CFA | Cape Fear Analytical LLC
an affiliate of The GEL Group INC

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
P 910.795.0421
www.capefearanalytical.com

June 29, 2023

Mr. Alan Sprott
Vigor Industrial, LLC
5555 North Channel Avenue
Portland, Oregon 97217

Re: Swan Island Basin Portland Harbor
Work Order: 21309

Dear Mr. Sprott:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 13, 2022. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,

Cynde Larkins

Cynde Larkins
Project Manager

Enclosures

problem solved

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Todd Poyfair

Project Number: K2204961
Project Manager: Todd Poyfair
QAP: LAB QAP

CR 16MAR23
CFA WO ~~#19832~~
21309

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	Cl Biphen Cong 1668B *	Dioxins Furans 1613B
K2204961-021	SIB-SW-WR198-050522	2	Storm Water	5/5/22		Cape Fear	X	X
K2204961-022	SIB-SW-WR186-050522	2	Storm Water	5/5/22		Cape Fear	X	X
K2204961-023	SIB-SW-WR15-050522	2	Storm Water	5/5/22		Cape Fear	X	X
K2204961-024	SIB-SW-WR428-050522	2	Storm Water	5/5/22		Cape Fear	X	X
K2204961-025	SIB-SW-WR71-050522	2	Storm Water	5/5/22		Cape Fear	X	X

*16683 on hold until client determines appropriate samples and analyte list for analysis.

Special Instructions/Comments
Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

temp. = 5.2°C

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements
____RUSH (Surcharges Apply)
PLEASE CIRCLE WORK DAYS
1 2 3 4 5
____ STANDARD
Requested FAX Date: _____
Requested Report Date: 05/27/22

Report Requirements
____ I. Results Only
____ II. Results + QC Summaries
____ III. Results + QC and Calibration Summaries
X IV. Data Validation Report with Raw Data
PQL/MDL/J Y
EDD Y

Invoice Information
PO# 51K2204961
Bill to

Relinquished By: [signature] 5/12/22
Received By: [signature] 5/13/22 1024 1024
Airbill Number:

K2204961

Cynde Larkin

____ **Ship To: Cape Fear Analytical**
Cape Fear Analytical
3306 Kitty Hawk Rd
Suite 120
Wilmington, NC 28405

PC NP Date 5/11/22
SMO RH Date 5/12/22

Instructions:
Ice X
Dry Ice ____
No Ice ____

Shipping:
Overnight X
2nd Day ____
Ground ____

Bill to Client Account ____

Comments:

SAMPLE RECEIPT CHECKLIST

Cape Fear Analytical

21309

Client: ALS	Work Order: ~~19032~~ CR 16MAR23
Shipping Company: FedEx	Date/Time Received: 5/13/22 10:24

Suspected Hazard Information	Yes	NA	No
Shipped as DOT Hazardous?			✓
Samples identified as Foreign Soil?			✓

DOE Site Sample Packages	Yes	NA	No*
Screened <0.5 mR/hr?		✓	
Samples < 2x background?		✓	

* Notify RSO of any responses in this column immediately.

Air Sample Receipt Specifics	Yes	NA	No
Air sample in shipment?			✓

Air Witness:

	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?	✓			Seal intact? (Yes) No
3	Chain of Custody documents included with shipment?	✓			
4	Samples requiring cold preservation within 0-6°C?	✓			Preservation Method: (ice bags) loose ice (blue ice) dry ice none other (describe) Temperature Blank present: (Yes) No 5.3-0.1=5.0 (temp blank)
5	Aqueous samples found to have visible solids?	✓			Sample IDs, containers affected: -023 possible high solids, all others minimal solids
5	Samples requiring chemical preservation at proper pH?	✓			Sample IDs, containers affected and pH observed: all pH=2 If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	✓			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	✓			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	✓			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?			✓	Sample IDs, containers affected: No date or time on sample labels
11	Number of containers received match number indicated on COC?	✓			List type and number of containers / Sample IDs, containers affected: Mercury 10-1L Numbers
12	COC form is properly signed in relinquished/received sections?	✓			

Comments:

Cynde Larkins

From: Gadt, Jeff <jgadt@hgl.com>
Sent: Tuesday, May 10, 2022 7:12 PM
To: Cynde Larkins
Cc: Fletcher, Andrea; Rapuano, Ken; Hodge, Jeff; Todd Poyfair; Cherry, Shane
Subject: PCB Congener Samples to CFA - Swan Island Basin PDI Investigation

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi Cyndi,
I'm the field coordinator for the Swan Island Basin project. I just wanted to give you a heads up that ALS-Kelso will be shipping you five samples for potential PCB congeners analysis. These samples are to be archived until HGL determines which two samples will be analyzed.

Please let me know if you have any questions or concerns.

Thanks.--jeffg

Jeff Gadt, P.G.
Project Geologist
HydroGeoLogic, Inc.
6340 Glenwood, Blding 7, Ste. 200
Overland Park, KS 66202
Main ph: 913.317.8860
Direct: 913.647.2531
Cell: 816.589.4036

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Cynde Larkins

From: Fletcher, Andrea <afletcher@hgl.com>
Sent: Thursday, March 16, 2023 9:03 AM
To: Cynde Larkins
Subject: RE: [EXTERNAL] RE: Portland Harbor Stormwater Samples

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi Cynde,

Yes, please all 5 analyzed for dioxin but only 2 for PCBs and I don't think it matters which ones.

Thanks so much!

Andrea

Andrea Fletcher
Scientist IV
Office: 913-647-2537
Mobile: 913-488-0024
afletcher@hgl.com

cx 16MAR23
~~WO# 19832~~
WO# 21309

HGL Restoring the Environment. Protecting Our Future.

HydroGeoLogic, Inc.
6340 Glenwood, Suite 200, Building 7
Overland Park, KS 66202
www.hgl.com

From: Cynde Larkins <Cynde.Larkins@cfanalytical.com>
Sent: Thursday, March 16, 2023 7:59 AM
To: Fletcher, Andrea <afletcher@hgl.com>
Subject: RE: [EXTERNAL] RE: Portland Harbor Stormwater Samples

Andrea,
I am finding out from the lab about the TAT. We have been logging everything for 45 to 60 days.

Did you mean you want all 5 waters analyzed for dioxin but only 2 samples analyzed for PCB's?

Thanks,
Cynde Larkins
Project Manager
Cape Fear Analytical, LLC
3306 Kitty Hawk Road, Suite 120
Wilmington, NC 28405
(910) 795-0421

HYGL samples on HOLD

Cynde Larkins
To Fletcher, Andrea; Nyland, Linda
Cc Elaine Booker

19832.pdf
706 KB

Good morning,
CFA received the attached COC and samples May 13, 2022. They came to us marked HOLD and remain on that status.
in June regarding these samples. She notified us that the original PM, Todd Poyfair, had unexpectedly passed away and

I wanted to remind you of these samples being held here at CFA and notify you that the invoice for their HOLD will be re
July 12th, the second will be September 10th. Please advise if we are to continue to HOLD these or if you need anything

Thank you,

Cynde Larkins
Project Manager
Cape Fear Analytical, LLC
3306 Kitty Hawk Road, Suite 120
Wilmington, NC 28405
(910) 795-0421

CFA Cape Fear Analytical LLC

There are several water samples in the system received in October – do you have sample ID's or anything to narrow down what I am looking for?
Thank you,

Cynde Larkins
Project Manager
Cape Fear Analytical, LLC
3306 Kitty Hawk Road, Suite 120
Wilmington, NC 28405
(910) 795-0421

CFA Cape Fear Analytical LLC

From: Fletcher, Andrea <afletcher@hgl.com>
Sent: Thursday, February 23, 2023 3:13 PM
To: Cynde Larkins <Cynde.Larkins@cfanalytical.com>
Subject: Portland Harbor Stormwater Samples

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi Cynde,

Did you receive stormwater samples for dioxin/furan analysis? The first were collected in May and then a second round was collected in October. I believe those samples were sent to ARI in error but they were supposed to ship them to you. I can't find any login information for those samples. Of course, they want this information as soon as possible.

Thanks!

Andrea

Andrea Fletcher
HGL
913-488-0024 (cell)
913-647-2537 (direct)
913-317-8860 (main)

Consider the Environment before printing this email.

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Cape Fear Analytical LLC - Login Review Report - Chain of Custody

3306 Kitty Hawk Road, Suite 120 Wilmington, NC 28405
(910) 795 - 0421 (Phone) ~ www.cfanalytical.com

CFA Work Order:	21309 1613B Water	**Work Order Due Date:**	01-MAY-23	**Collector:**	G
SDG:	21309	**Package Due Date:**	28-APR-23	**Prelogin #:**	20230362581
Project Manager:	Cynde Larkins	**EDD Due Date:**	01-MAY-23	**Project ID:**	1224519
Project Name:	HYGL00122			**SDG Status:**	Closed
	Swan Island Basin Portland Harbor			**Logged By:**	CGL
Purchase Order:				**Project Type:**	HRMS
Package Level:	LEVEL6				
EDD Name:	EQEDD_HGL	**Days to Process:**	46		

Prelogin Group	QC Requirements	CFA Sample ID	Client Sample ID	Sample Description	Collect Date	Receive Date	Matrix	Chain of Custody #	Total Containers	PM Comments?
1		21309001	SIB-SW-WR198-050522	1613B Water	05-MAY-22 12:00	13-MAY-22 10:24	WATER		1	
1		21309002	SIB-SW-WR186-050522	1613B Water	05-MAY-22 12:00	13-MAY-22 10:24	WATER		2	
1		21309003	SIB-SW-WR15-050522	1613B Water	05-MAY-22 12:00	13-MAY-22 10:24	WATER		2	
1		21309004	SIB-SW-WR428-050522	1613B Water	05-MAY-22 12:00	13-MAY-22 10:24	WATER		1	
1		21309005	SIB-SW-WR71-050522	1613B Water	05-MAY-22 12:00	13-MAY-22 10:24	WATER		2	

High Resolution Dioxins and Furans Analysis

Case Narrative

HDOX Case Narrative
HydroGeoLogic, Incorporated (HYGL)
SDG 21309

Method/Analysis Information

Product:	**Dioxins/Furans by EPA Method 1613B in Liquids**
Analytical Method:	EPA Method 1613B
Extraction Method:	SW846 3520C
Analytical Batch Number:	52698
Clean Up Batch Number:	52696
Extraction Batch Number:	52695

Sample Analysis

Samples were received at 5.2°C. (21309001,21309002,21309003,21309004,21309005).
The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12034325	Method Blank (MB)
12034326	Laboratory Control Sample (LCS)
12034327	Laboratory Control Sample Duplicate (LCSD)
21309001	SIB-SW-WR198-050522
21309002	SIB-SW-WR186-050522
21309003	SIB-SW-WR15-050522
21309004	SIB-SW-WR428-050522
21309005	SIB-SW-WR71-050522

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference
Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 21.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration
All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements
All associated calibration verification standard(s) (CVS) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement
The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement
The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries
All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery
The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery
The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement
The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation
A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Holding Time Specifications
CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification
All procedures were performed as stated in the SOP.

Sample Dilutions
The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis
Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Manual Integrations

Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP722_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Sample Data Summary

Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report
for

HYGL001 HydroGeoLogic, Incorporated

Client SDG: 21309 CFA Work Order: 21309

The Qualifiers in this report are defined as follows:

*	A quality control analyte recovery is outside of specified acceptance criteria
**	Analyte is a surrogate compound
B	The target analyte was detected in the associated blank.
J	Value is estimated
K	Estimated Maximum Possible Concentration
U	Analyte was analyzed for, but not detected above the specified detection limit.
h	Preparation or preservation holding time was exceeded

DL Indicates that sample is diluted.
RA Indicates that sample is re-analyzed without re-extraction.
RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: **Name: Alexis Finks**

Date: 29 JUN 2023 **Title: Data Validator**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309001**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR198-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 15:18**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-9**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**925.9 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.94	pg/L	2.94	5.40
40321-76-4	1,2,3,7,8-PeCDD	U	3.22	pg/L	3.22	27.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.37	pg/L	3.37	54.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.94	pg/L	2.94	54.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.13	pg/L	3.13	54.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	5.68	pg/L	5.68	54.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	13.4	pg/L	9.96	108
51207-31-9	2,3,7,8-TCDF	U	3.15	pg/L	3.15	10.8
57117-41-6	1,2,3,7,8-PeCDF	U	2.46	pg/L	2.46	54.0
57117-31-4	2,3,4,7,8-PeCDF	U	2.20	pg/L	2.20	54.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.24	pg/L	1.24	54.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.20	pg/L	1.20	54.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.32	pg/L	1.32	54.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.16	pg/L	2.16	54.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.71	pg/L	1.71	54.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.61	pg/L	2.61	54.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.84	pg/L	7.84	108
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.94	pg/L	2.94	10.8
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	3.22	pg/L	3.22	54.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.94	pg/L	2.94	54.0
TCDF	Total Tetrachlorodibenzofuran	U	3.15	pg/L	3.15	10.8
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	5.68	pg/L	5.68	54.0
30402-15-4	Total Pentachlorodibenzofuran	U	0.797	pg/L	0.797	54.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.20	pg/L	1.20	54.0
38998-75-3	Total Heptachlorodibenzofuran	U	1.71	pg/L	1.71	54.0
TEQ	TEQ WHO2005 ND=0		0.00402	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.43	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1310	2160	pg/L	60.8	(25%-164%)
13C-1,2,3,7,8-PeCDD		1280	2160	pg/L	59.3	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1190	2160	pg/L	55.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1300	2160	pg/L	60.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1220	2160	pg/L	56.6	(23%-140%)
13C-OCDD		2050	4320	pg/L	47.5	(17%-157%)
13C-2,3,7,8-TCDF		1230	2160	pg/L	57.0	(24%-169%)
13C-1,2,3,7,8-PeCDF		1230	2160	pg/L	57.0	(24%-185%)
13C-2,3,4,7,8-PeCDF		1300	2160	pg/L	60.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1240	2160	pg/L	57.3	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1280	2160	pg/L	59.4	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1300	2160	pg/L	60.3	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1160	2160	pg/L	53.7	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309001**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR198-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 15:18**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-9**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**925.9 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1160	2160	pg/L	53.6	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1180	2160	pg/L	54.6	(26%-138%)
37Cl-2,3,7,8-TCDD		169	216	pg/L	78.1	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309002**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR186-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 16:07**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-10**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**909.3 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.17	pg/L	3.17	5.50
40321-76-4	1,2,3,7,8-PeCDD	U	2.03	pg/L	2.03	27.5
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.93	pg/L	2.93	55.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.90	pg/L	2.90	55.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.90	pg/L	2.90	55.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	9.06	pg/L	5.81	55.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	54.7	pg/L	14.9	110
51207-31-9	2,3,7,8-TCDF	U	3.52	pg/L	3.52	11.0
57117-41-6	1,2,3,7,8-PeCDF	U	2.27	pg/L	2.27	55.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.96	pg/L	1.96	55.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.27	pg/L	1.27	55.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.21	pg/L	1.21	55.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.35	pg/L	1.35	55.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.20	pg/L	2.20	55.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	2.46	pg/L	1.90	55.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.73	pg/L	2.73	55.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	5.98	pg/L	5.98	110
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.17	pg/L	3.17	11.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.03	pg/L	2.03	55.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.90	pg/L	2.90	55.0
TCDF	Total Tetrachlorodibenzofuran	U	3.52	pg/L	3.52	11.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	17.0	pg/L	5.81	55.0
30402-15-4	Total Pentachlorodibenzofuran	U	0.959	pg/L	0.959	55.0
55684-94-1	Total Hexachlorodibenzofuran	JK	1.52	pg/L	1.21	55.0
38998-75-3	Total Heptachlorodibenzofuran	JK	6.09	pg/L	1.90	55.0
TEQ	TEQ WHO2005 ND=0		0.132	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.99	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1190	2200	pg/L	54.0	(25%-164%)
13C-1,2,3,7,8-PeCDD		1390	2200	pg/L	63.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1300	2200	pg/L	59.2	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1510	2200	pg/L	68.5	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1400	2200	pg/L	63.6	(23%-140%)
13C-OCDD		2510	4400	pg/L	57.1	(17%-157%)
13C-2,3,7,8-TCDF		1200	2200	pg/L	54.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1230	2200	pg/L	55.9	(24%-185%)
13C-2,3,4,7,8-PeCDF		1380	2200	pg/L	62.6	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1320	2200	pg/L	59.9	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1460	2200	pg/L	66.3	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1430	2200	pg/L	65.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	2200	pg/L	59.2	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309002**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR186-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 16:07**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-10**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**909.3 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1370	2200	pg/L	62.5	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1370	2200	pg/L	62.3	(26%-138%)
37Cl-2,3,7,8-TCDD		159	220	pg/L	72.3	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309003**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR15-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 16:56**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**889 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.59	pg/L	2.59	5.62
40321-76-4	1,2,3,7,8-PeCDD	U	2.70	pg/L	2.70	28.1
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.19	pg/L	3.19	56.2
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.90	pg/L	2.90	56.2
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.04	pg/L	3.04	56.2
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	15.1	pg/L	5.38	56.2
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	104	pg/L	9.74	112
51207-31-9	2,3,7,8-TCDF	U	2.81	pg/L	2.81	11.2
57117-41-6	1,2,3,7,8-PeCDF	U	2.03	pg/L	2.03	56.2
57117-31-4	2,3,4,7,8-PeCDF	U	1.92	pg/L	1.92	56.2
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.58	pg/L	1.58	56.2
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.48	pg/L	1.48	56.2
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.64	pg/L	1.64	56.2
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.54	pg/L	2.54	56.2
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	3.94	pg/L	2.24	56.2
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.37	pg/L	3.37	56.2
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.00	pg/L	7.00	112
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.59	pg/L	2.59	11.2
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.70	pg/L	2.70	56.2
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.90	pg/L	2.90	56.2
TCDF	Total Tetrachlorodibenzofuran	U	2.81	pg/L	2.81	11.2
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	32.0	pg/L	5.38	56.2
30402-15-4	Total Pentachlorodibenzofuran	JK	1.37	pg/L	0.925	56.2
55684-94-1	Total Hexachlorodibenzofuran	JK	2.74	pg/L	1.48	56.2
38998-75-3	Total Heptachlorodibenzofuran	JK	9.76	pg/L	2.24	56.2
TEQ	TEQ WHO2005 ND=0		0.221	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.16	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1470	2250	pg/L	65.2	(25%-164%)
13C-1,2,3,7,8-PeCDD		1570	2250	pg/L	69.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1460	2250	pg/L	65.0	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1580	2250	pg/L	70.4	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1510	2250	pg/L	67.0	(23%-140%)
13C-OCDD		2520	4500	pg/L	56.0	(17%-157%)
13C-2,3,7,8-TCDF		1460	2250	pg/L	64.9	(24%-169%)
13C-1,2,3,7,8-PeCDF		1450	2250	pg/L	64.6	(24%-185%)
13C-2,3,4,7,8-PeCDF		1620	2250	pg/L	71.9	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1490	2250	pg/L	66.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1540	2250	pg/L	68.6	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1580	2250	pg/L	70.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1500	2250	pg/L	66.5	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309003**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR15-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 16:56**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**889 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1420	2250	pg/L	63.3	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1550	2250	pg/L	69.0	(26%-138%)
37Cl-2,3,7,8-TCDD		182	225	pg/L	81.0	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309004**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR428-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 17:45**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-12**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**846.6 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.52	pg/L	3.52	5.91
40321-76-4	1,2,3,7,8-PeCDD	U	1.78	pg/L	1.78	29.5
39227-28-6	1,2,3,4,7,8-HxCDD	U	4.25	pg/L	4.25	59.1
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.97	pg/L	3.97	59.1
19408-74-3	1,2,3,7,8,9-HxCDD	U	4.11	pg/L	4.11	59.1
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	22.1	pg/L	9.26	59.1
3268-87-9	1,2,3,4,6,7,8,9-OCDD		127	pg/L	18.6	118
51207-31-9	2,3,7,8-TCDF	U	3.00	pg/L	3.00	11.8
57117-41-6	1,2,3,7,8-PeCDF	U	1.95	pg/L	1.95	59.1
57117-31-4	2,3,4,7,8-PeCDF	U	1.80	pg/L	1.80	59.1
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.24	pg/L	1.24	59.1
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.18	pg/L	1.18	59.1
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.26	pg/L	1.26	59.1
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.93	pg/L	1.93	59.1
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	2.48	pg/L	2.17	59.1
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.12	pg/L	3.12	59.1
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	8.10	pg/L	8.10	118
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.52	pg/L	3.52	11.8
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.78	pg/L	1.78	59.1
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.97	pg/L	3.97	59.1
TCDF	Total Tetrachlorodibenzofuran	U	3.00	pg/L	3.00	11.8
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	46.8	pg/L	9.26	59.1
30402-15-4	Total Pentachlorodibenzofuran	U	0.834	pg/L	0.834	59.1
55684-94-1	Total Hexachlorodibenzofuran	JK	1.42	pg/L	1.18	59.1
38998-75-3	Total Heptachlorodibenzofuran	JK	6.85	pg/L	2.17	59.1
TEQ	TEQ WHO2005 ND=0		0.284	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.30	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1430	2360	pg/L	60.6	(25%-164%)
13C-1,2,3,7,8-PeCDD		1560	2360	pg/L	66.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1460	2360	pg/L	61.8	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1590	2360	pg/L	67.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1470	2360	pg/L	62.3	(23%-140%)
13C-OCDD		2620	4720	pg/L	55.4	(17%-157%)
13C-2,3,7,8-TCDF		1470	2360	pg/L	62.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		1420	2360	pg/L	59.9	(24%-185%)
13C-2,3,4,7,8-PeCDF		1550	2360	pg/L	65.5	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1490	2360	pg/L	62.9	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1550	2360	pg/L	65.8	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1580	2360	pg/L	66.7	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1470	2360	pg/L	62.2	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309004**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR428-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 17:45**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-12**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**846.6 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1450	2360	pg/L	61.3	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1490	2360	pg/L	63.2	(26%-138%)
37Cl-2,3,7,8-TCDD		175	236	pg/L	74.2	(35%-197%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309005**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR71-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 18:34**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-13**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**968.8 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.21	pg/L	2.21	5.16
40321-76-4	1,2,3,7,8-PeCDD	U	1.79	pg/L	1.79	25.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.87	pg/L	2.87	51.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.62	pg/L	2.62	51.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.73	pg/L	2.73	51.6
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	34.8	pg/L	9.93	51.6
3268-87-9	1,2,3,4,6,7,8,9-OCDD		251	pg/L	18.0	103
51207-31-9	2,3,7,8-TCDF	U	2.39	pg/L	2.39	10.3
57117-41-6	1,2,3,7,8-PeCDF	U	1.83	pg/L	1.83	51.6
57117-31-4	2,3,4,7,8-PeCDF	U	1.62	pg/L	1.62	51.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	2.21	pg/L	2.21	51.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	2.11	pg/L	2.11	51.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	2.23	pg/L	2.23	51.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	3.34	pg/L	3.34	51.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	12.4	pg/L	2.91	51.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.56	pg/L	4.56	51.6
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	68.5	pg/L	11.2	103
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.21	pg/L	2.21	10.3
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.79	pg/L	1.79	51.6
34465-46-8	Total Hexachlorodibenzo-p-dioxin	J	4.38	pg/L	2.62	51.6
TCDF	Total Tetrachlorodibenzofuran	U	2.39	pg/L	2.39	10.3
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	54.3	pg/L	9.93	51.6
30402-15-4	Total Pentachlorodibenzofuran	U	0.656	pg/L	0.656	51.6
55684-94-1	Total Hexachlorodibenzofuran	J	6.48	pg/L	2.11	51.6
38998-75-3	Total Heptachlorodibenzofuran	J	40.2	pg/L	2.91	51.6
TEQ	TEQ WHO2005 ND=0		0.568	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.89	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1410	2060	pg/L	68.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		1390	2060	pg/L	67.4	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1260	2060	pg/L	60.9	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1370	2060	pg/L	66.6	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1280	2060	pg/L	62.0	(23%-140%)
13C-OCDD		2240	4130	pg/L	54.2	(17%-157%)
13C-2,3,7,8-TCDF		1340	2060	pg/L	64.7	(24%-169%)
13C-1,2,3,7,8-PeCDF		1300	2060	pg/L	63.0	(24%-185%)
13C-2,3,4,7,8-PeCDF		1360	2060	pg/L	65.8	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1280	2060	pg/L	62.2	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1330	2060	pg/L	64.2	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1360	2060	pg/L	65.9	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	2060	pg/L	62.8	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309005**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR71-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 18:34**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-13**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**968.8 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	2060	pg/L	63.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1360	2060	pg/L	65.9	(26%-138%)
37Cl-2,3,7,8-TCDD		177	206	pg/L	85.9	(35%-197%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quality Control Summary

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 21309

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12034326	LCS for batch 52695	13C-2,3,7,8-TCDD		62.5	(20%-175%)
		13C-1,2,3,7,8-PeCDD		71.4	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		63.7	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		68.9	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		66.6	(22%-166%)
		13C-OCDD		58.6	(13%-199%)
		13C-2,3,7,8-TCDF		64.5	(22%-152%)
		13C-1,2,3,7,8-PeCDF		64.8	(21%-192%)
		13C-2,3,4,7,8-PeCDF		72.3	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		65.7	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		64.6	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		66.6	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		64.4	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		62.6	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		67.3	(20%-186%)
		37Cl-2,3,7,8-TCDD		73.9	(31%-191%)
12034327	LCSD for batch 52695	13C-2,3,7,8-TCDD		66.2	(20%-175%)
		13C-1,2,3,7,8-PeCDD		69.2	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		67.4	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		69.0	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		65.3	(22%-166%)
		13C-OCDD		57.4	(13%-199%)
		13C-2,3,7,8-TCDF		65.6	(22%-152%)
		13C-1,2,3,7,8-PeCDF		65.2	(21%-192%)
		13C-2,3,4,7,8-PeCDF		69.5	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		67.0	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		65.1	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		69.4	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		63.9	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		62.9	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		66.1	(20%-186%)
		37Cl-2,3,7,8-TCDD		89.7	(31%-191%)
12034325	MB for batch 52695	13C-2,3,7,8-TCDD		53.5	(25%-164%)
		13C-1,2,3,7,8-PeCDD		56.5	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		62.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		58.8	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		57.8	(23%-140%)
		13C-OCDD		50.0	(17%-157%)
		13C-2,3,7,8-TCDF		52.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		49.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		54.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		61.0	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		60.7	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		62.4	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		53.2	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		55.8	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		60.8	(26%-138%)
		37Cl-2,3,7,8-TCDD		73.7	(35%-197%)
21309001	SIB-SW-WR198-050522	13C-2,3,7,8-TCDD		60.8	(25%-164%)

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 21309

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
21309001	SIB-SW-WR198-050522	13C-1,2,3,7,8-PeCDD		59.3	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		55.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		60.3	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		56.6	(23%-140%)
		13C-OCDD		47.5	(17%-157%)
		13C-2,3,7,8-TCDF		57.0	(24%-169%)
		13C-1,2,3,7,8-PeCDF		57.0	(24%-185%)
		13C-2,3,4,7,8-PeCDF		60.3	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		57.3	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		59.4	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		60.3	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		53.7	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		53.6	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		54.6	(26%-138%)
		37Cl-2,3,7,8-TCDD		78.1	(35%-197%)
21309002	SIB-SW-WR186-050522	13C-2,3,7,8-TCDD		54.0	(25%-164%)
		13C-1,2,3,7,8-PeCDD		63.2	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		59.2	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		68.5	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		63.6	(23%-140%)
		13C-OCDD		57.1	(17%-157%)
		13C-2,3,7,8-TCDF		54.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		55.9	(24%-185%)
		13C-2,3,4,7,8-PeCDF		62.6	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		59.9	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		66.3	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		65.1	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		59.2	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		62.5	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		62.3	(26%-138%)
		37Cl-2,3,7,8-TCDD		72.3	(35%-197%)
21309003	SIB-SW-WR15-050522	13C-2,3,7,8-TCDD		65.2	(25%-164%)
		13C-1,2,3,7,8-PeCDD		69.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		65.0	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		70.4	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		67.0	(23%-140%)
		13C-OCDD		56.0	(17%-157%)
		13C-2,3,7,8-TCDF		64.9	(24%-169%)
		13C-1,2,3,7,8-PeCDF		64.6	(24%-185%)
		13C-2,3,4,7,8-PeCDF		71.9	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		66.4	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		68.6	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		70.1	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		66.5	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		63.3	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		69.0	(26%-138%)
		37Cl-2,3,7,8-TCDD		81.0	(35%-197%)
21309004	SIB-SW-WR428-050522	13C-2,3,7,8-TCDD		60.6	(25%-164%)
		13C-1,2,3,7,8-PeCDD		66.2	(25%-181%)

Hi-Res Dioxins/Furans
Surrogate Recovery Report

SDG Number: 21309

Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
21309004	SIB-SW-WR428-050522	13C-1,2,3,4,7,8-HxCDD		61.8	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		67.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		62.3	(23%-140%)
		13C-OCDD		55.4	(17%-157%)
		13C-2,3,7,8-TCDF		62.3	(24%-169%)
		13C-1,2,3,7,8-PeCDF		59.9	(24%-185%)
		13C-2,3,4,7,8-PeCDF		65.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		62.9	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		65.8	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		66.7	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		62.2	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		61.3	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		63.2	(26%-138%)
		37Cl-2,3,7,8-TCDD		74.2	(35%-197%)
21309005	SIB-SW-WR71-050522	13C-2,3,7,8-TCDD		68.4	(25%-164%)
		13C-1,2,3,7,8-PeCDD		67.4	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		60.9	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		66.6	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		62.0	(23%-140%)
		13C-OCDD		54.2	(17%-157%)
		13C-2,3,7,8-TCDF		64.7	(24%-169%)
		13C-1,2,3,7,8-PeCDF		63.0	(24%-185%)
		13C-2,3,4,7,8-PeCDF		65.8	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		62.2	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		64.2	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		65.9	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		62.8	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		63.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		65.9	(26%-138%)
		37Cl-2,3,7,8-TCDD		85.9	(35%-197%)

* Recovery outside Acceptance Limits
# Column to be used to flag recovery values
D Sample Diluted

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: **21309**
Client ID: **LCS for batch 52695**
Lab Sample ID: **12034326**
Instrument: **HRP722**
Analyst: **MW1**

Sample Type: **Laboratory Control Sample**
Matrix: **WATER**
Analysis Date: **06/24/2023 08:48**
Dilution: **1**
Prep Batch ID: **52695**
Batch ID: **52698**

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	231	116	67-158
40321-76-4	LCS	1,2,3,7,8-PeCDD	1000	986	98.6	70-142
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	1130	113	70-164
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	988	98.8	76-134
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	1090	109	64-162
35822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	1100	110	70-140
3268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	2150	107	78-144
51207-31-9	LCS	2,3,7,8-TCDF	200	224	112	75-158
57117-41-6	LCS	1,2,3,7,8-PeCDF	1000	1080	108	80-134
57117-31-4	LCS	2,3,4,7,8-PeCDF	1000	1090	109	68-160
70648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	1070	107	72-134
57117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	1080	108	84-130
60851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	1090	109	70-156
72918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	1060	106	78-130
67562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	1150	115	82-122
55673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	1160	116	78-138
39001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	2430	122	63-170

Hi-Res Dioxins/Furans

Quality Control Summary
Spike Recovery Report

SDG Number: **21309**
Client ID: **LCSD for batch 52695**
Lab Sample ID: **12034327**
Instrument: **HRP722**
Analyst: **MW1**

Sample Type: **Laboratory Control Sample Duplicate**
Matrix: **WATER**
Analysis Date: **06/24/2023 09:36**
Dilution: **1**
Prep Batch ID: **52695**
Batch ID: **52698**

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery %	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	213	106	67-158	8.30	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	998	99.8	70-142	1.23	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	991	99.1	70-164	13.4	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	993	99.3	76-134	0.541	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	1050	105	64-162	4.24	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	1020	102	70-140	7.71	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	1980	98.9	78-144	8.13	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	224	112	75-158	0.00894	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	1040	104	80-134	3.77	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	1080	108	68-160	0.973	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	1010	101	72-134	5.48	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	1000	100	84-130	7.42	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	1030	103	70-156	5.76	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	1080	108	78-130	1.39	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	1090	109	82-122	4.76	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	1070	107	78-138	8.11	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	2240	112	63-170	8.11	0-20

Method Blank Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Matrix:**	**WATER**
Client ID:	**MB for batch 52695**	**Instrument ID:**	**HRP722**	**Data File:**	**f23jun23a_3-3**
Lab Sample ID:	**12034325**	**Prep Date:**	**23-MAY-23**	**Analyzed:**	**06/24/23 10:25**
Column:					

This method blank applies to the following samples and quality control samples:

	Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01	LCS for batch 52695	12034326	f23jun23a_3-1	06/24/23	0848
02	LCSD for batch 52695	12034327	f23jun23a_3-2	06/24/23	0936
03	SIB-SW-WR198-050522	21309001	f23jun23a_3-9	06/24/23	1518
04	SIB-SW-WR186-050522	21309002	f23jun23a_3-10	06/24/23	1607
05	SIB-SW-WR15-050522	21309003	f23jun23a_3-11	06/24/23	1656
06	SIB-SW-WR428-050522	21309004	f23jun23a_3-12	06/24/23	1745
07	SIB-SW-WR71-050522	21309005	f23jun23a_3-13	06/24/23	1834

Sample Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309001**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR198-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 15:18**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-9**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**925.9 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.94	pg/L	2.94	5.40
40321-76-4	1,2,3,7,8-PeCDD	U	3.22	pg/L	3.22	27.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.37	pg/L	3.37	54.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.94	pg/L	2.94	54.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.13	pg/L	3.13	54.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	5.68	pg/L	5.68	54.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	13.4	pg/L	9.96	108
51207-31-9	2,3,7,8-TCDF	U	3.15	pg/L	3.15	10.8
57117-41-6	1,2,3,7,8-PeCDF	U	2.46	pg/L	2.46	54.0
57117-31-4	2,3,4,7,8-PeCDF	U	2.20	pg/L	2.20	54.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.24	pg/L	1.24	54.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.20	pg/L	1.20	54.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.32	pg/L	1.32	54.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.16	pg/L	2.16	54.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.71	pg/L	1.71	54.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.61	pg/L	2.61	54.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.84	pg/L	7.84	108
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.94	pg/L	2.94	10.8
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	3.22	pg/L	3.22	54.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.94	pg/L	2.94	54.0
TCDF	Total Tetrachlorodibenzofuran	U	3.15	pg/L	3.15	10.8
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	5.68	pg/L	5.68	54.0
30402-15-4	Total Pentachlorodibenzofuran	U	0.797	pg/L	0.797	54.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.20	pg/L	1.20	54.0
38998-75-3	Total Heptachlorodibenzofuran	U	1.71	pg/L	1.71	54.0
TEQ	TEQ WHO2005 ND=0		0.00402	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.43	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1310	2160	pg/L	60.8	(25%-164%)
13C-1,2,3,7,8-PeCDD		1280	2160	pg/L	59.3	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1190	2160	pg/L	55.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1300	2160	pg/L	60.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1220	2160	pg/L	56.6	(23%-140%)
13C-OCDD		2050	4320	pg/L	47.5	(17%-157%)
13C-2,3,7,8-TCDF		1230	2160	pg/L	57.0	(24%-169%)
13C-1,2,3,7,8-PeCDF		1230	2160	pg/L	57.0	(24%-185%)
13C-2,3,4,7,8-PeCDF		1300	2160	pg/L	60.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1240	2160	pg/L	57.3	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1280	2160	pg/L	59.4	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1300	2160	pg/L	60.3	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1160	2160	pg/L	53.7	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309001**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR198-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 15:18**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-9**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**925.9 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1160	2160	pg/L	53.6	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1180	2160	pg/L	54.6	(26%-138%)
37Cl-2,3,7,8-TCDD		169	216	pg/L	78.1	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:59 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	1.69e2	9.04e1	2.59e2	31.32	1.001	1.87	YES	0.056	0.136	6.54e3	2566	2.5	1.99e3	992	2.0	bd	db
2	12378-PeCDD							NO		0.149		2649			1158			
3	123478-HxCDD							NO		0.156		1347			1348			
4	123678-HxCDD							NO		0.136		1347			1348			
5	123789-HxCDD							NO		0.145		1347			1348			
6	1234678-HpCDD	5.49e1	1.09e2	1.64e2	40.13	1.000	0.50	YES	0.057	0.263	3.84e3	1416	2.7	5.99e3	1954	3.1	bb	bb
7	OCDD	5.40e2	5.55e2	1.09e3	44.37	1.001	0.97	NO	0.620	0.461	9.22e3	1568	5.9	7.80e3	1072	7.3	MM	MM
8	2378-TCDF							NO		0.146		1800			3042			
9	12378-PeCDF	8.83e1	1.55e2	2.43e2	33.37	1.001	0.57	YES	0.032	0.114	3.99e3	1669	2.4	7.53e3	4704	1.6	bd	bb
10	23478-PeCDF							NO		0.102		1669			4704			
11	123478-HxCDF							NO		0.0574		1363			851			
12	123678-HxCDF							NO		0.0554		1363			851			
13	234678-HxCDF	6.67e1	6.63e1	1.33e2	36.64	1.000	1.00	YES	0.023	0.0612	2.50e3	1363	1.8	2.61e3	851	3.1	bb	bb
14	123789-HxCDF							NO		0.100		1363			851			
15	1234678-HpCDF							NO		0.0792		1338			1077			
16	1234789-HpCDF							NO		0.121		1338			1077			
17	OCDF							NO		0.363		1270			2023			
18	13C-2378-TCDD	1.87e5	2.37e5	4.24e5	31.28	1.017	0.79	NO	60.759	0.286	2.62e6	6554	400.3	3.26e6	3192	1021.9	bd	bd
19	13C-12378-PeCDD	1.80e5	1.15e5	2.95e5	34.15	1.110	1.57	NO	59.324	0.378	3.36e6	4358	770.5	1.99e6	4839	411.7	bd	bd
20	13C-123478-HxCDD	1.36e5	1.04e5	2.40e5	36.77	0.991	1.30	NO	55.118	0.807	2.28e6	11009	207.4	1.79e6	6475	276.7	bd	bd
21	13C-123678-HxCDD	1.79e5	1.39e5	3.18e5	36.85	0.994	1.29	NO	60.251	0.666	2.61e6	11009	237.5	1.99e6	6475	306.6	dd	dd
22	13C-1234678-HpCDD	1.21e5	1.12e5	2.33e5	40.14	1.082	1.07	NO	56.639	0.560	1.35e6	5725	235.7	1.20e6	5727	209.6	bd	bd
23	13C-OCDD	1.47e5	1.72e5	3.19e5	44.34	1.196	0.85	NO	95.021	0.758	1.19e6	5931	200.7	1.35e6	6716	201.0	bd	bd
24	13C-2378-TCDF	2.71e5	3.34e5	6.05e5	30.58	0.994	0.81	NO	56.980	0.140	2.75e6	3873	709.7	3.36e6	3385	991.0	bd	bb
25	13C-12378-PeCDF	3.70e5	2.30e5	6.00e5	33.35	1.084	1.61	NO	57.002	0.553	6.76e6	17406	388.2	4.15e6	11054	375.2	bb	bb
26	13C-23478-PeCDF	3.70e5	2.27e5	5.98e5	33.97	1.104	1.63	NO	60.271	0.587	6.91e6	17406	397.2	4.11e6	11054	371.6	bb	bb
27	13C-123478-HxCDF	1.33e5	2.47e5	3.80e5	36.04	0.972	0.54	NO	57.254	0.682	2.38e6	11172	213.0	4.19e6	11349	368.9	bd	bd
28	13C-123678-HxCDF	1.62e5	3.26e5	4.88e5	36.14	0.975	0.50	NO	59.356	0.551	2.41e6	11172	216.0	4.66e6	11349	410.3	db	dd
29	13C-234678-HxCDF	1.38e5	2.77e5	4.15e5	36.63	0.988	0.50	NO	60.274	0.659	2.11e6	11172	188.9	4.15e6	11349	365.5	bb	dd
30	13C-123789-HxCDF	1.13e5	2.16e5	3.29e5	37.40	1.009	0.53	NO	53.746	0.740	1.46e6	11172	130.7	2.62e6	11349	231.0	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:59 PM Eastern Daylight Time

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.36e5	2.88e5	4.24e5	38.88	1.048	0.47	NO	53.644	0.725	1.77e6	11908	148.7	3.81e6	16575	229.8	bd	bb
32	13C-1234789-HpCDF	1.00e5	2.36e5	3.37e5	40.83	1.101	0.42	NO	54.597	0.930	1.09e6	11908	91.2	2.48e6	16575	149.8	bd	bb
33	13C-1234-TCDD	2.78e5	3.34e5	6.12e5	30.77	0.000	0.83	NO	100.000	0.326	3.40e6	6554	519.2	3.91e6	3192	1225.6	bb	bd
34	13C-123789-HxCDD	2.90e5	2.24e5	5.14e5	37.08	0.000	1.30	NO	100.000	0.684	3.61e6	11009	327.8	2.92e6	6475	450.8	dd	dd
35	37Cl-2378-TCDD	5.37e4		5.37e4	31.30	1.017			7.806	0.0722	7.74e5	2428	318.7				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-9, ID:21309001-1, Description: 52698

M	M2
7 OCDD 44.37 - AB	7 OCDD 44.37 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:59 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	6.77e1	6.46e1	1.32e2	27.83	1.05	YES	0.028	0.136	3.02e3	2566	1.2	2.55e3	992	2.6	bb	bb
2	Total-tetradioxins	8.67e1	8.60e1	1.73e2	31.95	1.01	YES	0.037	0.136	5.48e3	2566	2.1	4.98e3	992	5.0	bb	bb
3	Total-tetradioxins	1.58e2	6.51e1	2.23e2	31.53	2.42	YES	0.048	0.136	2.82e3	2566	1.1	1.39e3	992	1.4	db	bb
4	2378-TCDD	1.69e2	9.04e1	2.59e2	31.32	1.87	YES	0.056	0.136	6.54e3	2566	2.5	1.99e3	992	2.0	bd	db
5	Total-tetradioxins	8.75e1	7.07e1	1.58e2	29.53	1.24	YES	0.034	0.136	1.79e3	2566	0.7	1.87e3	992	1.9	bb	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	5.95e1	6.50e1	1.25e2	36.08	0.92	YES	0.042	0.145	1.11e3	1347	0.8	5.50e3	1348	4.1	bd	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDD	5.49e1	1.09e2	1.64e2	40.13	0.50	YES	0.057	0.263	3.84e3	1416	2.7	5.99e3	1954	3.1	bb	bb
2	Total-heptadioxins	2.57e2	6.25e1	3.20e2	38.88	4.11	YES	0.112	0.263	9.68e3	1416	6.8	2.58e3	1954	1.3	bd	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:59 PM Eastern Daylight Time

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	7.03e1	5.44e1	1.25e2	29.40	1.29	YES	0.015	0.146	1.57e3	1800	0.9	3.66e3	3042	1.2	bb	bb
2	Total-tetrafurans	5.67e1	5.62e1	1.13e2	29.06	1.01	YES	0.014	0.146	3.45e3	1800	1.9	3.55e3	3042	1.2	bb	bb
3	Total-tetrafurans	9.91e1	7.39e1	1.73e2	27.57	1.34	YES	0.021	0.146	5.62e3	1800	3.1	4.42e3	3042	1.5	bb	bb
4	Total-tetrafurans	1.40e2	1.90e2	3.30e2	26.79	0.74	NO	0.040	0.146	7.91e3	1800	4.4	8.69e3	3042	2.9	db	bb
5	Total-tetrafurans	6.37e1	1.14e2	1.77e2	26.68	0.56	YES	0.022	0.146	2.03e3	1800	1.1	3.71e3	3042	1.2	bd	bb
6	Total-tetrafurans	1.42e2	1.48e2	2.90e2	26.57	0.96	YES	0.035	0.146	8.95e3	1800	5.0	2.63e3	3042	0.9	bb	bb
7	Total-tetrafurans	1.09e2	2.20e2	3.29e2	31.85	0.50	YES	0.040	0.146	5.73e3	1800	3.2	5.47e3	3042	1.8	bb	bb
8	Total-tetrafurans	1.81e2	1.70e2	3.50e2	31.66	1.06	YES	0.043	0.146	1.17e4	1800	6.5	4.53e3	3042	1.5	bb	bb
9	Total-tetrafurans	6.10e1	8.59e1	1.47e2	30.68	0.71	NO	0.018	0.146	3.35e3	1800	1.9	3.89e3	3042	1.3	bb	bb
10	Total-tetrafurans	5.10e1	7.78e1	1.29e2	29.92	0.66	NO	0.016	0.146	1.41e3	1800	0.8	2.71e3	3042	0.9	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	6.79e1	1.25e2	1.93e2	32.16	0.54	YES	0.024	0.0369	2.98e3	671	4.4	2.71e3	1505	1.8	bb	bd

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	12378-PeCDF	8.83e1	1.55e2	2.43e2	33.37	0.57	YES	0.032	0.114	3.99e3	1669	2.4	7.53e3	4704	1.6	bd	bb
2	Total-pentafurans	6.35e1	1.51e2	2.14e2	33.11	0.42	YES	0.027	0.108	3.66e3	1669	2.2	1.14e4	4704	2.4	db	bb
3	Total-pentafurans	9.19e1	7.79e1	1.70e2	33.02	1.18	YES	0.021	0.108	2.98e3	1669	1.8	4.68e3	4704	1.0	bd	bb
4	Total-pentafurans	7.35e1	1.76e2	2.49e2	32.63	0.42	YES	0.031	0.108	6.81e3	1669	4.1	5.67e3	4704	1.2	bb	bb
5	Total-pentafurans	7.98e1	6.46e1	1.44e2	33.51	1.24	YES	0.018	0.108	5.63e3	1669	3.4	2.80e3	4704	0.6	bb	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	234678-HxCDF	6.67e1	6.63e1	1.33e2	36.64	1.00	YES	0.023	0.0612	2.50e3	1363	1.8	2.61e3	851	3.1	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

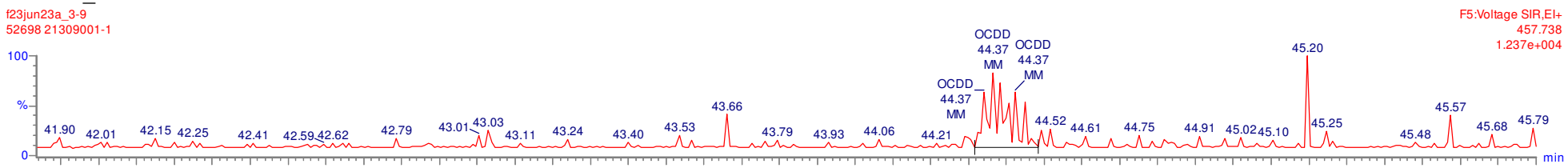
Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:38:59 PM Eastern Daylight Time

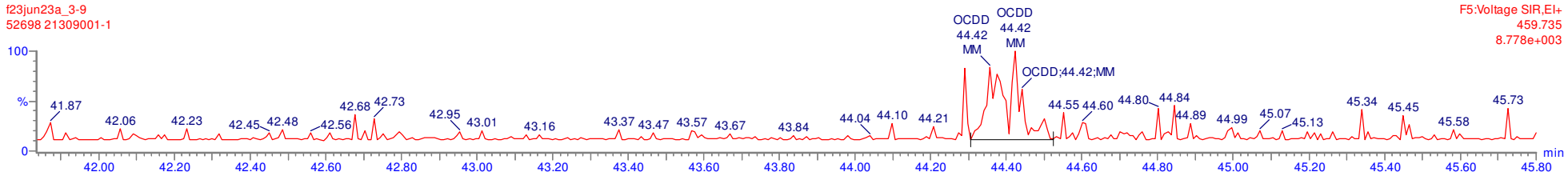
Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

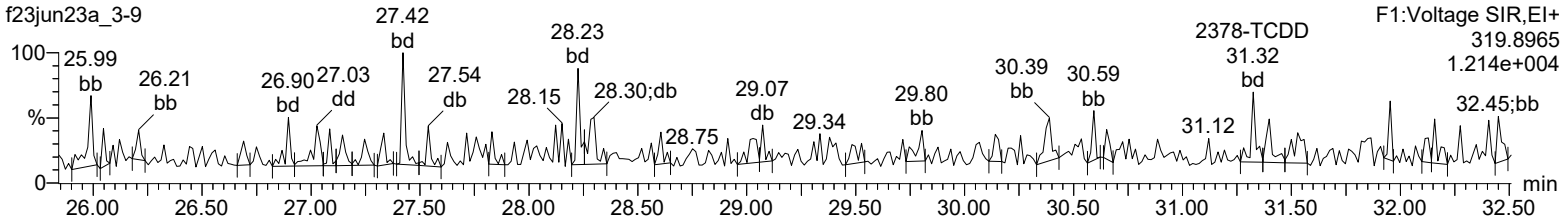
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

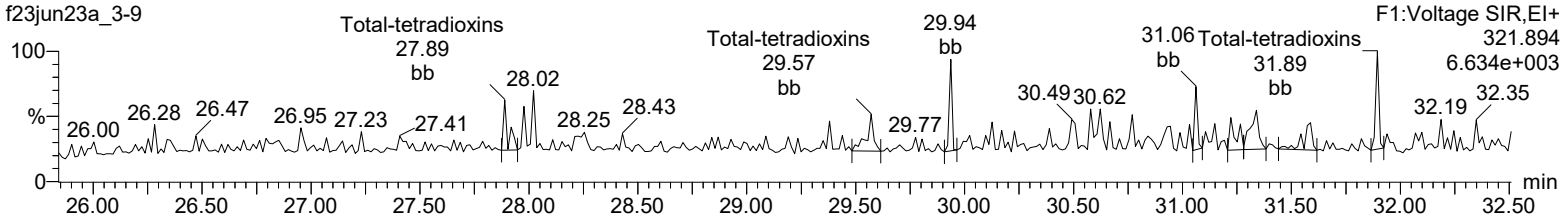
AMA 06/29/2023

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

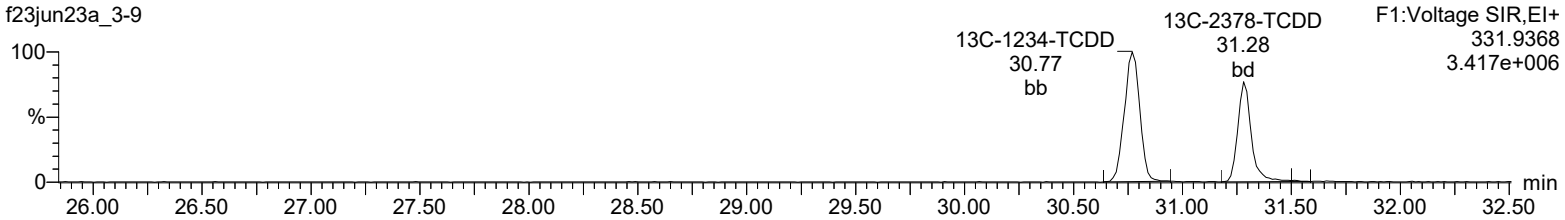
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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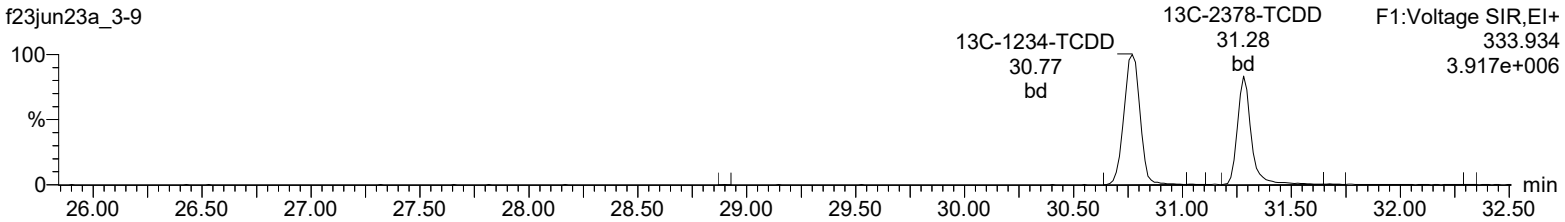
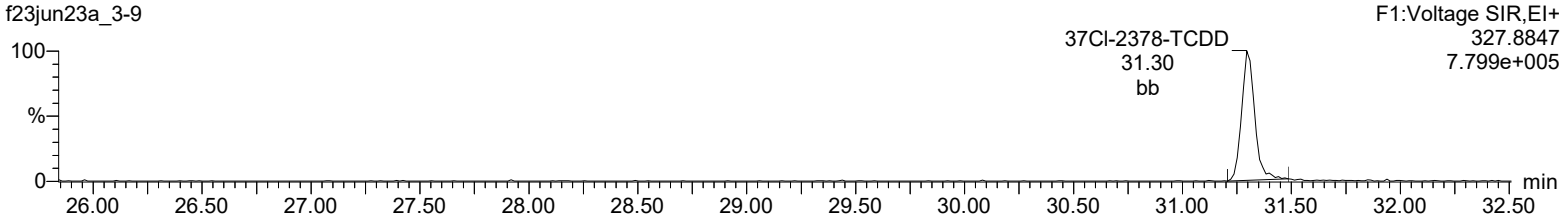
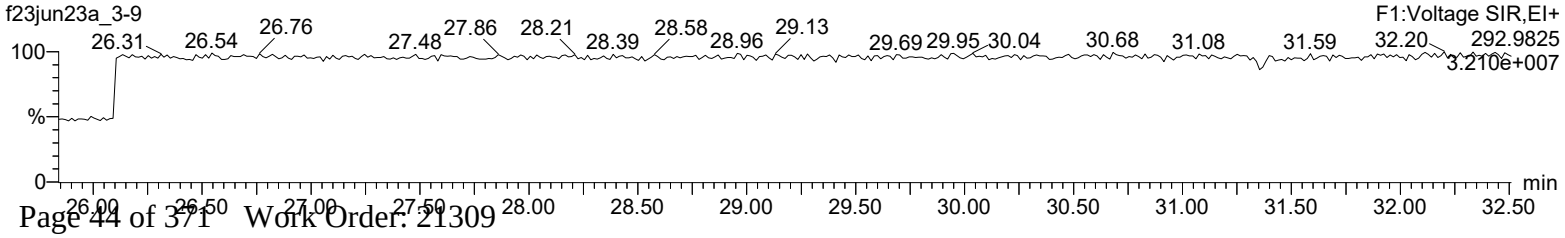


37Cl-2378-TCDD



Lock Mass F1



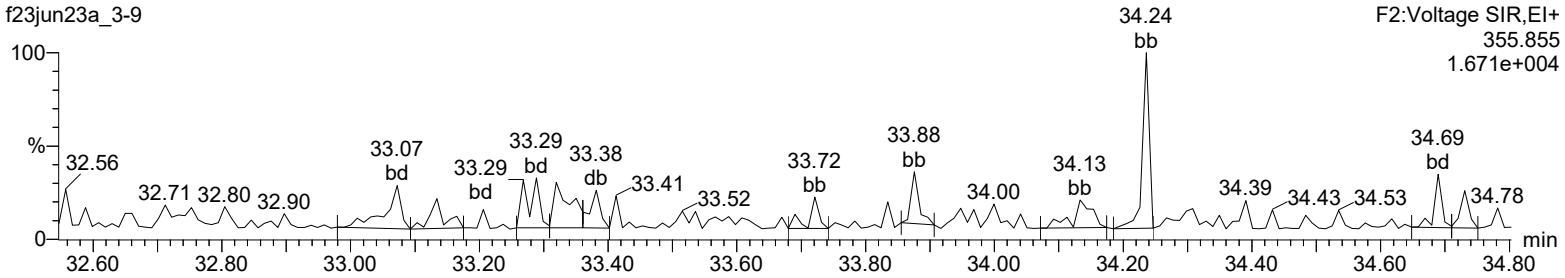
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

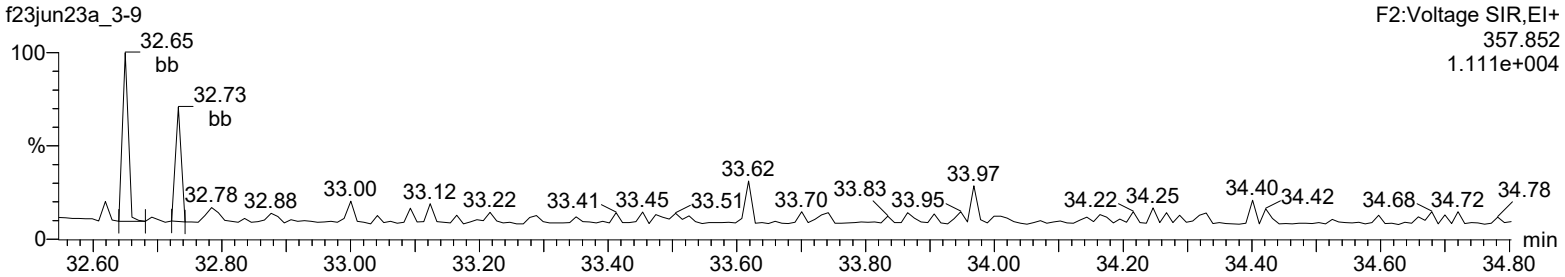
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

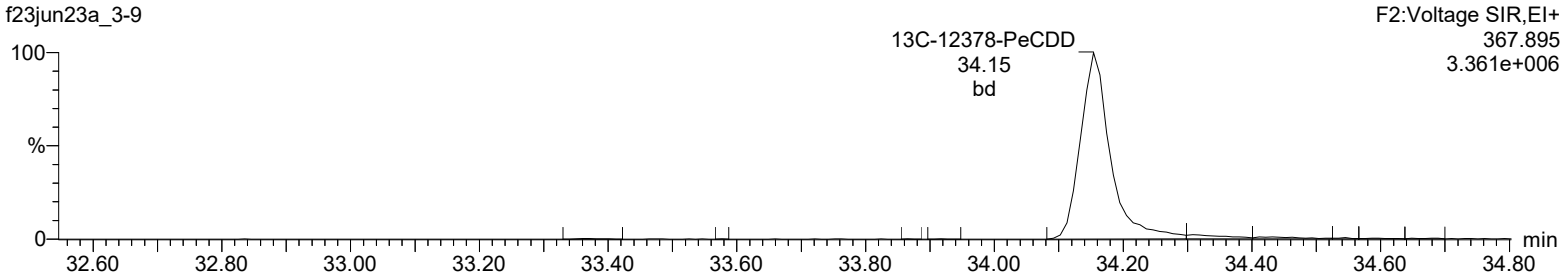
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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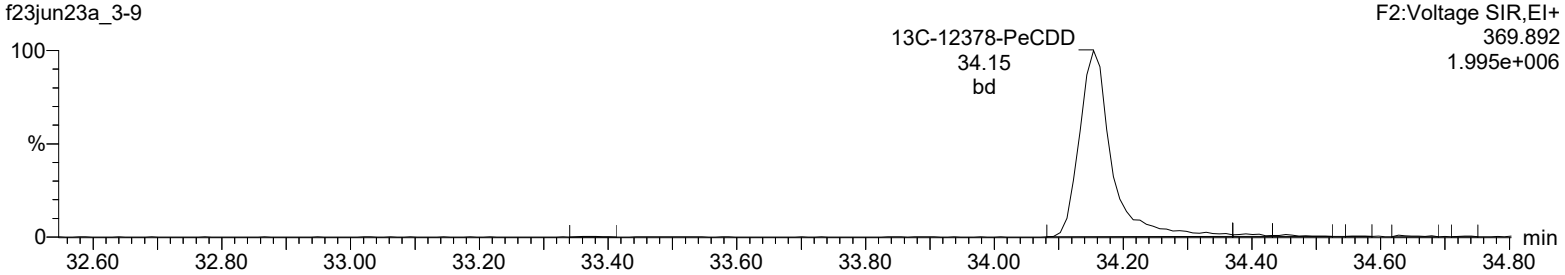
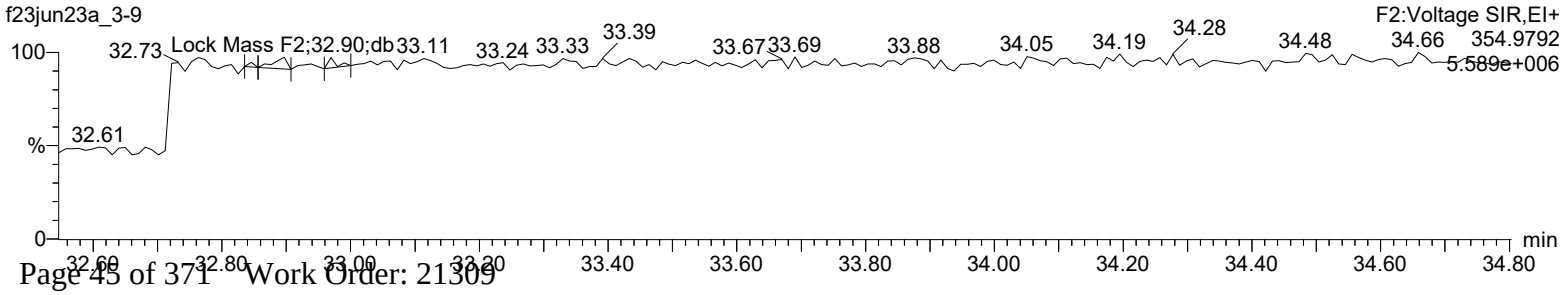


Lock Mass F2



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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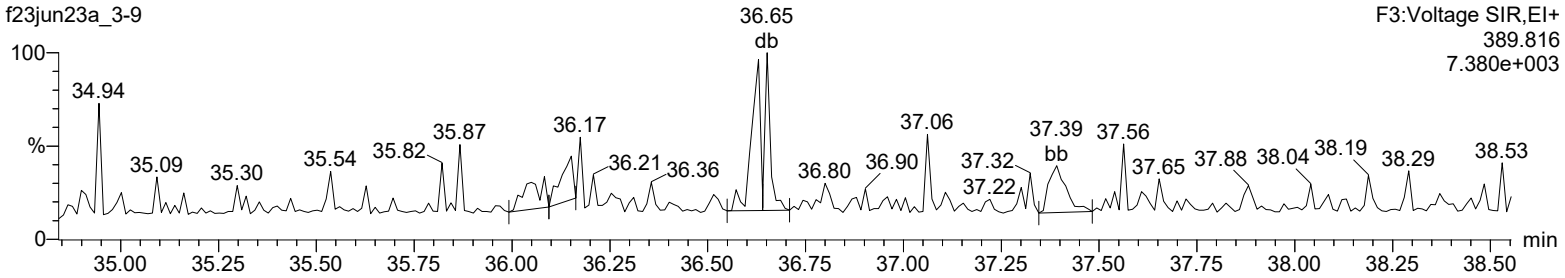
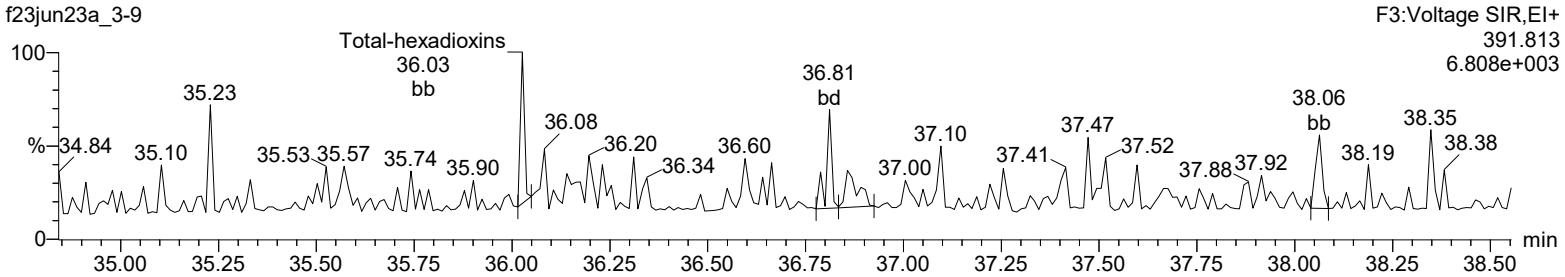
Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

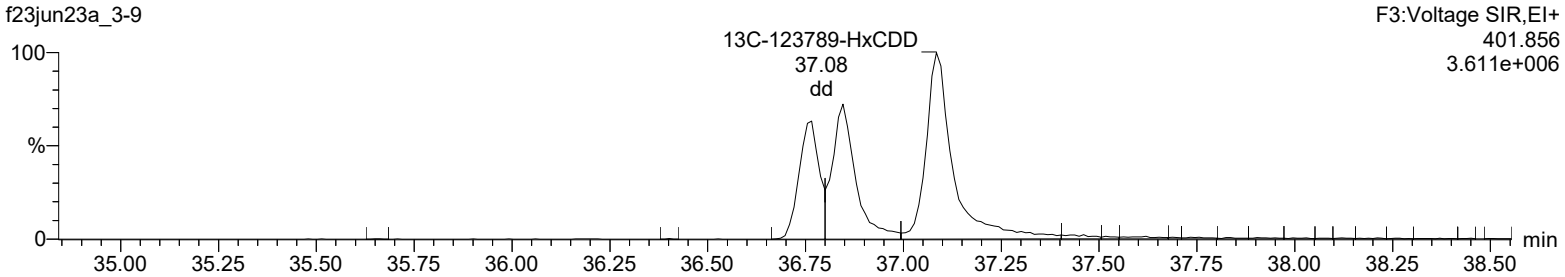
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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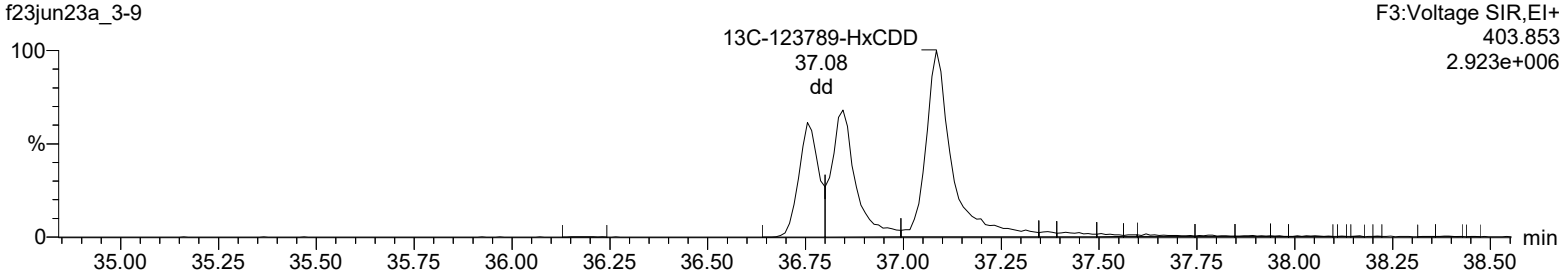
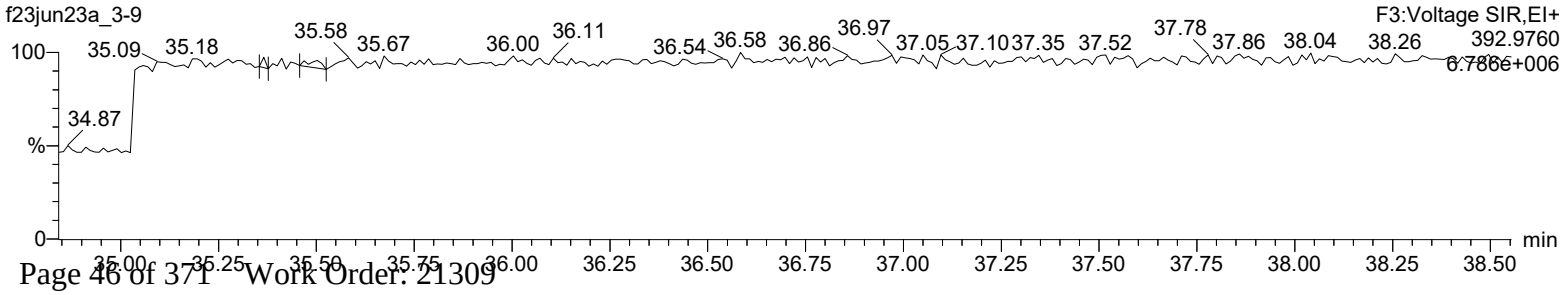


Lock Mass F3



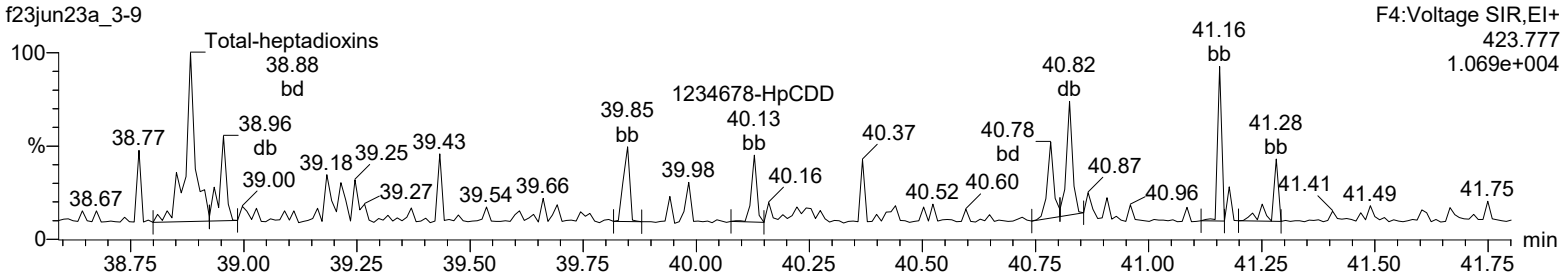
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

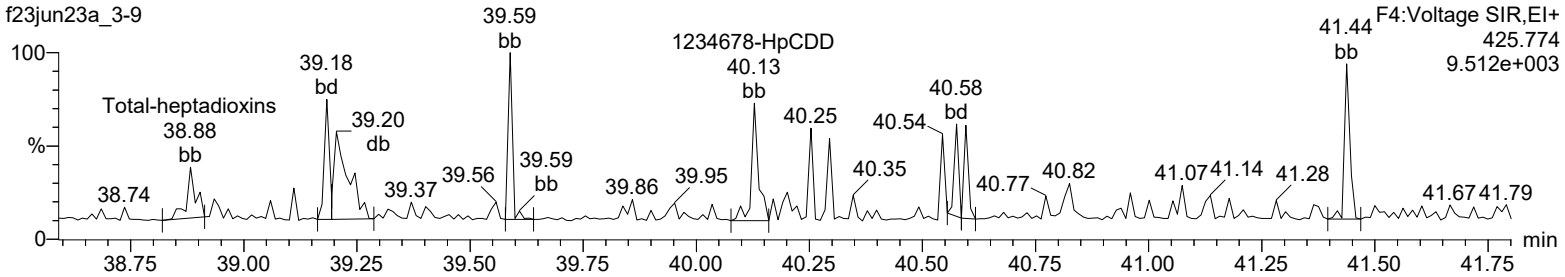
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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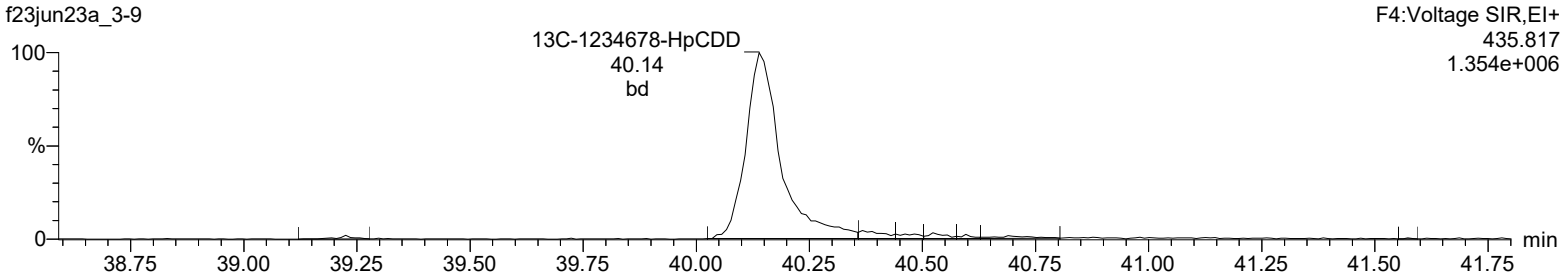

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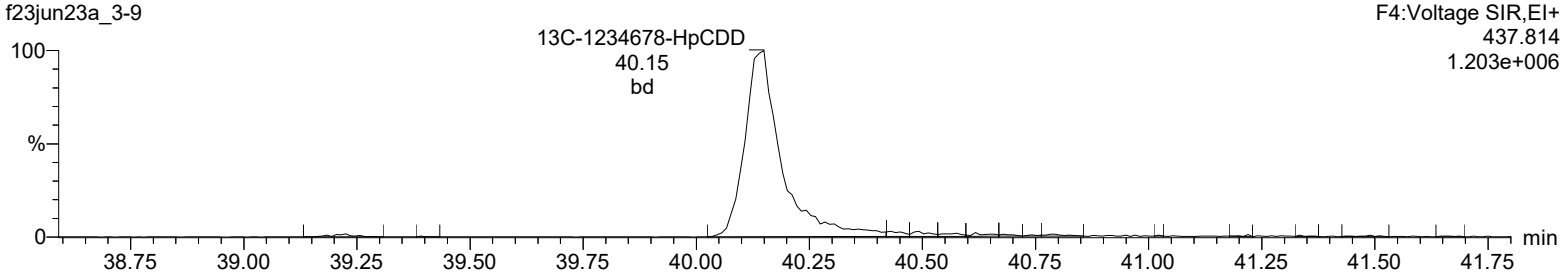
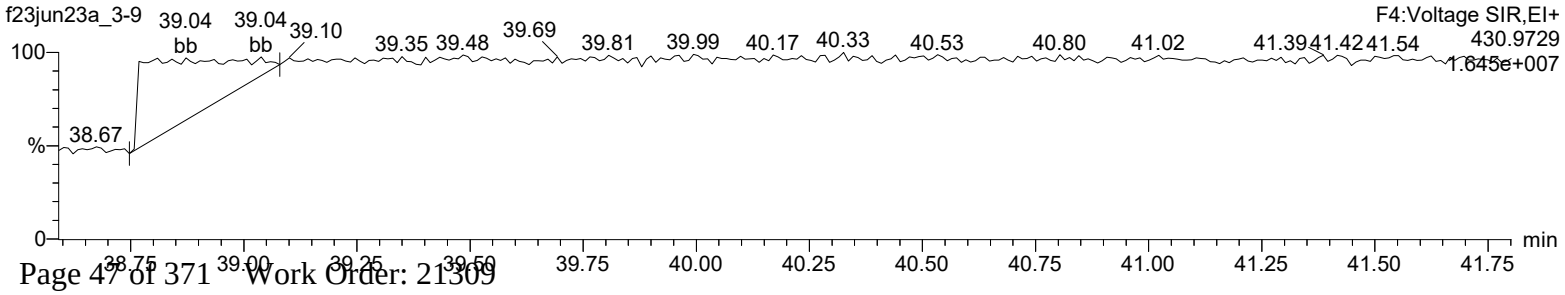


Lock Mass F4



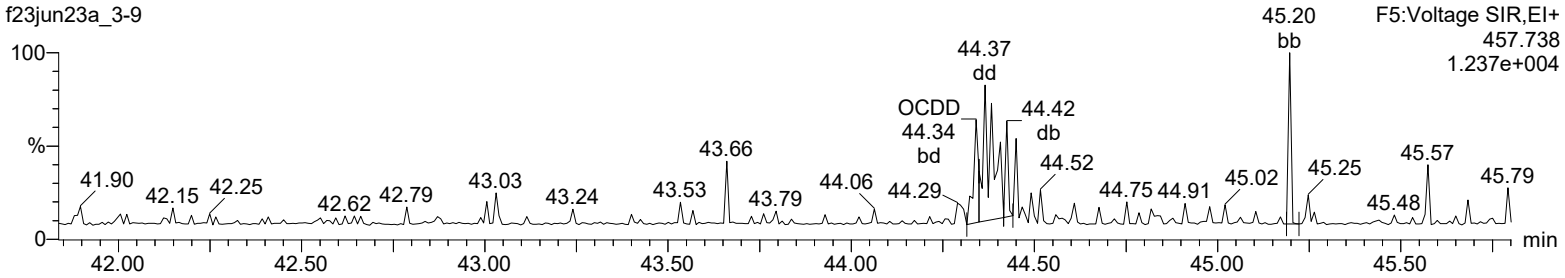
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

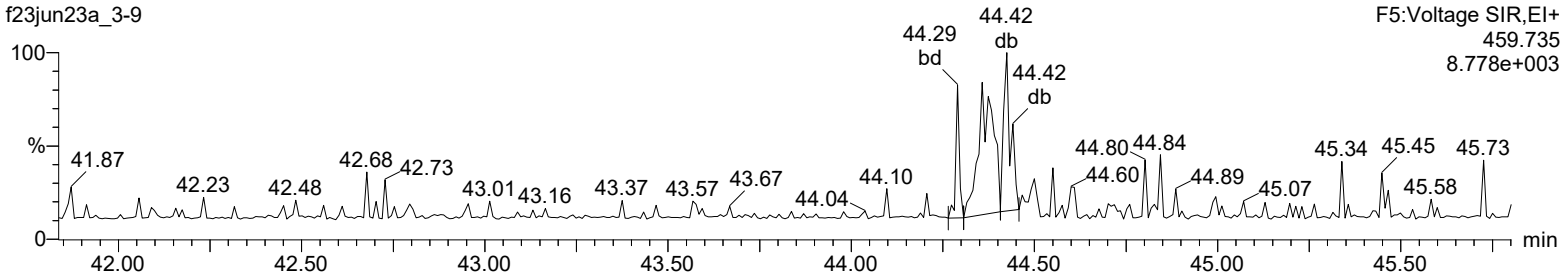
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

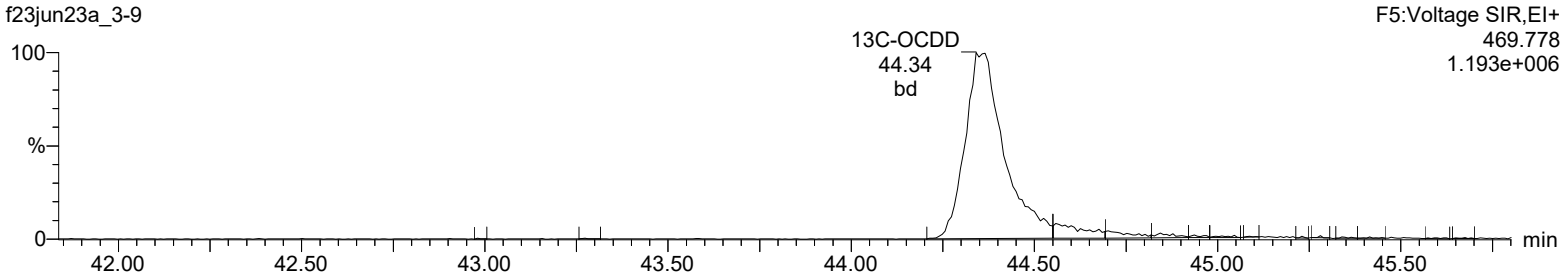
OCDD



OCDD



13C-OCDD



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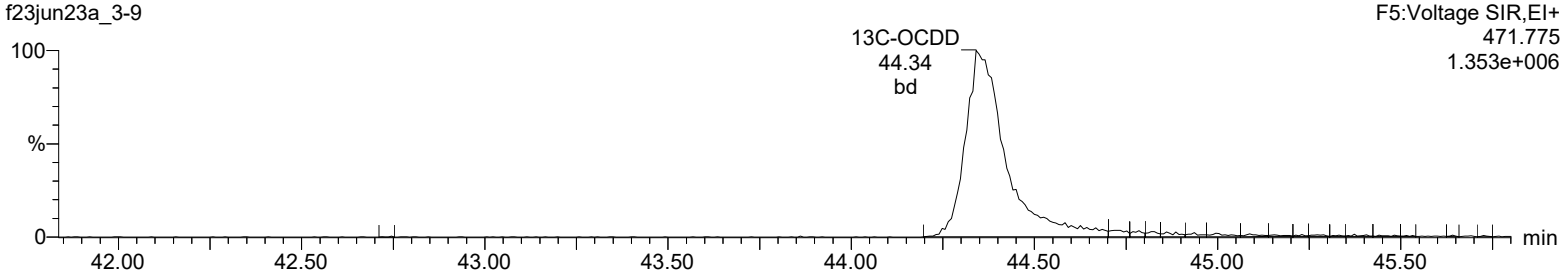
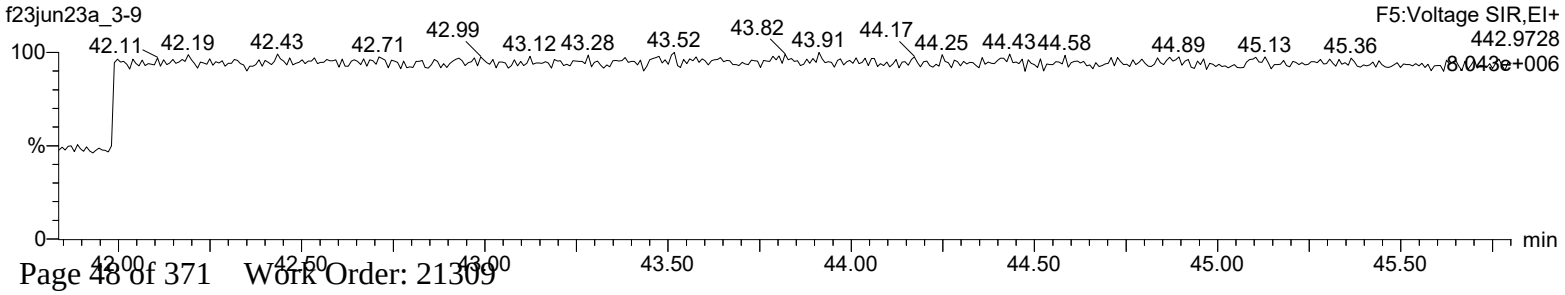


Lock Mass F5



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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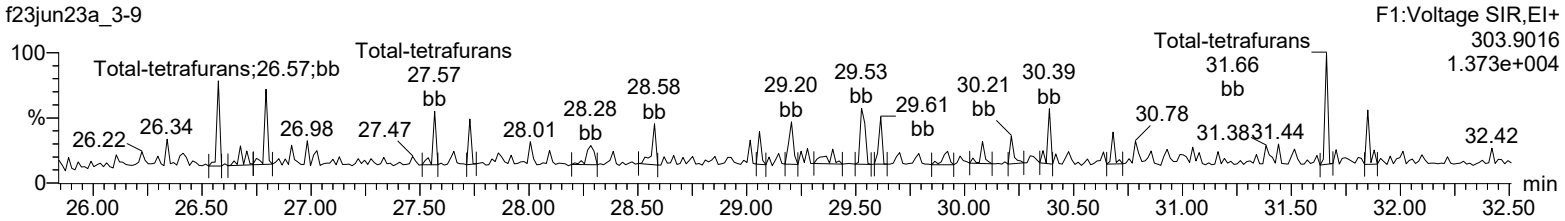
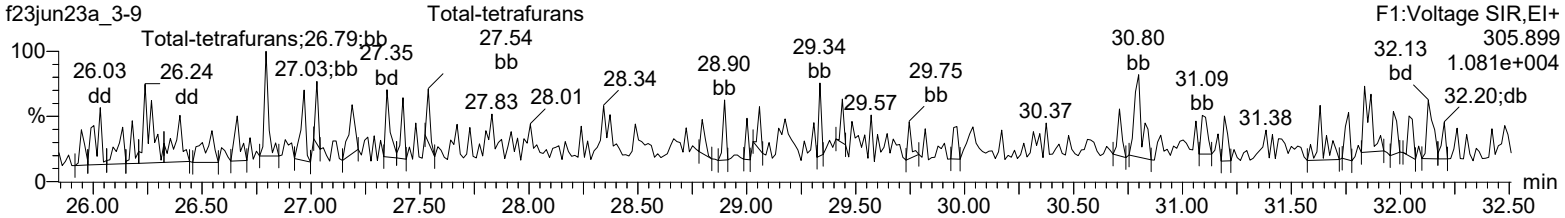
Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

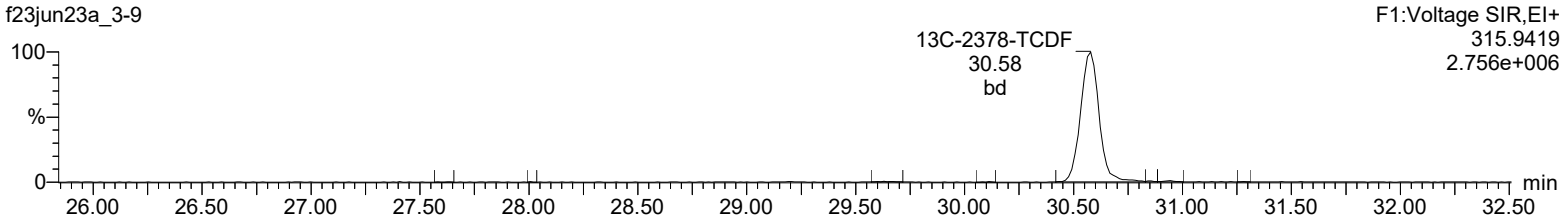
Total-tetrafurans



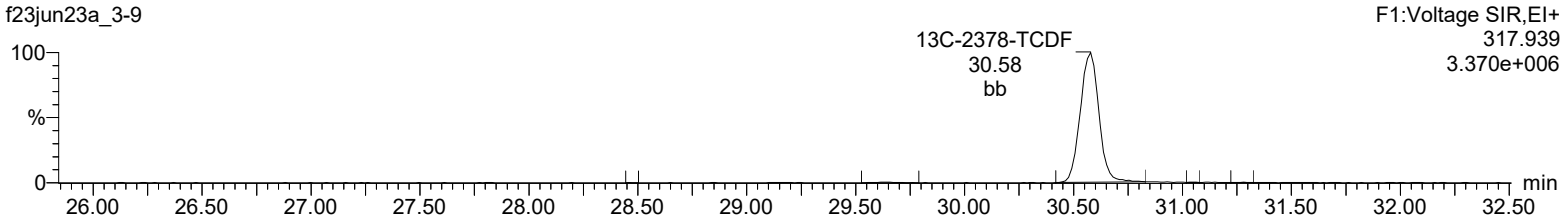
Total-tetrafurans



13C-2378-TCDF



13C-2378-TCDF



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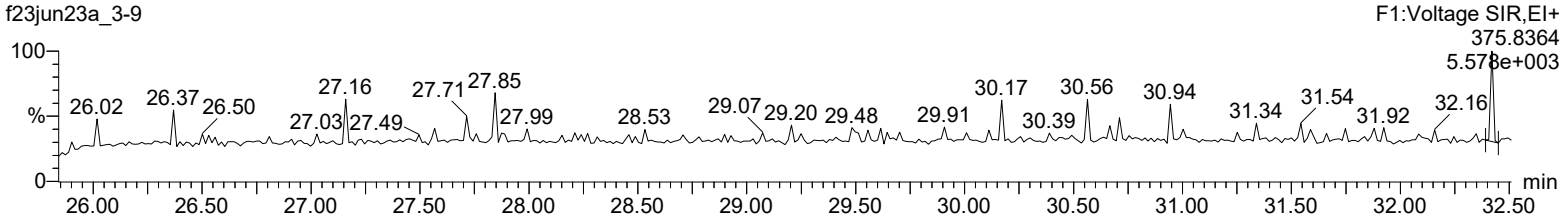
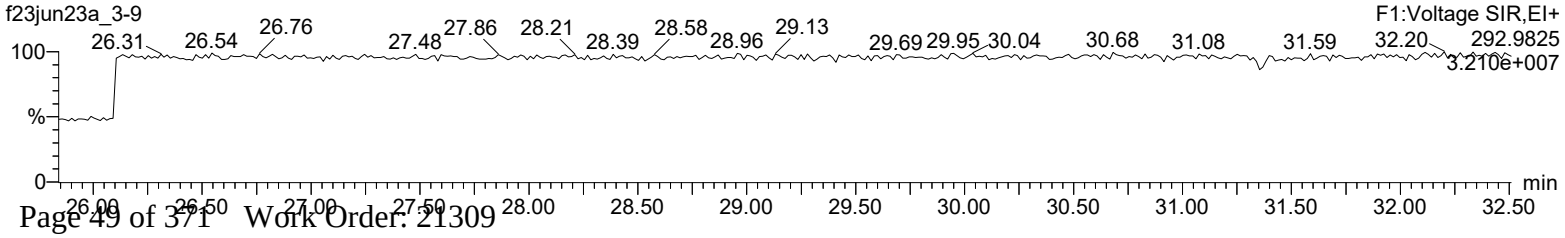


Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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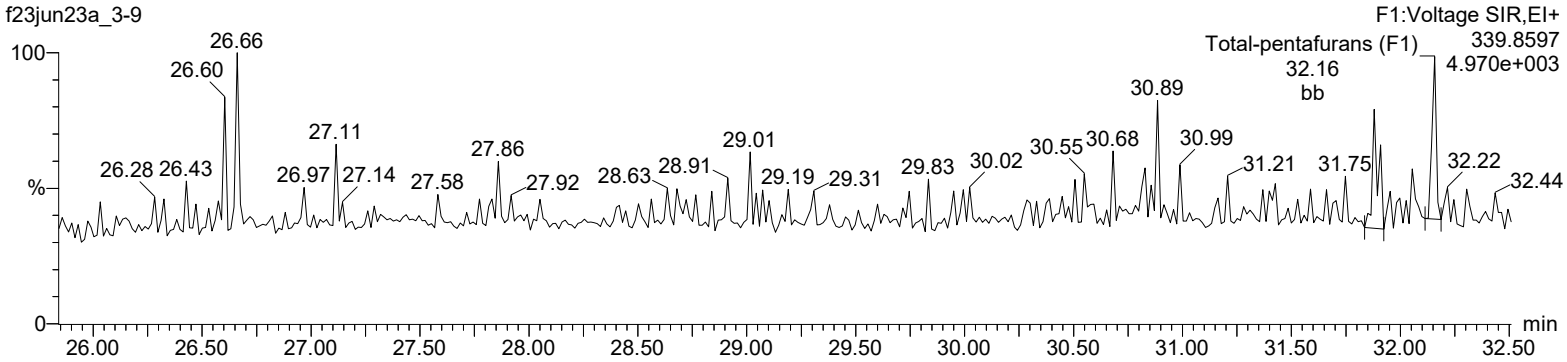
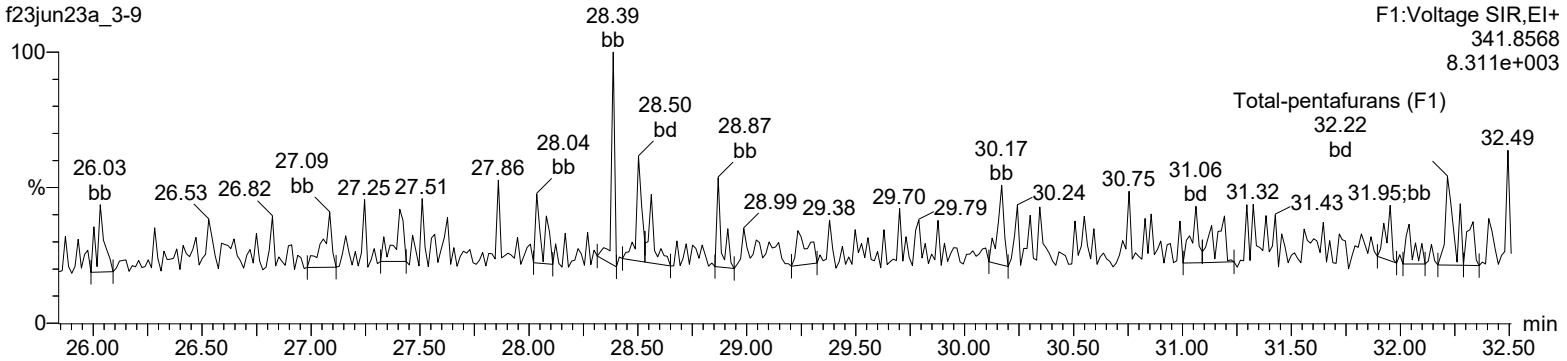
Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

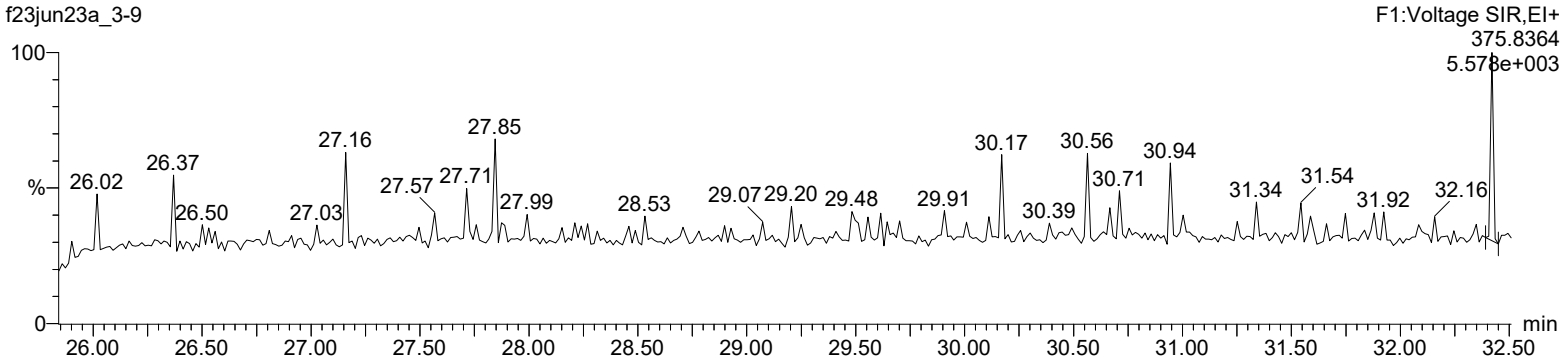
Total-pentafurans (F1)



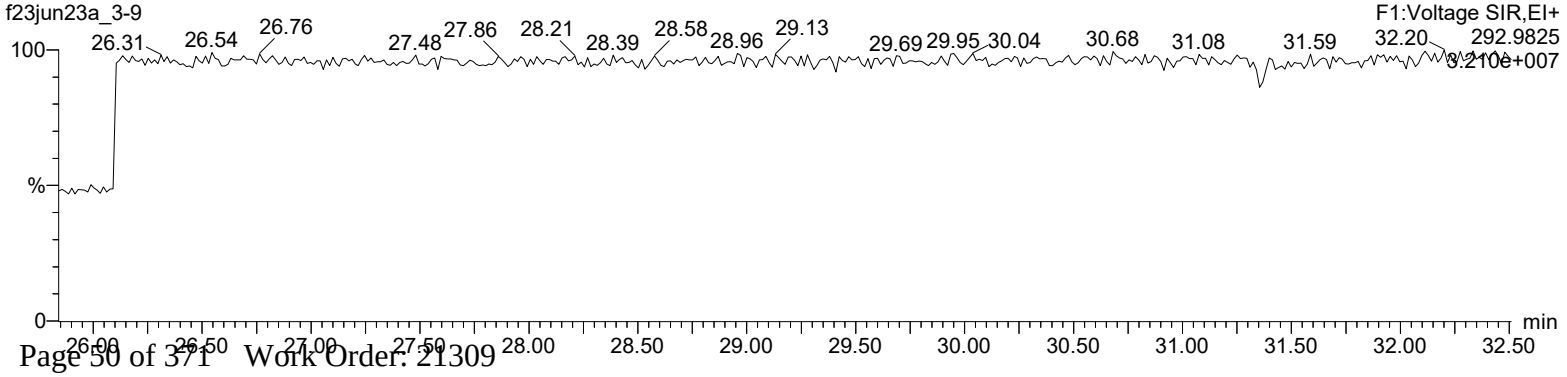
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

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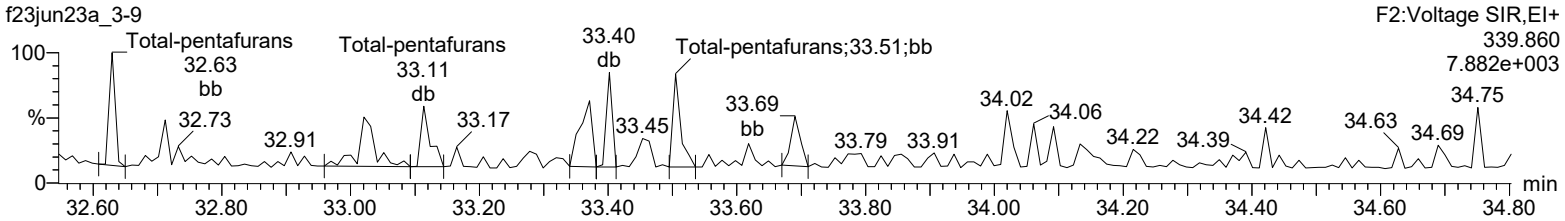
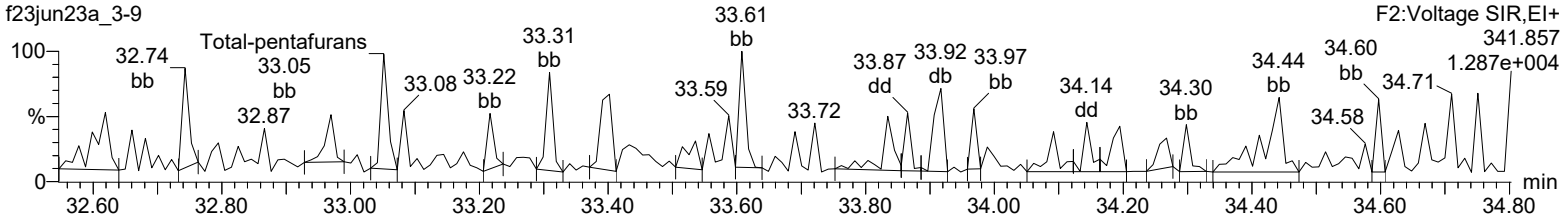
Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

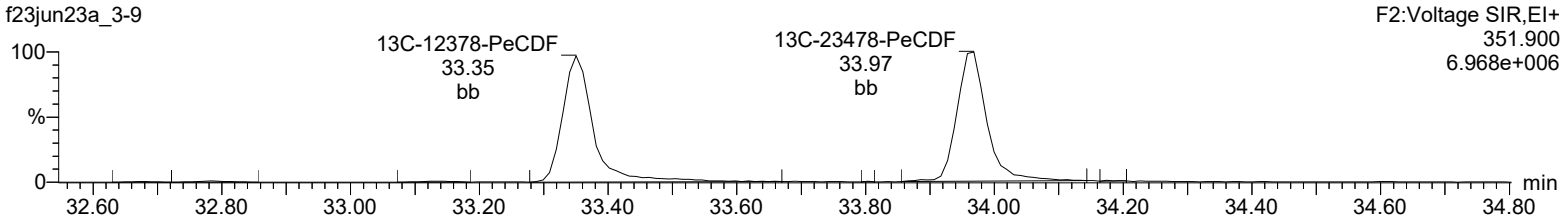
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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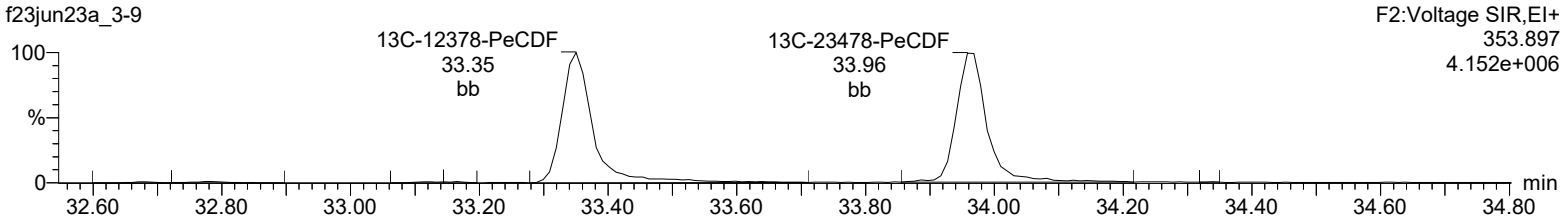
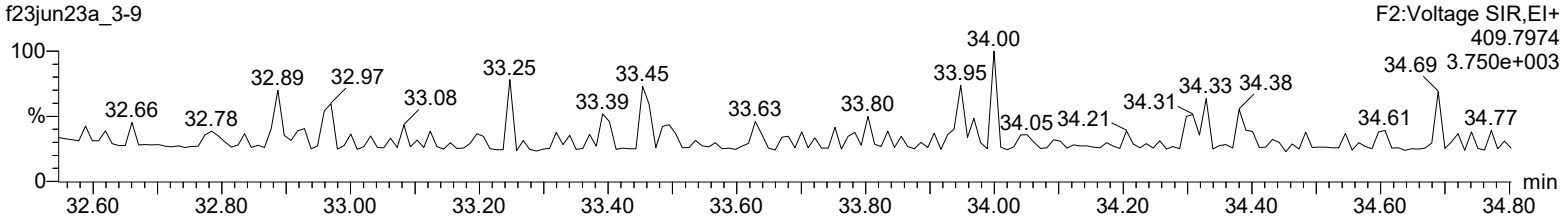
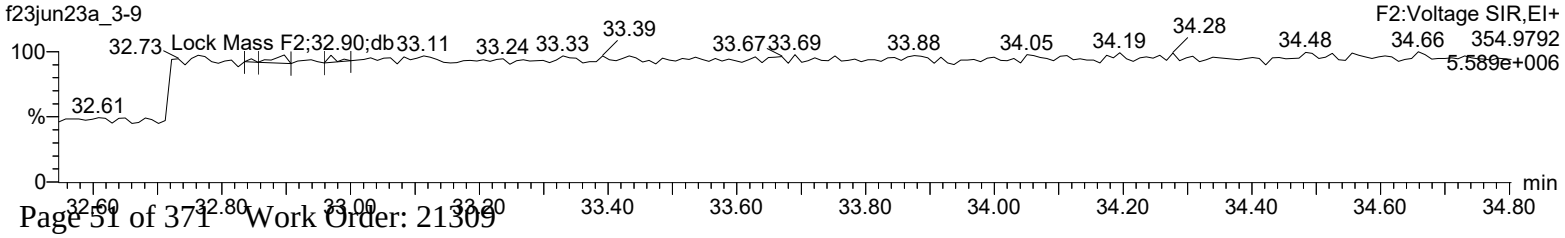


HpDPE



Lock Mass F2



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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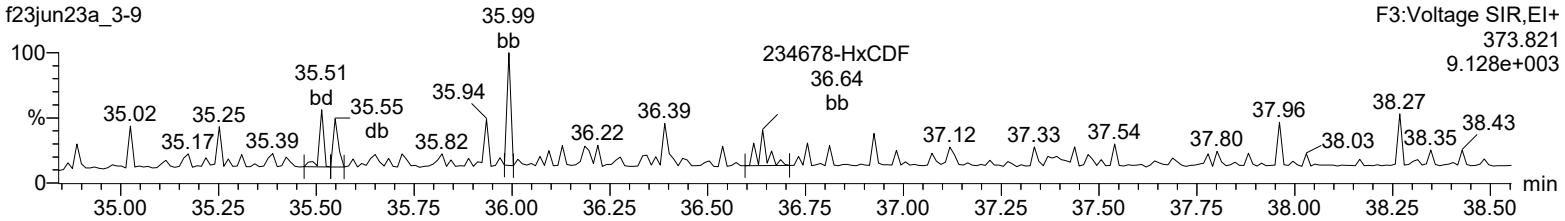
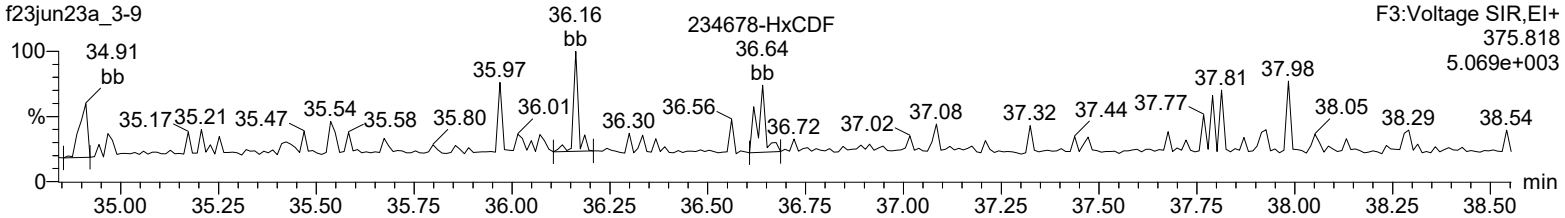
Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

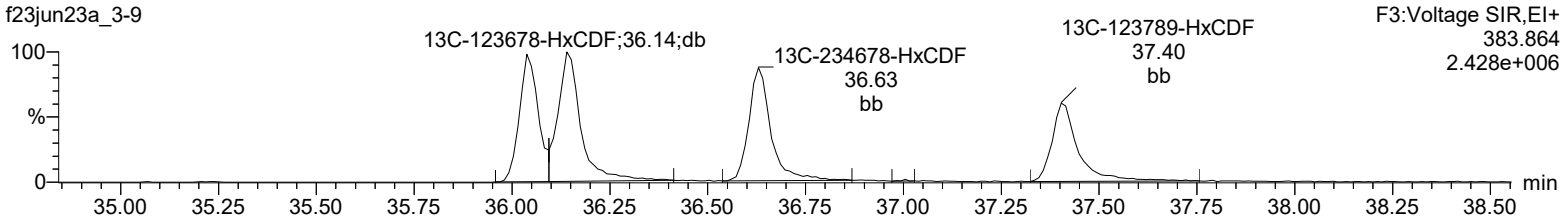
Total-hexafurans



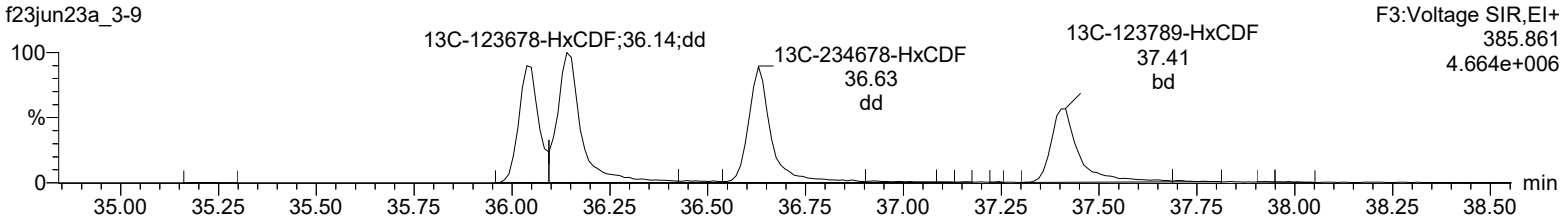
Total-hexafurans



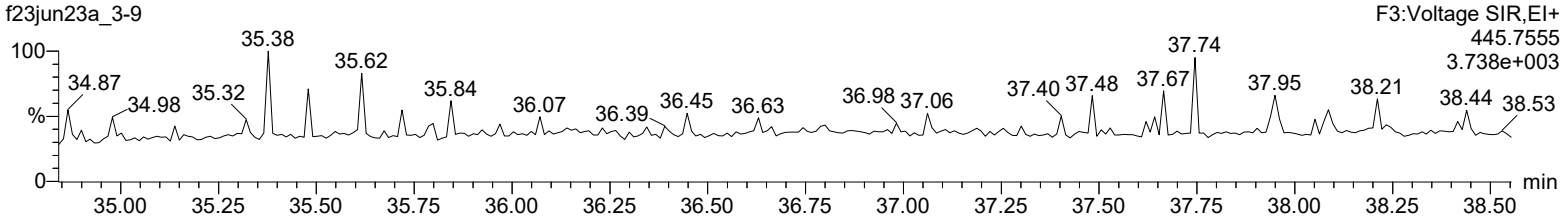
13C-123478-HxCDF



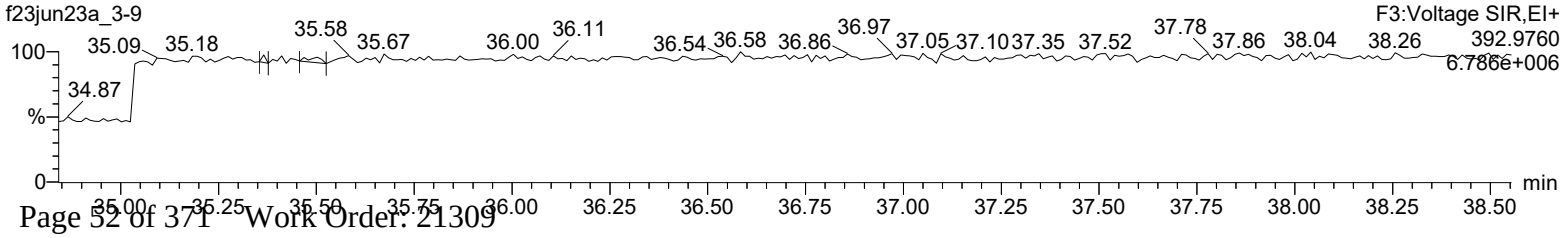
13C-123478-HxCDF



OcDPE



Lock Mass F3



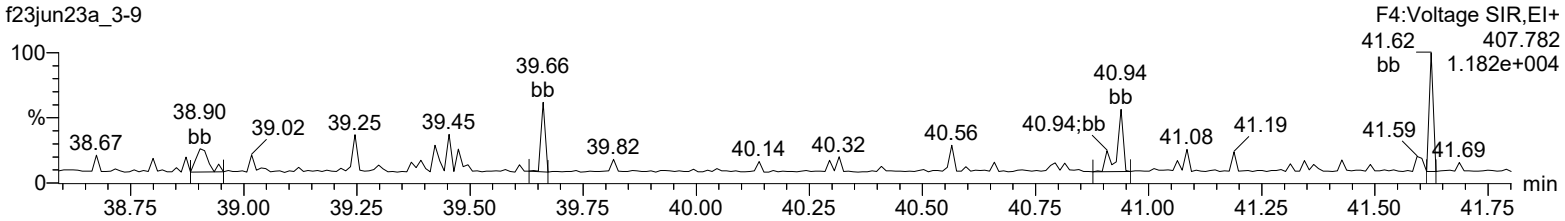
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

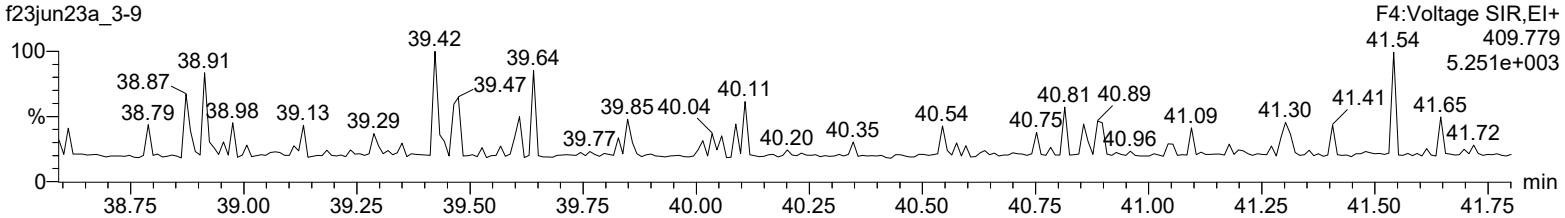
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

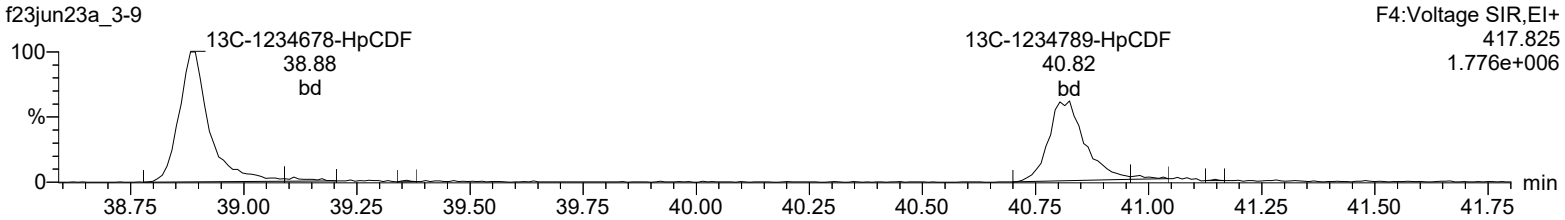
Total-heptafurans



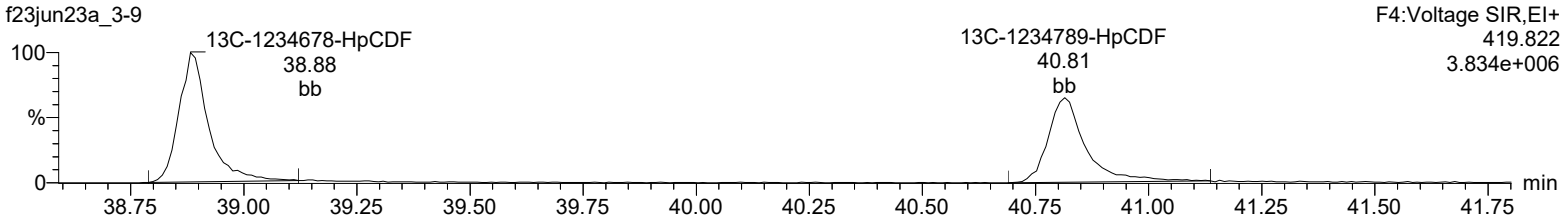
Total-heptafurans



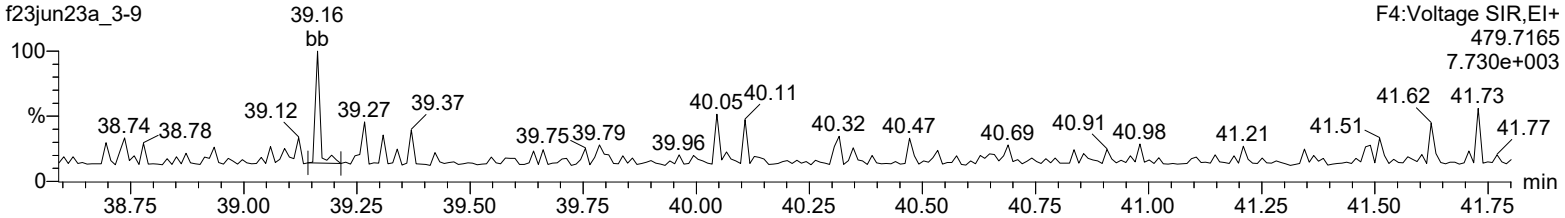
13C-1234678-HpCDF



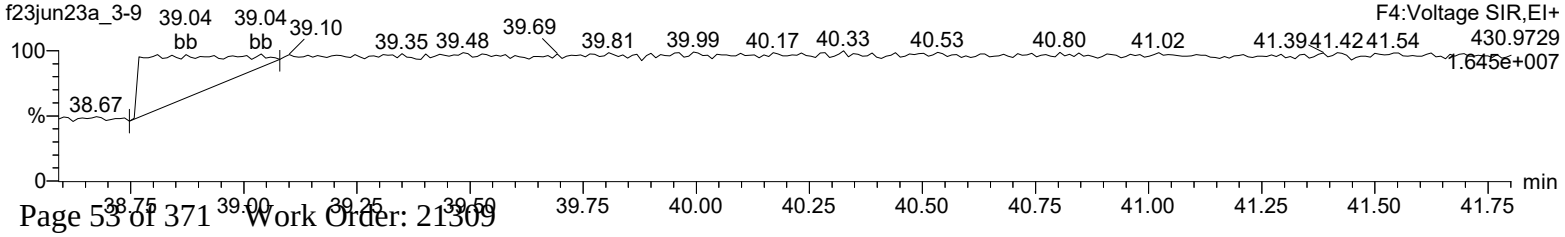
13C-1234678-HpCDF



NoDPE



Lock Mass F4



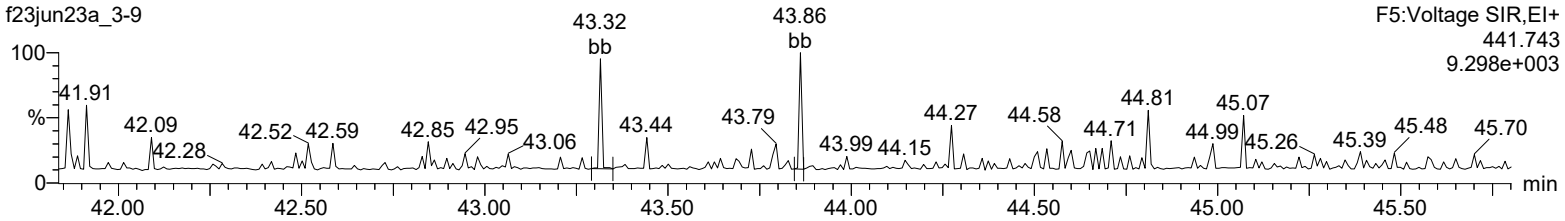
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

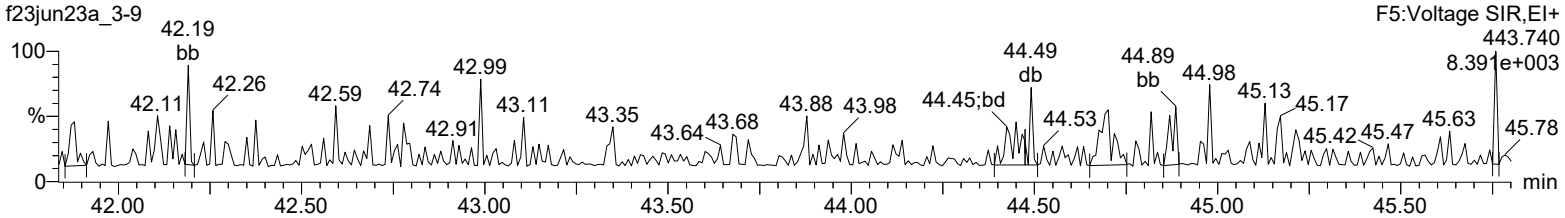
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-9, Date: 24-Jun-2023, Time: 15:18:53, ID: 21309001-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

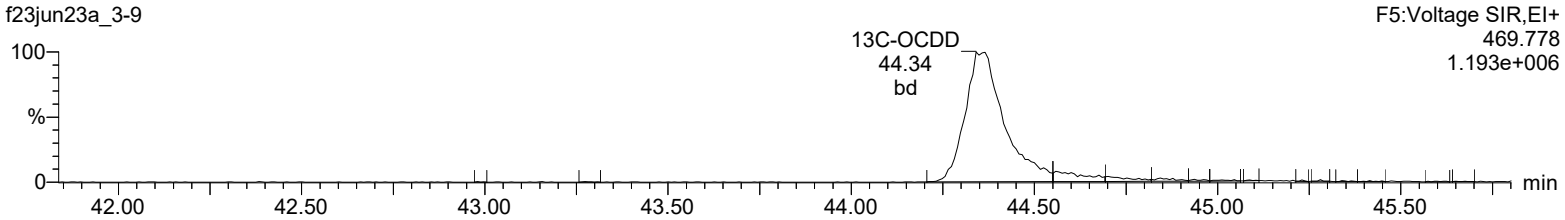
OCDF



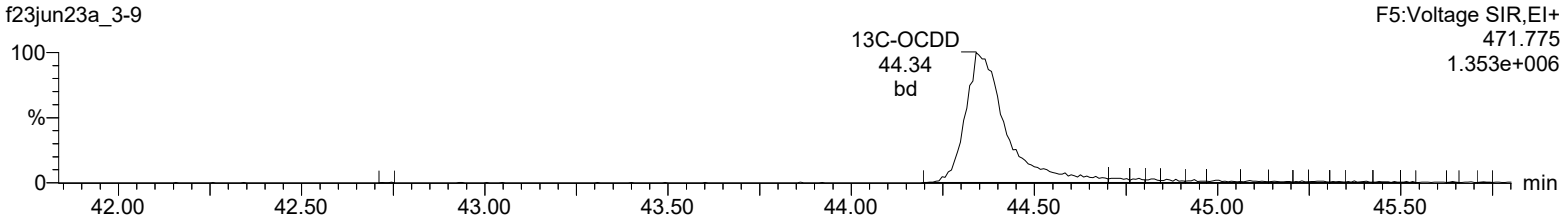
OCDF



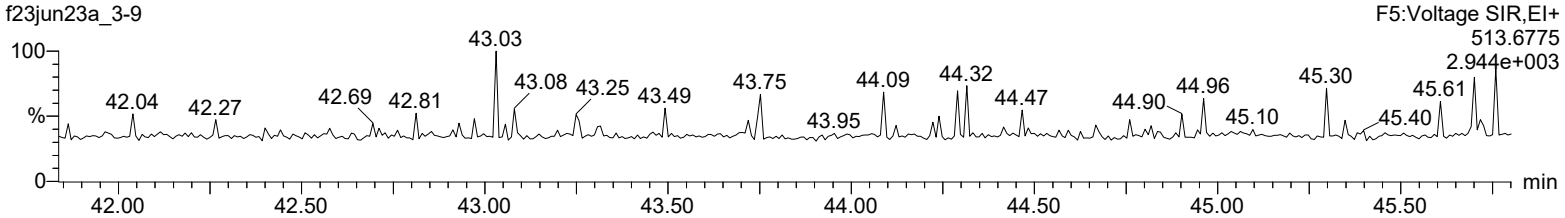
13C-OCDD



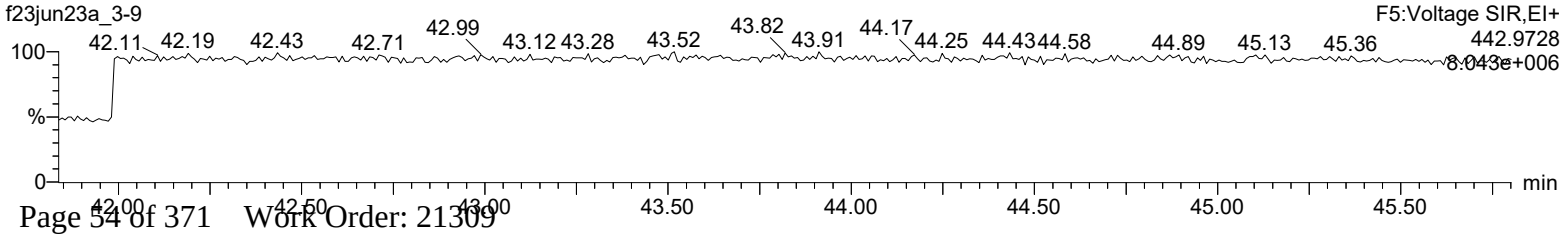
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309002**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR186-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 16:07**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-10**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**909.3 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.17	pg/L	3.17	5.50
40321-76-4	1,2,3,7,8-PeCDD	U	2.03	pg/L	2.03	27.5
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.93	pg/L	2.93	55.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.90	pg/L	2.90	55.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.90	pg/L	2.90	55.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	9.06	pg/L	5.81	55.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	54.7	pg/L	14.9	110
51207-31-9	2,3,7,8-TCDF	U	3.52	pg/L	3.52	11.0
57117-41-6	1,2,3,7,8-PeCDF	U	2.27	pg/L	2.27	55.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.96	pg/L	1.96	55.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.27	pg/L	1.27	55.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.21	pg/L	1.21	55.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.35	pg/L	1.35	55.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.20	pg/L	2.20	55.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	2.46	pg/L	1.90	55.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.73	pg/L	2.73	55.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	5.98	pg/L	5.98	110
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.17	pg/L	3.17	11.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.03	pg/L	2.03	55.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.90	pg/L	2.90	55.0
TCDF	Total Tetrachlorodibenzofuran	U	3.52	pg/L	3.52	11.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	17.0	pg/L	5.81	55.0
30402-15-4	Total Pentachlorodibenzofuran	U	0.959	pg/L	0.959	55.0
55684-94-1	Total Hexachlorodibenzofuran	JK	1.52	pg/L	1.21	55.0
38998-75-3	Total Heptachlorodibenzofuran	JK	6.09	pg/L	1.90	55.0
TEQ	TEQ WHO2005 ND=0		0.132	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.99	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1190	2200	pg/L	54.0	(25%-164%)
13C-1,2,3,7,8-PeCDD		1390	2200	pg/L	63.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1300	2200	pg/L	59.2	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1510	2200	pg/L	68.5	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1400	2200	pg/L	63.6	(23%-140%)
13C-OCDD		2510	4400	pg/L	57.1	(17%-157%)
13C-2,3,7,8-TCDF		1200	2200	pg/L	54.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1230	2200	pg/L	55.9	(24%-185%)
13C-2,3,4,7,8-PeCDF		1380	2200	pg/L	62.6	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1320	2200	pg/L	59.9	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1460	2200	pg/L	66.3	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1430	2200	pg/L	65.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	2200	pg/L	59.2	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309002**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR186-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 16:07**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-10**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**909.3 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1370	2200	pg/L	62.5	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1370	2200	pg/L	62.3	(26%-138%)
37Cl-2,3,7,8-TCDD		159	220	pg/L	72.3	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:13 PM Eastern Daylight Time

AMM 06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.144		2490			1097			
2	12378-PeCDD							NO		0.0923		1438			1107			
3	123478-HxCDD							NO		0.133		1458			1300			
4	123678-HxCDD							NO		0.132		1458			1300			
5	123789-HxCDD							NO		0.132		1458			1300			
6	1234678-HpCDD	5.58e2	8.16e2	1.37e3	40.18	1.001	0.68	YES	0.412	0.264	1.08e4	2124	5.1	1.12e4	2041	5.5	MM	MM
7	OCDD	2.49e3	2.97e3	5.46e3	44.41	1.001	0.84	NO	2.485	0.678	2.85e4	2482	11.5	2.79e4	2374	11.8	MM	MM
8	2378-TCDF							NO		0.160		1737			3662			
9	12378-PeCDF	6.39e1	1.95e2	2.59e2	33.38	1.001	0.33	YES	0.032	0.103	2.28e3	1992	1.1	7.47e3	4126	1.8	bb	bd
10	23478-PeCDF	7.66e1	1.43e2	2.19e2	34.01	1.001	0.54	YES	0.024	0.0892	3.76e3	1992	1.9	5.14e3	4126	1.2	bb	bb
11	123478-HxCDF							NO		0.0579		1300			1142			
12	123678-HxCDF							NO		0.0550		1300			1142			
13	234678-HxCDF							NO		0.0615		1300			1142			
14	123789-HxCDF							NO		0.100		1300			1142			
15	1234678-HpCDF	3.72e2	4.21e2	7.93e2	38.91	1.000	0.88	YES	0.112	0.0864	1.09e4	1303	8.3	8.28e3	1779	4.7	MM	MM
16	1234789-HpCDF							NO		0.124		1303			1779			
17	OCDF	4.03e2	4.28e2	8.31e2	44.69	1.007	0.94	NO	0.239	0.272	8.55e3	1226	7.0	8.25e3	1851	4.5	MM	MM
18	13C-2378-TCDD	1.77e5	2.25e5	4.02e5	31.28	1.017	0.79	NO	54.032	0.233	2.49e6	5677	439.2	3.06e6	3009	1016.0	bd	bd
19	13C-12378-PeCDD	2.06e5	1.29e5	3.35e5	34.16	1.110	1.60	NO	63.192	0.319	3.64e6	4841	751.3	2.25e6	3637	619.2	bd	bd
20	13C-123478-HxCDD	1.51e5	1.17e5	2.68e5	36.77	0.991	1.29	NO	59.243	0.584	2.73e6	7512	363.7	2.08e6	5555	373.8	bd	bd
21	13C-123678-HxCDD	2.10e5	1.65e5	3.75e5	36.86	0.994	1.28	NO	68.453	0.482	2.76e6	7512	367.0	2.18e6	5555	392.9	dd	dd
22	13C-1234678-HpCDD	1.38e5	1.34e5	2.72e5	40.15	1.082	1.03	NO	63.608	0.536	1.63e6	6232	261.0	1.54e6	5105	301.3	bd	bd
23	13C-OCDD	1.89e5	2.08e5	3.97e5	44.37	1.196	0.91	NO	114.176	0.843	1.54e6	8032	191.9	1.74e6	6486	267.5	bd	bd
24	13C-2378-TCDF	2.82e5	3.34e5	6.16e5	30.58	0.994	0.84	NO	54.388	0.159	2.85e6	4541	628.2	3.41e6	4462	765.0	bd	bb
25	13C-12378-PeCDF	3.90e5	2.37e5	6.28e5	33.35	1.084	1.65	NO	55.927	0.578	7.26e6	17066	425.2	4.42e6	15410	287.1	bd	bd
26	13C-23478-PeCDF	4.15e5	2.47e5	6.62e5	33.97	1.104	1.68	NO	62.620	0.614	7.71e6	17066	452.0	4.62e6	15410	299.7	bb	bb
27	13C-123478-HxCDF	1.42e5	2.70e5	4.12e5	36.05	0.972	0.53	NO	59.855	0.753	2.57e6	9789	262.1	4.83e6	15865	304.7	bd	bd
28	13C-123678-HxCDF	1.98e5	3.67e5	5.65e5	36.15	0.975	0.54	NO	66.315	0.608	2.82e6	9789	288.6	5.09e6	15865	320.9	dd	db
29	13C-234678-HxCDF	1.63e5	3.01e5	4.64e5	36.64	0.988	0.54	NO	65.096	0.726	2.45e6	9789	250.6	4.60e6	15865	290.1	bd	bb
30	13C-123789-HxCDF	1.32e5	2.44e5	3.76e5	37.42	1.009	0.54	NO	59.221	0.817	1.64e6	9789	167.1	3.14e6	15865	198.0	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:13 PM Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.64e5	3.48e5	5.12e5	38.89	1.048	0.47	NO	62.475	0.551	2.06e6	9112	226.1	4.39e6	13242	331.2	bb	bd
32	13C-1234789-HpCDF	1.26e5	2.72e5	3.98e5	40.83	1.100	0.47	NO	62.329	0.707	1.45e6	9112	158.7	2.94e6	13242	222.2	bb	bd
33	13C-1234-TCDD	2.92e5	3.61e5	6.53e5	30.77	0.000	0.81	NO	100.000	0.266	3.66e6	5677	644.5	4.59e6	3009	1525.4	bb	bb
34	13C-123789-HxCDD	3.00e5	2.33e5	5.33e5	37.10	0.000	1.29	NO	100.000	0.495	3.72e6	7512	495.0	3.00e6	5555	539.4	dd	dd
35	37Cl-2378-TCDD	5.31e4		5.31e4	31.30	1.017			7.231	0.0778	7.48e5	2857	261.8				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-10, ID:21309002-1, Description: 52698

M	M2
6 1234678-HpCDD 40.18 - AB	6 1234678-HpCDD 40.18 - AB
7 OCDD 44.41 - AB	7 OCDD 44.41 - AB
15 1234678-HpCDF 38.91 - AB	15 1234678-HpCDF 38.91 - AB
17 OCDF 44.69 - AB	17 OCDF 44.69 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:13 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	9.00e1	8.16e1	1.72e2	30.08	1.10	YES	0.039	0.144	4.24e3	2490	1.7	5.50e3	1097	5.0	bd	bb
2	Total-tetradioxins	5.73e1	1.01e2	1.58e2	27.35	0.57	YES	0.036	0.144	3.11e3	2490	1.2	4.65e3	1097	4.2	bb	bb
3	Total-tetradioxins	1.71e2	6.28e1	2.34e2	31.05	2.73	YES	0.053	0.144	3.45e3	2490	1.4	1.29e3	1097	1.2	db	bd
4	Total-tetradioxins	2.34e2	5.29e1	2.86e2	30.93	4.41	YES	0.065	0.144	6.25e3	2490	2.5	2.79e3	1097	2.5	bd	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	8.68e1	9.17e1	1.78e2	36.21	0.95	YES	0.052	0.132	2.22e3	1458	1.5	2.16e3	1300	1.7	dd	db
2	Total-hexadioxins	1.63e2	8.62e1	2.49e2	36.13	1.89	YES	0.073	0.132	6.24e3	1458	4.3	2.90e3	1300	2.2	dd	bd
3	Total-hexadioxins	7.80e1	6.06e1	1.39e2	37.40	1.29	NO	0.040	0.132	2.58e3	1458	1.8	2.15e3	1300	1.7	bb	bb
4	Total-hexadioxins	5.38e1	6.71e1	1.21e2	37.12	0.80	YES	0.035	0.132	1.73e3	1458	1.2	2.81e3	1300	2.2	bb	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	8.24e1	1.34e2	2.16e2	40.85	0.62	YES	0.065	0.264	3.26e3	2124	1.5	4.07e3	2041	2.0	db	bb
2	1234678-HpCDD	5.58e2	8.16e2	1.37e3	40.18	0.68	YES	0.412	0.264	1.08e4	2124	5.1	1.12e4	2041	5.5	MM	MM
3	Total-heptadioxins	7.23e2	4.82e2	1.21e3	39.24	1.50	YES	0.362	0.264	8.90e3	2124	4.2	7.53e3	2041	3.7	MM	MM
4	Total-heptadioxins	1.61e2	7.23e1	2.34e2	38.91	2.23	YES	0.070	0.264	2.88e3	2124	1.4	2.08e3	2041	1.0	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:13 PM Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	1.13e2	1.49e2	2.62e2	27.85	0.76	NO	0.031	0.160	6.83e3	1737	3.9	6.20e3	3662	1.7	bb	bb
2	Total-tetrafurans	6.22e1	1.71e2	2.34e2	27.73	0.36	YES	0.028	0.160	4.24e3	1737	2.4	9.96e3	3662	2.7	bb	bb
3	Total-tetrafurans	6.43e1	2.36e2	3.00e2	27.63	0.27	YES	0.036	0.160	1.78e3	1737	1.0	1.25e4	3662	3.4	bb	bb
4	Total-tetrafurans	9.20e1	6.94e1	1.61e2	27.25	1.33	YES	0.019	0.160	2.38e3	1737	1.4	3.10e3	3662	0.8	bb	bb
5	Total-tetrafurans	1.51e2	5.68e1	2.08e2	26.92	2.67	YES	0.025	0.160	5.90e3	1737	3.4	2.08e3	3662	0.6	bb	bb
6	Total-tetrafurans	7.06e1	9.28e1	1.63e2	25.99	0.76	NO	0.020	0.160	1.30e3	1737	0.7	5.09e3	3662	1.4	bb	db
7	Total-tetrafurans	1.19e2	6.50e1	1.84e2	30.80	1.84	YES	0.022	0.160	2.09e3	1737	1.2	3.92e3	3662	1.1	dd	bb
8	Total-tetrafurans	1.22e2	5.98e1	1.82e2	30.64	2.05	YES	0.022	0.160	2.43e3	1737	1.4	4.10e3	3662	1.1	dd	bb
9	Total-tetrafurans	9.29e1	1.67e2	2.60e2	30.43	0.56	YES	0.031	0.160	2.40e3	1737	1.4	9.31e3	3662	2.5	bd	bb
10	Total-tetrafurans	1.09e2	5.13e1	1.60e2	28.91	2.12	YES	0.019	0.160	3.02e3	1737	1.7	3.44e3	3662	0.9	bb	bb
11	Total-tetrafurans	8.49e1	7.38e1	1.59e2	28.47	1.15	YES	0.019	0.160	2.01e3	1737	1.2	4.57e3	3662	1.2	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	1.68e2	5.91e1	2.27e2	31.91	2.84	YES	0.026	0.0436	7.02e3	1143	6.1	4.01e3	1643	2.4	bb	bd
2	Total-pentafurans (F1)	6.60e1	5.33e1	1.19e2	31.82	1.24	YES	0.014	0.0436	4.41e3	1143	3.9	3.27e3	1643	2.0	bb	bb
3	Total-pentafurans (F1)	6.28e1	7.86e1	1.41e2	26.30	0.80	YES	0.016	0.0436	2.02e3	1143	1.8	1.55e3	1643	0.9	bb	bb

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	5.04e1	1.94e2	2.44e2	34.69	0.26	YES	0.028	0.0957	2.93e3	1992	1.5	1.26e4	4126	3.1	bb	bb
2	23478-PeCDF	7.66e1	1.43e2	2.19e2	34.01	0.54	YES	0.024	0.0892	3.76e3	1992	1.9	5.14e3	4126	1.2	bb	bb
3	Total-pentafurans	6.42e1	5.55e1	1.20e2	33.65	1.16	YES	0.014	0.0957	2.71e3	1992	1.4	5.42e3	4126	1.3	bb	bb
4	12378-PeCDF	6.39e1	1.95e2	2.59e2	33.38	0.33	YES	0.032	0.103	2.28e3	1992	1.1	7.47e3	4126	1.8	bb	bd
5	Total-pentafurans	6.15e1	2.47e2	3.09e2	33.15	0.25	YES	0.036	0.0957	2.26e3	1992	1.1	1.53e4	4126	3.7	bb	bb
6	Total-pentafurans	1.40e2	9.11e1	2.31e2	32.79	1.53	NO	0.027	0.0957	3.59e3	1992	1.8	5.74e3	4126	1.4	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-7.qld

Last Altered: Wednesday, June 28, 2023 3:47:30 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:13 PM Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	6.98e1	9.64e1	1.66e2	35.66	0.72	YES	0.026	0.0664	3.08e3	1300	2.4	3.41e3	1142	3.0	bb	bb
2	Total-hexafurans	2.66e2	1.68e2	4.34e2	35.24	1.58	YES	0.069	0.0664	6.36e3	1300	4.9	3.29e3	1142	2.9	MM	MM

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptafurans	5.04e1	7.52e1	1.26e2	39.60	0.67	YES	0.020	0.103	2.93e3	1303	2.2	7.22e3	1779	4.1	bb	bb
2	Total-heptafurans	5.65e2	4.69e2	1.03e3	39.43	1.21	YES	0.165	0.103	1.11e4	1303	8.5	8.06e3	1779	4.5	MM	MM
3	1234678-HpCDF	3.72e2	4.21e2	7.93e2	38.91	0.88	YES	0.112	0.0864	1.09e4	1303	8.3	8.28e3	1779	4.7	MM	MM
4	Total-heptafurans	8.35e1	7.82e1	1.62e2	40.80	1.07	NO	0.026	0.103	3.63e3	1303	2.8	4.64e3	1779	2.6	bb	bb

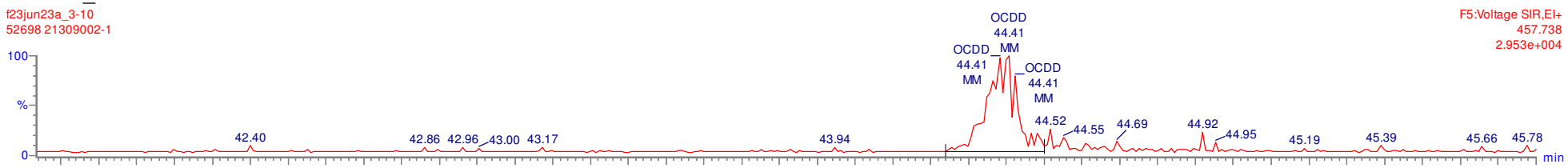
Reasons for Analyst Intervention

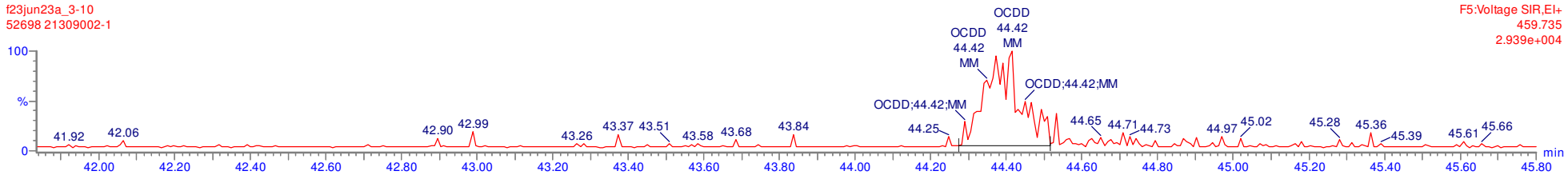
Name:f23jun23a_3-10, ID:21309002-1, Description: 52698

M	M2
2 1234678-HpCDD 40.18 - AB	2 1234678-HpCDD 40.18 - AB
3 Total-heptadioxins 39.24 - AB	3 Total-heptadioxins 39.24 - AB
2 Total-hexafurans 35.24 - AB	2 Total-hexafurans 35.24 - AB
2 Total-heptafurans 39.43 - AB	2 Total-heptafurans 39.43 - AB
3 1234678-HpCDF 38.91 - AB	3 1234678-HpCDF 38.91 - AB

Reason Codes assigned by MW1 on 28-JUN-23

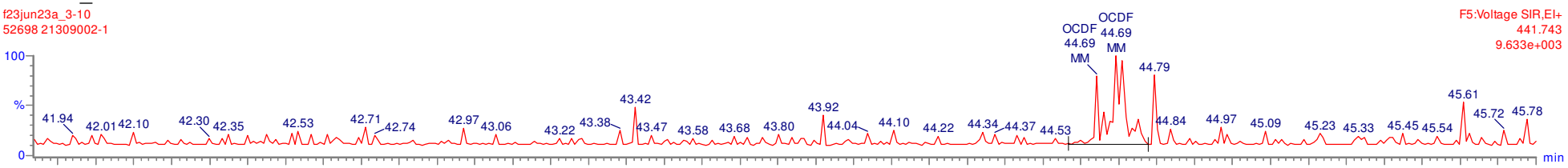
MANUAL INTEGRATION
METHOD 1613
HRP722_2

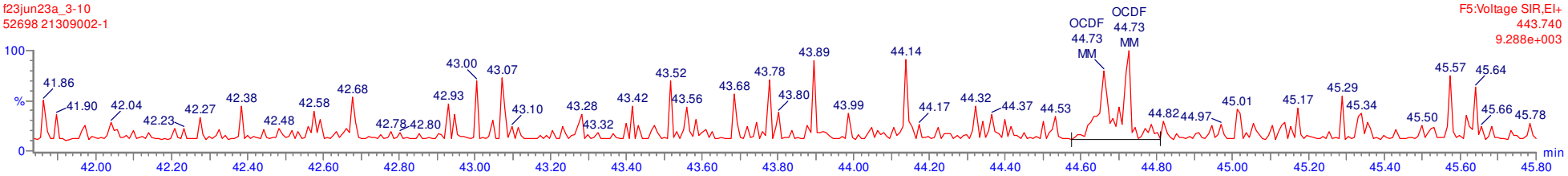




06/28/2023 06/29/2023

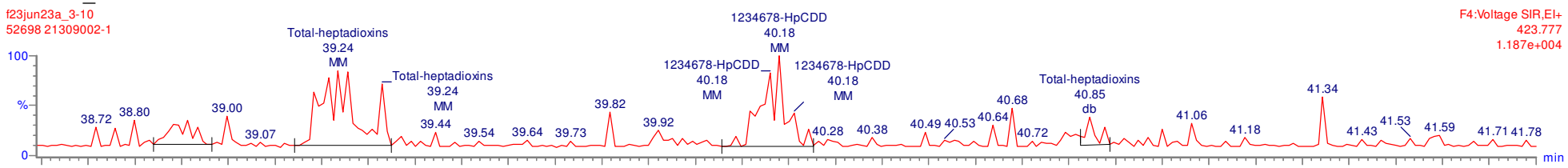
MANUAL INTEGRATION
METHOD 1613
HRP722_2

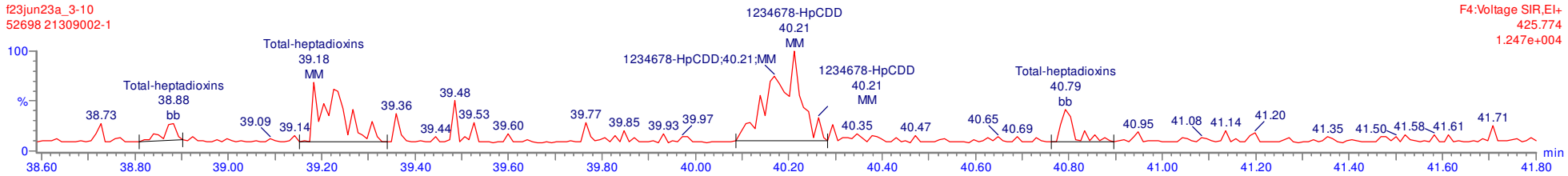




06/28/2023 06/29/2023

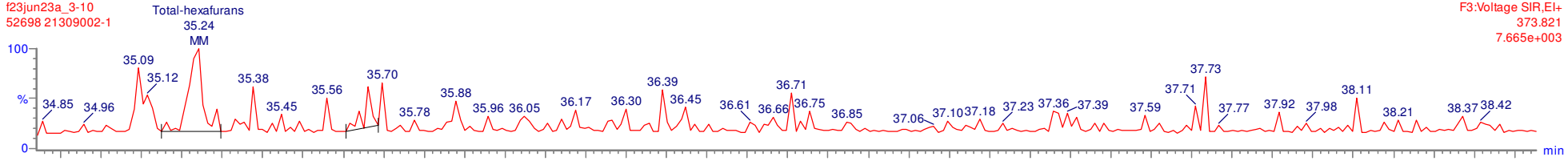
MANUAL INTEGRATION
METHOD 1613
HRP722_2

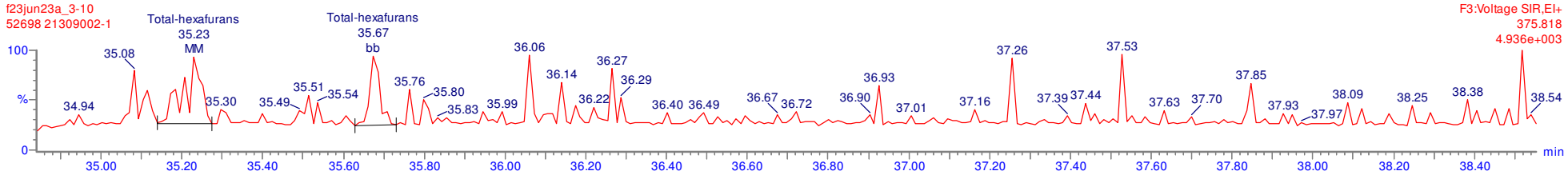




06/28/2023 06/29/2023

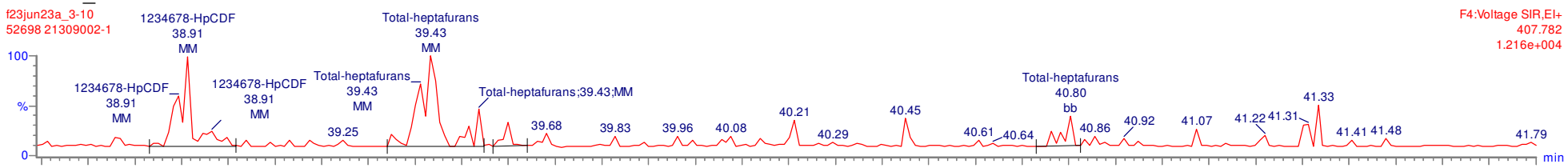
MANUAL INTEGRATION
METHOD 1613
HRP722_2

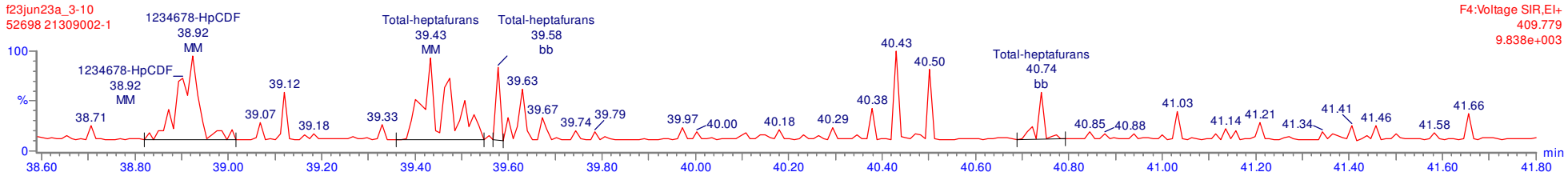




06/28/2023 06/29/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

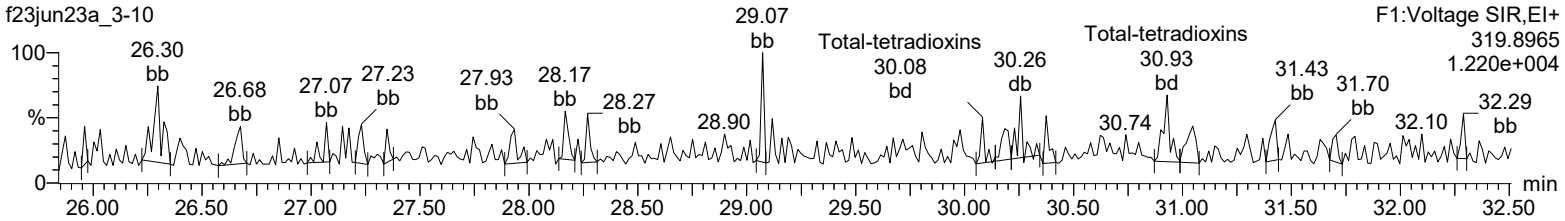
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

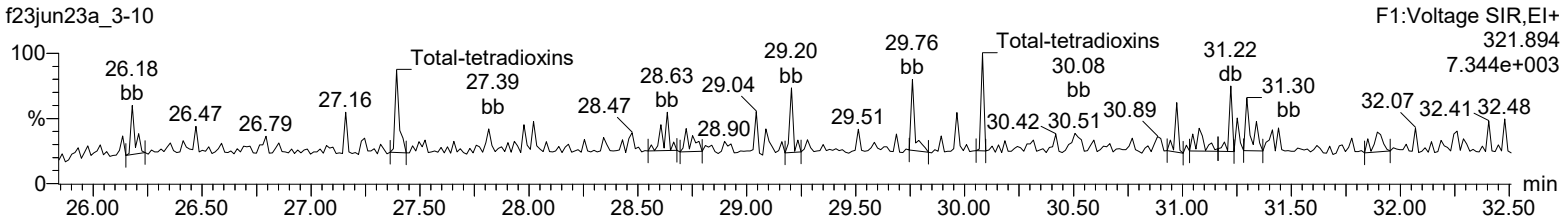
AMA 06/29/2023

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

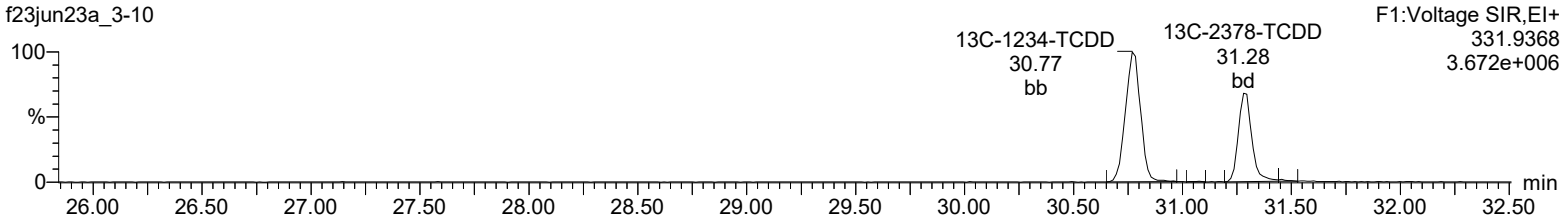
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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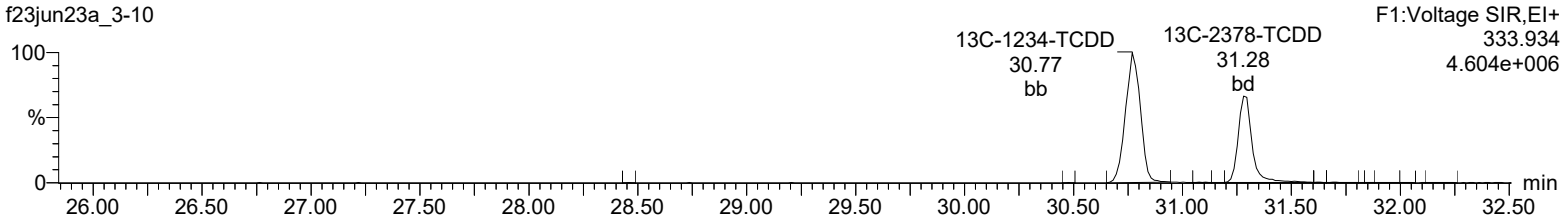
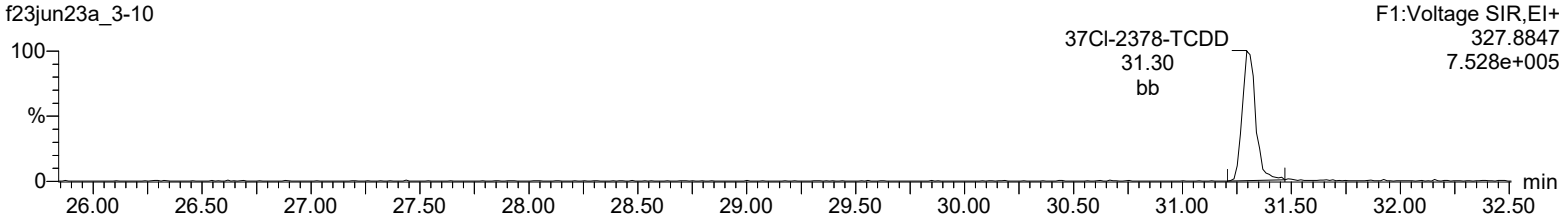
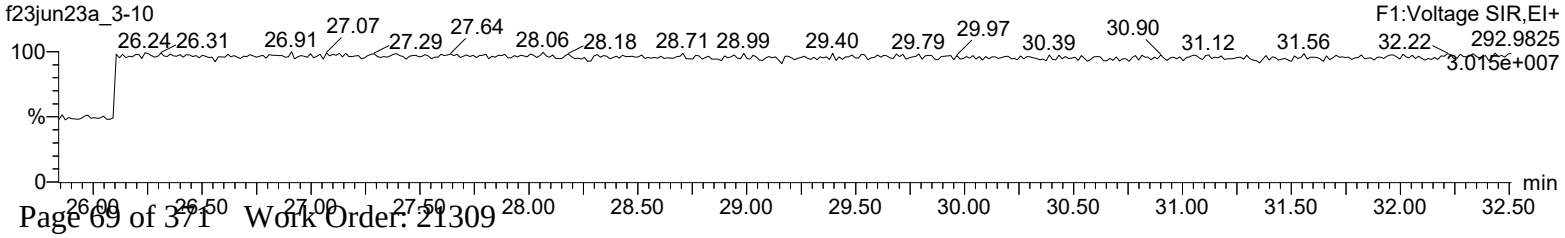


37Cl-2378-TCDD



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

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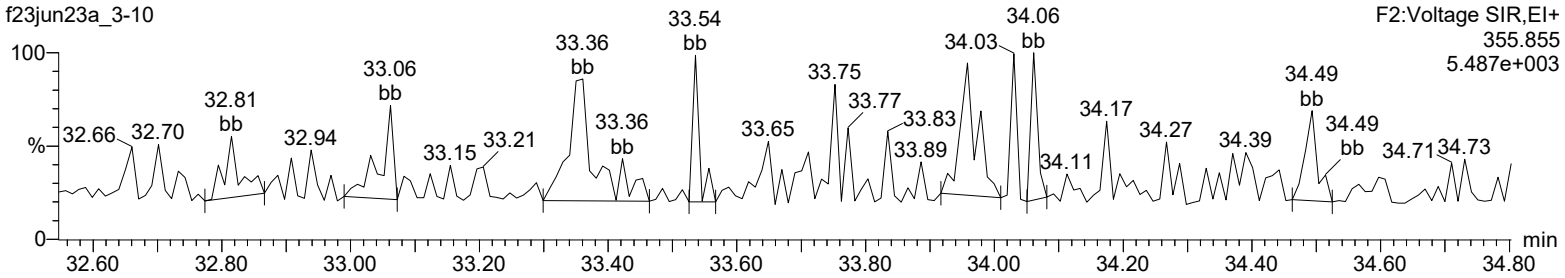
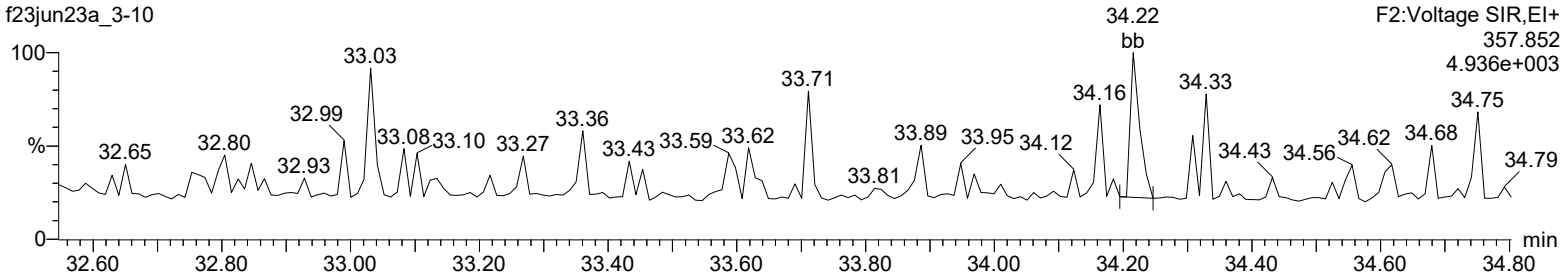
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

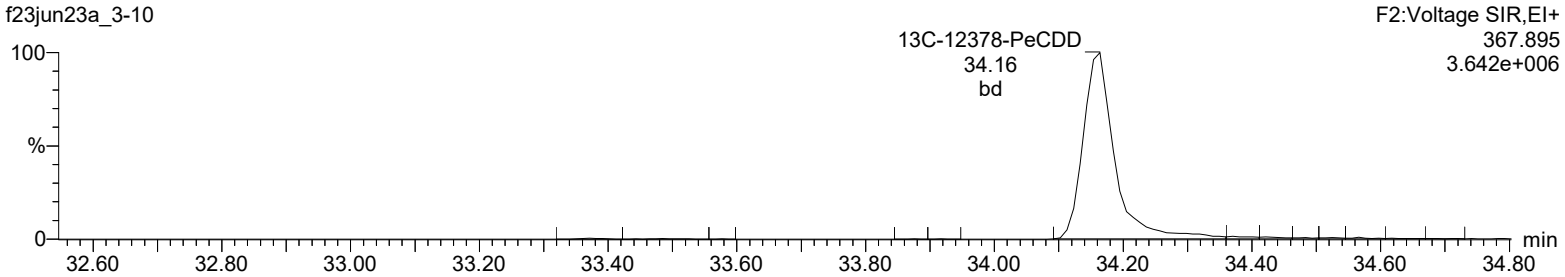
Total-pentadioxins



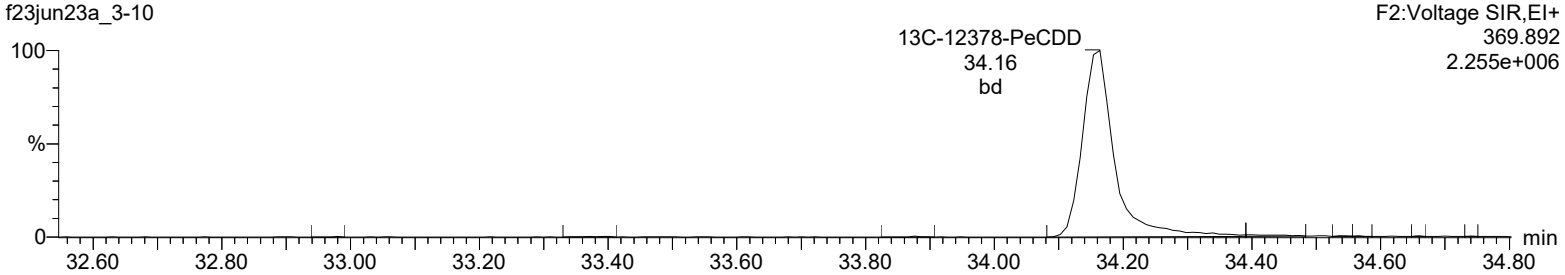
Total-pentadioxins



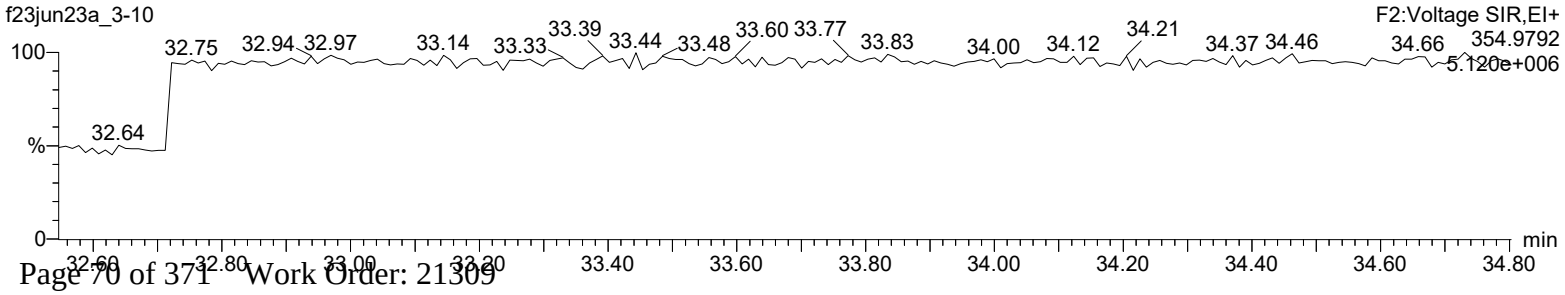
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



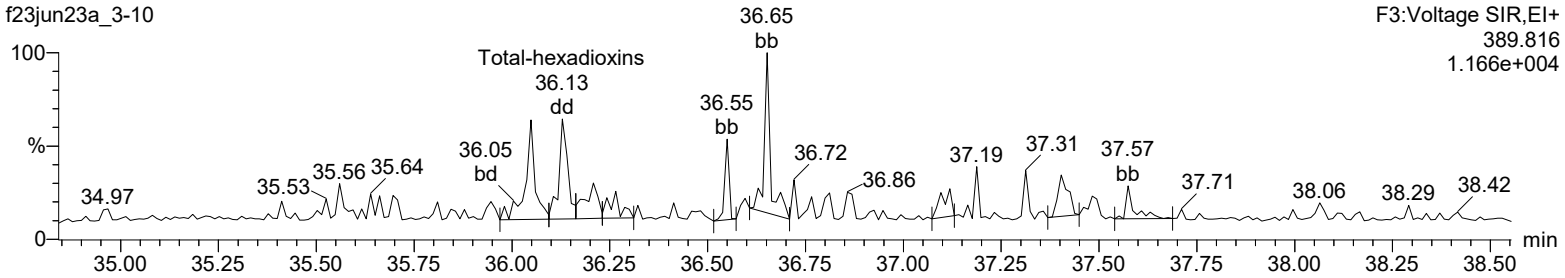
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

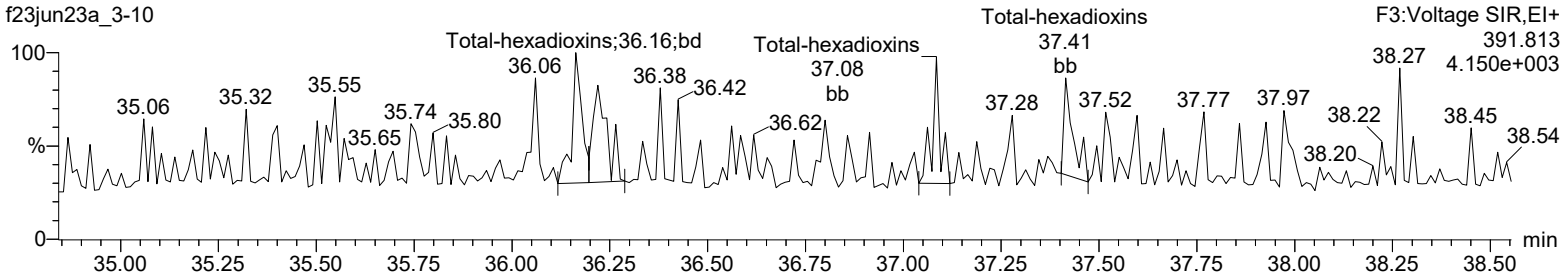
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

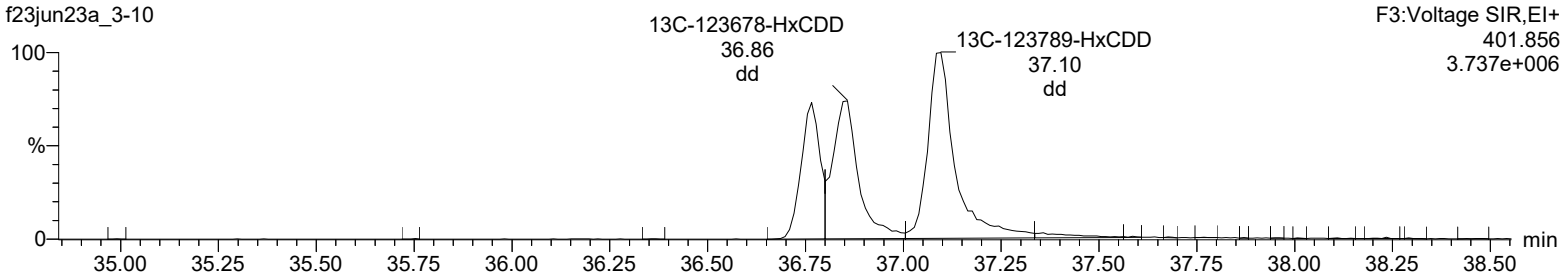
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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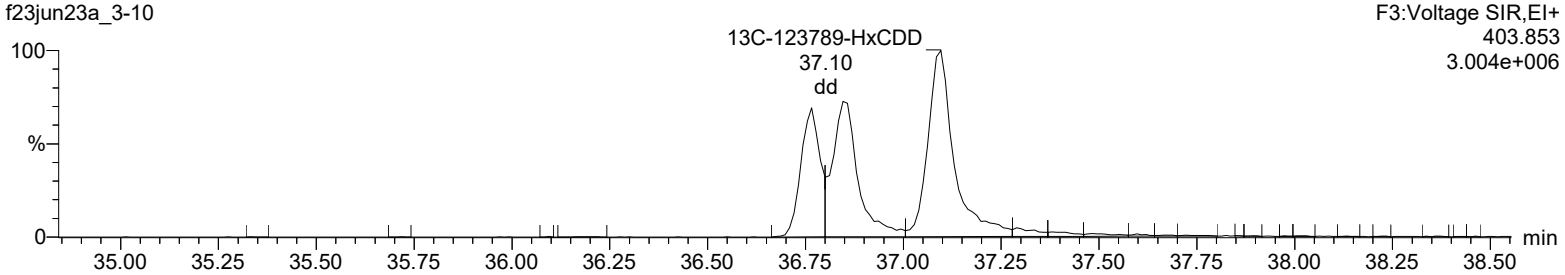
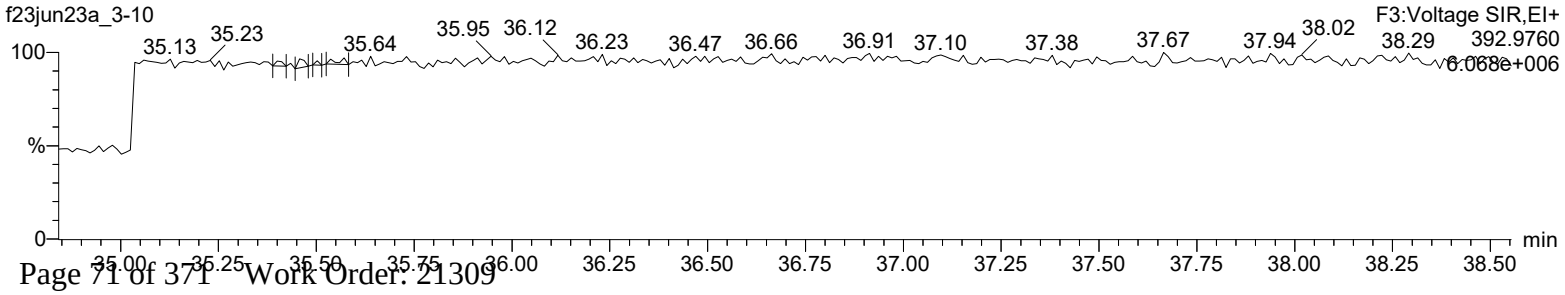


Lock Mass F3



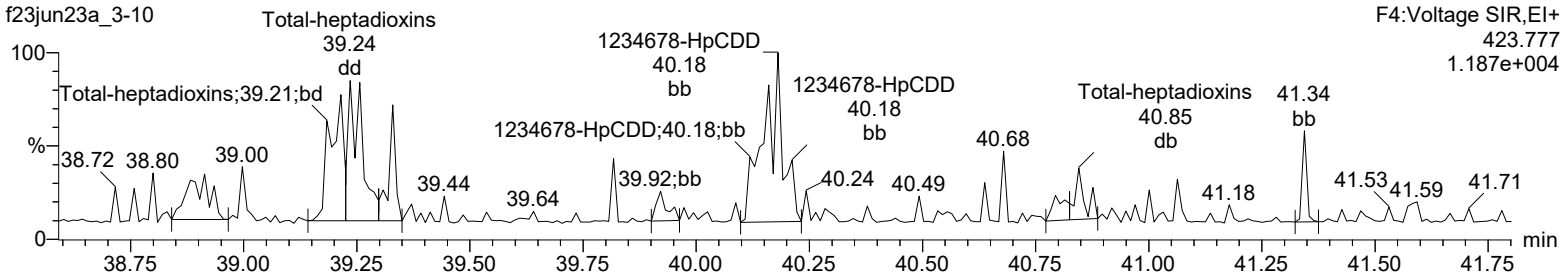
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

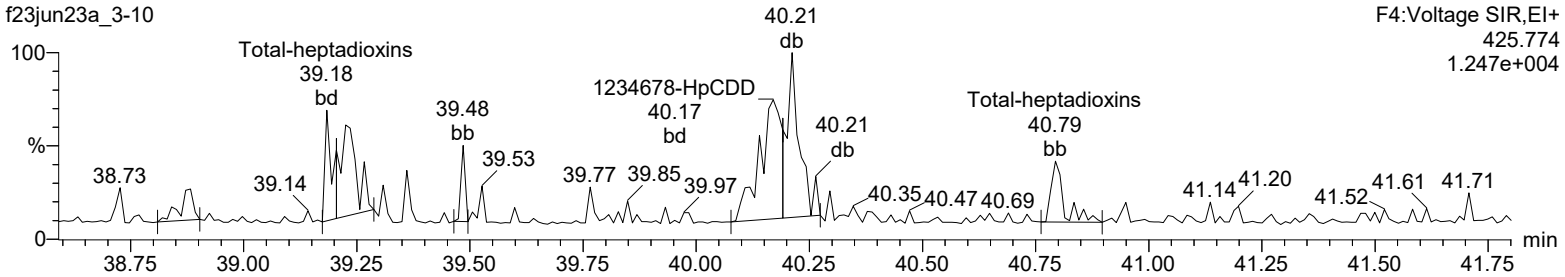
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

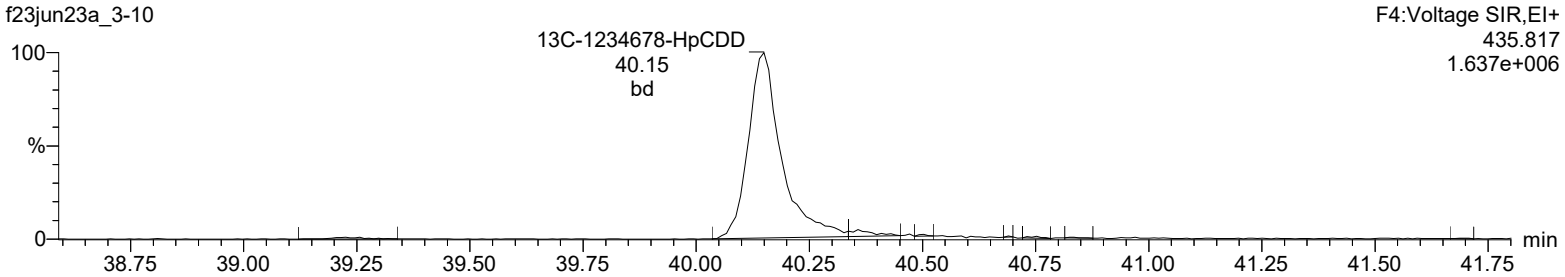
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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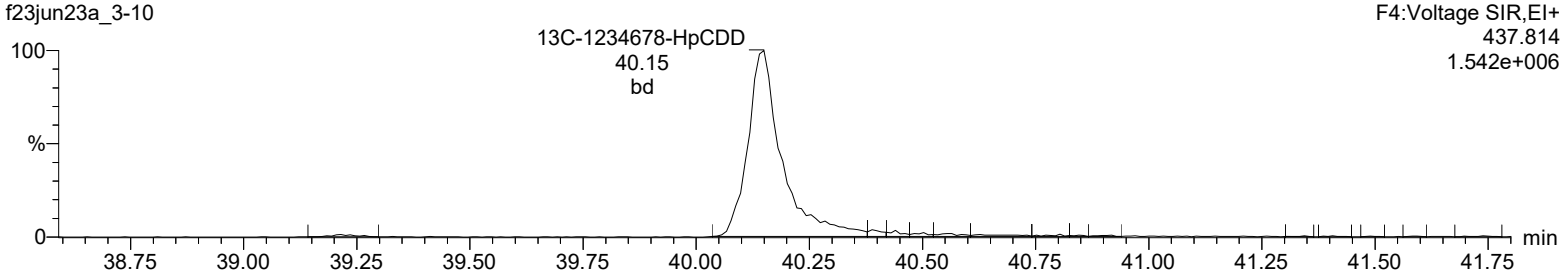
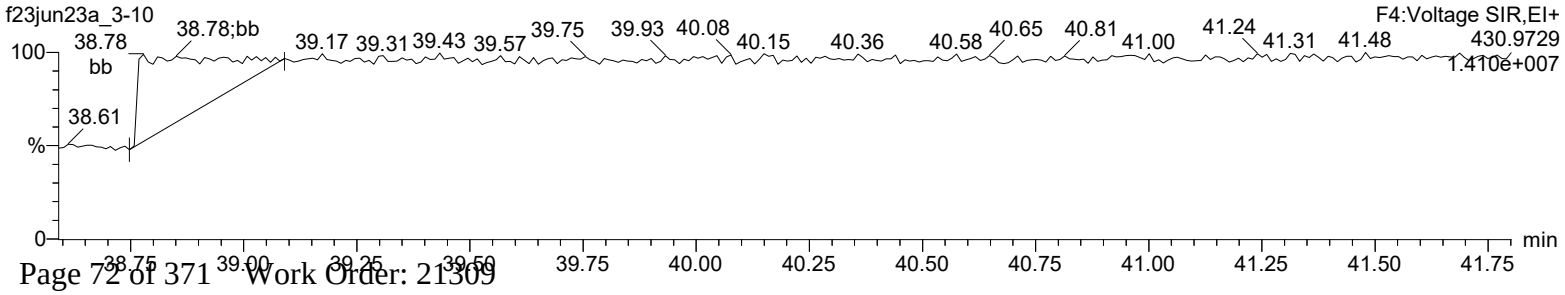


Lock Mass F4



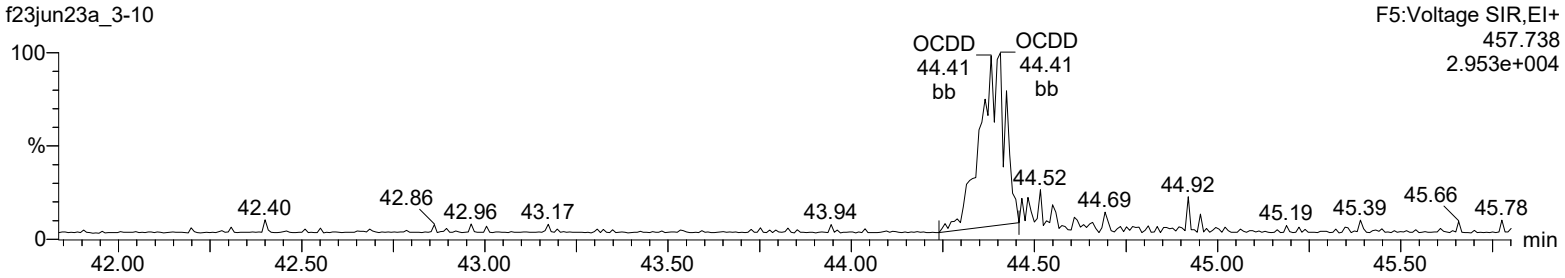
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

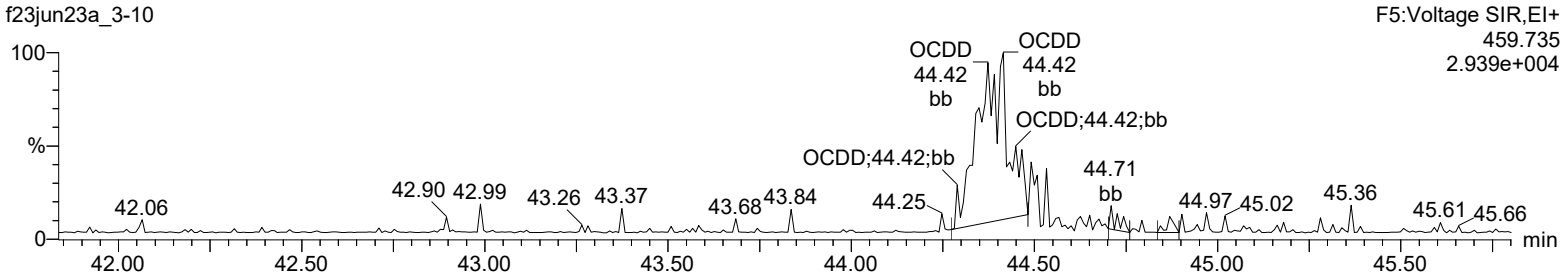
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

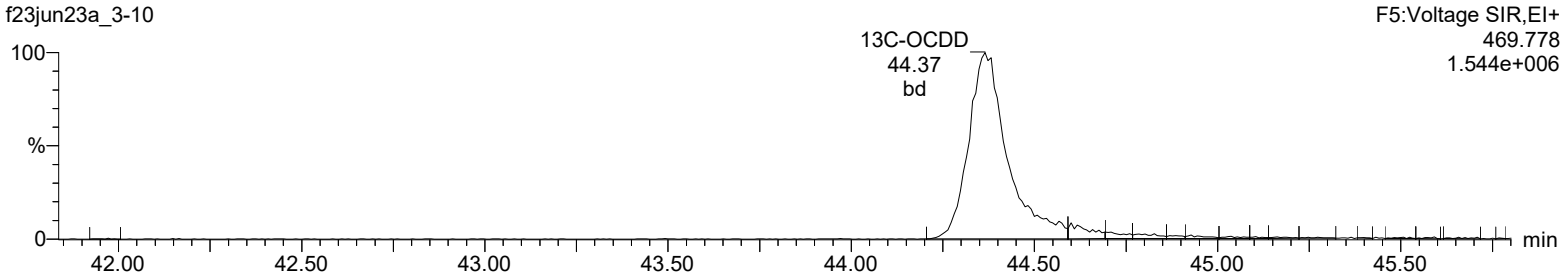
OCDD



OCDD



13C-OCDD



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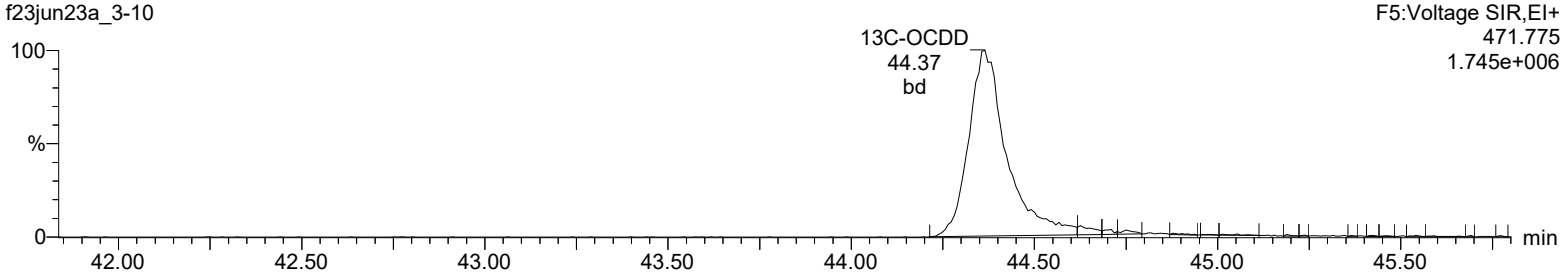
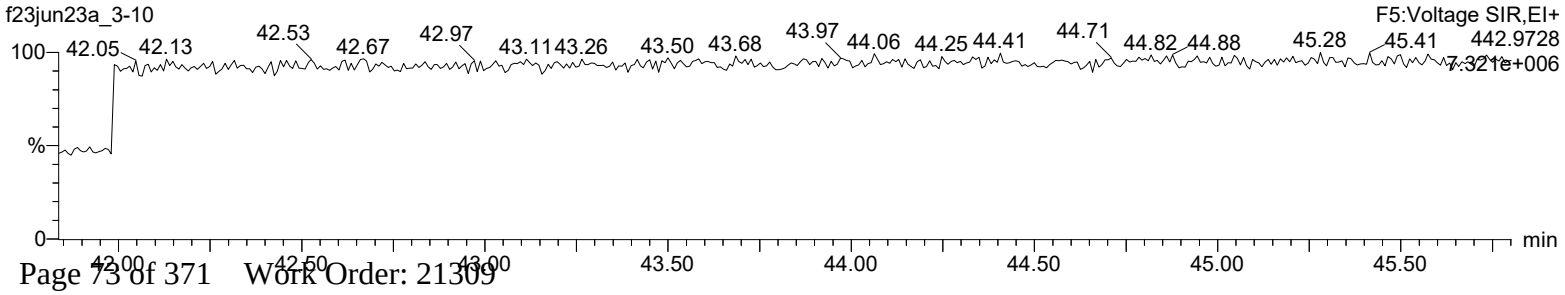


Lock Mass F5



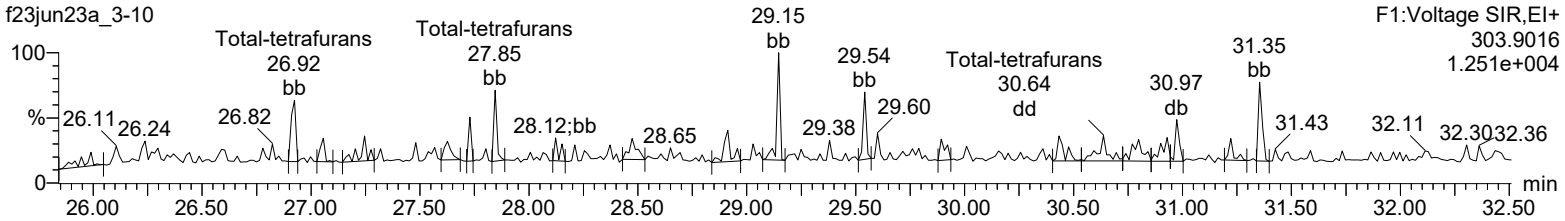
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

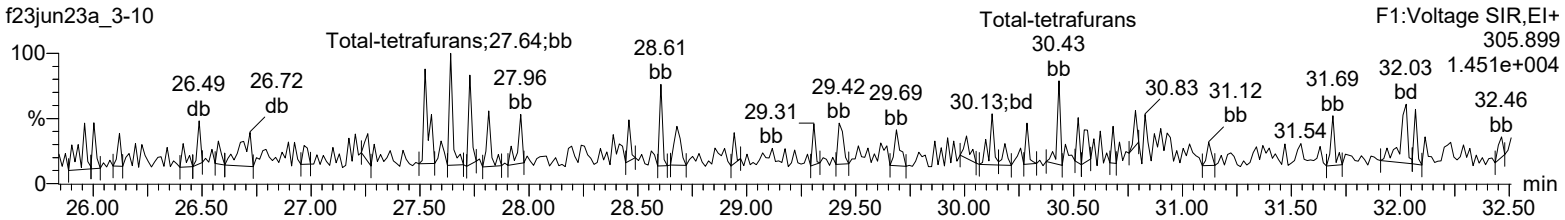
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

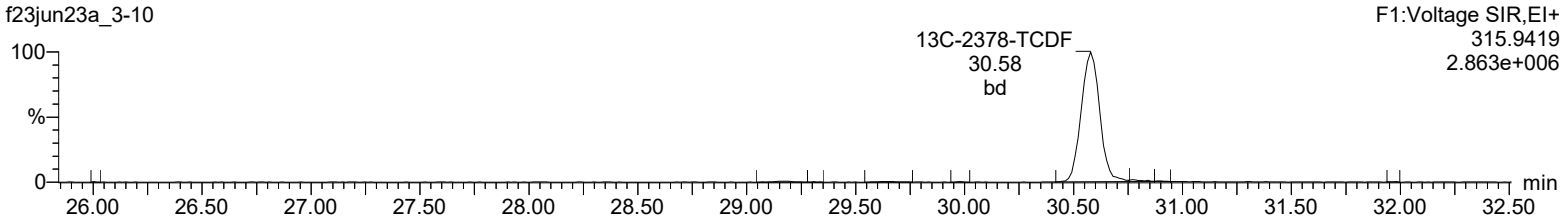
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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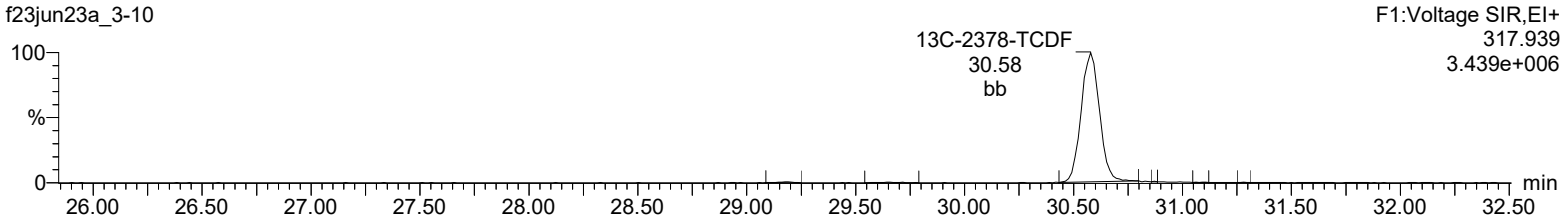
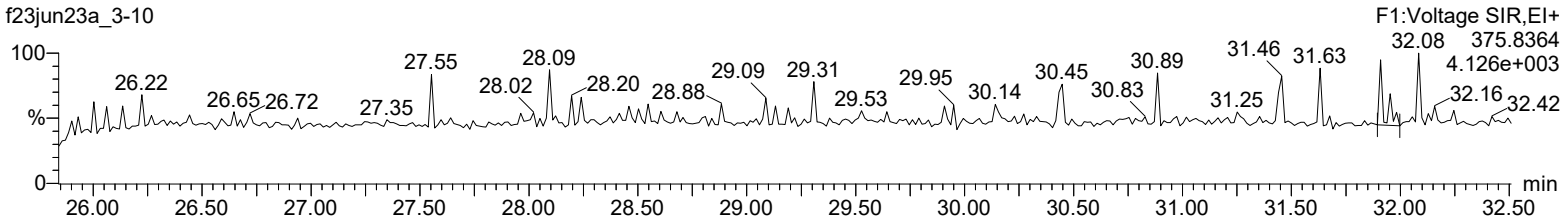
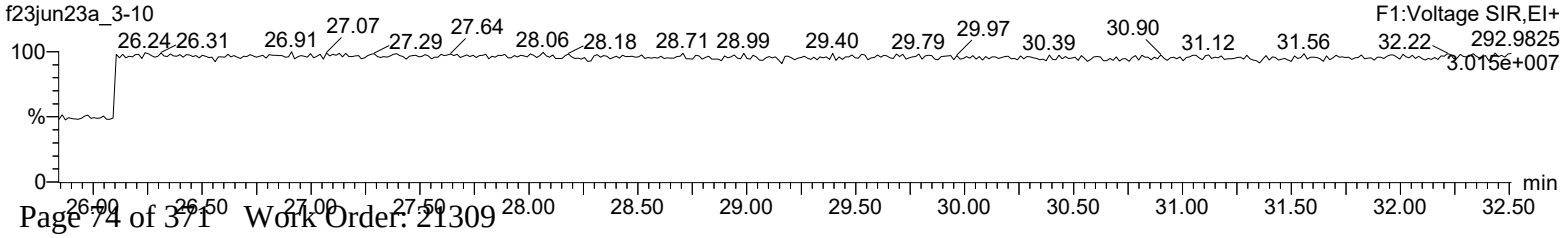


HxDPE



Lock Mass F1



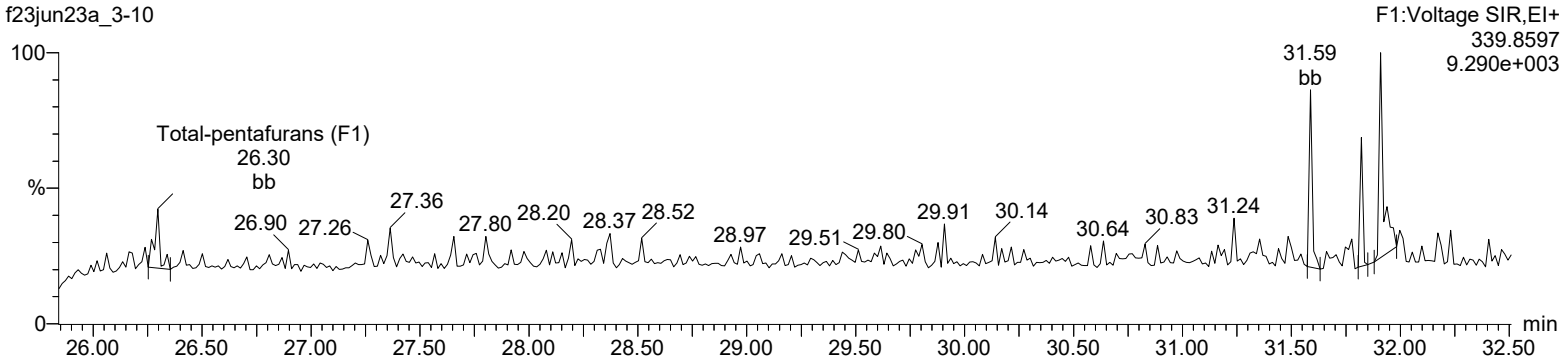
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

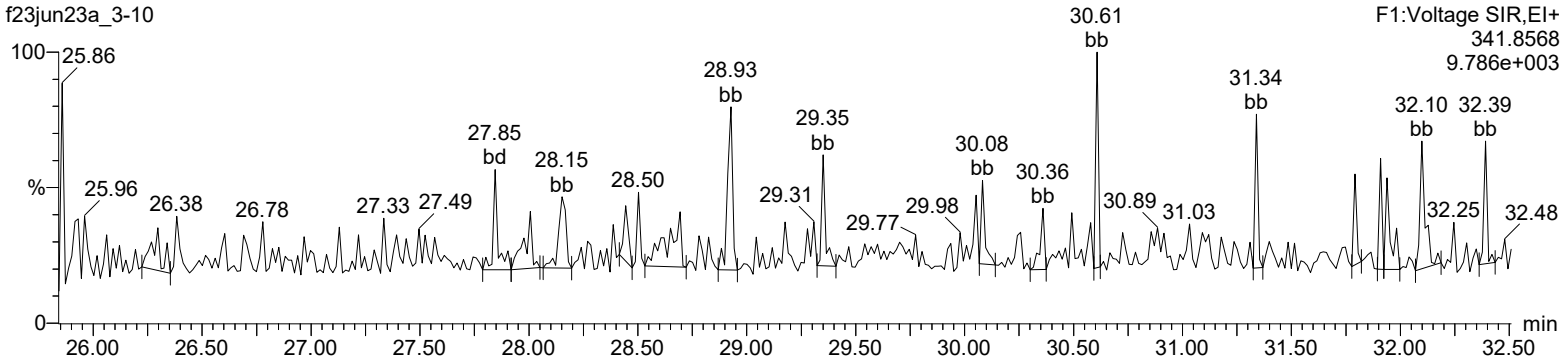
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-pentafurans (F1)



Total-pentafurans (F1)



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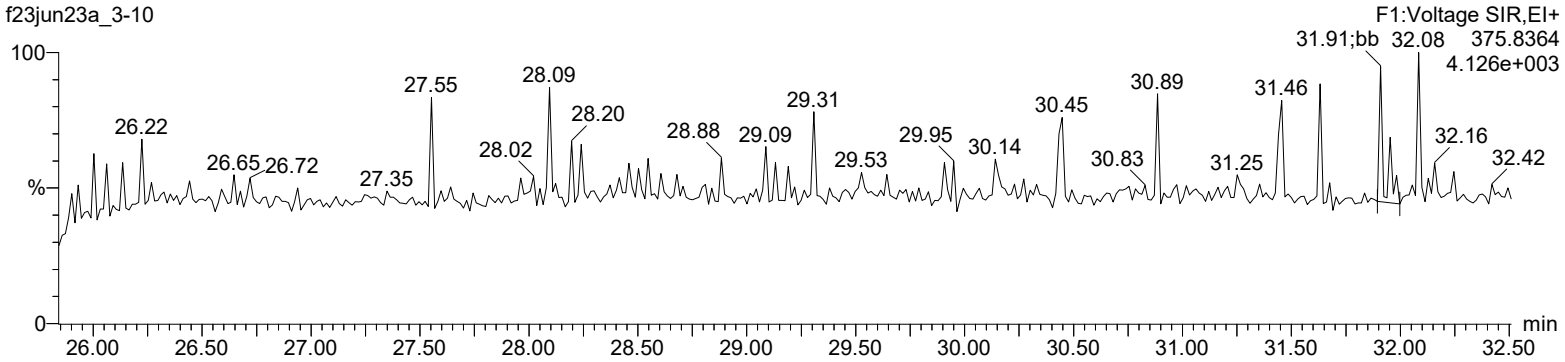
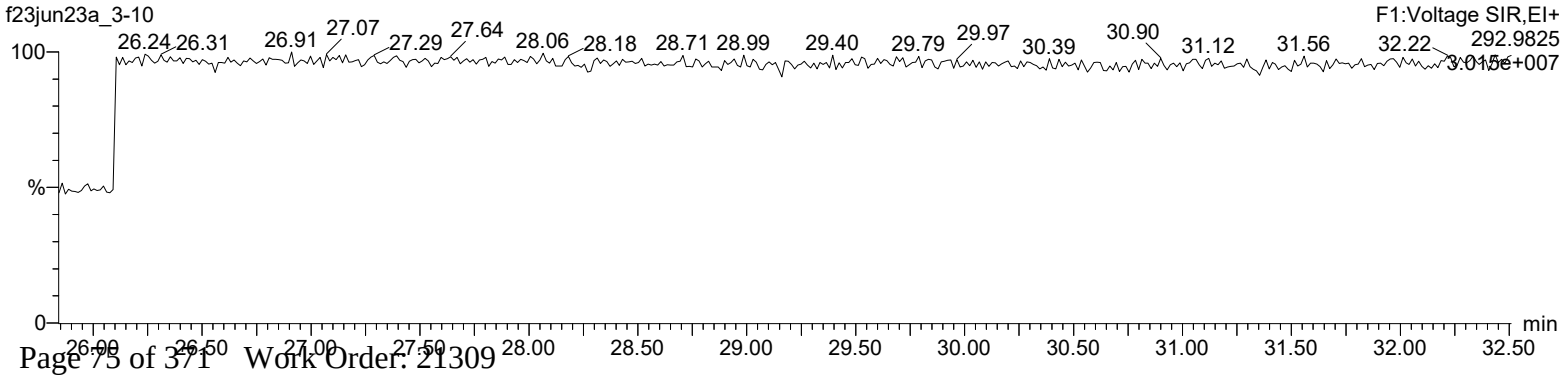


Lock Mass F1



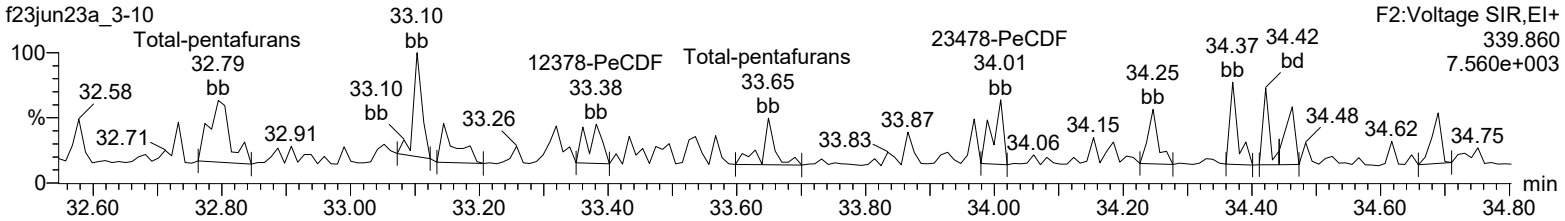
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

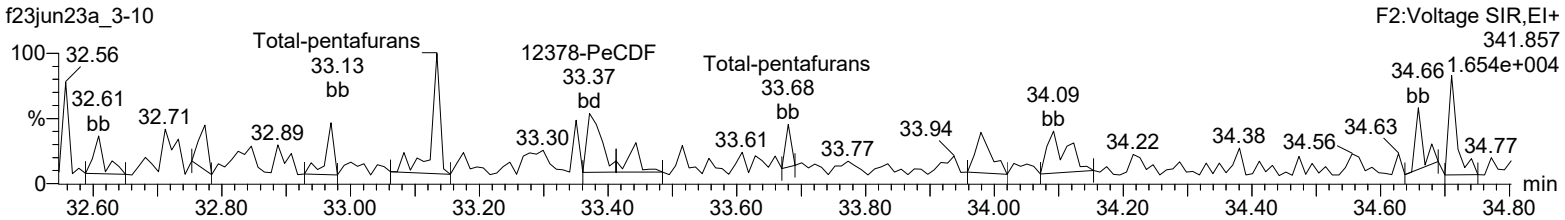
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

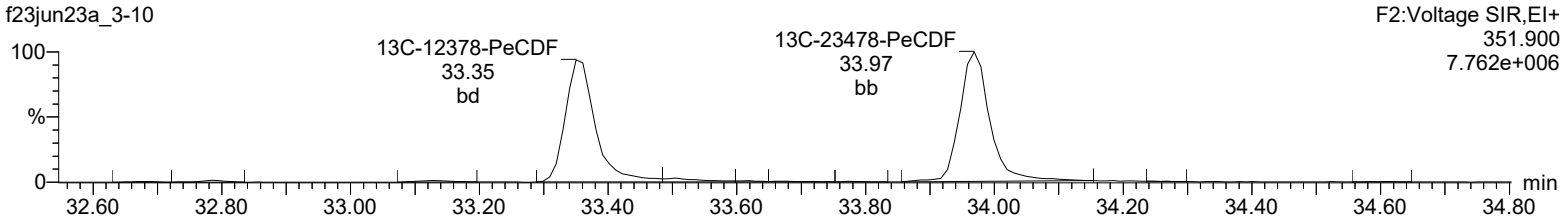
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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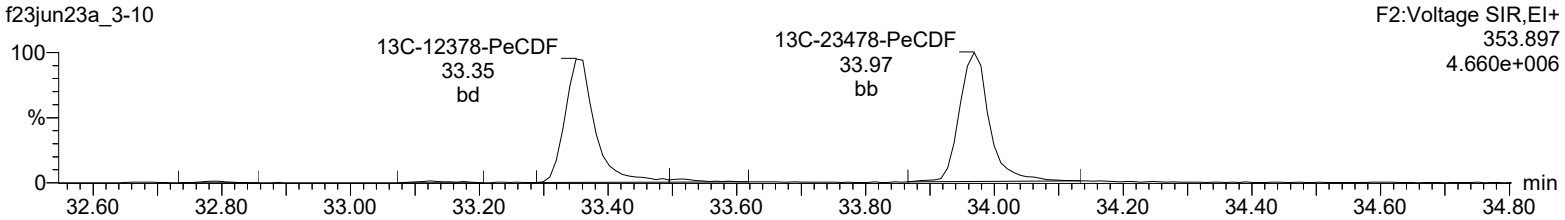
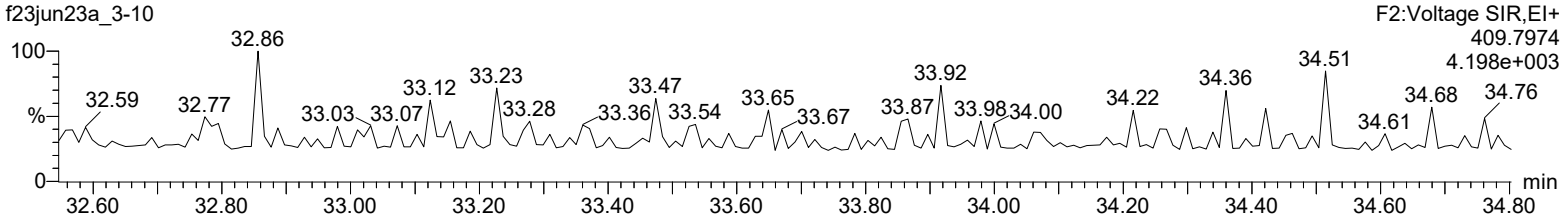
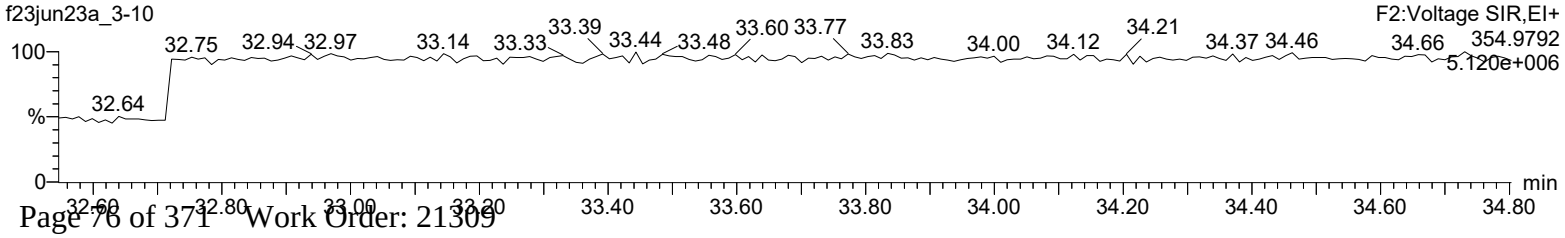


HpDPE



Lock Mass F2



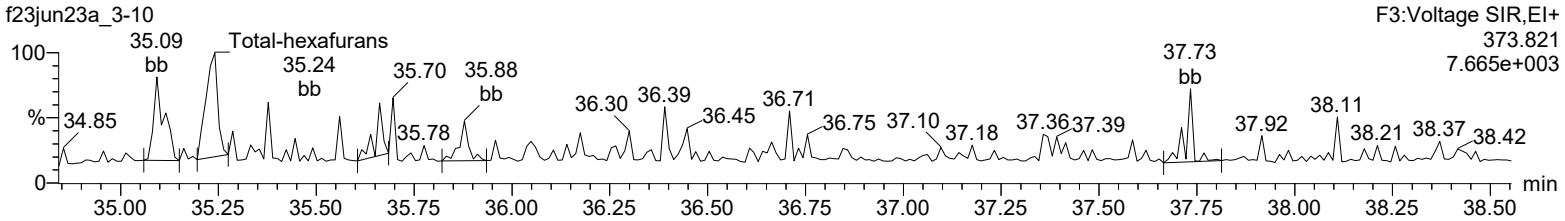
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

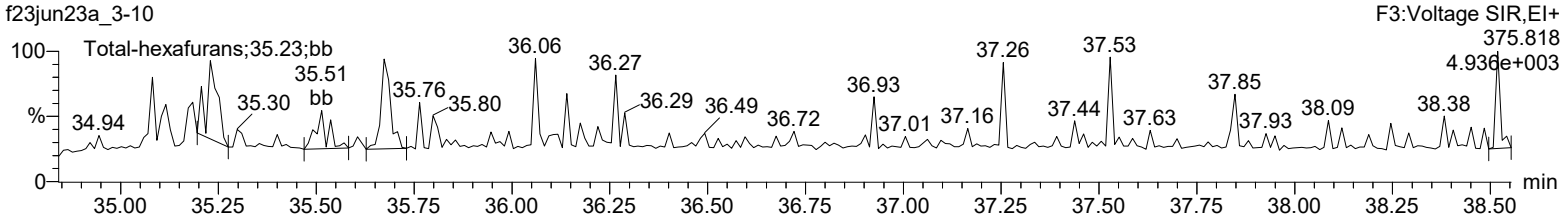
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

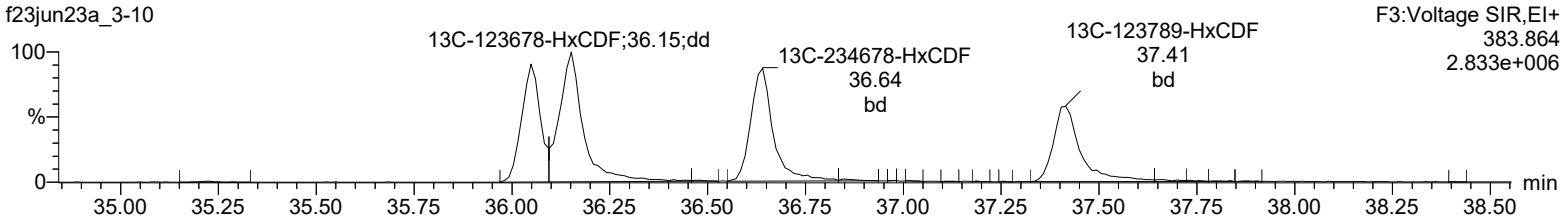
Total-hexafurans



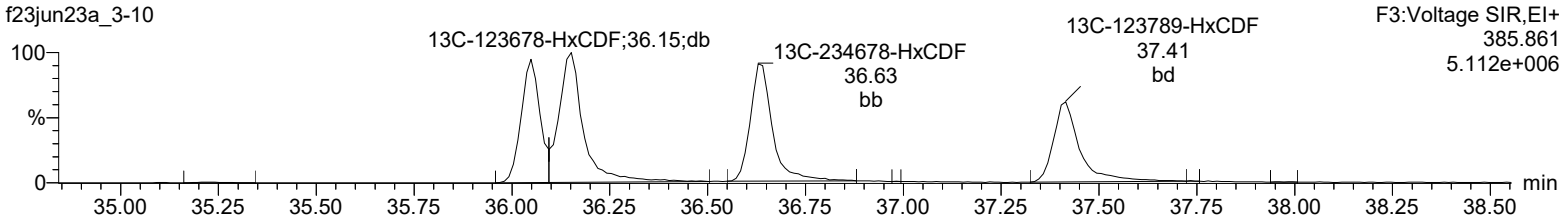
Total-hexafurans



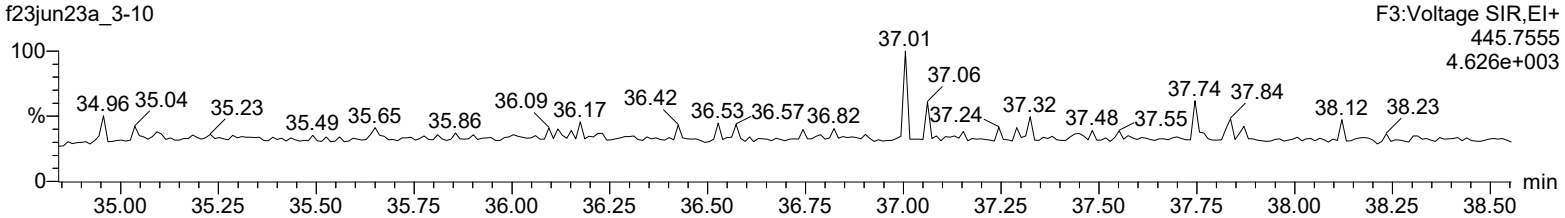
13C-123478-HxCDF



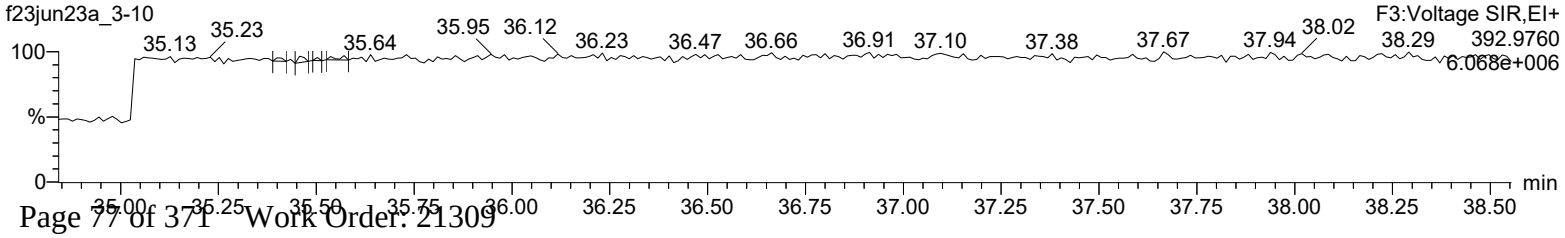
13C-123478-HxCDF



OcDPE



Lock Mass F3



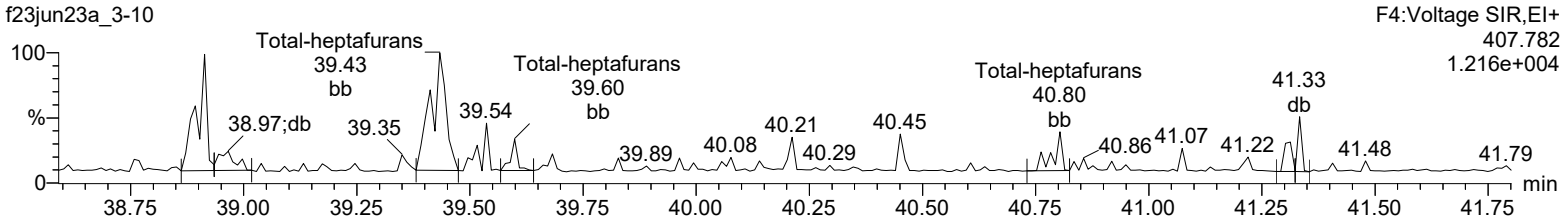
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

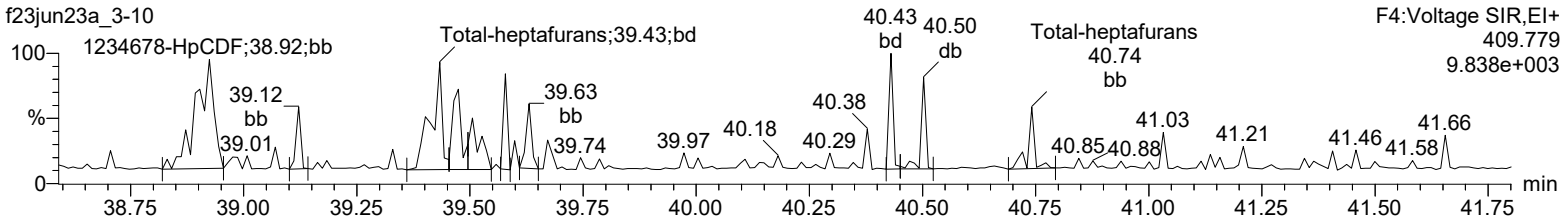
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

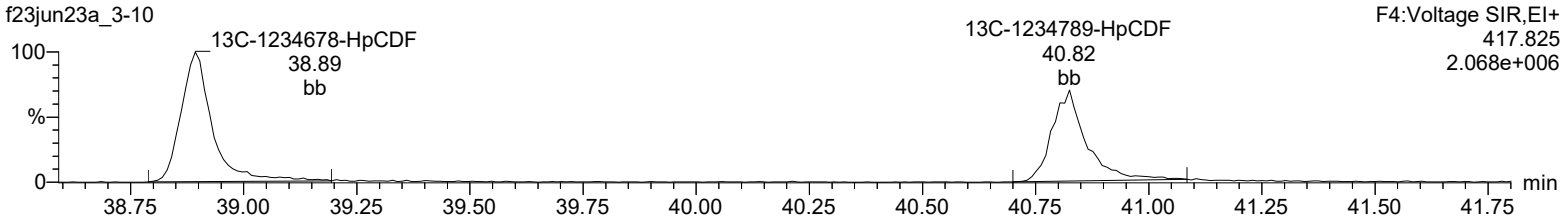
Total-heptafurans



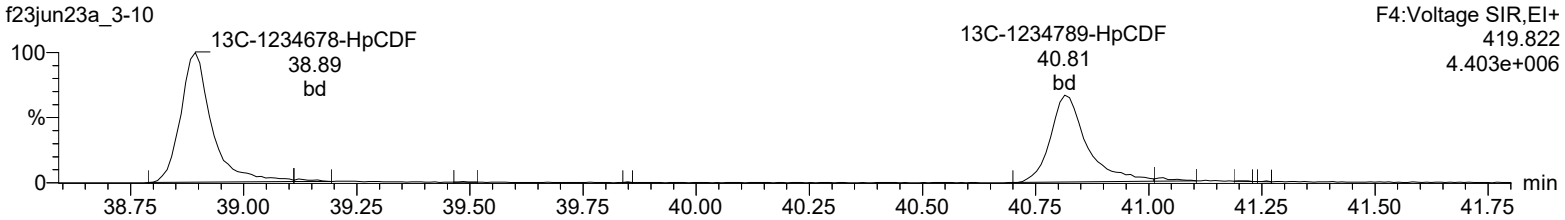
Total-heptafurans



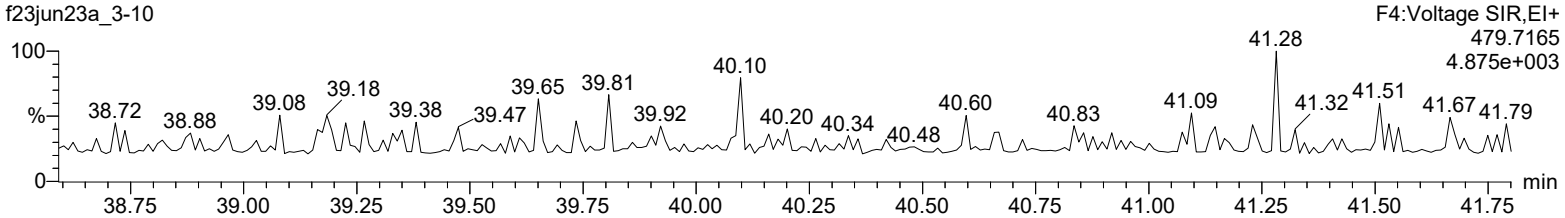
13C-1234678-HpCDF



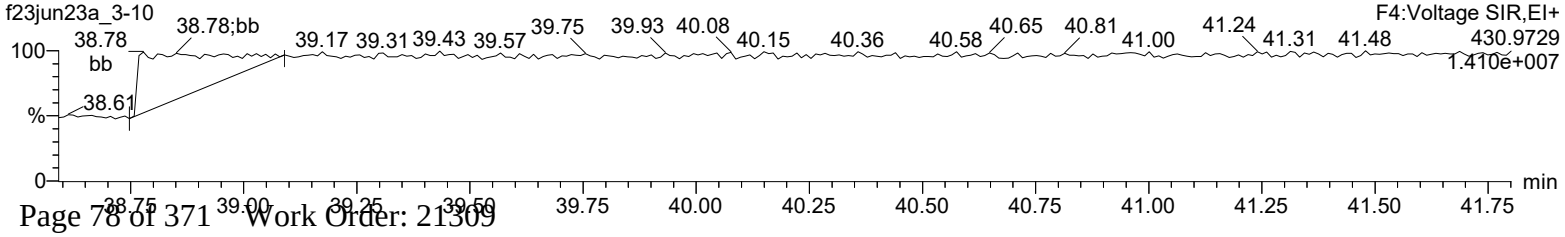
13C-1234678-HpCDF



NoDPE



Lock Mass F4



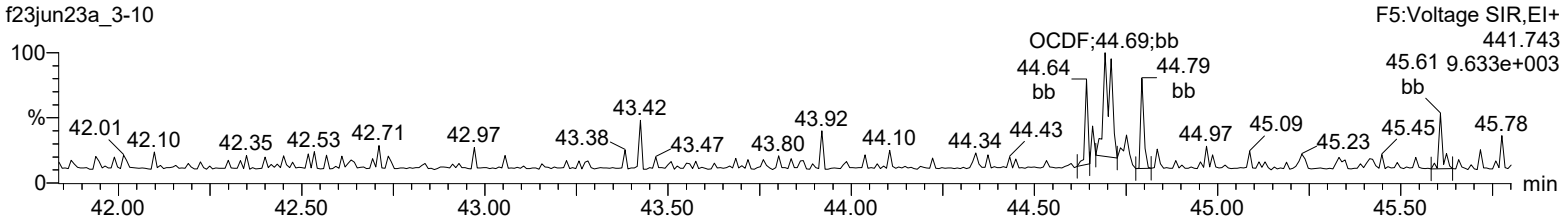
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

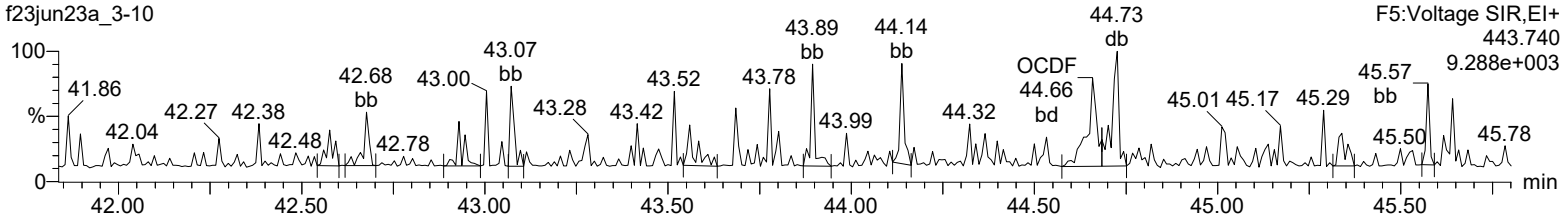
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-10, Date: 24-Jun-2023, Time: 16:07:53, ID: 21309002-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

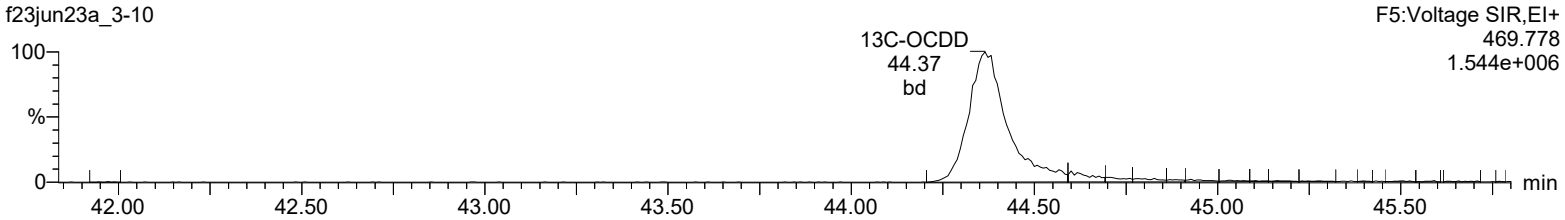
OCDF



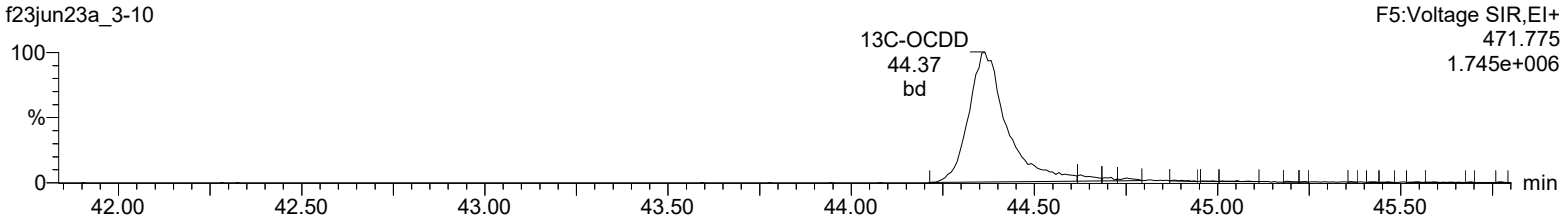
OCDF



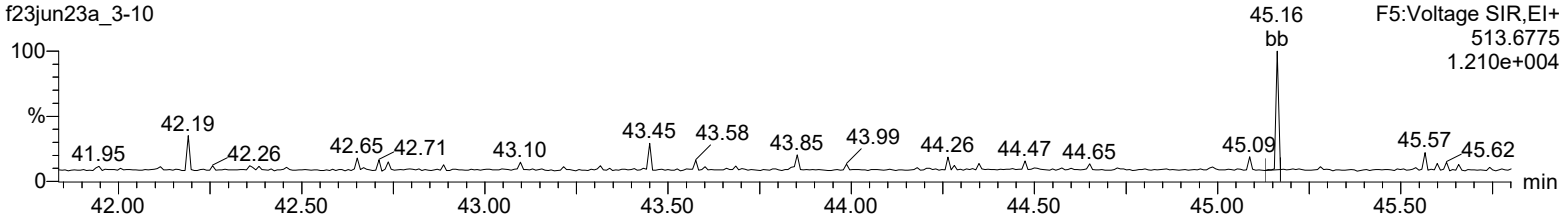
13C-OCDD



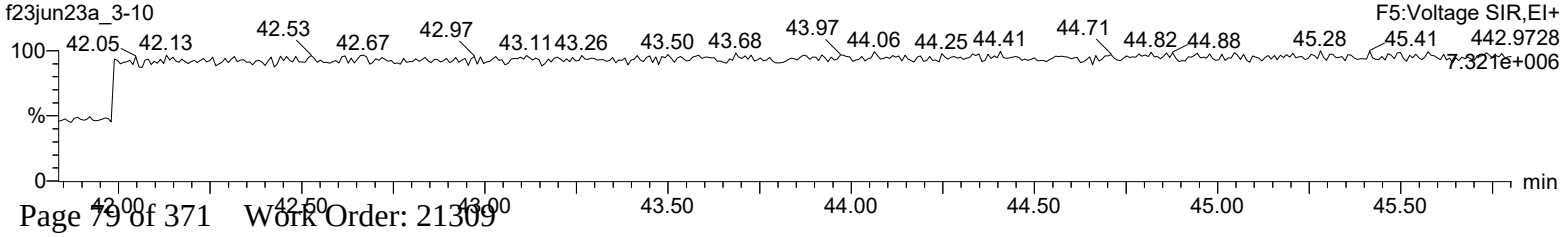
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309003**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR15-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 16:56**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**889 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.59	pg/L	2.59	5.62
40321-76-4	1,2,3,7,8-PeCDD	U	2.70	pg/L	2.70	28.1
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.19	pg/L	3.19	56.2
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.90	pg/L	2.90	56.2
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.04	pg/L	3.04	56.2
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	15.1	pg/L	5.38	56.2
3268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	104	pg/L	9.74	112
51207-31-9	2,3,7,8-TCDF	U	2.81	pg/L	2.81	11.2
57117-41-6	1,2,3,7,8-PeCDF	U	2.03	pg/L	2.03	56.2
57117-31-4	2,3,4,7,8-PeCDF	U	1.92	pg/L	1.92	56.2
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.58	pg/L	1.58	56.2
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.48	pg/L	1.48	56.2
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.64	pg/L	1.64	56.2
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.54	pg/L	2.54	56.2
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	3.94	pg/L	2.24	56.2
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.37	pg/L	3.37	56.2
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.00	pg/L	7.00	112
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.59	pg/L	2.59	11.2
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.70	pg/L	2.70	56.2
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	2.90	pg/L	2.90	56.2
TCDF	Total Tetrachlorodibenzofuran	U	2.81	pg/L	2.81	11.2
37871-00-4	Total Heptachlorodibenzo-p-dioxin	J	32.0	pg/L	5.38	56.2
30402-15-4	Total Pentachlorodibenzofuran	JK	1.37	pg/L	0.925	56.2
55684-94-1	Total Hexachlorodibenzofuran	JK	2.74	pg/L	1.48	56.2
38998-75-3	Total Heptachlorodibenzofuran	JK	9.76	pg/L	2.24	56.2
TEQ	TEQ WHO2005 ND=0		0.221	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.16	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1470	2250	pg/L	65.2	(25%-164%)
13C-1,2,3,7,8-PeCDD		1570	2250	pg/L	69.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1460	2250	pg/L	65.0	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1580	2250	pg/L	70.4	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1510	2250	pg/L	67.0	(23%-140%)
13C-OCDD		2520	4500	pg/L	56.0	(17%-157%)
13C-2,3,7,8-TCDF		1460	2250	pg/L	64.9	(24%-169%)
13C-1,2,3,7,8-PeCDF		1450	2250	pg/L	64.6	(24%-185%)
13C-2,3,4,7,8-PeCDF		1620	2250	pg/L	71.9	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1490	2250	pg/L	66.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1540	2250	pg/L	68.6	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1580	2250	pg/L	70.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1500	2250	pg/L	66.5	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309003**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR15-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 16:56**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-11**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**889 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1420	2250	pg/L	63.3	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1550	2250	pg/L	69.0	(26%-138%)
37Cl-2,3,7,8-TCDD		182	225	pg/L	81.0	(35%-197%)

Comments:

B **The target analyte was detected in the associated blank.**
J **Value is estimated**
K **Estimated Maximum Possible Concentration**
U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:38 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	6.84e1	1.44e2	2.12e2	31.30	1.000	0.48	YES	0.043	0.115	4.50e3	2424	1.9	4.54e3	933	4.9	db	bb
2	12378-PeCDD							NO		0.120		2001			1421			
3	123478-HxCDD							NO		0.142		1563			1277			
4	123678-HxCDD							NO		0.129		1563			1277			
5	123789-HxCDD							NO		0.135		1563			1277			
6	1234678-HpCDD	1.06e3	1.19e3	2.25e3	40.16	1.000	0.89	NO	0.671	0.239	2.13e4	1666	12.8	1.41e4	1828	7.7	MM	MM
7	OCDD	4.65e3	4.85e3	9.50e3	44.36	1.000	0.96	NO	4.608	0.433	5.38e4	1252	42.9	4.55e4	1695	26.9	MM	MM
8	2378-TCDF							NO		0.125		1487			3207			
9	12378-PeCDF	1.00e2	1.22e2	2.23e2	33.36	1.000	0.82	YES	0.026	0.0902	5.66e3	2399	2.4	4.73e3	3545	1.3	bb	bb
10	23478-PeCDF							NO		0.0854		2399			3545			
11	123478-HxCDF							NO		0.0703		1470			1417			
12	123678-HxCDF							NO		0.0657		1470			1417			
13	234678-HxCDF	1.25e2	1.76e2	3.01e2	36.65	1.001	0.71	YES	0.044	0.0731	3.79e3	1470	2.6	7.36e3	1417	5.2	MM	MM
14	123789-HxCDF							NO		0.113		1470			1417			
15	1234678-HpCDF	5.74e2	6.27e2	1.20e3	38.91	1.001	0.92	NO	0.175	0.0996	1.86e4	2383	7.8	1.02e4	1127	9.0	bd	MM
16	1234789-HpCDF							NO		0.150		2383			1127			
17	OCDF	5.06e2	4.95e2	1.00e3	44.69	1.007	1.02	NO	0.307	0.311	7.71e3	1631	4.7	1.04e4	1713	6.1	MM	MM
18	13C-2378-TCDD	2.00e5	2.47e5	4.47e5	31.28	1.017	0.81	NO	65.212	0.280	2.97e6	6032	491.7	3.51e6	3416	1028.5	bd	bb
19	13C-12378-PeCDD	2.12e5	1.30e5	3.41e5	34.15	1.110	1.63	NO	69.676	0.415	3.79e6	5879	644.2	2.28e6	4127	551.8	bd	bd
20	13C-123478-HxCDD	1.57e5	1.23e5	2.81e5	36.76	0.991	1.28	NO	64.958	0.788	2.61e6	7564	345.3	2.10e6	9661	217.4	bd	bd
21	13C-123678-HxCDD	2.09e5	1.60e5	3.68e5	36.85	0.994	1.31	NO	70.362	0.650	2.93e6	7564	387.7	2.20e6	9661	228.0	dd	dd
22	13C-1234678-HpCDD	1.46e5	1.27e5	2.73e5	40.14	1.082	1.15	NO	66.978	0.681	1.59e6	8303	191.2	1.41e6	5753	244.7	bd	bd
23	13C-OCDD	1.73e5	1.99e5	3.72e5	44.37	1.196	0.87	NO	111.989	0.625	1.43e6	5348	266.8	1.63e6	5169	315.4	bd	bd
24	13C-2378-TCDF	3.04e5	3.74e5	6.78e5	30.58	0.994	0.81	NO	64.911	0.160	3.11e6	4623	672.5	3.80e6	3588	1058.5	bb	bb
25	13C-12378-PeCDF	4.10e5	2.59e5	6.69e5	33.35	1.084	1.59	NO	64.646	0.495	7.94e6	16477	481.7	4.73e6	8717	542.6	bd	bb
26	13C-23478-PeCDF	4.38e5	2.62e5	7.01e5	33.96	1.104	1.67	NO	71.853	0.525	7.81e6	16477	474.2	4.85e6	8717	556.8	bd	dd
27	13C-123478-HxCDF	1.53e5	2.84e5	4.37e5	36.04	0.972	0.54	NO	66.429	0.726	2.53e6	11570	219.0	4.80e6	12629	380.1	bd	bd
28	13C-123678-HxCDF	1.88e5	3.71e5	5.59e5	36.14	0.975	0.51	NO	68.609	0.587	2.68e6	11570	231.6	5.13e6	12629	406.3	dd	dd
29	13C-234678-HxCDF	1.58e5	3.20e5	4.78e5	36.63	0.988	0.50	NO	70.124	0.701	2.30e6	11570	198.6	4.66e6	12629	369.3	bb	dd
30	13C-123789-HxCDF	1.40e5	2.64e5	4.03e5	37.40	1.009	0.53	NO	66.471	0.788	1.70e6	11570	146.8	3.12e6	12629	247.4	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:38 PM Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.56e5	3.39e5	4.96e5	38.88	1.048	0.46	NO	63.284	0.625	2.01e6	11473	175.0	4.15e6	13303	311.6	bd	bd
32	13C-1234789-HpCDF	1.28e5	2.94e5	4.21e5	40.81	1.101	0.44	NO	68.983	0.801	1.30e6	11473	113.6	2.95e6	13303	221.5	bd	bd
33	13C-1234-TCDD	2.70e5	3.33e5	6.02e5	30.77	0.000	0.81	NO	100.000	0.319	3.32e6	6032	549.7	4.02e6	3416	1177.0	bb	bb
34	13C-123789-HxCDD	2.78e5	2.32e5	5.10e5	37.08	0.000	1.20	NO	100.000	0.668	3.52e6	7564	465.1	2.70e6	9661	279.9	dd	dd
35	37Cl-2378-TCDD	5.48e4		5.48e4	31.30	1.017			8.096	0.0786	8.01e5	2617	306.0				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-11, ID:21309003-1, Description: 52698

M	M2
6 1234678-HpCDD 40.16 - AB	6 1234678-HpCDD 40.16 - AB
7 OCDD 44.36 - AB	7 OCDD 44.36 - AB
13 234678-HxCDF 36.65 - AB	13 234678-HxCDF 36.65 - AB
	15 1234678-HpCDF 38.91 - AB
17 OCDF 44.69 - AB	17 OCDF 44.69 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:38 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	1.02e2	6.24e1	1.65e2	26.69	1.64	YES	0.034	0.115	1.96e3	2424	0.8	2.05e3	933	2.2	bd	bb
2	2378-TCDD	6.84e1	1.44e2	2.12e2	31.30	0.48	YES	0.043	0.115	4.50e3	2424	1.9	4.54e3	933	4.9	db	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentadioxins	1.44e2	1.18e2	2.62e2	33.37	1.22	YES	0.066	0.120	2.42e3	2001	1.2	7.13e3	1421	5.0	bd	bb
2	Total-pentadioxins	8.28e1	1.51e2	2.34e2	34.19	0.55	YES	0.059	0.120	2.45e3	2001	1.2	4.36e3	1421	3.1	bb	bb

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	1.91e2	2.47e2	4.37e2	35.53	0.77	YES	0.126	0.135	4.05e3	1563	2.6	4.21e3	1277	3.3	MM	MM
2	Total-hexadioxins	1.20e2	5.57e1	1.76e2	36.03	2.16	YES	0.051	0.135	2.55e3	1563	1.6	1.26e3	1277	1.0	bd	bb
3	Total-hexadioxins	5.74e2	2.24e2	7.98e2	36.25	2.57	YES	0.230	0.135	5.83e3	1563	3.7	2.92e3	1277	2.3	MM	MM
4	Total-hexadioxins	5.46e1	7.69e1	1.32e2	36.82	0.71	YES	0.038	0.135	4.25e3	1563	2.7	2.53e3	1277	2.0	bb	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	1.19e3	1.33e3	2.52e3	39.25	0.89	NO	0.752	0.239	1.98e4	1666	11.9	2.38e4	1828	13.0	MM	MM
2	Total-heptadioxins	8.63e1	1.03e2	1.89e2	39.31	0.84	YES	0.056	0.239	2.87e3	1666	1.7	2.91e3	1828	1.6	MM	dd
3	1234678-HpCDD	1.06e3	1.19e3	2.25e3	40.16	0.89	NO	0.671	0.239	2.13e4	1666	12.8	1.41e4	1828	7.7	MM	MM
4	Total-heptadioxins	1.24e2	5.51e1	1.79e2	40.28	2.25	YES	0.053	0.239	3.61e3	1666	2.2	3.13e3	1828	1.7	db	dd

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:38 PM Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	5.32e1	7.73e1	1.31e2	27.16	0.69	NO	0.014	0.125	2.16e3	1487	1.5	3.44e3	3207	1.1	bd	bd
2	Total-tetrafurans	1.06e2	1.07e2	2.13e2	27.22	1.00	YES	0.023	0.125	2.37e3	1487	1.6	3.05e3	3207	1.0	db	dd
3	Total-tetrafurans	5.44e1	1.71e2	2.25e2	27.39	0.32	YES	0.025	0.125	1.31e3	1487	0.9	5.07e3	3207	1.6	bb	dd
4	Total-tetrafurans	6.25e1	5.77e1	1.20e2	28.55	1.08	YES	0.013	0.125	3.57e3	1487	2.4	2.78e3	3207	0.9	bb	db
5	Total-tetrafurans	7.77e1	1.36e2	2.14e2	28.99	0.57	YES	0.023	0.125	1.95e3	1487	1.3	4.02e3	3207	1.3	bb	db
6	Total-tetrafurans	6.71e1	1.87e2	2.54e2	29.23	0.36	YES	0.028	0.125	4.58e3	1487	3.1	5.86e3	3207	1.8	bb	bb
7	Total-tetrafurans	1.07e2	2.20e2	3.27e2	29.61	0.49	YES	0.036	0.125	2.84e3	1487	1.9	7.19e3	3207	2.2	bd	bd
8	Total-tetrafurans	6.41e1	1.61e2	2.25e2	29.73	0.40	YES	0.025	0.125	3.82e3	1487	2.6	3.62e3	3207	1.1	db	db
9	Total-tetrafurans	6.47e1	2.57e2	3.22e2	30.07	0.25	YES	0.035	0.125	1.77e3	1487	1.2	5.11e3	3207	1.6	bb	bd
10	Total-tetrafurans	5.99e1	9.30e1	1.53e2	30.34	0.64	YES	0.017	0.125	1.71e3	1487	1.1	3.40e3	3207	1.1	bb	bb
11	Total-tetrafurans	1.67e2	1.47e2	3.13e2	30.92	1.14	YES	0.034	0.125	5.79e3	1487	3.9	5.50e3	3207	1.7	bb	dd
12	Total-tetrafurans	5.14e1	1.27e2	1.78e2	31.15	0.41	YES	0.019	0.125	2.05e3	1487	1.4	4.23e3	3207	1.3	bb	bb
13	Total-tetrafurans	6.57e1	1.22e2	1.87e2	32.19	0.54	YES	0.020	0.125	3.74e3	1487	2.5	5.76e3	3207	1.8	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	5.31e1	1.93e2	2.46e2	31.73	0.28	YES	0.027	0.0411	9.04e2	828	1.1	1.26e4	1960	6.4	bd	bb
2	Total-pentafurans (F1)	3.05e2	2.48e2	5.53e2	31.94	1.23	YES	0.061	0.0411	7.86e3	828	9.5	5.54e3	1960	2.8	db	bb

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	3.90e2	1.66e2	5.56e2	32.79	2.35	YES	0.061	0.0877	1.01e4	2399	4.2	7.52e3	3545	2.1	bb	db
2	12378-PeCDF	1.00e2	1.22e2	2.23e2	33.36	0.82	YES	0.026	0.0902	5.66e3	2399	2.4	4.73e3	3545	1.3	bb	bb
3	Total-pentafurans	7.49e1	5.81e1	1.33e2	33.85	1.29	YES	0.015	0.0877	2.94e3	2399	1.2	5.63e3	3545	1.6	bb	bb
4	Total-pentafurans	8.34e1	1.05e2	1.89e2	33.98	0.79	YES	0.021	0.0877	3.44e3	2399	1.4	1.03e4	3545	2.9	bb	bb
5	Total-pentafurans	7.52e1	5.25e1	1.28e2	34.17	1.43	NO	0.014	0.0877	6.04e3	2399	2.5	4.35e3	3545	1.2	bb	bb
6	Total-pentafurans	5.08e1	1.08e2	1.59e2	34.43	0.47	YES	0.017	0.0877	2.78e3	2399	1.2	4.85e3	3545	1.4	bb	db

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:38 PM Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	3.84e2	4.04e2	7.87e2	35.24	0.95	YES	0.122	0.0784	6.69e3	1470	4.5	1.08e4	1417	7.6	db	MM
2	Total-hexafurans	8.54e1	2.29e2	3.14e2	35.66	0.37	YES	0.048	0.0784	3.17e3	1470	2.2	7.99e3	1417	5.6	bd	bb
3	234678-HxCDF	1.25e2	1.76e2	3.01e2	36.65	0.71	YES	0.044	0.0731	3.79e3	1470	2.6	7.36e3	1417	5.2	MM	MM

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDF	5.74e2	6.27e2	1.20e3	38.91	0.92	NO	0.175	0.0996	1.86e4	2383	7.8	1.02e4	1127	9.0	bd	MM
2	Total-heptafurans	1.22e2	2.45e2	3.67e2	38.96	0.50	YES	0.058	0.122	7.56e3	2383	3.2	2.15e4	1127	19.1	db	db
3	Total-heptafurans	1.07e2	9.80e1	2.05e2	39.05	1.09	NO	0.033	0.122	3.93e3	2383	1.6	4.54e3	1127	4.0	bb	bb
4	Total-heptafurans	5.32e1	6.10e1	1.14e2	39.17	0.87	YES	0.018	0.122	3.81e3	2383	1.6	5.37e3	1127	4.8	bb	bb
5	Total-heptafurans	1.03e3	6.00e2	1.63e3	39.44	1.72	YES	0.259	0.122	1.98e4	2383	8.3	1.29e4	1127	11.5	MM	MM

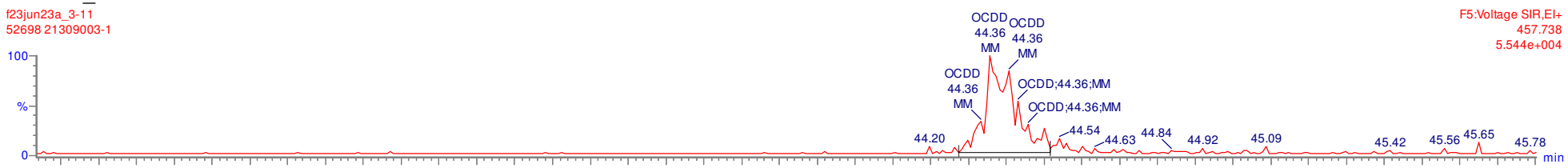
Reasons for Analyst Intervention

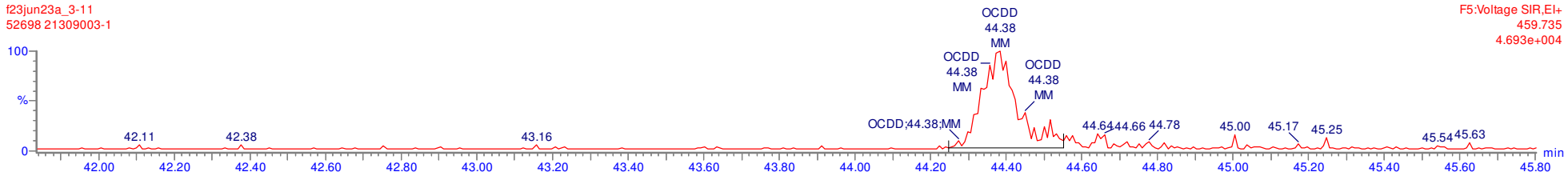
Name:f23jun23a_3-11, ID:21309003-1, Description: 52698

M	M2
1 Total-hexadioxins 35.53 - AB	1 Total-hexadioxins 35.53 - AB
3 Total-hexadioxins 36.25 - AB	3 Total-hexadioxins 36.25 - AB
1 Total-heptadioxins 39.25 - AB	1 Total-heptadioxins 39.25 - AB
2 Total-heptadioxins 39.31 - AB	
3 1234678-HpCDD 40.16 - AB	3 1234678-HpCDD 40.16 - AB
	1 Total-hexafurans 35.24 - AB
3 234678-HxCDF 36.65 - AB	3 234678-HxCDF 36.65 - AB
	1 1234678-HpCDF 38.91 - AB
5 Total-heptafurans 39.44 - AB	5 Total-heptafurans 39.44 - AB

Reason Codes assigned by MW1 on 28-JUN-23

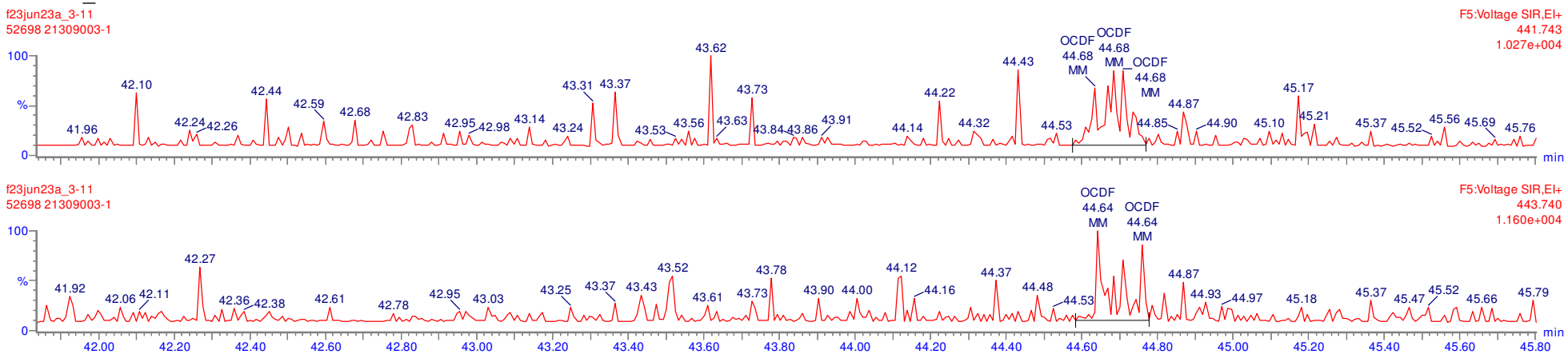
MANUAL INTEGRATION
METHOD 1613
HRP722_2





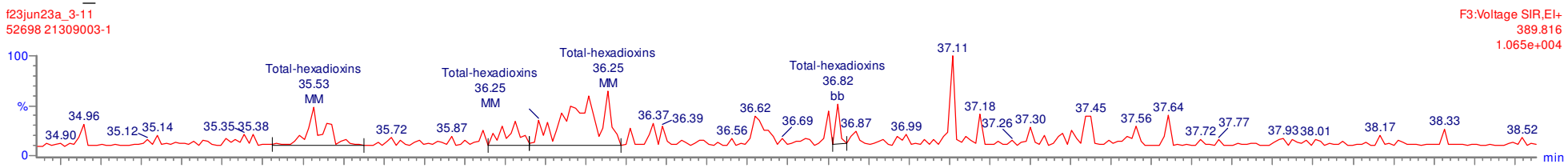
06/28/2023 06/29/2023

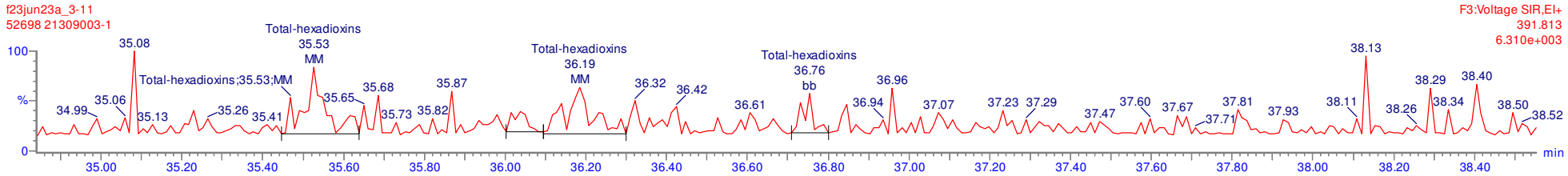
MANUAL INTEGRATION
METHOD 1613
HRP722_2



MW 06/28/2023 AMA 06/29/2023

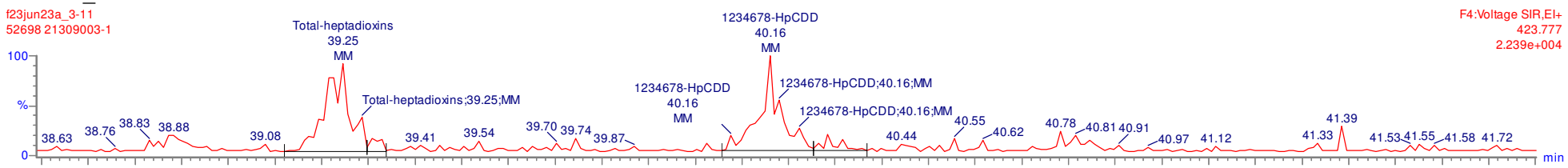
MANUAL INTEGRATION
METHOD 1613
HRP722_2

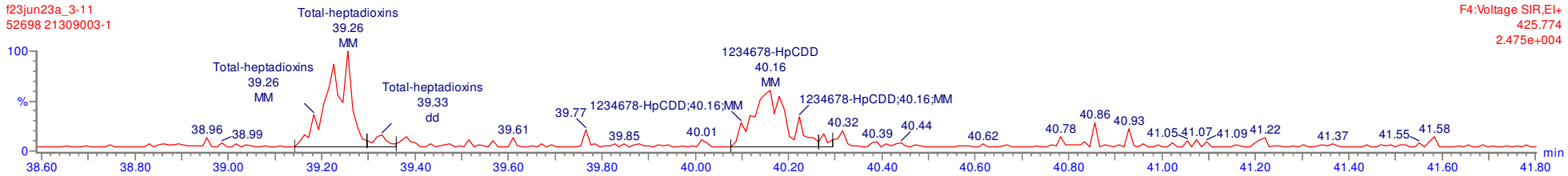




MW 06/28/2023 AMA 06/29/2023

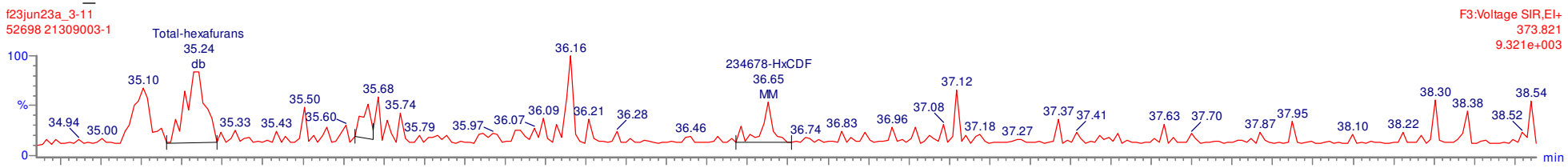
MANUAL INTEGRATION
METHOD 1613
HRP722_2

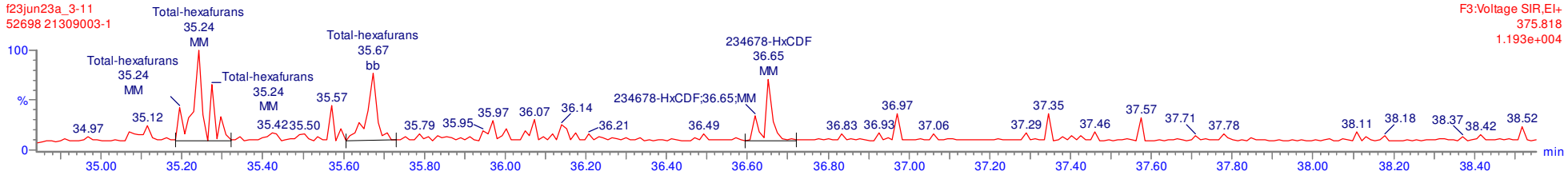




06/28/2023 06/29/2023

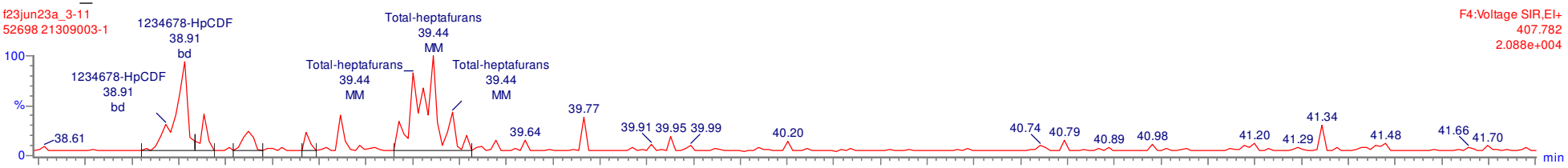
MANUAL INTEGRATION
METHOD 1613
HRP722_2

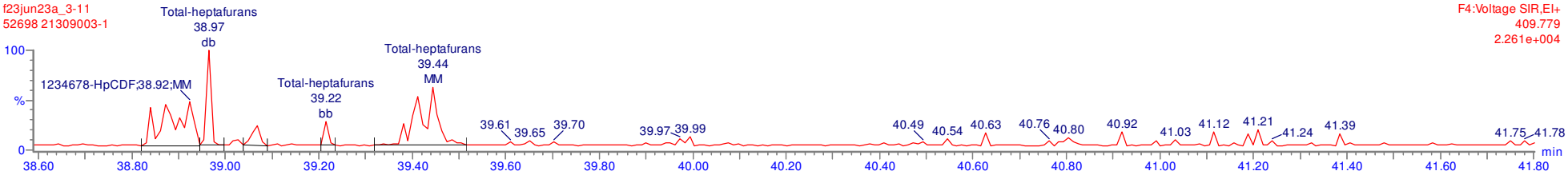




06/28/2023 06/29/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

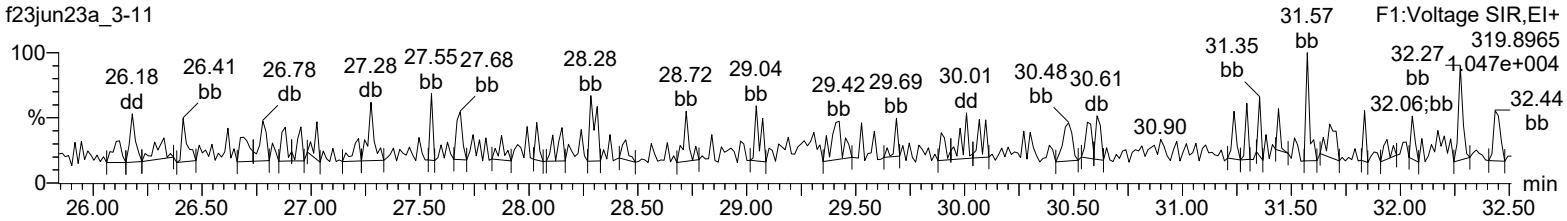
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

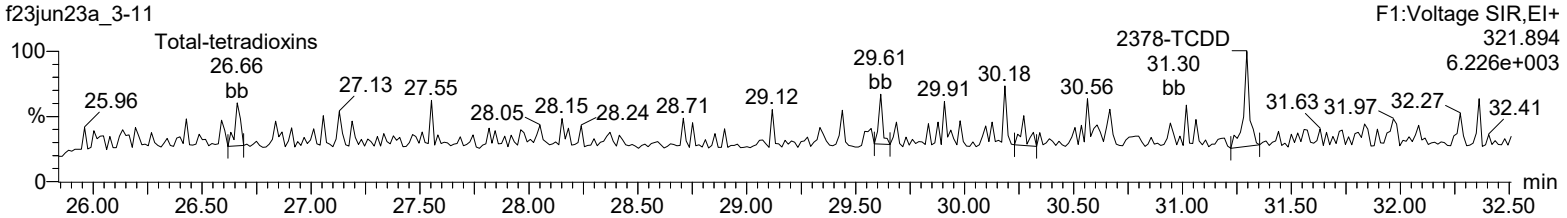
AMA 06/29/2023

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

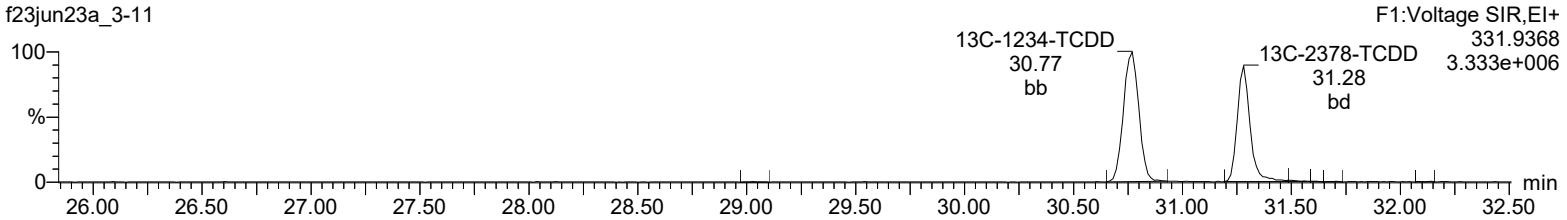
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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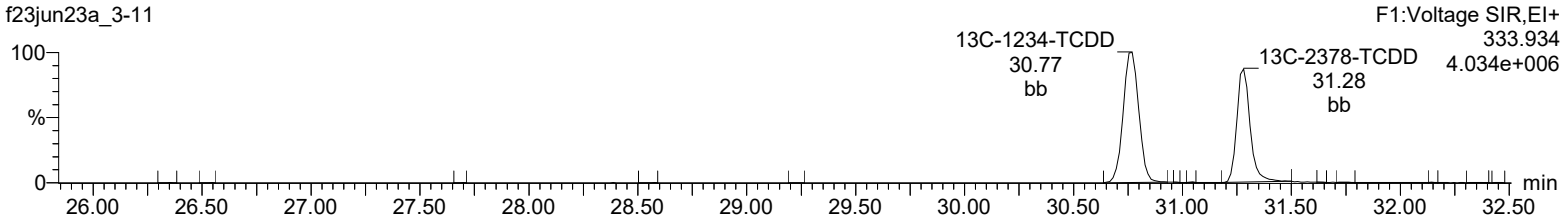
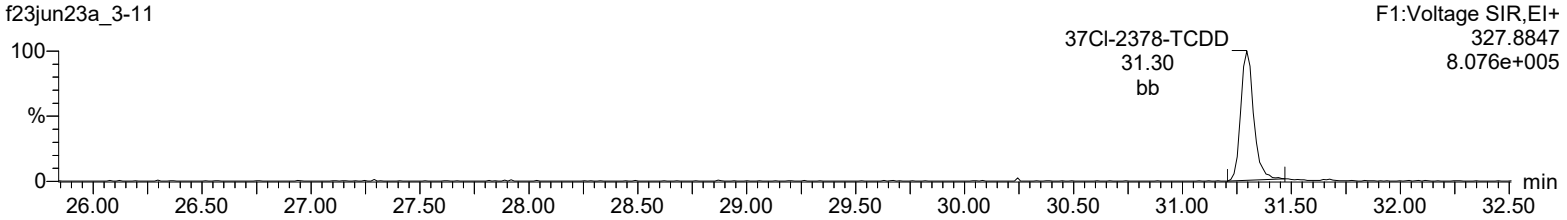
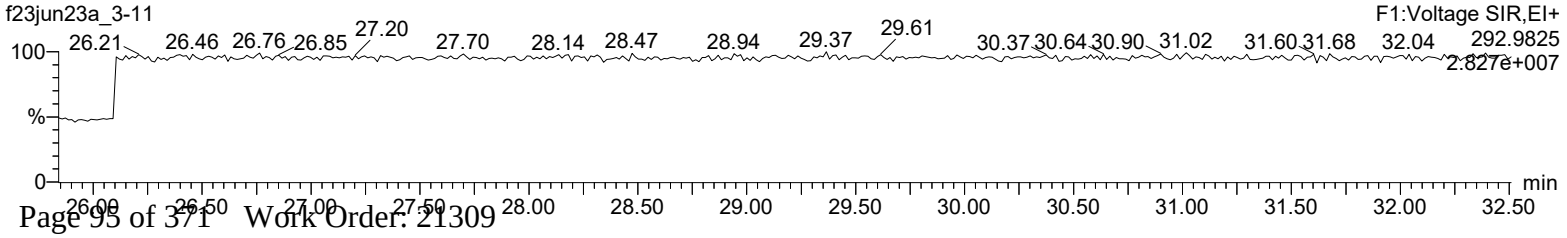


37Cl-2378-TCDD



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

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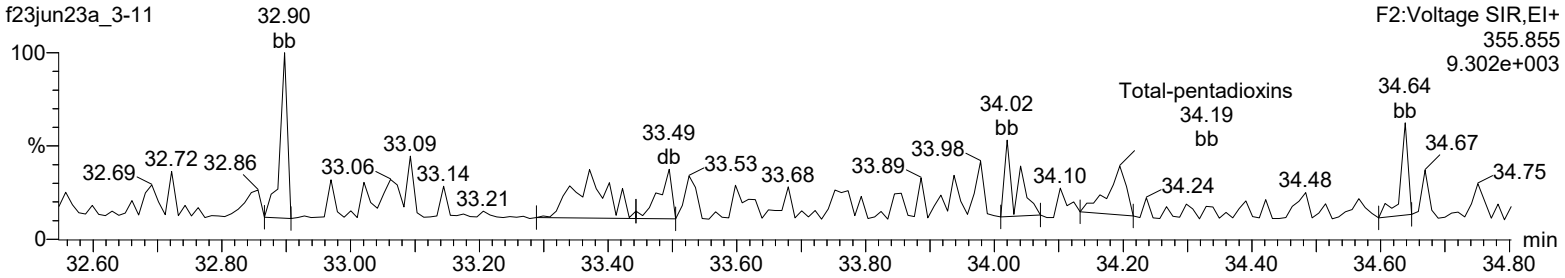
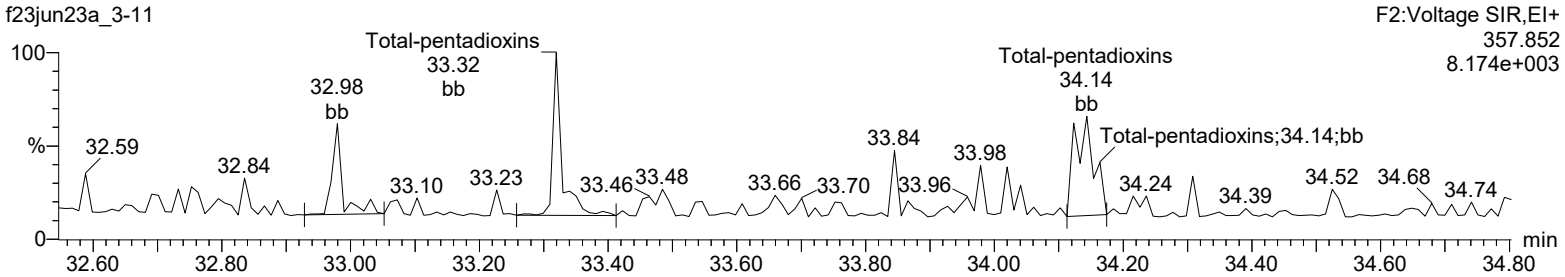
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

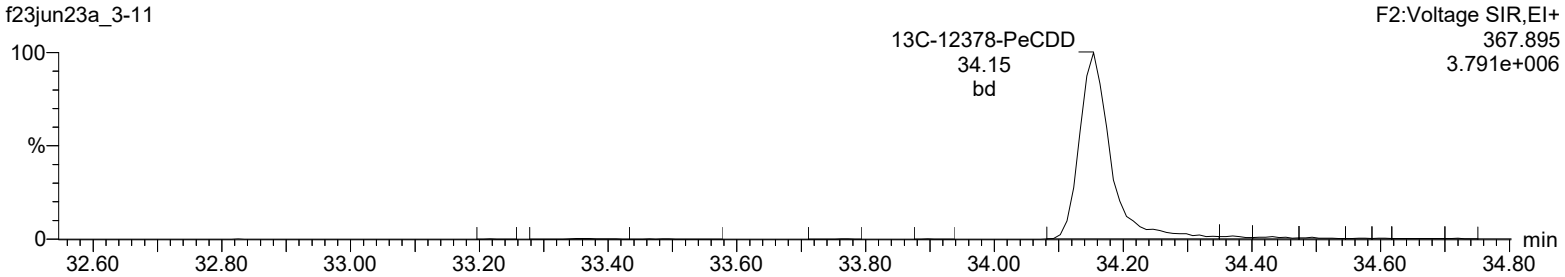
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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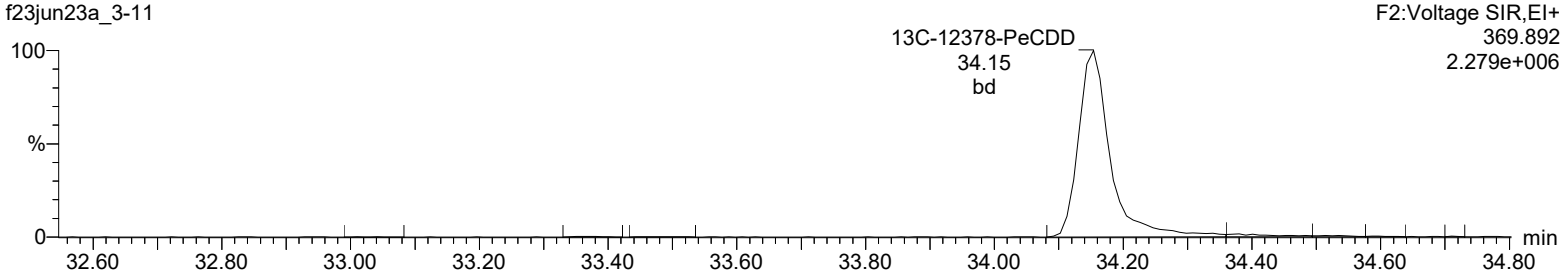
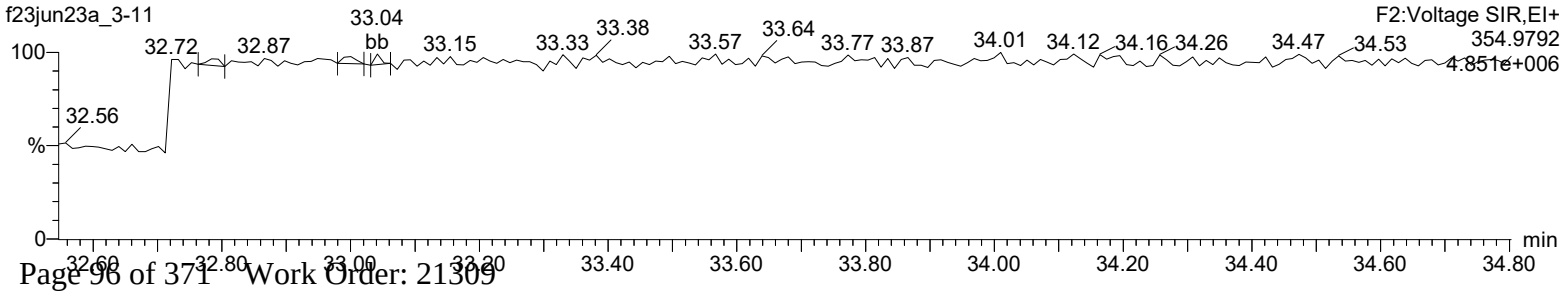


Lock Mass F2



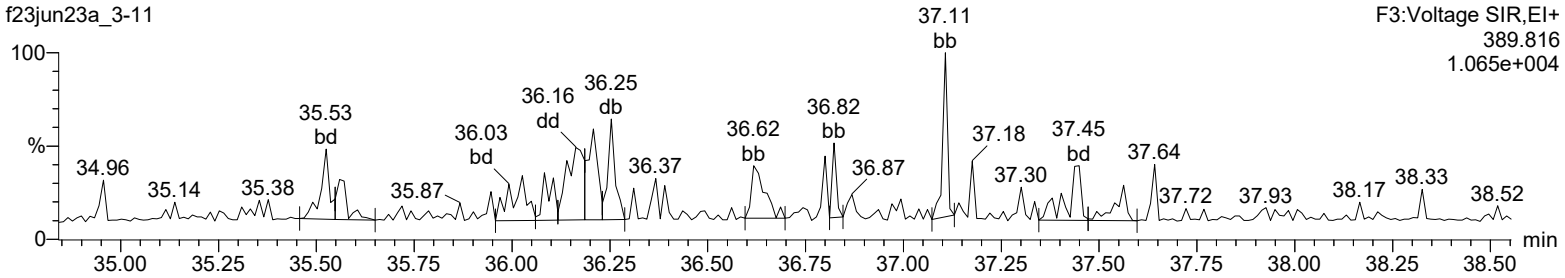
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

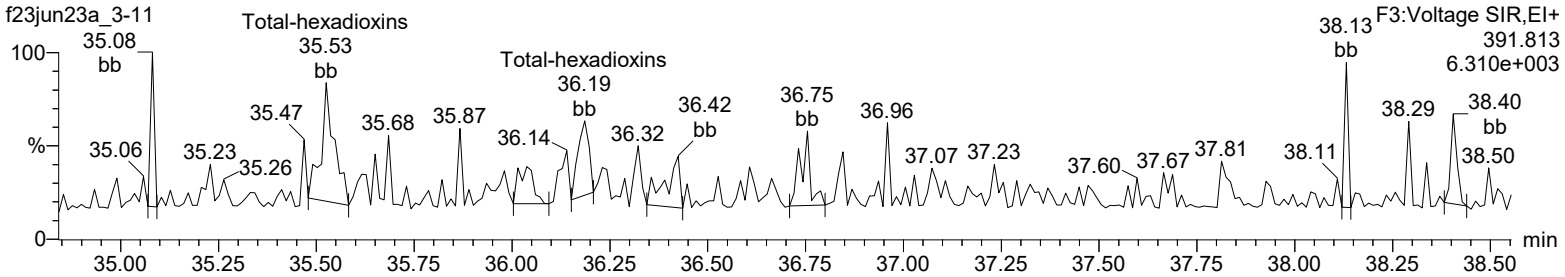
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-hexadioxins



Total-hexadioxins



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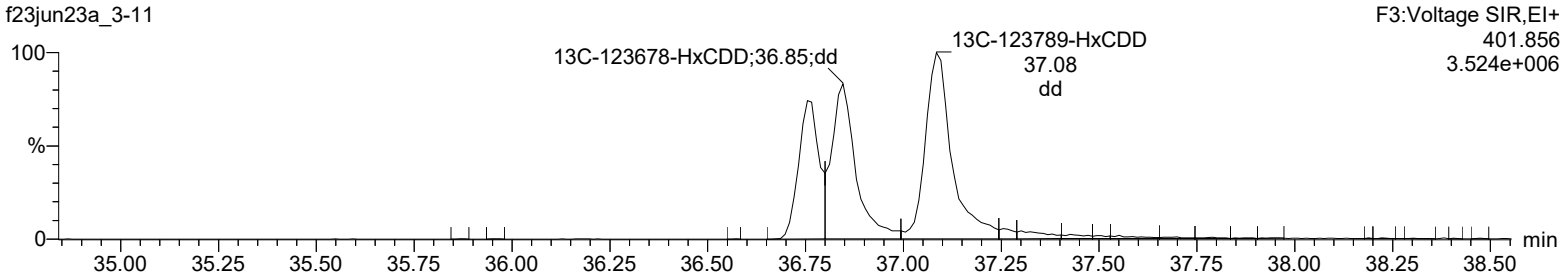

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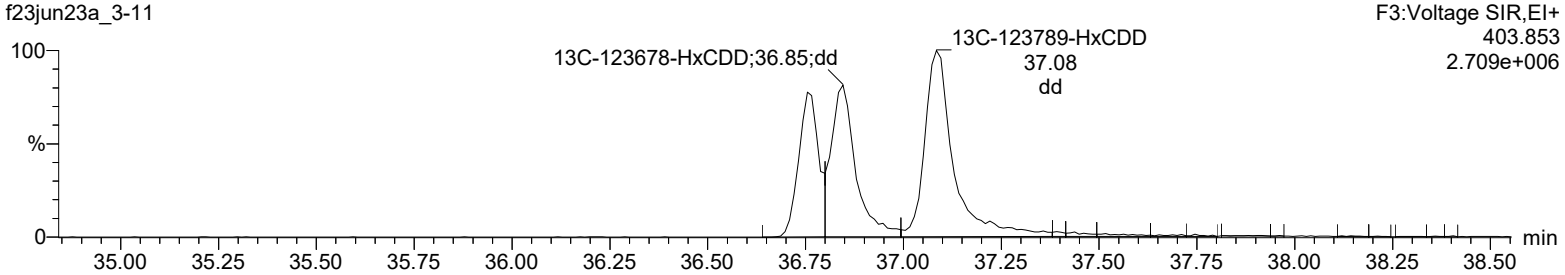

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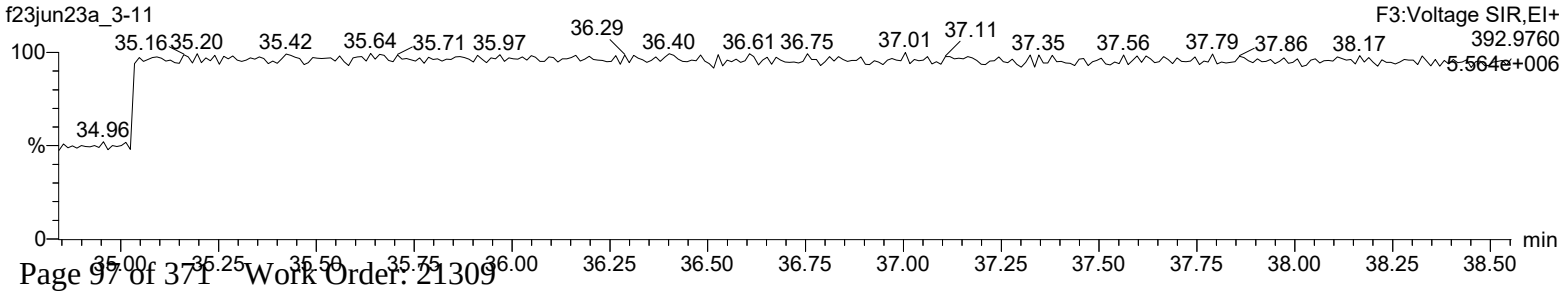

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

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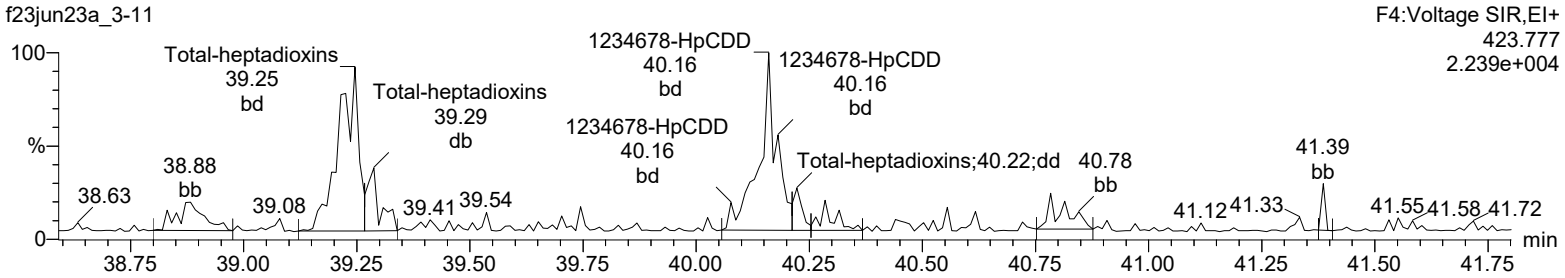
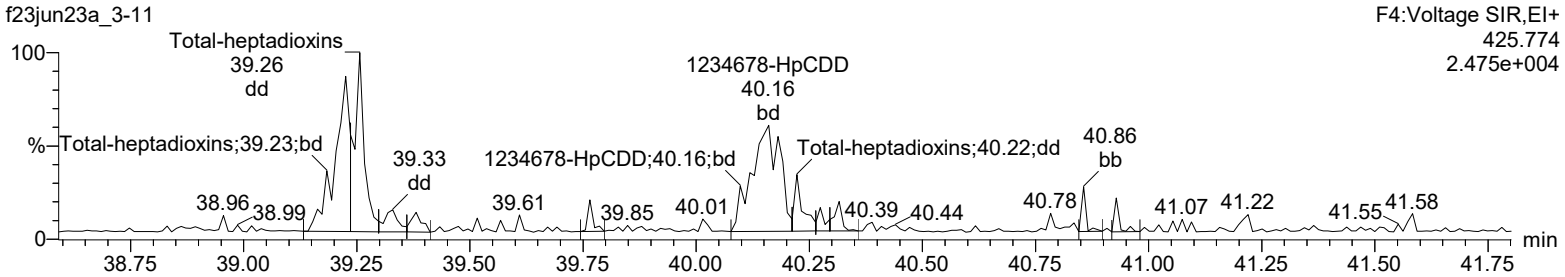
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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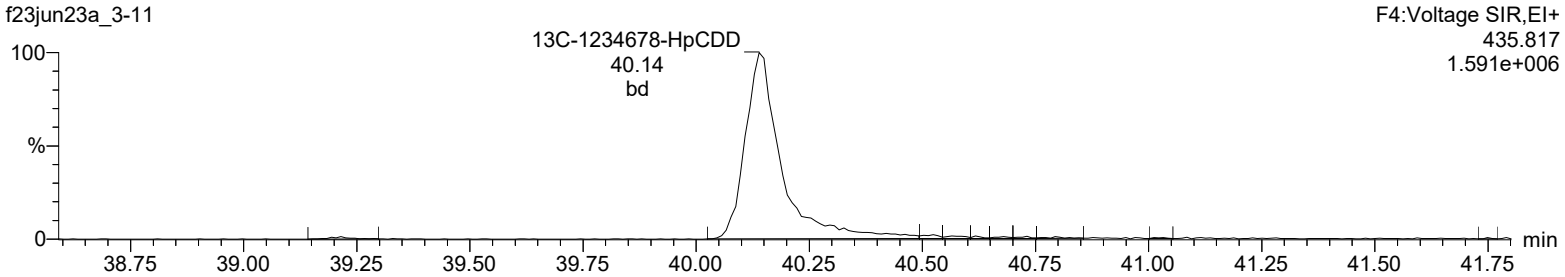
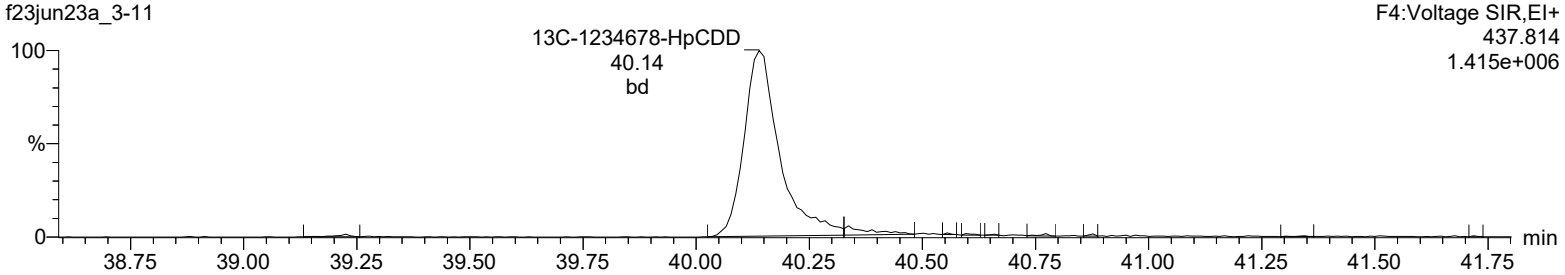
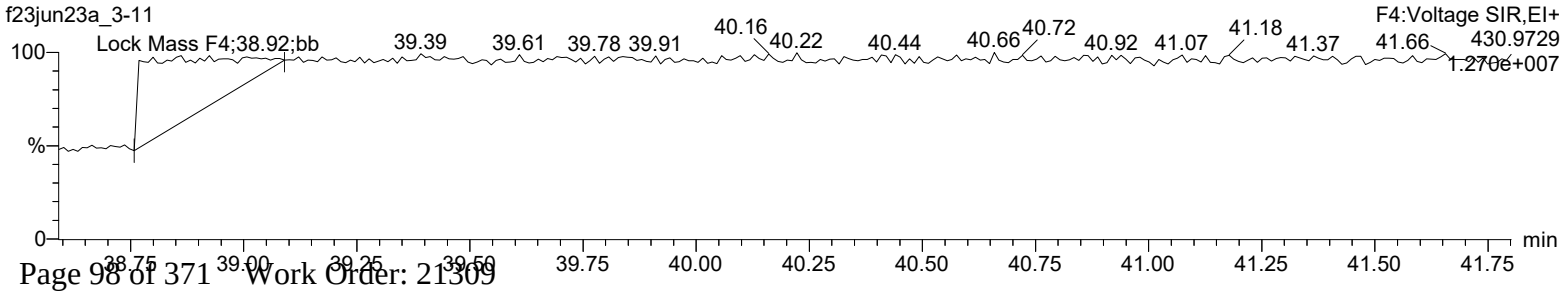


13C-1234678-HpCDD



Lock Mass F4



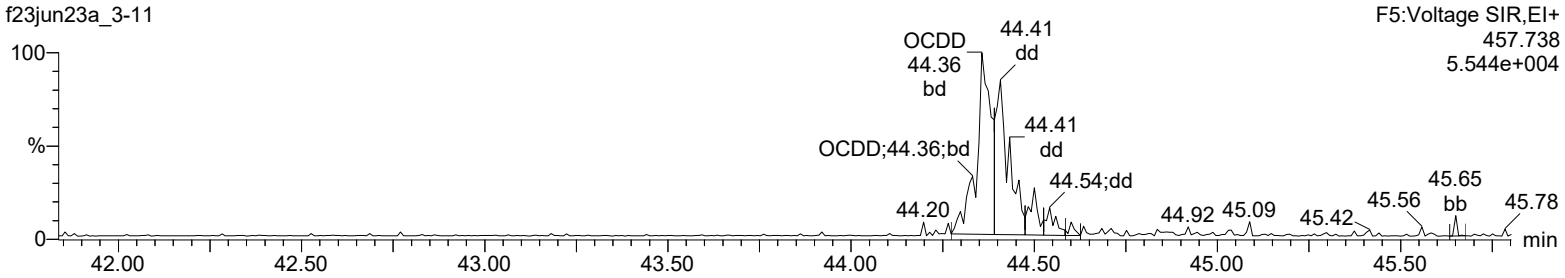
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

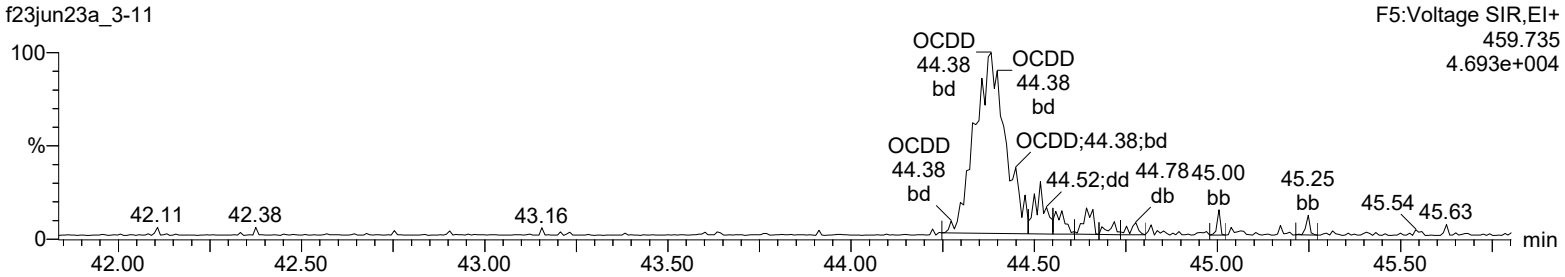
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

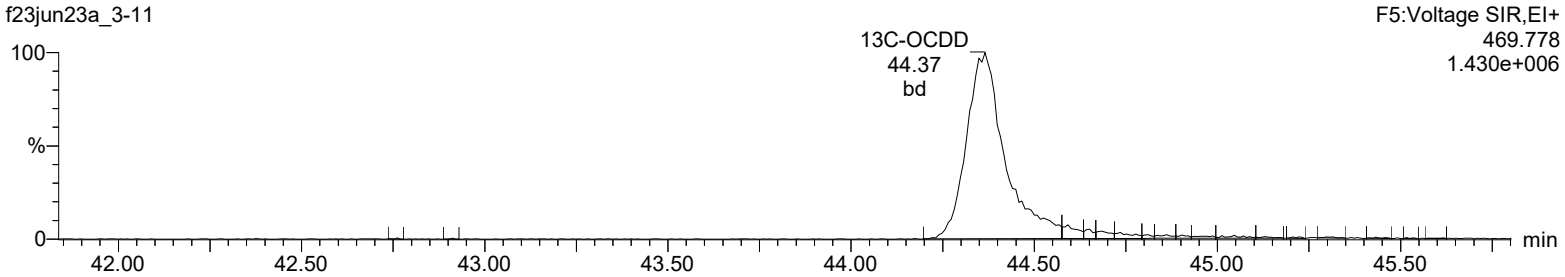
OCDD



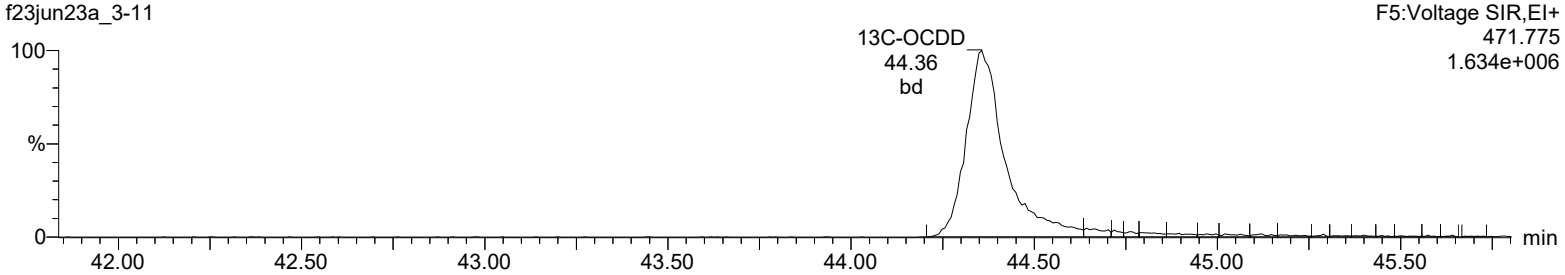
OCDD



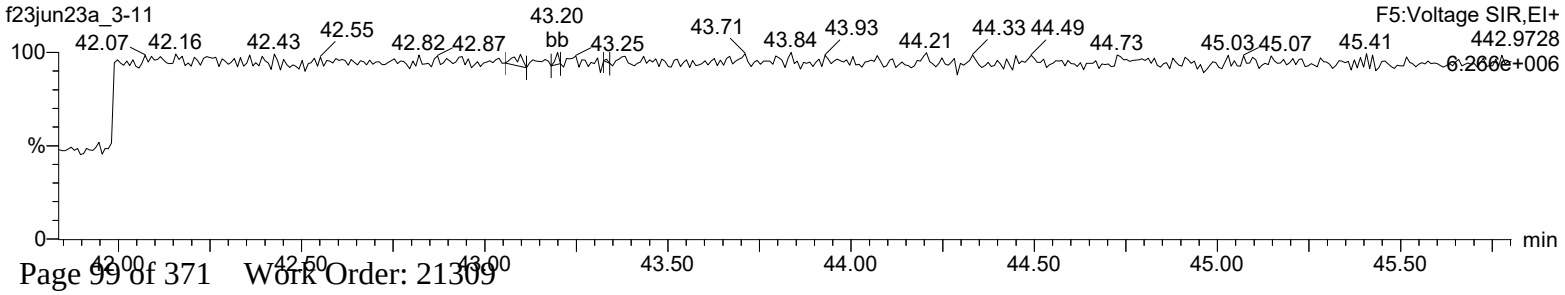
13C-OCDD



13C-OCDD



Lock Mass F5



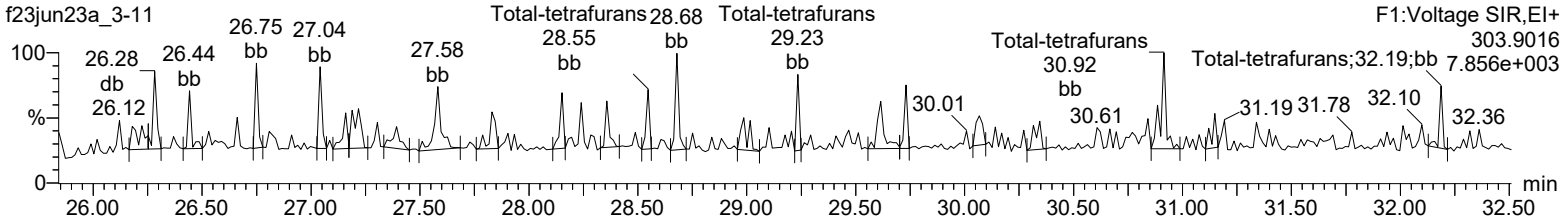
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

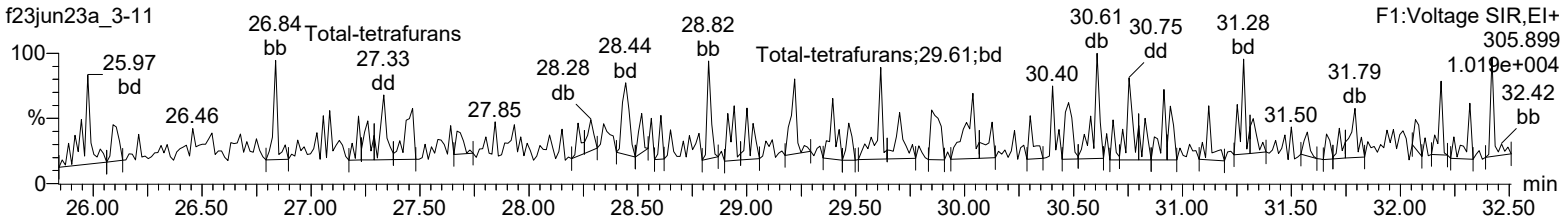
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

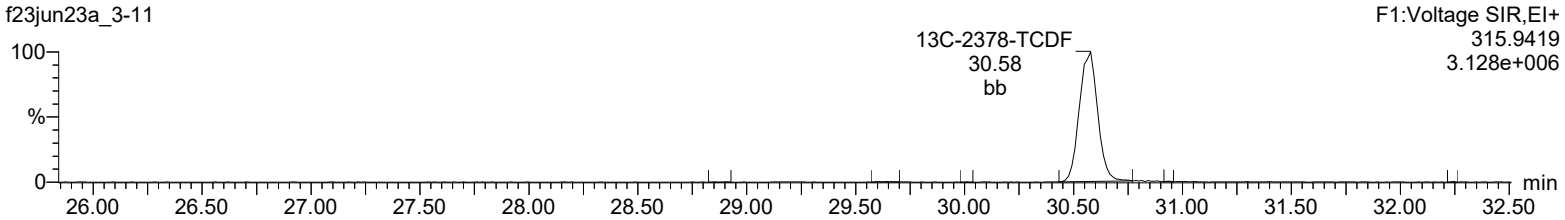
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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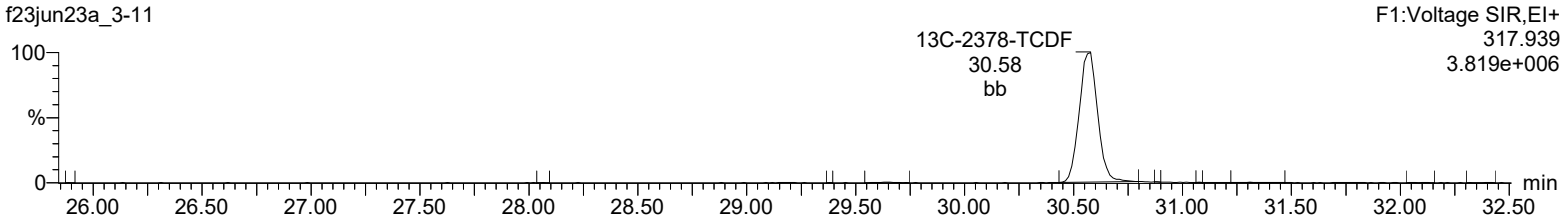
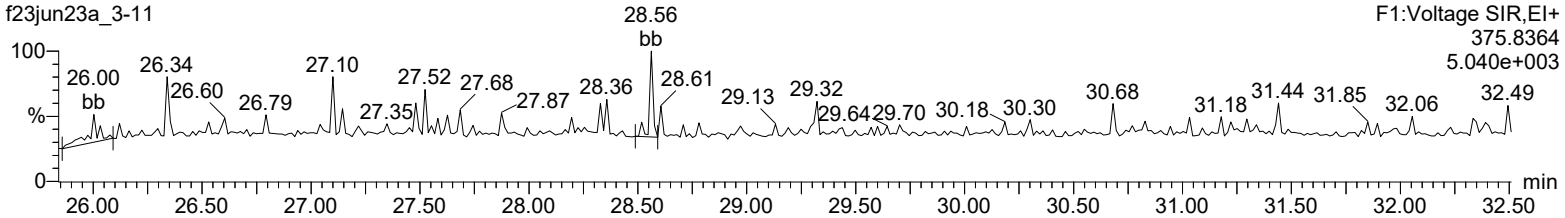
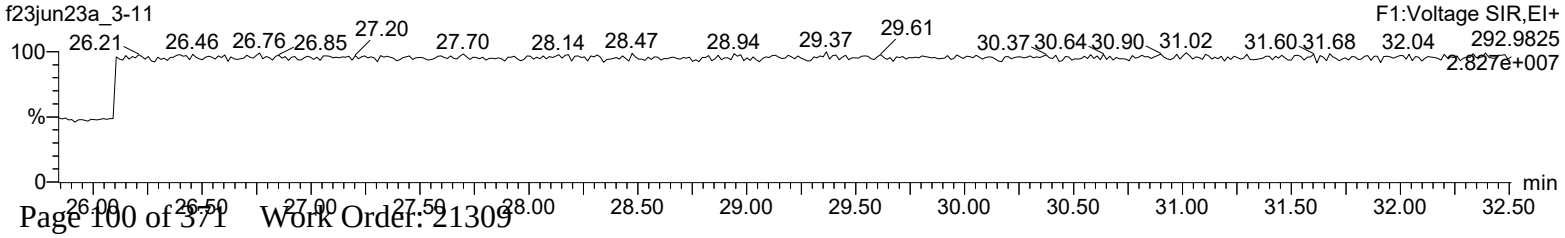


HxDPE



Lock Mass F1



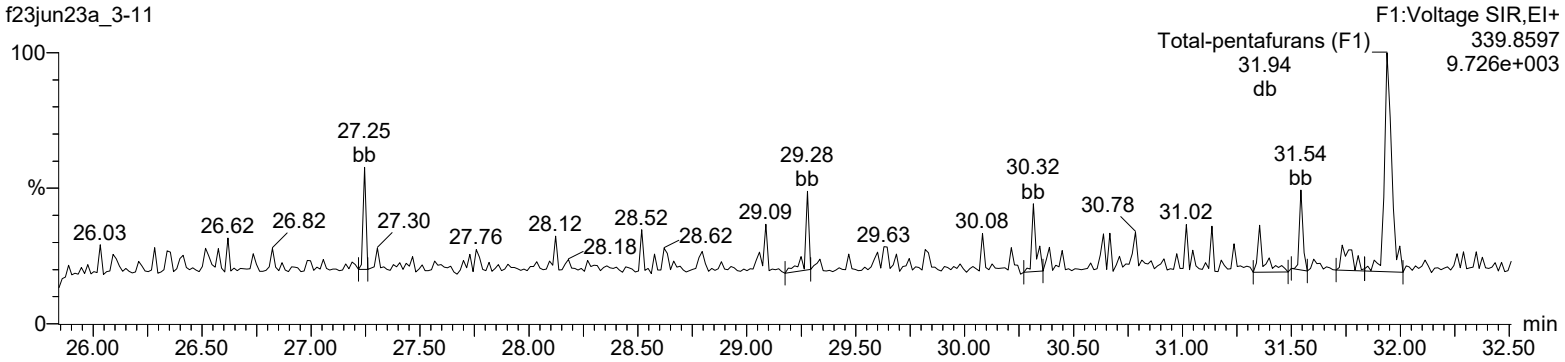
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

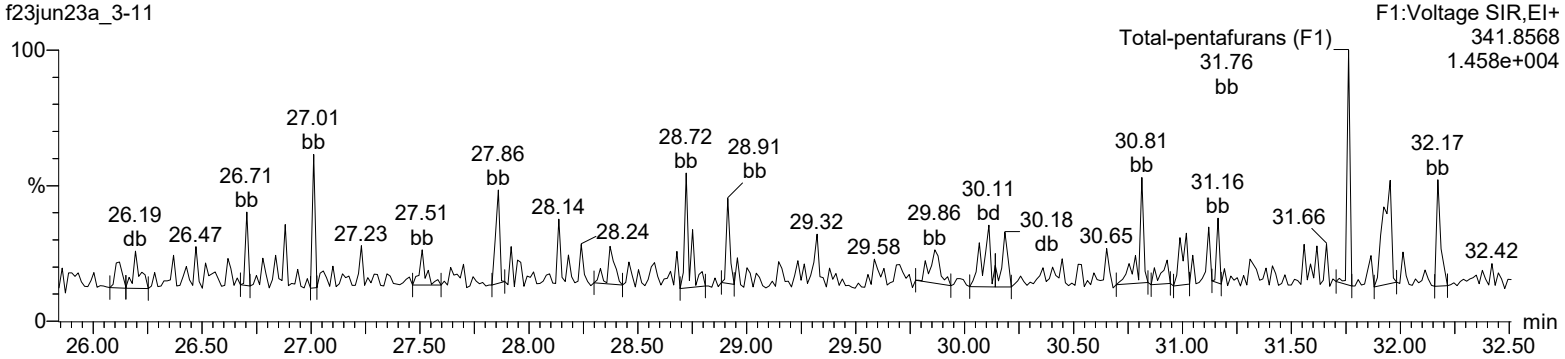
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-pentafurans (F1)



Total-pentafurans (F1)



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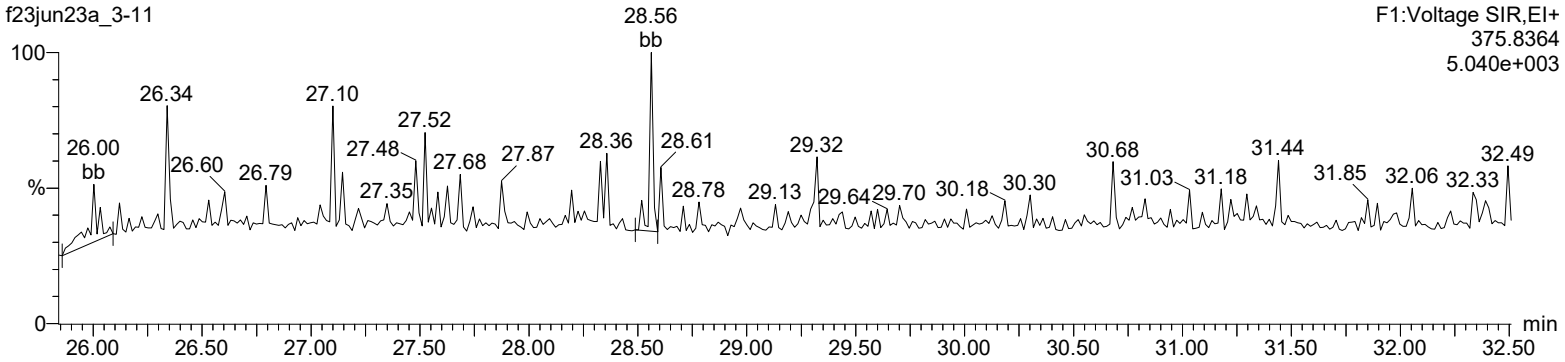
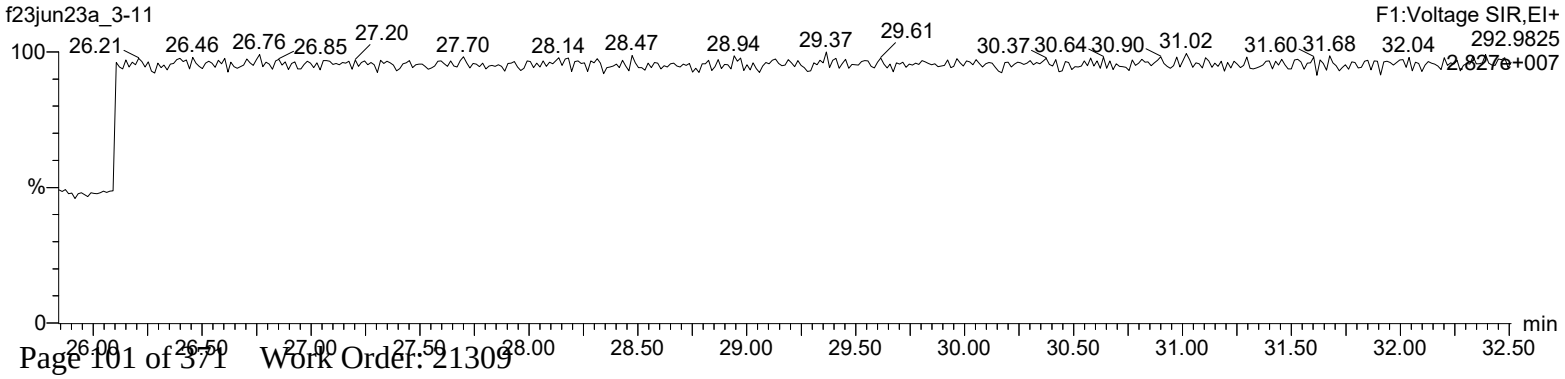


Lock Mass F1



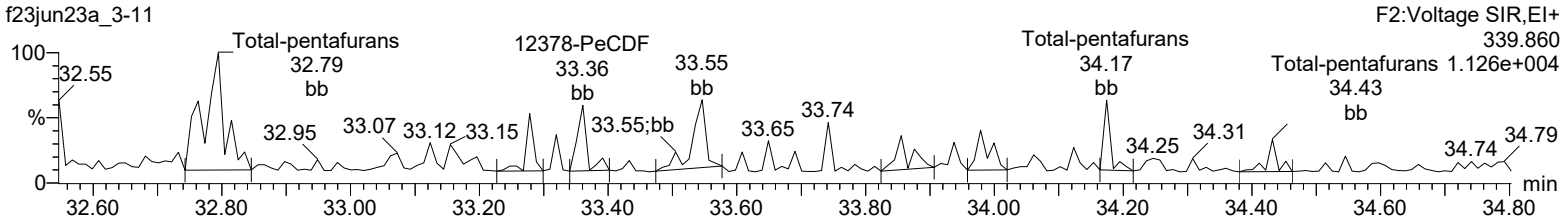
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

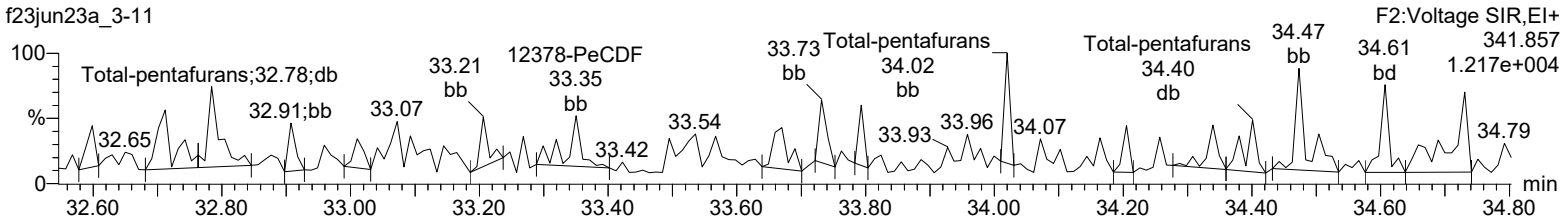
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

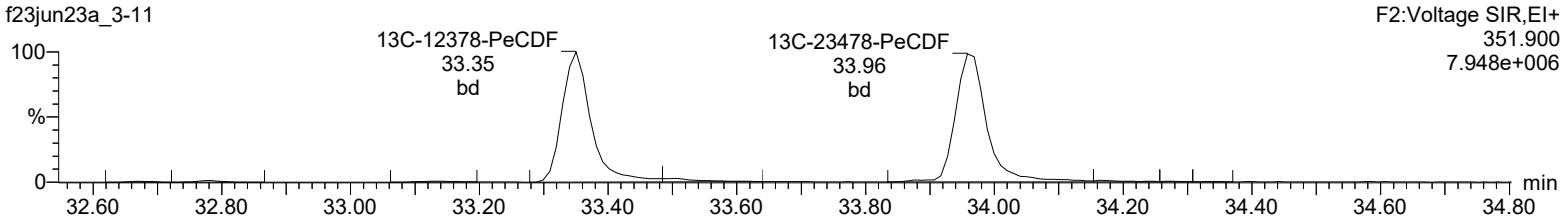
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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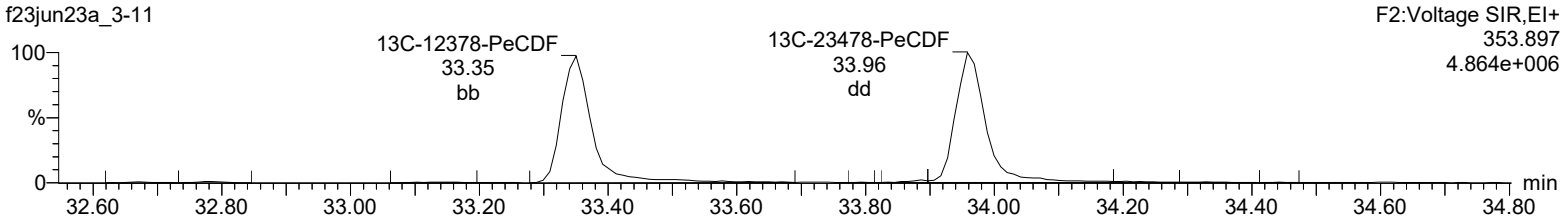
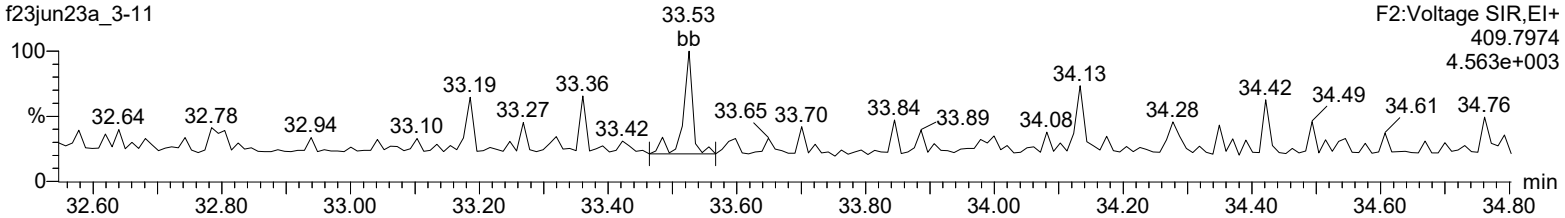
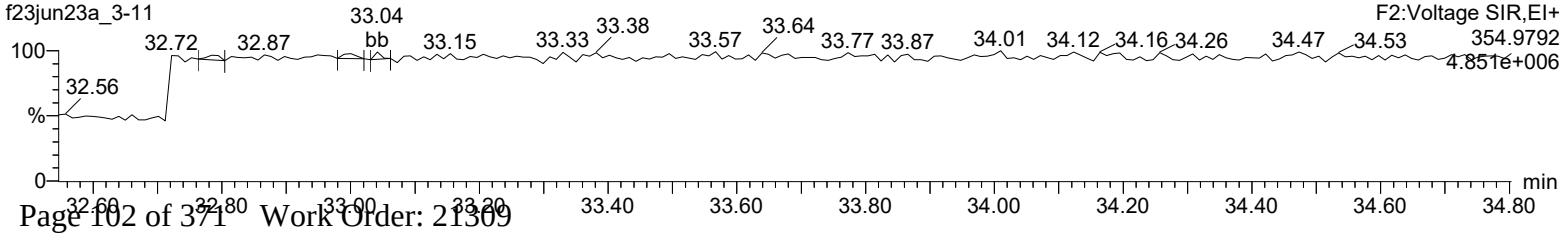


HpDPE



Lock Mass F2



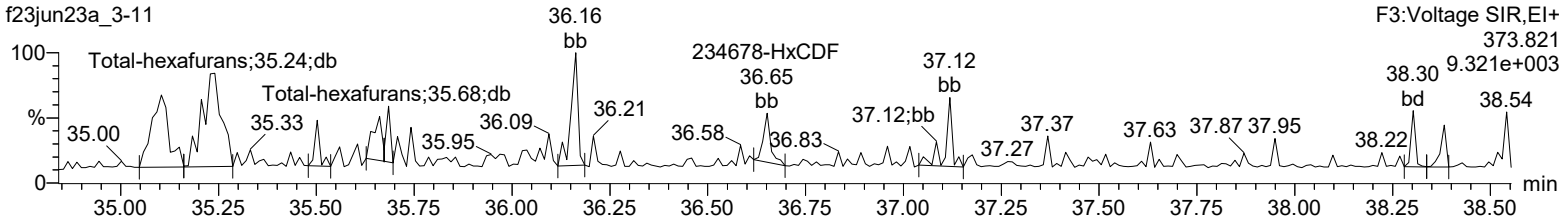
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

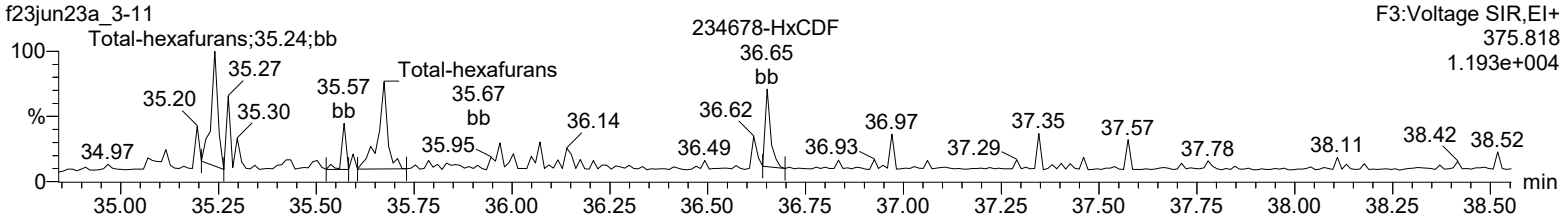
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

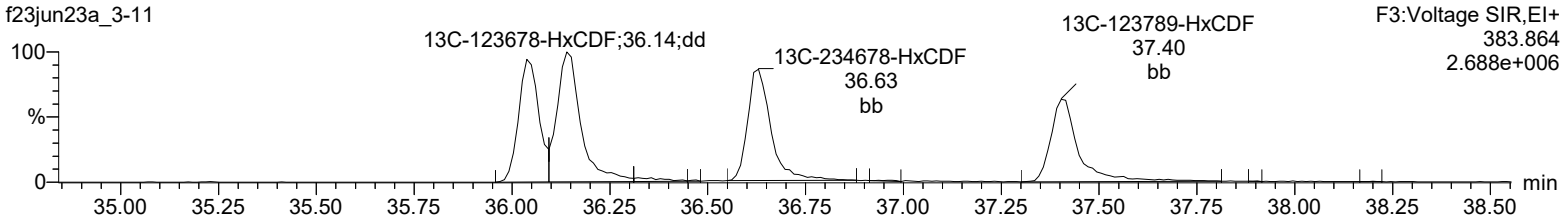
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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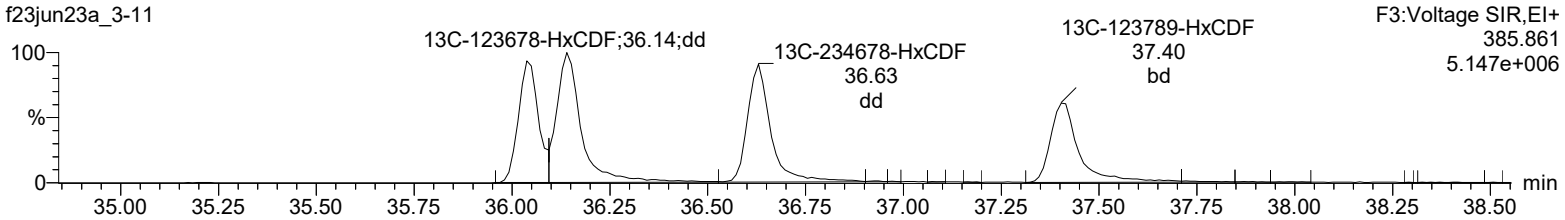
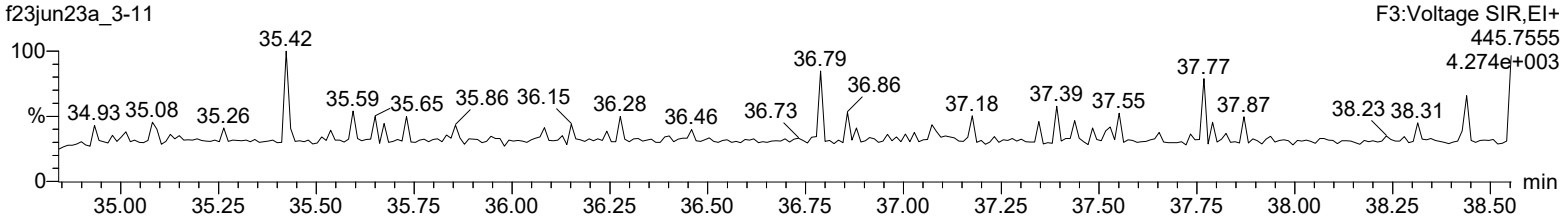
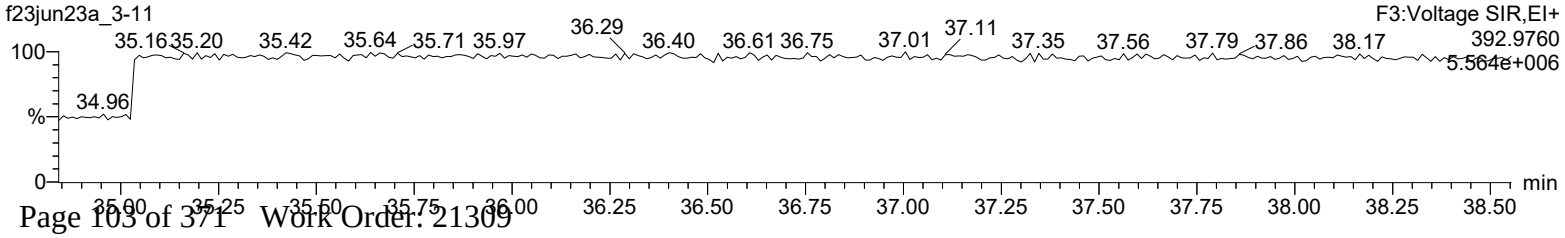


OcDPE



Lock Mass F3



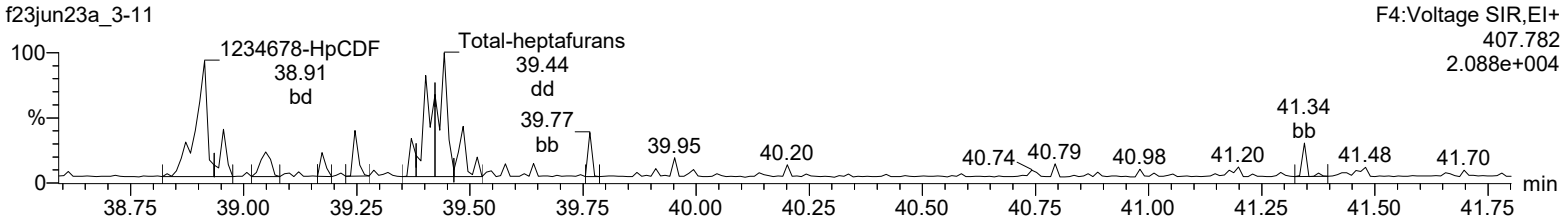
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

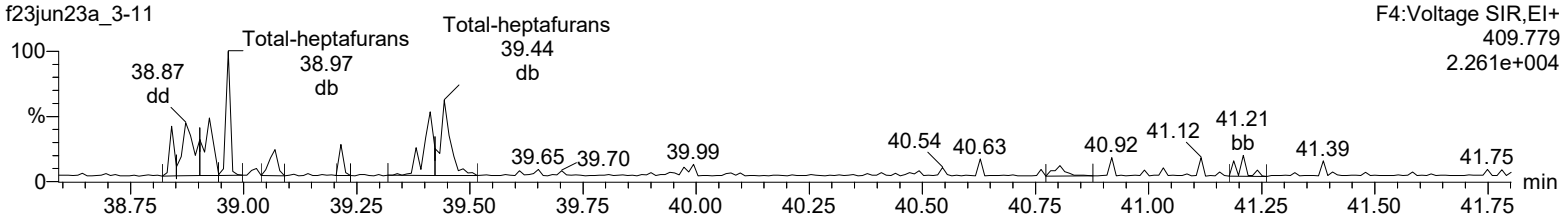
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

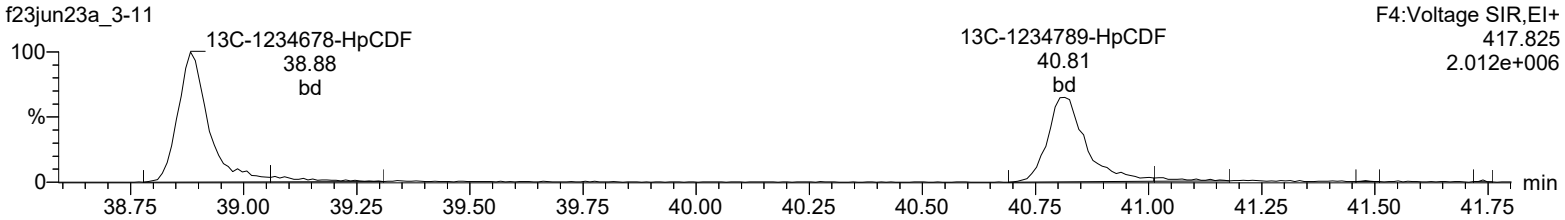
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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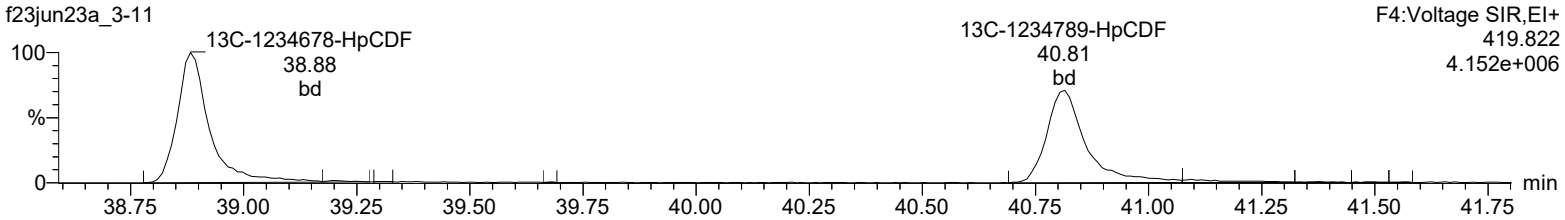
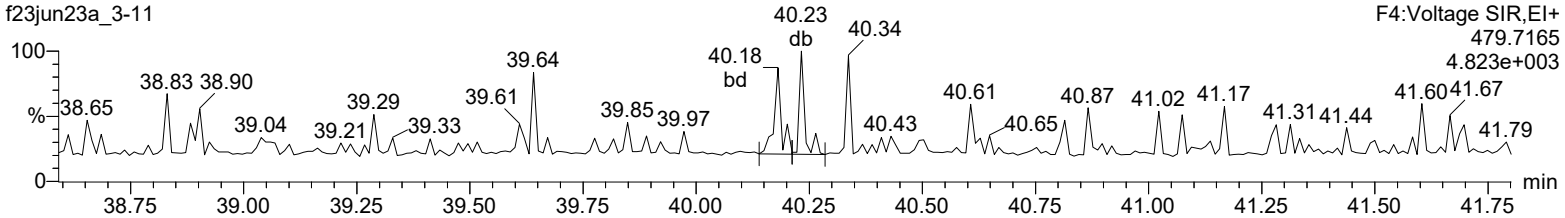
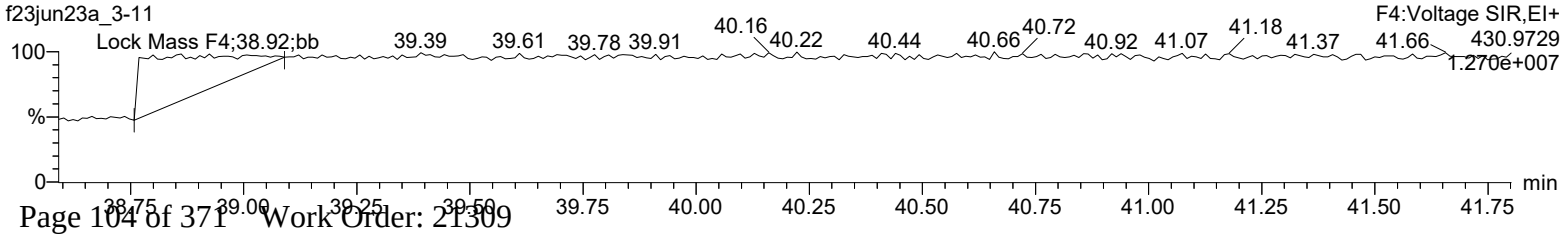


NoDPE



Lock Mass F4



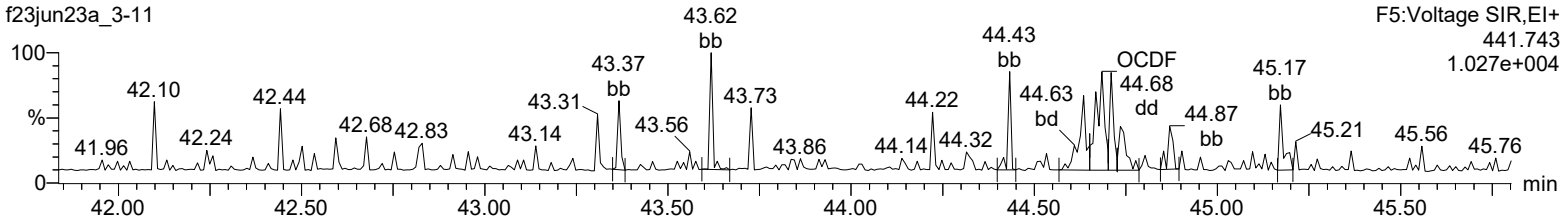
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

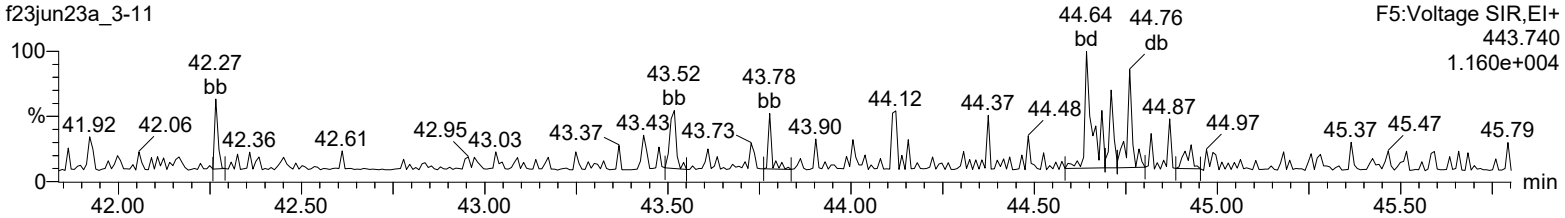
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-11, Date: 24-Jun-2023, Time: 16:56:51, ID: 21309003-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

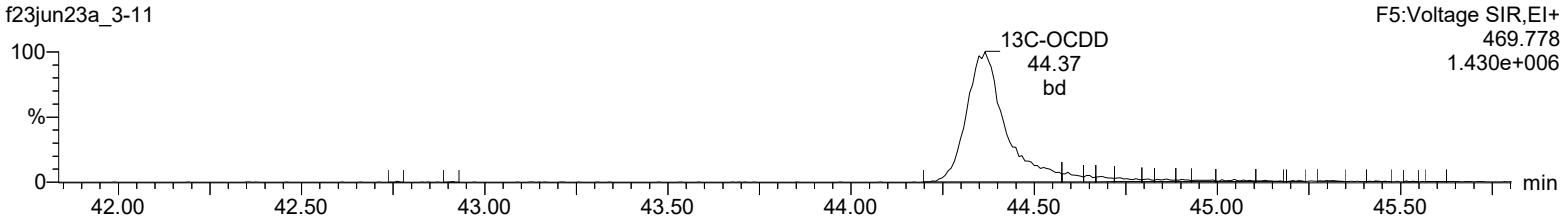
OCDF



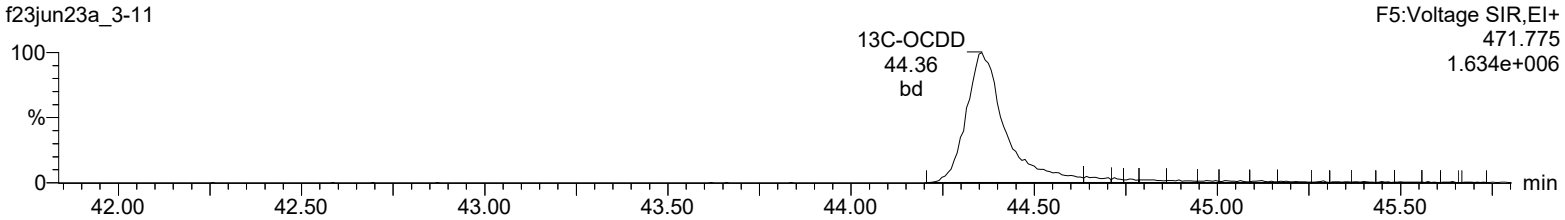
OCDF



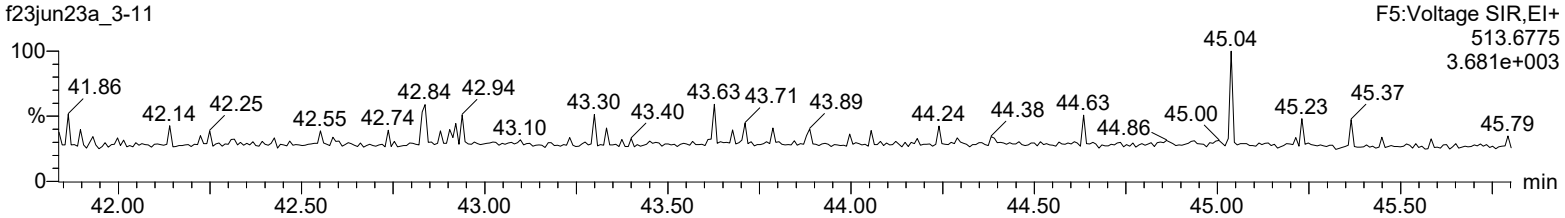
13C-OCDD



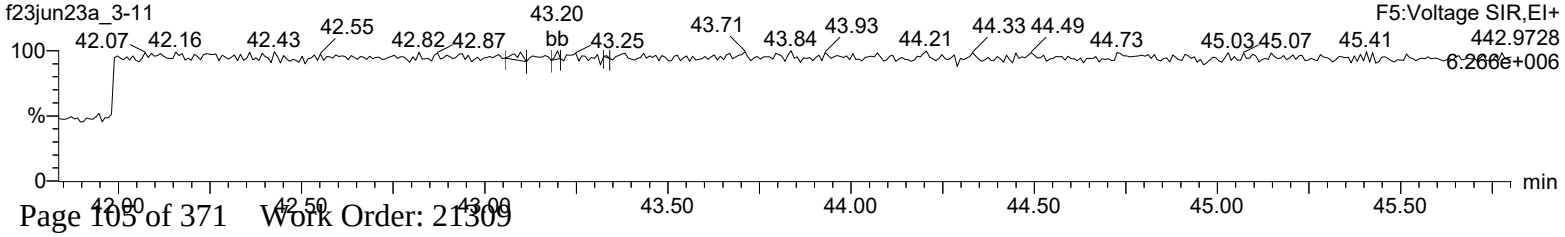
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309004**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR428-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 17:45**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-12**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**846.6 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.52	pg/L	3.52	5.91
40321-76-4	1,2,3,7,8-PeCDD	U	1.78	pg/L	1.78	29.5
39227-28-6	1,2,3,4,7,8-HxCDD	U	4.25	pg/L	4.25	59.1
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.97	pg/L	3.97	59.1
19408-74-3	1,2,3,7,8,9-HxCDD	U	4.11	pg/L	4.11	59.1
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	22.1	pg/L	9.26	59.1
3268-87-9	1,2,3,4,6,7,8,9-OCDD		127	pg/L	18.6	118
51207-31-9	2,3,7,8-TCDF	U	3.00	pg/L	3.00	11.8
57117-41-6	1,2,3,7,8-PeCDF	U	1.95	pg/L	1.95	59.1
57117-31-4	2,3,4,7,8-PeCDF	U	1.80	pg/L	1.80	59.1
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.24	pg/L	1.24	59.1
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.18	pg/L	1.18	59.1
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.26	pg/L	1.26	59.1
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.93	pg/L	1.93	59.1
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	2.48	pg/L	2.17	59.1
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.12	pg/L	3.12	59.1
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	8.10	pg/L	8.10	118
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.52	pg/L	3.52	11.8
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.78	pg/L	1.78	59.1
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	3.97	pg/L	3.97	59.1
TCDF	Total Tetrachlorodibenzofuran	U	3.00	pg/L	3.00	11.8
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	46.8	pg/L	9.26	59.1
30402-15-4	Total Pentachlorodibenzofuran	U	0.834	pg/L	0.834	59.1
55684-94-1	Total Hexachlorodibenzofuran	JK	1.42	pg/L	1.18	59.1
38998-75-3	Total Heptachlorodibenzofuran	JK	6.85	pg/L	2.17	59.1
TEQ	TEQ WHO2005 ND=0		0.284	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		4.30	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1430	2360	pg/L	60.6	(25%-164%)
13C-1,2,3,7,8-PeCDD		1560	2360	pg/L	66.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1460	2360	pg/L	61.8	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1590	2360	pg/L	67.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1470	2360	pg/L	62.3	(23%-140%)
13C-OCDD		2620	4720	pg/L	55.4	(17%-157%)
13C-2,3,7,8-TCDF		1470	2360	pg/L	62.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		1420	2360	pg/L	59.9	(24%-185%)
13C-2,3,4,7,8-PeCDF		1550	2360	pg/L	65.5	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1490	2360	pg/L	62.9	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1550	2360	pg/L	65.8	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1580	2360	pg/L	66.7	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1470	2360	pg/L	62.2	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309004**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR428-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 17:45**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-12**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**846.6 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1450	2360	pg/L	61.3	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1490	2360	pg/L	63.2	(26%-138%)
37Cl-2,3,7,8-TCDD		175	236	pg/L	74.2	(35%-197%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:52 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.149		2711			1148			
2	12378-PeCDD							NO		0.0753		1308			679			
3	123478-HxCDD	5.09e1	5.05e1	1.01e2	36.74	0.999	1.01	YES	0.036	0.180	2.79e3	1632	1.7	1.24e3	1820	0.7	bb	bb
4	123678-HxCDD							NO		0.168		1632			1820			
5	123789-HxCDD							NO		0.174		1632			1820			
6	1234678-HpCDD	1.75e3	1.14e3	2.90e3	40.16	1.000	1.54	YES	0.936	0.392	2.37e4	3096	7.6	1.63e4	2480	6.6	MM	MM
7	OCDD	5.04e3	5.83e3	1.09e4	44.37	1.000	0.87	NO	5.378	0.787	6.64e4	2960	22.4	6.30e4	2345	26.9	bd	MM
8	2378-TCDF							NO		0.127		1364			2994			
9	12378-PeCDF	8.97e1	1.30e2	2.19e2	33.34	1.000	0.69	YES	0.028	0.0826	1.66e3	1872	0.9	7.11e3	3195	2.2	bb	bb
10	23478-PeCDF	6.01e1	6.96e1	1.30e2	33.99	1.001	0.86	YES	0.015	0.0764	5.82e3	1872	3.1	2.81e3	3195	0.9	bb	dd
11	123478-HxCDF							NO		0.0525		1076			988			
12	123678-HxCDF							NO		0.0498		1076			988			
13	234678-HxCDF							NO		0.0532		1076			988			
14	123789-HxCDF							NO		0.0816		1076			988			
15	1234678-HpCDF	4.33e2	2.60e2	6.93e2	38.91	1.001	1.66	YES	0.105	0.0920	9.35e3	1405	6.7	6.17e3	1759	3.5	MM	MM
16	1234789-HpCDF							NO		0.132		1405			1759			
17	OCDF	3.07e2	4.19e2	7.26e2	44.68	1.007	0.73	YES	0.227	0.343	6.59e3	1425	4.6	9.68e3	2237	4.3	MM	MM
18	13C-2378-TCDD	1.83e5	2.29e5	4.12e5	31.28	1.017	0.80	NO	60.639	0.307	2.60e6	6045	430.9	3.42e6	4406	777.3	bb	bb
19	13C-12378-PeCDD	2.01e5	1.20e5	3.21e5	34.15	1.110	1.68	NO	66.172	0.340	3.55e6	4223	840.2	2.28e6	4060	562.3	bd	bd
20	13C-123478-HxCDD	1.49e5	1.15e5	2.64e5	36.77	0.991	1.30	NO	61.770	0.801	2.53e6	10451	241.8	1.88e6	6668	281.9	bd	bd
21	13C-123678-HxCDD	1.97e5	1.52e5	3.48e5	36.85	0.994	1.30	NO	67.184	0.661	2.72e6	10451	260.2	2.06e6	6668	308.9	dd	dd
22	13C-1234678-HpCDD	1.34e5	1.18e5	2.52e5	40.14	1.082	1.14	NO	62.299	0.660	1.54e6	7402	208.4	1.39e6	5917	234.4	bd	bd
23	13C-OCDD	1.71e5	1.94e5	3.65e5	44.36	1.196	0.88	NO	110.832	0.769	1.42e6	5275	269.9	1.62e6	7387	219.3	bb	bd
24	13C-2378-TCDF	2.88e5	3.57e5	6.45e5	30.58	0.994	0.81	NO	62.287	0.144	2.83e6	3248	870.4	3.67e6	4236	867.1	bb	bd
25	13C-12378-PeCDF	3.85e5	2.30e5	6.15e5	33.35	1.084	1.67	NO	59.911	0.503	7.53e6	16183	465.1	4.50e6	9720	463.3	bd	bd
26	13C-23478-PeCDF	4.01e5	2.33e5	6.34e5	33.97	1.104	1.72	NO	65.537	0.534	7.52e6	16183	464.7	4.41e6	9720	453.8	dd	bb
27	13C-123478-HxCDF	1.39e5	2.71e5	4.10e5	36.05	0.972	0.51	NO	62.861	1.18	2.35e6	9113	258.0	4.73e6	29176	162.3	bd	bd
28	13C-123678-HxCDF	1.84e5	3.47e5	5.31e5	36.15	0.975	0.53	NO	65.777	0.950	2.60e6	9113	285.1	4.91e6	29176	168.2	db	dd
29	13C-234678-HxCDF	1.58e5	2.93e5	4.51e5	36.63	0.988	0.54	NO	66.712	1.13	2.39e6	9113	261.8	4.44e6	29176	152.2	bd	bb
30	13C-123789-HxCDF	1.30e5	2.44e5	3.74e5	37.40	1.009	0.53	NO	62.185	1.28	1.69e6	9113	185.3	3.20e6	29176	109.6	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:52 PM Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.50e5	3.26e5	4.75e5	38.88	1.048	0.46	NO	61.262	0.740	1.95e6	12589	155.3	4.14e6	16108	256.9	bd	bb
32	13C-1234789-HpCDF	1.23e5	2.60e5	3.82e5	40.81	1.101	0.47	NO	63.200	0.950	1.41e6	12589	111.7	2.82e6	16108	175.2	bb	bd
33	13C-1234-TCDD	2.66e5	3.31e5	5.97e5	30.77	0.000	0.80	NO	100.000	0.349	3.33e6	6045	551.0	4.06e6	4406	920.8	bb	bb
34	13C-123789-HxCDD	2.78e5	2.27e5	5.05e5	37.08	0.000	1.22	NO	100.000	0.679	3.47e6	10451	331.7	2.83e6	6668	424.3	dd	dd
35	37Cl-2378-TCDD	4.98e4		4.98e4	31.30	1.017			7.418	0.0547	6.80e5	1842	369.1				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-12, ID:21309004-1, Description: 52698

M	M2
6 1234678-HpCDD 40.16 - AB	6 1234678-HpCDD 40.16 - AB
	7 OCDD 44.37 - AB
15 1234678-HpCDF 38.91 - AB	15 1234678-HpCDF 38.91 - AB
17 OCDF 44.68 - AB	17 OCDF 44.68 - AB

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:52 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	1.10e2	1.20e2	2.30e2	26.28	0.92	YES	0.051	0.149	4.10e3	2711	1.5	2.87e3	1148	2.5	bd	bb
2	Total-tetradioxins	1.48e2	1.28e2	2.75e2	30.62	1.16	YES	0.061	0.149	3.59e3	2711	1.3	3.65e3	1148	3.2	bb	bb
3	Total-tetradioxins	1.61e2	9.73e1	2.58e2	31.41	1.65	YES	0.057	0.149	3.88e3	2711	1.4	3.71e3	1148	3.2	db	bd
4	Total-tetradioxins	5.64e1	5.60e1	1.12e2	31.57	1.01	YES	0.025	0.149	2.16e3	2711	0.8	2.20e3	1148	1.9	db	db

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	9.84e1	1.71e2	2.69e2	35.53	0.58	YES	0.082	0.173	3.67e3	1632	2.2	2.63e3	1820	1.4	bb	bb
2	Total-hexadioxins	5.46e1	2.03e2	2.58e2	36.03	0.27	YES	0.079	0.173	2.15e3	1632	1.3	8.57e3	1820	4.7	bb	bb
3	Total-hexadioxins	5.29e2	2.26e2	7.55e2	36.13	2.34	YES	0.231	0.173	9.98e3	1632	6.1	2.81e3	1820	1.5	MM	MM
4	123478-HxCDD	5.09e1	5.05e1	1.01e2	36.74	1.01	YES	0.036	0.180	2.79e3	1632	1.7	1.24e3	1820	0.7	bb	bb

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	1.51e2	1.44e2	2.96e2	38.87	1.05	NO	0.096	0.392	9.17e3	3096	3.0	4.97e3	2480	2.0	bb	bb
2	Total-heptadioxins	1.62e3	1.62e3	3.23e3	39.22	1.00	NO	1.046	0.392	2.57e4	3096	8.3	2.48e4	2480	10.0	MM	bb
3	1234678-HpCDD	1.75e3	1.14e3	2.90e3	40.16	1.54	YES	0.936	0.392	2.37e4	3096	7.6	1.63e4	2480	6.6	MM	MM

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:52 PM Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	1.35e2	8.29e1	2.18e2	25.92	1.62	YES	0.025	0.127	5.89e3	1364	4.3	3.50e3	2994	1.2	bd	bb
2	Total-tetrafurans	8.92e1	1.13e2	2.02e2	26.02	0.79	NO	0.023	0.127	1.66e3	1364	1.2	5.21e3	2994	1.7	dd	bd
3	Total-tetrafurans	5.92e1	2.07e2	2.66e2	26.15	0.29	YES	0.031	0.127	9.17e2	1364	0.7	6.20e3	2994	2.1	dd	db
4	Total-tetrafurans	7.54e1	1.71e2	2.47e2	27.61	0.44	YES	0.028	0.127	4.23e3	1364	3.1	7.94e3	2994	2.7	bb	bd
5	Total-tetrafurans	7.97e1	1.22e2	2.02e2	28.36	0.65	YES	0.023	0.127	5.01e3	1364	3.7	4.07e3	2994	1.4	bb	bb
6	Total-tetrafurans	6.41e1	9.50e1	1.59e2	29.15	0.68	NO	0.018	0.127	2.06e3	1364	1.5	3.02e3	2994	1.0	db	bd
7	Total-tetrafurans	7.89e1	1.60e2	2.39e2	30.73	0.49	YES	0.027	0.127	4.72e3	1364	3.5	3.24e3	2994	1.1	bd	bd
8	Total-tetrafurans	7.14e1	8.66e1	1.58e2	30.80	0.82	NO	0.018	0.127	1.76e3	1364	1.3	2.94e3	2994	1.0	db	dd
9	Total-tetrafurans	8.72e1	1.31e2	2.19e2	30.94	0.66	NO	0.025	0.127	3.32e3	1364	2.4	3.46e3	2994	1.2	bd	dd
10	Total-tetrafurans	6.43e1	5.89e1	1.23e2	30.97	1.09	YES	0.014	0.127	3.79e3	1364	2.8	3.64e3	2994	1.2	db	dd
11	Total-tetrafurans	7.44e1	8.73e1	1.62e2	31.41	0.85	NO	0.019	0.127	4.96e3	1364	3.6	2.14e3	2994	0.7	bb	bb
12	Total-tetrafurans	5.19e1	1.17e2	1.69e2	31.95	0.44	YES	0.019	0.127	3.25e3	1364	2.4	3.03e3	2994	1.0	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	5.06e1	6.38e1	1.14e2	31.14	0.79	YES	0.014	0.0353	2.78e3	689	4.0	2.74e3	1561	1.8	bb	bb
2	Total-pentafurans (F1)	5.29e1	1.06e2	1.59e2	31.94	0.50	YES	0.019	0.0353	1.41e3	689	2.0	2.87e3	1561	1.8	bb	bb

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	5.24e1	8.53e1	1.38e2	32.65	0.62	YES	0.017	0.0794	1.97e3	1872	1.1	3.83e3	3195	1.2	bb	bd
2	Total-pentafurans	5.09e1	1.48e2	1.99e2	32.72	0.34	YES	0.024	0.0794	2.83e3	1872	1.5	6.89e3	3195	2.2	bb	db
3	Total-pentafurans	8.67e1	8.84e1	1.75e2	32.83	0.98	YES	0.021	0.0794	4.04e3	1872	2.2	3.93e3	3195	1.2	bb	bb
4	12378-PeCDF	8.97e1	1.30e2	2.19e2	33.34	0.69	YES	0.028	0.0826	1.66e3	1872	0.9	7.11e3	3195	2.2	bb	bb
5	Total-pentafurans	9.69e1	7.19e1	1.69e2	33.63	1.35	NO	0.020	0.0794	7.90e3	1872	4.2	4.66e3	3195	1.5	bb	bb
6	Total-pentafurans	8.73e1	8.41e1	1.71e2	33.78	1.04	YES	0.021	0.0794	4.74e3	1872	2.5	6.13e3	3195	1.9	bb	bb
7	Total-pentafurans	7.37e1	8.06e1	1.54e2	33.91	0.91	YES	0.019	0.0794	3.99e3	1872	2.1	3.87e3	3195	1.2	bb	dd
8	23478-PeCDF	6.01e1	6.96e1	1.30e2	33.99	0.86	YES	0.015	0.0764	5.82e3	1872	3.1	2.81e3	3195	0.9	bb	dd

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:39:52 PM Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	2.43e2	1.21e2	3.64e2	35.23	2.02	YES	0.060	0.0578	6.82e3	1076	6.3	2.69e3	988	2.7	db	bb
2	Total-hexafurans	1.37e2	7.29e1	2.10e2	35.67	1.88	YES	0.034	0.0578	6.64e3	1076	6.2	1.95e3	988	2.0	bb	bb

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDF	4.33e2	2.60e2	6.93e2	38.91	1.66	YES	0.105	0.0920	9.35e3	1405	6.7	6.17e3	1759	3.5	MM	MM
2	Total-heptafurans	4.96e2	5.93e2	1.09e3	39.44	0.84	YES	0.185	0.110	9.30e3	1405	6.6	1.14e4	1759	6.5	MM	MM

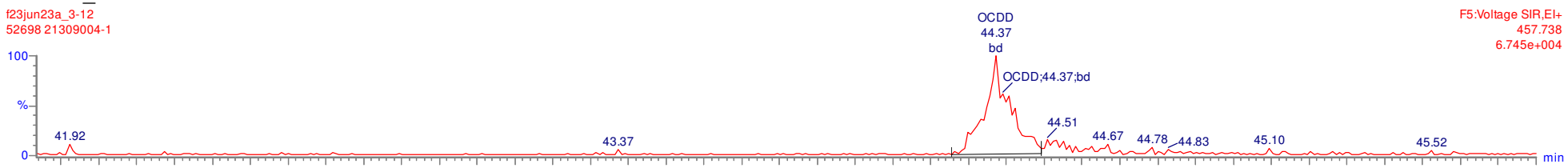
Reasons for Analyst Intervention

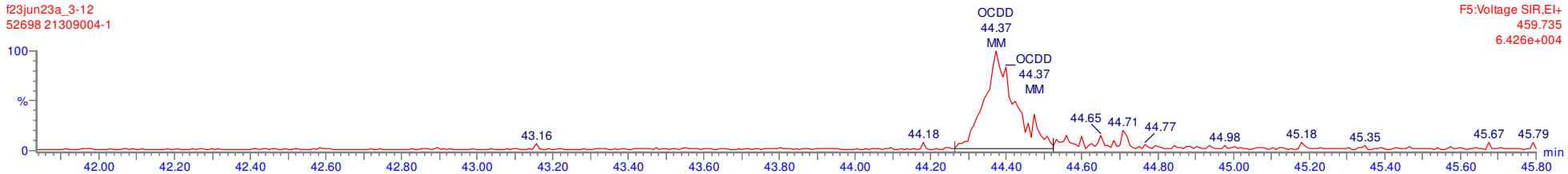
Name:f23jun23a_3-12, ID:21309004-1, Description: 52698

M	M2
3 Total-hexadioxins 36.13 - AB	3 Total-hexadioxins 36.13 - AB
2 Total-heptadioxins 39.22 - AB	
3 1234678-HpCDD 40.16 - AB	3 1234678-HpCDD 40.16 - AB
1 1234678-HpCDF 38.91 - AB	1 1234678-HpCDF 38.91 - AB
2 Total-heptafurans 39.44 - AB	2 Total-heptafurans 39.44 - AB

Reason Codes assigned by MW1 on 28-JUN-23

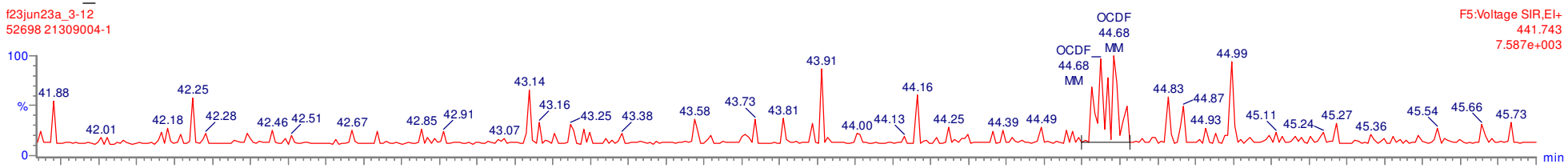
MANUAL INTEGRATION
METHOD 1613
HRP722_2

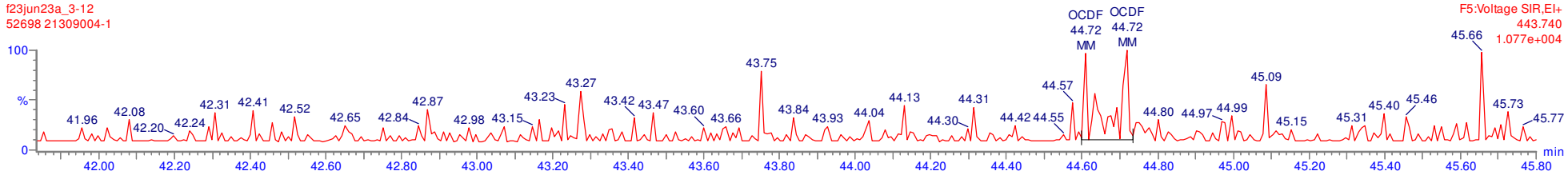




06/28/2023 06/29/2023

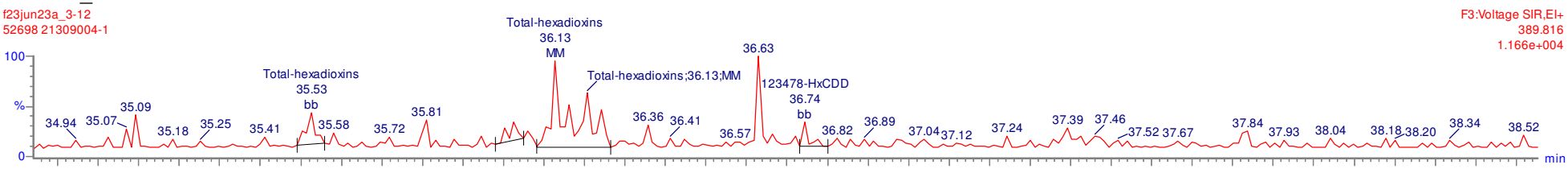
MANUAL INTEGRATION
METHOD 1613
HRP722_2

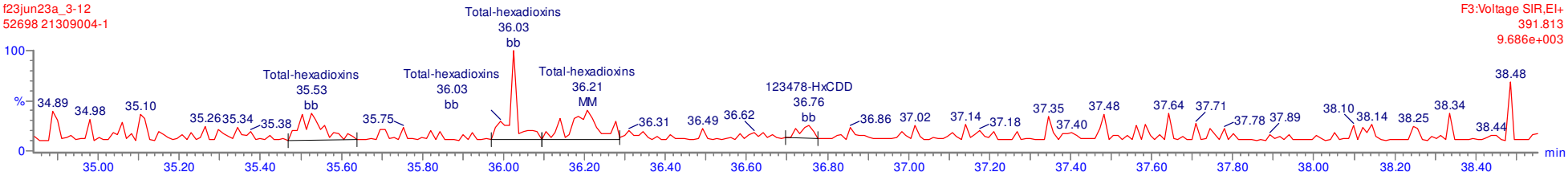




06/28/2023 06/29/2023

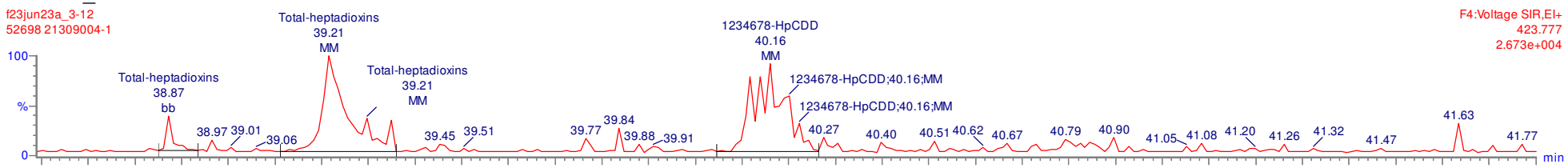
MANUAL INTEGRATION
METHOD 1613
HRP722_2

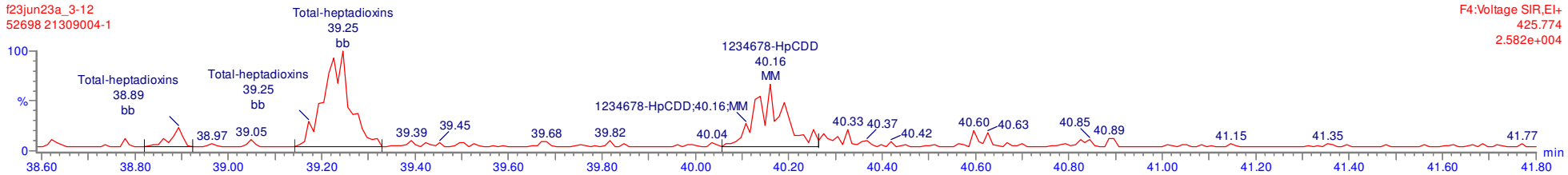




06/28/2023 06/29/2023

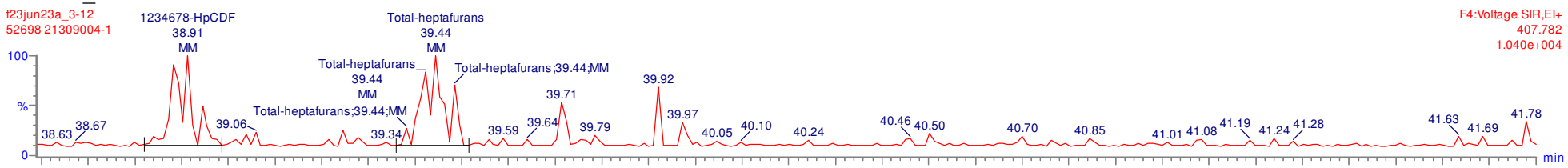
MANUAL INTEGRATION
METHOD 1613
HRP722_2

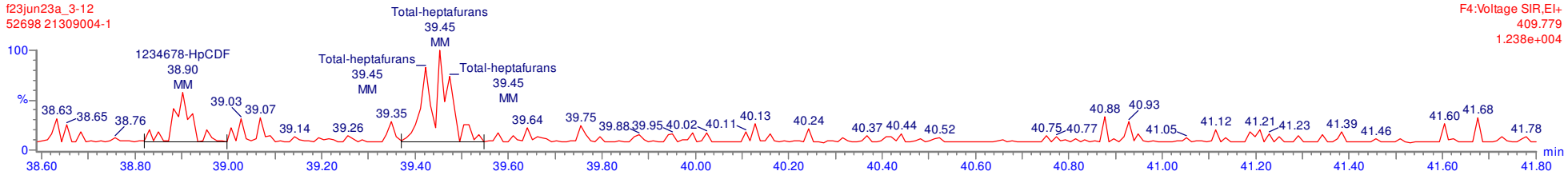




06/28/2023 06/29/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

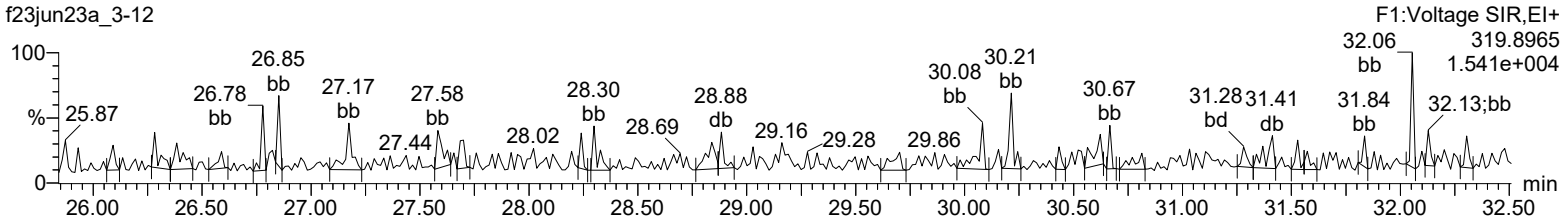
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

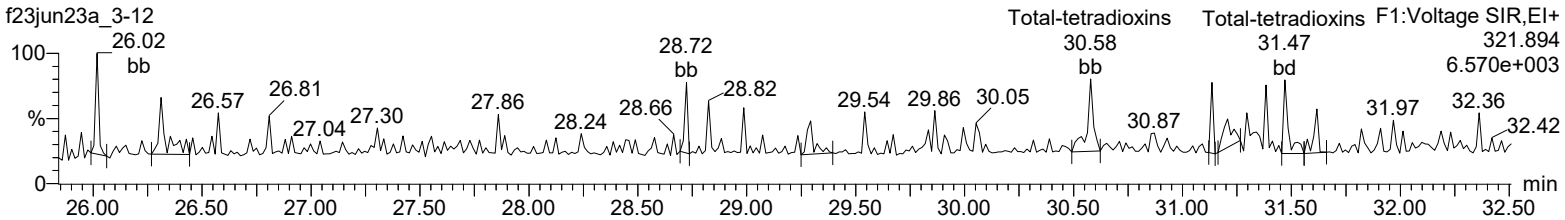
AMA 06/29/2023

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

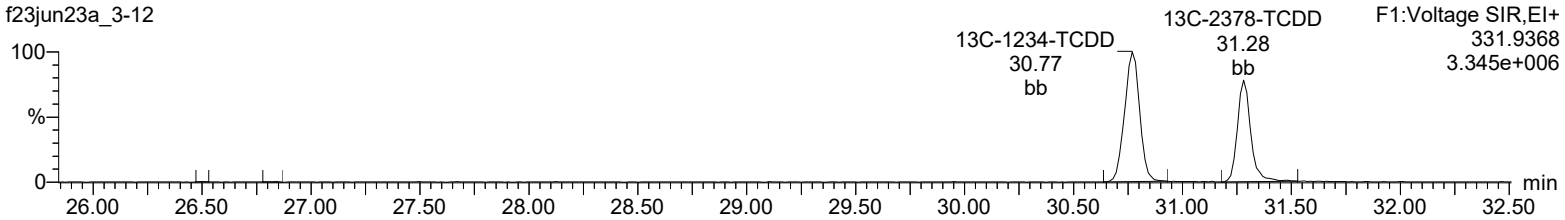
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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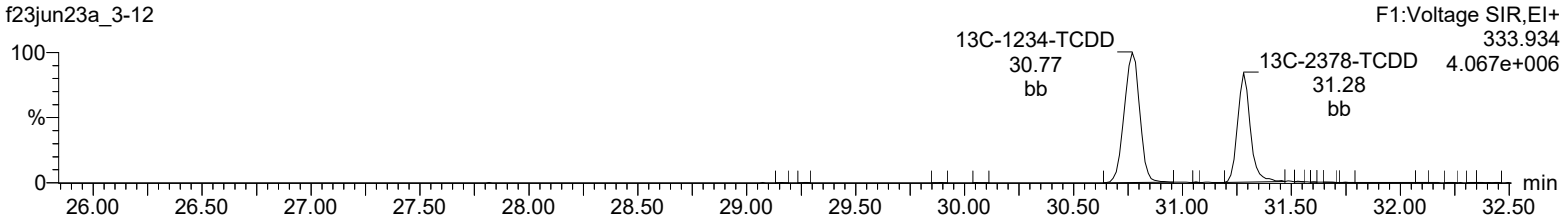

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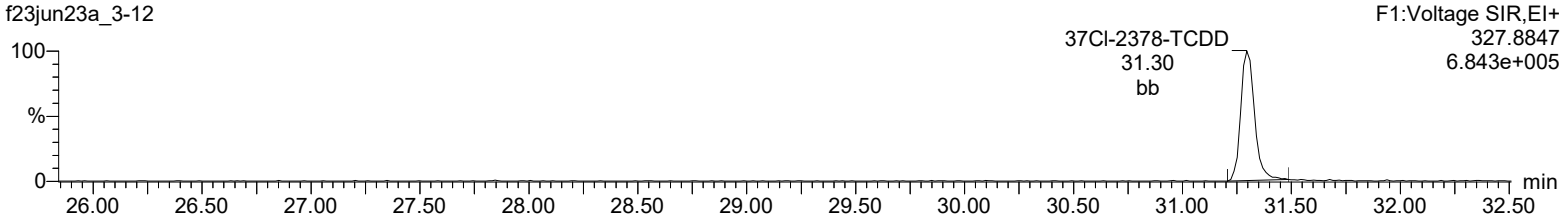
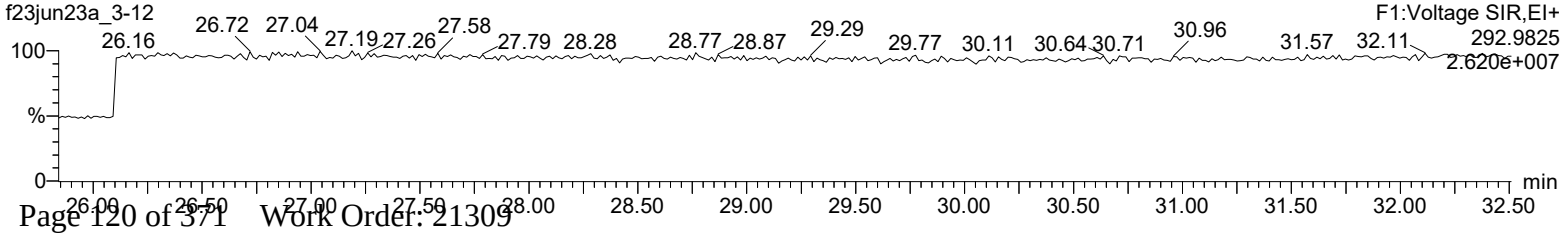


Lock Mass F1



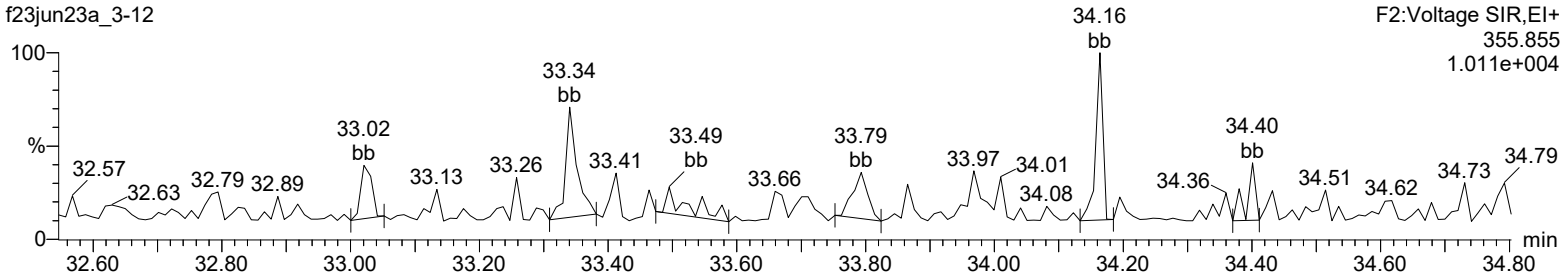
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

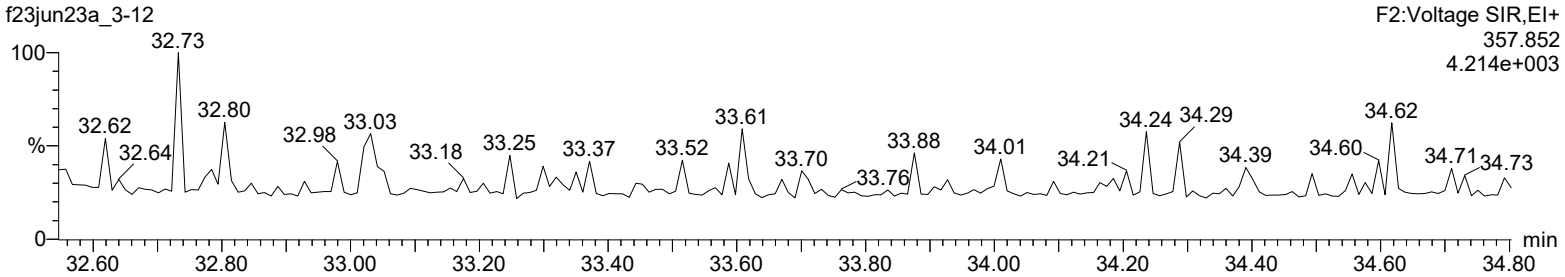
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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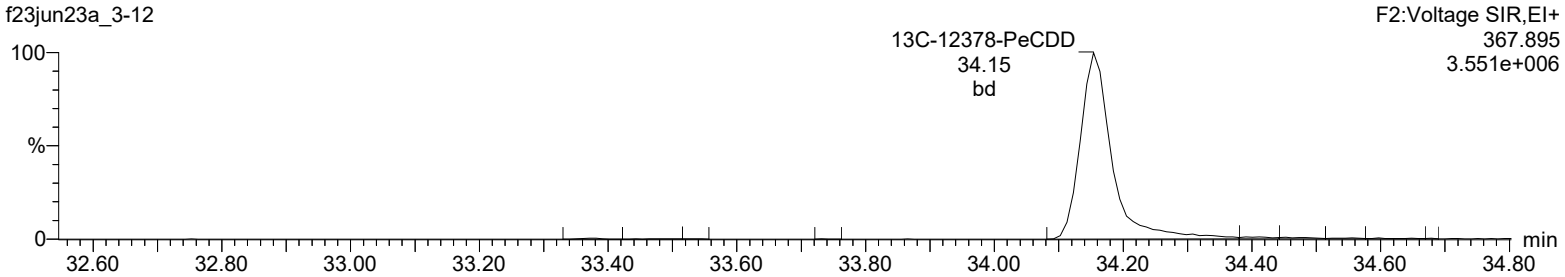

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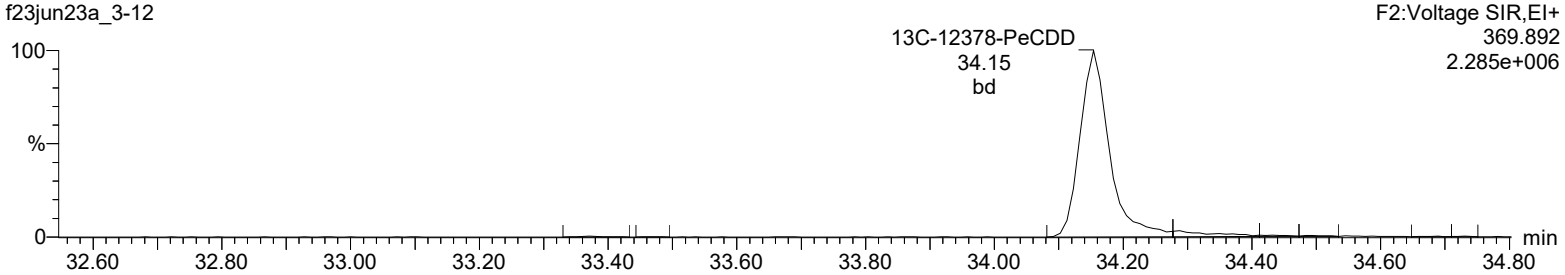
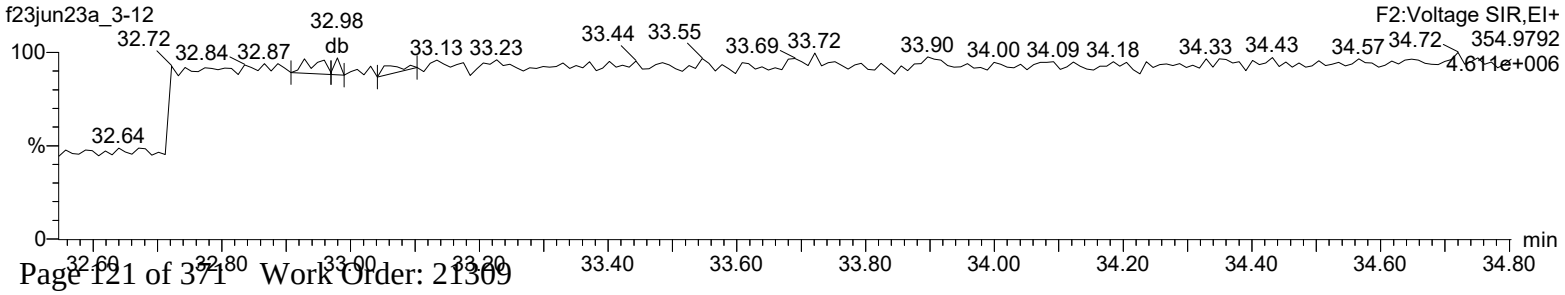


Lock Mass F2



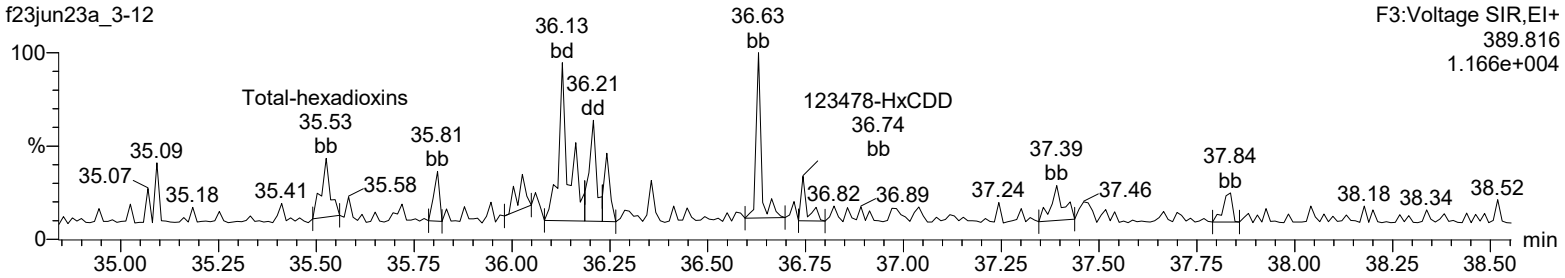
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

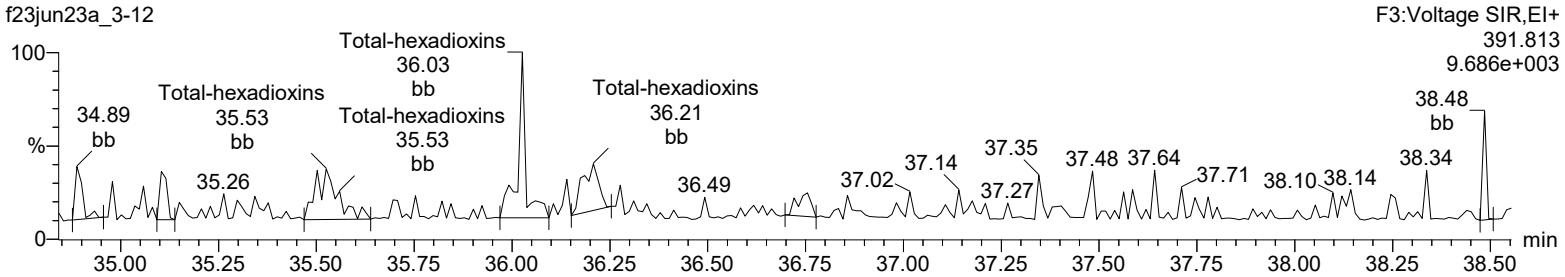
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

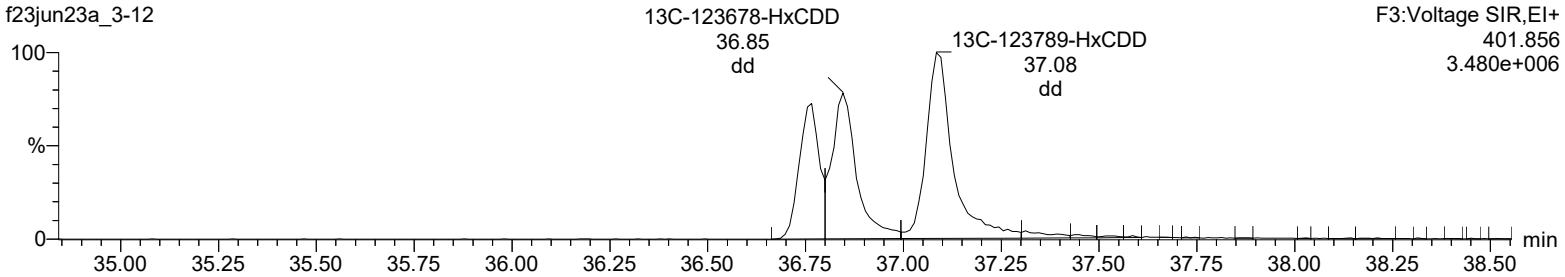
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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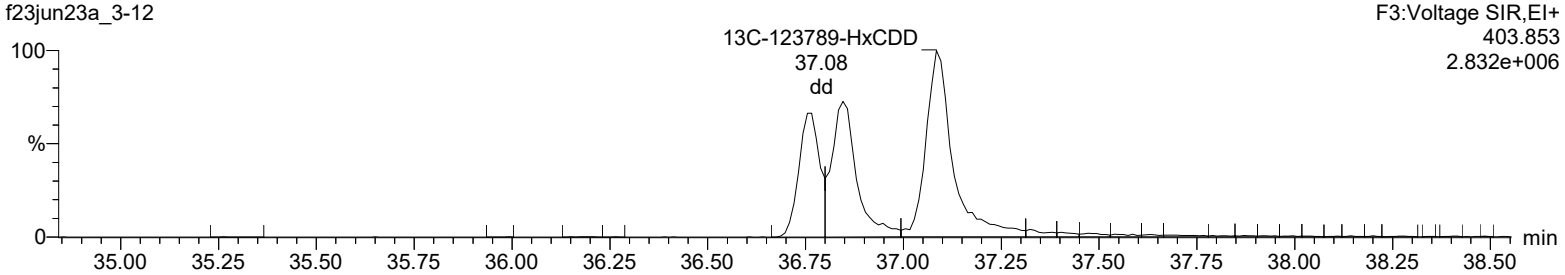
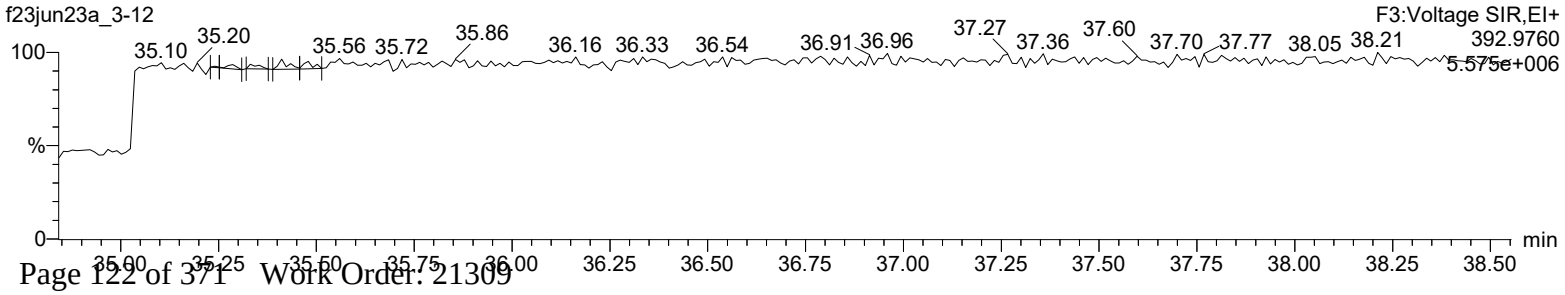


Lock Mass F3



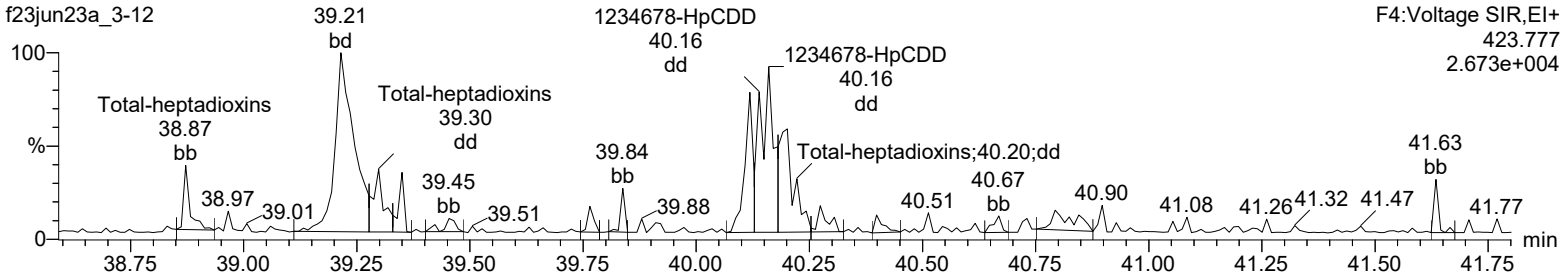
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

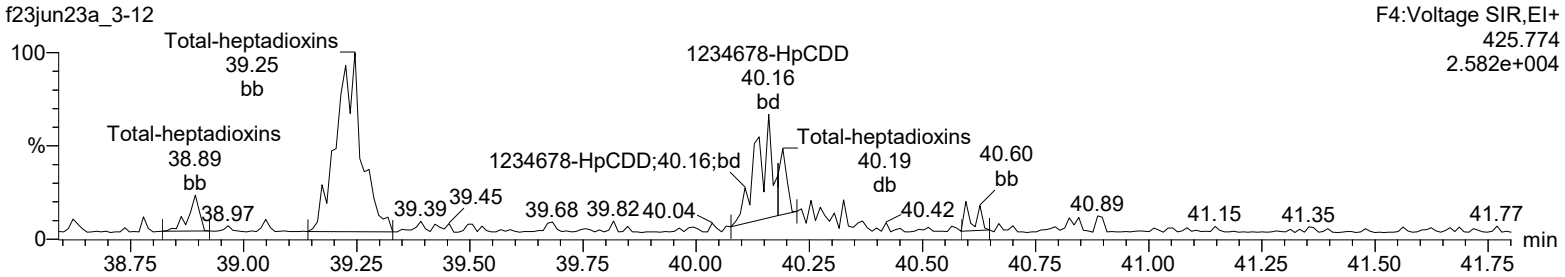
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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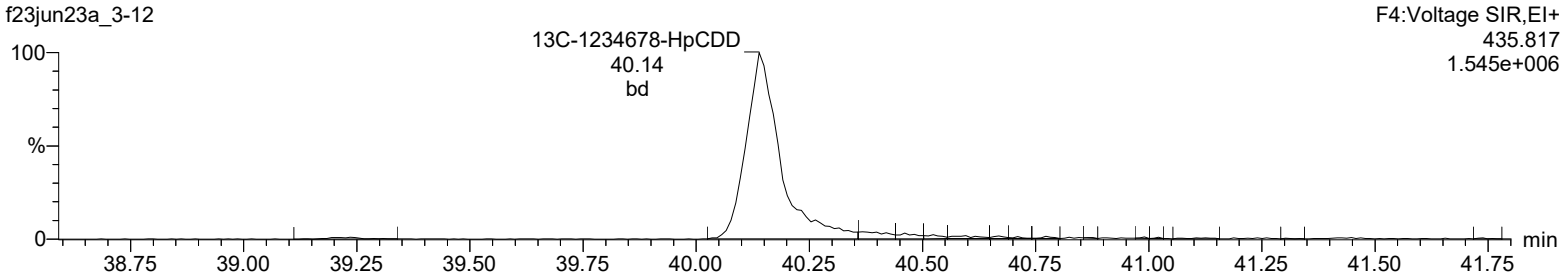

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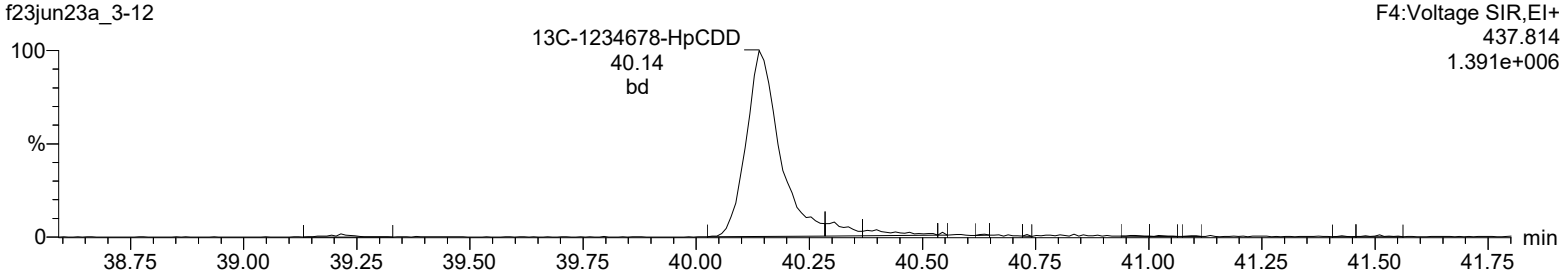

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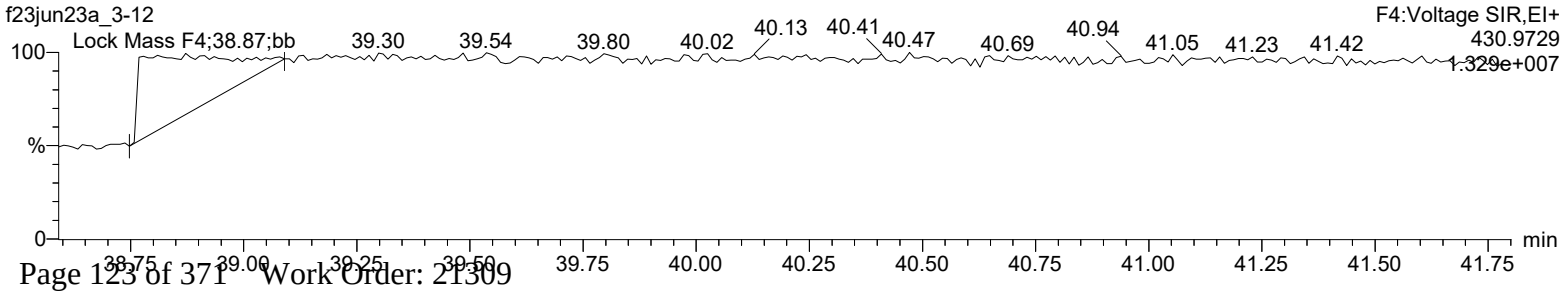


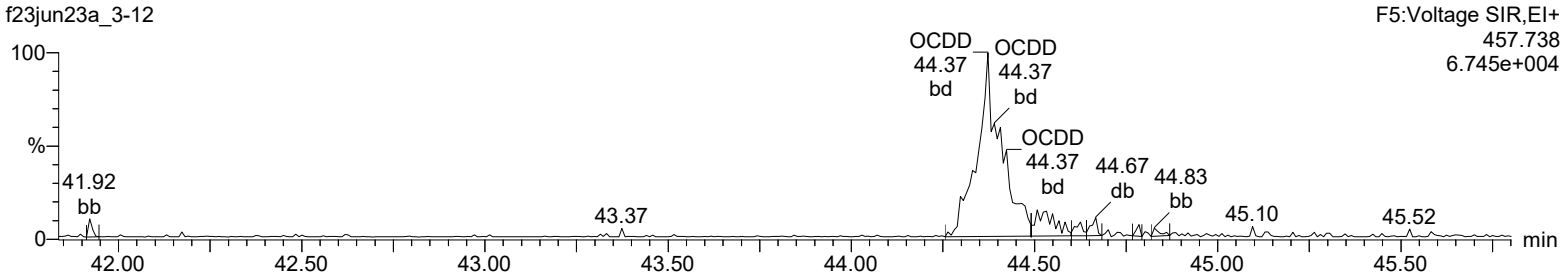
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

OCDD



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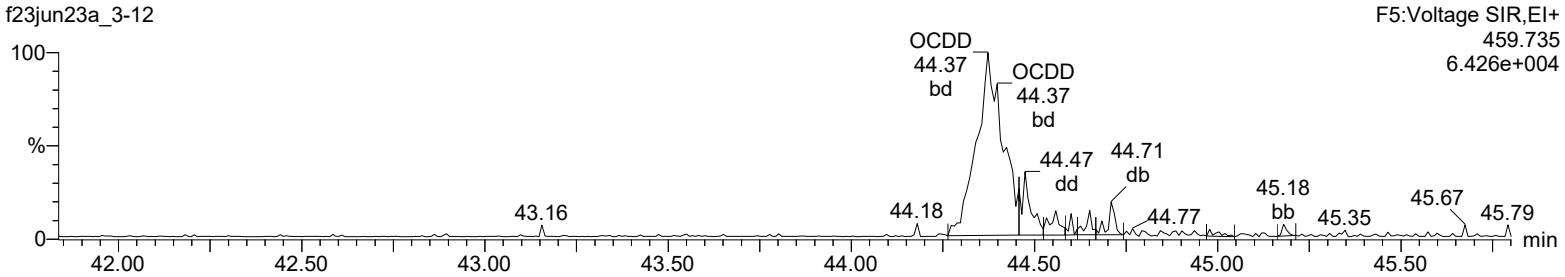
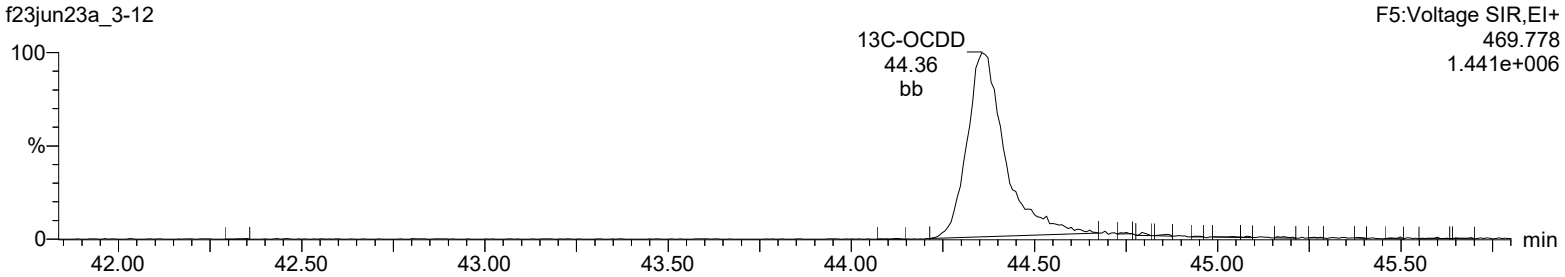


13C-OCDD



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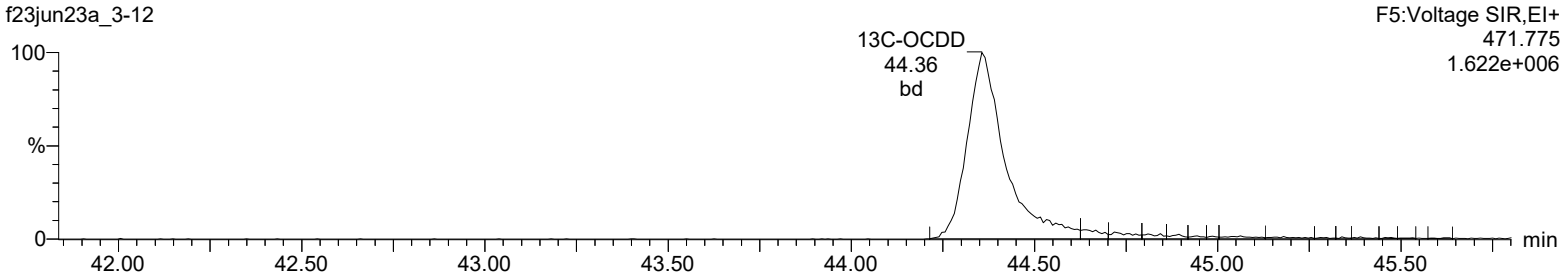
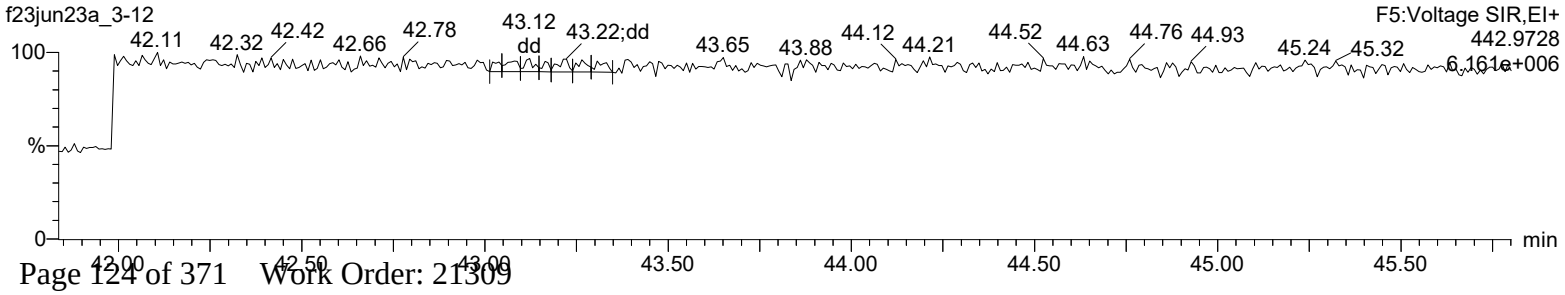


Lock Mass F5



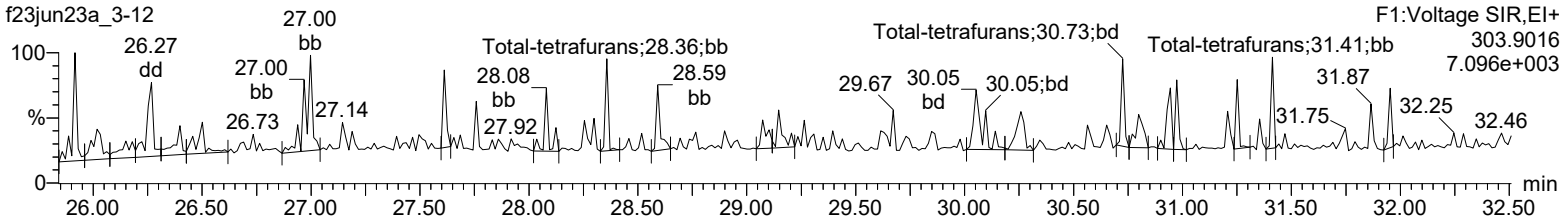
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

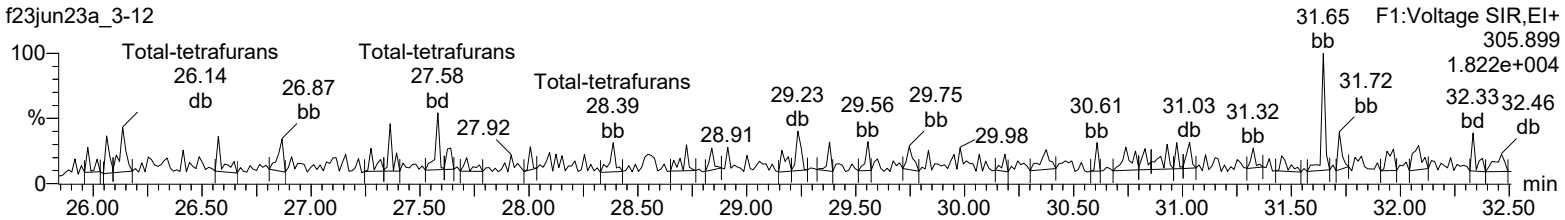
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

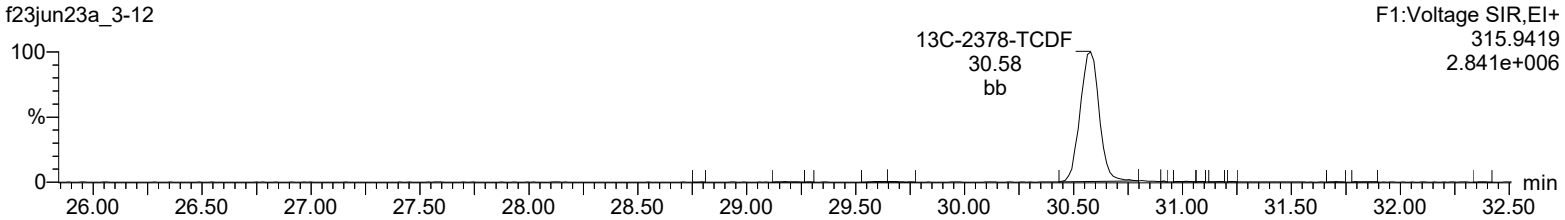
Total-tetrafurans



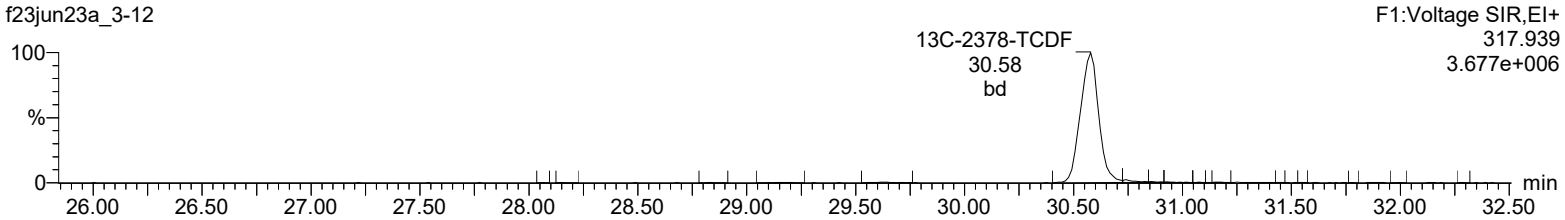
Total-tetrafurans



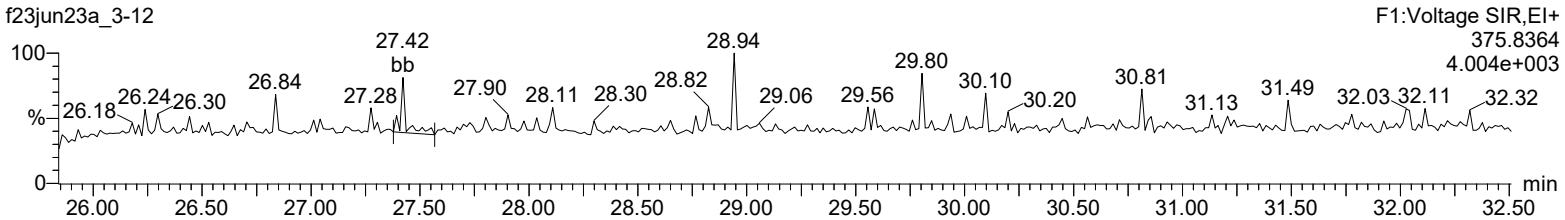
13C-2378-TCDF



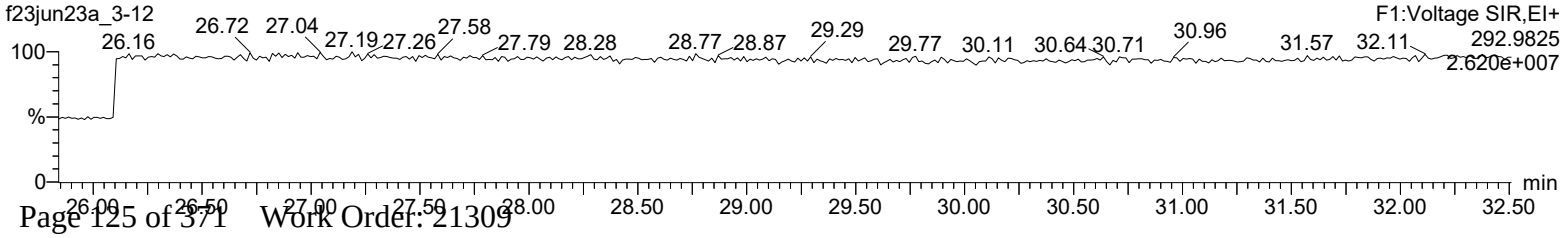
13C-2378-TCDF



HxDPE



Lock Mass F1



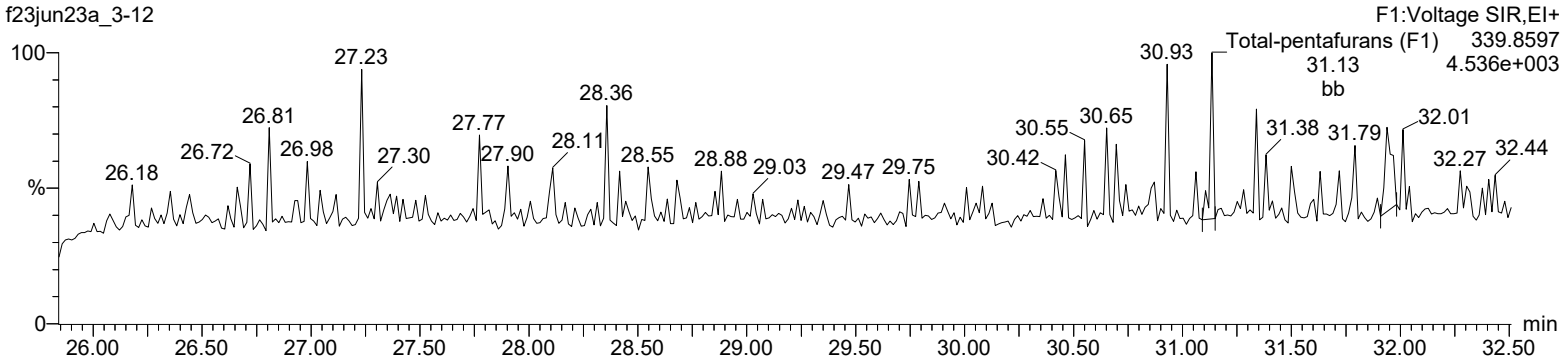
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

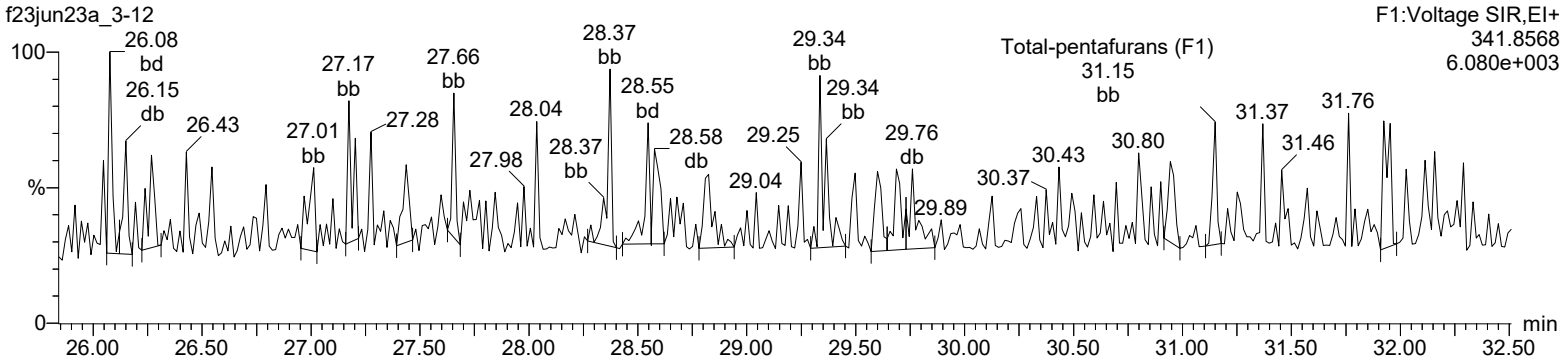
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

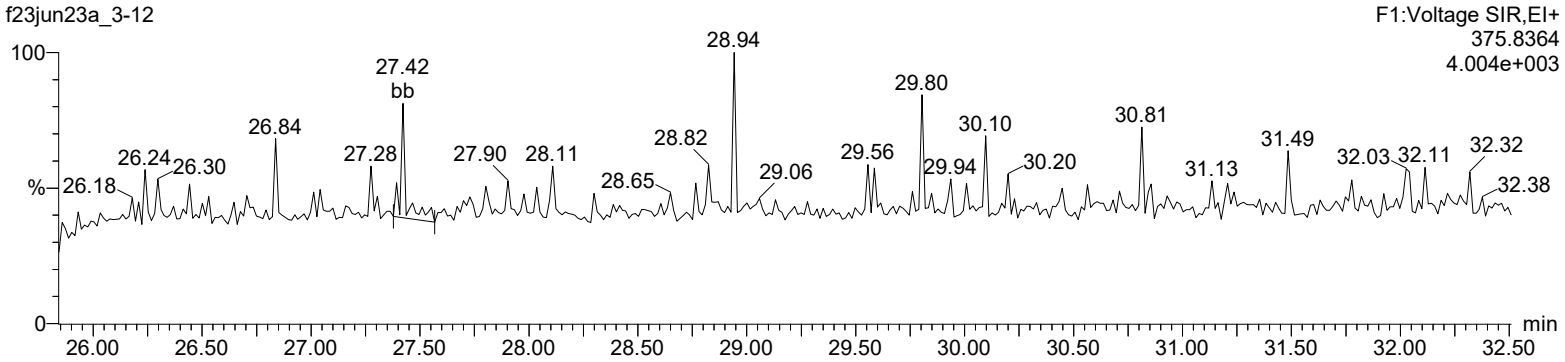
Total-pentafurans (F1)



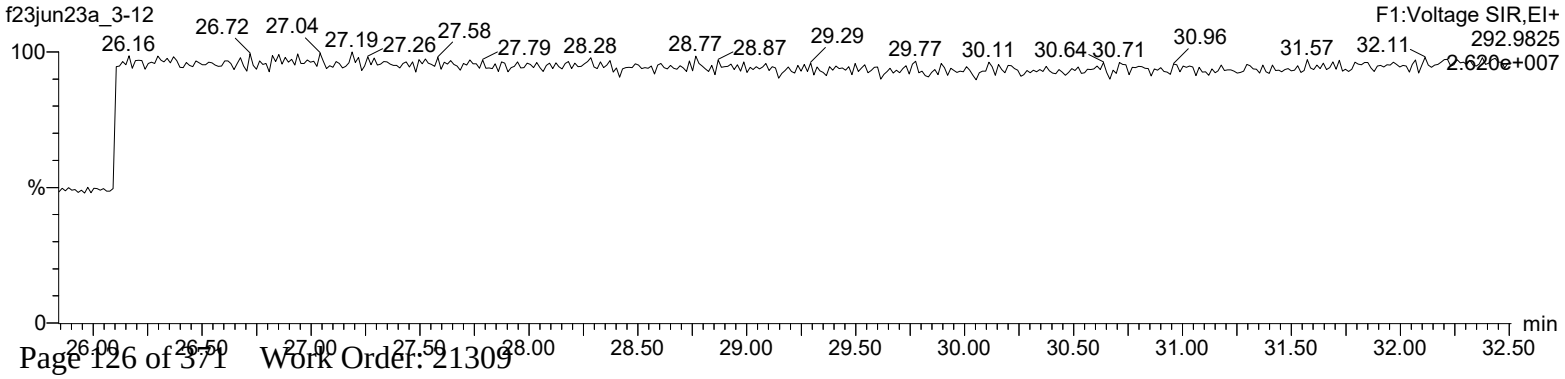
Total-pentafurans (F1)



HxDPE



Lock Mass F1



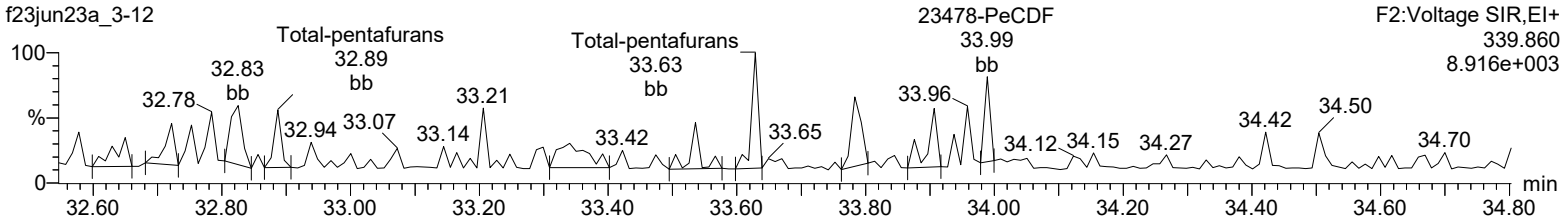
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

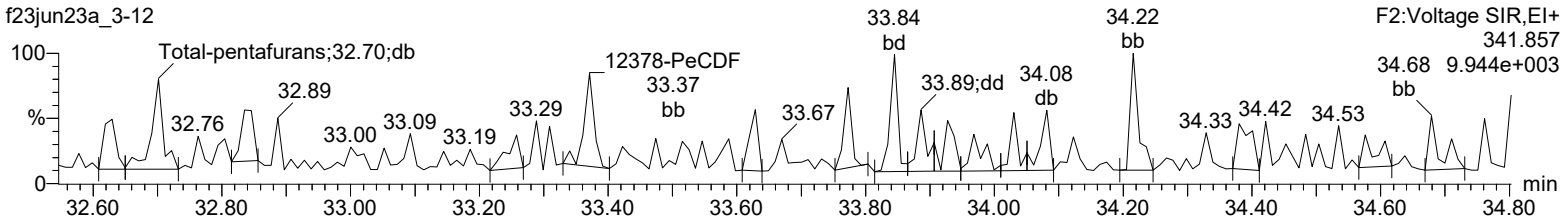
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

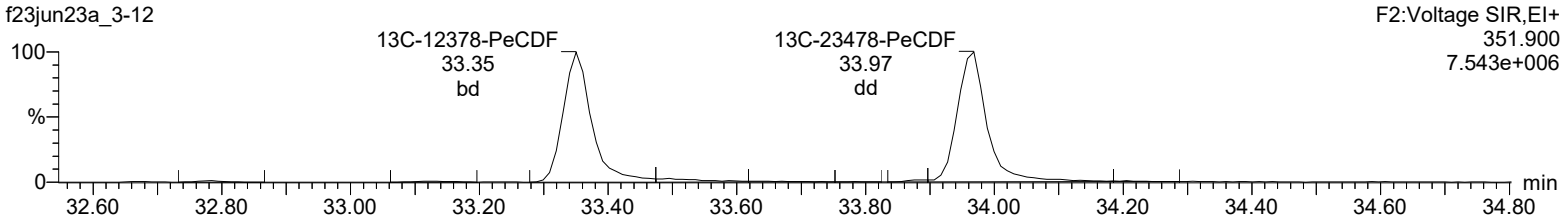
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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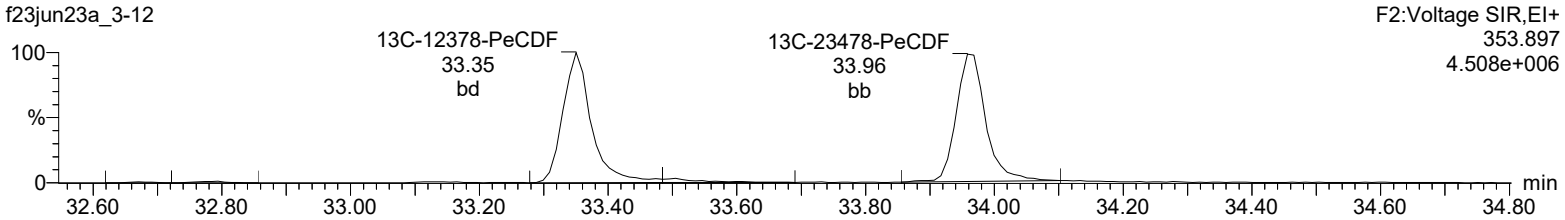
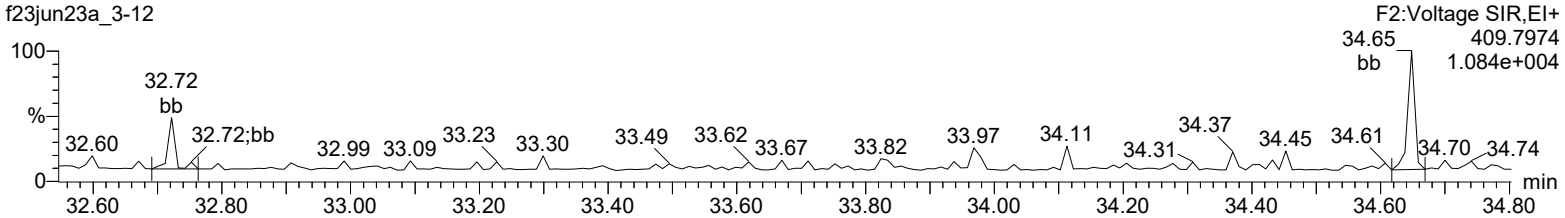
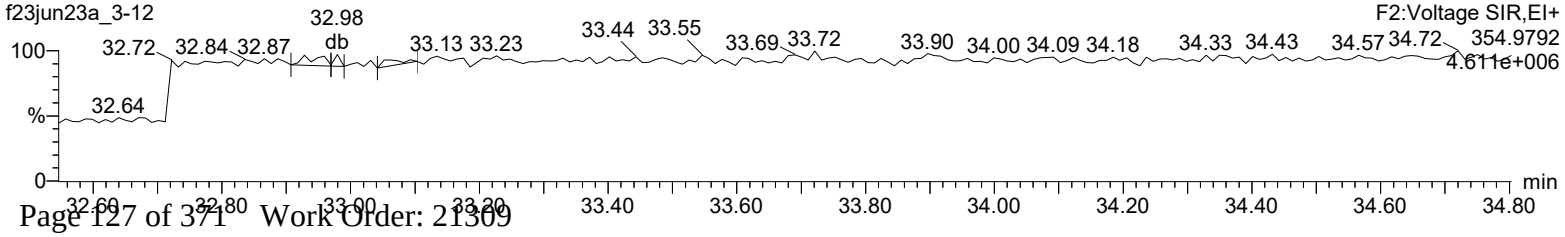


HpDPE



Lock Mass F2



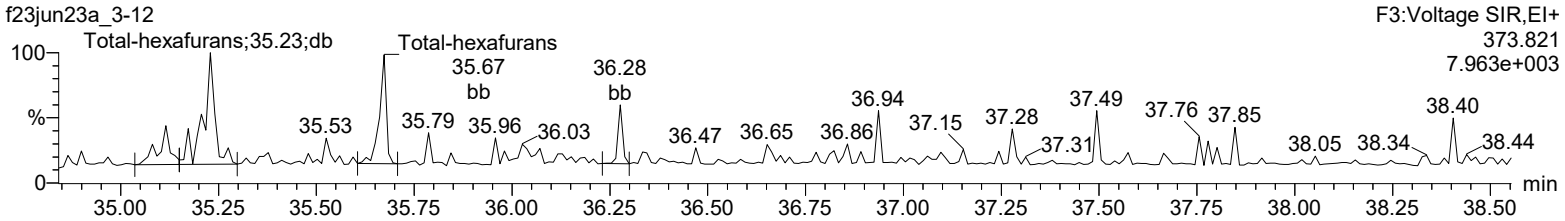
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

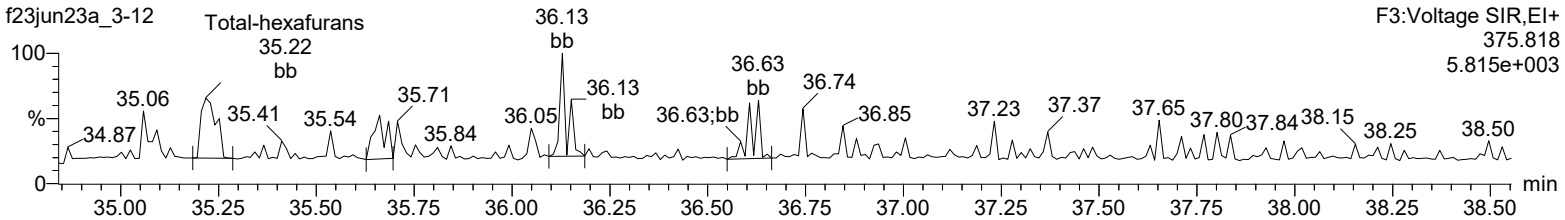
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

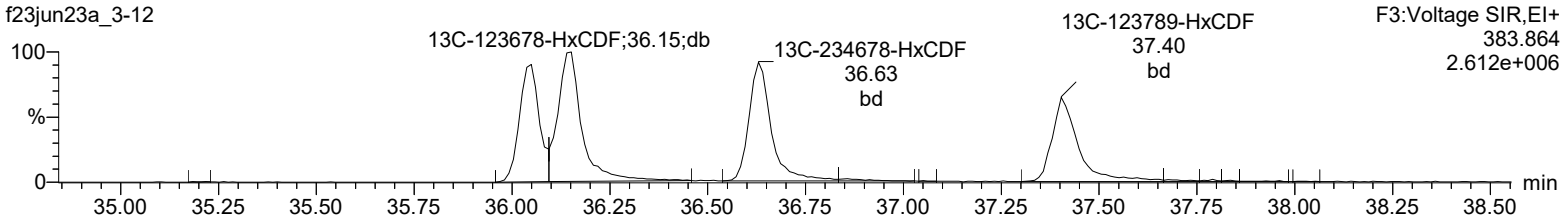
Total-hexafurans



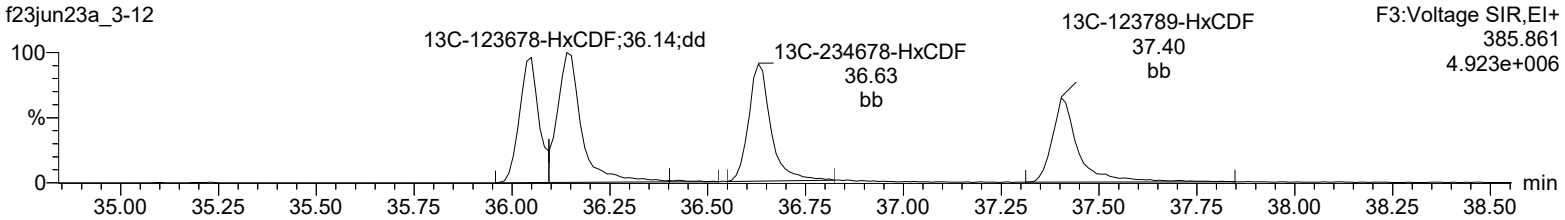
Total-hexafurans



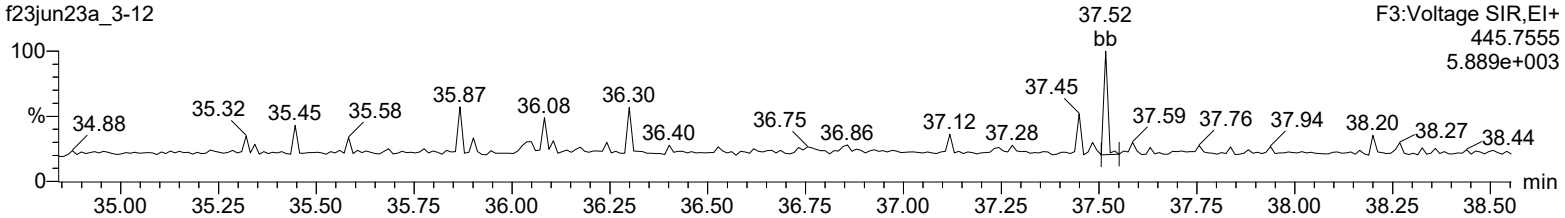
13C-123478-HxCDF



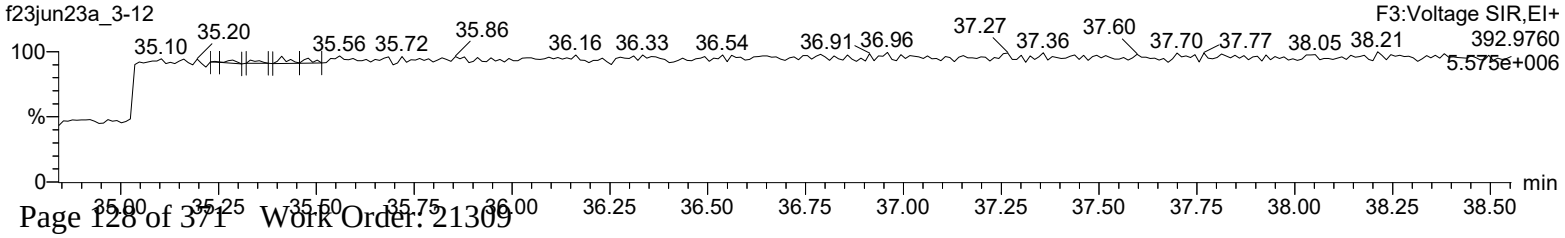
13C-123478-HxCDF



OcDPE



Lock Mass F3



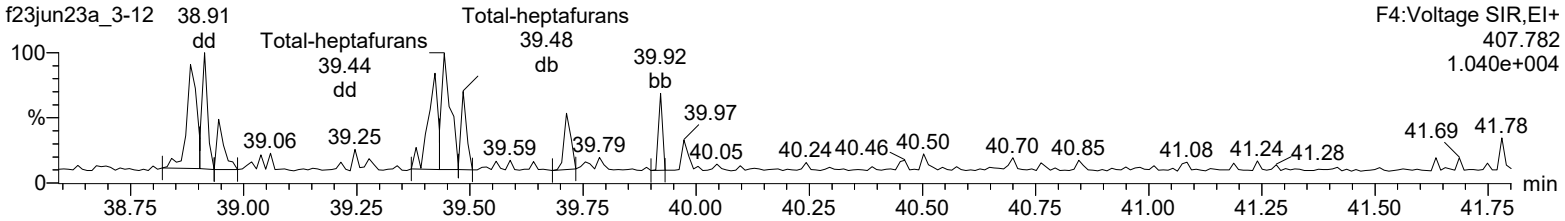
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

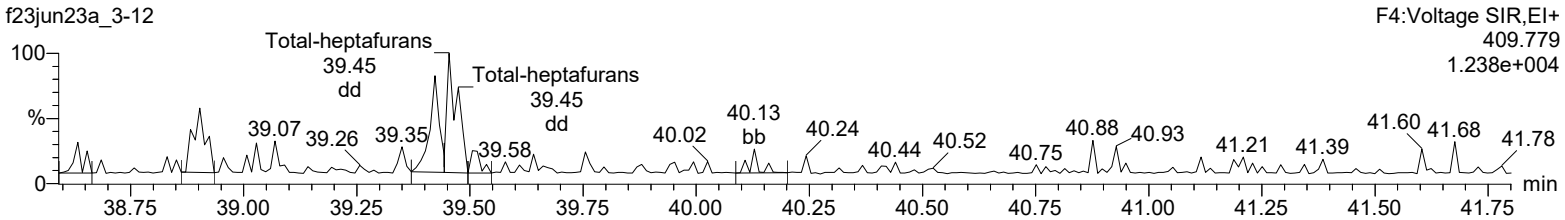
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

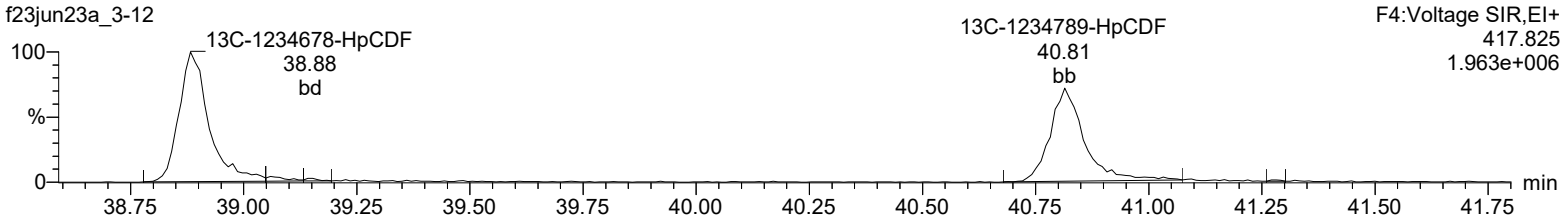
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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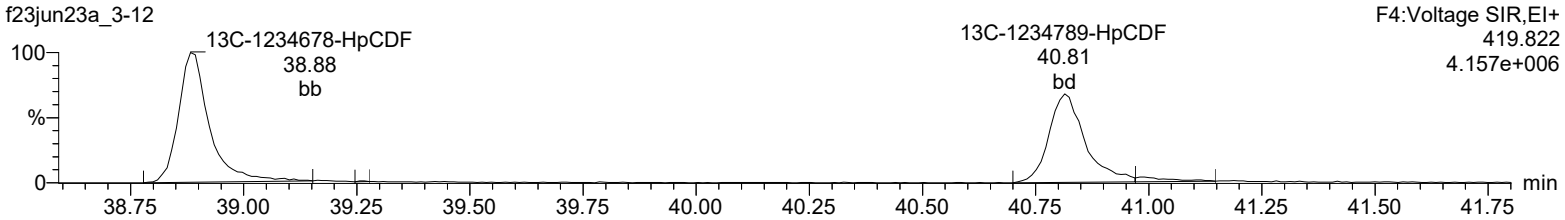
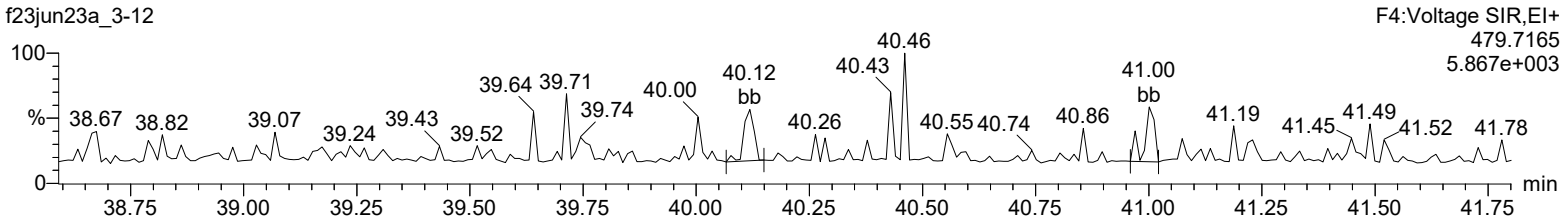
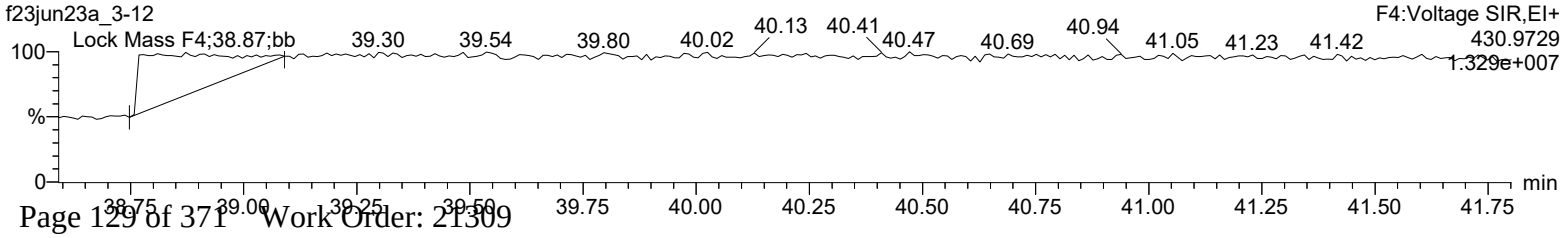


NoDPE



Lock Mass F4



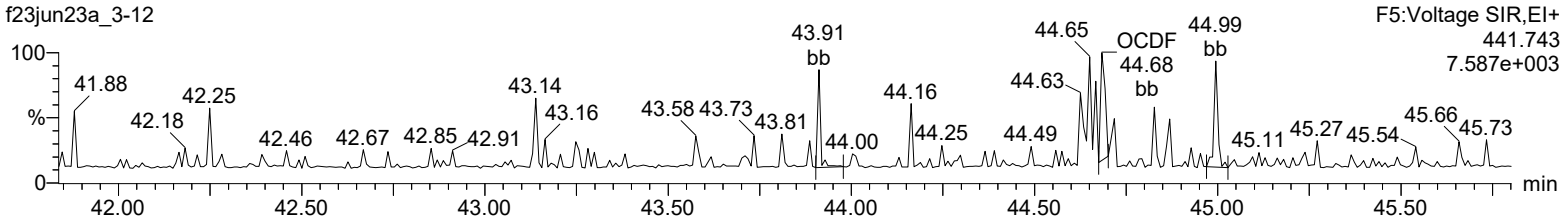
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

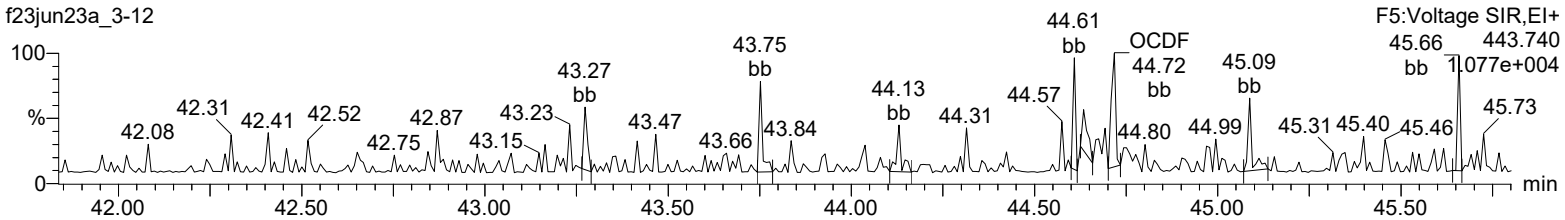
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-12, Date: 24-Jun-2023, Time: 17:45:46, ID: 21309004-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

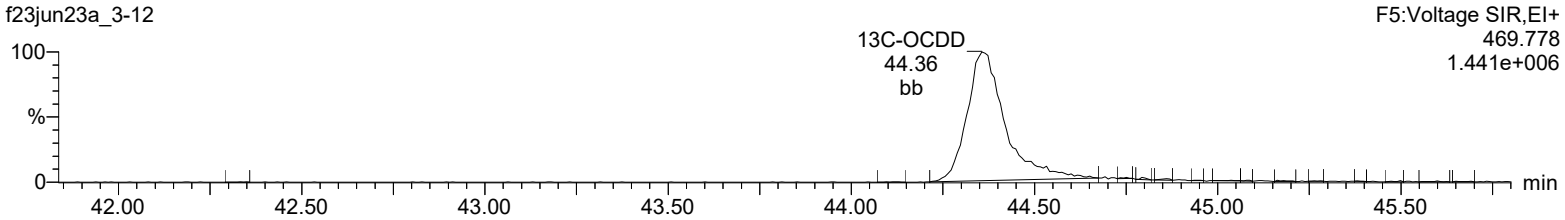
OCDF



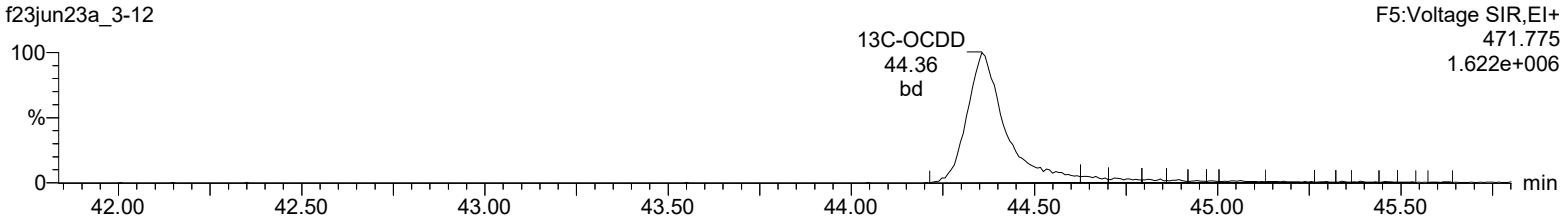
OCDF



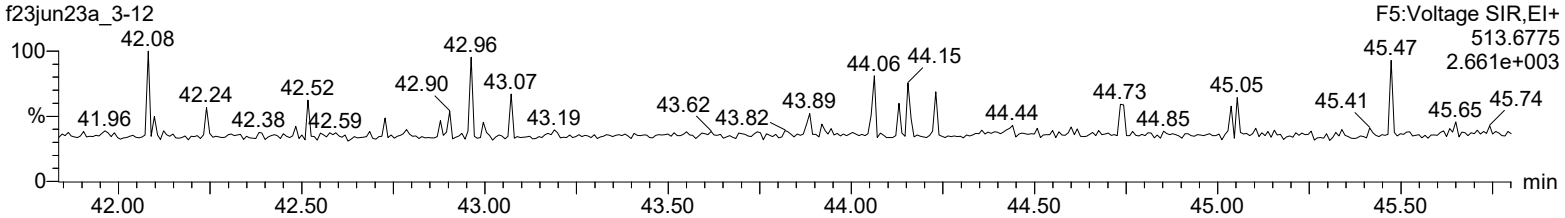
13C-OCDD



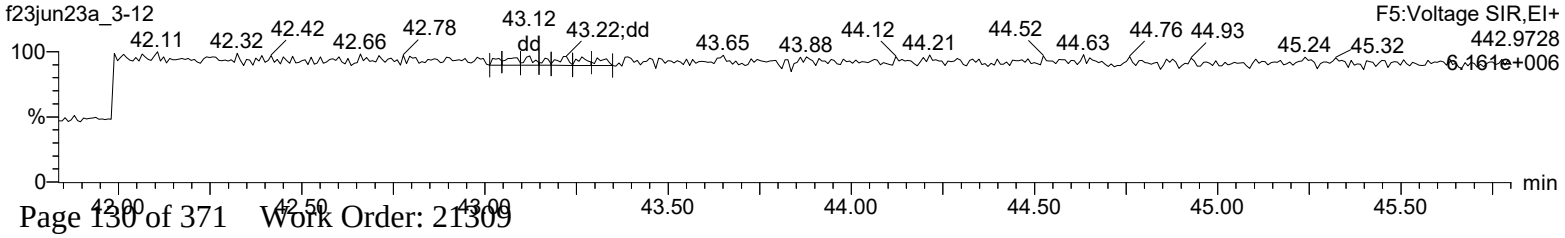
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309005**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR71-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 18:34**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-13**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**968.8 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.21	pg/L	2.21	5.16
40321-76-4	1,2,3,7,8-PeCDD	U	1.79	pg/L	1.79	25.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.87	pg/L	2.87	51.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.62	pg/L	2.62	51.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.73	pg/L	2.73	51.6
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	34.8	pg/L	9.93	51.6
3268-87-9	1,2,3,4,6,7,8,9-OCDD		251	pg/L	18.0	103
51207-31-9	2,3,7,8-TCDF	U	2.39	pg/L	2.39	10.3
57117-41-6	1,2,3,7,8-PeCDF	U	1.83	pg/L	1.83	51.6
57117-31-4	2,3,4,7,8-PeCDF	U	1.62	pg/L	1.62	51.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	2.21	pg/L	2.21	51.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	2.11	pg/L	2.11	51.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	2.23	pg/L	2.23	51.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	3.34	pg/L	3.34	51.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	12.4	pg/L	2.91	51.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.56	pg/L	4.56	51.6
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	68.5	pg/L	11.2	103
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	2.21	pg/L	2.21	10.3
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	1.79	pg/L	1.79	51.6
34465-46-8	Total Hexachlorodibenzo-p-dioxin	J	4.38	pg/L	2.62	51.6
TCDF	Total Tetrachlorodibenzofuran	U	2.39	pg/L	2.39	10.3
37871-00-4	Total Heptachlorodibenzo-p-dioxin	JK	54.3	pg/L	9.93	51.6
30402-15-4	Total Pentachlorodibenzofuran	U	0.656	pg/L	0.656	51.6
55684-94-1	Total Hexachlorodibenzofuran	J	6.48	pg/L	2.11	51.6
38998-75-3	Total Heptachlorodibenzofuran	J	40.2	pg/L	2.91	51.6
TEQ	TEQ WHO2005 ND=0		0.568	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		3.89	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1410	2060	pg/L	68.4	(25%-164%)
13C-1,2,3,7,8-PeCDD		1390	2060	pg/L	67.4	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1260	2060	pg/L	60.9	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1370	2060	pg/L	66.6	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1280	2060	pg/L	62.0	(23%-140%)
13C-OCDD		2240	4130	pg/L	54.2	(17%-157%)
13C-2,3,7,8-TCDF		1340	2060	pg/L	64.7	(24%-169%)
13C-1,2,3,7,8-PeCDF		1300	2060	pg/L	63.0	(24%-185%)
13C-2,3,4,7,8-PeCDF		1360	2060	pg/L	65.8	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1280	2060	pg/L	62.2	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1330	2060	pg/L	64.2	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1360	2060	pg/L	65.9	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	2060	pg/L	62.8	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**21309005**	**Date Collected:**	**05/05/2022 12:00**	**Matrix:**	**WATER**
Client Sample:	**1613B Water**	**Date Received:**	**05/13/2022 10:24**		
Client ID:	**SIB-SW-WR71-050522**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 18:34**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-13**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**968.8 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	2060	pg/L	63.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1360	2060	pg/L	65.9	(26%-138%)
37Cl-2,3,7,8-TCDD		177	206	pg/L	85.9	(35%-197%)

Comments:

J **Value is estimated**

K **Estimated Maximum Possible Concentration**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:40:09 PM Eastern Daylight Time

06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.107		2381			1069			
2	12378-PeCDD							NO		0.0869		1865			752			
3	123478-HxCDD							NO		0.139		1594			1369			
4	123678-HxCDD	1.29e2	6.09e1	1.90e2	36.86	1.000	2.11	YES	0.044	0.127	4.44e3	1594	2.8	3.85e3	1369	2.8	db	bb
5	123789-HxCDD	1.40e2	5.56e1	1.96e2	37.11	1.007	2.52	YES	0.051	0.132	6.37e3	1594	4.0	1.30e3	1369	1.0	bb	db
6	1234678-HpCDD	2.82e3	3.28e3	6.10e3	40.17	1.001	0.86	YES	1.684	0.481	3.55e4	4010	8.9	4.08e4	3255	12.5	bb	MM
7	OCDD	1.37e4	1.46e4	2.83e4	44.39	1.001	0.94	NO	12.154	0.873	1.30e5	3526	36.9	1.62e5	3029	53.5	MM	bd
8	2378-TCDF							NO		0.116		1746			3008			
9	12378-PeCDF	1.50e2	1.71e2	3.21e2	33.36	1.000	0.88	YES	0.034	0.0887	5.09e3	1884	2.7	5.04e3	4007	1.3	bd	bd
10	23478-PeCDF	1.34e2	7.91e1	2.13e2	33.98	1.001	1.70	NO	0.021	0.0785	8.73e3	1884	4.6	4.95e3	4007	1.2	bb	bb
11	123478-HxCDF	9.51e1	6.52e1	1.60e2	36.05	1.000	1.46	YES	0.024	0.107	5.29e3	2231	2.4	1.93e3	2442	0.8	bb	bb
12	123678-HxCDF							NO		0.102		2231			2442			
13	234678-HxCDF	5.82e1	5.46e1	1.13e2	36.64	1.000	1.07	NO	0.015	0.108	2.22e3	2231	1.0	2.20e3	2442	0.9	bb	bb
14	123789-HxCDF							NO		0.162		2231			2442			
15	1234678-HpCDF	2.45e3	2.40e3	4.86e3	38.89	1.000	1.02	NO	0.603	0.141	3.49e4	3492	10.0	3.64e4	2218	16.4	bb	bd
16	1234789-HpCDF							NO		0.221		3492			2218			
17	OCDF	5.75e3	6.47e3	1.22e4	44.69	1.008	0.89	NO	3.317	0.543	5.23e4	2494	21.0	6.02e4	3958	15.2	MM	bd
18	13C-2378-TCDD	2.39e5	2.99e5	5.37e5	31.28	1.017	0.80	NO	68.394	0.269	3.27e6	6476	504.8	3.93e6	3825	1026.5	bb	bd
19	13C-12378-PeCDD	2.34e5	1.44e5	3.78e5	34.15	1.110	1.63	NO	67.396	0.298	4.01e6	3439	1164.8	2.47e6	4725	522.8	bd	bd
20	13C-123478-HxCDD	1.72e5	1.35e5	3.07e5	36.76	0.991	1.27	NO	60.884	0.945	2.78e6	12255	227.2	2.22e6	10317	215.0	bd	bd
21	13C-123678-HxCDD	2.26e5	1.81e5	4.07e5	36.85	0.994	1.25	NO	66.598	0.780	3.04e6	12255	248.1	2.47e6	10317	239.8	dd	dd
22	13C-1234678-HpCDD	1.54e5	1.41e5	2.95e5	40.14	1.082	1.10	NO	62.036	0.648	1.61e6	8608	187.0	1.55e6	6008	258.6	bd	bd
23	13C-OCDD	2.02e5	2.18e5	4.20e5	44.35	1.196	0.93	NO	108.429	0.683	1.63e6	7338	222.6	1.89e6	5211	362.8	bd	bd
24	13C-2378-TCDF	3.50e5	4.24e5	7.74e5	30.58	0.994	0.83	NO	64.706	0.132	3.43e6	3501	981.1	4.03e6	4186	963.9	bd	bd
25	13C-12378-PeCDF	4.71e5	2.76e5	7.47e5	33.35	1.084	1.71	NO	63.004	0.617	8.21e6	21786	377.0	4.89e6	13937	350.8	bb	bb
26	13C-23478-PeCDF	4.61e5	2.74e5	7.35e5	33.96	1.104	1.68	NO	65.826	0.655	8.44e6	21786	387.3	5.05e6	13937	362.3	bb	bb
27	13C-123478-HxCDF	1.64e5	3.13e5	4.77e5	36.05	0.972	0.52	NO	62.155	0.745	2.65e6	12027	220.5	5.17e6	15067	343.3	bd	bd
28	13C-123678-HxCDF	2.11e5	3.98e5	6.10e5	36.15	0.975	0.53	NO	64.219	0.602	2.87e6	12027	238.9	5.53e6	15067	366.9	dd	dd
29	13C-234678-HxCDF	1.85e5	3.39e5	5.24e5	36.63	0.988	0.55	NO	65.922	0.719	2.69e6	12027	223.6	5.17e6	15067	343.1	bd	bb
30	13C-123789-HxCDF	1.48e5	2.96e5	4.44e5	37.40	1.009	0.50	NO	62.848	0.808	1.84e6	12027	153.2	3.48e6	15067	231.1	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:40:09 PM Eastern Daylight Time

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.78e5	4.04e5	5.82e5	38.88	1.048	0.44	NO	63.696	0.695	2.25e6	15789	142.4	4.82e6	14293	337.3	bd	bb
32	13C-1234789-HpCDF	1.46e5	3.23e5	4.69e5	40.81	1.101	0.45	NO	65.915	0.891	1.48e6	15789	93.7	3.13e6	14293	218.7	bd	bb
33	13C-1234-TCDD	3.13e5	3.77e5	6.90e5	30.77	0.000	0.83	NO	100.000	0.306	3.82e6	6476	590.2	4.48e6	3825	1171.5	bd	bb
34	13C-123789-HxCDD	3.38e5	2.56e5	5.94e5	37.08	0.000	1.32	NO	100.000	0.801	4.01e6	12255	327.1	3.23e6	10317	313.4	dd	dd
35	37Cl-2378-TCDD	6.66e4		6.66e4	31.30	1.017			8.589	0.0586	8.94e5	2218	403.3				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-13, ID:21309005-1, Description: 52698

M	M2
	6 1234678-HpCDD 40.17 - AB
7 OCDD 44.39 - AB	
17 OCDF 44.69 - AB	

Reason Codes assigned by MW1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

MW 06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:40:09 PM Eastern Daylight Time

AMM 06/29/2023

Method: Untitled 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetradioxins	9.15e1	5.07e1	1.42e2	27.10	1.80	YES	0.024	0.107	2.82e3	2381	1.2	2.50e3	1069	2.3	bd	bb
2	Total-tetradioxins	7.59e1	1.07e2	1.83e2	30.51	0.71	NO	0.031	0.107	2.66e3	2381	1.1	4.50e3	1069	4.2	bd	bb
3	Total-tetradioxins	7.70e1	1.56e2	2.33e2	31.32	0.49	YES	0.039	0.107	2.18e3	2381	0.9	2.38e3	1069	2.2	bb	bb

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexadioxins	1.00e2	6.73e1	1.67e2	35.53	1.49	YES	0.044	0.132	2.10e3	1594	1.3	2.40e3	1369	1.8	bb	db
2	Total-hexadioxins	1.58e2	6.46e1	2.23e2	36.03	2.44	YES	0.058	0.132	3.51e3	1594	2.2	1.84e3	1369	1.3	bd	bb
3	Total-hexadioxins	4.74e2	3.33e2	8.07e2	36.23	1.42	NO	0.212	0.132	7.68e3	1594	4.8	6.47e3	1369	4.7	MM	MM
4	123678-HxCDD	1.29e2	6.09e1	1.90e2	36.86	2.11	YES	0.044	0.127	4.44e3	1594	2.8	3.85e3	1369	2.8	db	bb
5	123789-HxCDD	1.40e2	5.56e1	1.96e2	37.11	2.52	YES	0.051	0.132	6.37e3	1594	4.0	1.30e3	1369	1.0	bb	db

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-heptadioxins	1.37e2	1.81e2	3.18e2	38.87	0.76	YES	0.088	0.481	3.04e3	4010	0.8	8.83e3	3255	2.7	bb	bb
2	Total-heptadioxins	1.76e3	1.67e3	3.43e3	39.25	1.05	NO	0.946	0.481	2.72e4	4010	6.8	2.28e4	3255	7.0	MM	MM
3	1234678-HpCDD	2.82e3	3.28e3	6.10e3	40.17	0.86	YES	1.684	0.481	3.55e4	4010	8.9	4.08e4	3255	12.5	bb	MM
4	Total-heptadioxins	7.01e1	8.76e1	1.58e2	40.46	0.80	YES	0.044	0.481	6.19e3	4010	1.5	3.18e3	3255	1.0	db	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:40:09 PM Eastern Daylight Time

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	1.14e2	5.65e1	1.70e2	26.47	2.01	YES	0.016	0.116	7.34e3	1746	4.2	2.59e3	3008	0.9	bb	bd
2	Total-tetrafurans	8.00e1	2.11e2	2.91e2	26.74	0.38	YES	0.028	0.116	4.42e3	1746	2.5	7.63e3	3008	2.5	bb	bb
3	Total-tetrafurans	1.16e2	3.12e2	4.28e2	27.25	0.37	YES	0.041	0.116	5.23e3	1746	3.0	4.36e3	3008	1.4	bb	db
4	Total-tetrafurans	9.65e1	9.23e1	1.89e2	27.86	1.05	YES	0.018	0.116	6.03e3	1746	3.5	3.39e3	3008	1.1	bb	db
5	Total-tetrafurans	6.44e1	1.54e2	2.18e2	28.25	0.42	YES	0.021	0.116	1.91e3	1746	1.1	5.39e3	3008	1.8	bd	bb
6	Total-tetrafurans	5.12e1	1.35e2	1.86e2	29.18	0.38	YES	0.018	0.116	2.59e3	1746	1.5	4.14e3	3008	1.4	bb	bb
7	Total-tetrafurans	2.13e2	6.42e1	2.77e2	29.97	3.32	YES	0.026	0.116	7.39e3	1746	4.2	2.70e3	3008	0.9	bb	bb
8	Total-tetrafurans	8.98e1	7.79e1	1.68e2	30.14	1.15	YES	0.016	0.116	3.95e3	1746	2.3	4.24e3	3008	1.4	bb	bd
9	Total-tetrafurans	6.18e1	1.06e2	1.68e2	30.77	0.58	YES	0.016	0.116	1.98e3	1746	1.1	6.03e3	3008	2.0	bb	bb
10	Total-tetrafurans	7.83e1	1.83e2	2.62e2	31.53	0.43	YES	0.025	0.116	5.28e3	1746	3.0	7.63e3	3008	2.5	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans (F1)	1.56e2	6.56e1	2.22e2	26.18	2.38	YES	0.022	0.0318	8.30e3	749	11.1	4.50e3	1496	3.0	bb	bb
2	Total-pentafurans (F1)	1.36e2	1.09e2	2.45e2	30.17	1.25	YES	0.025	0.0318	4.62e3	749	6.2	2.21e3	1496	1.5	bb	bd
3	Total-pentafurans (F1)	7.15e1	1.79e2	2.50e2	31.94	0.40	YES	0.025	0.0318	1.83e3	749	2.4	9.33e3	1496	6.2	bb	bb

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-pentafurans	1.15e2	8.37e1	1.99e2	32.79	1.38	NO	0.020	0.0834	1.07e4	1884	5.7	3.35e3	4007	0.8	bb	bb
2	12378-PeCDF	1.50e2	1.71e2	3.21e2	33.36	0.88	YES	0.034	0.0887	5.09e3	1884	2.7	5.04e3	4007	1.3	bd	bd
3	Total-pentafurans	9.46e1	1.06e2	2.00e2	33.38	0.89	YES	0.020	0.0834	5.03e3	1884	2.7	7.04e3	4007	1.8	db	db
4	Total-pentafurans	1.90e2	7.96e1	2.70e2	33.54	2.39	YES	0.027	0.0834	1.43e4	1884	7.6	6.96e3	4007	1.7	bb	bb
5	23478-PeCDF	1.34e2	7.91e1	2.13e2	33.98	1.70	NO	0.021	0.0785	8.73e3	1884	4.6	4.95e3	4007	1.2	bb	bb
6	Total-pentafurans	6.82e1	6.81e1	1.36e2	34.35	1.00	YES	0.014	0.0834	5.73e3	1884	3.0	6.23e3	4007	1.6	bb	bb
7	Total-pentafurans	5.08e1	1.05e2	1.56e2	34.56	0.48	YES	0.016	0.0834	2.54e3	1884	1.3	7.23e3	4007	1.8	bb	bb

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3-11.qld

Last Altered: Wednesday, June 28, 2023 4:27:29 PM Eastern Daylight Time
Printed: Wednesday, June 28, 2023 3:40:09 PM Eastern Daylight Time

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-hexafurans	1.30e2	2.90e2	4.19e2	35.09	0.45	YES	0.059	0.117	3.58e3	2231	1.6	1.92e4	2442	7.9	bb	bd
2	Total-hexafurans	5.85e2	5.12e2	1.10e3	35.23	1.14	NO	0.155	0.117	1.28e4	2231	5.7	1.59e4	2442	6.5	MM	db
3	Total-hexafurans	6.36e2	4.94e2	1.13e3	35.69	1.29	NO	0.159	0.117	1.58e4	2231	7.1	1.02e4	2442	4.2	bb	bb
4	123478-HxCDF	9.51e1	6.52e1	1.60e2	36.05	1.46	YES	0.024	0.107	5.29e3	2231	2.4	1.93e3	2442	0.8	bb	bb
5	234678-HxCDF	5.82e1	5.46e1	1.13e2	36.64	1.07	NO	0.015	0.108	2.22e3	2231	1.0	2.20e3	2442	0.9	bb	bb

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	1234678-HpCDF	2.45e3	2.40e3	4.86e3	38.89	1.02	NO	0.603	0.141	3.49e4	3492	10.0	3.64e4	2218	16.4	bb	bd
2	Total-heptafurans	5.02e3	4.69e3	9.71e3	39.43	1.07	NO	1.345	0.176	7.36e4	3492	21.1	7.26e4	2218	32.7	bd	bd
3	Total-heptafurans	2.27e2	3.10e2	5.37e2	39.57	0.73	YES	0.074	0.176	1.19e4	3492	3.4	1.27e4	2218	5.7	db	dd
4	Total-heptafurans	6.62e1	6.78e1	1.34e2	39.78	0.98	NO	0.019	0.176	6.28e3	3492	1.8	5.72e3	2218	2.6	bb	db

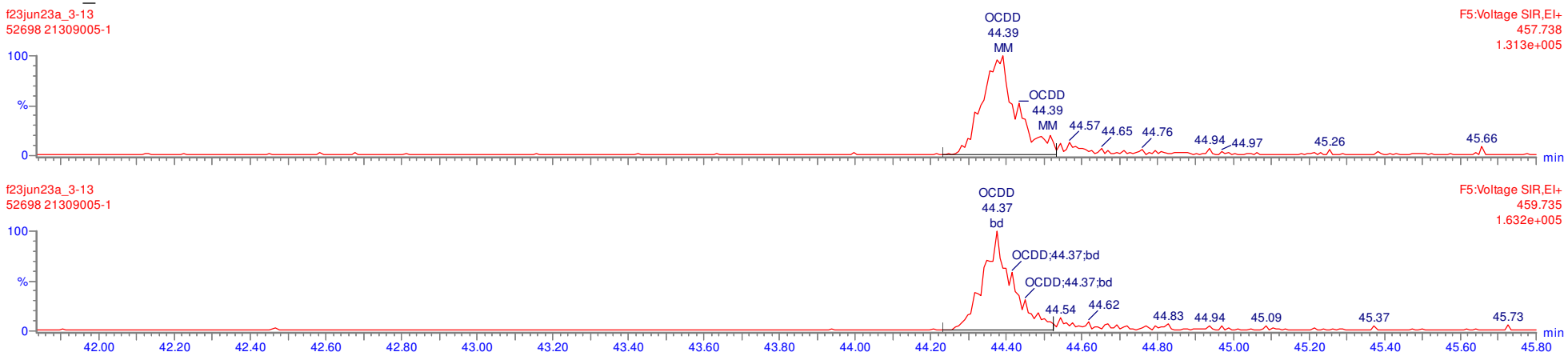
Reasons for Analyst Intervention

Name:f23jun23a_3-13, ID:21309005-1, Description: 52698

M	M2
3 Total-hexadioxins 36.23 - AB	3 Total-hexadioxins 36.23 - AB
2 Total-heptadioxins 39.25 - AB	2 Total-heptadioxins 39.25 - AB
	3 1234678-HpCDD 40.17 - AB
2 Total-hexafurans 35.23 - AB	

Reason Codes assigned by MW1 on 28-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



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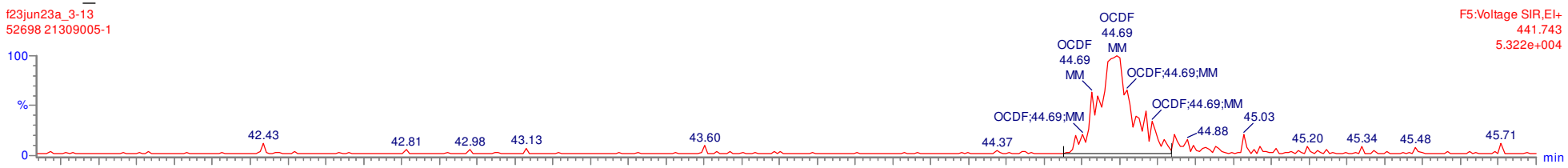
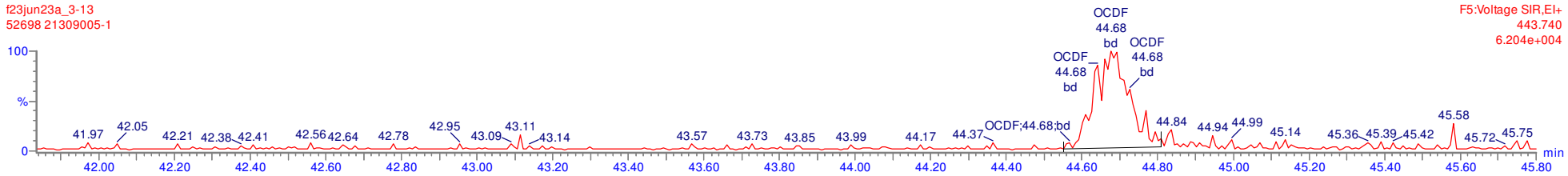
MANUAL INTEGRATION
METHOD 1613
HRP722_2





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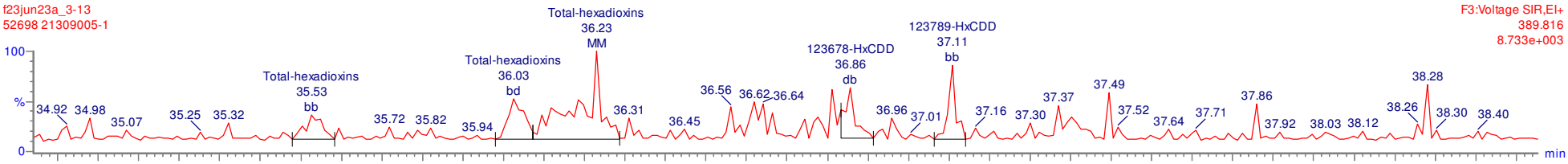
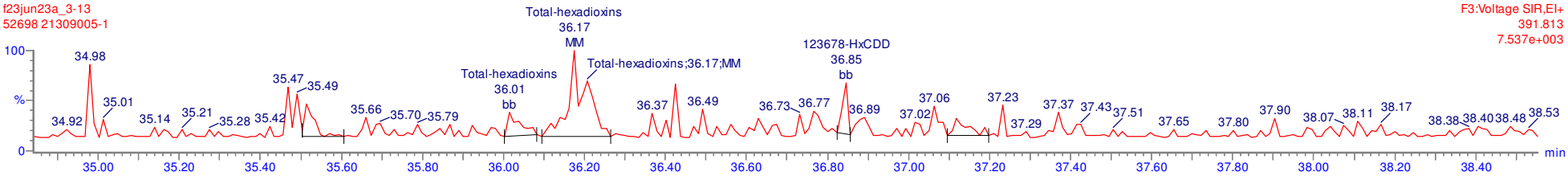
MANUAL INTEGRATION
METHOD 1613
HRP722_2





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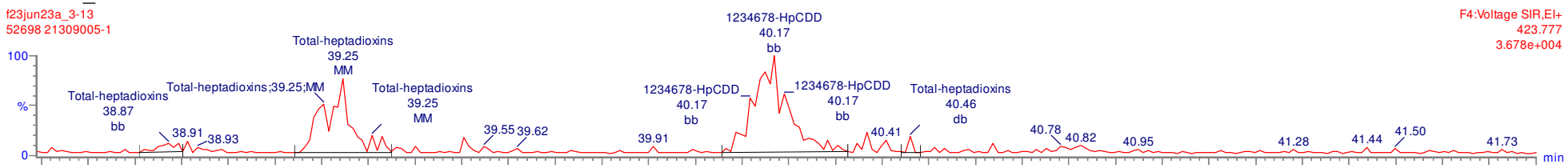
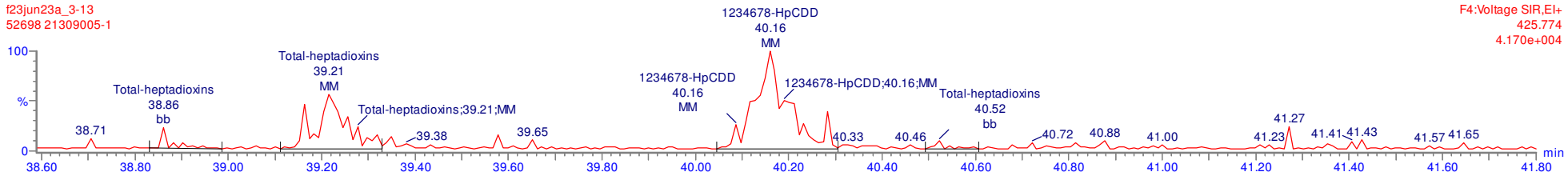
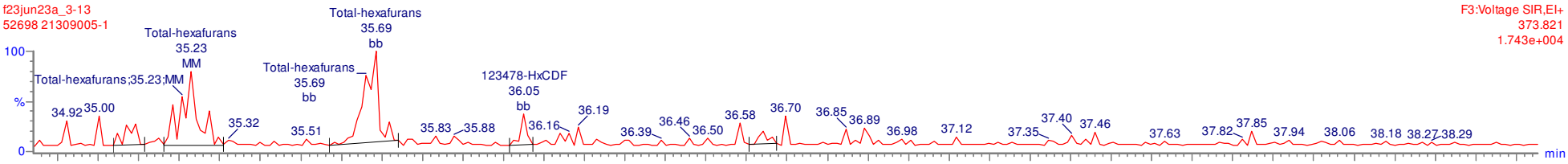
MANUAL INTEGRATION
METHOD 1613
HRP722_2

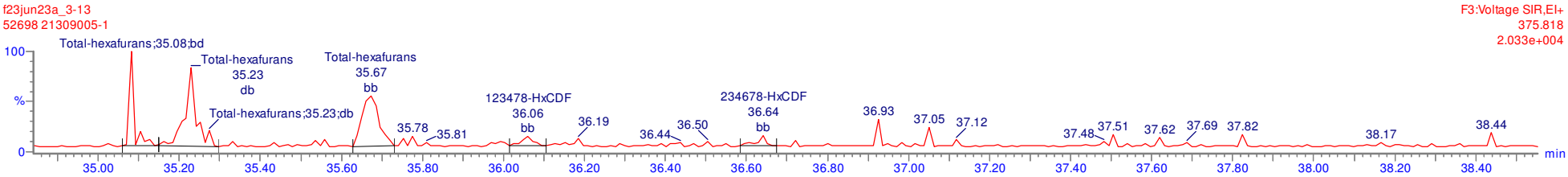




06/28/2023 06/29/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2





06/28/2023 06/29/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

MW 06/28/2023

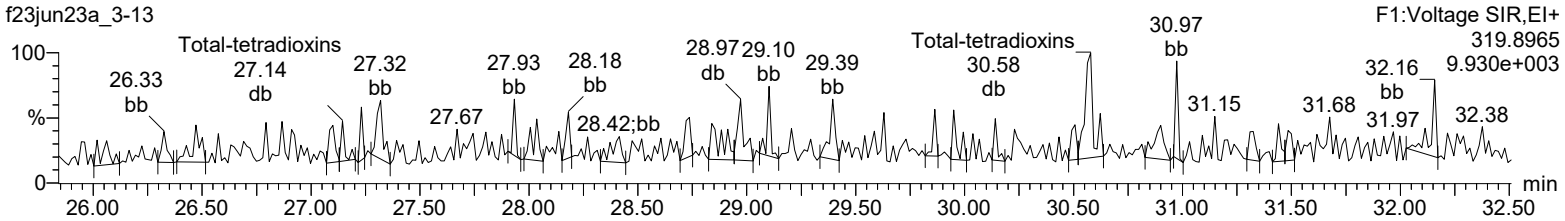
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

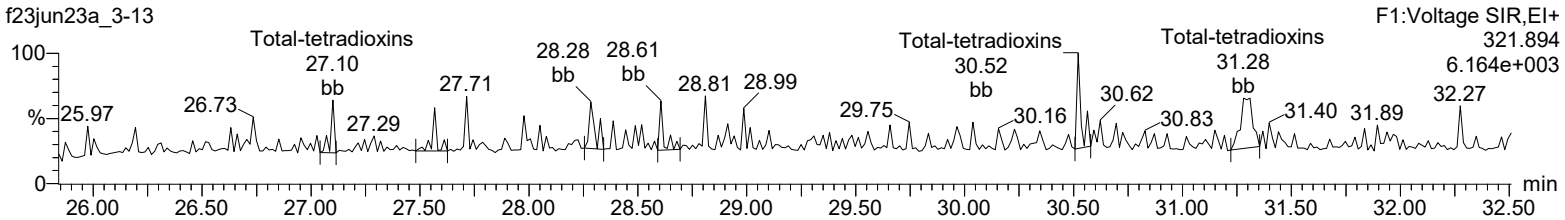
AMA 06/29/2023

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

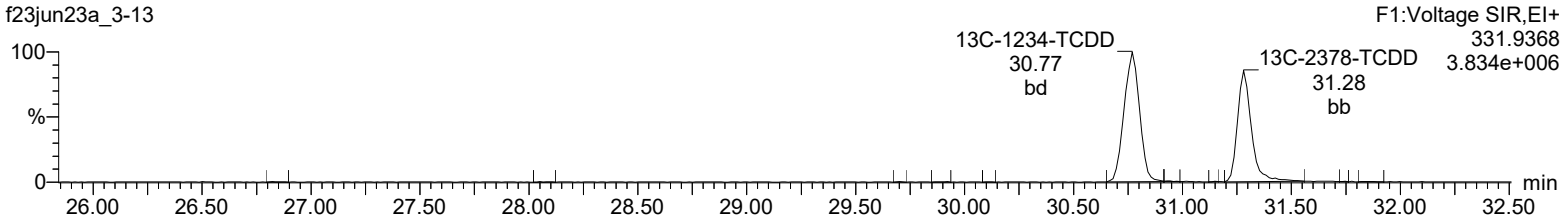
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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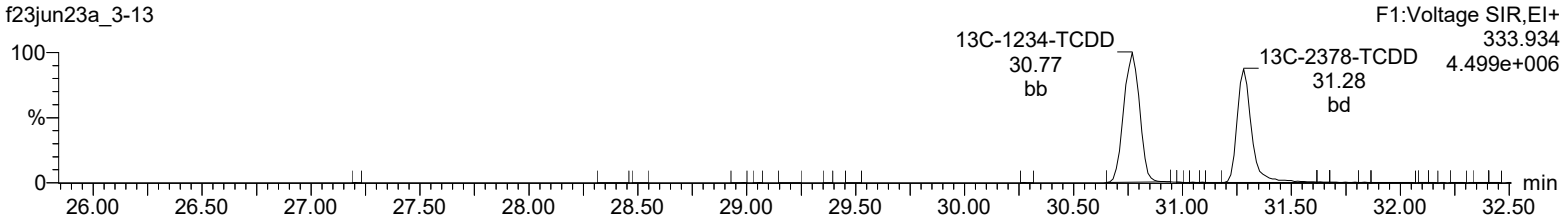
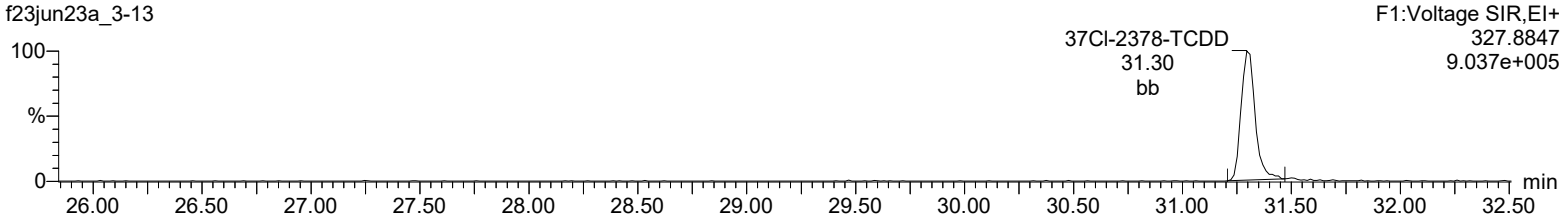
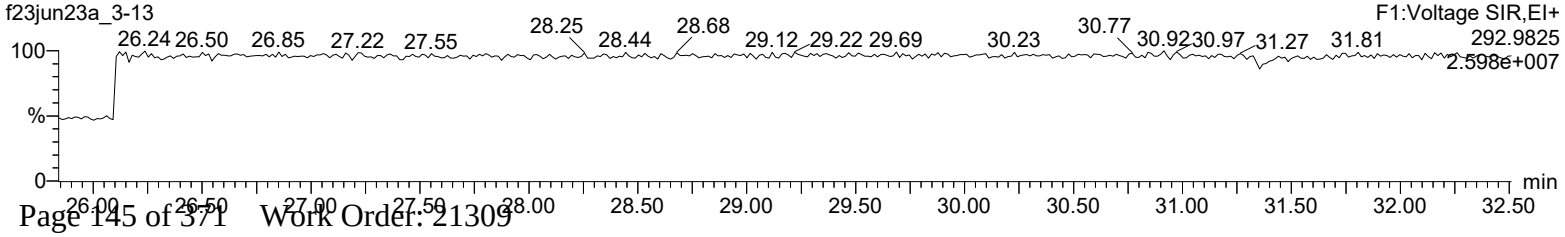


37Cl-2378-TCDD



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

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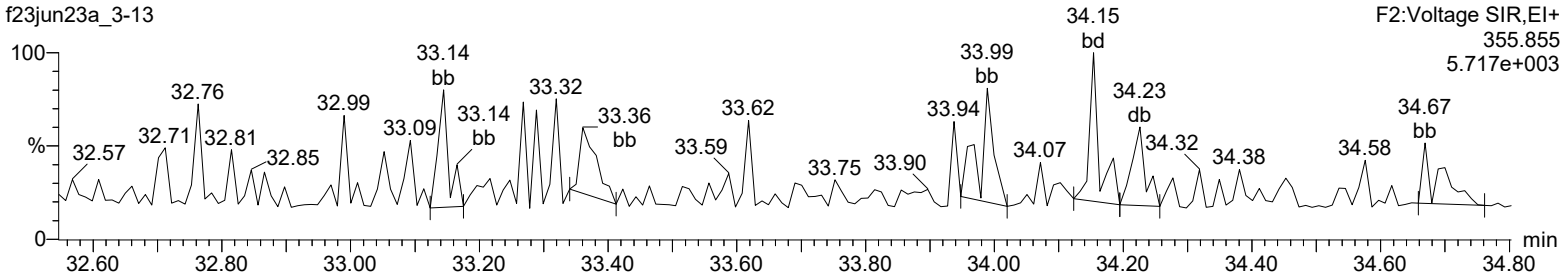
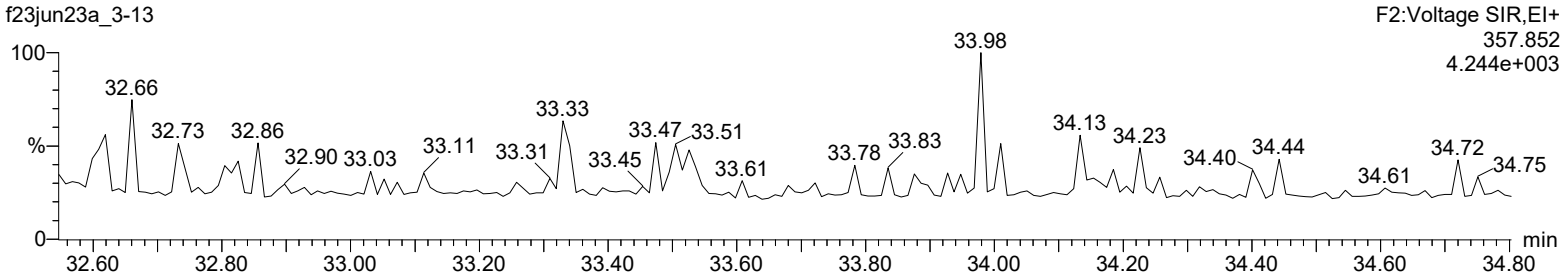
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

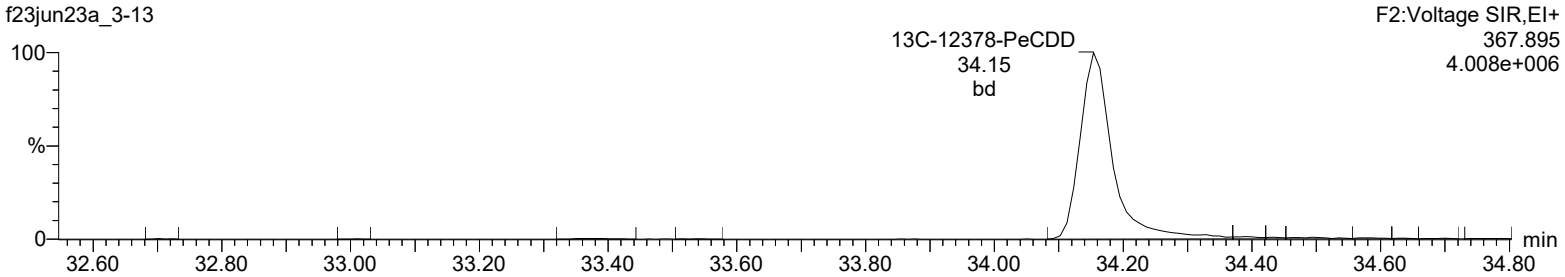
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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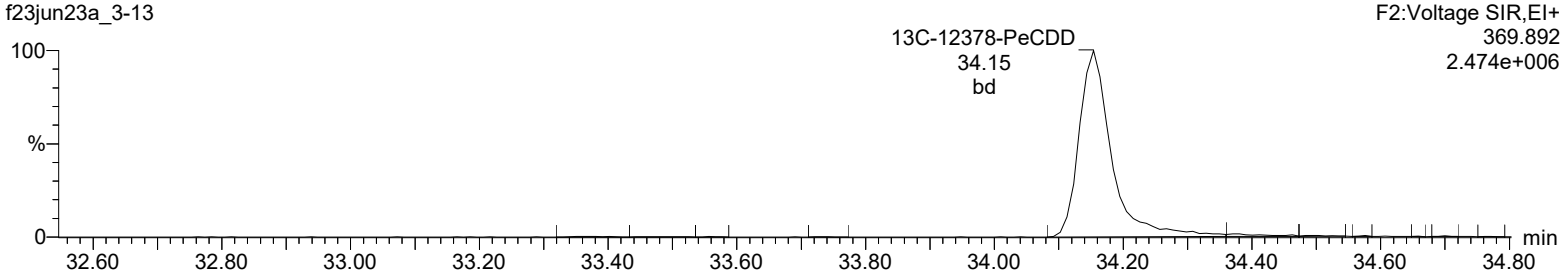
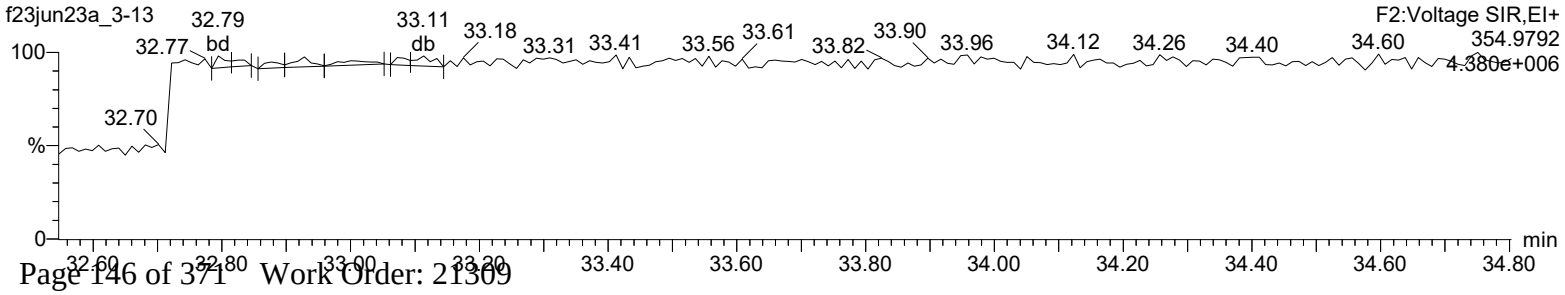


Lock Mass F2



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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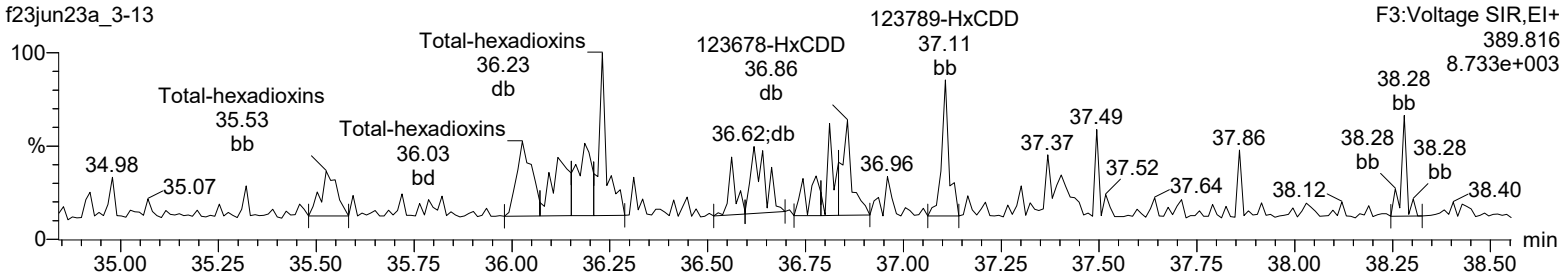
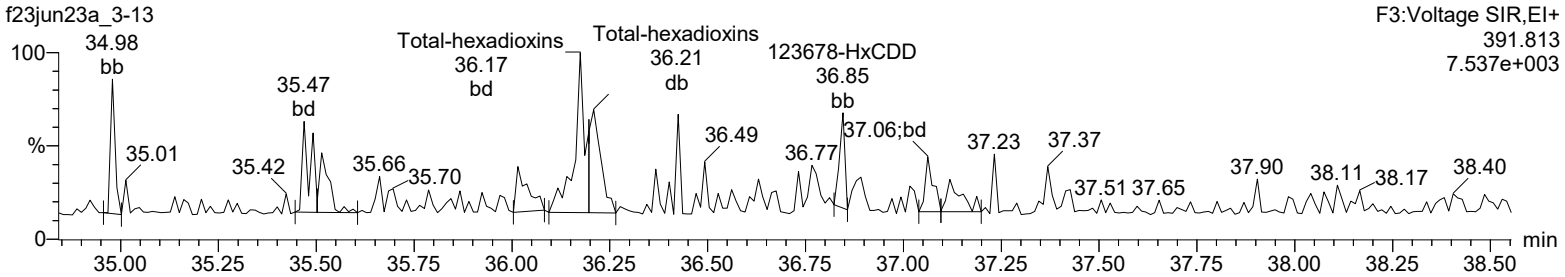
Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

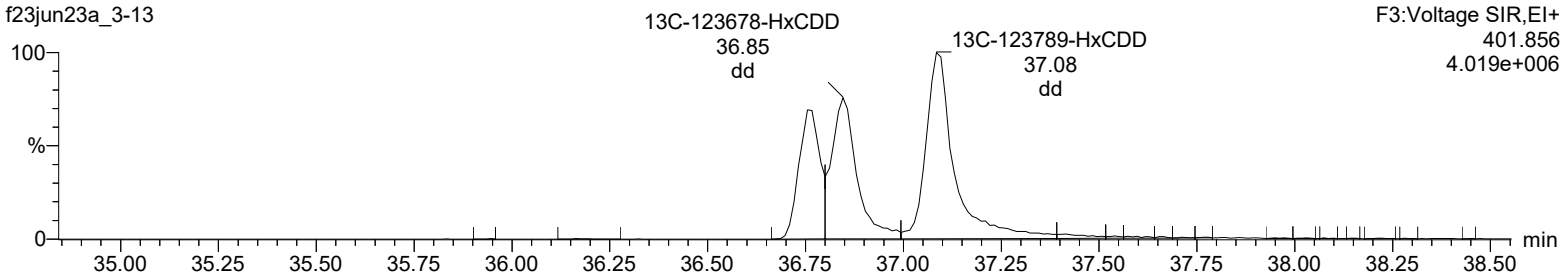
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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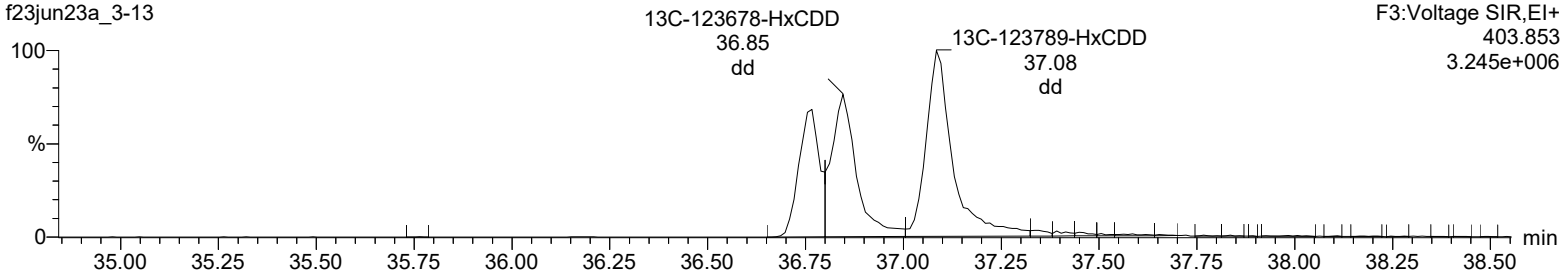
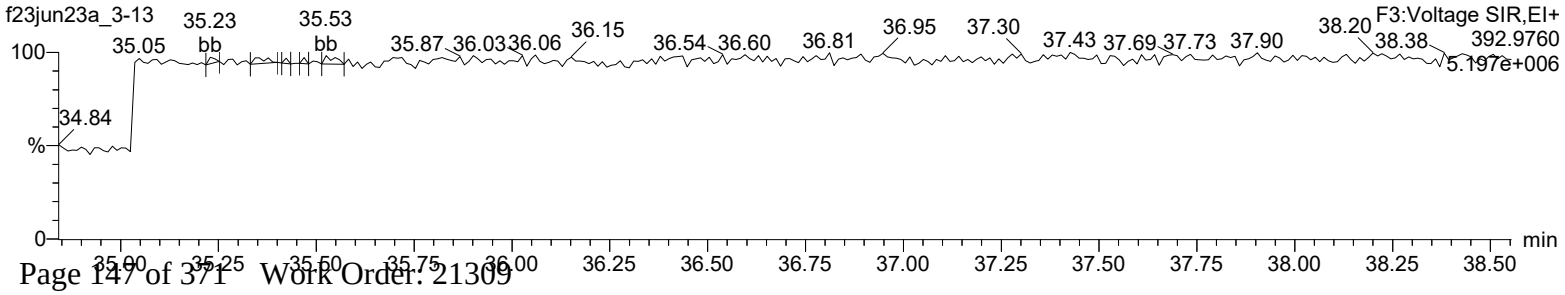


Lock Mass F3



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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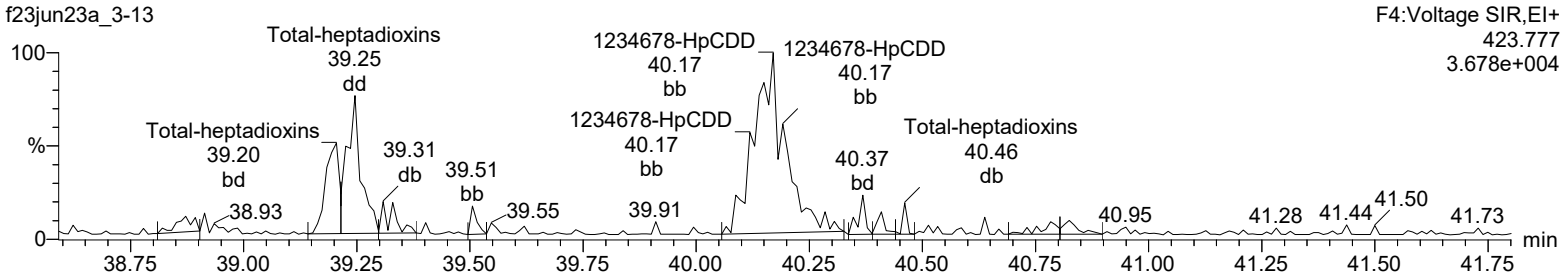
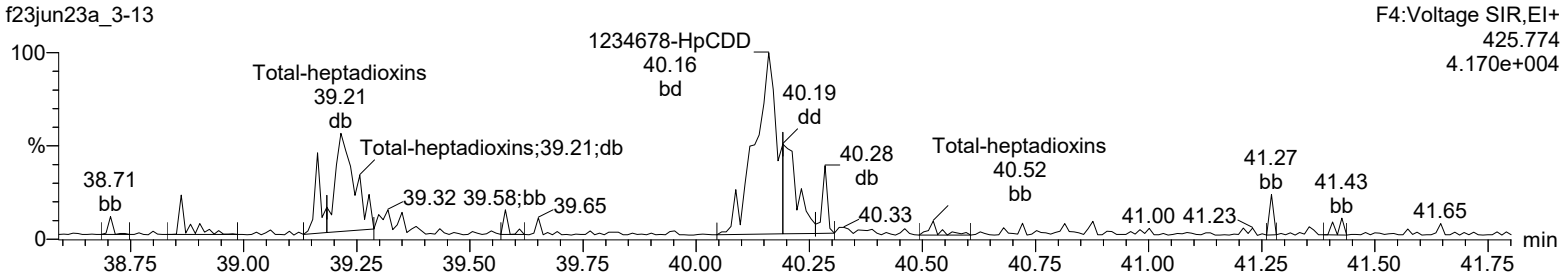
Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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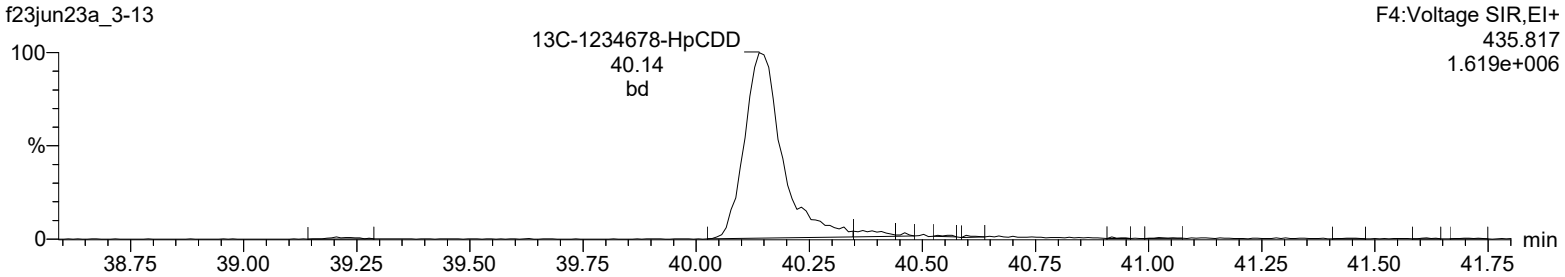

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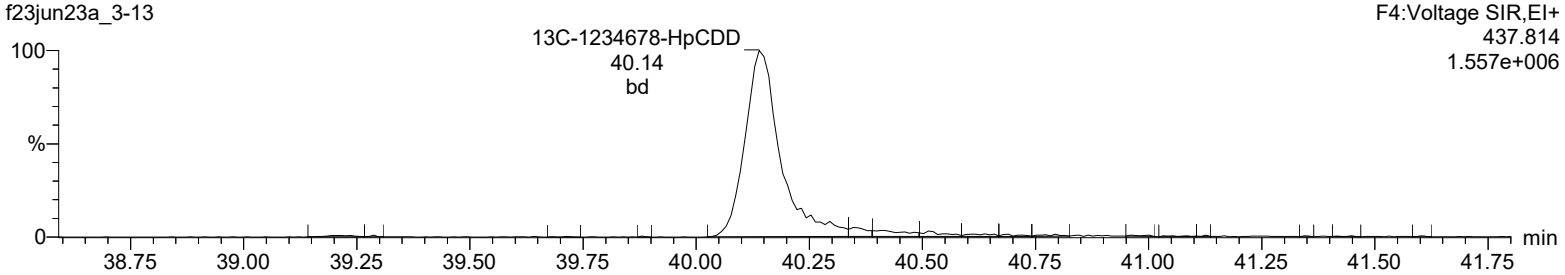
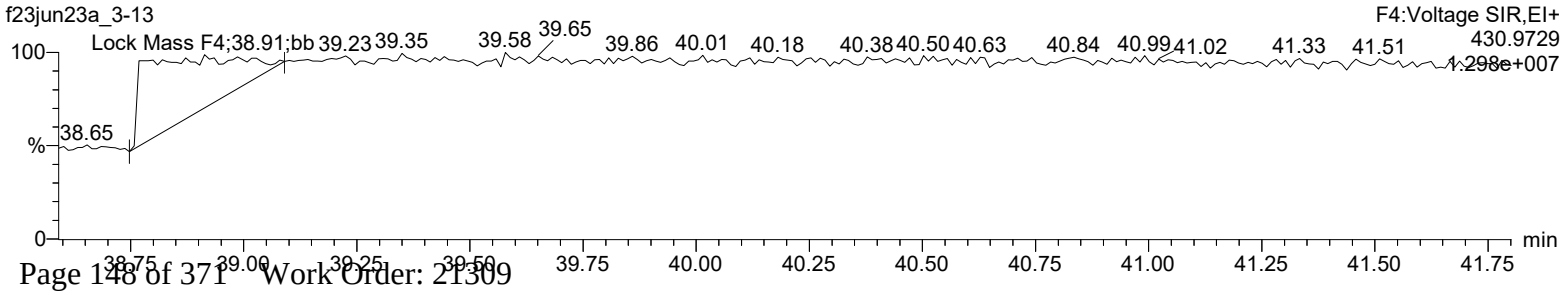


Lock Mass F4



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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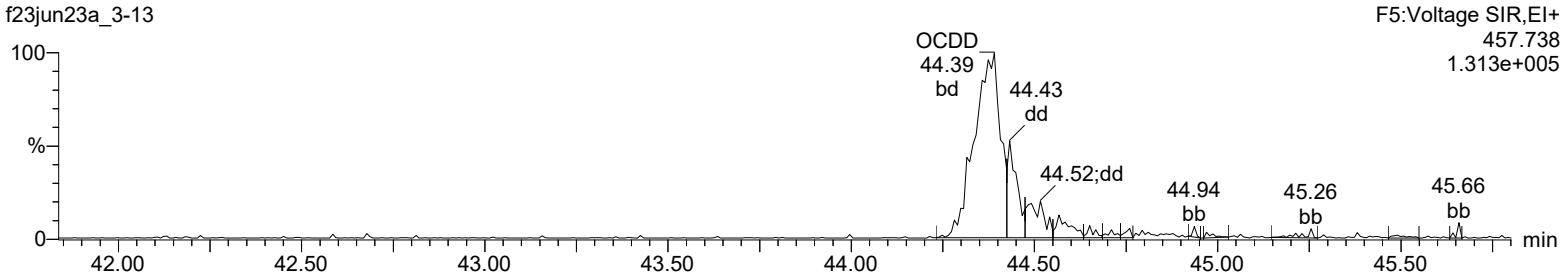
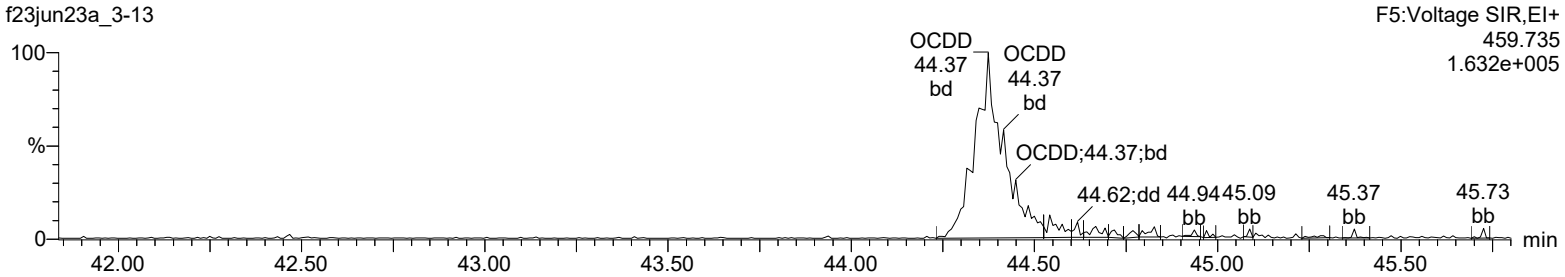
Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

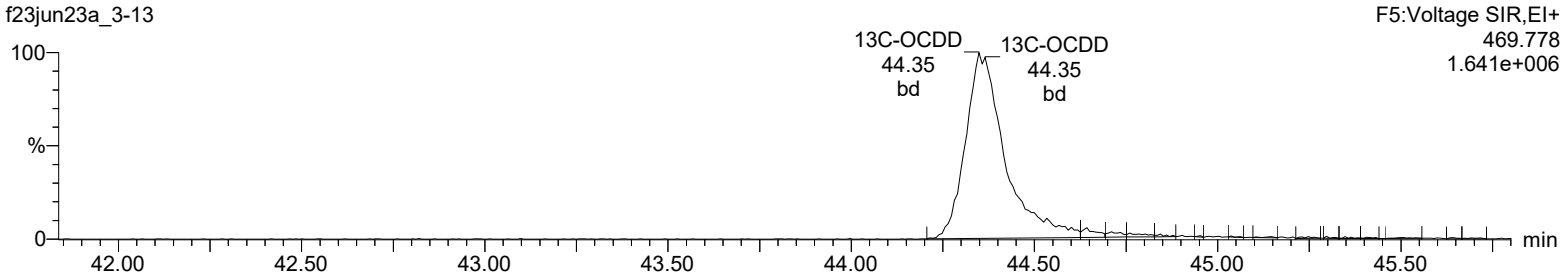
OCDD



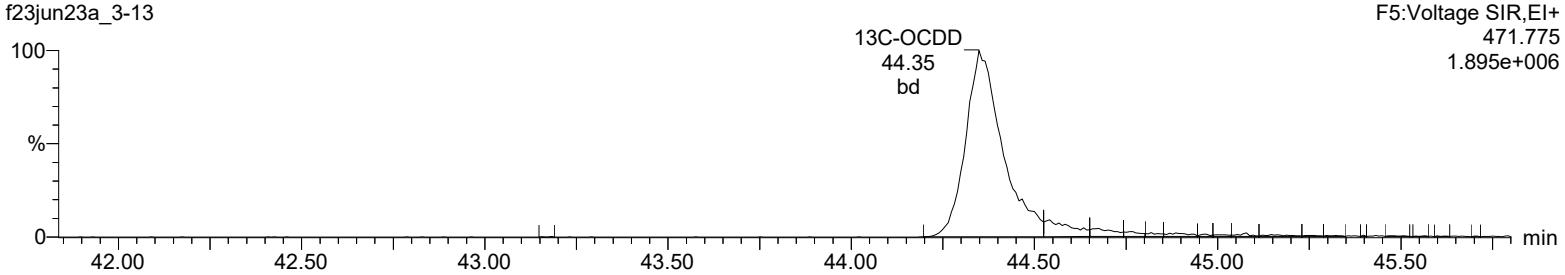
OCDD



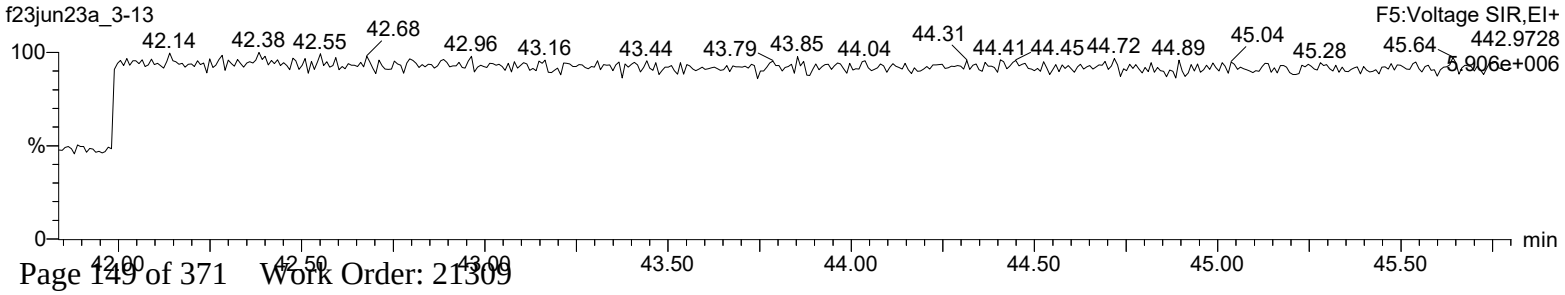
13C-OCDD



13C-OCDD



Lock Mass F5



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
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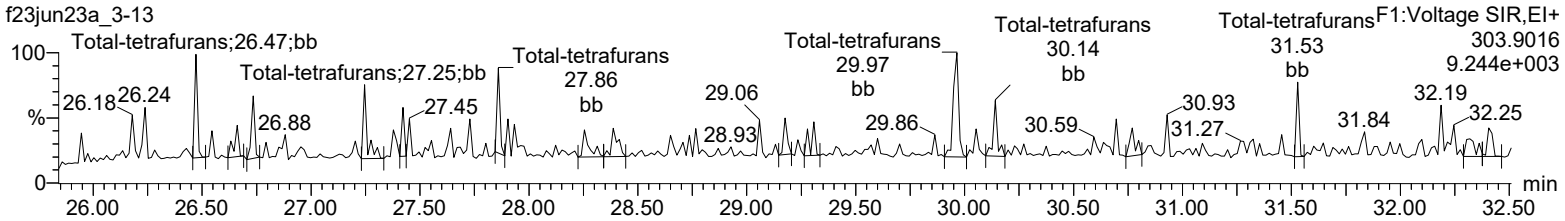
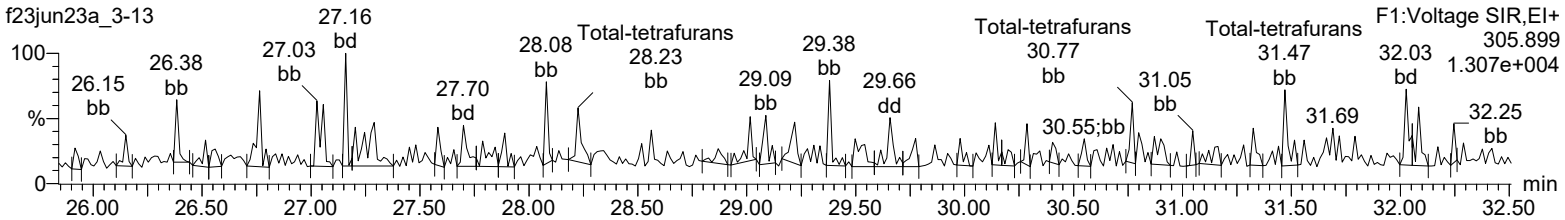
Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

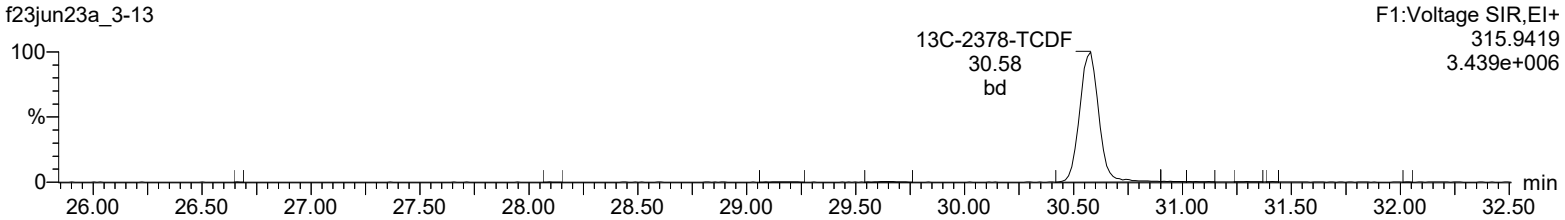
Total-tetrafurans



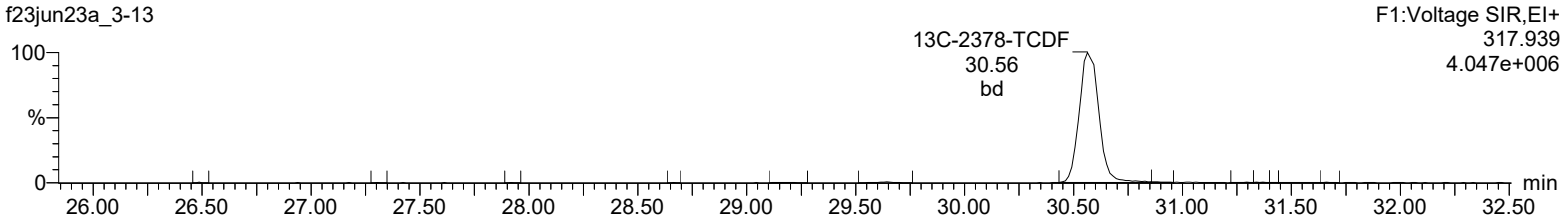
Total-tetrafurans



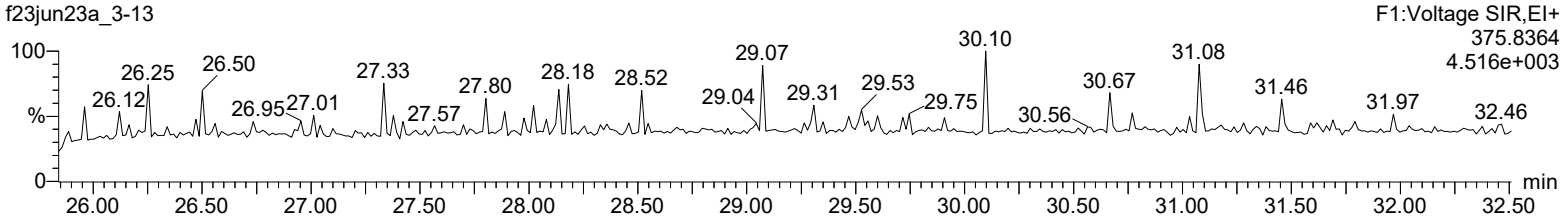
13C-2378-TCDF



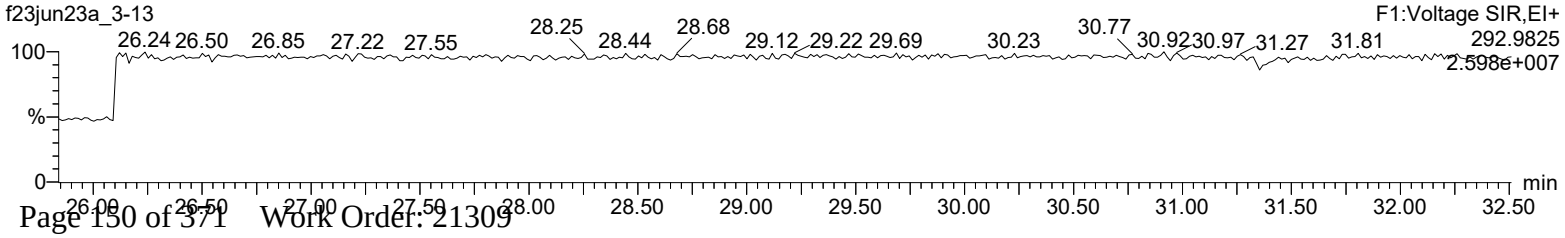
13C-2378-TCDF



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

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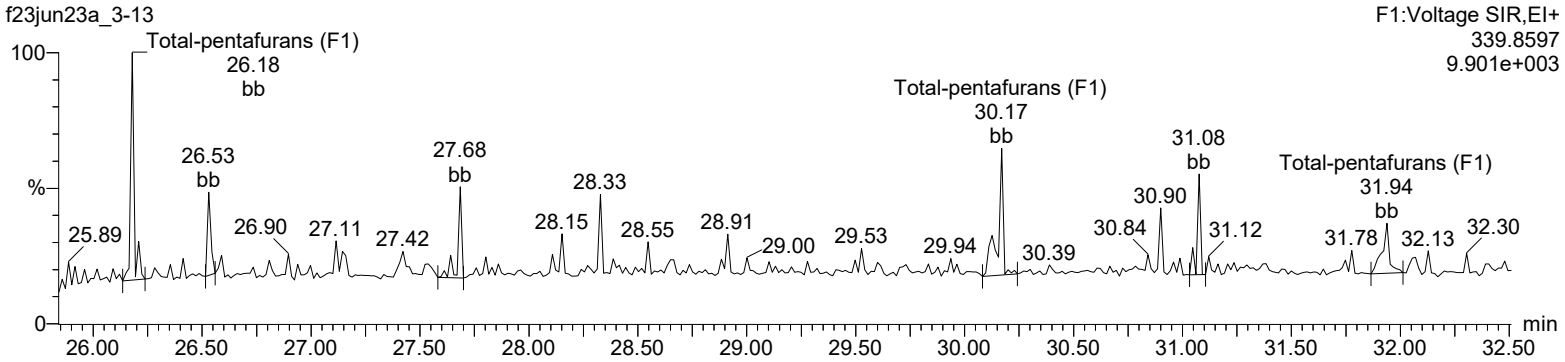
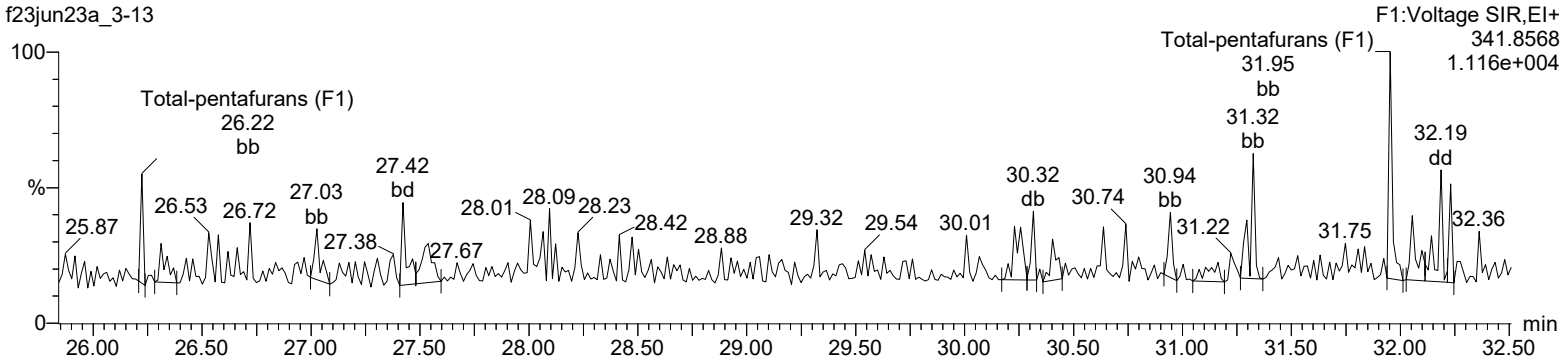
Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

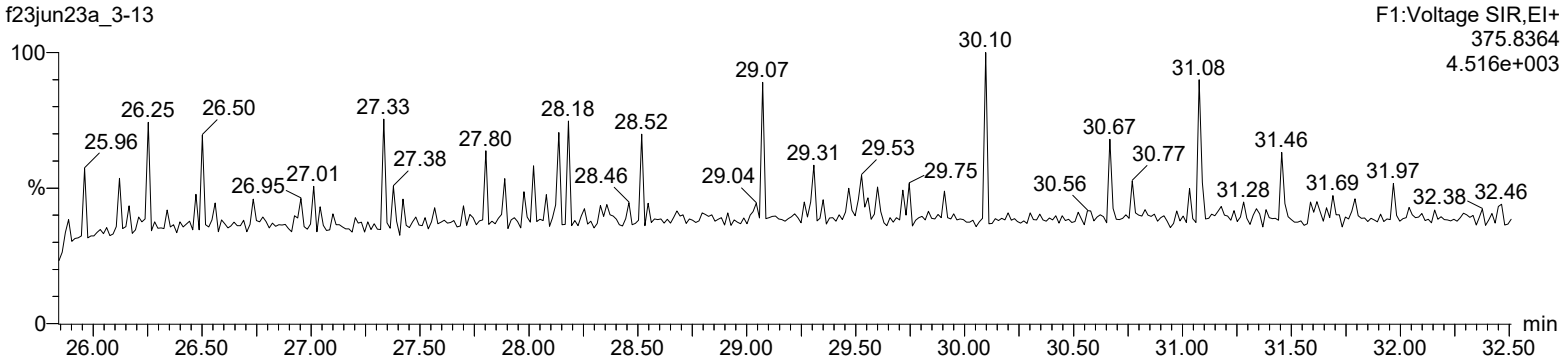
Total-pentafurans (F1)



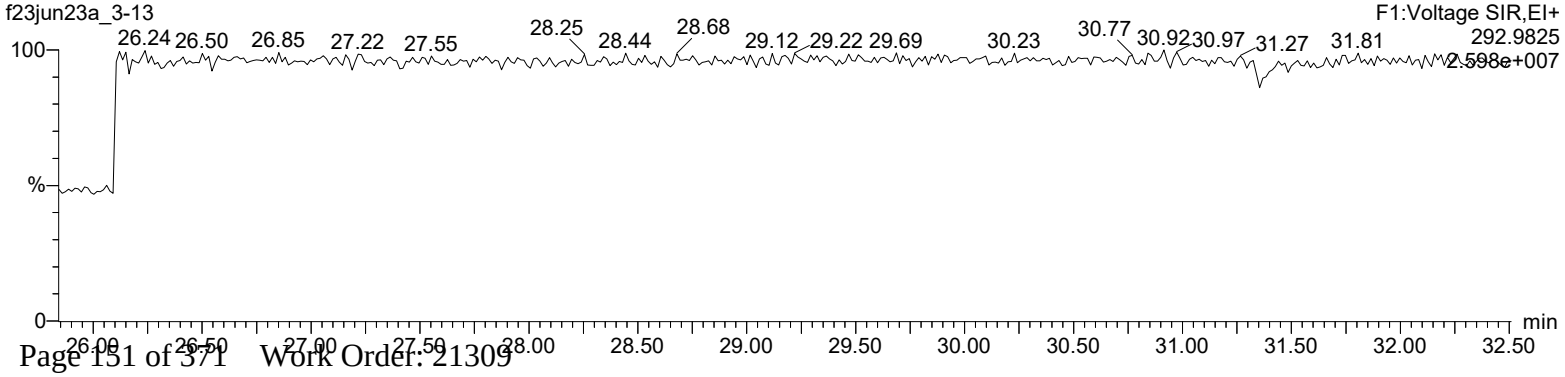
Total-pentafurans (F1)



HxDPE



Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

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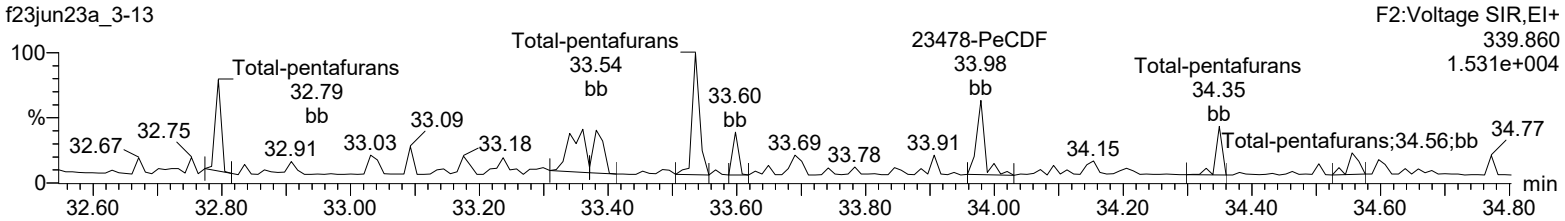
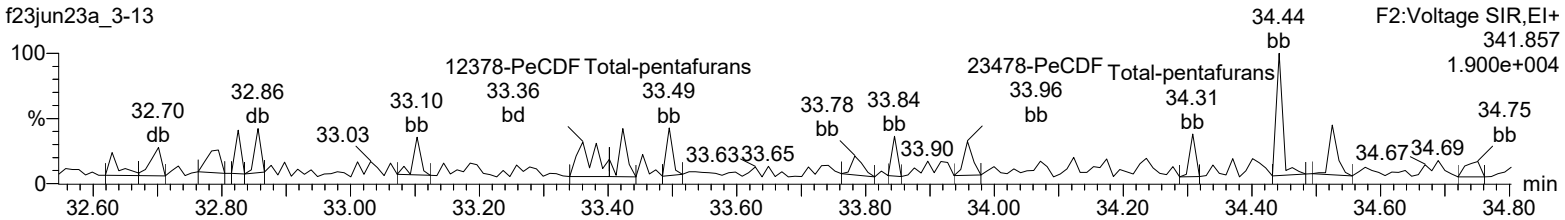
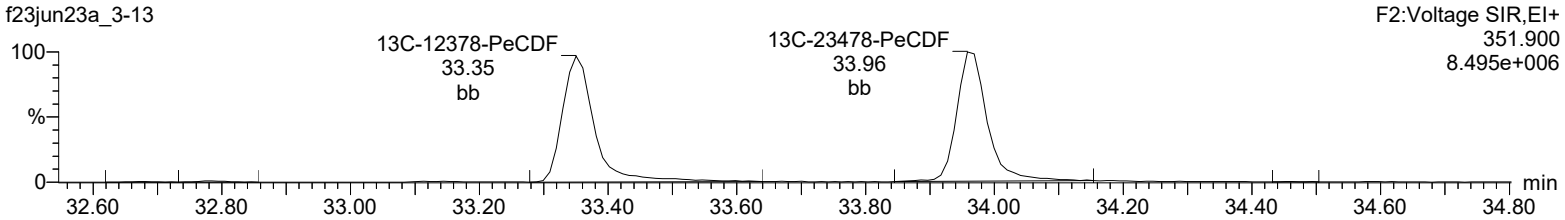
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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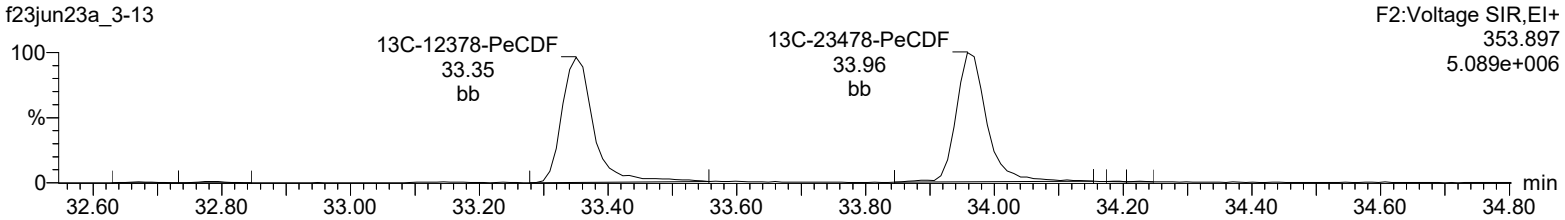
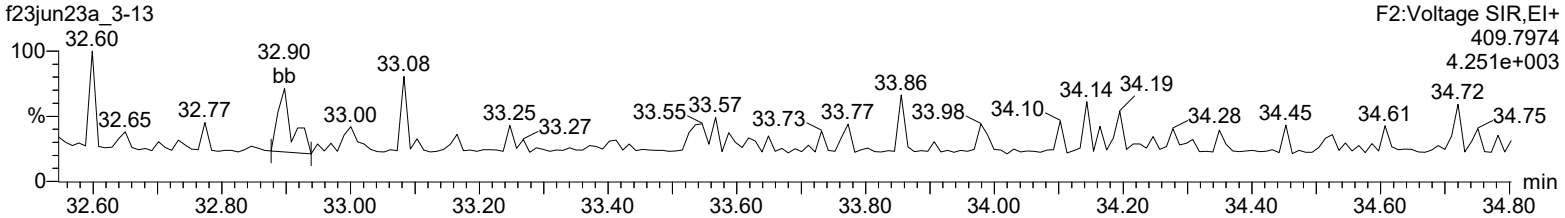
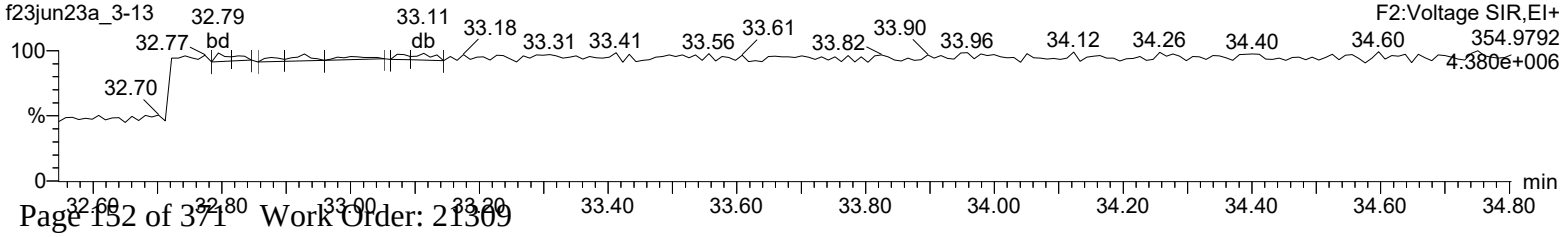


HpDPE



Lock Mass F2



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

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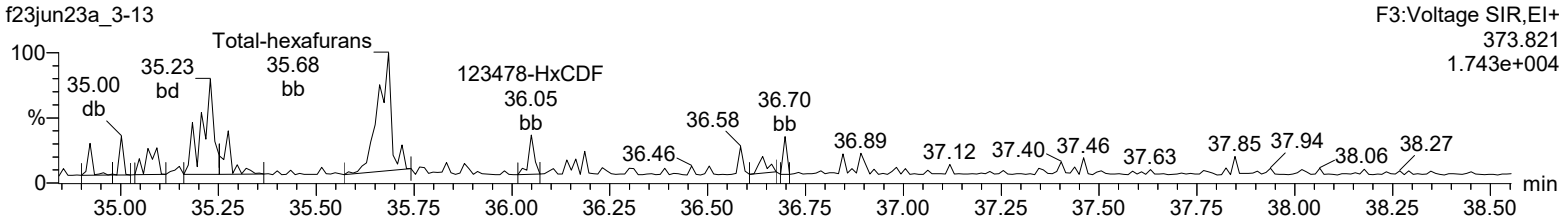
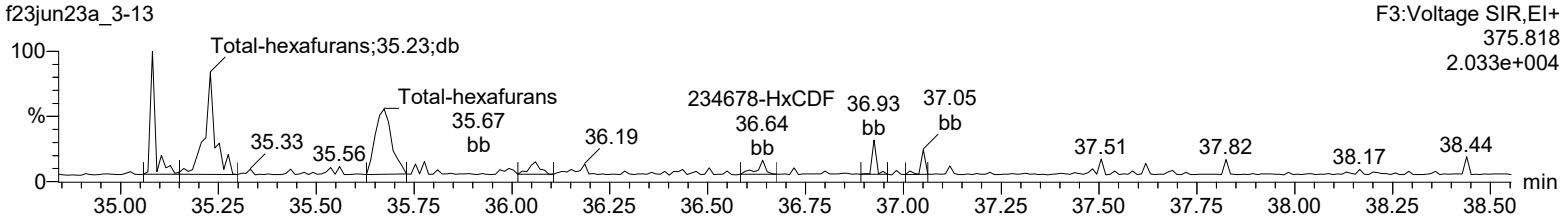
Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

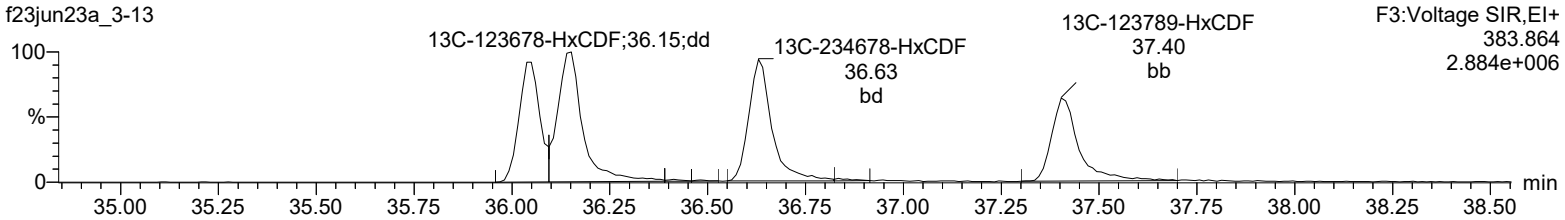
Total-hexafurans



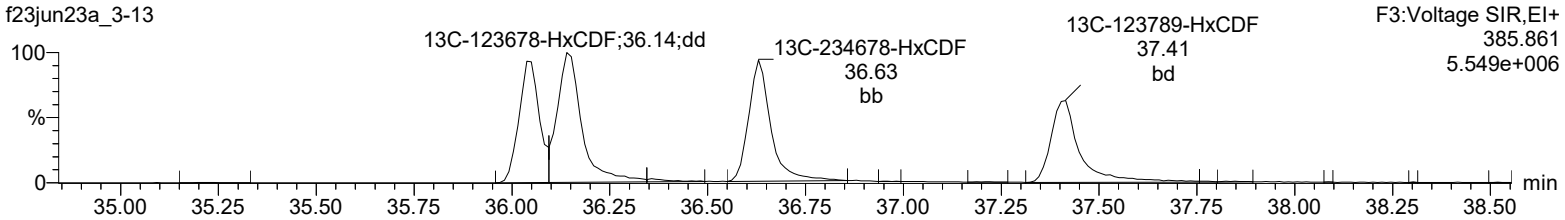
Total-hexafurans



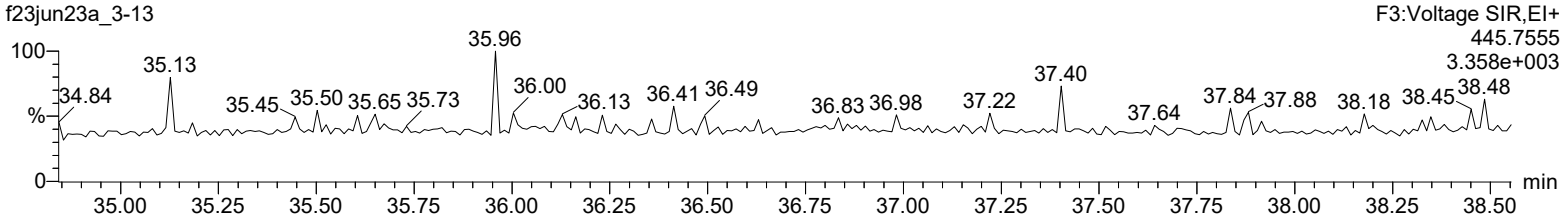
13C-123478-HxCDF



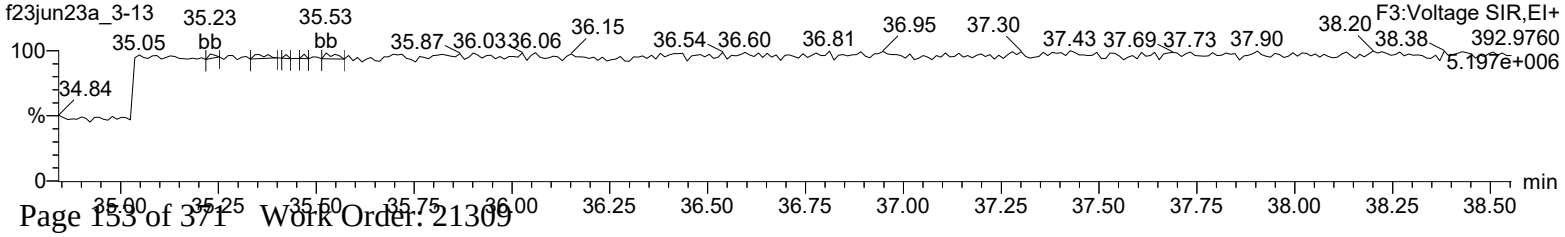
13C-123478-HxCDF



OcDPE



Lock Mass F3



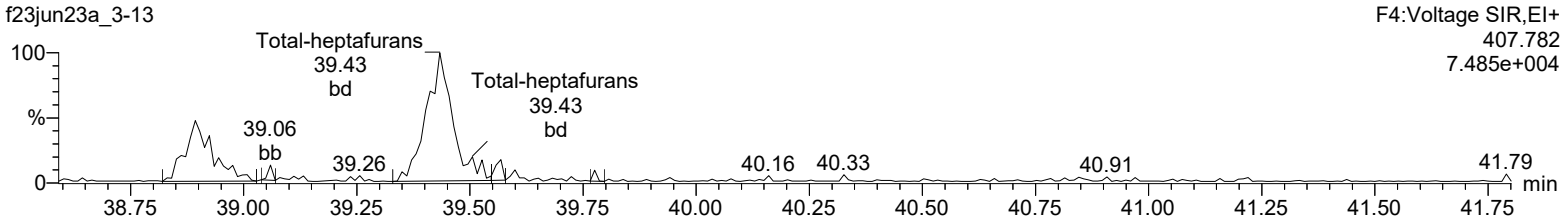
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

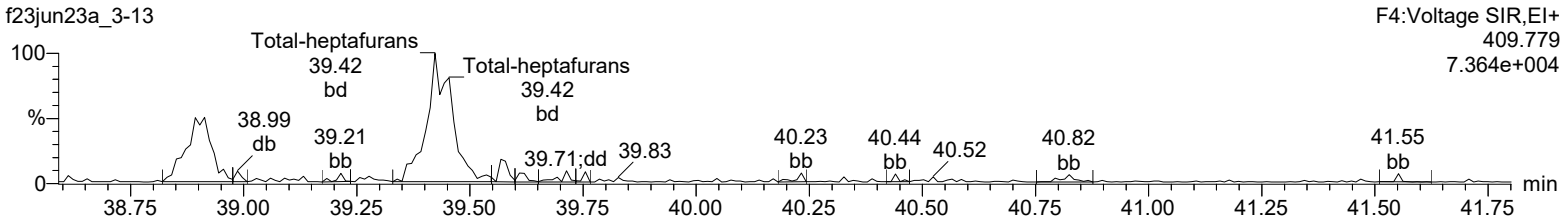
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

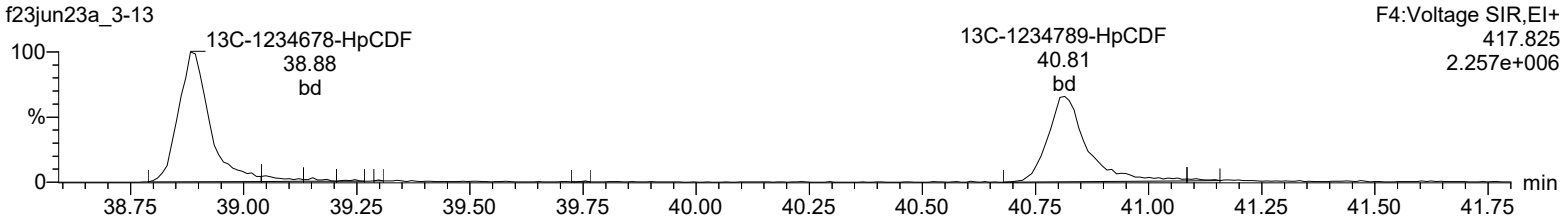
Total-heptafurans



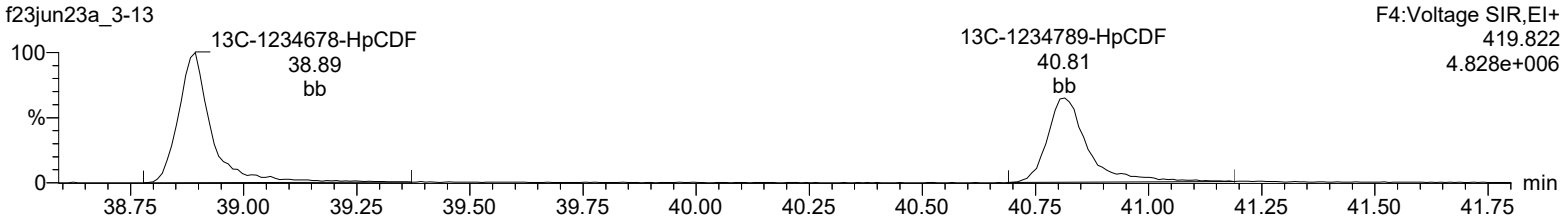
Total-heptafurans



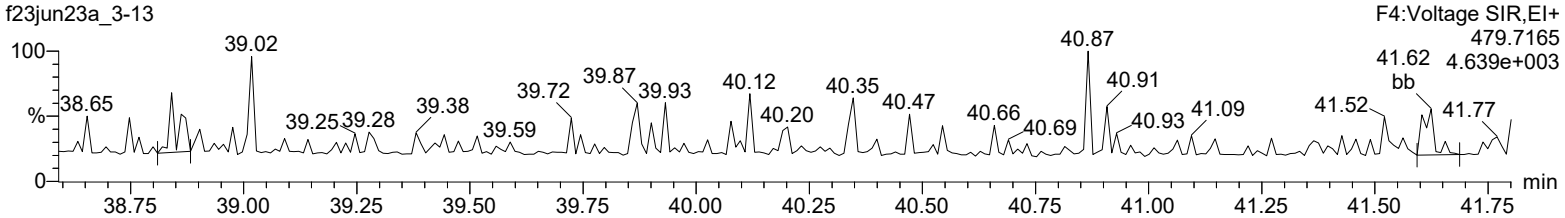
13C-1234678-HpCDF



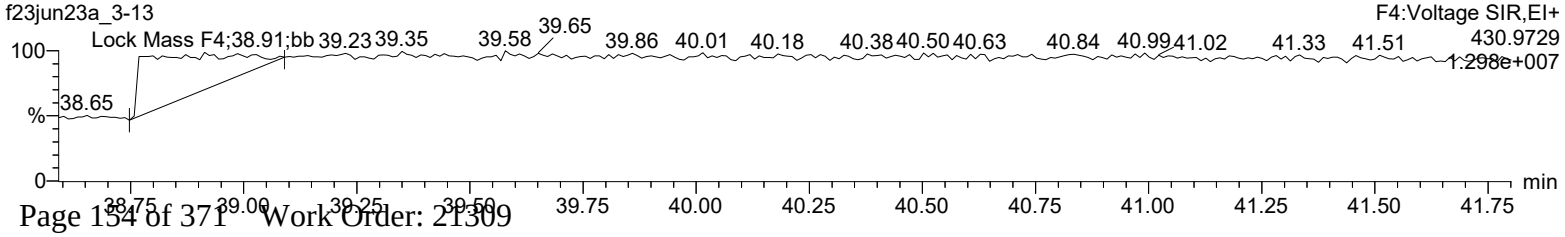
13C-1234678-HpCDF



NoDPE



Lock Mass F4



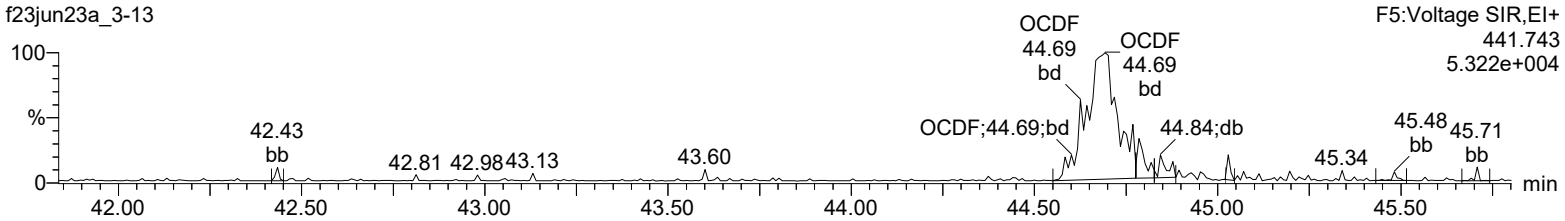
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

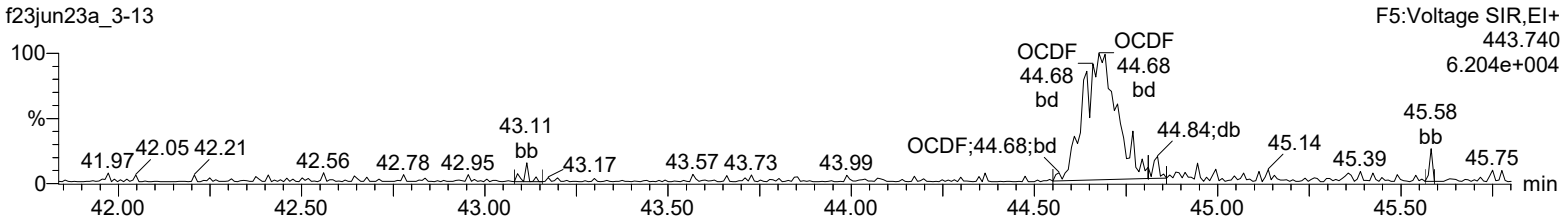
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-13, Date: 24-Jun-2023, Time: 18:34:41, ID: 21309005-1, Description: 52698, Job: HMS1613_1L, Task: HRP722_2, User: MW1

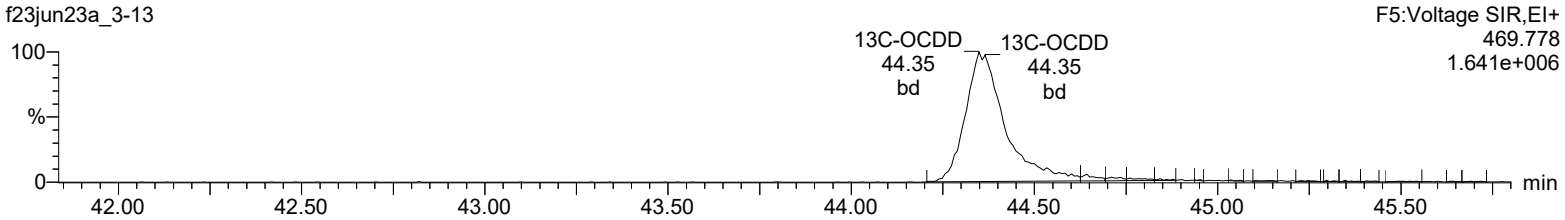
OCDF



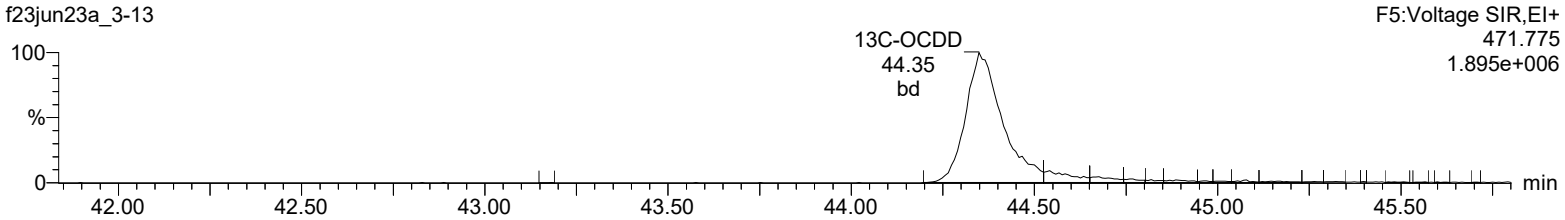
OCDF



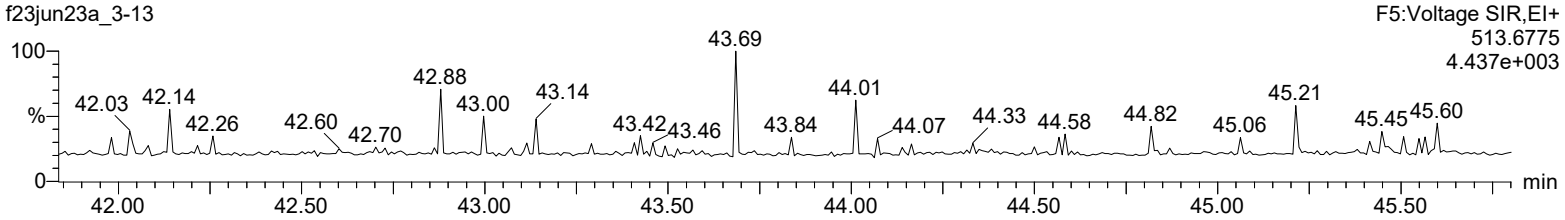
13C-OCDD



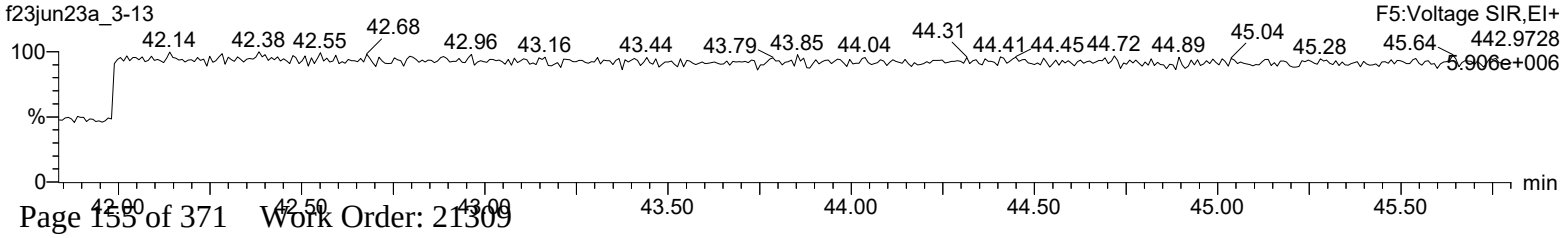
13C-OCDD



DeDPE



Lock Mass F5



Quality Control Raw Data

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034325**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**MB for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 10:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-3**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	3.52	pg/L	3.52	5.00
40321-76-4	1,2,3,7,8-PeCDD	U	2.92	pg/L	2.92	25.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	6.74	pg/L	6.74	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	6.96	pg/L	6.96	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	6.86	pg/L	6.86	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	9.06	pg/L	9.06	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	J	12.1	pg/L	8.88	100
51207-31-9	2,3,7,8-TCDF	U	2.84	pg/L	2.84	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	2.46	pg/L	2.46	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	2.38	pg/L	2.38	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.38	pg/L	1.38	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.39	pg/L	1.39	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.49	pg/L	1.49	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.64	pg/L	2.64	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	2.50	pg/L	2.50	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.44	pg/L	3.44	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.96	pg/L	4.96	100
41903-57-5	Total Tetrachlorodibenzo-p-dioxin	U	3.52	pg/L	3.52	10.0
36088-22-9	Total Pentachlorodibenzo-p-dioxin	U	2.92	pg/L	2.92	50.0
34465-46-8	Total Hexachlorodibenzo-p-dioxin	U	6.74	pg/L	6.74	50.0
TCDF	Total Tetrachlorodibenzofuran	U	2.84	pg/L	2.84	10.0
37871-00-4	Total Heptachlorodibenzo-p-dioxin	U	9.06	pg/L	9.06	50.0
30402-15-4	Total Pentachlorodibenzofuran	U	2.38	pg/L	2.38	50.0
55684-94-1	Total Hexachlorodibenzofuran	U	1.38	pg/L	1.38	50.0
38998-75-3	Total Heptachlorodibenzofuran	U	2.50	pg/L	2.50	50.0
TEQ	TEQ WHO2005 ND=0		0.00362	pg/L		
3333-30-1	TEQ WHO2005 ND=0.5		5.21	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1070	2000	pg/L	53.5	(25%-164%)
13C-1,2,3,7,8-PeCDD		1130	2000	pg/L	56.5	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1240	2000	pg/L	62.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1180	2000	pg/L	58.8	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1160	2000	pg/L	57.8	(23%-140%)
13C-OCDD		2000	4000	pg/L	50.0	(17%-157%)
13C-2,3,7,8-TCDF		1050	2000	pg/L	52.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		985	2000	pg/L	49.2	(24%-185%)
13C-2,3,4,7,8-PeCDF		1090	2000	pg/L	54.5	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1220	2000	pg/L	61.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1210	2000	pg/L	60.7	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1250	2000	pg/L	62.4	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1060	2000	pg/L	53.2	(29%-147%)

Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034325**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**MB for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 10:25**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-3**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1120	2000	pg/L	55.8	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1220	2000	pg/L	60.8	(26%-138%)
37Cl-2,3,7,8-TCDD		147	200	pg/L	73.7	(35%-197%)

Comments:

J **Value is estimated**

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD							NO		0.176		904			508			
2	12378-PeCDD							NO		0.146		868			448			
3	123478-HxCDD							NO		0.337		1509			644			
4	123678-HxCDD							NO		0.348		1509			644			
5	123789-HxCDD							NO		0.343		1509			644			
6	1234678-HpCDD							NO		0.453		995			919			
7	OCDD	1.57e2	1.84e2	3.41e2	44.41	1.001	0.85	NO	0.604	0.444	3.12e3	460	6.8	3.27e3	504	6.5	MM	MM
8	2378-TCDF							NO		0.142		669			943			
9	12378-PeCDF							NO		0.123		873			1685			
10	23478-PeCDF	8.59e1	1.17e2	2.02e2	33.96	1.000	0.74	YES	0.076	0.119	1.92e3	873	2.2	4.22e3	1685	2.5	MM	bb
11	123478-HxCDF							NO		0.0692		619			333			
12	123678-HxCDF							NO		0.0695		619			333			
13	234678-HxCDF							NO		0.0746		619			333			
14	123789-HxCDF							NO		0.132		619			333			
15	1234678-HpCDF							NO		0.125		932			344			
16	1234789-HpCDF							NO		0.172		932			344			
17	OCDF							NO		0.248		253			597			
18	13C-2378-TCDD	5.85e4	7.41e4	1.33e5	31.28	1.017	0.79	NO	53.469	0.381	8.05e5	2672	301.2	1.11e6	2032	547.1	bb	bd
19	13C-12378-PeCDD	6.23e4	3.77e4	1.00e5	34.15	1.110	1.65	NO	56.501	0.456	1.20e6	1748	687.9	7.54e5	2274	331.6	bd	bd
20	13C-123478-HxCDD	4.64e4	3.59e4	8.22e4	36.76	0.991	1.29	NO	62.121	1.44	8.40e5	5580	150.6	6.53e5	4888	133.5	bd	bd
21	13C-123678-HxCDD	5.23e4	4.20e4	9.43e4	36.85	0.994	1.25	NO	58.773	1.19	8.06e5	5580	144.5	6.19e5	4888	126.7	dd	dd
22	13C-1234678-HpCDD	3.78e4	3.46e4	7.23e4	40.14	1.082	1.09	NO	57.820	1.25	4.49e5	4410	101.8	4.13e5	4186	98.7	bd	bd
23	13C-OCDD	4.72e4	5.48e4	1.02e5	44.35	1.196	0.86	NO	100.034	1.09	4.54e5	2238	202.8	5.00e5	3890	128.7	bd	bd
24	13C-2378-TCDF	9.12e4	1.08e5	1.99e5	30.56	0.993	0.85	NO	52.630	0.179	9.65e5	1856	520.3	1.21e6	1515	796.8	bd	bb
25	13C-12378-PeCDF	1.13e5	7.09e4	1.84e5	33.35	1.084	1.60	NO	49.242	0.989	2.52e6	11632	216.3	1.38e6	6819	202.0	bb	bd
26	13C-23478-PeCDF	1.19e5	7.34e4	1.92e5	33.96	1.104	1.62	NO	54.486	1.05	2.39e6	11632	205.4	1.48e6	6819	216.9	bb	dd
27	13C-123478-HxCDF	4.25e4	8.04e4	1.23e5	36.04	0.972	0.53	NO	60.950	1.43	8.39e5	7767	108.0	1.49e6	8102	183.4	bd	bd
28	13C-123678-HxCDF	5.15e4	1.00e5	1.52e5	36.14	0.975	0.51	NO	60.707	1.15	8.44e5	7767	108.7	1.58e6	8102	195.3	dd	db
29	13C-234678-HxCDF	4.51e4	8.53e4	1.30e5	36.63	0.988	0.53	NO	62.400	1.38	7.77e5	7767	100.0	1.48e6	8102	182.6	bd	bb
30	13C-123789-HxCDF	3.33e4	6.56e4	9.89e4	37.40	1.009	0.51	NO	53.224	1.55	4.67e5	7767	60.1	9.56e5	8102	118.0	bd	dd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	4.20e4	9.20e4	1.34e5	38.88	1.048	0.46	NO	55.803	1.01	5.77e5	7111	81.1	1.17e6	6180	189.4	bd	bd
32	13C-1234789-HpCDF	3.51e4	7.86e4	1.14e5	40.81	1.101	0.45	NO	60.788	1.29	4.21e5	7111	59.2	8.37e5	6180	135.5	bd	bd
33	13C-1234-TCDD	9.86e4	1.19e5	2.18e5	30.77	0.000	0.83	NO	100.000	0.434	1.23e6	2672	459.9	1.51e6	2032	740.6	bb	bd
34	13C-123789-HxCDD	8.83e4	6.79e4	1.56e5	37.08	0.000	1.30	NO	100.000	1.22	1.22e6	5580	217.8	9.65e5	4888	197.5	dd	dd
35	37Cl-2378-TCDD	1.80e4		1.80e4	31.30	1.017			7.373	0.0974	2.92e5	1188	246.2				bb	

Reasons for Analyst Intervention

Name:f23jun23a_3-3, ID:12034325-1 MB, Description:

M	M2
7 OCDD 44.41 - AB	7 OCDD 44.41 - AB
10 23478-PeCDF 33.96 - AB	

Reason Codes assigned by SM1 on 28-JUN-23

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

TD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

PD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPD

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

TF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	Total-tetrafurans	5.47e1	8.95e1	1.44e2	32.04	0.61	YES	0.054	0.142	2.78e3	669	4.2	3.79e3	943	4.0	bb	bb

PF1

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

Quantify Totals Report MassLynx 4.2 SCN992
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Wednesday, June 28, 2023 10:22:52 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:23:22 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

PF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	23478-PeCDF	8.59e1	1.17e2	2.02e2	33.96	0.74	YES	0.076	0.119	1.92e3	873	2.2	4.22e3	1685	2.5	MM	bb

HF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

HPF

	Name	Ion1Area	Ion2Area	Response	RT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1																	

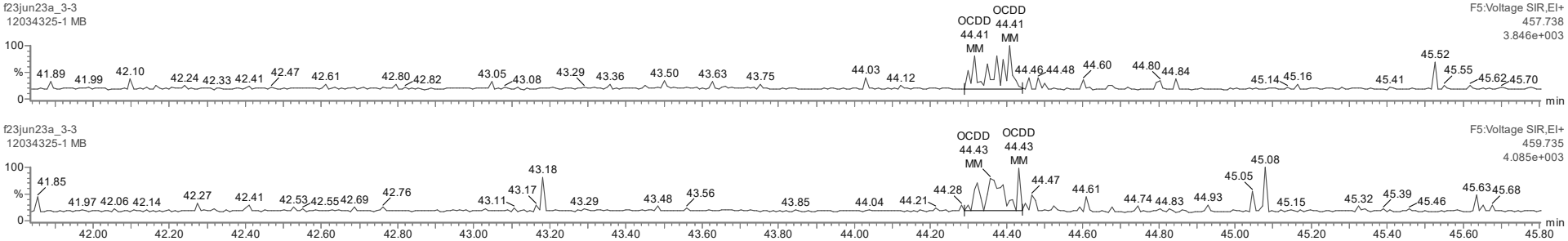
Reasons for Analyst Intervention

Name:f23jun23a_3-3, ID:12034325-1 MB, Description:

M	M2
1 23478-PeCDF 33.96 - AB	

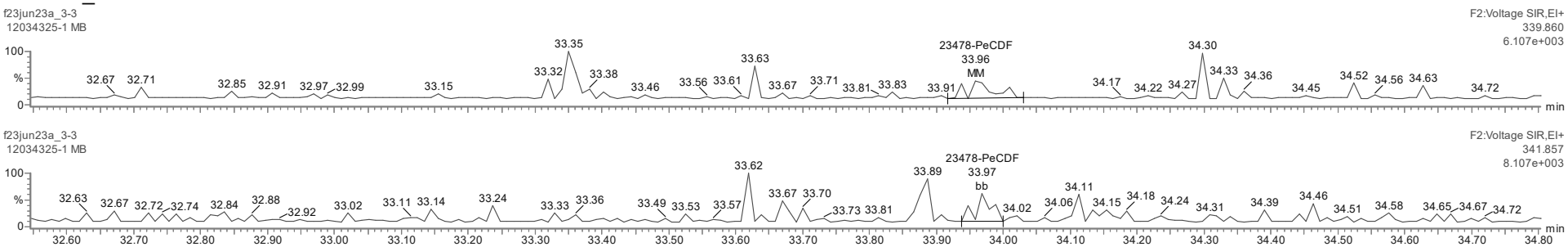
Reason Codes assigned by SM1 on 28-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/28/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/28/2023 06/28/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

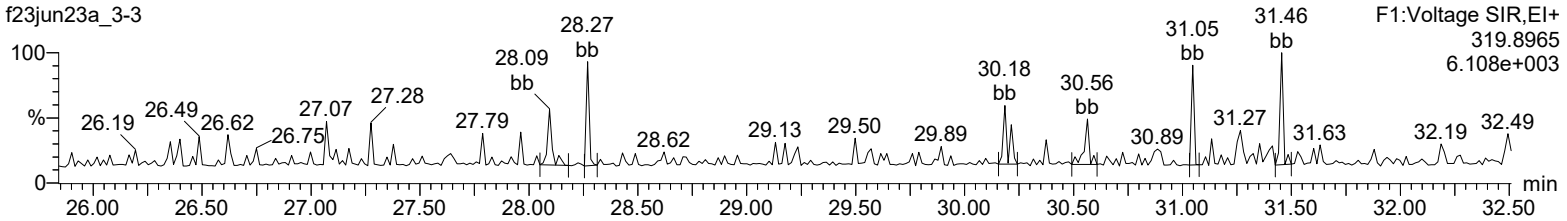
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

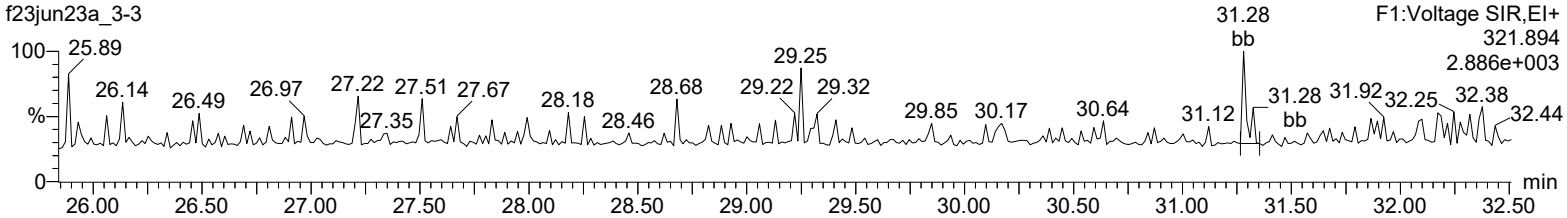
06/28/2023

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

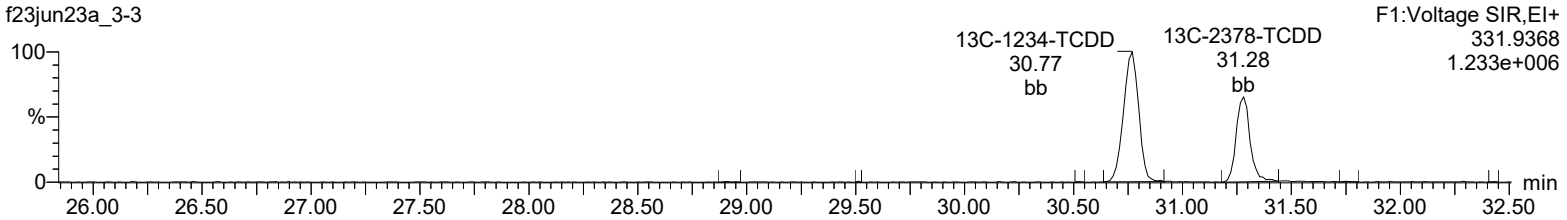
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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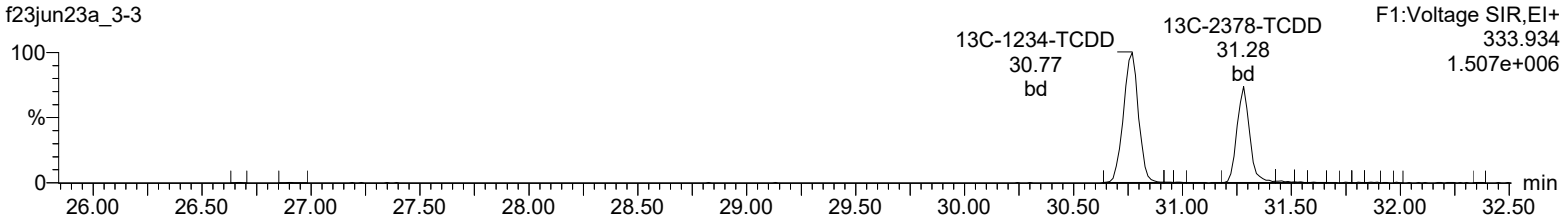

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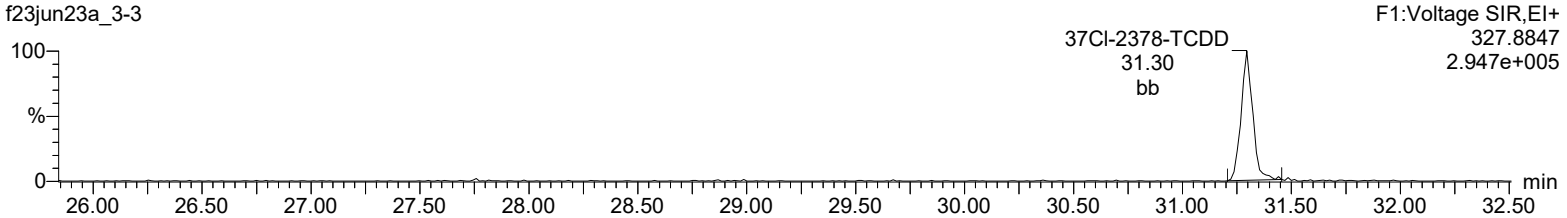
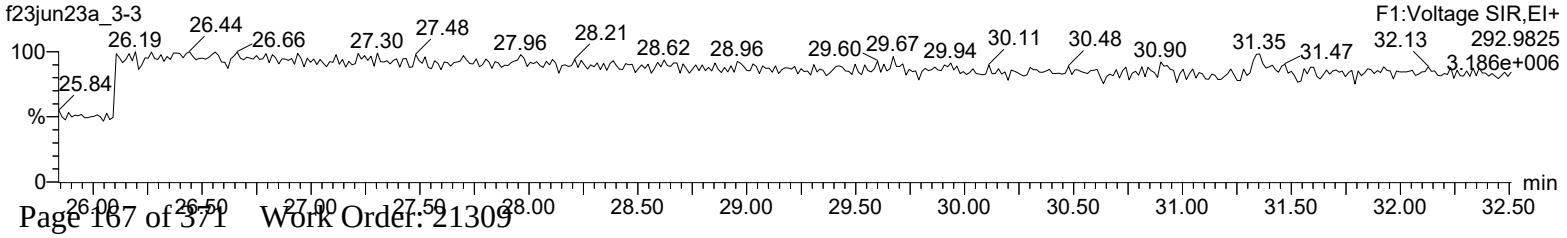


Lock Mass F1



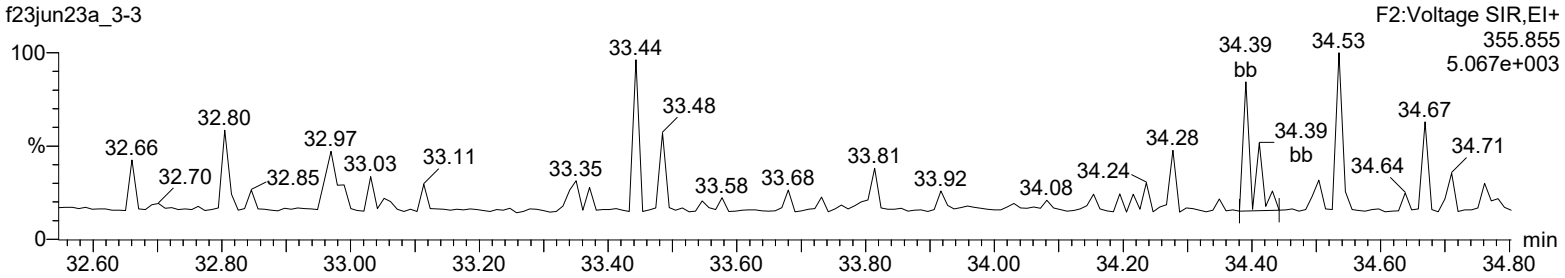
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

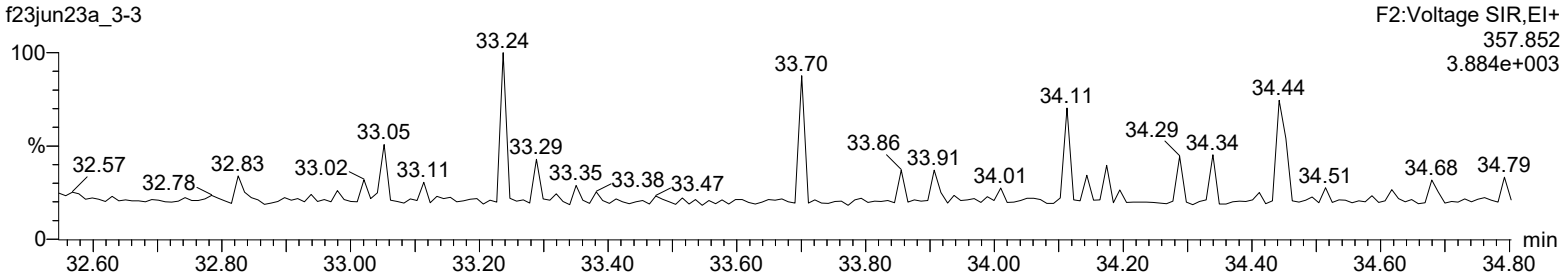
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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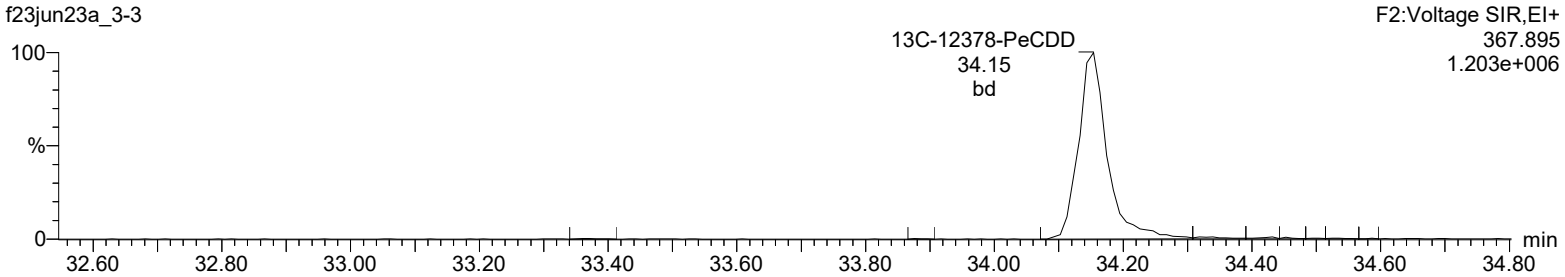

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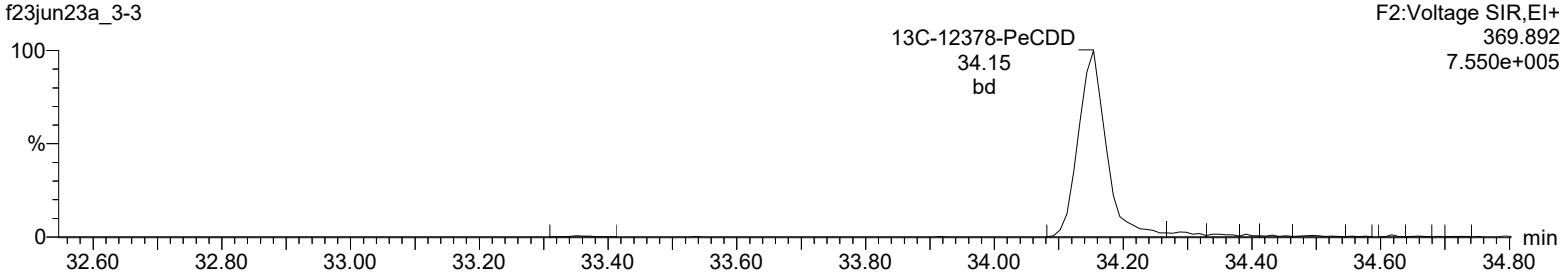
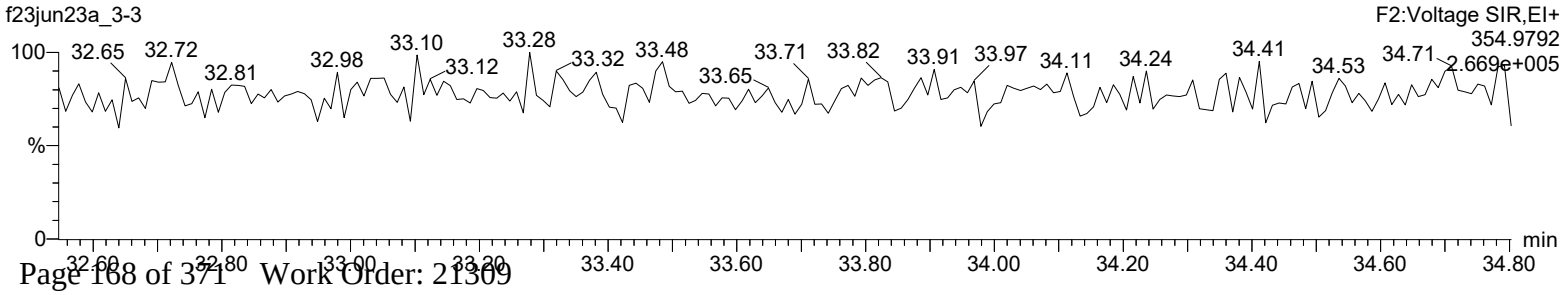


Lock Mass F2



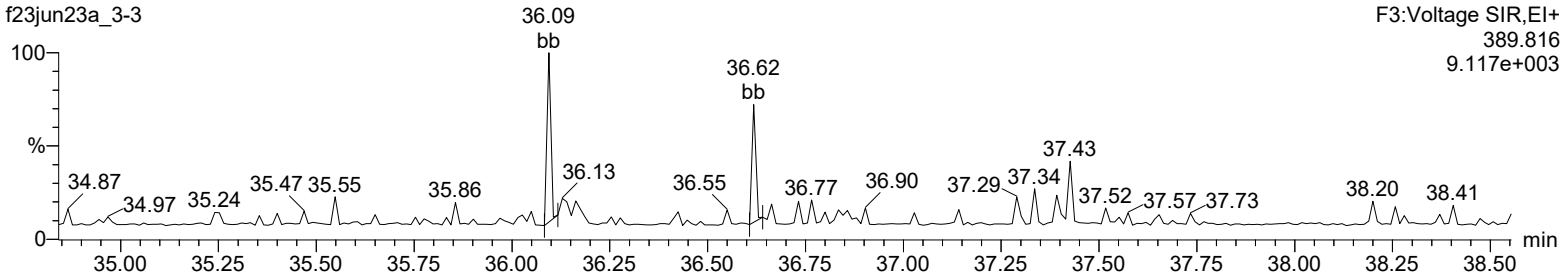
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

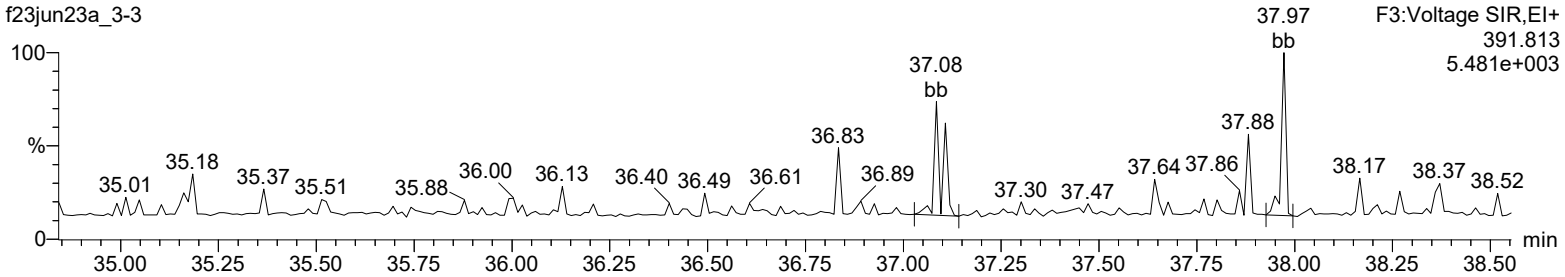
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

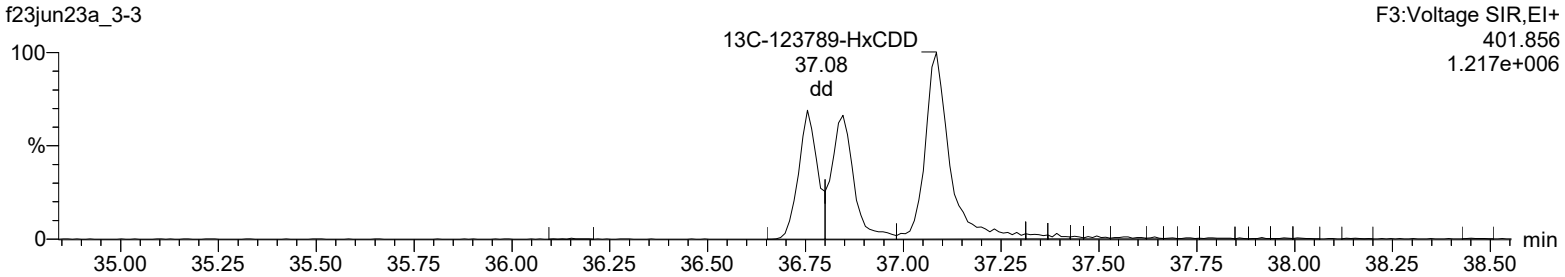
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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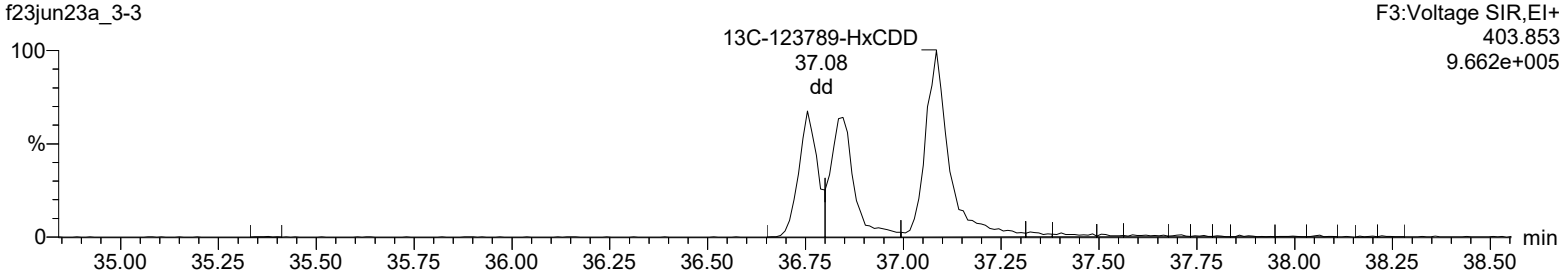
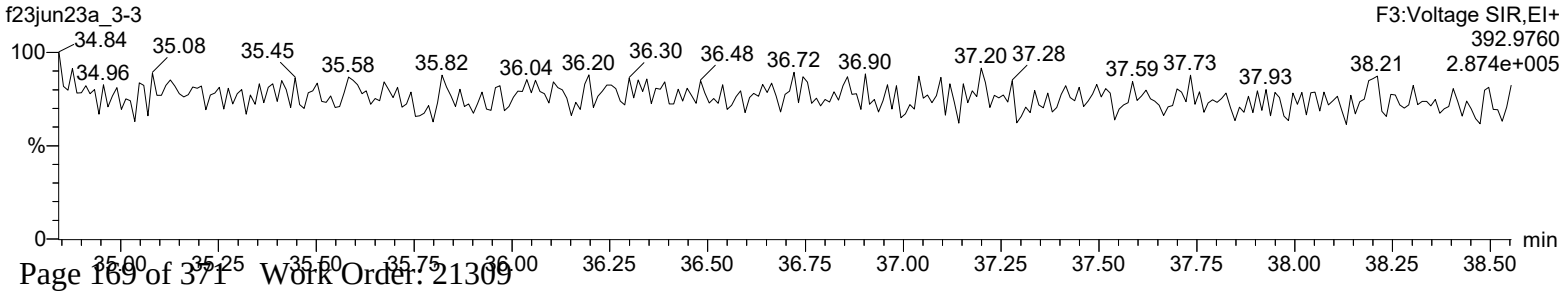


Lock Mass F3



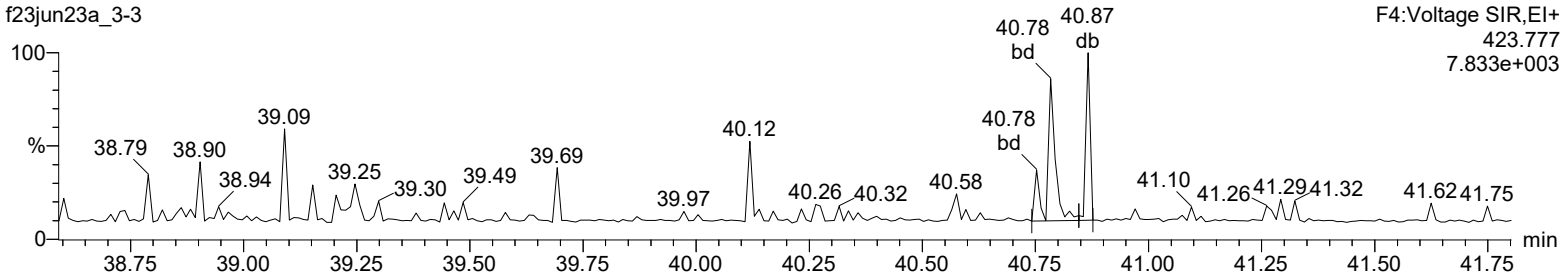
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

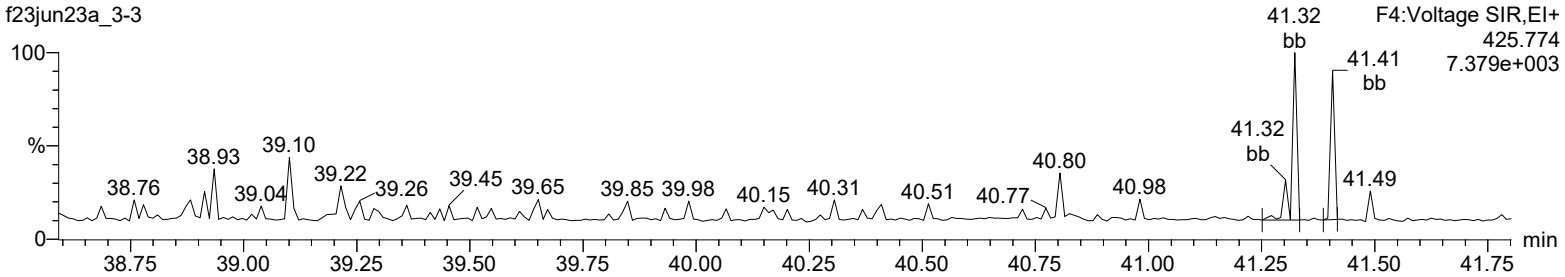
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

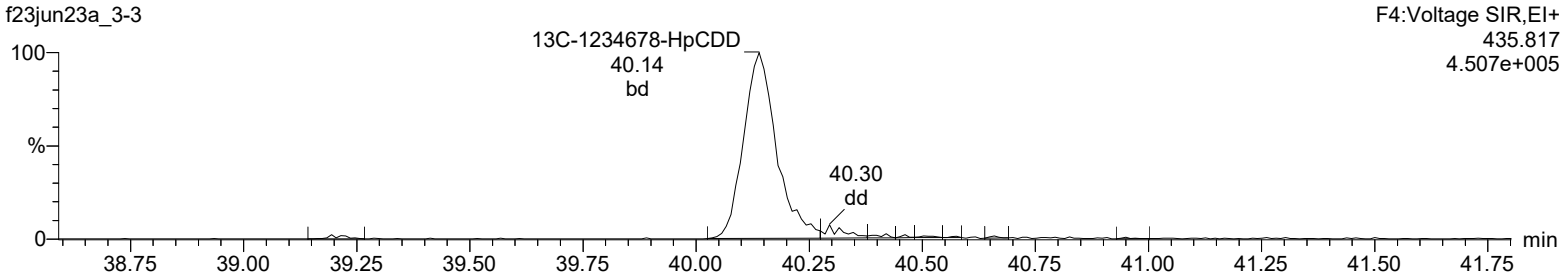
Total-heptadioxins



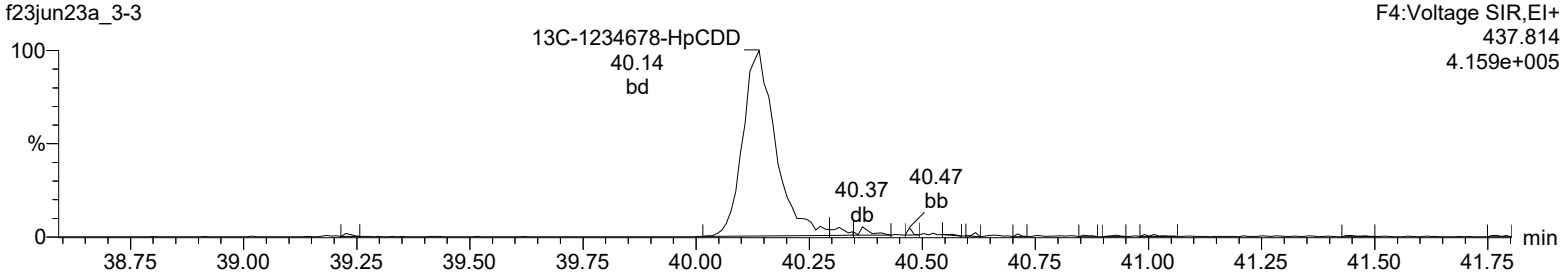
Total-heptadioxins



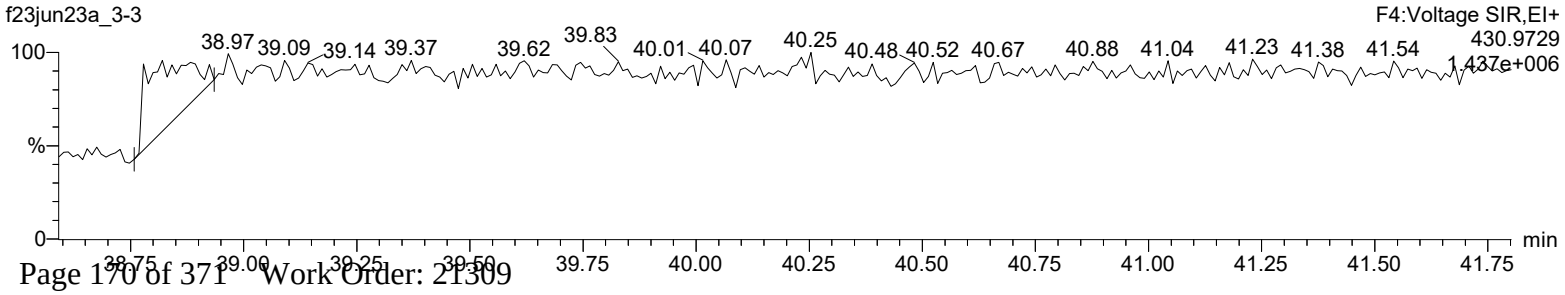
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



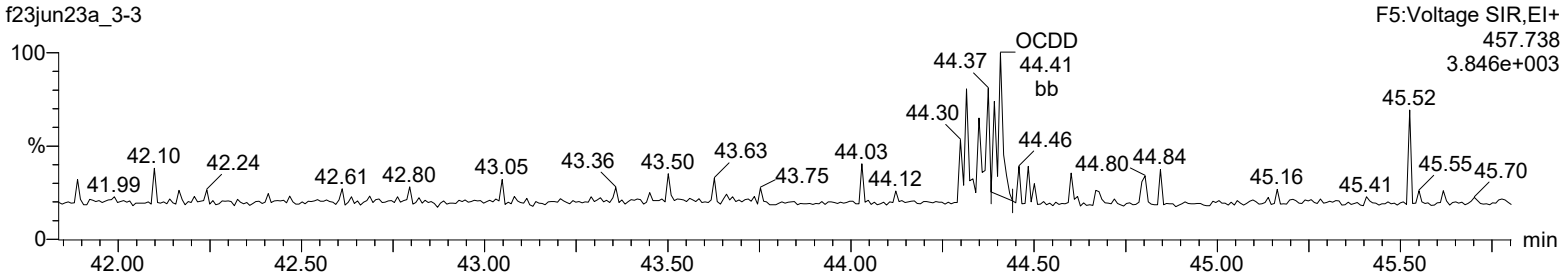
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

OCDD



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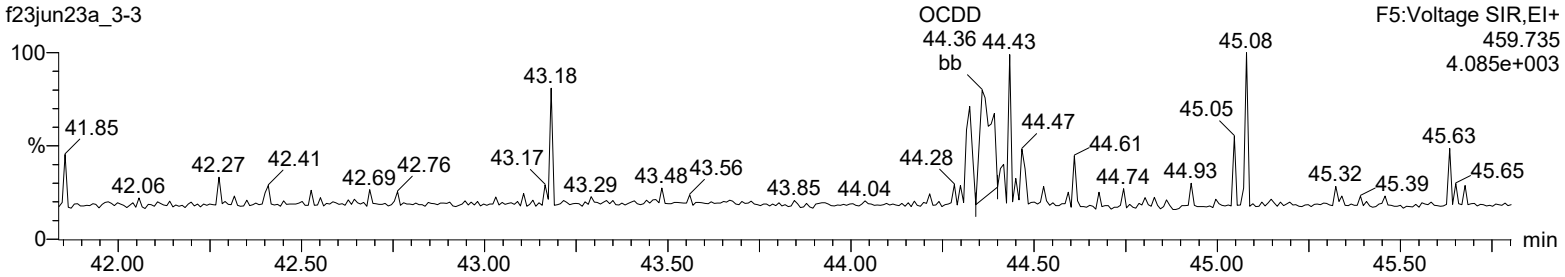

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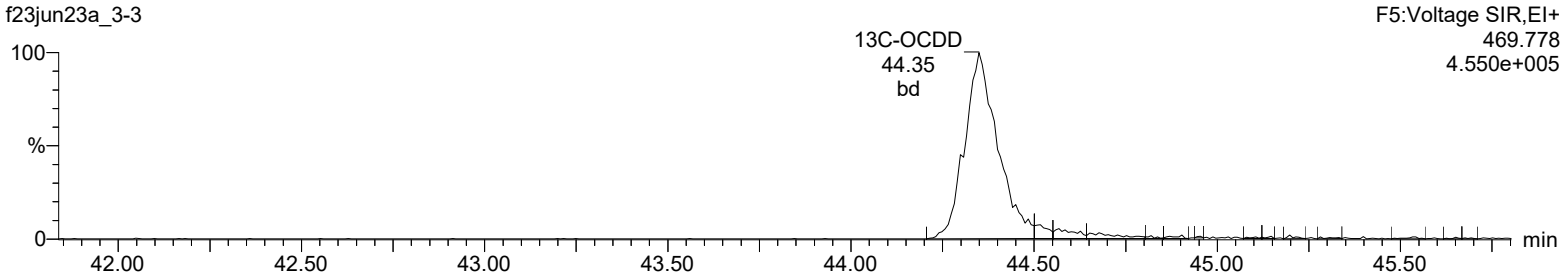

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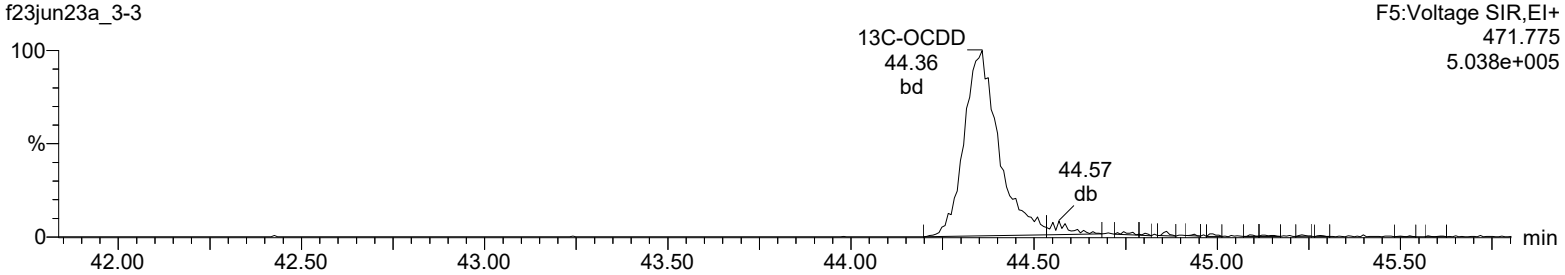
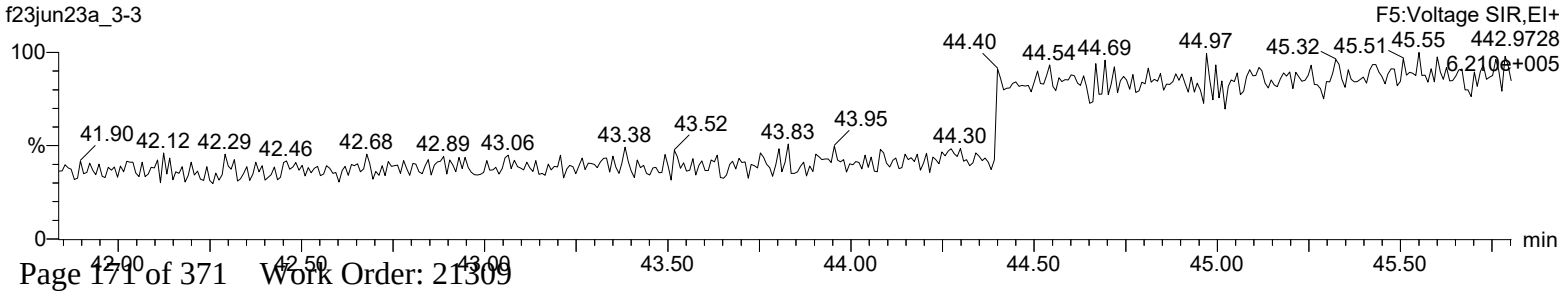


Lock Mass F5



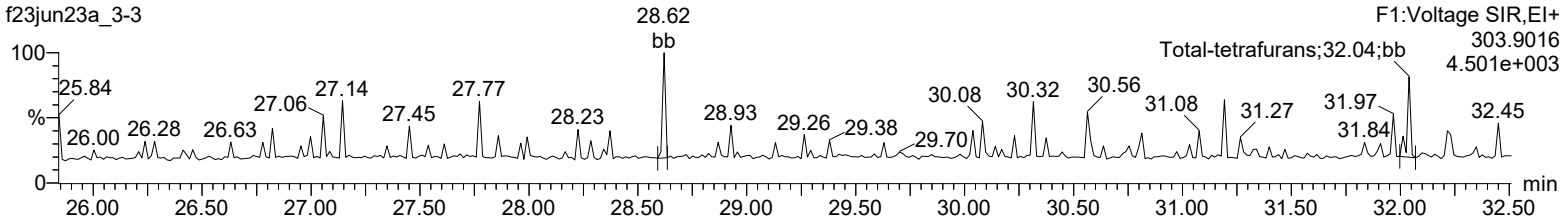
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

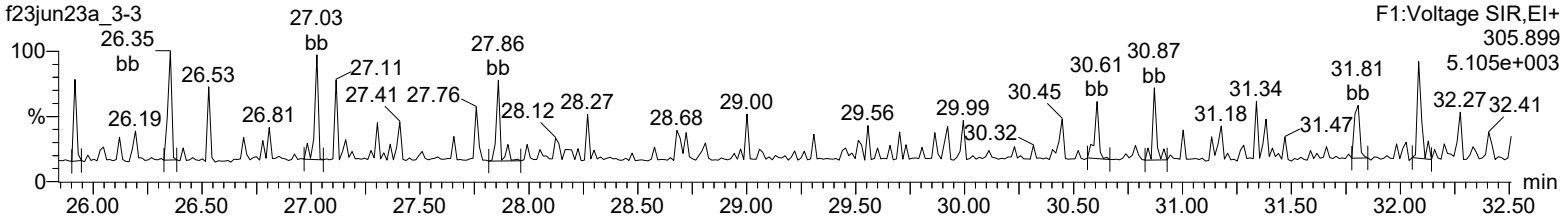
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

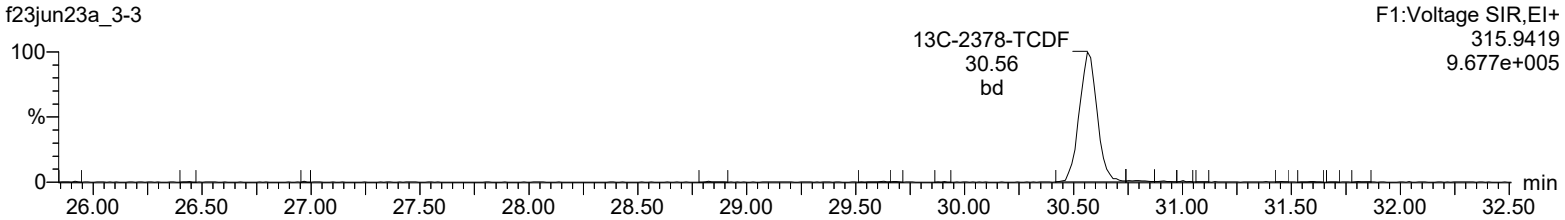
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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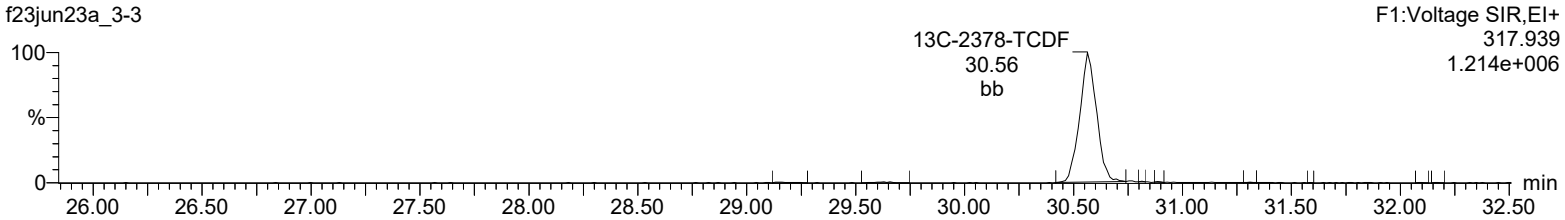
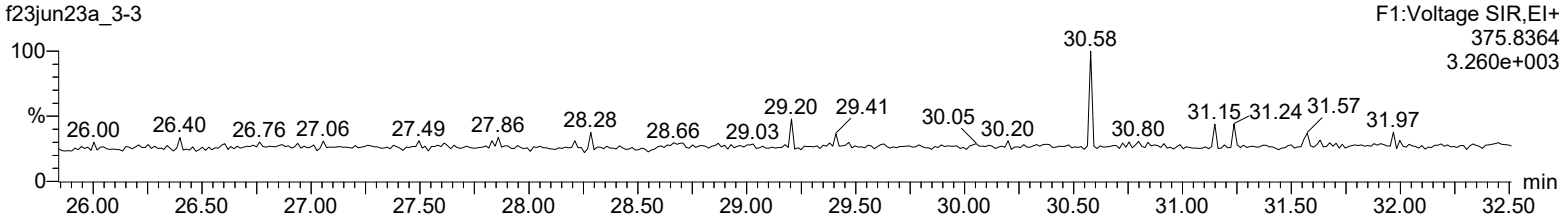
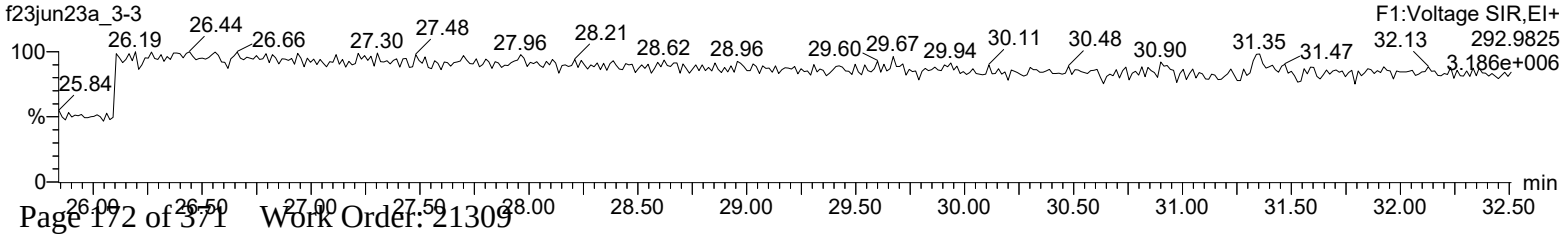


HxDPE



Lock Mass F1



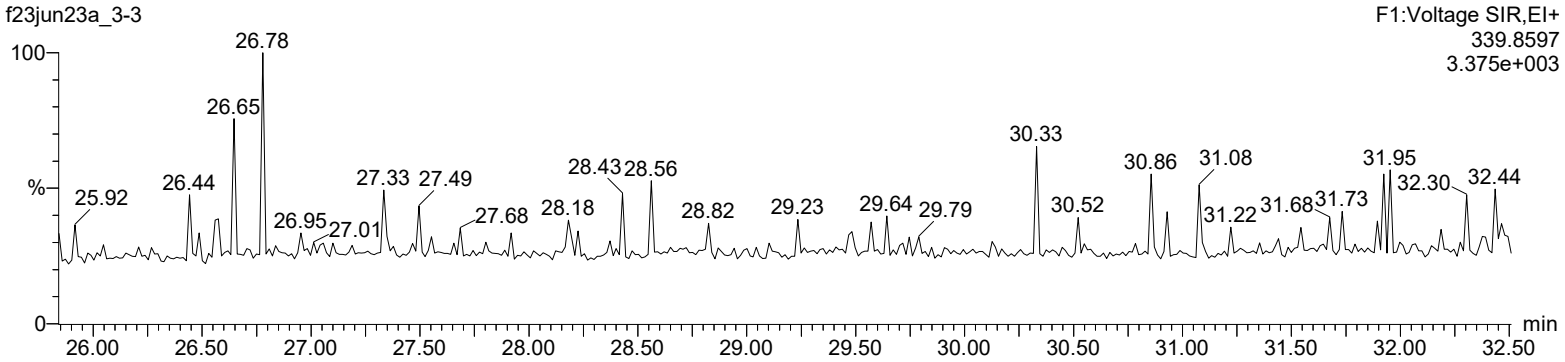
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

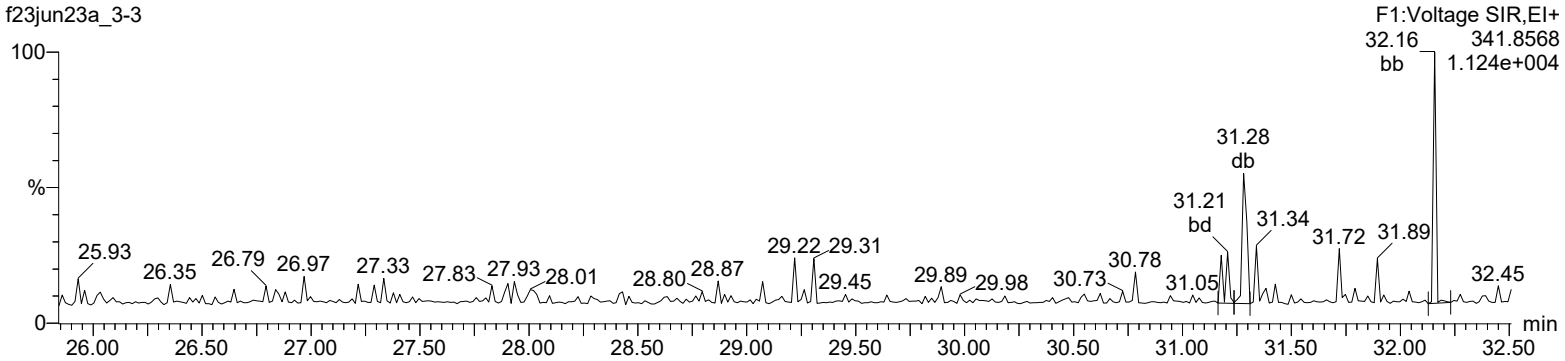
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

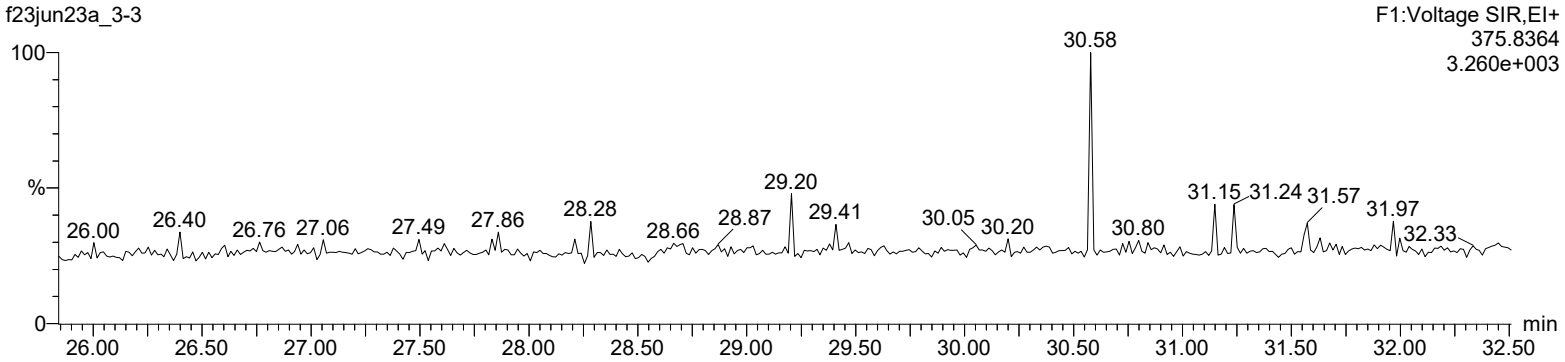
Total-pentafurans (F1)



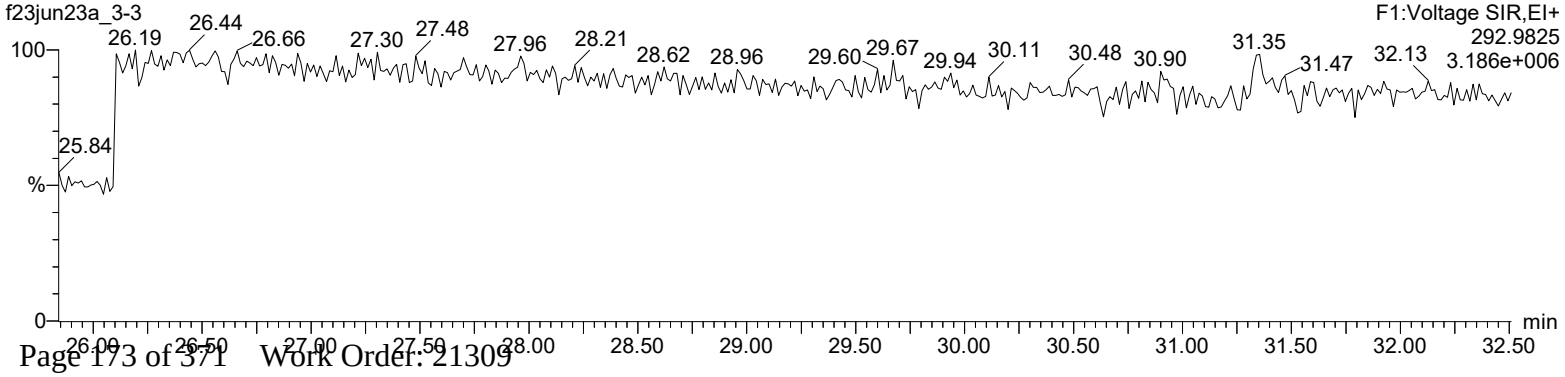
Total-pentafurans (F1)



HxDPE



Lock Mass F1



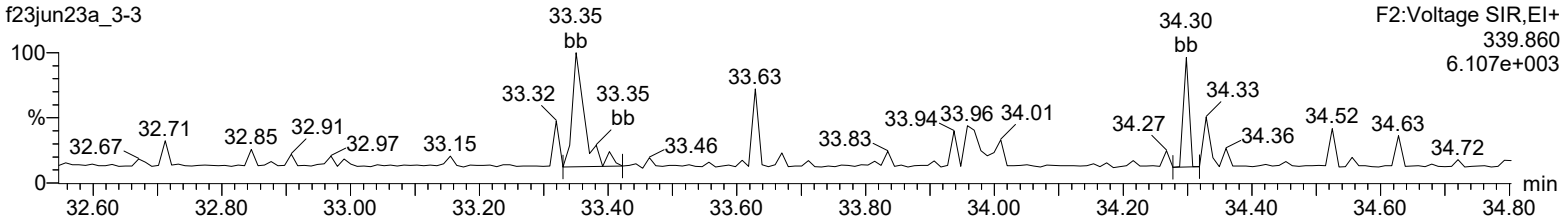
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

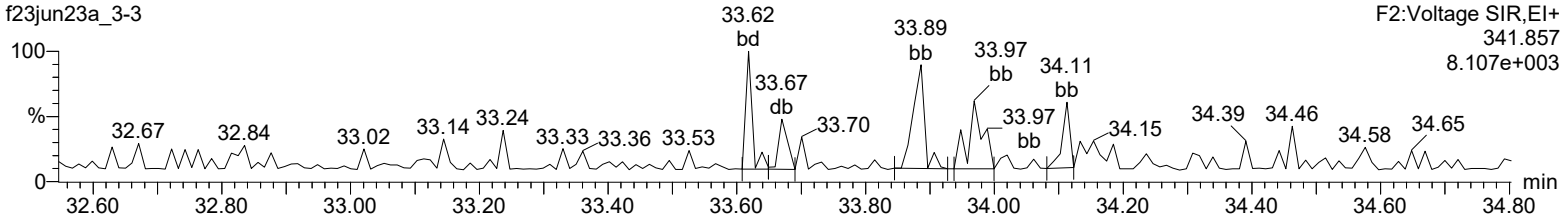
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

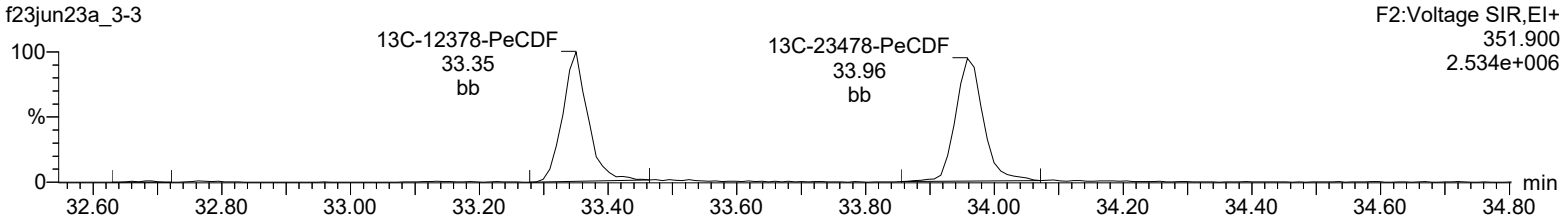
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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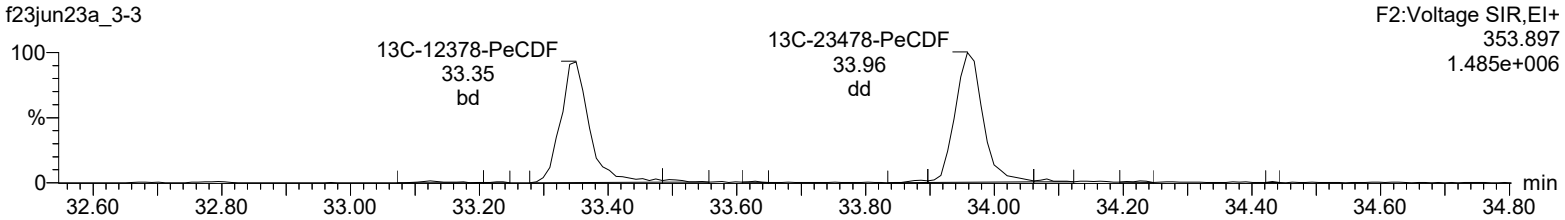
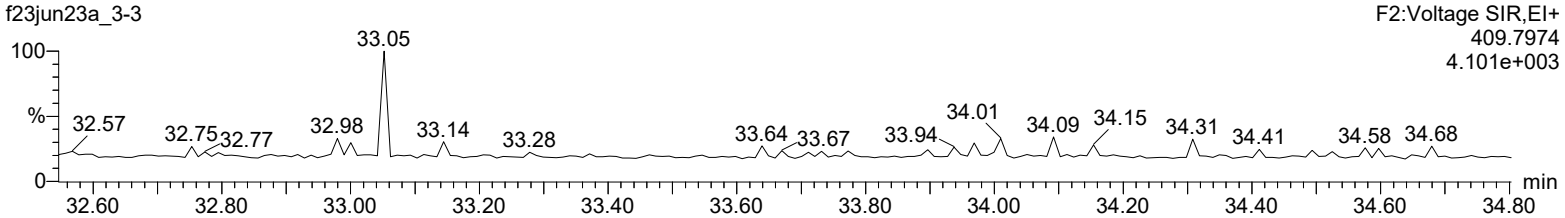
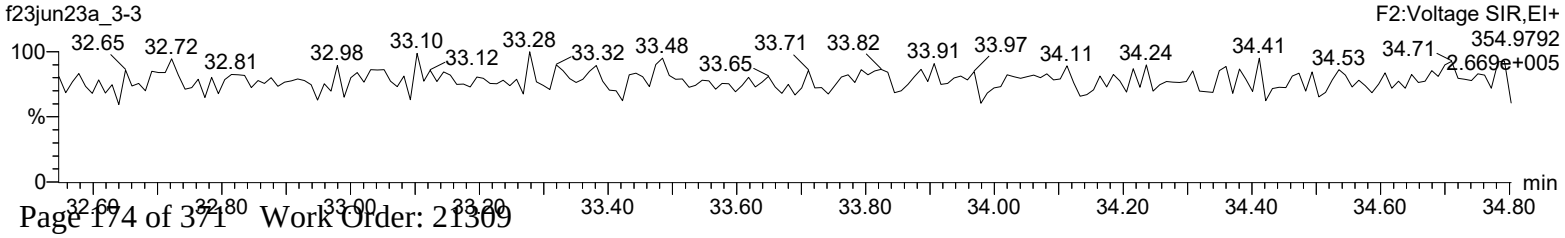


HpDPE



Lock Mass F2



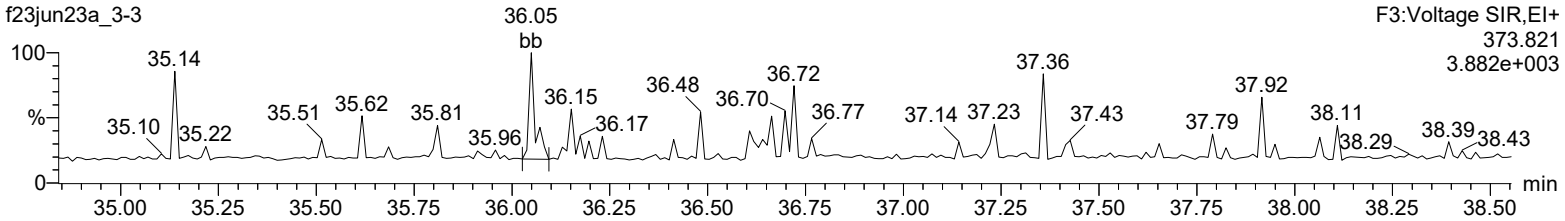
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

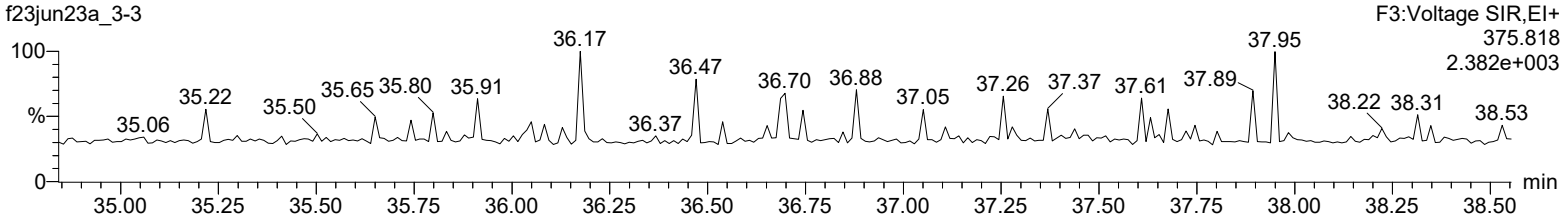
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

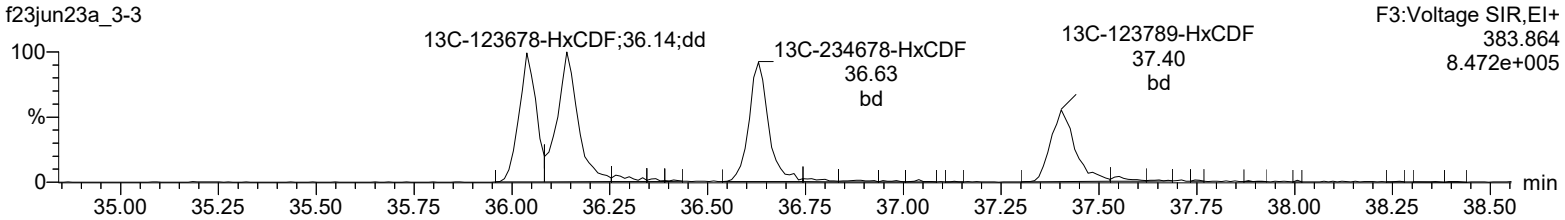
Total-hexafurans



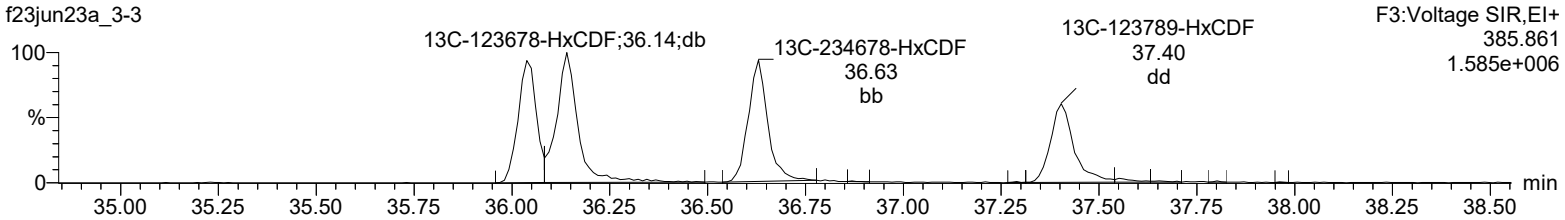
Total-hexafurans



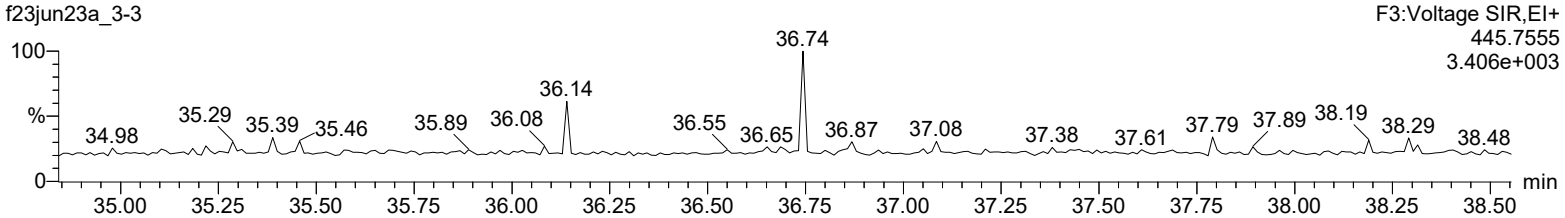
13C-123478-HxCDF



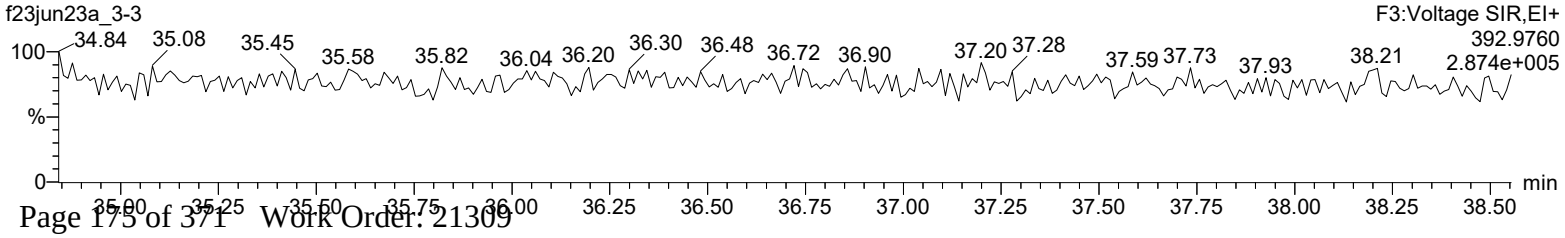
13C-123478-HxCDF



OcDPE



Lock Mass F3



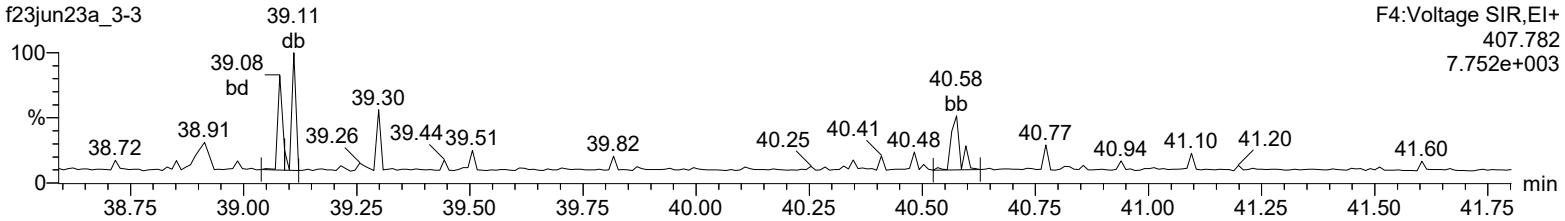
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

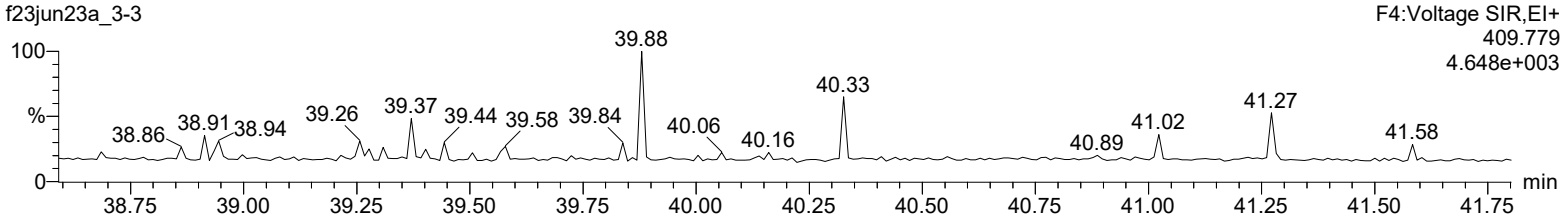
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

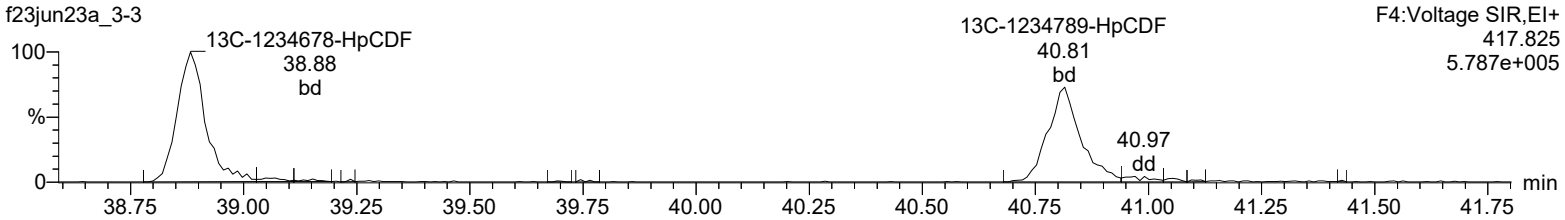
Total-heptafurans



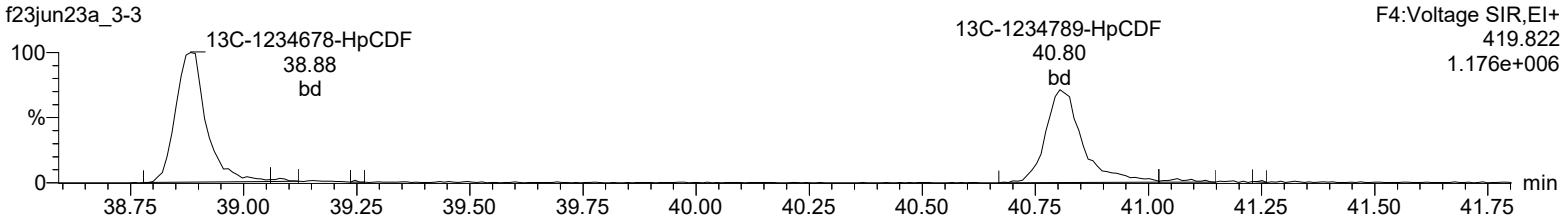
Total-heptafurans



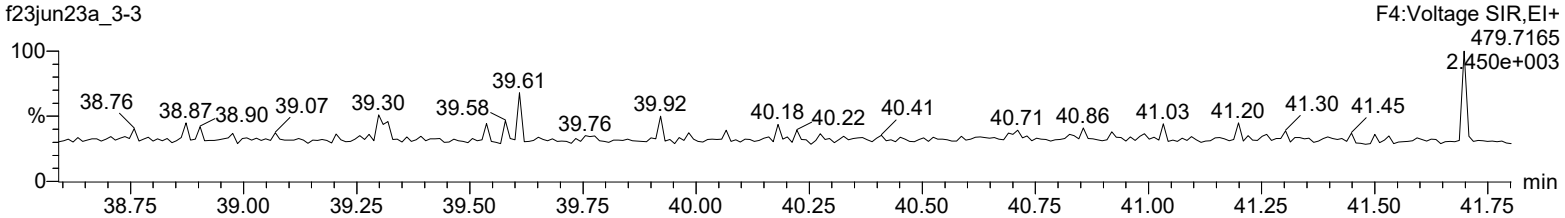
13C-1234678-HpCDF



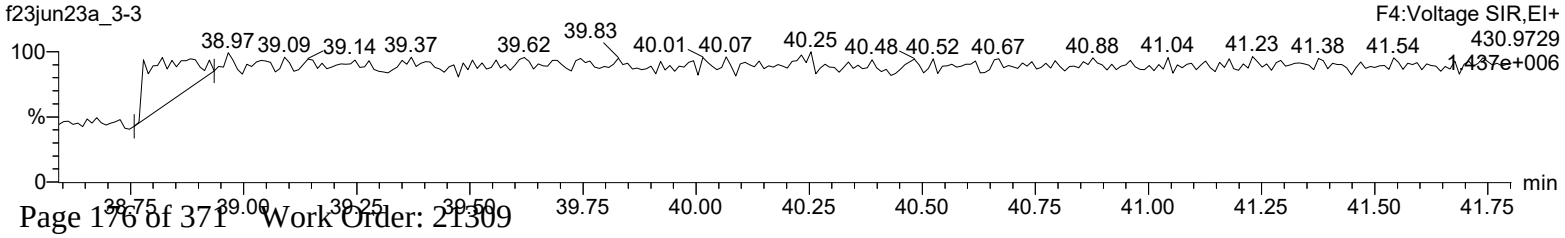
13C-1234678-HpCDF



NoDPE



Lock Mass F4



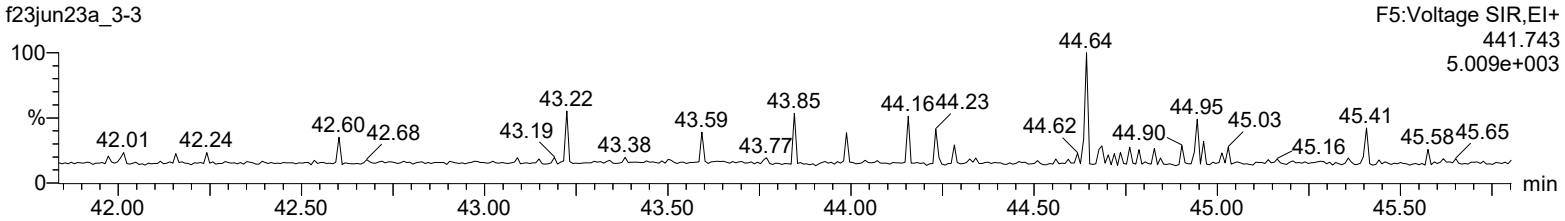
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

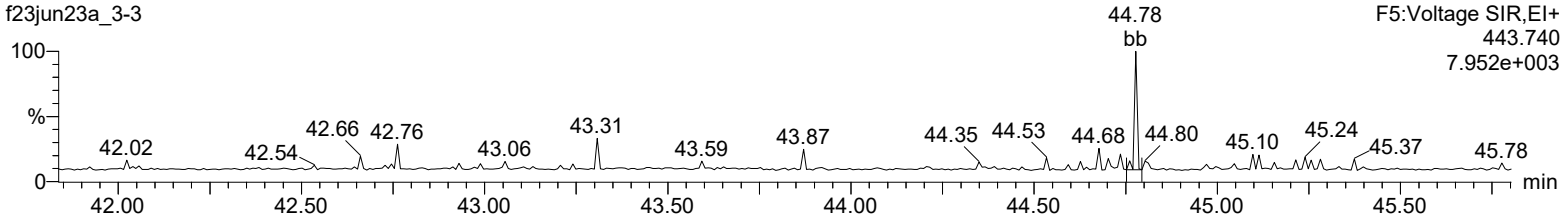
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-3, Date: 24-Jun-2023, Time: 10:25:15, ID: 12034325-1 MB, Description: , Job: %613%, Task: HRP722_2, User: MW1

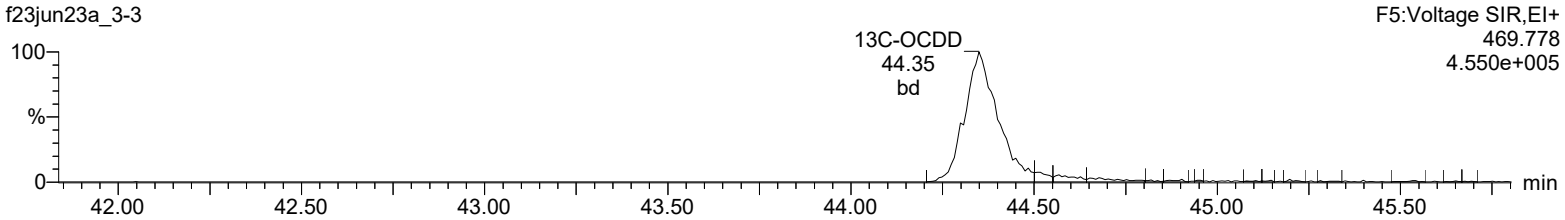
OCDF



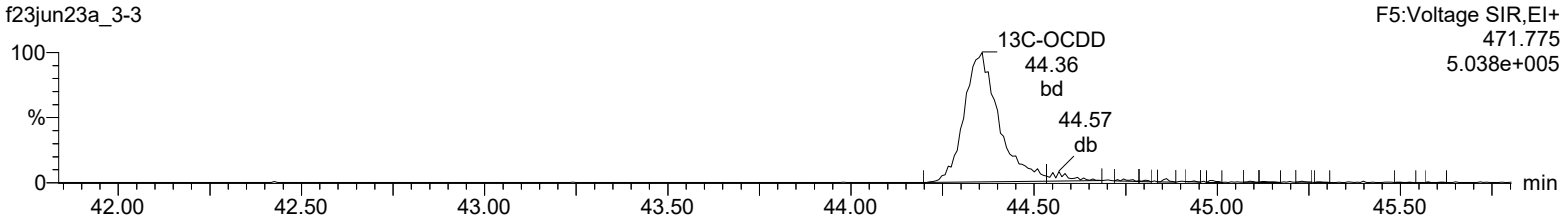
OCDF



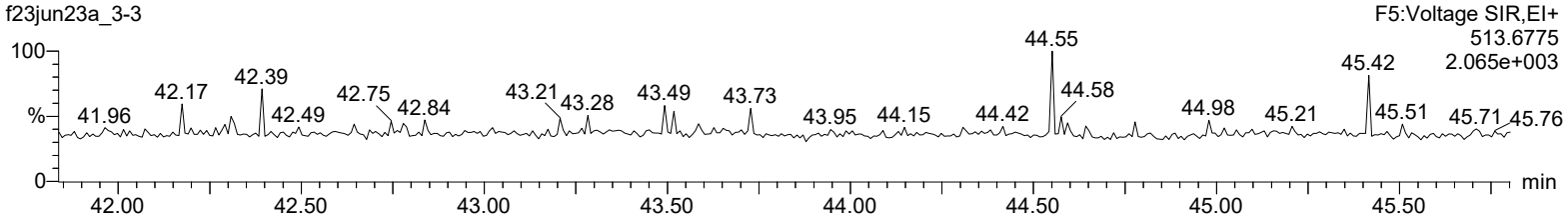
13C-OCDD



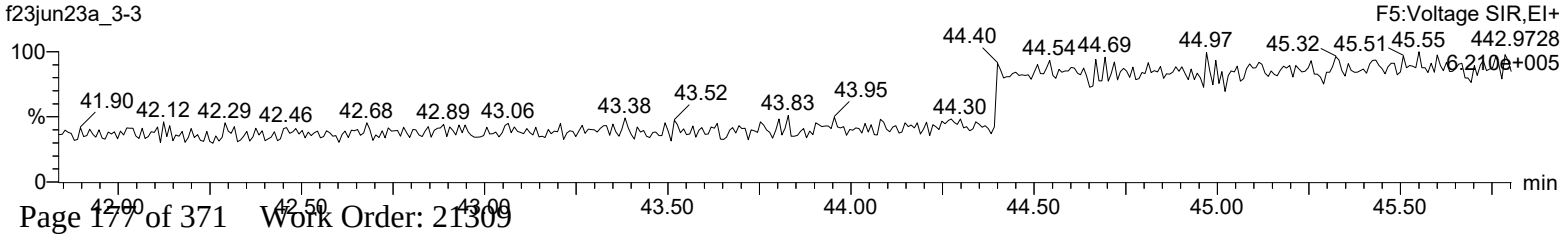
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034326**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**LCS for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 08:48**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-1**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		231	pg/L	3.96	5.00
40321-76-4	1,2,3,7,8-PeCDD		986	pg/L	9.10	25.0
39227-28-6	1,2,3,4,7,8-HxCDD		1130	pg/L	16.1	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		988	pg/L	15.0	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1090	pg/L	15.5	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1100	pg/L	18.2	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		2150	pg/L	59.8	100
51207-31-9	2,3,7,8-TCDF		224	pg/L	4.22	10.0
57117-41-6	1,2,3,7,8-PeCDF		1080	pg/L	13.2	50.0
57117-31-4	2,3,4,7,8-PeCDF		1090	pg/L	11.4	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1070	pg/L	22.2	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1080	pg/L	20.6	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1090	pg/L	20.8	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1060	pg/L	32.2	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1150	pg/L	24.8	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1160	pg/L	34.0	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2430	pg/L	79.0	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1250	2000	pg/L	62.5	(20%-175%)
13C-1,2,3,7,8-PeCDD		1430	2000	pg/L	71.4	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1270	2000	pg/L	63.7	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	68.9	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1330	2000	pg/L	66.6	(22%-166%)
13C-OCDD		2350	4000	pg/L	58.6	(13%-199%)
13C-2,3,7,8-TCDF		1290	2000	pg/L	64.5	(22%-152%)
13C-1,2,3,7,8-PeCDF		1300	2000	pg/L	64.8	(21%-192%)
13C-2,3,4,7,8-PeCDF		1450	2000	pg/L	72.3	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1310	2000	pg/L	65.7	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1290	2000	pg/L	64.6	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1330	2000	pg/L	66.6	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1290	2000	pg/L	64.4	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1250	2000	pg/L	62.6	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1350	2000	pg/L	67.3	(20%-186%)
37Cl-2,3,7,8-TCDD		148	200	pg/L	73.9	(31%-191%)

Comments:

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:18:29 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	8.98e3	1.13e4	2.03e4	31.31	1.001	0.80	NO	11.571	0.198	1.38e5	1328	103.7	1.55e5	782	198.7	bd	bd
2	12378-PeCDD	4.50e4	2.96e4	7.46e4	34.17	1.000	1.52	NO	49.279	0.455	8.72e5	2667	327.1	5.72e5	2498	229.2	bd	bd
3	123478-HxCDD	3.68e4	2.92e4	6.60e4	36.78	1.000	1.26	NO	56.654	0.803	6.19e5	3437	180.1	5.06e5	3307	153.0	bd	bd
4	123678-HxCDD	4.05e4	3.43e4	7.48e4	36.87	1.001	1.18	NO	49.404	0.752	7.00e5	3437	203.7	5.47e5	3307	165.5	db	dd
5	123789-HxCDD	4.00e4	3.30e4	7.29e4	37.11	1.007	1.21	NO	54.523	0.775	5.93e5	3437	172.7	4.71e5	3307	142.3	bd	dd
6	1234678-HpCDD	3.88e4	3.37e4	7.25e4	40.16	1.000	1.15	NO	55.009	0.909	4.44e5	2409	184.2	4.02e5	3511	114.6	bd	bd
7	OCDD	4.39e4	4.75e4	9.14e4	44.37	1.000	0.92	NO	107.263	2.99	4.21e5	3271	128.8	4.69e5	5703	82.2	bd	bd
8	2378-TCDF	1.61e4	2.18e4	3.79e4	30.58	1.000	0.74	NO	11.185	0.211	1.77e5	1310	134.8	2.20e5	1725	127.7	bb	bb
9	12378-PeCDF	1.07e5	6.36e4	1.71e5	33.36	1.000	1.69	NO	53.793	0.658	2.14e6	7025	304.1	1.24e6	9696	127.7	bd	bd
10	23478-PeCDF	1.24e5	7.57e4	2.00e5	33.98	1.000	1.64	NO	54.728	0.568	2.61e6	7025	371.0	1.51e6	9696	155.8	bb	bd
11	123478-HxCDF	7.21e4	5.67e4	1.29e5	36.06	1.000	1.27	NO	53.252	1.11	1.25e6	10043	124.3	1.03e6	8427	121.8	bd	bd
12	123678-HxCDF	8.76e4	6.70e4	1.55e5	36.16	1.000	1.31	NO	53.982	1.03	1.45e6	10043	144.2	1.05e6	8427	124.6	dd	db
13	234678-HxCDF	7.78e4	6.09e4	1.39e5	36.65	1.000	1.28	NO	54.392	1.04	1.35e6	10043	134.6	9.40e5	8427	111.5	bb	bd
14	123789-HxCDF	5.90e4	4.75e4	1.07e5	37.43	1.001	1.24	NO	53.068	1.61	7.77e5	10043	77.3	6.67e5	8427	79.2	bd	bd
15	1234678-HpCDF	7.77e4	7.61e4	1.54e5	38.90	1.000	1.02	NO	57.388	1.24	1.16e6	11743	99.1	1.02e6	5381	189.0	bd	bb
16	1234789-HpCDF	6.54e4	6.28e4	1.28e5	40.83	1.000	1.04	NO	57.964	1.70	7.31e5	11743	62.2	7.35e5	5381	136.6	bb	bd
17	OCDF	7.98e4	8.42e4	1.64e5	44.68	1.007	0.95	NO	121.562	3.95	8.01e5	3918	204.6	8.05e5	14837	54.3	bd	bd
18	13C-2378-TCDD	7.36e4	8.57e4	1.59e5	31.28	1.017	0.86	NO	62.484	0.468	1.12e6	4072	274.9	1.28e6	1985	646.9	bd	bd
19	13C-12378-PeCDD	7.99e4	5.00e4	1.30e5	34.16	1.110	1.60	NO	71.359	0.616	1.50e6	2284	656.8	9.64e5	3404	283.1	bd	bd
20	13C-123478-HxCDD	6.03e4	4.83e4	1.09e5	36.77	0.991	1.25	NO	63.667	0.936	1.09e6	5385	202.0	8.62e5	3466	248.8	bd	bd
21	13C-123678-HxCDD	7.97e4	6.27e4	1.42e5	36.85	0.993	1.27	NO	68.887	0.772	1.18e6	5385	219.2	8.81e5	3466	254.1	dd	dd
22	13C-1234678-HpCDD	5.60e4	5.13e4	1.07e5	40.14	1.082	1.09	NO	66.630	0.711	6.92e5	3529	196.0	6.21e5	2829	219.6	bd	bd
23	13C-OCDD	7.24e4	8.16e4	1.54e5	44.37	1.196	0.89	NO	117.266	1.14	6.37e5	4135	154.0	7.53e5	4145	181.6	bd	bd
24	13C-2378-TCDF	1.12e5	1.38e5	2.50e5	30.58	0.994	0.81	NO	64.459	0.227	1.19e6	2101	567.4	1.47e6	2364	621.9	bd	bd
25	13C-12378-PeCDF	1.55e5	9.47e4	2.49e5	33.36	1.084	1.63	NO	64.814	0.824	3.10e6	9365	330.5	1.86e6	6727	276.1	bd	bd
26	13C-23478-PeCDF	1.63e5	9.96e4	2.62e5	33.97	1.104	1.63	NO	72.329	0.875	3.27e6	9365	349.6	1.96e6	6727	290.8	bb	bd
27	13C-123478-HxCDF	5.93e4	1.11e5	1.71e5	36.05	0.972	0.53	NO	65.653	0.745	1.02e6	4041	252.0	1.98e6	6700	294.8	bd	bd
28	13C-123678-HxCDF	7.38e4	1.34e5	2.08e5	36.15	0.975	0.55	NO	64.642	0.602	1.16e6	4041	287.1	2.01e6	6700	300.3	dd	db
29	13C-234678-HxCDF	6.22e4	1.17e5	1.79e5	36.64	0.988	0.53	NO	66.600	0.719	1.08e6	4041	267.8	1.86e6	6700	278.3	bb	bb
30	13C-123789-HxCDF	5.44e4	9.98e4	1.54e5	37.40	1.008	0.55	NO	64.402	0.809	7.77e5	4041	192.3	1.40e6	6700	208.6	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:18:29 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	6.25e4	1.31e5	1.94e5	38.89	1.048	0.48	NO	62.639	0.780	8.04e5	6042	133.1	1.84e6	7345	250.3	bd	bd
32	13C-1234789-HpCDF	5.21e4	1.10e5	1.62e5	40.83	1.100	0.47	NO	67.274	1.00	5.93e5	6042	98.2	1.22e6	7345	165.9	bd	bd
33	13C-1234-TCDD	1.02e5	1.22e5	2.24e5	30.77	0.000	0.84	NO	100.000	0.533	1.30e6	4072	318.7	1.51e6	1985	761.5	bd	bb
34	13C-123789-HxCDD	1.10e5	9.17e4	2.01e5	37.10	0.000	1.20	NO	100.000	0.793	1.52e6	5385	282.2	1.29e6	3466	373.6	dd	dd
35	37Cl-2378-TCDD	1.86e4		1.86e4	31.31	1.018			7.385	0.0970	2.79e5	1238	225.2				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

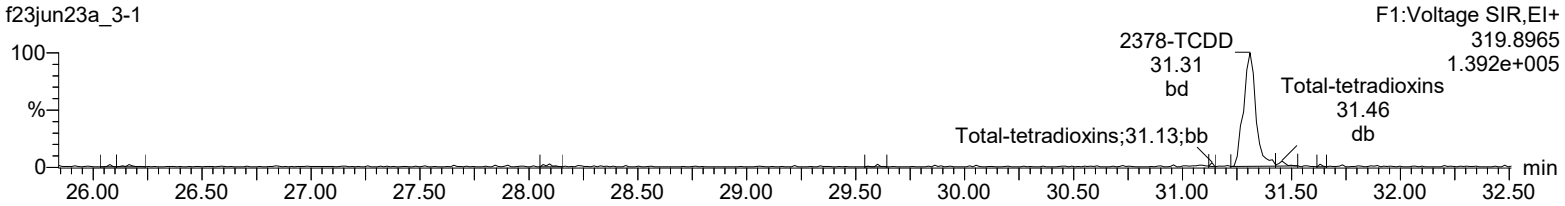
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

06/28/2023

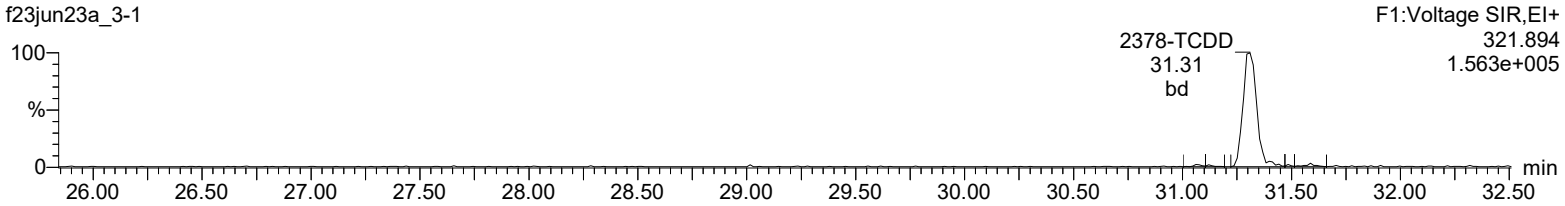
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

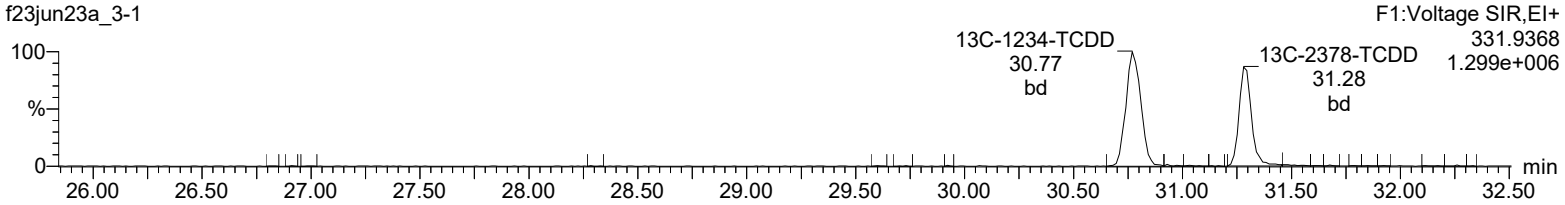
Total-tetradioxins



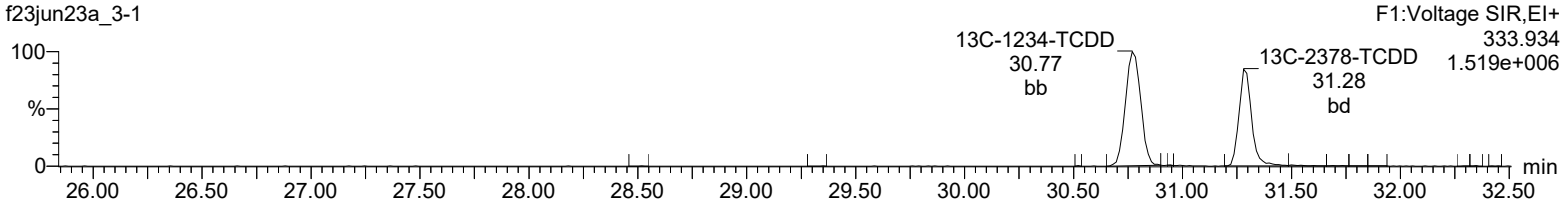
Total-tetradioxins



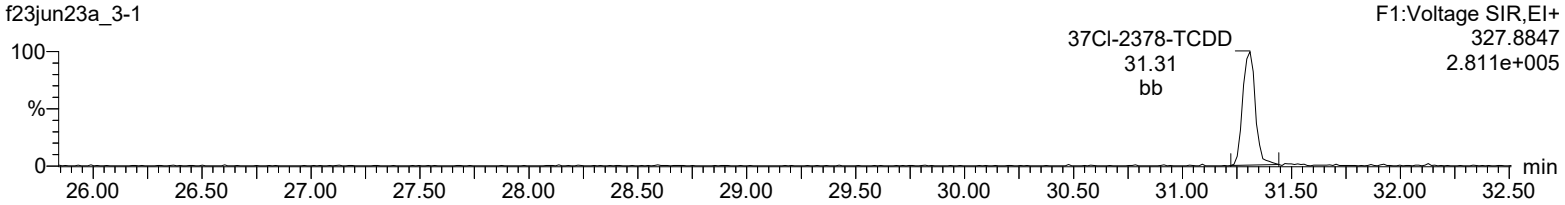
13C-2378-TCDD



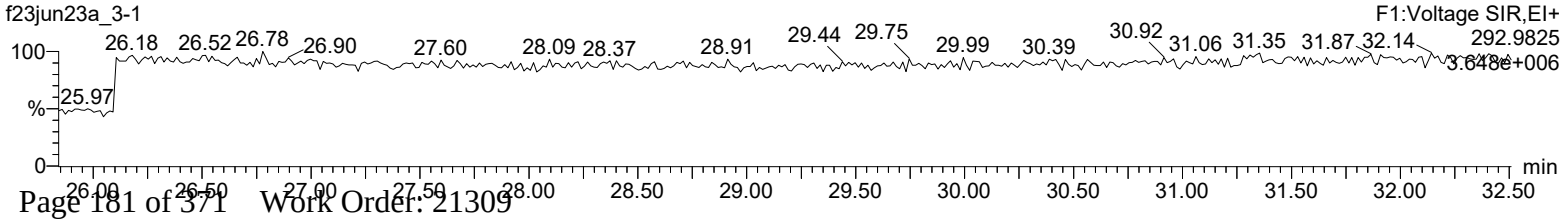
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



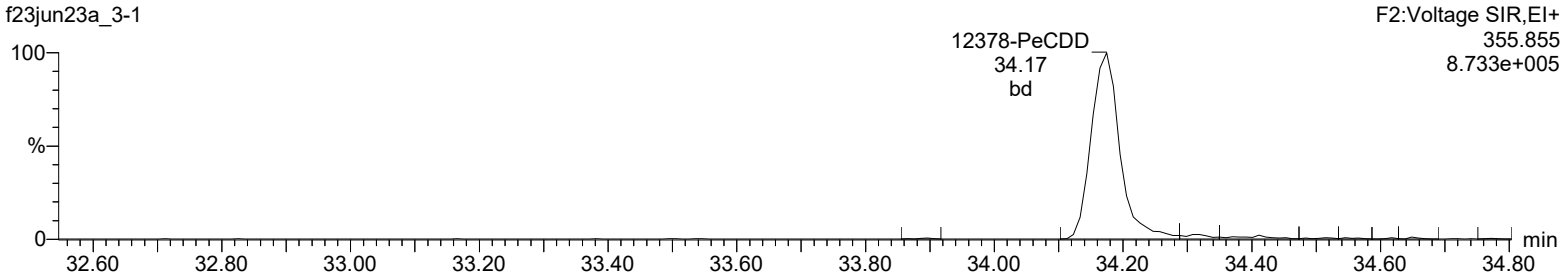
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

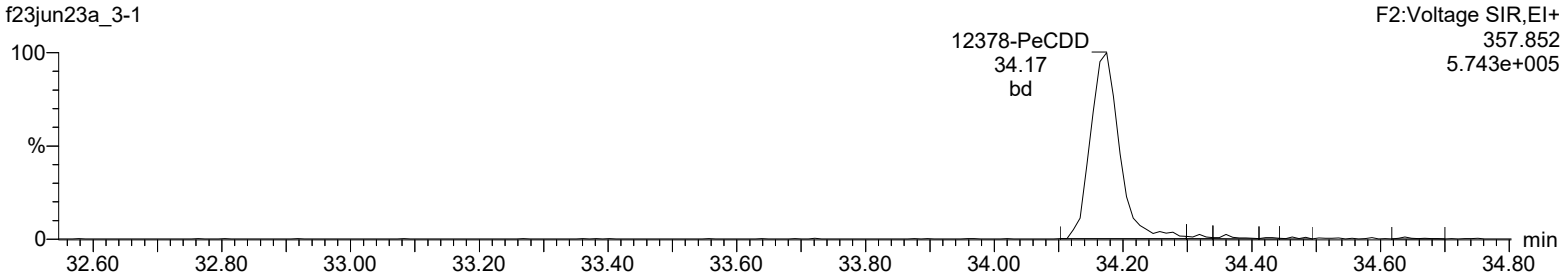
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

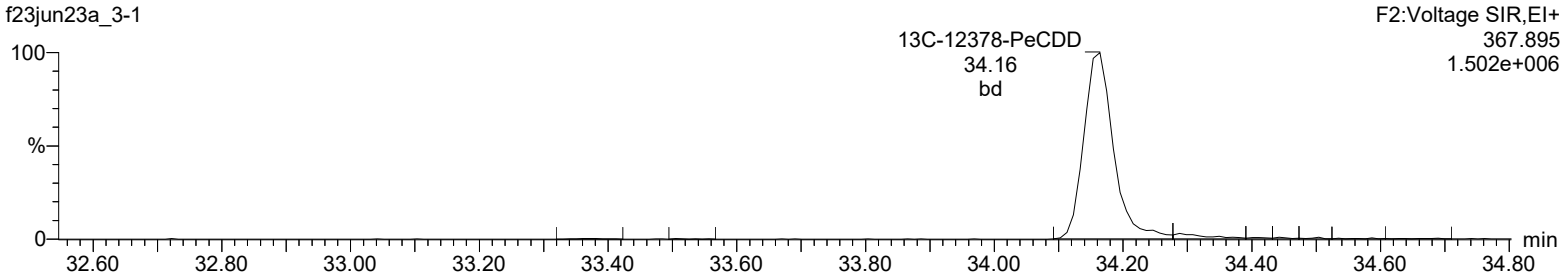
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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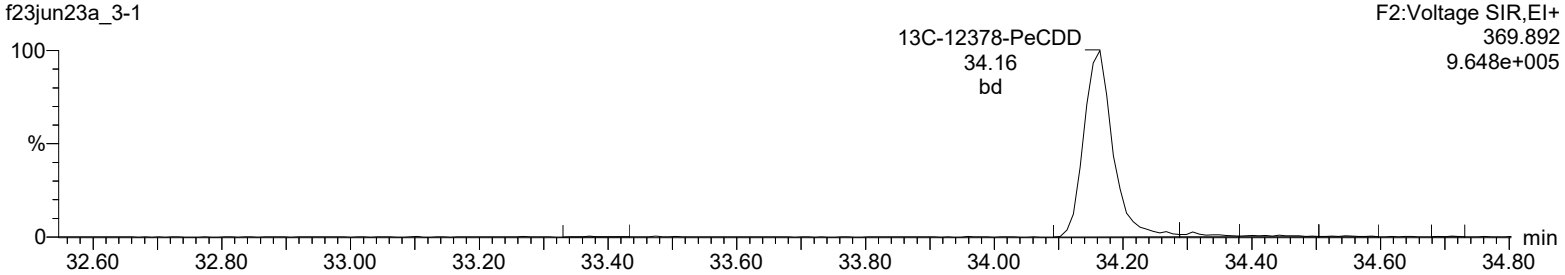
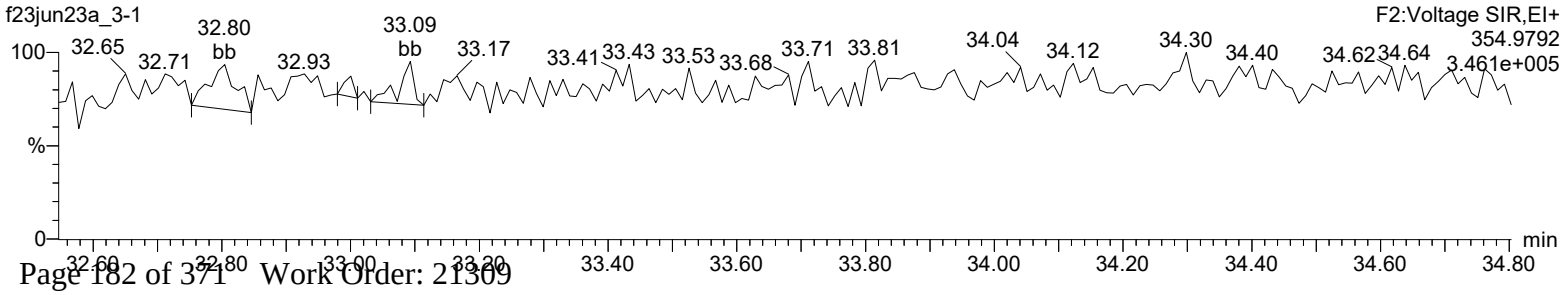


Lock Mass F2



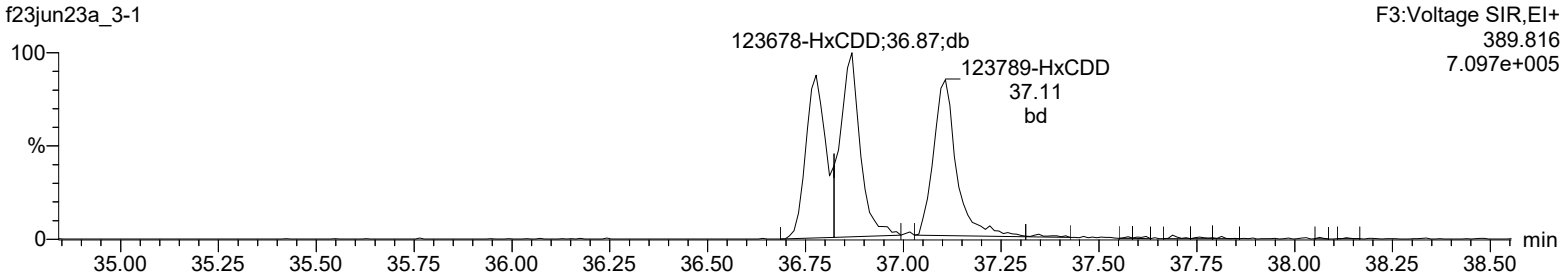
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

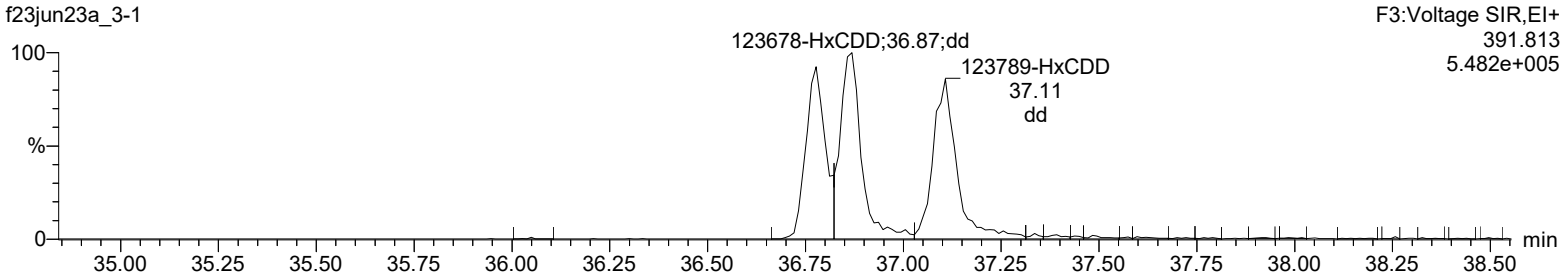
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

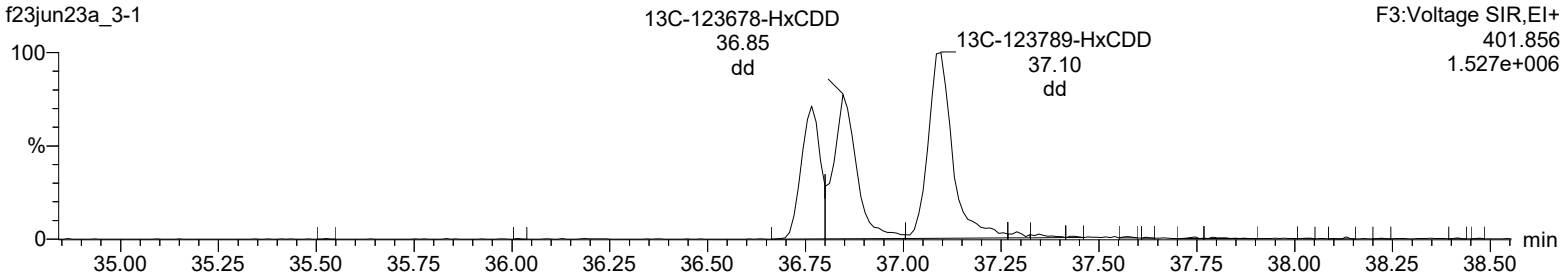
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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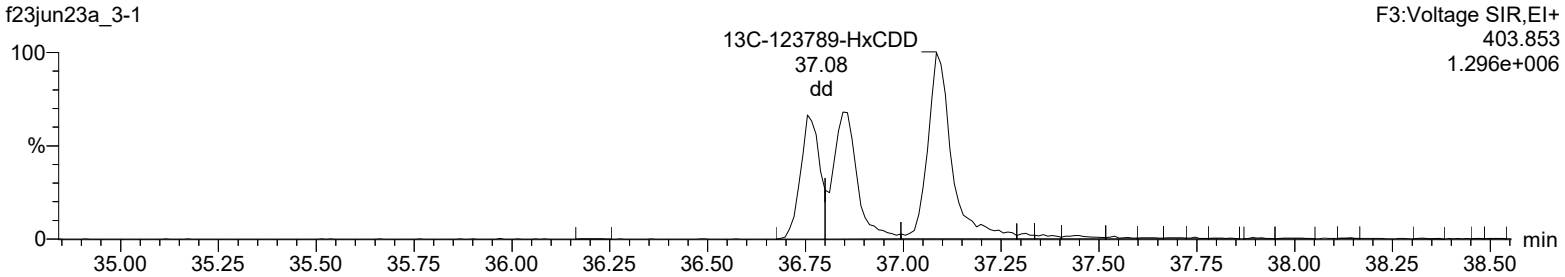
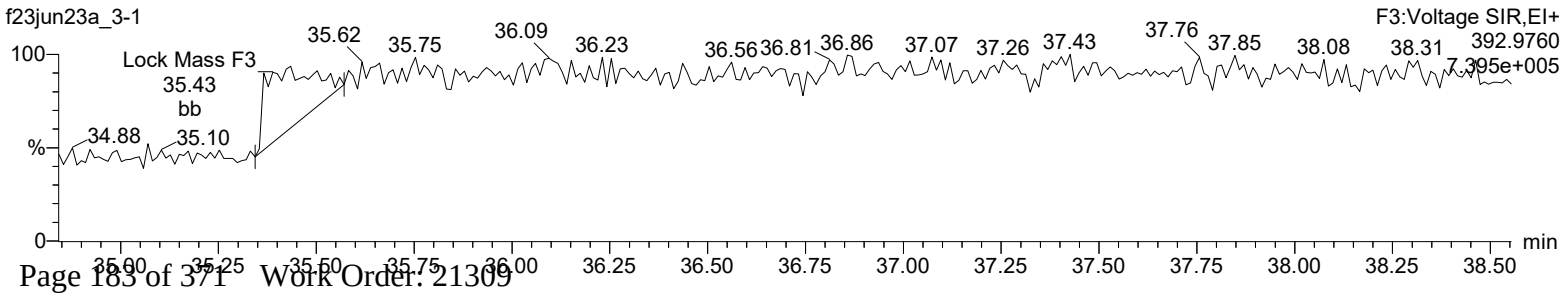


Lock Mass F3



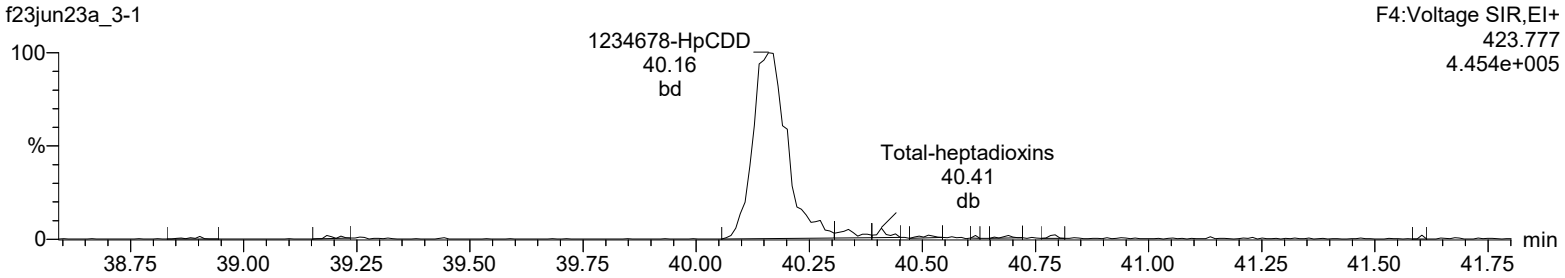
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

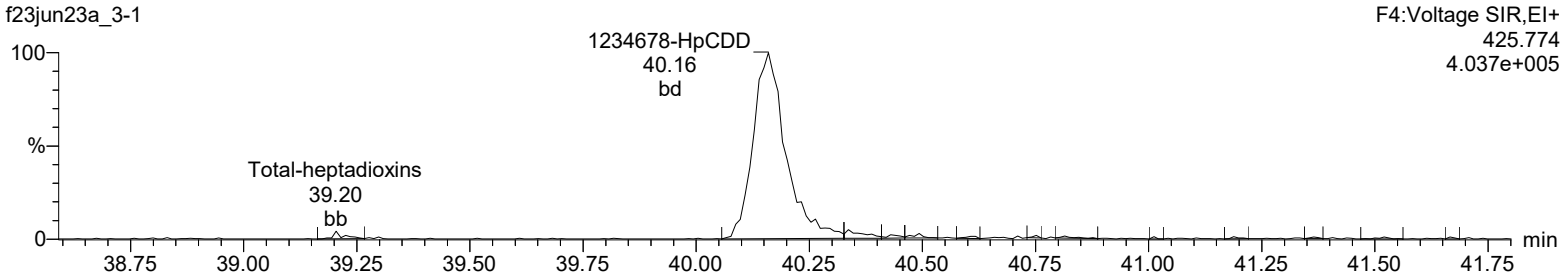
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

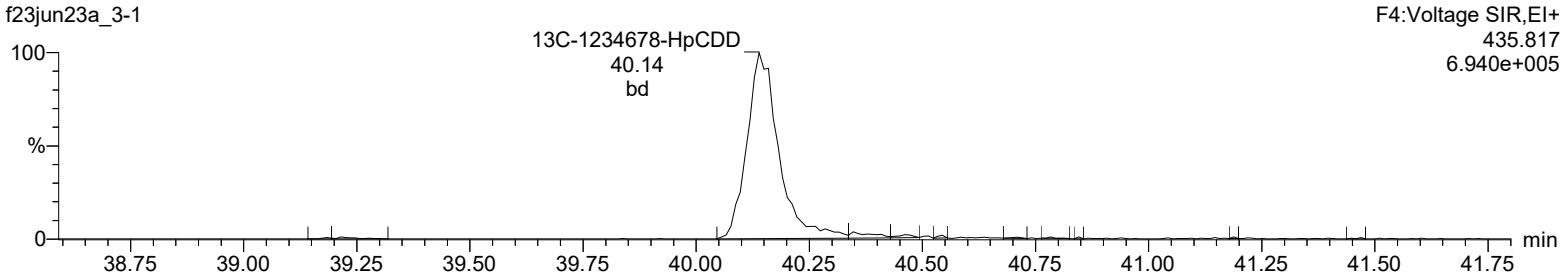
Total-heptadioxins



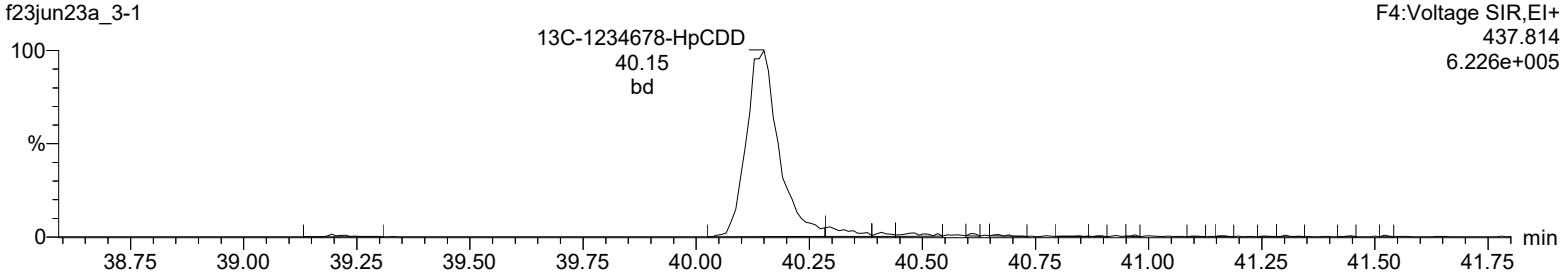
Total-heptadioxins



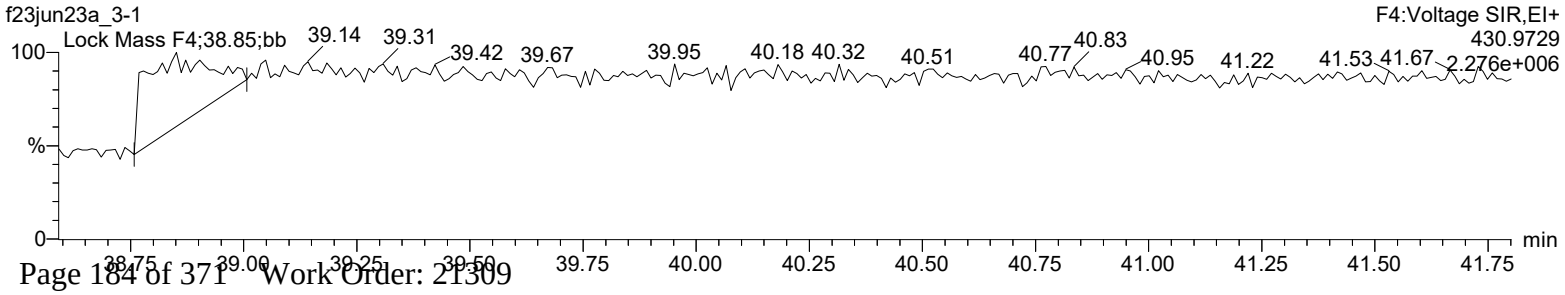
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



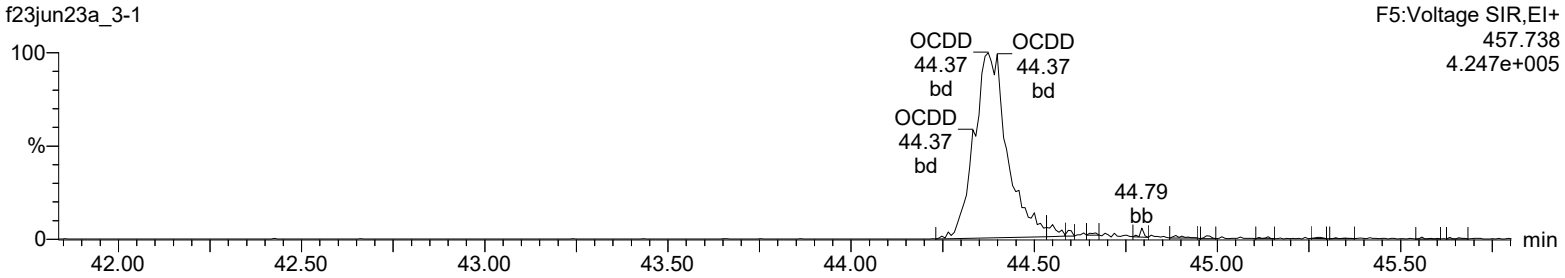
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

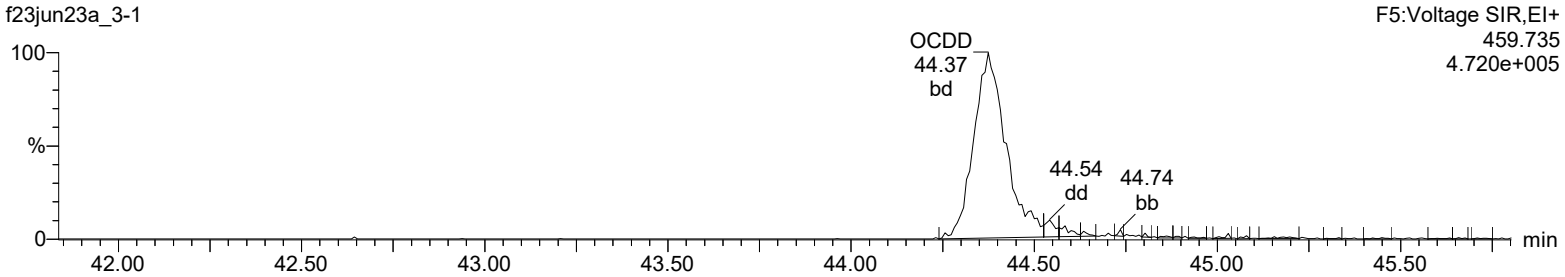
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

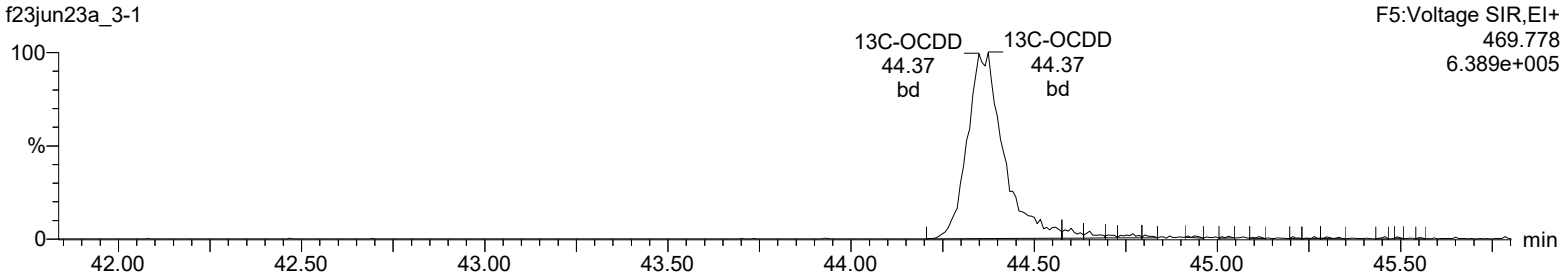
OCDD



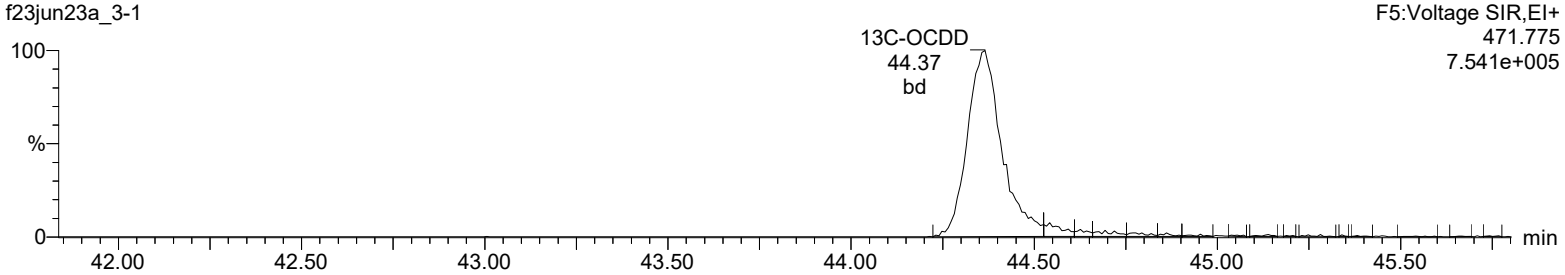
OCDD



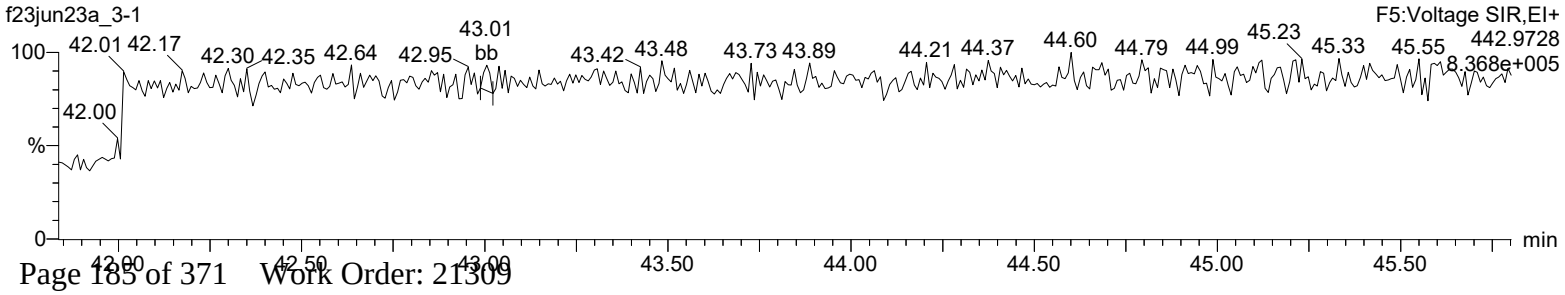
13C-OCDD



13C-OCDD



Lock Mass F5



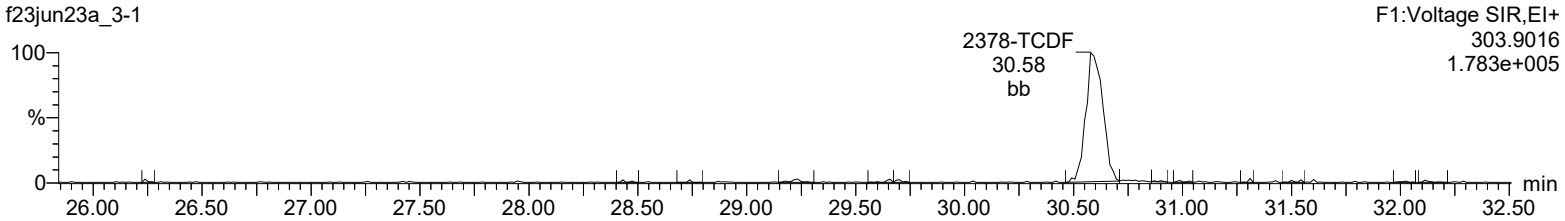
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

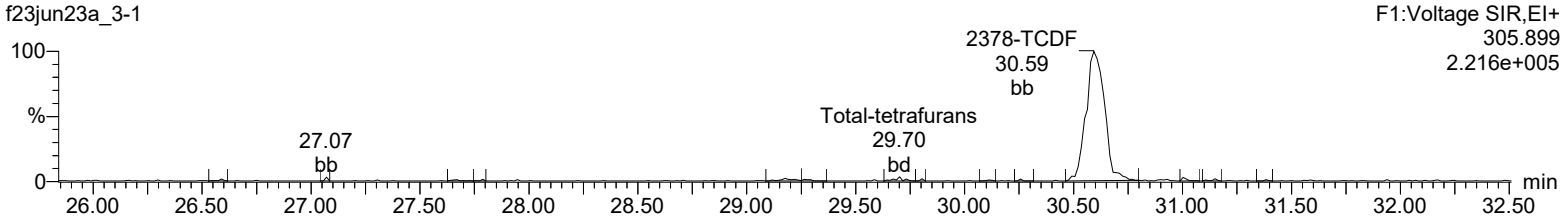
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

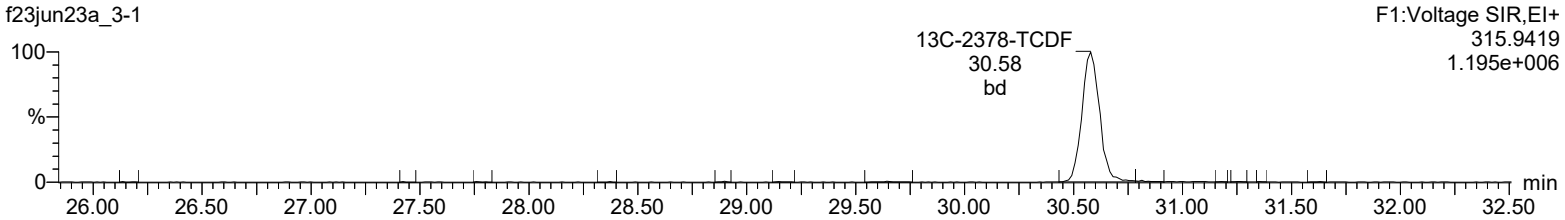
Total-tetrafurans



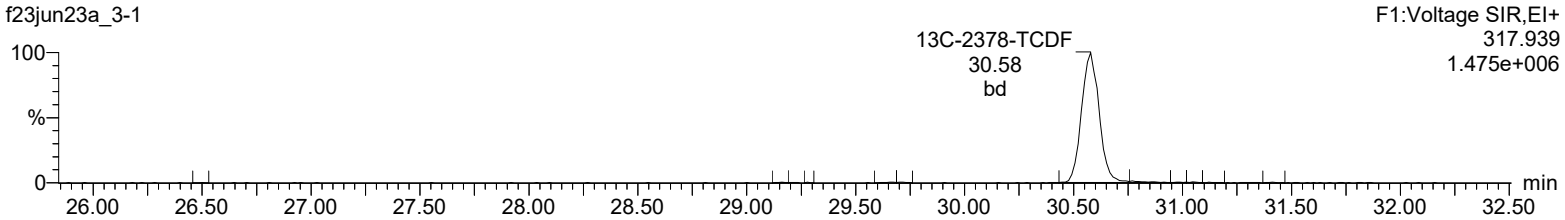
Total-tetrafurans



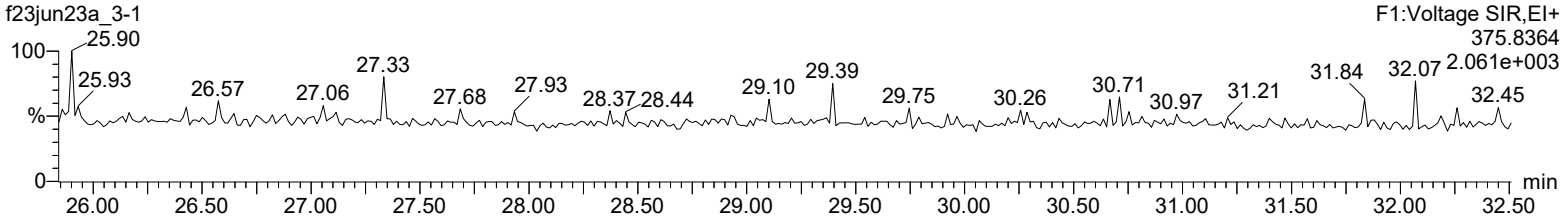
13C-2378-TCDF



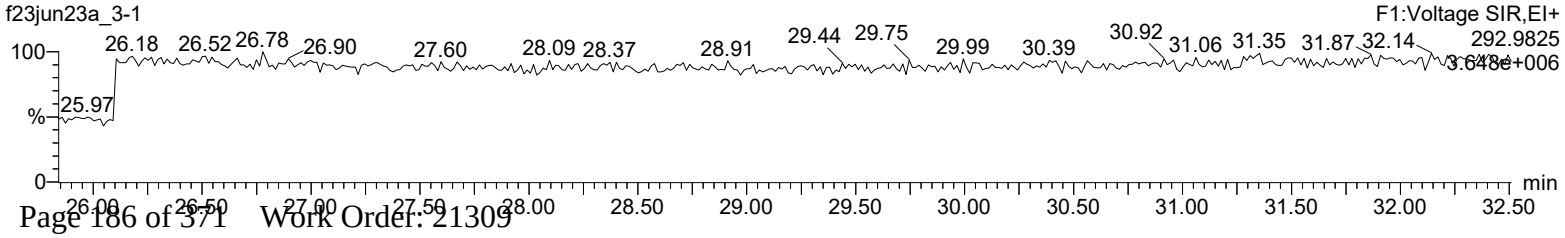
13C-2378-TCDF



HxDPE



Lock Mass F1



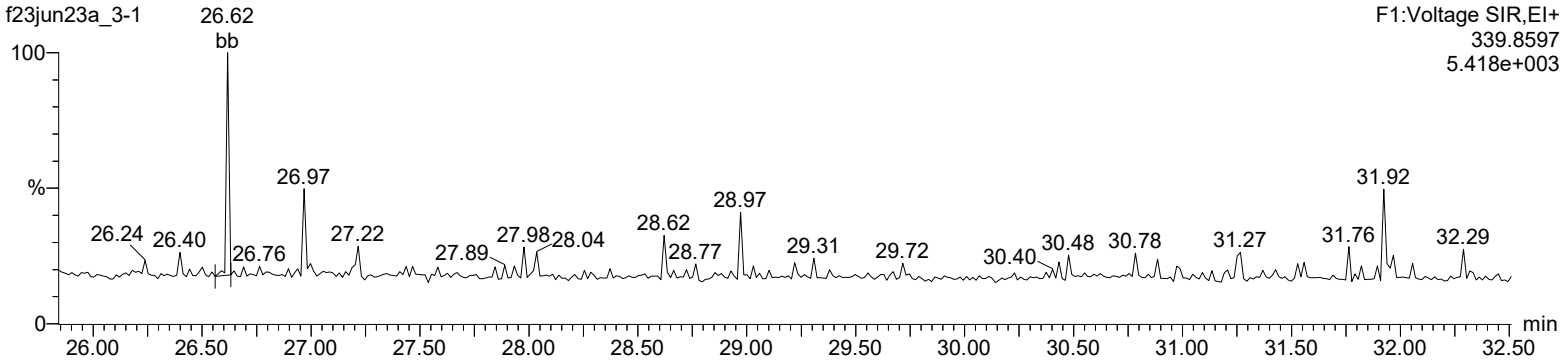
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

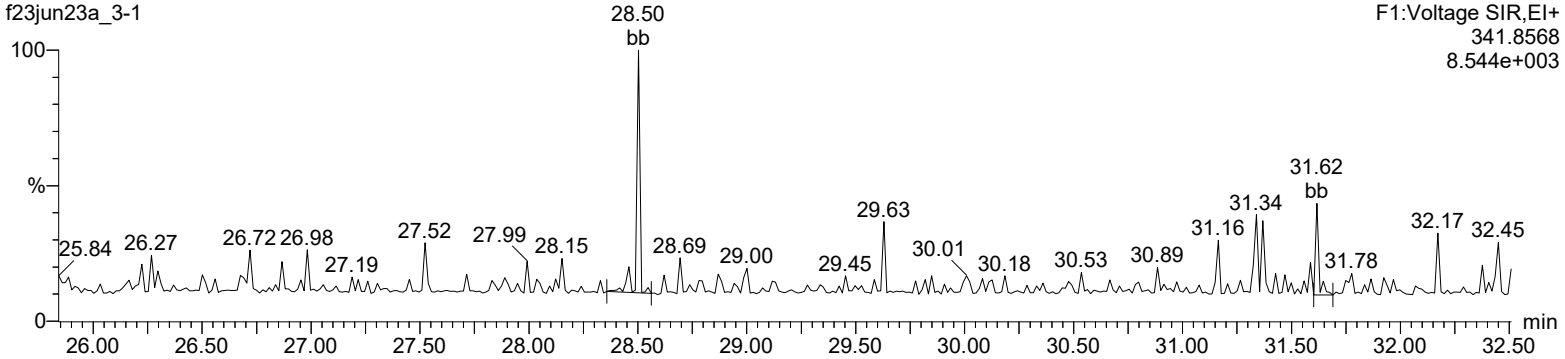
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

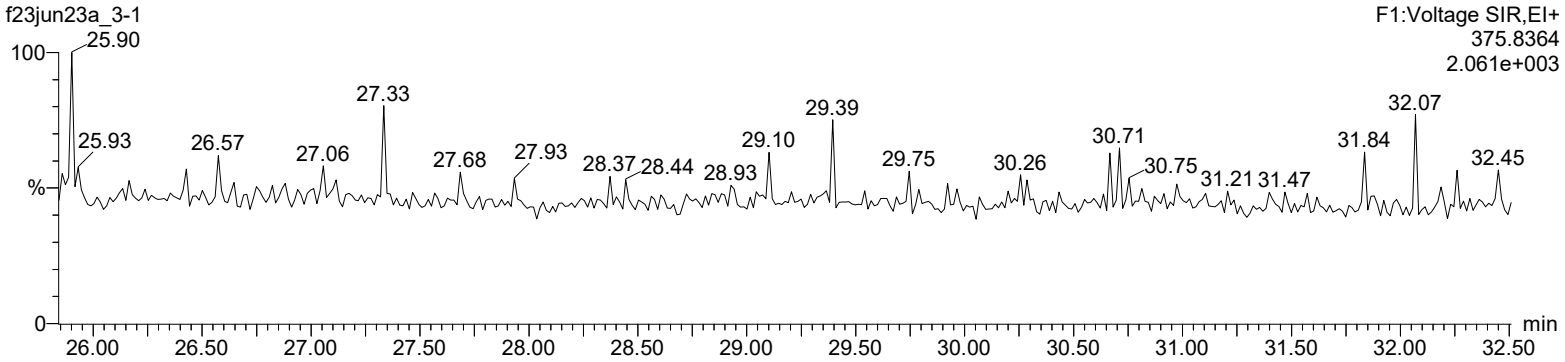
Total-pentafurans (F1)



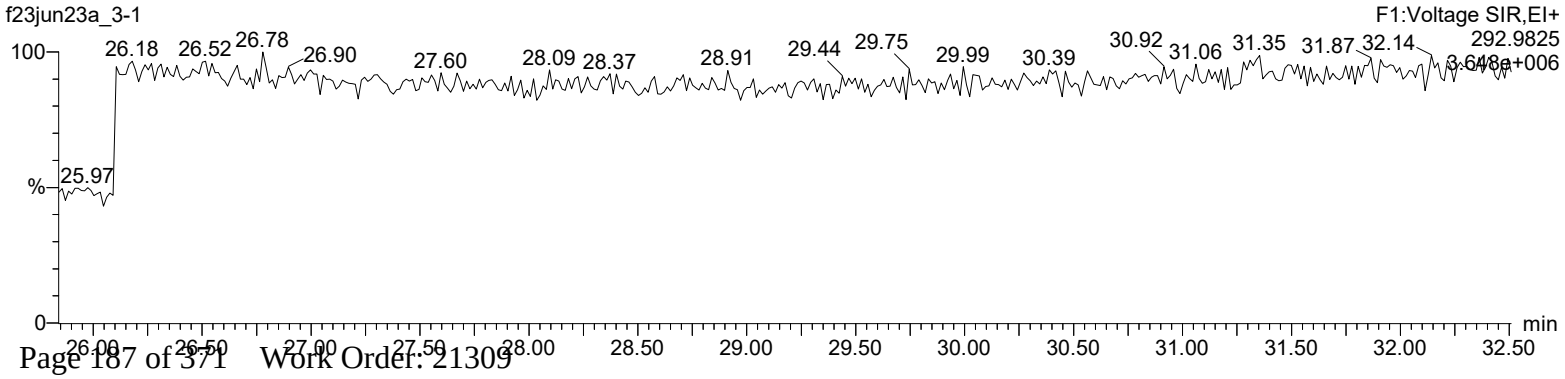
Total-pentafurans (F1)



HxDPE



Lock Mass F1



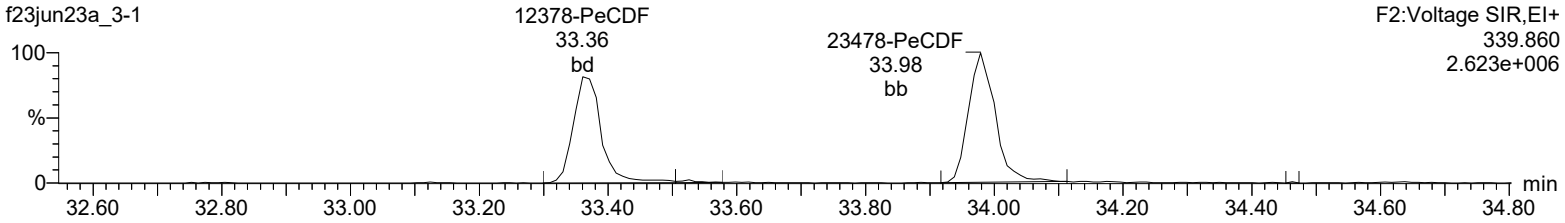
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

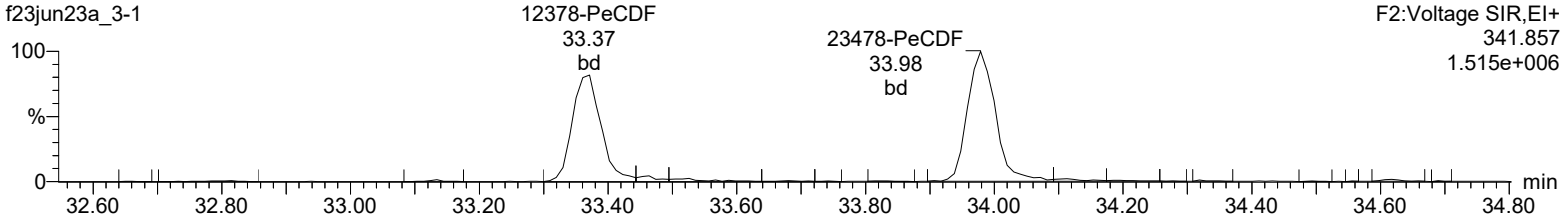
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

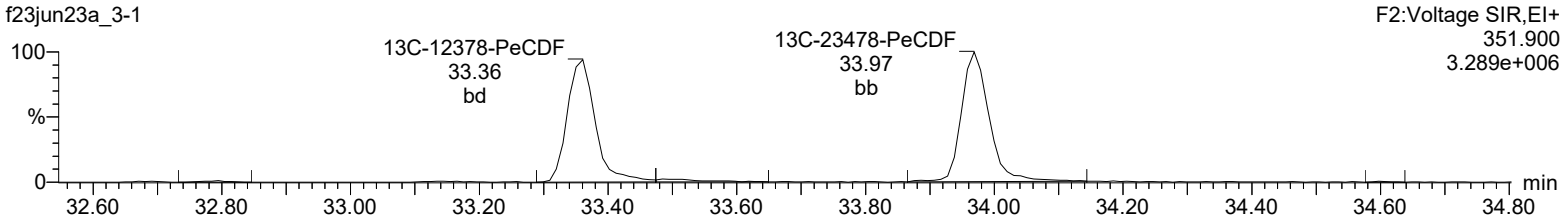
Total-pentafurans



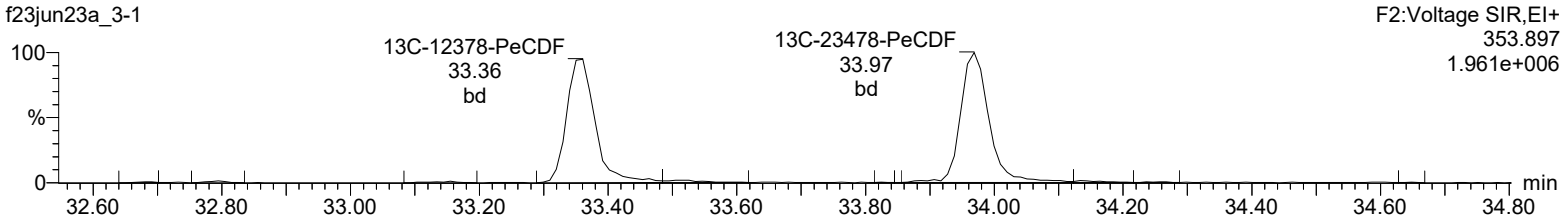
Total-pentafurans



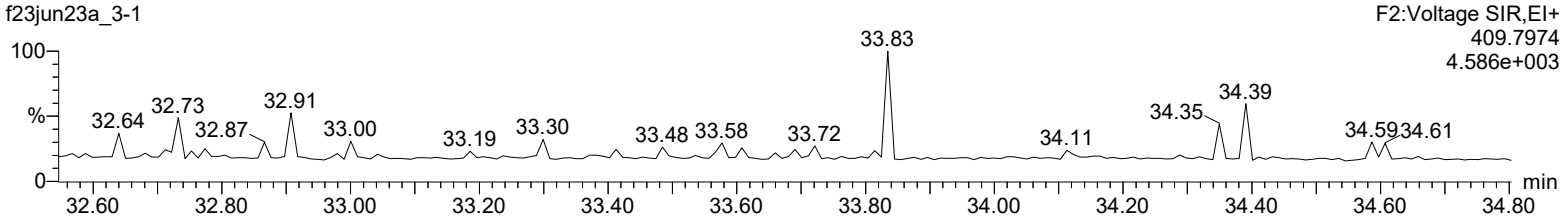
13C-12378-PeCDF



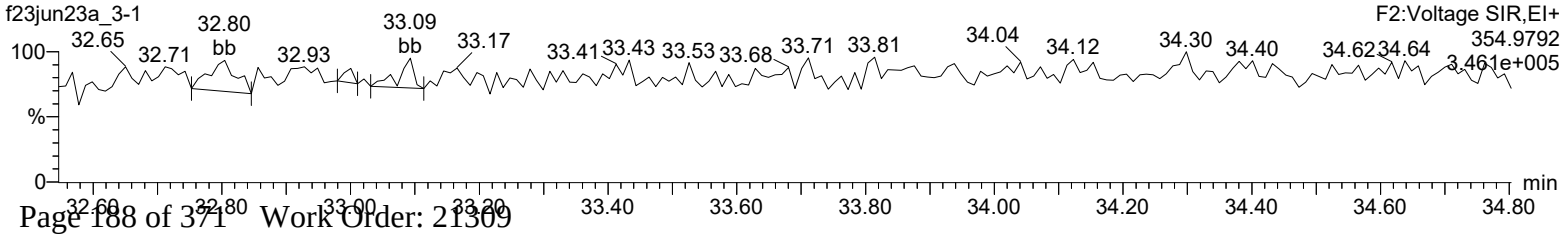
13C-12378-PeCDF



HpDPE



Lock Mass F2



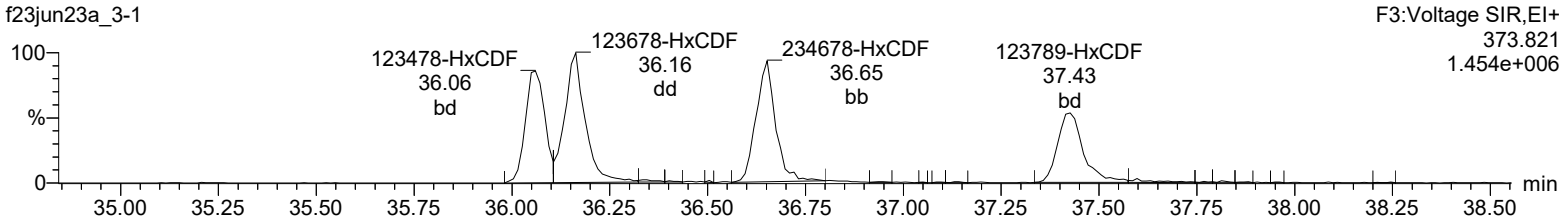
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

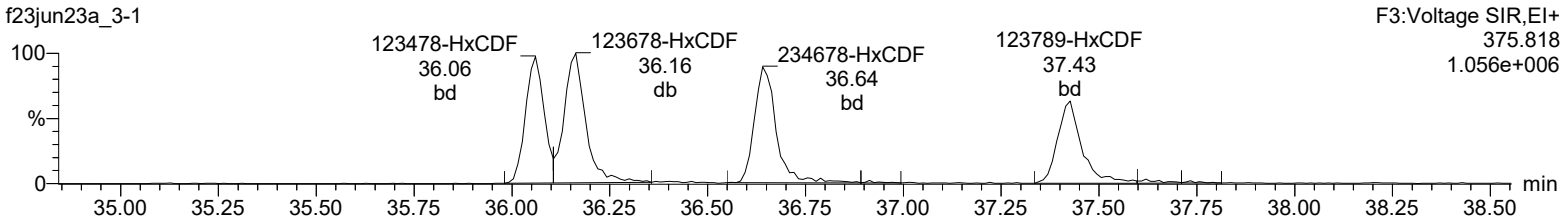
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

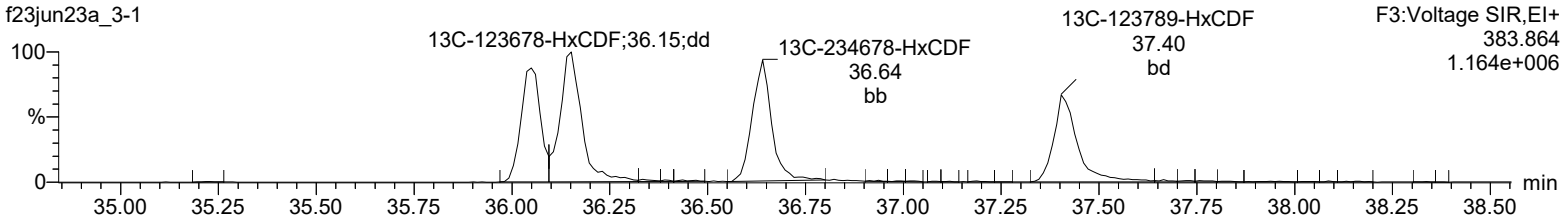
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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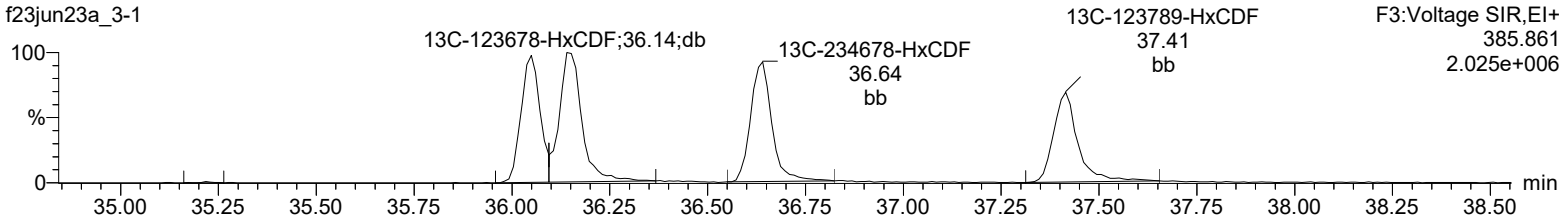
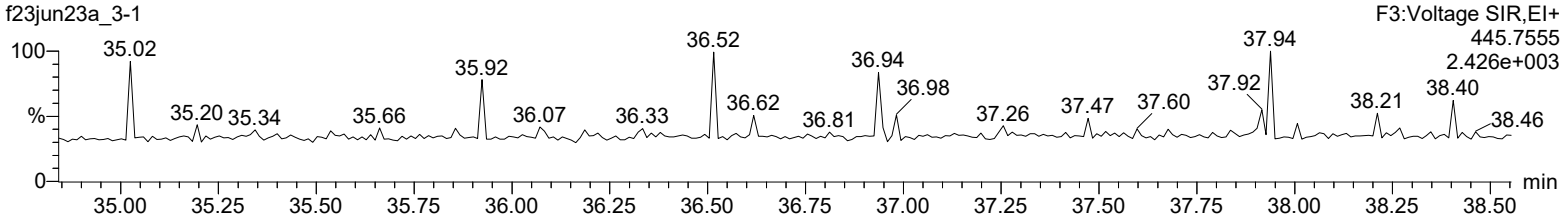
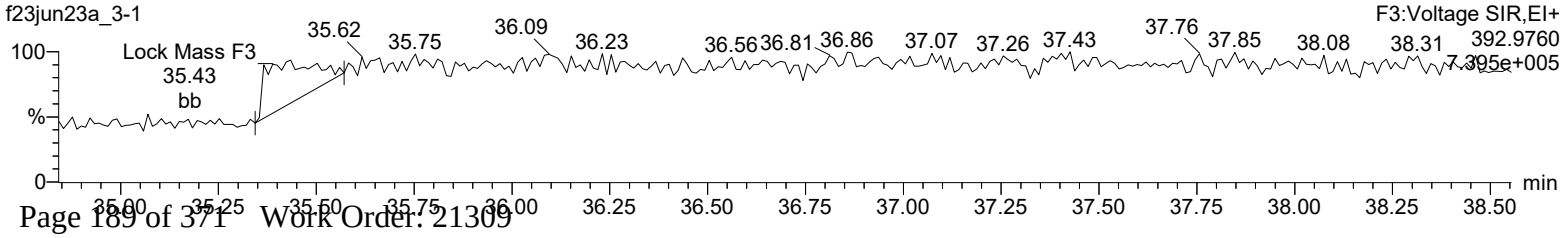


OcDPE



Lock Mass F3



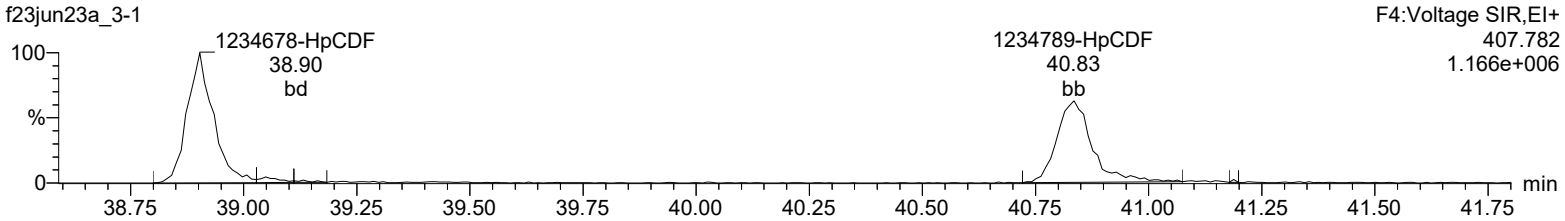
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

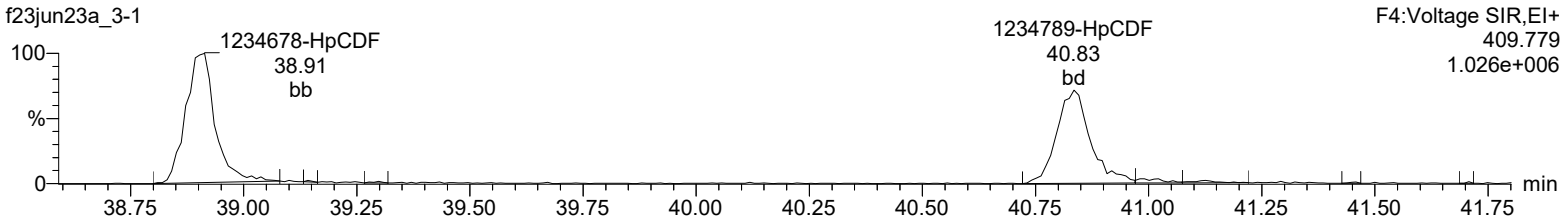
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

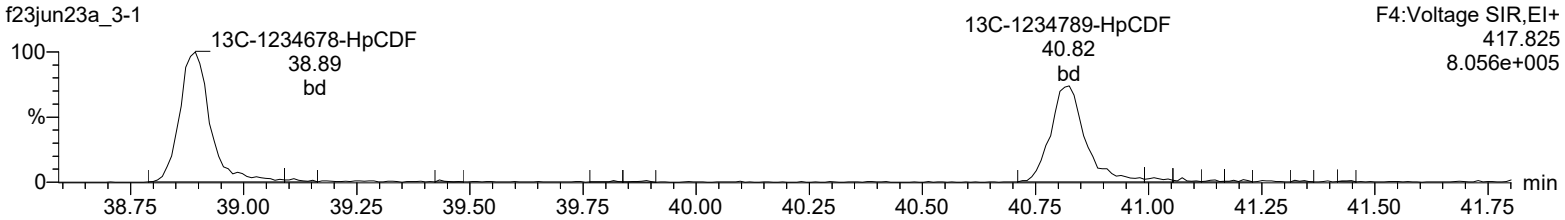
Total-heptafurans



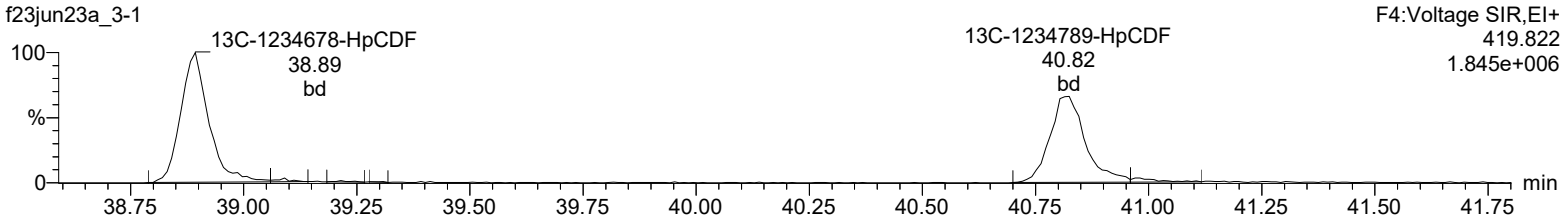
Total-heptafurans



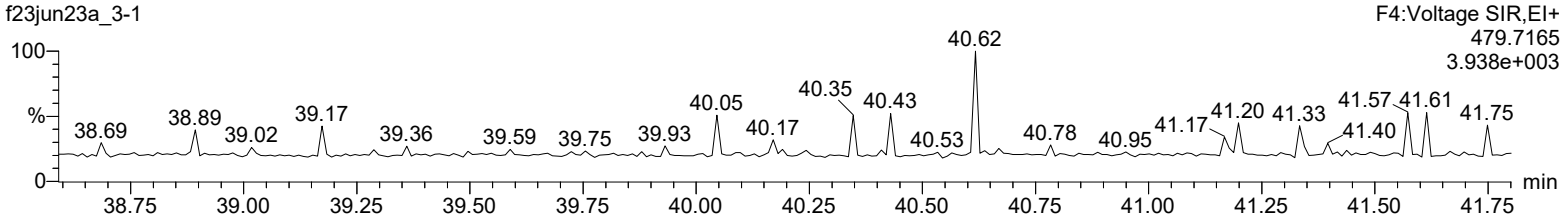
13C-1234678-HpCDF



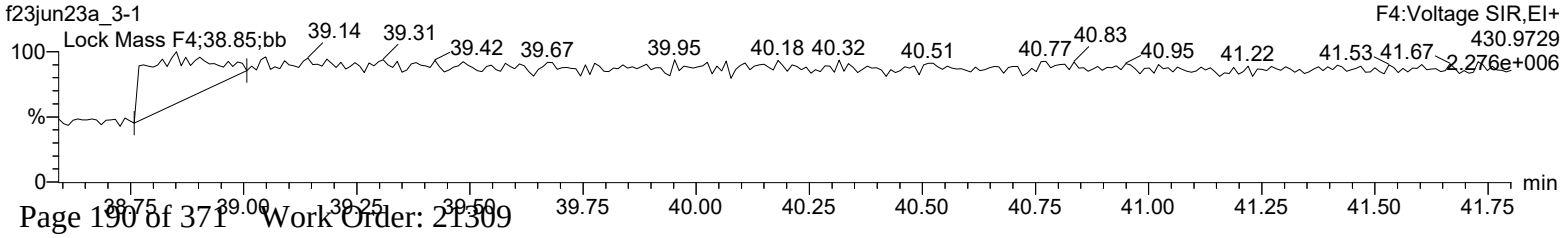
13C-1234678-HpCDF



NoDPE



Lock Mass F4



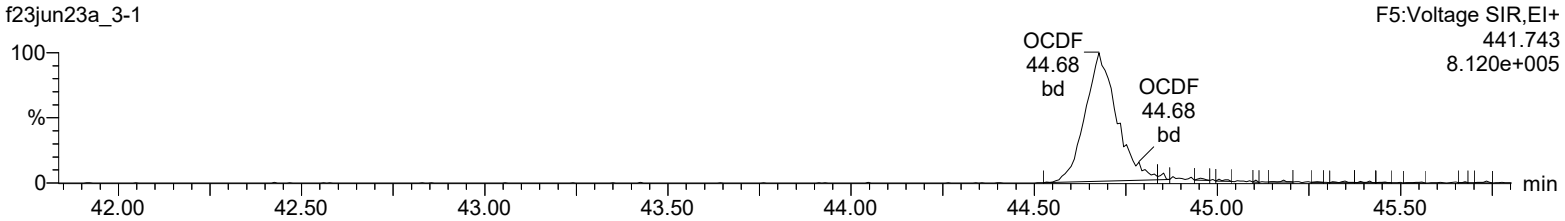
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

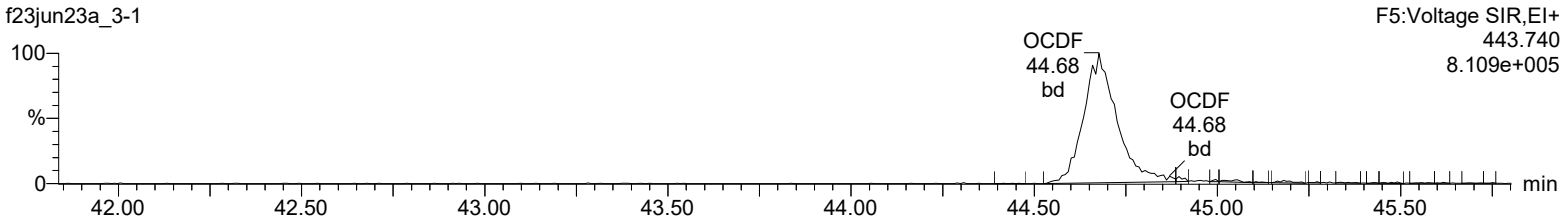
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-1, Date: 24-Jun-2023, Time: 08:48:51, ID: 12034326-1 LCS, Description: , Job: %613%, Task: HRP722_2, User: MW1

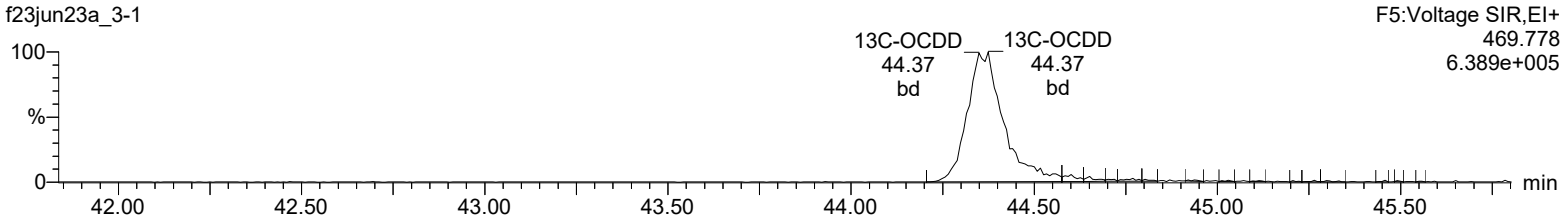
OCDF



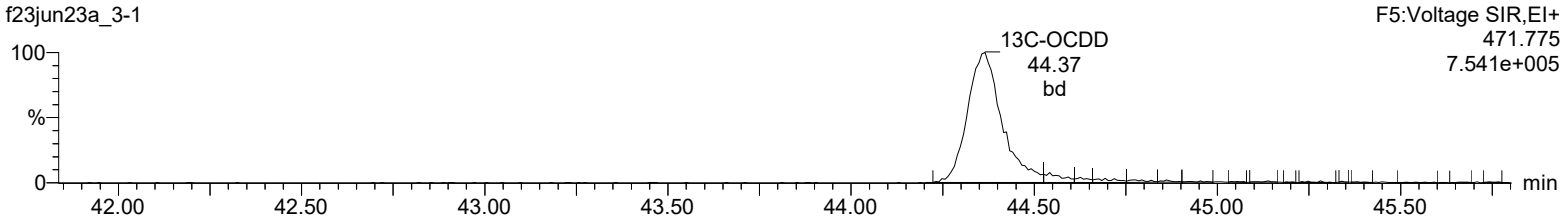
OCDF



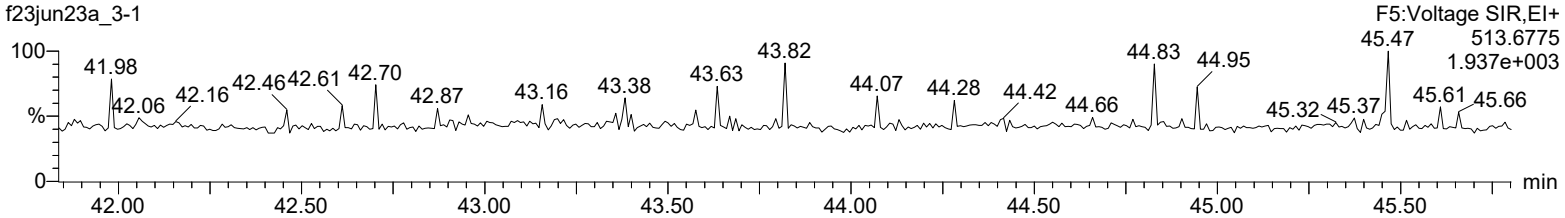
13C-OCDD



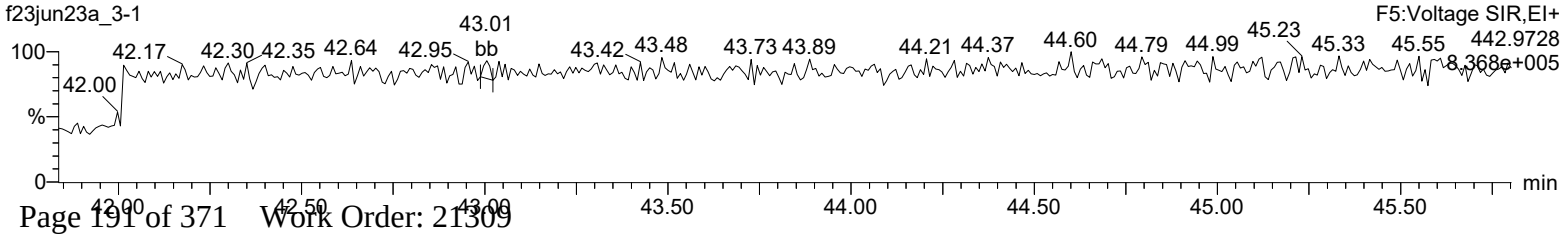
13C-OCDD



DeDPE



Lock Mass F5



Hi-Res Dioxins/Furans
Certificate of Analysis
Sample Summary

SDG Number:	**21309**	**Client:**	**HYGL001**	**Project:**	**HYGL00122**
Lab Sample ID:	**12034327**			**Matrix:**	**WATER**
Client Sample:	**QC for batch 52695**				
Client ID:	**LCSD for batch 52695**			**Prep Basis:**	**As Received**
Batch ID:	**52698**	**Method:**	**EPA Method 1613B**		
Run Date:	**06/24/2023 09:36**	**Analyst:**	**MW1**	**Instrument:**	**HRP722**
Data File:	**f23jun23a_3-2**			**Dilution:**	**1**
Prep Batch:	**52695**	**Prep Method:**	**SW846 3520C**		
Prep Date:	**23-MAY-23**	**Prep Aliquot:**	**1000 mL**		

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		213	pg/L	4.66	5.00
40321-76-4	1,2,3,7,8-PeCDD		998	pg/L	13.5	25.0
39227-28-6	1,2,3,4,7,8-HxCDD		991	pg/L	12.3	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		993	pg/L	11.6	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1050	pg/L	12.0	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1020	pg/L	17.8	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1980	pg/L	44.8	100
51207-31-9	2,3,7,8-TCDF		224	pg/L	3.36	10.0
57117-41-6	1,2,3,7,8-PeCDF		1040	pg/L	9.86	50.0
57117-31-4	2,3,4,7,8-PeCDF		1080	pg/L	9.38	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1010	pg/L	16.9	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1000	pg/L	15.1	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1030	pg/L	17.2	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1080	pg/L	24.6	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1090	pg/L	17.3	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1070	pg/L	27.2	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2240	pg/L	31.0	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1320	2000	pg/L	66.2	(20%-175%)
13C-1,2,3,7,8-PeCDD		1380	2000	pg/L	69.2	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1350	2000	pg/L	67.4	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	69.0	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1310	2000	pg/L	65.3	(22%-166%)
13C-OCDD		2300	4000	pg/L	57.4	(13%-199%)
13C-2,3,7,8-TCDF		1310	2000	pg/L	65.6	(22%-152%)
13C-1,2,3,7,8-PeCDF		1300	2000	pg/L	65.2	(21%-192%)
13C-2,3,4,7,8-PeCDF		1390	2000	pg/L	69.5	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1340	2000	pg/L	67.0	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1300	2000	pg/L	65.1	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1390	2000	pg/L	69.4	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1280	2000	pg/L	63.9	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1260	2000	pg/L	62.9	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1320	2000	pg/L	66.1	(20%-186%)
37Cl-2,3,7,8-TCDD		179	200	pg/L	89.7	(31%-191%)

Comments:

U **Analyte was analyzed for, but not detected above the specified detection limit.**

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

06/28/2023

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:19:45 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	8.69e3	1.14e4	2.01e4	31.30	1.001	0.76	NO	10.649	0.233	1.29e5	1116	115.8	1.66e5	1351	122.5	bd	bd
2	12378-PeCDD	4.55e4	2.88e4	7.43e4	34.15	1.000	1.58	NO	49.889	0.674	8.91e5	4136	215.5	5.07e5	3267	155.3	bd	bd
3	123478-HxCDD	3.47e4	2.70e4	6.17e4	36.77	1.001	1.29	NO	49.528	0.617	6.14e5	2057	298.5	4.67e5	3097	150.7	dd	bd
4	123678-HxCDD	4.28e4	3.34e4	7.62e4	36.86	1.001	1.28	NO	49.672	0.581	6.17e5	2057	300.1	4.67e5	3097	150.7	dd	dd
5	123789-HxCDD	4.17e4	3.08e4	7.25e4	37.08	1.007	1.35	NO	52.261	0.598	5.28e5	2057	256.5	4.30e5	3097	138.8	dd	dd
6	1234678-HpCDD	3.59e4	3.05e4	6.64e4	40.14	1.000	1.18	NO	50.927	0.892	4.16e5	2996	138.9	4.07e5	2644	154.0	bd	bb
7	OCDD	4.00e4	4.33e4	8.33e4	44.37	1.000	0.93	NO	98.888	2.24	3.93e5	4012	97.9	4.09e5	2555	160.1	bd	bd
8	2378-TCDF	1.75e4	2.16e4	3.91e4	30.58	1.001	0.81	NO	11.184	0.168	2.18e5	967	225.1	2.29e5	1489	153.9	bd	bd
9	12378-PeCDF	1.03e5	6.54e4	1.68e5	33.35	1.000	1.57	NO	51.803	0.493	2.29e6	8407	272.3	1.31e6	4922	265.5	bb	bd
10	23478-PeCDF	1.19e5	7.41e4	1.93e5	33.96	1.000	1.61	NO	54.198	0.469	2.43e6	8407	289.3	1.49e6	4922	302.0	bb	bb
11	123478-HxCDF	7.11e4	5.46e4	1.26e5	36.05	1.001	1.30	NO	50.414	0.846	1.19e6	7228	165.1	9.29e5	7015	132.4	bd	bd
12	123678-HxCDF	8.25e4	6.35e4	1.46e5	36.15	1.001	1.30	NO	50.121	0.754	1.25e6	7228	173.0	9.35e5	7015	133.3	dd	dd
13	234678-HxCDF	7.81e4	5.96e4	1.38e5	36.63	1.000	1.31	NO	51.345	0.862	1.16e6	7228	159.8	9.27e5	7015	132.1	bd	bd
14	123789-HxCDF	6.00e4	4.82e4	1.08e5	37.40	1.000	1.25	NO	53.809	1.23	7.94e5	7228	109.9	6.73e5	7015	96.0	dd	bd
15	1234678-HpCDF	7.73e4	7.15e4	1.49e5	38.88	1.000	1.08	NO	54.722	0.867	1.01e6	6221	161.7	9.73e5	6950	140.0	bd	bd
16	1234789-HpCDF	5.76e4	5.97e4	1.17e5	40.80	1.000	0.96	NO	53.446	1.36	6.68e5	6221	107.4	7.46e5	6950	107.4	bb	bd
17	OCDF	7.03e4	7.91e4	1.49e5	44.68	1.007	0.89	NO	112.085	1.55	6.50e5	3812	170.4	7.74e5	3355	230.7	bd	bd
18	13C-2378-TCDD	7.71e4	9.42e4	1.71e5	31.27	1.017	0.82	NO	66.198	0.454	1.08e6	2974	363.7	1.33e6	2690	495.7	bd	bd
19	13C-12378-PeCDD	7.79e4	4.99e4	1.28e5	34.14	1.110	1.56	NO	69.163	0.859	1.44e6	3417	420.9	9.41e5	4236	222.2	bb	bd
20	13C-123478-HxCDD	6.49e4	5.12e4	1.16e5	36.74	0.991	1.27	NO	67.415	1.29	1.09e6	5421	200.9	9.09e5	6238	145.8	bd	bd
21	13C-123678-HxCDD	8.14e4	6.27e4	1.44e5	36.83	0.993	1.30	NO	69.041	1.07	1.18e6	5421	217.2	9.04e5	6238	144.9	dd	dd
22	13C-1234678-HpCDD	5.56e4	5.06e4	1.06e5	40.14	1.082	1.10	NO	65.288	0.914	6.75e5	4414	152.8	6.23e5	3369	185.0	bd	bd
23	13C-OCDD	7.18e4	8.03e4	1.52e5	44.36	1.196	0.89	NO	114.760	1.13	6.24e5	3348	186.5	6.96e5	4506	154.5	bd	bd
24	13C-2378-TCDF	1.15e5	1.44e5	2.58e5	30.55	0.993	0.80	NO	65.570	0.214	1.20e6	1794	669.7	1.45e6	2266	640.3	bb	bd
25	13C-12378-PeCDF	1.61e5	9.35e4	2.55e5	33.34	1.084	1.73	NO	65.219	0.947	3.36e6	10457	321.1	1.89e6	7388	255.5	bd	bd
26	13C-23478-PeCDF	1.58e5	9.77e4	2.56e5	33.96	1.104	1.62	NO	69.500	1.01	3.15e6	10457	301.5	1.94e6	7388	263.1	bb	bd
27	13C-123478-HxCDF	6.00e4	1.16e5	1.76e5	36.03	0.971	0.52	NO	67.022	0.937	1.01e6	5923	171.0	1.92e6	6949	277.0	bd	bd
28	13C-123678-HxCDF	7.41e4	1.37e5	2.11e5	36.13	0.974	0.54	NO	65.117	0.757	1.20e6	5923	202.8	2.11e6	6949	303.1	dd	dd
29	13C-234678-HxCDF	6.76e4	1.21e5	1.89e5	36.62	0.987	0.56	NO	69.373	0.904	1.04e6	5923	175.9	1.90e6	6949	273.5	bd	bd
30	13C-123789-HxCDF	5.28e4	1.02e5	1.54e5	37.40	1.009	0.52	NO	63.853	1.02	7.58e5	5923	128.0	1.40e6	6949	201.2	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Wednesday, June 28, 2023 10:19:45 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	6.08e4	1.36e5	1.96e5	38.88	1.048	0.45	NO	62.915	1.00	8.49e5	6956	122.0	1.76e6	9389	187.0	bb	bb
32	13C-1234789-HpCDF	4.93e4	1.12e5	1.61e5	40.81	1.101	0.44	NO	66.115	1.28	5.42e5	6956	78.0	1.27e6	9389	135.5	bd	bb
33	13C-1234-TCDD	1.02e5	1.26e5	2.27e5	30.75	0.000	0.81	NO	100.000	0.517	1.23e6	2974	412.6	1.49e6	2690	555.5	bd	bd
34	13C-123789-HxCDD	1.14e5	8.93e4	2.03e5	37.08	0.000	1.27	NO	100.000	1.10	1.49e6	5421	275.0	1.15e6	6238	185.1	dd	dd
35	37Cl-2378-TCDD	2.29e4		2.29e4	31.30	1.018			8.965	0.103	3.25e5	1268	256.1				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

06/28/2023

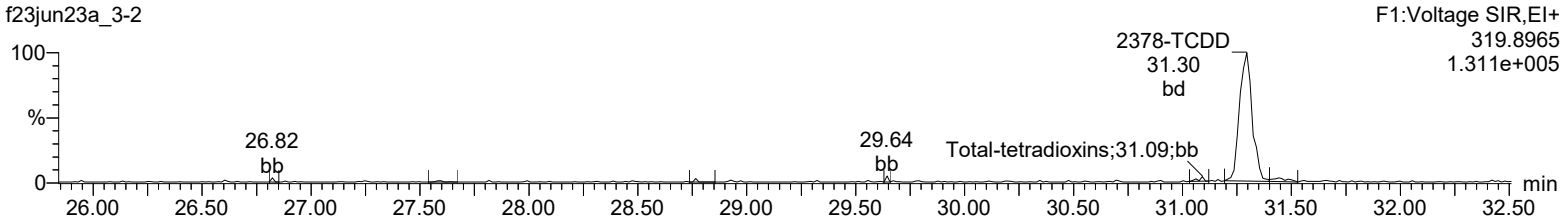
Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

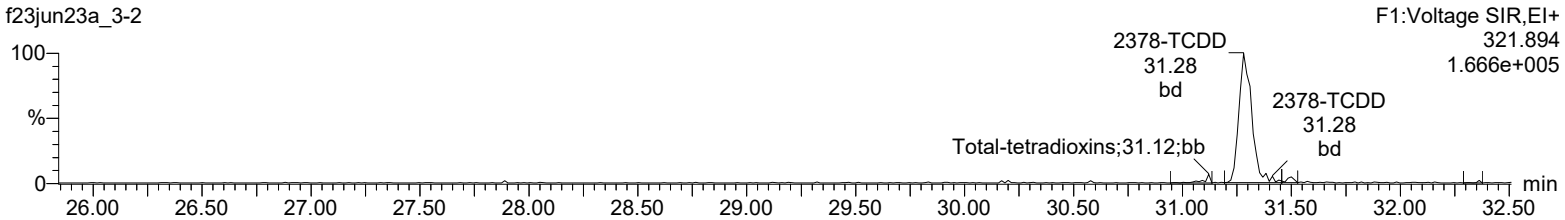
06/28/2023

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

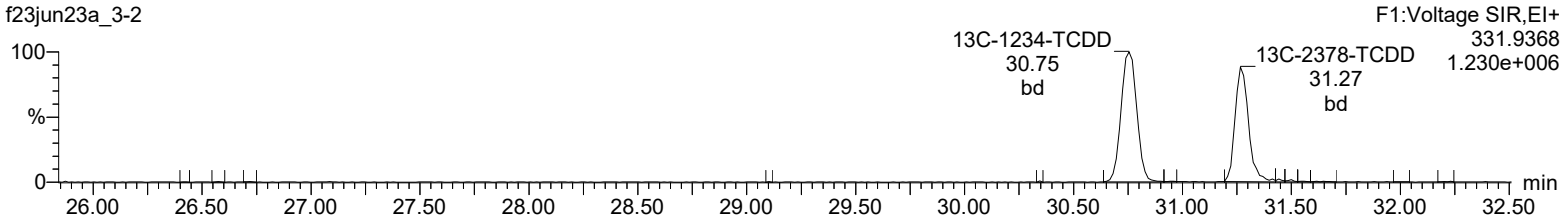
Total-tetradioxins



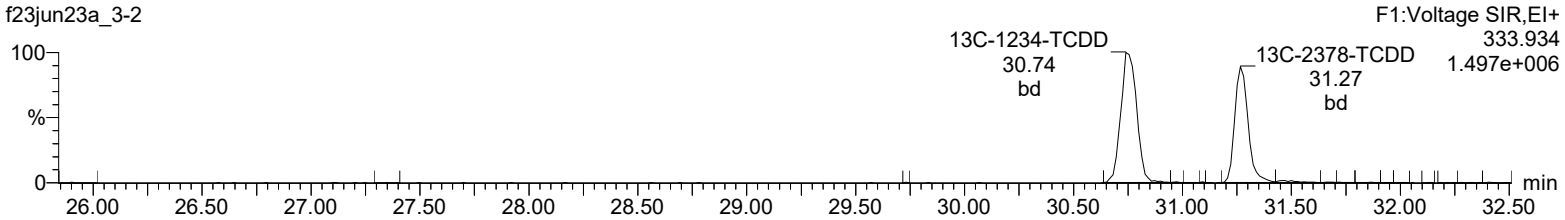
Total-tetradioxins



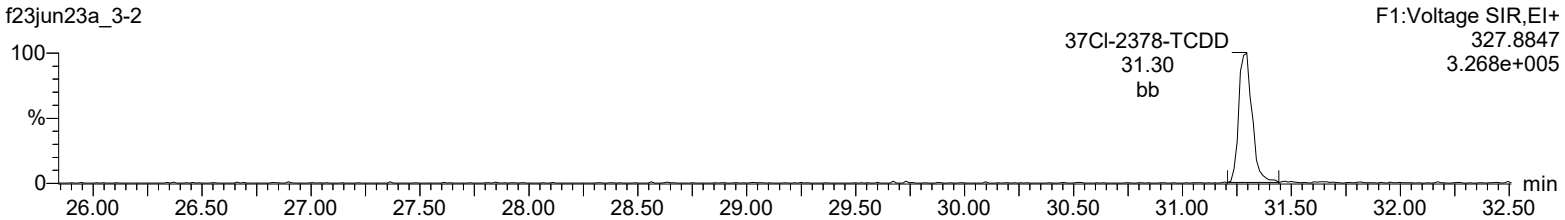
13C-2378-TCDD



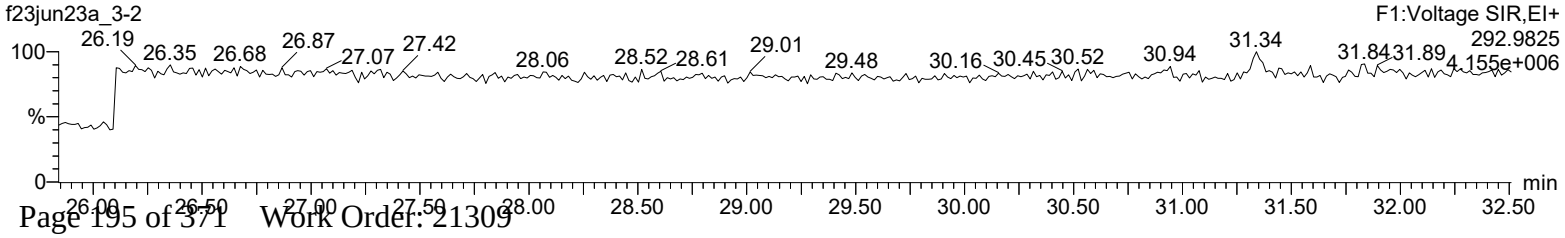
13C-2378-TCDD



37Cl-2378-TCDD



Lock Mass F1



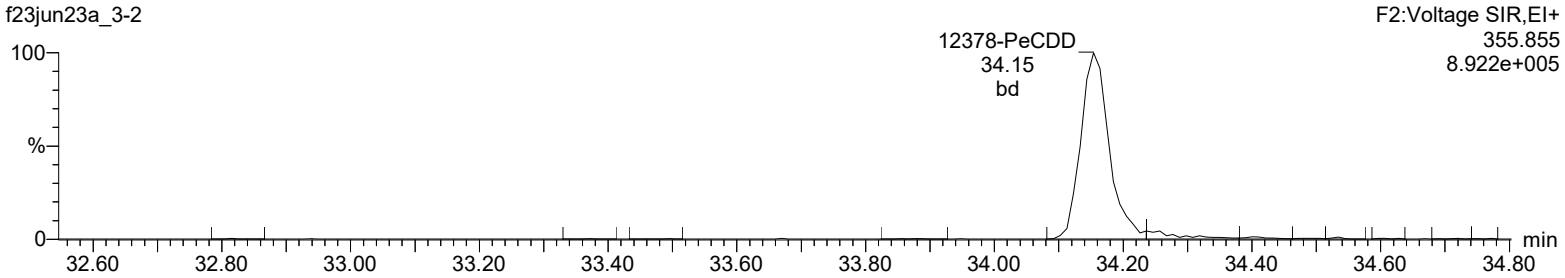
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

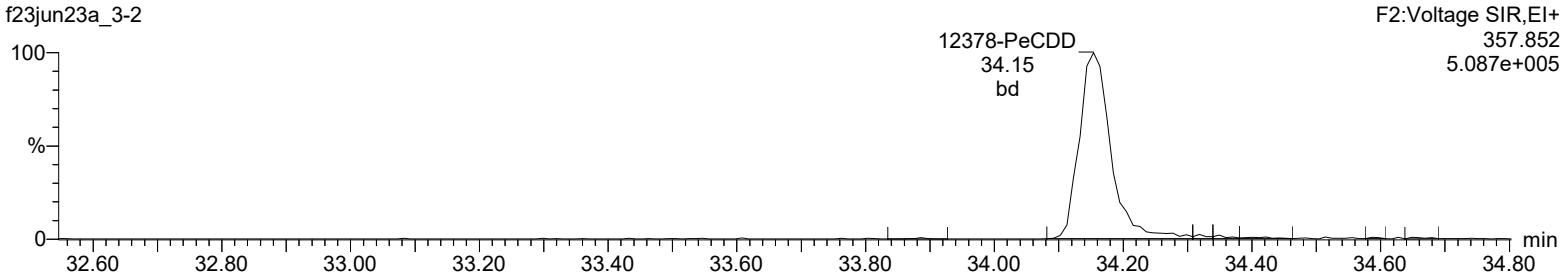
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

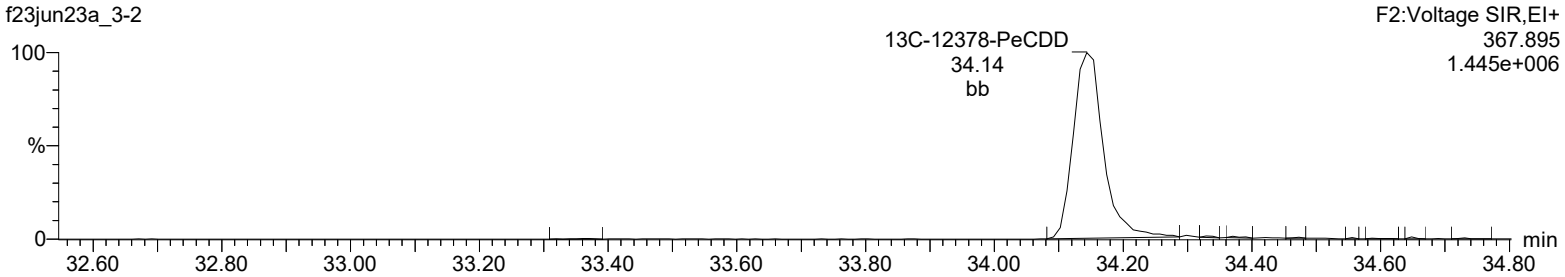
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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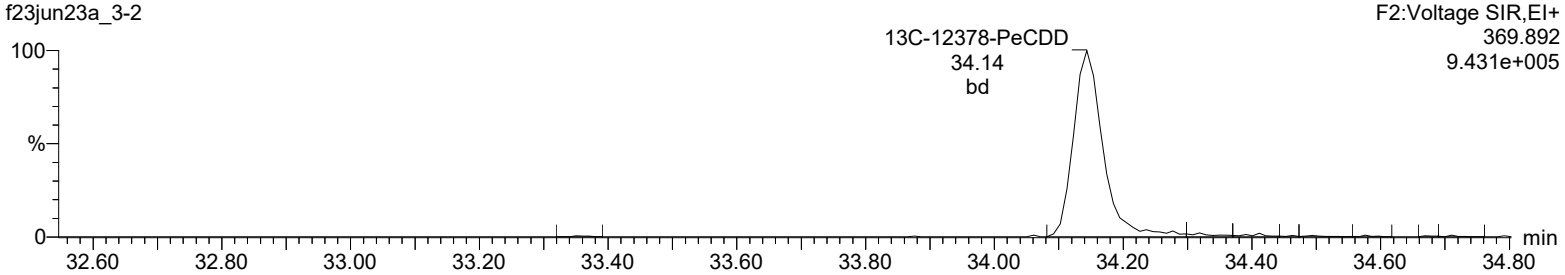
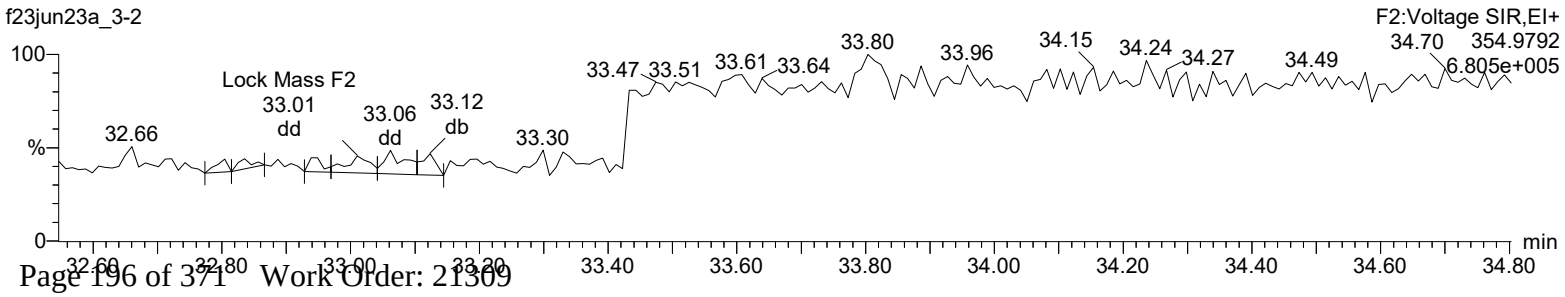


Lock Mass F2



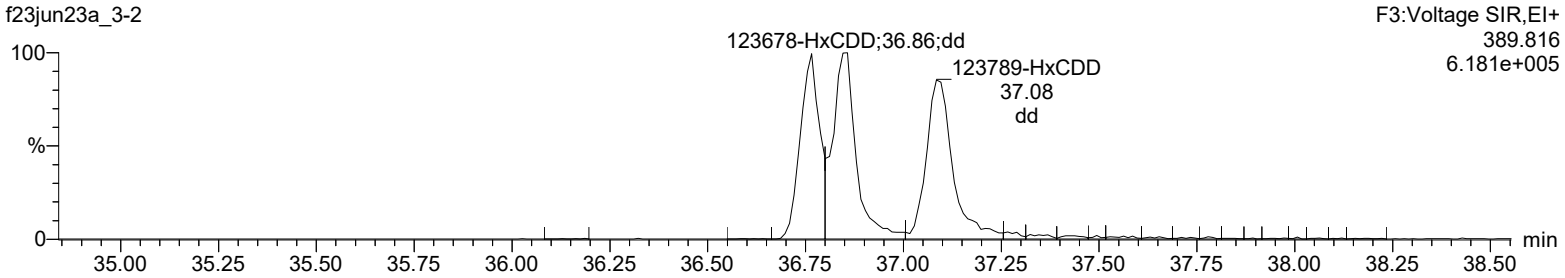
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

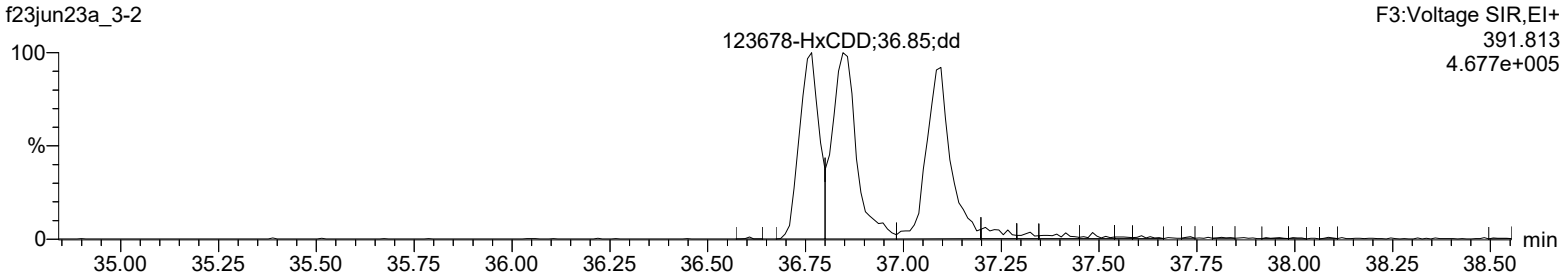
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

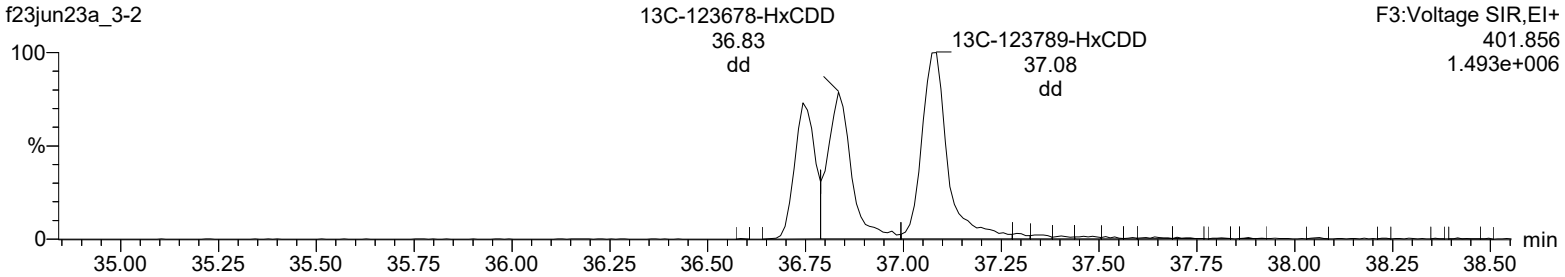
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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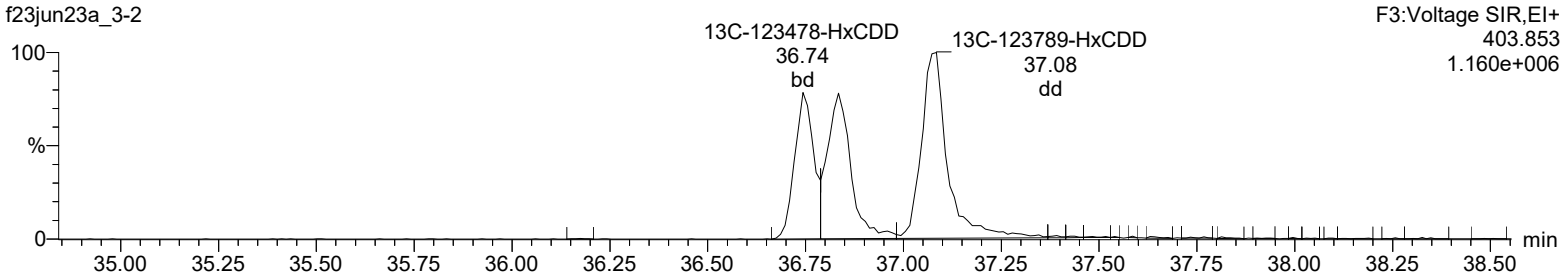
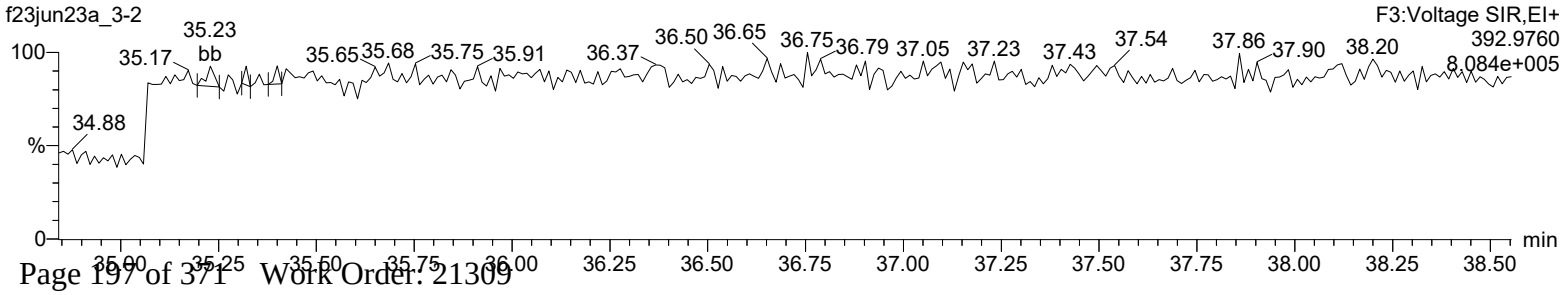


Lock Mass F3



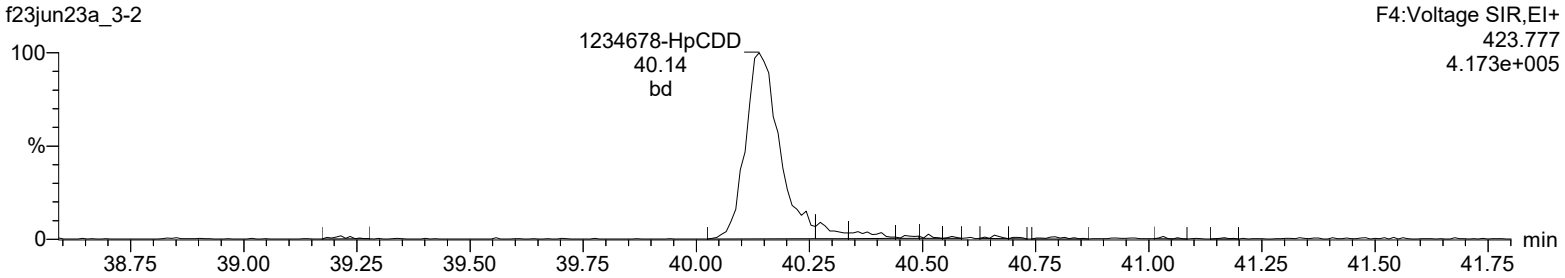
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

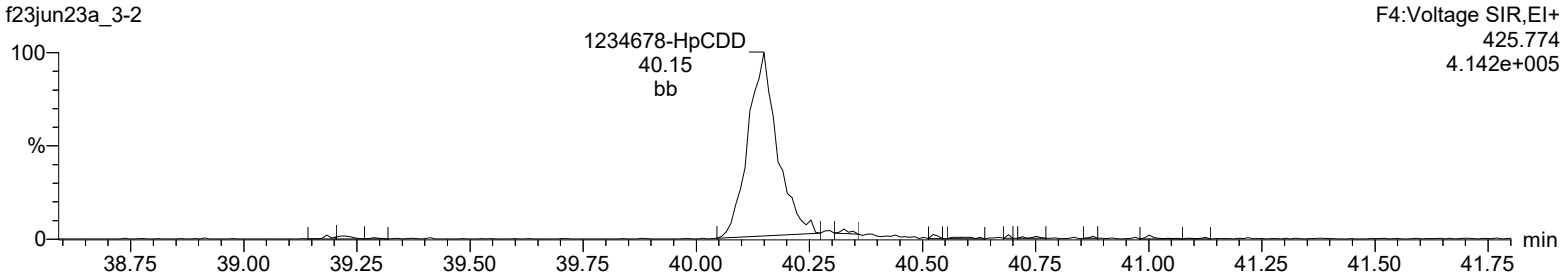
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

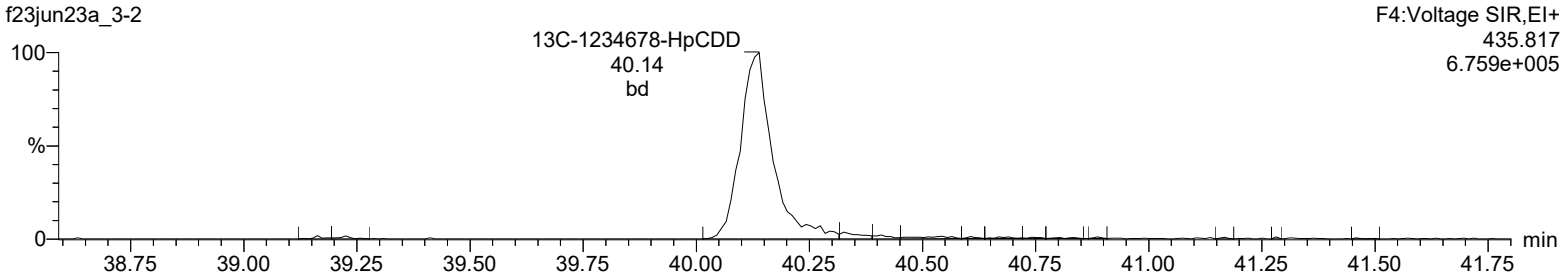
Total-heptadioxins



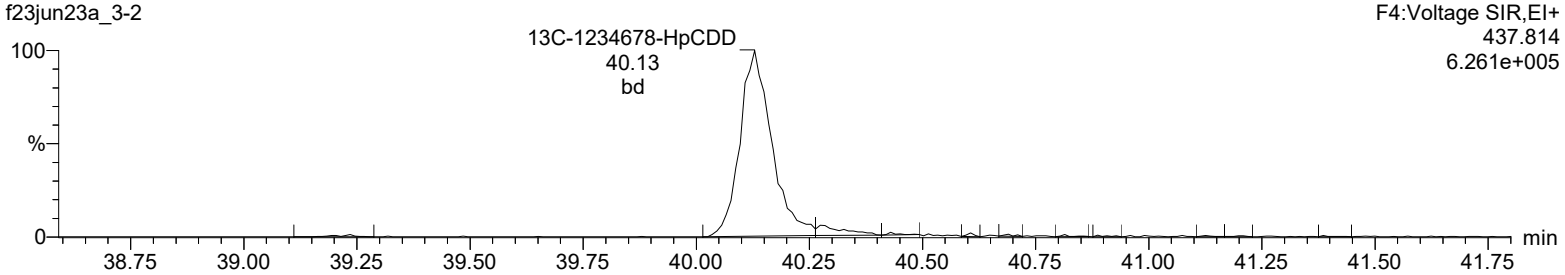
Total-heptadioxins



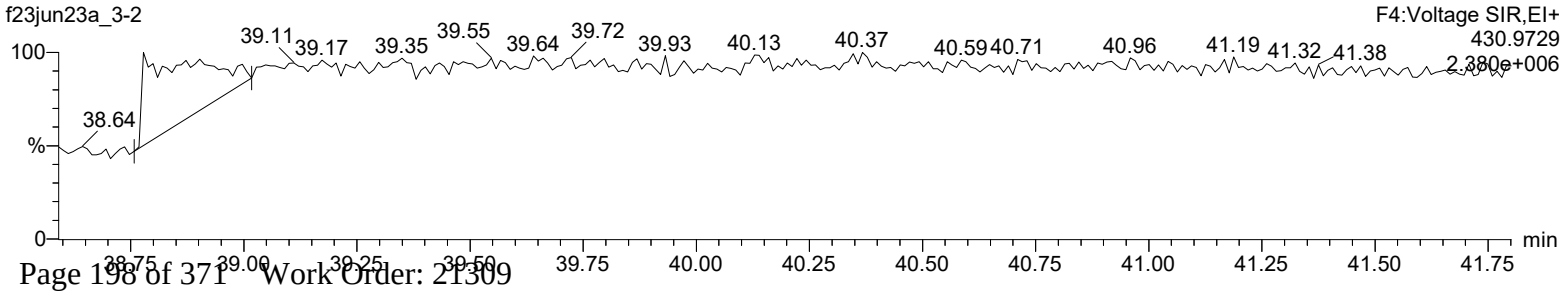
13C-1234678-HpCDD



13C-1234678-HpCDD



Lock Mass F4



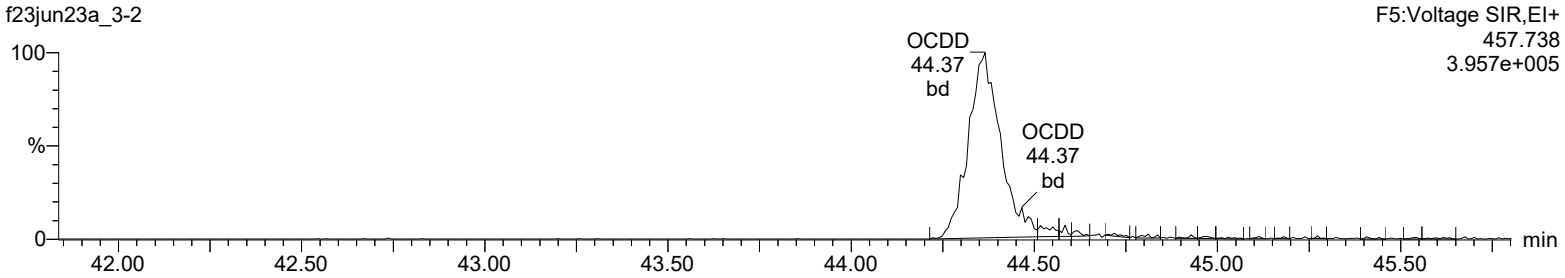
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

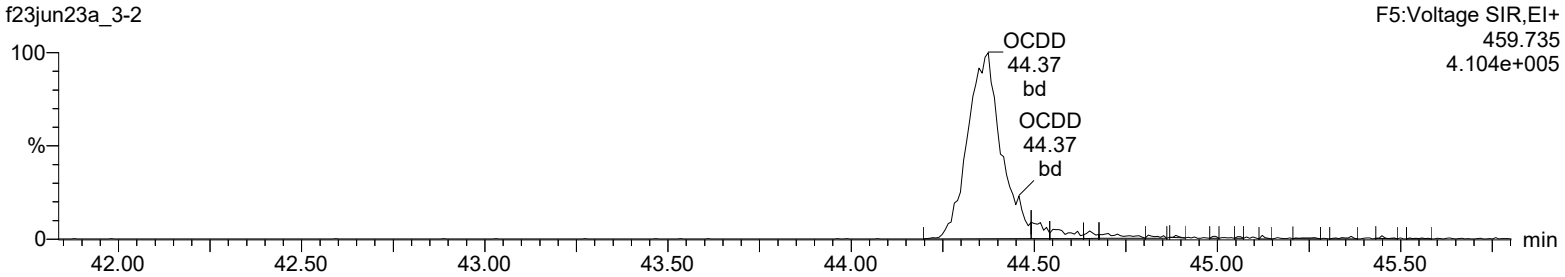
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

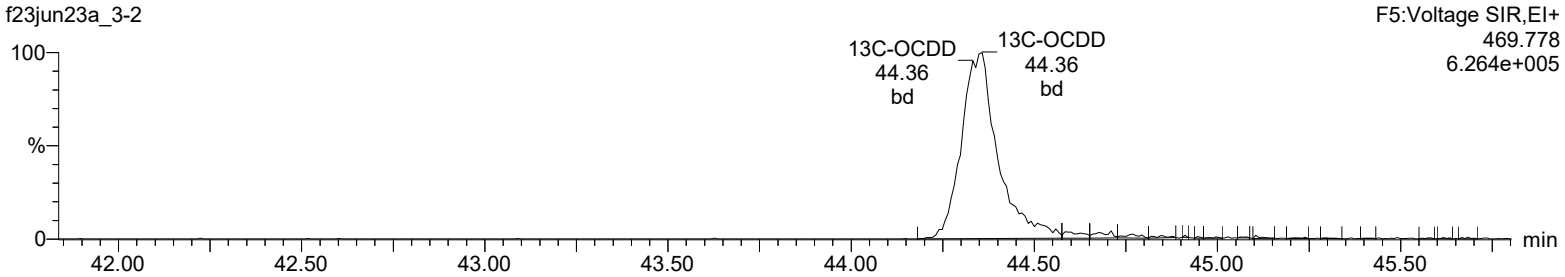
OCDD



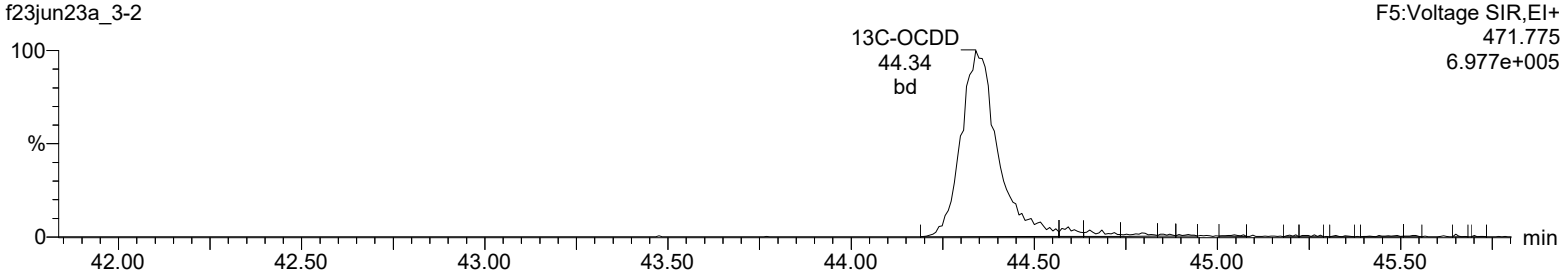
OCDD



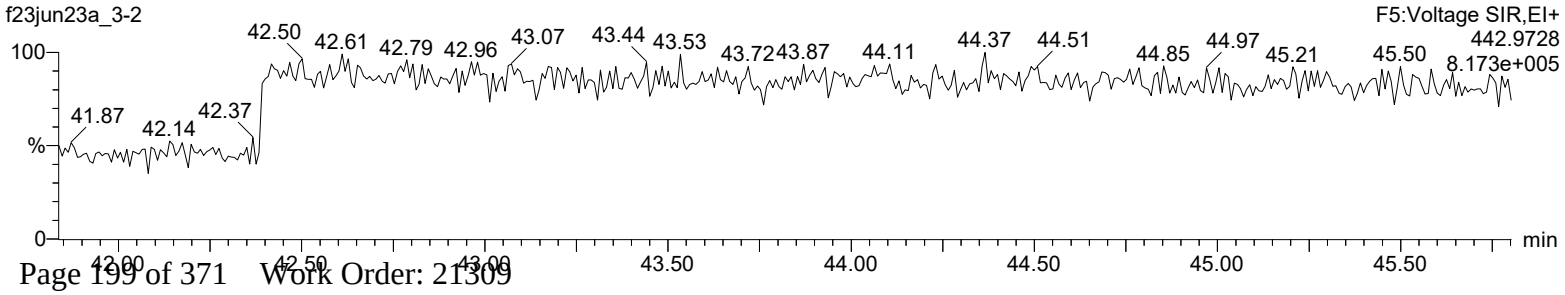
13C-OCDD



13C-OCDD



Lock Mass F5



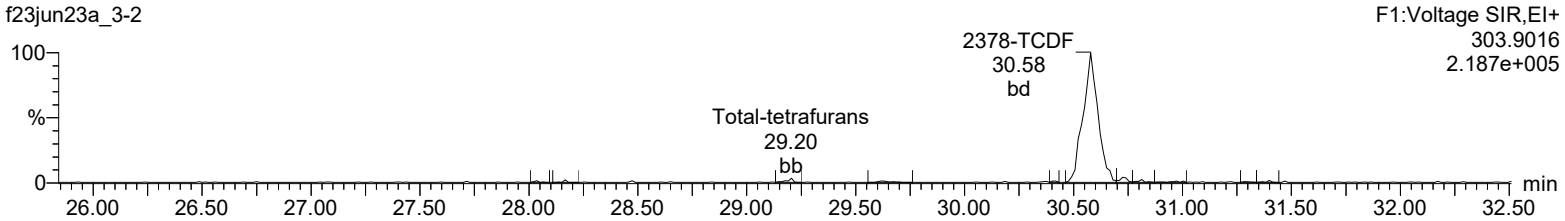
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

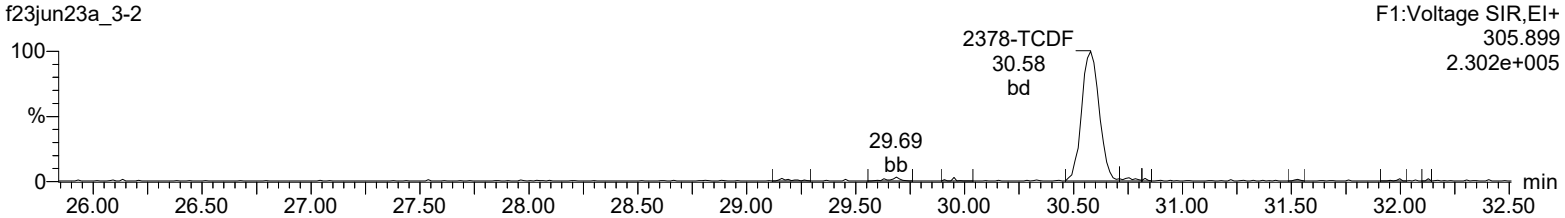
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

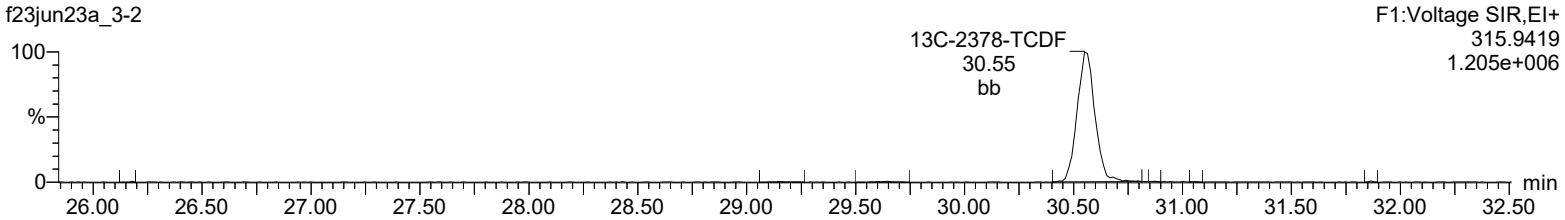
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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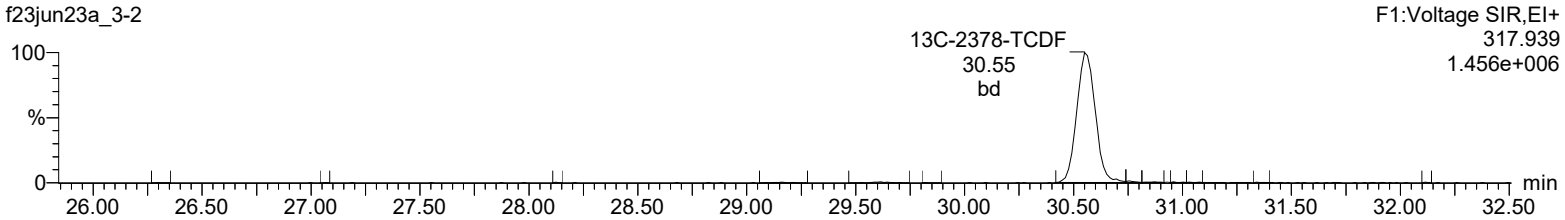
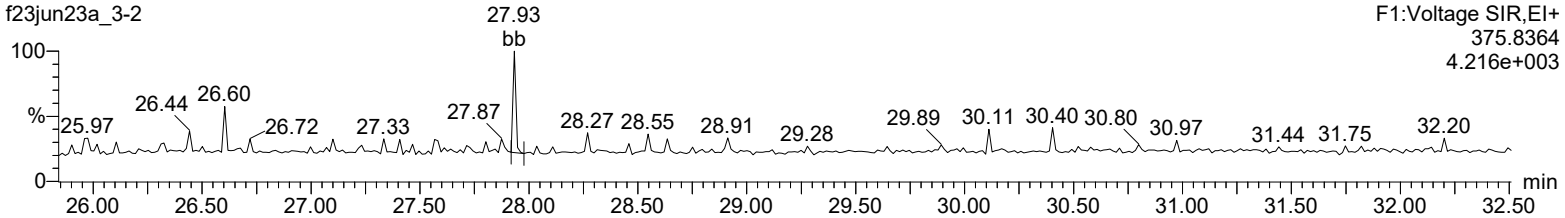
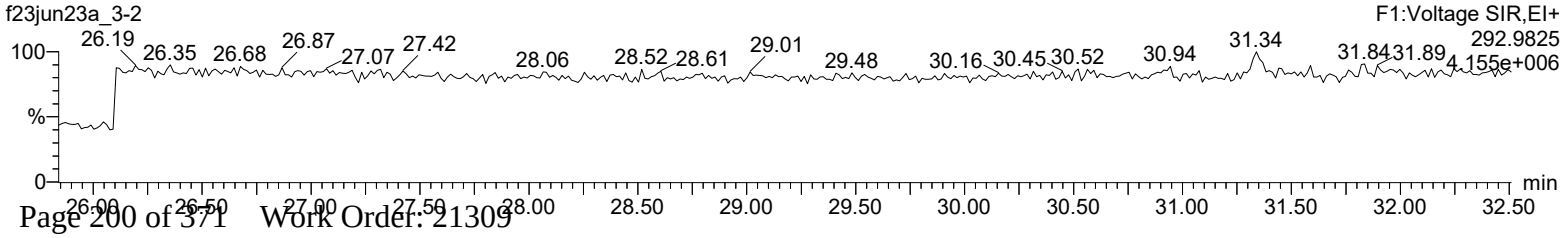


HxDPE



Lock Mass F1



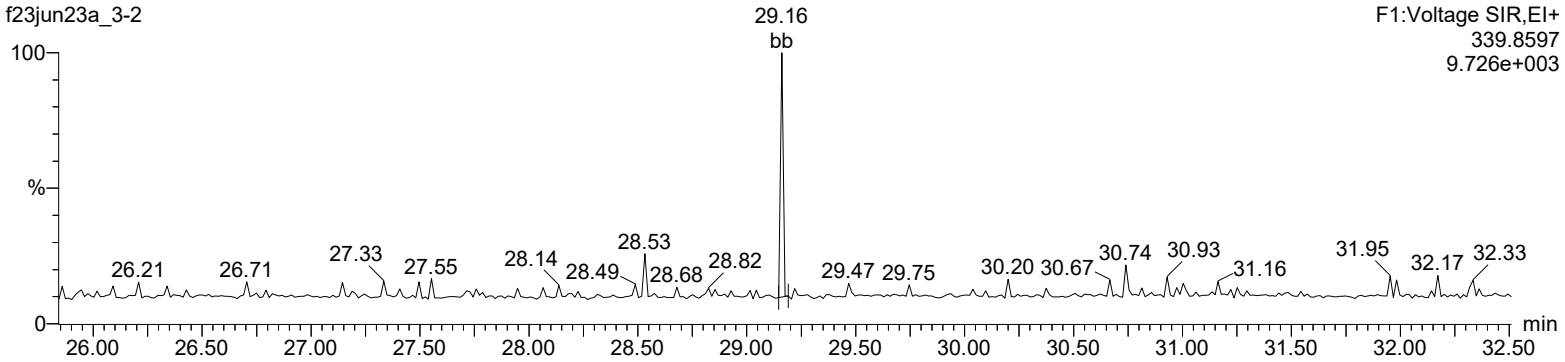
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

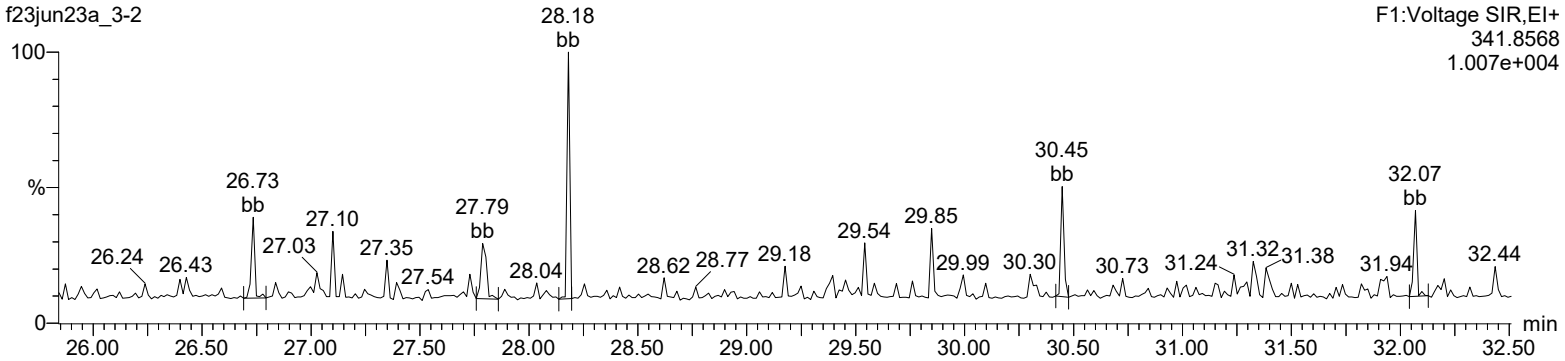
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

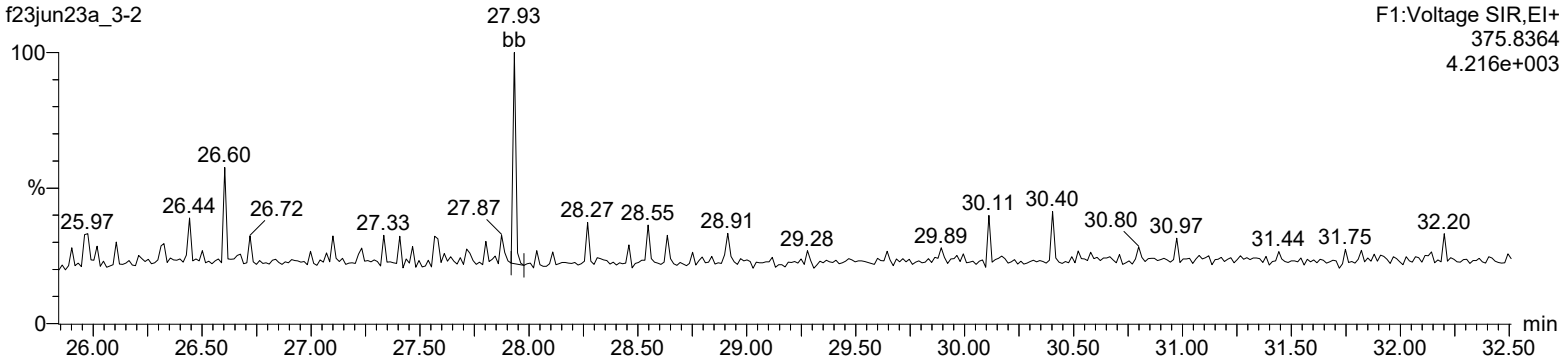
Total-pentafurans (F1)



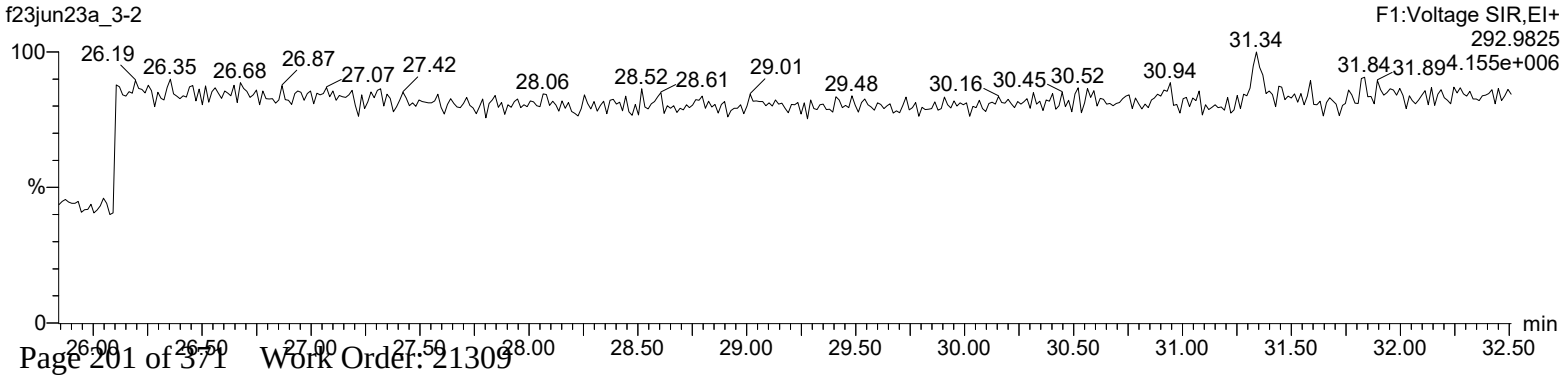
Total-pentafurans (F1)



HxDPE



Lock Mass F1



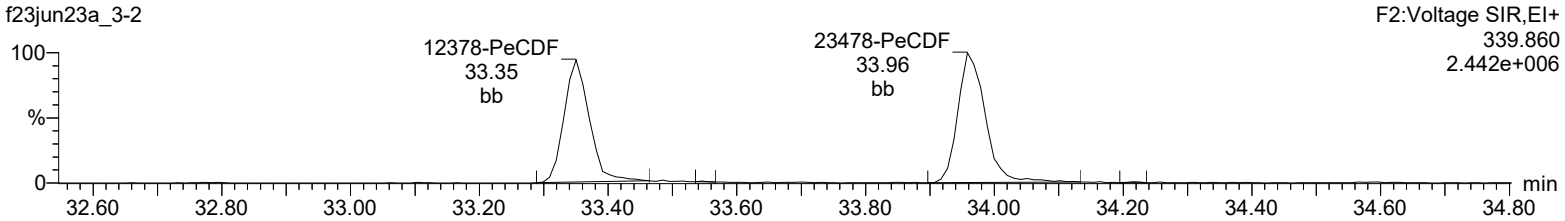
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

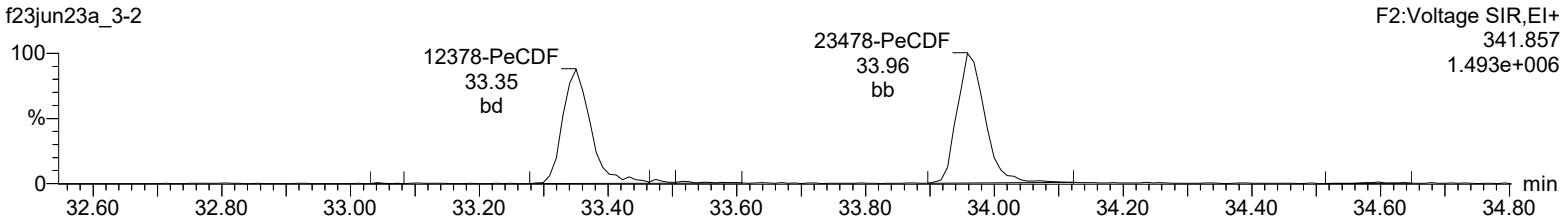
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

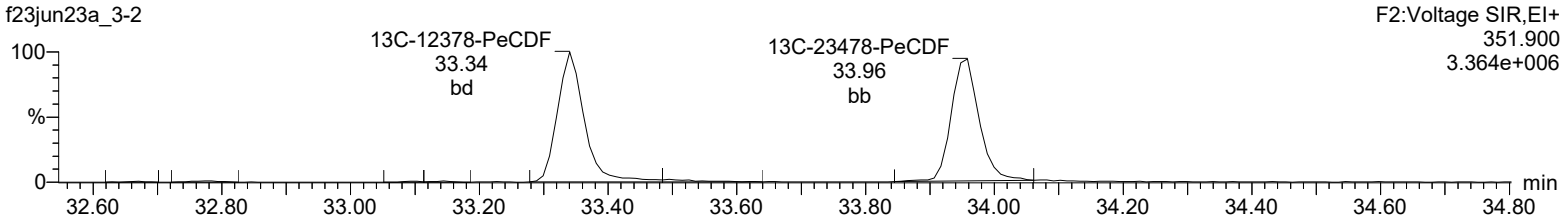
Total-pentafurans



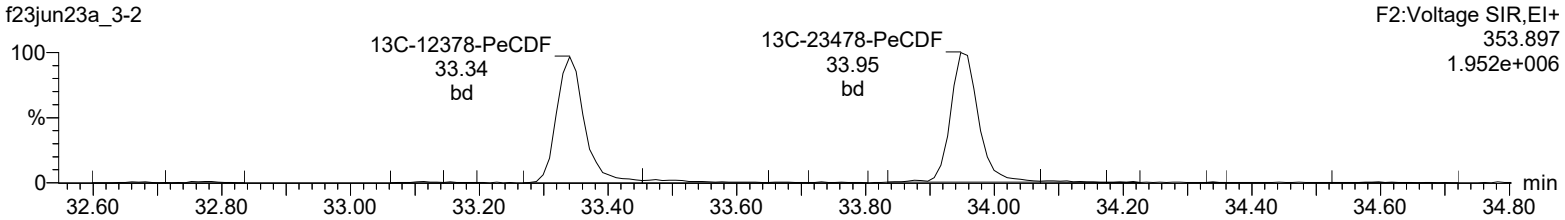
Total-pentafurans



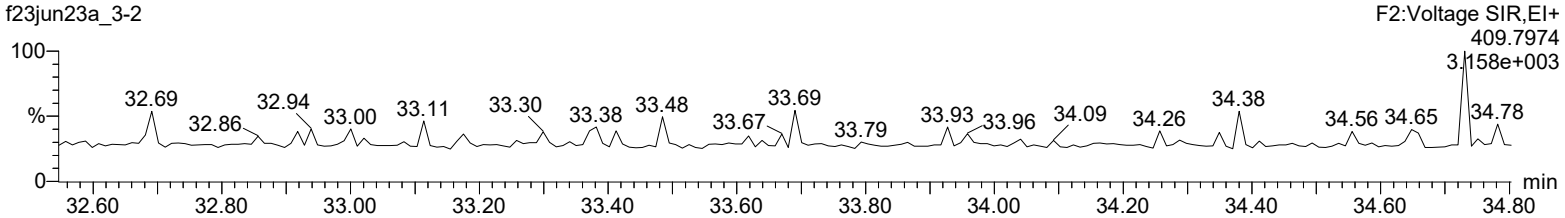
13C-12378-PeCDF



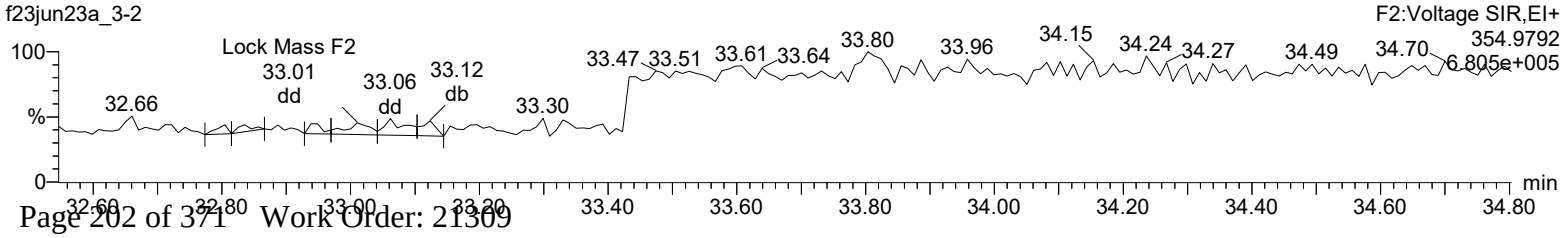
13C-12378-PeCDF



HpDPE



Lock Mass F2



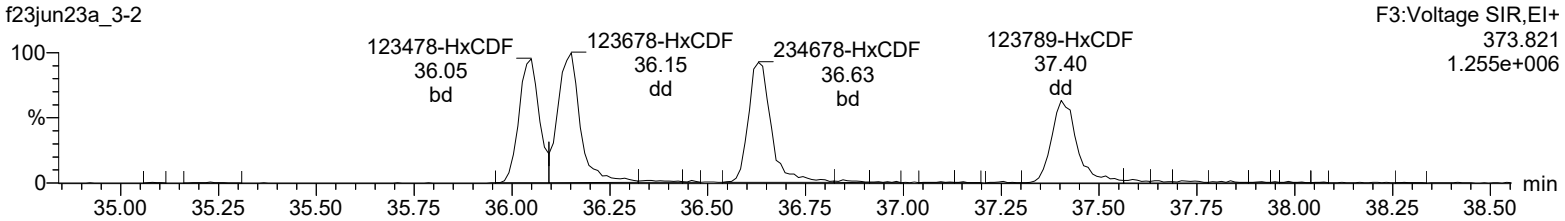
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

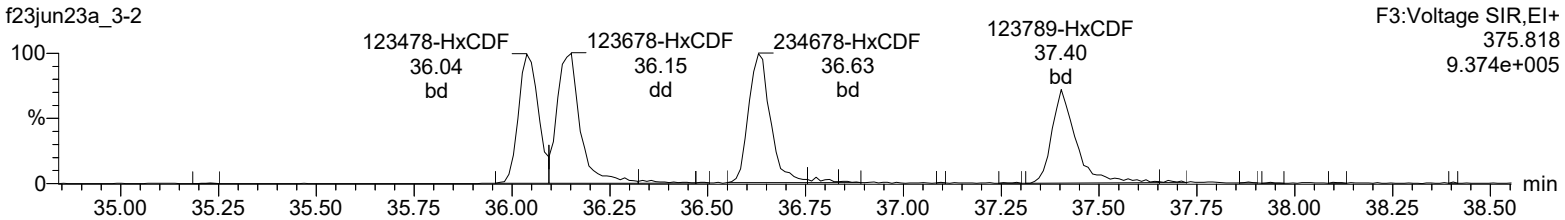
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

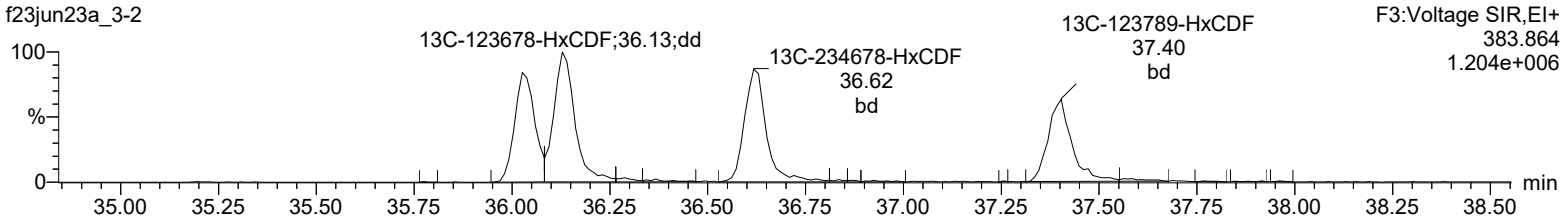
Total-hexafurans



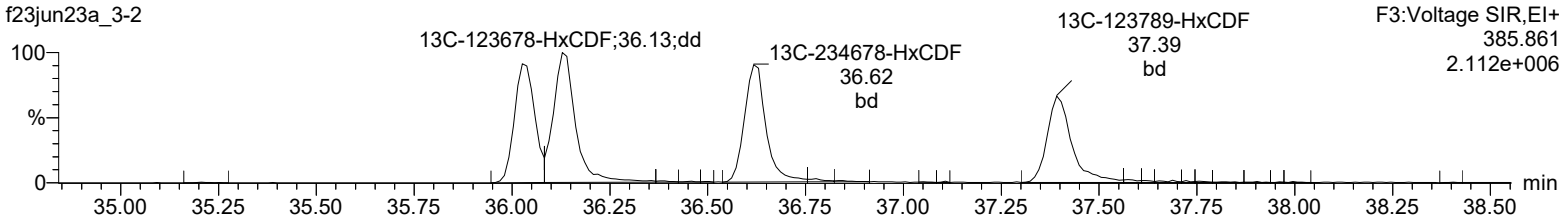
Total-hexafurans



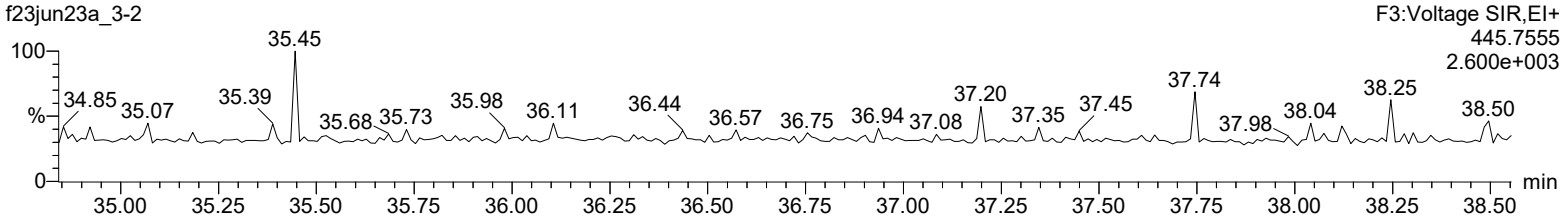
13C-123478-HxCDF



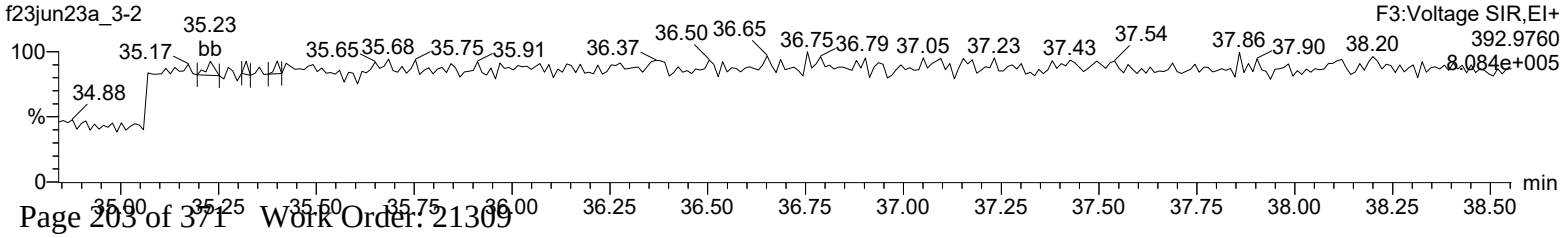
13C-123478-HxCDF



OcDPE



Lock Mass F3



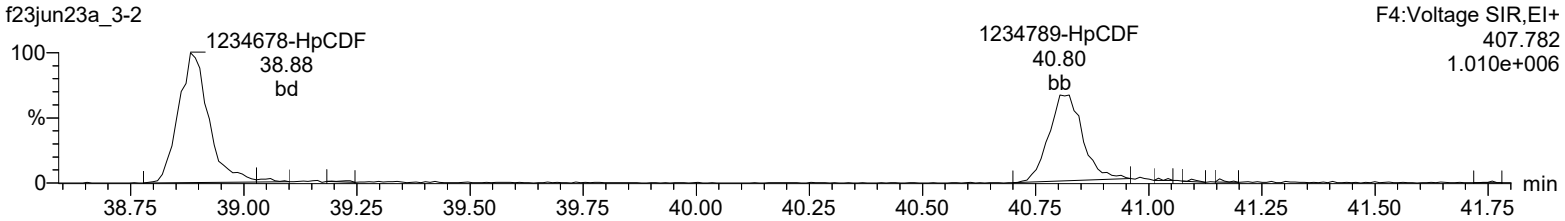
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

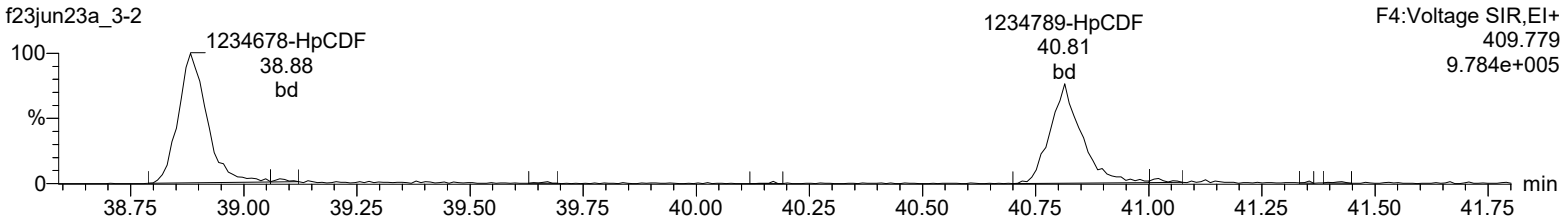
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

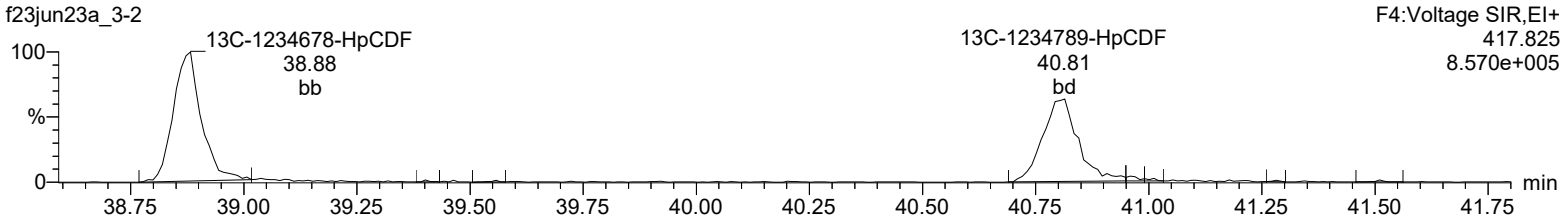
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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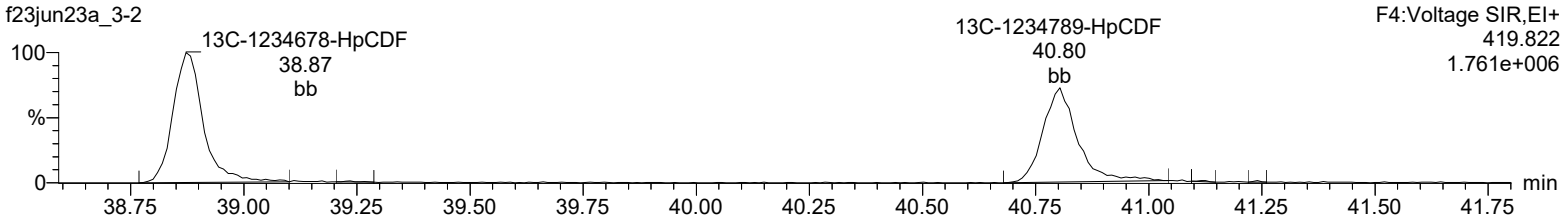
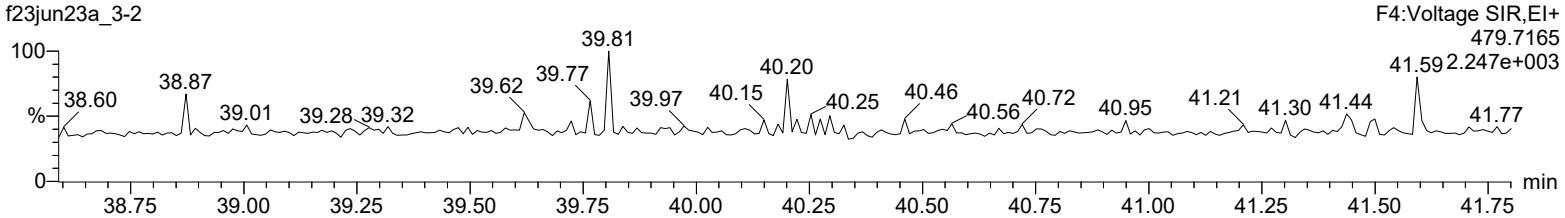
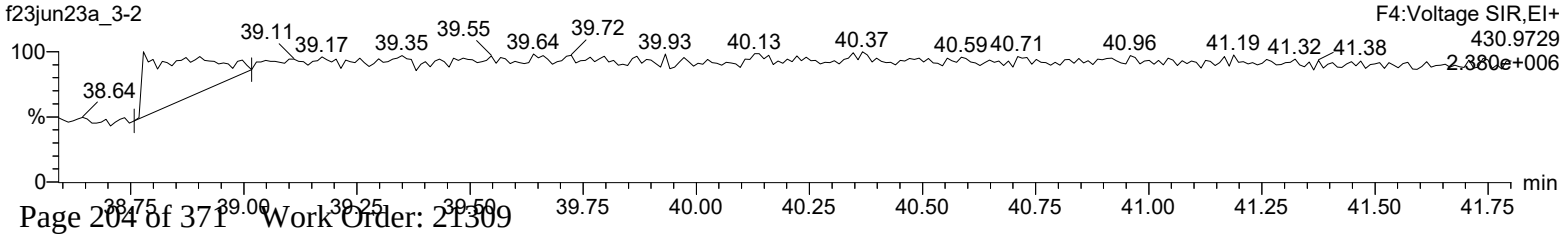


NoDPE



Lock Mass F4



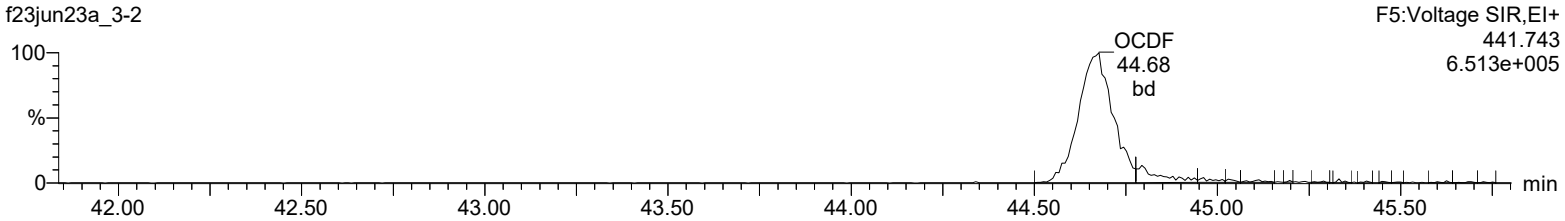
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 Quantification Report

Dataset: C:\MassLynx\Default.pro\Sample Results\1613-f23jun23a_3.qld

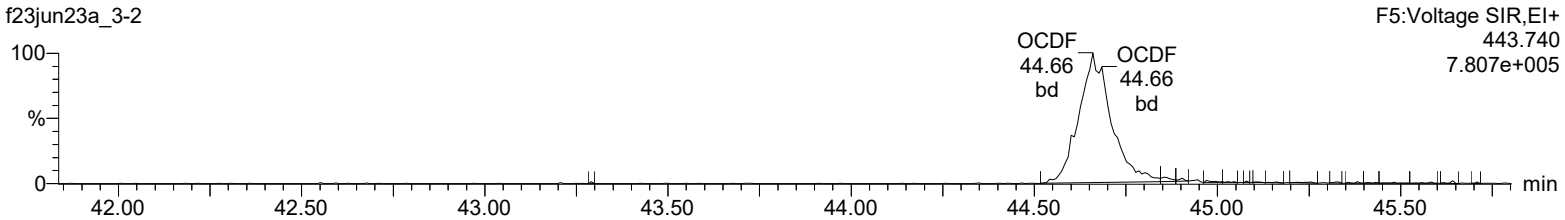
Last Altered: Monday, June 26, 2023 10:54:25 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:56:37 Eastern Daylight Time

Name: f23jun23a_3-2, Date: 24-Jun-2023, Time: 09:36:20, ID: 12034327-1 LCSD, Description: , Job: %613%, Task: HRP722_2, User: MW1

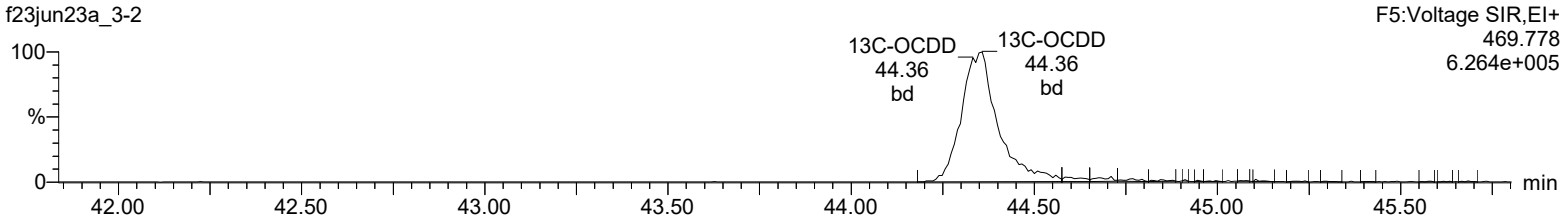
OCDF



OCDF



13C-OCDD



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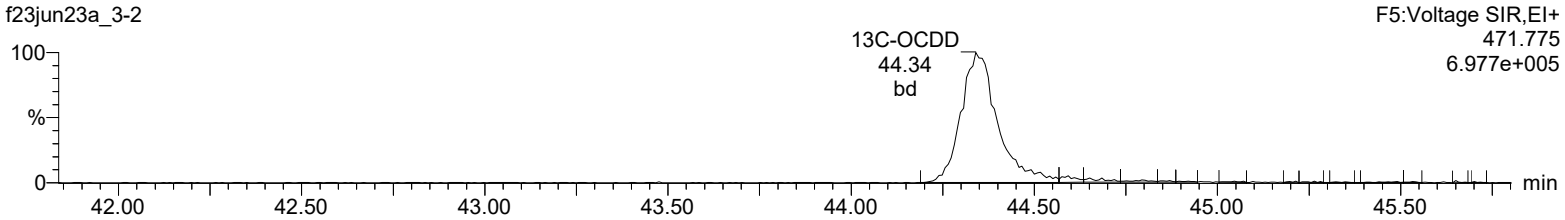
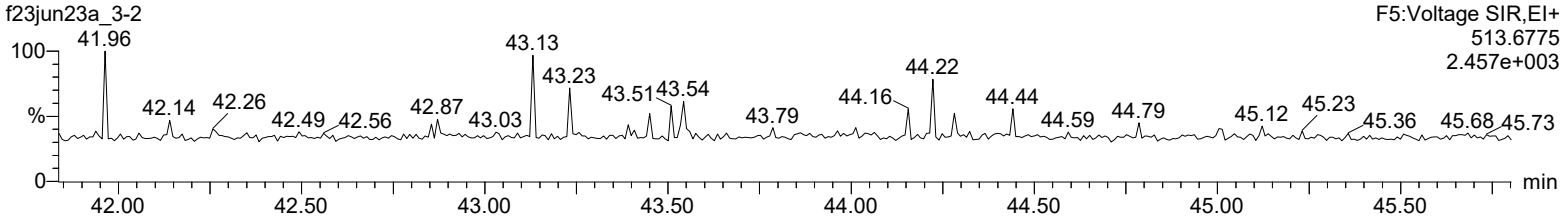
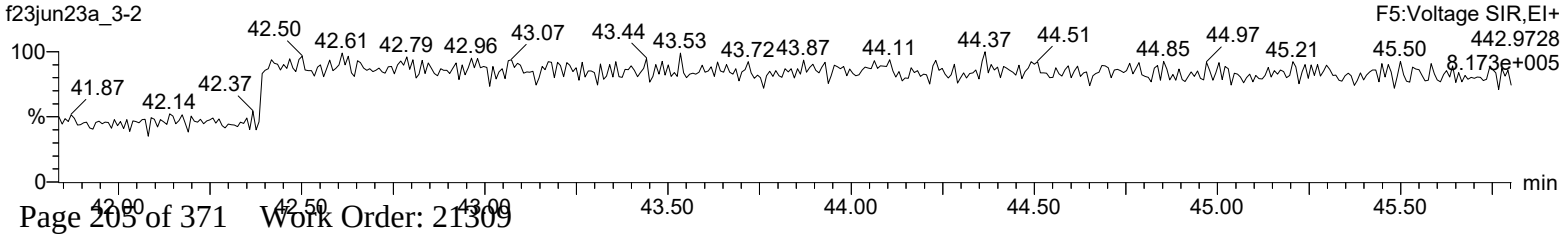


DeDPE



Lock Mass F5



Initial Calibration Data

RUN LOG

06/06/2023 06/06/2023

Instrument: HRP722_2

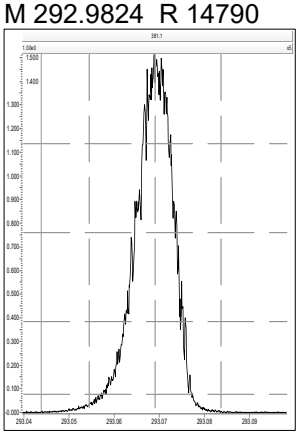
Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f01jun23d-1	01-JUN-2023 19:02:31	Skye McKinnon	CS3WT UD230328-04.1 CPSZS		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-2	01-JUN-2023 19:50:39	Skye McKinnon	SB DIBLKCJ		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-3	01-JUN-2023 20:39:34	Skye McKinnon	CS0.5 UD230407-01.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-4	01-JUN-2023 21:28:29	Skye McKinnon	CS1 UD220929-05 CS153		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-5	01-JUN-2023 22:17:23	Skye McKinnon	CS2 UD220929-06 CS254		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-6	01-JUN-2023 23:06:18	Skye McKinnon	CS3 UD220929-07 CS3AF		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-7	01-JUN-2023 23:55:11	Skye McKinnon	CS4 UD220929-08 CS453		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-8	02-JUN-2023 00:44:05	Skye McKinnon	CS5 UD220929-09 CS553		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-9	02-JUN-2023 01:33:00	Skye McKinnon	SB DIBLKCK		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f01jun23d-10	02-JUN-2023 02:21:55	Skye McKinnon	CS3WT UD230328-04.1 CPSZT		1 uL	dioxin_db5ms-hrp722_2	10K_DX

File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

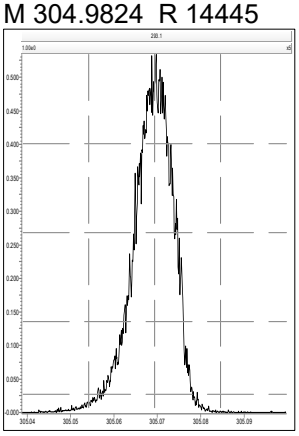
Printed: Thursday, June 01, 2023 18:42:07 Eastern Daylight Time

06/02/2023 06/02/2023

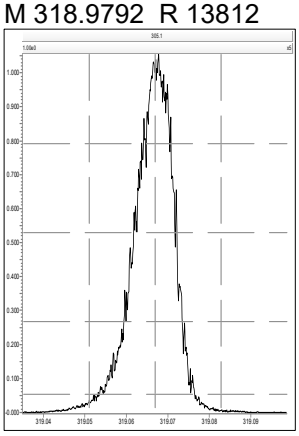
M 292.9824 R 14790



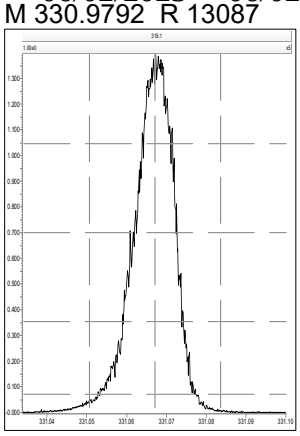
M 304.9824 R 14445



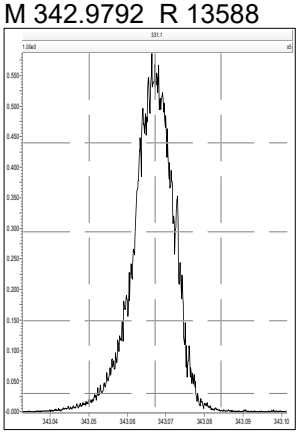
M 318.9792 R 13812



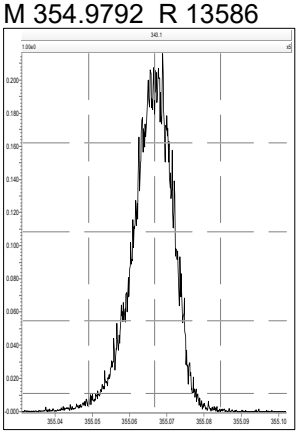
M 330.9792 R 13087



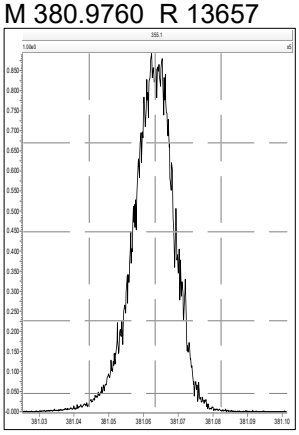
M 342.9792 R 13588



M 354.9792 R 13586



M 380.9760 R 13657

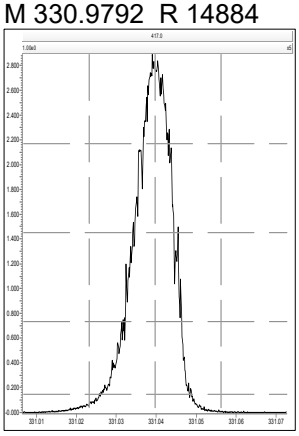


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

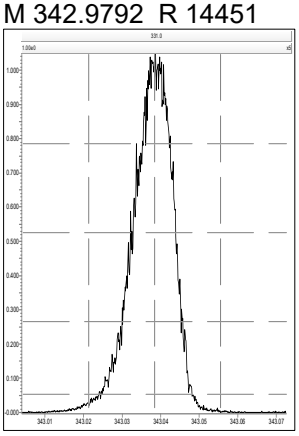
Printed: Thursday, June 01, 2023 18:43:07 Eastern Daylight Time

06/02/2023 06/02/2023

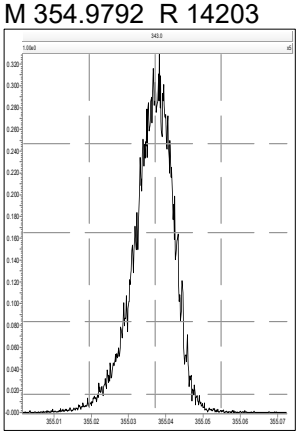
M 330.9792 R 14884



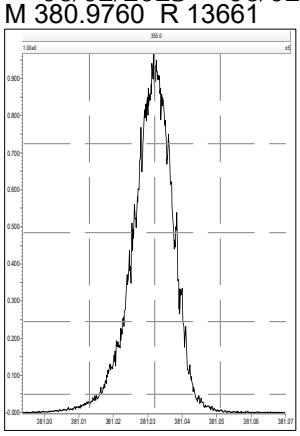
M 342.9792 R 14451



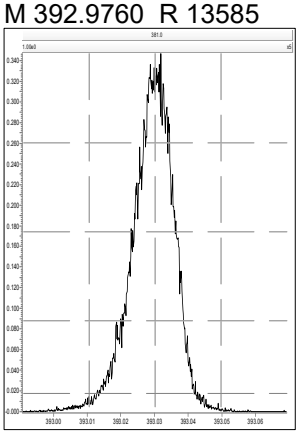
M 354.9792 R 14203



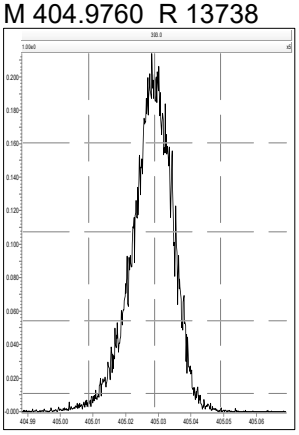
M 380.9760 R 13661



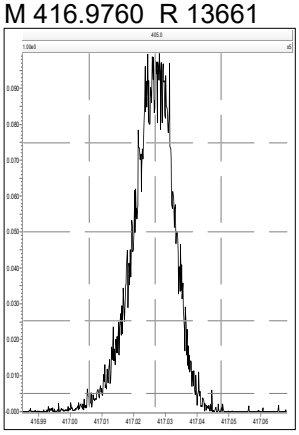
M 392.9760 R 13585



M 404.9760 R 13738



M 416.9760 R 13661

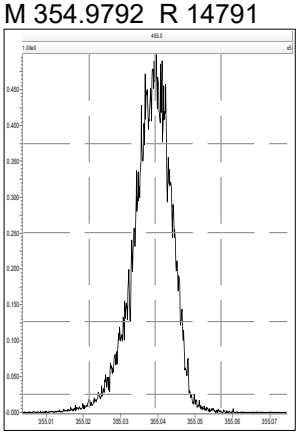


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

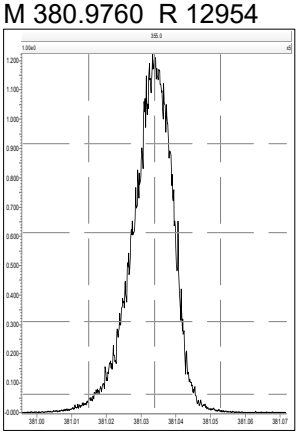
Printed: Thursday, June 01, 2023 18:43:59 Eastern Daylight Time

06/02/2023 06/02/2023

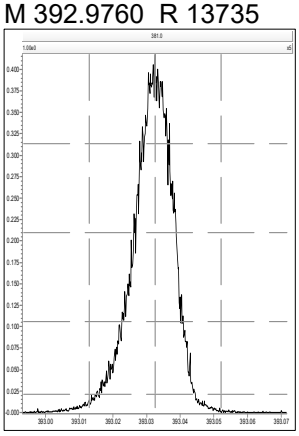
M 354.9792 R 14791



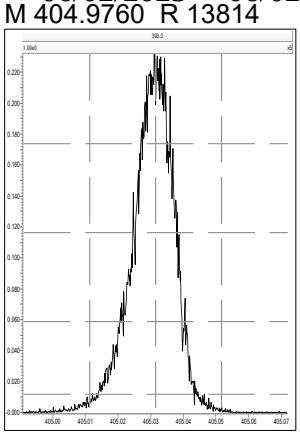
M 380.9760 R 12954



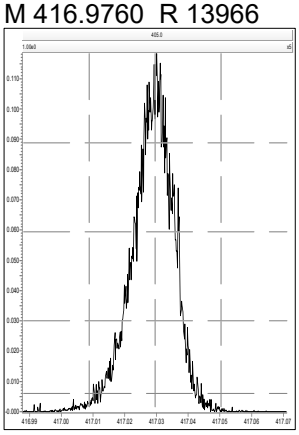
M 392.9760 R 13735



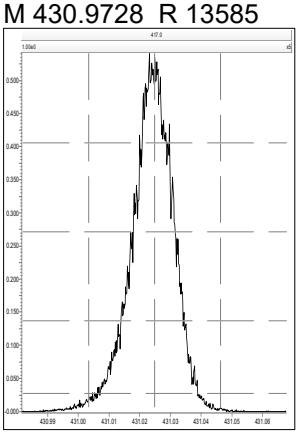
M 404.9760 R 13814



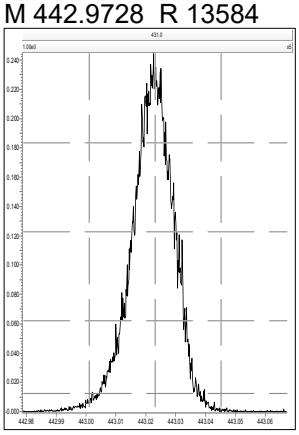
M 416.9760 R 13966



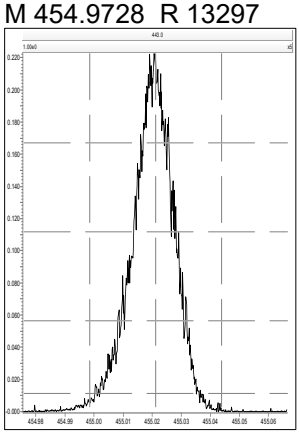
M 430.9728 R 13585



M 442.9728 R 13584



M 454.9728 R 13297

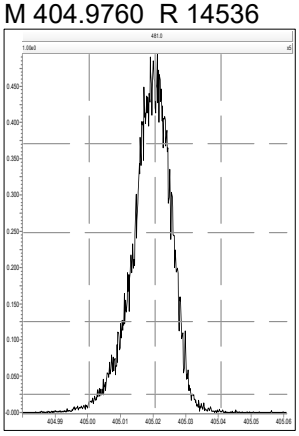


File: Experiment: dioxin_db5ms-hrp722_2.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

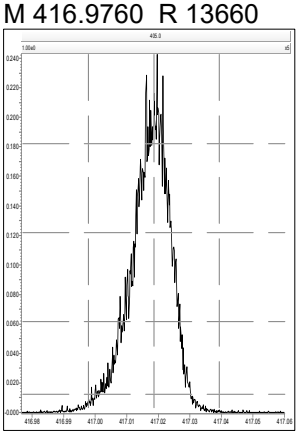
Printed: Thursday, June 01, 2023 18:44:20 Eastern Daylight Time

06/02/2023 06/02/2023

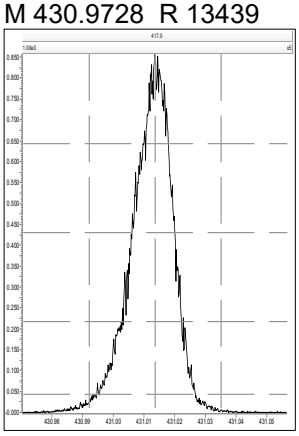
M 404.9760 R 14536



M 416.9760 R 13660



M 430.9728 R 13439



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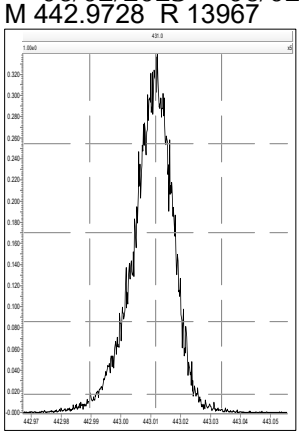

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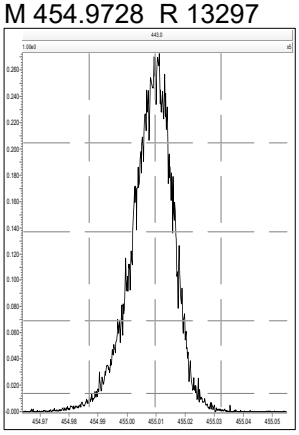

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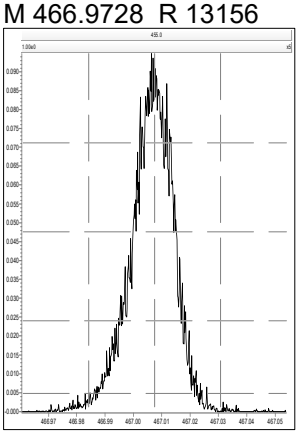

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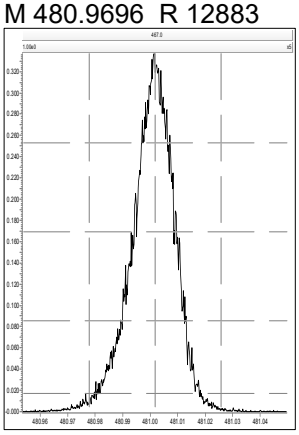

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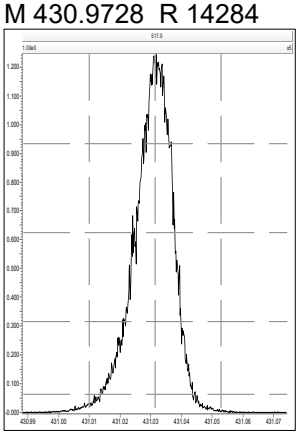

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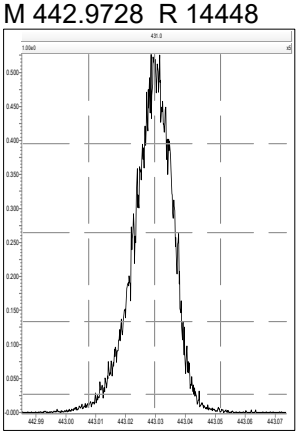

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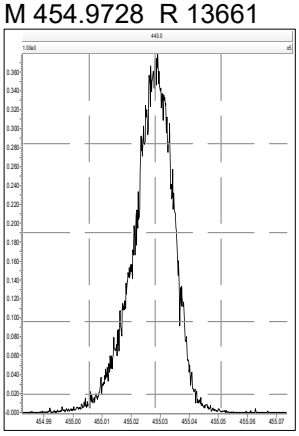

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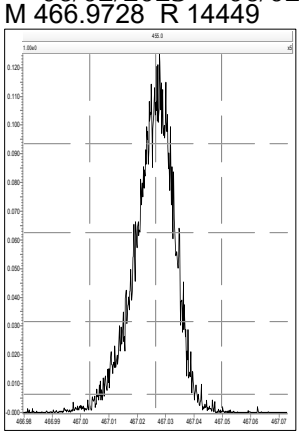

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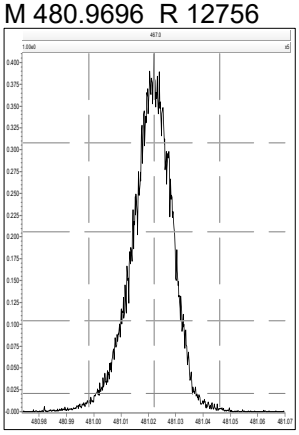

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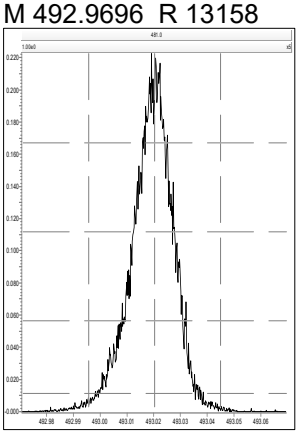

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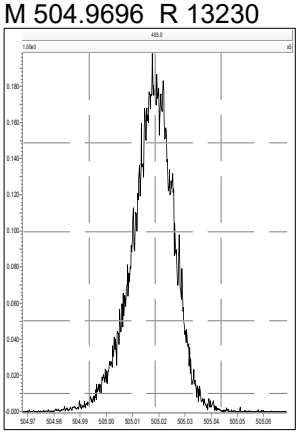

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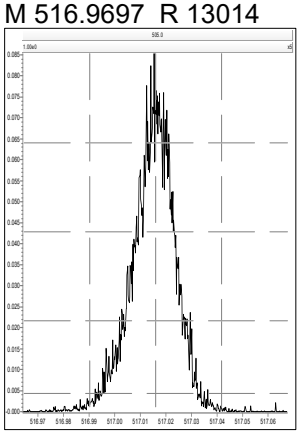

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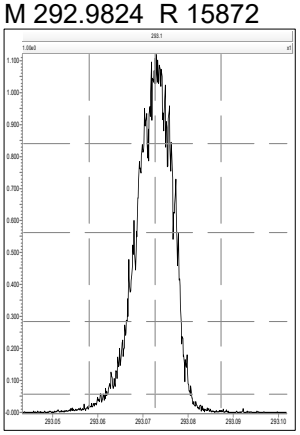

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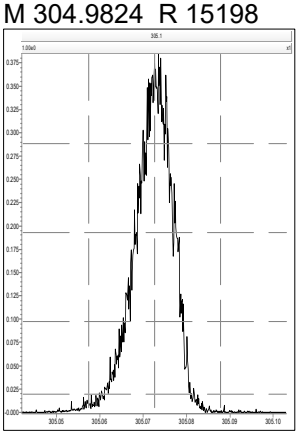

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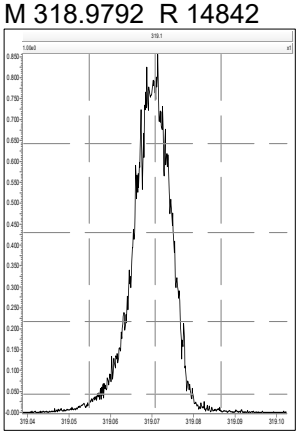

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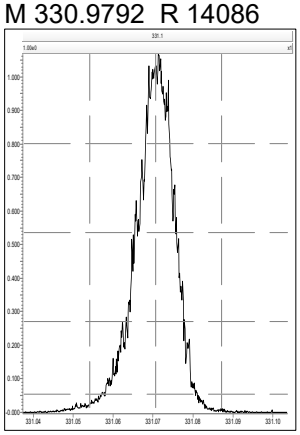

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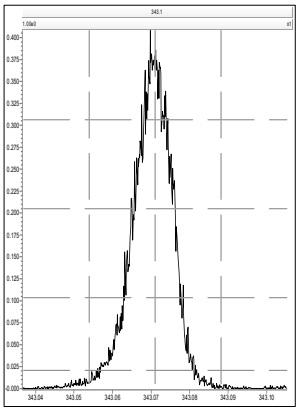

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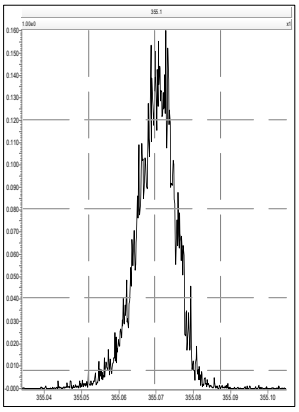

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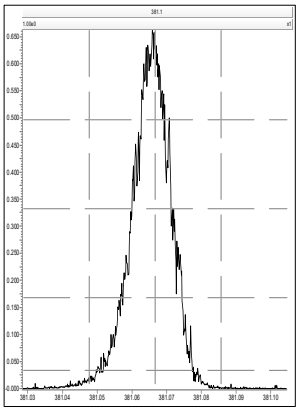

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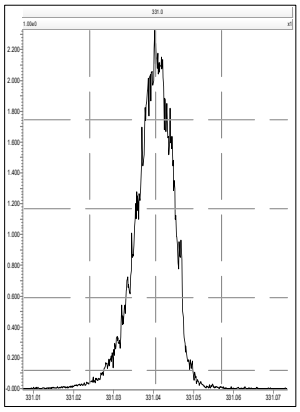

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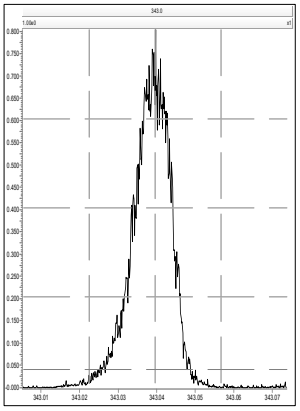

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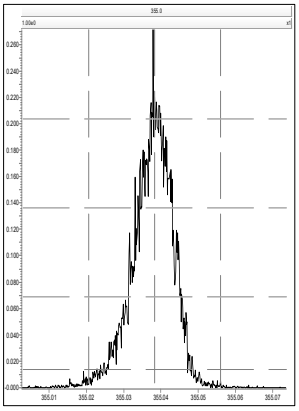

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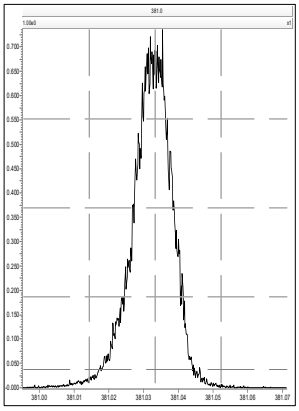

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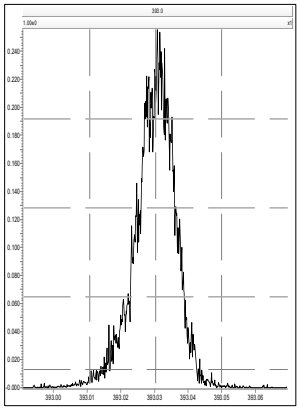
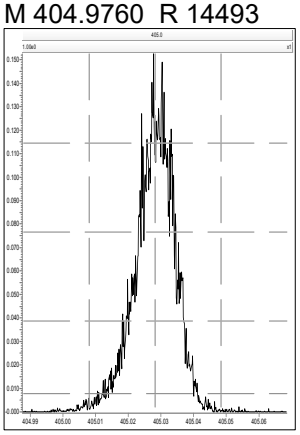


M 404.9760 R 14493



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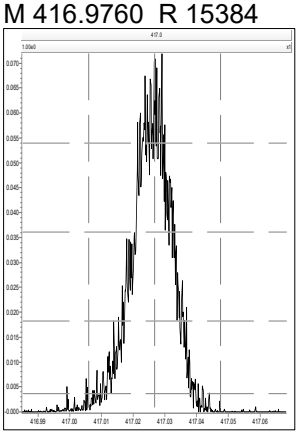

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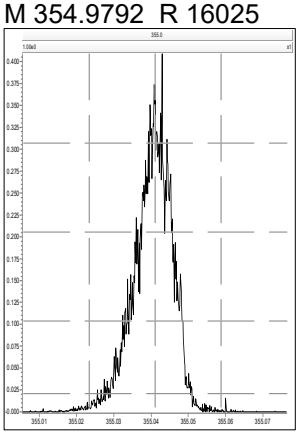

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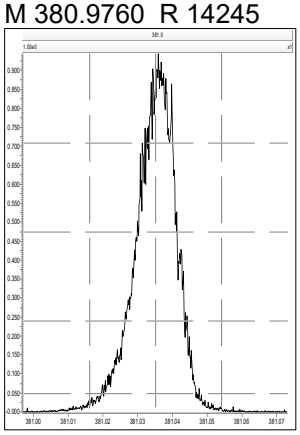

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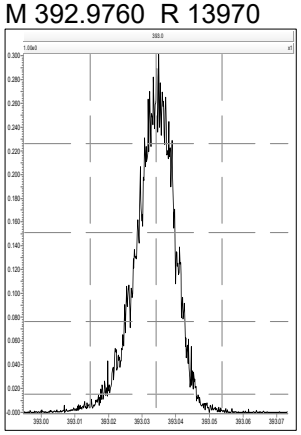

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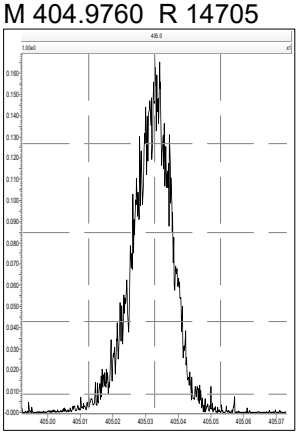

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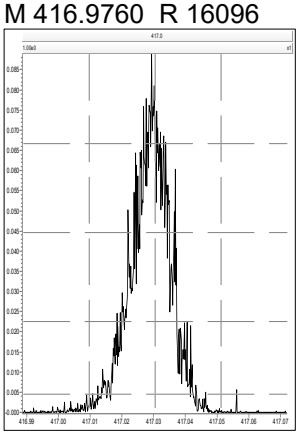

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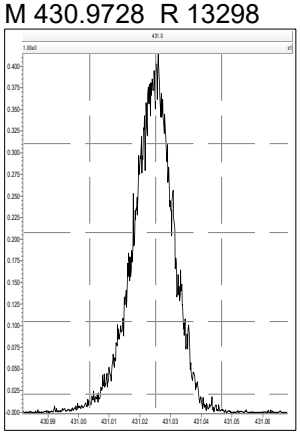

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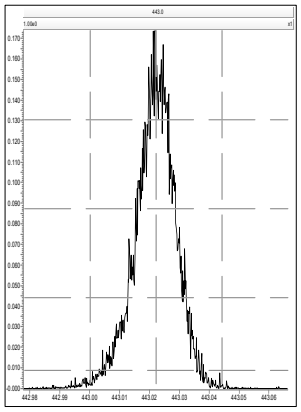

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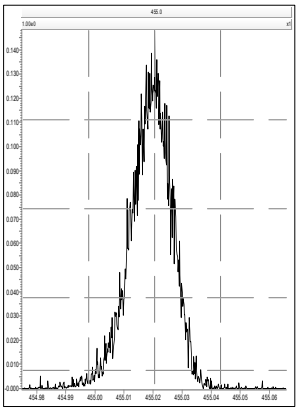
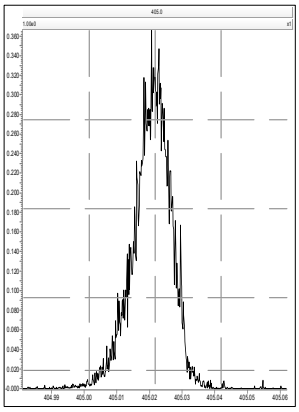


M 404.9760 R 15480



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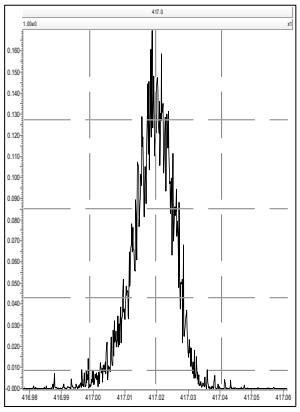

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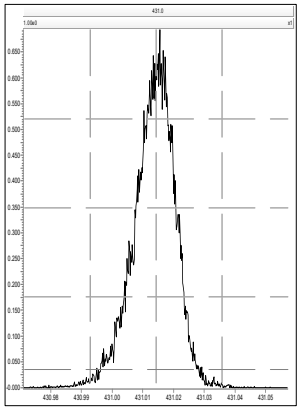

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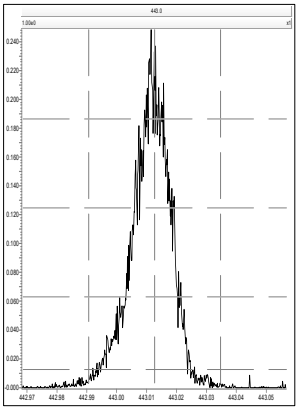

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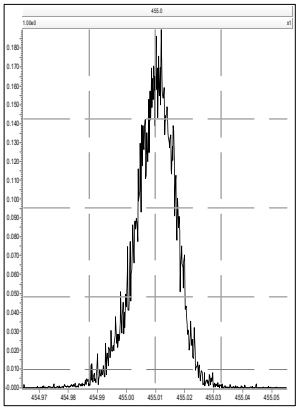

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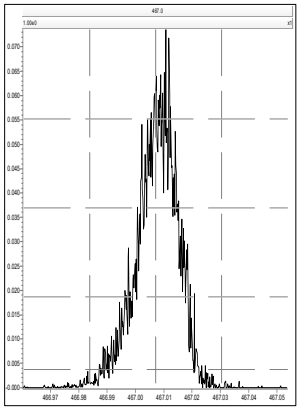

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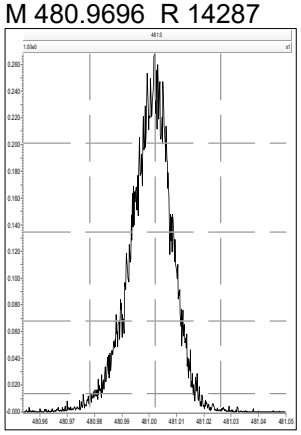

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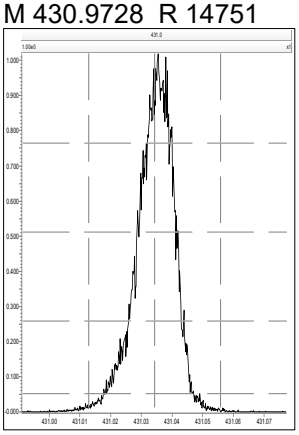

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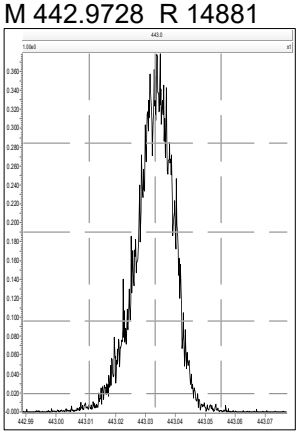

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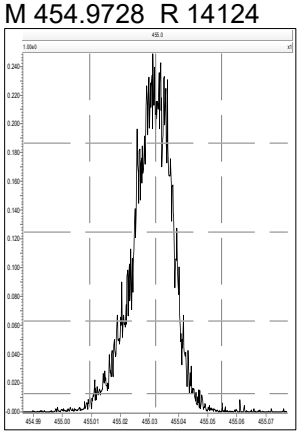

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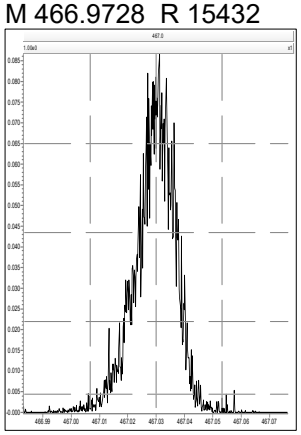

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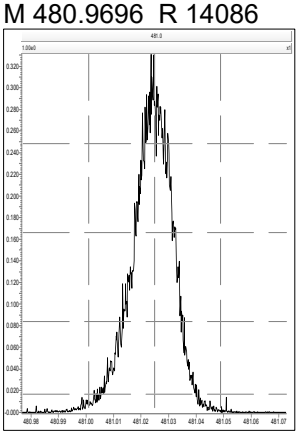

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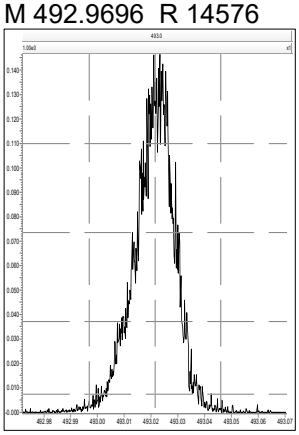

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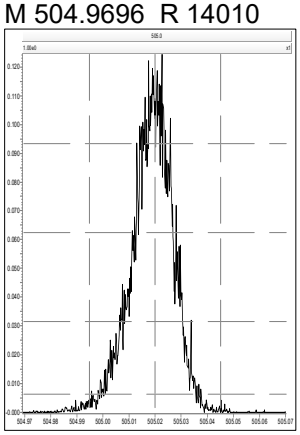

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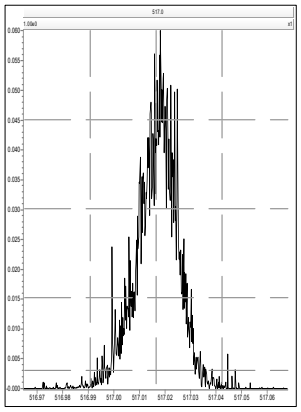

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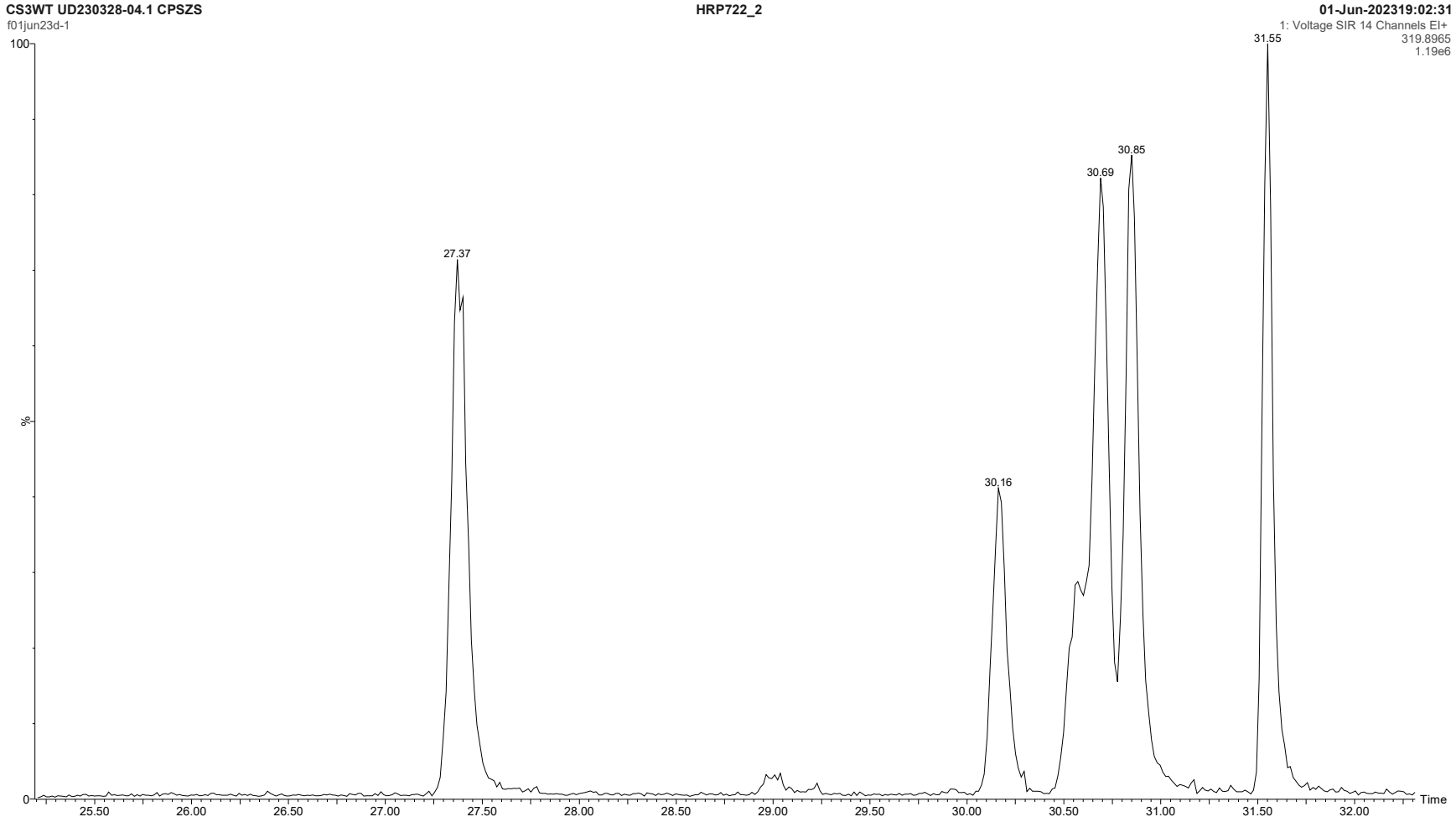

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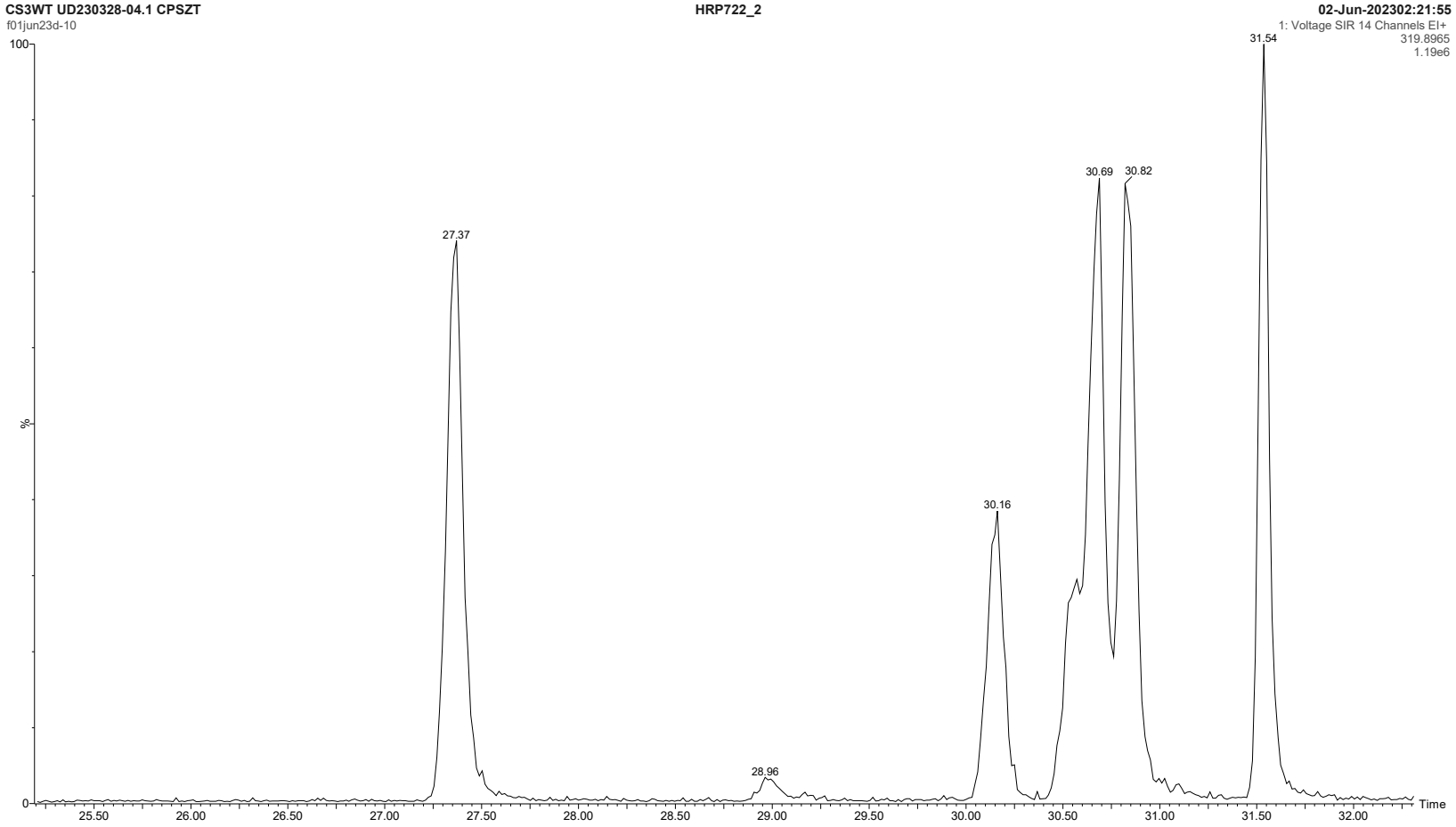

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Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

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06/06/2023

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Compound name: 2378-TCDD
Response Factor: 1.09967
RRF SD: 0.0648097, Relative SD: 5.89356
Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	30.81	0.26	1.158	1.100	bb	MM	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	30.83	0.45	0.998	1.100	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	2.000	30.82	1.91	1.048	1.100	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	30.82	10.06	1.106	1.100	bd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	30.83	40.89	1.124	1.100	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	30.82	211.45	1.163	1.100	bb	bb	HRP722_2

Compound name: 12378-PeCDD
Response Factor: 1.16447
RRF SD: 0.0502668, Relative SD: 4.31671
Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.88	1.23	1.144	1.164	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.86	2.32	1.082	1.164	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.86	9.85	1.147	1.164	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.86	52.08	1.213	1.164	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.88	206.88	1.204	1.164	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.86	1028.15	1.197	1.164	bb	bb	HRP722_2

Compound name: 123478-HxCDD
Response Factor: 1.07257
RRF SD: 0.0458007, Relative SD: 4.27018
Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.39	1.15	0.989	1.073	dd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.38	2.50	1.070	1.073	dd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.38	9.90	1.061	1.073	dd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.39	50.87	1.091	1.073	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.39	207.13	1.111	1.073	bd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.39	1037.19	1.112	1.073	bd	bd	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
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Compound name: 123678-HxCDD
Response Factor: 1.06416
RRF SD: 0.0610233, Relative SD: 5.73439
Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.46	1.19	1.017	1.064	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.46	2.28	0.971	1.064	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.47	9.91	1.054	1.064	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.47	51.99	1.107	1.064	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.48	209.87	1.117	1.064	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.47	1052.03	1.120	1.064	dd	dd	HRP722_2

Compound name: 123789-HxCDD
Response Factor: 1.06631
RRF SD: 0.0734334, Relative SD: 6.88669
Response type: Internal Std (Ref Multiple), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.69	1.12	0.959	1.066	dd	db	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.68	2.33	0.993	1.066	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.69	10.06	1.073	1.066	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.69	52.63	1.122	1.066	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.71	210.57	1.123	1.066	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.69	1057.72	1.128	1.066	dd	dd	HRP722_2

Compound name: 1234678-HpCDD
Response Factor: 1.22797
RRF SD: 0.0884953, Relative SD: 7.20665
Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	39.62	1.11	1.092	1.228	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	39.62	2.36	1.159	1.228	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	39.63	9.93	1.219	1.228	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	39.63	52.99	1.302	1.228	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	39.63	214.27	1.316	1.228	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	39.63	1042.97	1.281	1.228	bb	bb	HRP722_2

Compound name: OCDD
Response Factor: 1.10705
RRF SD: 0.0666494, Relative SD: 6.02046
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	2.500	43.65	2.37	1.050	1.107	MM	MM	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	5.000	43.65	4.72	1.044	1.107	MM	MM	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

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Compound name: OCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	20.000	43.64	18.90	1.046	1.107	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	43.65	104.24	1.154	1.107	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	400.000	43.65	426.92	1.182	1.107	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	2000.000	43.66	2107.45	1.167	1.107	bd	bd	HRP722_2

Compound name: 2378-TCDF
Response Factor: 1.35236
RRF SD: 0.0653155, Relative SD: 4.82973
Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	29.91	0.24	1.277	1.352	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	29.91	0.47	1.274	1.352	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	2.000	29.91	1.99	1.349	1.352	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	29.93	10.24	1.385	1.352	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	29.94	41.34	1.398	1.352	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	29.91	211.79	1.432	1.352	bb	bb	HRP722_2

Compound name: 12378-PeCDF
Response Factor: 1.27379
RRF SD: 0.0883789, Relative SD: 6.93827
Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.07	1.19	1.214	1.274	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.06	2.26	1.151	1.274	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.07	9.86	1.256	1.274	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.07	50.30	1.282	1.274	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.08	210.61	1.341	1.274	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.07	1097.92	1.399	1.274	bd	bb	HRP722_2

Compound name: 23478-PeCDF
Response Factor: 1.39417
RRF SD: 0.0578353, Relative SD: 4.14838
Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	33.68	1.23	1.368	1.394	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	33.68	2.37	1.322	1.394	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	33.68	9.61	1.339	1.394	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	33.68	51.60	1.439	1.394	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	33.69	207.94	1.450	1.394	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	33.68	1037.83	1.447	1.394	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

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Compound name: 123478-HxCDF
Response Factor: 1.41809
RRF SD: 0.0582147, Relative SD: 4.10513
Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	35.68	1.20	1.361	1.418	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	35.68	2.38	1.353	1.418	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	35.69	9.81	1.391	1.418	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	35.69	51.27	1.454	1.418	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	35.70	204.79	1.452	1.418	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	35.69	1055.77	1.497	1.418	bd	bd	HRP722_2

Compound name: 123678-HxCDF
Response Factor: 1.37798
RRF SD: 0.0572412, Relative SD: 4.15398
Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	35.78	1.22	1.341	1.378	db	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	35.78	2.39	1.315	1.378	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	35.78	9.60	1.323	1.378	db	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	35.78	51.91	1.430	1.378	db	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	35.79	206.90	1.426	1.378	db	db	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	35.78	1039.78	1.433	1.378	db	db	HRP722_2

Compound name: 234678-HxCDF
Response Factor: 1.42194
RRF SD: 0.0847991, Relative SD: 5.96364
Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	36.25	1.17	1.331	1.422	bd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	36.25	2.41	1.368	1.422	bb	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	36.25	9.46	1.345	1.422	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	36.26	51.23	1.457	1.422	bb	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	36.26	213.78	1.520	1.422	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	36.26	1062.74	1.511	1.422	bd	bd	HRP722_2

Compound name: 123789-HxCDF
Response Factor: 1.30221
RRF SD: 0.070686, Relative SD: 5.42814
Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	37.00	1.15	1.202	1.302	bd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	37.00	2.44	1.273	1.302	bb	MM	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

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Compound name: 123789-HxCDF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	10.000	37.00	9.67	1.259	1.302	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	37.00	50.95	1.327	1.302	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	37.00	208.62	1.358	1.302	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	37.00	1070.51	1.394	1.302	bb	bb	HRP722_2

Compound name: 1234678-HpCDF
Response Factor: 1.38391
RRF SD: 0.0630964, Relative SD: 4.55929
Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	38.41	1.17	1.295	1.384	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	38.41	2.48	1.375	1.384	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	38.42	9.63	1.332	1.384	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	38.41	51.44	1.424	1.384	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	38.42	203.72	1.410	1.384	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	38.42	1060.45	1.468	1.384	bb	bb	HRP722_2

Compound name: 1234789-HpCDF
Response Factor: 1.36358
RRF SD: 0.116204, Relative SD: 8.52199
Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	1.250	40.25	1.10	1.203	1.364	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	2.500	40.26	2.30	1.255	1.364	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	10.000	40.27	9.86	1.345	1.364	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	50.000	40.26	52.32	1.427	1.364	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	40.27	217.55	1.483	1.364	bd	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	1000.000	40.26	1077.43	1.469	1.364	bb	bb	HRP722_2

Compound name: OCDF
Response Factor: 1.7522
RRF SD: 0.29471, Relative SD: 16.8194
Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	2.500	43.96	2.01	1.411	1.752	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	5.000	43.93	4.30	1.508	1.752	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	20.000	43.94	17.84	1.563	1.752	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	43.93	107.80	1.889	1.752	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	400.000	43.94	474.32	2.078	1.752	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	2000.000	43.95	2356.78	2.065	1.752	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
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Compound name: 13C-2378-TCDD
Response Factor: 1.13864
RRF SD: 0.0319578, Relative SD: 2.80667
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	30.81	97.47	1.110	1.139	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	30.81	97.99	1.116	1.139	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	30.81	100.03	1.139	1.139	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	30.81	99.60	1.134	1.139	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	30.82	99.56	1.134	1.139	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	30.81	105.35	1.200	1.139	bb	bb	HRP722_2

Compound name: 13C-12378-PeCDD
Response Factor: 0.813147
RRF SD: 0.0496779, Relative SD: 6.10934
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.85	95.01	0.773	0.813	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.85	97.94	0.796	0.813	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.85	99.13	0.806	0.813	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.85	96.07	0.781	0.813	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.86	99.97	0.813	0.813	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.85	111.89	0.910	0.813	bb	bb	HRP722_2

Compound name: 13C-123478-HxCDD
Response Factor: 0.847482
RRF SD: 0.029141, Relative SD: 3.43854
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.38	96.00	0.814	0.847	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.36	97.47	0.826	0.847	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.36	99.44	0.843	0.847	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.38	98.75	0.837	0.847	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.38	104.28	0.884	0.847	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.38	104.06	0.882	0.847	bd	bd	HRP722_2

Compound name: 13C-123678-HxCDD
Response Factor: 1.02718
RRF SD: 0.0100553, Relative SD: 0.97892
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.46	101.81	1.046	1.027	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.44	99.18	1.019	1.027	dd	dd	HRP722_2

Compound name: 13C-123678-HxCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.46	99.50	1.022	1.027	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.46	99.30	1.020	1.027	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.47	100.30	1.030	1.027	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.46	99.91	1.026	1.027	dd	dd	HRP722_2

Compound name: 13C-1234678-HpCDD
Response Factor: 0.800489
RRF SD: 0.0176475, Relative SD: 2.20459
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	39.61	97.28	0.779	0.800	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	39.61	99.83	0.799	0.800	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	39.61	103.34	0.827	0.800	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	39.61	98.59	0.789	0.800	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	39.62	99.20	0.794	0.800	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	39.62	101.76	0.815	0.800	bd	bb	HRP722_2

Compound name: 13C-OCDD
Response Factor: 0.652502
RRF SD: 0.0281295, Relative SD: 4.31103
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	200.000	43.64	189.67	0.619	0.653	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	200.000	43.63	194.36	0.634	0.653	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	200.000	43.63	205.25	0.670	0.653	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	200.000	43.63	196.89	0.642	0.653	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	200.000	43.64	199.84	0.652	0.653	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	43.65	214.00	0.698	0.653	bd	bd	HRP722_2

Compound name: 13C-2378-TCDF
Response Factor: 1.73398
RRF SD: 0.0262921, Relative SD: 1.51628
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	29.90	98.57	1.709	1.734	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	29.89	98.62	1.710	1.734	bb	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	29.90	99.54	1.726	1.734	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	29.90	100.64	1.745	1.734	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	29.91	100.00	1.734	1.734	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	29.90	102.63	1.780	1.734	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-12378-PeCDF
Response Factor: 1.71872
RRF SD: 0.0685337, Relative SD: 3.98748
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.06	95.67	1.644	1.719	dd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.06	98.47	1.693	1.719	db	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.06	98.93	1.700	1.719	bb	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.06	98.98	1.701	1.719	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.07	100.46	1.727	1.719	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.06	107.49	1.847	1.719	bb	bd	HRP722_2

Compound name: 13C-23478-PeCDF
Response Factor: 1.61906
RRF SD: 0.113554, Relative SD: 7.0136
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	33.67	94.74	1.534	1.619	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	33.66	94.72	1.534	1.619	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	33.67	100.02	1.619	1.619	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	33.67	96.39	1.561	1.619	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	33.68	100.82	1.632	1.619	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	33.67	113.30	1.834	1.619	bb	bb	HRP722_2

Compound name: 13C-123478-HxCDF
Response Factor: 1.29127
RRF SD: 0.04042, Relative SD: 3.13026
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	35.68	96.39	1.245	1.291	bd	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	35.67	95.99	1.240	1.291	bd	bd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	35.68	101.19	1.307	1.291	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	35.68	100.39	1.296	1.291	bd	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	35.69	102.77	1.327	1.291	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	35.68	103.27	1.333	1.291	bd	bd	HRP722_2

Compound name: 13C-123678-HxCDF
Response Factor: 1.59829
RRF SD: 0.0276943, Relative SD: 1.73275
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	35.77	100.06	1.599	1.598	db	db	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	35.77	102.38	1.636	1.598	dd	db	HRP722_2

Compound name: 13C-123678-HxCDF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	100.000	35.77	100.91	1.613	1.598	db	db	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	35.77	99.20	1.585	1.598	db	db	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	35.78	100.25	1.602	1.598	dd	db	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	35.77	97.21	1.554	1.598	db	db	HRP722_2

Compound name: 13C-234678-HxCDF
Response Factor: 1.33772
RRF SD: 0.0172676, Relative SD: 1.29082
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.25	97.96	1.310	1.338	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.24	98.91	1.323	1.338	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.25	100.54	1.345	1.338	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.25	100.71	1.347	1.338	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.25	100.50	1.344	1.338	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.25	101.39	1.356	1.338	bd	bd	HRP722_2

Compound name: 13C-123789-HxCDF
Response Factor: 1.18984
RRF SD: 0.0308055, Relative SD: 2.58904
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.99	96.35	1.146	1.190	bb	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.98	97.27	1.157	1.190	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.99	102.97	1.225	1.190	bd	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.99	100.95	1.201	1.190	bb	bd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	37.00	101.33	1.206	1.190	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.99	101.12	1.203	1.190	bd	bb	HRP722_2

Compound name: 13C-1234678-HpCDF
Response Factor: 1.53684
RRF SD: 0.031116, Relative SD: 2.02467
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	38.40	98.20	1.509	1.537	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	38.40	98.02	1.506	1.537	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	38.41	102.00	1.568	1.537	bb	bd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	38.40	101.35	1.558	1.537	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	38.41	102.14	1.570	1.537	bd	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	38.41	98.29	1.511	1.537	bb	bb	HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 13C-1234789-HpCDF
Response Factor: 1.19821
RRF SD: 0.0266865, Relative SD: 2.22719
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	40.25	96.97	1.162	1.198	bd	bb	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	40.25	97.35	1.166	1.198	bd	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	40.25	101.87	1.221	1.198	bd	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	40.25	101.03	1.211	1.198	bd	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	40.26	101.08	1.211	1.198	bb	bd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	40.25	101.70	1.219	1.198	bb	bb	HRP722_2

Compound name: 13C-1234-TCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	30.12	100.00	1.000	1.000	bb	bd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	30.13	100.00	1.000	1.000	bb	bb	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	30.12	100.00	1.000	1.000	bb	bb	HRP722_2

Compound name: 13C-123789-HxCDD
Response Factor: 1
RRF SD: 0, Relative SD: 0
Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-5	CS2 UD220929-06 CS254	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	100.000	36.69	100.00	1.000	1.000	dd	dd	HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	100.000	36.68	100.00	1.000	1.000	dd	dd	HRP722_2

Compound name: 37Cl-2378-TCDD
Response Factor: 1.1239
RRF SD: 0.0721847, Relative SD: 6.42271
Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)
Curve type: RF

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-3	CS0.5 UD230407-01.1	0.250	30.82	0.24	1.079	1.124	bb		HRP722_2
f01jun23d-4	CS1 UD220929-05 CS153	0.500	30.82	0.47	1.062	1.124	bb		HRP722_2

Quantify Compound Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 10:27:56 Eastern Daylight Time

Compound name: 37Cl-2378-TCDD

Filename	Sample ID	Std. Conc	RT	pg/uL	RRF	AvgRRF	M	M2	Inst ID
f01jun23d-5	CS2 UD220929-06 CS254	2.000	30.83	1.89	1.061	1.124	bb		HRP722_2
f01jun23d-6	CS3 UD220929-07 CS3AF	10.000	30.83	10.12	1.138	1.124	bb		HRP722_2
f01jun23d-7	CS4 UD220929-08 CS453	40.000	30.83	41.22	1.158	1.124	bb		HRP722_2
f01jun23d-8	CS5 UD220929-09 CS553	200.000	30.82	221.68	1.246	1.124	bb		HRP722_2

ICAL Calculation

Inst ID: HRP722_2
ICAL: 06Jun23d

amq
06Jun2023

478 HxD
CS0.5 RRF

$$\frac{(2.15e4)}{(1.74e4)}\frac{(100)}{(1.25)} = 0.9885$$

478 HxD
RRF SD

$$(0.989-1.073)^2+(1.070-1.073)^2+(1.061-1.073)^2+(1.091-1.073)^2+(1.111-1.073)^2+(1.112-1.073)^2 =$$

$$\sqrt{\frac{0.010498}{5}} = 0.04582$$

478 HxD
Relative SD

$$\frac{0.04582}{1.073} \times 100 = 4.27027$$

AVG RRF

$$\frac{6.434}{6} = 1.0723$$

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

	Name	RT
1	First TCDF	25.66
2	Last TCDF	31.64
3	First PeCDF	31.61
4	Last PeCDF	34.31
5	First HxCDF	34.78
6	Last HxCDF	37.01
7	First HpCDF	38.43
8	Last HpCDF	40.28
9	OCDF	43.95
10	First TCDD	27.37
11	2378-TCDD	30.85
12	Last TCDD	31.55
13	First PeCDD	32.56
14	Last PeCDD	34.13
15	First HxCDD	35.20
16	Last HxCDD	36.70
17	First HpCDD	38.75
18	Last HpCDD	39.64
19	OCDD	43.65

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

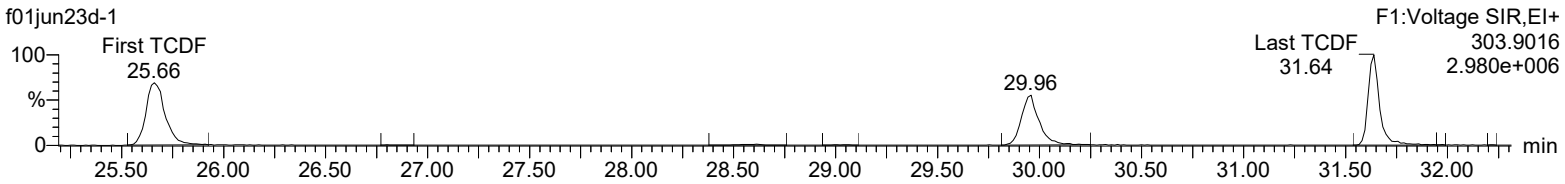
Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

06/02/2023

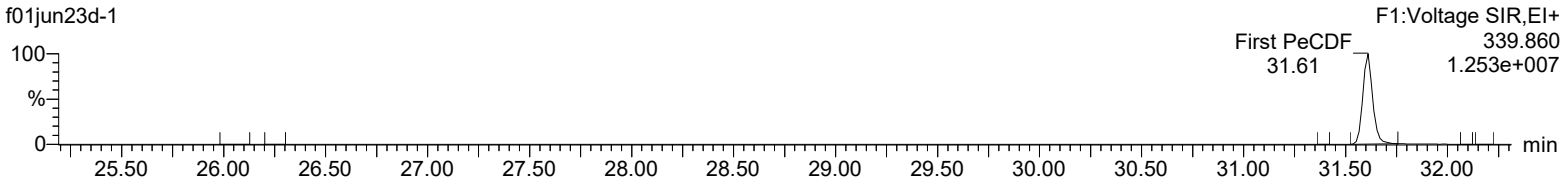
Method: C:\MassLynx\Default.pro\Methdb\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

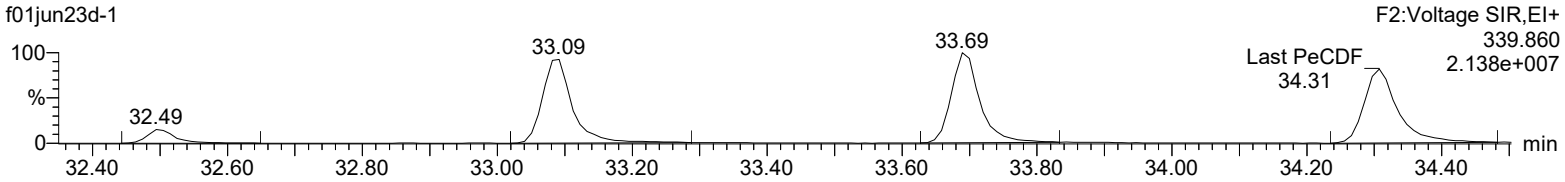
First TCDF



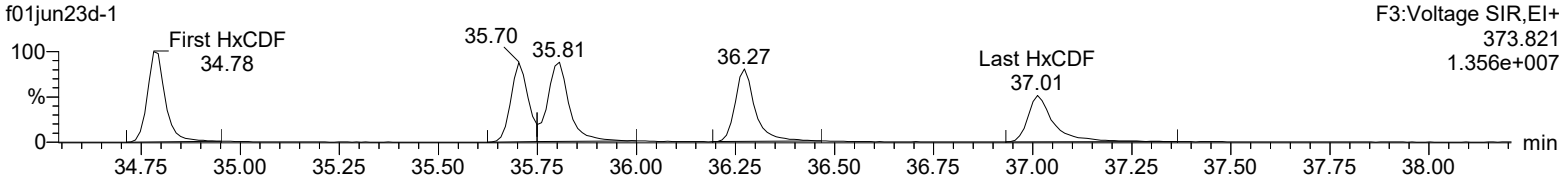
First PeCDF



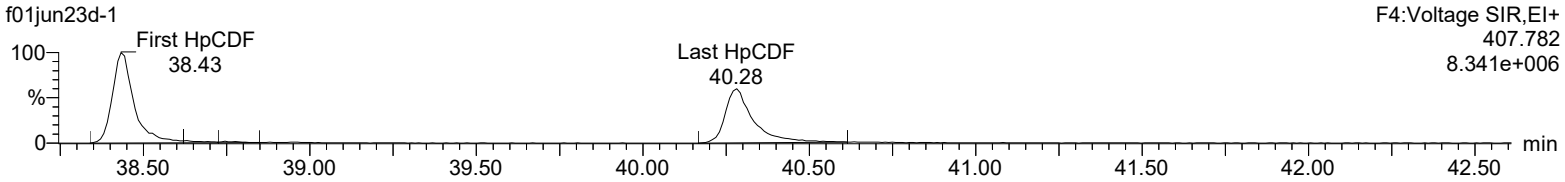
Last PeCDF



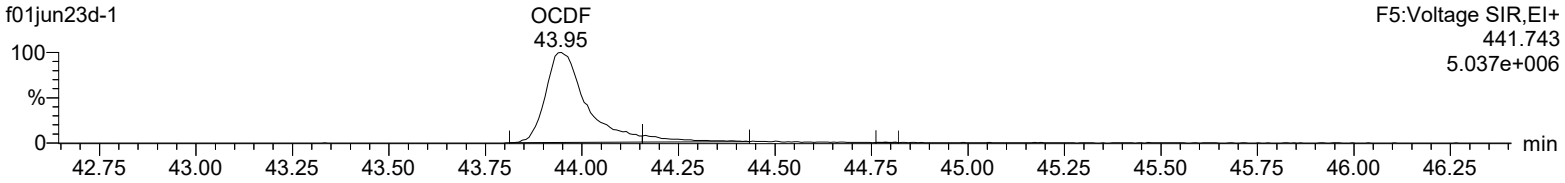
First HxCDF



First HpCDF



OCDF



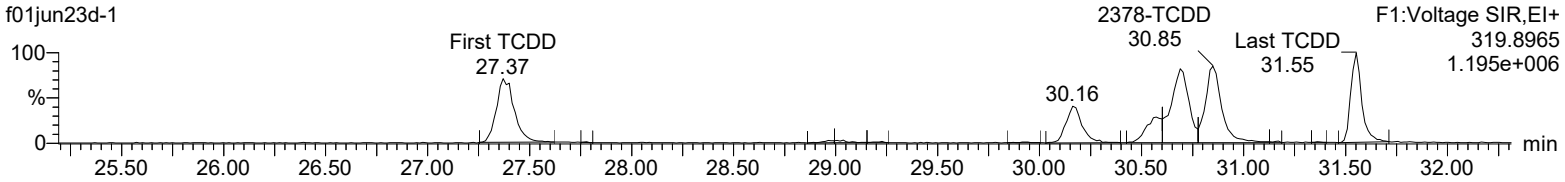
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-1.qld

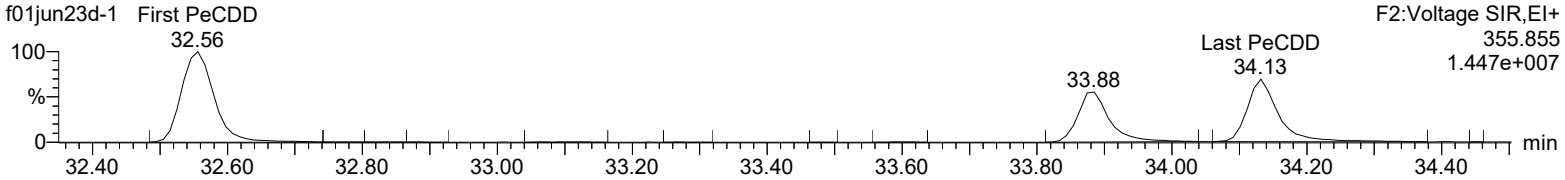
Last Altered: Friday, June 02, 2023 12:39:01 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:40:14 Eastern Daylight Time

Name: f01jun23d-1, Date: 01-Jun-2023, Time: 19:02:31, ID: CS3WT UD230328-04.1 CPSZS, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

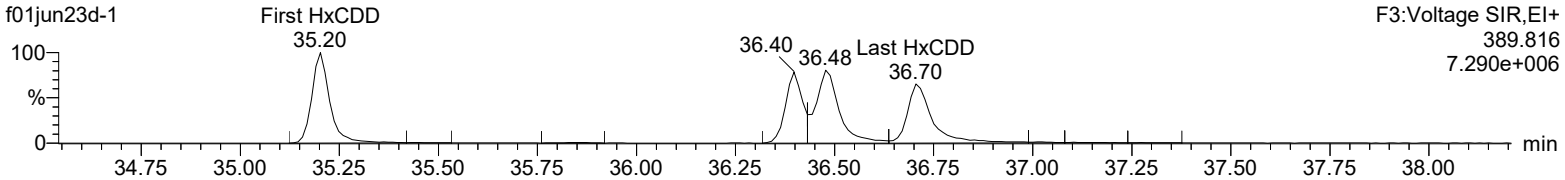
First TCDD



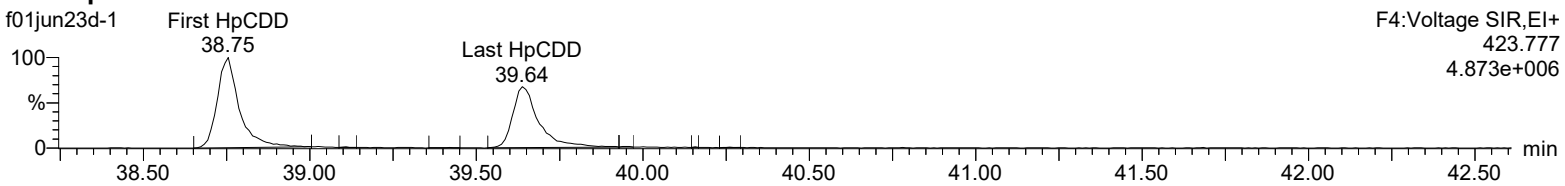
First PeCDD



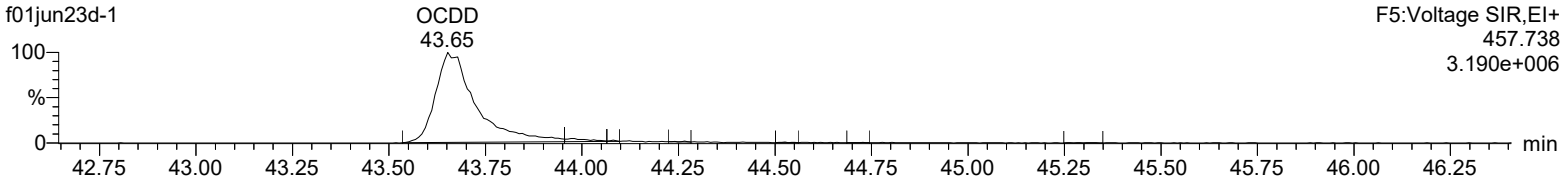
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:18 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	3.99e3	4.82e3	8.81e3	30.81	1.000	0.83	NO	0.263	1.158	1.100	5.89	0.00933	4.40e4	255	172.7	5.45e4	1100	49.6	bb	MM
2	12378-PeCDD	1.86e4	1.17e4	3.03e4	33.88	1.001	1.59	NO	1.228	1.144	1.164	4.32	0.0237	3.23e5	2547	126.8	2.37e5	1577	150.3	bd	bd
3	123478-HxCDD	1.22e4	9.31e3	2.15e4	36.39	1.000	1.31	NO	1.153	0.989	1.073	4.27	0.0639	2.09e5	3209	65.2	1.90e5	4994	38.0	dd	bd
4	123678-HxCDD	1.60e4	1.24e4	2.84e4	36.46	1.000	1.29	NO	1.195	1.017	1.064	5.73	0.0576	2.27e5	3209	70.9	2.09e5	4994	41.9	dd	dd
5	123789-HxCDD	1.31e4	1.07e4	2.38e4	36.69	1.007	1.22	NO	1.125	0.959	1.066	6.89	0.0605	2.24e5	3209	69.8	1.47e5	4994	29.4	dd	db
6	1234678-HpCDD	1.16e4	1.11e4	2.27e4	39.62	1.000	1.04	NO	1.112	1.092	1.228	7.21	0.138	1.51e5	3479	43.3	1.23e5	8177	15.1	bd	bd
7	OCDD	1.68e4	1.80e4	3.47e4	43.65	1.000	0.93	NO	2.371	1.050	1.107	6.02	0.153	1.46e5	4118	35.5	1.67e5	2563	65.0	MM	MM
8	2378-TCDF	6.88e3	8.09e3	1.50e4	29.91	1.000	0.85	NO	0.236	1.277	1.352	4.83	0.0410	7.09e4	2379	29.8	8.14e4	6786	12.0	bd	bb
9	12378-PeCDF	4.13e4	2.71e4	6.84e4	33.07	1.000	1.53	NO	1.191	1.214	1.274	6.94	0.0297	7.84e5	6293	124.5	4.85e5	6481	74.8	bd	bd
10	23478-PeCDF	4.49e4	2.71e4	7.19e4	33.68	1.000	1.66	NO	1.227	1.368	1.394	4.15	0.0283	8.39e5	6293	133.3	5.75e5	6481	88.7	bd	bb
11	123478-HxCDF	2.57e4	1.96e4	4.53e4	35.68	1.000	1.31	NO	1.200	1.361	1.418	4.11	0.0372	4.72e5	6472	72.9	3.28e5	3716	88.3	bd	bd
12	123678-HxCDF	3.35e4	2.39e4	5.74e4	35.78	1.000	1.40	NO	1.217	1.341	1.378	4.15	0.0355	5.59e5	6472	86.4	3.72e5	3716	100.2	db	dd
13	234678-HxCDF	2.55e4	2.12e4	4.66e4	36.25	1.000	1.20	NO	1.170	1.331	1.422	5.96	0.0403	4.37e5	6472	67.6	3.73e5	3716	100.3	bd	dd
14	123789-HxCDF	2.13e4	1.56e4	3.68e4	37.00	1.000	1.36	NO	1.154	1.202	1.302	5.43	0.0596	2.87e5	6472	44.4	2.21e5	3716	59.4	bd	dd
15	1234678-HpCDF	2.68e4	2.54e4	5.23e4	38.41	1.000	1.06	NO	1.170	1.295	1.384	4.56	0.0538	3.52e5	7827	44.9	3.47e5	4579	75.9	bd	bb
16	1234789-HpCDF	1.78e4	1.95e4	3.74e4	40.25	1.000	0.92	NO	1.102	1.203	1.364	8.52	0.0980	2.06e5	7827	26.3	1.95e5	4579	42.6	bb	bd
17	OCDF	2.09e4	2.58e4	4.67e4	43.96	1.007	0.81	NO	2.013	1.411	1.752	16.82	0.213	1.78e5	7974	22.3	2.21e5	6812	32.4	bd	bd
18	13C-2378-TCDD	1.35e6	1.69e6	3.04e6	30.81	1.023	0.80	NO	97.471	1.110	1.139	2.81	0.130	1.47e7	8948	1638.4	1.81e7	6703	2704.5	bb	bb
19	13C-12378-PeCDD	1.30e6	8.14e5	2.12e6	33.85	1.124	1.60	NO	95.012	0.773	0.813	6.11	0.153	2.30e7	4806	4791.6	1.45e7	8318	1748.8	bb	bb
20	13C-123478-HxCDD	9.76e5	7.64e5	1.74e6	36.38	0.992	1.28	NO	95.996	0.814	0.847	3.44	0.224	1.68e7	7674	2188.1	1.32e7	13419	982.2	bd	bd
21	13C-123678-HxCDD	1.26e6	9.77e5	2.24e6	36.46	0.994	1.29	NO	101.810	1.046	1.027	0.98	0.185	1.88e7	7674	2454.2	1.48e7	13419	1102.3	dd	dd
22	13C-1234678-HpCDD	8.60e5	8.05e5	1.67e6	39.61	1.080	1.07	NO	97.282	0.779	0.800	2.20	0.313	8.91e6	14518	613.6	8.25e6	13339	618.6	bd	bd
23	13C-OCDD	1.28e6	1.36e6	2.65e6	43.64	1.190	0.94	NO	189.670	0.619	0.653	4.31	0.401	9.60e6	13346	719.1	1.05e7	15754	668.9	bd	bd
24	13C-2378-TCDF	2.13e6	2.56e6	4.69e6	29.90	0.993	0.83	NO	98.574	1.709	1.734	1.52	0.110	1.88e7	10447	1795.6	2.30e7	9788	2348.4	bd	bb
25	13C-12378-PeCDF	2.78e6	1.73e6	4.51e6	33.06	1.098	1.61	NO	95.671	1.644	1.719	3.99	0.361	5.20e7	30446	1707.0	3.13e7	35022	893.6	dd	bb
26	13C-23478-PeCDF	2.61e6	1.59e6	4.21e6	33.67	1.118	1.64	NO	94.743	1.534	1.619	7.01	0.383	5.02e7	30446	1648.7	3.02e7	35022	861.4	bb	bb
27	13C-123478-HxCDF	9.30e5	1.73e6	2.66e6	35.68	0.973	0.54	NO	96.389	1.245	1.291	3.13	0.249	1.69e7	17160	982.7	3.15e7	18671	1685.7	bd	bd
28	13C-123678-HxCDF	1.21e6	2.21e6	3.42e6	35.77	0.975	0.55	NO	100.061	1.599	1.598	1.73	0.202	1.85e7	17160	1075.4	3.42e7	18671	1829.7	db	db
29	13C-234678-HxCDF	9.92e5	1.81e6	2.80e6	36.25	0.988	0.55	NO	97.959	1.310	1.338	1.29	0.241	1.57e7	17160	916.1	2.83e7	18671	1516.4	bb	bb
30	13C-123789-HxCDF	8.53e5	1.60e6	2.45e6	36.99	1.008	0.53	NO	96.350	1.146	1.190	2.59	0.271	1.14e7	17160	665.2	2.07e7	18671	1106.6	bb	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:18 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	9.91e5	2.24e6	3.23e6	38.40	1.047	0.44	NO	98.196	1.509	1.537	2.02	0.271	1.28e7	18387	695.8	2.74e7	27953	979.8	bb	bd
32	13C-1234789-HpCDF	7.81e5	1.70e6	2.49e6	40.25	1.097	0.46	NO	96.969	1.162	1.198	2.23	0.348	7.30e6	18387	396.8	1.60e7	27953	573.8	bd	bb
33	13C-1234-TCDD	1.22e6	1.53e6	2.74e6	30.12	0.000	0.80	NO	100.000	1.000	1.000	0.00	0.148	1.17e7	8948	1309.0	1.46e7	6703	2179.4	bb	bd
34	13C-123789-HxCDD	1.21e6	9.30e5	2.14e6	36.68	0.000	1.30	NO	100.000	1.000	1.000	0.00	0.190	1.57e7	7674	2048.5	1.20e7	13419	892.9	dd	dd
35	37Cl-2378-TCDD	7.40e3		7.40e3	30.82	1.023			0.240	1.079	1.124	6.42	0.0130	8.72e4	1545	56.4				bb	

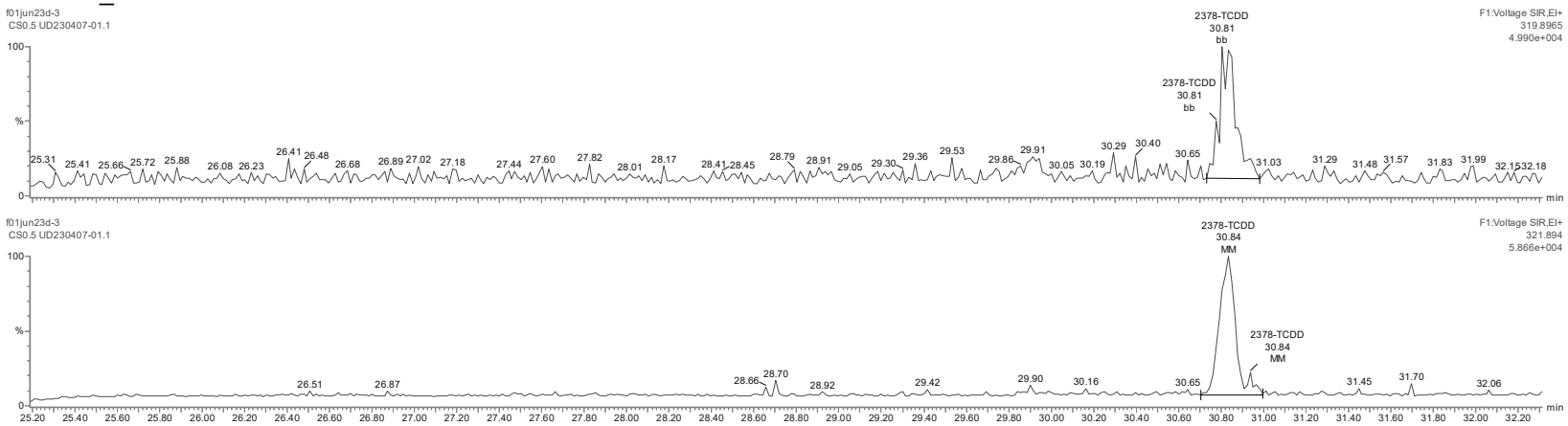
Reasons for Analyst Intervention

Name:f01jun23d-3, ID:

M	M2
	1 2378-TCDD 30.81 - AB
7 OCDD 43.65 - AB	7 OCDD 43.65 - AB

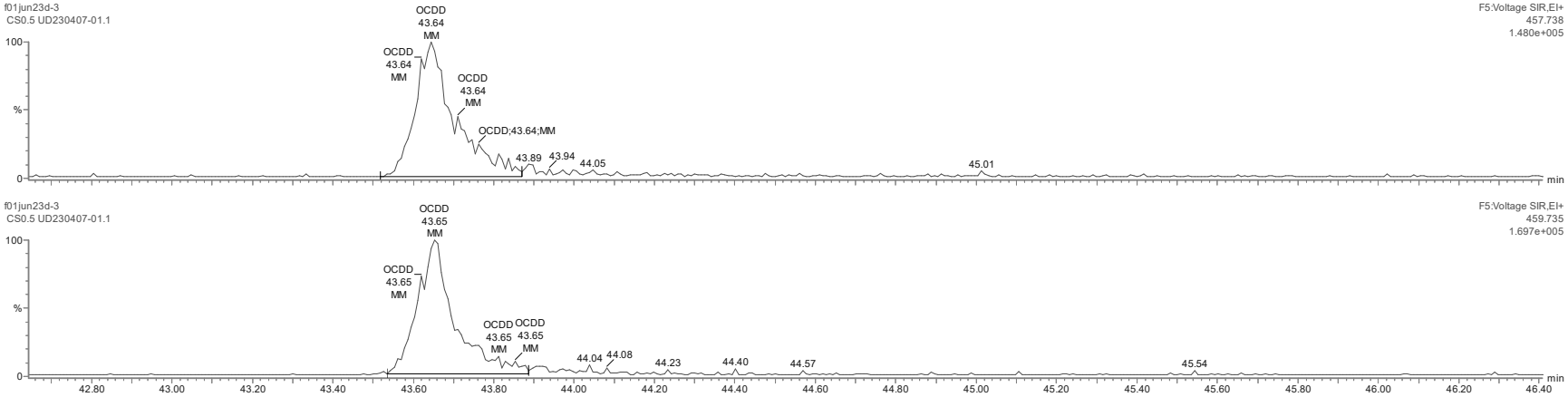
Reason Codes assigned by SM1 on 06-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/02/2023 06/05/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/05/2023 06/05/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/05/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

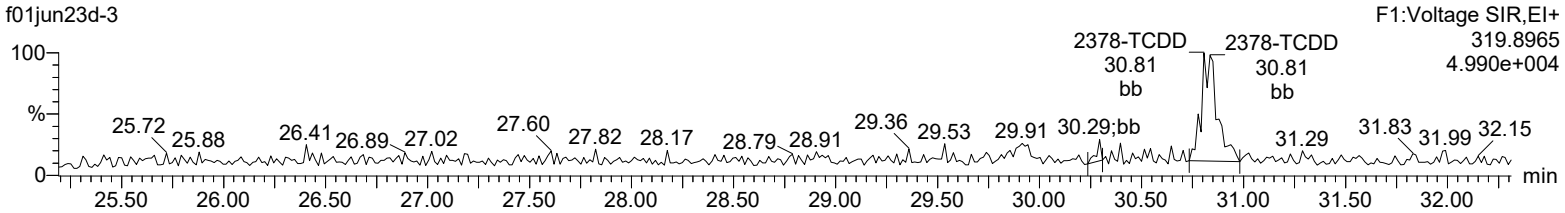
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

06/06/2023

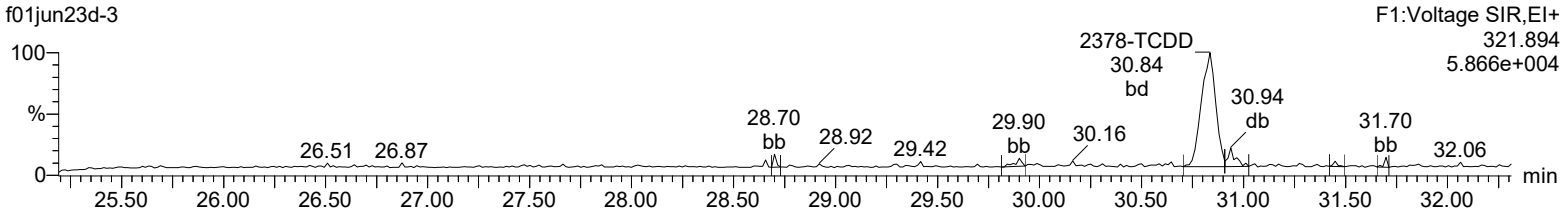
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 02 Jun 2023 15:27:46

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

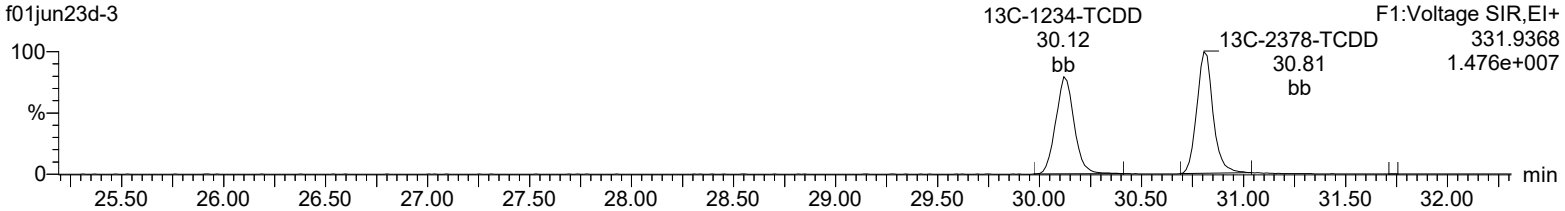
Total-tetradioxins



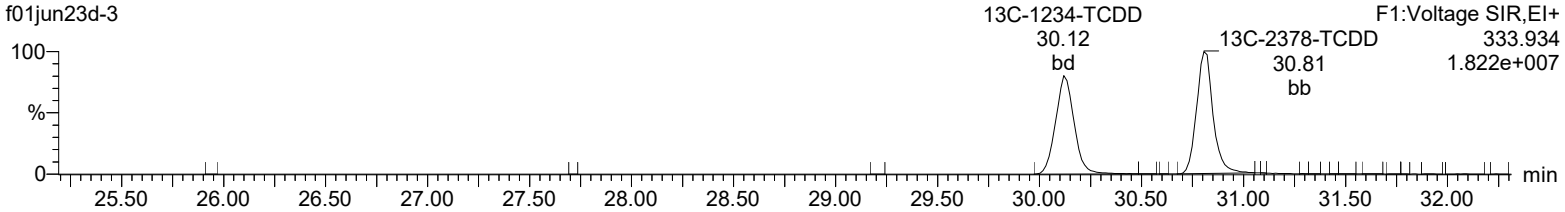
Total-tetradioxins



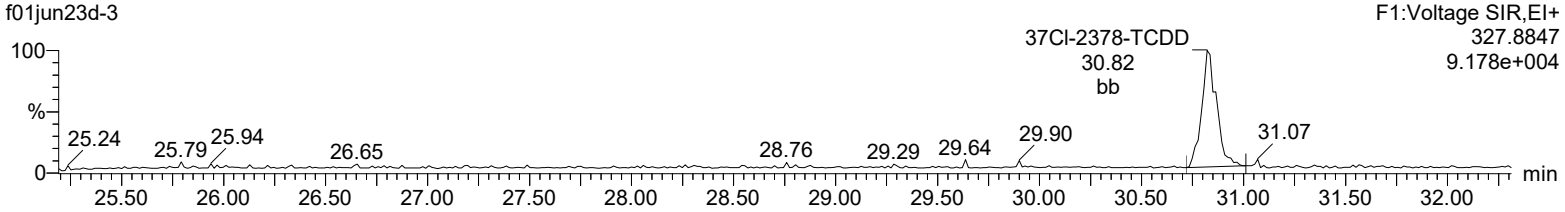
13C-2378-TCDD



13C-2378-TCDD



37Cl-2378-TCDD



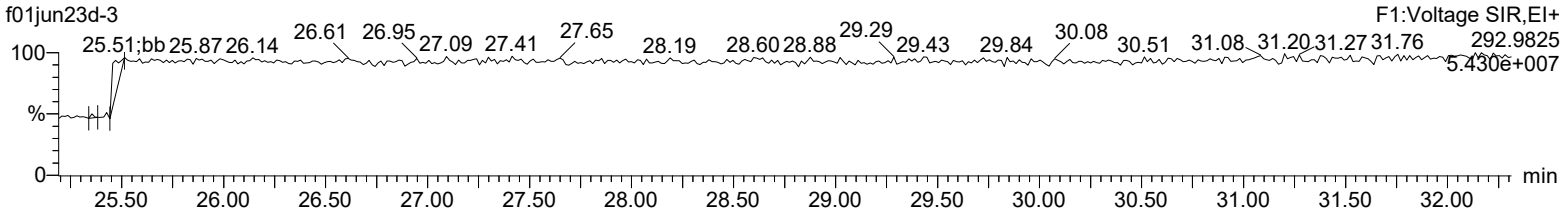
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

Lock Mass F1



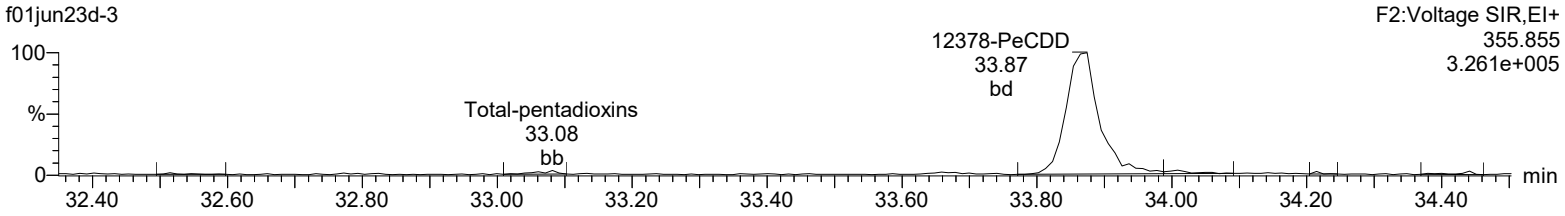
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

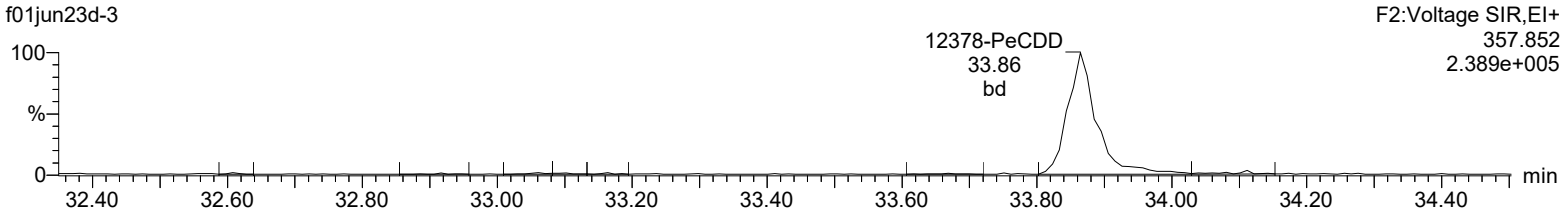
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

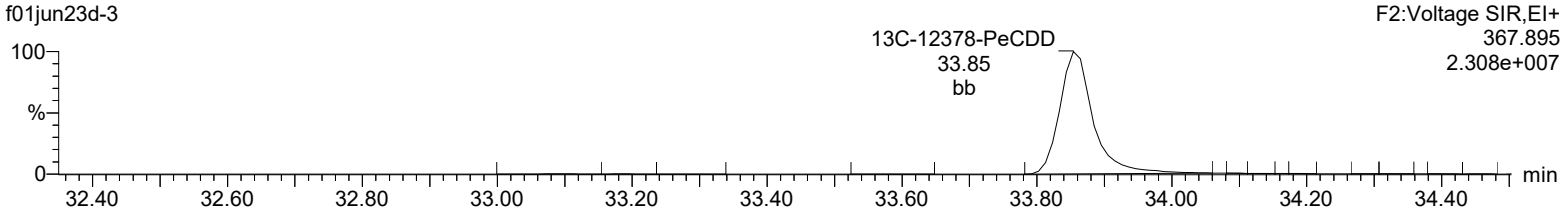
Total-pentadioxins



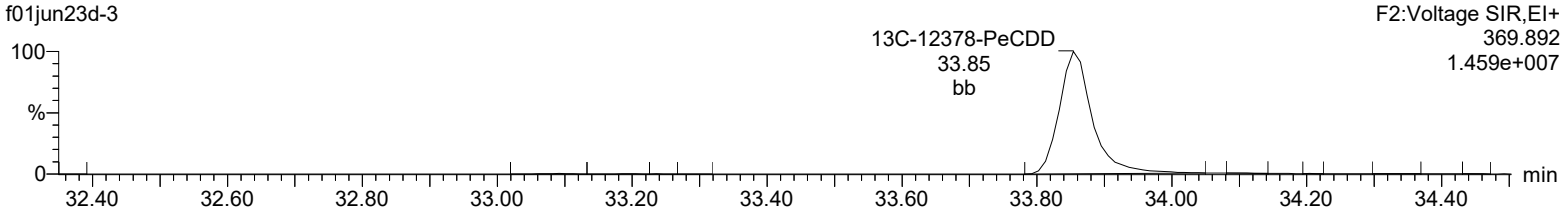
Total-pentadioxins



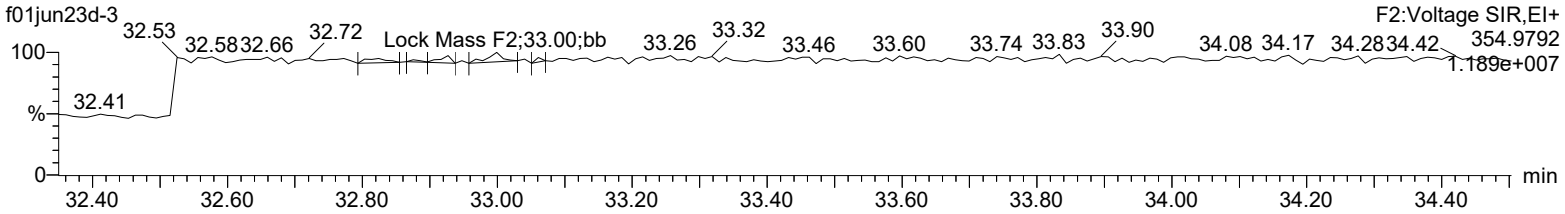
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



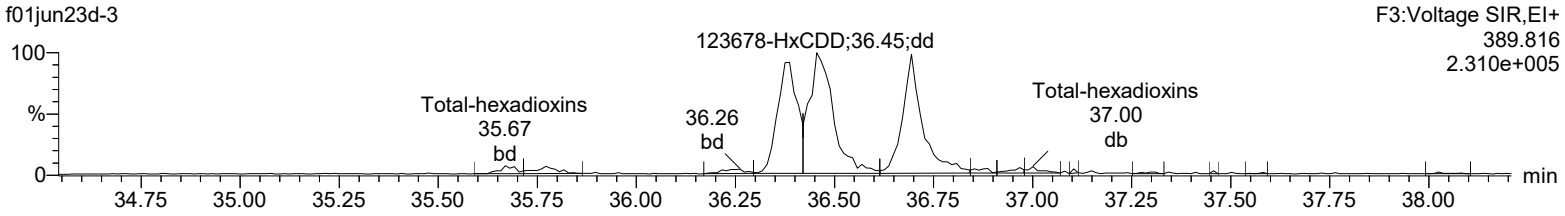
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

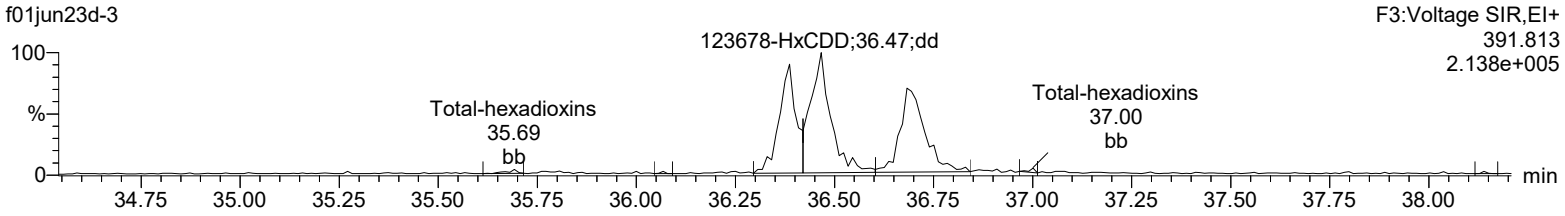
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

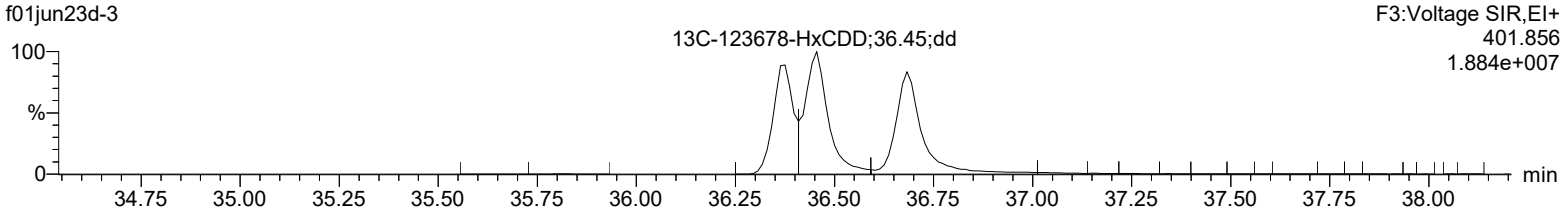
Total-hexadioxins



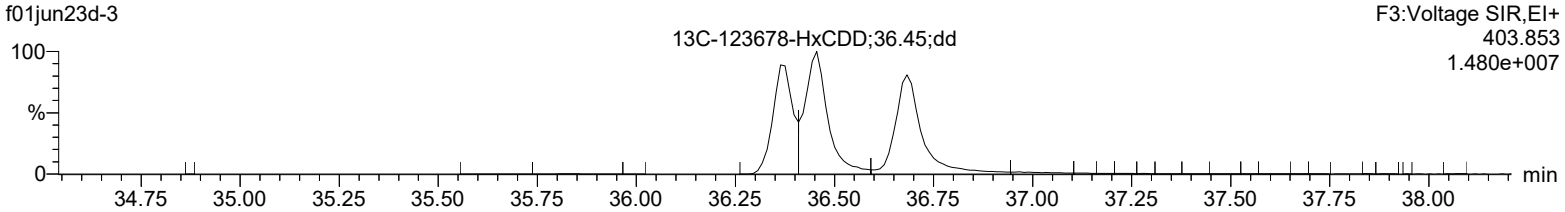
Total-hexadioxins



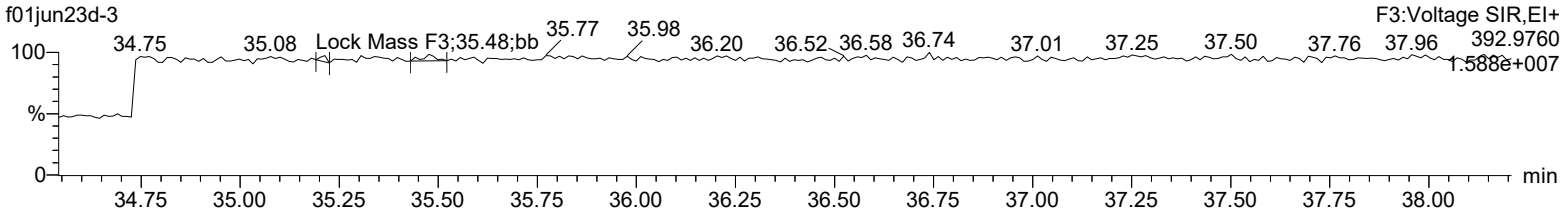
13C-123478-HxCDD



13C-123478-HxCDD



Lock Mass F3



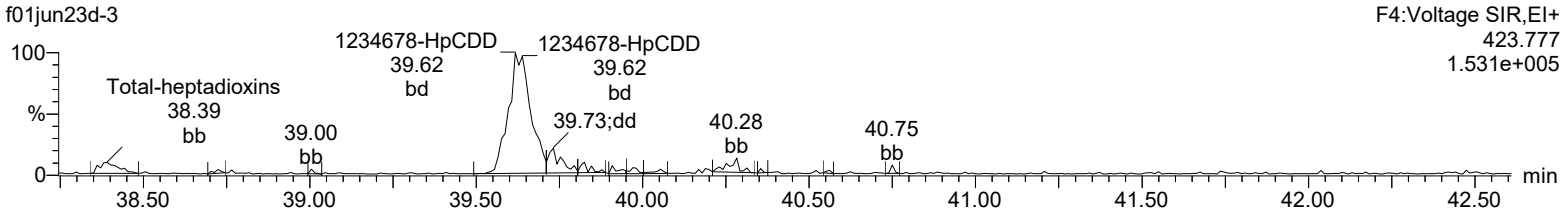
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

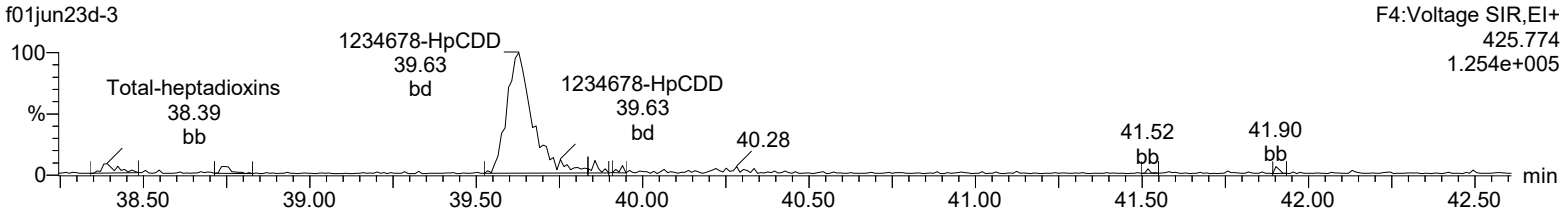
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

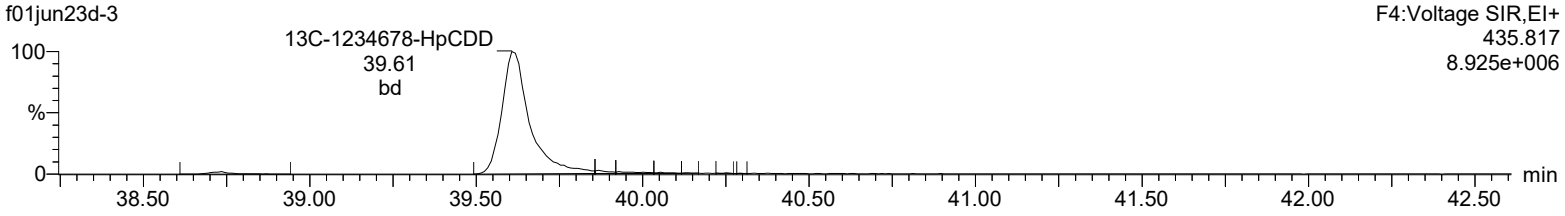
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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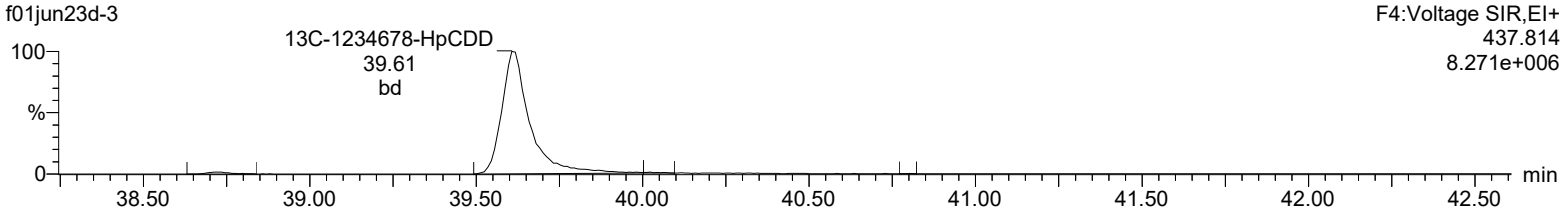
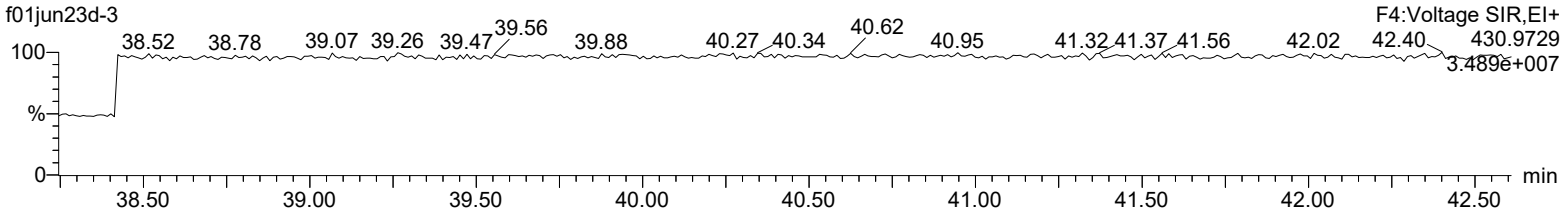


Lock Mass F4



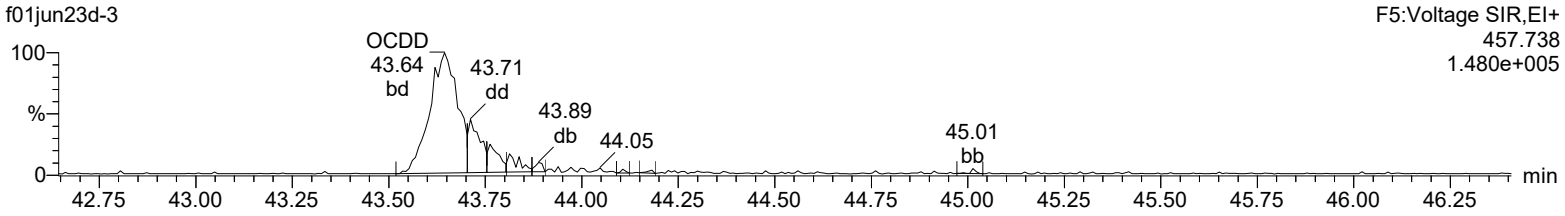
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

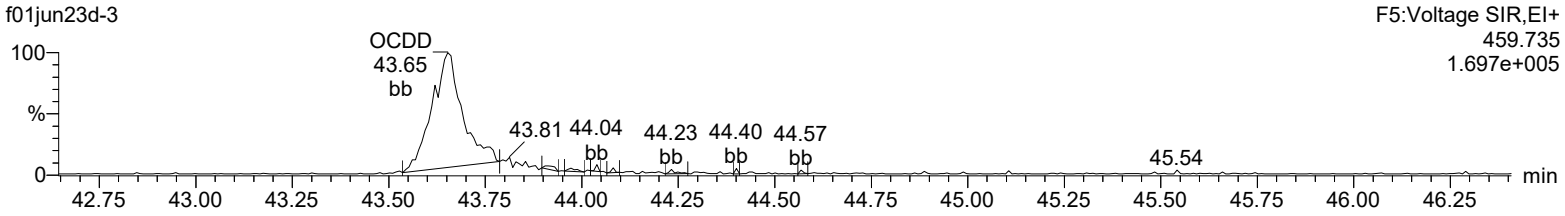
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

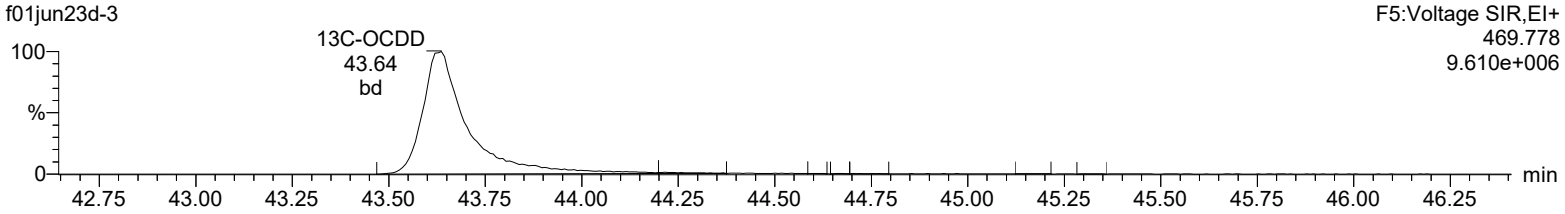
OCDD



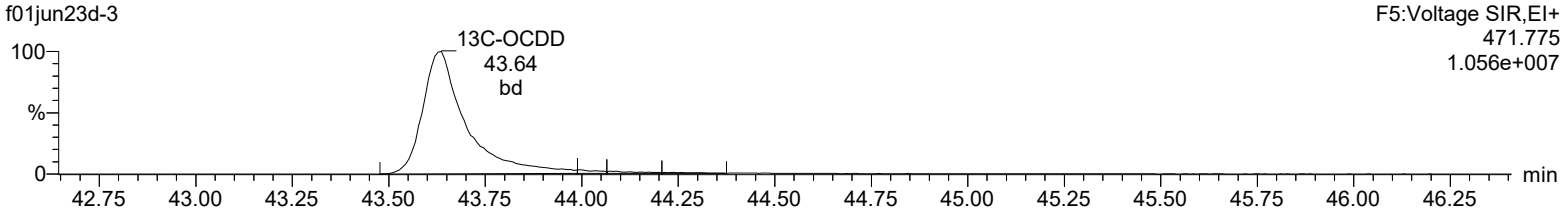
OCDD



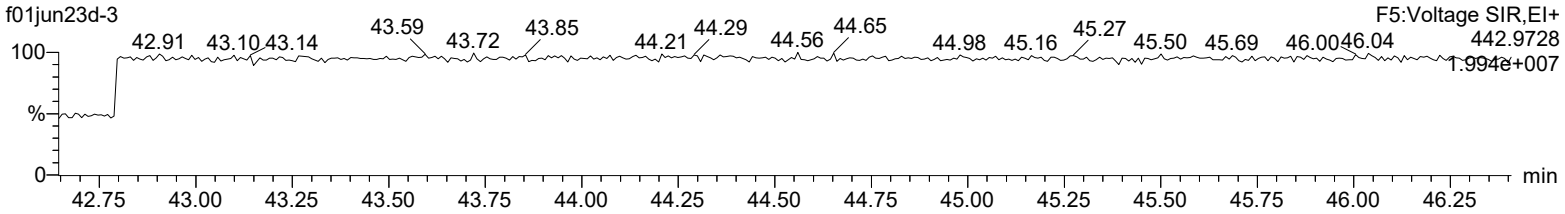
13C-OCDD



13C-OCDD



Lock Mass F5



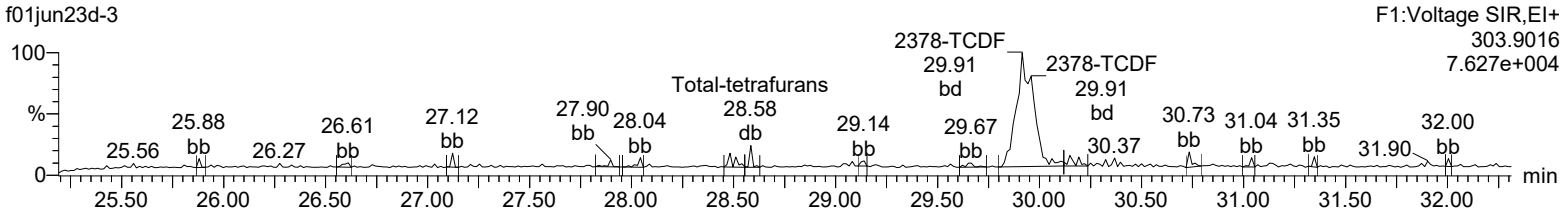
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

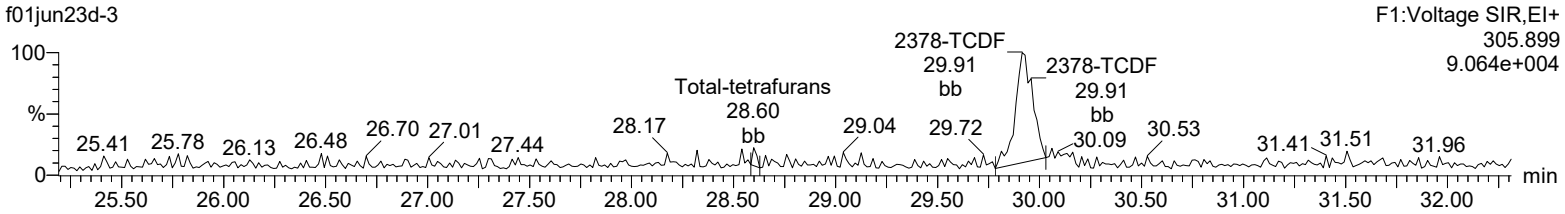
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

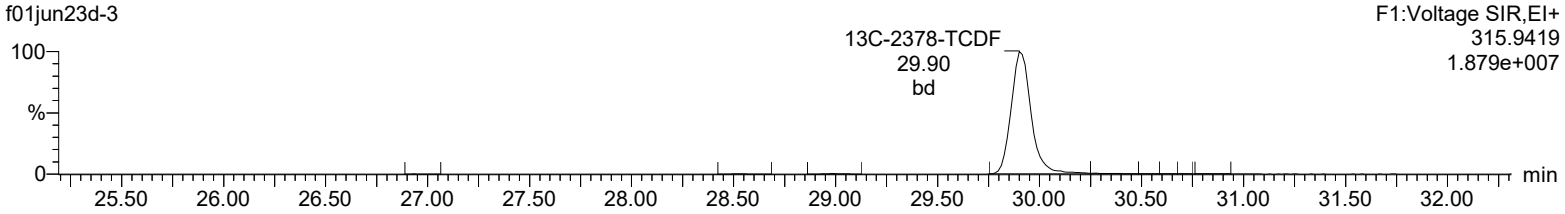
Total-tetrafurans



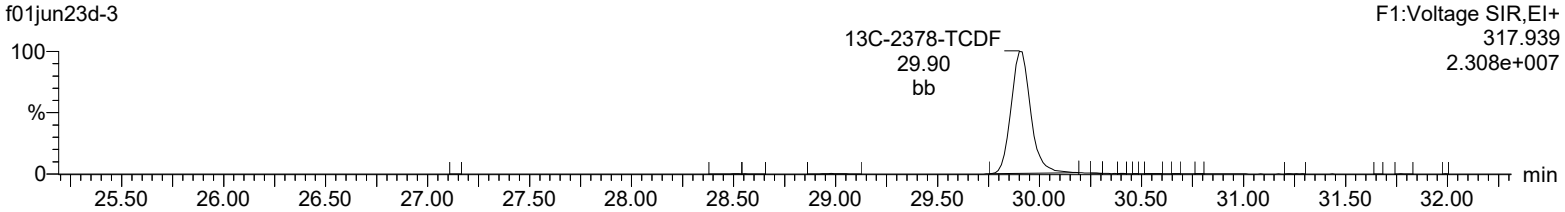
Total-tetrafurans



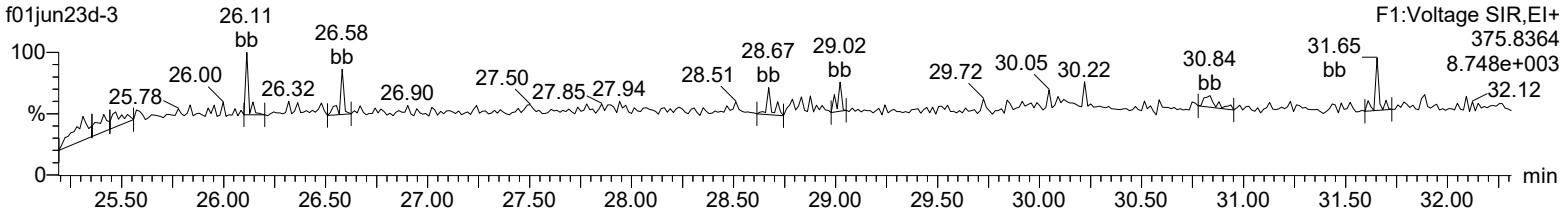
13C-2378-TCDF



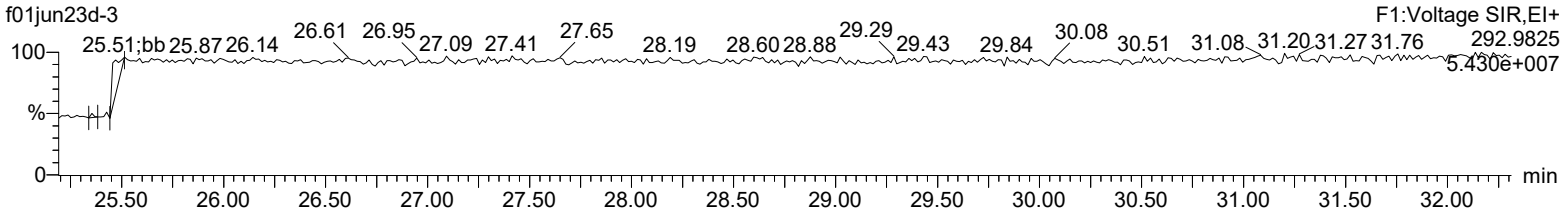
13C-2378-TCDF



HxDPE



Lock Mass F1



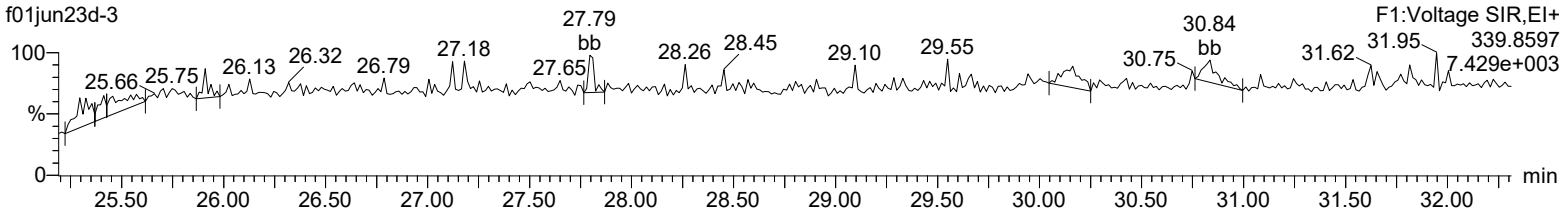
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

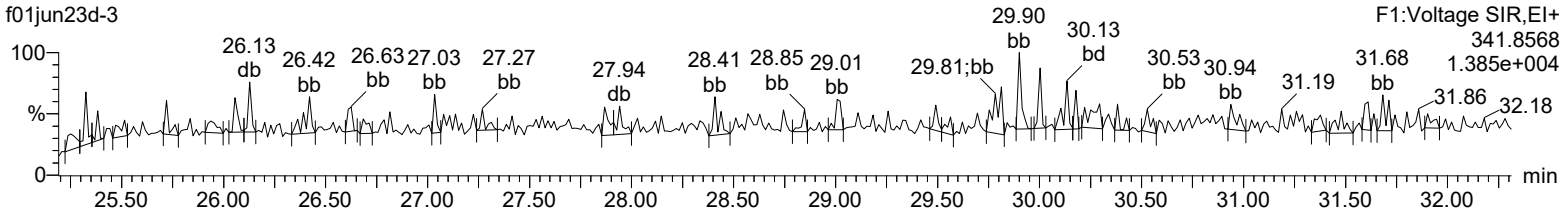
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

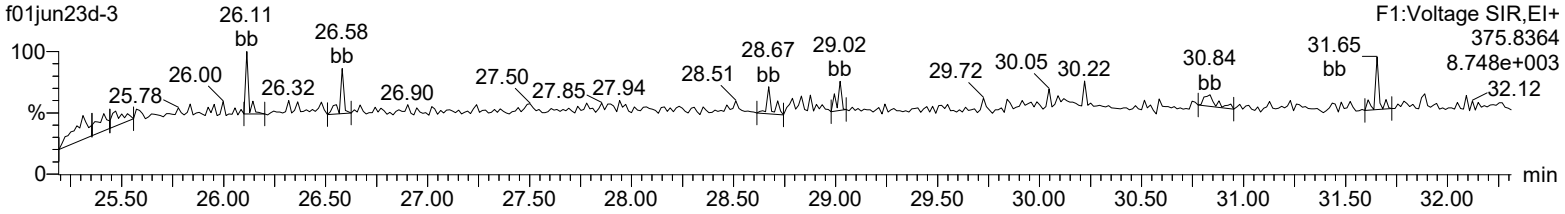
Total-pentafurans (F1)



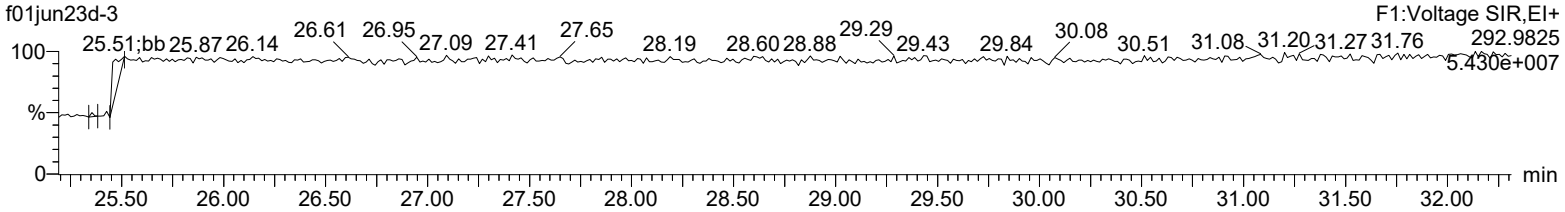
Total-pentafurans (F1)



HxDPE



Lock Mass F1



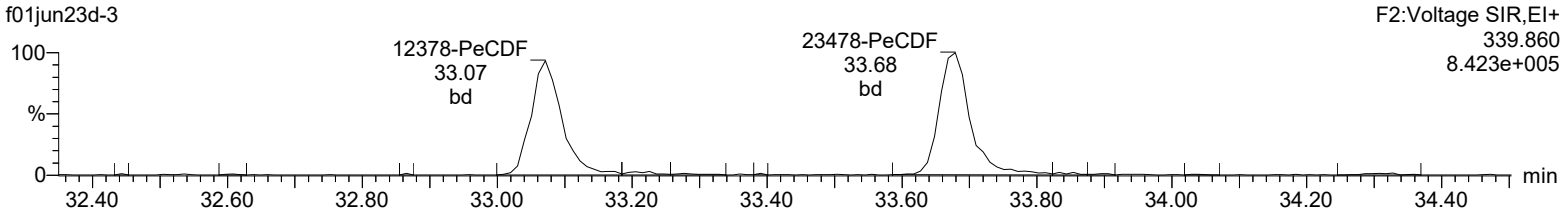
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

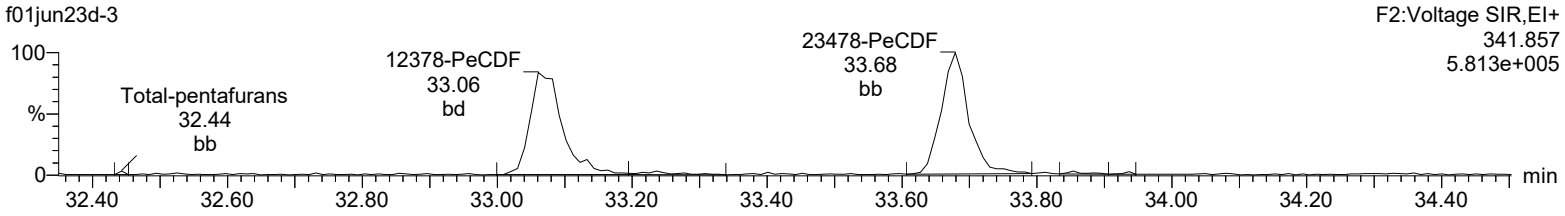
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

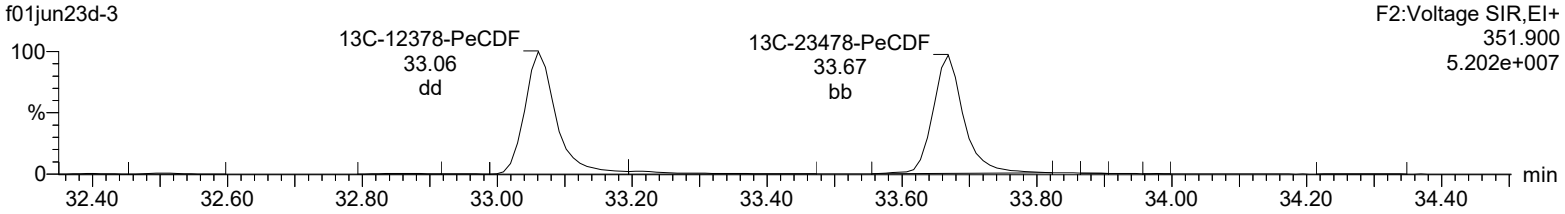
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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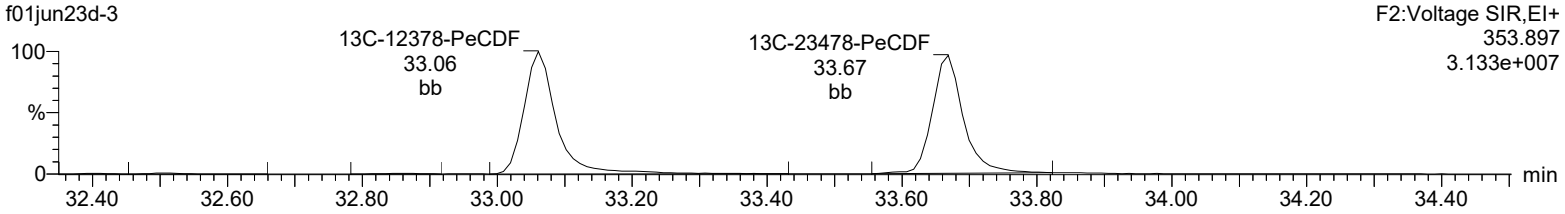
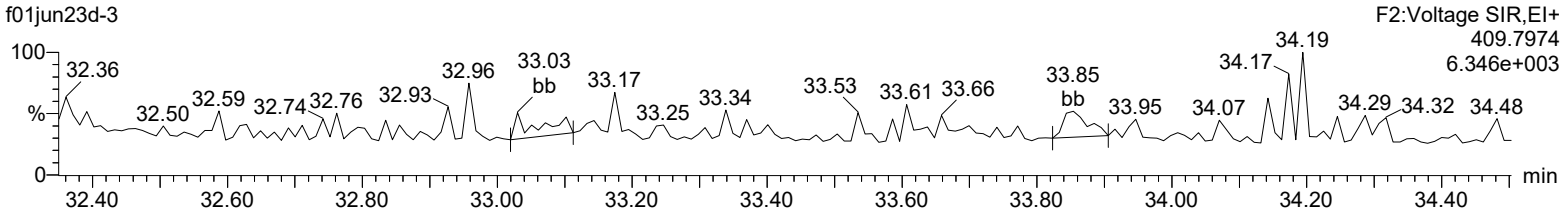
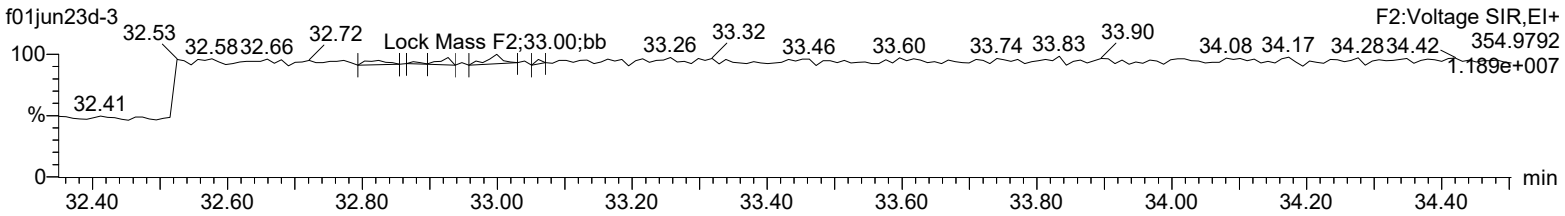


HpDPE



Lock Mass F2



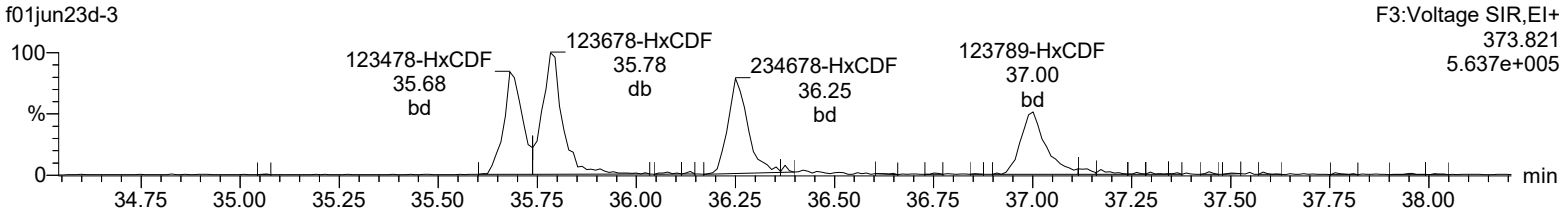
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

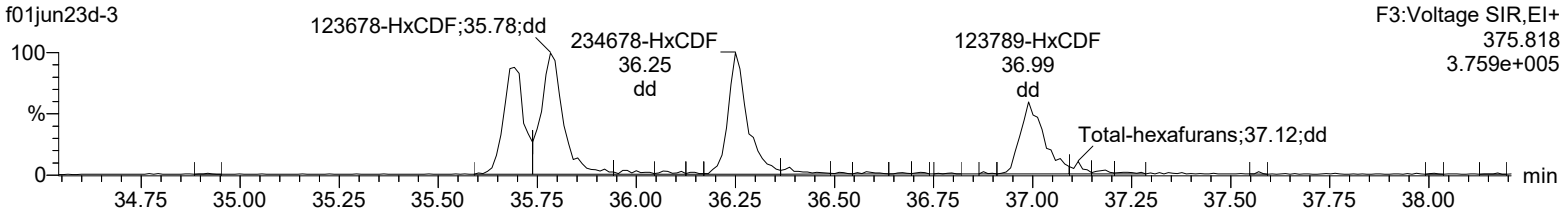
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

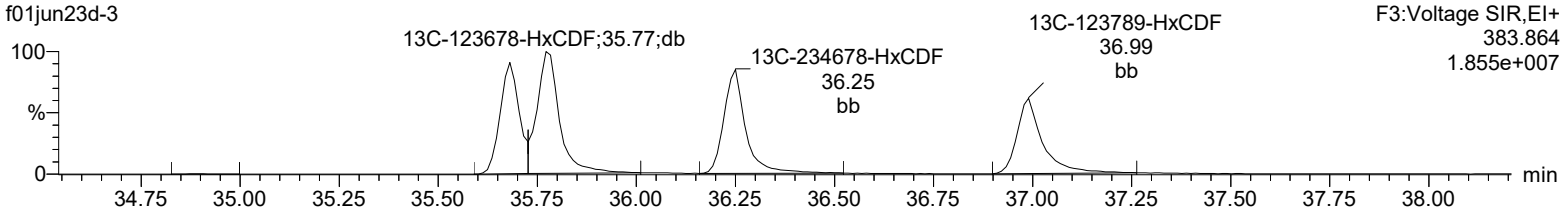
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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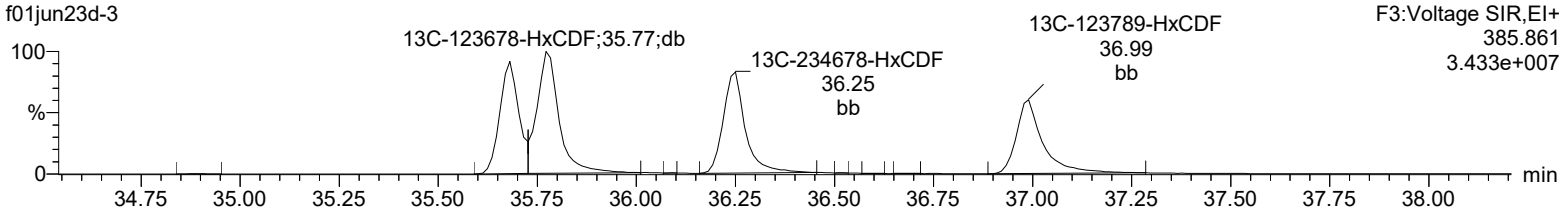
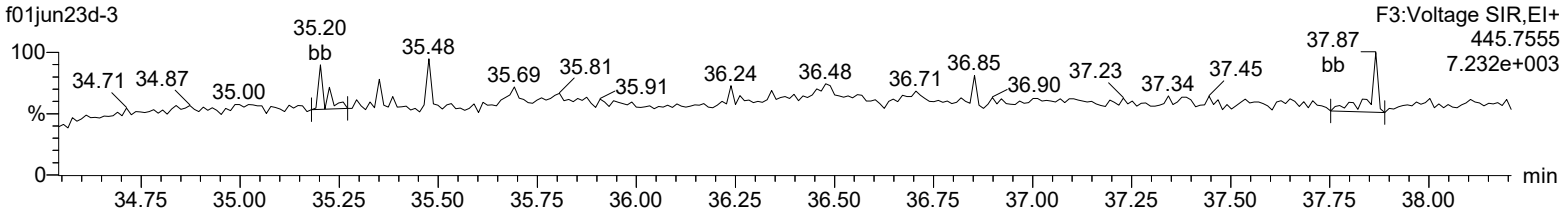
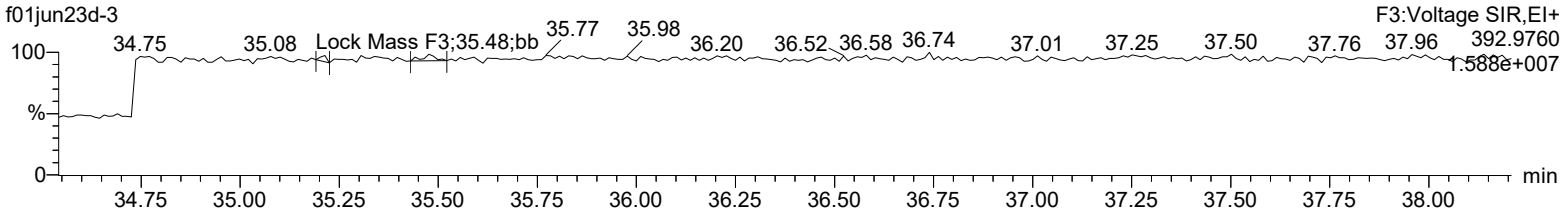


OcDPE



Lock Mass F3



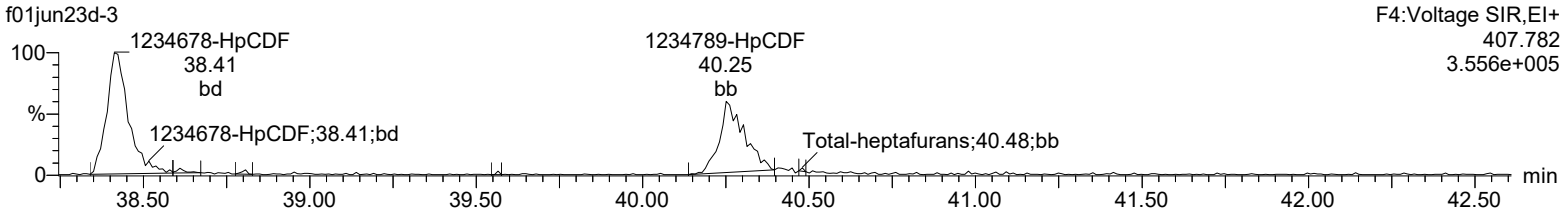
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

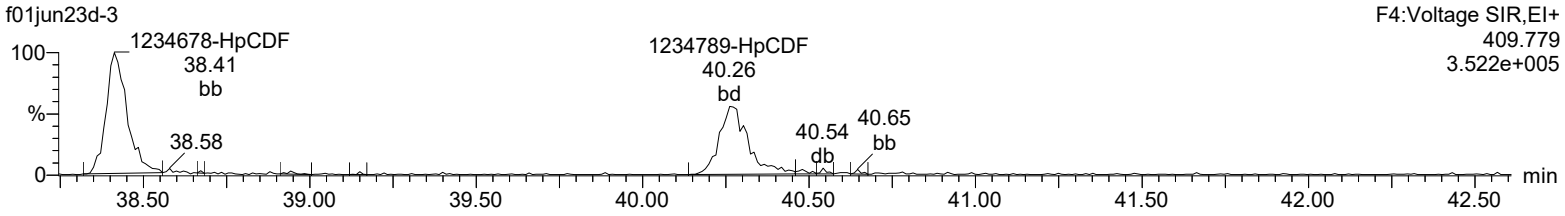
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

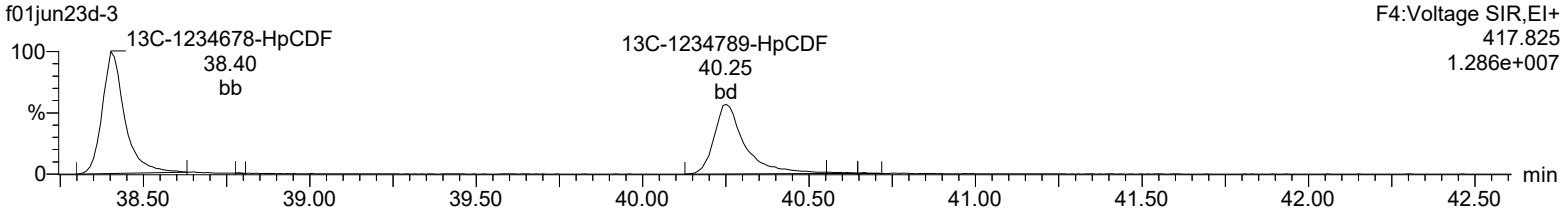
Total-heptafurans



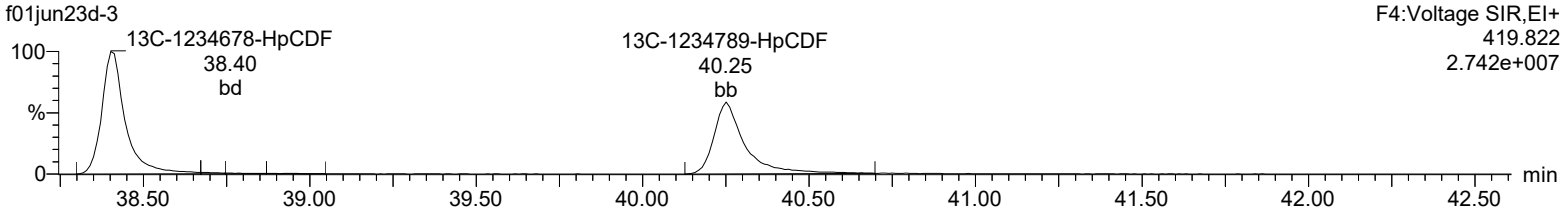
Total-heptafurans



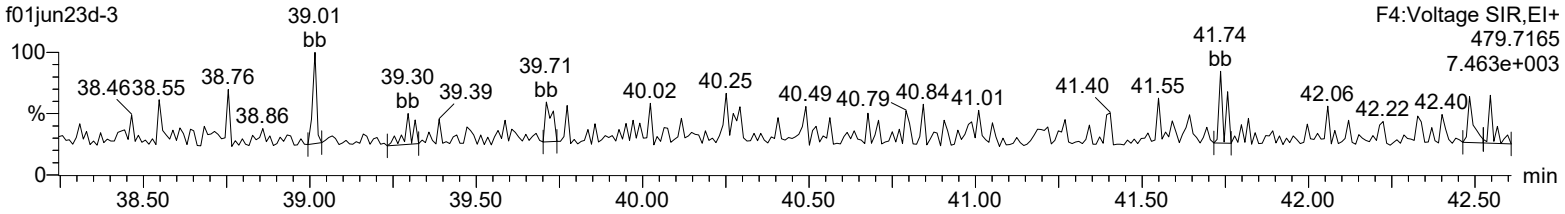
13C-1234678-HpCDF



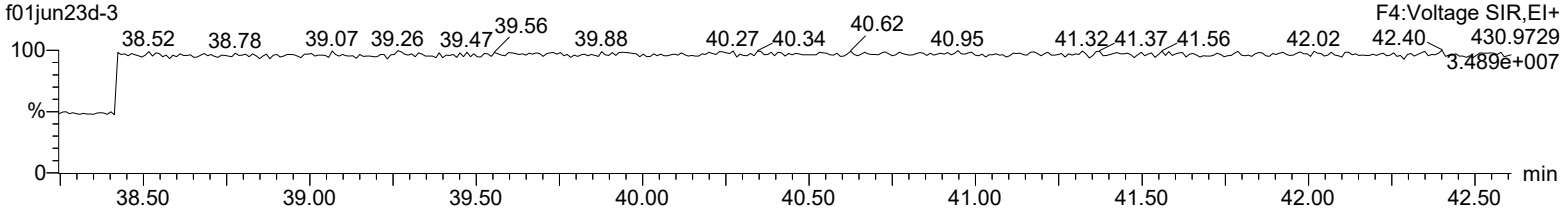
13C-1234678-HpCDF



NoDPE



Lock Mass F4



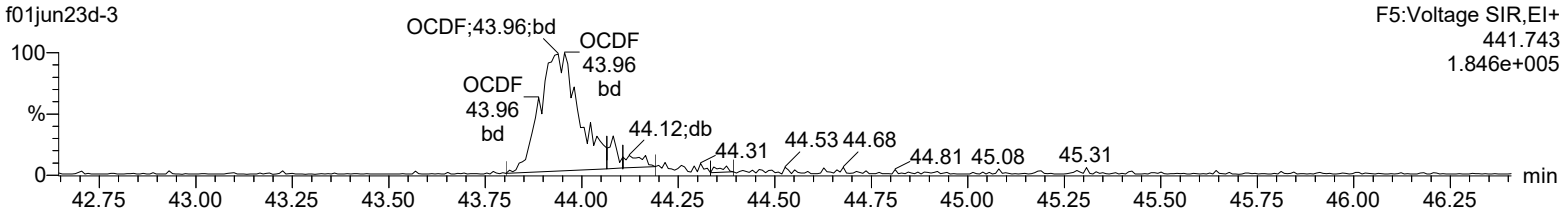
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

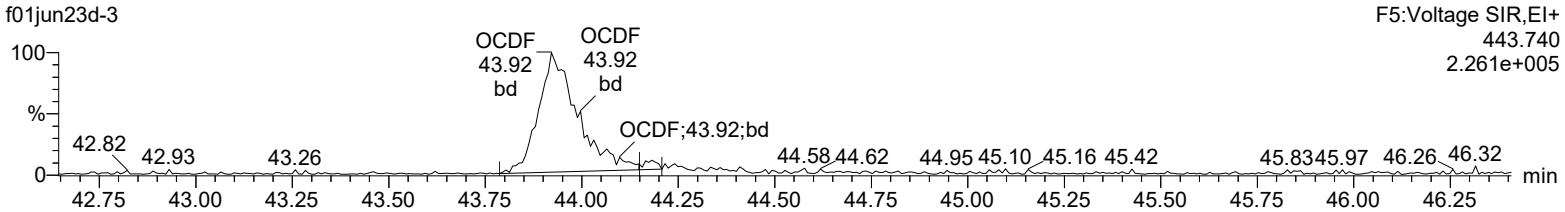
Last Altered: Monday, June 05, 2023 10:31:02 Eastern Daylight Time
Printed: Monday, June 05, 2023 10:31:41 Eastern Daylight Time

Name: f01jun23d-3, Date: 01-Jun-2023, Time: 20:39:34, ID: CS0.5 UD230407-01.1

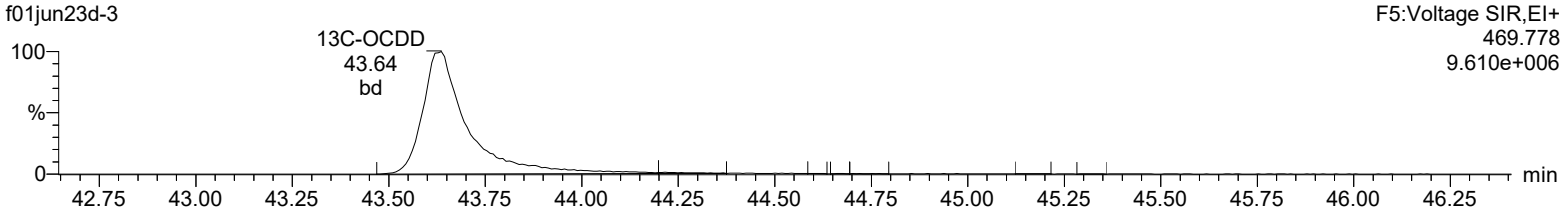
OCDF



OCDF



13C-OCDD



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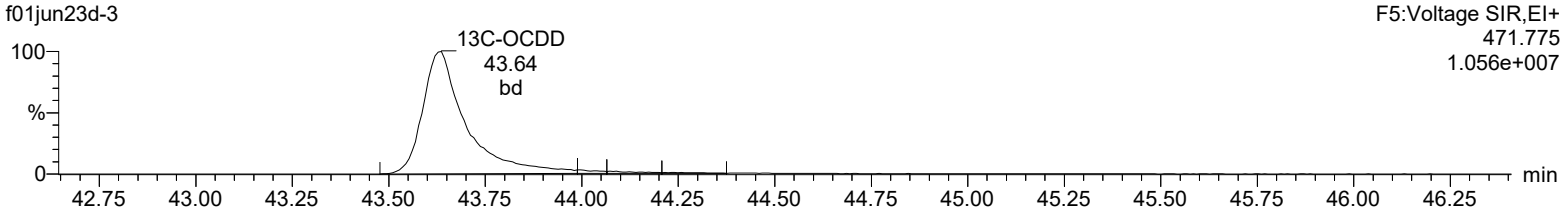
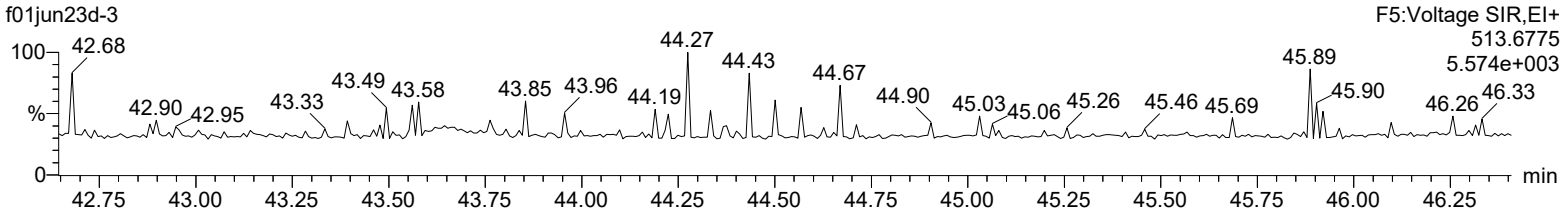
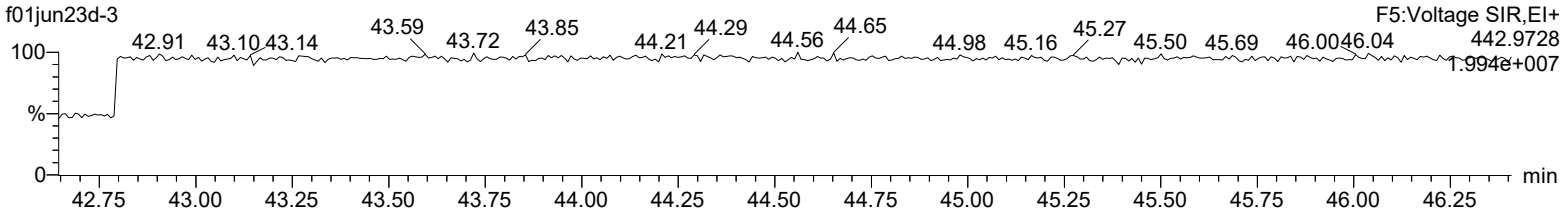


DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:30 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	6.71e3	7.85e3	1.46e4	30.83	1.001	0.86	NO	0.454	0.998	1.100	5.89	0.0262	7.91e4	2606	30.4	8.54e4	765	111.6	bb	bb
2	12378-PeCDD	3.55e4	2.08e4	5.63e4	33.86	1.000	1.71	NO	2.322	1.082	1.164	4.32	0.0408	6.03e5	4443	135.8	3.48e5	2145	162.3	bb	bd
3	123478-HxCDD	2.52e4	2.04e4	4.57e4	36.38	1.000	1.23	NO	2.495	1.070	1.073	4.27	0.0645	4.07e5	4354	93.5	3.11e5	2850	109.3	dd	bd
4	123678-HxCDD	2.83e4	2.27e4	5.11e4	36.46	1.000	1.25	NO	2.281	0.971	1.064	5.73	0.0541	4.30e5	4354	98.8	3.67e5	2850	128.9	dd	dd
5	123789-HxCDD	2.63e4	2.10e4	4.73e4	36.68	1.007	1.25	NO	2.328	0.993	1.066	6.89	0.0589	3.48e5	4354	79.9	2.85e5	2850	99.8	dd	dd
6	1234678-HpCDD	2.57e4	2.21e4	4.78e4	39.62	1.000	1.16	NO	2.359	1.159	1.228	7.21	0.104	2.82e5	4584	61.5	2.39e5	4491	53.2	bd	bb
7	OCDD	3.37e4	3.47e4	6.84e4	43.65	1.001	0.97	NO	4.717	1.044	1.107	6.02	0.266	2.82e5	8069	34.9	3.10e5	3528	87.8	MM	MM
8	2378-TCDF	1.34e4	1.51e4	2.85e4	29.91	1.001	0.88	NO	0.471	1.274	1.352	4.83	0.0500	1.16e5	4412	26.4	1.48e5	5805	25.5	bd	bb
9	12378-PeCDF	8.05e4	4.69e4	1.27e5	33.06	1.000	1.72	NO	2.260	1.151	1.274	6.94	0.0402	1.38e6	7770	177.1	8.24e5	7550	109.2	bd	bb
10	23478-PeCDF	8.20e4	5.06e4	1.33e5	33.68	1.001	1.62	NO	2.371	1.322	1.394	4.15	0.0406	1.44e6	7770	185.9	8.87e5	7550	117.4	bd	bb
11	123478-HxCDF	4.91e4	3.75e4	8.66e4	35.68	1.000	1.31	NO	2.385	1.353	1.418	4.11	0.0515	8.80e5	6656	132.3	6.38e5	6159	103.5	bd	bd
12	123678-HxCDF	6.37e4	4.74e4	1.11e5	35.78	1.000	1.34	NO	2.386	1.315	1.378	4.15	0.0481	9.61e5	6656	144.4	6.76e5	6159	109.8	dd	dd
13	234678-HxCDF	5.08e4	4.26e4	9.35e4	36.25	1.000	1.19	NO	2.406	1.368	1.422	5.96	0.0569	7.61e5	6656	114.4	6.58e5	6159	106.9	bb	dd
14	123789-HxCDF	4.35e4	3.26e4	7.60e4	37.00	1.001	1.34	NO	2.443	1.273	1.302	5.43	0.0837	5.40e5	6656	81.1	3.73e5	6159	60.6	bb	MM
15	1234678-HpCDF	5.80e4	4.90e4	1.07e5	38.41	1.000	1.18	NO	2.484	1.375	1.384	4.56	0.0545	6.76e5	5792	116.7	6.80e5	5644	120.4	bb	bb
16	1234789-HpCDF	3.81e4	3.75e4	7.56e4	40.26	1.000	1.02	NO	2.301	1.255	1.364	8.52	0.0917	4.20e5	5792	72.4	3.94e5	5644	69.8	bd	bd
17	OCDF	4.65e4	5.22e4	9.87e4	43.93	1.007	0.89	NO	4.303	1.508	1.752	16.82	0.172	3.79e5	6494	58.3	4.23e5	5395	78.4	bd	bd
18	13C-2378-TCDD	1.28e6	1.64e6	2.92e6	30.81	1.023	0.78	NO	97.987	1.116	1.139	2.81	0.140	1.28e7	9897	1291.5	1.61e7	4815	3337.1	bb	bd
19	13C-12378-PeCDD	1.29e6	7.90e5	2.08e6	33.85	1.124	1.63	NO	97.937	0.796	0.813	6.11	0.210	2.15e7	7387	2910.7	1.32e7	8366	1583.7	bd	bb
20	13C-123478-HxCDD	1.00e6	7.06e5	1.71e6	36.36	0.991	1.42	NO	97.466	0.826	0.847	3.44	0.219	1.53e7	10881	1401.6	1.21e7	8680	1399.2	bd	bd
21	13C-123678-HxCDD	1.14e6	9.66e5	2.10e6	36.44	0.993	1.18	NO	99.179	1.019	1.027	0.98	0.181	1.69e7	10881	1555.1	1.35e7	8680	1553.3	dd	dd
22	13C-1234678-HpCDD	8.66e5	7.84e5	1.65e6	39.61	1.080	1.10	NO	99.829	0.799	0.800	2.20	0.288	9.31e6	11537	807.1	8.45e6	12721	664.3	bd	bd
23	13C-OCDD	1.27e6	1.35e6	2.62e6	43.63	1.189	0.94	NO	194.356	0.634	0.653	4.31	0.418	9.55e6	13402	712.4	1.06e7	15270	691.7	bd	bd
24	13C-2378-TCDF	1.99e6	2.49e6	4.47e6	29.89	0.992	0.80	NO	98.617	1.710	1.734	1.52	0.104	1.68e7	9319	1798.0	2.06e7	7377	2799.2	bb	bd
25	13C-12378-PeCDF	2.76e6	1.66e6	4.43e6	33.06	1.098	1.66	NO	98.474	1.693	1.719	3.99	0.368	4.67e7	29968	1559.8	2.84e7	28321	1001.7	db	dd
26	13C-23478-PeCDF	2.50e6	1.51e6	4.01e6	33.66	1.117	1.65	NO	94.723	1.534	1.619	7.01	0.391	4.22e7	29968	1407.3	2.54e7	28321	895.9	bb	bb
27	13C-123478-HxCDF	8.92e5	1.67e6	2.56e6	35.67	0.972	0.54	NO	95.994	1.240	1.291	3.13	0.275	1.53e7	18604	821.3	2.92e7	18731	1556.3	bd	bd
28	13C-123678-HxCDF	1.19e6	2.19e6	3.38e6	35.77	0.975	0.55	NO	102.380	1.636	1.598	1.73	0.222	1.71e7	18604	917.1	3.13e7	18731	1672.4	dd	db
29	13C-234678-HxCDF	9.60e5	1.77e6	2.73e6	36.24	0.988	0.54	NO	98.906	1.323	1.338	1.29	0.265	1.39e7	18604	747.6	2.56e7	18731	1368.3	bd	bb
30	13C-123789-HxCDF	8.38e5	1.55e6	2.39e6	36.98	1.008	0.54	NO	97.274	1.157	1.190	2.59	0.298	1.03e7	18604	553.8	1.89e7	18731	1006.9	bb	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 08:56:30 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	9.82e5	2.13e6	3.11e6	38.40	1.047	0.46	NO	98.019	1.506	1.537	2.02	0.287	1.20e7	20024	597.9	2.51e7	26349	953.2	bd	bb
32	13C-1234789-HpCDF	7.70e5	1.64e6	2.41e6	40.25	1.097	0.47	NO	97.353	1.166	1.198	2.23	0.368	7.31e6	20024	365.2	1.56e7	26349	590.8	bd	bb
33	13C-1234-TCDD	1.17e6	1.45e6	2.62e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.160	1.03e7	9897	1041.1	1.28e7	4815	2666.6	bb	bb
34	13C-123789-HxCDD	1.15e6	9.11e5	2.07e6	36.68	0.000	1.27	NO	100.000	1.000	1.000	0.00	0.186	1.47e7	10881	1350.8	1.13e7	8680	1298.4	dd	dd
35	37Cl-2378-TCDD	1.39e4		1.39e4	30.82	1.023			0.472	1.062	1.124	6.42	0.0191	1.42e5	1983	71.6				bb	

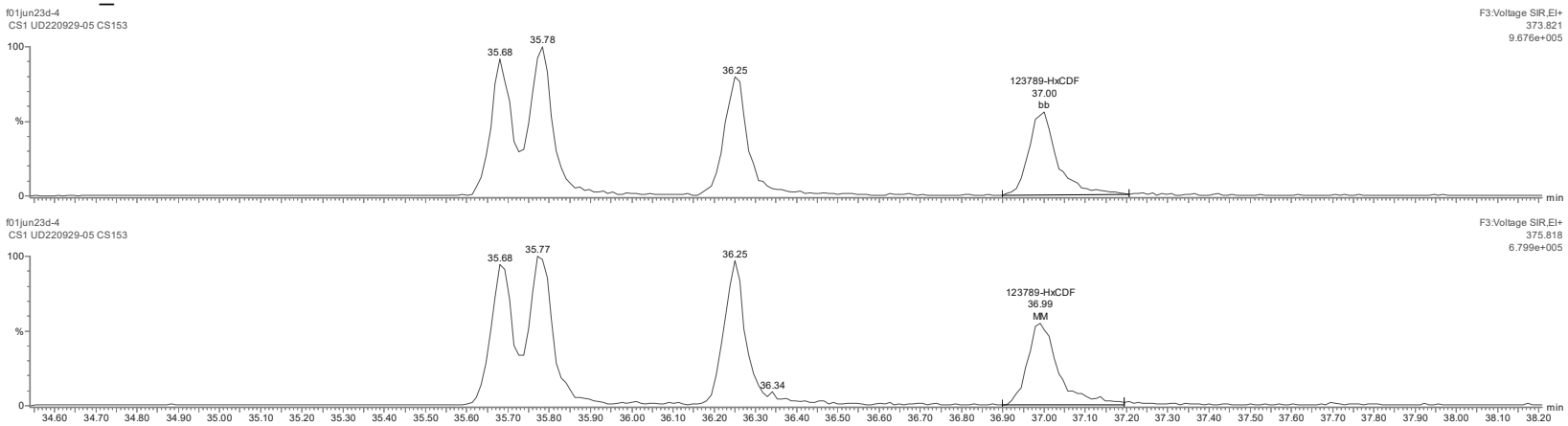
Reasons for Analyst Intervention

Name:f01jun23d-4, ID:

M	M2
7 OCDD 43.65 - AB	7 OCDD 43.65 - AB
	14 123789-HxCDF 37.00 - AB

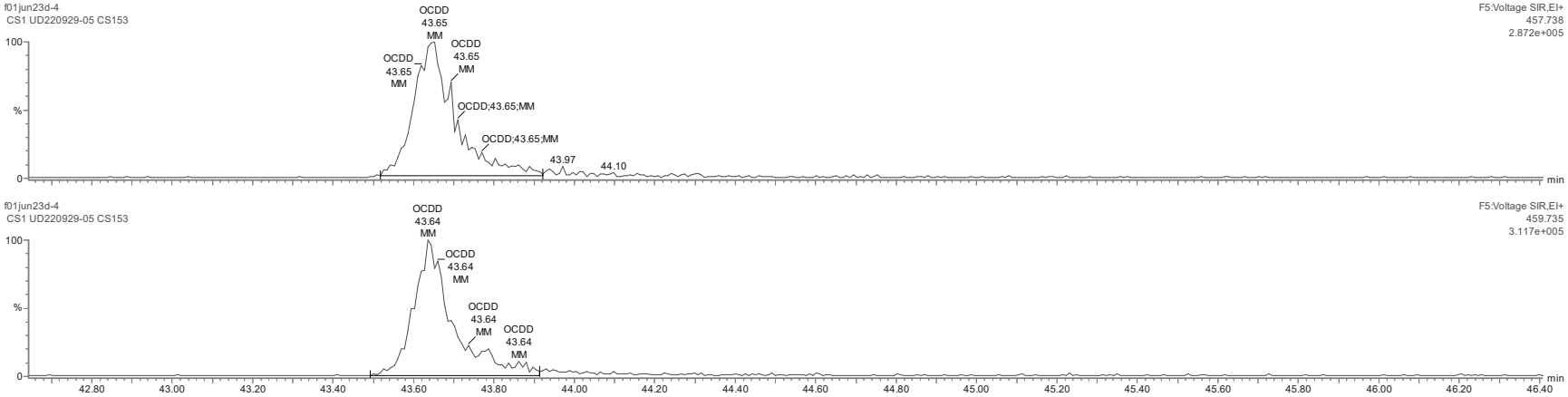
Reason Codes assigned by SM1 on 06-JUN-23

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/02/2023 06/06/2023

MANUAL INTEGRATION
METHOD 1613
HRP722_2



06/05/2023 06/06/2023

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

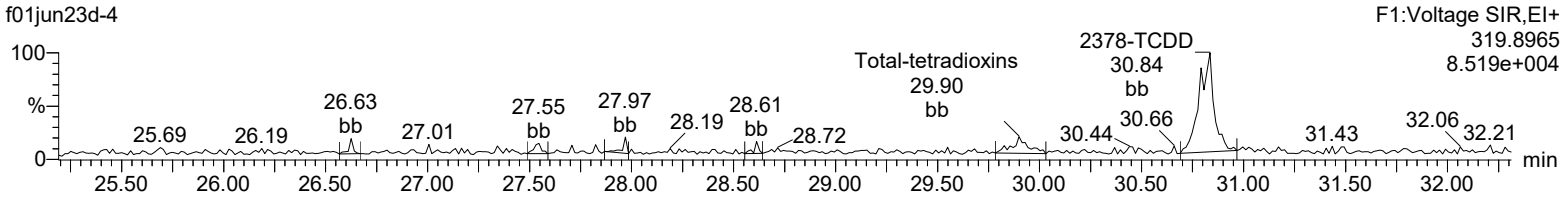
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

06/06/2023

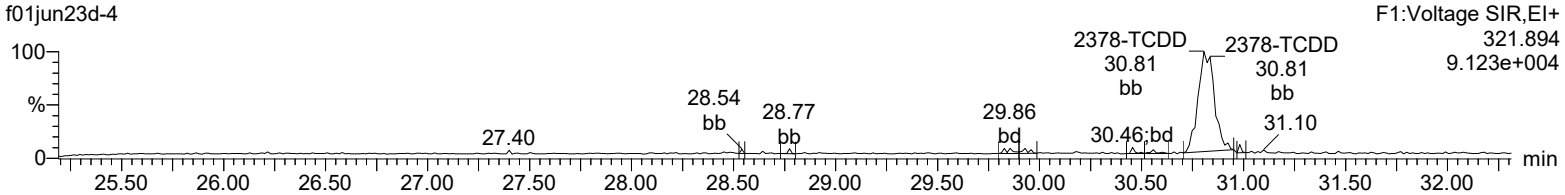
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

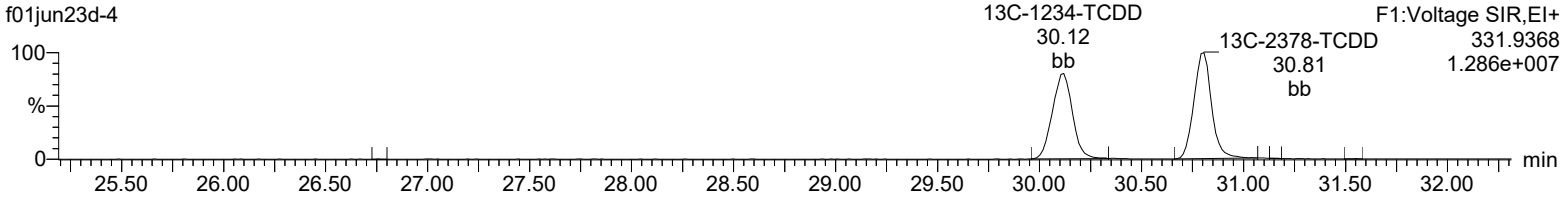
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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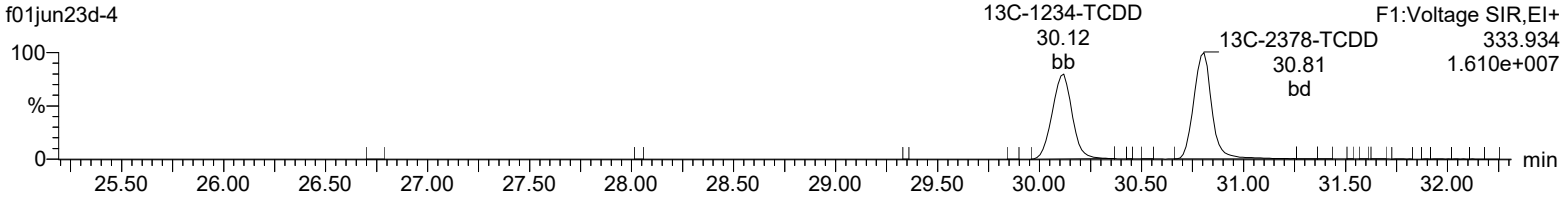
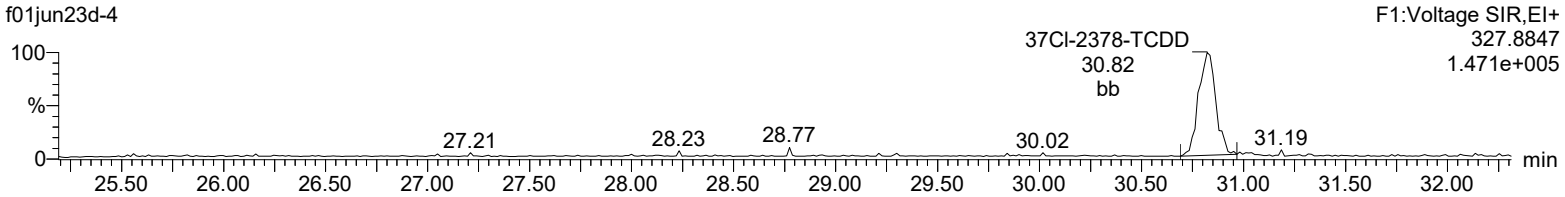
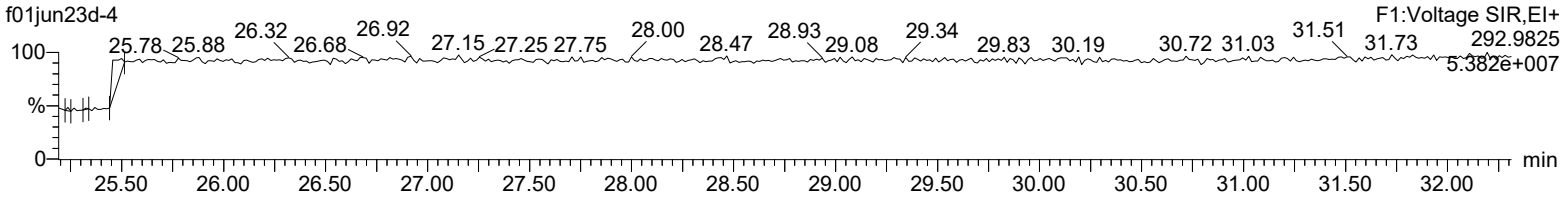


37Cl-2378-TCDD



Lock Mass F1



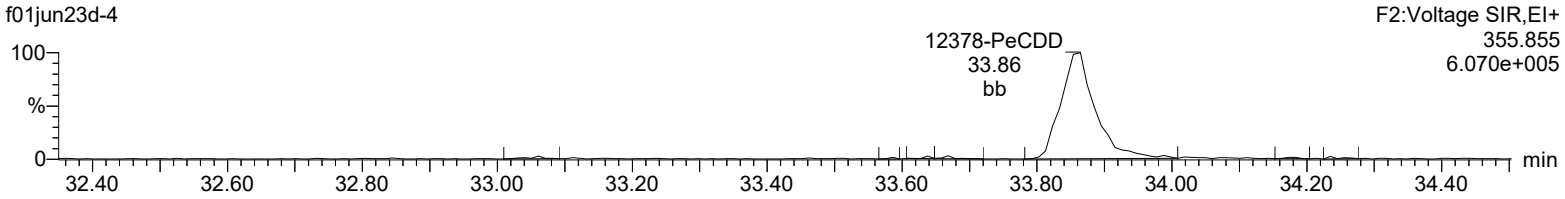
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

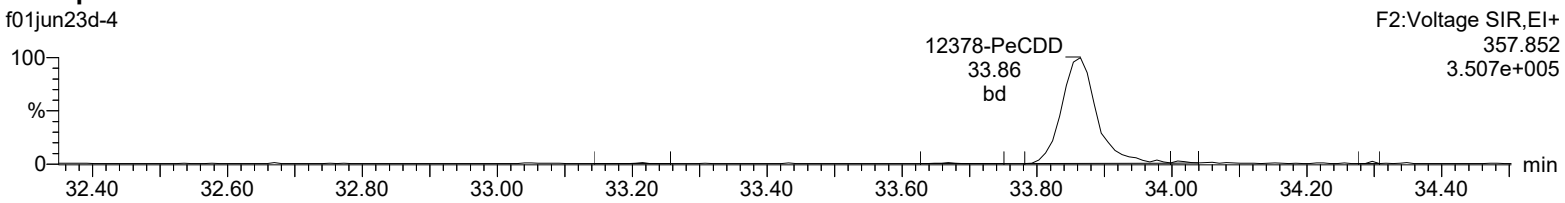
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

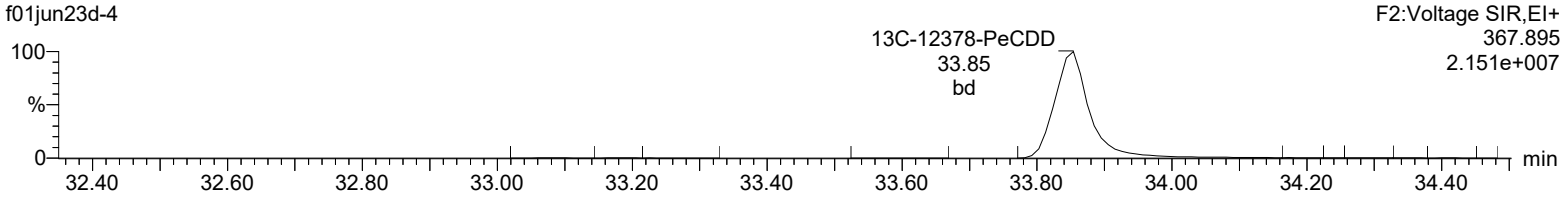
Total-pentadioxins



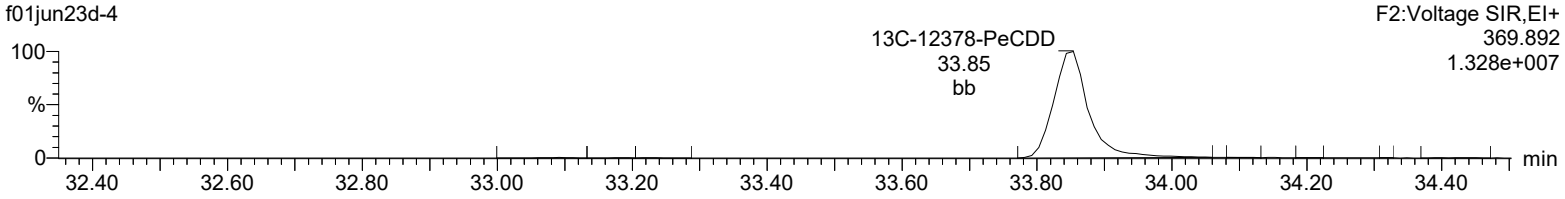
Total-pentadioxins



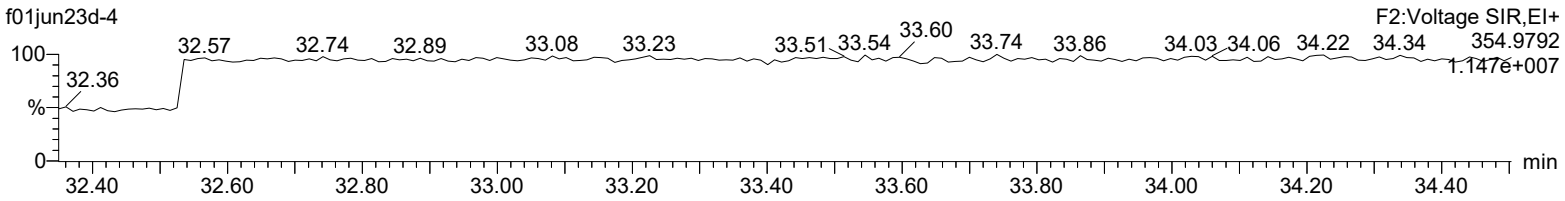
13C-12378-PeCDD



13C-12378-PeCDD



Lock Mass F2



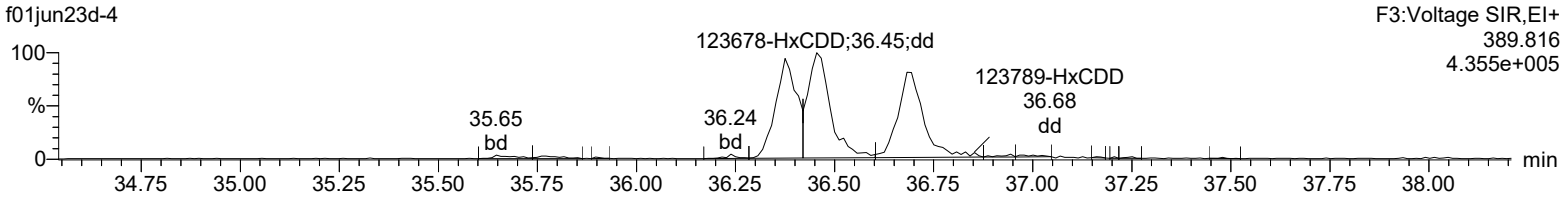
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

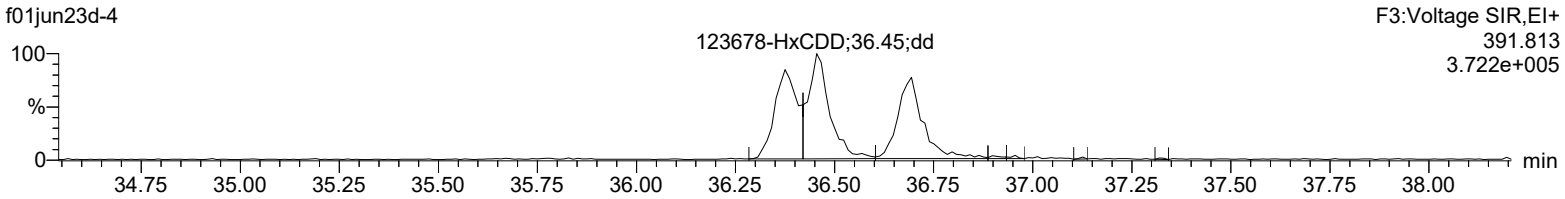
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

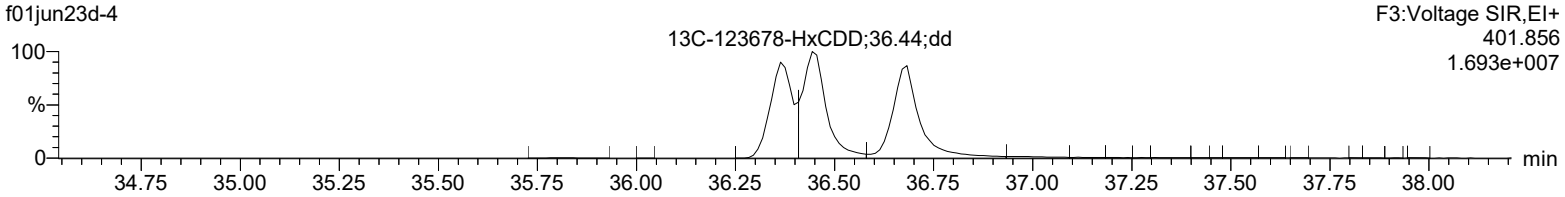
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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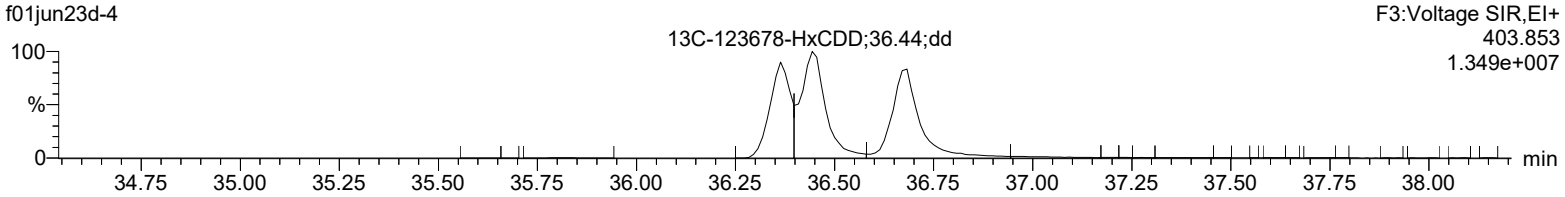
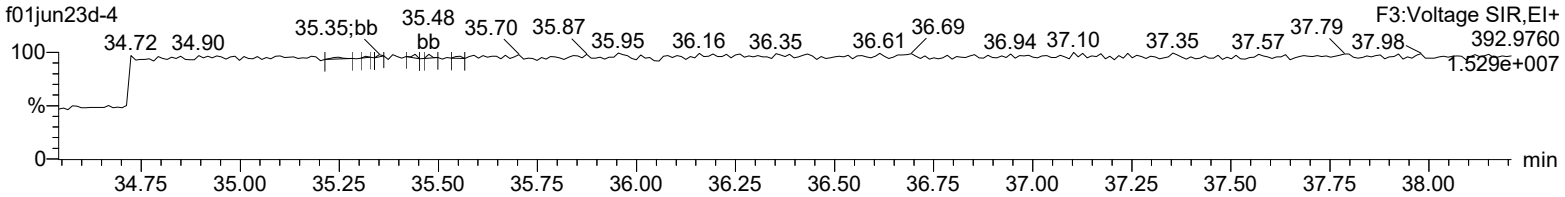


Lock Mass F3



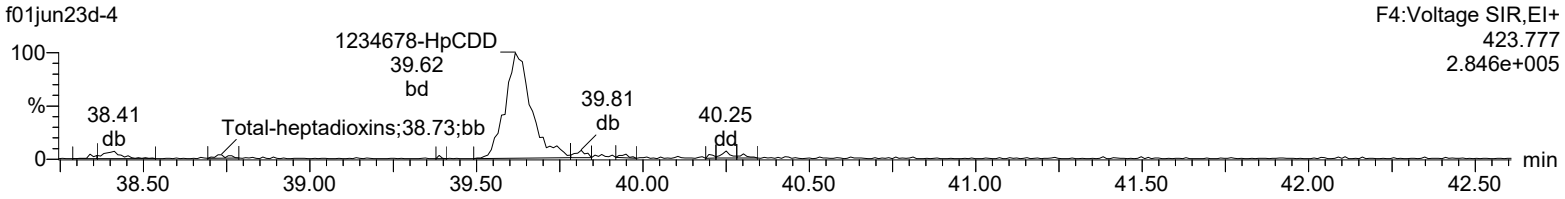
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

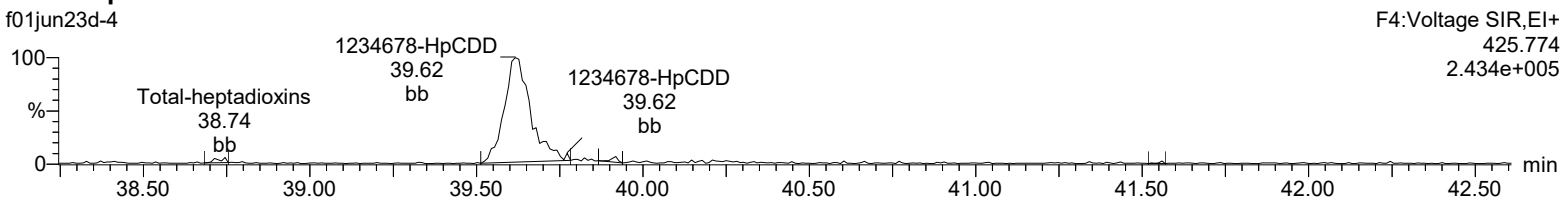
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

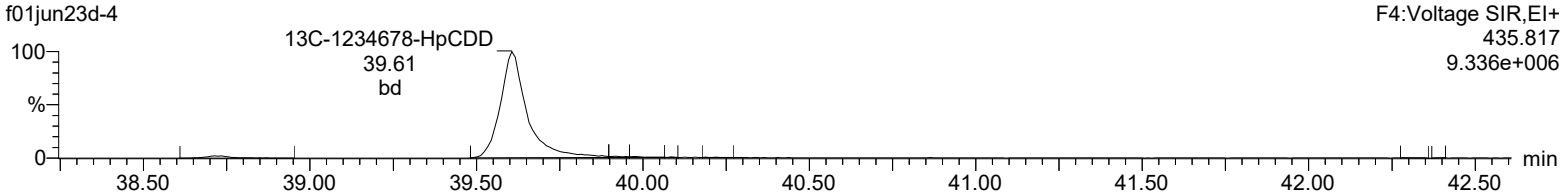
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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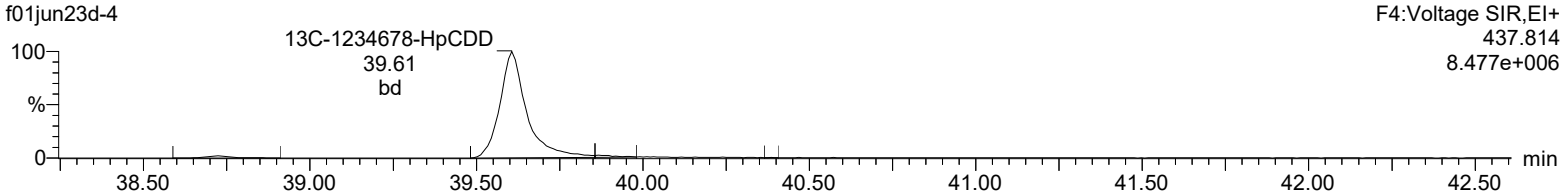
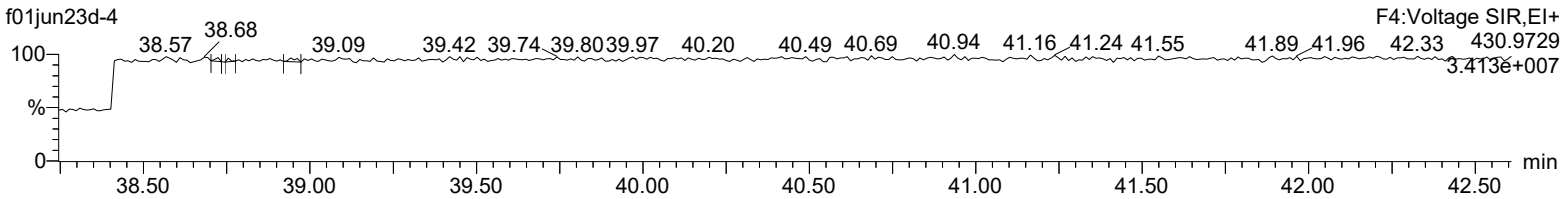


Lock Mass F4



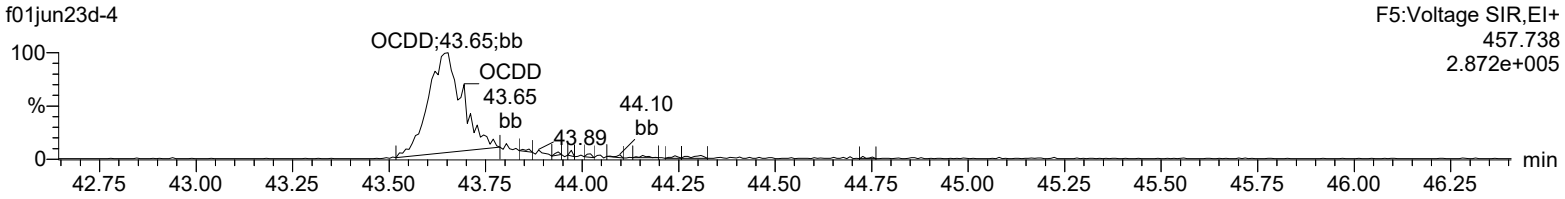
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

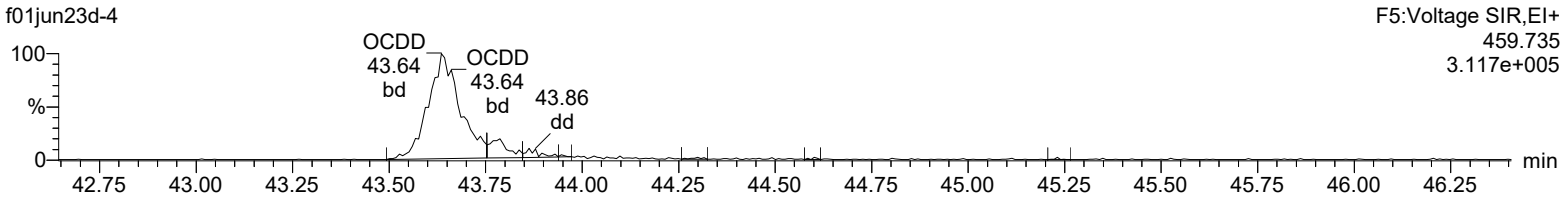
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

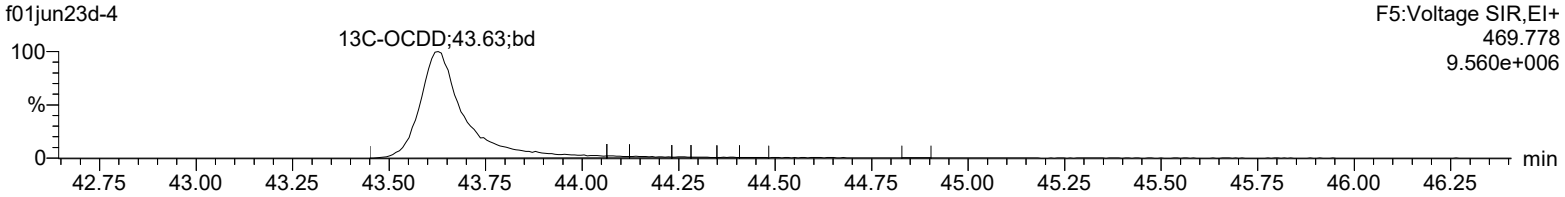
OCDD



OCDD



13C-OCDD



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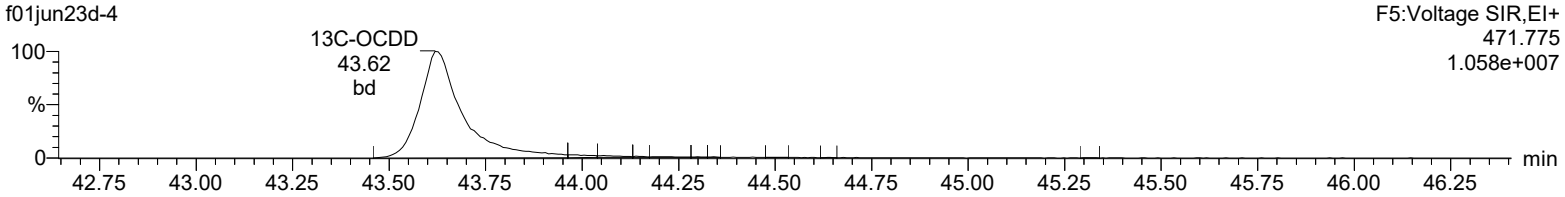
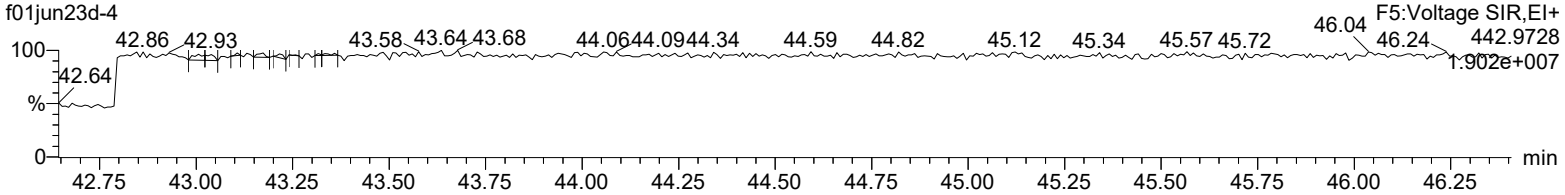


Lock Mass F5



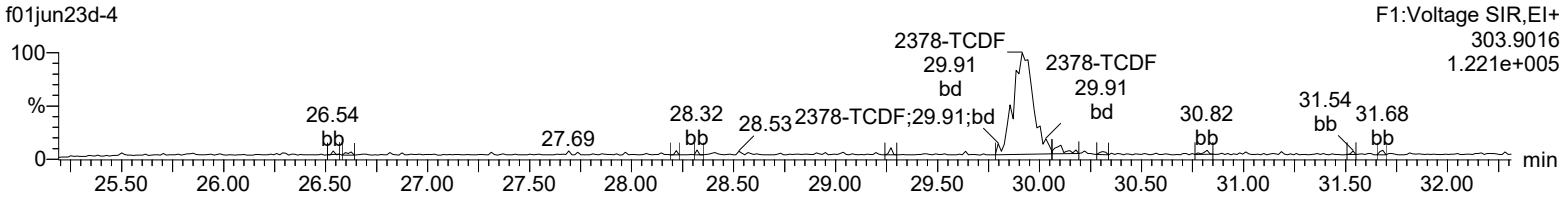
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

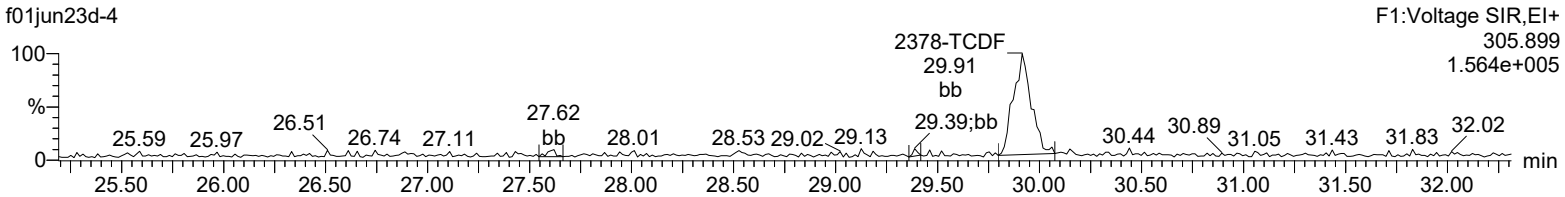
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

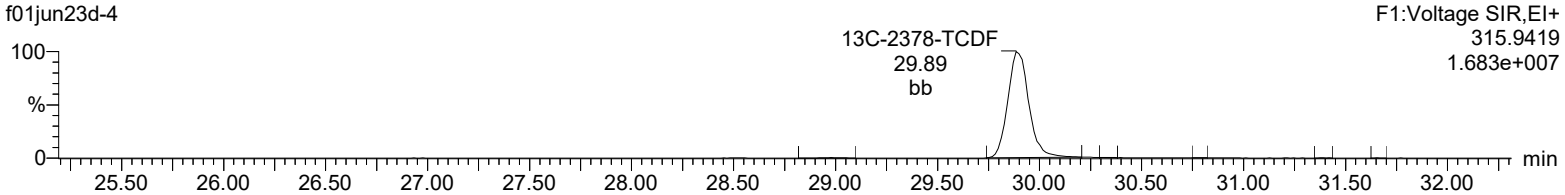
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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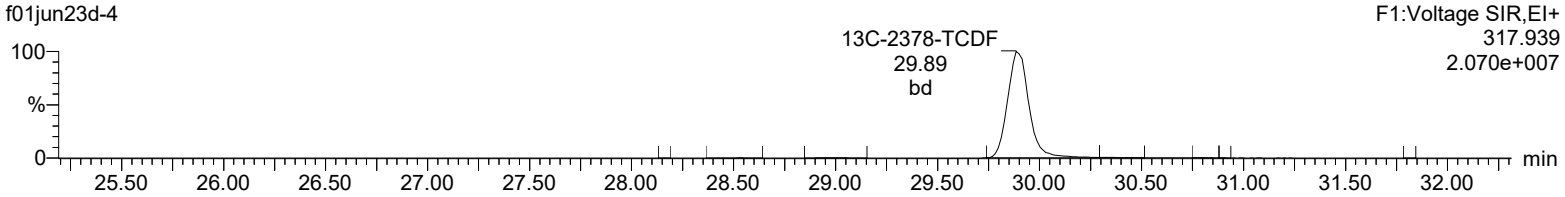
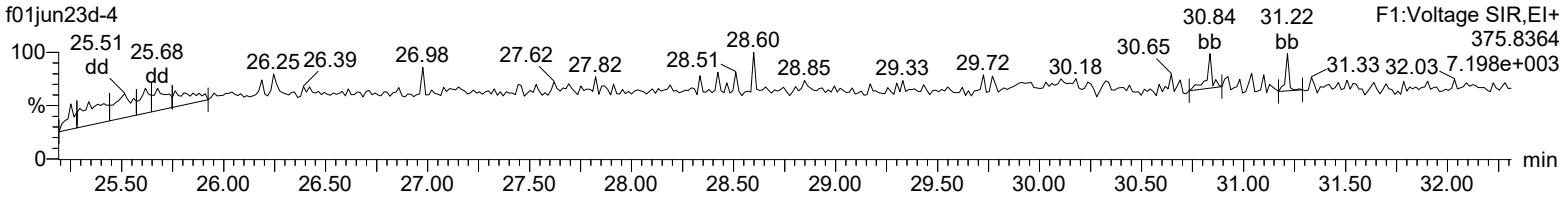
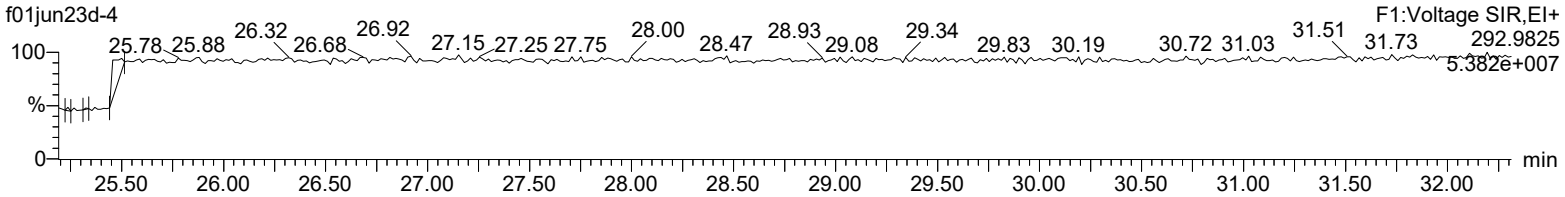


HxDPE



Lock Mass F1



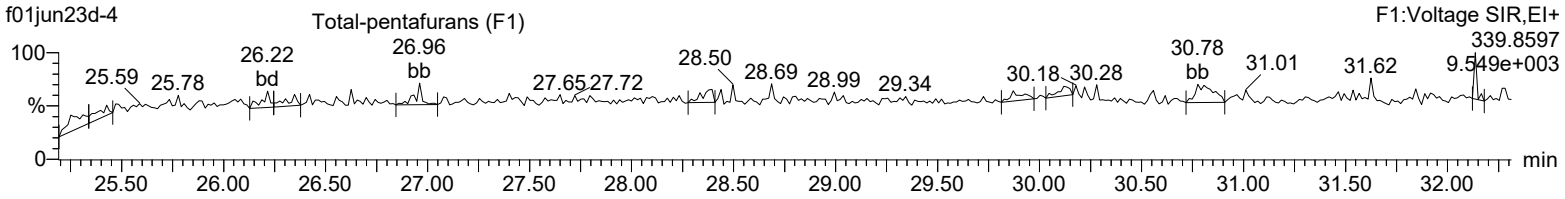
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

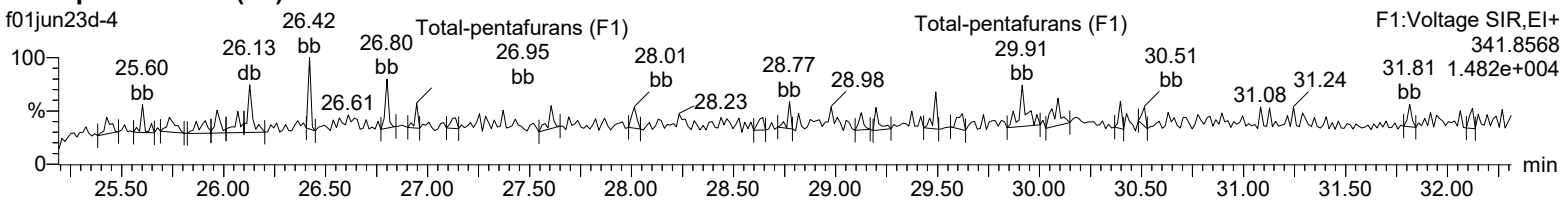
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

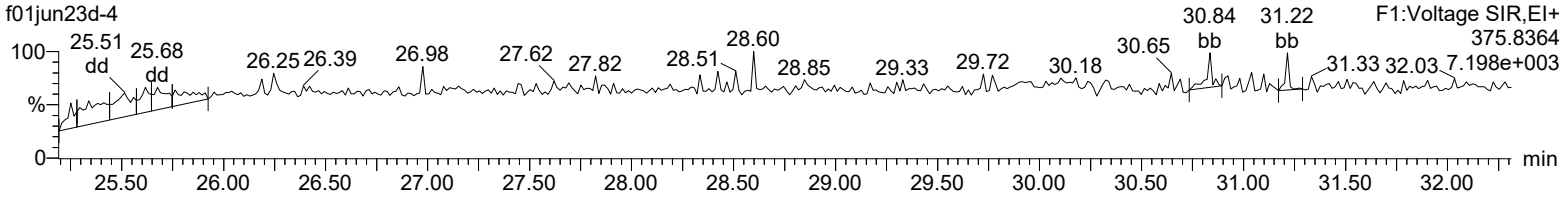
Total-pentafurans (F1)



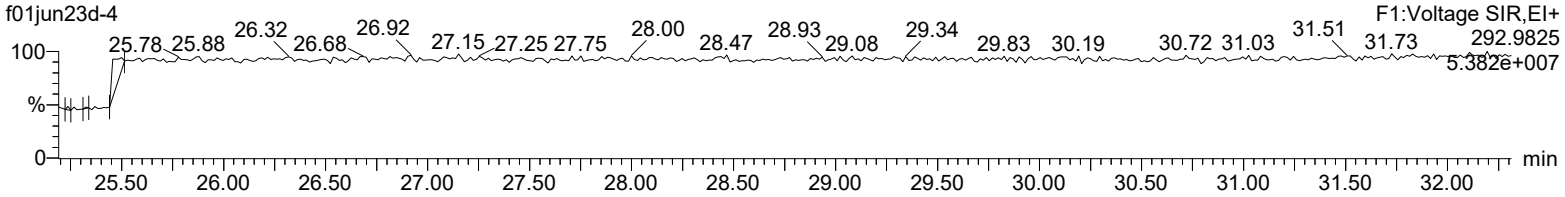
Total-pentafurans (F1)



HxDPE



Lock Mass F1



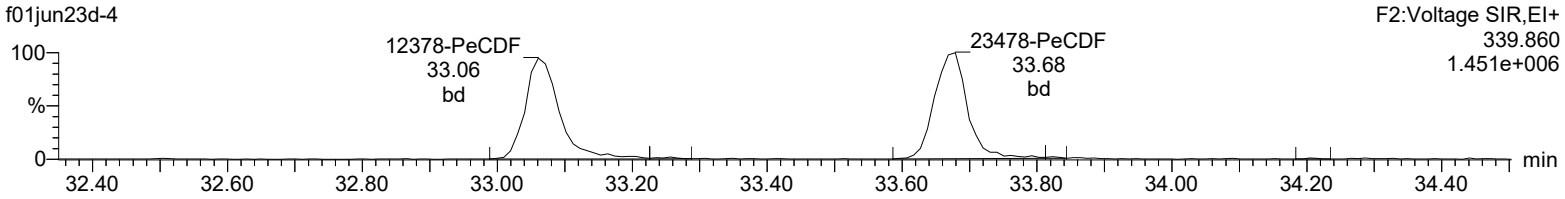
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

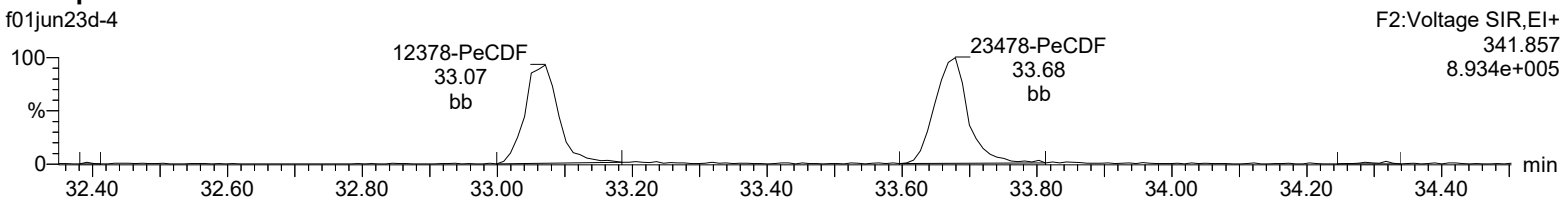
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

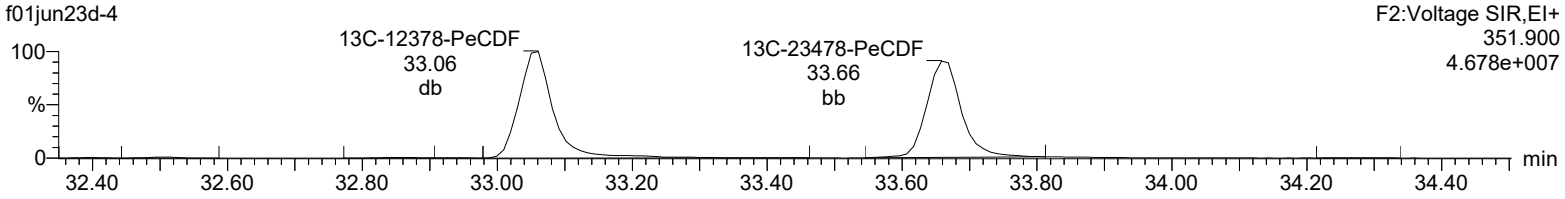
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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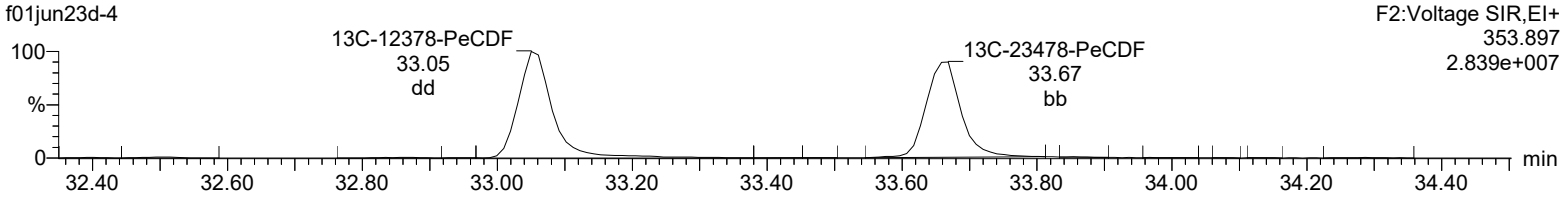
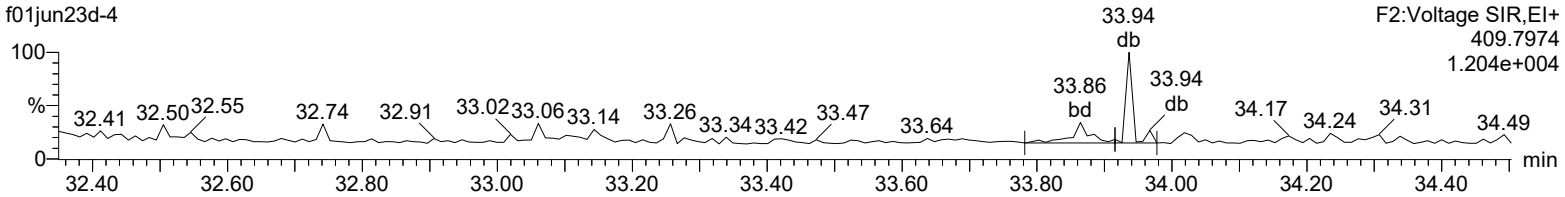
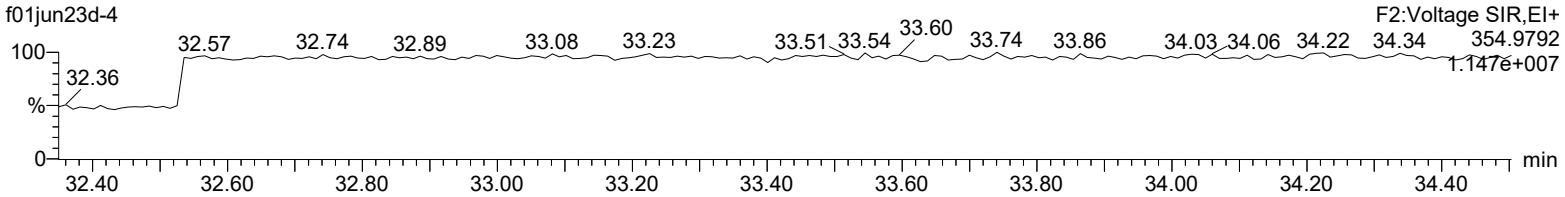


HpDPE



Lock Mass F2



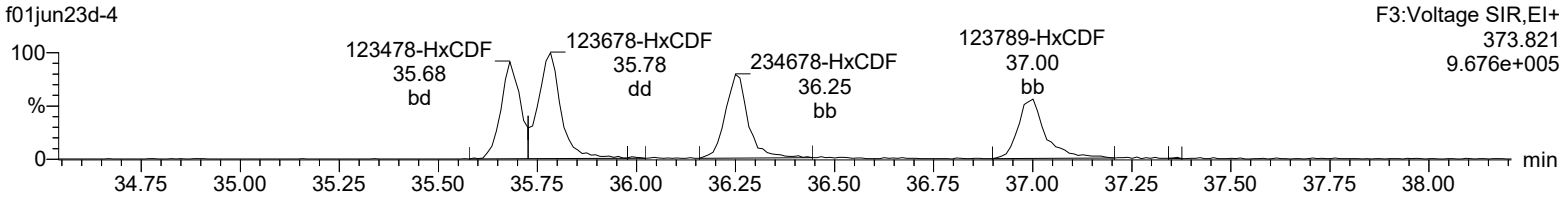
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

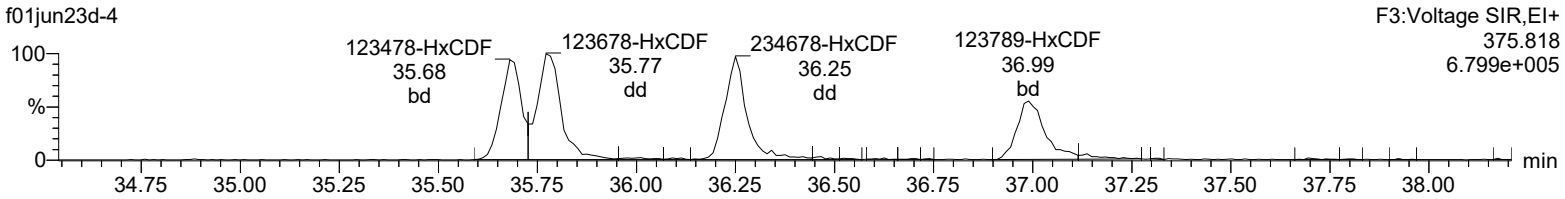
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

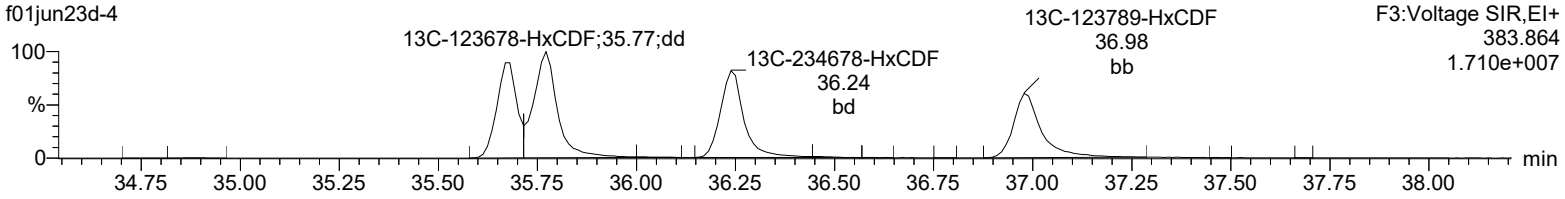
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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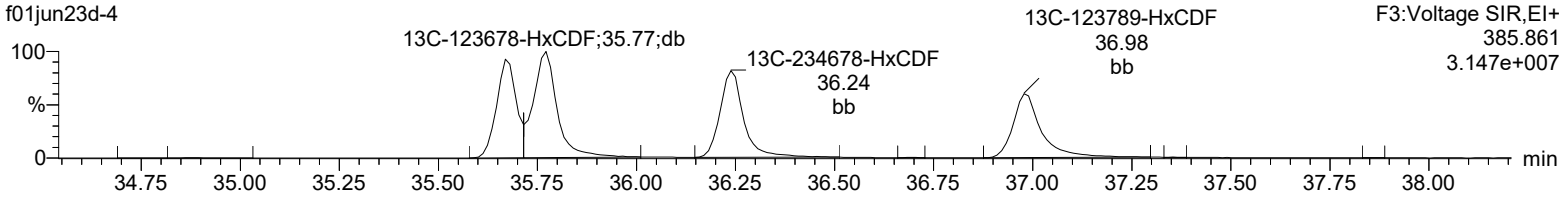
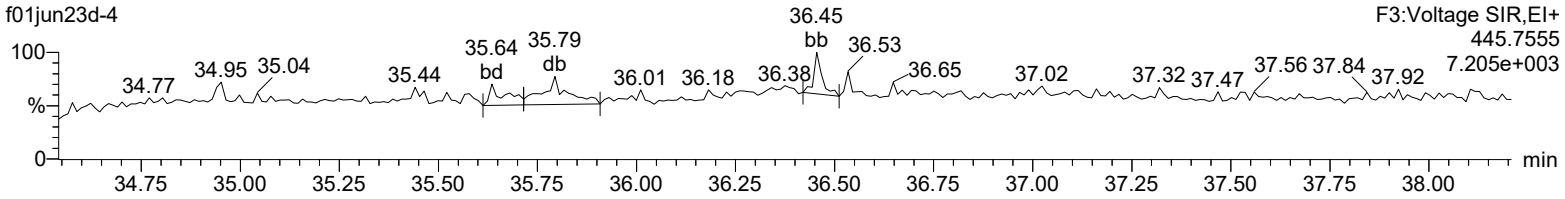
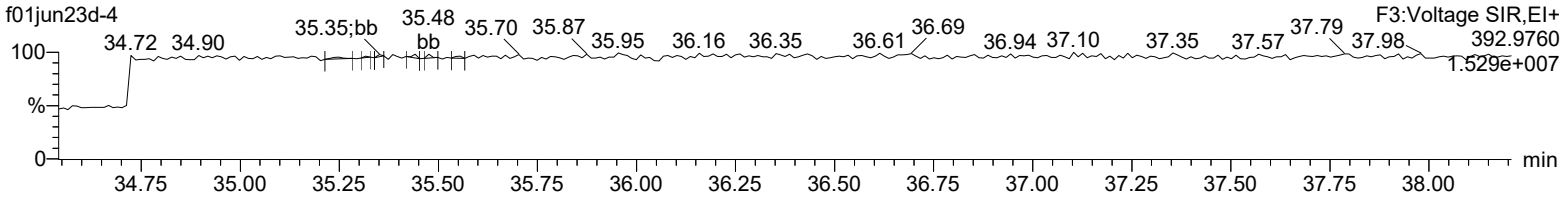


OcDPE



Lock Mass F3



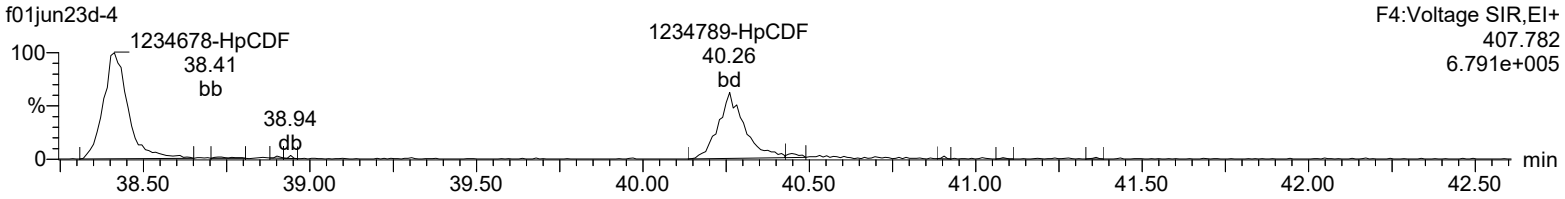
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

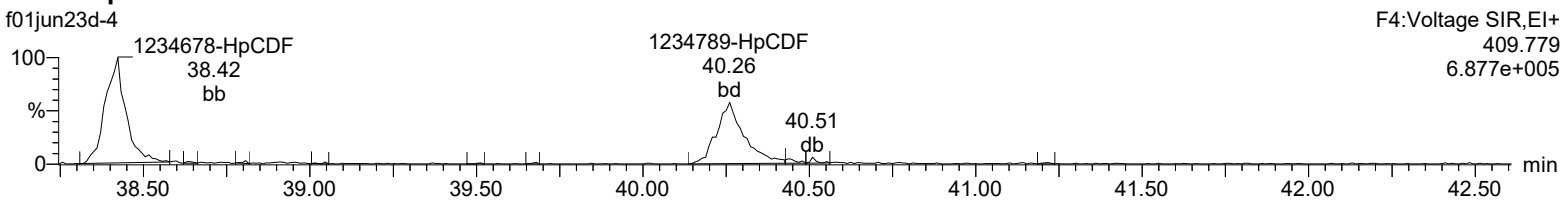
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

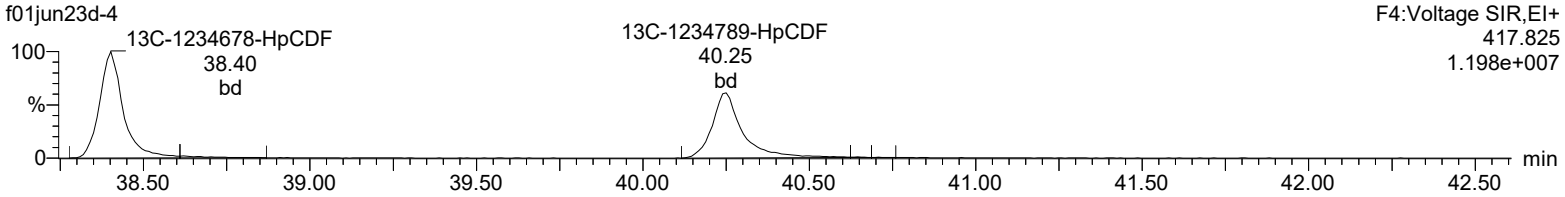
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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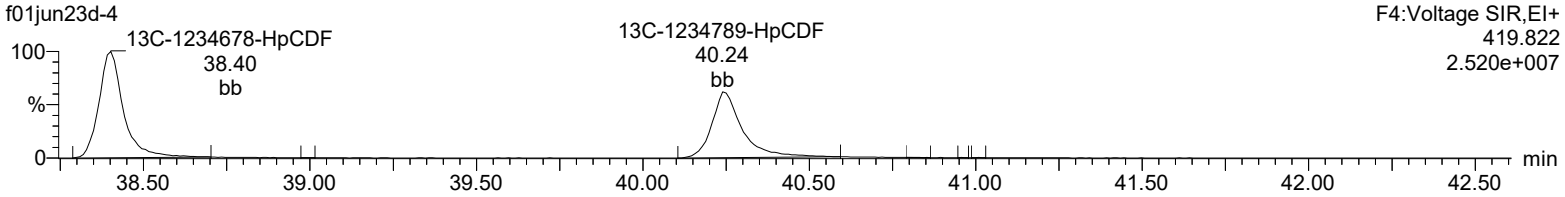
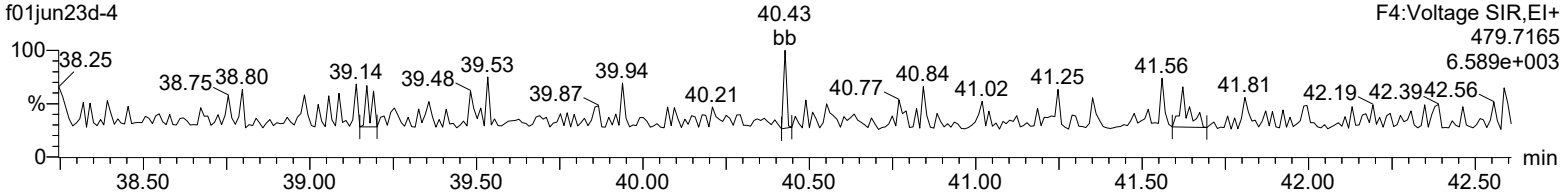
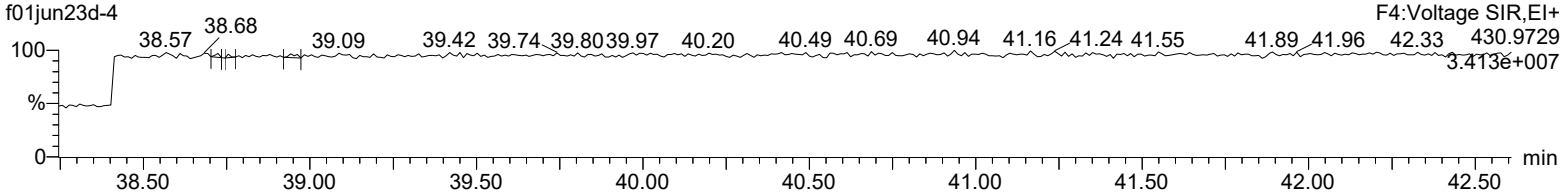


NoDPE



Lock Mass F4



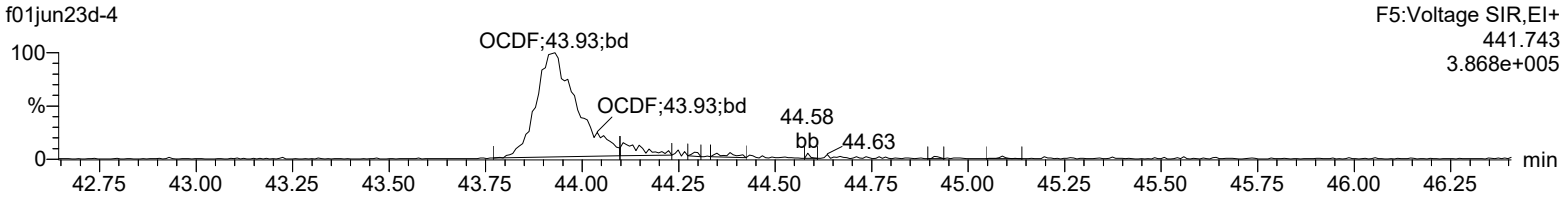
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

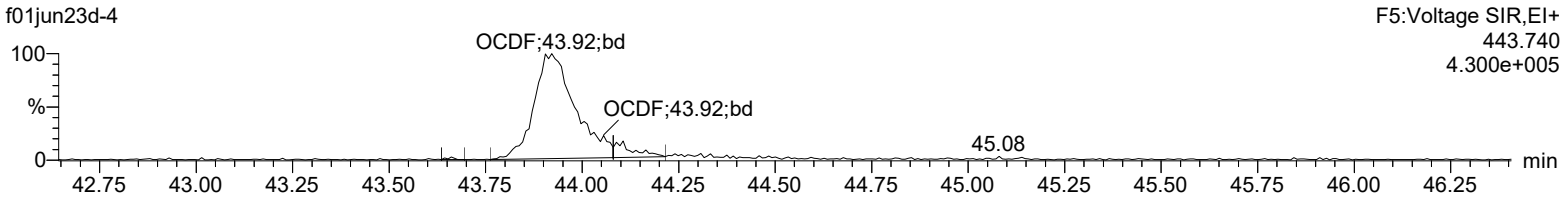
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:15:34 Eastern Daylight Time

Name: f01jun23d-4, Date: 01-Jun-2023, Time: 21:28:29, ID: CS1 UD220929-05 CS153

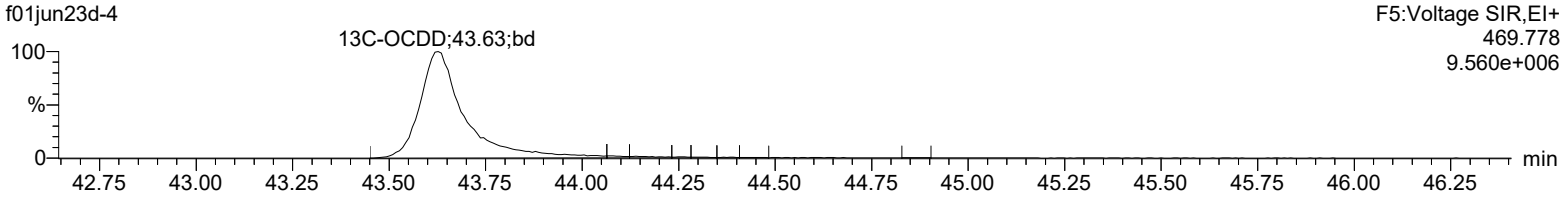
OCDF



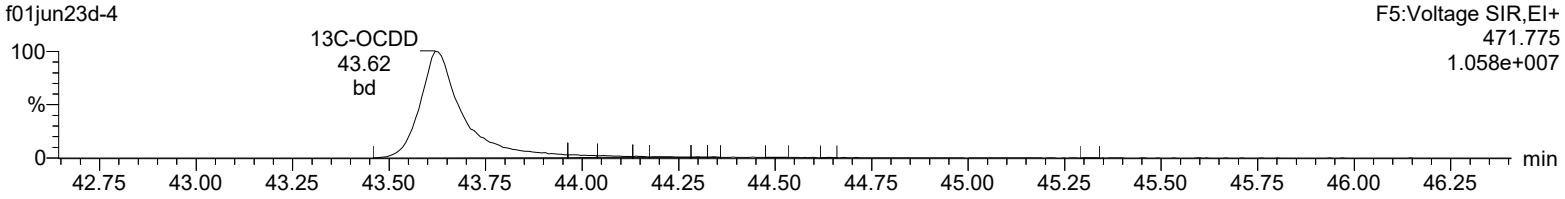
OCDF



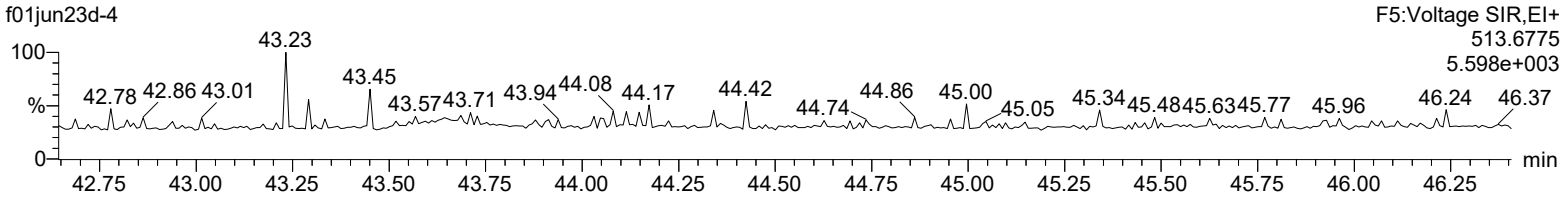
13C-OCDD



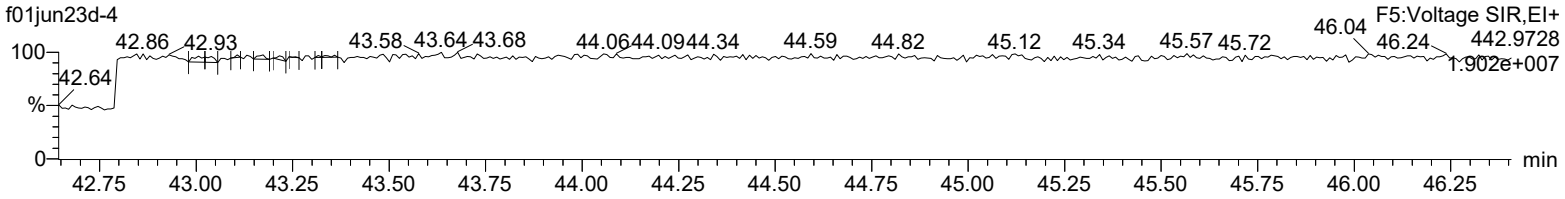
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:48:57 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	2.88e4	3.46e4	6.34e4	30.82	1.000	0.83	NO	1.906	1.048	1.100	5.89	0.0158	3.09e5	1575	196.4	3.81e5	273	1395.9	bb	bb
2	12378-PeCDD	1.54e5	9.14e4	2.46e5	33.86	1.000	1.69	NO	9.849	1.147	1.164	4.32	0.0676	2.89e6	6232	463.3	1.68e6	3397	495.1	bd	bb
3	123478-HxCDD	1.08e5	8.34e4	1.92e5	36.38	1.000	1.30	NO	9.895	1.061	1.073	4.27	0.101	1.83e6	6176	296.4	1.39e6	4443	313.9	dd	bd
4	123678-HxCDD	1.30e5	1.01e5	2.31e5	36.47	1.000	1.28	NO	9.905	1.054	1.064	5.73	0.0925	1.92e6	6176	311.1	1.55e6	4443	349.6	dd	dd
5	123789-HxCDD	1.23e5	9.15e4	2.14e5	36.69	1.007	1.34	NO	10.059	1.073	1.066	6.89	0.0966	1.68e6	6176	272.1	1.26e6	4443	283.2	dd	dd
6	1234678-HpCDD	1.16e5	1.00e5	2.16e5	39.63	1.000	1.16	NO	9.927	1.219	1.228	7.21	0.179	1.22e6	7696	159.1	1.12e6	6203	180.3	bd	bb
7	OCDD	1.44e5	1.56e5	3.00e5	43.64	1.000	0.93	NO	18.896	1.046	1.107	6.02	0.356	1.24e6	5748	215.0	1.40e6	9265	151.3	bd	bd
8	2378-TCDF	5.68e4	6.69e4	1.24e5	29.91	1.000	0.85	NO	1.995	1.349	1.352	4.83	0.0549	5.45e5	3188	171.1	6.16e5	6665	92.4	bd	bb
9	12378-PeCDF	3.55e5	2.13e5	5.67e5	33.07	1.000	1.67	NO	9.861	1.256	1.274	6.94	0.0664	6.60e6	9243	714.1	4.00e6	13388	298.8	bb	bd
10	23478-PeCDF	3.57e5	2.19e5	5.76e5	33.68	1.000	1.63	NO	9.607	1.339	1.394	4.15	0.0616	6.88e6	9243	744.6	4.07e6	13388	304.4	bd	bb
11	123478-HxCDF	2.19e5	1.70e5	3.90e5	35.69	1.000	1.29	NO	9.809	1.391	1.418	4.11	0.0944	3.77e6	10066	375.0	2.92e6	11324	257.9	bd	bd
12	123678-HxCDF	2.62e5	1.96e5	4.57e5	35.78	1.000	1.34	NO	9.599	1.323	1.378	4.15	0.0891	4.14e6	10066	411.1	3.18e6	11324	281.1	db	db
13	234678-HxCDF	2.21e5	1.67e5	3.88e5	36.25	1.000	1.33	NO	9.457	1.345	1.422	5.96	0.102	3.67e6	10066	364.3	2.73e6	11324	241.3	bb	bb
14	123789-HxCDF	1.88e5	1.42e5	3.31e5	37.00	1.000	1.32	NO	9.671	1.259	1.302	5.43	0.151	2.34e6	10066	232.8	1.86e6	11324	164.0	bb	bb
15	1234678-HpCDF	2.28e5	2.20e5	4.48e5	38.42	1.000	1.04	NO	9.626	1.332	1.384	4.56	0.143	2.99e6	14106	211.8	2.89e6	12946	223.3	bb	bd
16	1234789-HpCDF	1.82e5	1.70e5	3.52e5	40.27	1.000	1.07	NO	9.862	1.345	1.364	8.52	0.230	1.92e6	14106	135.9	1.78e6	12946	137.3	bd	bd
17	OCDF	2.25e5	2.23e5	4.49e5	43.94	1.007	1.01	NO	17.840	1.563	1.752	16.82	0.287	1.86e6	8013	232.2	1.97e6	11162	176.7	bd	bd
18	13C-2378-TCDD	1.35e6	1.67e6	3.03e6	30.81	1.023	0.81	NO	100.033	1.139	1.139	2.81	0.171	1.42e7	9073	1569.7	1.77e7	6809	2598.9	bd	bb
19	13C-12378-PeCDD	1.34e6	8.02e5	2.14e6	33.85	1.124	1.67	NO	99.127	0.806	0.813	6.11	0.316	2.29e7	11132	2061.6	1.45e7	9870	1473.8	bd	bb
20	13C-123478-HxCDD	1.02e6	7.91e5	1.81e6	36.36	0.991	1.28	NO	99.444	0.843	0.847	3.44	0.213	1.65e7	8647	1907.5	1.29e7	8462	1518.8	bd	bd
21	13C-123678-HxCDD	1.22e6	9.67e5	2.19e6	36.46	0.994	1.26	NO	99.503	1.022	1.027	0.98	0.175	1.81e7	8647	2090.5	1.45e7	8462	1716.2	dd	dd
22	13C-1234678-HpCDD	9.25e5	8.49e5	1.77e6	39.61	1.080	1.09	NO	103.341	0.827	0.800	2.20	0.388	9.91e6	17042	581.5	9.00e6	12460	722.4	bd	bd
23	13C-OCDD	1.36e6	1.51e6	2.87e6	43.63	1.189	0.90	NO	205.248	0.670	0.653	4.31	0.411	1.08e7	13952	777.1	1.18e7	11501	1030.3	bd	bd
24	13C-2378-TCDF	2.05e6	2.53e6	4.59e6	29.90	0.993	0.81	NO	99.536	1.726	1.734	1.52	0.122	1.78e7	8314	2143.3	2.22e7	9017	2458.6	bb	bb
25	13C-12378-PeCDF	2.81e6	1.71e6	4.52e6	33.06	1.098	1.65	NO	98.926	1.700	1.719	3.99	0.392	4.99e7	31531	1582.9	3.04e7	23543	1291.1	bb	db
26	13C-23478-PeCDF	2.73e6	1.58e6	4.30e6	33.67	1.118	1.73	NO	100.021	1.619	1.619	7.01	0.417	5.01e7	31531	1587.7	2.99e7	23543	1271.2	bb	bb
27	13C-123478-HxCDF	9.85e5	1.82e6	2.80e6	35.68	0.973	0.54	NO	101.189	1.307	1.291	3.13	0.327	1.69e7	16190	1041.4	3.09e7	23881	1292.2	bd	bd
28	13C-123678-HxCDF	1.24e6	2.22e6	3.46e6	35.77	0.975	0.56	NO	100.909	1.613	1.598	1.73	0.264	1.87e7	16190	1154.2	3.49e7	23881	1460.1	db	db
29	13C-234678-HxCDF	9.95e5	1.89e6	2.88e6	36.25	0.988	0.53	NO	100.545	1.345	1.338	1.29	0.315	1.53e7	16190	946.4	2.82e7	23881	1182.9	bb	bd
30	13C-123789-HxCDF	9.11e5	1.71e6	2.63e6	36.99	1.008	0.53	NO	102.971	1.225	1.190	2.59	0.355	1.13e7	16190	699.3	2.12e7	23881	888.4	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:48:57 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.05e6	2.31e6	3.36e6	38.41	1.047	0.46	NO	102.001	1.568	1.537	2.02	0.283	1.28e7	17646	727.7	2.81e7	23644	1188.4	bb	bd
32	13C-1234789-HpCDF	8.22e5	1.79e6	2.62e6	40.25	1.097	0.46	NO	101.868	1.221	1.198	2.23	0.363	8.13e6	17646	460.8	1.75e7	23644	739.2	bd	bb
33	13C-1234-TCDD	1.19e6	1.47e6	2.66e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.195	1.09e7	9073	1204.6	1.36e7	6809	1998.6	bb	bb
34	13C-123789-HxCDD	1.19e6	9.54e5	2.14e6	36.68	0.000	1.25	NO	100.000	1.000	1.000	0.00	0.180	1.58e7	8647	1828.1	1.25e7	8462	1473.3	dd	dd
35	37Cl-2378-TCDD	5.64e4		5.64e4	30.83	1.024			1.888	1.061	1.124	6.42	0.0231	5.85e5	2121	276.0				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

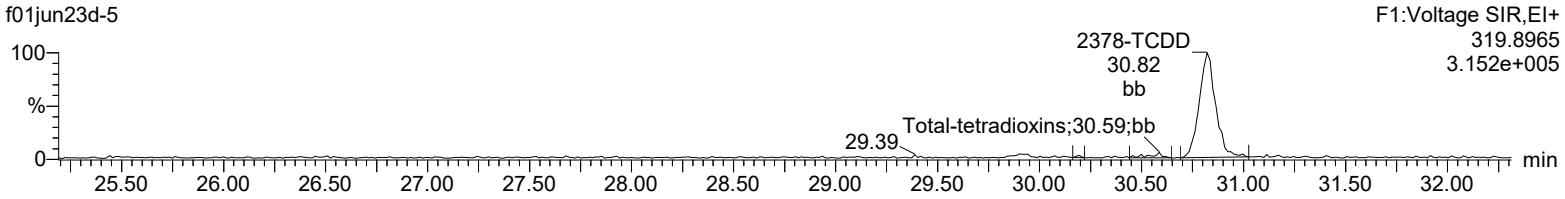
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

06/06/2023

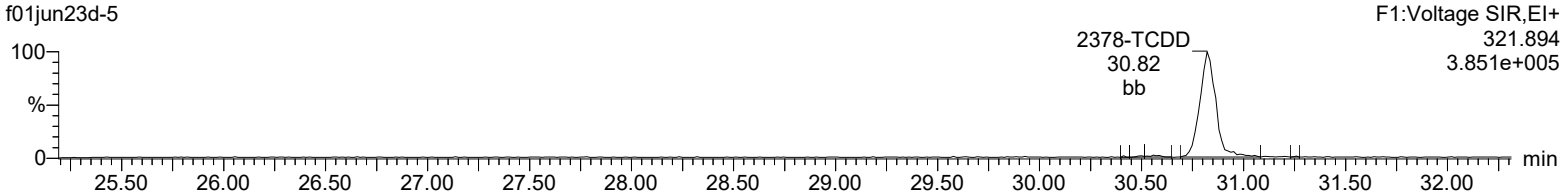
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

Total-tetradioxins



Total-tetradioxins



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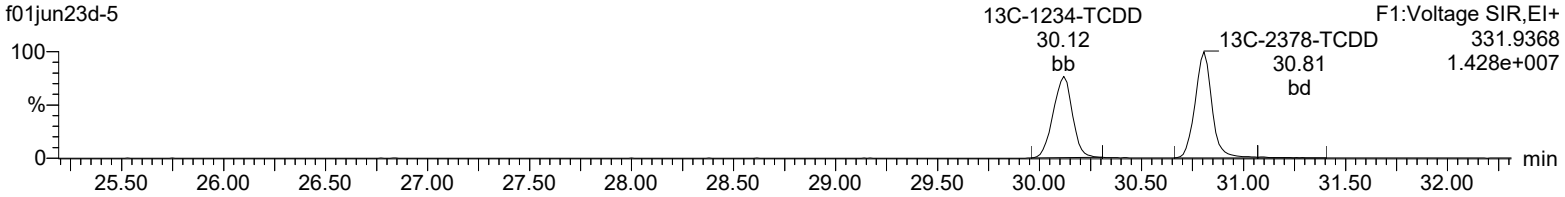

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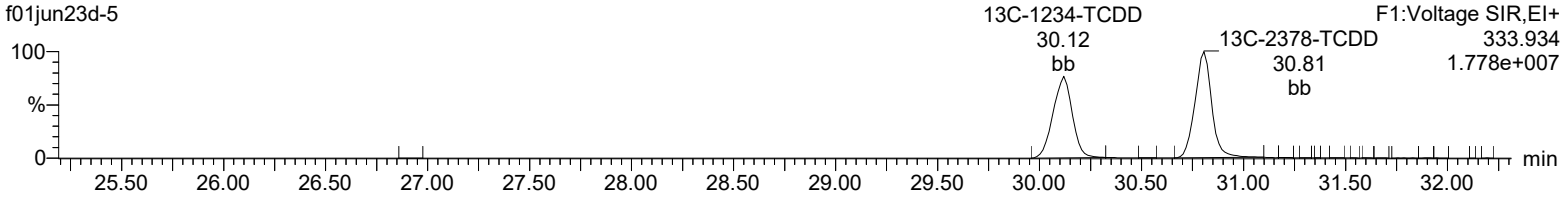

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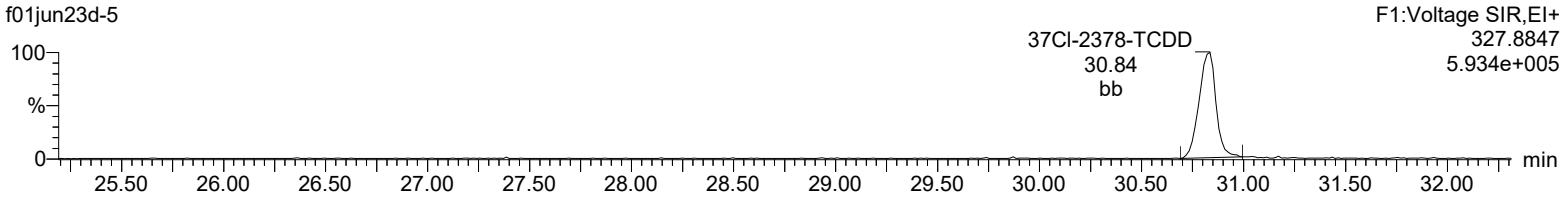
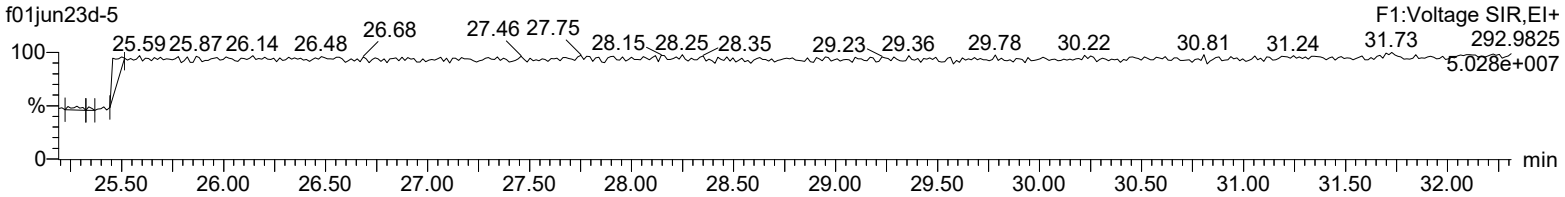


Lock Mass F1



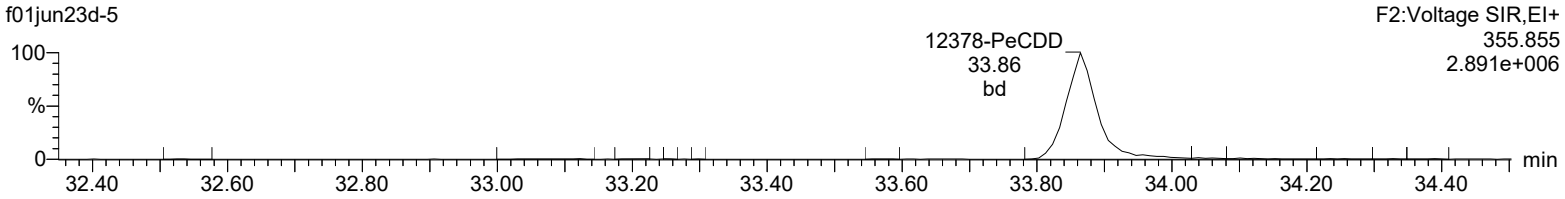
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

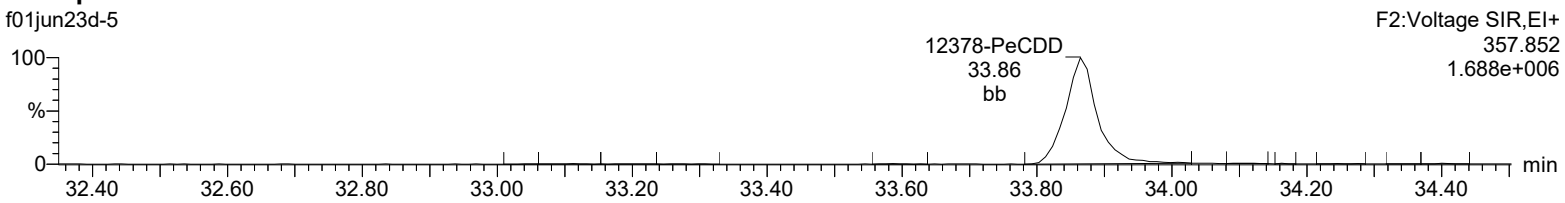
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

Total-pentadioxins



Total-pentadioxins



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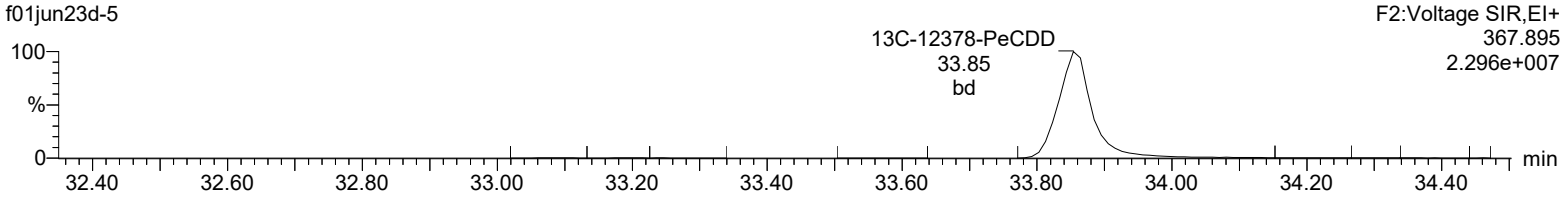

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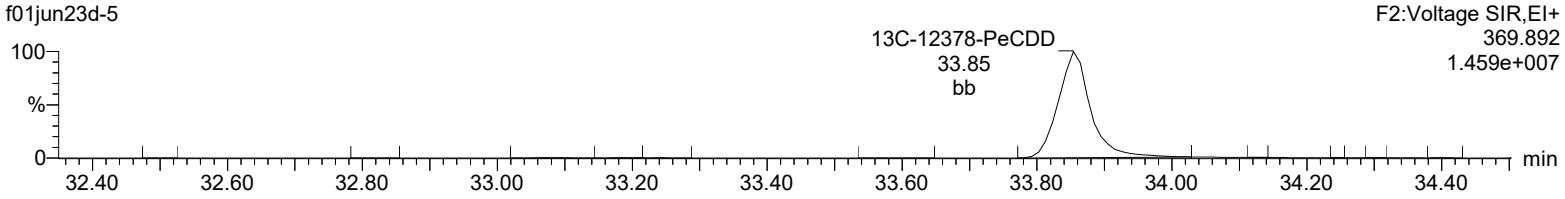
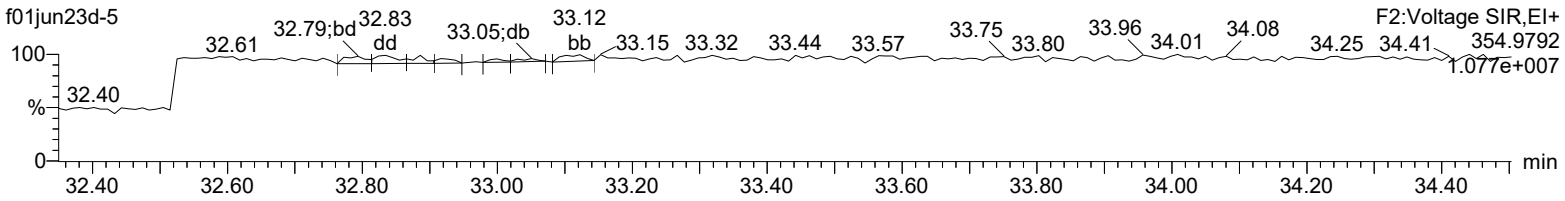


Lock Mass F2



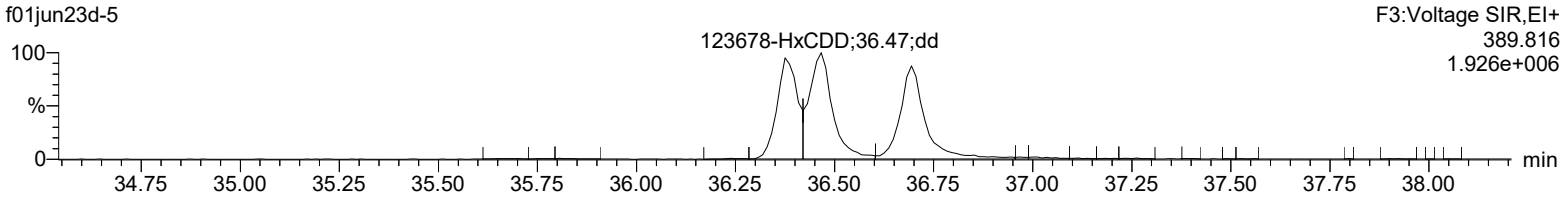
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

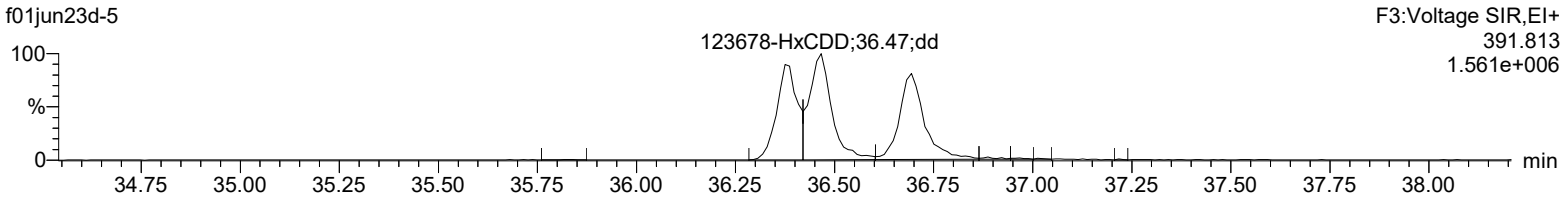
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

Total-hexadioxins



Total-hexadioxins



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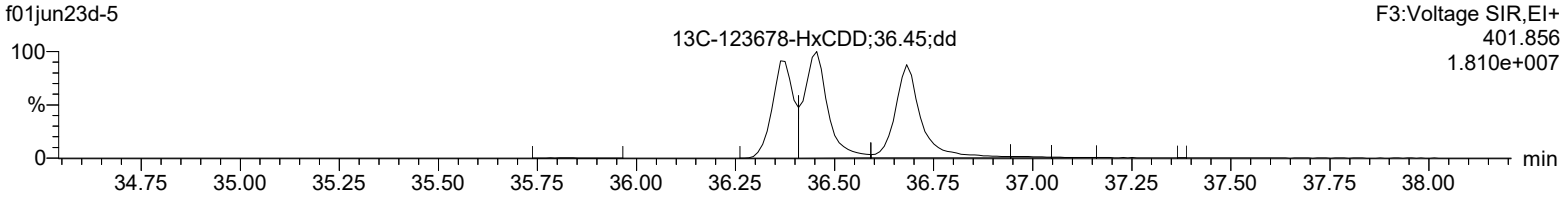

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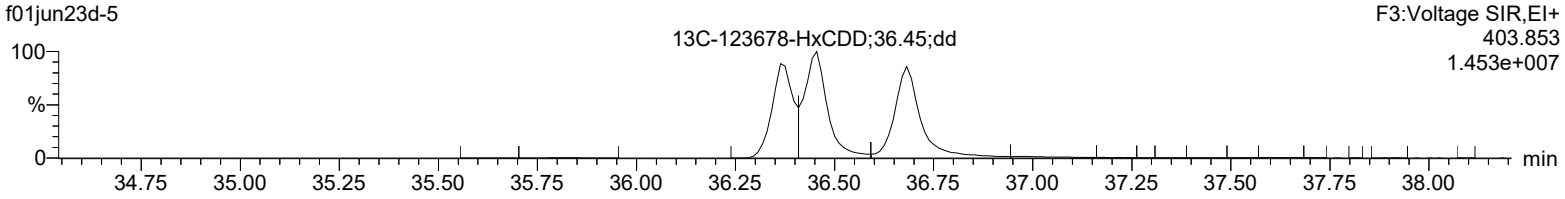
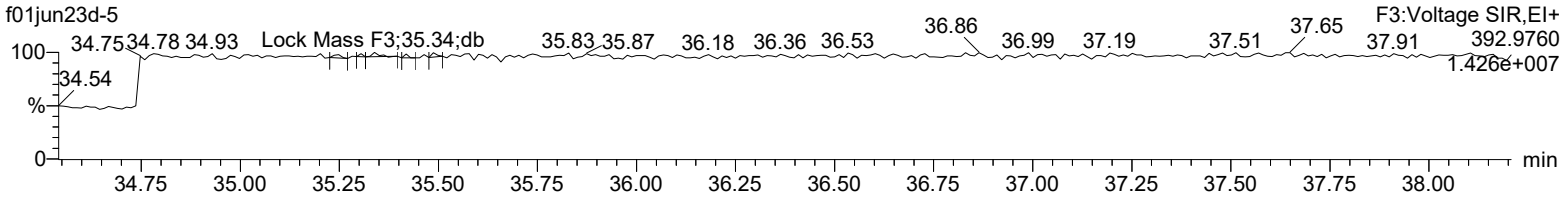


Lock Mass F3



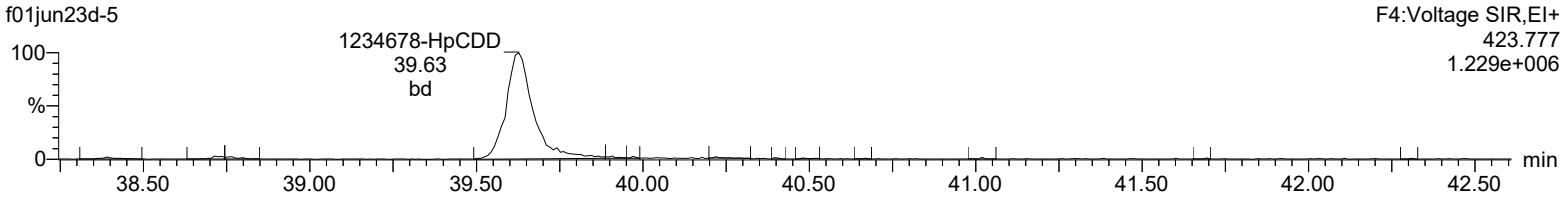
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

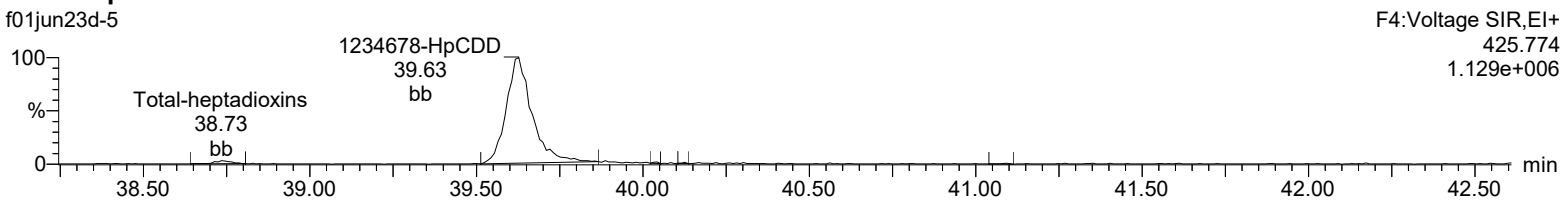
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

Total-heptadioxins



Total-heptadioxins



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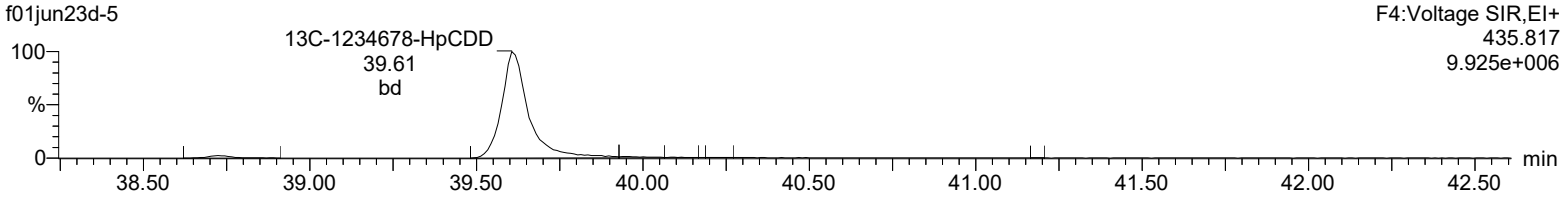

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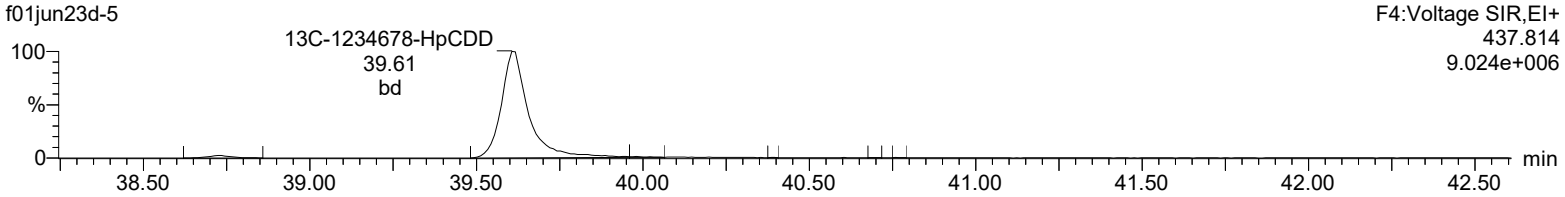
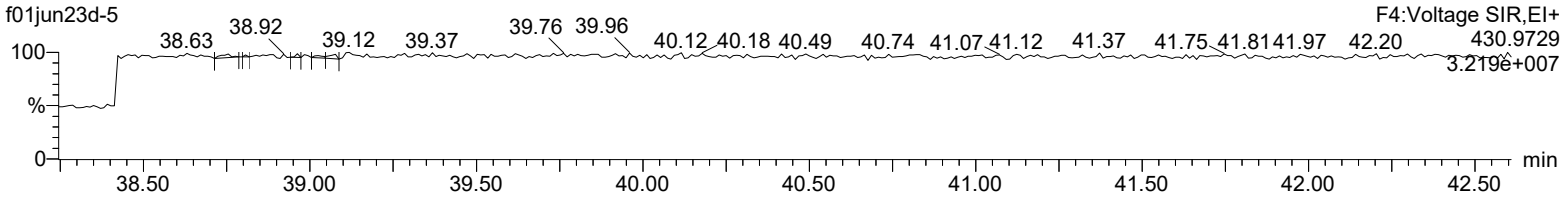


Lock Mass F4



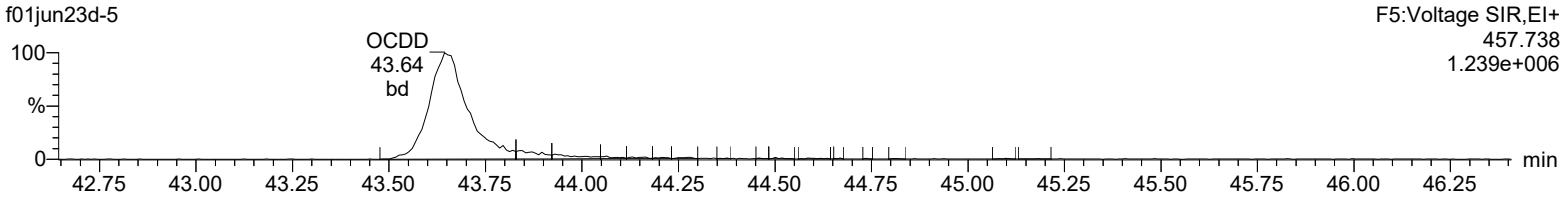
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

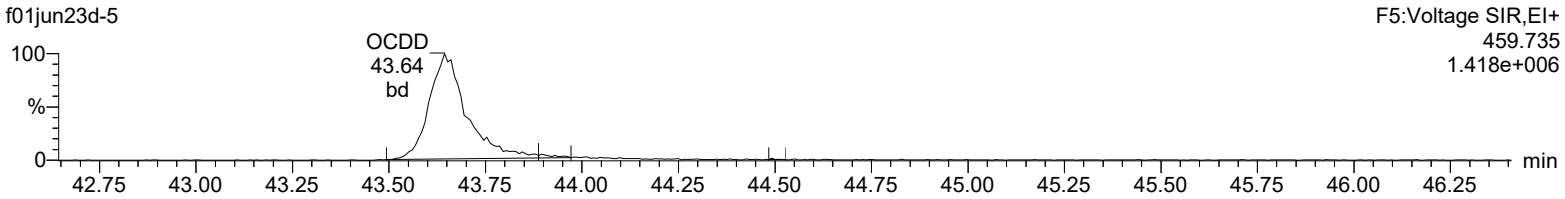
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

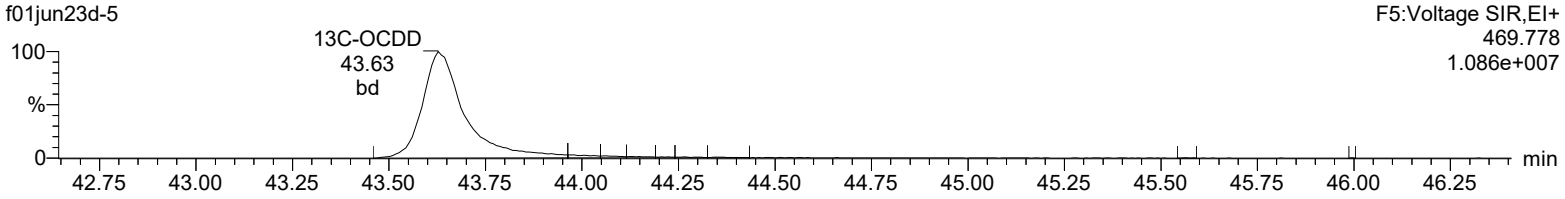
OCDD



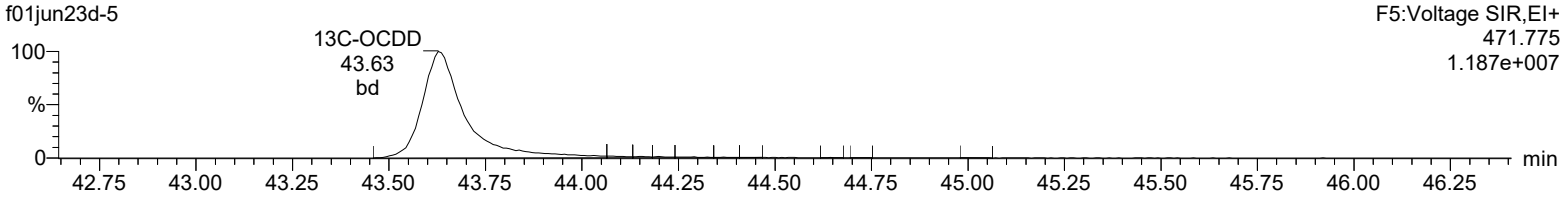
OCDD



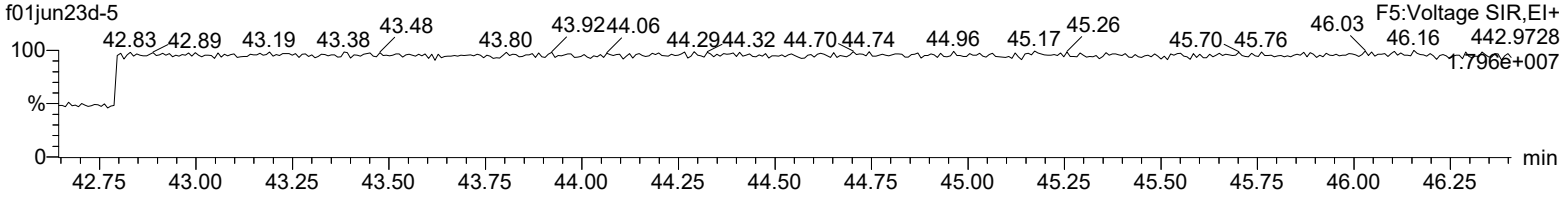
13C-OCDD



13C-OCDD



Lock Mass F5



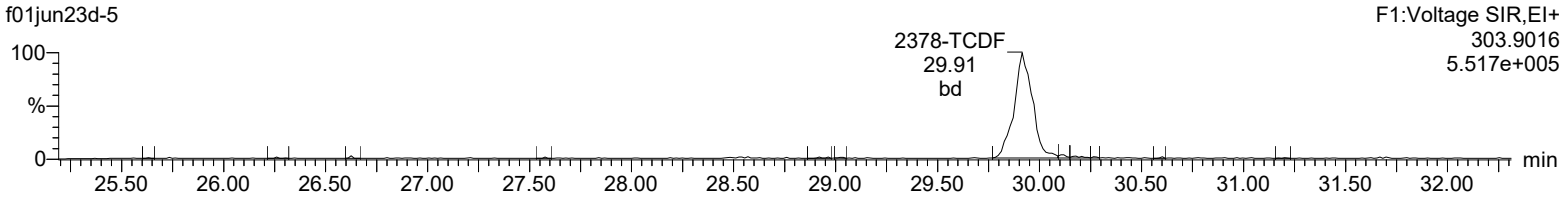
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

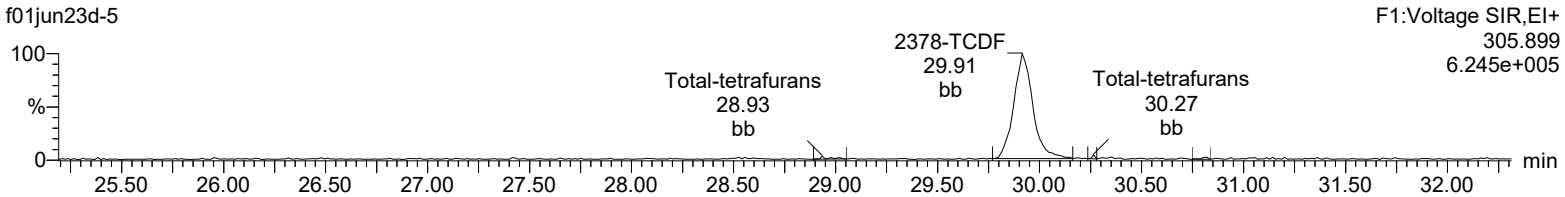
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

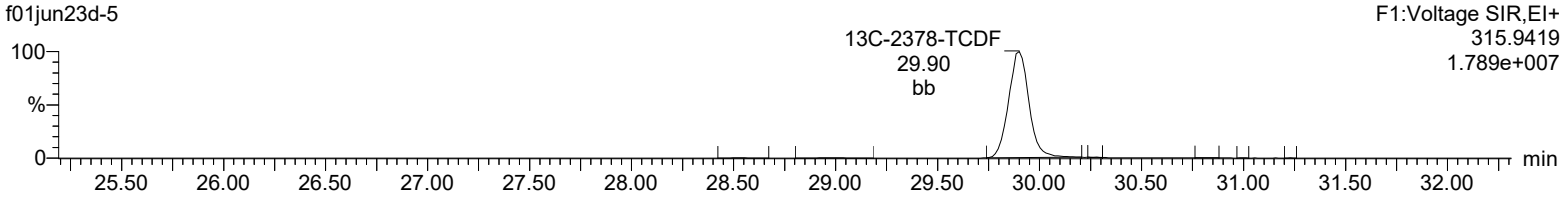
Total-tetrafurans



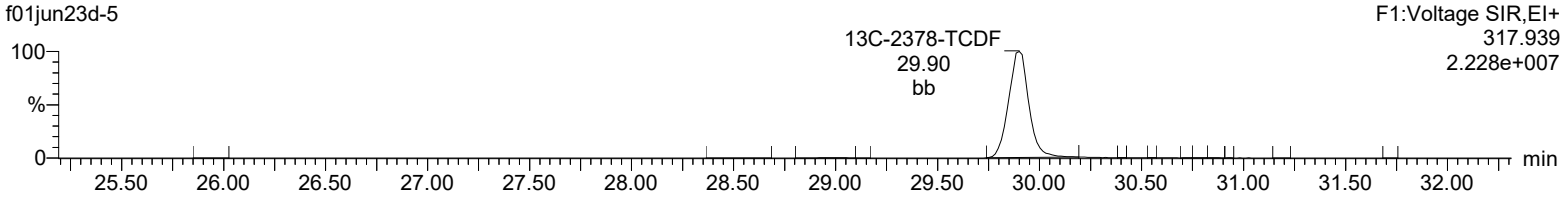
Total-tetrafurans



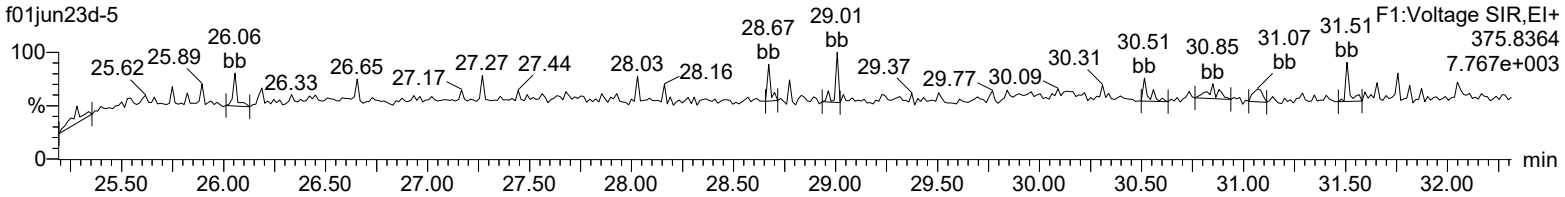
13C-2378-TCDF



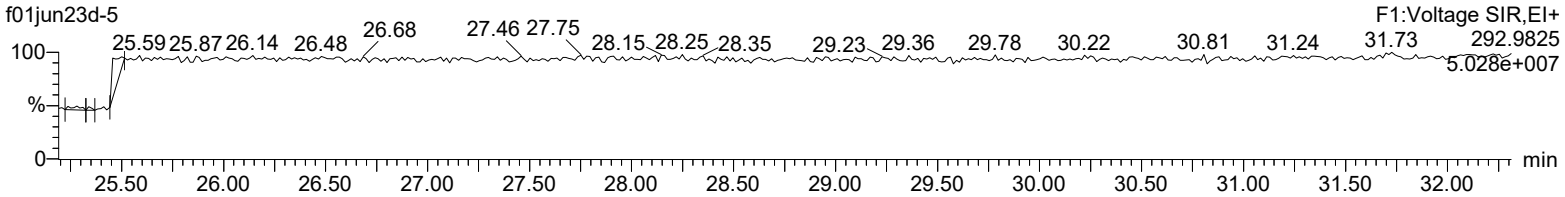
13C-2378-TCDF



HxDPE



Lock Mass F1



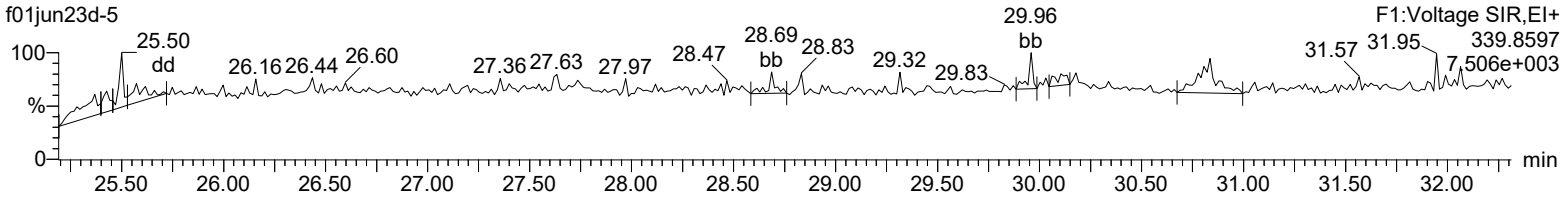
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

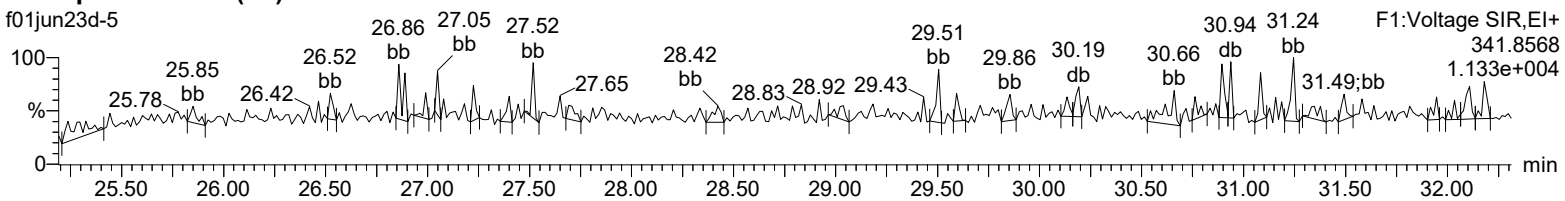
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

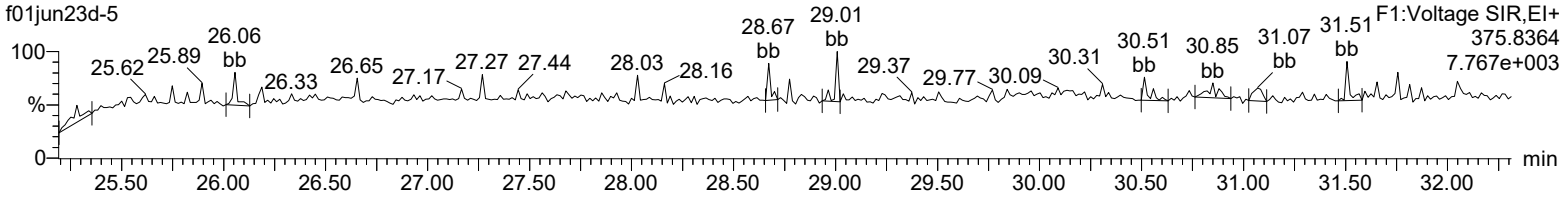
Total-pentafurans (F1)



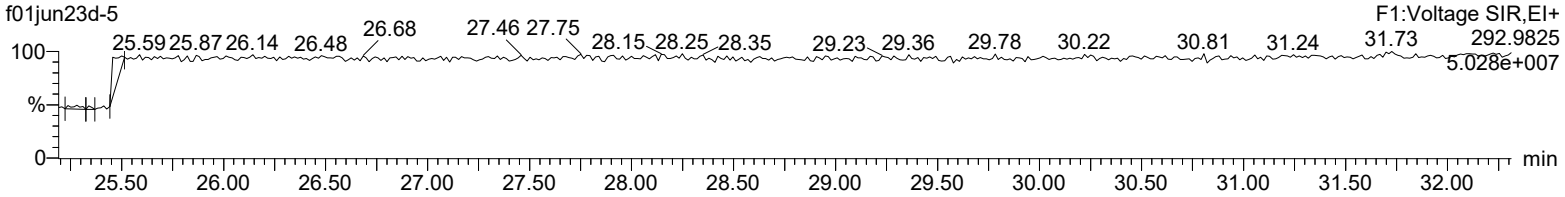
Total-pentafurans (F1)



HxDPE



Lock Mass F1



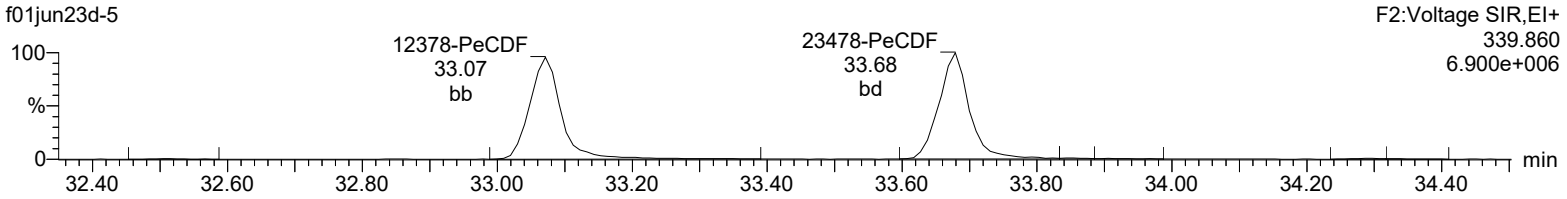
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

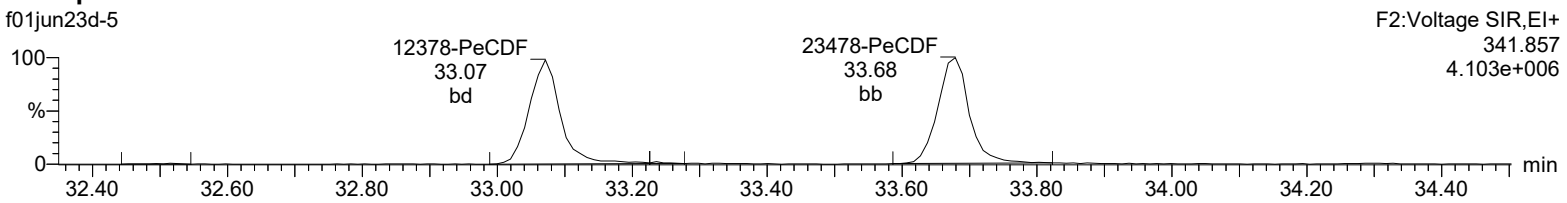
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

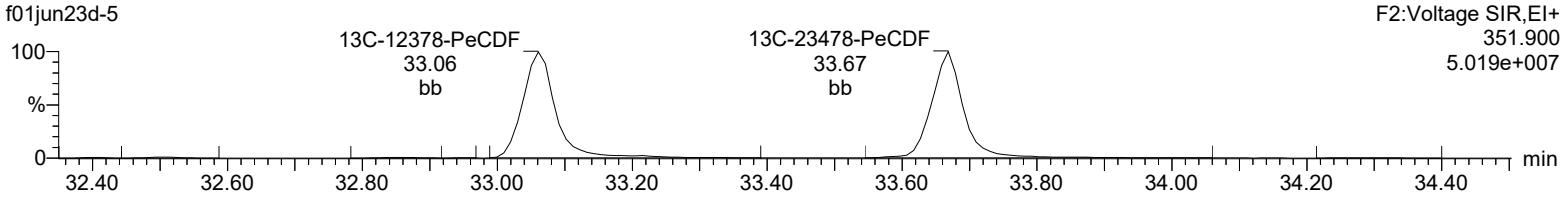
Total-pentafurans



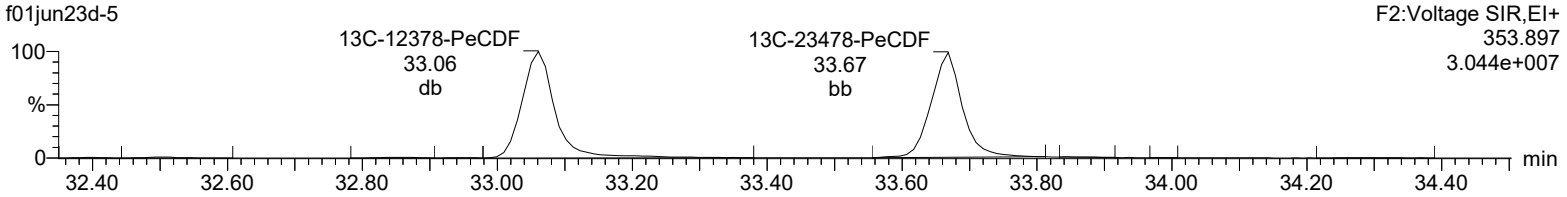
Total-pentafurans



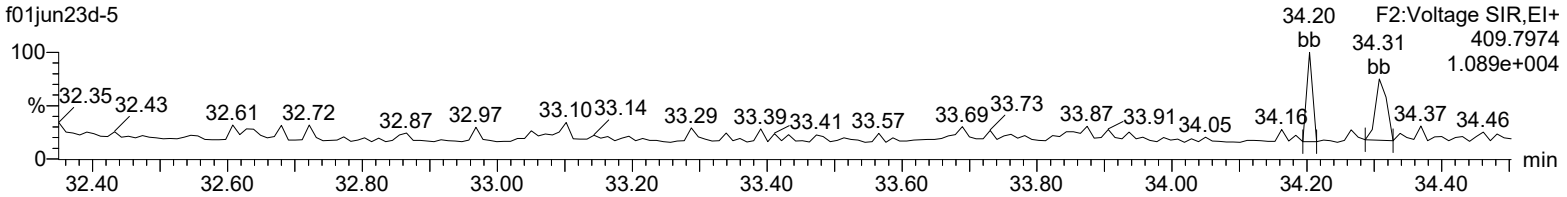
13C-12378-PeCDF



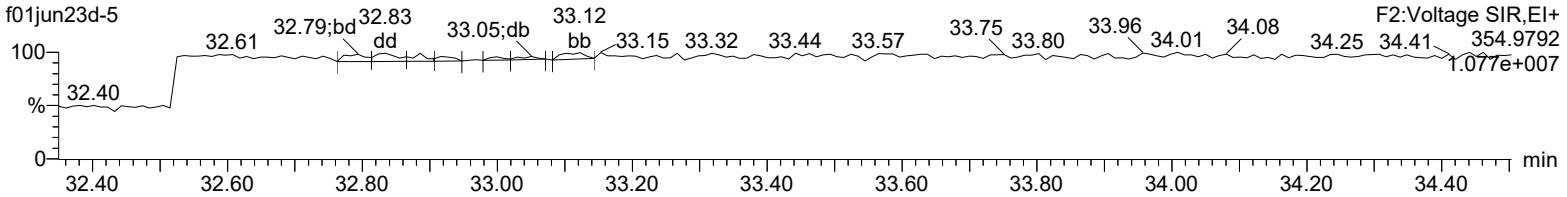
13C-12378-PeCDF



HpDPE



Lock Mass F2



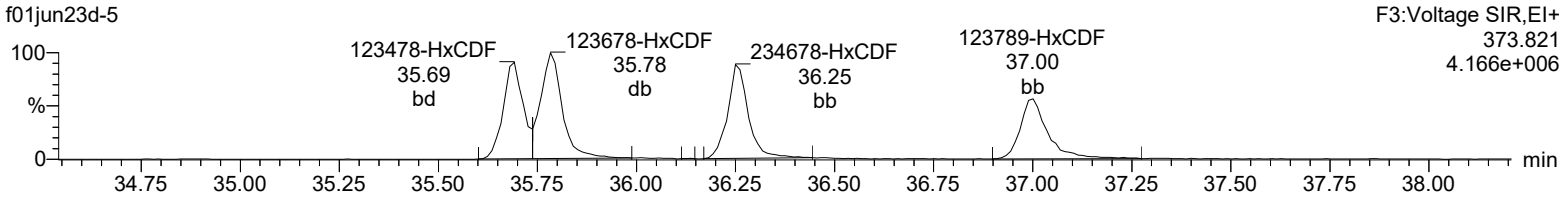
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

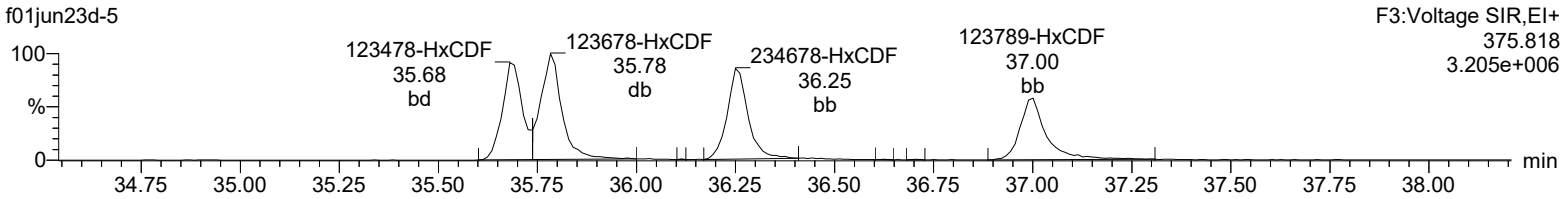
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

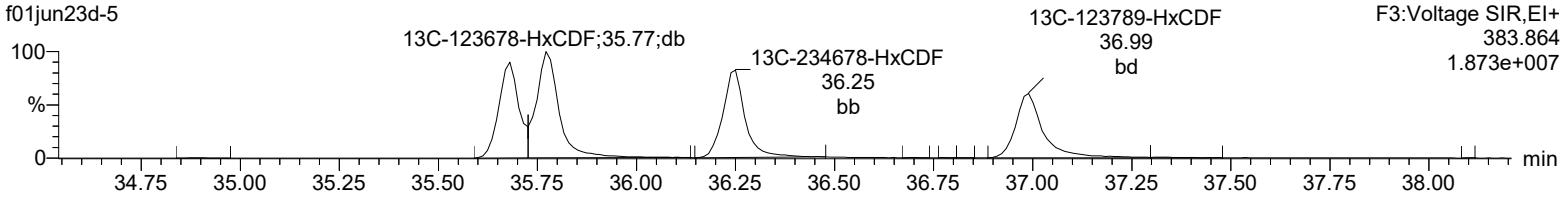
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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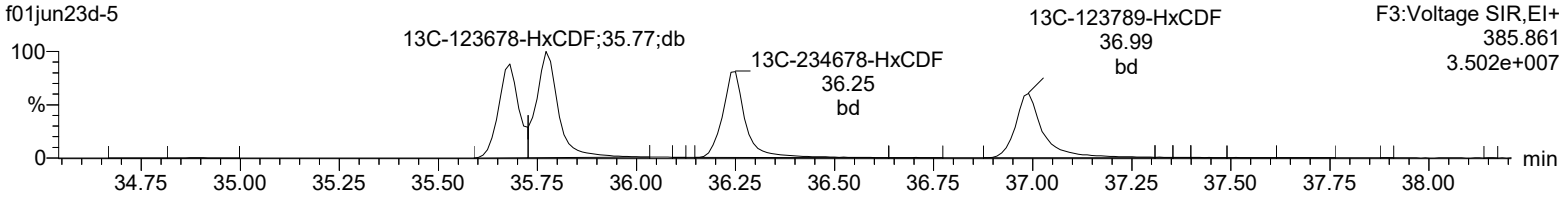
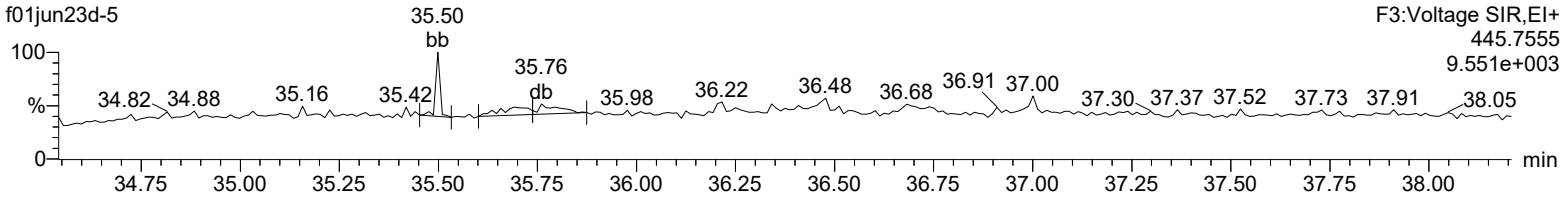
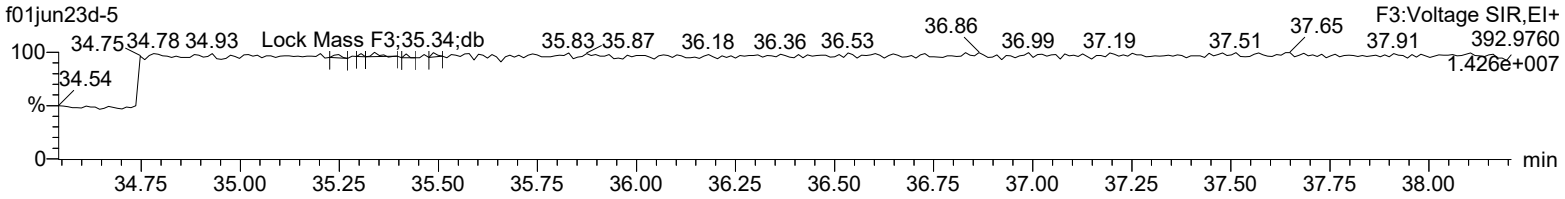


OcDPE



Lock Mass F3



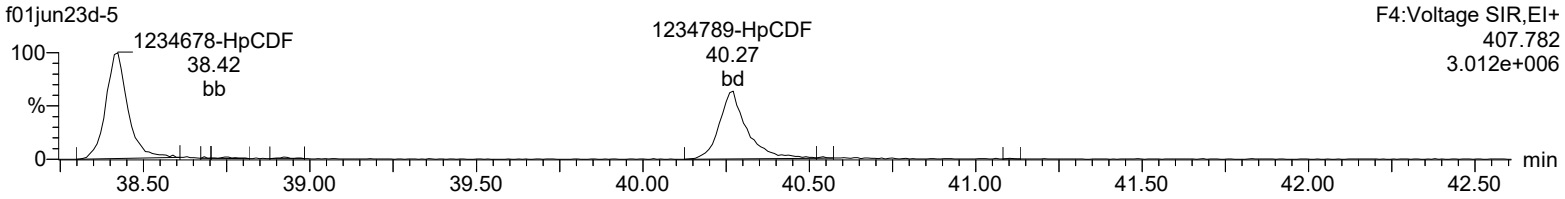
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

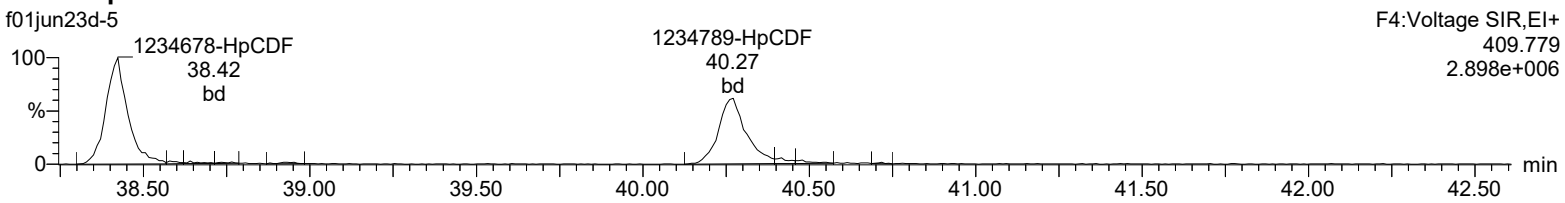
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

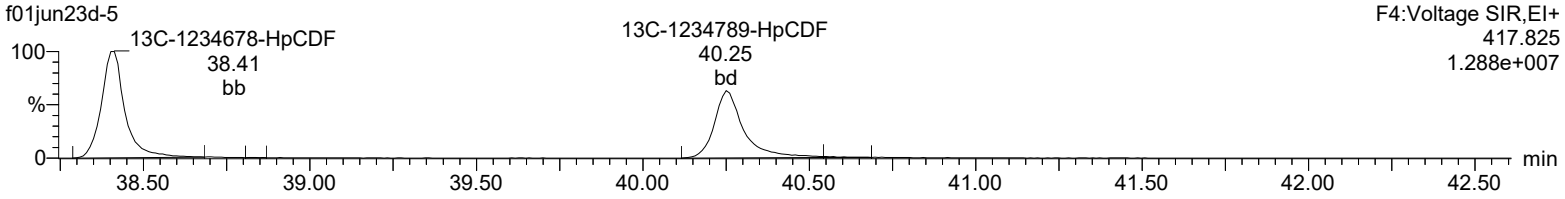
Total-heptafurans



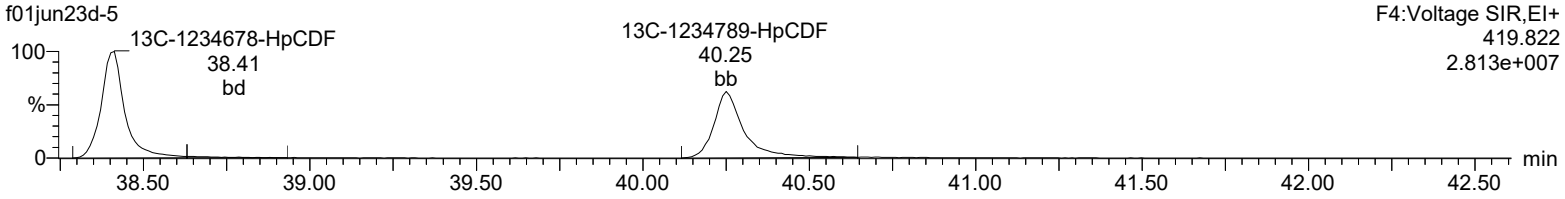
Total-heptafurans



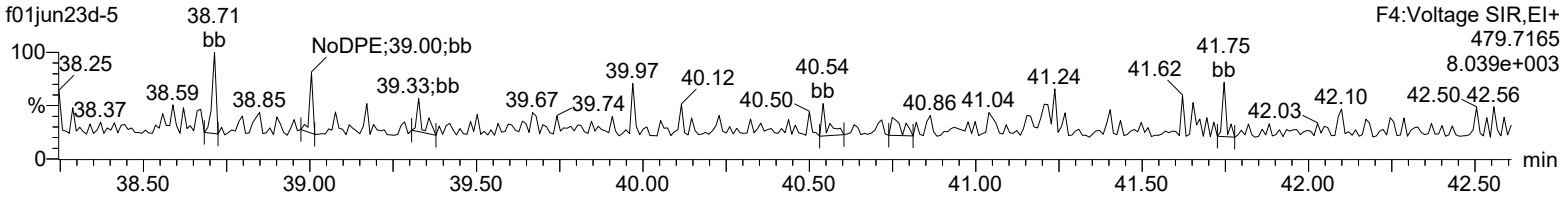
13C-1234678-HpCDF



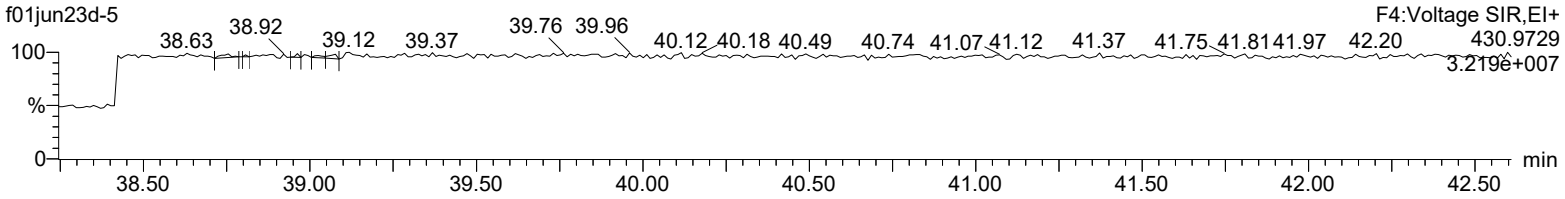
13C-1234678-HpCDF



NoDPE



Lock Mass F4



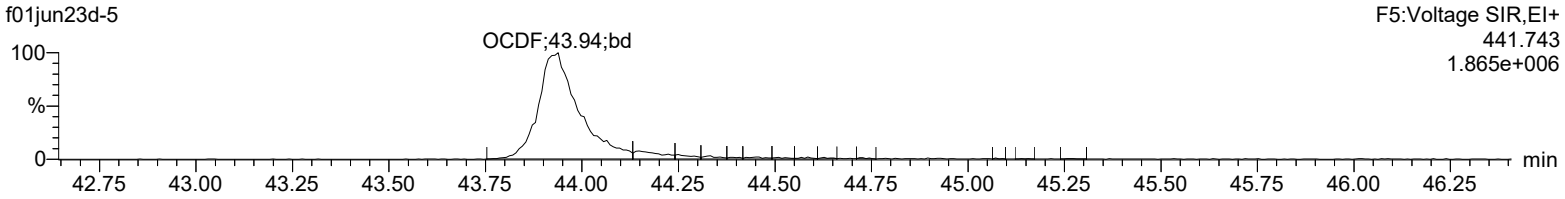
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

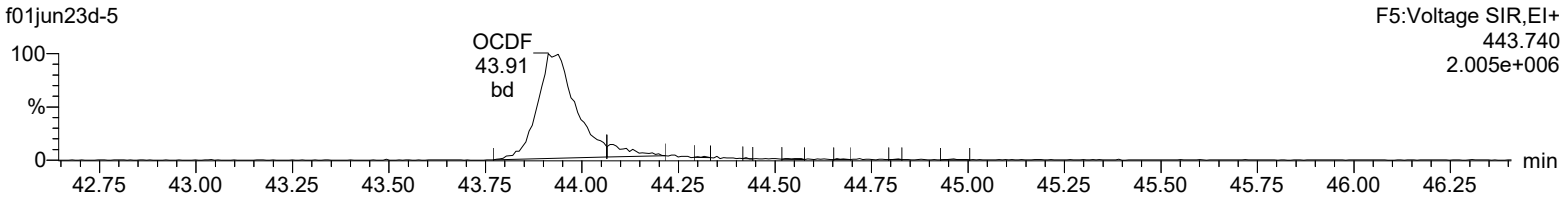
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:17:58 Eastern Daylight Time

Name: f01jun23d-5, Date: 01-Jun-2023, Time: 22:17:23, ID: CS2 UD220929-06 CS254

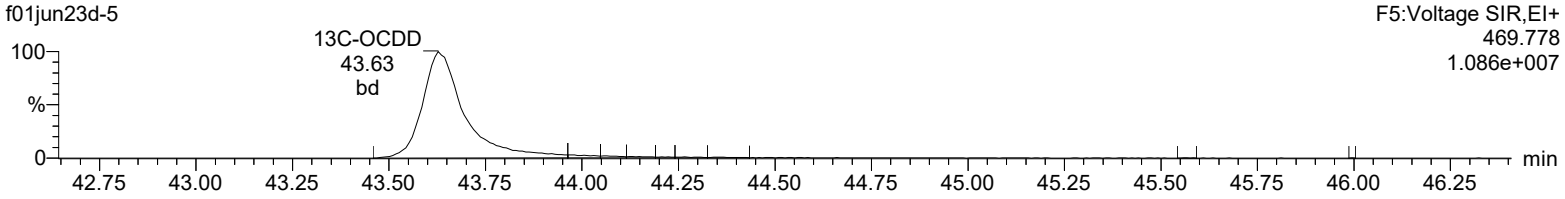
OCDF



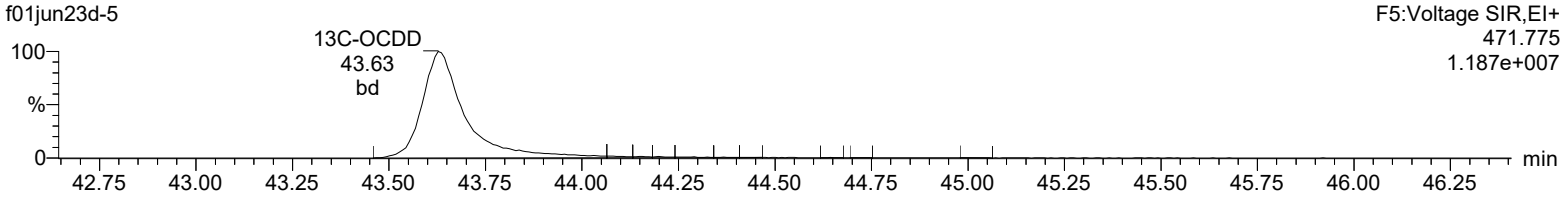
OCDF



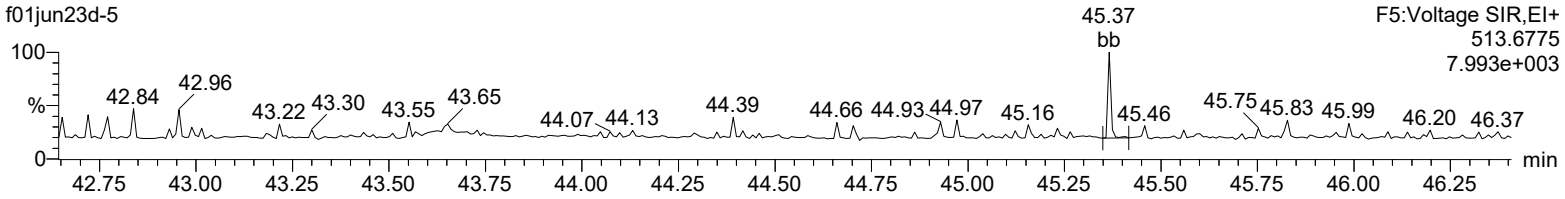
13C-OCDD



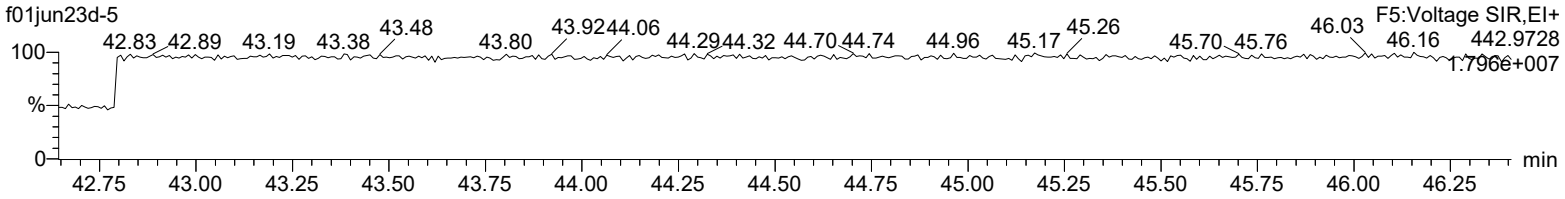
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:11 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	1.25e5	1.57e5	2.82e5	30.82	1.000	0.79	NO	10.061	1.106	1.100	5.89	0.0753	1.31e6	4107	317.8	1.64e6	3339	492.5	bd	dd
2	12378-PeCDD	6.60e5	4.05e5	1.06e6	33.86	1.000	1.63	NO	52.078	1.213	1.164	4.32	0.139	1.12e7	12670	886.6	7.03e6	4064	1729.7	bb	bd
3	123478-HxCDD	4.55e5	3.57e5	8.11e5	36.39	1.000	1.27	NO	50.870	1.091	1.073	4.27	0.240	7.68e6	9520	806.8	5.93e6	11453	517.5	bd	bd
4	123678-HxCDD	5.66e5	4.37e5	1.00e6	36.47	1.000	1.29	NO	51.990	1.107	1.064	5.73	0.222	8.25e6	9520	866.8	6.63e6	11453	578.9	dd	dd
5	123789-HxCDD	5.23e5	4.02e5	9.26e5	36.69	1.007	1.30	NO	52.629	1.122	1.066	6.89	0.231	6.95e6	9520	730.1	5.39e6	11453	470.3	dd	dd
6	1234678-HpCDD	4.81e5	4.31e5	9.12e5	39.63	1.000	1.12	NO	52.995	1.302	1.228	7.21	0.376	5.41e6	11926	453.7	4.70e6	10953	429.4	bd	bd
7	OCDD	6.39e5	6.78e5	1.32e6	43.65	1.001	0.94	NO	104.237	1.154	1.107	6.02	0.680	5.19e6	11063	469.5	5.50e6	11567	475.8	bd	bd
8	2378-TCDF	2.47e5	2.96e5	5.43e5	29.93	1.001	0.83	NO	10.240	1.385	1.352	4.83	0.0812	2.19e6	5916	370.6	2.60e6	6861	379.5	bd	bb
9	12378-PeCDF	1.54e6	9.15e5	2.45e6	33.07	1.000	1.68	NO	50.304	1.282	1.274	6.94	0.160	2.76e7	28214	977.7	1.68e7	18864	891.9	bb	bb
10	23478-PeCDF	1.55e6	9.76e5	2.52e6	33.68	1.000	1.59	NO	51.604	1.439	1.394	4.15	0.156	2.87e7	28214	1018.1	1.78e7	18864	946.1	bb	bb
11	123478-HxCDF	9.41e5	7.34e5	1.67e6	35.69	1.000	1.28	NO	51.274	1.454	1.418	4.11	0.205	1.66e7	19775	837.7	1.28e7	19524	653.9	bd	bd
12	123678-HxCDF	1.13e6	8.87e5	2.01e6	35.78	1.000	1.27	NO	51.905	1.430	1.378	4.15	0.202	1.72e7	19775	871.2	1.31e7	19524	671.8	db	dd
13	234678-HxCDF	9.66e5	7.77e5	1.74e6	36.26	1.000	1.24	NO	51.232	1.457	1.422	5.96	0.228	1.47e7	19775	745.9	1.16e7	19524	592.9	bb	dd
14	123789-HxCDF	8.03e5	6.13e5	1.42e6	37.00	1.000	1.31	NO	50.954	1.327	1.302	5.43	0.343	1.01e7	19775	509.0	7.73e6	19524	395.9	bd	bd
15	1234678-HpCDF	1.03e6	9.37e5	1.97e6	38.41	1.000	1.10	NO	51.441	1.424	1.384	4.56	0.290	1.27e7	22122	573.2	1.17e7	23280	503.6	bd	bb
16	1234789-HpCDF	8.06e5	7.28e5	1.53e6	40.26	1.000	1.11	NO	52.317	1.427	1.364	8.52	0.474	7.91e6	22122	357.5	7.16e6	23280	307.7	bb	bb
17	OCDF	1.03e6	1.13e6	2.16e6	43.93	1.007	0.91	NO	107.799	1.889	1.752	16.82	0.797	8.29e6	20300	408.4	8.93e6	21646	412.5	bd	bd
18	13C-2378-TCDD	1.13e6	1.42e6	2.55e6	30.81	1.023	0.79	NO	99.603	1.134	1.139	2.81	0.191	1.19e7	9284	1284.4	1.49e7	5268	2834.8	bd	bd
19	13C-12378-PeCDD	1.08e6	6.72e5	1.76e6	33.85	1.124	1.61	NO	96.071	0.781	0.813	6.11	0.224	1.91e7	5373	3561.7	1.19e7	6817	1743.4	bb	bb
20	13C-123478-HxCDD	8.35e5	6.52e5	1.49e6	36.38	0.992	1.28	NO	98.754	0.837	0.847	3.44	0.418	1.37e7	14778	928.0	1.06e7	12575	841.8	bd	bd
21	13C-123678-HxCDD	1.02e6	7.97e5	1.81e6	36.46	0.994	1.27	NO	99.296	1.020	1.027	0.98	0.344	1.49e7	14778	1009.6	1.19e7	12575	946.9	dd	dd
22	13C-1234678-HpCDD	7.28e5	6.74e5	1.40e6	39.61	1.080	1.08	NO	98.587	0.789	0.800	2.20	0.412	7.72e6	12301	627.9	7.41e6	13219	560.5	bd	bd
23	13C-OCDD	1.11e6	1.17e6	2.28e6	43.63	1.189	0.95	NO	196.889	0.642	0.653	4.31	0.507	8.77e6	15310	572.9	9.48e6	10268	923.7	bd	bd
24	13C-2378-TCDF	1.76e6	2.16e6	3.92e6	29.90	0.993	0.81	NO	100.638	1.745	1.734	1.52	0.156	1.56e7	10087	1550.7	1.88e7	8071	2333.8	bd	bd
25	13C-12378-PeCDF	2.38e6	1.44e6	3.82e6	33.06	1.098	1.65	NO	98.984	1.701	1.719	3.99	0.493	4.30e7	29482	1458.2	2.64e7	27336	965.6	bd	bb
26	13C-23478-PeCDF	2.19e6	1.32e6	3.51e6	33.67	1.118	1.66	NO	96.395	1.561	1.619	7.01	0.523	4.06e7	29482	1378.2	2.50e7	27336	914.2	bb	bb
27	13C-123478-HxCDF	8.00e5	1.50e6	2.30e6	35.68	0.973	0.53	NO	100.391	1.296	1.291	3.13	0.432	1.41e7	22167	634.9	2.61e7	21002	1244.7	bd	bd
28	13C-123678-HxCDF	9.88e5	1.83e6	2.82e6	35.77	0.975	0.54	NO	99.196	1.585	1.598	1.73	0.349	1.48e7	22167	669.6	2.82e7	21002	1343.9	db	db
29	13C-234678-HxCDF	8.25e5	1.57e6	2.39e6	36.25	0.988	0.53	NO	100.706	1.347	1.338	1.29	0.417	1.26e7	22167	566.7	2.33e7	21002	1108.5	bb	bd
30	13C-123789-HxCDF	7.42e5	1.39e6	2.13e6	36.99	1.008	0.53	NO	100.954	1.201	1.190	2.59	0.469	9.17e6	22167	413.8	1.70e7	21002	809.3	bb	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:11 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.51e5	1.92e6	2.77e6	38.40	1.047	0.44	NO	101.350	1.558	1.537	2.02	0.326	1.04e7	17586	592.7	2.25e7	21106	1065.7	bd	bb
32	13C-1234789-HpCDF	6.58e5	1.49e6	2.15e6	40.25	1.097	0.44	NO	101.026	1.211	1.198	2.23	0.418	6.44e6	17586	366.4	1.39e7	21106	658.1	bd	bb
33	13C-1234-TCDD	1.00e6	1.24e6	2.25e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.217	8.99e6	9284	968.2	1.13e7	5268	2147.3	bb	bb
34	13C-123789-HxCDD	9.99e5	7.78e5	1.78e6	36.68	0.000	1.28	NO	100.000	1.000	1.000	0.00	0.354	1.30e7	14778	882.4	1.04e7	12575	823.5	dd	dd
35	37Cl-2378-TCDD	2.56e5		2.56e5	30.83	1.024			10.125	1.138	1.124	6.42	0.0314	2.65e6	2368	1120.0				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

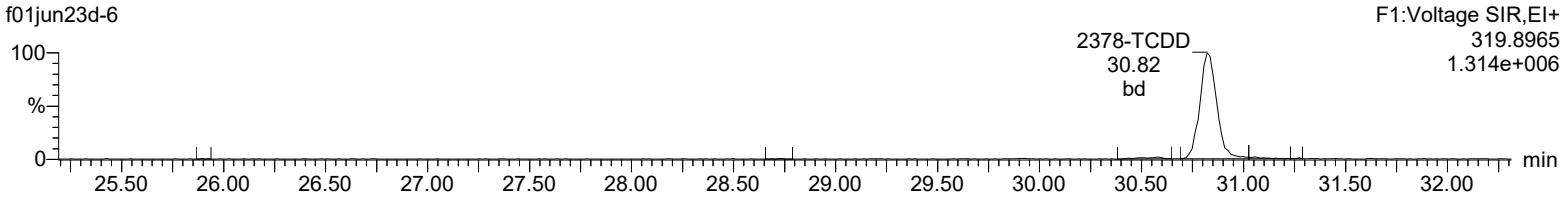
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

06/06/2023

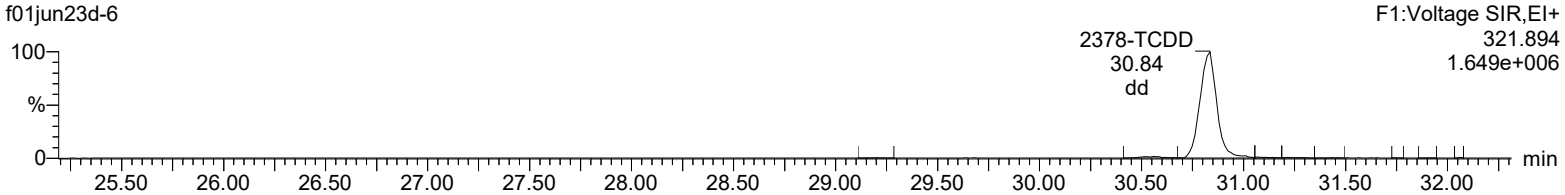
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

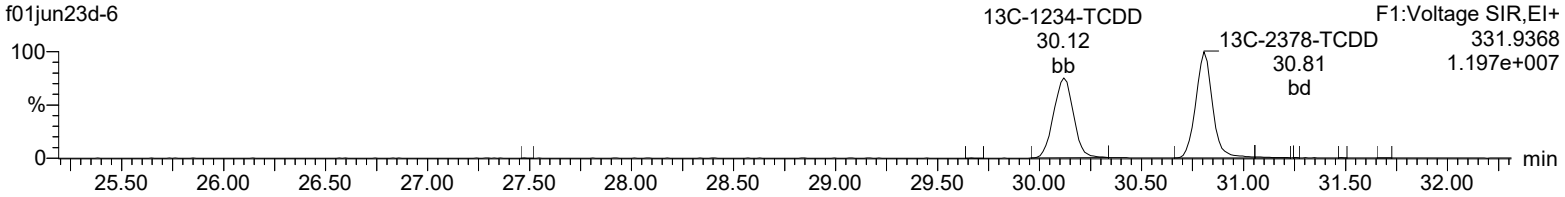
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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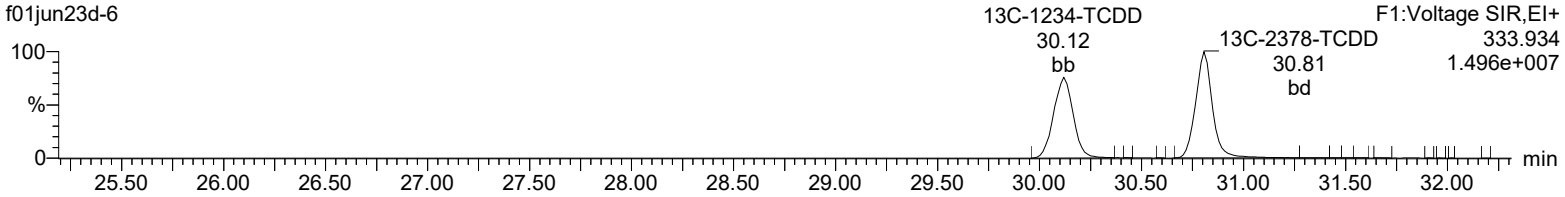
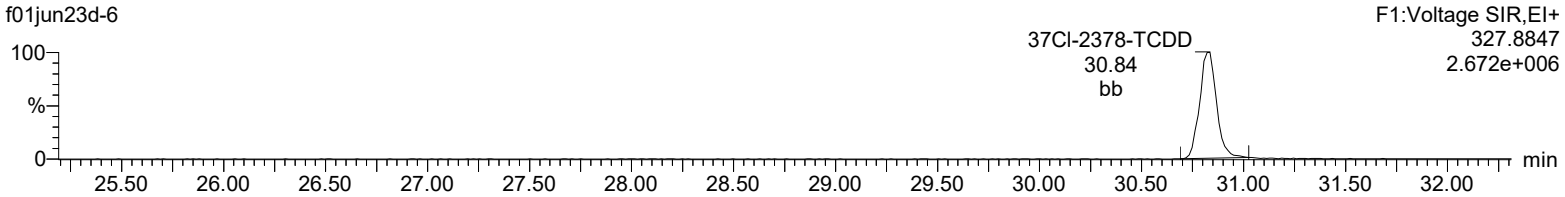
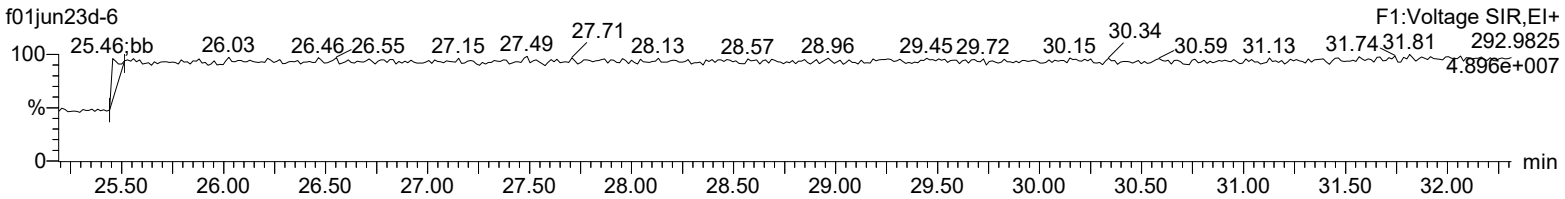


37Cl-2378-TCDD



Lock Mass F1



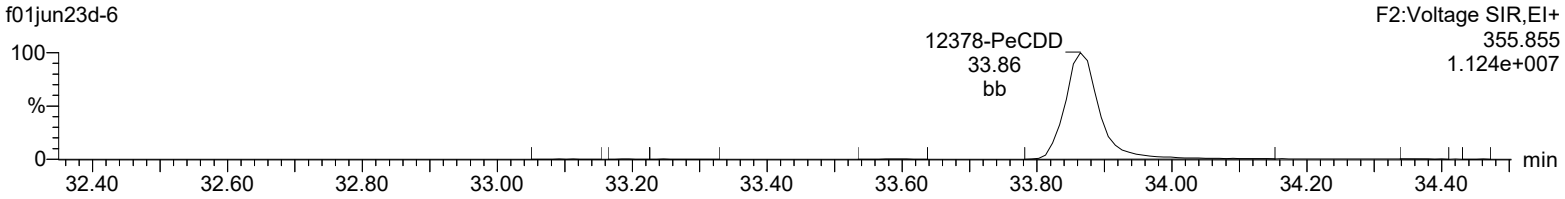
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

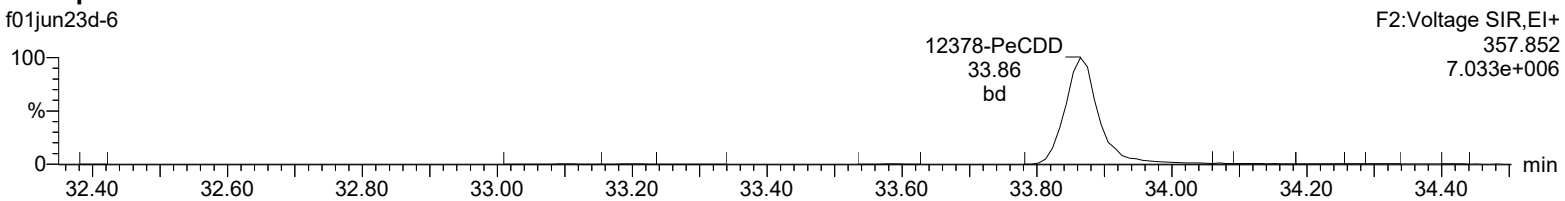
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

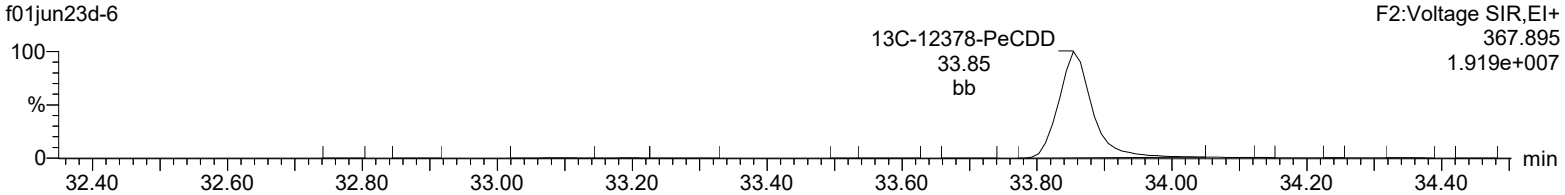
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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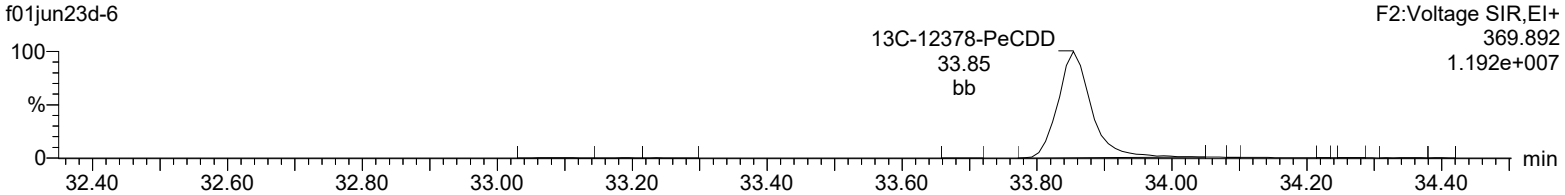
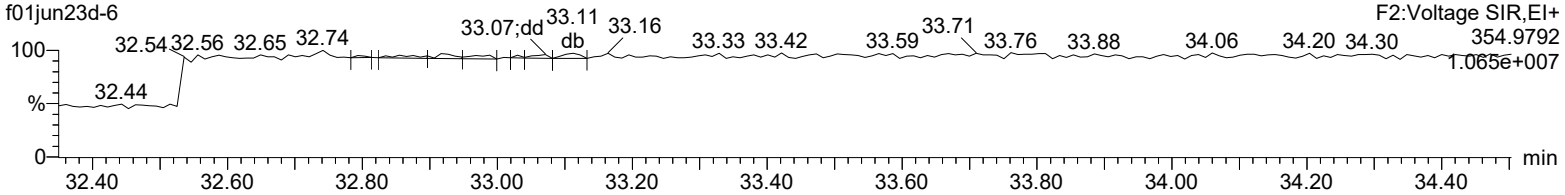


Lock Mass F2



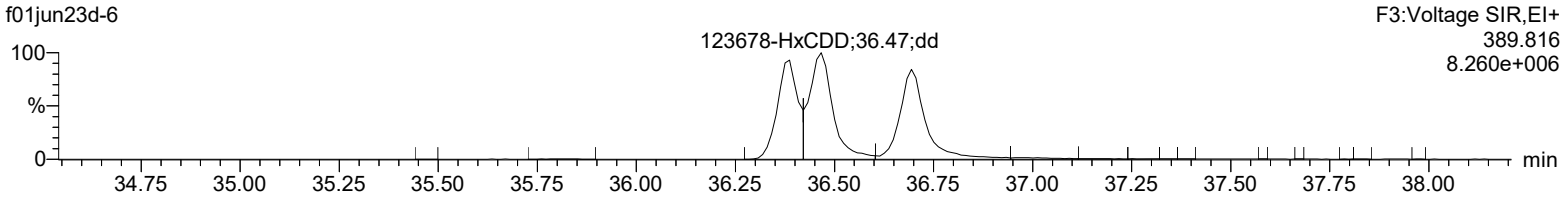
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

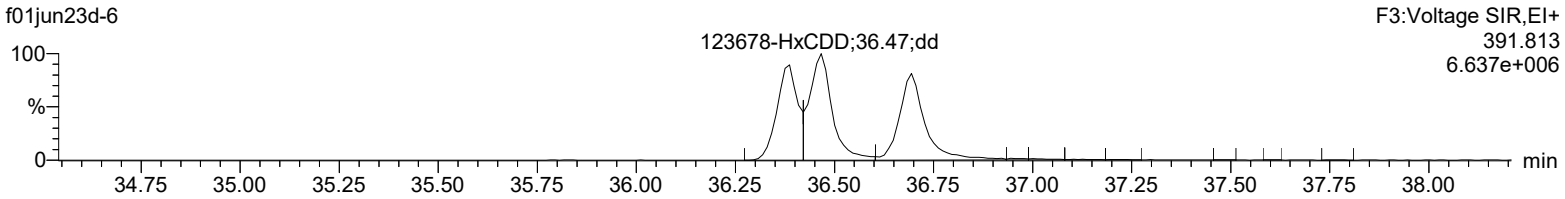
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

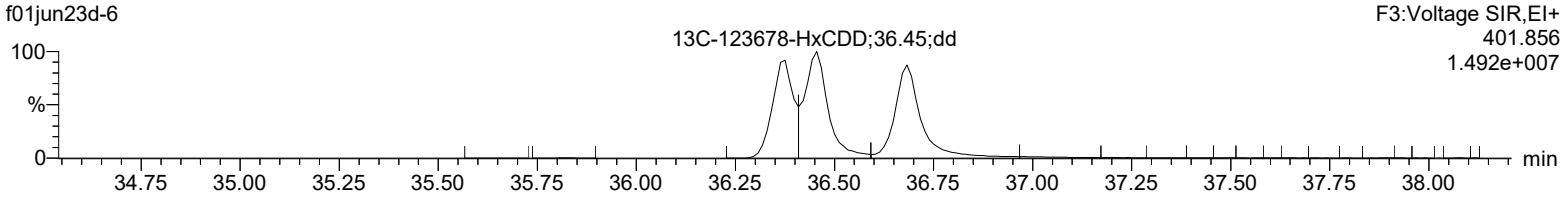
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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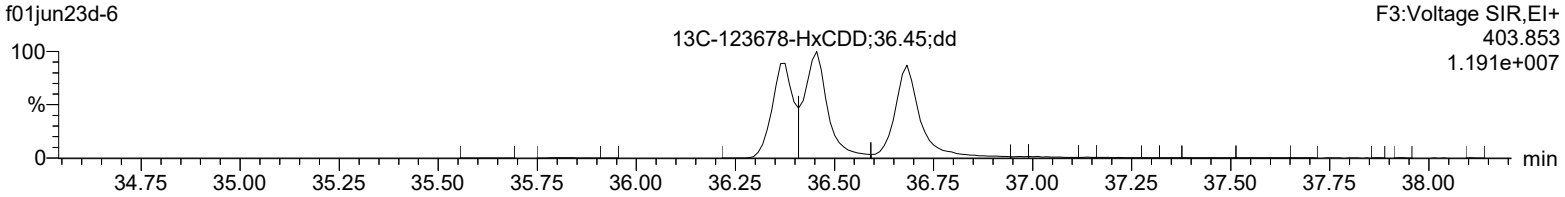
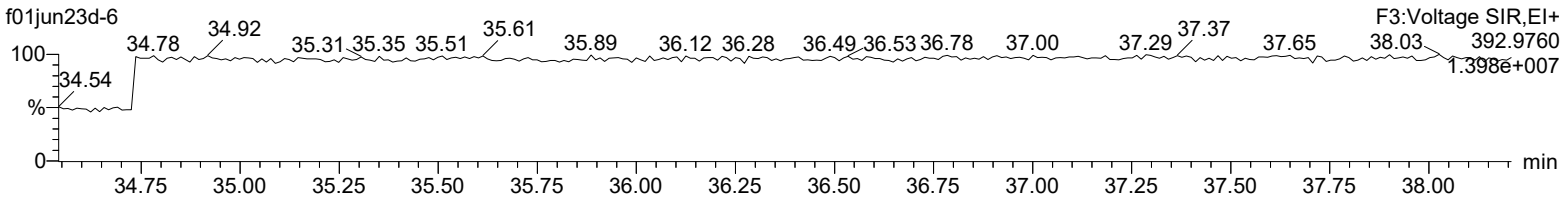


Lock Mass F3



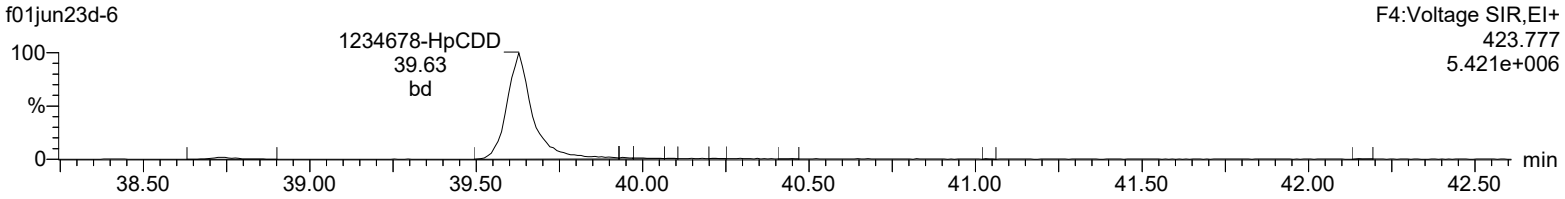
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

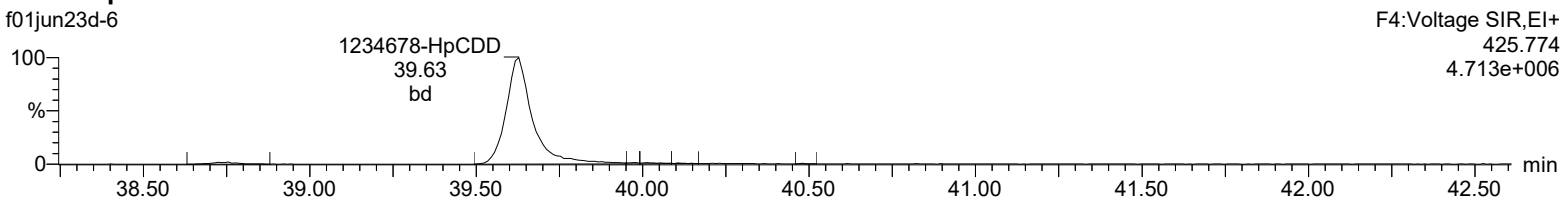
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

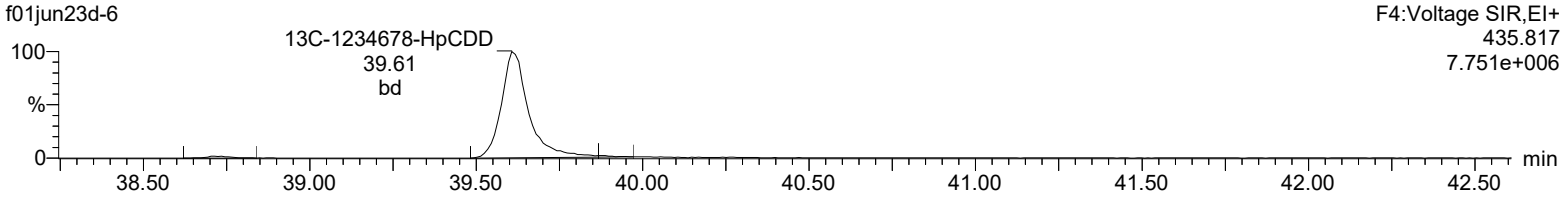
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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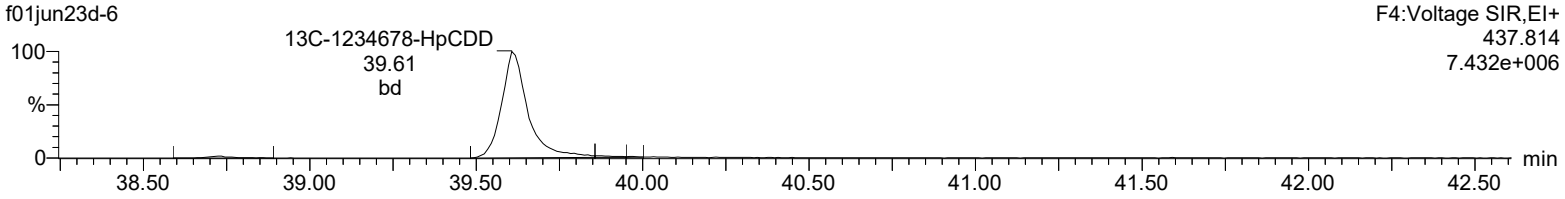
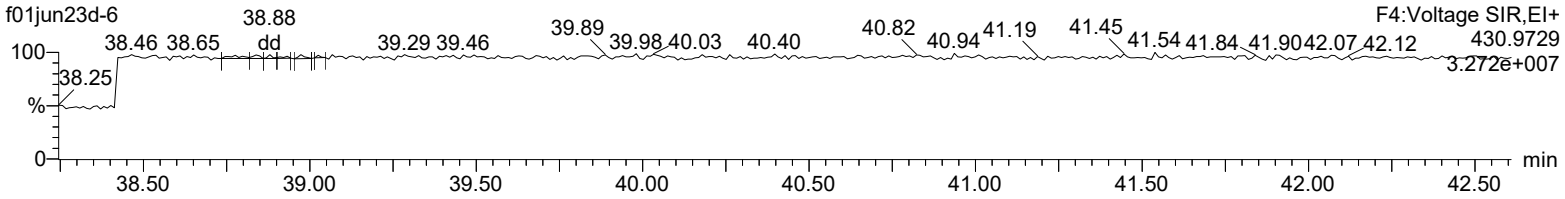


Lock Mass F4



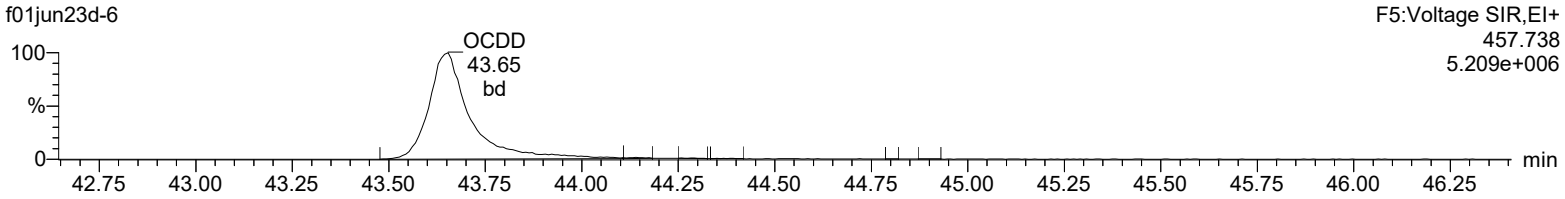
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

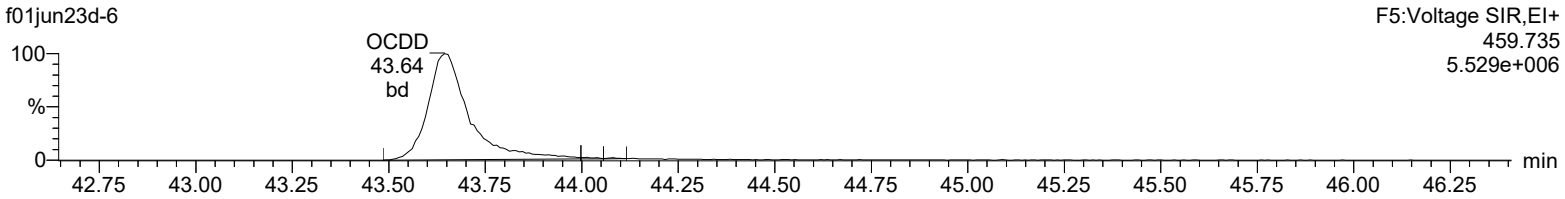
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

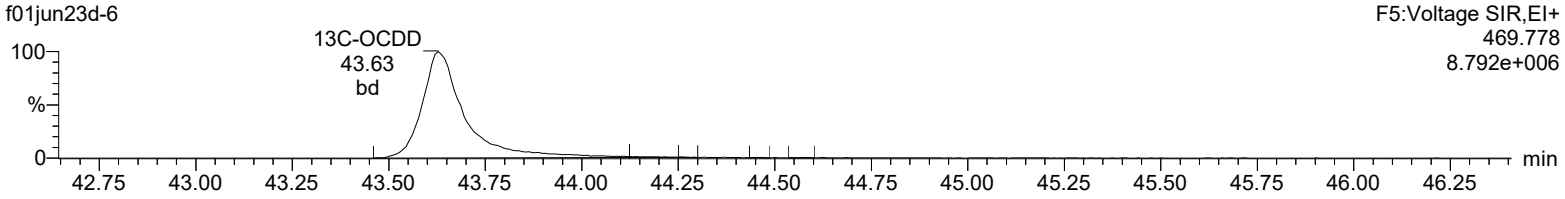
OCDD



OCDD



13C-OCDD



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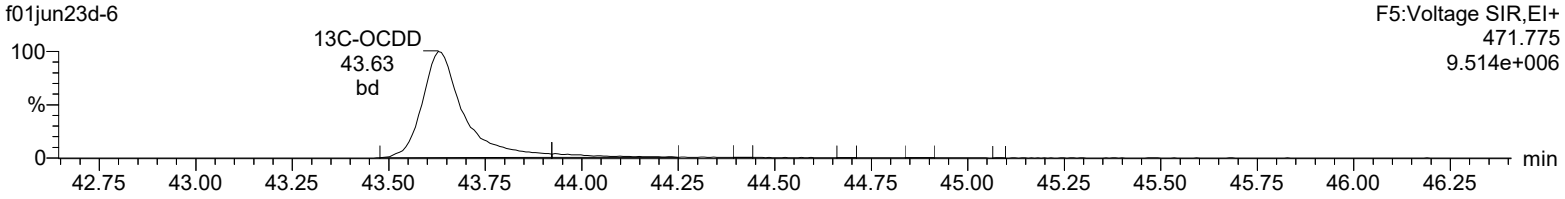
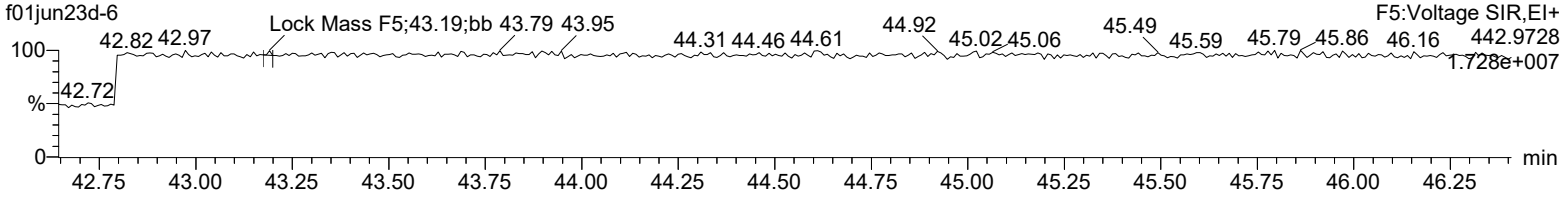


Lock Mass F5



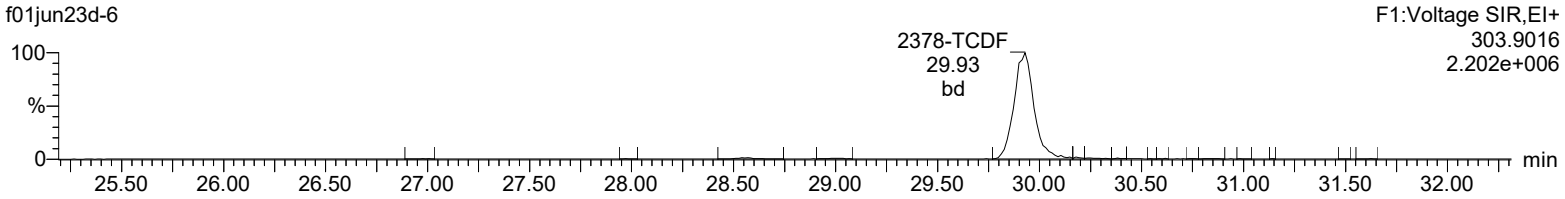
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

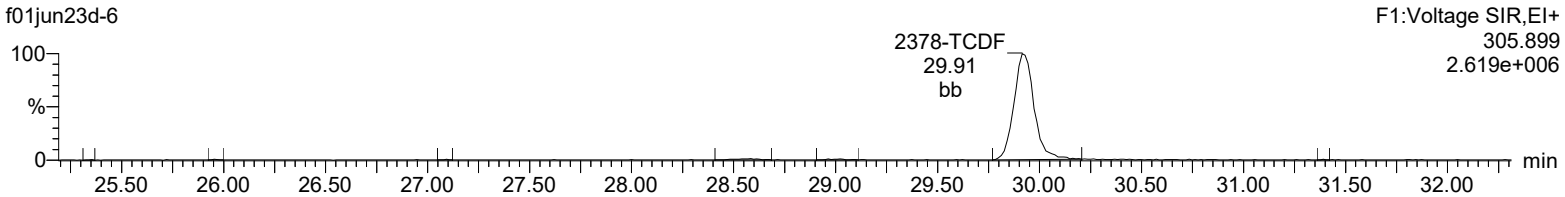
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

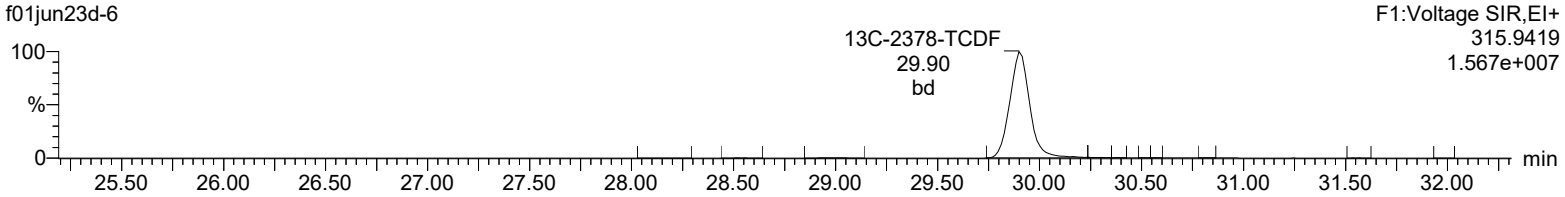
Total-tetrafurans



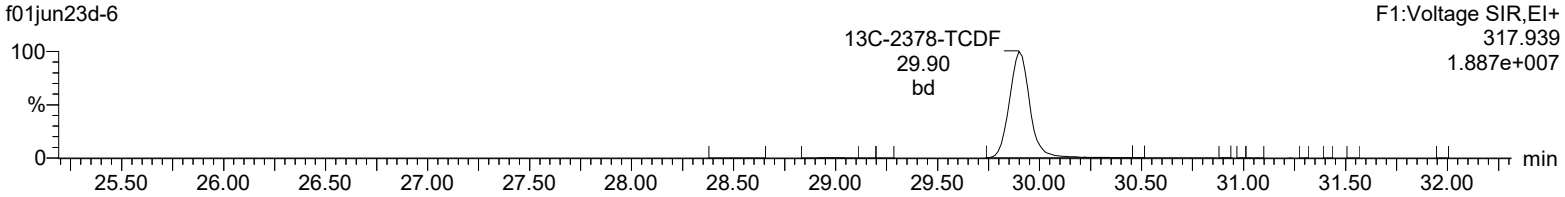
Total-tetrafurans



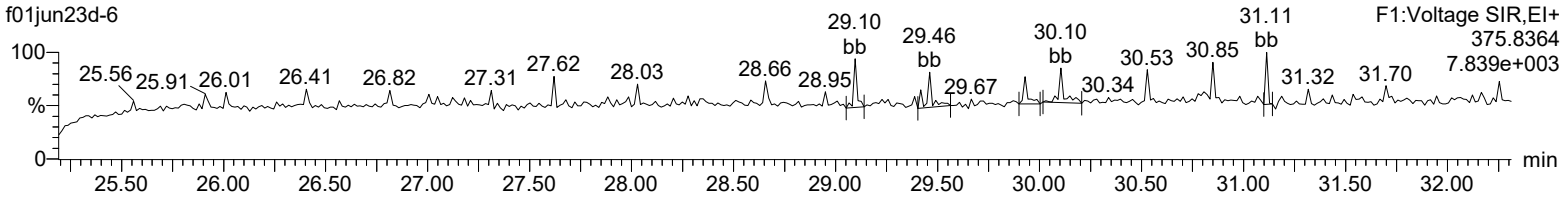
13C-2378-TCDF



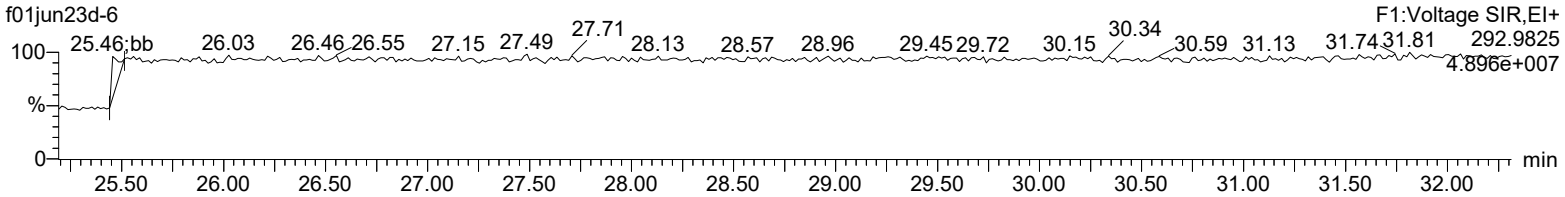
13C-2378-TCDF



HxDPE



Lock Mass F1



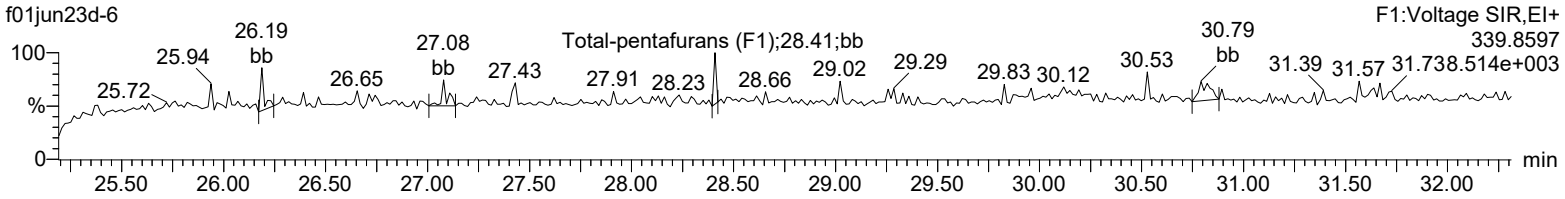
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

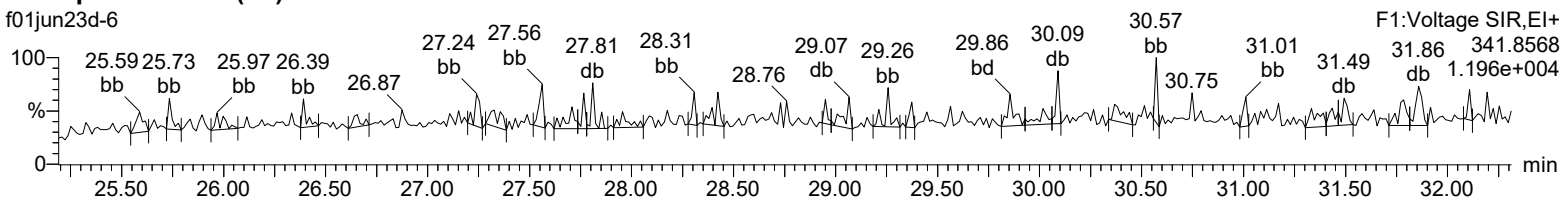
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

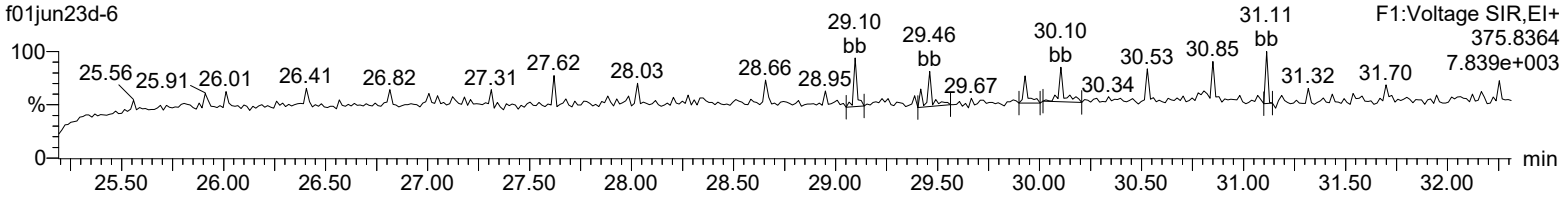
Total-pentafurans (F1)



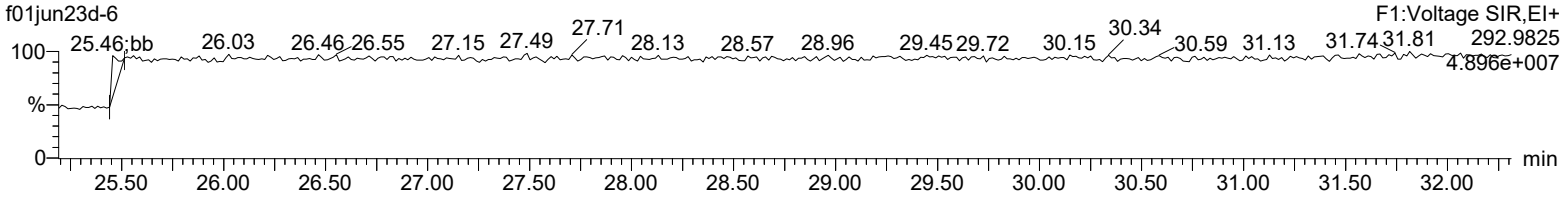
Total-pentafurans (F1)



HxDPE



Lock Mass F1



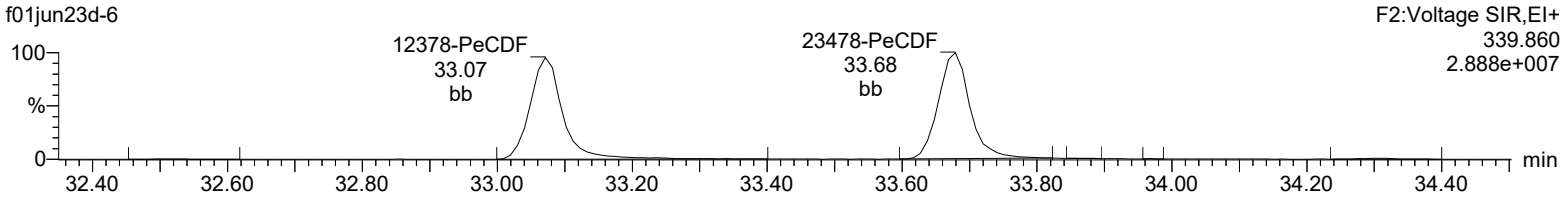
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

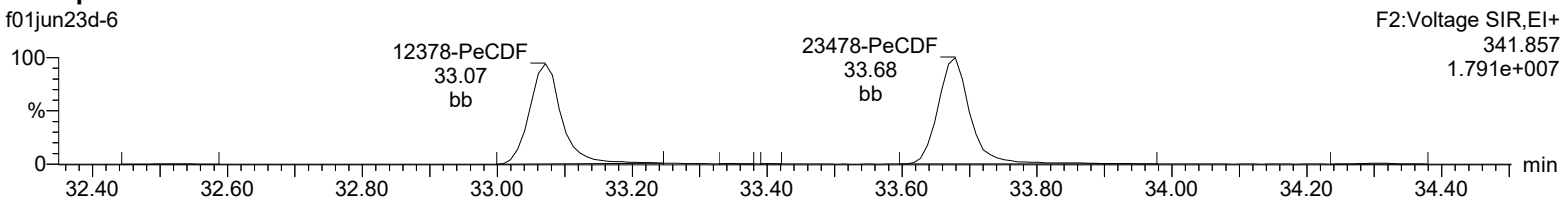
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

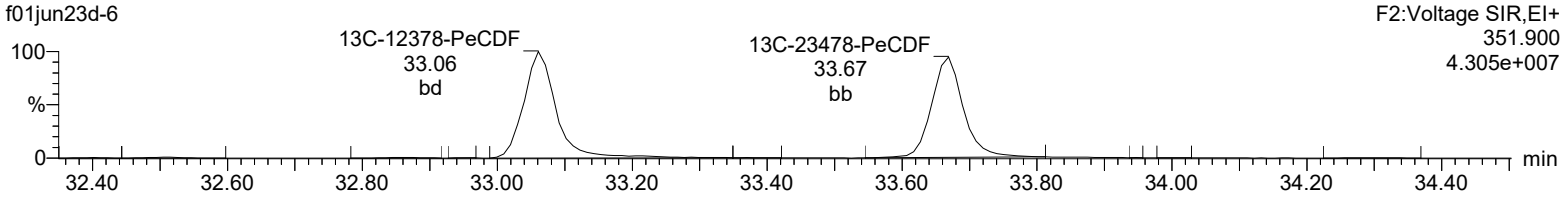
Total-pentafurans



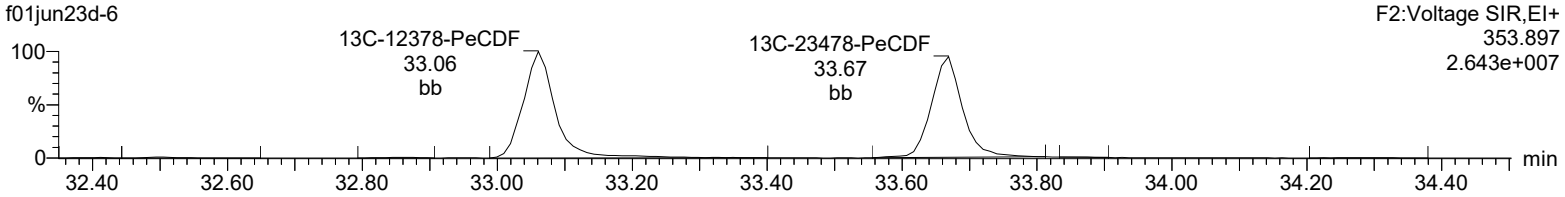
Total-pentafurans



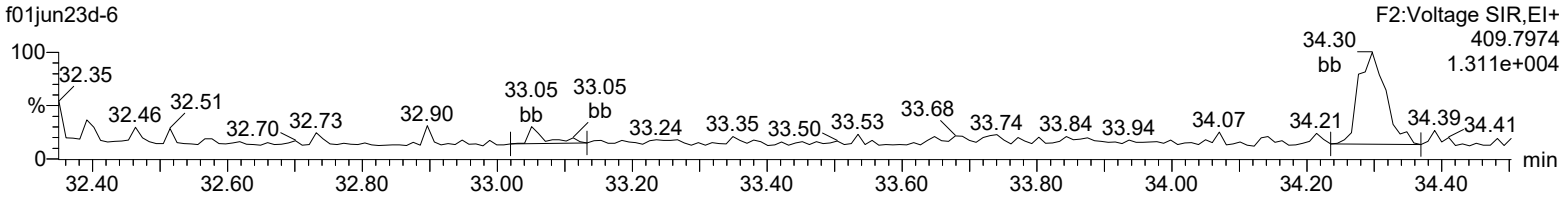
13C-12378-PeCDF



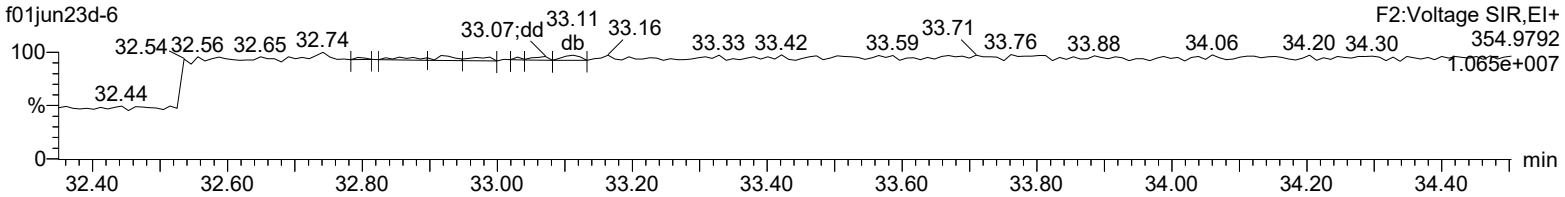
13C-12378-PeCDF



HpDPE



Lock Mass F2



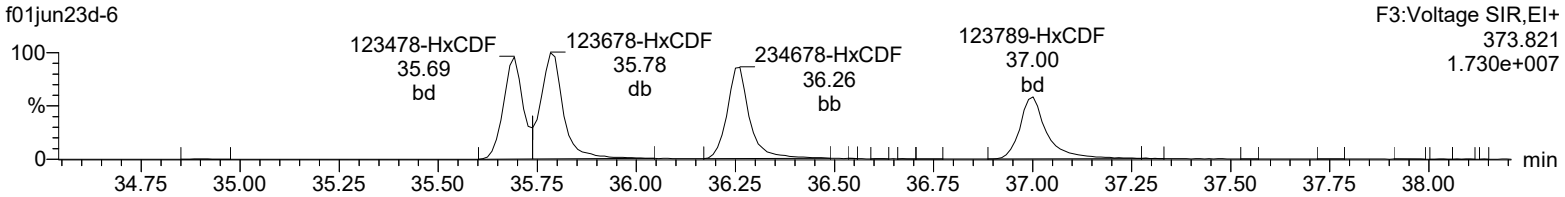
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

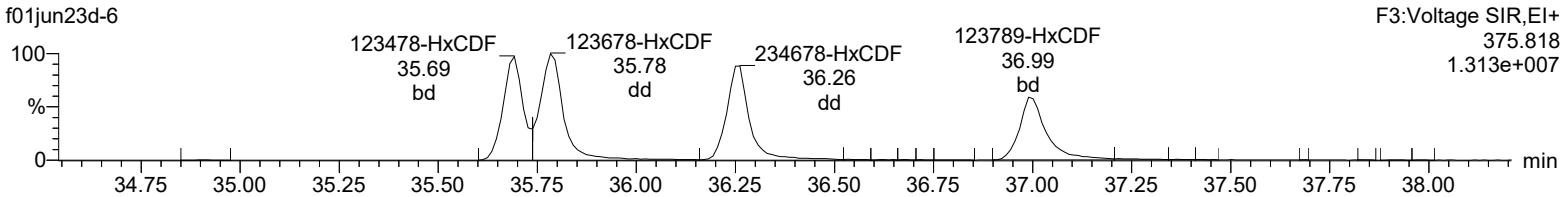
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

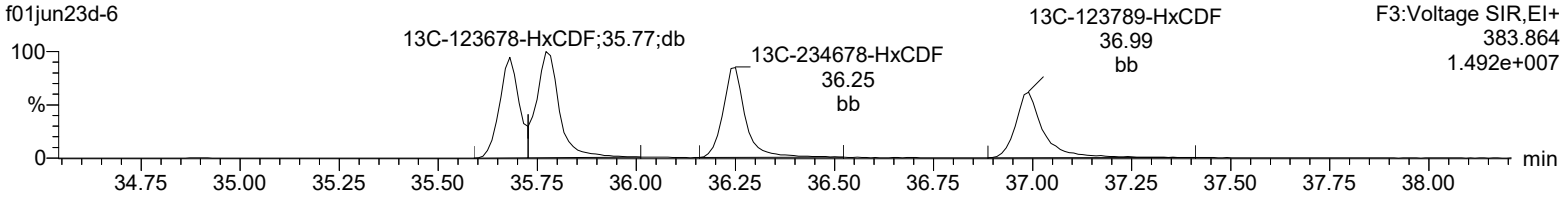
Total-hexafurans



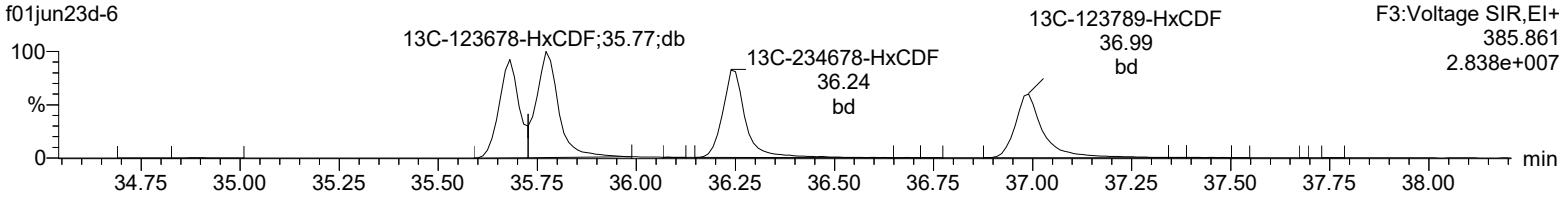
Total-hexafurans



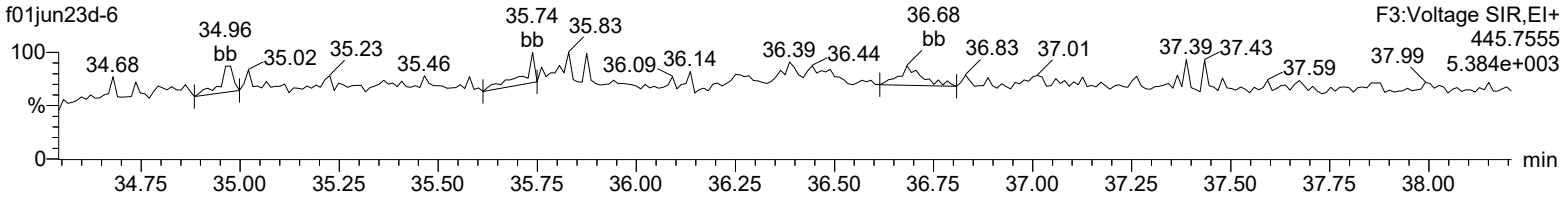
13C-123478-HxCDF



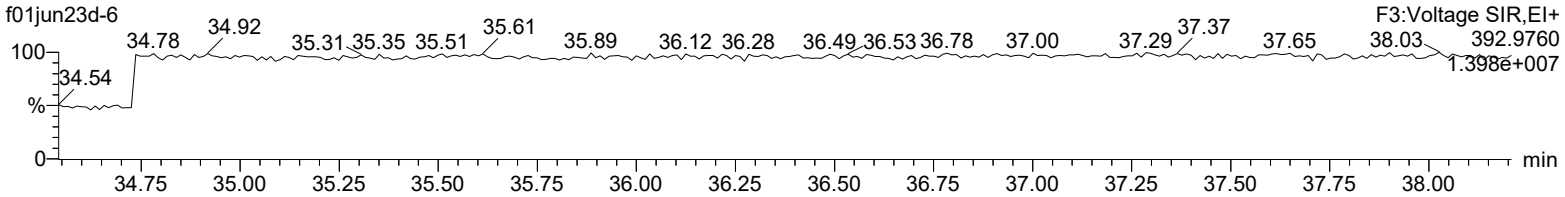
13C-123478-HxCDF



OcDPE



Lock Mass F3



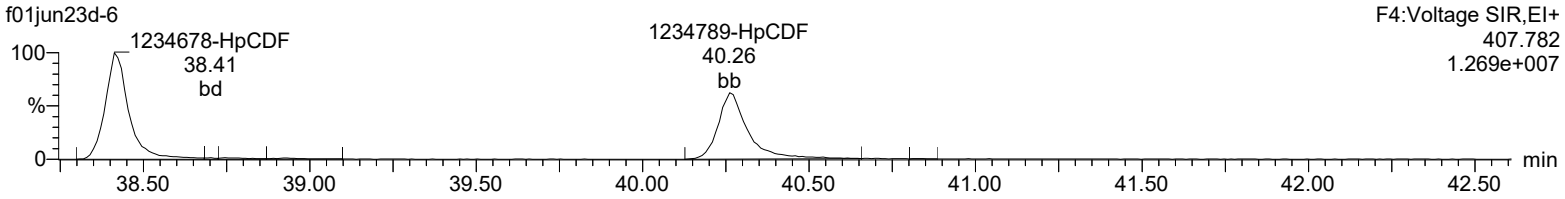
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

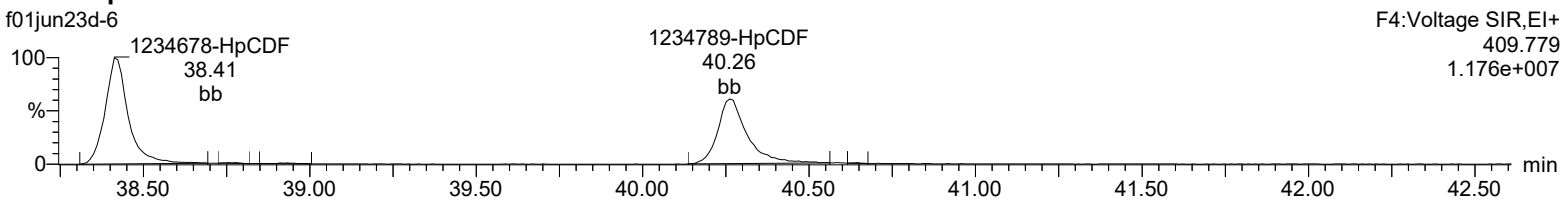
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

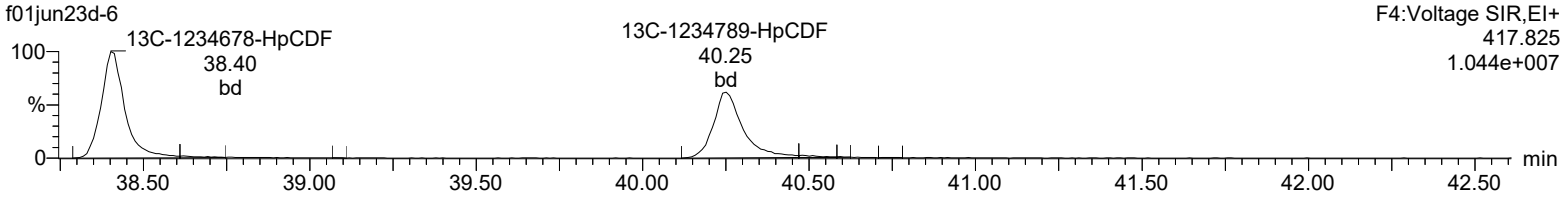
Total-heptafurans



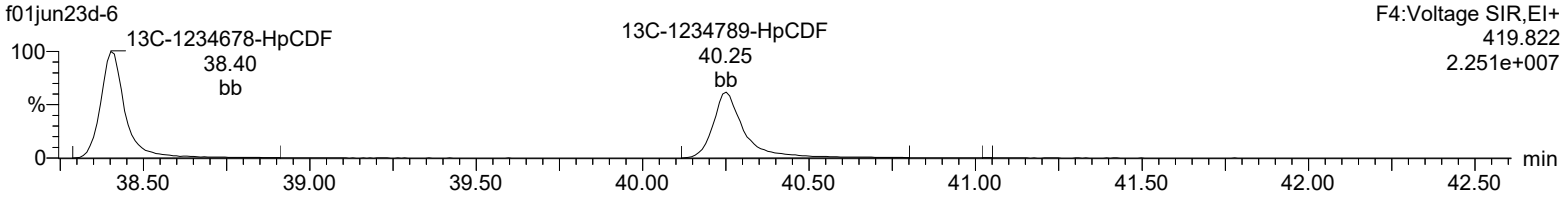
Total-heptafurans



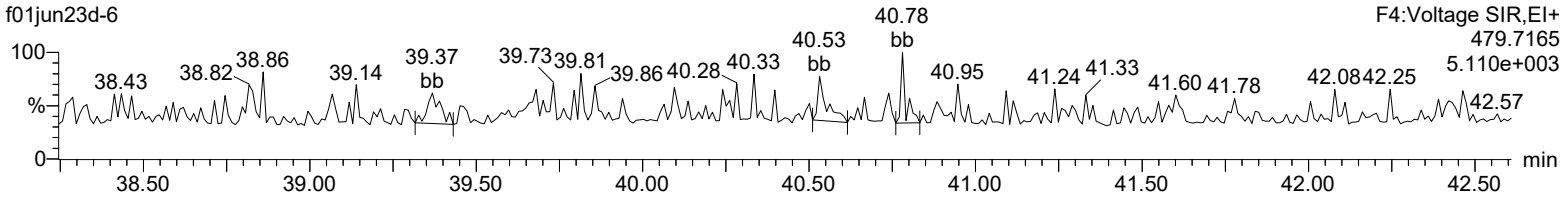
13C-1234678-HpCDF



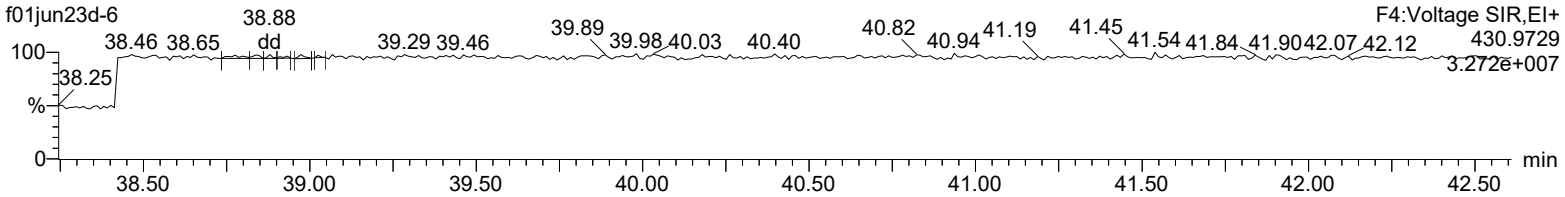
13C-1234678-HpCDF



NoDPE



Lock Mass F4



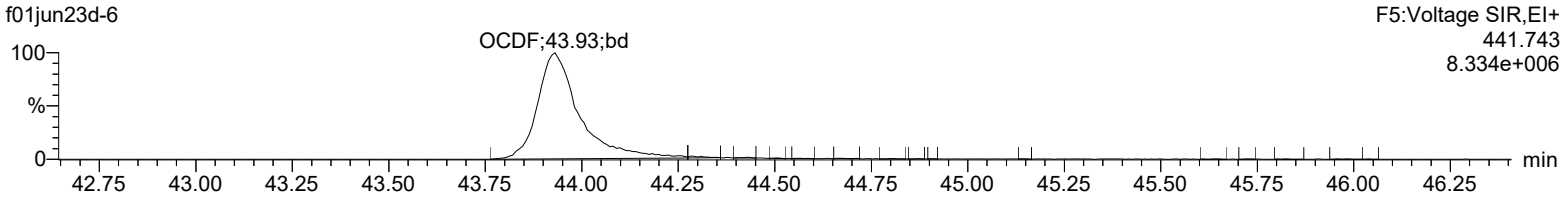
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

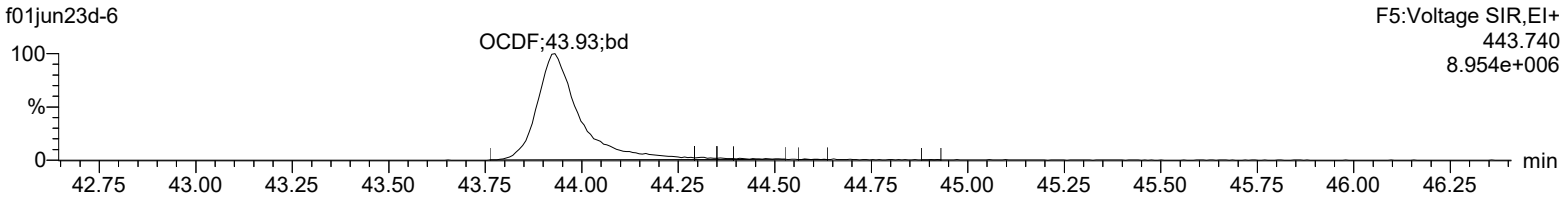
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:22 Eastern Daylight Time

Name: f01jun23d-6, Date: 01-Jun-2023, Time: 23:06:18, ID: CS3 UD220929-07 CS3AF

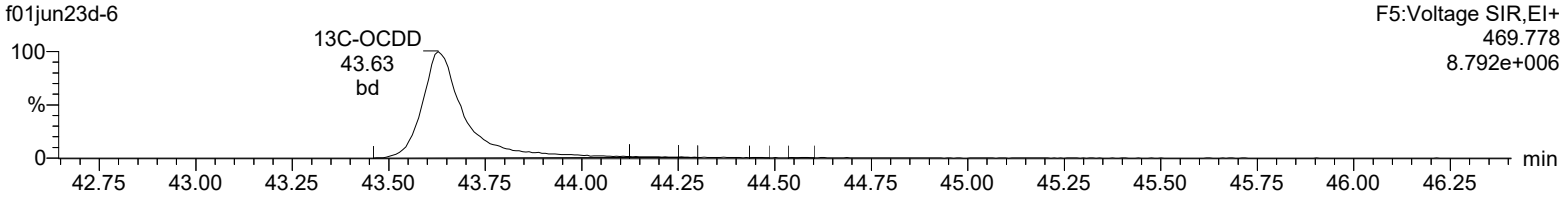
OCDF



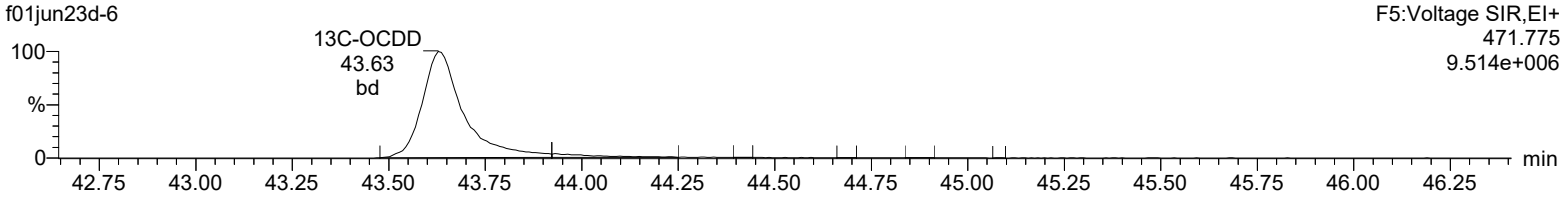
OCDF



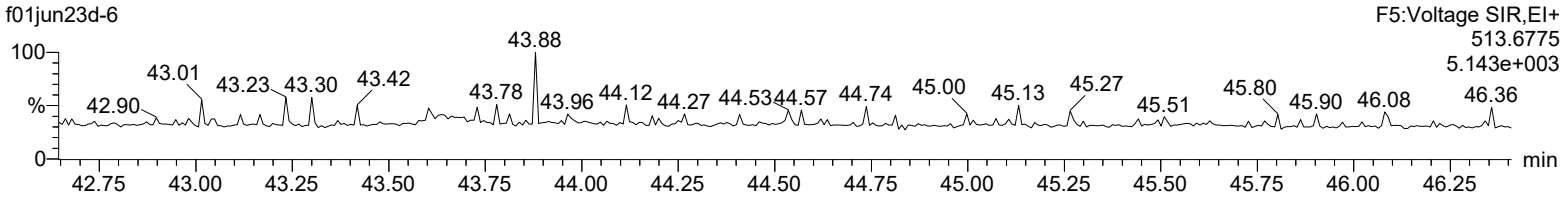
13C-OCDD



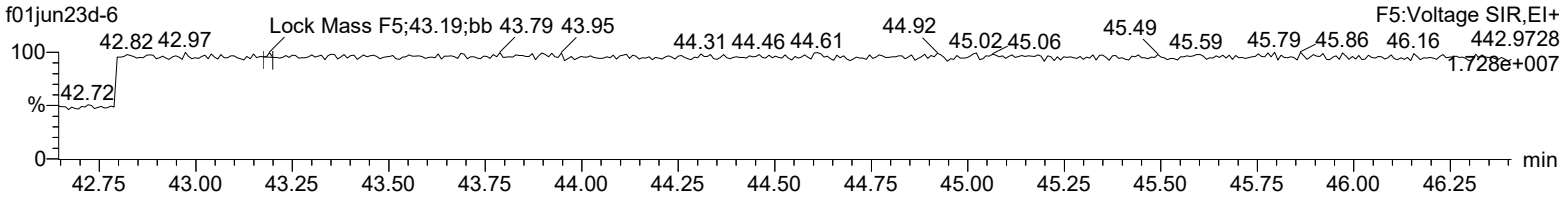
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:51 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	4.68e5	5.58e5	1.03e6	30.83	1.000	0.84	NO	40.895	1.124	1.100	5.89	0.0650	5.52e6	3152	1751.2	6.59e6	3048	2162.8	bd	bb
2	12378-PeCDD	2.45e6	1.49e6	3.94e6	33.88	1.000	1.65	NO	206.875	1.204	1.164	4.32	0.179	4.83e7	13987	3454.3	2.91e7	7872	3695.9	bb	bb
3	123478-HxCDD	1.78e6	1.40e6	3.18e6	36.39	1.000	1.27	NO	207.126	1.111	1.073	4.27	0.271	3.20e7	13737	2332.9	2.53e7	10047	2521.7	bd	dd
4	123678-HxCDD	2.10e6	1.63e6	3.73e6	36.48	1.000	1.29	NO	209.874	1.117	1.064	5.73	0.254	3.35e7	13737	2439.2	2.61e7	10047	2596.0	dd	dd
5	123789-HxCDD	1.95e6	1.53e6	3.48e6	36.71	1.007	1.27	NO	210.570	1.123	1.066	6.89	0.263	2.85e7	13737	2073.8	2.22e7	10047	2210.8	dd	dd
6	1234678-HpCDD	1.77e6	1.62e6	3.38e6	39.63	1.000	1.10	NO	214.270	1.316	1.228	7.21	0.653	2.06e7	25069	819.9	1.93e7	15600	1239.6	bb	bd
7	OCDD	2.39e6	2.60e6	4.99e6	43.65	1.000	0.92	NO	426.920	1.182	1.107	6.02	0.933	2.15e7	12123	1775.2	2.38e7	20604	1156.6	bd	bd
8	2378-TCDF	8.77e5	1.07e6	1.95e6	29.94	1.001	0.82	NO	41.340	1.398	1.352	4.83	0.118	8.11e6	6942	1168.9	1.02e7	10040	1012.2	bb	bd
9	12378-PeCDF	5.79e6	3.53e6	9.33e6	33.08	1.000	1.64	NO	210.607	1.341	1.274	6.94	0.205	1.17e8	37071	3161.2	7.18e7	21846	3286.6	bd	bd
10	23478-PeCDF	5.90e6	3.63e6	9.53e6	33.69	1.000	1.63	NO	207.944	1.450	1.394	4.15	0.190	1.19e8	37071	3206.9	7.25e7	21846	3316.9	bb	bb
11	123478-HxCDF	3.63e6	2.61e6	6.24e6	35.70	1.000	1.39	NO	204.791	1.452	1.418	4.11	0.456	6.44e7	43109	1492.8	4.78e7	38489	1241.7	bd	bd
12	123678-HxCDF	4.15e6	3.25e6	7.40e6	35.79	1.000	1.28	NO	206.904	1.426	1.378	4.15	0.414	6.97e7	43109	1616.7	5.21e7	38489	1353.4	db	db
13	234678-HxCDF	3.77e6	2.85e6	6.62e6	36.26	1.000	1.32	NO	213.776	1.520	1.422	5.96	0.473	6.47e7	43109	1500.0	4.89e7	38489	1269.3	bd	bb
14	123789-HxCDF	3.03e6	2.28e6	5.31e6	37.00	1.000	1.33	NO	208.623	1.358	1.302	5.43	0.725	4.12e7	43109	954.9	3.11e7	38489	807.6	bb	bb
15	1234678-HpCDF	3.69e6	3.48e6	7.17e6	38.42	1.000	1.06	NO	203.717	1.410	1.384	4.56	0.498	5.07e7	37116	1365.5	4.84e7	39680	1218.6	bb	bb
16	1234789-HpCDF	3.05e6	2.77e6	5.82e6	40.27	1.000	1.10	NO	217.547	1.483	1.364	8.52	0.791	3.20e7	37116	863.3	3.02e7	39680	761.5	bd	bb
17	OCDF	4.23e6	4.55e6	8.78e6	43.94	1.007	0.93	NO	474.318	2.078	1.752	16.82	0.811	3.76e7	16122	2335.1	3.92e7	28896	1357.6	bd	bd
18	13C-2378-TCDD	1.01e6	1.27e6	2.28e6	30.82	1.023	0.80	NO	99.560	1.134	1.139	2.81	0.166	1.15e7	7112	1621.7	1.45e7	5251	2758.9	bd	bd
19	13C-12378-PeCDD	1.01e6	6.25e5	1.64e6	33.86	1.124	1.62	NO	99.966	0.813	0.813	6.11	0.185	1.95e7	5725	3403.1	1.20e7	4132	2892.6	bb	bb
20	13C-123478-HxCDD	8.01e5	6.30e5	1.43e6	36.38	0.991	1.27	NO	104.279	0.884	0.847	3.44	0.306	1.37e7	9290	1477.5	1.10e7	10291	1066.7	bd	bd
21	13C-123678-HxCDD	9.34e5	7.35e5	1.67e6	36.47	0.994	1.27	NO	100.302	1.030	1.027	0.98	0.253	1.48e7	9290	1587.8	1.17e7	10291	1136.9	dd	dd
22	13C-1234678-HpCDD	6.66e5	6.20e5	1.29e6	39.62	1.080	1.08	NO	99.201	0.794	0.800	2.20	0.420	7.88e6	12212	645.2	7.39e6	13180	560.8	bb	bd
23	13C-OCDD	9.86e5	1.13e6	2.11e6	43.64	1.189	0.88	NO	199.840	0.652	0.653	4.31	0.496	8.87e6	13108	676.8	9.75e6	11326	860.8	bd	bd
24	13C-2378-TCDF	1.54e6	1.95e6	3.49e6	29.91	0.993	0.79	NO	100.003	1.734	1.734	1.52	0.142	1.41e7	7065	1998.0	1.73e7	9048	1914.9	bb	bd
25	13C-12378-PeCDF	2.18e6	1.29e6	3.48e6	33.07	1.097	1.69	NO	100.458	1.727	1.719	3.99	0.444	4.26e7	26029	1638.3	2.60e7	23988	1083.9	bd	bd
26	13C-23478-PeCDF	2.05e6	1.23e6	3.29e6	33.68	1.118	1.67	NO	100.822	1.632	1.619	7.01	0.471	4.17e7	26029	1602.7	2.45e7	23988	1019.9	bb	bb
27	13C-123478-HxCDF	7.56e5	1.39e6	2.15e6	35.69	0.973	0.54	NO	102.769	1.327	1.291	3.13	0.361	1.33e7	17884	745.3	2.41e7	17337	1389.6	bd	bd
28	13C-123678-HxCDF	9.26e5	1.67e6	2.60e6	35.78	0.975	0.55	NO	100.247	1.602	1.598	1.73	0.292	1.53e7	17884	856.5	2.79e7	17337	1607.2	dd	db
29	13C-234678-HxCDF	7.78e5	1.40e6	2.18e6	36.25	0.988	0.56	NO	100.495	1.344	1.338	1.29	0.349	1.30e7	17884	726.9	2.42e7	17337	1398.6	bb	bb
30	13C-123789-HxCDF	6.90e5	1.26e6	1.95e6	37.00	1.008	0.55	NO	101.332	1.206	1.190	2.59	0.392	9.17e6	17884	512.7	1.68e7	17337	969.1	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:51 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	8.08e5	1.73e6	2.54e6	38.41	1.047	0.47	NO	102.141	1.570	1.537	2.02	0.360	1.06e7	19223	553.2	2.30e7	22541	1019.2	bd	bd
32	13C-1234789-HpCDF	6.08e5	1.35e6	1.96e6	40.26	1.097	0.45	NO	101.082	1.211	1.198	2.23	0.462	6.62e6	19223	344.4	1.42e7	22541	628.9	bb	bd
33	13C-1234-TCDD	9.02e5	1.11e6	2.01e6	30.13	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.189	8.80e6	7112	1237.7	1.05e7	5251	2006.0	bb	bb
34	13C-123789-HxCDD	9.05e5	7.15e5	1.62e6	36.69	0.000	1.26	NO	100.000	1.000	1.000	0.00	0.259	1.26e7	9290	1360.9	9.83e6	10291	954.9	dd	dd
35	37Cl-2378-TCDD	9.33e5		9.33e5	30.83	1.023			41.219	1.158	1.124	6.42	0.0343	1.10e7	2523	4358.1				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

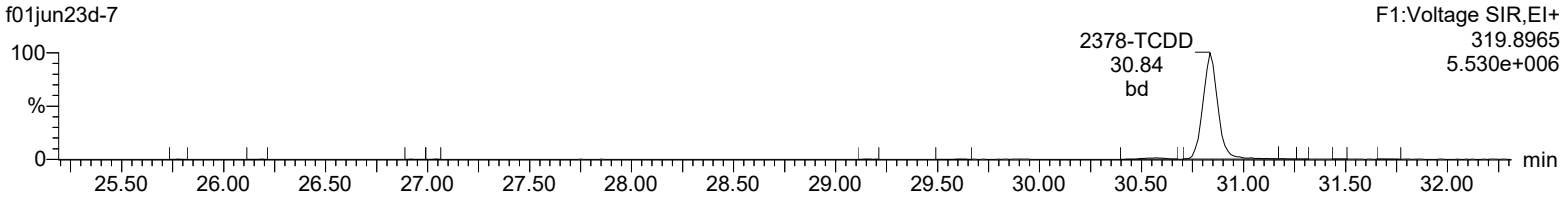
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

06/06/2023

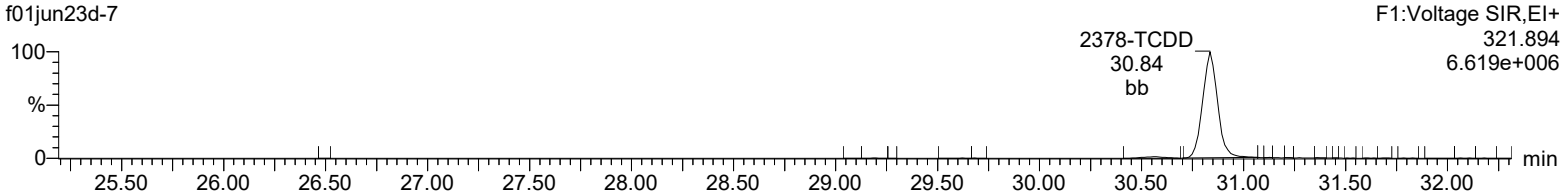
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

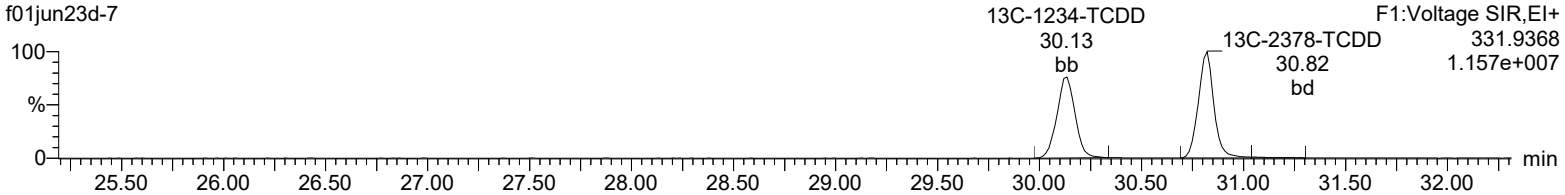
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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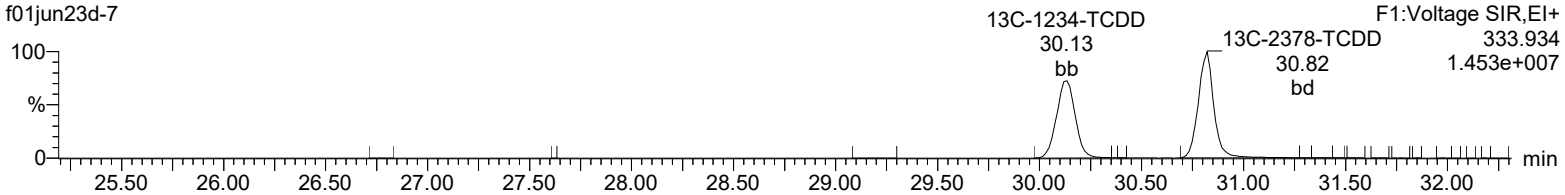
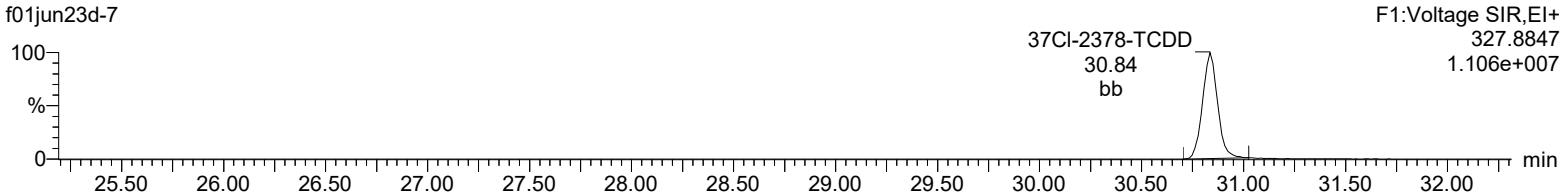
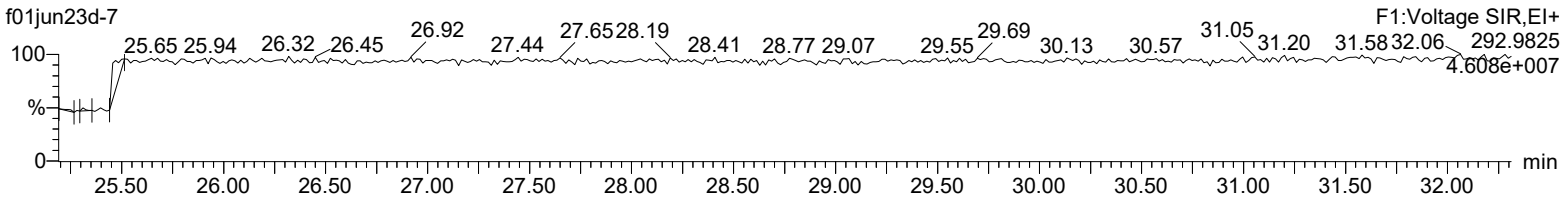


37Cl-2378-TCDD



Lock Mass F1



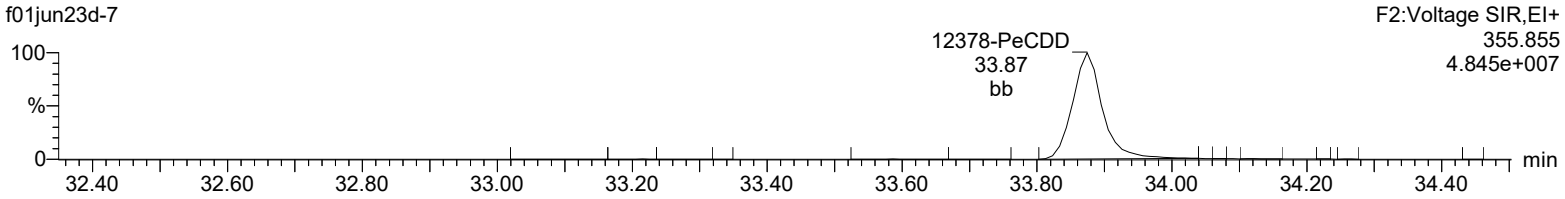
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

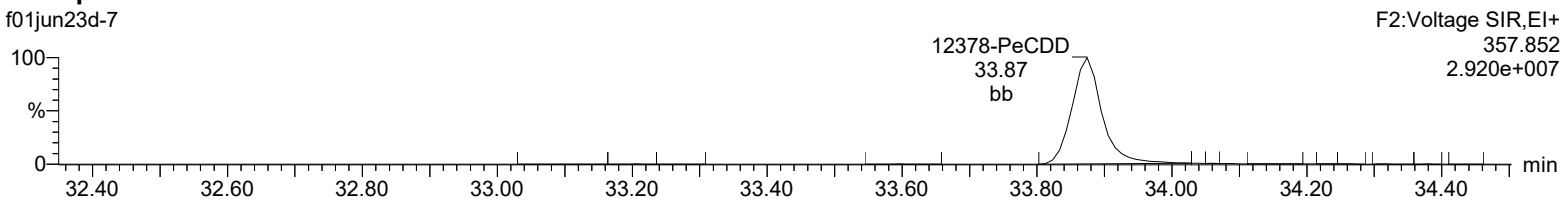
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

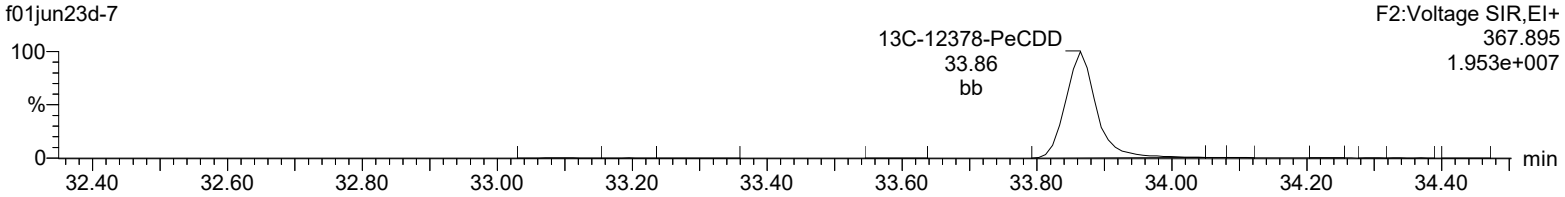
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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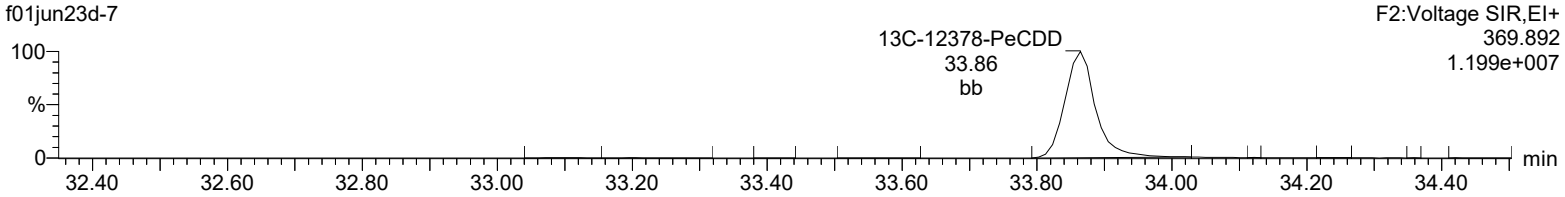
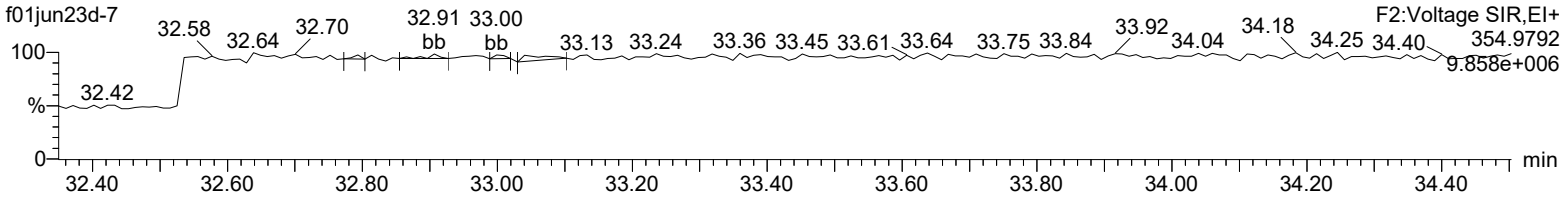


Lock Mass F2



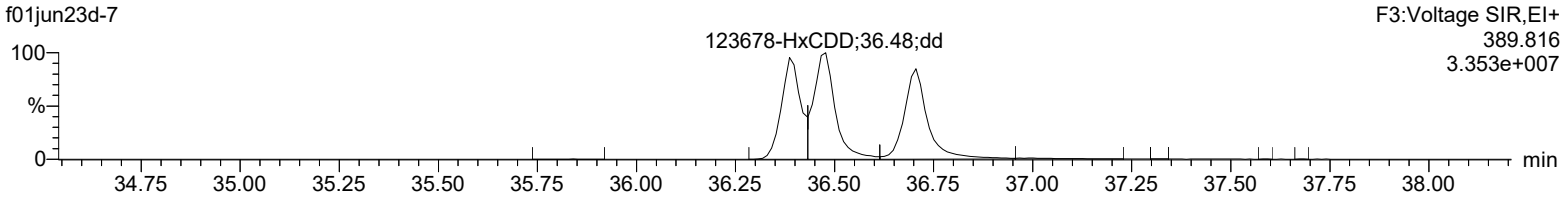
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

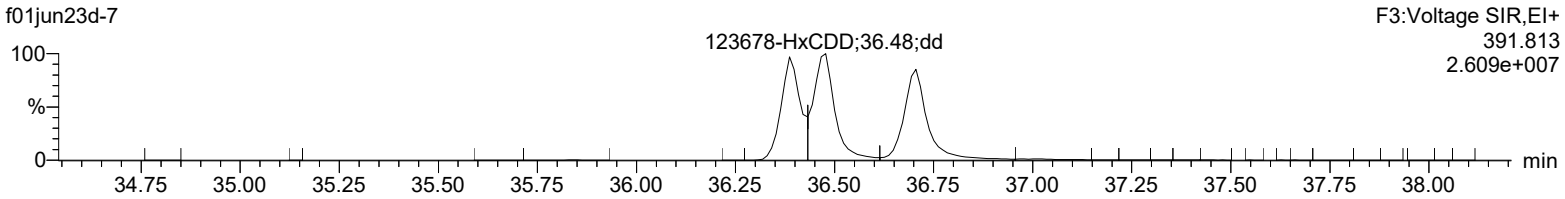
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

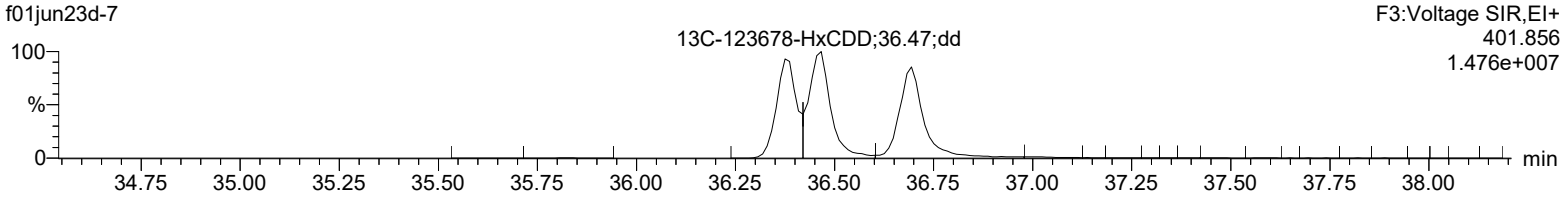
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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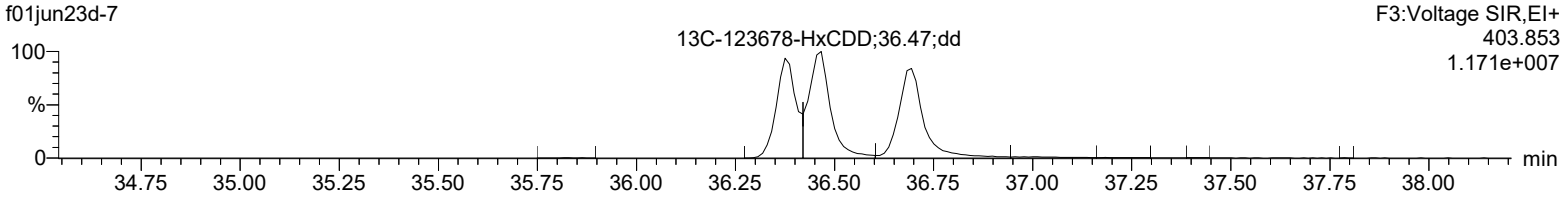
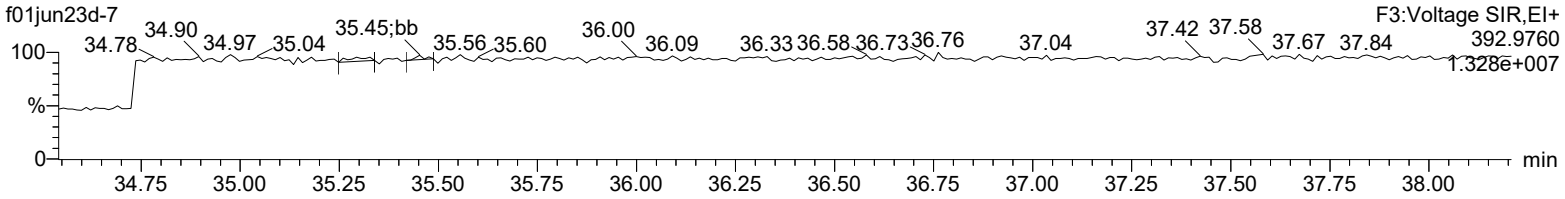


Lock Mass F3



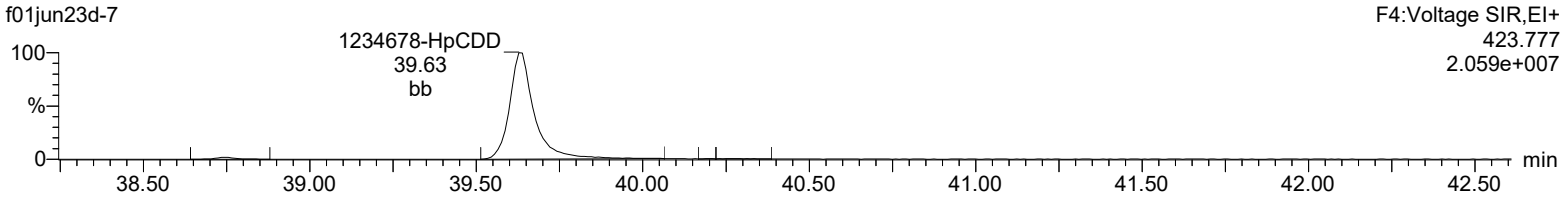
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

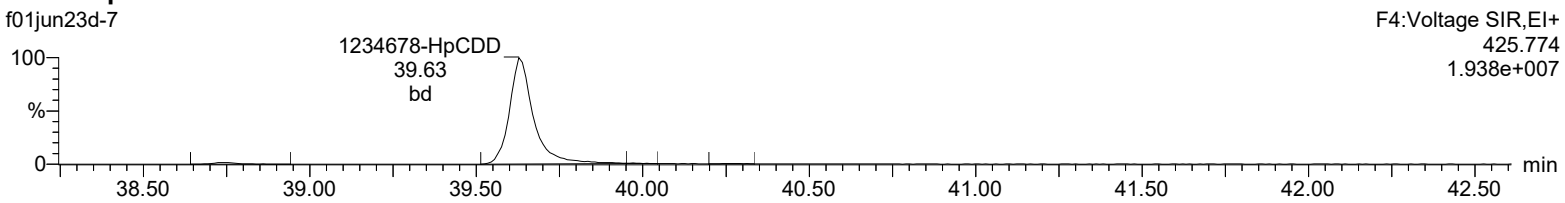
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

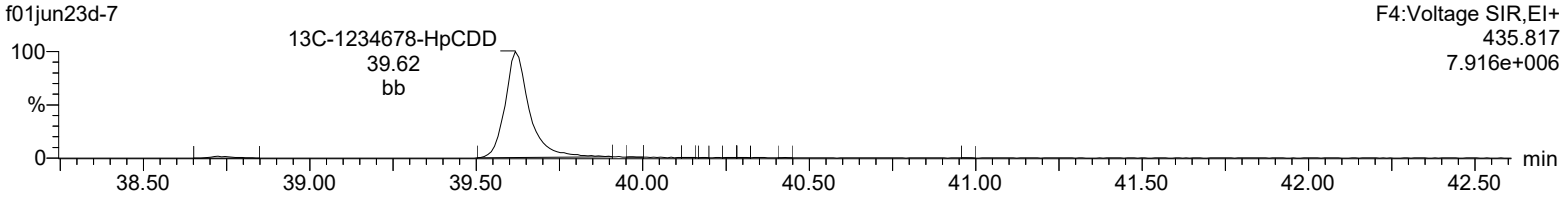
Total-heptadioxins



Total-heptadioxins



13C-1234678-HpCDD



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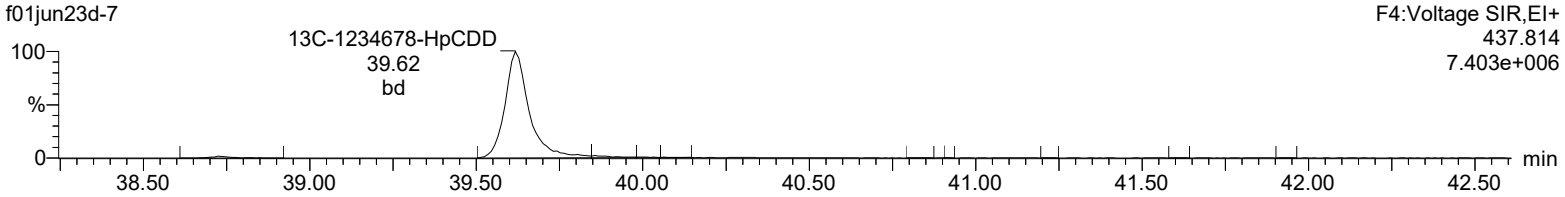
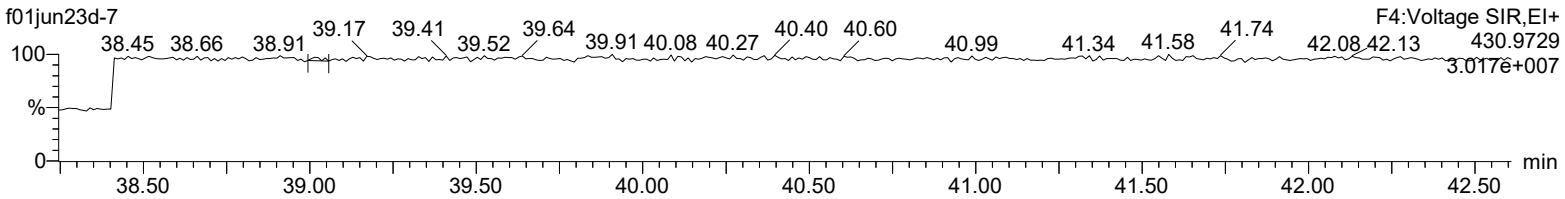


Lock Mass F4



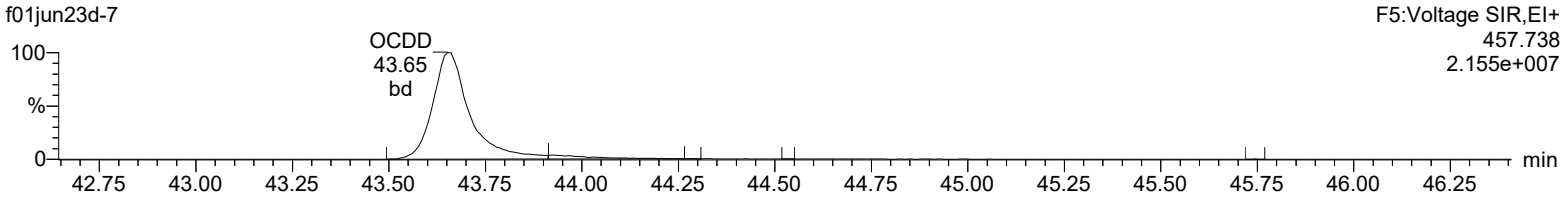
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

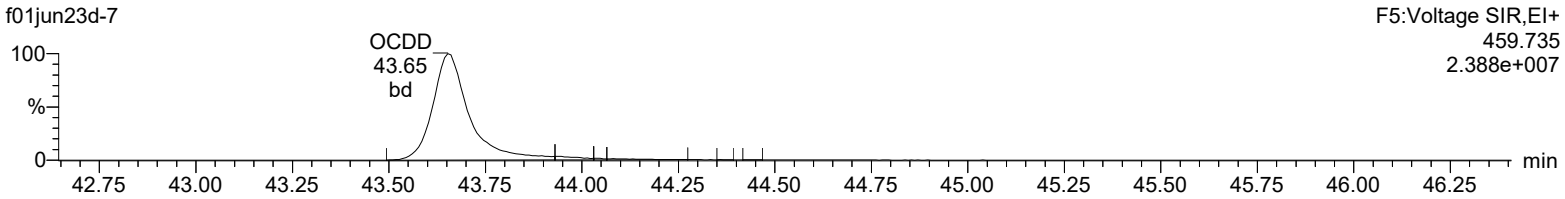
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

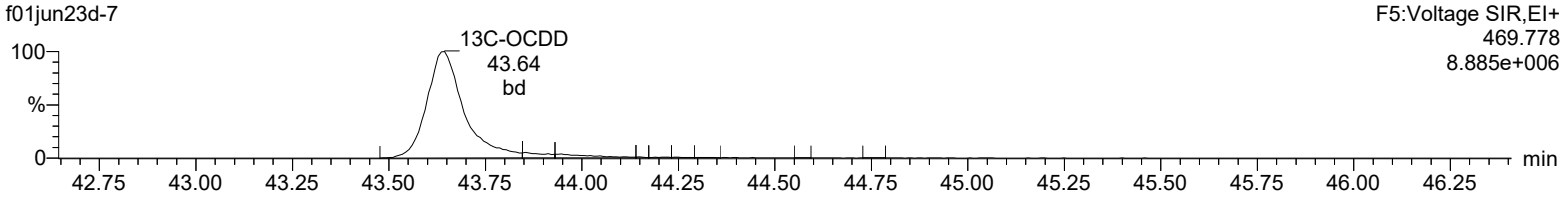
OCDD



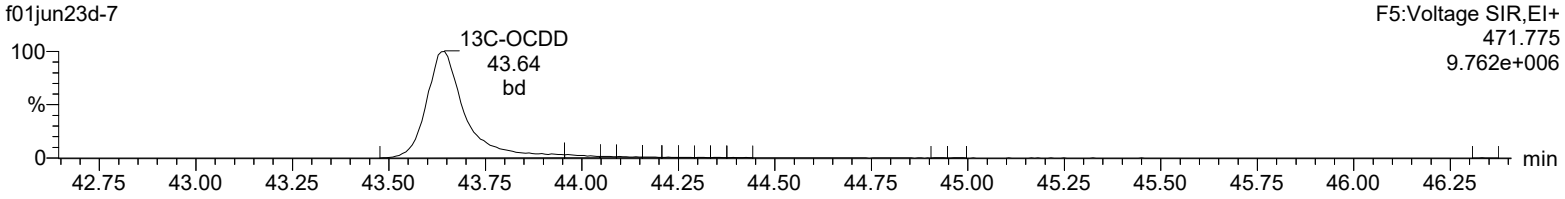
OCDD



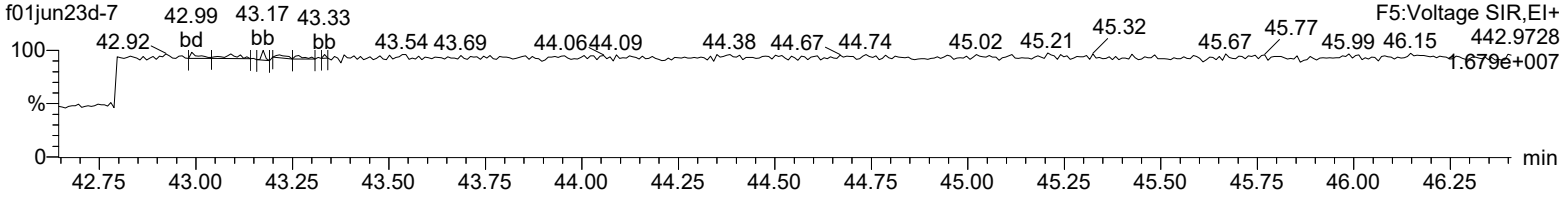
13C-OCDD



13C-OCDD



Lock Mass F5



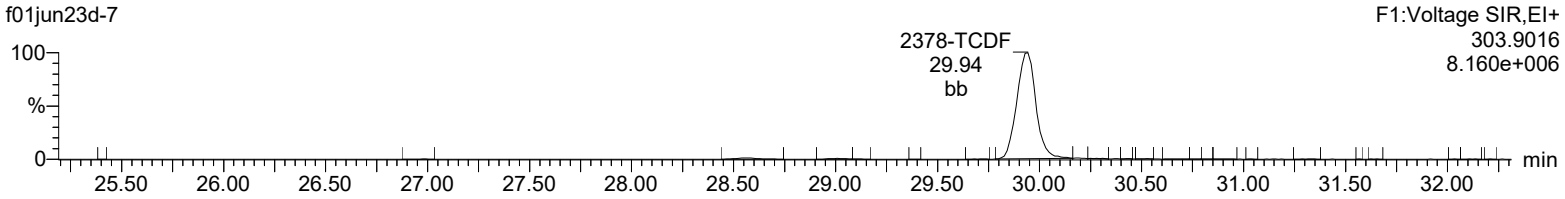
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

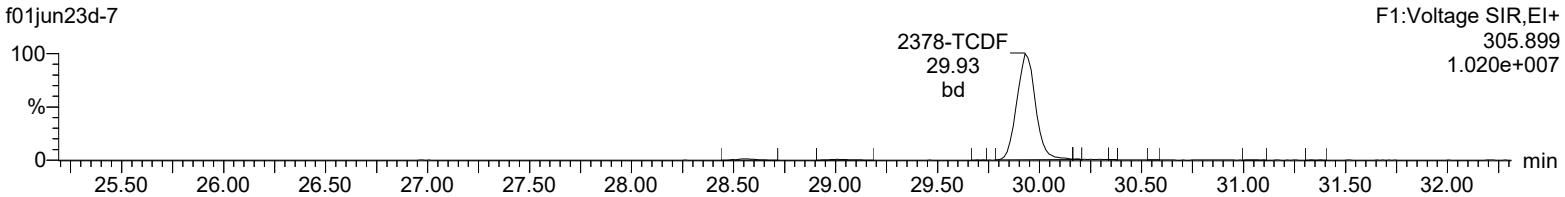
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

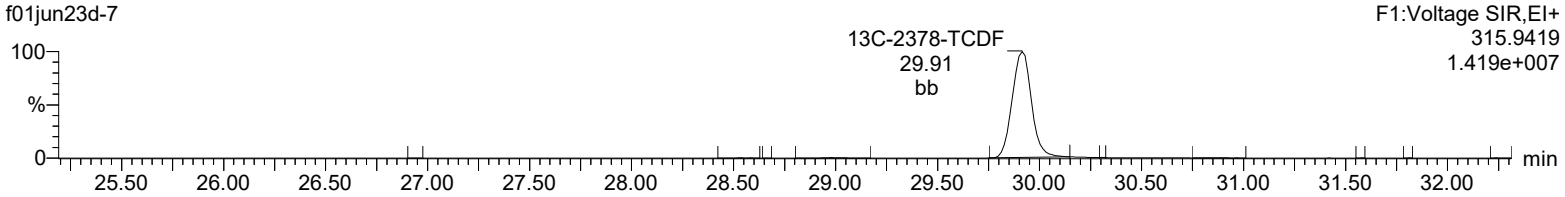
Total-tetrafurans



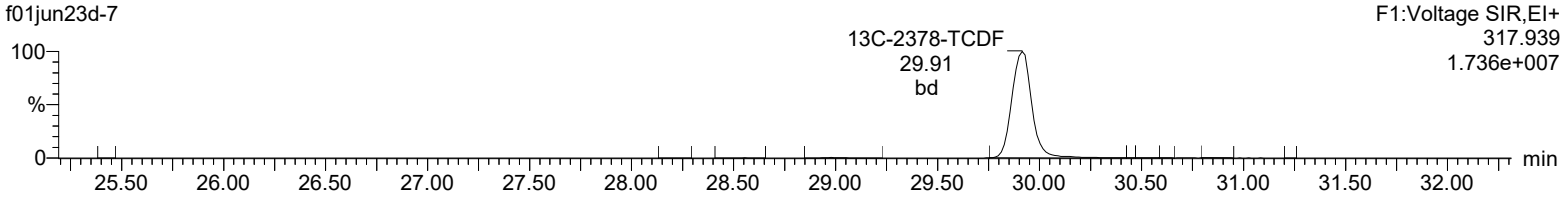
Total-tetrafurans



13C-2378-TCDF



13C-2378-TCDF



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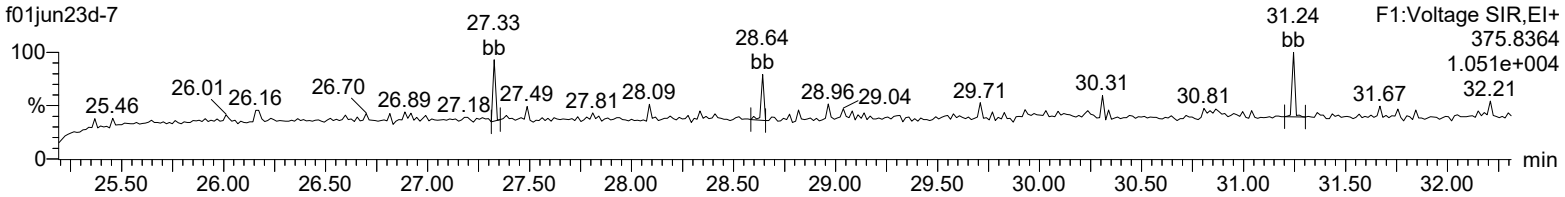
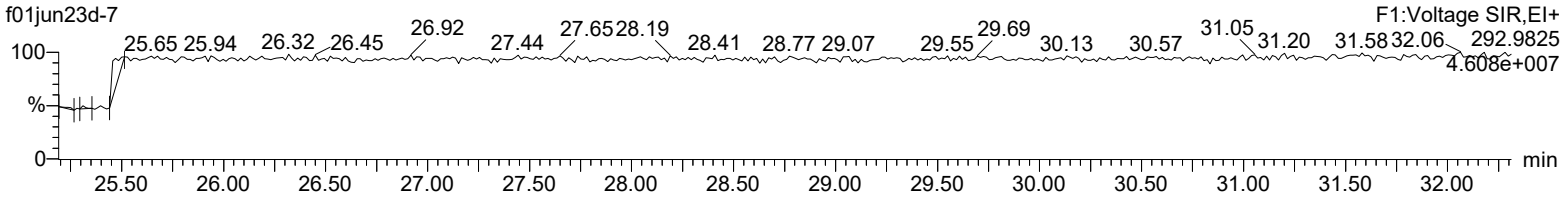


Lock Mass F1



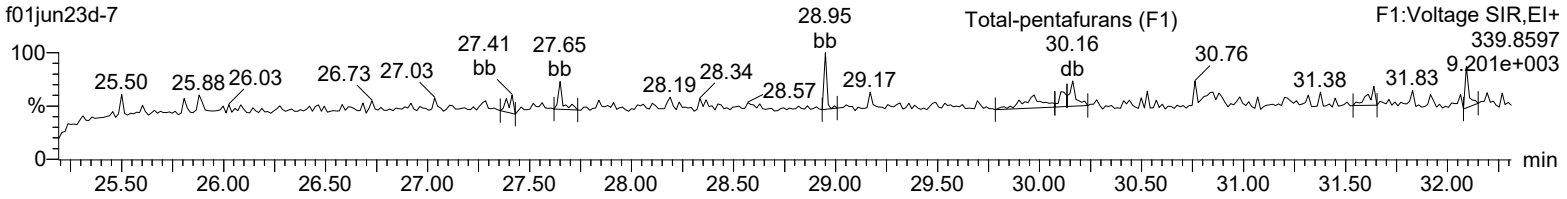
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

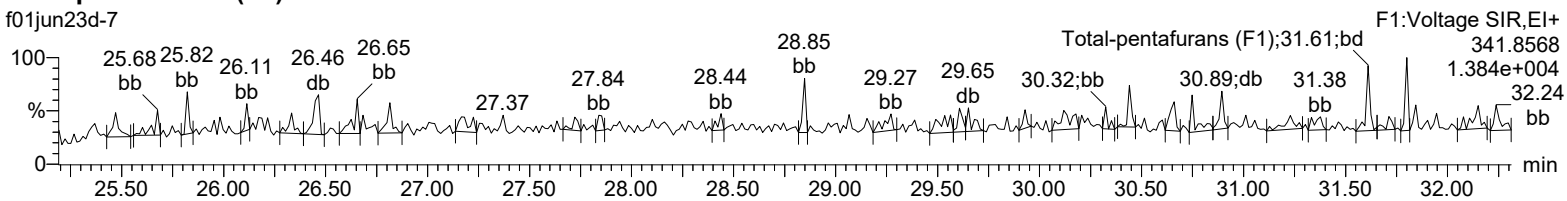
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

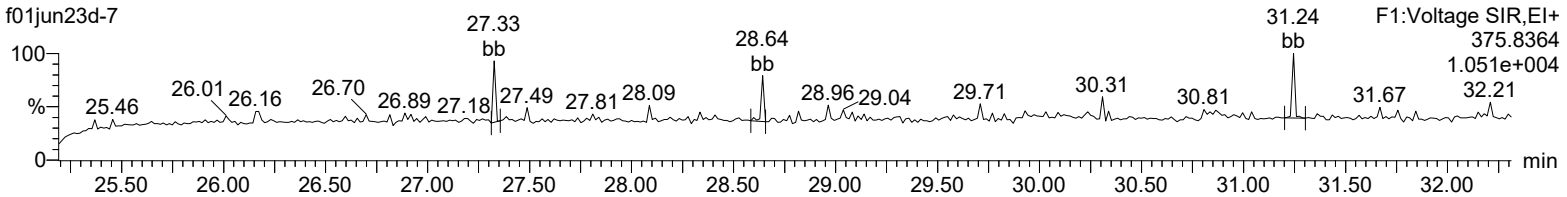
Total-pentafurans (F1)



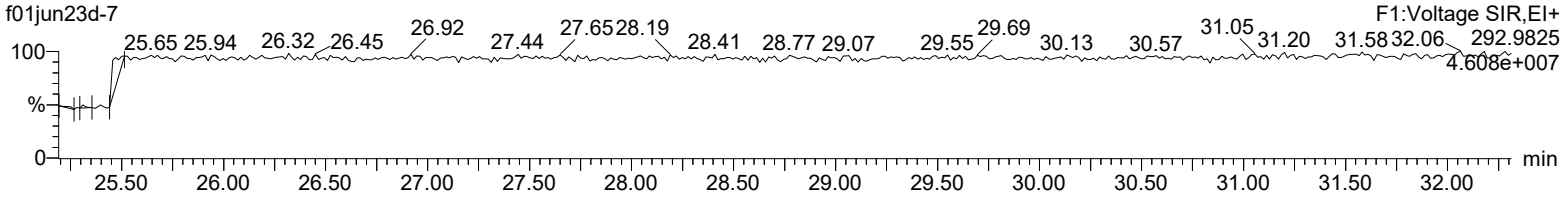
Total-pentafurans (F1)



HxDPE



Lock Mass F1



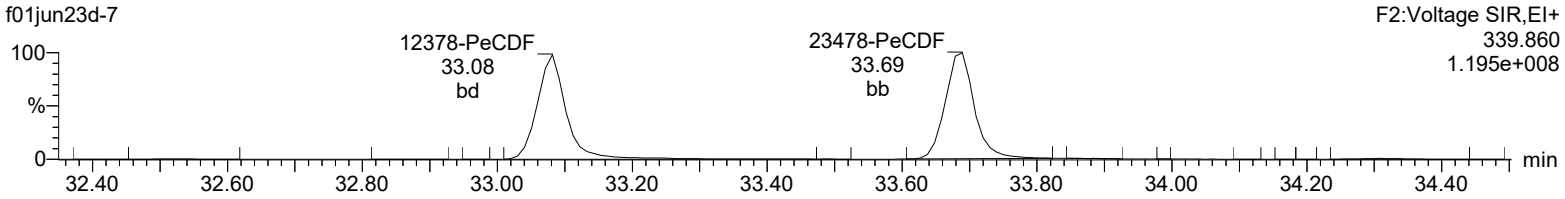
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

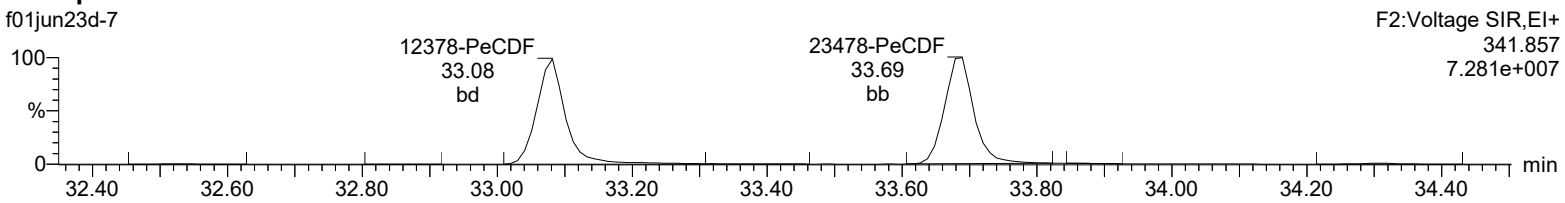
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

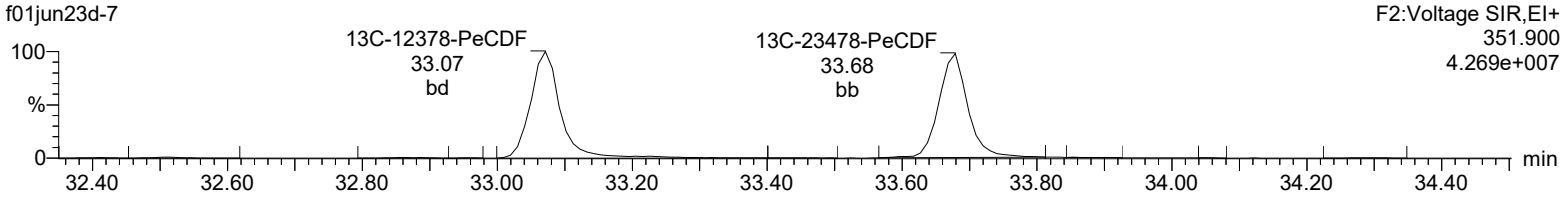
Total-pentafurans



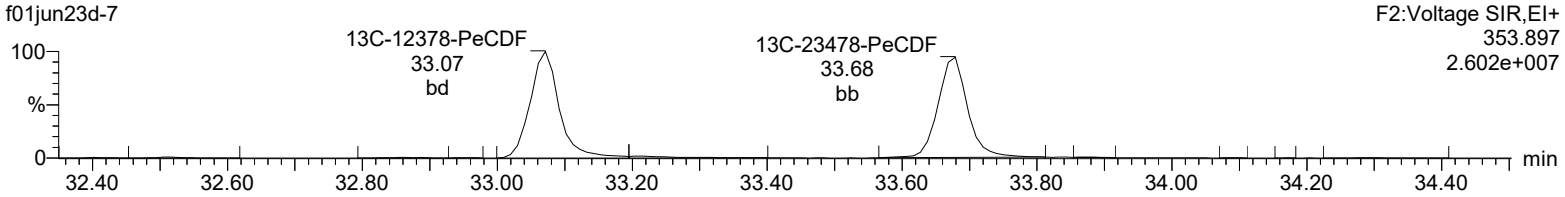
Total-pentafurans



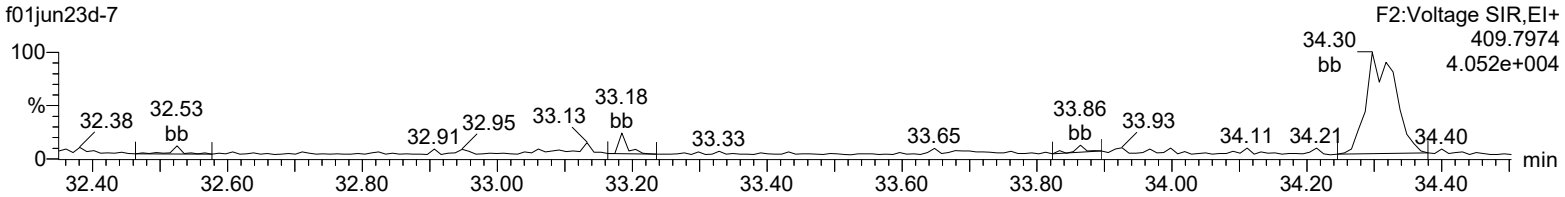
13C-12378-PeCDF



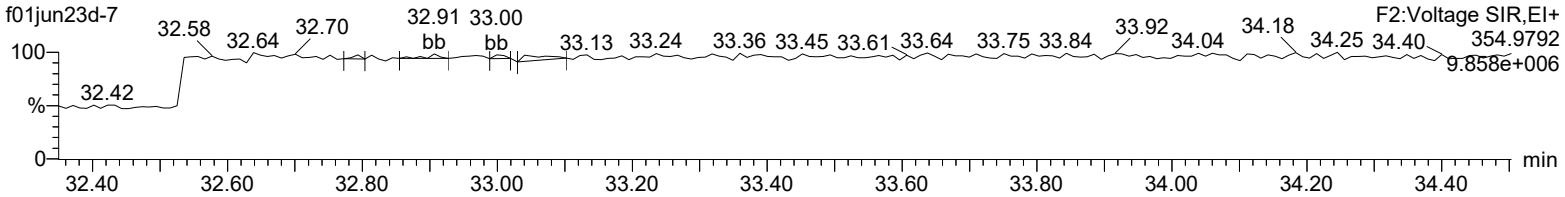
13C-12378-PeCDF



HpDPE



Lock Mass F2



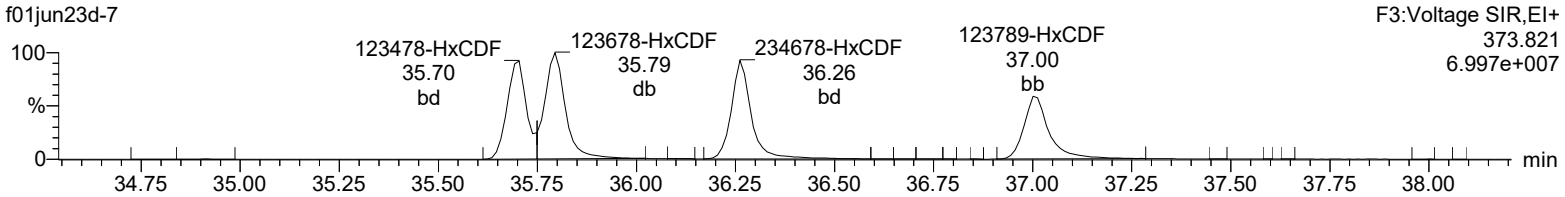
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

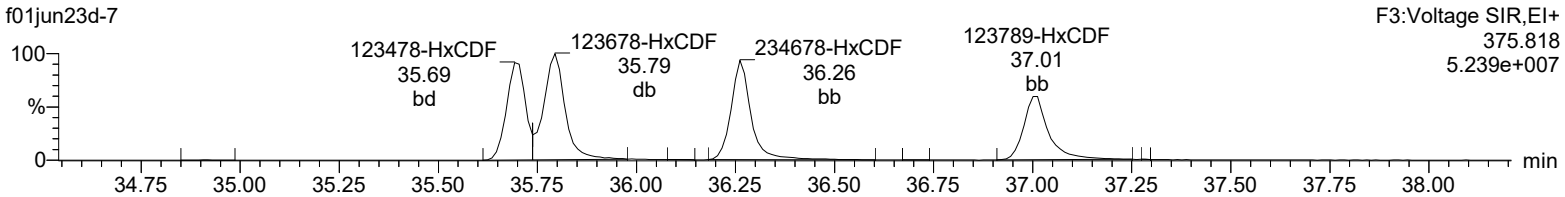
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

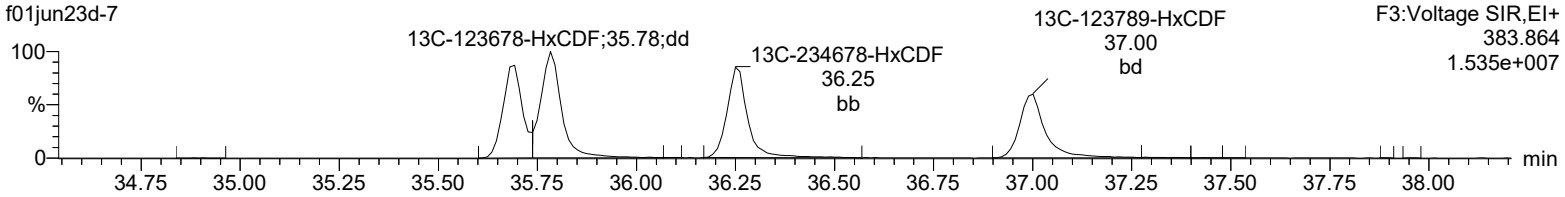
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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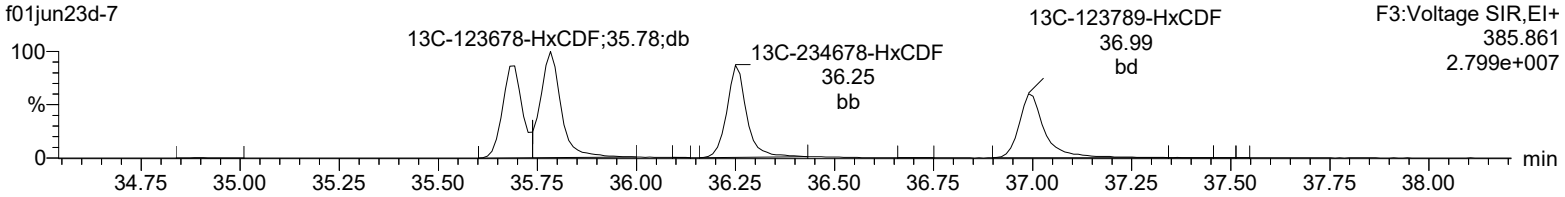
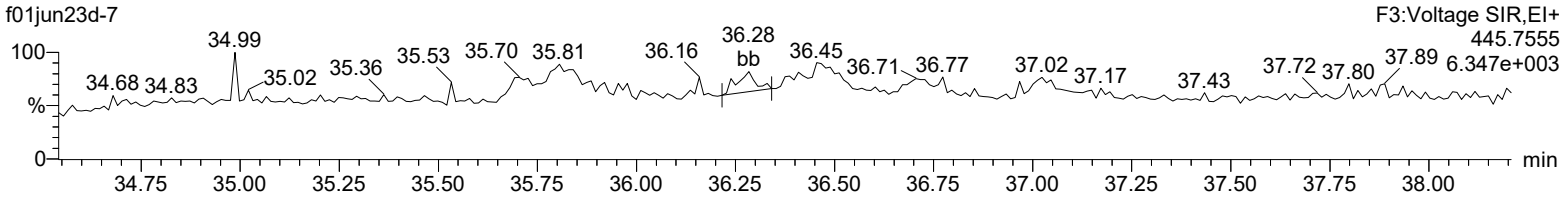
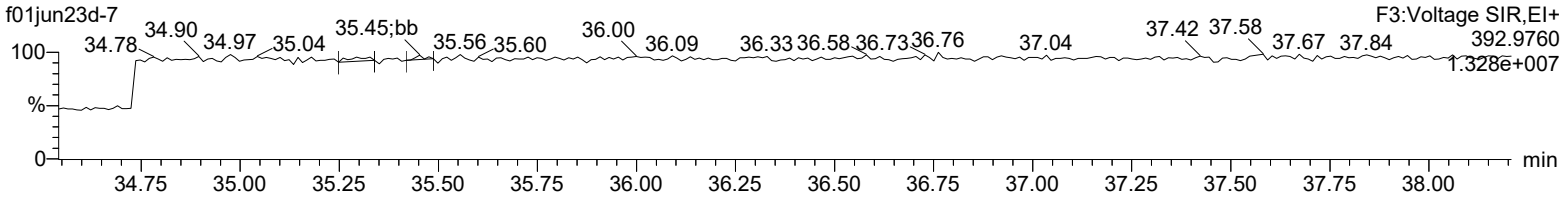


OcDPE



Lock Mass F3



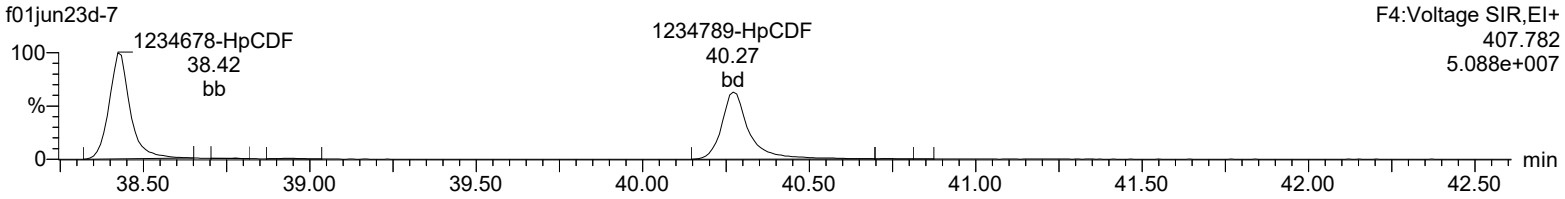
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

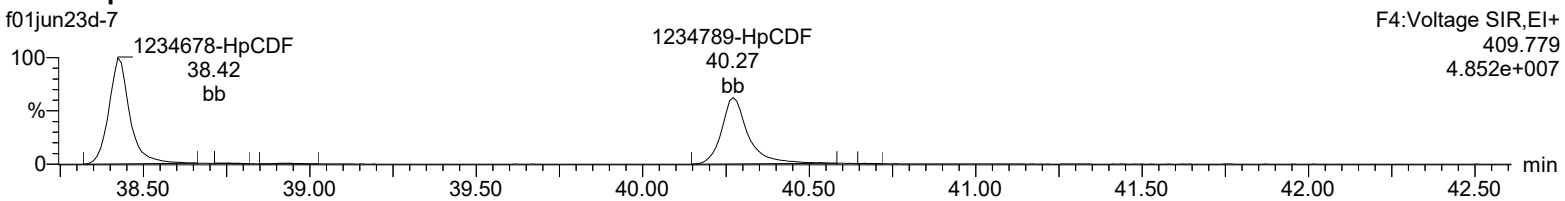
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

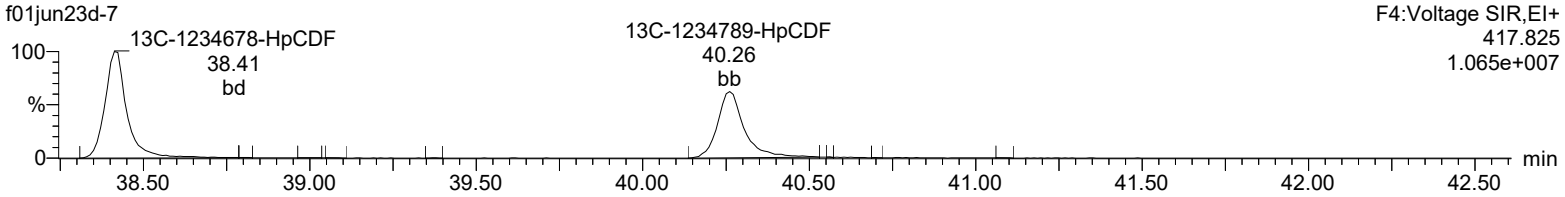
Total-heptafurans



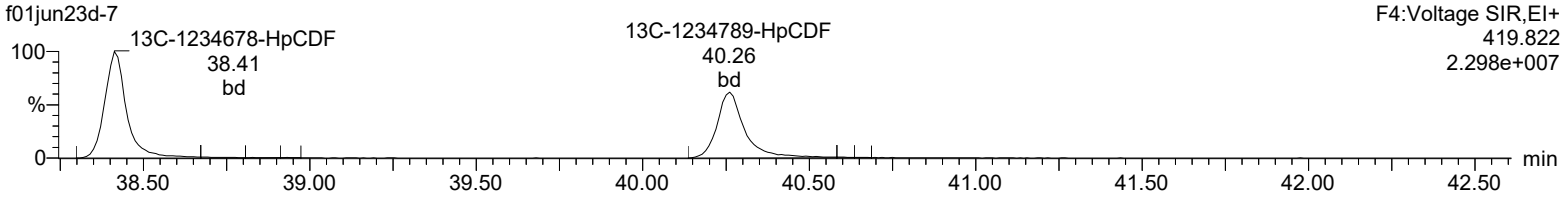
Total-heptafurans



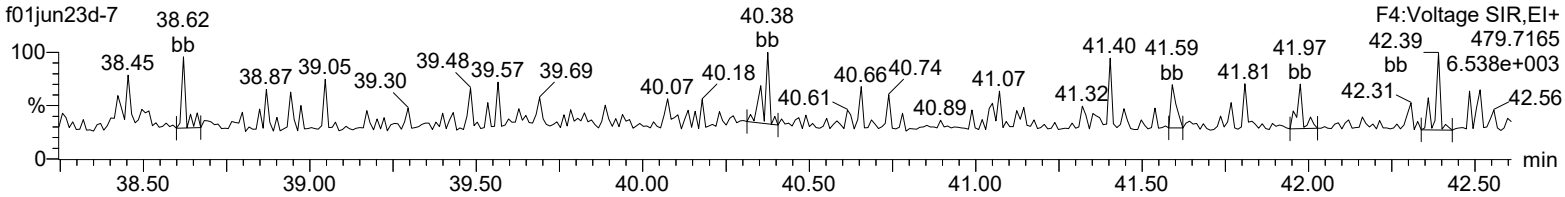
13C-1234678-HpCDF



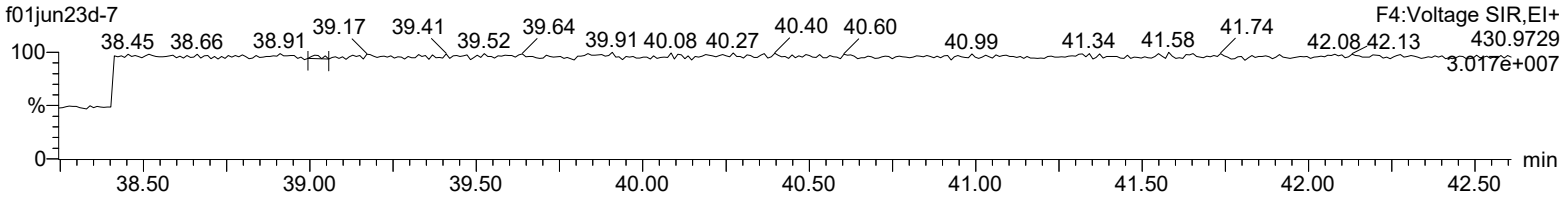
13C-1234678-HpCDF



NoDPE



Lock Mass F4



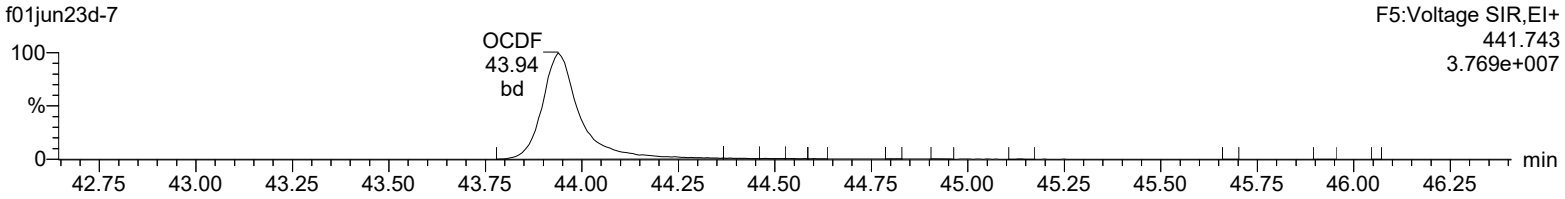
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:38 Eastern Daylight Time

Name: f01jun23d-7, Date: 01-Jun-2023, Time: 23:55:11, ID: CS4 UD220929-08 CS453

OCDF



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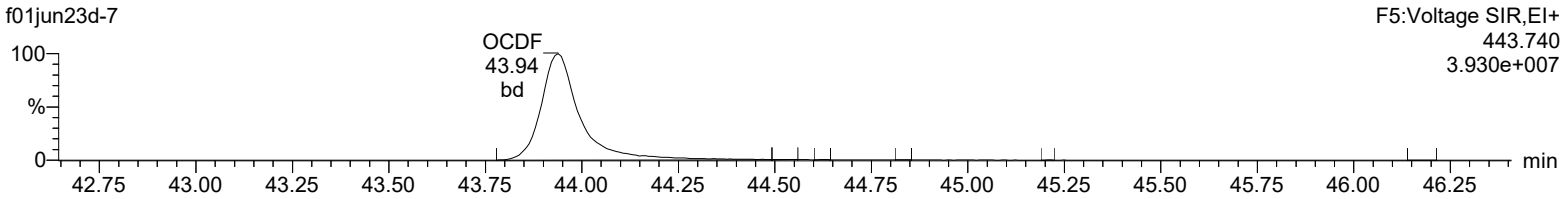
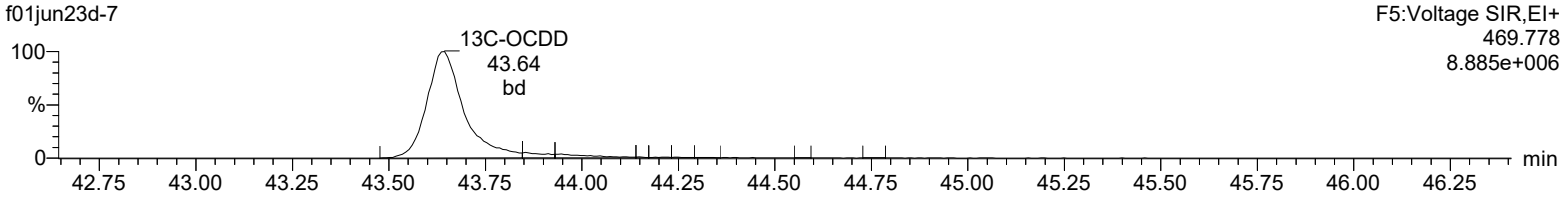


13C-OCDD



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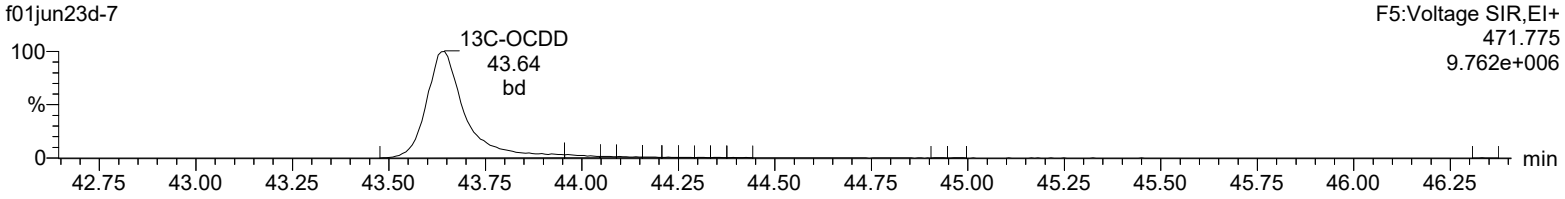
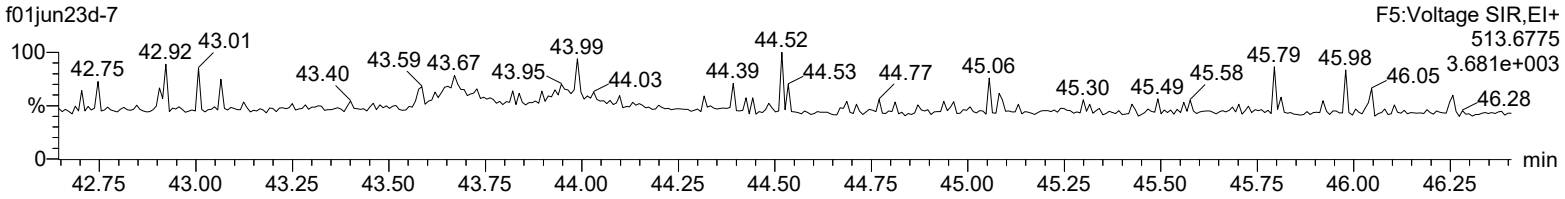
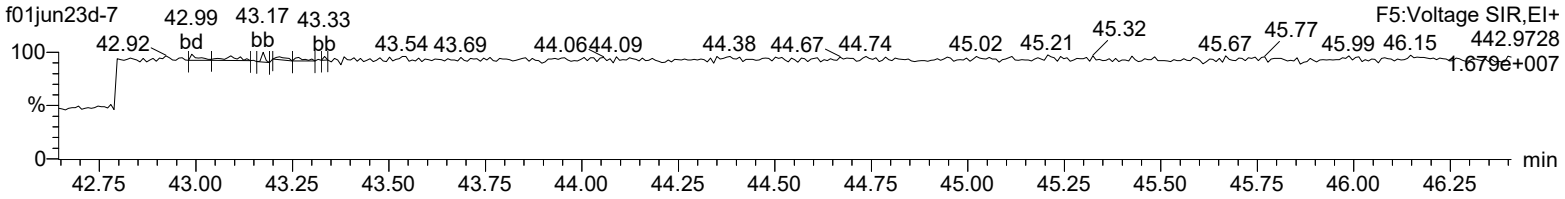


DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:59 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	2.90e6	3.58e6	6.48e6	30.82	1.000	0.81	NO	211.450	1.163	1.100	5.89	0.0788	3.55e7	7018	5061.3	4.45e7	2865	15523.4	bb	bb
2	12378-PeCDD	1.56e7	9.71e6	2.53e7	33.86	1.000	1.61	NO	1028.146	1.197	1.164	4.32	0.240	3.43e8	19365	17727.0	2.11e8	23323	9048.2	bb	bb
3	123478-HxCDD	1.16e7	9.05e6	2.07e7	36.39	1.000	1.28	NO	1037.193	1.112	1.073	4.27	0.336	2.16e8	22125	9746.4	1.68e8	18210	9217.4	bd	bd
4	123678-HxCDD	1.36e7	1.06e7	2.42e7	36.47	1.000	1.28	NO	1052.031	1.120	1.064	5.73	0.316	2.28e8	22125	10284.7	1.79e8	18210	9830.0	dd	dd
5	123789-HxCDD	1.27e7	9.94e6	2.27e7	36.69	1.007	1.28	NO	1057.720	1.128	1.066	6.89	0.326	2.05e8	22125	9256.6	1.61e8	18210	8821.9	dd	dd
6	1234678-HpCDD	1.15e7	1.05e7	2.20e7	39.63	1.000	1.09	NO	1042.965	1.281	1.228	7.21	0.832	1.56e8	41168	3779.4	1.42e8	33961	4179.9	bb	bb
7	OCDD	1.65e7	1.78e7	3.43e7	43.66	1.000	0.92	NO	2107.450	1.167	1.107	6.02	0.986	1.65e8	26864	6125.3	1.78e8	25879	6862.7	bd	bd
8	2378-TCDF	5.35e6	6.50e6	1.18e7	29.91	1.000	0.82	NO	211.795	1.432	1.352	4.83	0.123	5.40e7	11795	4582.3	6.59e7	11684	5638.7	bb	bb
9	12378-PeCDF	3.73e7	2.28e7	6.00e7	33.07	1.000	1.64	NO	1097.924	1.399	1.274	6.94	0.347	7.91e8	77219	10245.2	4.83e8	59248	8154.7	bd	bb
10	23478-PeCDF	3.83e7	2.34e7	6.17e7	33.68	1.000	1.63	NO	1037.829	1.447	1.394	4.15	0.314	8.17e8	77219	10574.5	5.03e8	59248	8490.1	bb	bb
11	123478-HxCDF	2.39e7	1.82e7	4.20e7	35.69	1.000	1.31	NO	1055.767	1.497	1.418	4.11	0.317	4.61e8	48330	9536.7	3.51e8	34375	10204.7	bd	bd
12	123678-HxCDF	2.66e7	2.02e7	4.69e7	35.78	1.000	1.32	NO	1039.777	1.433	1.378	4.15	0.317	4.80e8	48330	9931.0	3.70e8	34375	10771.1	db	db
13	234678-HxCDF	2.46e7	1.85e7	4.31e7	36.26	1.000	1.33	NO	1062.737	1.511	1.422	5.96	0.361	4.24e8	48330	8765.5	3.18e8	34375	9257.0	bd	bd
14	123789-HxCDF	2.01e7	1.53e7	3.53e7	37.00	1.000	1.32	NO	1070.509	1.394	1.302	5.43	0.489	3.13e8	48330	6468.9	2.39e8	34375	6951.1	bb	bb
15	1234678-HpCDF	2.41e7	2.26e7	4.67e7	38.42	1.000	1.07	NO	1060.446	1.468	1.384	4.56	0.625	3.66e8	73371	4988.6	3.40e8	63822	5323.3	bb	bb
16	1234789-HpCDF	1.96e7	1.81e7	3.77e7	40.26	1.000	1.09	NO	1077.434	1.469	1.364	8.52	0.952	2.45e8	73371	3335.8	2.26e8	63822	3534.1	bb	bb
17	OCDF	2.93e7	3.14e7	6.07e7	43.95	1.007	0.94	NO	2356.775	2.065	1.752	16.82	0.836	3.06e8	30372	10059.4	3.26e8	40358	8088.1	bb	bb
18	13C-2378-TCDD	1.24e6	1.55e6	2.79e6	30.81	1.023	0.80	NO	105.346	1.200	1.139	2.81	0.142	1.52e7	7888	1929.5	1.88e7	4876	3848.0	bb	bb
19	13C-12378-PeCDD	1.30e6	8.16e5	2.11e6	33.85	1.124	1.59	NO	111.887	0.910	0.813	6.11	0.210	2.82e7	7462	3776.1	1.79e7	6079	2949.2	bb	bb
20	13C-123478-HxCDD	1.04e6	8.12e5	1.86e6	36.38	0.992	1.29	NO	104.061	0.882	0.847	3.44	0.156	1.89e7	8114	2329.3	1.44e7	6457	2235.5	bd	bd
21	13C-123678-HxCDD	1.22e6	9.45e5	2.16e6	36.46	0.994	1.29	NO	99.911	1.026	1.027	0.98	0.129	2.02e7	8114	2493.2	1.58e7	6457	2449.5	dd	dd
22	13C-1234678-HpCDD	8.92e5	8.23e5	1.71e6	39.62	1.080	1.08	NO	101.759	0.815	0.800	2.20	0.229	1.15e7	11338	1011.8	1.07e7	8880	1200.2	bd	bb
23	13C-OCDD	1.39e6	1.55e6	2.94e6	43.65	1.190	0.90	NO	213.996	0.698	0.653	4.31	0.308	1.37e7	11985	1146.0	1.51e7	10179	1483.2	bd	bd
24	13C-2378-TCDF	1.85e6	2.29e6	4.14e6	29.90	0.993	0.81	NO	102.632	1.780	1.734	1.52	0.103	1.90e7	7480	2538.7	2.34e7	6690	3500.8	bb	bb
25	13C-12378-PeCDF	2.66e6	1.63e6	4.29e6	33.06	1.098	1.63	NO	107.486	1.847	1.719	3.99	0.338	5.73e7	25484	2249.1	3.44e7	20477	1681.6	bb	bd
26	13C-23478-PeCDF	2.67e6	1.60e6	4.26e6	33.67	1.118	1.67	NO	113.296	1.834	1.619	7.01	0.359	5.84e7	25484	2292.7	3.40e7	20477	1659.8	bb	bb
27	13C-123478-HxCDF	9.85e5	1.82e6	2.81e6	35.68	0.973	0.54	NO	103.268	1.333	1.291	3.13	0.200	1.93e7	12559	1540.3	3.58e7	15932	2249.2	bd	bd
28	13C-123678-HxCDF	1.15e6	2.12e6	3.27e6	35.77	0.975	0.54	NO	97.206	1.554	1.598	1.73	0.162	2.00e7	12559	1592.7	3.70e7	15932	2325.3	db	db
29	13C-234678-HxCDF	1.01e6	1.85e6	2.86e6	36.25	0.988	0.55	NO	101.389	1.356	1.338	1.29	0.193	1.71e7	12559	1360.8	3.13e7	15932	1965.8	bd	bd
30	13C-123789-HxCDF	9.17e5	1.62e6	2.53e6	36.99	1.008	0.57	NO	101.119	1.203	1.190	2.59	0.217	1.41e7	12559	1122.7	2.53e7	15932	1588.0	bd	bb

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

Last Altered: Monday, June 05, 2023 15:23:33 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 09:49:59 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553, Job: f01jun23d, User: SM1, Task: HRP722_2, Description:

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	RRF	Mean	RSD	EDL	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.00e6	2.18e6	3.18e6	38.41	1.047	0.46	NO	98.294	1.511	1.537	2.02	0.157	1.50e7	12453	1203.2	3.26e7	14113	2308.3	bb	bb
32	13C-1234789-HpCDF	8.26e5	1.74e6	2.57e6	40.25	1.097	0.47	NO	101.701	1.219	1.198	2.23	0.201	1.02e7	12453	820.0	2.20e7	14113	1562.2	bb	bb
33	13C-1234-TCDD	1.04e6	1.28e6	2.32e6	30.12	0.000	0.81	NO	100.000	1.000	1.000	0.00	0.161	1.06e7	7888	1346.4	1.34e7	4876	2752.4	bb	bb
34	13C-123789-HxCDD	1.17e6	9.34e5	2.11e6	36.68	0.000	1.25	NO	100.000	1.000	1.000	0.00	0.132	1.84e7	8114	2269.4	1.49e7	6457	2306.3	dd	dd
35	37Cl-2378-TCDD	5.79e6		5.79e6	30.82	1.023			221.675	1.246	1.124	6.42	0.0791	7.15e7	7037	10161.9				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

06/06/2023

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

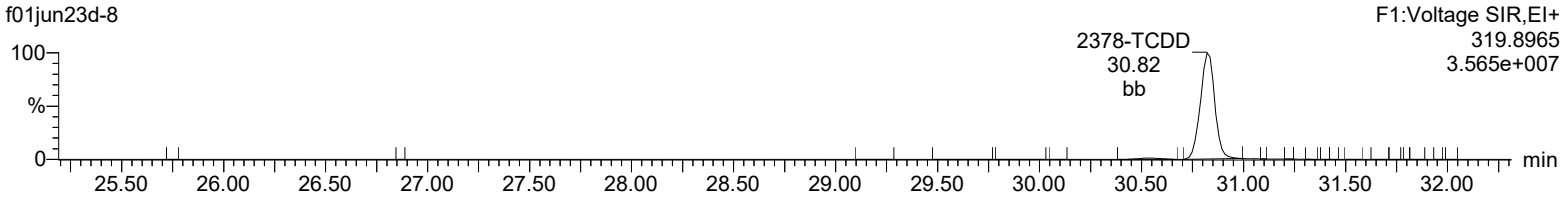
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

06/06/2023

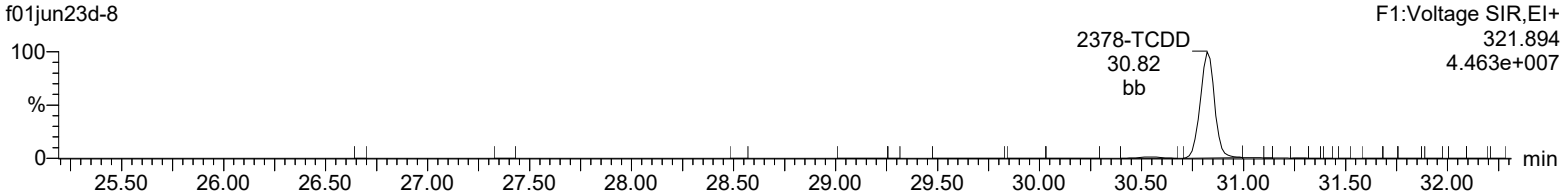
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\Default.pro\Curvedb\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

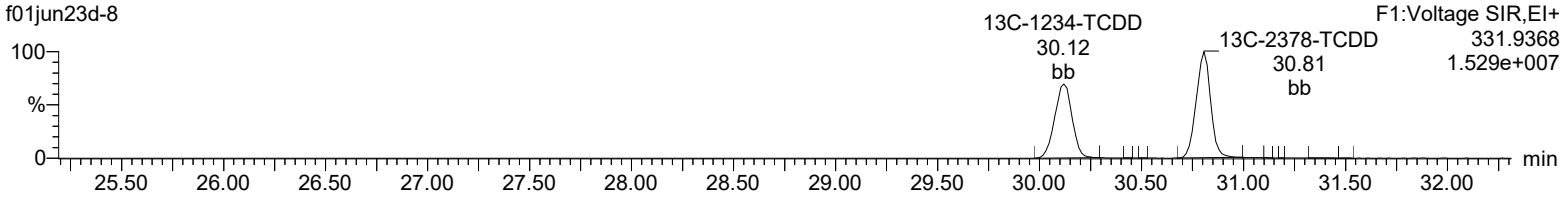
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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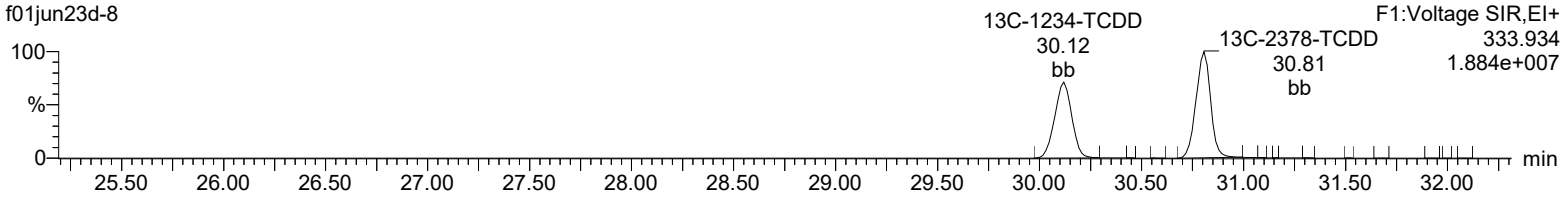

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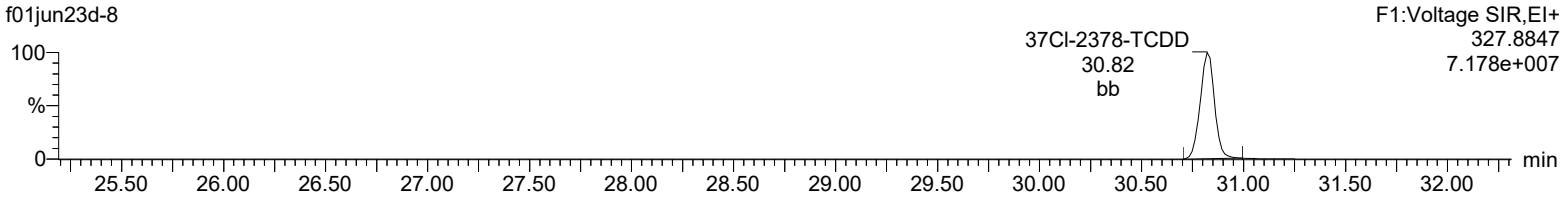
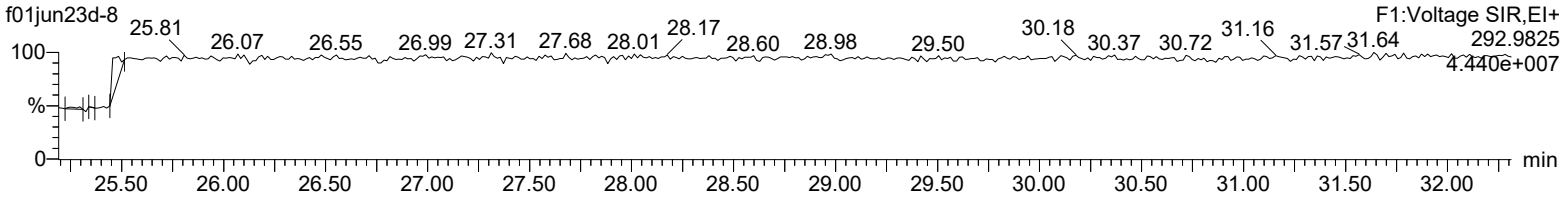


Lock Mass F1



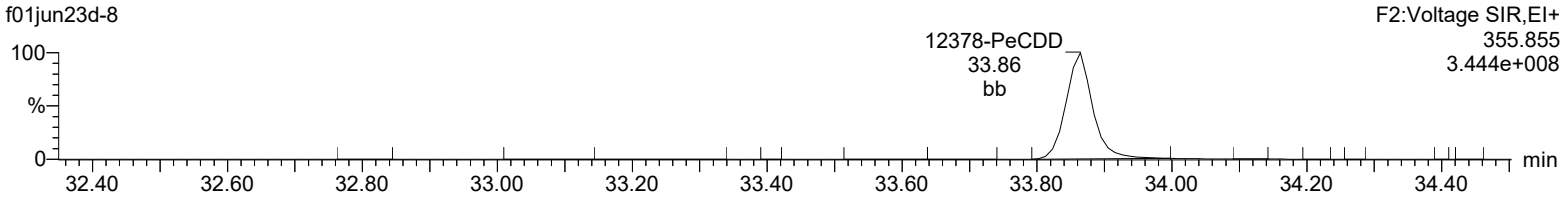
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

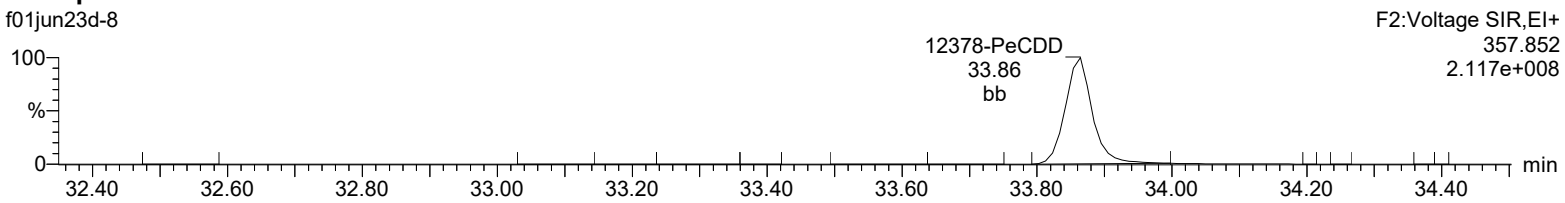
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

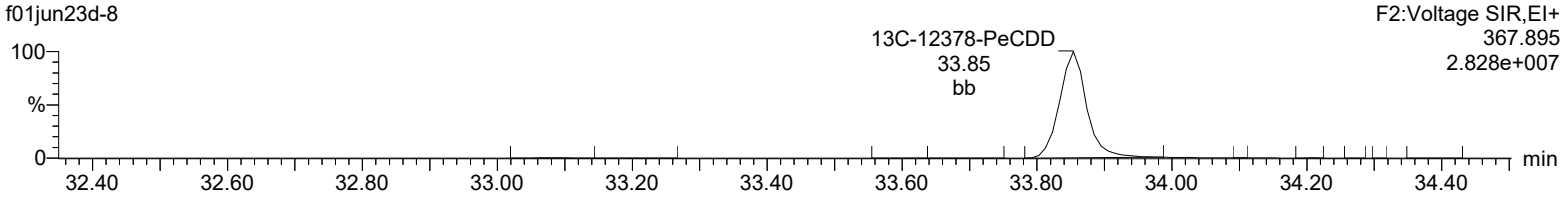
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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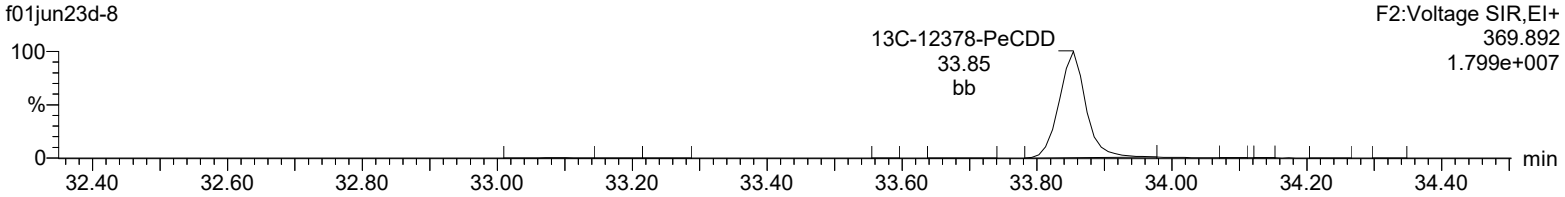
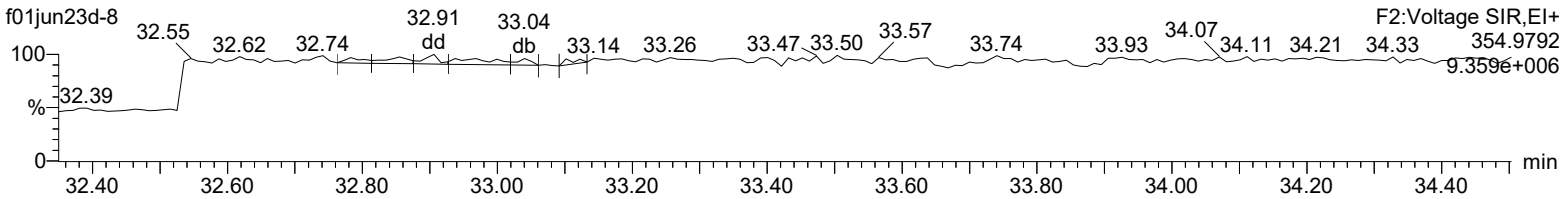


Lock Mass F2



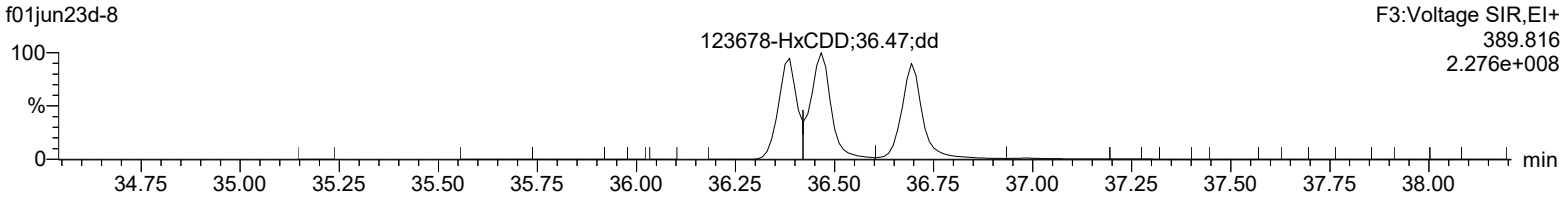
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

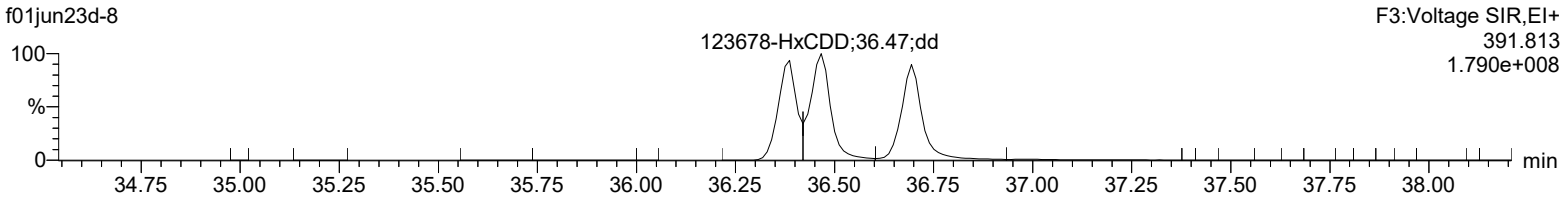
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

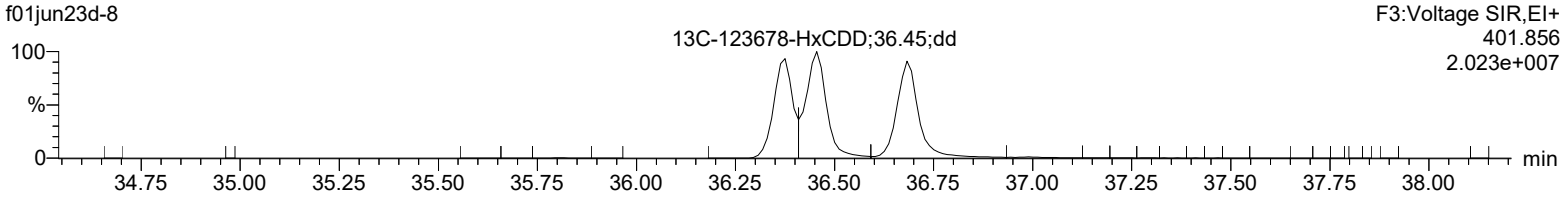
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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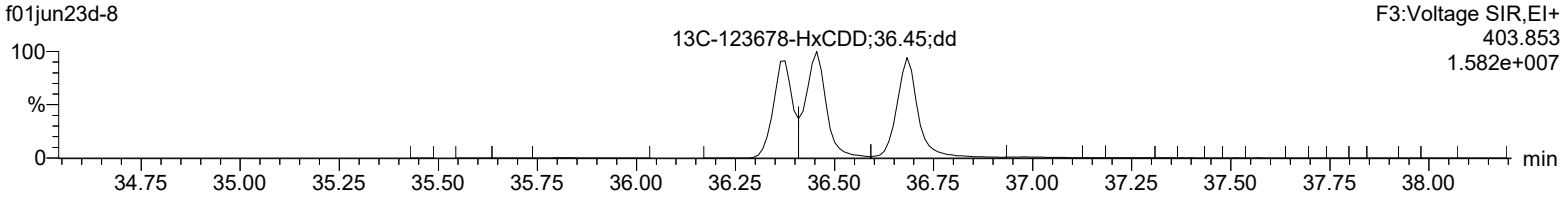
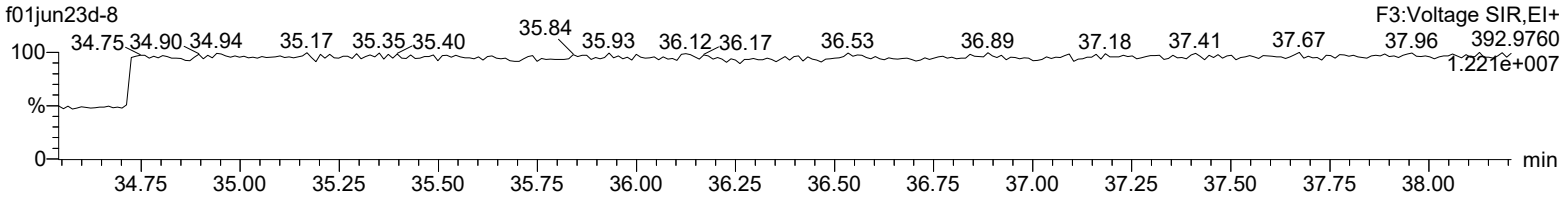


Lock Mass F3



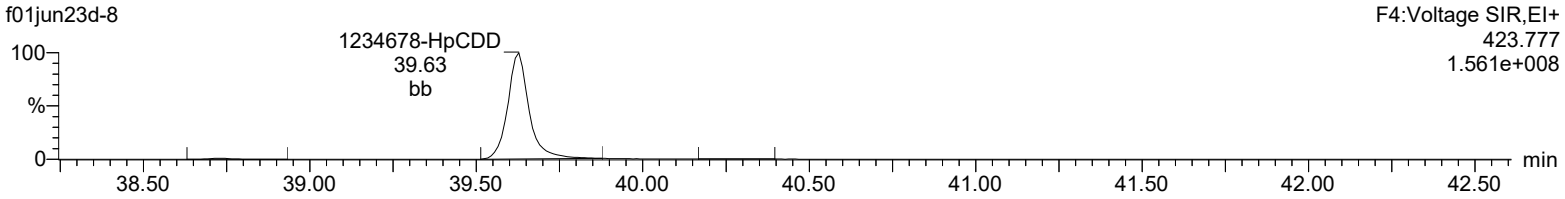
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

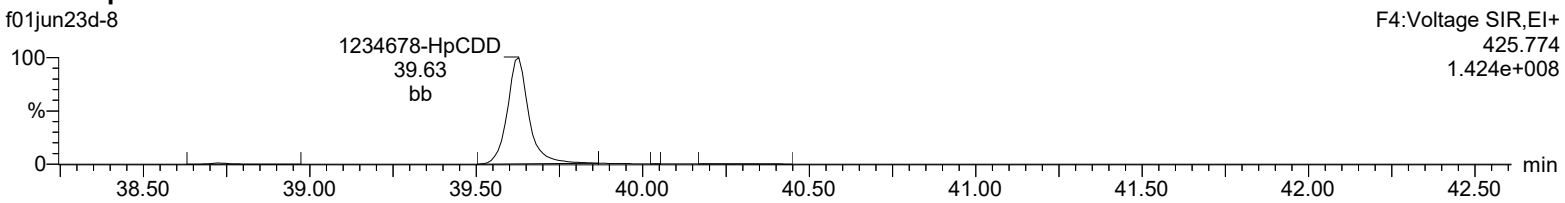
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

Total-heptadioxins



Total-heptadioxins



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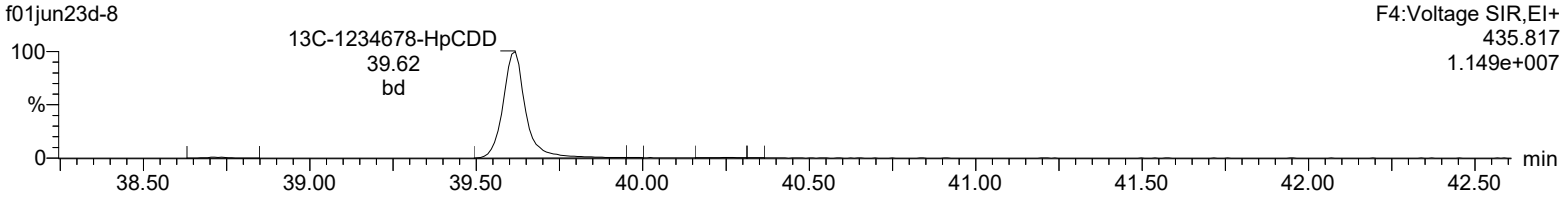

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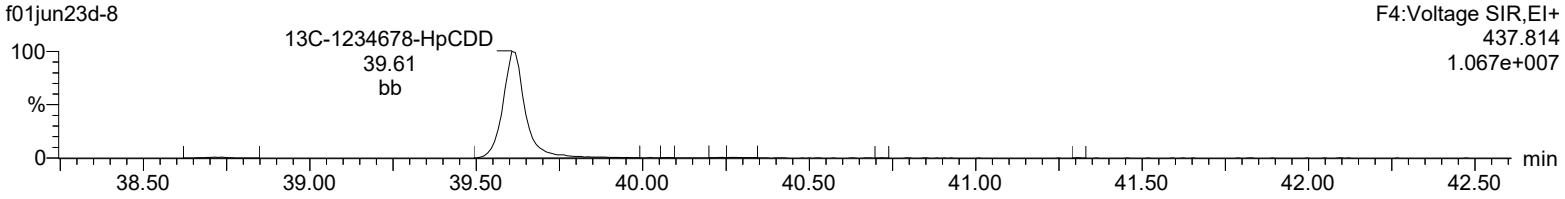
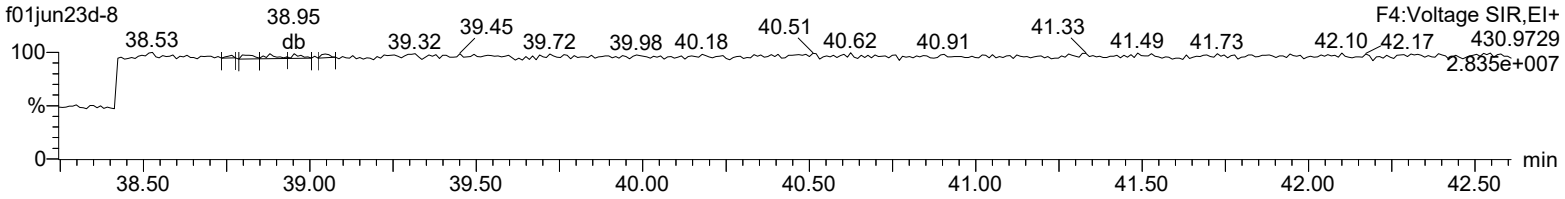


Lock Mass F4



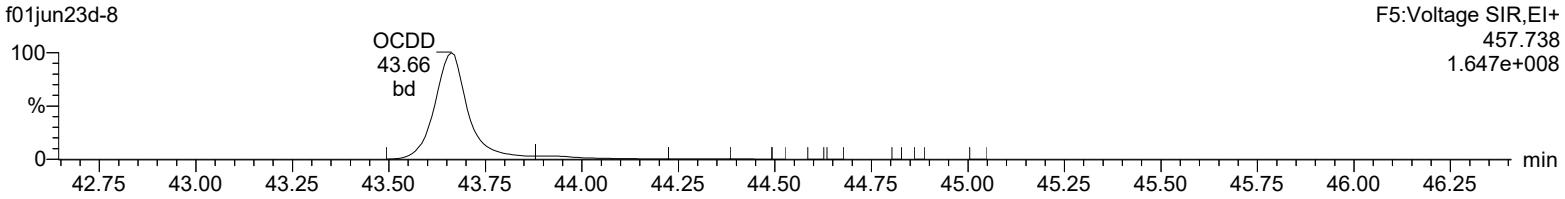
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

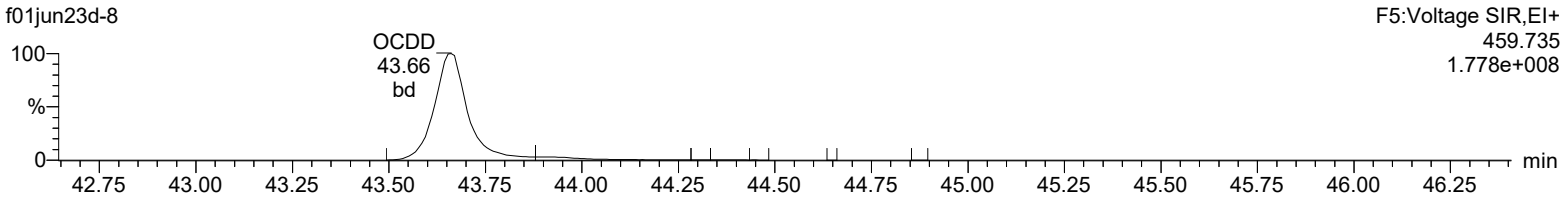
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

OCDD



OCDD



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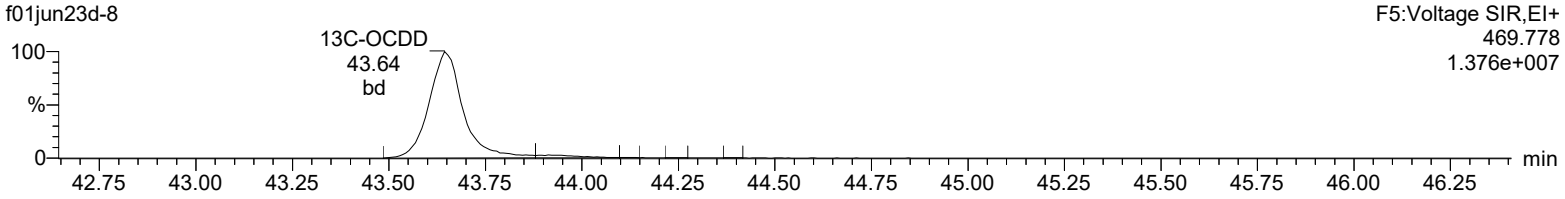
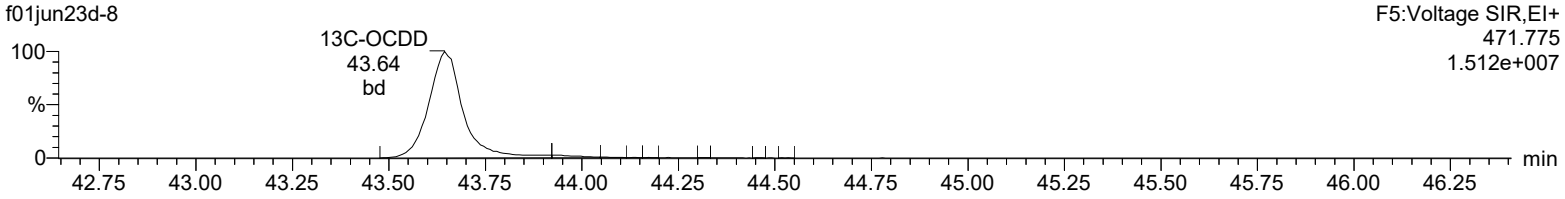
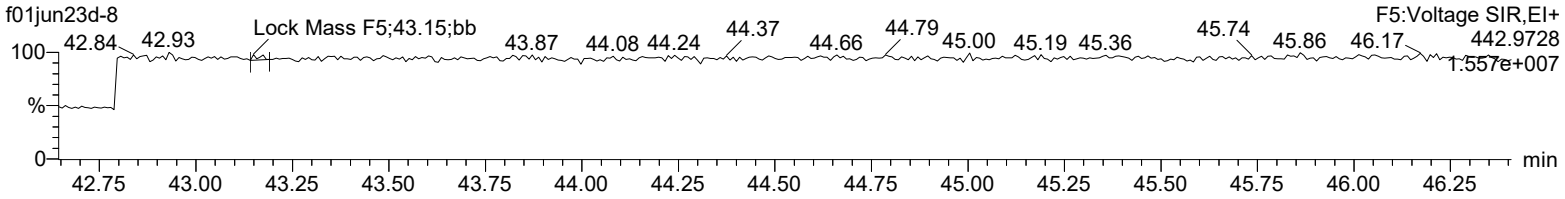


13C-OCDD



Lock Mass F5



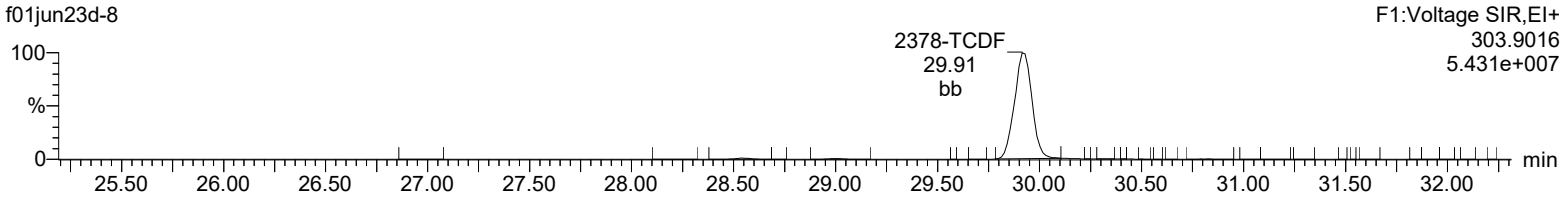
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

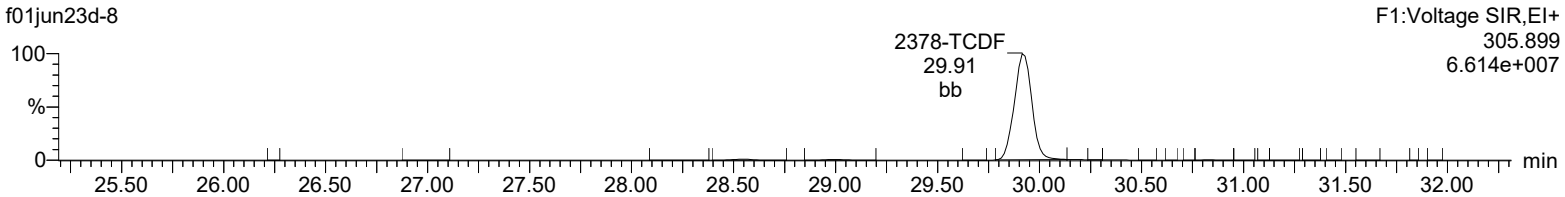
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

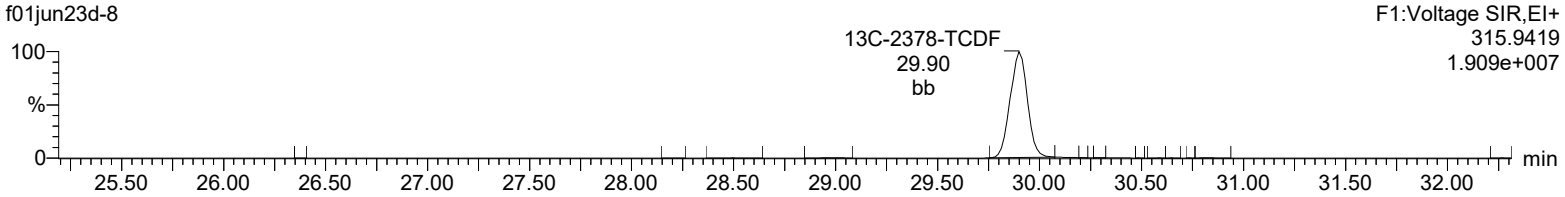
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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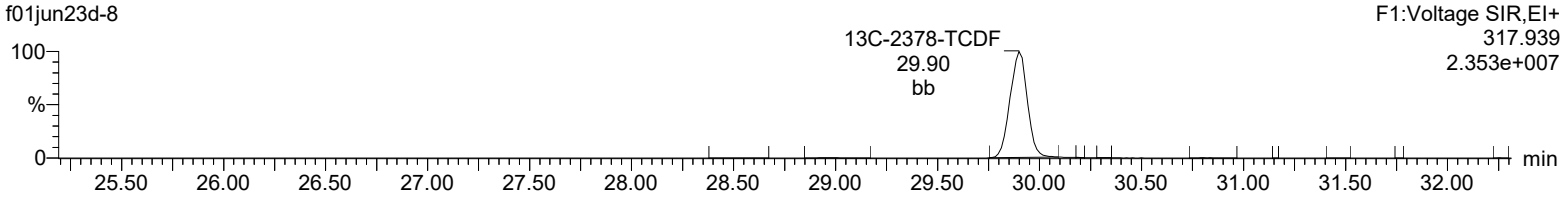
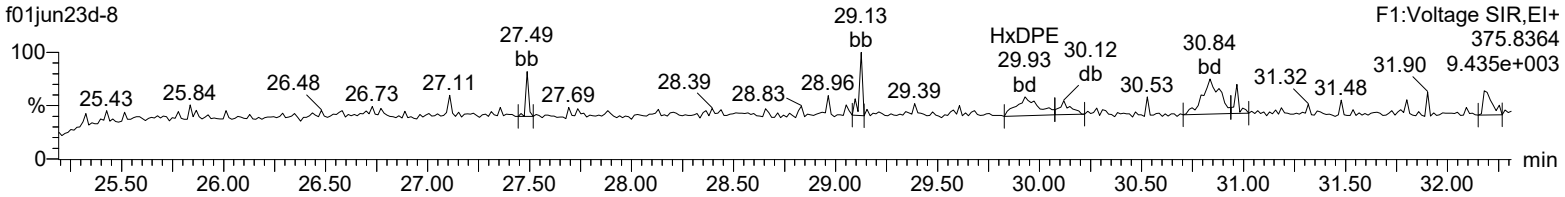
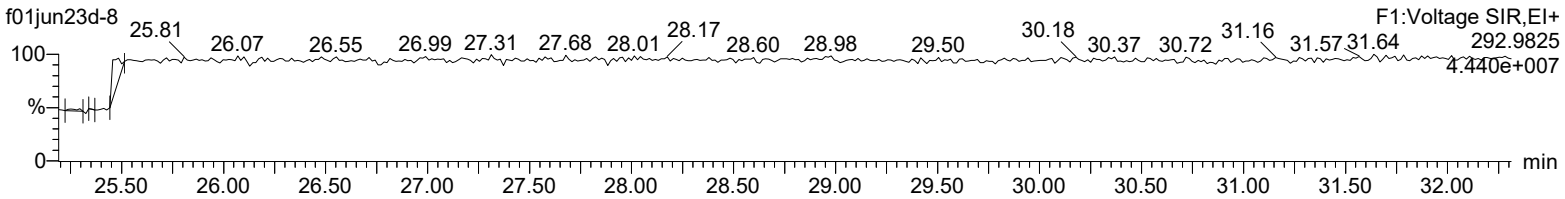


HxDPE



Lock Mass F1



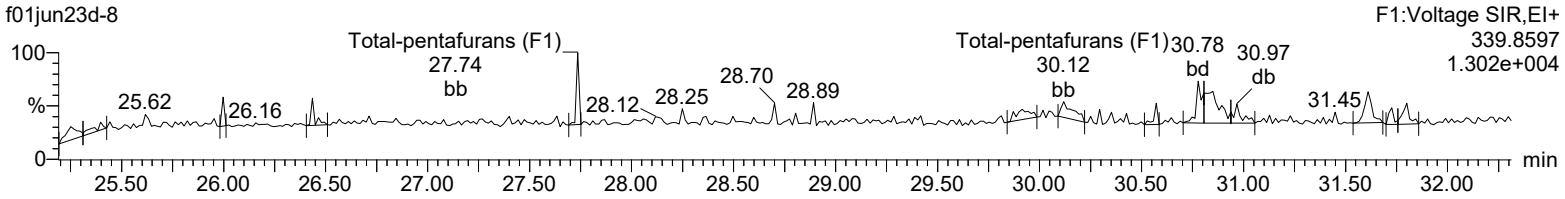
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

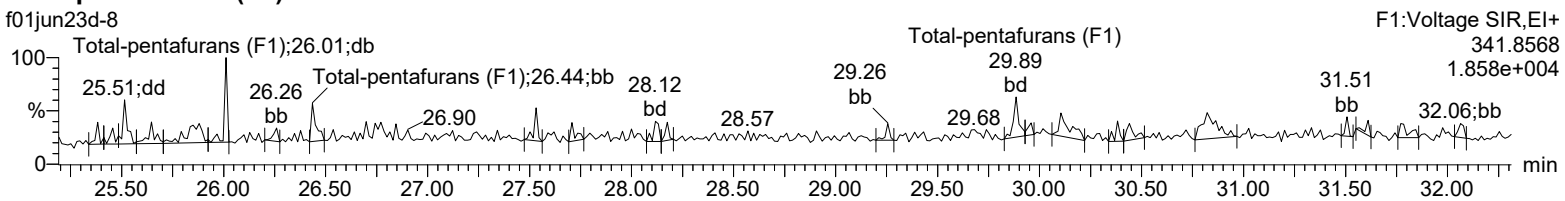
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

Total-pentafurans (F1)



Total-pentafurans (F1)



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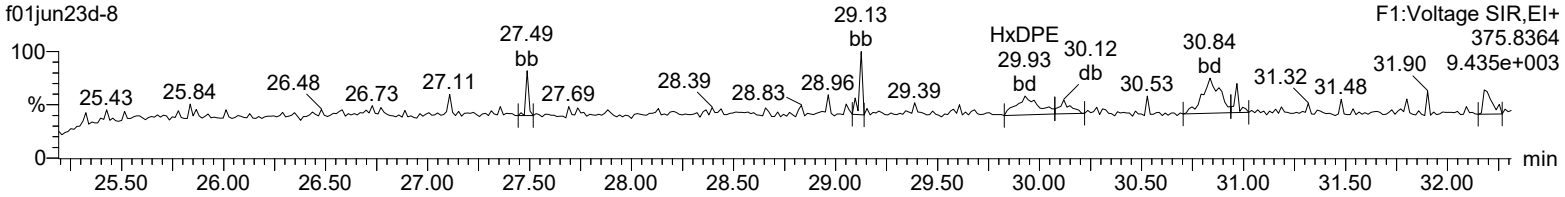
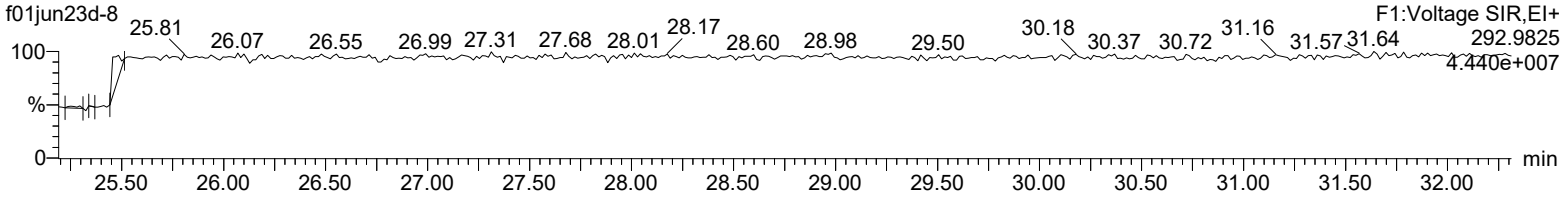


Lock Mass F1



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

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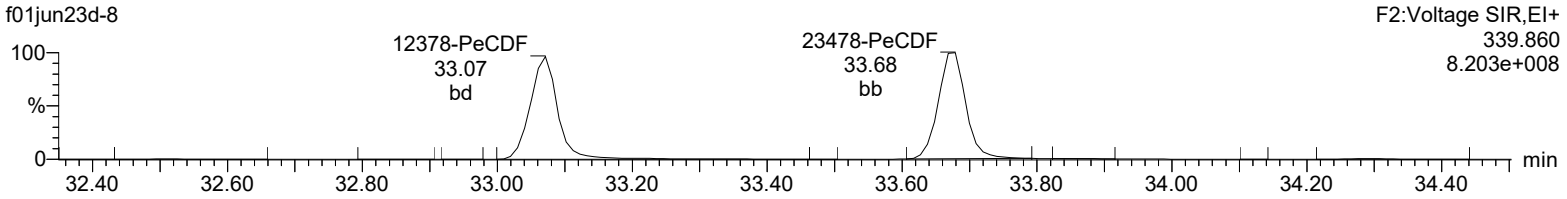
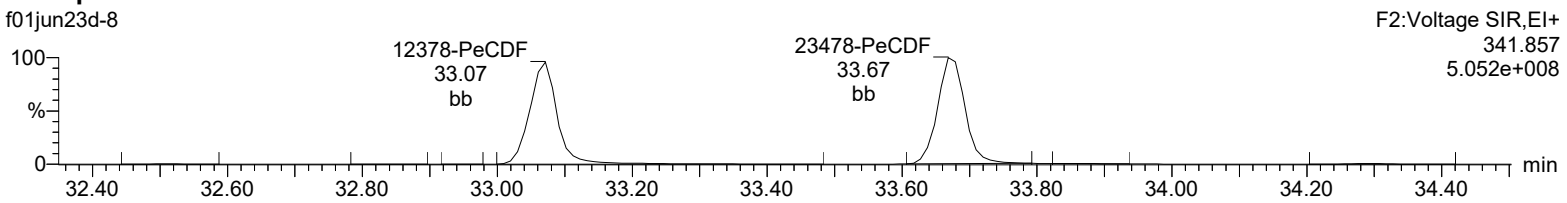
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

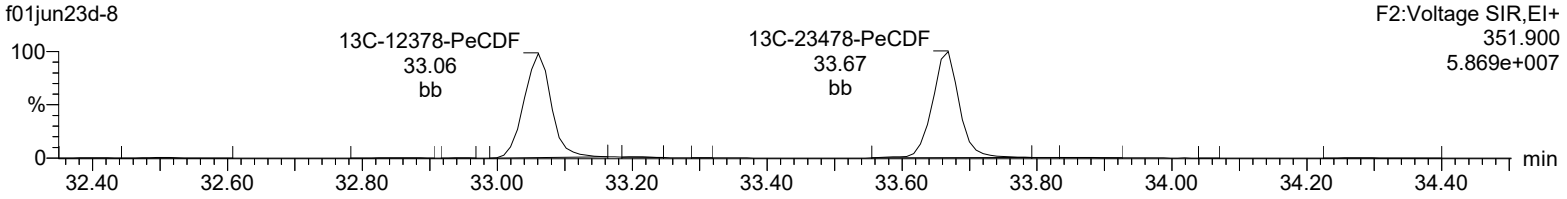
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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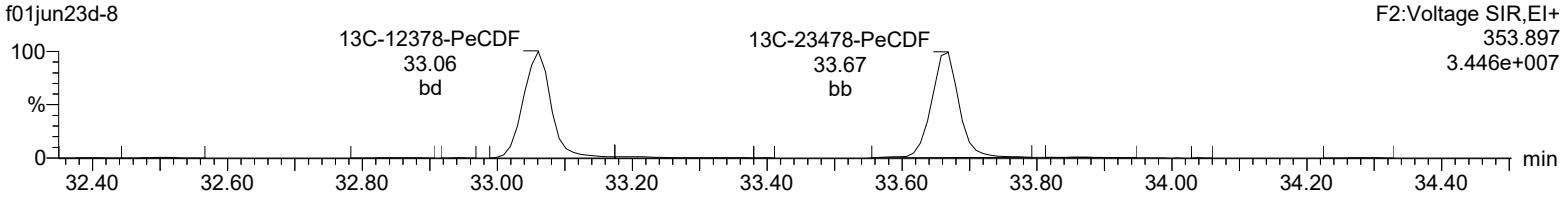
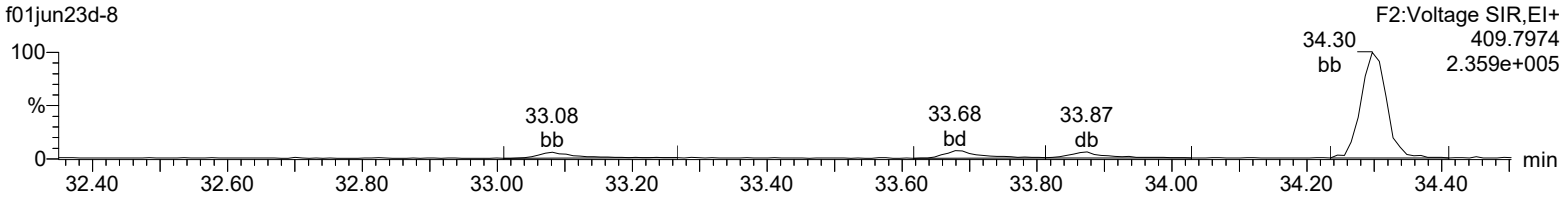
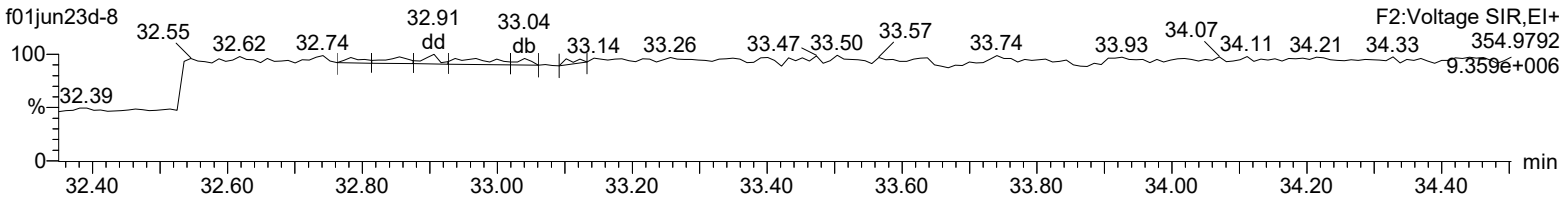


HpDPE



Lock Mass F2



Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

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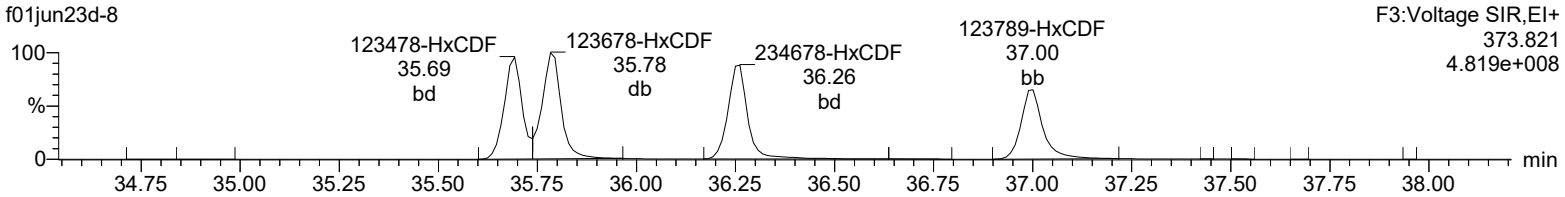
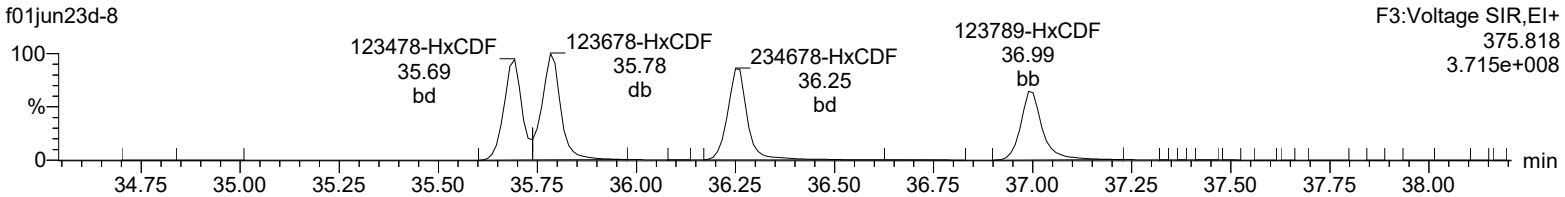
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

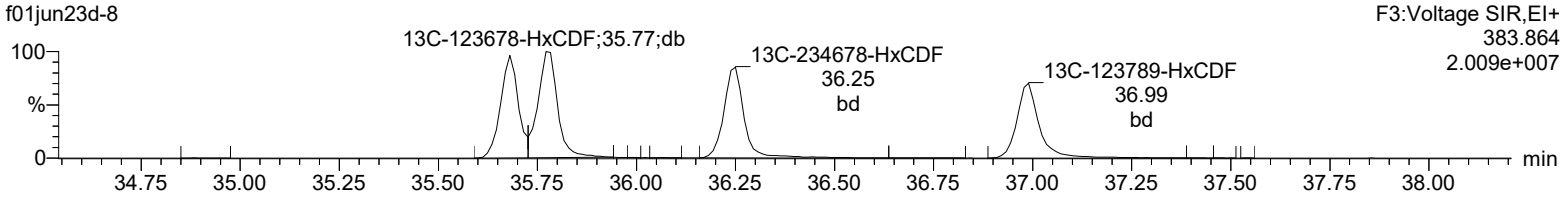
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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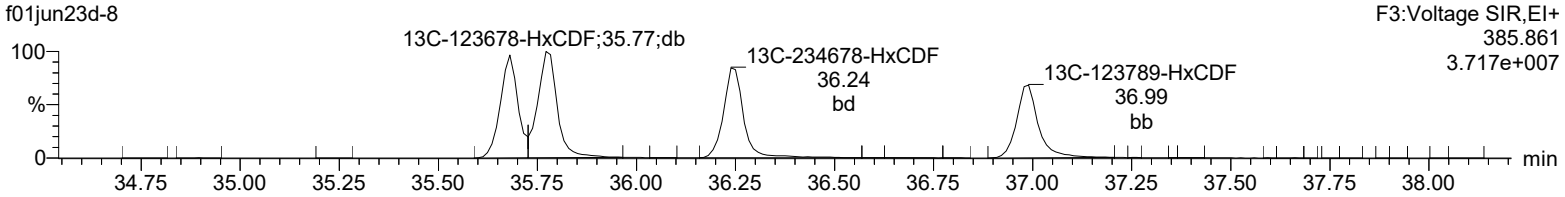

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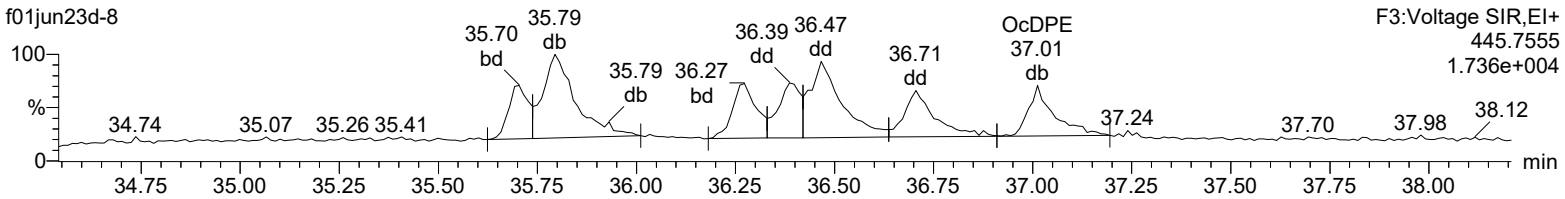
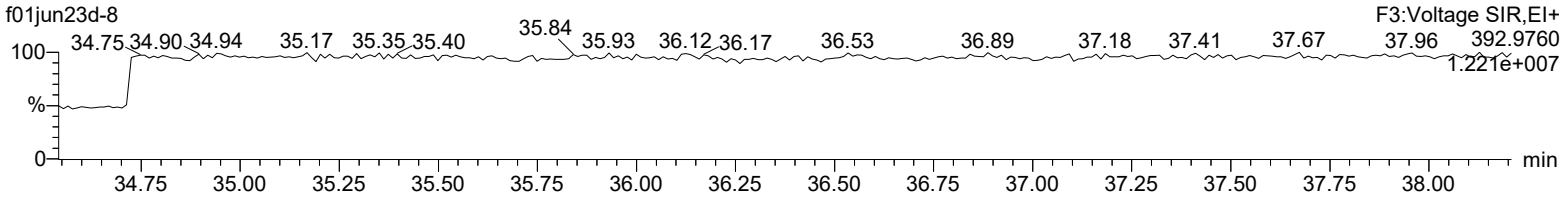


Lock Mass F3



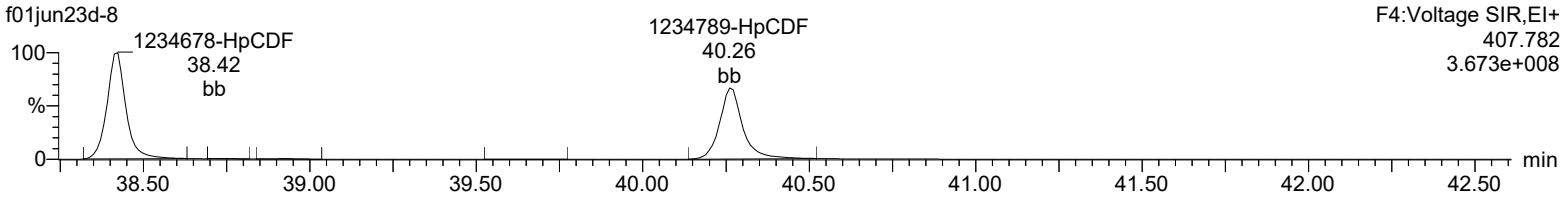
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

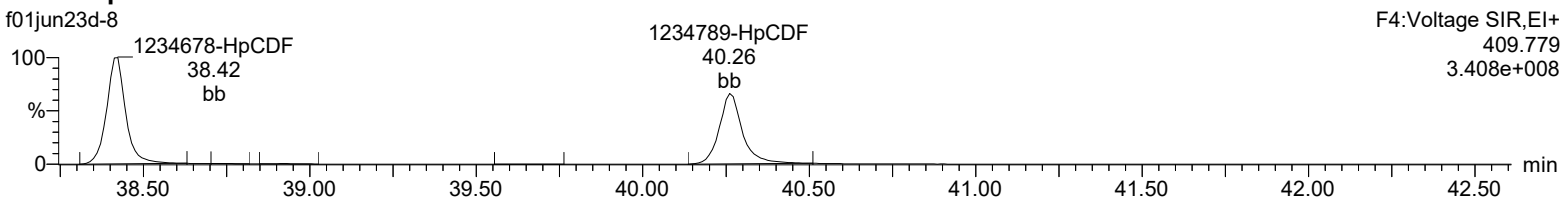
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

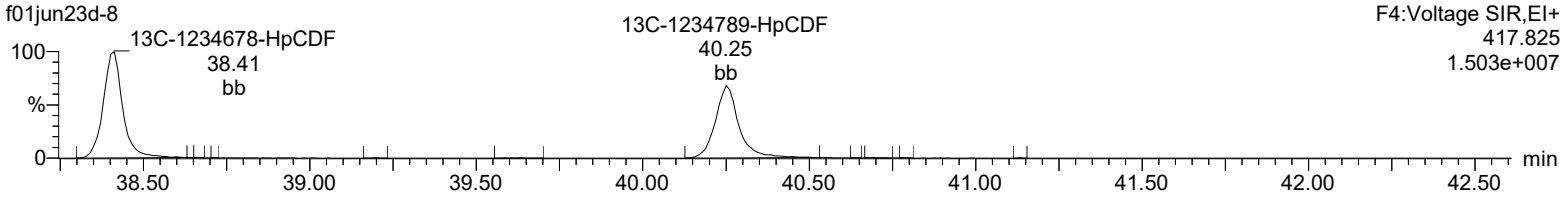
Total-heptafurans



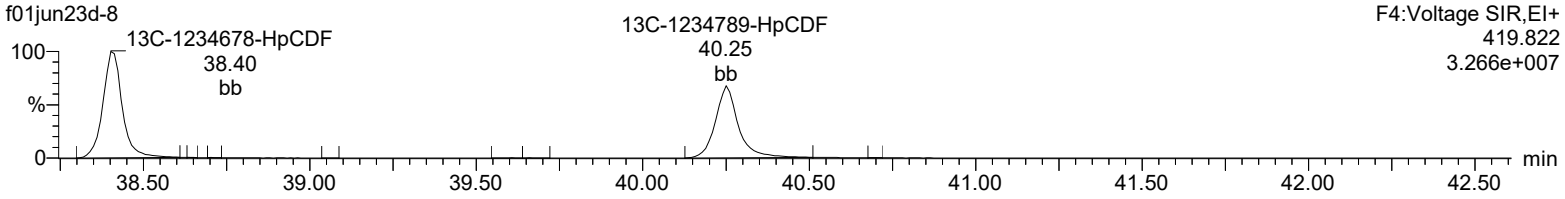
Total-heptafurans



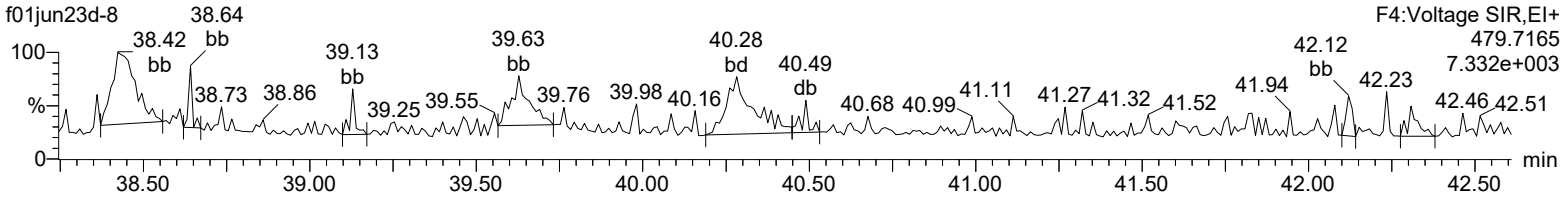
13C-1234678-HpCDF



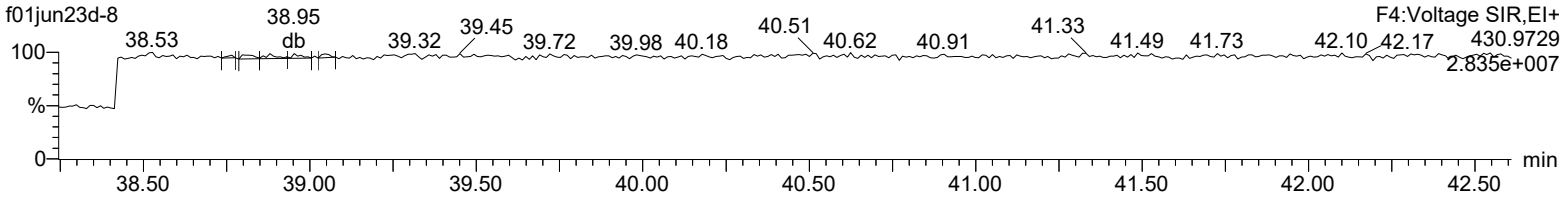
13C-1234678-HpCDF



NoDPE



Lock Mass F4



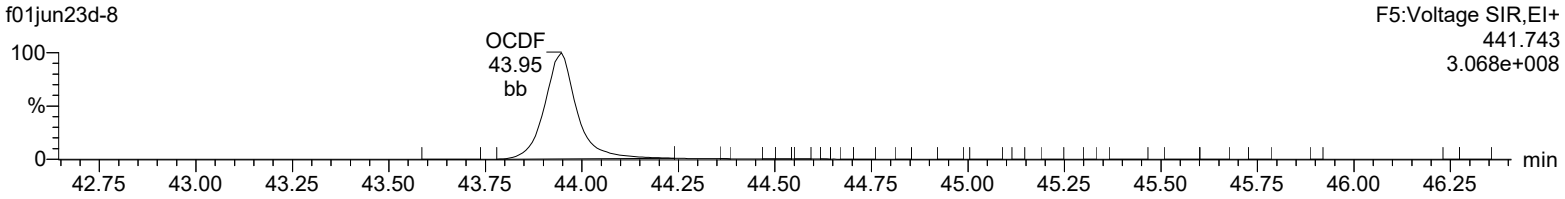
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 ICAL Report

Dataset: C:\MassLynx\Default.pro\ICAL results\1613-f01jun23d.qld

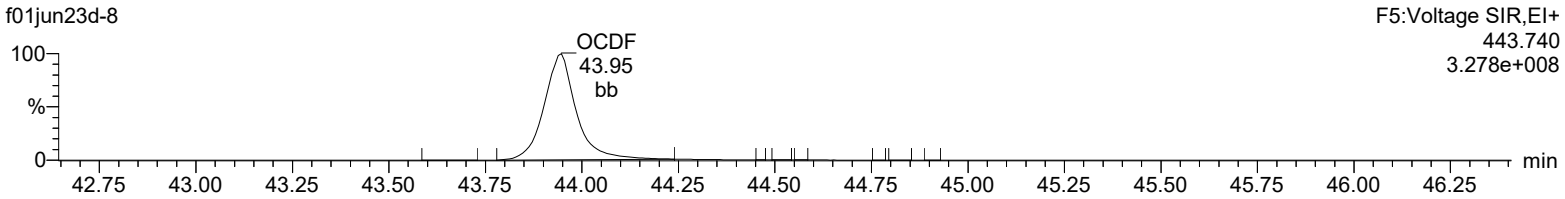
Last Altered: Tuesday, June 06, 2023 12:13:59 Eastern Daylight Time
Printed: Tuesday, June 06, 2023 12:18:52 Eastern Daylight Time

Name: f01jun23d-8, Date: 02-Jun-2023, Time: 00:44:05, ID: CS5 UD220929-09 CS553

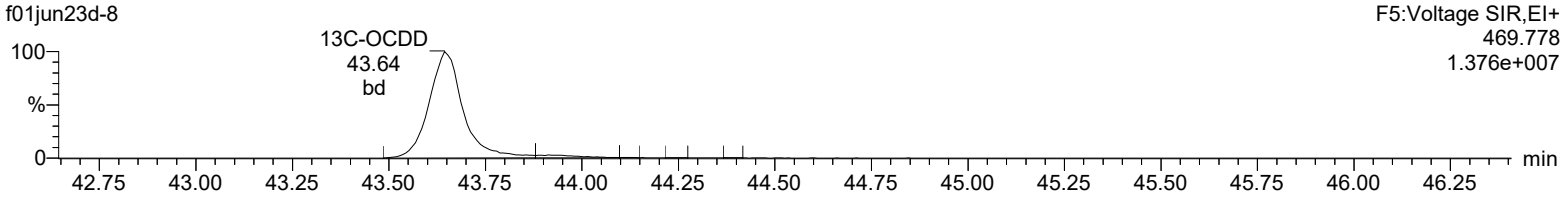
OCDF



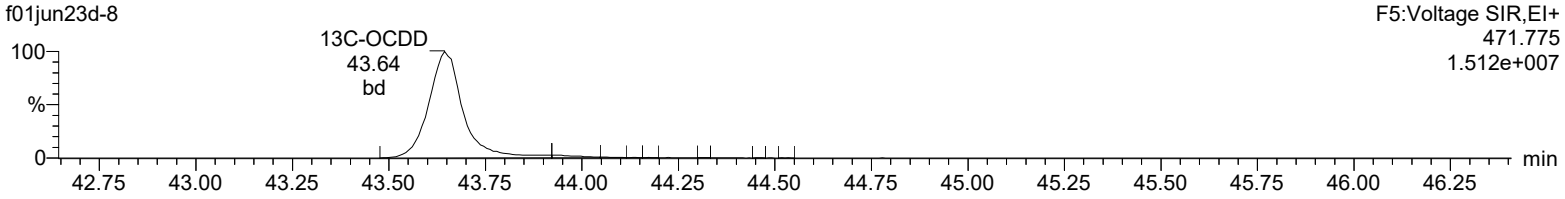
OCDF



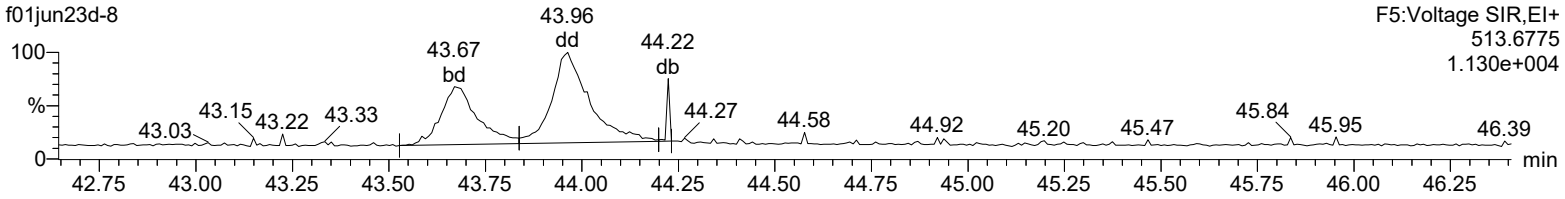
13C-OCDD



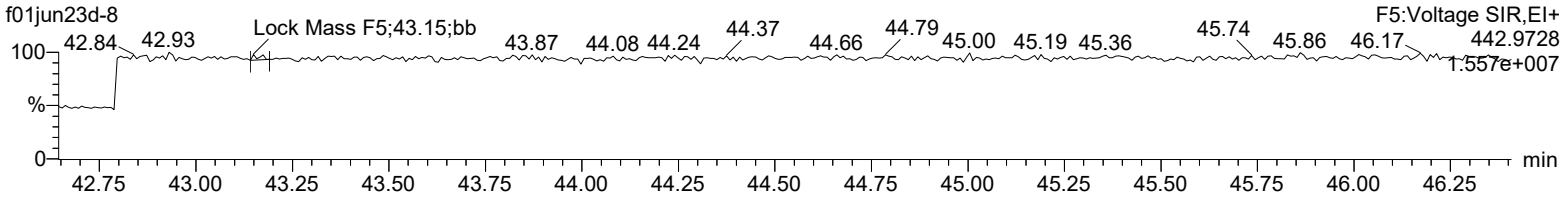
13C-OCDD



DeDPE



Lock Mass F5



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

Method: C:\MassLynx\DEFAULT.PRO\MethDB\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

	Name	RT
1	First TCDF	25.65
2	Last TCDF	31.62
3	First PeCDF	31.60
4	Last PeCDF	34.30
5	First HxCDF	34.77
6	Last HxCDF	37.00
7	First HpCDF	38.42
8	Last HpCDF	40.27
9	OCDF	43.93
10	First TCDD	27.37
11	2378-TCDD	30.82
12	Last TCDD	31.54
13	First PeCDD	32.55
14	Last PeCDD	34.12
15	First HxCDD	35.19
16	Last HxCDD	36.69
17	First HpCDD	38.73
18	Last HpCDD	39.63
19	OCDD	43.66

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/02/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

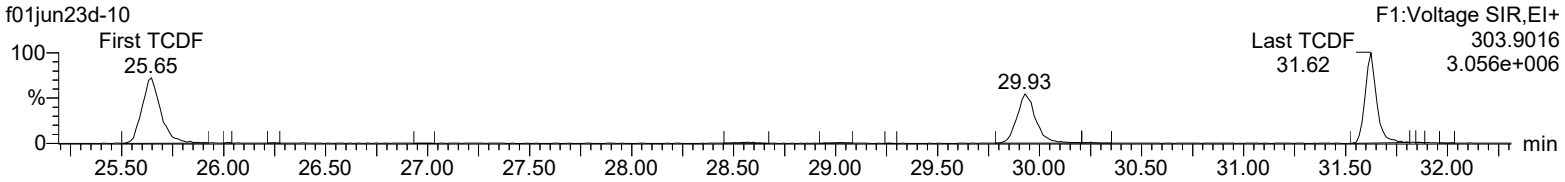
Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

06/02/2023

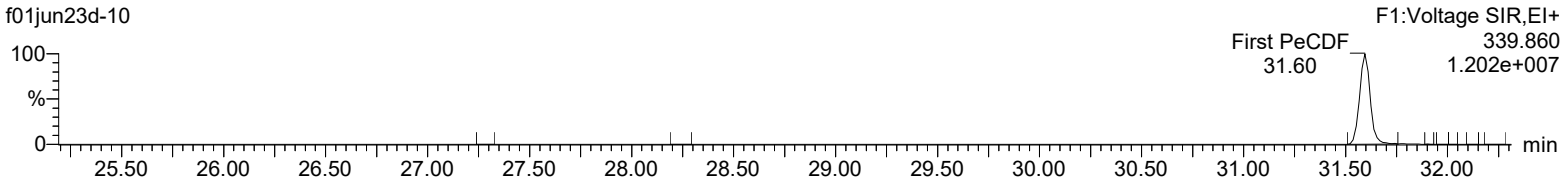
Method: C:\MassLynx\DEFAULT.PRO\MethDB\WDM_f01jun23.mdb 02 Jun 2023 12:38:10
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

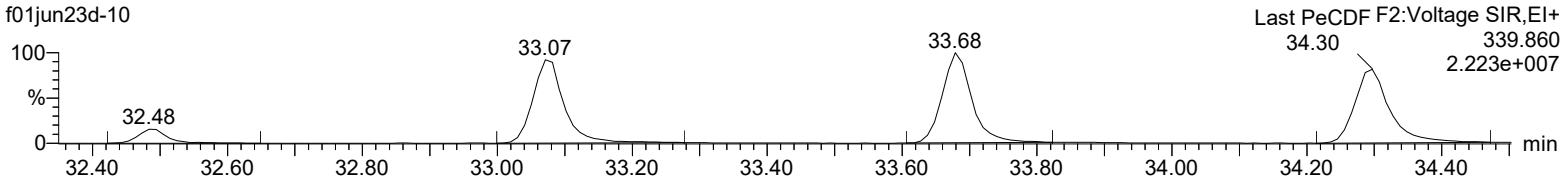
First TCDF



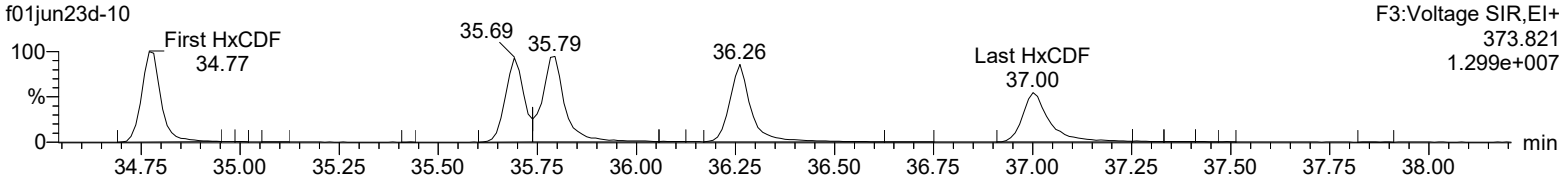
First PeCDF



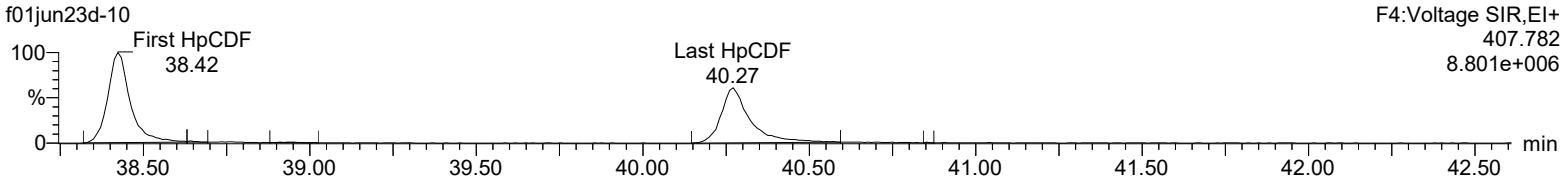
Last PeCDF



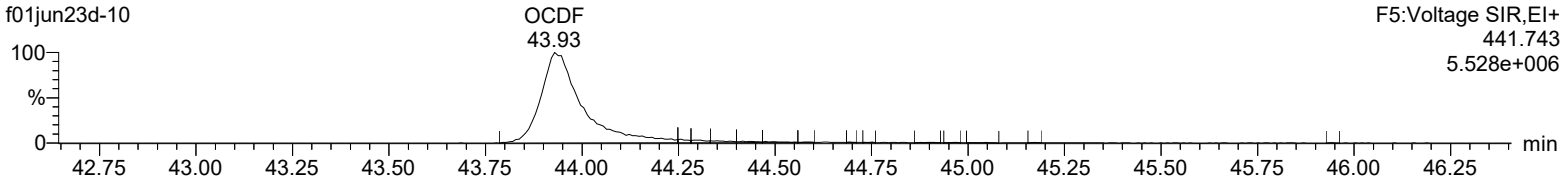
First HxCDF



First HpCDF



OCDF



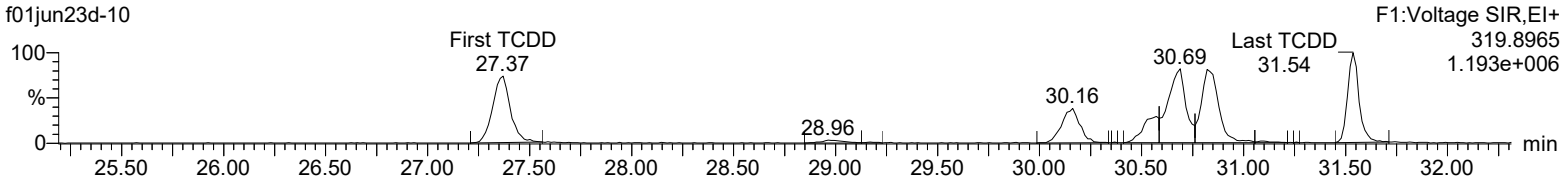
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f01jun23d-10.qld

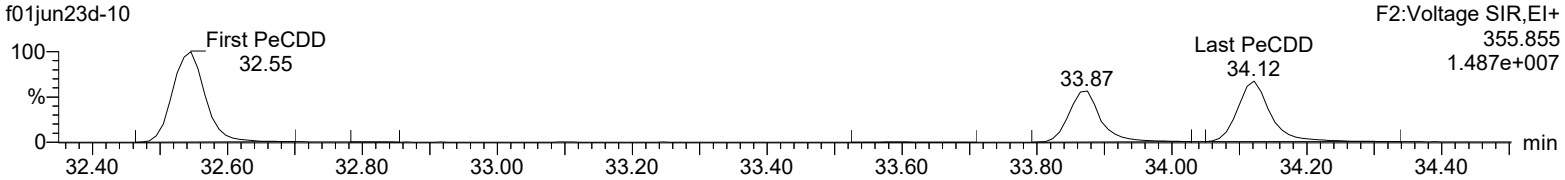
Last Altered: Friday, June 02, 2023 12:42:10 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:43:19 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

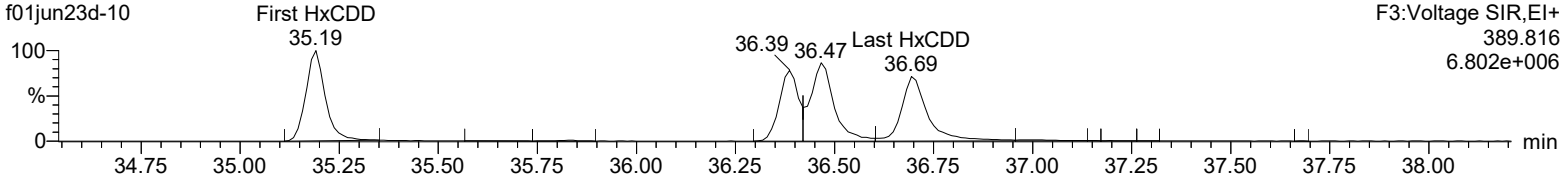
First TCDD



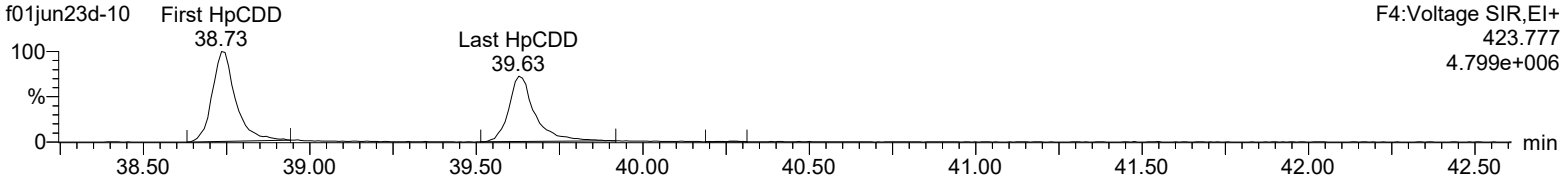
First PeCDD



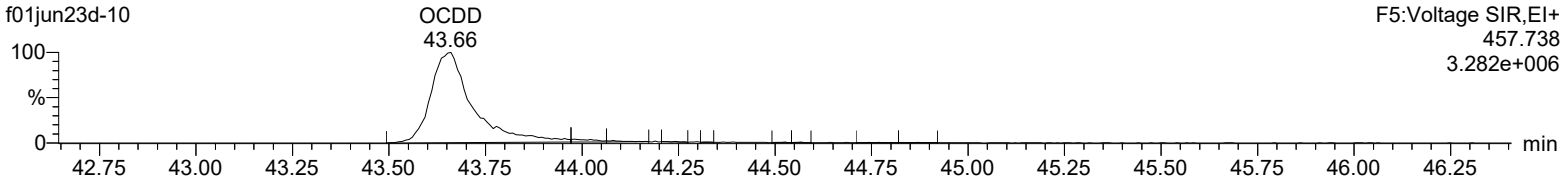
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/05/2023

06/06/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Monday, June 05, 2023 15:40:00 Eastern Daylight Time
Printed: Monday, June 05, 2023 15:41:05 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\Old Methods\CFA_1613_f01jun23.mdb 02 Jun 2023 15:57:41
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	9.45e4	1.14e5	2.09e5	30.82	1.000	0.83	NO	10.150	0.0504	1.116	1.100	1.5	9.64e5	2193	439.6	1.19e6	2104	567.6	dd	dd
2	12378-PeCDD	4.55e5	2.80e5	7.35e5	33.87	1.001	1.63	NO	50.045	0.244	1.166	1.164	0.1	8.37e6	11623	720.5	5.12e6	14168	361.3	bb	bb
3	123478-HxCDD	2.92e5	2.30e5	5.22e5	36.39	1.000	1.27	NO	50.381	0.281	1.081	1.073	0.8	5.31e6	11918	445.8	4.02e6	8924	450.5	bd	bd
4	123678-HxCDD	4.02e5	3.18e5	7.20e5	36.47	1.000	1.26	NO	51.460	0.261	1.095	1.064	2.9	5.88e6	11918	493.8	4.75e6	8924	532.5	dd	dd
5	123789-HxCDD	3.67e5	2.73e5	6.40e5	36.69	1.007	1.34	NO	52.651	0.270	1.123	1.066	5.3	4.85e6	11918	407.3	3.59e6	8924	402.0	dd	dd
6	1234678-HpCDD	3.15e5	2.89e5	6.04e5	39.63	1.000	1.09	NO	51.742	0.514	1.271	1.228	3.5	3.47e6	13302	260.9	3.13e6	13878	225.3	bb	bb
7	OCDD	4.10e5	4.35e5	8.46e5	43.66	1.001	0.94	NO	103.013	0.876	1.140	1.107	3.0	3.27e6	10919	299.4	3.56e6	11315	315.0	bd	bd
8	2378-TCDF	1.77e5	2.18e5	3.96e5	29.93	1.000	0.81	NO	10.096	0.128	1.365	1.352	1.0	1.67e6	9111	182.9	2.15e6	9327	231.0	bd	bb
9	12378-PeCDF	1.09e6	6.82e5	1.77e6	33.07	1.000	1.60	NO	49.833	0.196	1.270	1.274	-0.3	2.04e7	23625	865.5	1.24e7	26599	464.4	bb	bb
10	23478-PeCDF	1.11e6	6.87e5	1.80e6	33.68	1.000	1.62	NO	49.644	0.184	1.384	1.394	-0.7	2.21e7	23625	935.7	1.44e7	26599	540.7	bb	bb
11	123478-HxCDF	6.43e5	5.00e5	1.14e6	35.69	1.000	1.29	NO	51.660	0.239	1.465	1.418	3.3	1.21e7	20791	580.6	9.22e6	18069	510.2	bd	bd
12	123678-HxCDF	8.16e5	6.15e5	1.43e6	35.79	1.000	1.33	NO	50.927	0.228	1.404	1.378	1.9	1.23e7	20791	590.4	9.51e6	18069	526.5	dd	db
13	234678-HxCDF	6.92e5	5.04e5	1.20e6	36.26	1.000	1.37	NO	51.638	0.265	1.469	1.422	3.3	1.11e7	20791	533.5	8.16e6	18069	451.5	bd	bb
14	123789-HxCDF	5.61e5	4.23e5	9.84e5	37.00	1.000	1.33	NO	51.262	0.408	1.335	1.302	2.5	7.09e6	20791	341.2	5.34e6	18069	295.5	bd	bb
15	1234678-HpCDF	6.82e5	6.54e5	1.34e6	38.42	1.000	1.04	NO	51.875	0.287	1.436	1.384	3.8	8.76e6	19953	439.1	8.39e6	18392	456.4	bd	bb
16	1234789-HpCDF	5.31e5	5.04e5	1.04e6	40.27	1.001	1.05	NO	52.200	0.496	1.424	1.364	4.4	5.35e6	19953	268.0	4.97e6	18392	270.5	bb	bd
17	OCDF	6.80e5	7.26e5	1.41e6	43.93	1.007	0.94	NO	108.172	1.13	1.895	1.752	8.2	5.52e6	19577	281.7	5.78e6	26003	222.2	bd	bd
18	13C-2378-TCDD	8.32e5	1.04e6	1.87e6	30.81	1.022	0.80	NO	97.246	0.171	1.107	1.139	-2.8	8.63e6	7615	1133.2	1.09e7	5236	2073.9	bd	bd
19	13C-12378-PeCDD	7.71e5	4.90e5	1.26e6	33.85	1.123	1.57	NO	91.807	0.237	0.747	0.813	-8.2	1.38e7	6928	1998.7	8.74e6	5782	1511.9	bb	bd
20	13C-123478-HxCDD	5.39e5	4.27e5	9.66e5	36.38	0.992	1.26	NO	94.473	0.326	0.801	0.847	-5.5	9.64e6	8610	1119.8	7.54e6	8511	886.5	bd	bd
21	13C-123678-HxCDD	7.39e5	5.77e5	1.32e6	36.45	0.994	1.28	NO	106.178	0.269	1.091	1.027	6.2	1.05e7	8610	1223.5	8.37e6	8511	983.8	dd	dd
22	13C-1234678-HpCDD	4.95e5	4.56e5	9.51e5	39.62	1.080	1.09	NO	98.435	0.424	0.788	0.800	-1.6	5.61e6	10727	522.9	4.96e6	10327	480.2	bd	bd
23	13C-OCDD	7.18e5	7.65e5	1.48e6	43.64	1.190	0.94	NO	188.410	0.587	0.615	0.653	-5.8	5.55e6	12951	428.5	6.26e6	10807	579.7	bd	bd
24	13C-2378-TCDF	1.30e6	1.60e6	2.90e6	29.91	0.993	0.81	NO	98.927	0.134	1.715	1.734	-1.1	1.19e7	7867	1512.7	1.43e7	7479	1910.2	bd	bd
25	13C-12378-PeCDF	1.75e6	1.05e6	2.79e6	33.06	1.097	1.67	NO	96.274	0.401	1.655	1.719	-3.7	3.14e7	28354	1107.5	1.92e7	16990	1131.0	dd	bb
26	13C-23478-PeCDF	1.64e6	9.63e5	2.60e6	33.67	1.117	1.70	NO	95.144	0.425	1.540	1.619	-4.9	3.08e7	28354	1085.9	1.89e7	16990	1114.8	bb	bb
27	13C-123478-HxCDF	5.45e5	1.01e6	1.56e6	35.68	0.973	0.54	NO	100.138	0.452	1.293	1.291	0.1	1.00e7	16291	614.0	1.90e7	19894	954.6	bd	bd
28	13C-123678-HxCDF	7.36e5	1.30e6	2.04e6	35.78	0.975	0.56	NO	105.769	0.365	1.690	1.598	5.8	1.11e7	16291	683.9	2.02e7	19894	1017.8	dd	db
29	13C-234678-HxCDF	5.82e5	1.05e6	1.63e6	36.25	0.988	0.56	NO	100.963	0.436	1.351	1.338	1.0	9.20e6	16291	564.4	1.67e7	19894	840.1	bd	bb
30	13C-123789-HxCDF	5.01e5	9.73e5	1.47e6	36.99	1.008	0.52	NO	102.707	0.490	1.222	1.190	2.7	6.22e6	16291	381.8	1.17e7	19894	589.6	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

Last Altered: Monday, June 05, 2023 15:40:00 Eastern Daylight Time
Printed: Monday, June 05, 2023 15:41:05 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	5.97e5	1.26e6	1.86e6	38.41	1.047	0.47	NO	100.347	0.360	1.542	1.537	0.3	7.75e6	12387	625.5	1.60e7	21893	731.0	bd	bb
32	13C-1234789-HpCDF	4.48e5	1.01e6	1.45e6	40.25	1.097	0.45	NO	100.620	0.461	1.206	1.198	0.6	4.36e6	12387	352.2	9.53e6	21893	435.1	bd	bd
33	13C-1234-TCDD	7.49e5	9.40e5	1.69e6	30.13	0.000	0.80	NO	100.000	0.195	1.000	1.000	0.0	7.29e6	7615	957.9	9.06e6	5236	1730.9	bb	bd
34	13C-123789-HxCDD	6.77e5	5.29e5	1.21e6	36.68	0.000	1.28	NO	100.000	0.276	1.000	1.000	0.0	8.70e6	8610	1011.0	6.90e6	8511	811.1	dd	dd
35	37Cl-2378-TCDD	1.75e5		1.75e5	30.84	1.023			9.218	0.0399	1.036	1.124	-7.8	1.90e6	2949	643.3				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/05/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

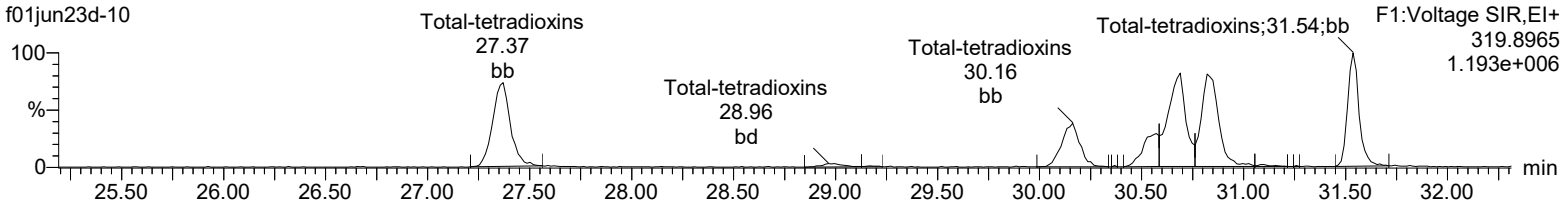
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

06/06/2023

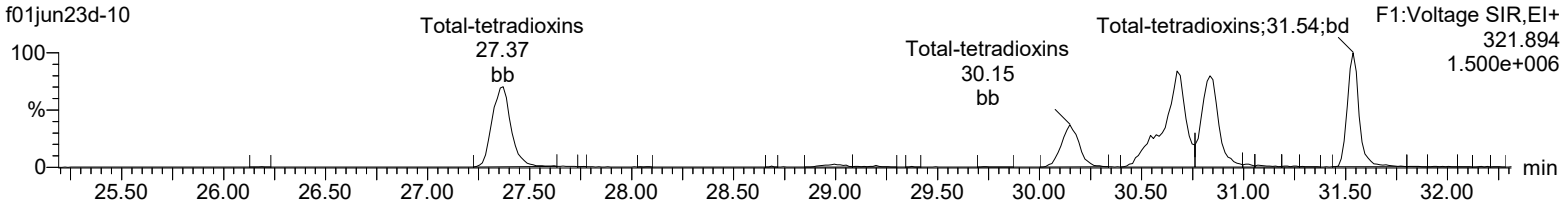
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f01jun23.mdb 02 Jun 2023 11:47:32
Calibration: C:\MassLynx\DEFAULT.PRO\CurveDB\CFA_1613_f01jun23a.cdb 02 Jun 2023 11:44:28

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

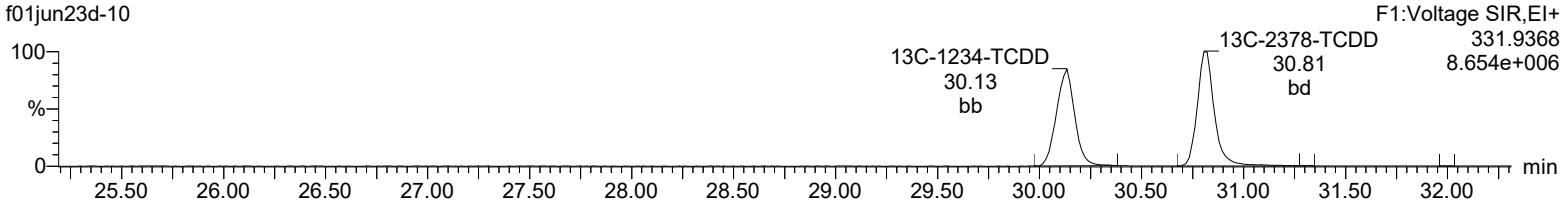
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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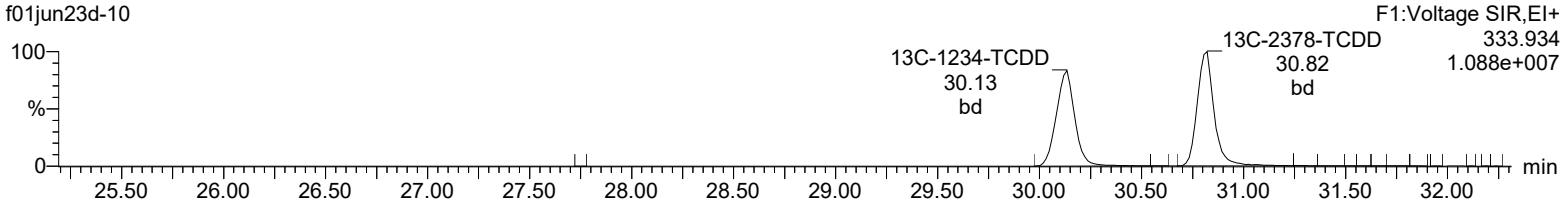
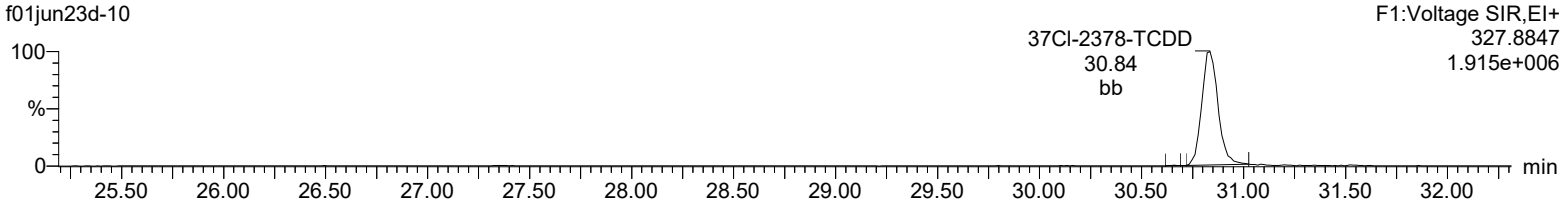
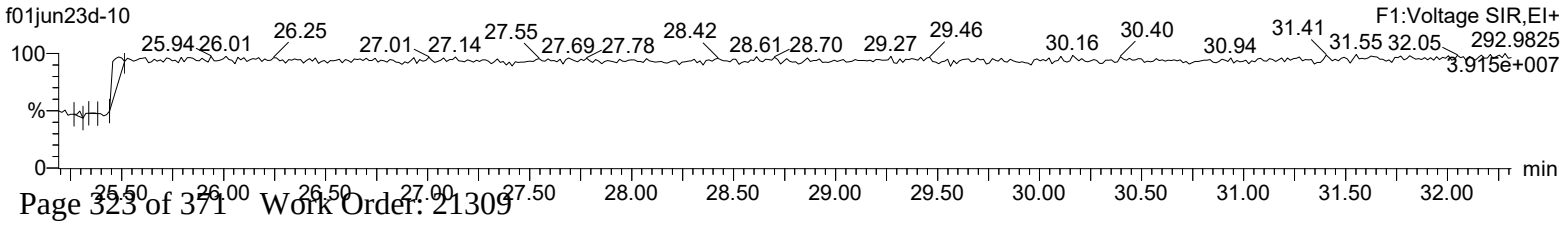


37Cl-2378-TCDD



Lock Mass F1



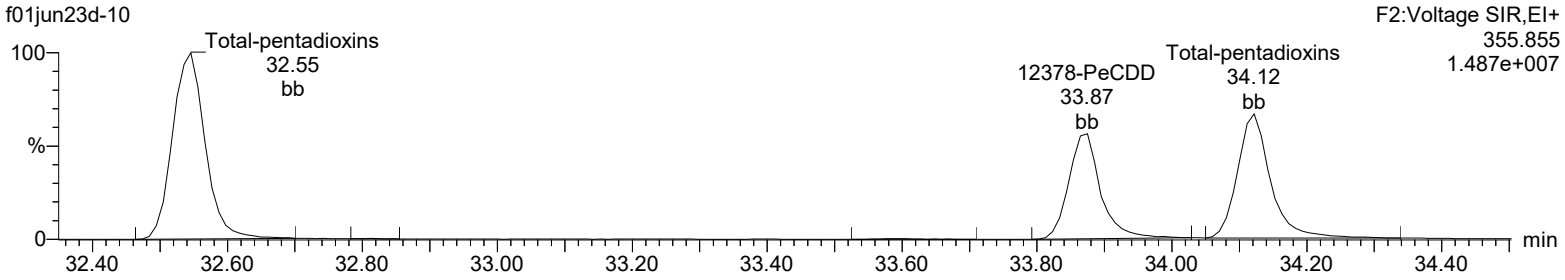
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

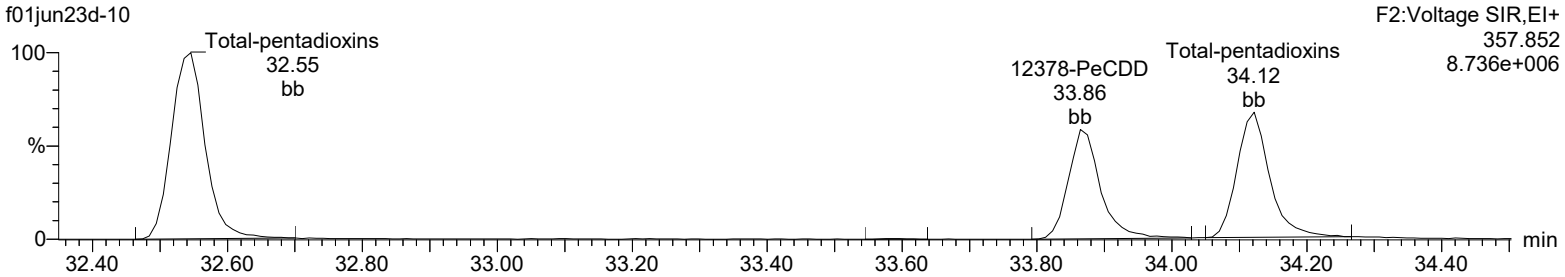
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

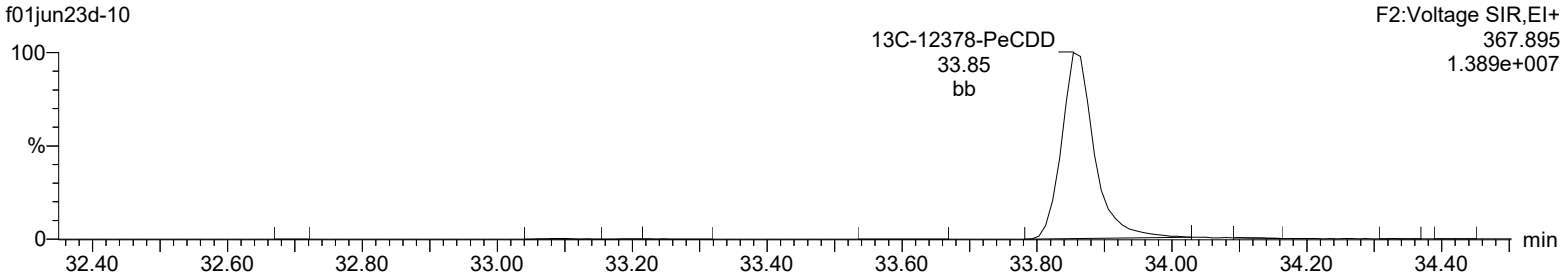
Total-pentadioxins



Total-pentadioxins



13C-12378-PeCDD



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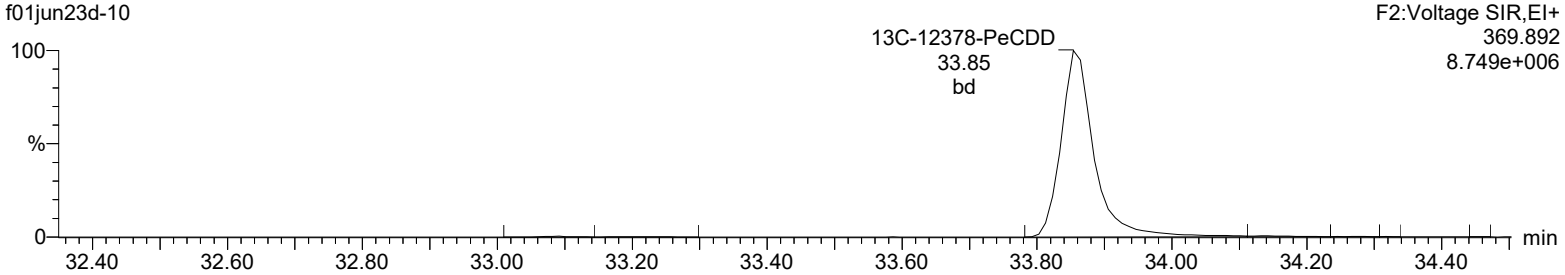
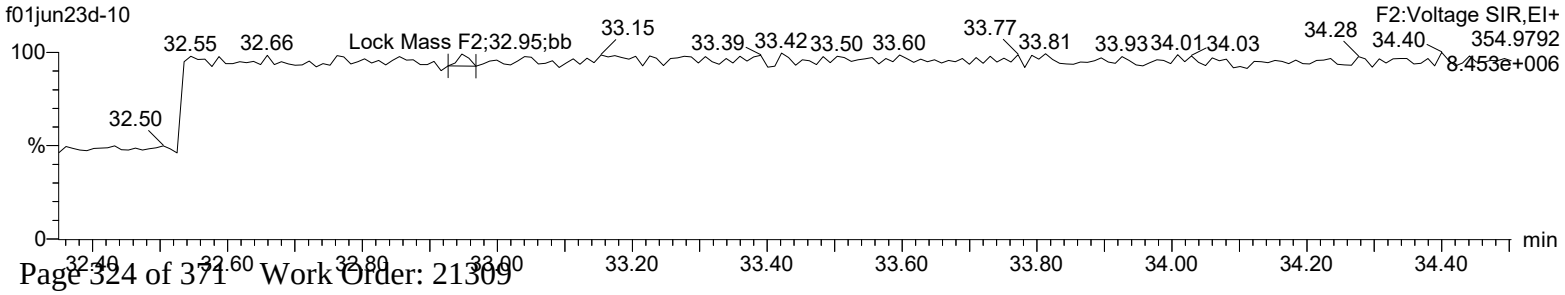


Lock Mass F2



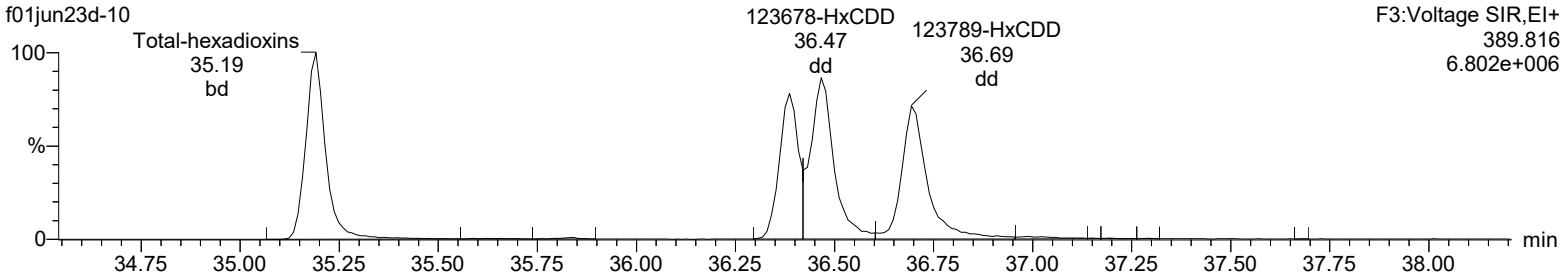
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

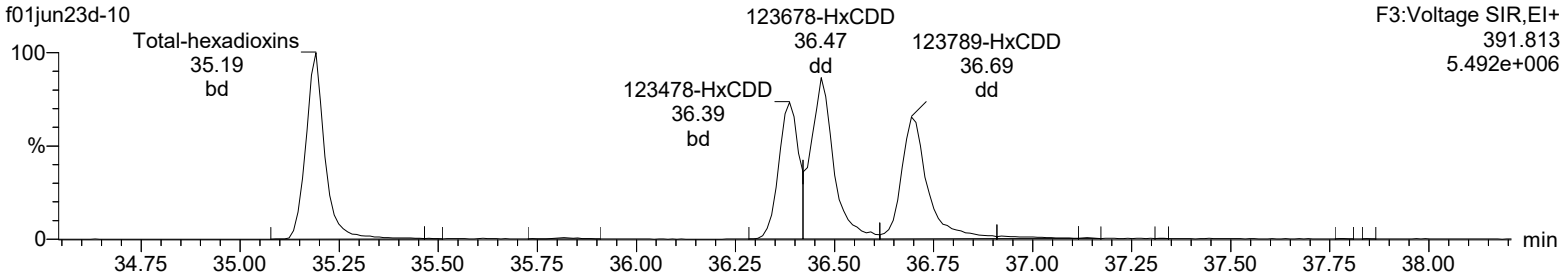
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

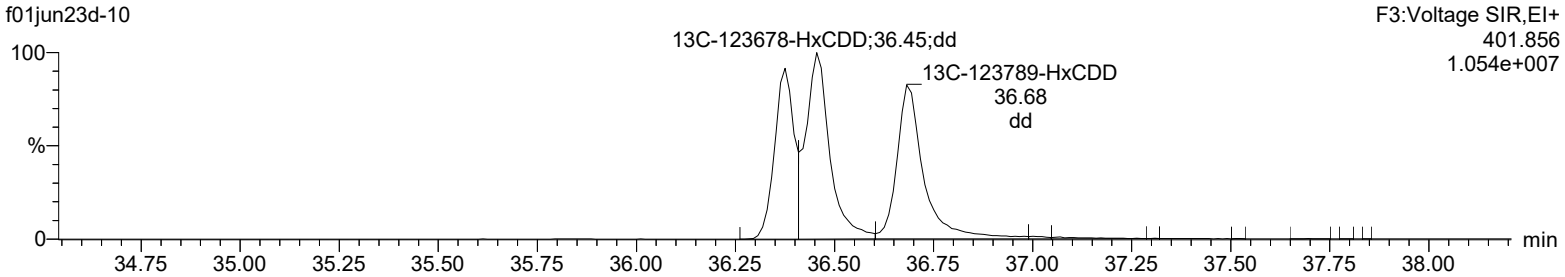
Total-hexadioxins



Total-hexadioxins



13C-123478-HxCDD



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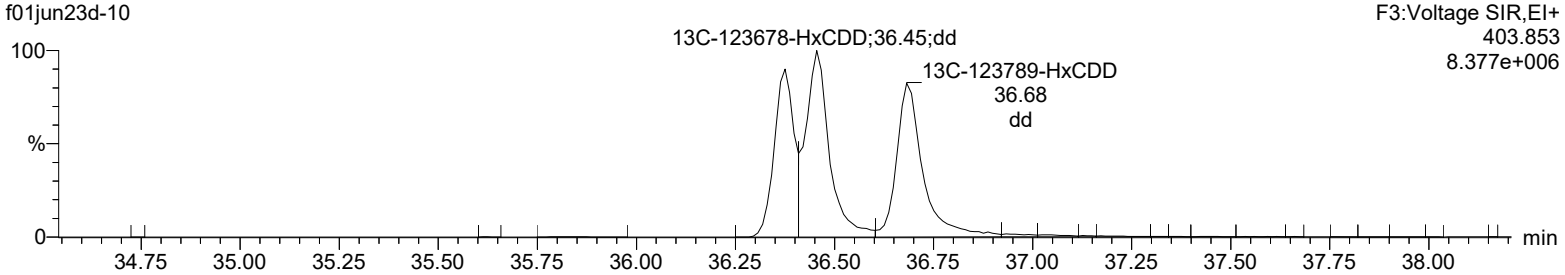
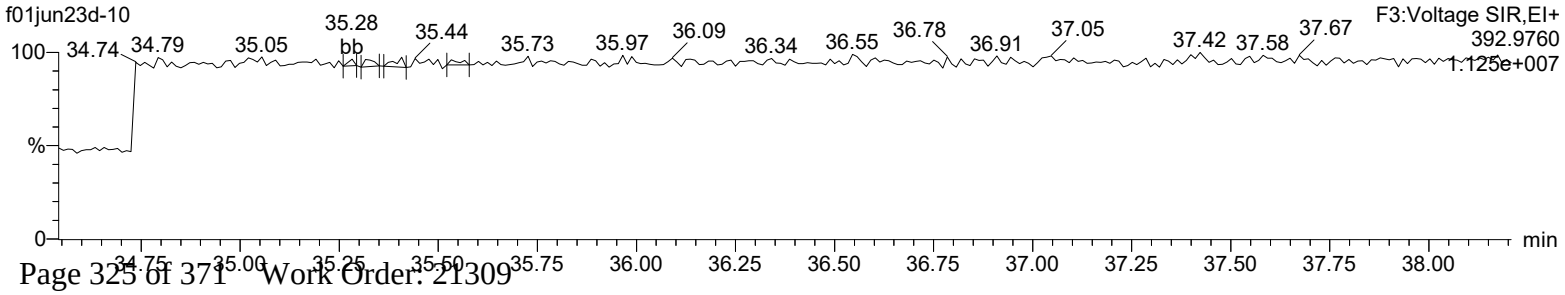


Lock Mass F3



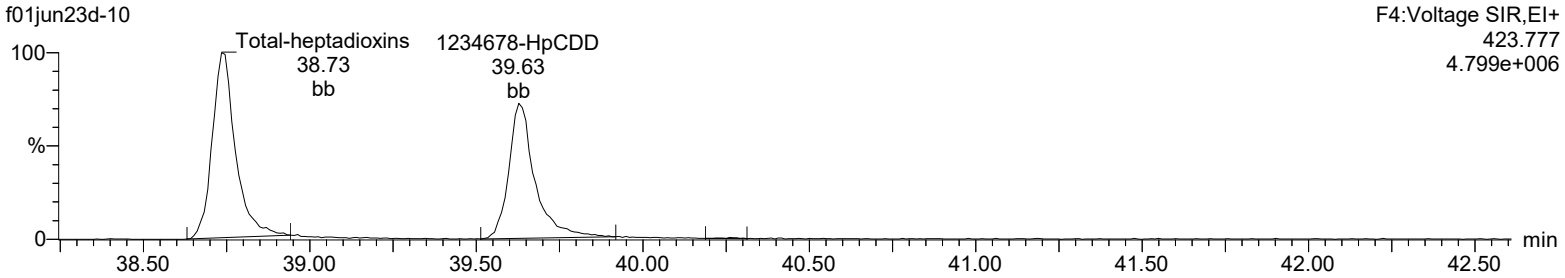
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

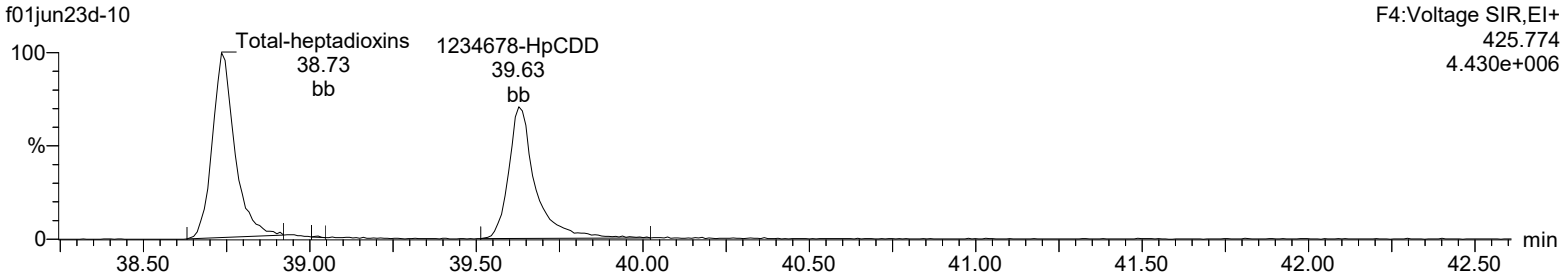
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

Total-heptadioxins



Total-heptadioxins



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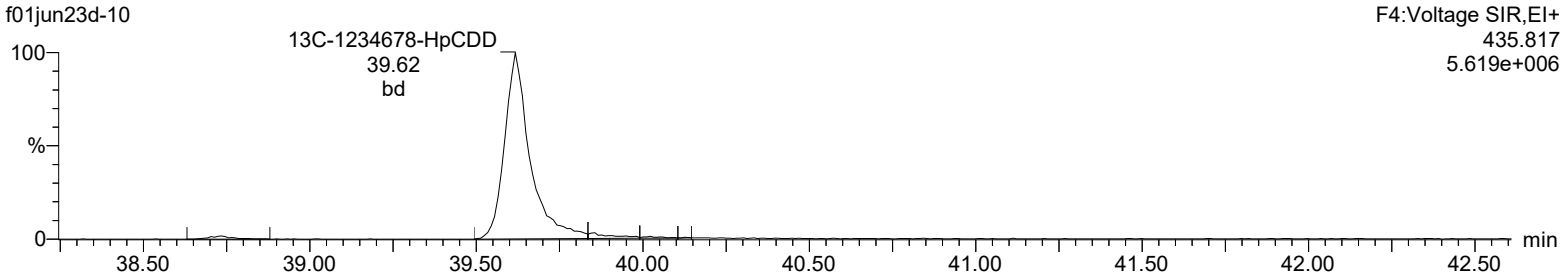

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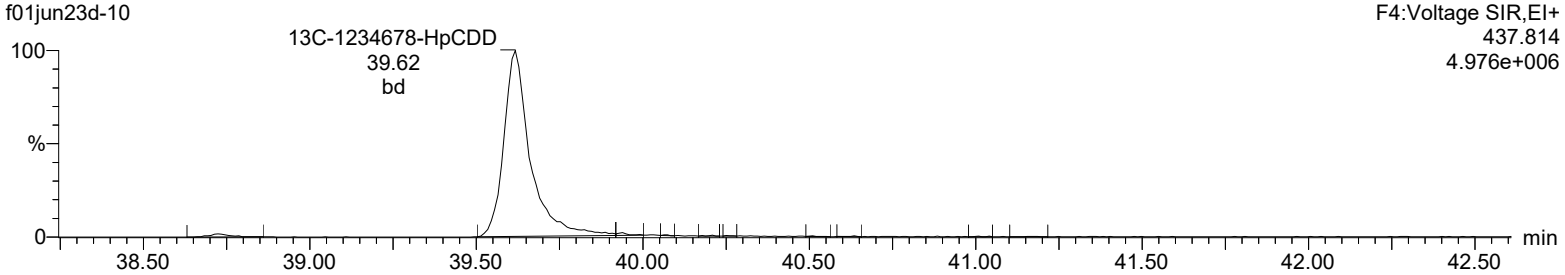
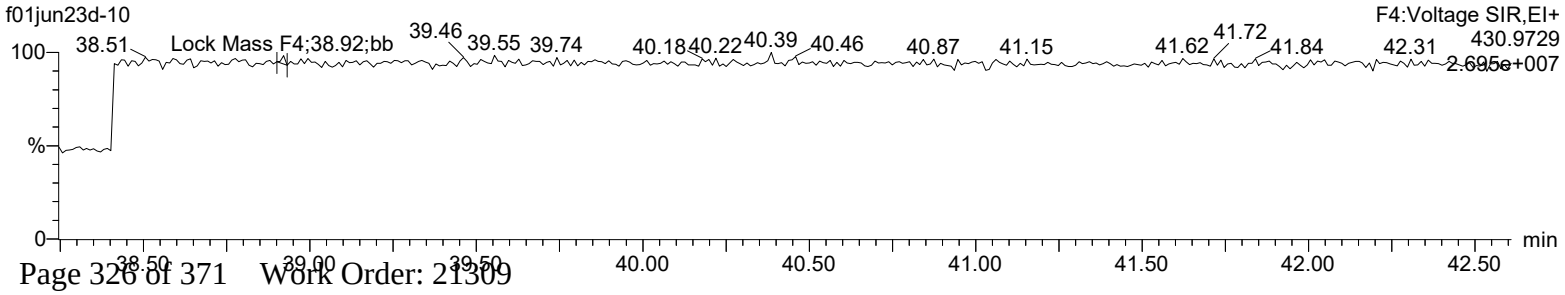


Lock Mass F4



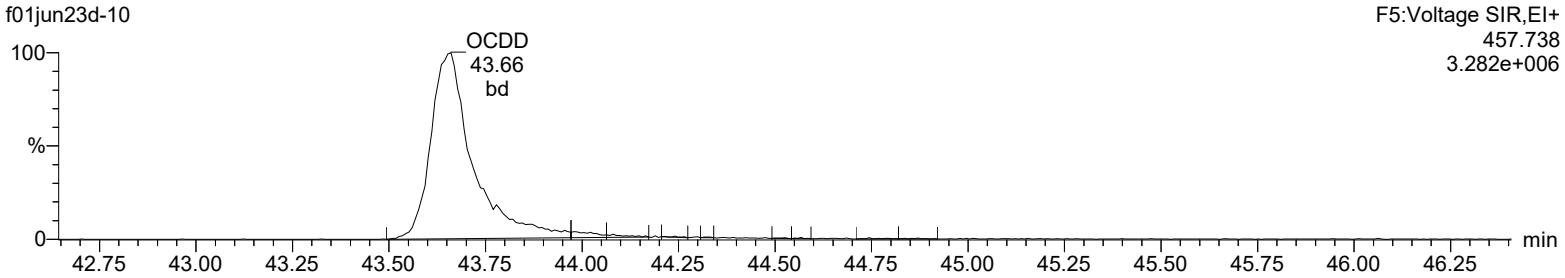
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

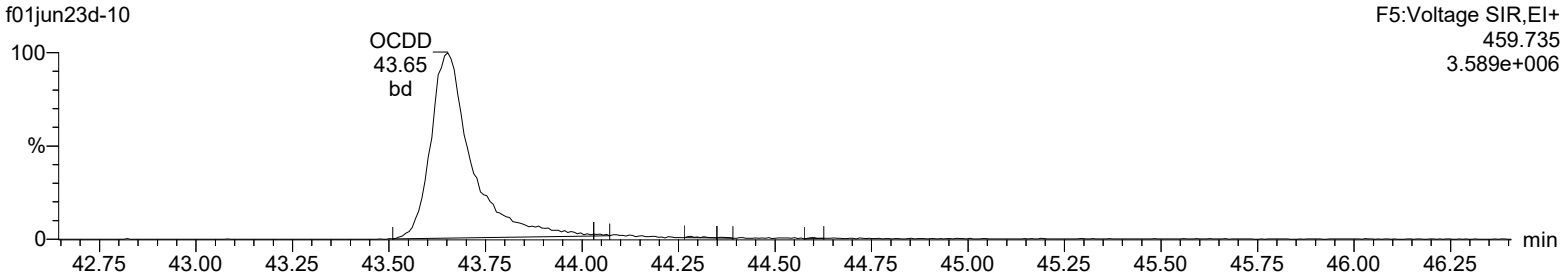
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

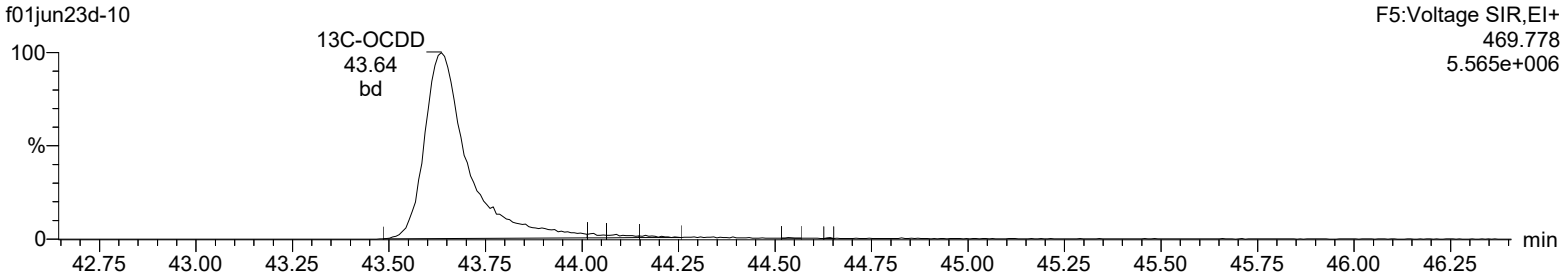
OCDD



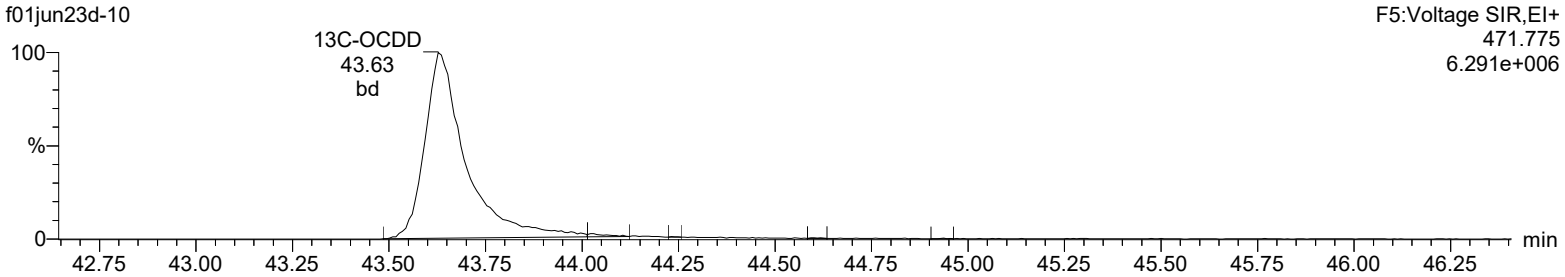
OCDD



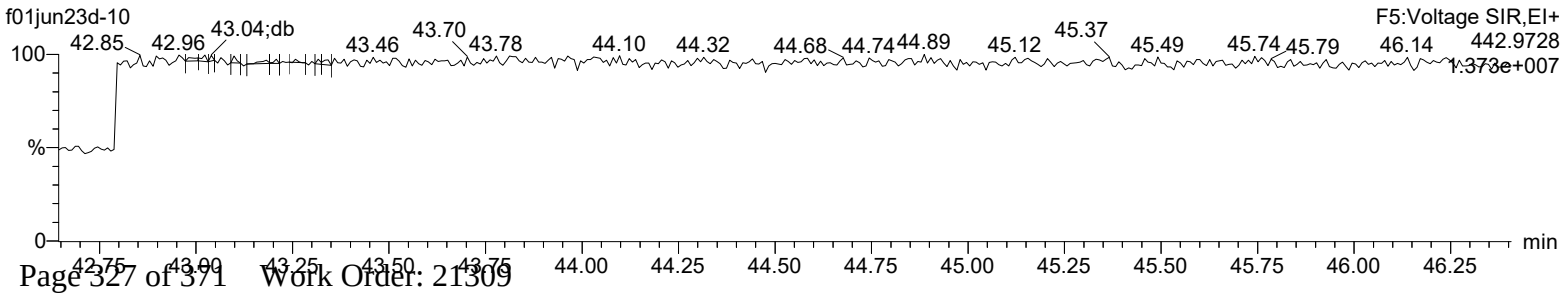
13C-OCDD



13C-OCDD



Lock Mass F5



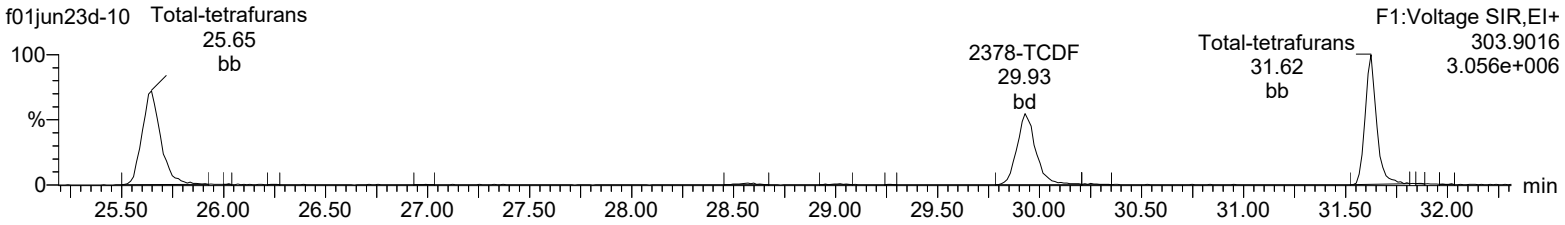
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

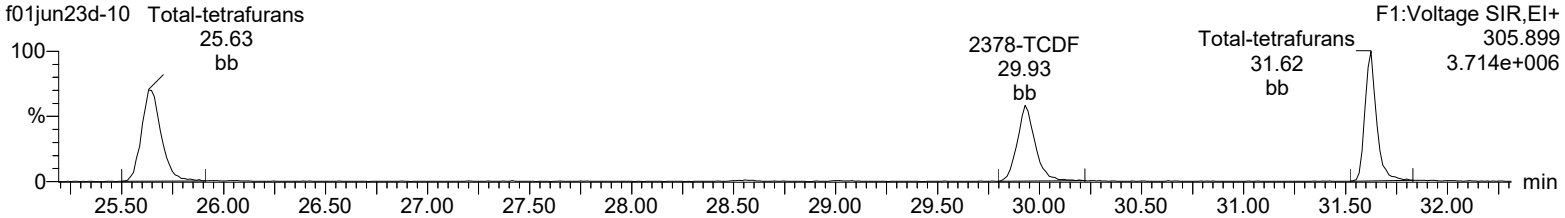
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

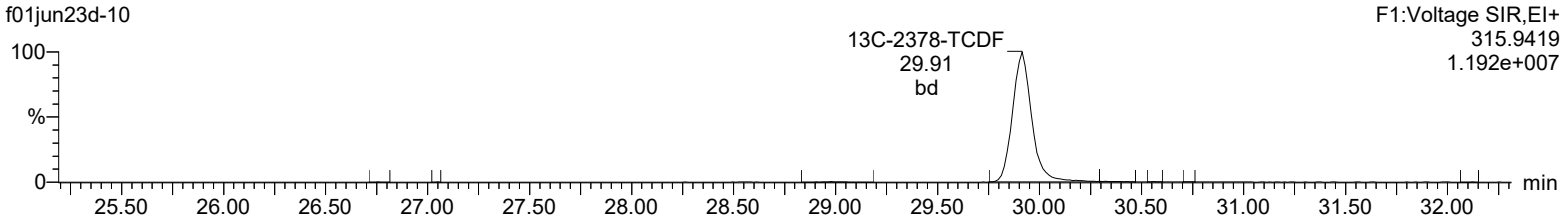
Total-tetrafurans



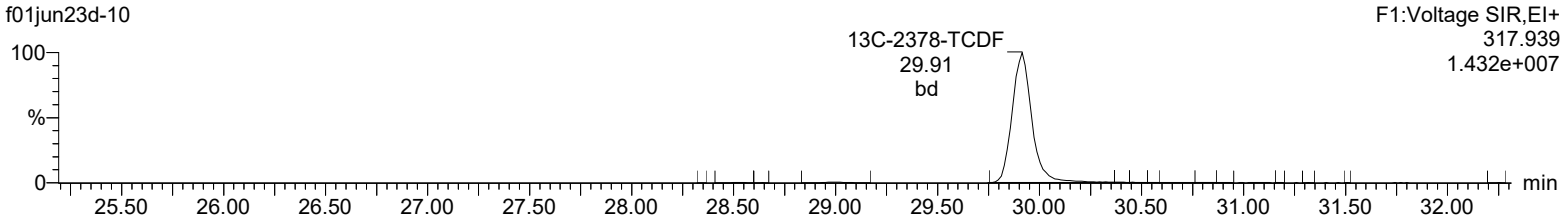
Total-tetrafurans



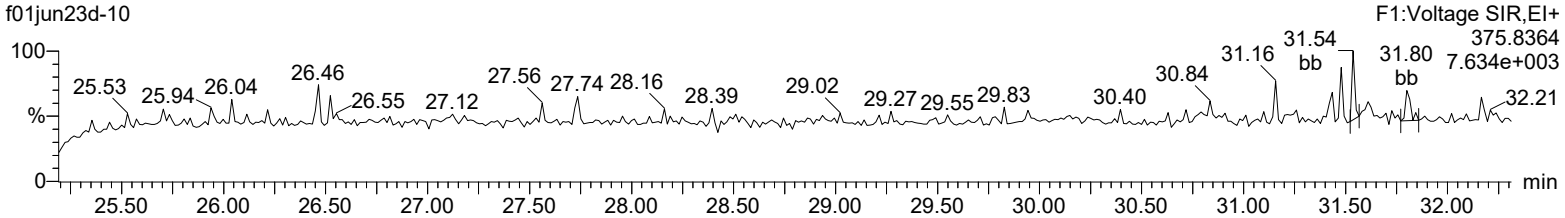
13C-2378-TCDF



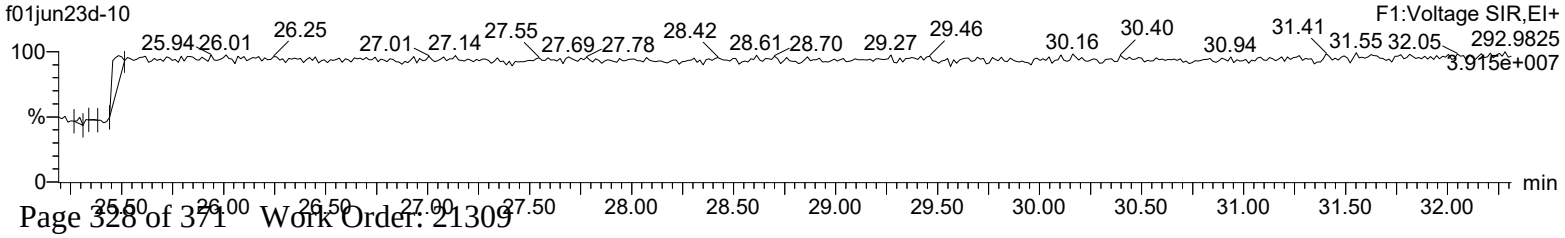
13C-2378-TCDF



HxDPE



Lock Mass F1



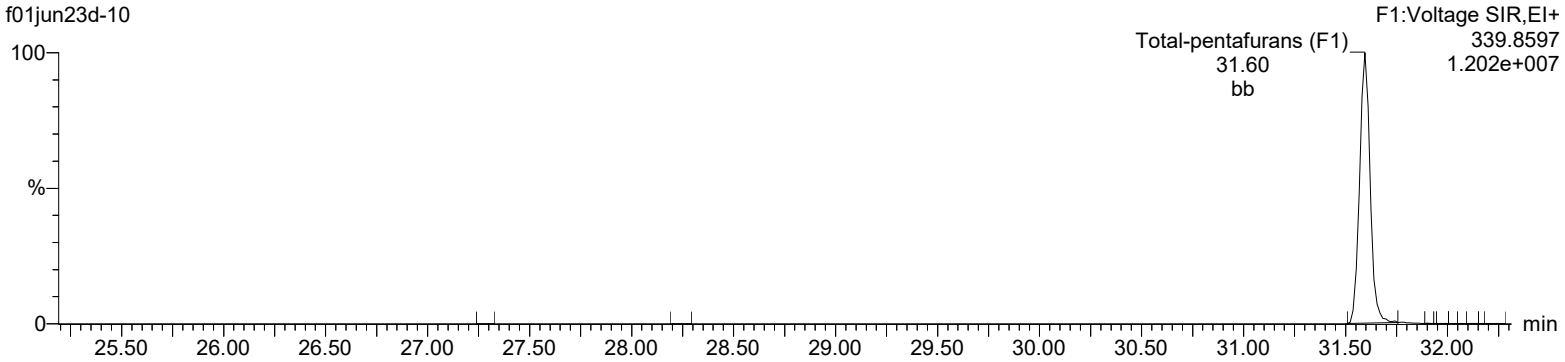
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

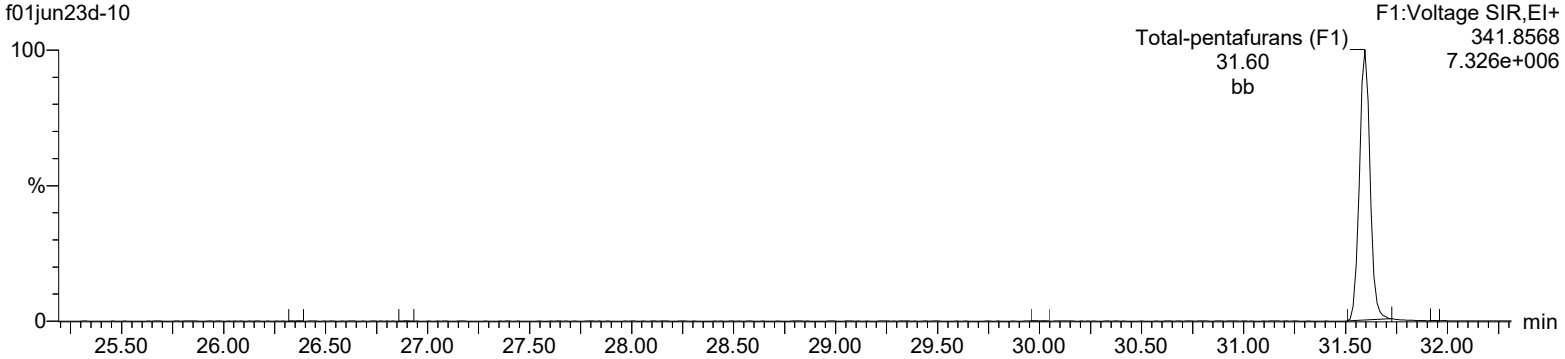
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

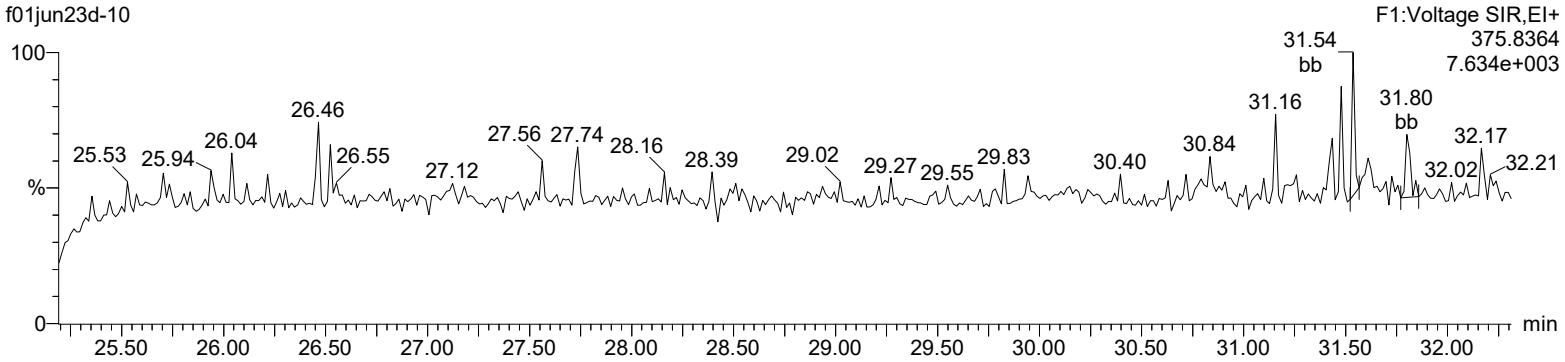
Total-pentafurans (F1)



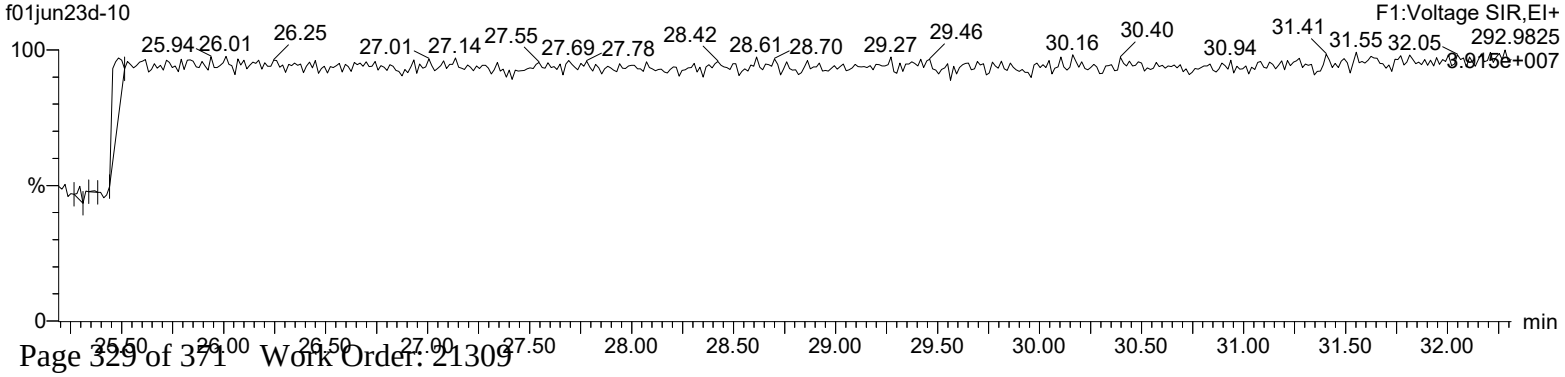
Total-pentafurans (F1)



HxDPE



Lock Mass F1



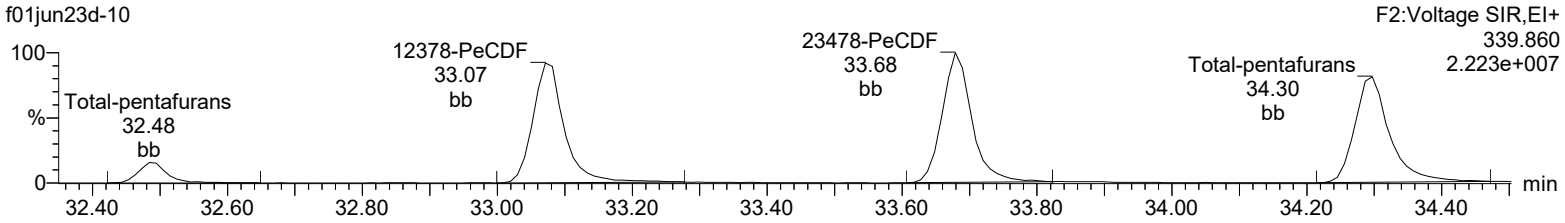
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

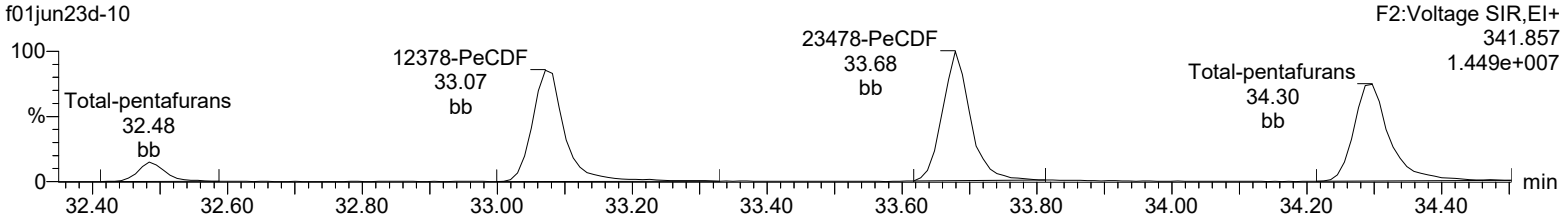
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

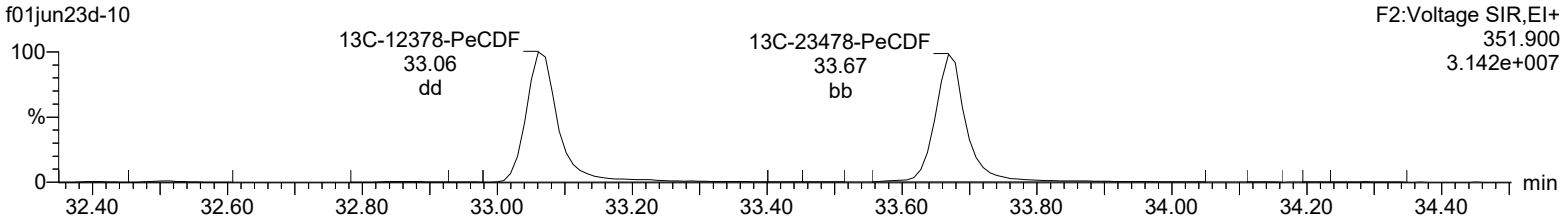
Total-pentafurans



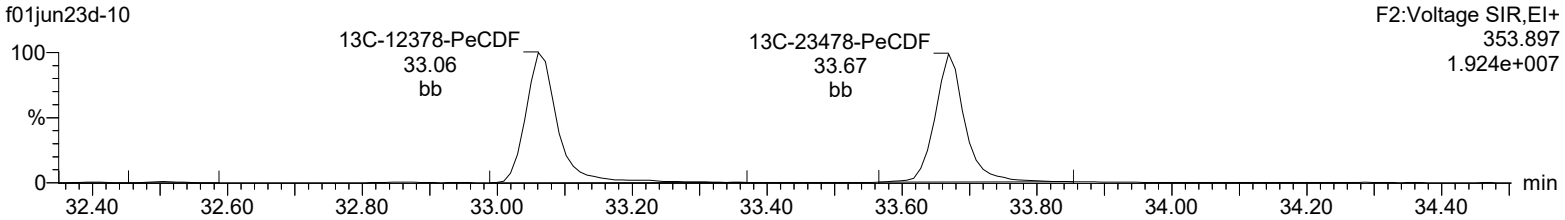
Total-pentafurans



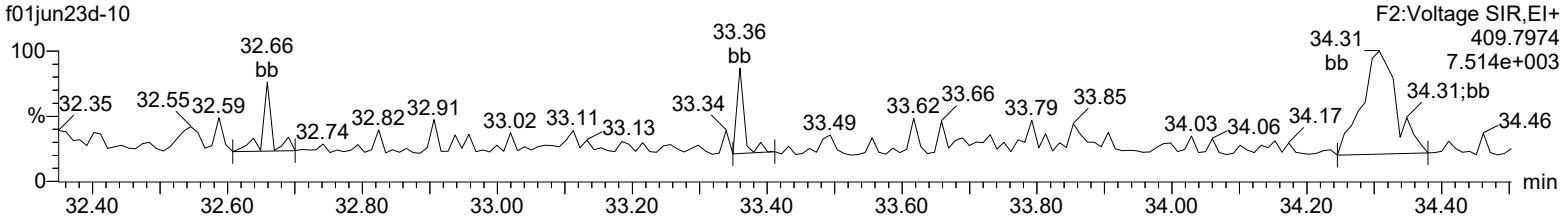
13C-12378-PeCDF



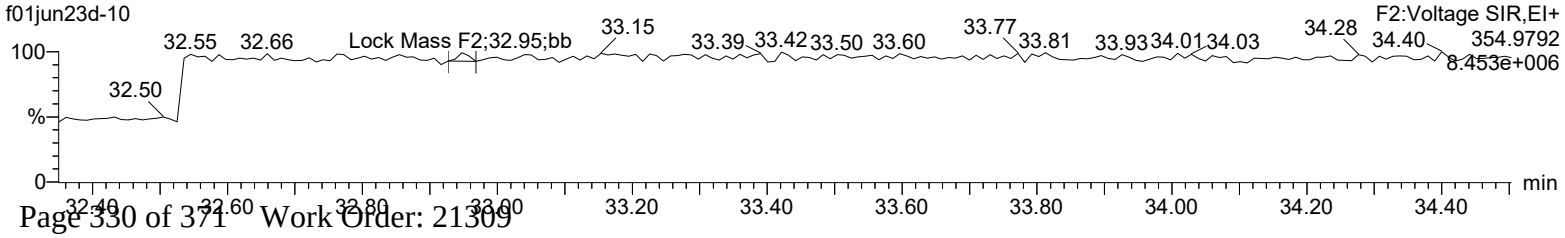
13C-12378-PeCDF



HpDPE



Lock Mass F2



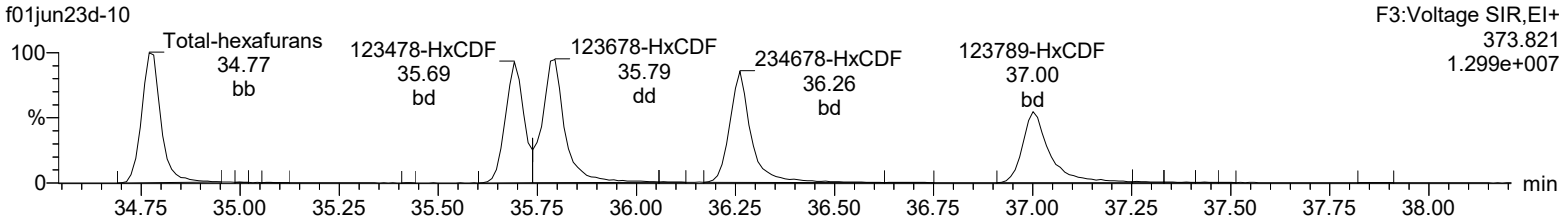
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

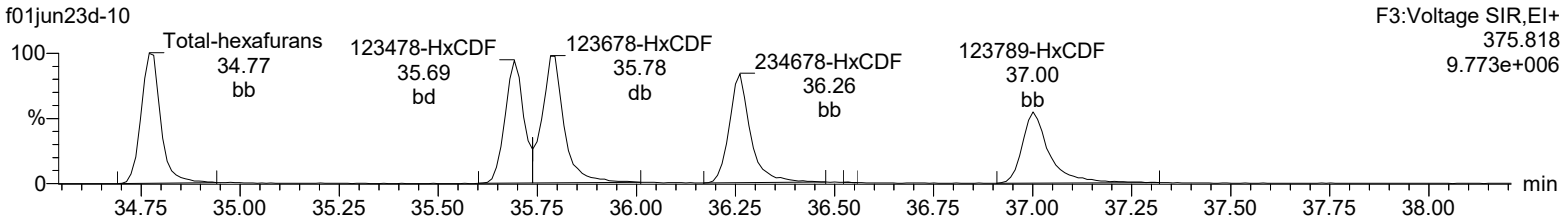
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

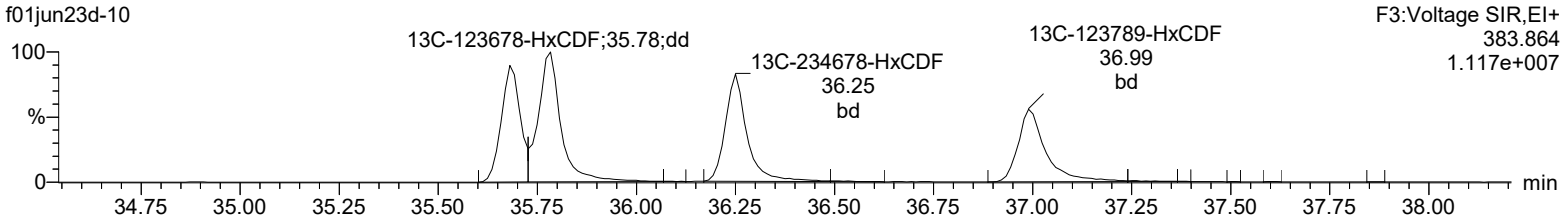
Total-hexafurans



Total-hexafurans



13C-123478-HxCDF



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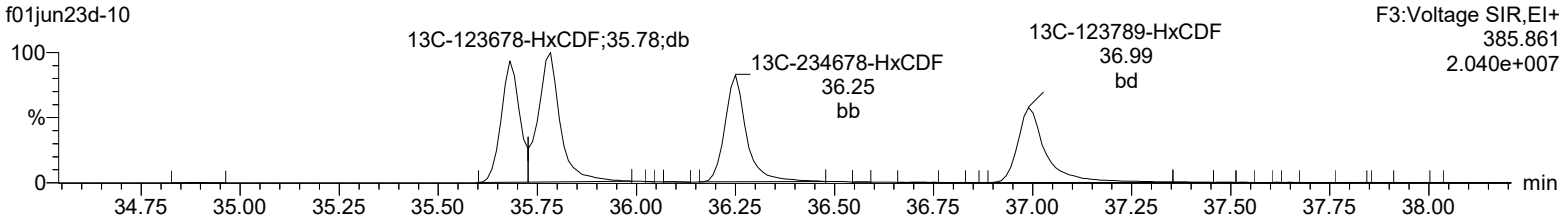
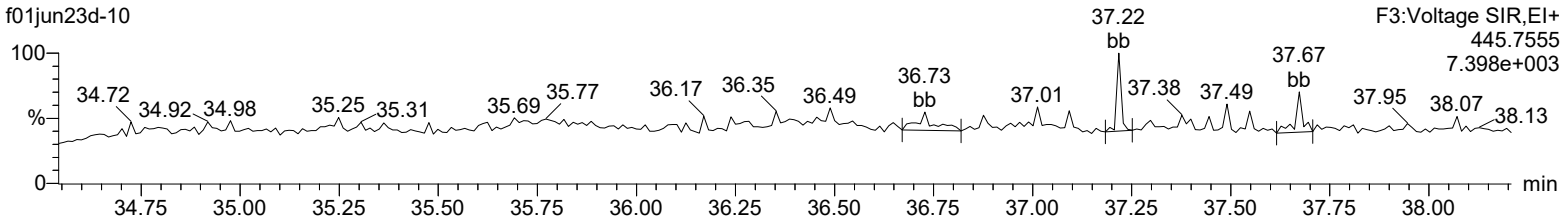
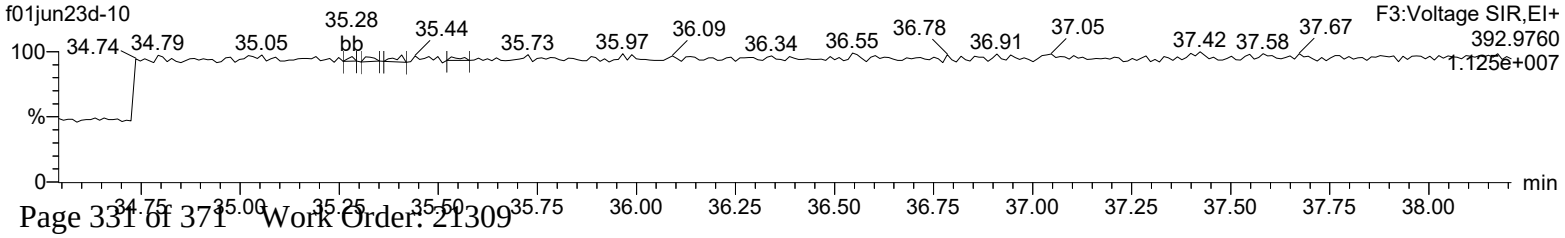


OcDPE



Lock Mass F3



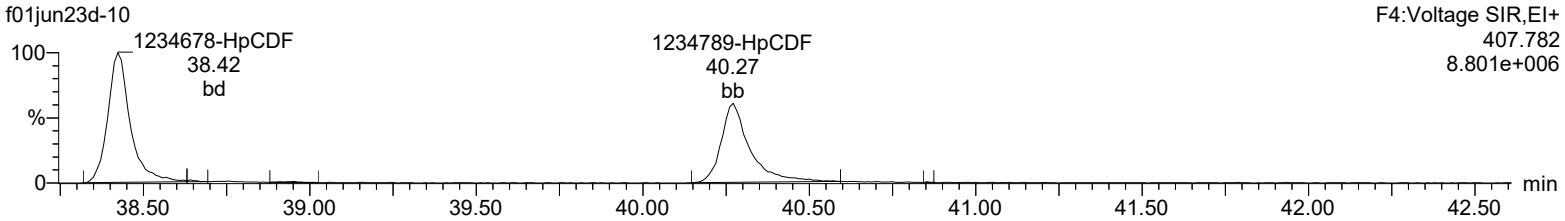
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

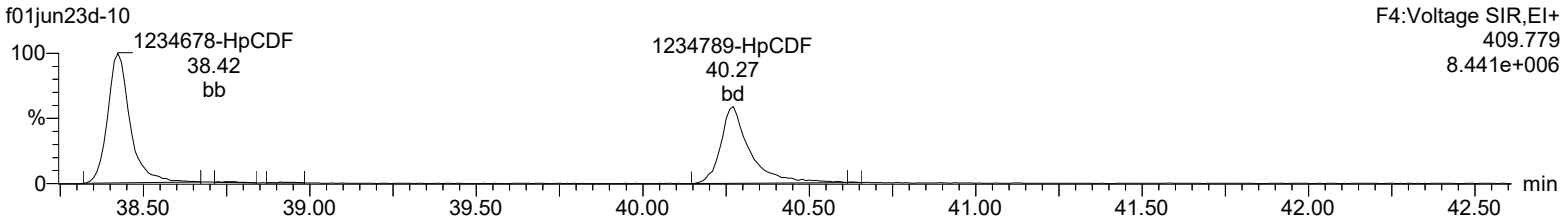
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

Total-heptafurans



Total-heptafurans



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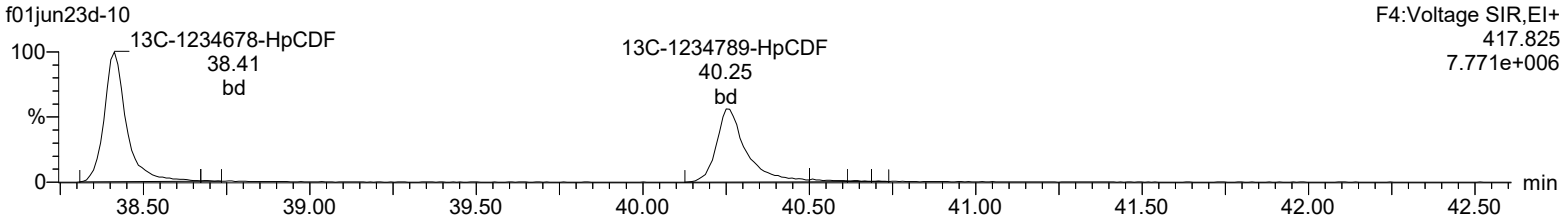

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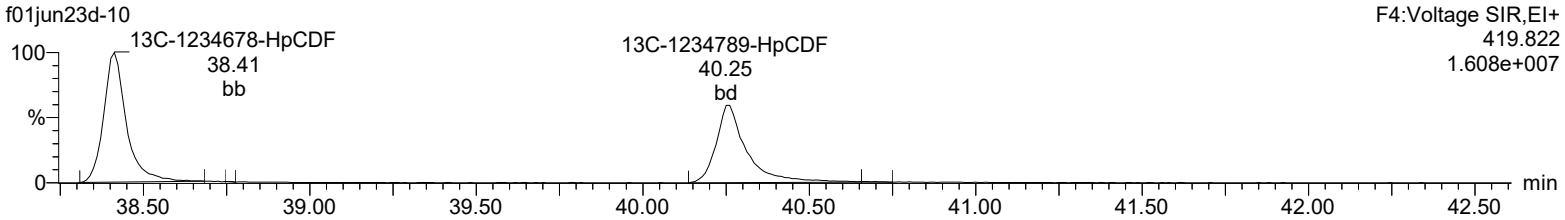

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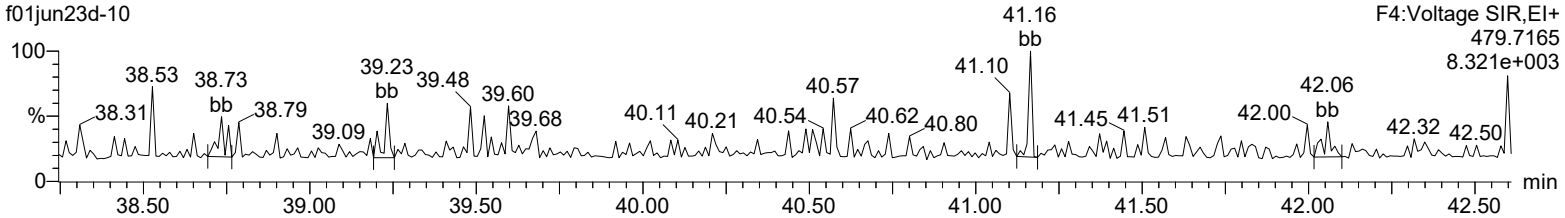
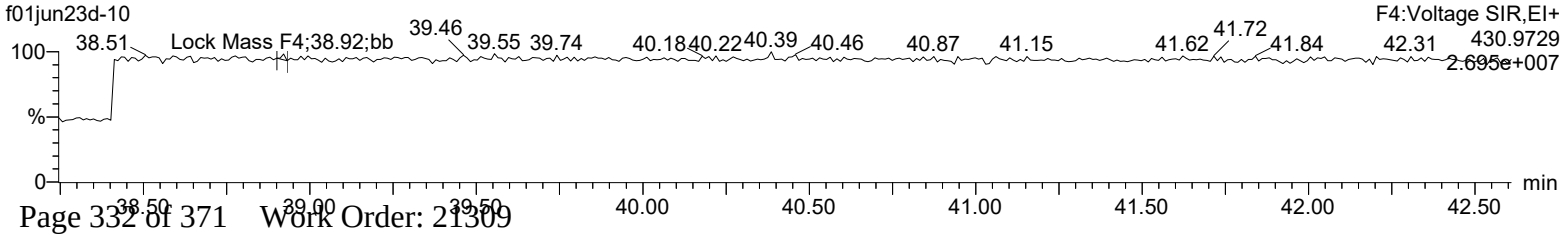


Lock Mass F4



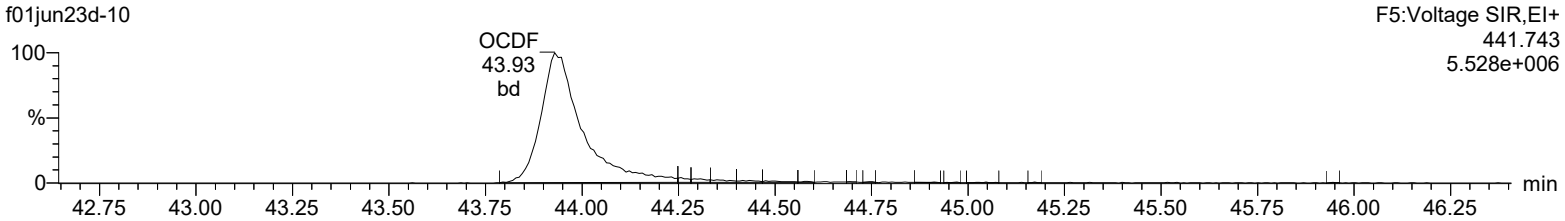
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f01jun23d-10.qld

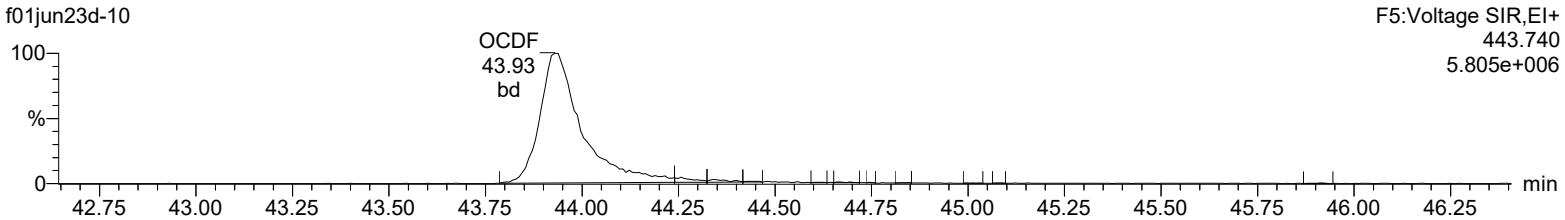
Last Altered: Friday, June 02, 2023 12:44:43 Eastern Daylight Time
Printed: Friday, June 02, 2023 12:46:24 Eastern Daylight Time

Name: f01jun23d-10, Date: 02-Jun-2023, Time: 02:21:55, ID: CS3WT UD230328-04.1 CPSZT, Description: , Job: f01jun23d, Task: HRP722_2, User: SM1

OCDF



OCDF



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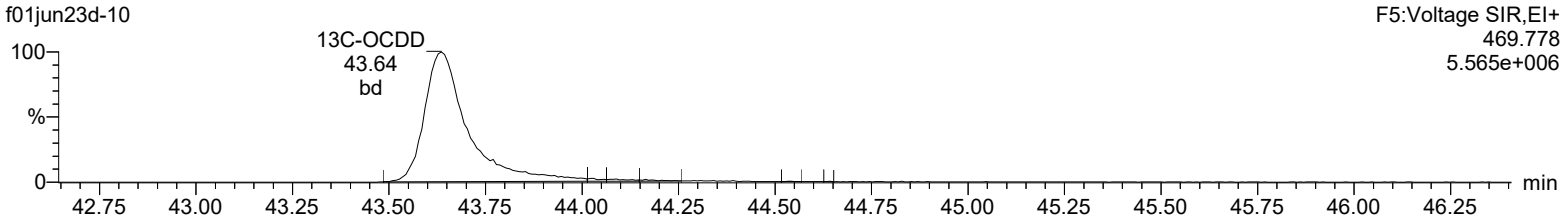

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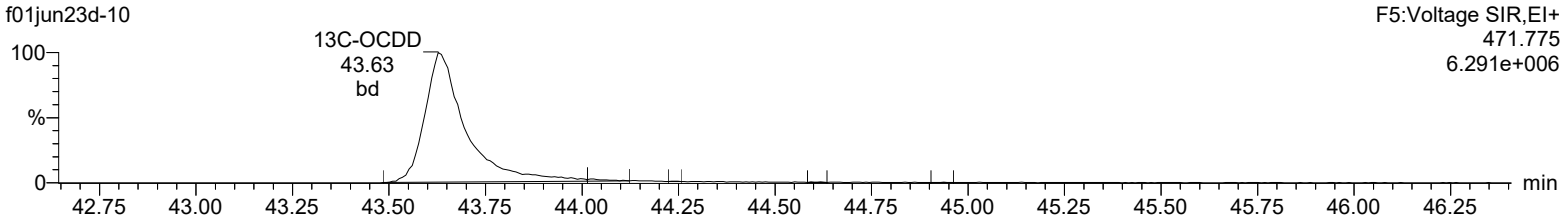

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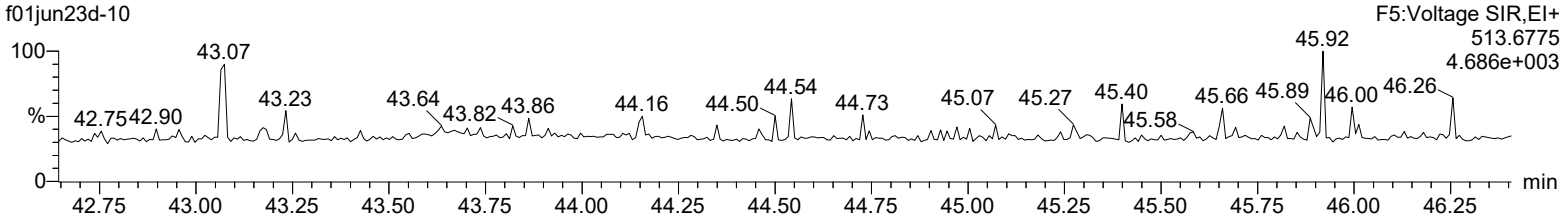

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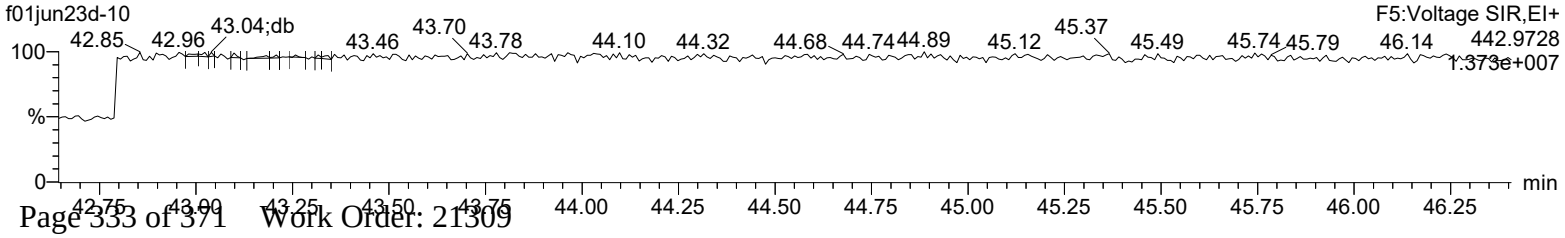


Continuing Calibration Data

RUN LOG

Instrument: HRP722_2

Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f23jun23a_2-1	23-JUN-2023 21:17:40	Mallory Walton	SB		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-2	23-JUN-2023 22:05:15	Mallory Walton	21266014-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-3	23-JUN-2023 22:54:09	Mallory Walton	21266015-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-4	23-JUN-2023 23:43:03	Mallory Walton	21266016-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-5 RR c/o	24-JUN-2023 00:31:58	Mallory Walton	21266017-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-6	24-JUN-2023 01:20:52	Mallory Walton	21266018-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-7	24-JUN-2023 02:09:46	Mallory Walton	21266019-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-8	24-JUN-2023 02:58:40	Mallory Walton	21266020-1	52690	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-9	24-JUN-2023 03:47:34	Mallory Walton	21400001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-10	24-JUN-2023 04:36:29	Mallory Walton	21400002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-11	24-JUN-2023 05:25:25	Mallory Walton	21400003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-12	24-JUN-2023 06:14:18	Mallory Walton	21400004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-13	24-JUN-2023 07:03:11	Mallory Walton	21400005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_2-14	24-JUN-2023 07:52:07	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

RUN LOG

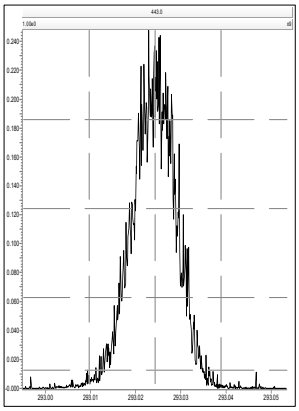
Instrument: HRP722_2

Name	Run Date	Analyst	Sample Information	Batch ID	Injection Volume	Ms Method	Tune Method
f23jun23a_3-1	24-JUN-2023 08:48:51	Mallory Walton	12034326-1 LCS		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-2	24-JUN-2023 09:36:20	Mallory Walton	12034327-1 LCSD		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-3	24-JUN-2023 10:25:15	Mallory Walton	12034325-1 MB		1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-4	24-JUN-2023 11:14:10	Mallory Walton	21423001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-5	24-JUN-2023 12:03:04	Mallory Walton	21423002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-6	24-JUN-2023 12:52:04	Mallory Walton	21423003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-7	24-JUN-2023 13:41:03	Mallory Walton	21423004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-8	24-JUN-2023 14:29:57	Mallory Walton	21423005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-9	24-JUN-2023 15:18:53	Mallory Walton	21309001-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-10	24-JUN-2023 16:07:53	Mallory Walton	21309002-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-11	24-JUN-2023 16:56:51	Mallory Walton	21309003-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-12	24-JUN-2023 17:45:46	Mallory Walton	21309004-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-13	24-JUN-2023 18:34:41	Mallory Walton	21309005-1	52698	1 uL	dioxin_db5ms-hrp722_2	10K_DX
f23jun23a_3-14	24-JUN-2023 19:23:35	Mallory Walton	CS3WT UD230505-02.1		1 uL	dioxin_db5ms-hrp722_2	10K_DX

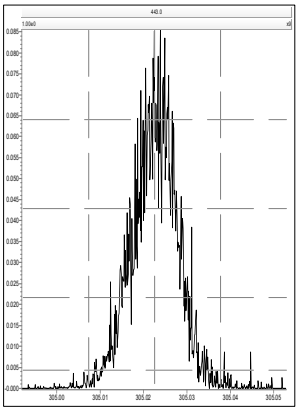
Printed: Friday, June 23, 2023 21:17:36 Eastern Daylight Time

06/26/2023 06/26/2023

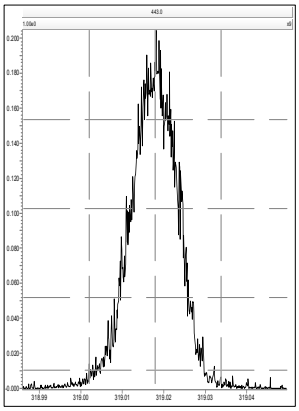
M 292.9824 R 13778



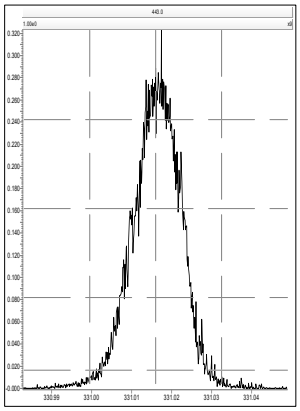
M 304.9824 R 13970



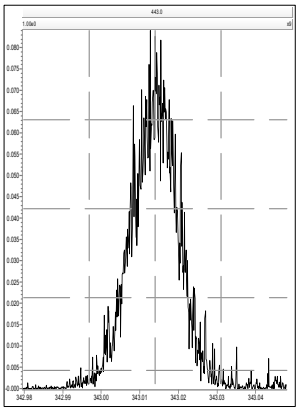
M 318.9792 R 12445



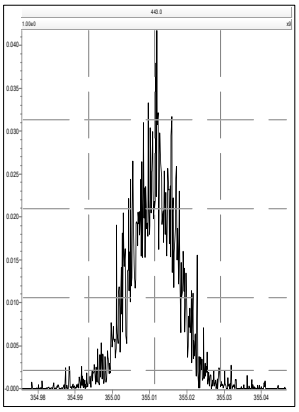
M 330.9792 R 12406



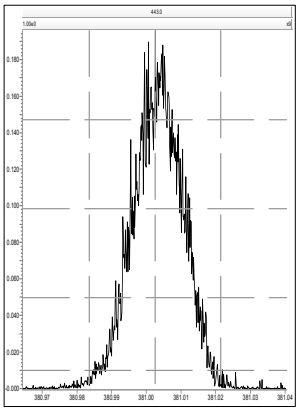
M 342.9792 R 12921



M 354.9792 R 14247



M 380.9760 R 12167



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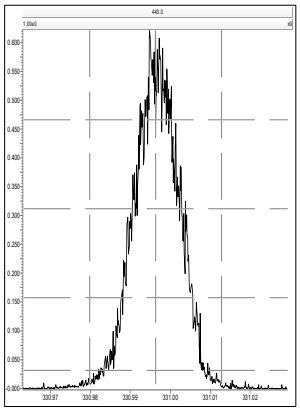

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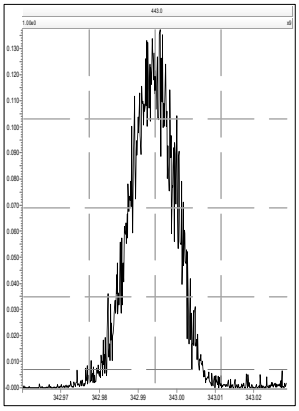

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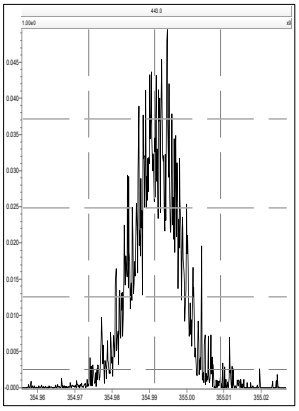

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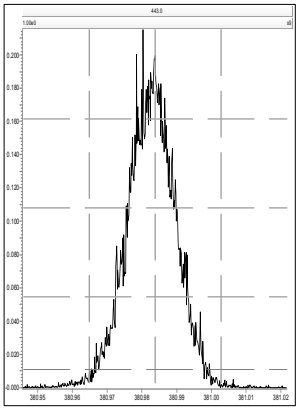
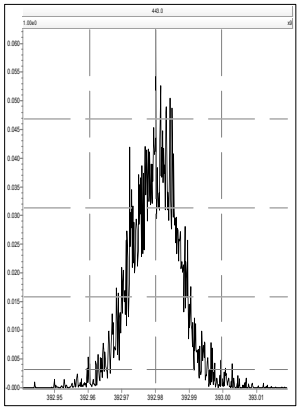


M 392.9760 R 14029



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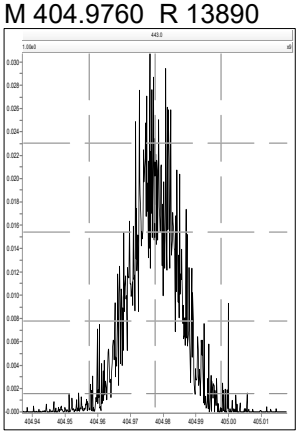

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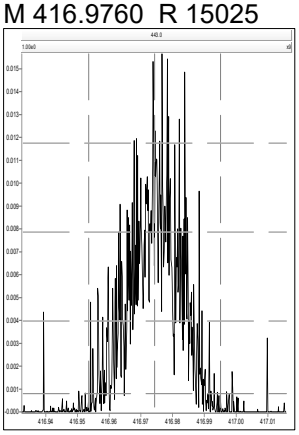
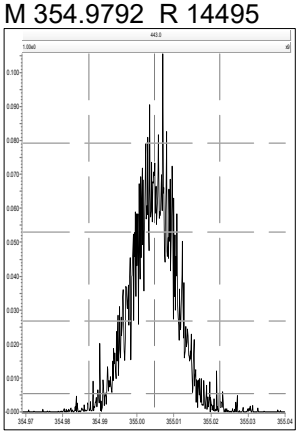
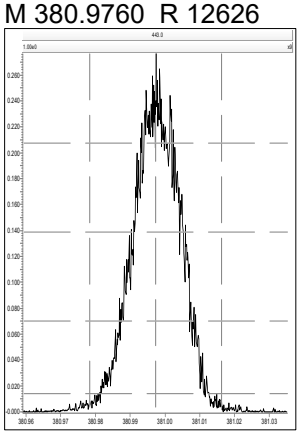


M 354.9792 R 14495

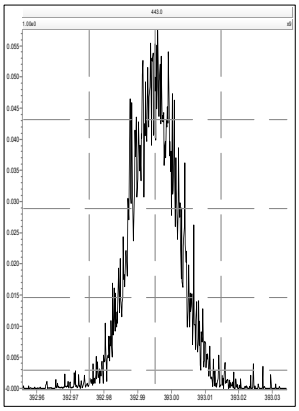


M 380.9760 R 12626

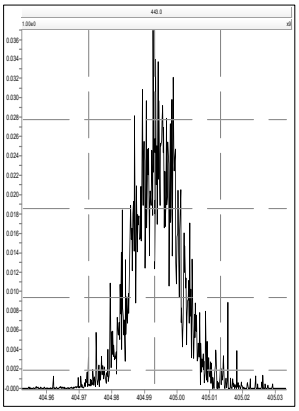


Printed: Friday, June 23, 2023 21:17:36 Eastern Daylight Time

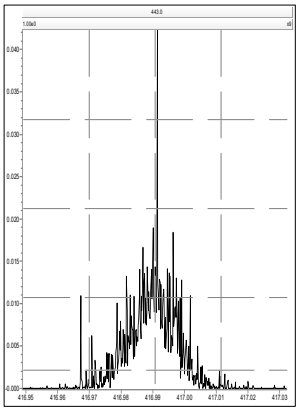
M 392.9760 R 13378



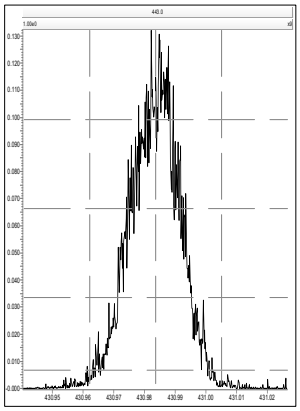
M 404.9760 R 14018



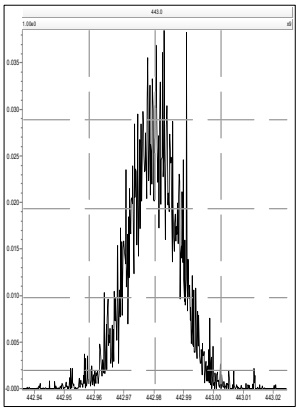
M 416.9760 R 16244



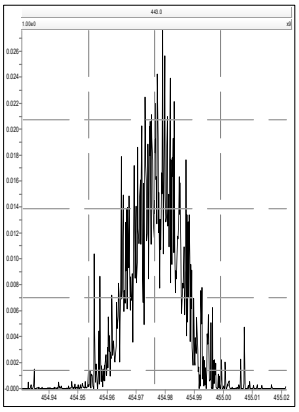
M 430.9728 R 12315



M 442.9728 R 13049



M 454.9728 R 14792



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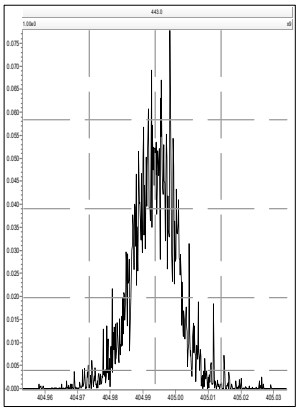

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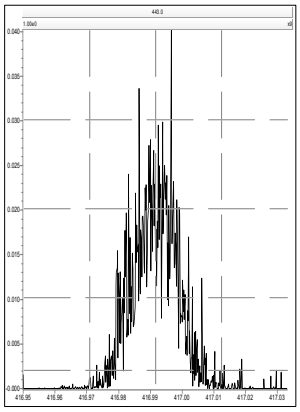

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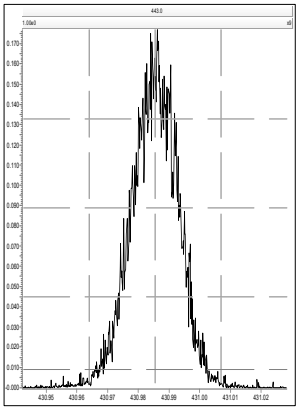
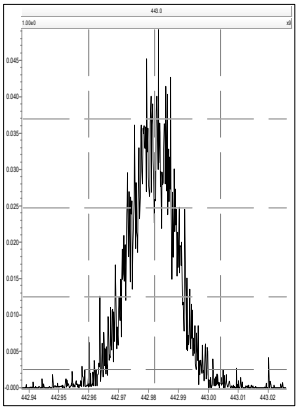


M 442.9728 R 14253



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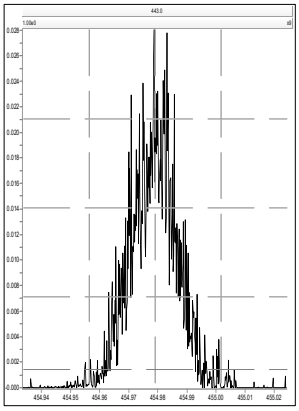

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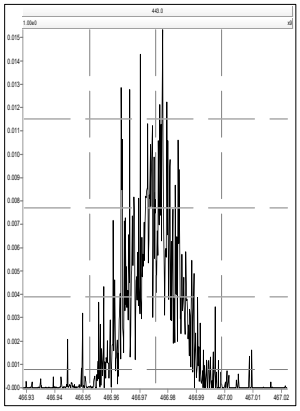
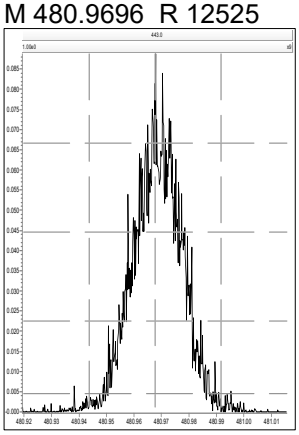


M 480.9696 R 12525



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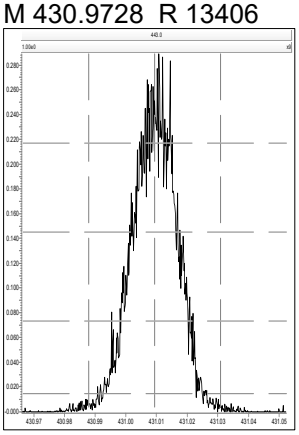
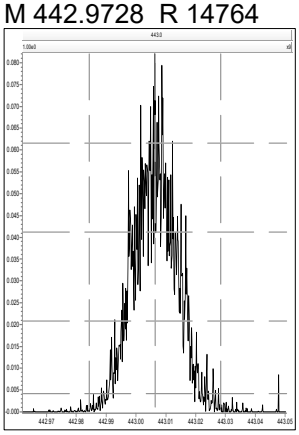
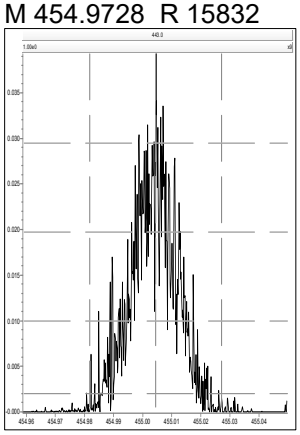


M 442.9728 R 14764



M 454.9728 R 15832



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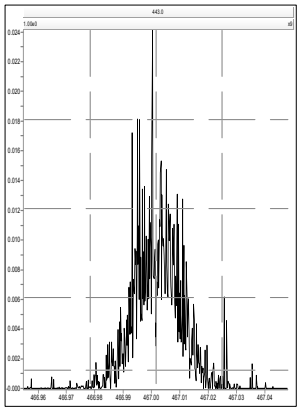
M 466.9728 R 16124



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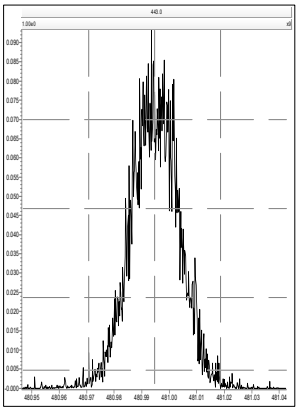

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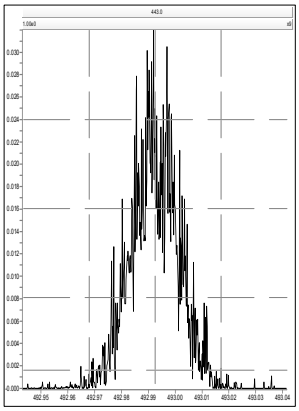
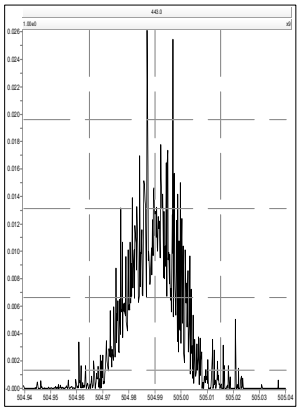
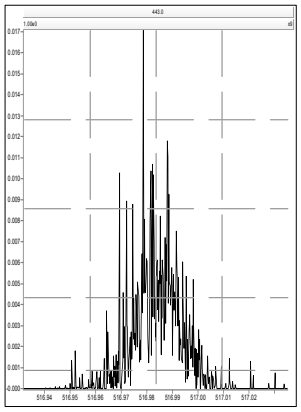


M 504.9696 R 14498



M 516.9697 R 18495



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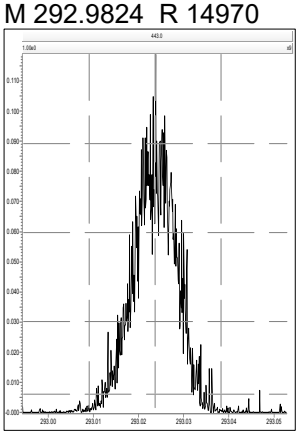
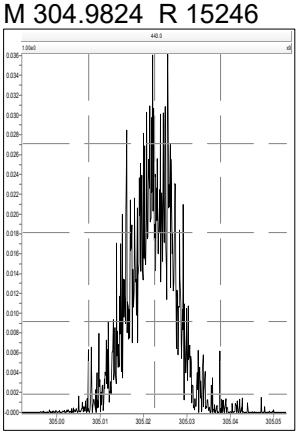
06/26/2023 06/26/2023

M 292.9824 R 14970



M 304.9824 R 15246



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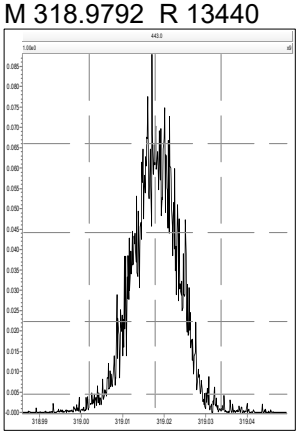

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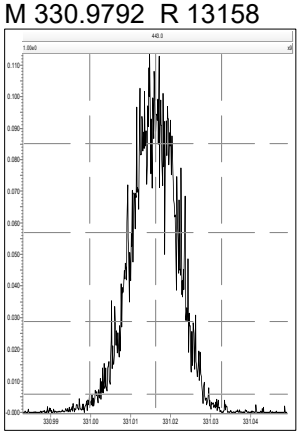
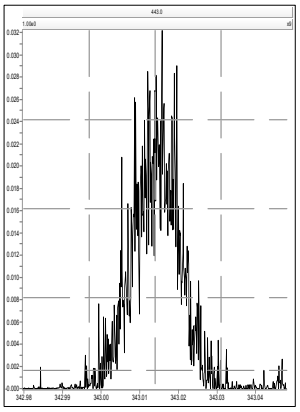


M 342.9792 R 14270



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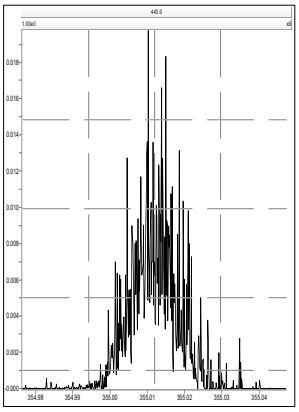

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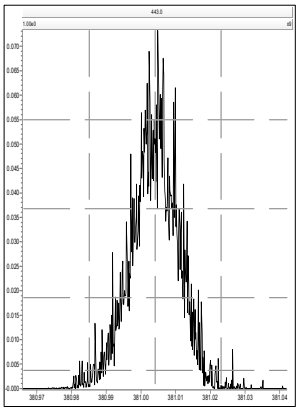

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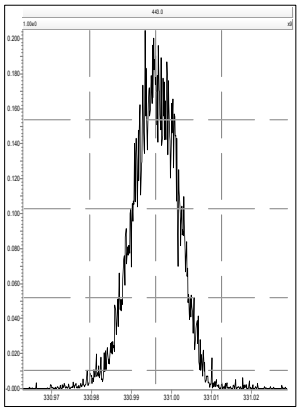

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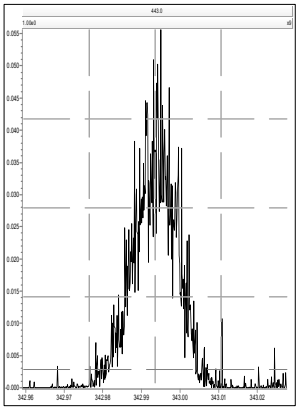

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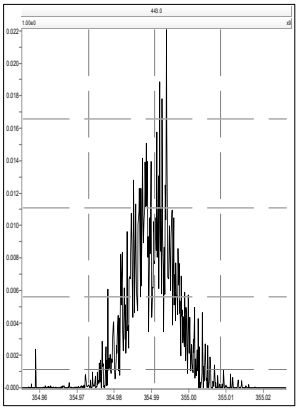

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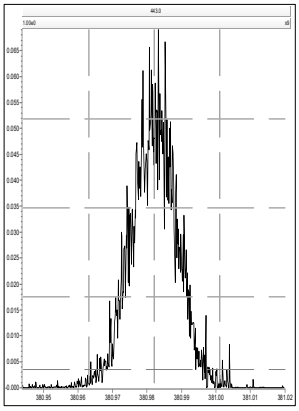

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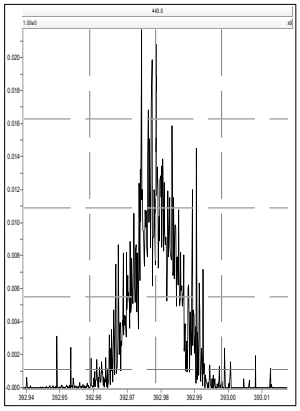

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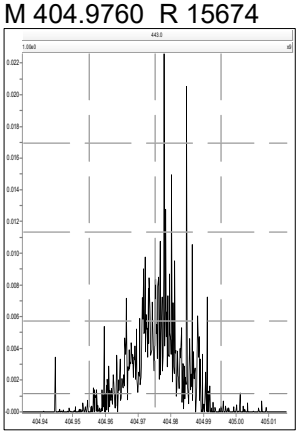

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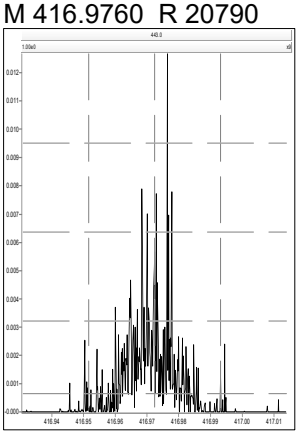

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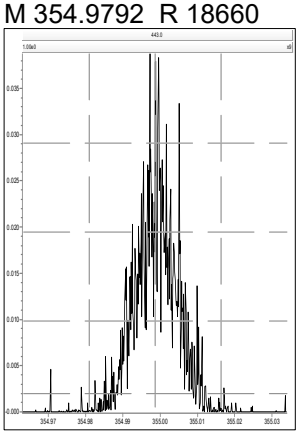
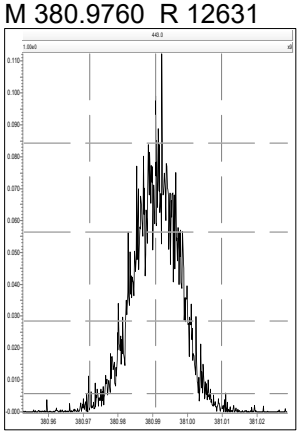


M 380.9760 R 12631



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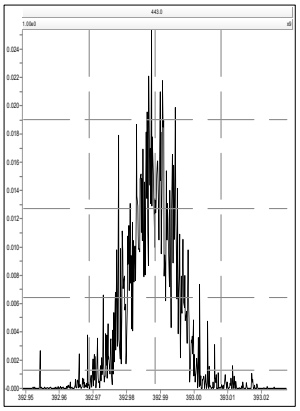
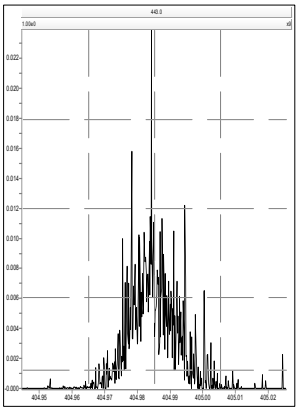
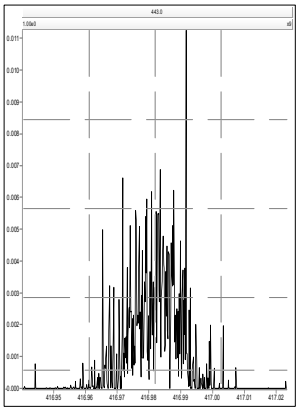
M 392.9760 R 15704



M 404.9760 R 19065



M 416.9760 R 22451



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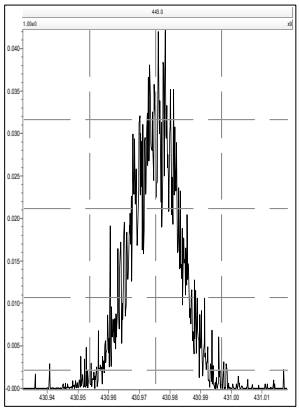
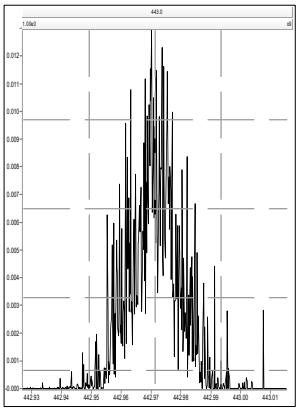
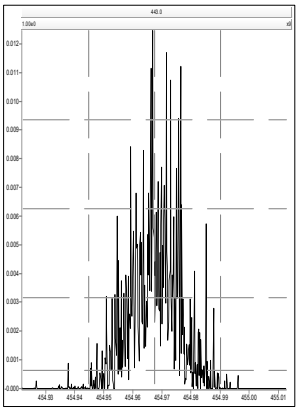


M 442.9728 R 14492



M 454.9728 R 23765



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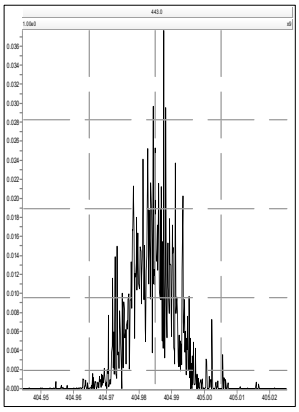

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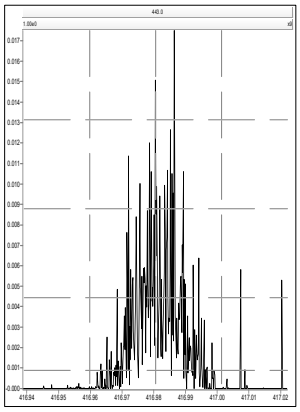

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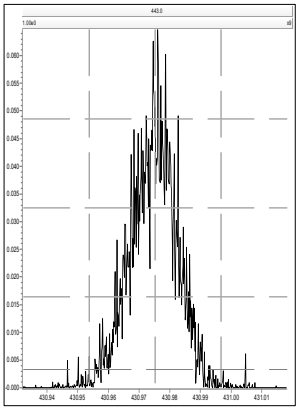
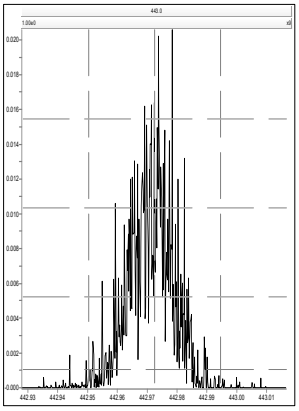
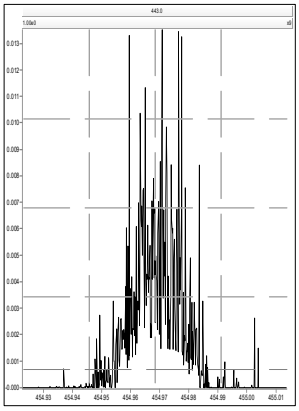


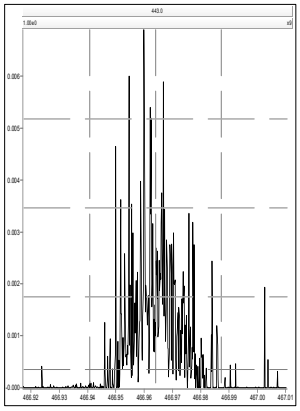
M 442.9728 R 17403



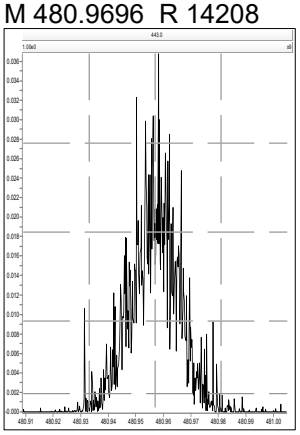
M 454.9728 R 20031



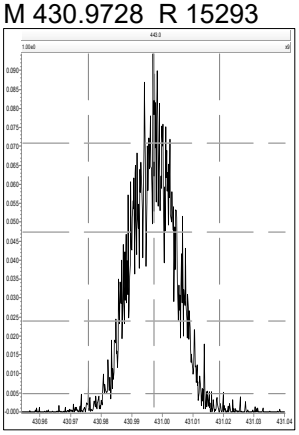
M 466.9728 R 24825



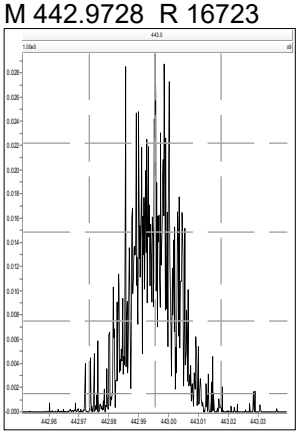
M 480.9696 R 14208



M 430.9728 R 15293



M 442.9728 R 16723



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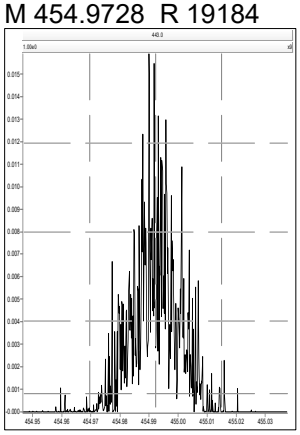

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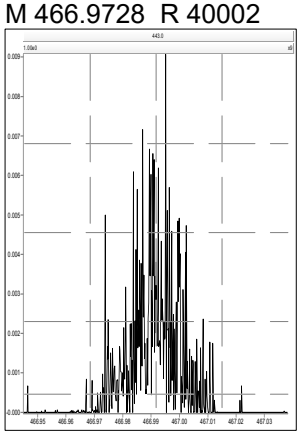

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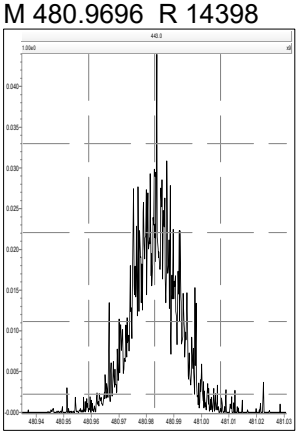

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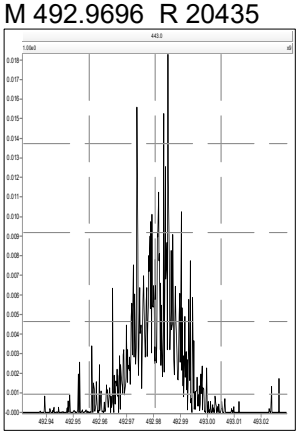

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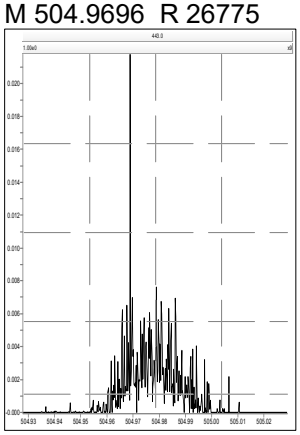

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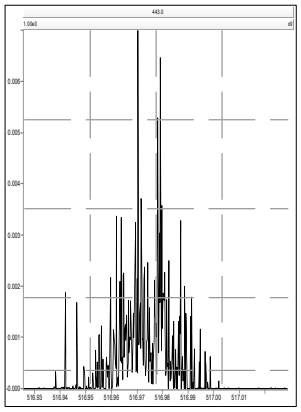
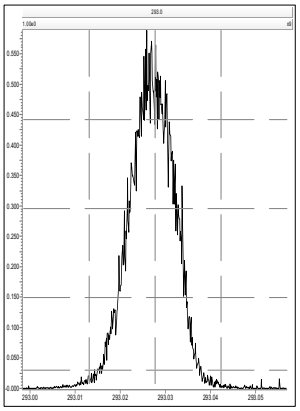


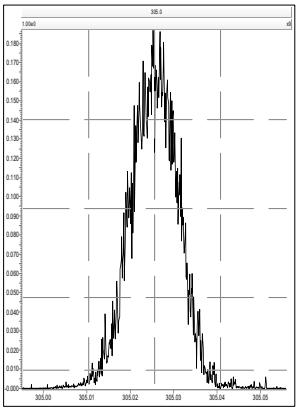
Printed: Saturday, June 24, 2023 20:20:15 Eastern Daylight Time

06/26/2023 06/26/2023

M 292.9824 R 13297



M 304.9824 R 12693



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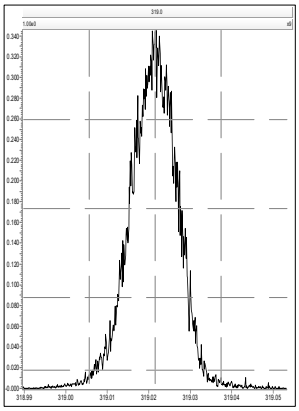
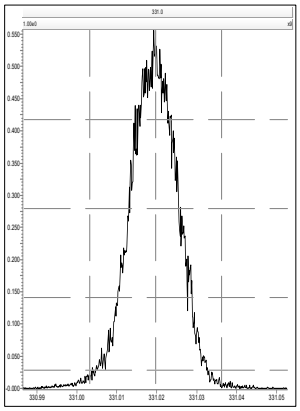
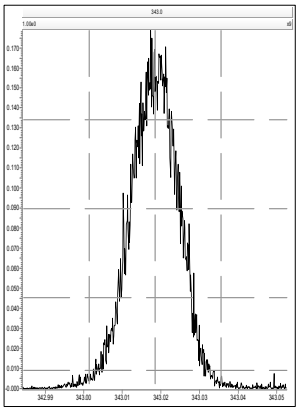


M 330.9792 R 11904



M 342.9792 R 12626



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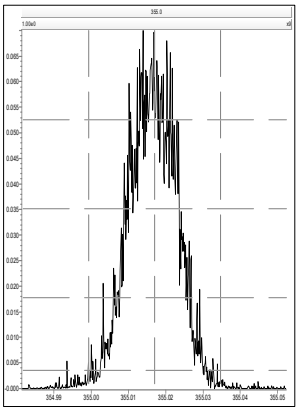

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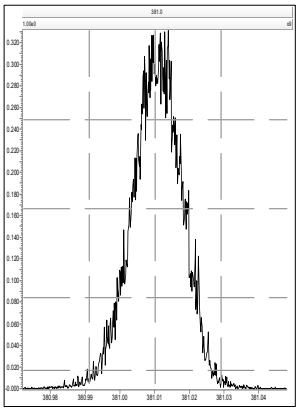

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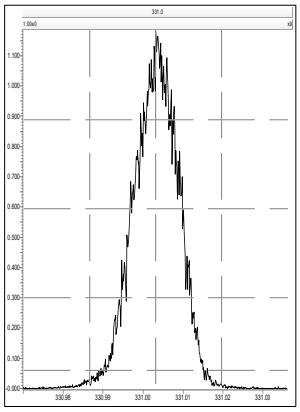
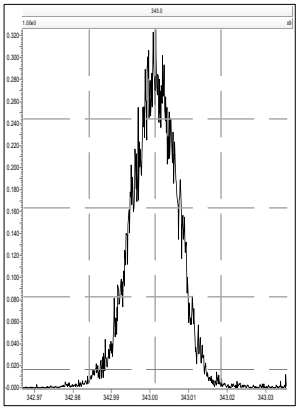
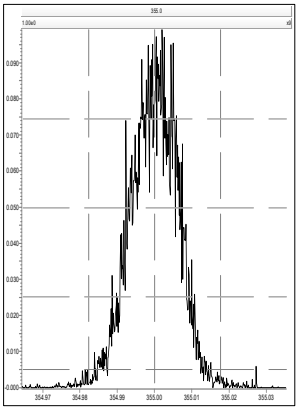


M 342.9792 R 13094



M 354.9792 R 13416



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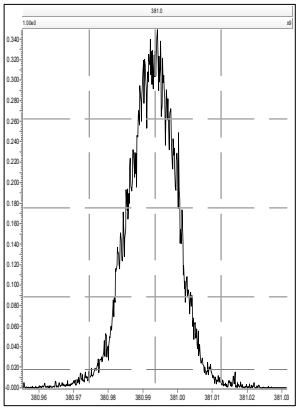

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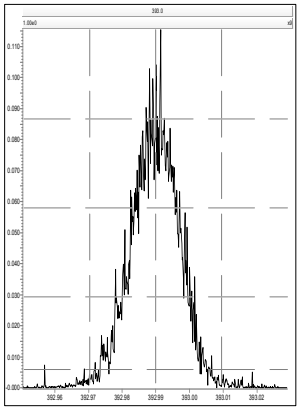

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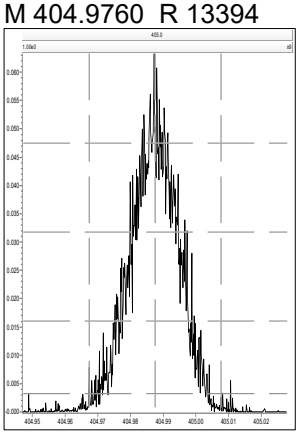
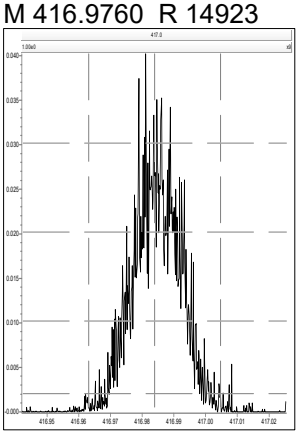
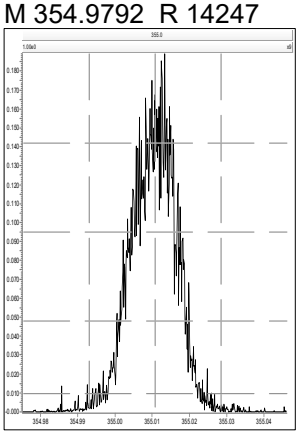


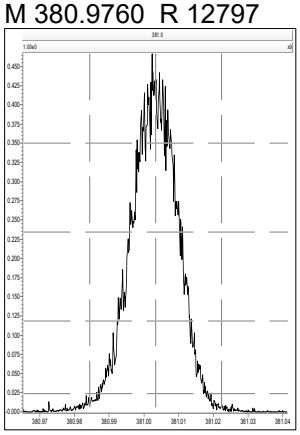
M 416.9760 R 14923



M 354.9792 R 14247



M 380.9760 R 12797



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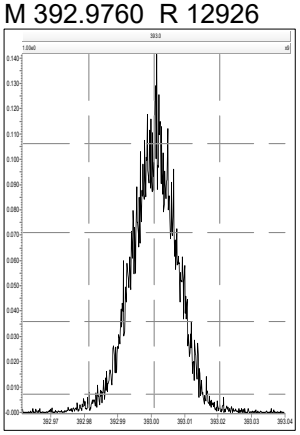
M 392.9760 R 12926



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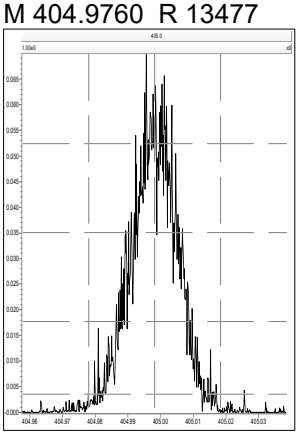

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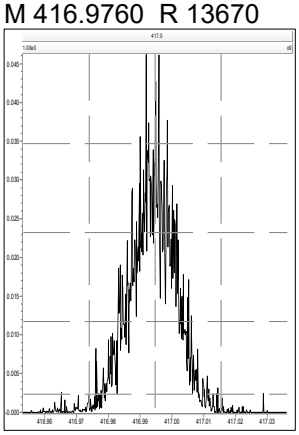
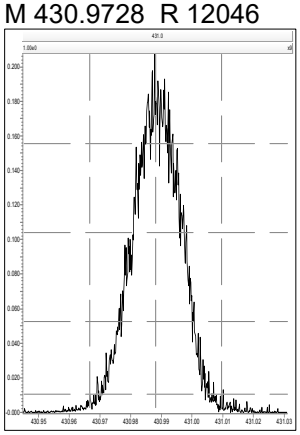
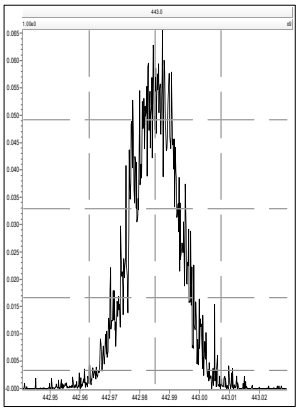


M 430.9728 R 12046



M 442.9728 R 12354



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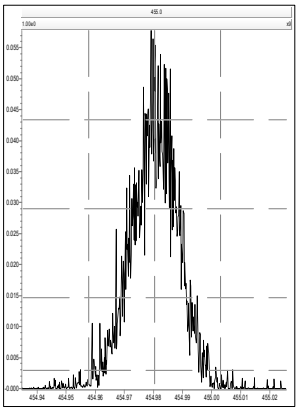
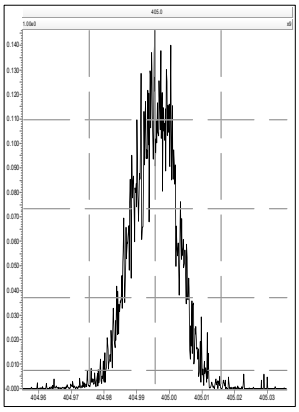


M 404.9760 R 13862



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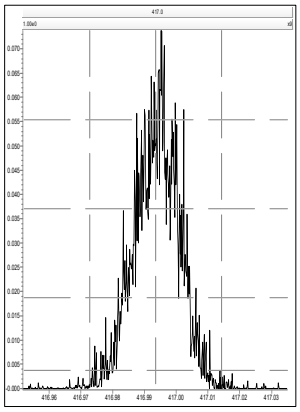
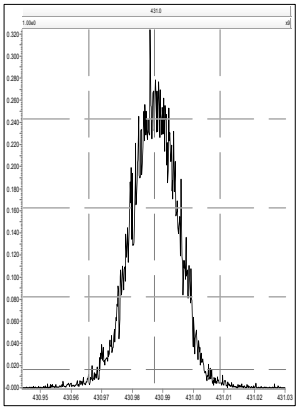
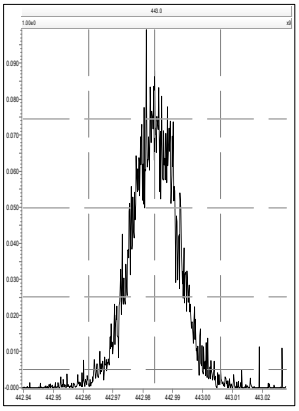


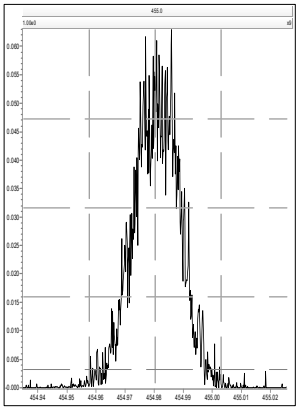
M 430.9728 R 12535



M 442.9728 R 13132



M 454.9728 R 13700



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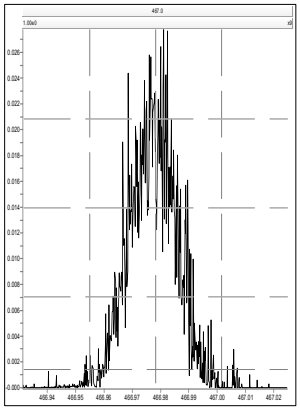
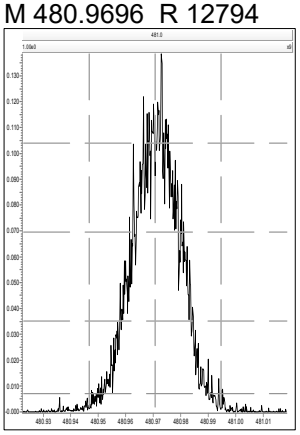


M 480.9696 R 12794



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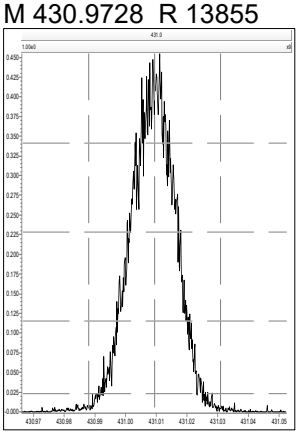
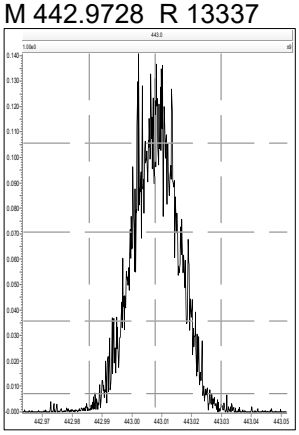


M 442.9728 R 13337



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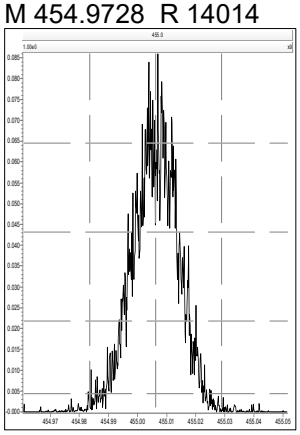

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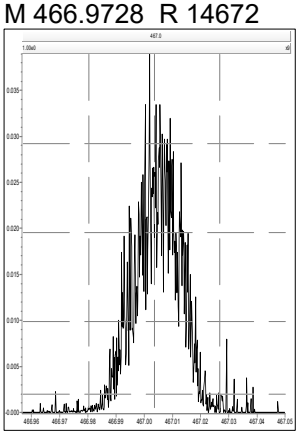
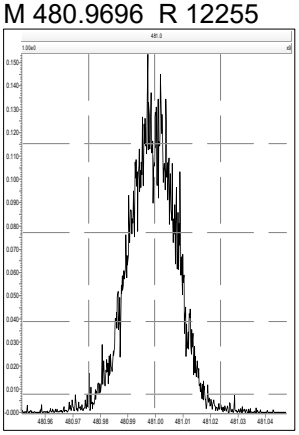
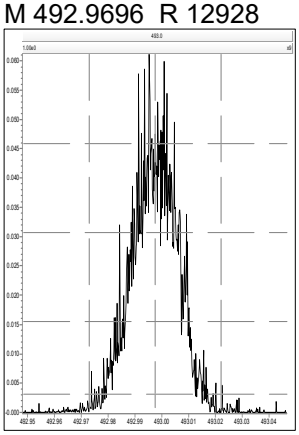
M 466.9728 R 14672



M 480.9696 R 12255



M 492.9696 R 12928



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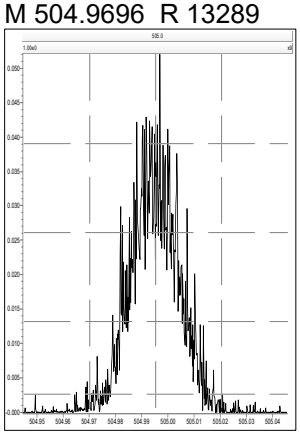
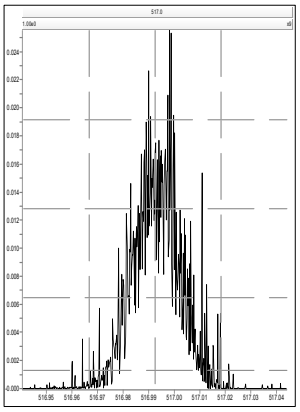
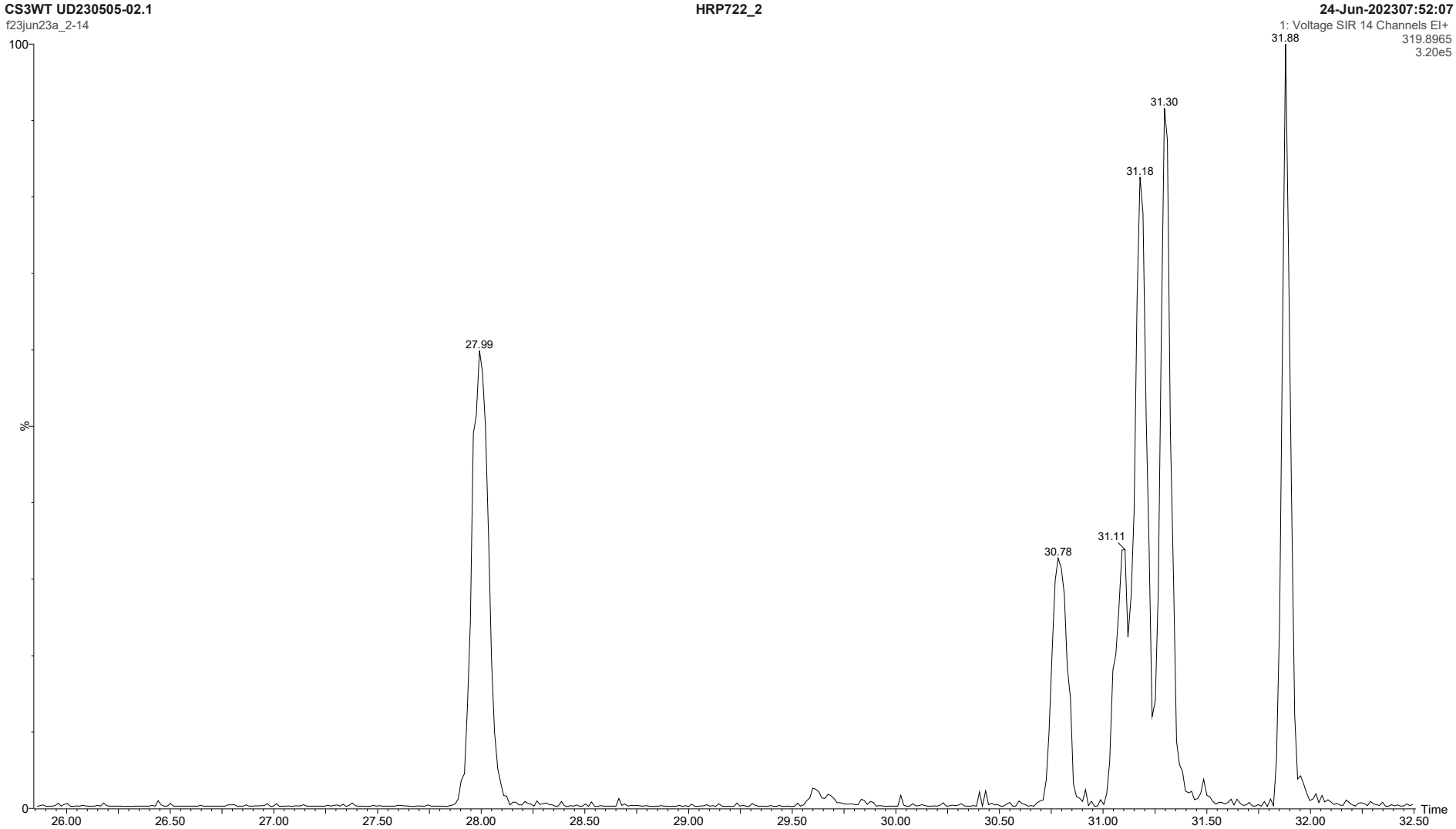


M 516.9697 R 14495



COLUMN CHECK (2378-TCDD 13%)



06/26/2023 06/26/2023

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:07 Eastern Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\WDM_f21jun23.mdb 21 Jun 2023 15:32:13
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

	Name	RT
1	First TCDF	26.27
2	Last TCDF	31.97
3	First PeCDF	31.94
4	Last PeCDF	34.62
5	First HxCDF	35.10
6	Last HxCDF	37.43
7	First HpCDF	38.90
8	Last HpCDF	40.83
9	OCDF	44.68
10	First TCDD	27.99
11	2378-TCDD	31.30
12	Last TCDD	31.88
13	First PeCDD	32.81
14	Last PeCDD	34.42
15	First HxCDD	35.53
16	Last HxCDD	37.10
17	First HpCDD	39.23
18	Last HpCDD	40.16
19	OCDD	44.38

Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:28 Eastern Daylight Time

06/26/2023

Method: C:\MassLynx\Default.PRO\MethDB\WDM_f21jun23.mdb 21 Jun 2023 15:32:13
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

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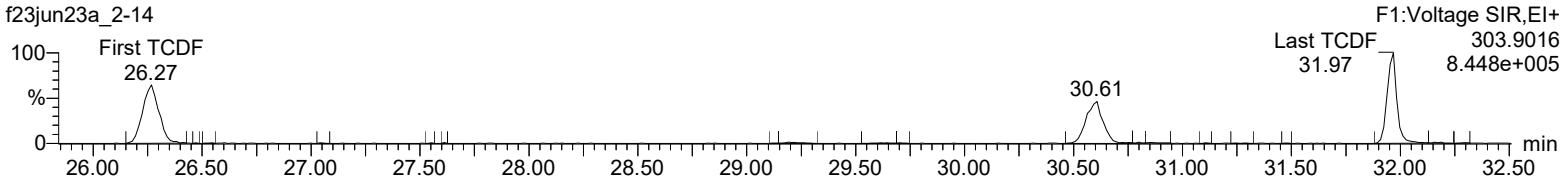
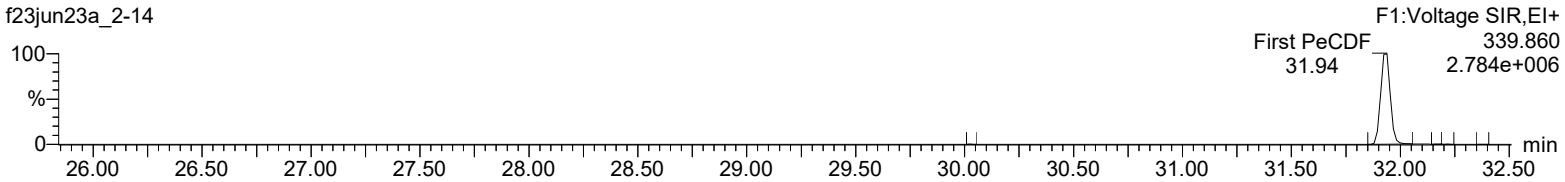


First PeCDF



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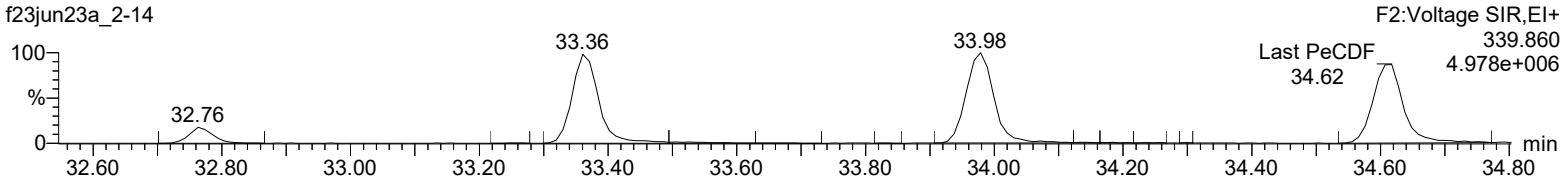

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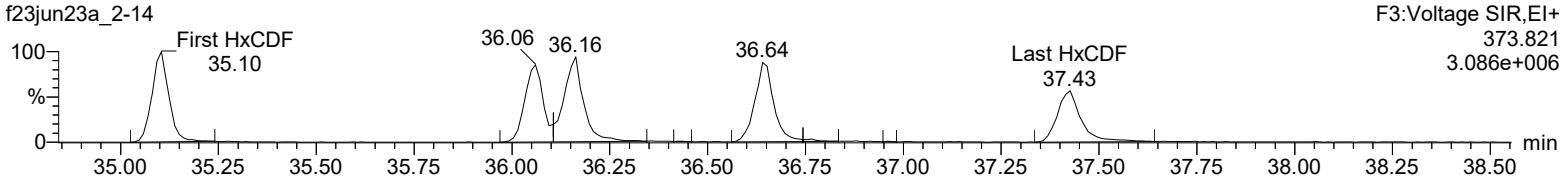
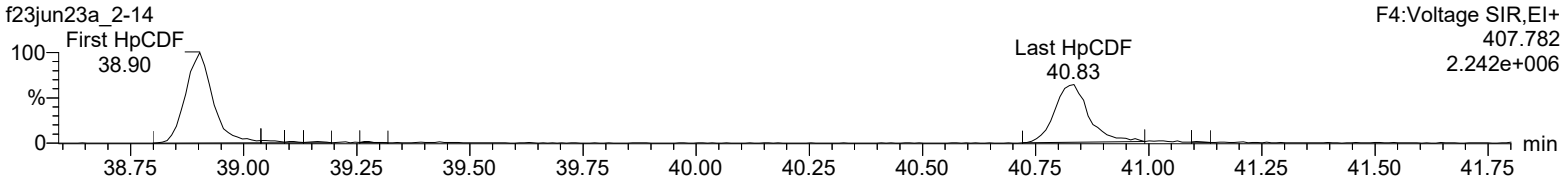
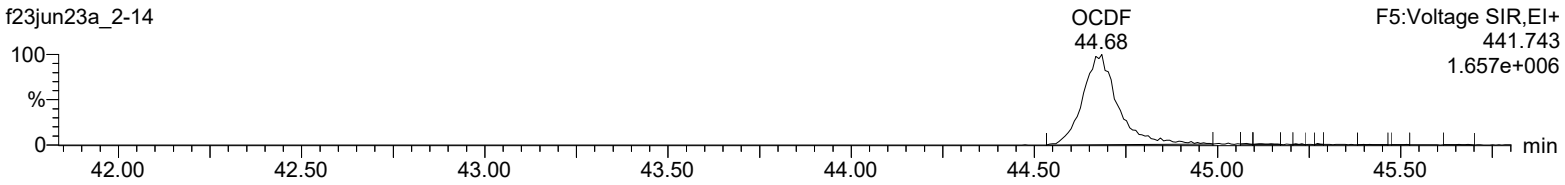


First HpCDF



OCDF



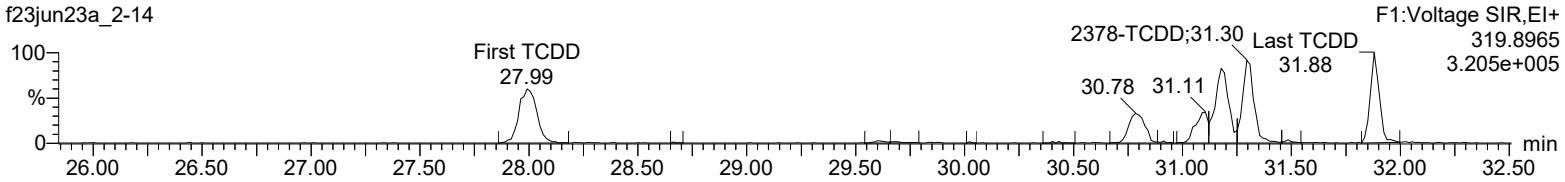
Quantify Sample Report **MassLynx 4.2 SCN992**
Method Window Defining Report

Dataset: C:\MassLynx\Default.pro\WDM\wdm-f23jun23a_2-14.qld

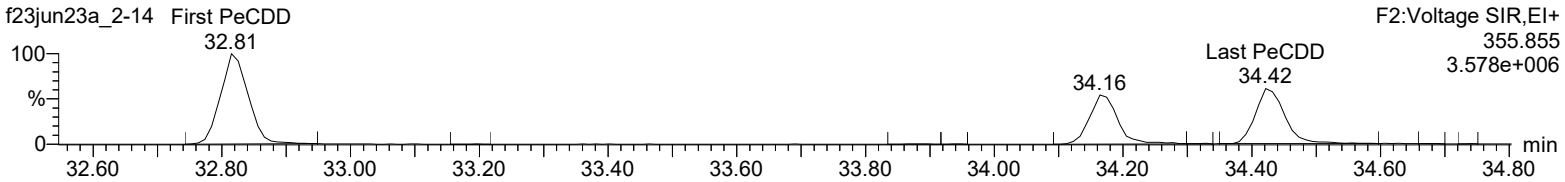
Last Altered: Monday, June 26, 2023 10:01:08 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:02:28 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

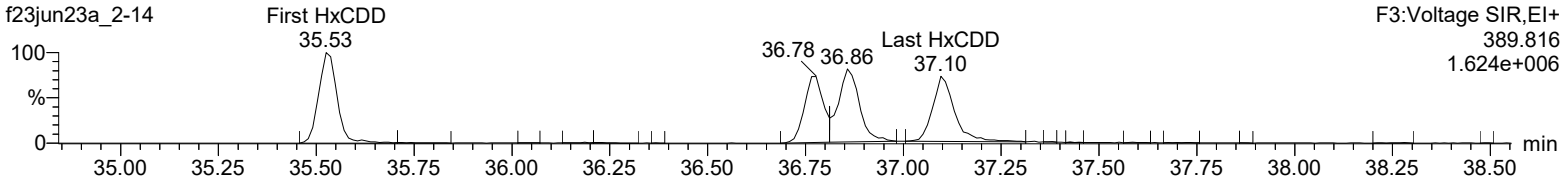
First TCDD



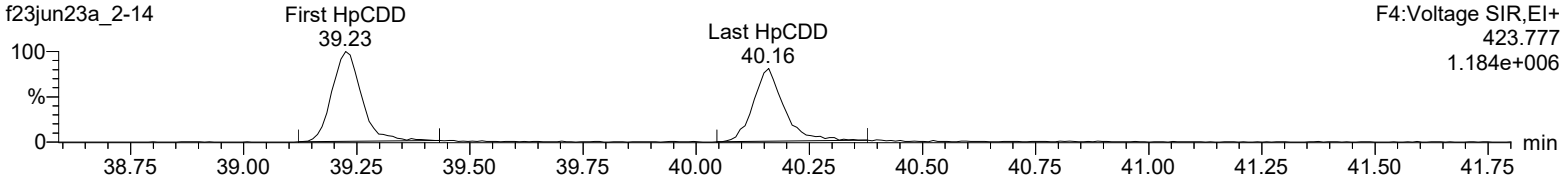
First PeCDD



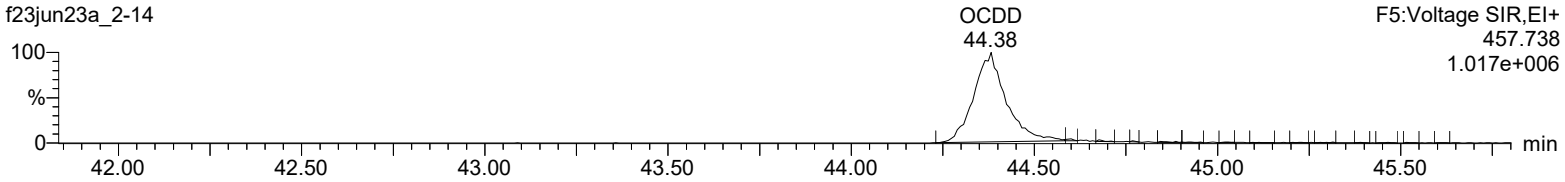
First HxCDD



First HpCDD



OCDD



Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:47 Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
1	2378-TCDD	1.76e4	2.33e4	4.09e4	31.30	1.000	0.75	NO	10.683	0.144	1.175	1.100	6.8	2.92e5	1873	156.0	3.60e5	1588	226.4	dd	dd
2	12378-PeCDD	9.84e4	5.77e4	1.56e5	34.16	1.000	1.70	NO	49.179	0.624	1.145	1.164	-1.6	1.94e6	7931	244.8	1.11e6	7205	154.6	bd	bd
3	123478-HxCDD	6.71e4	5.39e4	1.21e5	36.78	1.000	1.25	NO	49.110	0.572	1.053	1.073	-1.8	1.19e6	5099	233.7	9.45e5	4898	193.0	bd	bd
4	123678-HxCDD	8.49e4	7.04e4	1.55e5	36.86	1.000	1.21	NO	50.570	0.511	1.076	1.064	1.1	1.33e6	5099	259.9	1.05e6	4898	213.6	dd	dd
5	123789-HxCDD	7.94e4	6.32e4	1.43e5	37.10	1.007	1.26	NO	51.601	0.539	1.100	1.066	3.2	1.19e6	5099	232.9	8.95e5	4898	182.8	db	dd
6	1234678-HpCDD	7.45e4	6.46e4	1.39e5	40.16	1.001	1.15	NO	49.634	1.07	1.219	1.228	-0.7	9.55e5	7380	129.3	8.26e5	7105	116.3	bb	bb
7	OCDD	1.02e5	1.12e5	2.14e5	44.38	1.001	0.92	NO	100.217	1.36	1.109	1.107	0.2	1.00e6	4049	248.2	1.02e6	6612	154.6	bd	bd
8	2378-TCDF	3.50e4	4.33e4	7.83e4	30.61	1.001	0.81	NO	10.401	0.174	1.407	1.352	4.0	3.90e5	2447	159.5	4.43e5	2973	148.9	bd	bd
9	12378-PeCDF	2.33e5	1.42e5	3.75e5	33.36	1.000	1.64	NO	53.395	0.396	1.360	1.274	6.8	4.89e6	11430	427.9	2.85e6	11658	244.9	bd	bd
10	23478-PeCDF	2.47e5	1.48e5	3.96e5	33.98	1.000	1.67	NO	51.596	0.370	1.439	1.394	3.2	4.96e6	11430	434.0	3.14e6	11658	269.8	bd	bb
11	123478-HxCDF	1.43e5	1.08e5	2.51e5	36.06	1.000	1.32	NO	49.038	0.445	1.391	1.418	-1.9	2.63e6	8750	300.0	1.94e6	7817	247.7	bd	bd
12	123678-HxCDF	1.65e5	1.28e5	2.94e5	36.16	1.000	1.29	NO	48.941	0.426	1.349	1.378	-2.1	2.89e6	8750	330.3	2.16e6	7817	275.8	db	db
13	234678-HxCDF	1.51e5	1.12e5	2.64e5	36.64	1.000	1.35	NO	48.111	0.471	1.368	1.422	-3.8	2.70e6	8750	308.0	1.99e6	7817	254.2	bd	bb
14	123789-HxCDF	1.20e5	8.73e4	2.07e5	37.43	1.000	1.37	NO	50.722	0.683	1.321	1.302	1.4	1.74e6	8750	198.8	1.25e6	7817	159.5	bb	bd
15	1234678-HpCDF	1.56e5	1.56e5	3.12e5	38.90	1.001	1.00	NO	51.885	0.528	1.436	1.384	3.8	2.24e6	9736	230.0	2.19e6	8260	265.6	bd	bd
16	1234789-HpCDF	1.25e5	1.22e5	2.46e5	40.83	1.001	1.02	NO	52.252	0.837	1.425	1.364	4.5	1.43e6	9736	147.1	1.43e6	8260	173.6	bb	bb
17	OCDF	1.81e5	1.95e5	3.76e5	44.68	1.007	0.93	NO	111.040	0.933	1.946	1.752	11.0	1.65e6	7700	214.2	1.71e6	3911	438.5	bb	bd
18	13C-2378-TCDD	1.57e5	1.91e5	3.48e5	31.28	1.017	0.82	NO	96.507	0.292	1.099	1.139	-3.5	2.47e6	2468	1002.7	3.07e6	2721	1128.9	bd	bd
19	13C-12378-PeCDD	1.70e5	1.03e5	2.73e5	34.15	1.110	1.65	NO	105.719	0.684	0.860	0.813	5.7	3.24e6	5614	577.6	2.00e6	3069	651.0	bd	bd
20	13C-123478-HxCDD	1.28e5	1.01e5	2.30e5	36.77	0.991	1.26	NO	96.209	0.661	0.815	0.847	-3.8	2.28e6	5266	432.1	1.86e6	3455	538.0	bd	bd
21	13C-123678-HxCDD	1.61e5	1.27e5	2.89e5	36.85	0.994	1.27	NO	99.723	0.546	1.024	1.027	-0.3	2.57e6	5266	487.7	1.98e6	3455	574.1	dd	dd
22	13C-1234678-HpCDD	1.19e5	1.09e5	2.28e5	40.14	1.082	1.09	NO	101.217	0.783	0.810	0.800	1.2	1.44e6	5267	273.0	1.32e6	4492	293.6	bd	bd
23	13C-OCDD	1.83e5	2.03e5	3.86e5	44.36	1.196	0.90	NO	210.036	1.02	0.685	0.653	5.0	1.68e6	5114	329.4	1.91e6	5285	361.5	bd	bd
24	13C-2378-TCDF	2.52e5	3.05e5	5.57e5	30.58	0.994	0.82	NO	101.262	0.238	1.756	1.734	1.3	2.61e6	4345	600.7	3.15e6	2094	1506.4	bd	bd
25	13C-12378-PeCDF	3.43e5	2.08e5	5.51e5	33.35	1.084	1.65	NO	101.177	0.964	1.739	1.719	1.2	7.13e6	15320	465.2	4.33e6	10554	410.4	bd	bd
26	13C-23478-PeCDF	3.46e5	2.04e5	5.50e5	33.97	1.104	1.69	NO	107.181	1.02	1.735	1.619	7.2	7.04e6	15320	459.6	4.25e6	10554	402.7	bd	db
27	13C-123478-HxCDF	1.24e5	2.38e5	3.62e5	36.05	0.972	0.52	NO	99.408	0.849	1.284	1.291	-0.6	2.25e6	8503	264.5	4.33e6	8555	506.0	bd	bd
28	13C-123678-HxCDF	1.52e5	2.83e5	4.35e5	36.15	0.975	0.54	NO	96.678	0.686	1.545	1.598	-3.3	2.47e6	8503	290.3	4.61e6	8555	539.3	dd	dd
29	13C-234678-HxCDF	1.34e5	2.51e5	3.86e5	36.64	0.988	0.53	NO	102.312	0.819	1.369	1.338	2.3	2.15e6	8503	253.1	4.10e6	8555	479.1	bd	bd
30	13C-123789-HxCDF	1.05e5	2.09e5	3.14e5	37.41	1.009	0.50	NO	93.610	0.921	1.114	1.190	-6.4	1.56e6	8503	183.0	2.90e6	8555	339.5	bd	bd

Quantify Sample Summary Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:47 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

#	Name	Ion1Area	Ion2Area	Response	RT	RRT	RA	Fail?	pg/uL	EDL	RRF	ICRRF	%D	Height1	Noise1	S/N1	Height2	Noise2	S/N2	M	M2
31	13C-1234678-HpCDF	1.35e5	2.99e5	4.34e5	38.88	1.048	0.45	NO	100.345	0.789	1.542	1.537	0.3	1.92e6	7322	261.9	4.09e6	11558	353.5	bb	bd
32	13C-1234789-HpCDF	1.11e5	2.35e5	3.46e5	40.81	1.101	0.47	NO	102.489	1.01	1.228	1.198	2.5	1.27e6	7322	172.9	2.67e6	11558	231.3	bd	bd
33	13C-1234-TCDD	1.43e5	1.74e5	3.17e5	30.77	0.000	0.82	NO	100.000	0.332	1.000	1.000	0.0	1.76e6	2468	713.4	2.15e6	2721	790.2	bd	bd
34	13C-123789-HxCDD	1.56e5	1.25e5	2.82e5	37.08	0.000	1.25	NO	100.000	0.560	1.000	1.000	0.0	2.16e6	5266	410.3	1.65e6	3455	478.1	dd	dd
35	37Cl-2378-TCDD	3.63e4		3.63e4	31.30	1.017			10.192	0.105	1.146	1.124	1.9	5.81e5	1848	314.5				bb	

Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

06/26/2023

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

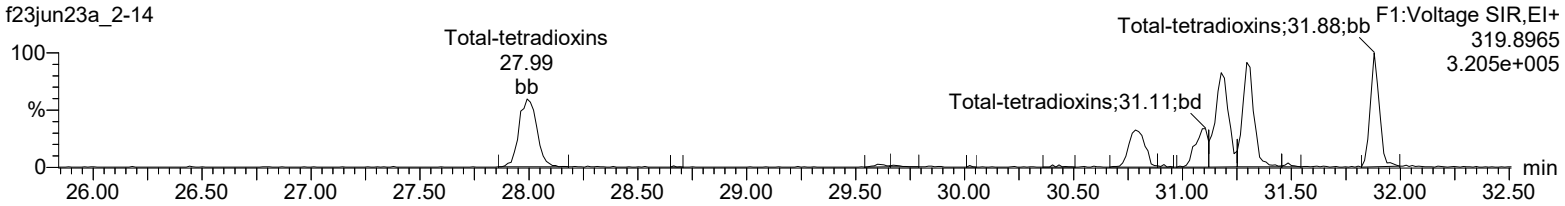
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

06/26/2023

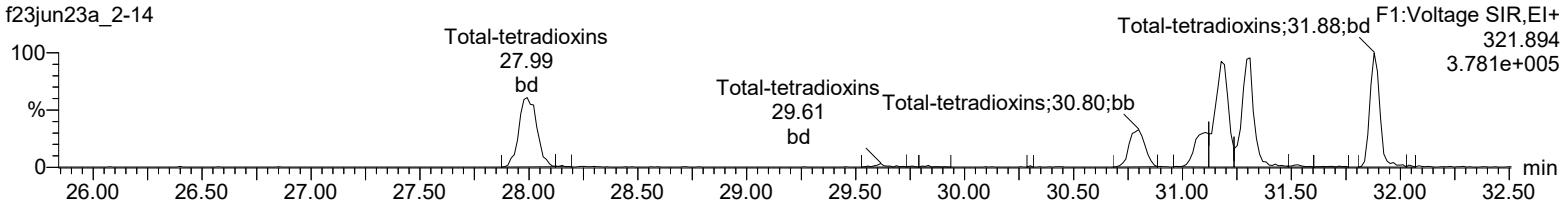
Method: C:\MassLynx\Default.pro\Methdb\CFA_1613_f21jun23.mdb 21 Jun 2023 15:44:02
Calibration: C:\MassLynx\Default.PRO\CurveDB\CFA_1613_f01jun23a.cdb 05 Jun 2023 15:23:33

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

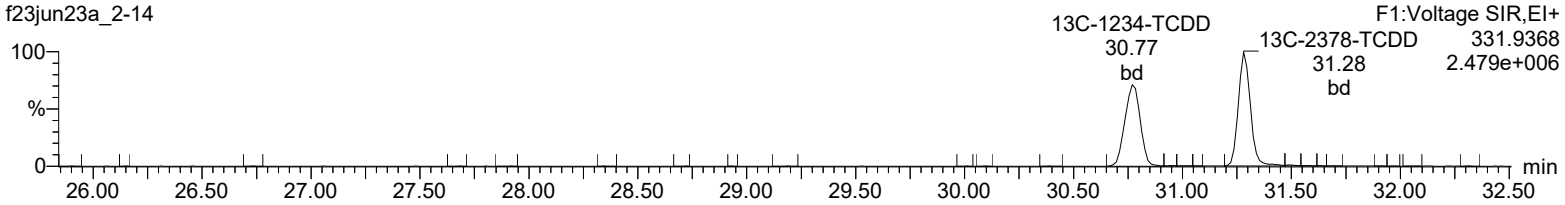
Total-tetradioxins



Total-tetradioxins



13C-2378-TCDD



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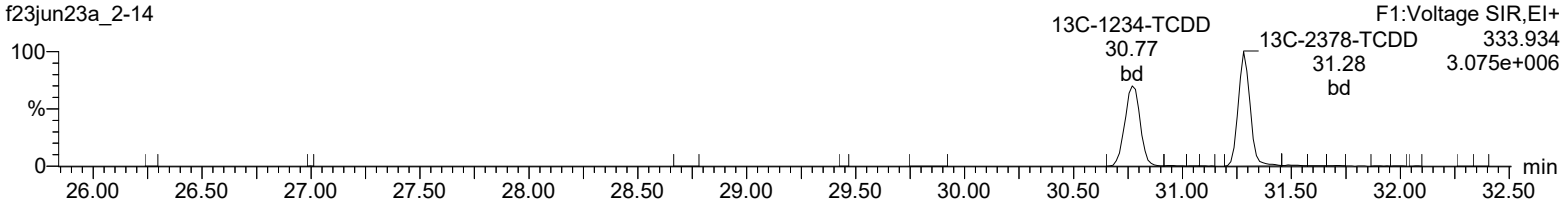

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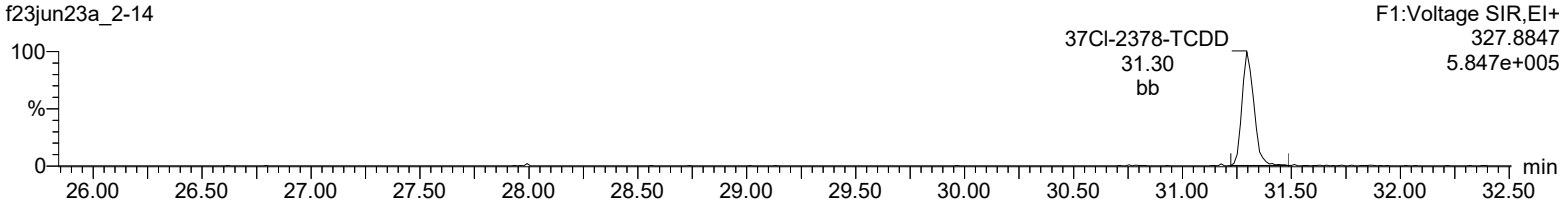
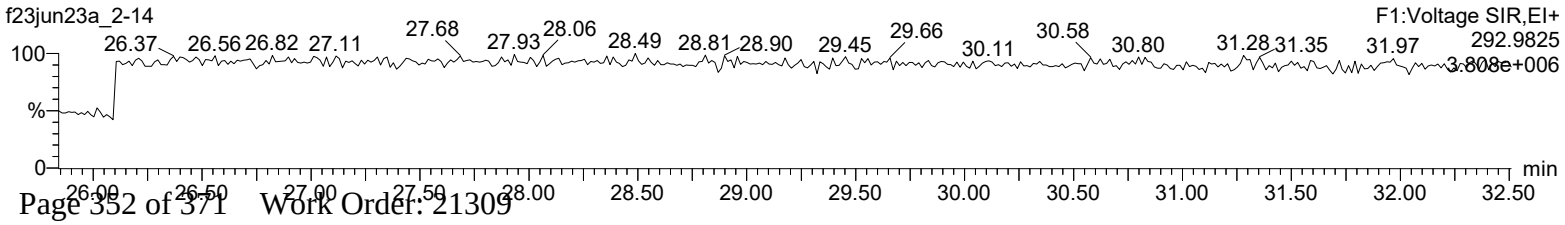


Lock Mass F1



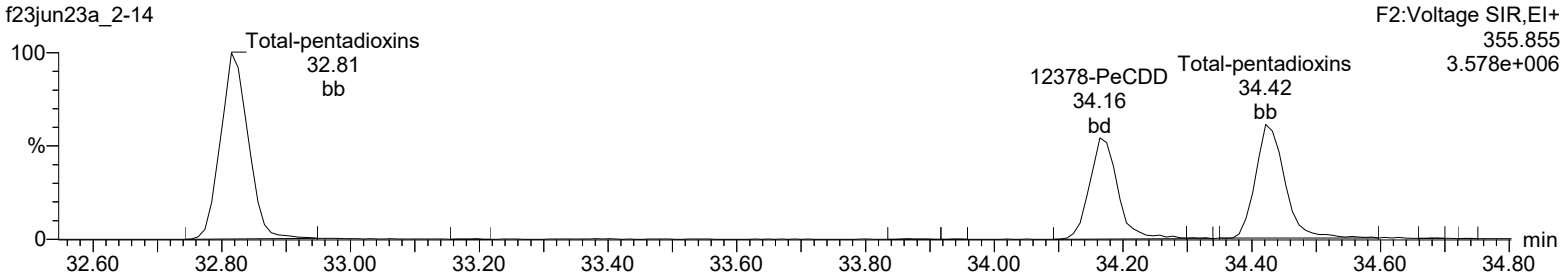
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

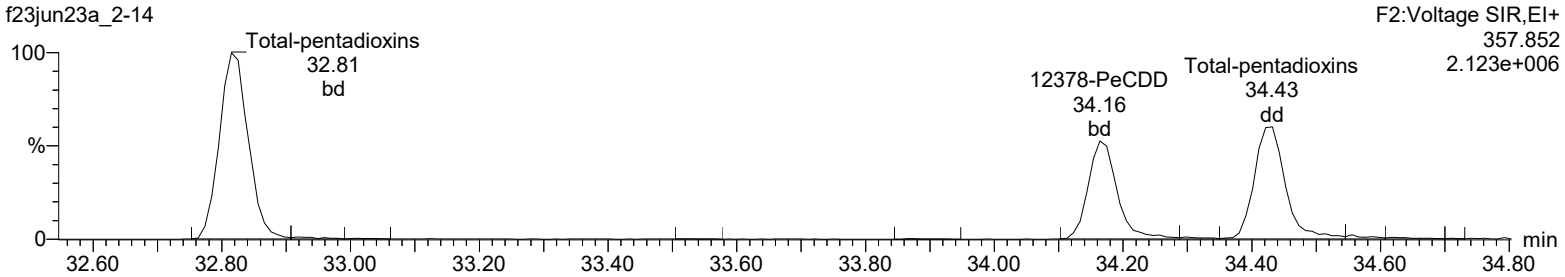
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

Total-pentadioxins



Total-pentadioxins



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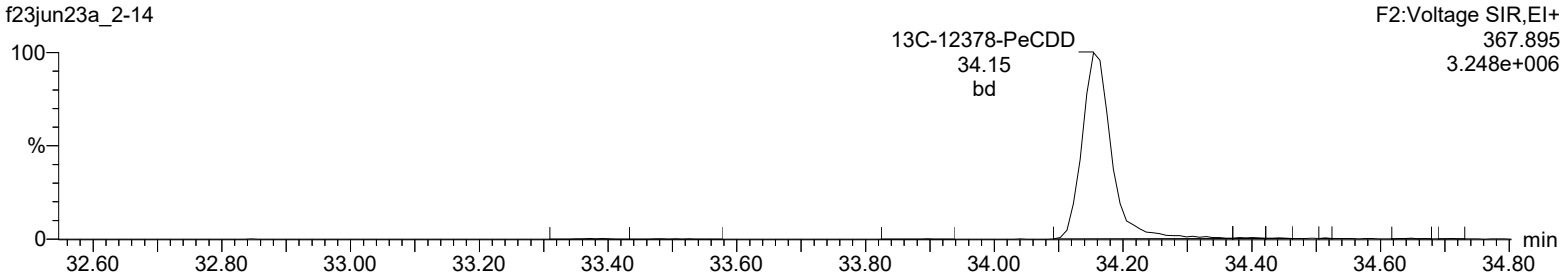

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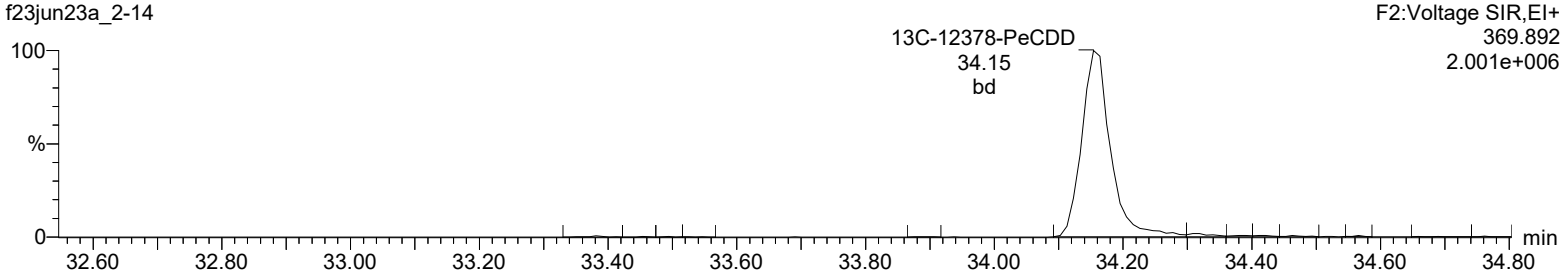
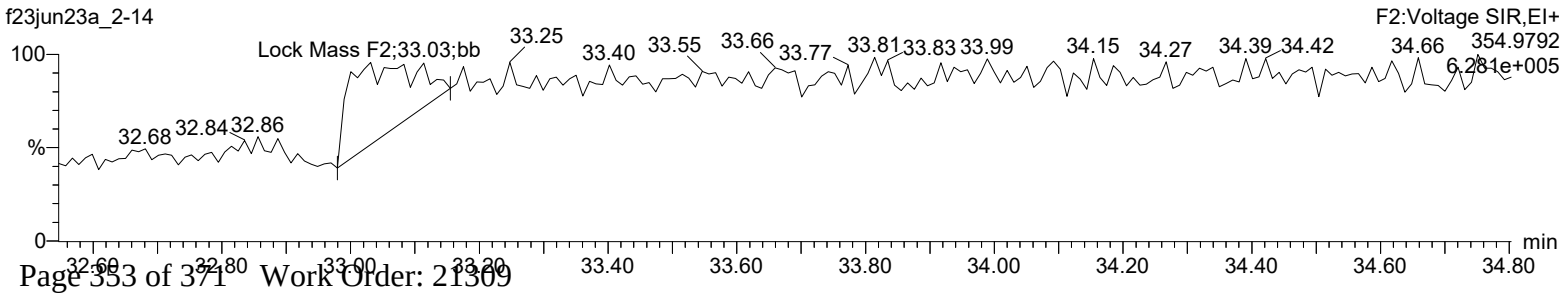


Lock Mass F2



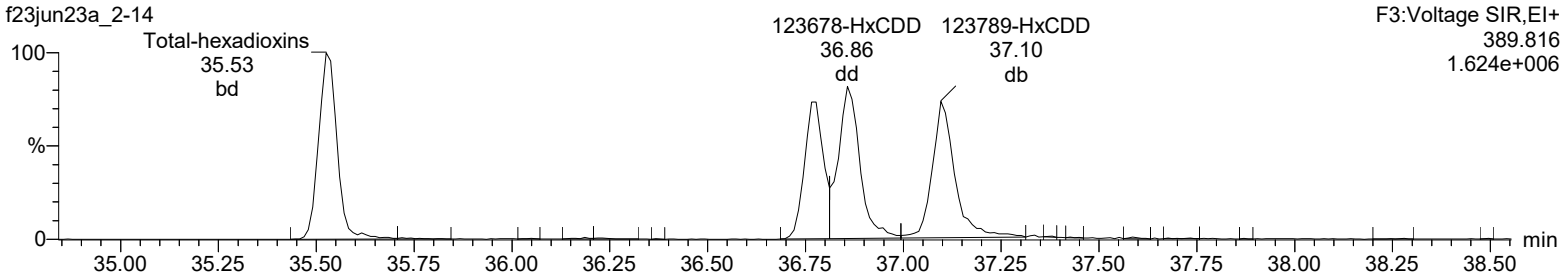
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

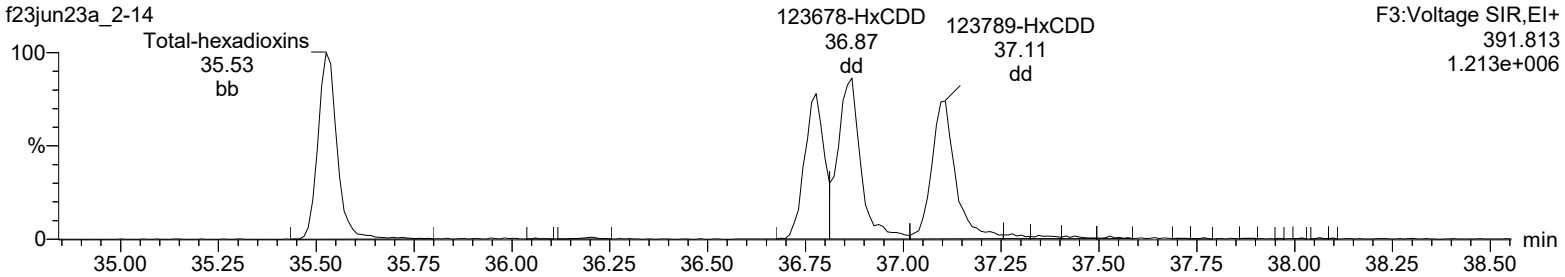
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

Total-hexadioxins



Total-hexadioxins



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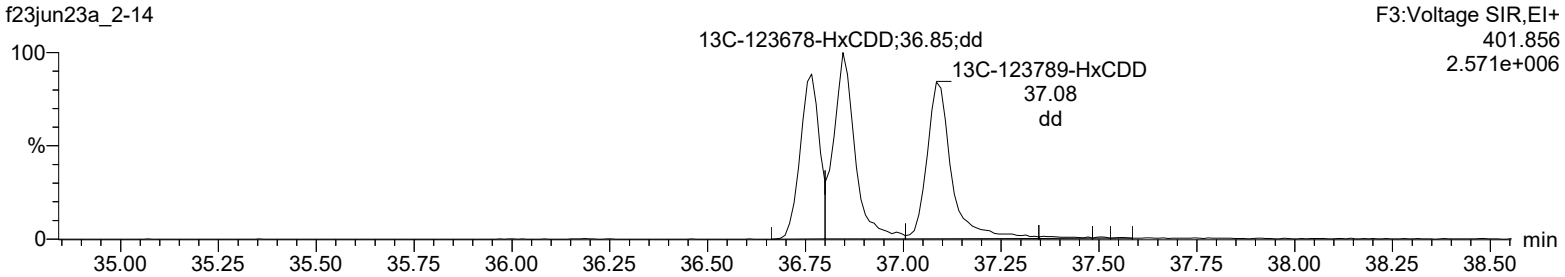

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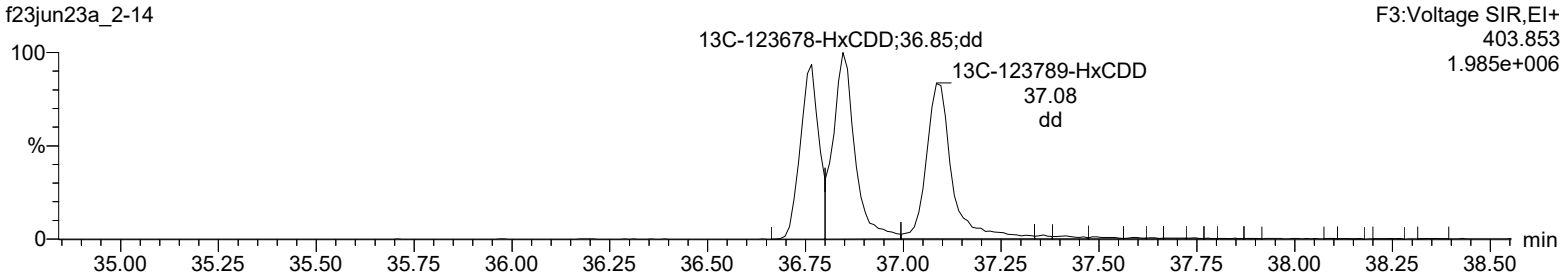
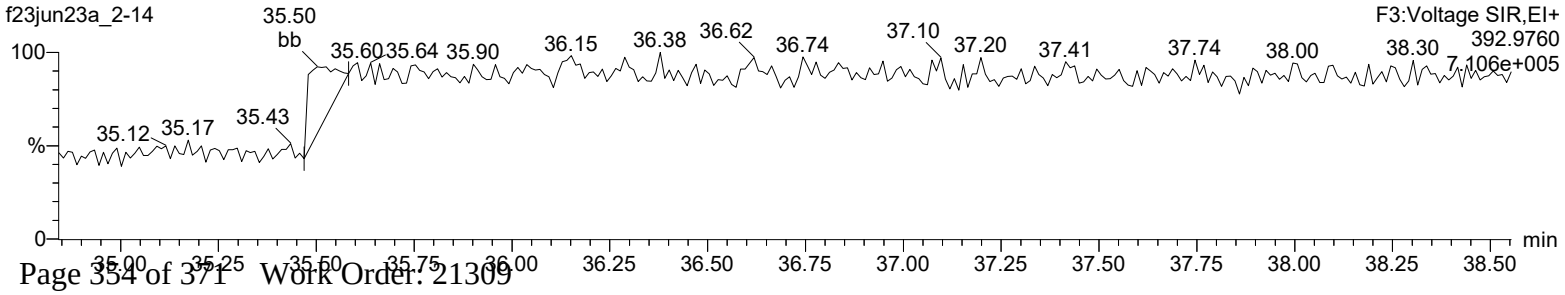


Lock Mass F3



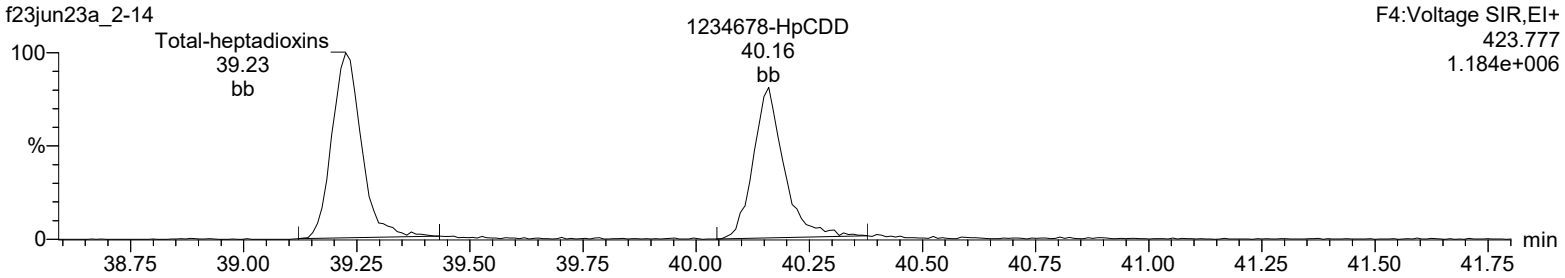
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

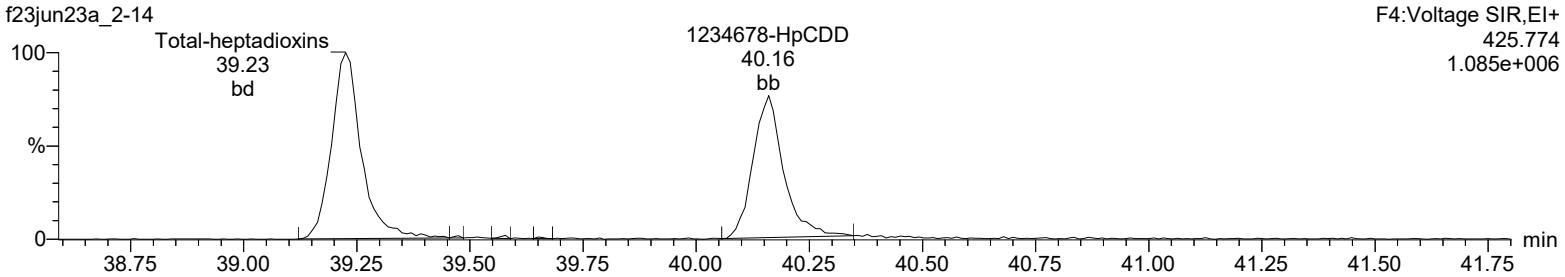
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

Total-heptadioxins



Total-heptadioxins



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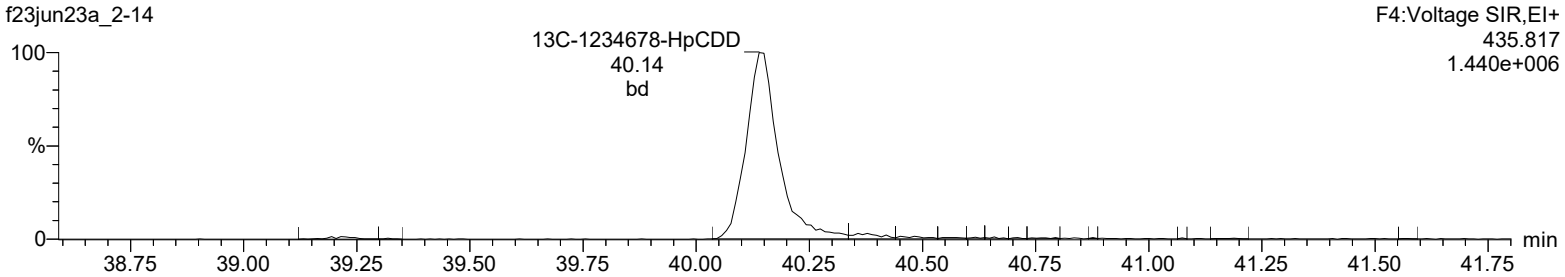
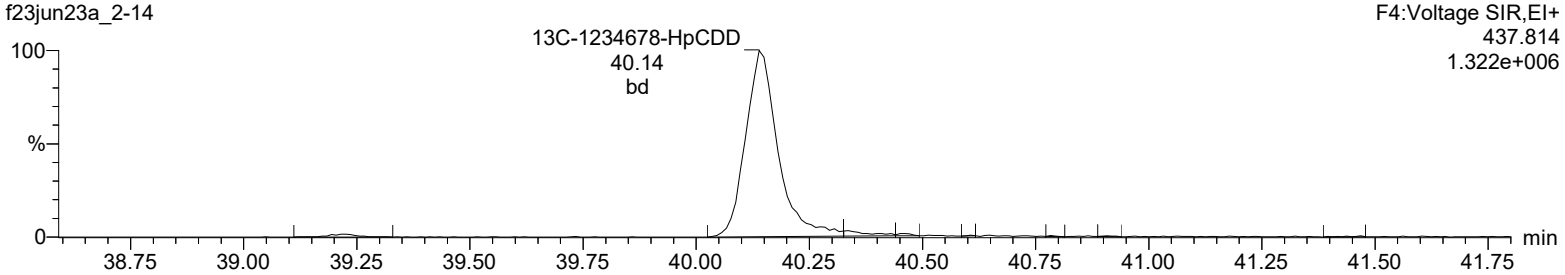
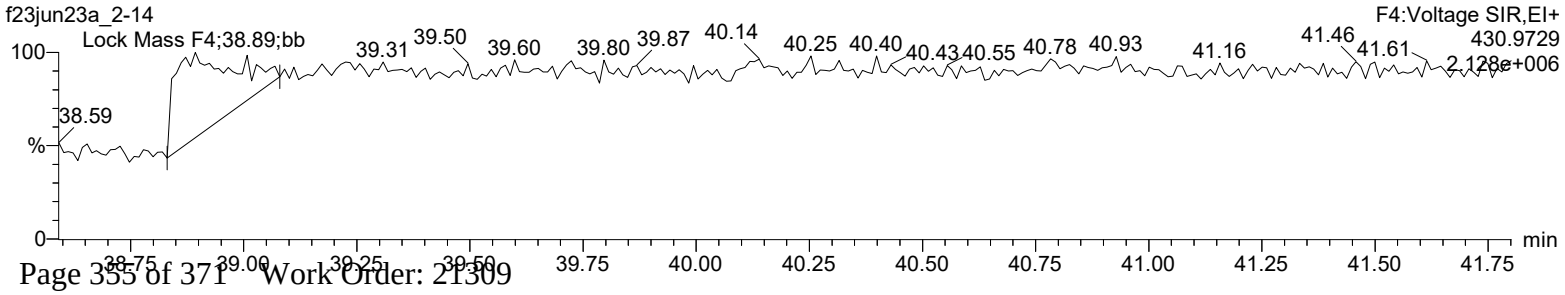


13C-1234678-HpCDD



Lock Mass F4



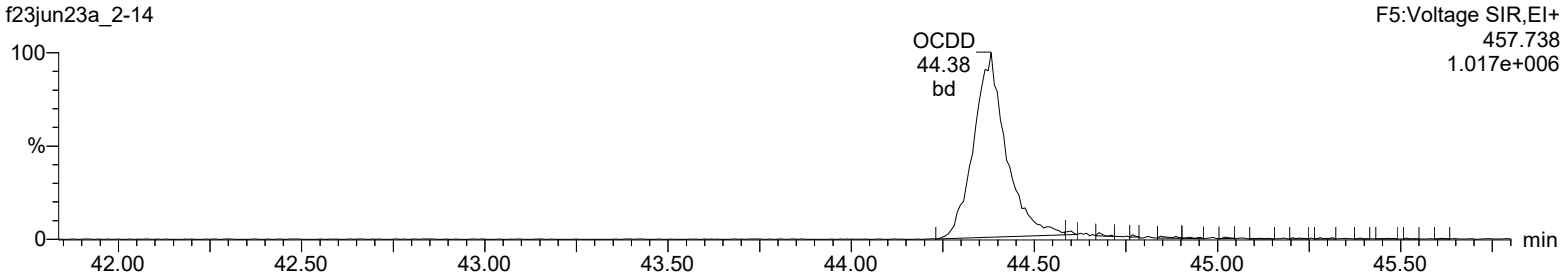
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

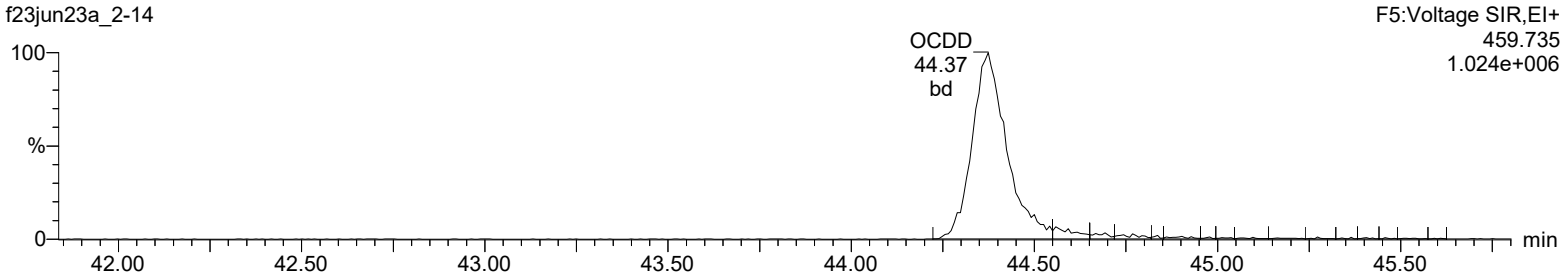
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

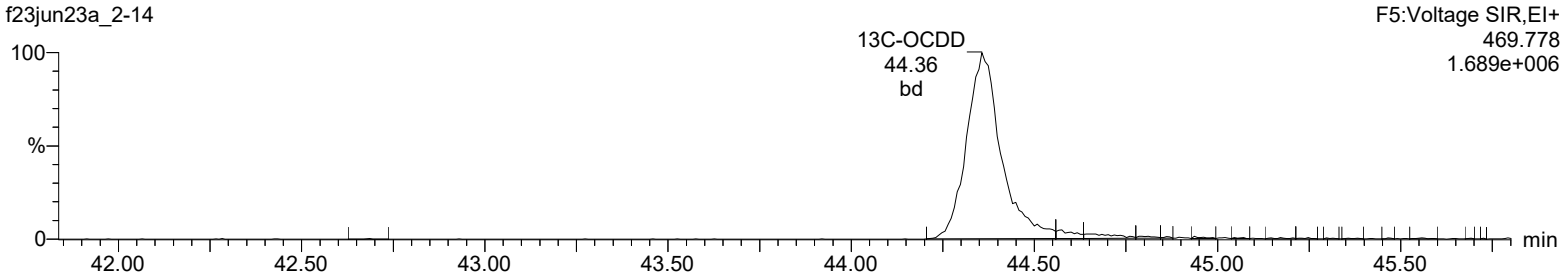
OCDD



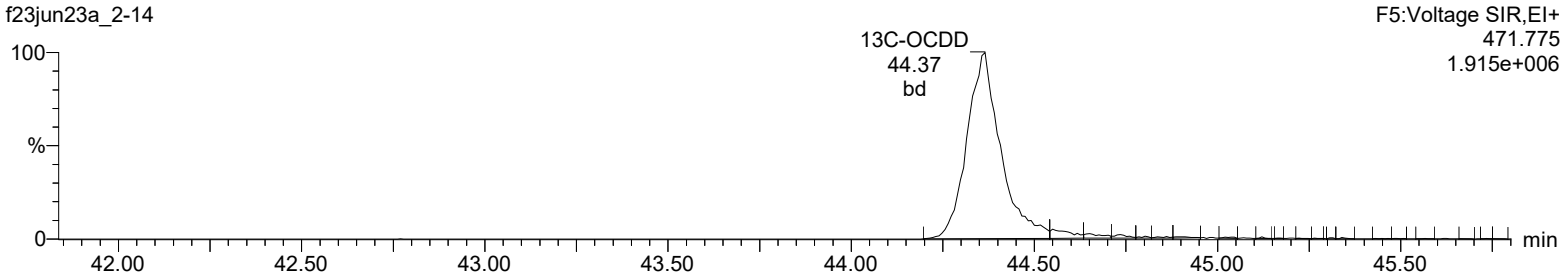
OCDD



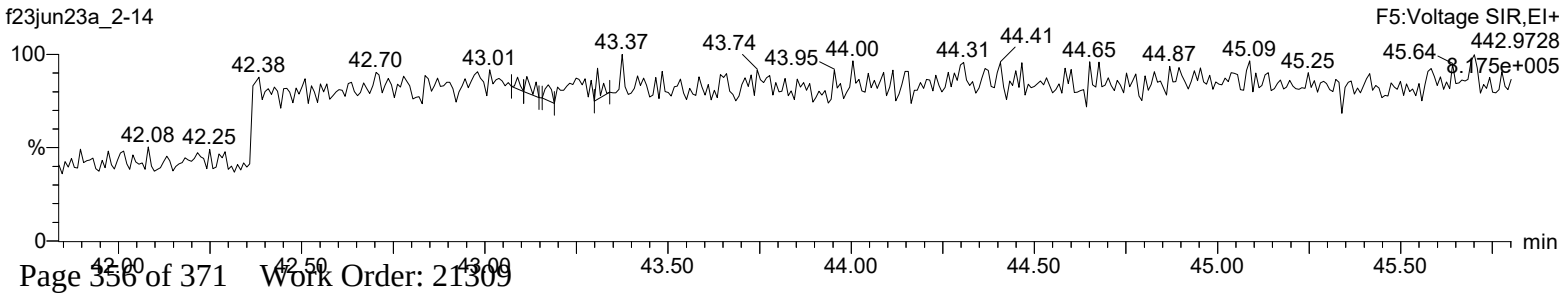
13C-OCDD



13C-OCDD



Lock Mass F5



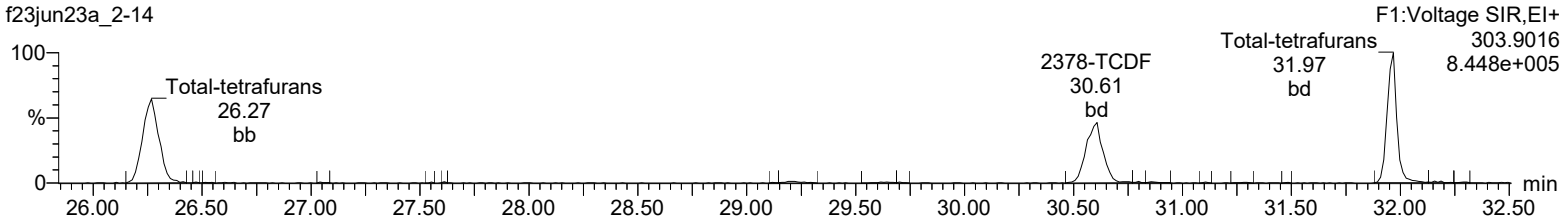
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

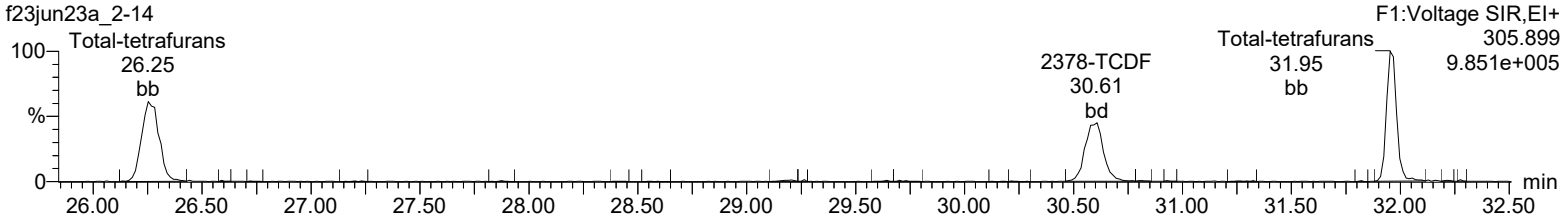
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

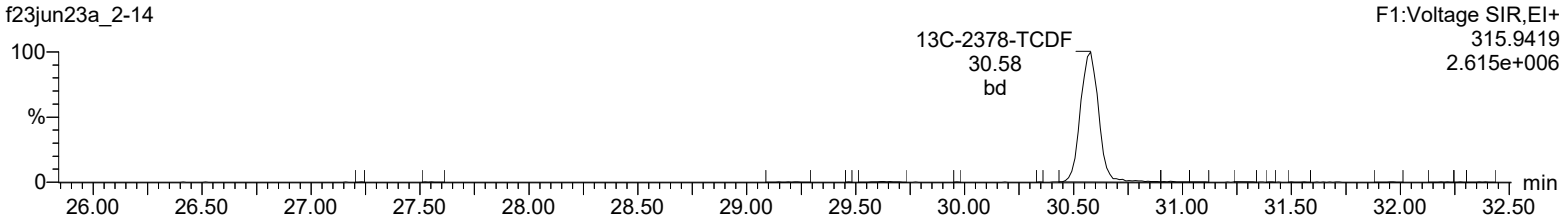
Total-tetrafurans



Total-tetrafurans



13C-2378-TCDF



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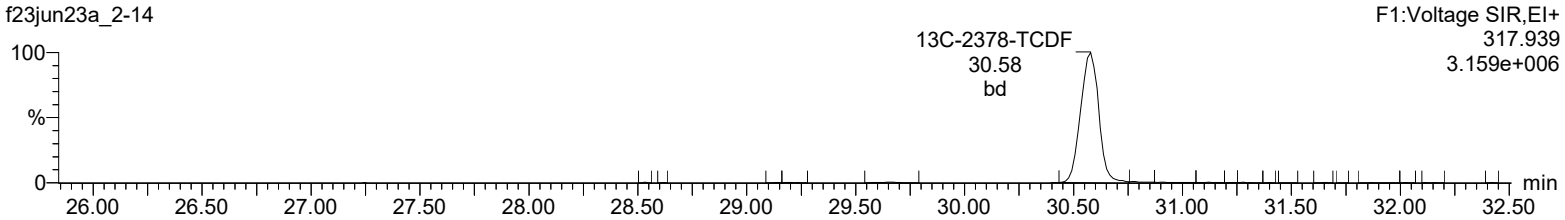
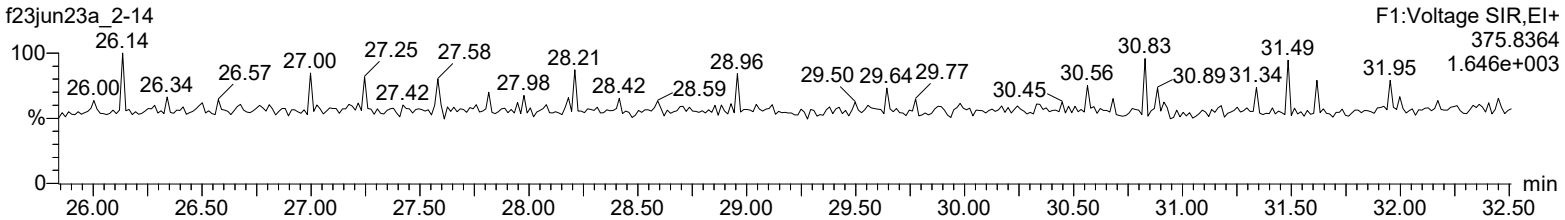
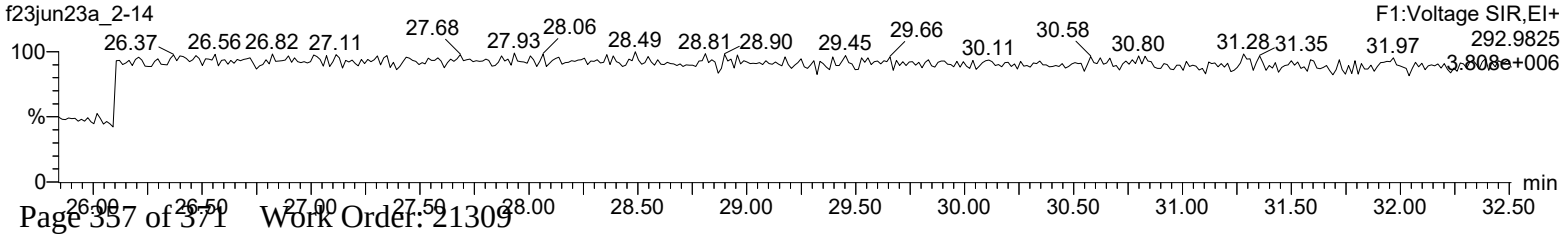


HxDPE



Lock Mass F1



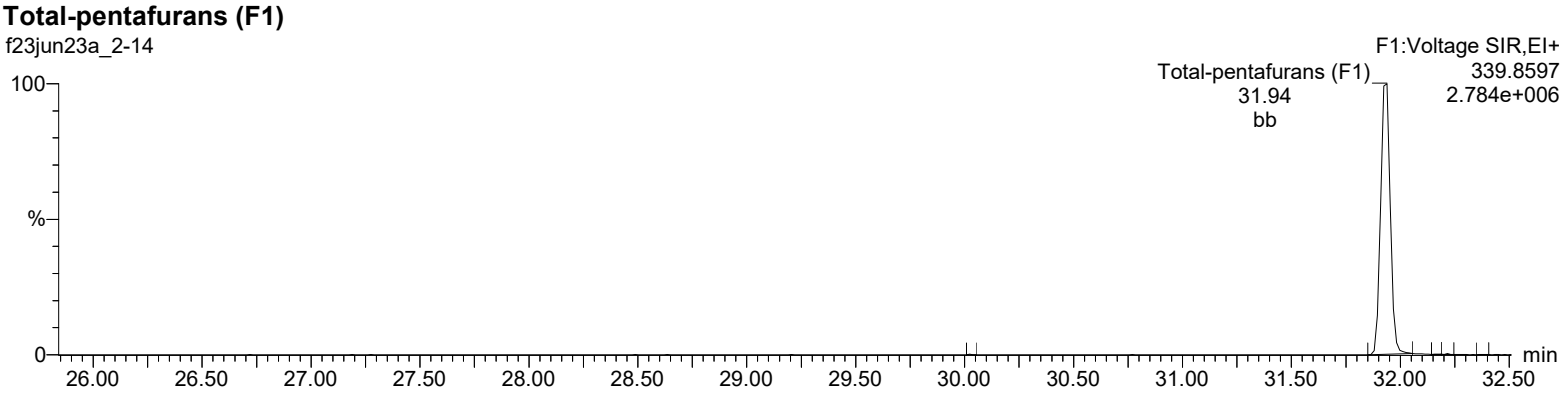
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

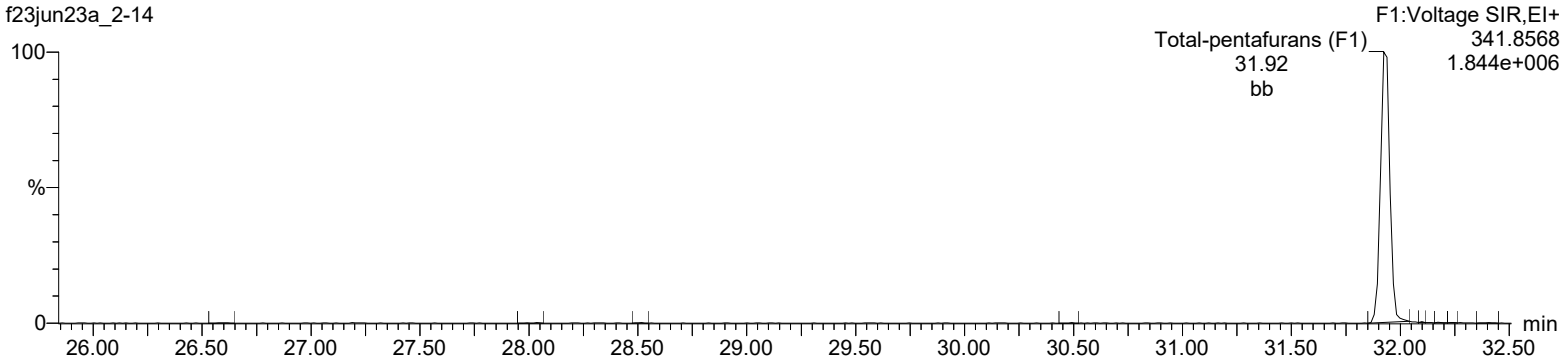
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

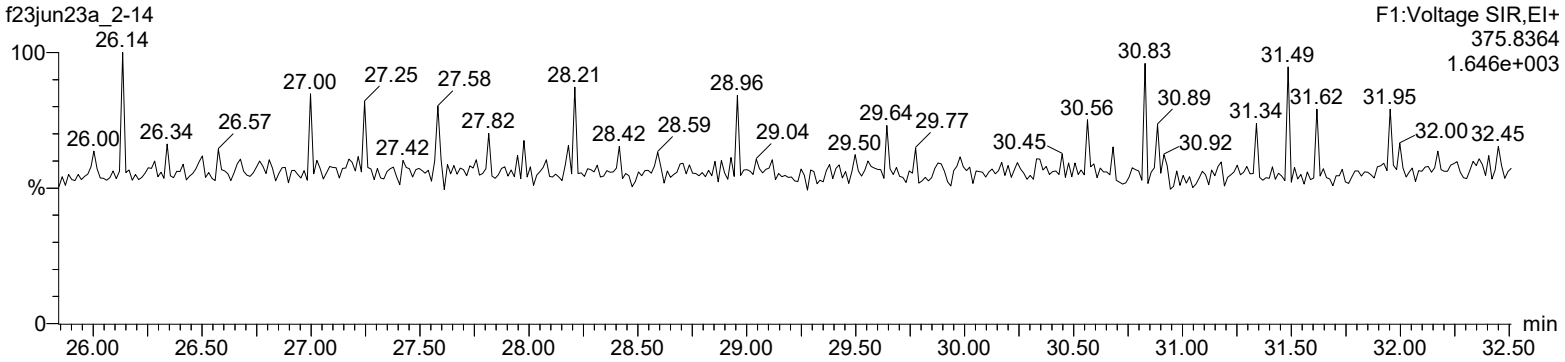
Total-pentafurans (F1)



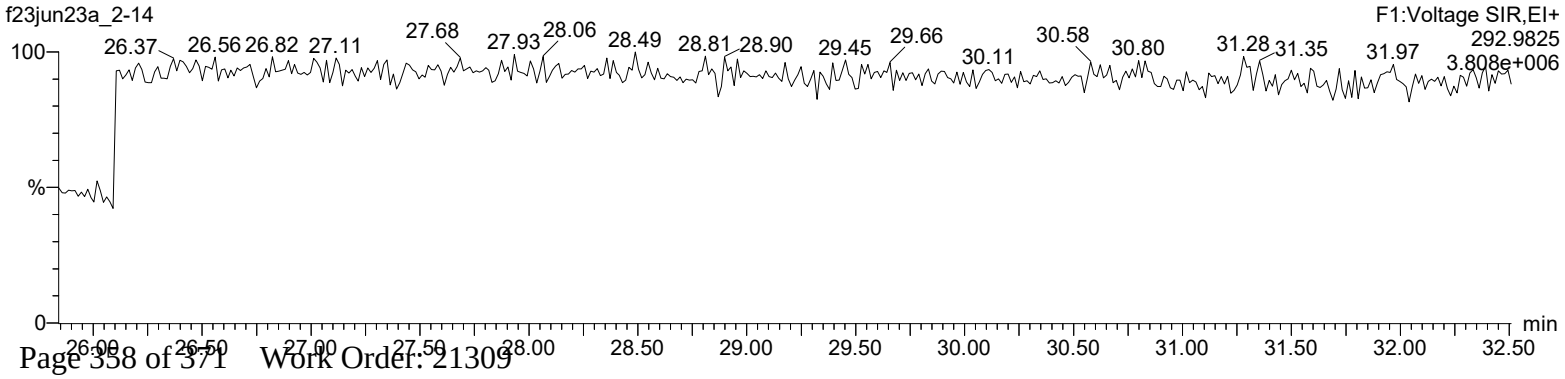
Total-pentafurans (F1)



HxDPE



Lock Mass F1



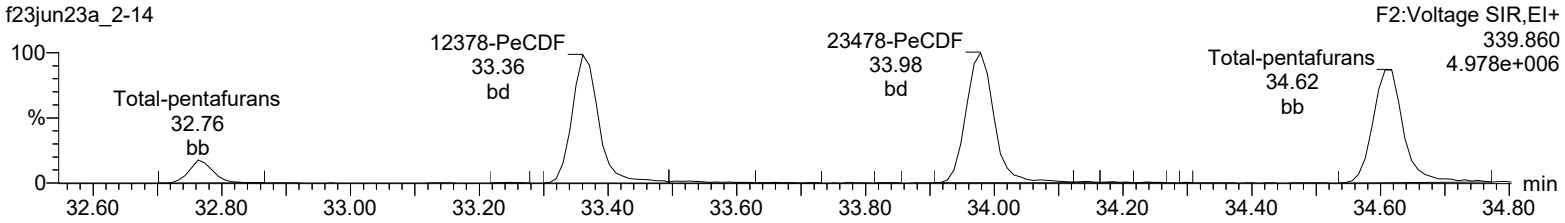
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

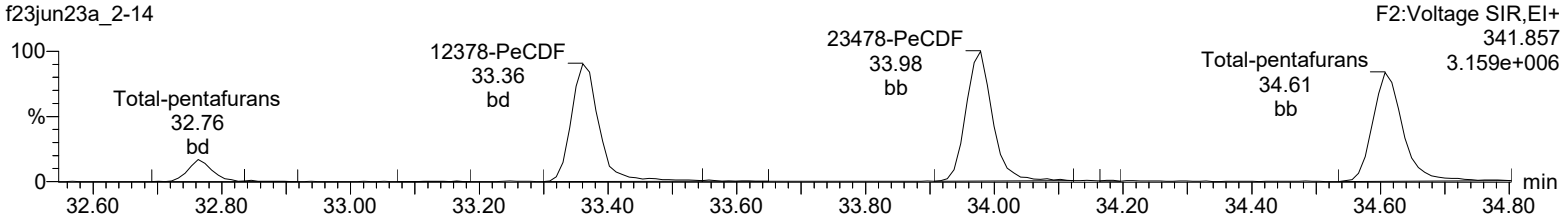
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

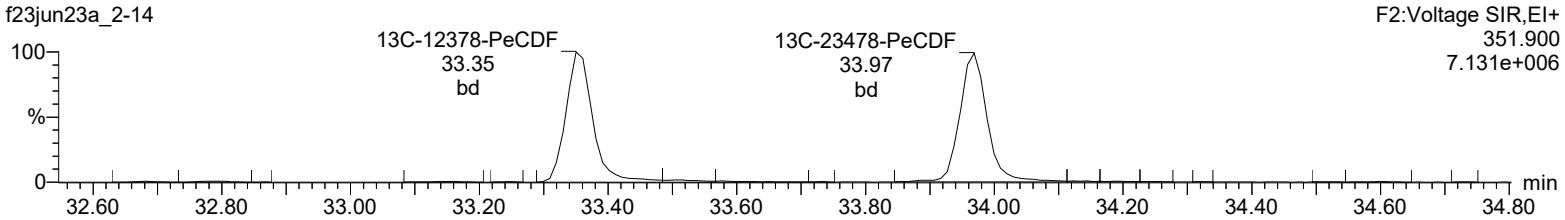
Total-pentafurans



Total-pentafurans



13C-12378-PeCDF



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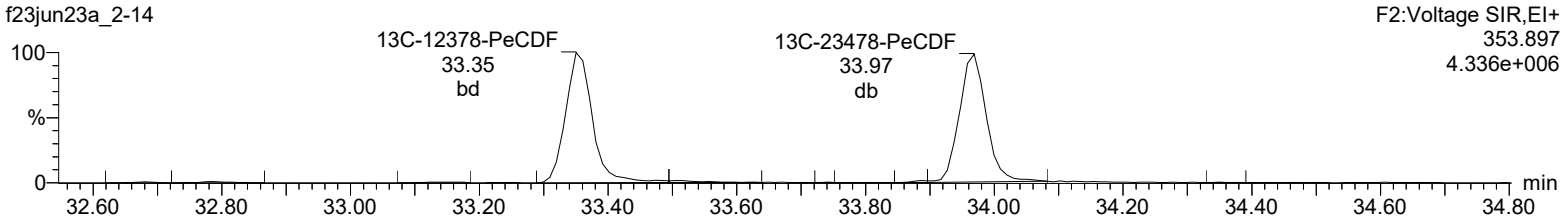
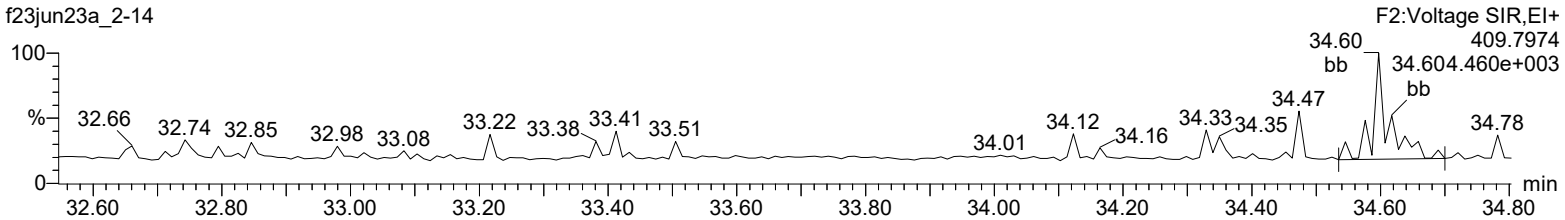
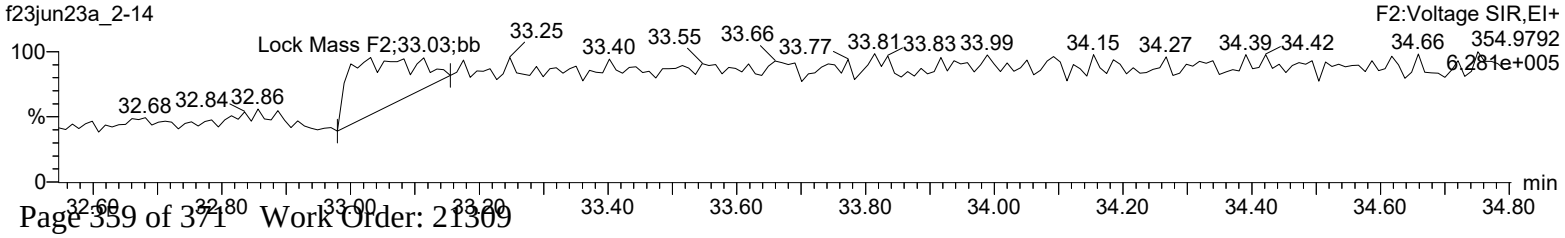


HpDPE



Lock Mass F2



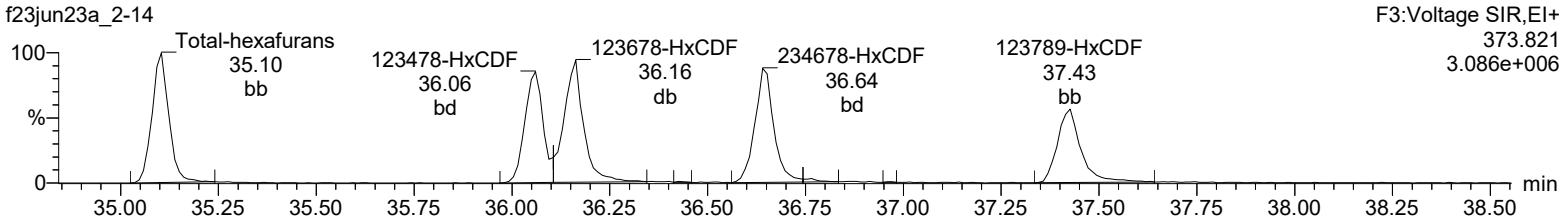
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

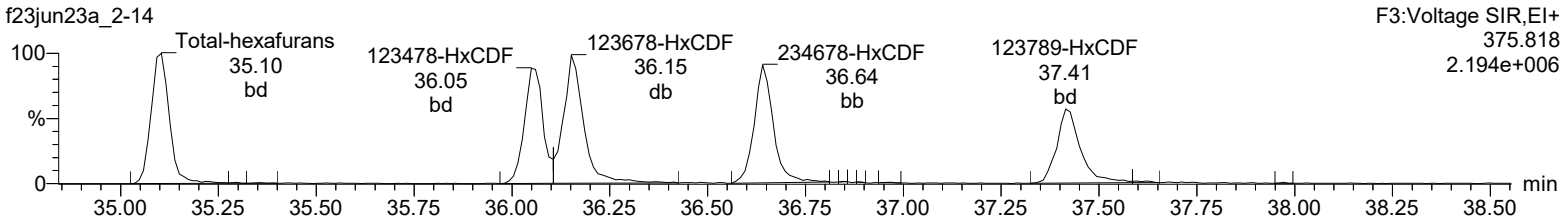
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

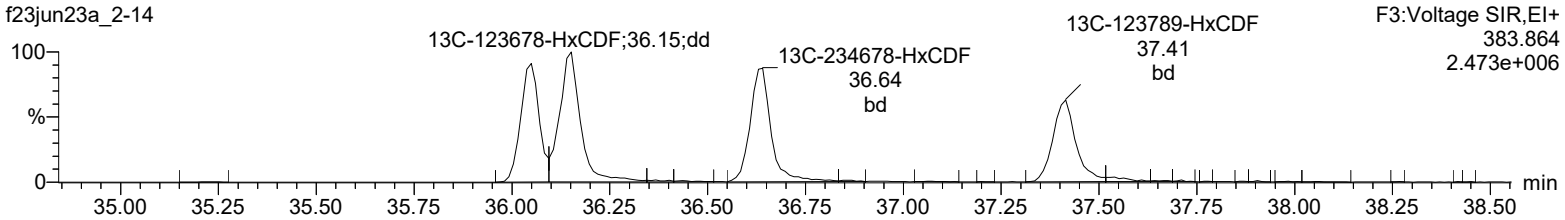
Total-hexafurans



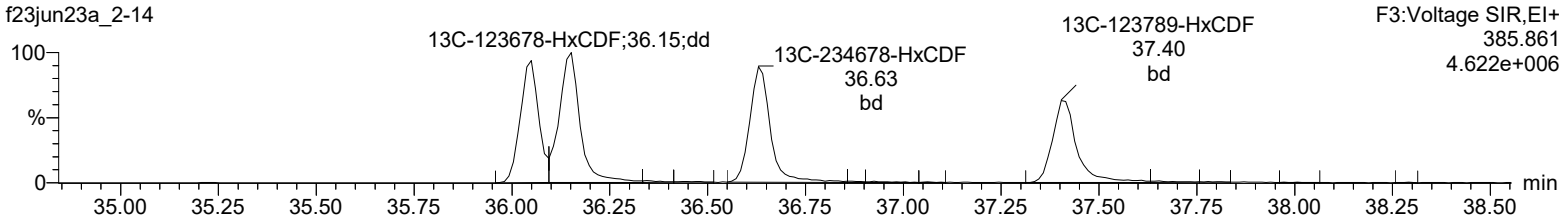
Total-hexafurans



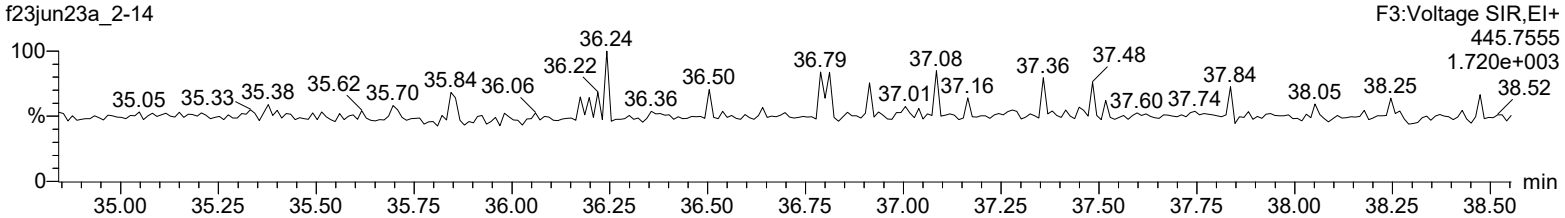
13C-123478-HxCDF



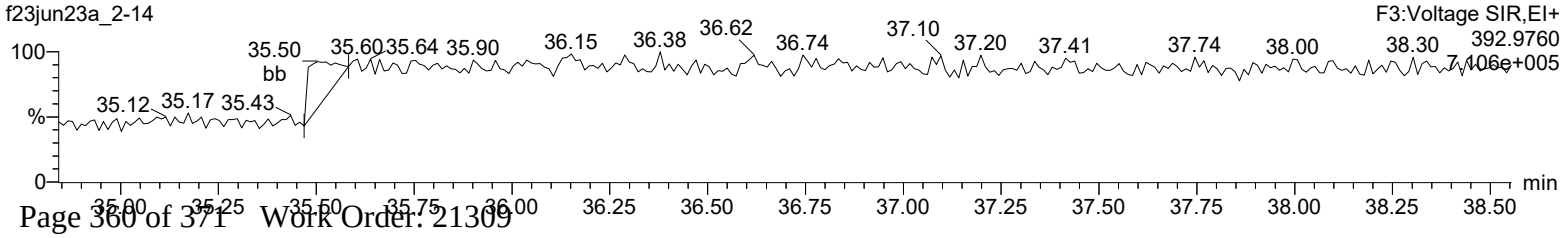
13C-123478-HxCDF



OcDPE



Lock Mass F3



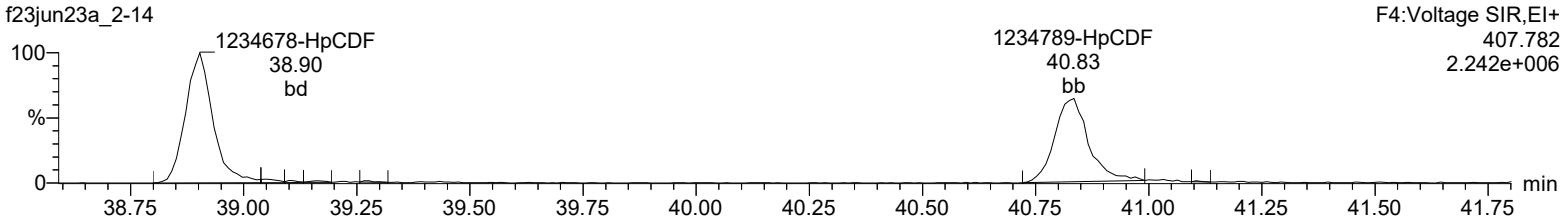
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

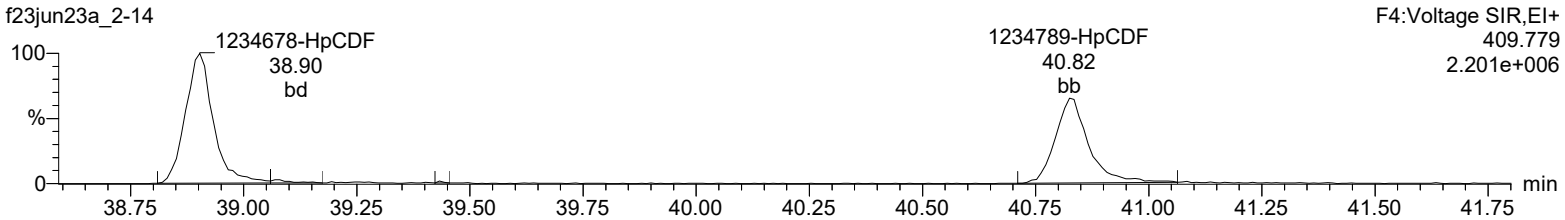
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

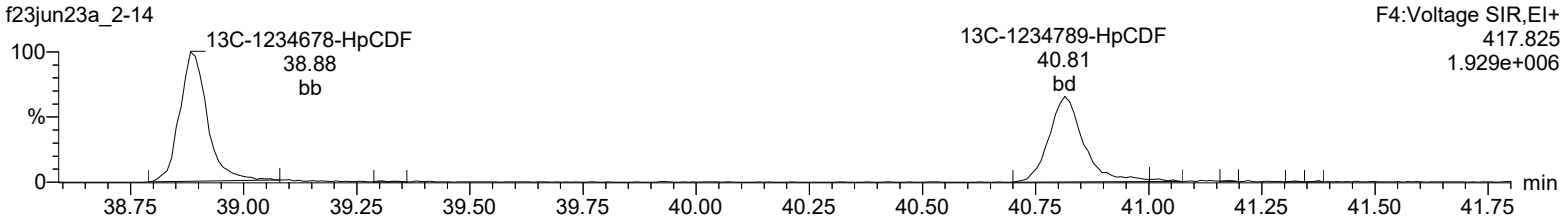
Total-heptafurans



Total-heptafurans



13C-1234678-HpCDF



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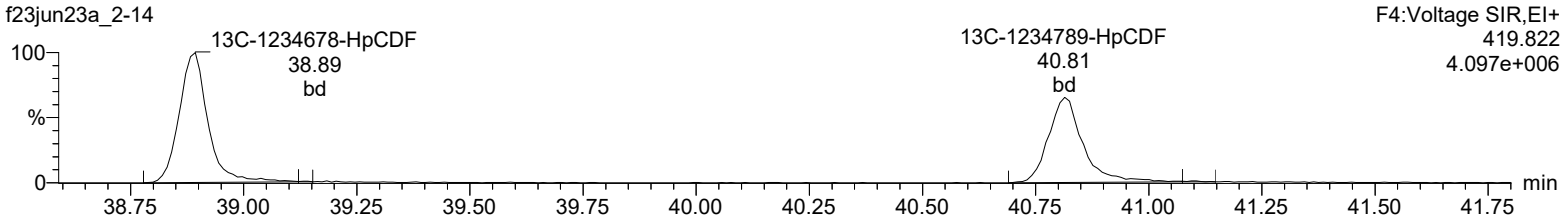
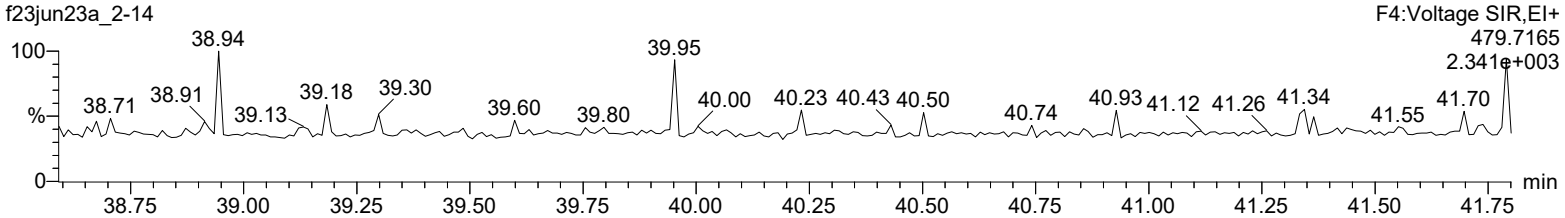
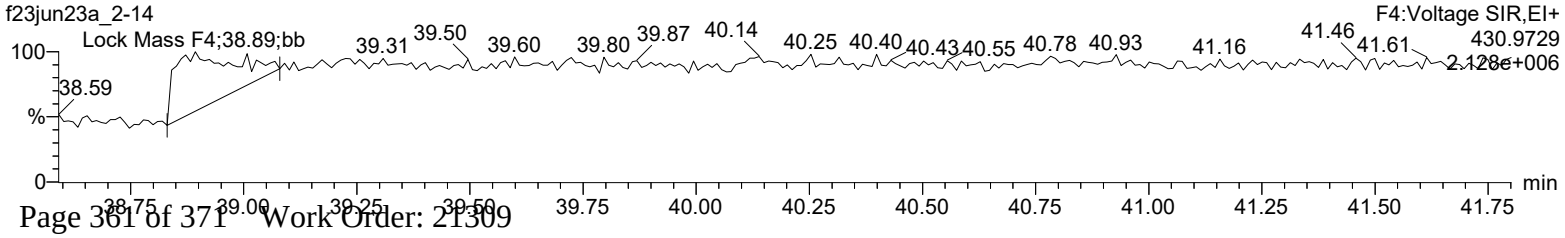


NoDPE



Lock Mass F4



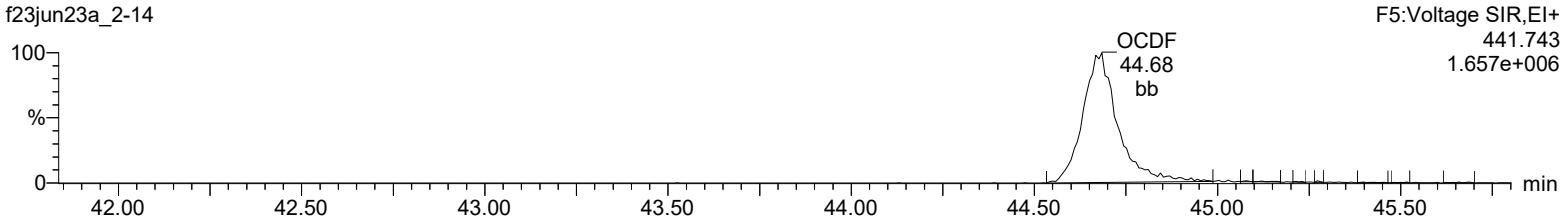
Quantify Sample Report **MassLynx 4.2 SCN992**
Method 1613 CCAL Report

Dataset: C:\MassLynx\Default.pro\CCAL\1613-f23jun23a_2-14.qld

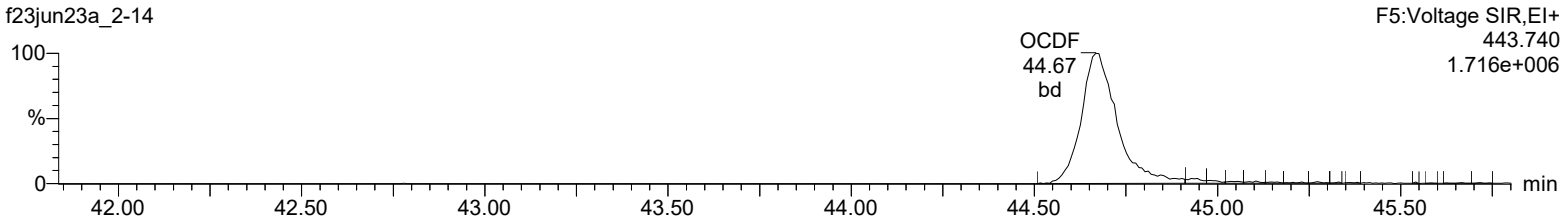
Last Altered: Monday, June 26, 2023 10:02:42 Eastern Daylight Time
Printed: Monday, June 26, 2023 10:22:26 Eastern Daylight Time

Name: f23jun23a_2-14, Date: 24-Jun-2023, Time: 07:52:07, ID: CS3WT UD230505-02.1, Description: , Job: f23jun23a_2, Task: HRP722_2, User: MW1

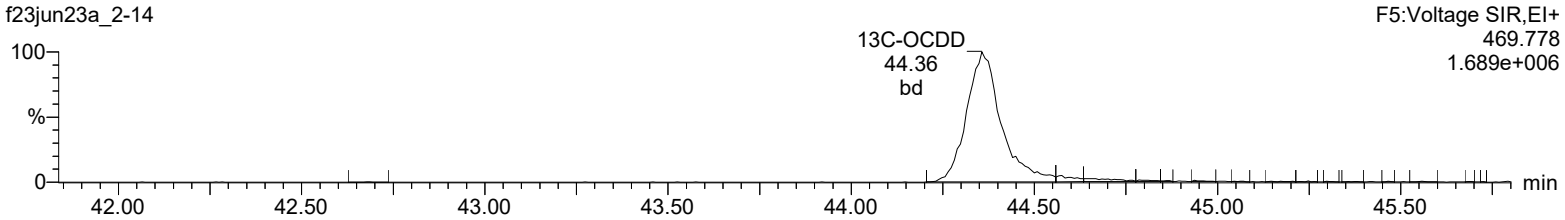
OCDF



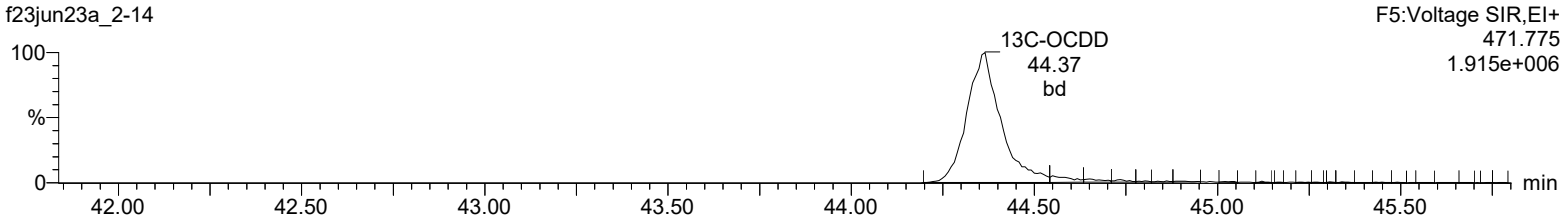
OCDF



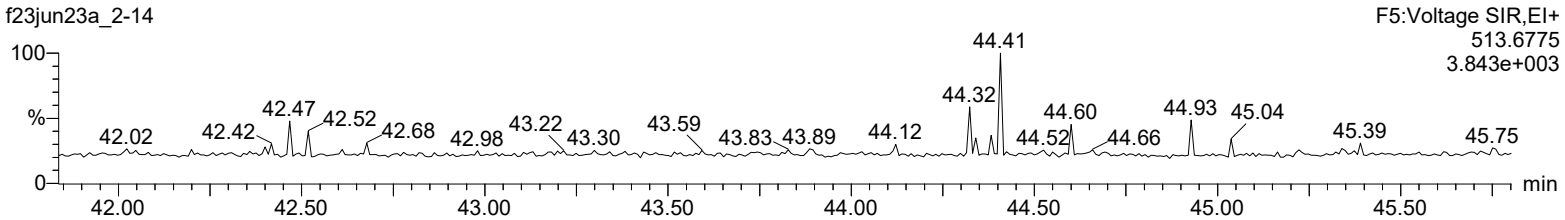
13C-OCDD



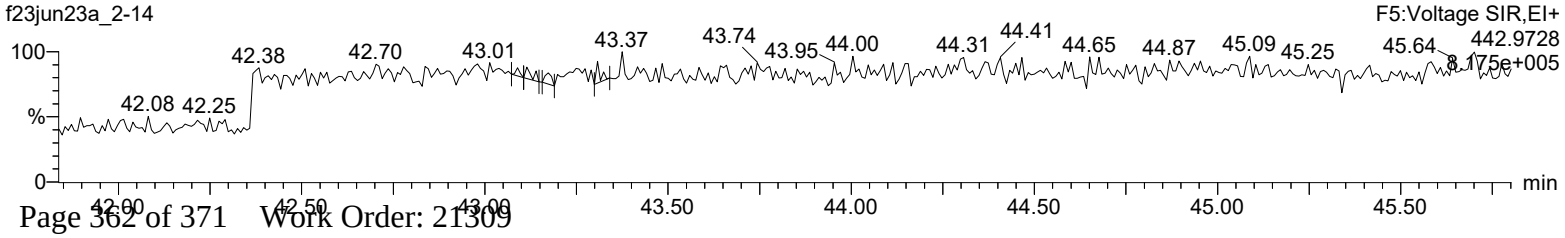
13C-OCDD



DeDPE



Lock Mass F5



Logbooks

Prep Logbook

3520C for 1613 and 8290

Batch ID: 52695
Analyst: Dakota Spurley
Method: SW846 3520C

Lab SOP: CF-OA-E-002 REV# 21
Instrument: B1-Scout Pro (SPX422)

Sample ID	Start Run Date	Initial Weight (g)	Final weight (g)	Aliquot (mL)	pH (su)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
12034325 MB	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL		
12034326 LCS	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL	40	WD230523-02 .005 ng/uL
12034327 LCSD	23-MAY-2023 10:45	1400	400	1000	5	40	WD230523-01 .05 ng/uL	40	WD230523-02 .005 ng/uL
21177001	23-MAY-2023 10:45	1454.1	446.1	1008	10	40	WD230523-01 .05 ng/uL		
21297001	23-MAY-2023 10:45	1457.8	451	1006.8	8	40	WD230523-01 .05 ng/uL		
21297002	23-MAY-2023 10:45	1442.1	453.1	989	8	40	WD230523-01 .05 ng/uL		
21309001	23-MAY-2023 10:45	1407.4	481.5	925.9	8	40	WD230523-01 .05 ng/uL		
21309002	23-MAY-2023 10:45	1390.5	481.2	909.3	8	40	WD230523-01 .05 ng/uL		
21309003	23-MAY-2023 10:45	1372.9	483.9	889	8	40	WD230523-01 .05 ng/uL		
21309004	23-MAY-2023 10:45	1327.9	481.3	846.6	8	40	WD230523-01 .05 ng/uL		
21309005	23-MAY-2023 10:45	1450.3	481.5	968.8	8	40	WD230523-01 .05 ng/uL		
21400001	23-MAY-2023 10:45	1504.9	505.7	999.2	7	40	WD230523-01 .05 ng/uL		
21400002	23-MAY-2023 10:45	1530.8	508.6	1022.2	7	40	WD230523-01 .05 ng/uL		
21400003	23-MAY-2023 10:45	1507.5	515.9	991.6	7	40	WD230523-01 .05 ng/uL		
21400004	23-MAY-2023 10:45	1502.2	510.8	991.4	7	40	WD230523-01 .05 ng/uL		
21400005	23-MAY-2023 10:45	1511.2	506.9	1004.3	7	40	WD230523-01 .05 ng/uL		

Prep Logbook

Batch ID: 52695
Analyst: Dakota Spurley
Method: SW846 3520C

Lab SOP: CF-OA-E-002 REV# 21
Instrument: B1-Scout Pro (SPX422)

Sample ID	Start Run Date	Initial Weight (g)	Final weight (g)	Aliquot (mL)	pH (su)	ES Amount (uL)	ES Serial#	MX Amount (uL)	MX Serial#
21400006	23-MAY-2023 10:45	1517.2	509.5	1007.7	7	40	WD230523-01 .05 ng/uL		
21423001	23-MAY-2023 10:45	1481.3	510.9	970.4	7	40	WD230523-01 .05 ng/uL		
21423002	23-MAY-2023 10:45	1514.8	511	1003.8	7	40	WD230523-01 .05 ng/uL		
21423003	23-MAY-2023 10:45	1514.3	514.1	1000.2	7	40	WD230523-01 .05 ng/uL		
21423004	23-MAY-2023 10:45	1473	512.1	960.9	7	40	WD230523-01 .05 ng/uL		
21423005	23-MAY-2023 10:45	1429.5	512.8	916.7	7	40	WD230523-01 .05 ng/uL		

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Concentrated Sulfuric Acid	1530446-A.2	1	mL
REAGENT		Methylene Chloride	1532191	250	mL
REAGENT		Acetone	1533388-A.9	100	uL
REAGENT		Salt	1533594	25	g
STANDARD		1613 Extraction Standard	WD230523-01	40	uL

Comments:

ES = Labeled isotopes added prior to extraction MX = Native isotopes added prior to extraction CS = Labeled isotopes added prior to fractionation JS = Labeled isotopes added prior to injection

Sample 21177001 PH lowered with Sulfuric Acid.

Finish Date/Time: 24-MAY-23 08:10:00

Prep Logbook

Cleanup Procedure for Liquids

Batch ID: 52696
Analyst: Mike Medwedeff

Lab SOP:
Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Train	Aliqout Analyzed (percent)	CS Amount (uL)	CS Serial#
12034325 MB	24-MAY-2023 10:00	AB Silica Florisil	58	100	20	WD230522-03 .01 ng/uL
12034326 LCS	24-MAY-2023 10:00	AB Silica Florisil	85	100	20	WD230522-03 .01 ng/uL
12034327 LCSD	24-MAY-2023 10:00	AB Silica Florisil	102	100	20	WD230522-03 .01 ng/uL
21177001	24-MAY-2023 10:00	AB Silica Florisil	95	100	20	WD230522-03 .01 ng/uL
21297001	24-MAY-2023 10:00	AB Silica Florisil	194	100	20	WD230522-03 .01 ng/uL
21297002	24-MAY-2023 10:00	AB Silica Florisil	52	100	20	WD230522-03 .01 ng/uL
21309001	24-MAY-2023 10:00	AB Silica Florisil	45	100	20	WD230522-03 .01 ng/uL
21309002	24-MAY-2023 10:00	AB Silica Florisil	104	100	20	WD230522-03 .01 ng/uL
21309003	24-MAY-2023 10:00	AB Silica Florisil	76	100	20	WD230522-03 .01 ng/uL
21309004	24-MAY-2023 10:00	AB Silica Florisil	96	100	20	WD230522-03 .01 ng/uL
21309005	24-MAY-2023 10:00	AB Silica Florisil	97	100	20	WD230522-03 .01 ng/uL
21400001	24-MAY-2023 10:00	AB Silica Florisil	148	100	20	WD230522-03 .01 ng/uL
21400002	24-MAY-2023 10:00	AB Silica Florisil	174	100	20	WD230522-03 .01 ng/uL
21400003	24-MAY-2023 10:00	AB Silica Florisil	51	100	20	WD230522-03 .01 ng/uL
21400004	24-MAY-2023 10:00	AB Silica Florisil	88	100	20	WD230522-03 .01 ng/uL
21400005	24-MAY-2023 10:00	AB Silica Florisil	11	100	20	WD230522-03 .01 ng/uL
21400006	24-MAY-2023 10:00	AB Silica Florisil	55	100	20	WD230522-03 .01 ng/uL
21423001	24-MAY-2023 10:00	AB Silica Florisil	66	100	20	WD230522-03 .01 ng/uL
21423002	24-MAY-2023 10:00	AB Silica Florisil	74	100	20	WD230522-03 .01 ng/uL
21423003	24-MAY-2023 10:00	AB Silica Florisil	23	100	20	WD230522-03 .01 ng/uL
21423004	24-MAY-2023 10:00	AB Silica Florisil	33	100	20	WD230522-03 .01 ng/uL
21423005	24-MAY-2023 10:00	AB Silica Florisil	31	100	20	WD230522-03 .01 ng/uL

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		Glass Wool	1529877-A.3	1	each

Comments:

CS = Labeled isotopes added prior to fractionation

Prep Logbook

Batch ID: **52696**
Analyst: **Mike Medwedeff**

Lab SOP:
Instrument: No analytical instrument

Sample ID	Start Run Date	Cleanup Type	Train	Aliqout Analyzed (percent)	CS Amount (uL)	CS Serial#
REAGENT	Baked Silica		1531677	2	g	
REAGENT	Methylene Chloride		1532191	100	mL	
REAGENT	Activated Florisil		1532204	1	g	
REAGENT	Acid silica		1532755	7	g	
REAGENT	Base silica		1532757-C	3	g	
REAGENT	Hexane		1533040-A.15	130	mL	
REAGENT	Hexane		1533042-A.16	130	mL	
REAGENT	Hexane		1533227-A.1	130	mL	
REAGENT	Salt		1533594	1	g	

Prep Logbook

Method 1613B HRMS Aqueous Analysis

Batch ID: 52698
Analyst: Mallory Walton
Method: EPA Method 1613B

Lab SOP: CF-OA-E-002 REV# 21
Instrument: Waters Autospec Premier High-Resolution GC/MS

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/uL)	Dilution	Dilution Type	Injection Volume (uL)	Vial Prep Date
21400001	24-JUN-2023 03:47	20	2.00E-05	1	Internal	1	20-JUN-2023
21400002	24-JUN-2023 04:36	20	1.96E-05	1	Internal	1	20-JUN-2023
21400003	24-JUN-2023 05:25	20	2.02E-05	1	Internal	1	20-JUN-2023
21400004	24-JUN-2023 06:14	20	2.02E-05	1	Internal	1	20-JUN-2023
21400005	24-JUN-2023 07:03	20	1.99E-05	1	Internal	1	20-JUN-2023
12034326 LCS	24-JUN-2023 08:48	20	2.00E-05	1	Internal	1	20-JUN-2023
12034327 LCSD	24-JUN-2023 09:36	20	2.00E-05	1	Internal	1	20-JUN-2023
12034325 MB	24-JUN-2023 10:25	20	2.00E-05	1	Internal	1	20-JUN-2023
21423001	24-JUN-2023 11:14	20	2.06E-05	1	Internal	1	20-JUN-2023
21423002	24-JUN-2023 12:03	20	1.99E-05	1	Internal	1	20-JUN-2023
21423003	24-JUN-2023 12:52	20	2.00E-05	1	Internal	1	20-JUN-2023
21423004	24-JUN-2023 13:41	20	2.08E-05	1	Internal	1	20-JUN-2023
21423005	24-JUN-2023 14:29	20	2.18E-05	1	Internal	1	20-JUN-2023
21309001	24-JUN-2023 15:18	20	2.16E-05	1	Internal	1	20-JUN-2023
21309002	24-JUN-2023 16:07	20	2.20E-05	1	Internal	1	20-JUN-2023
21309003	24-JUN-2023 16:56	20	2.25E-05	1	Internal	1	20-JUN-2023
21309004	24-JUN-2023 17:45	20	2.36E-05	1	Internal	1	20-JUN-2023
21309005	24-JUN-2023 18:34	20	2.06E-05	1	Internal	1	20-JUN-2023
21400006	25-JUN-2023 15:59	20	1.98E-05	1	Internal	1	20-JUN-2023

Type	Sample Id	Description	Serial Number	Spike Amt	Units
REAGENT		8290 Injection Standard	wd230616-03	20	uL
STANDARD		8290 Injection Standard	wd230616-03	20	uL

Comments:

ES = Labeled isotopes added prior to extraction
MX = Native isotopes added prior to extraction
CS = Labeled isotopes added prior to fractionation

Prep Logbook

Batch ID: 52698
Analyst: Mallory Walton
Method: EPA Method 1613B

Lab SOP: CF-OA-E-002 REV# 21
Instrument: Waters Autospec Premier High-Resolution GC/MS

Sample ID	Start Run Date	Final Volume (uL)	Prep Factor (Final Volume /Aliquot) (uL/uL)	Dilution	Dilution Type	Injection Volume (uL)	Vial Prep Date

JS = Labeled isotopes added prior to injection

Miscellaneous

No non conformance reports were generated for this work order