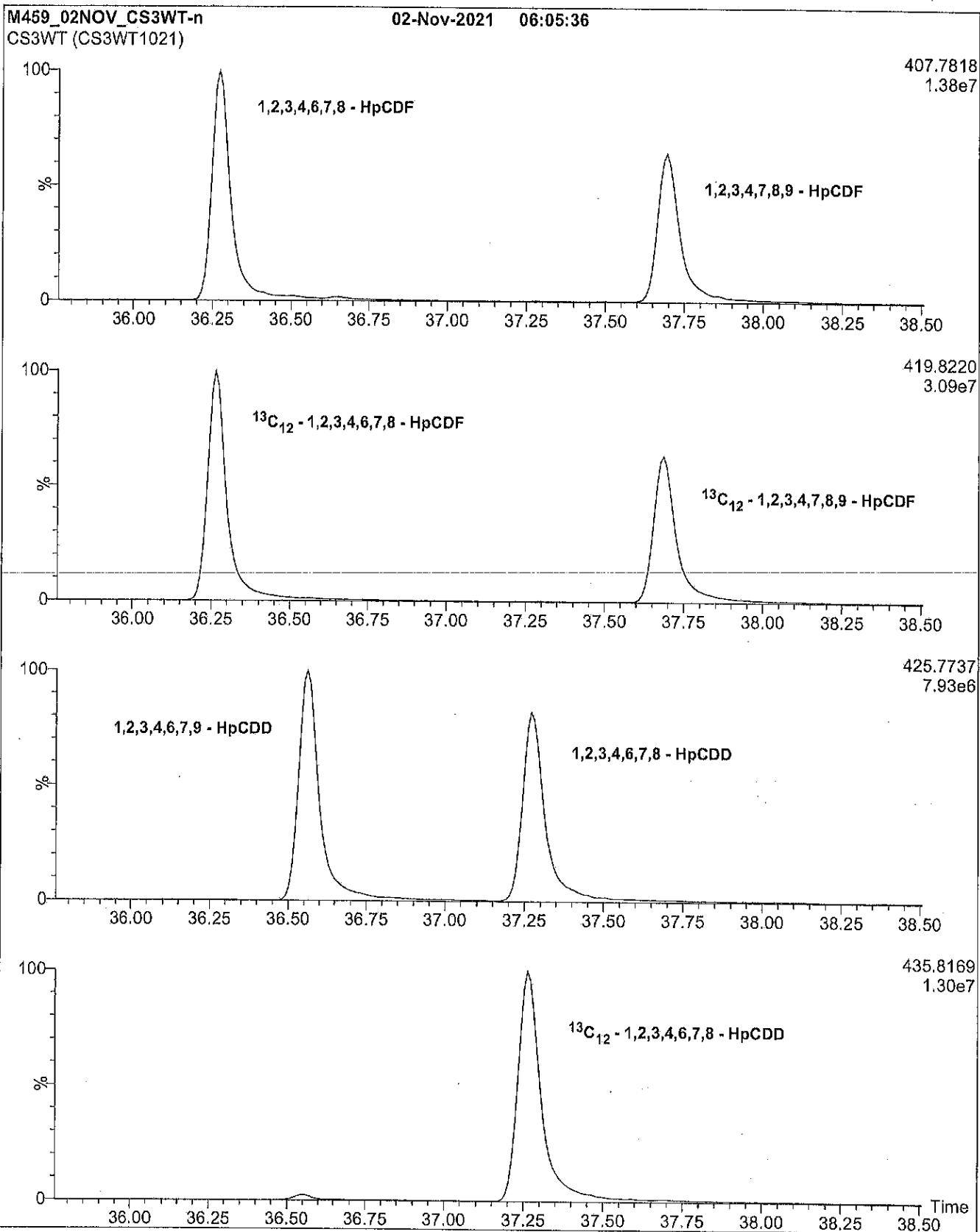
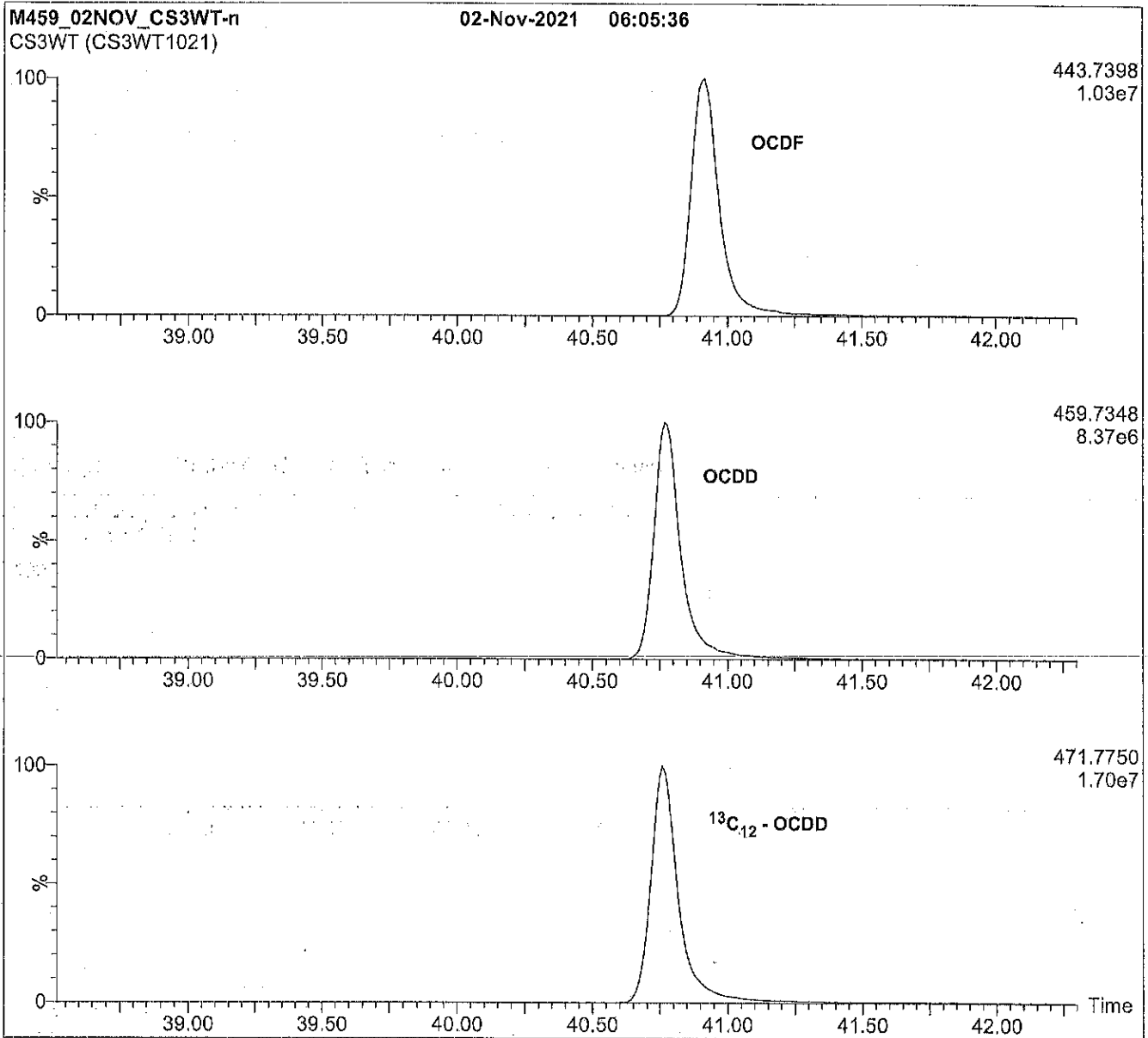


Figure 1: CS3WT; HRGC/HRMS Data (60 m DB-5 Column)



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	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-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

*K 9986
Recd. JK
10/27/22*

DESCRIPTION:

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.

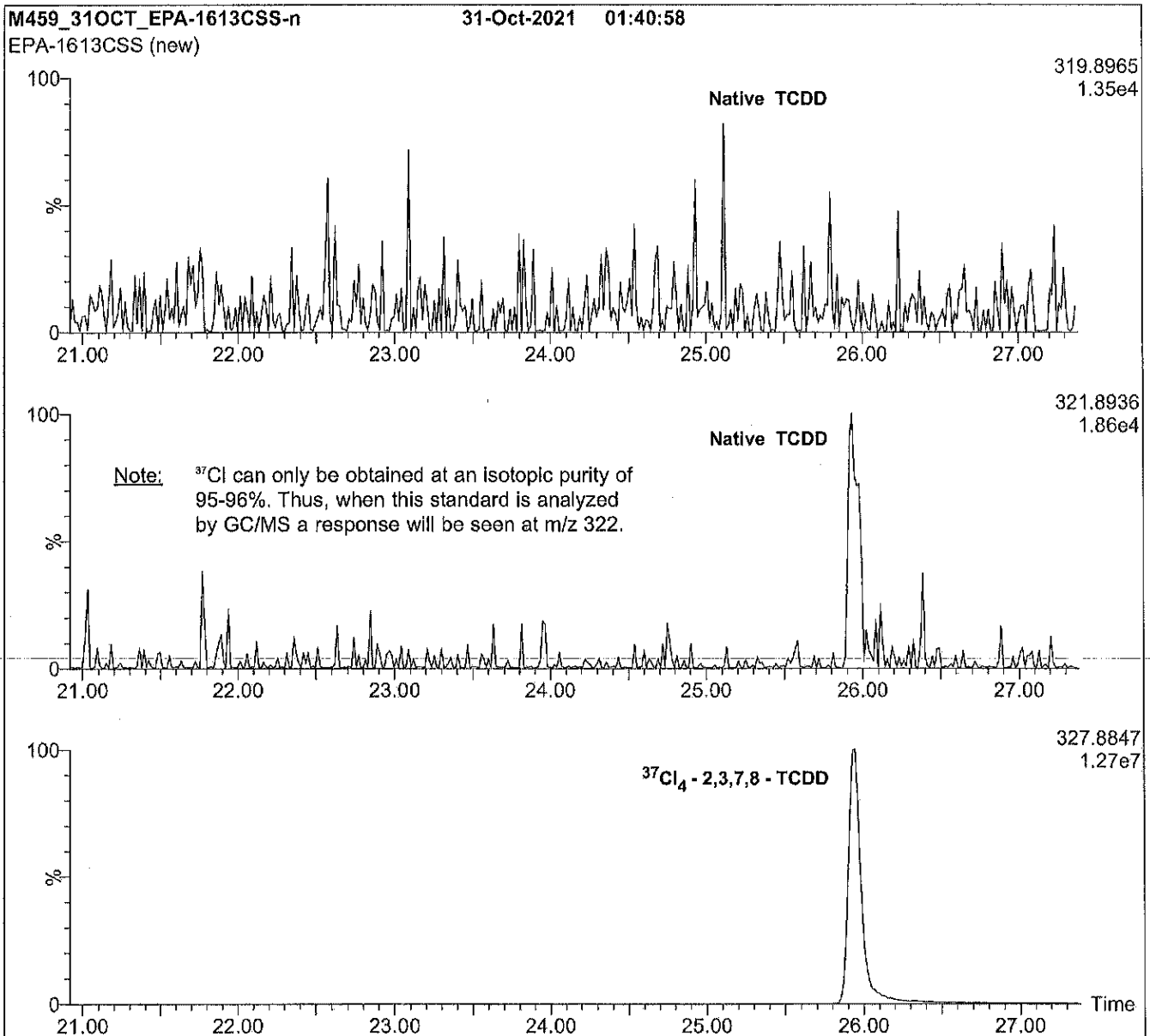
QUALITY MANAGEMENT:

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-1613CSS

**U.S. EPA Method 1613 Cleanup Standard
Spiking Solution**

PRODUCT CODE: EPA-1613CSS
LOT NUMBER: 13CSS1021
SOLVENT(S): Nonane L 1258
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:

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)

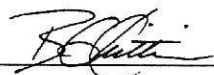
ADDITIONAL INFORMATION:

- 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:

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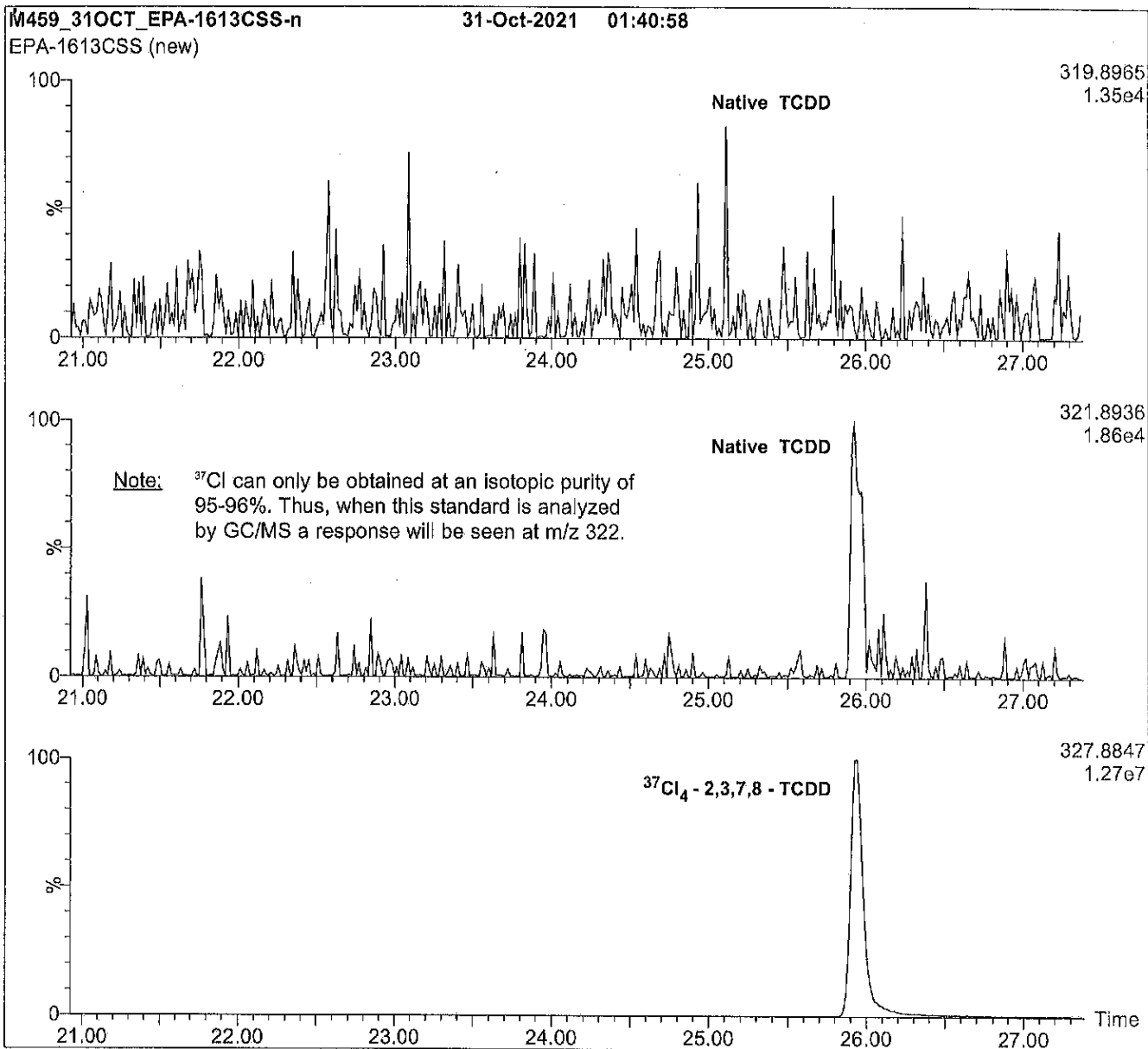
QUALITY MANAGEMENT:

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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		
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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

L 1259

DESCRIPTION:

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.

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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)

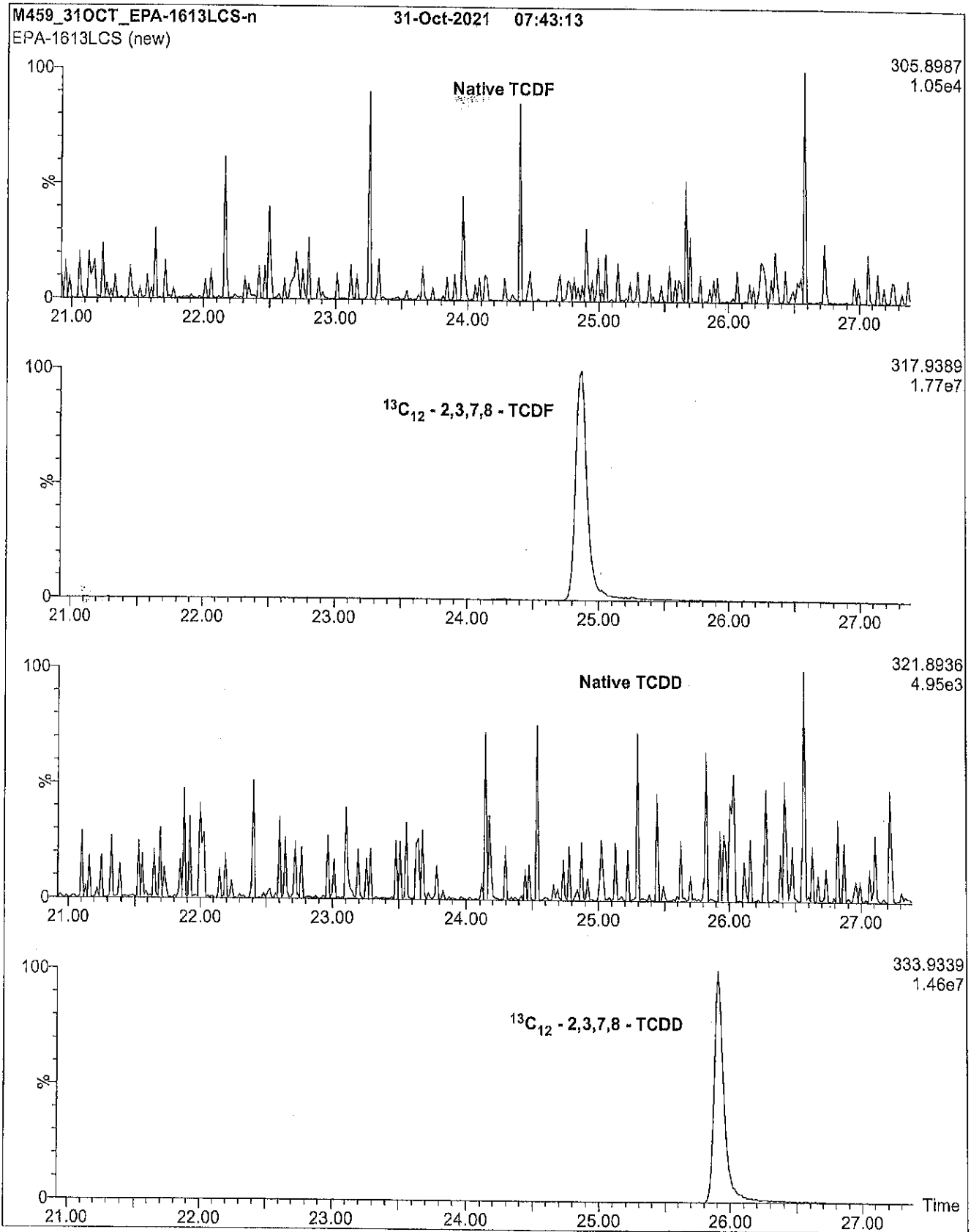


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

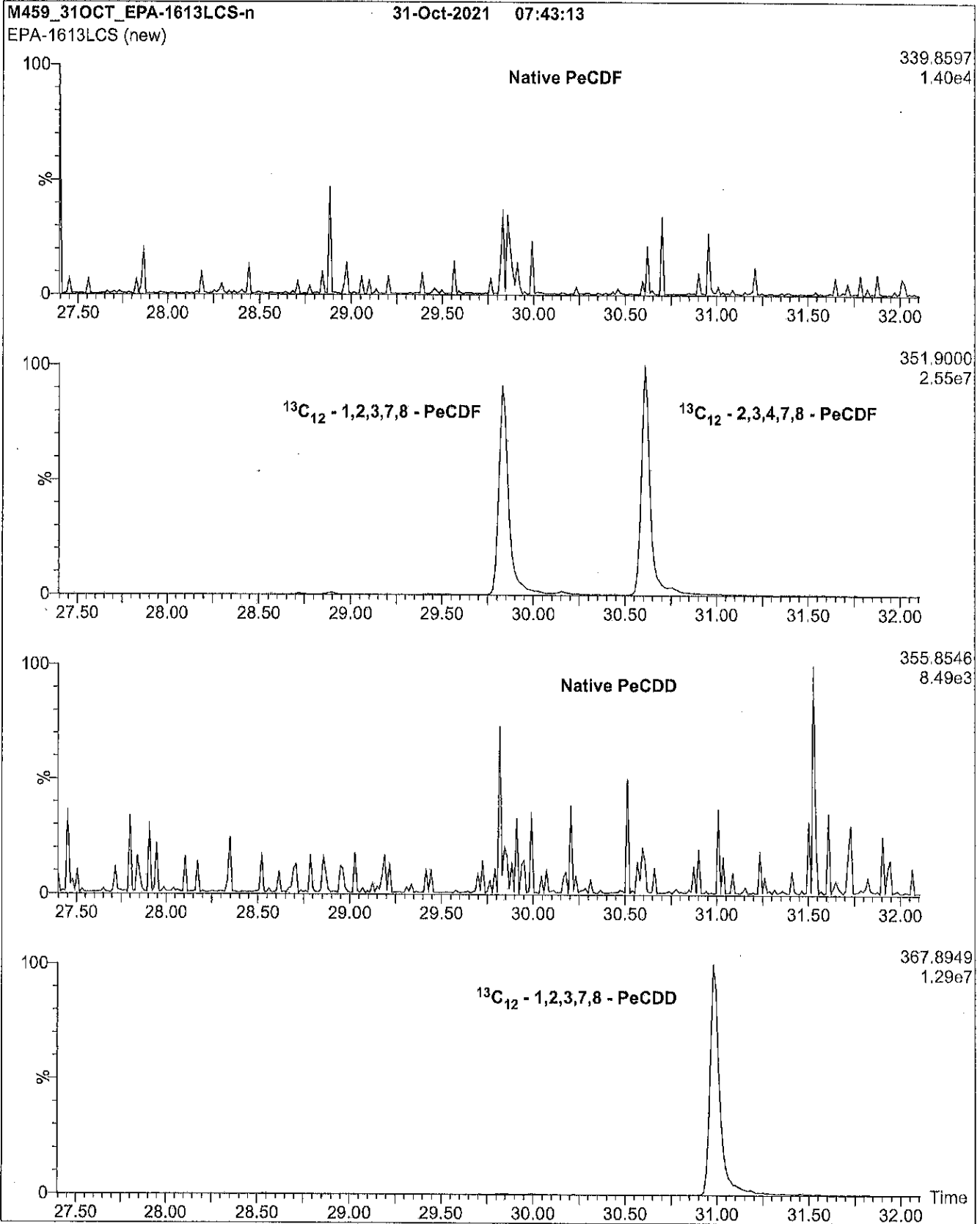


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

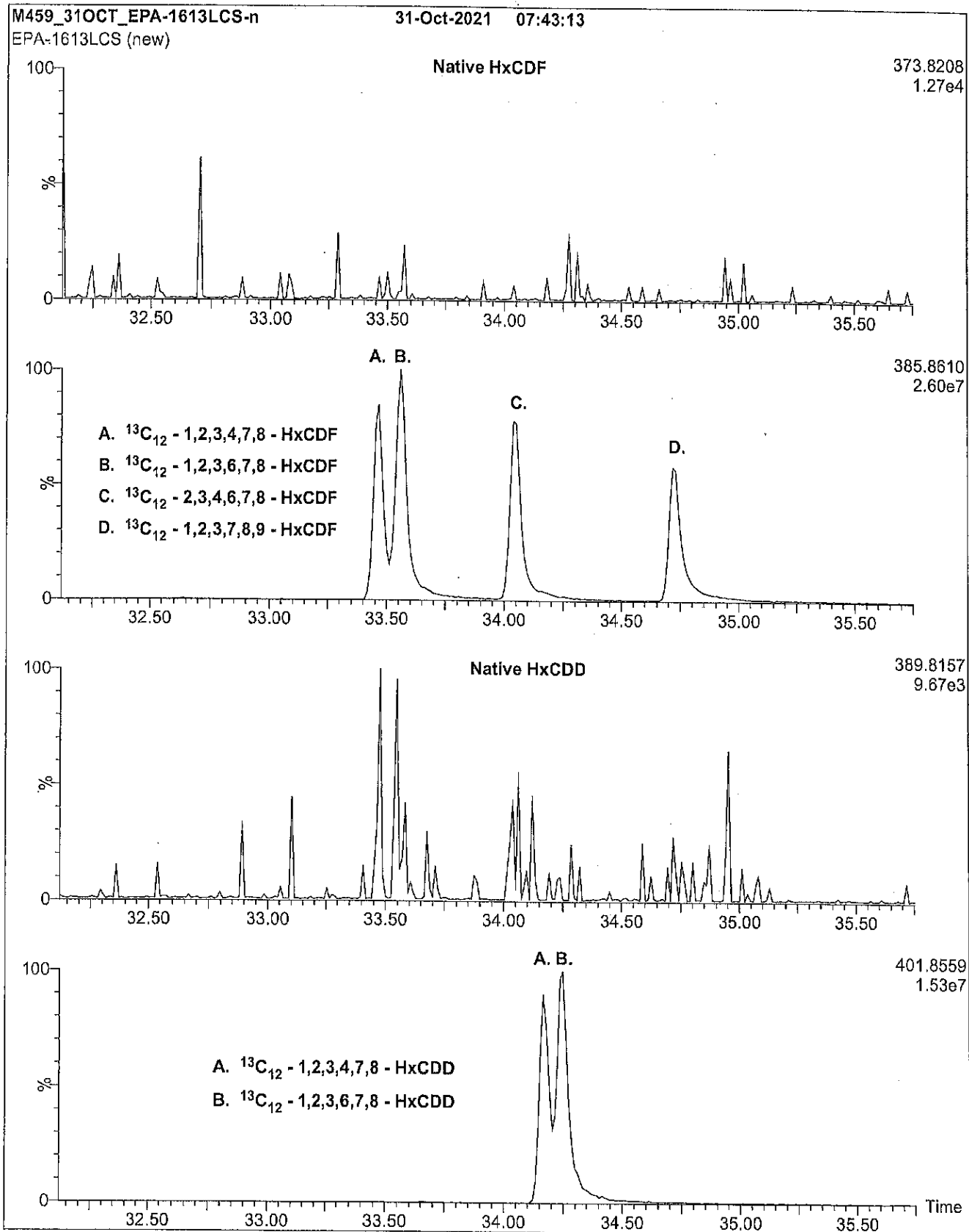


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

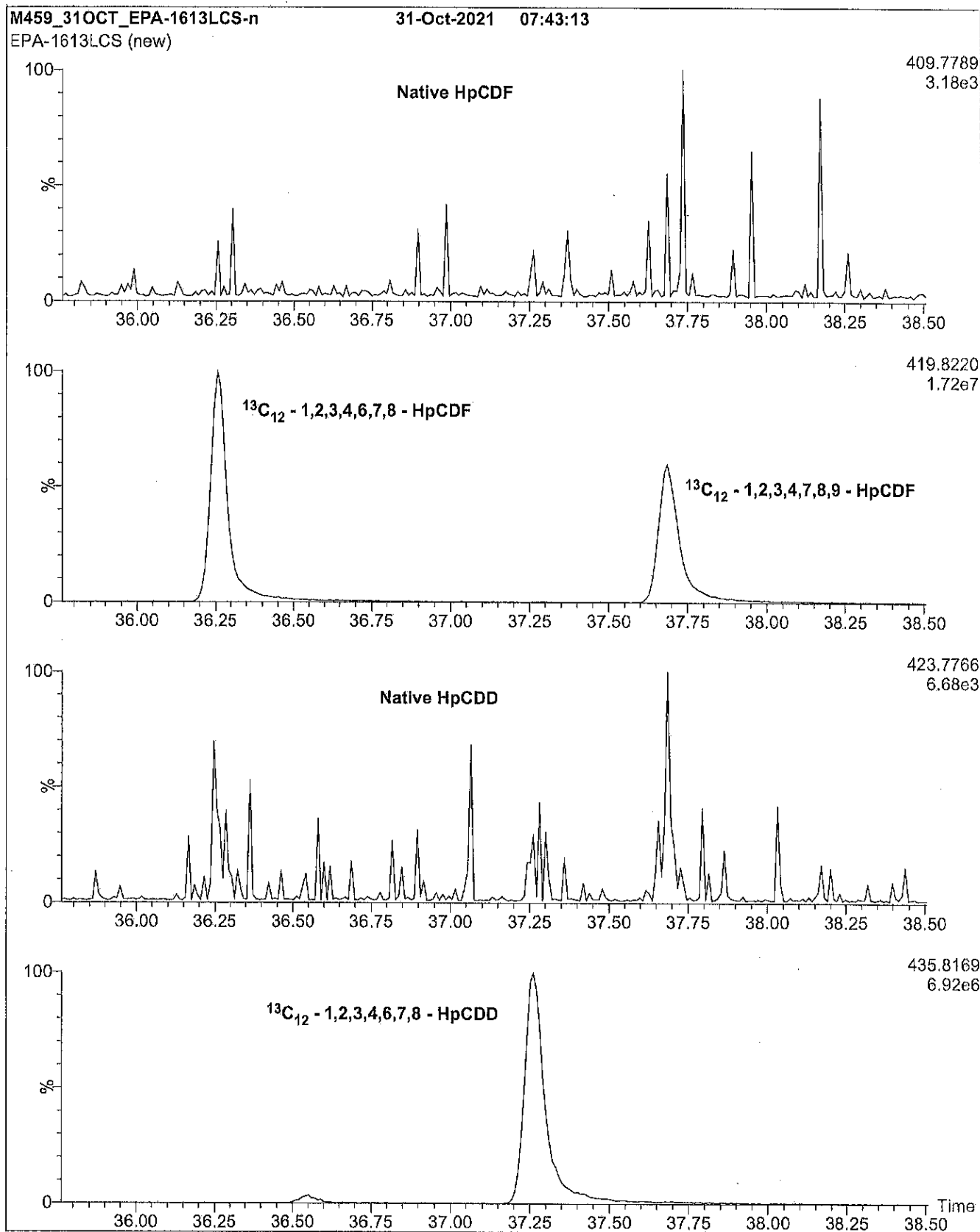
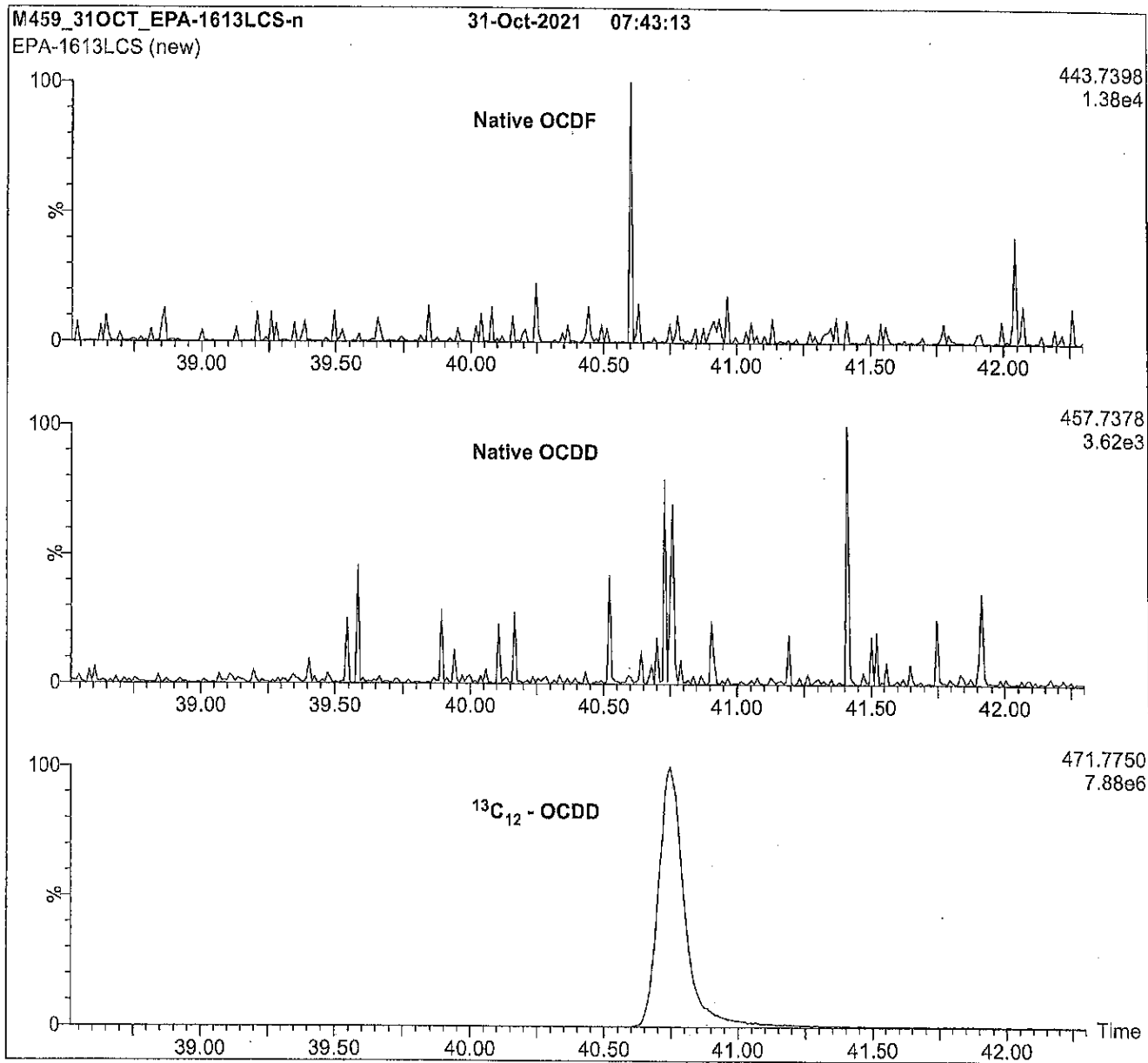


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)



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:	El+		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)



Analytical Standard Record
Standard ID: L002084

Printed: 3/2/2023 8:59:18AM

Description:	Dioxin ISC Mix	Expires:	24-Feb-2024
Standard Type:	Other	Prepared:	24-Feb-2023
Solvent:	Nonane	Prepared By:	Peter Kepler
Final Volume (mls):	1	Department:	HRGCMS
Vials:	1	Last Edit:	24-Feb-2023 11:19 by PK
Vendor:	NA	Lot #:	1234
Vendor Catalog #:			

Comments

Stock: H9902: 2378-TCDF, 3467-TCDF, 2348-TCDF, 1278-TCDD, 2378-TCDD. each @ 1000 ng/mL

10 ul to 1 mL FV in Nonane. Final Conc = 10 ng/mL. Analytes and units not available in Element.

Analyte	CAS Number	Concentration	Units
2,3,7,8-TCDF	51207-31-9	10	ug/mL
2,3,7,8-TCDD	1746-01-6	10	ug/mL



EPA Region 10, 1200 Sixth Avenue, Seattle, WA 98101
Form Effective Date: January 2021

Sample Custody & Analysis Required Form

EPA Manchester Laboratory, 7411 Beach Drive East, Port Orchard, WA 98366,
360-871-8700 Revision 0

Project Name Puget Sound Sediment (SRM)	Project Code (format: XXX-NNNX where X is a letter and N is a number, e.g. WTR-162R) Site Duwamish AOC5	Method of Shipment/carrier FED EX	Airbill Number (if known prior to sealing) 8116 6130 5339
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Account Code NA	EPA Project Manager/phone number Raymond Wu 206-553-1413	Type X in all "boxes" that apply <input type="checkbox"/> Enforce/Custody	Possible Toxic/Hazardous <input type="checkbox"/> Data Confidential <input type="checkbox"/>
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Sampler Names Type (R) after name of principal recorder. Attn: Sue Dunnihoo (250)-695-6207	If applicable, circle the set of selected metals, or type a list of names: ARI	(1) Matrix Codes: 11 Water (Total) 10 Liquid 20 Water, Filtered (Dissolved) 40 Sediment/Soil/Solid/Bulk 70 Tissue 80 Oil/Solvent 42 Swab 44 Air filter 43 Wipe Enter other next to 00 below: 00	#C (2) enter the number of containers for each preservative type AND the preservation code P (3): A - HCl G - Na ₂ S ₂ O ₃ +EDTA B - HNO ₃ H - EDTA C - NaOH N No chemical preservation D - H ₂ SO ₄ P - Bottles pre-preserved at lab E - Na ₂ S ₂ O ₃ T - To be preserved at the lab F - ascorbic acid ² , then HCl (² Na ₂ S ₂ O ₃ if required by plan.) W - enter preservative: <input type="checkbox"/> Type X in box if the cooler is iced
---	--	---	---

Sampler's comments for the laboratory (in box or cell below):
**COC # SRM0001
Order # R10LAB0001**

Laboratory: see the applicable QAPP, SOW and/or Analytical Support Request for specific methods and detection, reporting, and/or quantitation limits

Organics				Metals		Micro	General Chemistry			Additional Analyses					
VOA	BNA	pest	PCB	PAH	CLP	Selected Mercury	Escherichia Coli (E-Coli)	Fecal Coliform	Total Coliform	TSS	TDS	BOD 5	NO _x /NO ₃	Oil & Grease	Asbestos

EPA Sample number (8 digits)		Sampling Date & Time		Matrix	#C	P	#C	P	#C	P	#C	P	Sampler	Sample/Station Description/Field Measurements
Yr (2)	Wk (2)	Sequence (4)	Date (mm/dd/yyyy)	Time (hh:mm)	(1)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	(2) (3)	Initials	
			NA	NA	40	1	N							EPA QA Material PSRM0175 - L044753
			NA	NA	40	1	N							EPA QA Material PSRM0176 - L044754

Chain of Custody Record					
Relinquished by (Signature) R10 Kum Wood ESAT	Date 4/27/23	Time 0900	Received by (Signature) Jacob Walter	Date 04/28/23	Time 1500
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
Shipped by (Signature)	Date	Time	Received for Lab by (Signature)	Date	Time

Receiving Laboratory Information: Condition of Samples upon Receipt at Lab:			
Custody Seals Intact:	<input type="checkbox"/> yes	<input type="checkbox"/> no	<input type="checkbox"/> none

Additional Directions:

Additional Matrix Codes: 30 Leachate 50 Sludge 60 Air

Matrix codes: these are the codes in use at the EPA Region 10 Laboratory. Pick the matrix code that best matches the sample matrix. If in the opinion of the sampler, the sample matrix needs to be specially described, use 00 and type a matrix description. Remember, tissue can be animal or vegetable in nature.

ANALYSES: Type in the name of the analysis names as needed. Try to use the bolded analyte symbol/abbreviation (some analyses are not abbreviated).

Organics pre-printed on the form:

PAH Polynuclear Aromatic Hydrocarbons (these are a subset of the compounds reported from GCMS analyses for BNA - PAH by HPLC or SIM-GC/MS methods are usually requested in order to get low reporting limits).

Pest Organochlorine Pesticides **PCB** Polychlorinated Biphenyls aka Aroclors **VOA** (aka VOC) - volatile organic

Organics that can be typed instead:

Algal Toxins **BNA-TCLP** BTEX Aromatic Volatiles **Btins** Butyltins **EDB** Ethylene Dibromide **Explosives**

Formaldehyde **Herb** Herbicides **HydroCarb** Hydrocarbon ID **Lip%** Percent lipids in tissue **NDMA** N-

Nitrosodimethylamine **PBDE** Polybrominated Diphenyl Ether **PCP** Pentachlorophenol **TPH-Dx** Total Petroleum Hydrocarbon, Diesel extended **TPH-Gx** Total Petroleum Hydrocarbon, Gasoline **VOA-TCLP**

Metals pre-printed on the form (underlined = CLP metals, Mercury is separately requested):

Al: aluminum **Sb:** antimony **As:** arsenic **Ba:** barium **Be:** beryllium **B:** boron **Cd:** cadmium **Ca:** calcium, **Cr:** chromium **Co:** cobalt **Cu:** copper **Fe:** iron **Pb:** lead **Mg:** magnesium **Mn:** manganese **Ni:** nickel, **K:** potassium **Se:** selenium **Ag:** silver **Na:** sodium **Sn:** tin **Tl:** thallium **V:** vanadium **Zn:** zinc

Additional Metals: **Ce:** cerium **Mo:** molybdenum **Sr:** strontium **Ti:** titanium **U:** uranium **Zr:** zirconium

Metals analyses that can be added:

Cr+6 Hexavalent Chromium **Hardness** **Hg-LL** Mercury by 1631E **Hg-TCLP** Methyl-Hg Methylmercury

Metals-TCLP (includes RCRA metals As, Ba, Cd, Cr, Pb, Se, Ag)

Microbiology Analyses pre-printed on the form:

Escherichia coli **Fecal Coliform** **Total Coliform**

Microbiology Analyses that can be typed instead:

ColiIert **EDC** Endocrine Disrupting Chemical Bioassay **Ent** Enterococci **G/C** Giardia/Cryptosporidium **HPC**

Heterotrophic Plate Count **MPA** Microscopic Particulate Analysis **MST** Microbial Source Tracking

General analyses pre-printed on the form:

Asbestos **BOD** Biochemical Oxygen Demand **NO2+NO3** Nitrite plus Nitrate **Oil & Grease** **TDS** Total

Dissolved Solids **TSS** Total Suspended Solids

General analyses that can be typed instead:

Acidity **Alkalinity** **Ammonia** **Anions** (specify if Br: Bromide, Cl: Chloride, F: Fluoride, NO3: Nitrate, NO2: Nitrite, NO3+NO2, SO4: Sulfate and/or PO4: orthophosphate apply) **CN** Cyanide **Conduct** Conductance **Cphyl**

Chlorophyll a **Flashpoint** Ignitability **Microcystins** **Moisture** **pH** **P-ortho** Orthophosphate **P-total** Total

Phosphorus **Part-size** Particle Sizing **Perchlor** Perchlorate **SEM** Scanning Electron Microscope **Solid%**

Percent Solids **TKN** Total Kjeldahl Nitrogen **TOC** Total Organic Carbon **Turbidity** **Water%** Water Content

XRD X-Ray Diffraction **XRF** X-Ray Fluorescence

CONTAINER GUIDANCE:

Note: this is general information only - consult the QA Project Plan on appropriate containers and preservatives for each project. Modifying methods may require modifying the number/type of containers. Freezing samples for one or more analyses may require collection of individual containers. Contact the laboratory for minimum sample volumes in situations where sample material is limited. Minimum volumes required for analysis will depend on the analysis and required reporting limits.

Containers for soil/sediment:

Metals/cyanide/mercury: 1, wide mouth 8 ounce glass or HDPE.

Extractable organics: 1, 8 ounce wide mouth amber glass, for one or two analyte groups

Inorganics and organics: 1, sixteen ounce wide mouth amber glass.

VOAs/purgeables: Contact the laboratory for the proper number/type of special Closed-System sample containers

Containers/chemical preservatives for water⁴:

Metals/regular mercury: 1, one liter HDPE, HNO3 to pH<2

Mercury by method 1631: HCl and 250 mL containers provided by MEL

Cyanide: 1, 250 mL or larger HDPE, remove sulfides and/or residual chlorine then add NaOH to pH>12

Extractable organics (BNA, Pest, PCP, PAH etc.): 2, 1 liter amber glass containers for each analysis

VOAs/purgeables: 3, zero headspace 40 mL amber glass vials with Teflon Septa, remove residual chlorine then add HCl to pH<2

Acidity, Alkalinity: 1, 250 mL or larger HDPE, no extra volume for lab QC

Ammonia, NO2+NO3, T-Phos, TKN: 1, 250 mL or larger HDPE, H2SO4 to pH<2, no extra volume for lab QC

BOD 5: 1, one gallon HDPE, no extra volume for lab QC

TSS: 1, one liter or larger HDPE, no extra volume for lab QC

TDS: 1, 250 mL or larger HDPE, no extra volume for lab QC

Oil & Grease: 1, one liter clear glass, HCl to pH<2, submit 4 separate containers for the lab QC sample

NO2+NO3: 1, 250 mL or larger HDPE, H2SO4 to pH<2, no extra volume for lab QC

Anions: 1, 100 mL or larger HDPE, no extra volume for lab QC

⁴ Water samples to be designated for lab QC should have double volume submitted for metals, triple volume for organics. In general, extra volume is usually not required for lab QC for soil/sediment.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10 LABORATORY
7411 Beach Drive East
Port Orchard, WA 98366

LABORATORY SERVICES &
APPLIED SCIENCE
DIVISION

PUGET SOUND SEDIMENT REFERENCE MATERIAL INSTRUCTIONS HRGC/HRMS CDD/CDF/CB CONGENER AND GC/ECD AROCLOR ANALYSIS

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocols or your contract, disregard these instructions. This material was prepared at the Quality Assurance Technical Support (QATS) laboratory, 2700 Chandler Avenue - Building C, Las Vegas, NV 89120, by APTIM Federal Services, LLC.

APPLICATION: For the analysis of CDD/CDF and CB Congener analytes using project-specified HRGC/HRMS methods, and Aroclors using project-specified GC/ECD methods.

CAUTION: Read instructions carefully before opening bottles and proceeding with the analyses.

SAMPLE DESCRIPTION

Enclosed is a Puget Sound (Washington State) Sediment Reference Material (SRM) set for chlorinated dibenzo-p-dioxins/chlorinated dibenzofurans (CDD/CDF), and/or chlorinated biphenyl (CB) congener analysis using project-specified high resolution gas chromatography/ high resolution mass spectrometry (HRGC/HRMS) methods. This SRM is also suitable for Aroclors analysis using project-specified gas chromatography/electron capture detection (GC/ECD) methods. This set consists of one (1) or more bottles, each with approximately 30 grams of Puget Sound SRM containing CDD/CDF, CB Congener, and/or Aroclor analytes. Check the chain-of-custody record to determine the number of bottles provided for CDD/CDF, CB Congener, and/or Aroclor analysis. None of the bottles are to be opened until SRM preparation/analysis is to occur.

CAUTION: The SRM could contain compounds that are light sensitive and should be protected from light during storage. Store the SRM at $\leq 6^{\circ}\text{C}$, preferably at $< 0^{\circ}\text{C}$, until SRM preparation and analysis is to occur. Allow the bottle(s) to reach ambient temperature before opening.

(A) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Kim Wood (360) 871-8792 or Karen Norton (360) 871-8760 at the USEPA Region 10 Laboratory.

(B) ANALYSIS REQUIREMENTS

The SRM is to be analyzed as described in the project-specified methods employed for the analysis of CDD/CDF and/or CB Congener analytes using HRGC/HRMS instrumentation and/or Aroclors using GC/ECD instrumentation. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the project-specified methods, or your contract, disregard these instructions.

(C) SAMPLE ANALYSIS

General Instructions

The SRM contains CDD/CDF, CB Congener, and Aroclor analytes which are known or suspected to have severe health effects. Employing appropriate safety precautions, this SRM is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The SRM should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials. When calculating the concentrations of analytes, use 0% as the soil moisture content.

Allow the bottle(s) to reach ambient temperature before opening and removing gravimetric amounts for sample preparation. To begin the extraction and analysis procedure, break the seal and open the bottle carefully. Weigh out the appropriate aliquot for extraction and analysis as prescribed in the project-specified methods (typically 10 grams for HRGC/HRMS methods and 30 grams for GC/ECD methods), or in accordance with your contract.

Proceed immediately with the extraction and analysis as described in the project-specified methods or your contract.

(D) REPORTING

Report the results for the prepared SRM as received.

Report the analytical results for the SRM to EPA or other appropriate Agency, using the format and other instructions for submission of data packages as specified by client.

Revised April 2023



**PUGET SOUND SEDIMENT REFERENCE MATERIAL (SRM)
REQUEST FORM**

ORDER # R10LAB0001

TO REQUEST PUGET SOUND SRM, PLEASE COMPLETE THIS FORM AND SEND IT TO:	
USEPA Region 10 SRM Manager Attn: Mr. Raymond C. Wu 1200 Sixth Avenue Mail Code: OERA-14-D12 Seattle, WA 98101 Phone: (206) 553-1413 Email: wu.raymond@epa.gov	Special Instructions:
	Analytical Fraction: <input checked="" type="checkbox"/> Dioxins/Furans <input type="checkbox"/> CB Congeners <input checked="" type="checkbox"/> Aroclors
NOTE: PUGET SOUND SRM WILL BE SHIPPED OVERNIGHT. REQUESTS PROCESSED WITHIN 2 WEEKS, PLEASE PLAN AHEAD!	

Date of Request: 4/26/23 (4/6/23)	Project/Site Name/Number: Duwamish AOC5
Date SRM Needed: ASAP	
No. of Bottles Requested: 2	<u>FedEx</u> / UPS Acct #: 2465-9307-8
NOTE: PUGET SOUND SEDIMENT REFERENCE MATERIAL IS PACKAGED IN GLASS BOTTLES CONTAINING 30 GRAMS OF MATERIAL.	

Ship SRM, SRM request form, and Chain-of-Custody form with sample numbers to:			
Contact Name: Sue Dunnihoo	Email: limsadm@arilabs.com		
Laboratory Name: Analytical Resources, Inc.			
Address: 4611 South 134th Place			
City: Tukwila	State: WA	Zip Code: 98168	
Phone: 250 695-6207	Fax No.:		
Send copies of the SRM request form and Chain-of-Custody form with sample numbers to:			
Contact Name: Amara Vandervort	Email: amarav@windwardenv.com		
Company: Woodward Environmental LLC			
Address: 200 First Avenue West Suite 500			
City: Seattle	State: WA	Zip Code: 98119	
Phone: 206 812-5415	Fax No.:		

For EPA Region 10 Manchester Laboratory Use Only	
No. of Samples Shipped: <i>2</i>	Shipped By: <i>K. Wood FedEx</i>
Shipping Date: <i>4/27/23</i>	Airbill No.: <i>8116 6130 5339</i>
COC No.: <i>SRM0001</i>	

As an authorized agency requestor, I certify that the Puget Sound SRM requested is to be used for USEPA Region 10 approved activities only.	
Erika Hoffman	
Print Name	Authorized Signature
Authorized Agency: US EPA R9	Phone No: 360-753-9540