



Prepared for: Apex Laboratories

Project: A1J0786

Analytical Data Package

Analysis: Dioxins and Furans by EPA 1613

Bureau Veritas Job #: C1X2305

Bureau Veritas Canada (2019) Inc.
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.bvlabs.com



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***Please note sections 5.0-5.3 will not be present if confirmations were not required**



I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Lori Dufour
Project Manager



Digitally signed
by Lori Dufour

Date:

2022.02.03

12:55:25 -05'00'

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Glossary of Terms

- **Detection Limit (DL)** this can also be called **Method Detection Limit (MDL)**: The lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%.
- **Limit of Detection (LOD)**: An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.
- **Limits of Quantitation (LOQ)** this can also be called **Reporting Detection Limit (RDL)**: The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard.
- **Estimated Detection Limit (EDL)**: The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The EDL is generally 5 to 10 times the MDL or for High Resolution GC/MS it is method specified as 2.5 times the signal to noise ratio (S/N). For many analytes the EDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample EDL's are highly matrix dependent. The EDL's in SW-846 are provided for guidance and may not always be achievable.
- **Acceptance Criteria** are values used by the laboratory to determine that a process is in control.
- **Accuracy** is the degree of agreement of a measured value with the true or expected value.
- **Calibration Standards** are a set of solutions containing the analytes of interest at a specified concentration.

- **Calibration Verification Standard** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to assess whether the initial calibration is still valid
- **Certified Reference Material** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.
- **Internal Standard** a deuterated or ^{13}C -labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.
- **Isomer** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.
- **Method Blank** is a laboratory control sample using reagents that are known to be free of contamination.
- **Precision** is the degree of agreement between the data generated from repetitive measurements under specific conditions.
- **Quality Assurance** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.
- **Quality Control** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.
- **RSD** is the relative standard deviation.
- **Blank Spike** is a laboratory control sample that has been fortified with native analytes of interest.
- **Window Defining Mixture** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.
- **RPD** or Relative Percent Difference. A measure used to compare duplicate sample analysis.
- **EMPC/NDR** – Peak detected does not meet ratio criteria and has resulted in a higher detection limit.



1.0 Project Narrative

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PROJECT NARRATIVE

Bureau Veritas
Client Project #: A1J0786



Client: Apex Laboratories
Client Project: A1J0786

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Bureau Veritas ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
Dioxins/Furans in Soil (1613B)						
REZ798	PDI-CORE-01-A-07-08	2021/10/19	2021/11/11	2021/11/24	2021/12/10	2021/11/27
REZ799	PDI-CORE-01-A-08-09	2021/10/19	2021/11/11	2021/11/24	2021/12/10	2021/11/27
REZ800	PDI-CORE-03-B-04-05	2021/10/20	2021/11/11	2021/11/24	2021/12/10	2021/11/27
REZ801	PDI-CORE-03-B-05-06	2021/10/20	2021/11/11	2021/11/24	2021/12/11	2021/11/27
REZ812	PDI-CORE-103-B-05-06	2021/10/20	2021/11/11	2021/11/24	2021/12/11	2021/11/27
REZ817	PDI-CORE-04-B-05-06	2021/10/20	2021/11/11	2021/11/24	2021/12/11	2021/11/27
REZ818	PDI-CORE-04-B-06-07	2021/10/20	2021/11/11	2021/11/24	2021/12/11	2021/11/27

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual integration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

A handwritten signature in black ink, appearing to read "Alex Dyer".

Project Manager- Site Assessment
and Remediation/ Ultra Trace

2022/02/03

Date



2.0 Summary Report

**Bureau Veritas Canada (2019)
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Mississauga, Ontario, Canada
L5N 2L8
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Your Project #: A1J0786
Your C.O.C. #: n/a

Attention: Darrell Auvi

Apex Laboratories
6700 SW Sandburg St.
Tigard, OR
USA 97223

Report Date: 2021/12/15
Report #: R6921421
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1X2305

Received: 2021/11/11, 12:46

Sample Matrix: Soil
Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Dioxins/Furans in Soil (1613B) (1)	3	2021/11/24	2021/12/10	BRL SOP-00410	EPA 1613B m
Dioxins/Furans in Soil (1613B) (1)	4	2021/11/24	2021/12/11	BRL SOP-00410	EPA 1613B m
Moisture	7	N/A	2021/11/13	CAM SOP-00445	Carter 2nd ed 51.2 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Soils are reported on a dry weight basis unless otherwise specified.

Confirmatory runs for 2,3,7,8-TCDF are performed only if the primary result is greater than the RDL.

U = Undetected at the limit of quantitation.

J = Estimated concentration between the EDL & RDL.

B = Blank Contamination.

Q = One or more quality control criteria failed.

E = Analyte concentration exceeds the maximum concentration level.

K = Estimated maximum possible concentration due to ion abundance ratio failure.

Encryption Key

Lori Dufour
Project Manager
16 Dec 2021 15:54:19

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Lori Dufour, Project Manager

Email: Lori.Dufour@bureauveritas.com

Phone# (905) 817-5700

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas Job #: C1X2305
Report Date: 2021/12/15

Apex Laboratories
Client Project #: A1J0786

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		REZ798	REZ799	REZ800	REZ801			
Sampling Date		2021/10/19 17:40	2021/10/19 17:45	2021/10/20 09:45	2021/10/20 09:50			
COC Number		n/a	n/a	n/a	n/a			
	UNITS	PDI-CORE-01-A-07-08	PDI-CORE-01-A-08-09	PDI-CORE-03-B-04-05	PDI-CORE-03-B-05-06	RDL	MDL	QC Batch
Moisture	%	23	24	38	37	1.0	0.50	7699396
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Bureau Veritas ID		REZ812	REZ817	REZ818			
Sampling Date		2021/10/20 09:57	2021/10/20 14:15	2021/10/20 14:20			
COC Number		n/a	n/a	n/a			
	UNITS	PDI-CORE-103-B-05-06	PDI-CORE-04-B-05-06	PDI-CORE-04-B-06-07	RDL	MDL	QC Batch
Moisture	%	35	30	27	1.0	0.50	7699396
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ798							
Sampling Date		2021/10/19 17:40							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-01-A-07-08	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/g	0.147 U	0.147	1.00	0.0400	1.00	0.147	N/A	7716247
1,2,3,7,8-Penta CDD *	pg/g	0.482 J	0.145	5.00	0.0400	1.00	0.482	N/A	7716247
1,2,3,4,7,8-Hexa CDD *	pg/g	0.188 J	0.158	5.00	0.0400	0.100	0.0188	N/A	7716247
1,2,3,6,7,8-Hexa CDD *	pg/g	0.921 J	0.157	5.00	0.0400	0.100	0.0921	N/A	7716247
1,2,3,7,8,9-Hexa CDD *	pg/g	0.706 J (1)	0.158	5.00	0.0400	0.100	0.0706	N/A	7716247
1,2,3,4,6,7,8-Hepta CDD *	pg/g	7.17	0.132	5.00	0.0400	0.0100	0.0717	N/A	7716247
Octa CDD *	pg/g	52.8	0.129	10.0	0.0800	0.000300	0.0158	N/A	7716247
Total Tetra CDD *	pg/g	0.894 J	0.147	1.00	0.0400	N/A	N/A	2	7716247
Total Penta CDD *	pg/g	2.81 J	0.145	5.00	0.0400	N/A	N/A	6	7716247
Total Hexa CDD *	pg/g	8.64	0.159	5.00	0.0400	N/A	N/A	6	7716247
Total Hepta CDD *	pg/g	14.2	0.132	5.00	0.0400	N/A	N/A	2	7716247
2,3,7,8-Tetra CDF **	pg/g	0.142 U (2)	0.142	1.00	0.0400	0.100	0.0142	N/A	7716247
1,2,3,7,8-Penta CDF **	pg/g	0.343 J	0.150	5.00	0.0400	0.0300	0.0103	N/A	7716247
2,3,4,7,8-Penta CDF **	pg/g	0.726 J	0.135	5.00	0.0400	0.300	0.218	N/A	7716247
1,2,3,4,7,8-Hexa CDF **	pg/g	1.46 J	0.147	5.00	0.0400	0.100	0.146	N/A	7716247
1,2,3,6,7,8-Hexa CDF **	pg/g	1.23 J	0.155	5.00	0.0400	0.100	0.123	N/A	7716247
2,3,4,6,7,8-Hexa CDF **	pg/g	0.796 J	0.145	5.00	0.0400	0.100	0.0796	N/A	7716247
1,2,3,7,8,9-Hexa CDF **	pg/g	0.155 U	0.155	5.00	0.0400	0.100	0.0155	N/A	7716247
1,2,3,4,6,7,8-Hepta CDF **	pg/g	20.9	0.150	5.00	0.0400	0.0100	0.209	N/A	7716247
1,2,3,4,7,8,9-Hepta CDF **	pg/g	0.425 J	0.154	5.00	0.0400	0.0100	0.00425	N/A	7716247
Octa CDF **	pg/g	9.64 J	0.118	10.0	0.0800	0.000300	0.00289	N/A	7716247
Total Tetra CDF **	pg/g	11.4	0.142	1.00	0.0400	N/A	N/A	8	7716247
Total Penta CDF **	pg/g	34.3	0.142	5.00	0.0400	N/A	N/A	8	7716247
Total Hexa CDF **	pg/g	30.6	0.150	5.00	0.0400	N/A	N/A	10	7716247
Total Hepta CDF **	pg/g	35.2	0.152	5.00	0.0400	N/A	N/A	3	7716247
TOTAL TOXIC EQUIVALENCY	pg/g	N/A	N/A	N/A	N/A	N/A	1.72	N/A	N/A

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

* CDD = Chloro Dibenzo-p-Dioxin

N/A = Not Applicable

** CDF = Chloro Dibenzo-p-Furan

(1) EMPC / Merged Peak

(2) RT > 3 seconds - PCDD/DF analysis - Peak detected exceeds expected retention time (from internal standard) by greater than 3 seconds



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ798							
Sampling Date		2021/10/19 17:40							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-01-A-07-08	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	106	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDD *	%	87	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDF **	%	89	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDD *	%	97	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDF **	%	99	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234789 HeptaCDF **	%	103	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDD *	%	100	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDF **	%	99	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDD *	%	108	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDF **	%	95	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123789 HexaCDF **	%	98	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-234678 HexaCDF **	%	129	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-23478 PentaCDF **	%	113	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDD *	%	88	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDF **	%	91	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-OCDD *	%	79	N/A	N/A	N/A	N/A	N/A	N/A	7716247
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch * CDD = Chloro Dibenzo-p-Dioxin N/A = Not Applicable ** CDF = Chloro Dibenzo-p-Furan									



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ799							
Sampling Date		2021/10/19 17:45							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-01-A-08-09	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/g	0.140 U	0.140	1.00	0.0400	1.00	0.140	N/A	7716247
1,2,3,7,8-Penta CDD *	pg/g	0.155 U	0.155	5.00	0.0400	1.00	0.155	N/A	7716247
1,2,3,4,7,8-Hexa CDD *	pg/g	0.142 U	0.142	5.00	0.0400	0.100	0.0142	N/A	7716247
1,2,3,6,7,8-Hexa CDD *	pg/g	0.231 U (1)	0.231	5.00	0.0400	0.100	0.0231	N/A	7716247
1,2,3,7,8,9-Hexa CDD *	pg/g	0.226 U (1)	0.226	5.00	0.0400	0.100	0.0226	N/A	7716247
1,2,3,4,6,7,8-Hepta CDD *	pg/g	2.49 J	0.112	5.00	0.0400	0.0100	0.0249	N/A	7716247
Octa CDD *	pg/g	15.7	0.121	10.0	0.0800	0.000300	0.00471	N/A	7716247
Total Tetra CDD *	pg/g	0.249 J	0.140	1.00	0.0400	N/A	N/A	1	7716247
Total Penta CDD *	pg/g	0.209 J	0.155	5.00	0.0400	N/A	N/A	1	7716247
Total Hexa CDD *	pg/g	2.16 J	0.143	5.00	0.0400	N/A	N/A	3	7716247
Total Hepta CDD *	pg/g	4.96 J	0.112	5.00	0.0400	N/A	N/A	2	7716247
2,3,7,8-Tetra CDF **	pg/g	0.149 U (2)	0.149	1.00	0.0400	0.100	0.0149	N/A	7716247
1,2,3,7,8-Penta CDF **	pg/g	0.160 U	0.160	5.00	0.0400	0.0300	0.00480	N/A	7716247
2,3,4,7,8-Penta CDF **	pg/g	0.144 U	0.144	5.00	0.0400	0.300	0.0432	N/A	7716247
1,2,3,4,7,8-Hexa CDF **	pg/g	0.286 J	0.141	5.00	0.0400	0.100	0.0286	N/A	7716247
1,2,3,6,7,8-Hexa CDF **	pg/g	0.243 J	0.150	5.00	0.0400	0.100	0.0243	N/A	7716247
2,3,4,6,7,8-Hexa CDF **	pg/g	0.156 J	0.139	5.00	0.0400	0.100	0.0156	N/A	7716247
1,2,3,7,8,9-Hexa CDF **	pg/g	0.149 U	0.149	5.00	0.0400	0.100	0.0149	N/A	7716247
1,2,3,4,6,7,8-Hepta CDF **	pg/g	6.89	0.124	5.00	0.0400	0.0100	0.0689	N/A	7716247
1,2,3,4,7,8,9-Hepta CDF **	pg/g	0.127 U	0.127	5.00	0.0400	0.0100	0.00127	N/A	7716247
Octa CDF **	pg/g	2.59 J	0.115	10.0	0.0800	0.000300	0.000777	N/A	7716247
Total Tetra CDF **	pg/g	2.19	0.149	1.00	0.0400	N/A	N/A	6	7716247
Total Penta CDF **	pg/g	6.58	0.152	5.00	0.0400	N/A	N/A	6	7716247
Total Hexa CDF **	pg/g	6.40	0.145	5.00	0.0400	N/A	N/A	7	7716247
Total Hepta CDF **	pg/g	10.6	0.125	5.00	0.0400	N/A	N/A	2	7716247
TOTAL TOXIC EQUIVALENCY	pg/g	N/A	N/A	N/A	N/A	N/A	0.602	N/A	N/A

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

* CDD = Chloro Dibenzo-p-Dioxin

N/A = Not Applicable

** CDF = Chloro Dibenzo-p-Furan

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

(2) RT > 3 seconds - PCDD/DF analysis - Peak detected exceeds expected retention time (from internal standard) by greater than 3 seconds



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ799							
Sampling Date		2021/10/19 17:45							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-01-A-08-09	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	100	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDD *	%	70	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDF **	%	74	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDD *	%	86	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDF **	%	88	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234789 HeptaCDF **	%	84	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDD *	%	88	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDF **	%	88	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDD *	%	104	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDF **	%	88	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123789 HexaCDF **	%	85	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-234678 HexaCDF **	%	115	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-23478 PentaCDF **	%	107	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDD *	%	82	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDF **	%	83	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-OCDD *	%	63	N/A	N/A	N/A	N/A	N/A	N/A	7716247
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch * CDD = Chloro Dibenzo-p-Dioxin N/A = Not Applicable ** CDF = Chloro Dibenzo-p-Furan									



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ800							
Sampling Date		2021/10/20 09:45							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-03-B-04-05	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/g	0.125 U	0.125	0.998	0.0399	1.00	0.125	N/A	7716247
1,2,3,7,8-Penta CDD *	pg/g	0.124 U	0.124	4.99	0.0399	1.00	0.124	N/A	7716247
1,2,3,4,7,8-Hexa CDD *	pg/g	0.141 U	0.141	4.99	0.0399	0.100	0.0141	N/A	7716247
1,2,3,6,7,8-Hexa CDD *	pg/g	0.140 U	0.140	4.99	0.0399	0.100	0.0140	N/A	7716247
1,2,3,7,8,9-Hexa CDD *	pg/g	0.140 U	0.140	4.99	0.0399	0.100	0.0140	N/A	7716247
1,2,3,4,6,7,8-Hepta CDD *	pg/g	1.39 J	0.156	4.99	0.0399	0.0100	0.0139	N/A	7716247
Octa CDD *	pg/g	15.3	0.105	9.98	0.0798	0.000300	0.00459	N/A	7716247
Total Tetra CDD *	pg/g	0.227 J	0.125	0.998	0.0399	N/A	N/A	1	7716247
Total Penta CDD *	pg/g	0.124 U	0.124	4.99	0.0399	N/A	N/A	0	7716247
Total Hexa CDD *	pg/g	0.733 J	0.141	4.99	0.0399	N/A	N/A	1	7716247
Total Hepta CDD *	pg/g	4.21 J	0.156	4.99	0.0399	N/A	N/A	2	7716247
2,3,7,8-Tetra CDF **	pg/g	0.124 U	0.124	0.998	0.0399	0.100	0.0124	N/A	7716247
1,2,3,7,8-Penta CDF **	pg/g	0.123 U	0.123	4.99	0.0399	0.0300	0.00369	N/A	7716247
2,3,4,7,8-Penta CDF **	pg/g	0.110 U	0.110	4.99	0.0399	0.300	0.0330	N/A	7716247
1,2,3,4,7,8-Hexa CDF **	pg/g	0.129 U	0.129	4.99	0.0399	0.100	0.0129	N/A	7716247
1,2,3,6,7,8-Hexa CDF **	pg/g	0.136 U	0.136	4.99	0.0399	0.100	0.0136	N/A	7716247
2,3,4,6,7,8-Hexa CDF **	pg/g	0.127 U	0.127	4.99	0.0399	0.100	0.0127	N/A	7716247
1,2,3,7,8,9-Hexa CDF **	pg/g	0.136 U	0.136	4.99	0.0399	0.100	0.0136	N/A	7716247
1,2,3,4,6,7,8-Hepta CDF **	pg/g	0.312 J	0.150	4.99	0.0399	0.0100	0.00312	N/A	7716247
1,2,3,4,7,8,9-Hepta CDF **	pg/g	0.154 U	0.154	4.99	0.0399	0.0100	0.00154	N/A	7716247
Octa CDF **	pg/g	0.533 J	0.103	9.98	0.0798	0.000300	0.000160	N/A	7716247
Total Tetra CDF **	pg/g	0.376 J	0.124	0.998	0.0399	N/A	N/A	2	7716247
Total Penta CDF **	pg/g	0.269 J	0.116	4.99	0.0399	N/A	N/A	1	7716247
Total Hexa CDF **	pg/g	0.474 J	0.132	4.99	0.0399	N/A	N/A	2	7716247
Total Hepta CDF **	pg/g	0.814 J	0.152	4.99	0.0399	N/A	N/A	2	7716247
TOTAL TOXIC EQUIVALENCY	pg/g	N/A	N/A	N/A	N/A	N/A	0.416	N/A	N/A
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	98	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDD *	%	57	N/A	N/A	N/A	N/A	N/A	N/A	7716247
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch * CDD = Chloro Dibenzo-p-Dioxin N/A = Not Applicable ** CDF = Chloro Dibenzo-p-Furan									



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ800							
Sampling Date		2021/10/20 09:45							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-03-B-04-05	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-1234678 HeptaCDF **	%	53	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDD *	%	78	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDF **	%	76	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234789 HeptaCDF **	%	65	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDD *	%	81	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDF **	%	74	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDD *	%	99	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDF **	%	80	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123789 HexaCDF **	%	77	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-234678 HexaCDF **	%	77	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-23478 PentaCDF **	%	90	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDD *	%	84	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDF **	%	79	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-OCDD *	%	42	N/A	N/A	N/A	N/A	N/A	N/A	7716247

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

** CDF = Chloro Dibenzo-p-Furan

N/A = Not Applicable

* CDD = Chloro Dibenzo-p-Dioxin



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ801							
Sampling Date		2021/10/20 09:50							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-03-B-05-06	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/g	0.128 U	0.128	0.999	0.0400	1.00	0.128	N/A	7716247
1,2,3,7,8-Penta CDD *	pg/g	0.132 U	0.132	5.00	0.0400	1.00	0.132	N/A	7716247
1,2,3,4,7,8-Hexa CDD *	pg/g	0.120 U	0.120	5.00	0.0400	0.100	0.0120	N/A	7716247
1,2,3,6,7,8-Hexa CDD *	pg/g	0.127 J	0.119	5.00	0.0400	0.100	0.0127	N/A	7716247
1,2,3,7,8,9-Hexa CDD *	pg/g	0.173 J	0.120	5.00	0.0400	0.100	0.0173	N/A	7716247
1,2,3,4,6,7,8-Hepta CDD *	pg/g	2.28 J	0.117	5.00	0.0400	0.0100	0.0228	N/A	7716247
Octa CDD *	pg/g	25.3	0.121	9.99	0.0799	0.000300	0.00759	N/A	7716247
Total Tetra CDD *	pg/g	0.403 U (1)	0.403	0.999	0.0400	N/A	N/A	0	7716247
Total Penta CDD *	pg/g	0.132 U	0.132	5.00	0.0400	N/A	N/A	0	7716247
Total Hexa CDD *	pg/g	1.42 J	0.120	5.00	0.0400	N/A	N/A	4	7716247
Total Hepta CDD *	pg/g	5.57	0.117	5.00	0.0400	N/A	N/A	2	7716247
2,3,7,8-Tetra CDF **	pg/g	0.112 U	0.112	0.999	0.0400	0.100	0.0112	N/A	7716247
1,2,3,7,8-Penta CDF **	pg/g	0.144 U	0.144	5.00	0.0400	0.0300	0.00432	N/A	7716247
2,3,4,7,8-Penta CDF **	pg/g	0.129 U	0.129	5.00	0.0400	0.300	0.0387	N/A	7716247
1,2,3,4,7,8-Hexa CDF **	pg/g	0.116 U	0.116	5.00	0.0400	0.100	0.0116	N/A	7716247
1,2,3,6,7,8-Hexa CDF **	pg/g	0.123 U	0.123	5.00	0.0400	0.100	0.0123	N/A	7716247
2,3,4,6,7,8-Hexa CDF **	pg/g	0.114 U	0.114	5.00	0.0400	0.100	0.0114	N/A	7716247
1,2,3,7,8,9-Hexa CDF **	pg/g	0.123 U	0.123	5.00	0.0400	0.100	0.0123	N/A	7716247
1,2,3,4,6,7,8-Hepta CDF **	pg/g	0.389 J	0.131	5.00	0.0400	0.0100	0.00389	N/A	7716247
1,2,3,4,7,8,9-Hepta CDF **	pg/g	0.134 U	0.134	5.00	0.0400	0.0100	0.00134	N/A	7716247
Octa CDF **	pg/g	0.889 J	0.126	9.99	0.0799	0.000300	0.000267	N/A	7716247
Total Tetra CDF **	pg/g	0.112 U	0.112	0.999	0.0400	N/A	N/A	0	7716247
Total Penta CDF **	pg/g	0.157 U (1)	0.157	5.00	0.0400	N/A	N/A	0	7716247
Total Hexa CDF **	pg/g	0.424 J	0.119	5.00	0.0400	N/A	N/A	2	7716247
Total Hepta CDF **	pg/g	1.01 J	0.133	5.00	0.0400	N/A	N/A	2	7716247
TOTAL TOXIC EQUIVALENCY	pg/g	N/A	N/A	N/A	N/A	N/A	0.440	N/A	N/A
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	84	N/A	N/A	N/A	N/A	N/A	N/A	7716247

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

* CDD = Chloro Dibenzo-p-Dioxin

N/A = Not Applicable

** CDF = Chloro Dibenzo-p-Furan

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ801							
Sampling Date		2021/10/20 09:50							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-03-B-05-06	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-1234678 HeptaCDD *	%	58	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDF **	%	56	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDD *	%	72	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDF **	%	66	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234789 HeptaCDF **	%	59	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDD *	%	79	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDF **	%	68	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDD *	%	81	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDF **	%	66	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123789 HexaCDF **	%	66	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-234678 HexaCDF **	%	73	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-23478 PentaCDF **	%	77	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDD *	%	67	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDF **	%	65	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-OCDD *	%	48	N/A	N/A	N/A	N/A	N/A	N/A	7716247

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

* CDD = Chloro Dibenzo-p-Dioxin

N/A = Not Applicable

** CDF = Chloro Dibenzo-p-Furan



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ812							
Sampling Date		2021/10/20 09:57							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-103-B-05-06	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/g	0.109 U	0.109	1.00	0.0400	1.00	0.109	N/A	7716247
1,2,3,7,8-Penta CDD *	pg/g	0.113 U	0.113	5.00	0.0400	1.00	0.113	N/A	7716247
1,2,3,4,7,8-Hexa CDD *	pg/g	0.117 U	0.117	5.00	0.0400	0.100	0.0117	N/A	7716247
1,2,3,6,7,8-Hexa CDD *	pg/g	0.116 U	0.116	5.00	0.0400	0.100	0.0116	N/A	7716247
1,2,3,7,8,9-Hexa CDD *	pg/g	0.116 U	0.116	5.00	0.0400	0.100	0.0116	N/A	7716247
1,2,3,4,6,7,8-Hepta CDD *	pg/g	1.31 J	0.112	5.00	0.0400	0.0100	0.0131	N/A	7716247
Octa CDD *	pg/g	12.7	0.113	10.0	0.0800	0.000300	0.00381	N/A	7716247
Total Tetra CDD *	pg/g	0.359 J	0.109	1.00	0.0400	N/A	N/A	1	7716247
Total Penta CDD *	pg/g	0.113 U	0.113	5.00	0.0400	N/A	N/A	0	7716247
Total Hexa CDD *	pg/g	0.773 J	0.117	5.00	0.0400	N/A	N/A	2	7716247
Total Hepta CDD *	pg/g	3.29 J	0.112	5.00	0.0400	N/A	N/A	2	7716247
2,3,7,8-Tetra CDF **	pg/g	0.130 U	0.130	1.00	0.0400	0.100	0.0130	N/A	7716247
1,2,3,7,8-Penta CDF **	pg/g	0.112 U	0.112	5.00	0.0400	0.0300	0.00336	N/A	7716247
2,3,4,7,8-Penta CDF **	pg/g	0.101 U	0.101	5.00	0.0400	0.300	0.0303	N/A	7716247
1,2,3,4,7,8-Hexa CDF **	pg/g	0.0529 U	0.0529	5.00	0.0400	0.100	0.00529	N/A	7716247
1,2,3,6,7,8-Hexa CDF **	pg/g	0.0560 U	0.0560	5.00	0.0400	0.100	0.00560	N/A	7716247
2,3,4,6,7,8-Hexa CDF **	pg/g	0.0521 U	0.0521	5.00	0.0400	0.100	0.00521	N/A	7716247
1,2,3,7,8,9-Hexa CDF **	pg/g	0.0559 U	0.0559	5.00	0.0400	0.100	0.00559	N/A	7716247
1,2,3,4,6,7,8-Hepta CDF **	pg/g	0.108 U	0.108	5.00	0.0400	0.0100	0.00108	N/A	7716247
1,2,3,4,7,8,9-Hepta CDF **	pg/g	0.111 U	0.111	5.00	0.0400	0.0100	0.00111	N/A	7716247
Octa CDF **	pg/g	0.121 U	0.121	10.0	0.0800	0.000300	0.0000363	N/A	7716247
Total Tetra CDF **	pg/g	0.130 U	0.130	1.00	0.0400	N/A	N/A	0	7716247
Total Penta CDF **	pg/g	0.106 U	0.106	5.00	0.0400	N/A	N/A	0	7716247
Total Hexa CDF **	pg/g	0.0542 U	0.0542	5.00	0.0400	N/A	N/A	0	7716247
Total Hepta CDF **	pg/g	0.109 U	0.109	5.00	0.0400	N/A	N/A	0	7716247
TOTAL TOXIC EQUIVALENCY	pg/g	N/A	N/A	N/A	N/A	N/A	0.344	N/A	N/A
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	86	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDD *	%	49	N/A	N/A	N/A	N/A	N/A	N/A	7716247
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch * CDD = Chloro Dibenzo-p-Dioxin N/A = Not Applicable ** CDF = Chloro Dibenzo-p-Furan									



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ812							
Sampling Date		2021/10/20 09:57							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-103-B-05-06	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-1234678 HeptaCDF **	%	48	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDD *	%	68	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDF **	%	65	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234789 HeptaCDF **	%	55	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDD *	%	73	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDF **	%	68	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDD *	%	81	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDF **	%	68	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123789 HexaCDF **	%	67	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-234678 HexaCDF **	%	70	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-23478 PentaCDF **	%	78	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDD *	%	70	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDF **	%	68	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-OCDD *	%	37	N/A	N/A	N/A	N/A	N/A	N/A	7716247

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

** CDF = Chloro Dibenzo-p-Furan

N/A = Not Applicable

* CDD = Chloro Dibenzo-p-Dioxin



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ817							
Sampling Date		2021/10/20 14:15							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-04-B-05-06	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/g	0.151 U	0.151	1.00	0.0400	1.00	0.151	N/A	7716247
1,2,3,7,8-Penta CDD *	pg/g	0.319 J	0.135	5.00	0.0400	1.00	0.319	N/A	7716247
1,2,3,4,7,8-Hexa CDD *	pg/g	0.417 J	0.122	5.00	0.0400	0.100	0.0417	N/A	7716247
1,2,3,6,7,8-Hexa CDD *	pg/g	1.78 J	0.121	5.00	0.0400	0.100	0.178	N/A	7716247
1,2,3,7,8,9-Hexa CDD *	pg/g	1.23 J (1)	0.122	5.00	0.0400	0.100	0.123	N/A	7716247
1,2,3,4,6,7,8-Hepta CDD *	pg/g	39.9	0.121	5.00	0.0400	0.0100	0.399	N/A	7716247
Octa CDD *	pg/g	454	0.123	10.0	0.0800	0.000300	0.136	N/A	7716247
Total Tetra CDD *	pg/g	1.72	0.151	1.00	0.0400	N/A	N/A	3	7716247
Total Penta CDD *	pg/g	1.83 J	0.135	5.00	0.0400	N/A	N/A	6	7716247
Total Hexa CDD *	pg/g	13.2	0.123	5.00	0.0400	N/A	N/A	5	7716247
Total Hepta CDD *	pg/g	87.7	0.121	5.00	0.0400	N/A	N/A	2	7716247
2,3,7,8-Tetra CDF **	pg/g	0.927 J	0.125	1.00	0.0400	0.100	0.0927	N/A	7716247
1,2,3,7,8-Penta CDF **	pg/g	0.946 J	0.127	5.00	0.0400	0.0300	0.0284	N/A	7716247
2,3,4,7,8-Penta CDF **	pg/g	0.565 J	0.114	5.00	0.0400	0.300	0.170	N/A	7716247
1,2,3,4,7,8-Hexa CDF **	pg/g	2.52 J	0.115	5.00	0.0400	0.100	0.252	N/A	7716247
1,2,3,6,7,8-Hexa CDF **	pg/g	0.973 J	0.122	5.00	0.0400	0.100	0.0973	N/A	7716247
2,3,4,6,7,8-Hexa CDF **	pg/g	0.416 J	0.113	5.00	0.0400	0.100	0.0416	N/A	7716247
1,2,3,7,8,9-Hexa CDF **	pg/g	0.122 U	0.122	5.00	0.0400	0.100	0.0122	N/A	7716247
1,2,3,4,6,7,8-Hepta CDF **	pg/g	16.1	0.152	5.00	0.0400	0.0100	0.161	N/A	7716247
1,2,3,4,7,8,9-Hepta CDF **	pg/g	0.858 J	0.156	5.00	0.0400	0.0100	0.00858	N/A	7716247
Octa CDF **	pg/g	36.0	0.120	10.0	0.0800	0.000300	0.0108	N/A	7716247
Total Tetra CDF **	pg/g	6.84	0.125	1.00	0.0400	N/A	N/A	14	7716247
Total Penta CDF **	pg/g	13.1	0.120	5.00	0.0400	N/A	N/A	9	7716247
Total Hexa CDF **	pg/g	23.1	0.118	5.00	0.0400	N/A	N/A	10	7716247
Total Hepta CDF **	pg/g	47.4	0.153	5.00	0.0400	N/A	N/A	3	7716247
TOTAL TOXIC EQUIVALENCY	pg/g	N/A	N/A	N/A	N/A	N/A	2.22	N/A	N/A
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	101	N/A	N/A	N/A	N/A	N/A	N/A	7716247
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch * CDD = Chloro Dibenzo-p-Dioxin N/A = Not Applicable ** CDF = Chloro Dibenzo-p-Furan (1) EMPC / Merged Peak									



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ817							
Sampling Date		2021/10/20 14:15							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-04-B-05-06	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-1234678 HeptaCDD *	%	73	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDF **	%	69	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDD *	%	91	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDF **	%	82	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234789 HeptaCDF **	%	78	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDD *	%	98	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDF **	%	86	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDD *	%	102	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDF **	%	81	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123789 HexaCDF **	%	82	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-234678 HexaCDF **	%	84	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-23478 PentaCDF **	%	93	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDD *	%	83	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDF **	%	81	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-OCDD *	%	63	N/A	N/A	N/A	N/A	N/A	N/A	7716247
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch * CDD = Chloro Dibenzo-p-Dioxin N/A = Not Applicable ** CDF = Chloro Dibenzo-p-Furan									



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ818							
Sampling Date		2021/10/20 14:20							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-04-B-06-07	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
2,3,7,8-Tetra CDD *	pg/g	0.112 U	0.112	0.999	0.0400	1.00	0.112	N/A	7716247
1,2,3,7,8-Penta CDD *	pg/g	0.0999 U	0.0999	4.99	0.0400	1.00	0.0999	N/A	7716247
1,2,3,4,7,8-Hexa CDD *	pg/g	0.0999 U	0.0999	4.99	0.0400	0.100	0.00999	N/A	7716247
1,2,3,6,7,8-Hexa CDD *	pg/g	0.0991 U	0.0991	4.99	0.0400	0.100	0.00991	N/A	7716247
1,2,3,7,8,9-Hexa CDD *	pg/g	0.0993 U	0.0993	4.99	0.0400	0.100	0.00993	N/A	7716247
1,2,3,4,6,7,8-Hepta CDD *	pg/g	0.538 J	0.118	4.99	0.0400	0.0100	0.00538	N/A	7716247
Octa CDD *	pg/g	7.49 J	0.143	9.99	0.0799	0.000300	0.00225	N/A	7716247
Total Tetra CDD *	pg/g	0.164 J	0.112	0.999	0.0400	N/A	N/A	1	7716247
Total Penta CDD *	pg/g	0.0999 U	0.0999	4.99	0.0400	N/A	N/A	0	7716247
Total Hexa CDD *	pg/g	0.469 J	0.100	4.99	0.0400	N/A	N/A	2	7716247
Total Hepta CDD *	pg/g	1.65 J	0.118	4.99	0.0400	N/A	N/A	2	7716247
2,3,7,8-Tetra CDF **	pg/g	0.125 U	0.125	0.999	0.0400	0.100	0.0125	N/A	7716247
1,2,3,7,8-Penta CDF **	pg/g	0.0942 U	0.0942	4.99	0.0400	0.0300	0.00283	N/A	7716247
2,3,4,7,8-Penta CDF **	pg/g	0.0847 U	0.0847	4.99	0.0400	0.300	0.0254	N/A	7716247
1,2,3,4,7,8-Hexa CDF **	pg/g	0.0367 U	0.0367	4.99	0.0400	0.100	0.00367	N/A	7716247
1,2,3,6,7,8-Hexa CDF **	pg/g	0.0389 U	0.0389	4.99	0.0400	0.100	0.00389	N/A	7716247
2,3,4,6,7,8-Hexa CDF **	pg/g	0.0362 U	0.0362	4.99	0.0400	0.100	0.00362	N/A	7716247
1,2,3,7,8,9-Hexa CDF **	pg/g	0.0388 U	0.0388	4.99	0.0400	0.100	0.00388	N/A	7716247
1,2,3,4,6,7,8-Hepta CDF **	pg/g	0.105 U	0.105	4.99	0.0400	0.0100	0.00105	N/A	7716247
1,2,3,4,7,8,9-Hepta CDF **	pg/g	0.108 U	0.108	4.99	0.0400	0.0100	0.00108	N/A	7716247
Octa CDF **	pg/g	0.143 U	0.143	9.99	0.0799	0.000300	0.0000429	N/A	7716247
Total Tetra CDF **	pg/g	0.125 U	0.125	0.999	0.0400	N/A	N/A	0	7716247
Total Penta CDF **	pg/g	0.0892 U	0.0892	4.99	0.0400	N/A	N/A	0	7716247
Total Hexa CDF **	pg/g	0.0376 U	0.0376	4.99	0.0400	N/A	N/A	0	7716247
Total Hepta CDF **	pg/g	0.106 U	0.106	4.99	0.0400	N/A	N/A	0	7716247
TOTAL TOXIC EQUIVALENCY	pg/g	N/A	N/A	N/A	N/A	N/A	0.307	N/A	N/A
Surrogate Recovery (%)									
37CL4 2378 Tetra CDD *	%	99	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234678 HeptaCDD *	%	65	N/A	N/A	N/A	N/A	N/A	N/A	7716247
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch * CDD = Chloro Dibenzo-p-Dioxin N/A = Not Applicable ** CDF = Chloro Dibenzo-p-Furan									



DIOXINS AND FURANS BY HRMS (SOIL)

Bureau Veritas ID		REZ818							
Sampling Date		2021/10/20 14:20							
COC Number		n/a				TOXIC EQUIVALENCY		# of	
	UNITS	PDI-CORE-04-B-06-07	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-1234678 HeptaCDF **	%	61	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDD *	%	83	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123478 HexaCDF **	%	74	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-1234789 HeptaCDF **	%	71	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDD *	%	90	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123678 HexaCDF **	%	78	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDD *	%	94	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-12378 PentaCDF **	%	73	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-123789 HexaCDF **	%	77	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-234678 HexaCDF **	%	79	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-23478 PentaCDF **	%	87	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDD *	%	79	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-2378 TetraCDF **	%	74	N/A	N/A	N/A	N/A	N/A	N/A	7716247
C13-OCDD *	%	51	N/A	N/A	N/A	N/A	N/A	N/A	7716247

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

** CDF = Chloro Dibenzo-p-Furan

N/A = Not Applicable

* CDD = Chloro Dibenzo-p-Dioxin



TEST SUMMARY

Bureau Veritas ID: REZ798
Sample ID: PDI-CORE-01-A-07-08
Matrix: Soil

Collected: 2021/10/19
Shipped:
Received: 2021/11/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dioxins/Furans in Soil (1613B)	HRMS/MS	7716247	2021/11/24	2021/12/10	Angel Guerrero
Moisture	BAL	7699396	N/A	2021/11/13	Prgya Panchal

Bureau Veritas ID: REZ799
Sample ID: PDI-CORE-01-A-08-09
Matrix: Soil

Collected: 2021/10/19
Shipped:
Received: 2021/11/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dioxins/Furans in Soil (1613B)	HRMS/MS	7716247	2021/11/24	2021/12/10	Angel Guerrero
Moisture	BAL	7699396	N/A	2021/11/13	Prgya Panchal

Bureau Veritas ID: REZ800
Sample ID: PDI-CORE-03-B-04-05
Matrix: Soil

Collected: 2021/10/20
Shipped:
Received: 2021/11/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dioxins/Furans in Soil (1613B)	HRMS/MS	7716247	2021/11/24	2021/12/10	Angel Guerrero
Moisture	BAL	7699396	N/A	2021/11/13	Prgya Panchal

Bureau Veritas ID: REZ801
Sample ID: PDI-CORE-03-B-05-06
Matrix: Soil

Collected: 2021/10/20
Shipped:
Received: 2021/11/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dioxins/Furans in Soil (1613B)	HRMS/MS	7716247	2021/11/24	2021/12/11	Angel Guerrero
Moisture	BAL	7699396	N/A	2021/11/13	Prgya Panchal

Bureau Veritas ID: REZ812
Sample ID: PDI-CORE-103-B-05-06
Matrix: Soil

Collected: 2021/10/20
Shipped:
Received: 2021/11/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dioxins/Furans in Soil (1613B)	HRMS/MS	7716247	2021/11/24	2021/12/11	Angel Guerrero
Moisture	BAL	7699396	N/A	2021/11/13	Prgya Panchal

Bureau Veritas ID: REZ817
Sample ID: PDI-CORE-04-B-05-06
Matrix: Soil

Collected: 2021/10/20
Shipped:
Received: 2021/11/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dioxins/Furans in Soil (1613B)	HRMS/MS	7716247	2021/11/24	2021/12/11	Angel Guerrero
Moisture	BAL	7699396	N/A	2021/11/13	Prgya Panchal



Bureau Veritas Job #: C1X2305
Report Date: 2021/12/15

Apex Laboratories
Client Project #: A1J0786

TEST SUMMARY

Bureau Veritas ID: REZ818
Sample ID: PDI-CORE-04-B-06-07
Matrix: Soil

Collected: 2021/10/20
Shipped:
Received: 2021/11/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dioxins/Furans in Soil (1613B)	HRMS/MS	7716247	2021/11/24	2021/12/11	Angel Guerrero
Moisture	BAL	7699396	N/A	2021/11/13	Prgya Panchal



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.1°C

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
7699396	MYG	RPD - Sample/Sample Dup	Moisture	2021/11/13	1.9		%	20
7716247	AGU	Matrix Spike(REZ818)	37CL4 2378 Tetra CDD	2021/12/09		92	%	35 - 197
			C13-1234678 HeptaCDD	2021/12/09		45	%	23 - 140
			C13-1234678 HeptaCDF	2021/12/09		42	%	28 - 143
			C13-123478 HexaCDD	2021/12/09		69	%	32 - 141
			C13-123478 HexaCDF	2021/12/09		67	%	26 - 152
			C13-1234789 HeptaCDF	2021/12/09		60	%	26 - 138
			C13-123678 HexaCDD	2021/12/09		71	%	28 - 130
			C13-123678 HexaCDF	2021/12/09		68	%	26 - 123
			C13-12378 PentaCDD	2021/12/09		99	%	25 - 181
			C13-12378 PentaCDF	2021/12/09		83	%	24 - 185
			C13-123789 HexaCDF	2021/12/09		73	%	29 - 147
			C13-234678 HexaCDF	2021/12/09		89	%	28 - 136
			C13-23478 PentaCDF	2021/12/09		97	%	21 - 178
			C13-2378 TetraCDD	2021/12/09		75	%	25 - 164
			C13-2378 TetraCDF	2021/12/09		74	%	24 - 169
			C13-OCDD	2021/12/09		28	%	17 - 157
			2,3,7,8-Tetra CDD	2021/12/09		93	%	67 - 158
			1,2,3,7,8-Penta CDD	2021/12/09		99	%	25 - 181
			1,2,3,4,7,8-Hexa CDD	2021/12/09		113	%	70 - 164
			1,2,3,6,7,8-Hexa CDD	2021/12/09		118	%	76 - 134
			1,2,3,7,8,9-Hexa CDD	2021/12/09		109	%	64 - 162
			1,2,3,4,6,7,8-Hepta CDD	2021/12/09		114	%	70 - 140
			Octa CDD	2021/12/09		135	%	78 - 144
			Total Tetra CDD	2021/12/09		19	%	N/A
			Total Penta CDD	2021/12/09		98	%	N/A
			Total Hexa CDD	2021/12/09		340	%	N/A
			Total Hepta CDD	2021/12/09		114	%	N/A
			2,3,7,8-Tetra CDF	2021/12/09		108	%	75 - 158
			1,2,3,7,8-Penta CDF	2021/12/09		114	%	80 - 134
			2,3,4,7,8-Penta CDF	2021/12/09		110	%	68 - 160
			1,2,3,4,7,8-Hexa CDF	2021/12/09		113	%	72 - 134
			1,2,3,6,7,8-Hexa CDF	2021/12/09		115	%	84 - 130
			2,3,4,6,7,8-Hexa CDF	2021/12/09		95	%	70 - 156
			1,2,3,7,8,9-Hexa CDF	2021/12/09		113	%	78 - 130
			1,2,3,4,6,7,8-Hepta CDF	2021/12/09		126 (1)	%	82 - 122
			1,2,3,4,7,8,9-Hepta CDF	2021/12/09		116	%	78 - 138
			Octa CDF	2021/12/09		169	%	63 - 170
			Total Tetra CDF	2021/12/09		22	%	N/A
			Total Penta CDF	2021/12/09		224	%	N/A
			Total Hexa CDF	2021/12/09		437	%	N/A
			Total Hepta CDF	2021/12/09		242	%	N/A
7716247	AGU	Matrix Spike DUP(REZ818)	37CL4 2378 Tetra CDD	2021/12/09		66	%	35 - 197
			C13-1234678 HeptaCDD	2021/12/09		47	%	23 - 140
			C13-1234678 HeptaCDF	2021/12/09		51	%	28 - 143
			C13-123478 HexaCDD	2021/12/09		62	%	32 - 141
			C13-123478 HexaCDF	2021/12/09		58	%	26 - 152
			C13-1234789 HeptaCDF	2021/12/09		59	%	26 - 138
			C13-123678 HexaCDD	2021/12/09		65	%	28 - 130
			C13-123678 HexaCDF	2021/12/09		59	%	26 - 123
			C13-12378 PentaCDD	2021/12/09		80	%	25 - 181
			C13-12378 PentaCDF	2021/12/09		65	%	24 - 185
			C13-123789 HexaCDF	2021/12/09		62	%	29 - 147



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
				C13-234678 HexaCDF	2021/12/09		81	%	28 - 136
				C13-23478 PentaCDF	2021/12/09		77	%	21 - 178
				C13-2378 TetraCDD	2021/12/09		59	%	25 - 164
				C13-2378 TetraCDF	2021/12/09		56	%	24 - 169
				C13-OCDD	2021/12/09		38	%	17 - 157
				2,3,7,8-Tetra CDD	2021/12/09		96	%	67 - 158
				1,2,3,7,8-Penta CDD	2021/12/09		103	%	25 - 181
				1,2,3,4,7,8-Hexa CDD	2021/12/09		109	%	70 - 164
				1,2,3,6,7,8-Hexa CDD	2021/12/09		108	%	76 - 134
				1,2,3,7,8,9-Hexa CDD	2021/12/09		108	%	64 - 162
				1,2,3,4,6,7,8-Hepta CDD	2021/12/09		106	%	70 - 140
				Octa CDD	2021/12/09		113	%	78 - 144
				Total Tetra CDD	2021/12/09		19	%	N/A
				Total Penta CDD	2021/12/09		103	%	N/A
				Total Hexa CDD	2021/12/09		325	%	N/A
				Total Hepta CDD	2021/12/09		106	%	N/A
				2,3,7,8-Tetra CDF	2021/12/09		108	%	75 - 158
				1,2,3,7,8-Penta CDF	2021/12/09		115	%	80 - 134
				2,3,4,7,8-Penta CDF	2021/12/09		114	%	68 - 160
				1,2,3,4,7,8-Hexa CDF	2021/12/09		113	%	72 - 134
				1,2,3,6,7,8-Hexa CDF	2021/12/09		114	%	84 - 130
				2,3,4,6,7,8-Hexa CDF	2021/12/09		98	%	70 - 156
				1,2,3,7,8,9-Hexa CDF	2021/12/09		114	%	78 - 130
				1,2,3,4,6,7,8-Hepta CDF	2021/12/09		108	%	82 - 122
				1,2,3,4,7,8,9-Hepta CDF	2021/12/09		103	%	78 - 138
				Octa CDF	2021/12/09		136	%	63 - 170
				Total Tetra CDF	2021/12/09		22	%	N/A
				Total Penta CDF	2021/12/09		229	%	N/A
				Total Hexa CDF	2021/12/09		438	%	N/A
				Total Hepta CDF	2021/12/09		211	%	N/A
7716247	AGU	MS/MSD RPD		2,3,7,8-Tetra CDD	2021/12/09	3.2		%	25
				1,2,3,7,8-Penta CDD	2021/12/09	4.0		%	25
				1,2,3,4,7,8-Hexa CDD	2021/12/09	3.6		%	25
				1,2,3,6,7,8-Hexa CDD	2021/12/09	8.8		%	25
				1,2,3,7,8,9-Hexa CDD	2021/12/09	0.92		%	25
				1,2,3,4,6,7,8-Hepta CDD	2021/12/09	7.3		%	25
				Octa CDD	2021/12/09	18		%	25
				Total Tetra CDD	2021/12/09	3.5		%	25
				Total Penta CDD	2021/12/09	4.6		%	25
				Total Hexa CDD	2021/12/09	4.5		%	25
				Total Hepta CDD	2021/12/09	7.4		%	25
				2,3,7,8-Tetra CDF	2021/12/09	0		%	25
				1,2,3,7,8-Penta CDF	2021/12/09	0.87		%	25
				2,3,4,7,8-Penta CDF	2021/12/09	3.6		%	25
				1,2,3,4,7,8-Hexa CDF	2021/12/09	0		%	25
				1,2,3,6,7,8-Hexa CDF	2021/12/09	0.87		%	25
				2,3,4,6,7,8-Hexa CDF	2021/12/09	3.1		%	25
				1,2,3,7,8,9-Hexa CDF	2021/12/09	0.88		%	25
				1,2,3,4,6,7,8-Hepta CDF	2021/12/09	15		%	25
				1,2,3,4,7,8,9-Hepta CDF	2021/12/09	12		%	25
				Octa CDF	2021/12/09	22		%	25
				Total Tetra CDF	2021/12/09	0.81		%	25
				Total Penta CDF	2021/12/09	1.9		%	25



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
7716247	AGU	Spiked Blank	Total Hexa CDF	2021/12/09	0.38		%	25
			Total Hepta CDF	2021/12/09	14		%	25
			37CL4 2378 Tetra CDD	2021/12/09		97	%	35 - 197
			C13-1234678 HeptaCDD	2021/12/09		67	%	23 - 140
			C13-1234678 HeptaCDF	2021/12/09		71	%	28 - 143
			C13-123478 HexaCDD	2021/12/09		82	%	32 - 141
			C13-123478 HexaCDF	2021/12/09		81	%	26 - 152
			C13-1234789 HeptaCDF	2021/12/09		73	%	26 - 138
			C13-123678 HexaCDD	2021/12/09		88	%	28 - 130
			C13-123678 HexaCDF	2021/12/09		84	%	26 - 123
			C13-12378 PentaCDD	2021/12/09		99	%	25 - 181
			C13-12378 PentaCDF	2021/12/09		82	%	24 - 185
			C13-123789 HexaCDF	2021/12/09		80	%	29 - 147
			C13-234678 HexaCDF	2021/12/09		112	%	28 - 136
			C13-23478 PentaCDF	2021/12/09		95	%	21 - 178
			C13-2378 TetraCDD	2021/12/09		80	%	25 - 164
			C13-2378 TetraCDF	2021/12/09		77	%	24 - 169
			C13-OCDD	2021/12/09		56	%	17 - 157
			2,3,7,8-Tetra CDD	2021/12/09		95	%	67 - 158
			1,2,3,7,8-Penta CDD	2021/12/09		108	%	25 - 181
			1,2,3,4,7,8-Hexa CDD	2021/12/09		110	%	70 - 164
			1,2,3,6,7,8-Hexa CDD	2021/12/09		113	%	76 - 134
			1,2,3,7,8,9-Hexa CDD	2021/12/09		108	%	64 - 162
			1,2,3,4,6,7,8-Hepta CDD	2021/12/09		105	%	70 - 140
			Octa CDD	2021/12/09		115	%	78 - 144
			2,3,7,8-Tetra CDF	2021/12/09		108	%	75 - 158
			1,2,3,7,8-Penta CDF	2021/12/09		112	%	80 - 134
			2,3,4,7,8-Penta CDF	2021/12/09		115	%	68 - 160
			1,2,3,4,7,8-Hexa CDF	2021/12/09		114	%	72 - 134
			1,2,3,6,7,8-Hexa CDF	2021/12/09		112	%	84 - 130
			2,3,4,6,7,8-Hexa CDF	2021/12/09		95	%	70 - 156
			1,2,3,7,8,9-Hexa CDF	2021/12/09		115	%	78 - 130
			1,2,3,4,6,7,8-Hepta CDF	2021/12/09		115	%	82 - 122
			1,2,3,4,7,8,9-Hepta CDF	2021/12/09		101	%	78 - 138
			Octa CDF	2021/12/09		115	%	63 - 170
7716247	AGU	Method Blank	37CL4 2378 Tetra CDD	2021/12/09		89	%	35 - 197
			C13-1234678 HeptaCDD	2021/12/09		78	%	23 - 140
			C13-1234678 HeptaCDF	2021/12/09		86	%	28 - 143
			C13-123478 HexaCDD	2021/12/09		86	%	32 - 141
			C13-123478 HexaCDF	2021/12/09		88	%	26 - 152
			C13-1234789 HeptaCDF	2021/12/09		90	%	26 - 138
			C13-123678 HexaCDD	2021/12/09		96	%	28 - 130
			C13-123678 HexaCDF	2021/12/09		92	%	26 - 123
			C13-12378 PentaCDD	2021/12/09		100	%	25 - 181
			C13-12378 PentaCDF	2021/12/09		86	%	24 - 185
			C13-123789 HexaCDF	2021/12/09		89	%	29 - 147
			C13-234678 HexaCDF	2021/12/09		124	%	28 - 136
			C13-23478 PentaCDF	2021/12/09		103	%	21 - 178
			C13-2378 TetraCDD	2021/12/09		79	%	25 - 164
			C13-2378 TetraCDF	2021/12/09		77	%	24 - 169
			C13-OCDD	2021/12/09		70	%	17 - 157
			2,3,7,8-Tetra CDD	2021/12/09	0.122 U, EDL=0.122		pg/g	



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			1,2,3,7,8-Penta CDD	2021/12/09	0.108 U, EDL=0.108		pg/g	
			1,2,3,4,7,8-Hexa CDD	2021/12/09	0.116 U, EDL=0.116		pg/g	
			1,2,3,6,7,8-Hexa CDD	2021/12/09	0.115 U, EDL=0.115		pg/g	
			1,2,3,7,8,9-Hexa CDD	2021/12/09	0.115 U, EDL=0.115		pg/g	
			1,2,3,4,6,7,8-Hepta CDD	2021/12/09	0.121 U, EDL=0.121		pg/g	
			Octa CDD	2021/12/09	0.118 U, EDL=0.118		pg/g	
			Total Tetra CDD	2021/12/09	0.122 U, EDL=0.122		pg/g	
			Total Penta CDD	2021/12/09	0.108 U, EDL=0.108		pg/g	
			Total Hexa CDD	2021/12/09	0.116 U, EDL=0.116		pg/g	
			Total Hepta CDD	2021/12/09	0.121 U, EDL=0.121		pg/g	
			2,3,7,8-Tetra CDF	2021/12/09	0.0976 U, EDL=0.0976		pg/g	
			1,2,3,7,8-Penta CDF	2021/12/09	0.109 U, EDL=0.109		pg/g	
			2,3,4,7,8-Penta CDF	2021/12/09	0.0978 U, EDL=0.0978		pg/g	
			1,2,3,4,7,8-Hexa CDF	2021/12/09	0.103 U, EDL=0.103		pg/g	
			1,2,3,6,7,8-Hexa CDF	2021/12/09	0.109 U, EDL=0.109		pg/g	
			2,3,4,6,7,8-Hexa CDF	2021/12/09	0.101 U, EDL=0.101		pg/g	
			1,2,3,7,8,9-Hexa CDF	2021/12/09	0.109 U, EDL=0.109		pg/g	
			1,2,3,4,6,7,8-Hepta CDF	2021/12/09	0.0970 U, EDL=0.0970		pg/g	
			1,2,3,4,7,8,9-Hepta CDF	2021/12/09	0.0996 U, EDL=0.0996		pg/g	
			Octa CDF	2021/12/09	0.129 U, EDL=0.129		pg/g	
			Total Tetra CDF	2021/12/09	0.0976 U, EDL=0.0976		pg/g	
			Total Penta CDF	2021/12/09	0.103 U, EDL=0.103		pg/g	
			Total Hexa CDF	2021/12/09	0.105 U, EDL=0.105		pg/g	



QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
				Total Hepta CDF	2021/12/09	0.0983 U, EDL=0.0983		pg/g	
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference. Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy. Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination. Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency. (1) Recovery of the matrix spike was above the upper control limit. Laboratory Spike QC resulted in satisfactory recovery of the compound of interest. When considered together, these QC data suggest that matrix interferences may be biasing the data high. For results that were not detected (ND), this potential bias has no impact.									



VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Melissa DiGrazia, Operations Manager, HRMS Department

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Method 1613 – Tetra thru Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS

**Bureau Veritas Canada (2019)
Inc.
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.bvlabs.com**



3.0 Sample Custody

**Bureau Veritas Canada (2019)
Inc.
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.bvlabs.com**

11-Nov-21 12:46

Lori Dufour



CIX2305

NE4 ENV-1575

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darrell Auvil

SUBCONTRACT ORDER

Apex Laboratories

A1J0786

RECEIVING LABORATORY:

BV Labs / Maxxam
C/O FEDEX DEPOT 299 Cayuga Rd
Cheektowaga, NY 14225
Phone: (800) 668-0639
Fax: (905) 332-9169

Sample Name: **PDI-Core-01-A-07-08** Sediment Sampled: 10/19/21 17:40 (A1J0786-05)

Analysis	Due	Expires	Comments
1613B Dioxins and Furans (SUB)	11/29/21 17:00	10/19/22 17:40	BV Lab -- full level 4 data package
Containers Supplied: (B)4 oz Glass Jar			

Sample Name: **PDI-Core-01-A-08-09** Sediment Sampled: 10/19/21 17:45 (A1J0786-06)

Analysis	Due	Expires	Comments
1613B Dioxins and Furans (SUB)	11/29/21 17:00	10/19/22 17:45	BV Lab -- full level 4 data package
Containers Supplied: (B)4 oz Glass Jar			

Sample Name: **PDI-Core-03-B-04-05** Sediment Sampled: 10/20/21 09:45 (A1J0786-14)

Analysis	Due	Expires	Comments
1613B Dioxins and Furans (SUB)	11/29/21 17:00	10/20/22 09:45	BV Lab -- full level 4 data package
Containers Supplied: (B)4 oz Glass Jar			

Sample Name: **PDI-Core-03-B-05-06** Sediment Sampled: 10/20/21 09:50 (A1J0786-15)

Analysis	Due	Expires	Comments
1613B Dioxins and Furans (SUB)	11/29/21 17:00	10/20/22 09:50	BV Lab -- full level 4 data package
Containers Supplied: (B)4 oz Glass Jar			

Standard TAT



Released By *[Signature]*

Date 11/10/21

Fed Ex (Shipper)

Fed Ex (Shipper)

Received By

Date 5.114.0162

Released By

Date

Received By

Date

2021/11/11 12:46

SUBCONTRACT ORDER

Apex Laboratories

A1J0786

6 containers provided, 8 on CoC. ID reads PDI-			
Sample Name: PDI-Core-103-B-05-06	Sediment	Sampled: 10/20/21 09:57	(A1J0786-20)
Analysis	Due	Expires	Comments
1613B Dioxins and Furans (SUB) <i>Containers Supplied:</i> (B)4 oz Glass Jar	11/29/21 17:00	10/20/22 09:57	BV Lab -- full level 4 data package
Sample Name: PDI-Core-04-B-05-06	Sediment	Sampled: 10/20/21 14:15	(A1J0786-24)
Analysis	Due	Expires	Comments
1613B Dioxins and Furans (SUB) <i>Containers Supplied:</i> (B)4 oz Glass Jar	11/29/21 17:00	10/20/22 14:15	BV Lab -- full level 4 data package
Sample Name: PDI-Core-04-B-06-07	Sediment	Sampled: 10/20/21 14:20	(A1J0786-25)
Analysis	Due	Expires	Comments
1613B Dioxins and Furans (SUB) <i>Containers Supplied:</i> (D)4 oz Glass Jar	11/29/21 17:00	10/20/22 14:20	MS and MSD needed: BV Lab -- full level 4 data package

Standard TAT



Released By <u>[Signature]</u>	Date <u>11/10/21</u>	Received By <u>Fed Ex (Shipper)</u>	Date
Released By <u>Fed Ex (Shipper)</u>	Date	Received By <u>SEE PAGE 1</u>	Date



4.0 Initial Calibration Data

**Bureau Veritas Canada (2019)
Inc.
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.bvlabs.com**

M3211127A - 1613

Bottle	File Name	File Text	Sample ID	MS File	Inlet File
20	M3211127A01A	db5_win_perf	19/05/03-WSS	1613_ult3	gc_DF
1	M3211127A02A	SOLVENT	SOLVENT	1613_ult3	gc_DF
1	M3211127A03A	SOLVENT	SOLVENT	1613_ult3	gc_DF
8	M3211127A04	csL_1613	Lot 13CSL0918	1613_ult3	gc_DF
9	M3211127A05	cs1_1613	Lot 13CS11020	1613_ult3	gc_DF
10	M3211127A06	cs2_1613	Lot 13CS21020	1613_ult3	gc_DF
11	M3211127A07	cs3_1613	Lot 13CS31019	1613_ult3	gc_DF
12	M3211127A08	cs4_1613	Lot 13CS41019	1613_ult3	gc_DF
13	M3211127A09	cs5_1613	Lot 13CS51019	1613_ult3	gc_DF
1	M3211127A10	SOLVENT	SOLVENT	1613_ult3	gc_DF
18	M3211127A11	db5_win_perf/CS3	Lot CS3WT1020	1613_ult3	gc_DF

M3211127A - 1613 - Cal - (5PK + 6PK)

NAME M3211127A - 1613
NOW 6PK

EPA Method 1613 Calibration

File	M3211127A05	M3211127A06	M3211127A07	M3211127A08	M3211127A09	Mean RRF	RRF SD	%RSD
Level	CS1	CS2	CS3	CS4	CS5			
2,3,7,8-TCDF	0.893	0.934	1.006	1.009	1.017	0.972	0.055	5.7%
1,2,3,7,8-PeCDF	0.917	0.956	1.004	1.010	1.011	0.979	0.042	4.3%
2,3,4,7,8-PeCDF	1.018	1.075	1.117	1.120	1.118	1.090	0.044	4.0%
1,2,3,4,7,8-HxCDF	1.138	1.135	1.198	1.190	1.136	1.159	0.032	2.7%
1,2,3,6,7,8-HxCDF	1.051	1.102	1.133	1.101	1.086	1.095	0.030	2.7%
2,3,4,6,7,8-HxCDF	1.148	1.188	1.203	1.207	1.137	1.177	0.032	2.8%
1,2,3,7,8,9-HxCDF	1.056	1.101	1.125	1.127	1.077	1.097	0.031	2.8%
1,2,3,4,6,7,8-HpCDF	1.167	1.214	1.257	1.250	1.154	1.208	0.047	3.9%
1,2,3,4,7,8,9-HpCDF	1.115	1.135	1.205	1.226	1.204	1.177	0.049	4.2%
OCDF	1.171	1.194	1.317	1.344	1.174	1.240	0.084	6.7%
2,3,7,8-TCDD	1.131	1.113	1.294	1.335	1.332	1.241	0.110	8.9%
1,2,3,7,8-PeCDD	1.060	1.081	1.140	1.140	1.161	1.116	0.043	3.9%
1,2,3,4,7,8-HxCDD	1.056	1.091	1.135	1.152	1.122	1.111	0.038	3.4%
1,2,3,6,7,8-HxCDD	1.085	1.112	1.148	1.137	1.116	1.120	0.024	2.2%
1,2,3,7,8,9-HxCDD	1.037	1.102	1.123	1.118	1.088	1.093	0.034	3.2%
1,2,3,4,6,7,8-HpCDD	1.061	1.076	1.101	1.099	1.087	1.085	0.017	1.5%
OCDD	1.025	1.029	1.119	1.081	1.018	1.055	0.044	4.2%
13C-2,3,7,8-TCDF	2.149	2.095	2.161	2.075	2.244	2.145	0.066	3.1%
13C-1,2,3,7,8-PeCDF	1.555	1.428	1.534	1.531	1.839	1.577	0.154	9.8%
13C-2,3,4,7,8-PeCDF	1.487	1.365	1.481	1.489	1.849	1.534	0.183	12.0%
13C-1,2,3,4,7,8-HxCDF	1.358	1.354	1.323	1.327	1.303	1.333	0.023	1.7%
13C-1,2,3,6,7,8-HxCDF	1.496	1.437	1.431	1.447	1.363	1.435	0.048	3.3%
13C-2,3,4,6,7,8-HxCDF	1.373	1.359	1.355	1.316	1.288	1.338	0.035	2.6%
13C-1,2,3,7,8,9-HxCDF	1.299	1.252	1.280	1.217	1.207	1.251	0.040	3.2%
13C-1,2,3,4,6,7,8-HpCDF	1.332	1.283	1.298	1.246	1.172	1.266	0.061	4.8%
13C-1,2,3,4,7,8,9-HpCDF	1.088	1.120	1.075	1.051	0.982	1.063	0.052	4.9%
13C-2,3,7,8-TCDD	1.148	1.191	1.113	1.101	1.242	1.159	0.058	5.0%
13C-1,2,3,7,8-PeCDD	0.781	0.731	0.781	0.805	1.010	0.822	0.109	13.2%
13C-1,2,3,4,7,8-HxCDD	0.909	0.917	0.915	0.889	0.925	0.911	0.014	1.5%
13C-1,2,3,6,7,8-HxCDD	0.968	0.941	0.945	0.940	0.964	0.952	0.013	1.4%
13C-1,2,3,4,6,7,8-HpCDD	0.959	0.955	0.953	0.936	0.904	0.942	0.023	2.4%
13C-OCDD	0.763	0.793	0.725	0.735	0.757	0.755	0.027	3.5%
3/Cl-2,3,7,8-TCDD	2.363	2.254	2.571	2.531	2.871	2.518	0.235	9.3%
using 2 internals								
1,2,3,7,8,9-HxCDD	1.070	1.116	1.141	1.149	1.110	1.117372	0.031	2.8%

EPA Method 1613 Calibration

	CS1	CS2	CS3	CS4	CS5
	M3211127A05	M3211127A06	M3211127A07	M3211127A08	M3211127A09
2,3,7,8-TCDF	37563	143268	983518	4448529	26277885
1,2,3,7,8-PeCDF	139537	499650	3484254	16432032	107104780
2,3,4,7,8-PeCDF	148242	537470	3745547	17711922	119117220
1,2,3,4,7,8-HxCDF	171077	544980	3828047	18469649	117274996
1,2,3,6,7,8-HxCDF	174063	561785	3916616	18641388	117359692
2,3,4,6,7,8-HxCDF	174356	572789	3938761	18588428	116076292
1,2,3,7,8,9-HxCDF	151868	488842	3477666	16049672	103058064
1,2,3,4,6,7,8-HpCDF	172066	552333	3942697	18223693	107170320
1,2,3,4,7,8,9-HpCDF	134310	450670	3127376	15084287	93720260
OCDF	197586	671281	4611199	23118717	141007024
2,3,7,8-TCDD	25421	96996	652178	3123345	19062233
1,2,3,7,8-PeCDD	81007	289185	2015521	9751408	67513996
1,2,3,4,7,8-HxCDD	106230	354726	2508764	11984194	82269120
1,2,3,6,7,8-HxCDD	116270	371167	2621926	12502493	85271240
1,2,3,7,8,9-HxCDD	111110	367794	2563841	12294248	83114140
1,2,3,4,6,7,8-HpCDD	112665	364256	2534016	12039712	77900228
OCDD	173041	578684	3917365	18608857	122208792
13C-2,3,7,8-TCDF	8413752	766424	9780894	11025482	12925216
13C-1,2,3,7,8-PeCDF	6089319	5225090	6944073	8135199	10593702
13C-2,3,4,7,8-PeCDF	5823551	4997472	6706423	7908757	10651581
13C-1,2,3,4,7,8-HxCDF	6011788	4800457	6389482	7760819	10326147
13C-1,2,3,6,7,8-HxCDF	6622997	5097268	6913561	8467972	10805376
13C-2,3,4,6,7,8-HxCDF	6076966	4819452	6547081	7701204	10211643
13C-1,2,3,7,8,9-HxCDF	5751149	4439731	6182975	7121236	9565074
13C-1,2,3,4,6,7,8-HpCDF	5898280	4550651	6270867	7289770	9288589
13C-1,2,3,4,7,8,9-HpCDF	4818309	3971829	5192187	6150307	7780981
13C-2,3,7,8-TCDD	4496329	4357635	5039933	5848240	7156032
13C-1,2,3,7,8-PeCDD	3056445	2675101	3537465	4276898	5817189
13C-1,2,3,4,7,8-HxCDD	4022185	3251856	4419646	5200181	7329608
13C-1,2,3,6,7,8-HxCDD	4285833	3337884	4566627	5498505	7641469
13C-1,2,3,4,6,7,8-HpCDD	4246653	3386524	4603980	5478124	7164509
13C-OCDD	6751797	5623862	7000884	8603342	12006667
13C-1,2,3,4-TCDD	3915282	3660248	4526958	5312932	5760788
13C-1,2,3,7,8,9-HxCDD	4427210	3546086	4830288	5850448	7925612

EPA Method 1613 Calibration

37Cl-2,3,7,8-TCDD	46260	164973	1163734	5379100	33079986

Quantify Sample Summary Report

Sample List: C:\MASLIX\Default.pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASLIX\Default.pro\METHOD\BPA 1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 14:29:05 2021

Sample Name: M3211127A05 Sample ID: Lot 13CS11020

#	Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RFlag	Response	Flags	Pg	Dev	%Rec	IS#	RRF
1	2,3,7,8-TCDF	24.659	16315	21247	37563	0.77	YES	0.446	bb	0.459	-8	92	18	0.893
2	1,2,3,7,8-PeCDF	32.034	85926	53611	139537	1.60	YES	2.292	bb	2.340	-6	94	19	0.917
3	2,3,4,7,8-PeCDF	33.664	89354	58888	148242	1.52	YES	2.566	bb	2.336	-7	93	20	1.018
4	1,2,3,4,7,8-HxCDF	38.128	96151	74926	171077	1.28	YES	2.846	bd	2.454	-2	98	21	1.138
5	1,2,3,6,7,8-HxCDF	38.262	97268	76795	174063	1.27	YES	2.628	dd	2.401	-4	96	22	1.138
6	2,3,4,6,7,8-HxCDF	38.932	97623	76795	174356	1.27	YES	2.628	bb	2.439	-2	98	23	1.148
7	1,2,3,7,8,9-HxCDF	39.758	85945	65923	151868	1.30	YES	2.869	bd	2.406	-4	96	24	1.056
8	1,2,3,4,6,7,8-HpCDF	41.478	87835	84231	172066	1.04	YES	2.917	bd	2.414	-3	97	25	1.167
9	1,2,3,4,7,8,9-HpCDF	42.768	98199	66111	134310	1.03	YES	2.787	bb	2.368	-5	95	26	1.115
10	OCDF	45.465	95140	102446	197586	0.93	YES	5.053	bb	4.720	-6	94	32	1.171
11	2,3,7,8-TCDD	45.735	11139	14282	25421	0.78	YES	0.565	bb	0.456	-9	91	27	1.131
12	1,2,3,7,8-PeCDD	25.735	49943	31064	81007	1.61	YES	2.650	bb	2.374	-5	95	28	1.060
13	1,2,3,4,7,8-HxCDD	39.108	59285	46944	106230	1.26	YES	2.641	bd	2.376	-5	95	29	1.056
14	1,2,3,6,7,8-HxCDD	39.211	64540	51730	116270	1.25	YES	2.713	db	2.423	-3	97	30	1.085
15	1,2,3,7,8,9-HxCDD	39.551	62892	48218	111110	1.30	YES	2.592	bd	2.371	-5	95	30	1.037
16	1,2,3,4,6,7,8-HpCDD	42.417	57902	54764	112665	1.06	YES	2.653	bb	2.446	-2	98	31	1.061
17	OCDD	45.359	82808	90133	173041	0.92	YES	5.126	bd	4.861	-3	97	32	1.025
18	1,2,3,7,8-TCDF	24.637	3706566	4707186	8413752	0.79	YES	214.895	bb	100.204	0	100	33	2.149
19	1,2,3,7,8-PeCDF	32.003	3751220	2338099	6089319	1.60	YES	155.527	db	98.599	-1	99	33	1.555
20	1,2,3,4,7,8-HxCDF	33.663	3576059	2247492	5823551	1.59	YES	148.739	bb	96.940	-3	97	33	1.487
21	1,2,3,6,7,8-HxCDF	38.118	2077405	3934383	6011788	1.53	YES	135.792	bd	101.887	2	102	34	1.358
22	1,2,3,4,6,7,8-HxCDF	38.252	2282763	4340235	6622997	0.53	YES	149.598	dd	104.242	4	104	34	1.496
23	1,2,3,7,8,9-HxCDF	38.912	2107263	3969703	5751149	0.53	YES	137.264	bb	102.559	3	103	34	1.373
24	1,2,3,4,6,7,8-HpCDF	39.737	1997684	3753465	6076966	0.53	YES	129.905	bb	103.838	4	104	34	1.299
25	1,2,3,7,8,9-HpCDF	41.457	1843395	4054885	5898280	0.46	YES	133.228	bb	105.205	5	105	34	1.332
26	1,2,3,4,6,7,8-HpCDF	42.757	1500587	3317722	4818309	0.45	YES	108.834	bb	102.358	2	102	34	1.088
27	1,2,3,7,8-TCDD	25.702	2008404	2487926	4496329	0.81	YES	114.841	bb	99.082	-1	99	33	1.148
28	1,2,3,7,8-PeCDD	34.365	1906956	1149489	3056445	1.66	YES	78.064	bb	95.022	-5	95	33	0.781
29	1,2,3,4,7,8-HxCDD	39.097	2258978	1763207	4022185	1.28	YES	90.851	bd	99.745	-0	100	34	0.909
30	1,2,3,6,7,8-HxCDD	39.201	2406513	1879320	4285833	1.28	YES	96.807	db	101.714	2	102	34	0.968
31	1,2,3,7,8,9-HxCDD	42.406	2177827	2068826	4246653	1.05	YES	95.922	bb	101.877	2	102	34	0.959
32	1,2,3,4,6,7,8-HpCDD	45.348	3249682	3502115	6751797	0.83	YES	152.507	bb	202.107	1	101	34	0.763
33	1,2,3,7,8-TCDD	25.416	1780507	2194774	3915282	1.28	YES	442.7210.375	bb	84.468	-16	84	0	3.9152.816
34	1,2,3,7,8-PeCDD	39.541	2488797	1938414	4427210	1.00	YES	1.182	bb	83.282	-17	83	0	4.4272.104
35	1,2,3,4,6,7,8-HpCDD	25.724	23130	23130	46260	1.00	YES	1.182	bb	0.469	-6	94	33	2.363
36	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	0.459	-	-	18	-
37	Totals Penta-Dioxins	-	0	0	0	-	-	-	-	0.456	-	-	27	-
38	Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	4.675	-	-	0	-
39	Totals Hepta-Furans	-	0	0	0	-	-	-	-	2.374	-	-	28	-
40	Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	9.700	-	-	0	-
41	Totals Hepta-Furans	-	0	0	0	-	-	-	-	7.170	-	-	30	-
42	Totals Hepta-Furans	-	0	0	0	-	-	-	-	4.825	-	-	0	-
43	Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	2.481	-	-	31	-

5 Pds.

Quantity Sample Report

Sample List: C:\MSI\SLINK\Default.pro\SMPL\EDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSI\SLINK\Default.pro\METHOD\M321127A_HC_secs_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

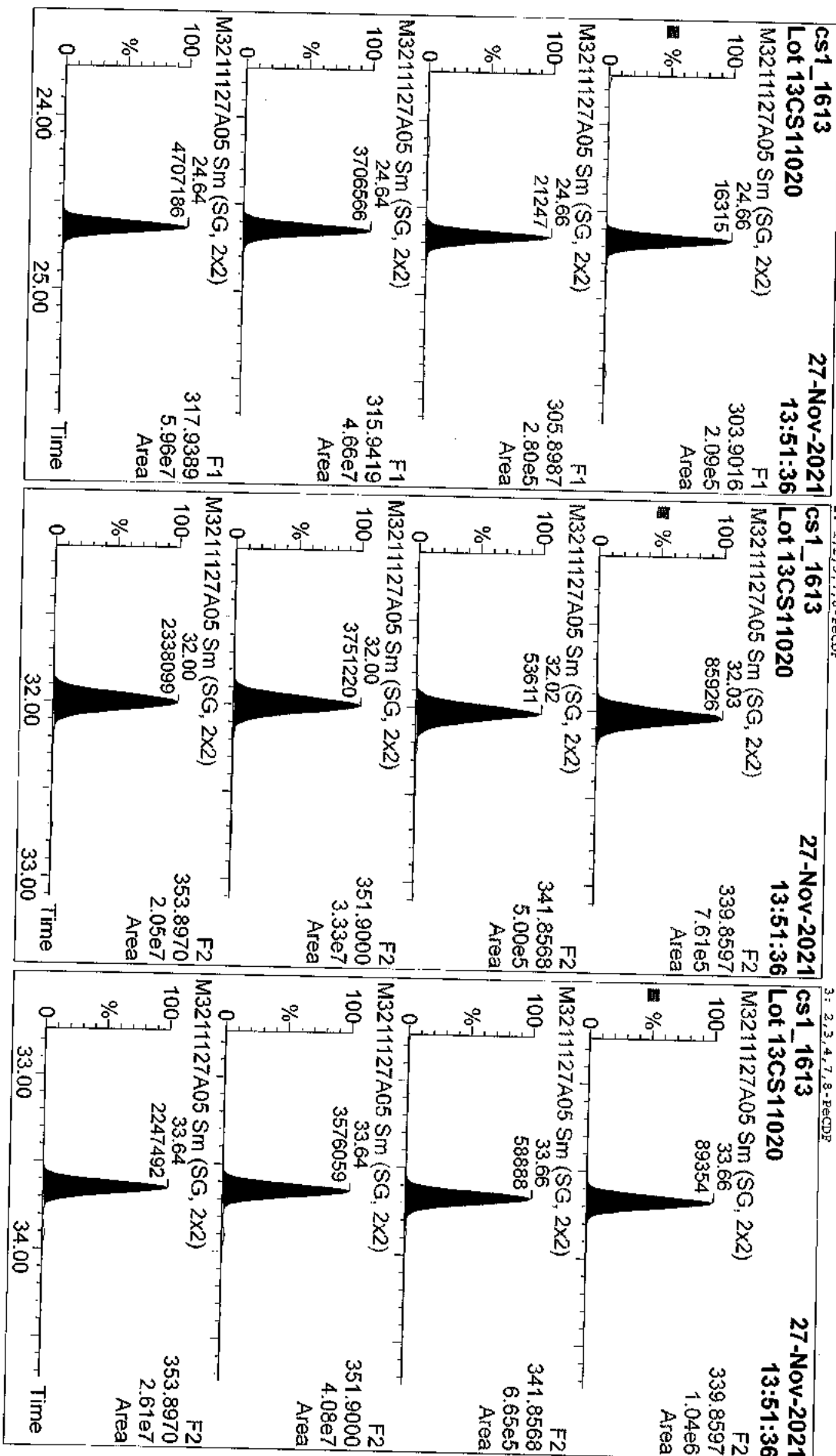
Printed: Mon Nov 29 14:29:45 2021

Name: M321127A05
 Text: cs1_1613

1: 2,3,7,8-TCDF

2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF



Quantify Sample Report

Sample List: C:\MASSLTX\Default.pro\BAPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M3211027A_HC_std6_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A05
 Text: cs1_1613

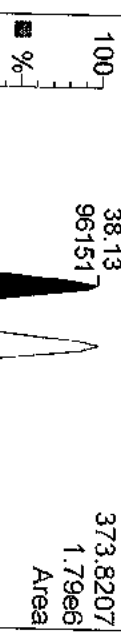
4: 1,2,3,4,7,8-HxCDF

5: 1,2,3,6,7,8-HxCDF

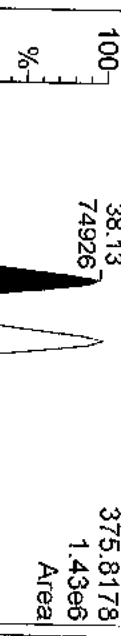
6: 2,3,4,6,7,8-HxCDF

cs1_1613
 Lot 13CS11020
 27-Nov-2021
 13:51:36

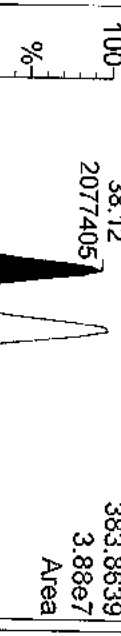
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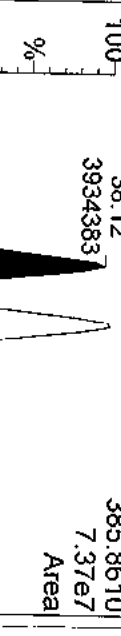
M3211027A05 Sm (SG, 2x2)



M3211027A05 Sm (SG, 2x2)

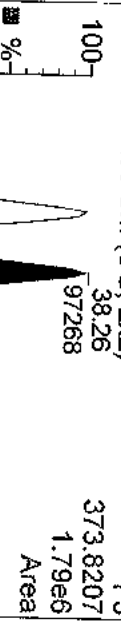


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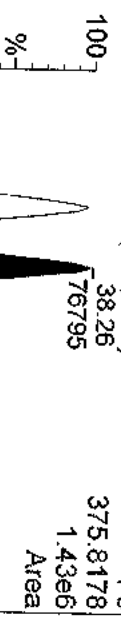


cs1_1613
 Lot 13CS11020
 27-Nov-2021
 13:51:36

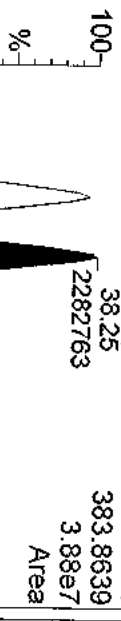
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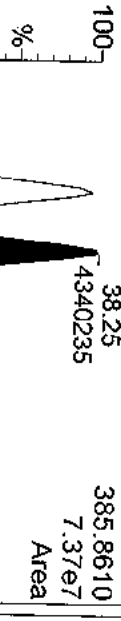
M3211027A05 Sm (SG, 2x2)



M3211027A05 Sm (SG, 2x2)

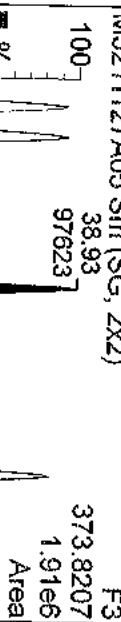


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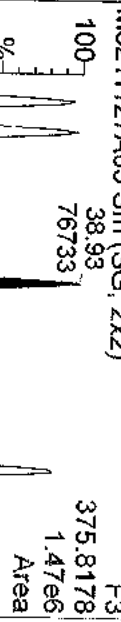


cs1_1613
 Lot 13CS11020
 27-Nov-2021
 13:51:36

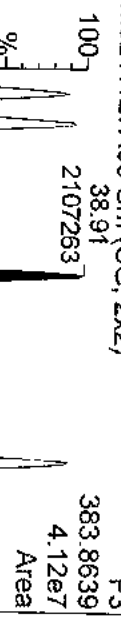
M3211027A05 Sm (SG, 2x2)



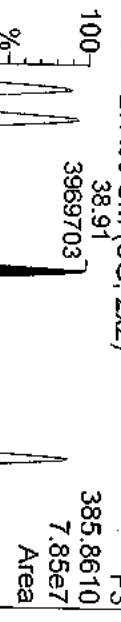
M3211027A05 Sm (SG, 2x2)



M3211027A05 Sm (SG, 2x2)



M3211027A05 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSL\N\Default-pro\SMFLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSL\N\Default-pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

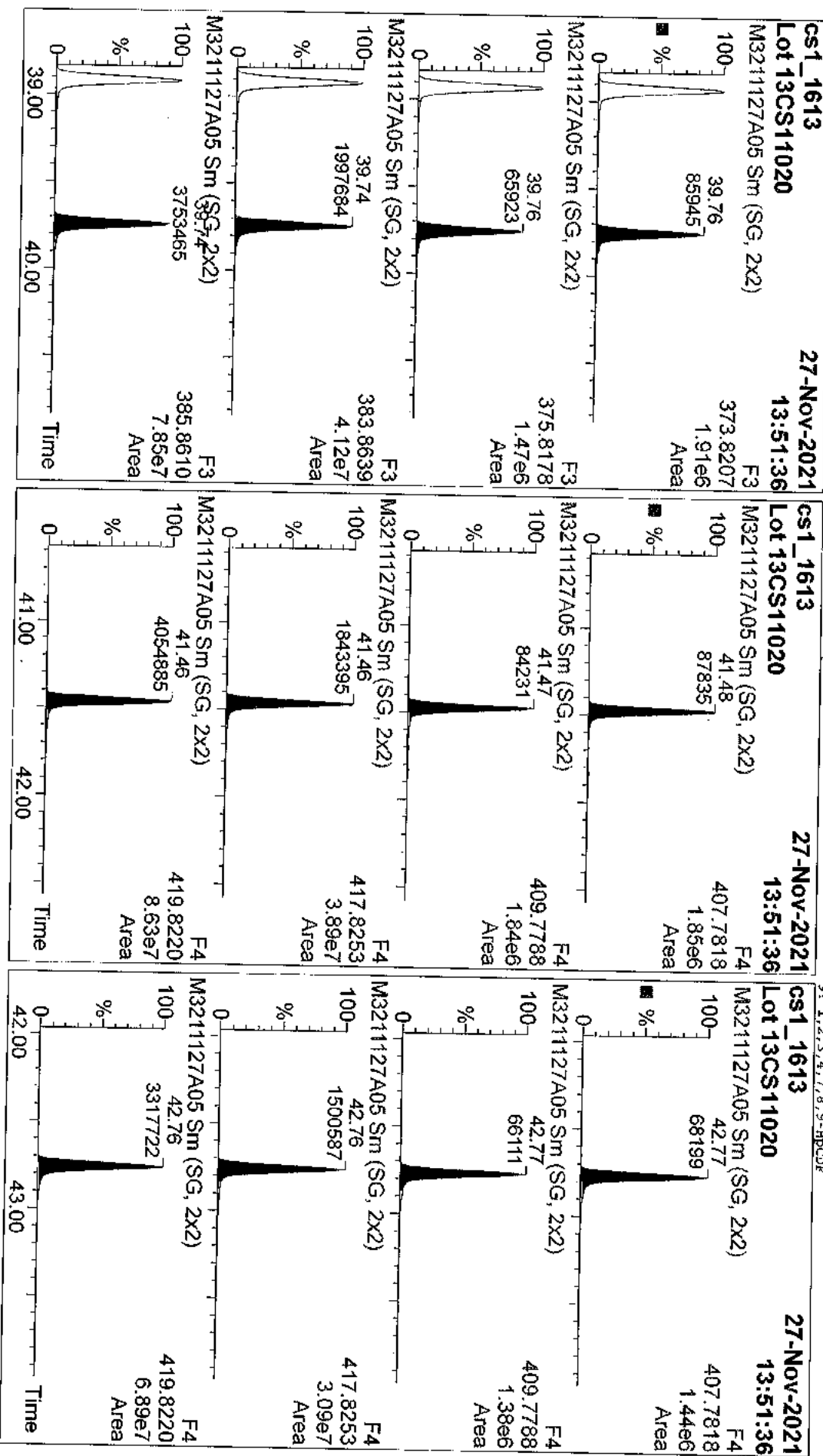
Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A05
 Text: cs1_1613

7: 1,2,3,7,8,9-HxCDF

8: 1,2,3,4,6,7,8-HxCDF

9: 1,2,3,4,7,8,9-HxCDF



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMPLDDB\M3211027A_1613.CAL
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211027A_EC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

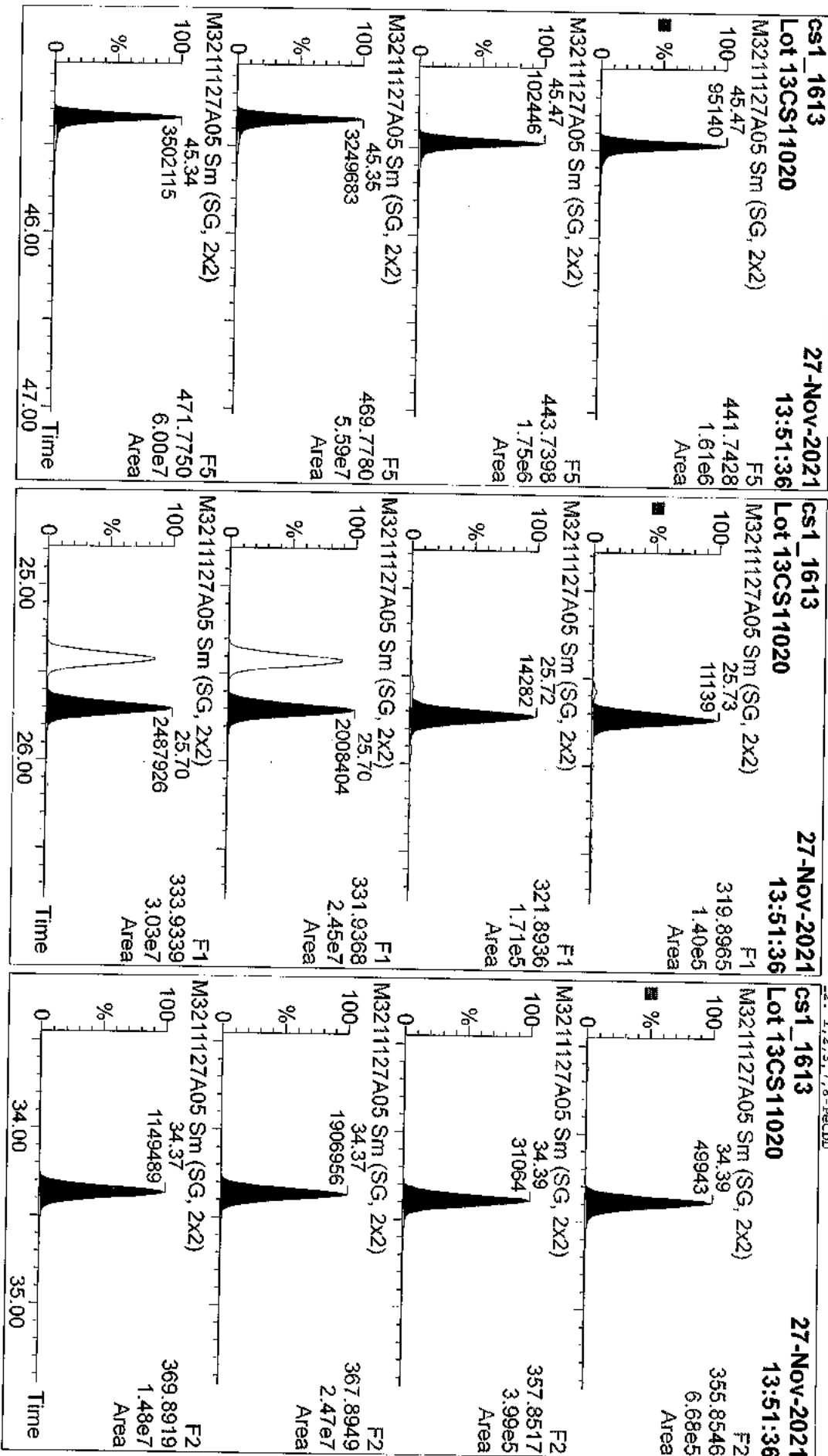
Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A05
 Text: cs1_1613

10: OGD

11: 2,3,7,8-TCDD

12: 1,2,3,7,8-PeCDD



Quantity Sample Report

Sample List: C:\MASSIVE\Default.pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSIVE\Default.pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

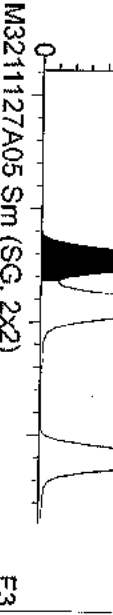
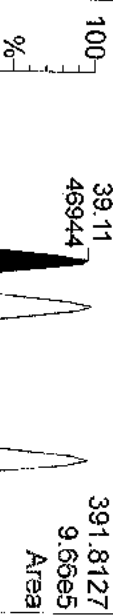
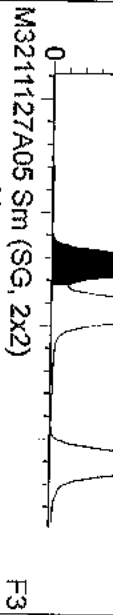
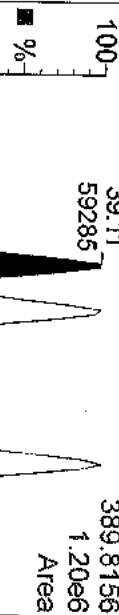
Name: M3211027A05
 Text: cs1_1613

13: 1,2,3,4,7,8-HxCDD

cs1_1613 27-Nov-2021 13:51:36

Lot 13CS11020

M3211027A05 Sm (SG, 2x2)

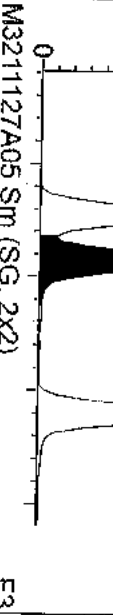
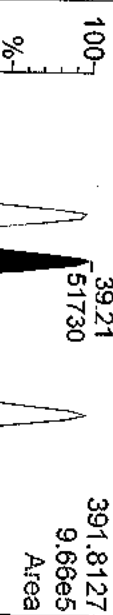
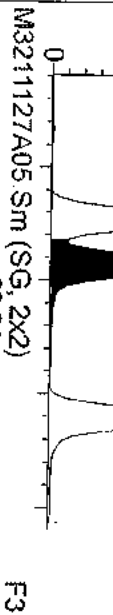
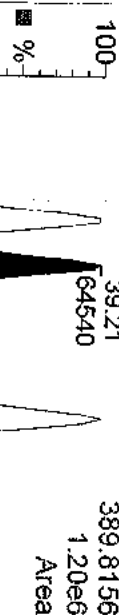


14: 1,2,3,6,7,8-HxCDD

cs1_1613 27-Nov-2021 13:51:36

Lot 13CS11020

M3211027A05 Sm (SG, 2x2)

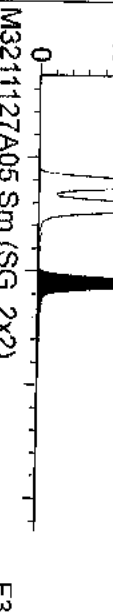
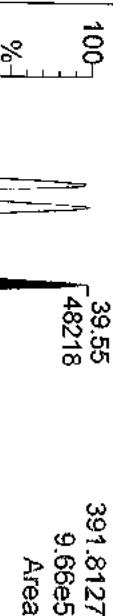
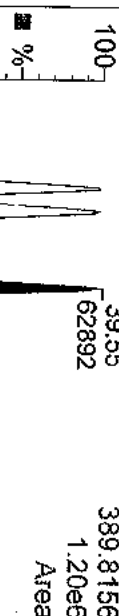


15: 1,2,3,7,8,9-HxCDD

cs1_1613 27-Nov-2021 13:51:36

Lot 13CS11020

M3211027A05 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.prp\SAMPLES\M321127A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default.prp\METHODS\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M321127A05
 Text: cs1_1613

16: 1,2,3,4,5,7,8-HPCDD

17: OCDD

33: 13C-1,2,3,4-TCDD

cs1_1613
 Lot 13CS11020
 27-Nov-2021
 13:51:36

M321127A05 Sm (SG, 2x2)



M321127A05 Sm (SG, 2x2)



M321127A05 Sm (SG, 2x2)



M321127A05 Sm (SG, 2x2)



cs1_1613
 Lot 13CS11020
 27-Nov-2021
 13:51:36

M321127A05 Sm (SG, 2x2)



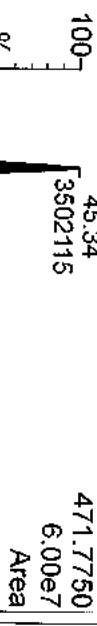
M321127A05 Sm (SG, 2x2)



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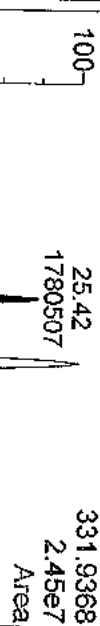


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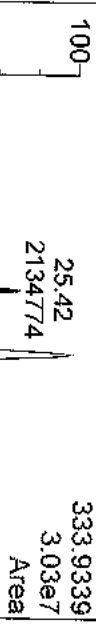


cs1_1613
 Lot 13CS11020
 27-Nov-2021
 13:51:36

M321127A05 Sm (SG, 2x2)



M321127A05 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSVIEW\Default-pro\SAMPLEDB\M3211027A_1613_CALI
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 Last modified: Mon Nov 29 13:05:57 2021
 Job Codes:
 Printed: Mon Nov 29 14:29:45 2021

Name: M3211127A05
 Text: cs1_1613

34: 13C-1,2,3,7,8,9-HxCDD

35: C137-2,3,7,8-TCDD

39: Function 1 Lockmass

cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

M3211127A05 Sm (SG, 2x2)
 39.54 2488797
 F3 401.8559 4.87e7
 Area

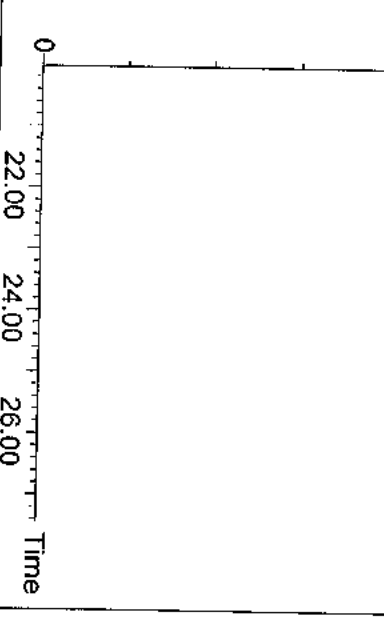
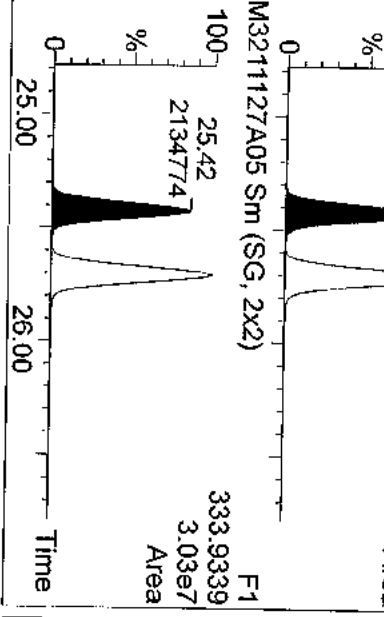
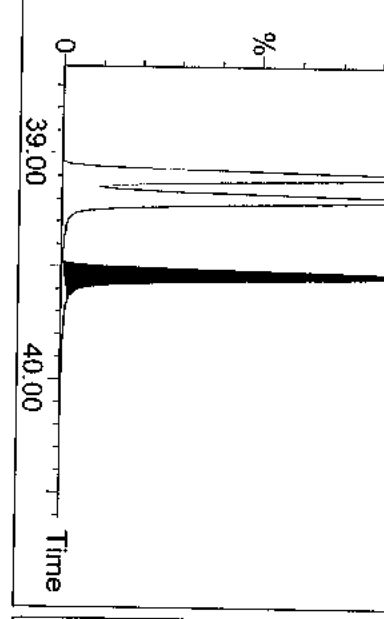
M3211127A05 Sm (SG, 2x2)
 25.72 23130
 F1 327.8850 2.82e5
 Area

M3211127A05 Sm (SG, 2x2)
 21.52 22.96 23.45 24.52 24.89 316.9824 3.28e6
 F1

M3211127A05 Sm (SG, 2x2)
 39.54 1938414
 F3 403.8530 3.79e7
 Area

M3211127A05 Sm (SG, 2x2)
 25.42 1780507
 F1 331.9368 2.45e7
 Area

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 25.42 2134774
 F1 333.9339 3.03e7
 Area



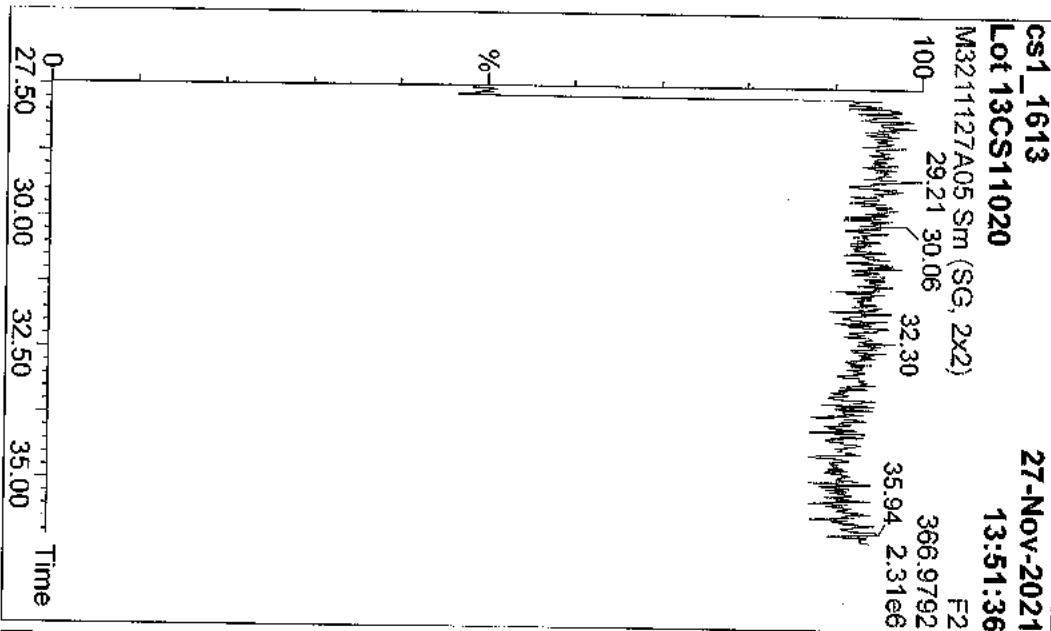
Quantify Sample Report

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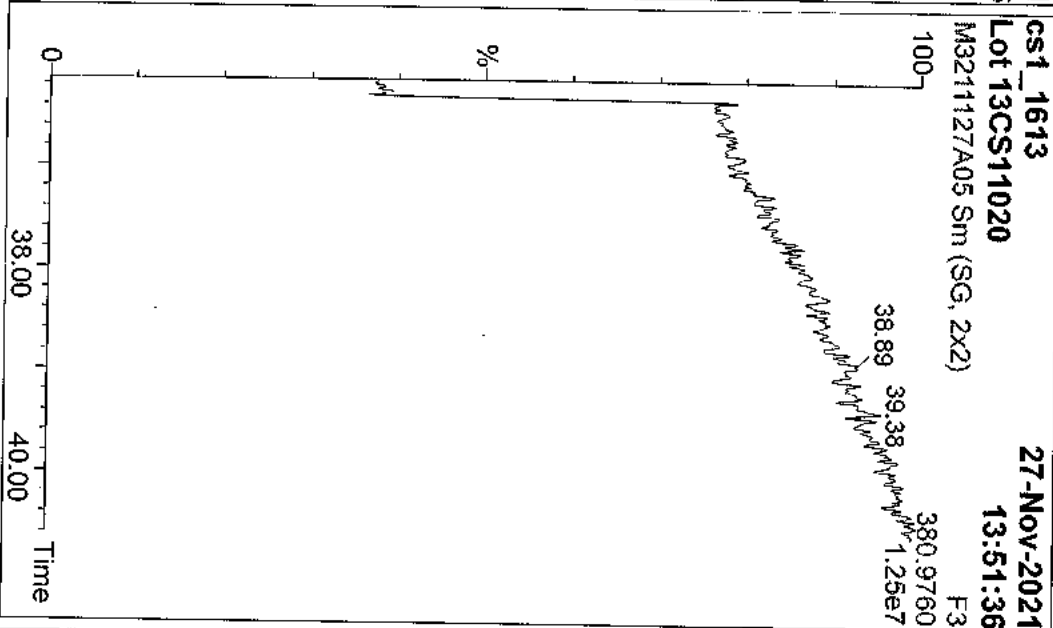
Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A05
 Text: cs1_1613

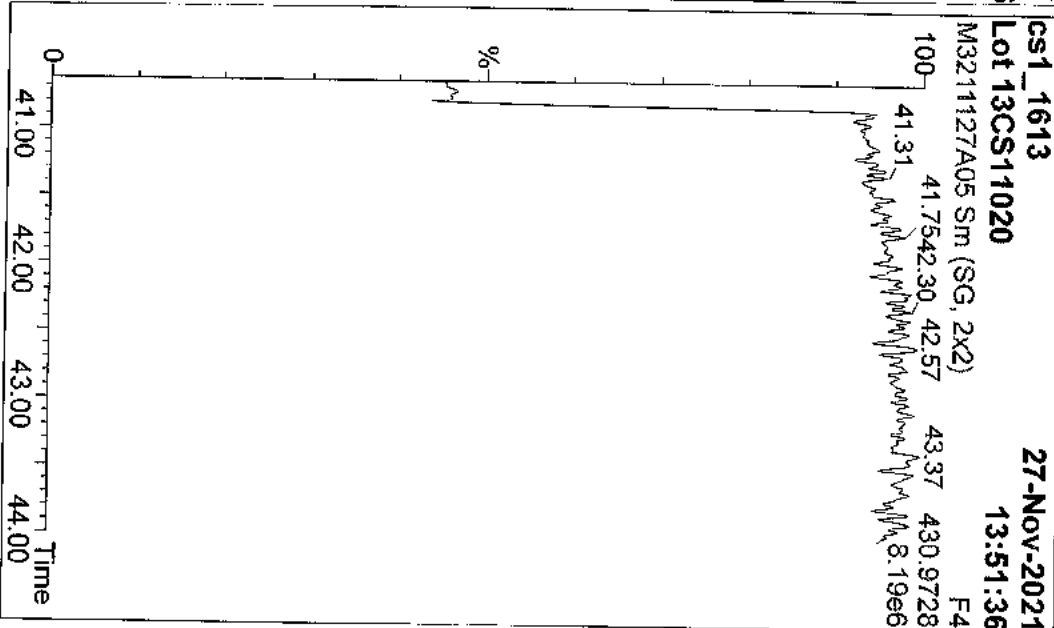
43: Function 2 Lockmass



47: Function 3 Lockmass



51: Function 4 Lockmass



Quantify Sample Report

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 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A05
 Text: cs1_1613

S3: Function 5 Lockmass

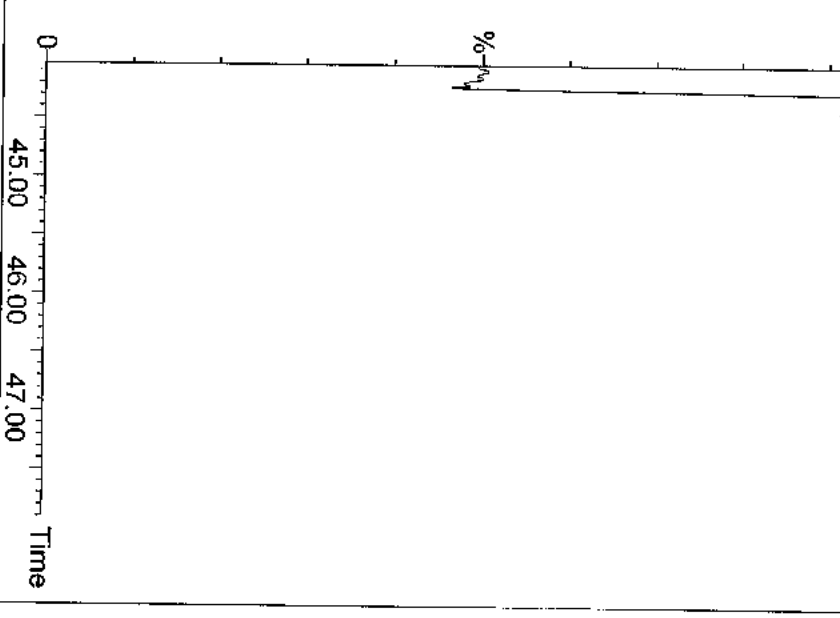
CS1_1613 27-Nov-2021

Lot 13CS11020 13:51:36

M3211027A05 Sm (SG, 2X2) F5

100 44.46 45.49 45.69 46.28 47.19 47.73 454.9728

44.46 45.49 45.69 46.28 47.19 47.73 454.9728 5.11e6



Quantify Sample Summary Report

Sample list: C:\MASSL\X\Default.pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSL\X\Default.pro\METHOD\EPA 1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 14:29:05 2021

Sample Name: M3211127A06 Sample ID: Lot 13CS21020

# Name	RT	Area	Sec Area	Abs Resp	Ion Ratio	RFIag	Response	Flags	Pg	%Dev	%Rec	IS#	RRF
1 2,3,7,8-TCDF	24.670	62410	80857	143268	0.77	YES	1.869	bb	1.923	-4	96	18	0.934
2 1,2,3,7,8-PeCDF	32.034	307426	192224	499650	1.60	YES	9.563	bb	9.763	-2	96	19	0.936
3 2,3,4,7,8-PeCDF	33.674	329838	207632	537470	1.59	YES	10.755	bb	9.869	-1	99	20	1.075
4 1,2,3,4,7,8-HxCDF	38.138	300762	244218	544980	1.23	YES	11.353	bd	9.791	-2	98	21	1.135
5 1,2,3,6,7,8-HxCDF	38.272	312733	249053	561785	1.26	YES	11.021	db	10.068	1	101	22	1.102
6 2,3,4,6,7,8-HxCDF	38.932	320759	252029	572789	1.27	YES	11.885	bb	10.101	1	101	23	1.168
7 1,2,3,7,8,9-HxCDF	39.758	272120	216722	488842	1.26	YES	11.011	bb	10.034	0	100	24	1.101
8 1,2,3,4,6,7,8-HpCDF	41.478	281392	270941	552333	1.04	YES	12.137	bb	10.045	0	100	25	1.214
9 1,2,3,4,7,8,9-HpCDF	42.767	228812	221858	450670	1.03	YES	11.347	bb	9.640	-4	96	26	1.135
10 OCDF	45.475	317820	353460	671281	0.90	YES	23.873	bb	19.254	-4	96	32	1.135
11 2,3,7,8-TCDD	25.735	44255	52741	96996	0.84	YES	2.226	bb	1.794	-10	90	27	1.113
12 1,2,3,7,8-PeCDD	34.396	178778	110407	289185	1.62	YES	10.810	bb	9.684	-3	97	28	1.081
13 1,2,3,4,7,8-HxCDD	39.118	200828	153898	354726	1.30	YES	10.908	bd	9.815	-2	98	29	1.091
14 1,2,3,6,7,8-HxCDD	39.121	202668	162499	371167	1.28	YES	11.120	db	9.932	-1	99	30	1.112
15 1,2,3,7,8,9-HxCDD	39.551	202310	165485	367794	1.22	YES	11.019	bb	10.077	1	101	30	1.102
16 1,2,3,4,6,7,8-HpCDD	42.416	185129	179127	364256	1.03	YES	10.756	bb	9.916	-1	99	31	1.076
17 OCDD	45.358	281165	297519	578684	0.94	YES	20.580	bb	19.516	-2	98	32	1.029
18 13C-2,3,7,8-TCDF	24.648	3375082	4291362	7666424	0.79	YES	209.451	bb	97.665	-2	98	33	2.095
19 13C-1,2,3,7,8-PeCDF	32.003	3219214	2005876	5225090	1.61	YES	142.752	bd	90.500	-10	90	33	1.428
20 13C-2,3,4,7,8-PeCDF	33.653	3080955	1915117	4997472	1.61	YES	136.534	bb	88.985	-11	89	33	1.365
21 13C-1,2,3,4,7,8-HxCDF	38.117	1643843	3156614	4800457	0.52	YES	135.373	bd	101.547	0	100	34	1.354
22 13C-2,3,6,7,8-HxCDF	38.251	1697544	3399724	5097268	0.50	YES	125.201	bb	101.547	2	102	34	1.337
23 13C-1,2,3,4,6,7,8-HxCDF	39.922	1675008	3144445	4819452	0.53	YES	143.743	bb	100.078	0	100	34	1.252
24 13C-1,2,3,7,8,9-HxCDF	39.747	1528756	2910975	4439731	0.52	YES	135.909	bb	105.342	5	105	34	1.283
25 13C-1,2,3,4,6,7,8-HpCDF	41.467	1414716	2135936	4550651	0.45	YES	128.329	bb	101.337	1	101	34	1.191
26 13C-1,2,3,4,7,8,9-HpCDF	42.757	1184144	2787685	3971829	0.81	YES	119.053	bb	102.717	3	103	33	1.120
27 13C-2,3,7,8-TCDD	25.712	1954302	2403333	4357635	1.63	YES	73.085	bb	88.961	-11	89	33	0.917
28 13C-1,2,3,7,8-PeCDD	34.375	1658700	1016401	2675101	1.31	YES	91.703	bd	100.680	1	101	34	0.941
29 13C-1,2,3,4,7,8-HxCDD	39.108	1845483	1406372	3251856	1.29	YES	94.129	bb	98.900	-1	99	34	0.955
30 13C-1,2,3,6,7,8-HxCDD	39.211	1878848	1459036	3337884	1.07	YES	95.500	bb	101.430	5	105	34	0.793
31 13C-1,2,3,4,6,7,8-HpCDD	42.406	1748630	1637895	3386524	0.92	YES	158.594	bb	210.173	-21	79	0	3.6602
32 13C-OCDD	45.347	2686797	2937065	5623862	0.82	YES	3660247.875	bb	78.966	-33	67	0	8.57
33 13C-1,2,3,4-TCDD	25.427	1654053	2006195	3660248	1.27	YES	3546085.750	bb	66.707	-10	90	33	2.254
34 13C-1,2,3,7,8-HxCDD	39.541	1986693	1559392	3546086	1.00	YES	4.507	bb	1.790	-18	18	27	1.794
35 C137-2,3,7,8-TCDD	25.735	82486	82486	164973	-	-	-	-	1.940	-	-	0	19.742
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	9.684	-	-	0	39.995
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	29.823	-	-	0	19.809
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	10.066	-	-	0	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	31	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	-	-	-	-	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	-	-	-	-	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	-

5 Pts.

Quantify Sample Report

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 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

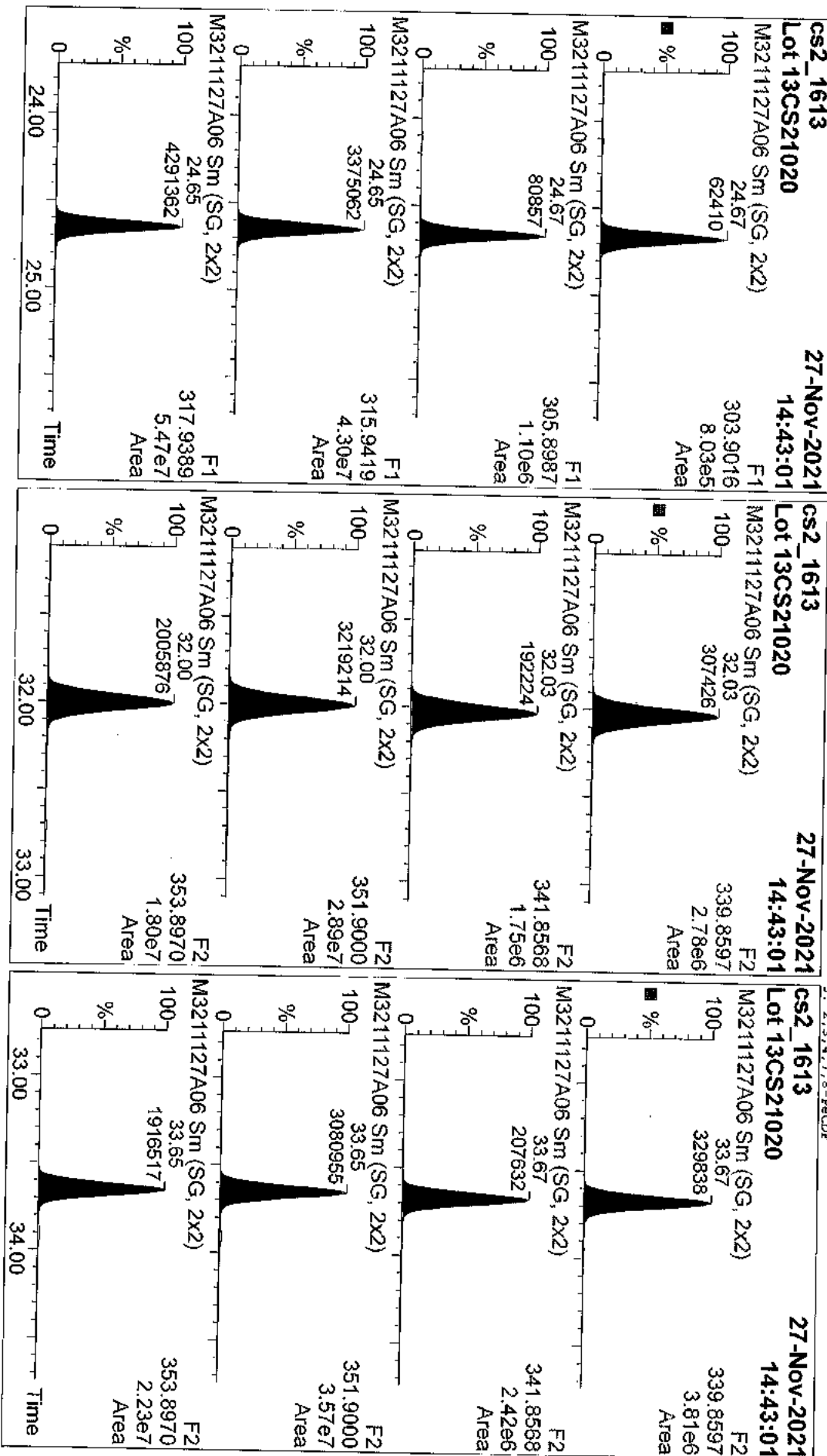
Printed: Mon Nov 29 14:29:45 2021

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 Text: cs2_1613

1: 2,3,7,8-PCDF

2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211027A_1613_CALI
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 Job Code:
 Printed: Mon Nov 29 14:29:45 2021

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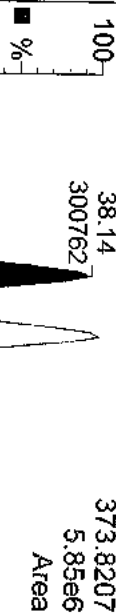
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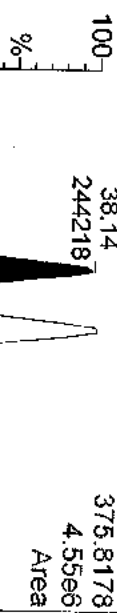
6: 2,3,4,6,7,8-HxCDF

cs2_1613
 Lot 13CS21020
 27-Nov-2021
 14:43:01

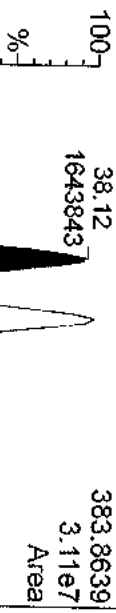
M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)

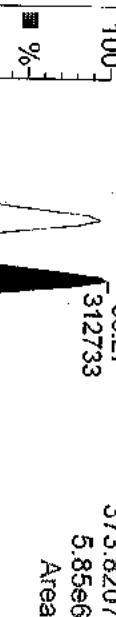


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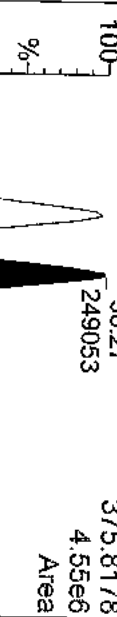


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 27-Nov-2021
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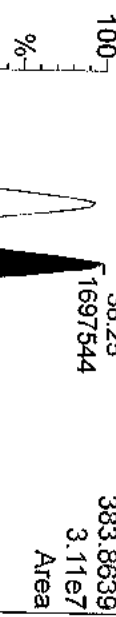
M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)



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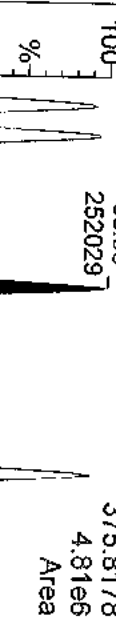


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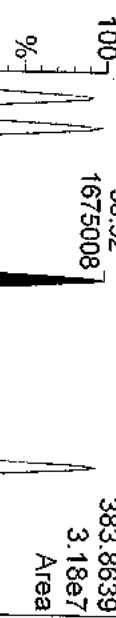
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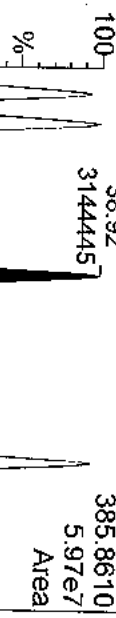
M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)



Quantity Sample Report

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 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:
 Printed: Mon Nov 29 14:29:45 2021

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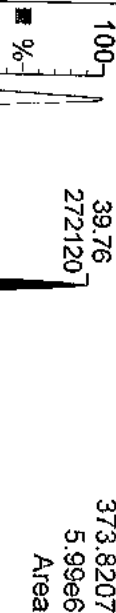
7: 1,2,3,7,8,9-HxCDF

8: 1,2,3,4,6,7,8-HxCDF

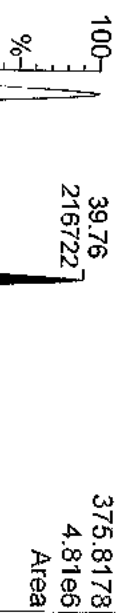
9: 1,2,3,4,7,8,9-HxCDF

cs2_1613
 Lot 13CS21020
 27-Nov-2021
 14:43:01

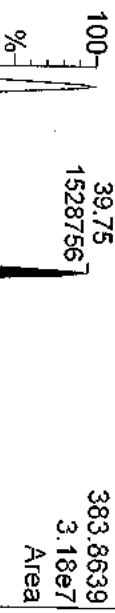
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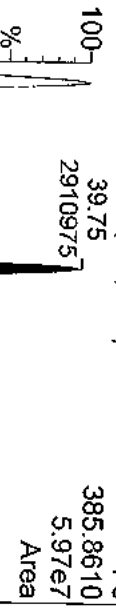
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M3211127A06 Sm (SG, 2x2)

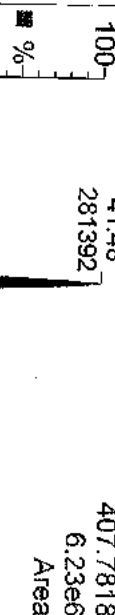


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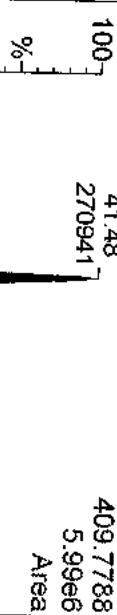


cs2_1613
 Lot 13CS21020
 27-Nov-2021
 14:43:01

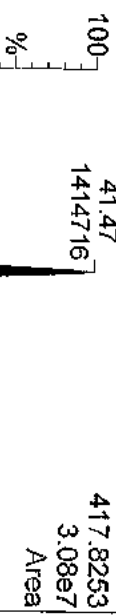
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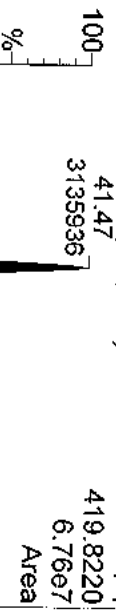
M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)

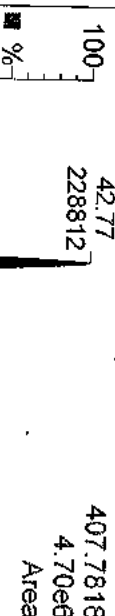


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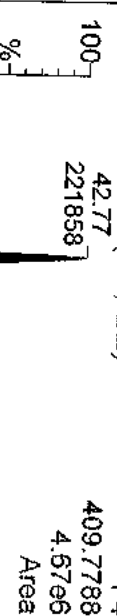


cs2_1613
 Lot 13CS21020
 27-Nov-2021
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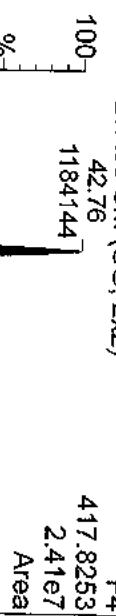
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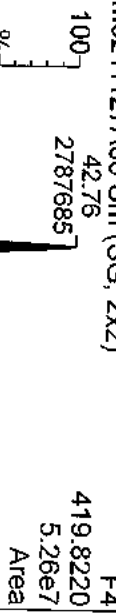
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M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)



Quantify Sample Report

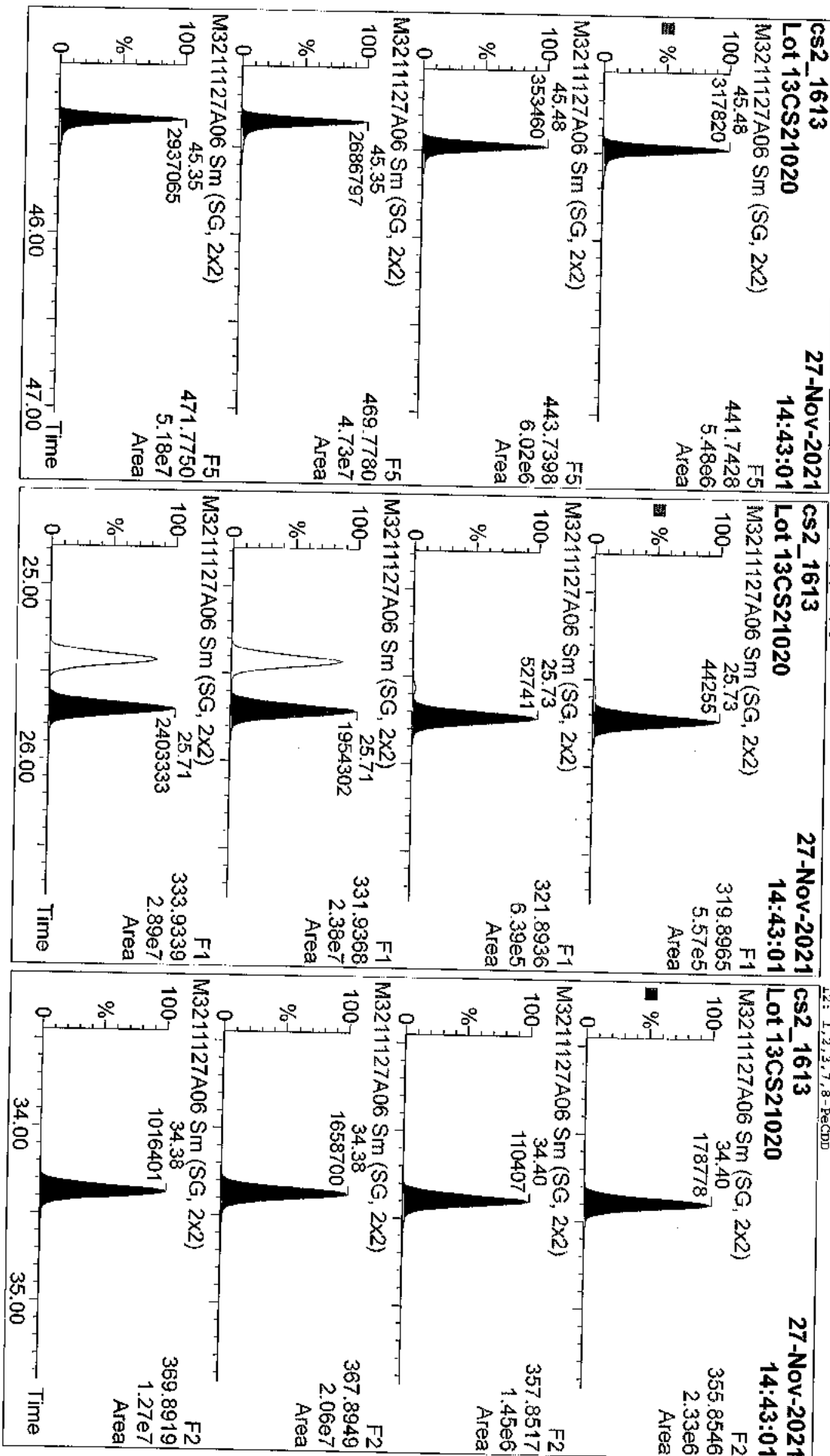
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 Job Code:
 Printed: Mon Nov 29 14:29:45 2021

Name: M3211127A06
 Text: ca2_1613

10: OCPD

11: 2,3,7,8-TCDD

12: 1,2,3,7,8-PeCDD



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M3211127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M321127A06
 Text: cs2_1613

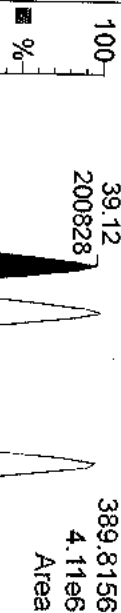
13: 1,2,3,4,7,8-HxCDD

14: 1,2,3,6,7,8-HxCDD

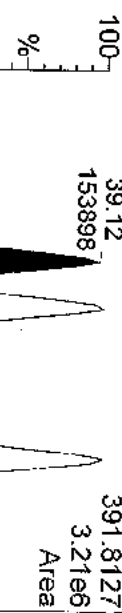
15: 1,2,3,7,8,9-HxCDD

cs2_1613
 Lot 13CS21020
 27-Nov-2021
 14:43:01

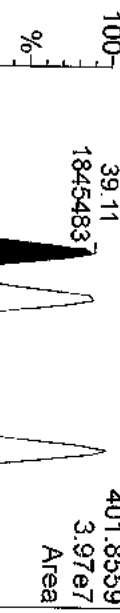
M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)

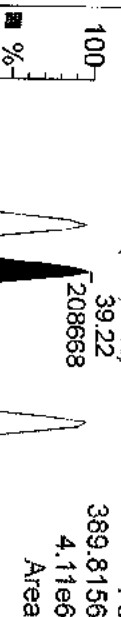


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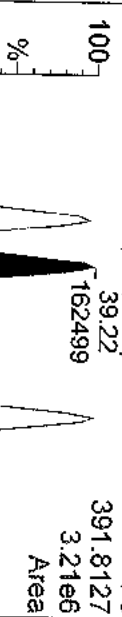


cs2_1613
 Lot 13CS21020
 27-Nov-2021
 14:43:01

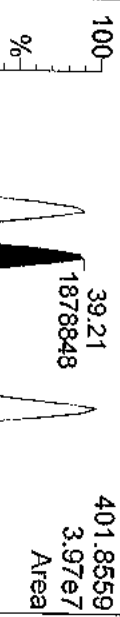
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M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)

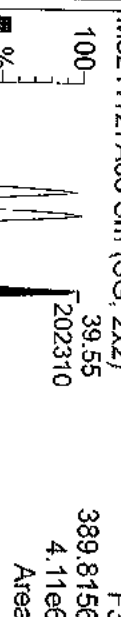


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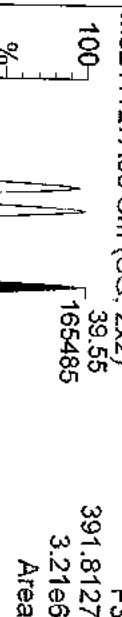


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 Lot 13CS21020
 27-Nov-2021
 14:43:01

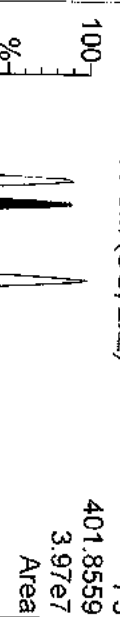
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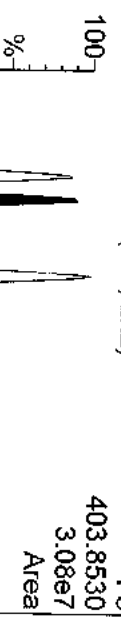
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M3211127A06 Sm (SG, 2x2)



M3211127A06 Sm (SG, 2x2)



Quantify Sample Report

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 Method: C:\MASSLTX\Default.pro\METHOD\M3211027A_HC_stdcs_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A06
 Text: cs2_1613

16: 1,2,3,4,6,7,8-HCDD

17: OCDD

33: 1,3-C-1,2,3,4-TCDD

cs2_1613
 Lot 13CS21020
 27-Nov-2021
 14:43:01

M3211027A06 Sm (SG, 2x2)



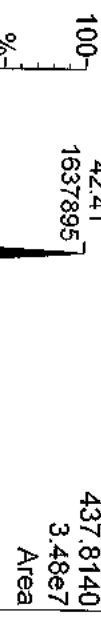
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M3211027A06 Sm (SG, 2x2)



M3211027A06 Sm (SG, 2x2)



cs2_1613
 Lot 13CS21020
 27-Nov-2021
 14:43:01

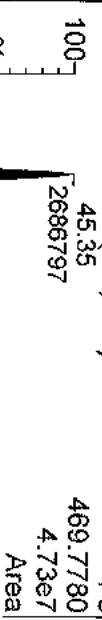
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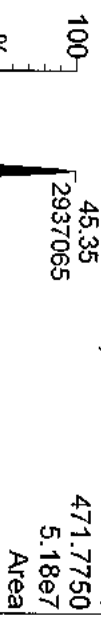
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M3211027A06 Sm (SG, 2x2)

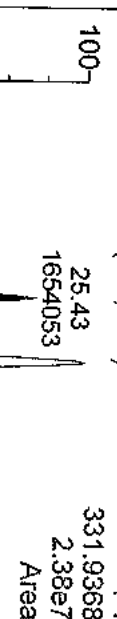


M3211027A06 Sm (SG, 2x2)

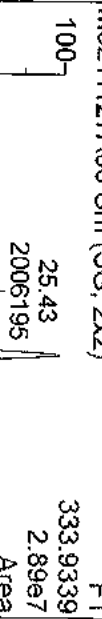


cs2_1613
 Lot 13CS21020
 27-Nov-2021
 14:43:01

M3211027A06 Sm (SG, 2x2)



M3211027A06 Sm (SG, 2x2)



Quantity Sample Report

Sample list: C:\MSDCHEM\Default.pro\SMFLEDB\M3211027A_1613_CALI
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 Method: C:\MSDCHEM\Default.pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A06
 Text: cs2_1613

34: 13C-1,2,3,7,8,9-HXCD

35: C137-2,3,7,8-TCDD

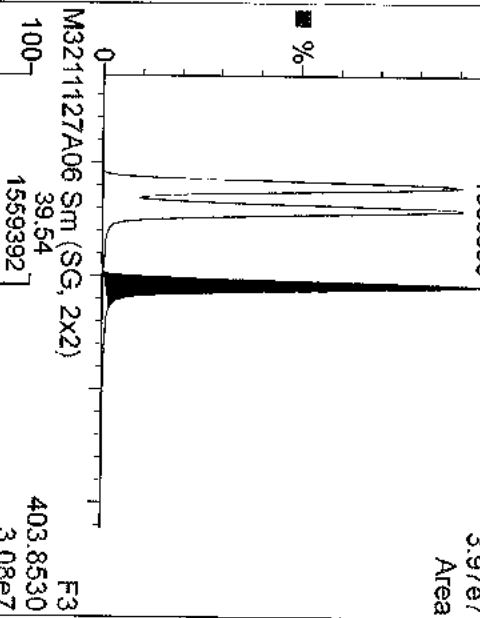
39: Function 1 Lockmass

cs2_1613 27-Nov-2021 14:43:01

Lot 13CS21020

M3211027A06 Sm (SG, 2x2)

39.54 401.8559 F3
 1986693 3.97e7 Area

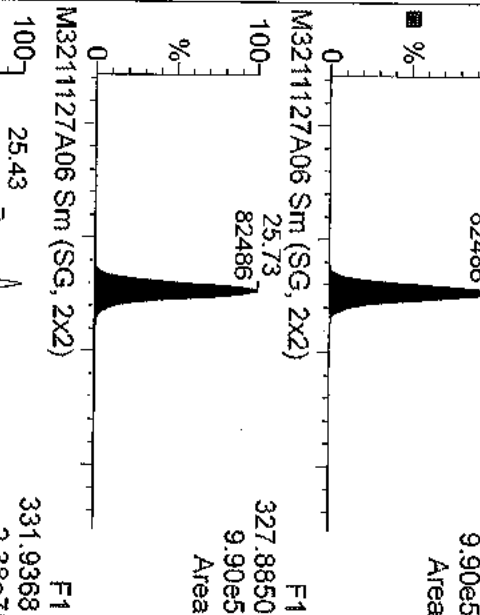


cs2_1613 27-Nov-2021 14:43:01

Lot 13CS21020

M3211027A06 Sm (SG, 2x2)

25.73 327.8850 F1
 82486 9.90e5 Area

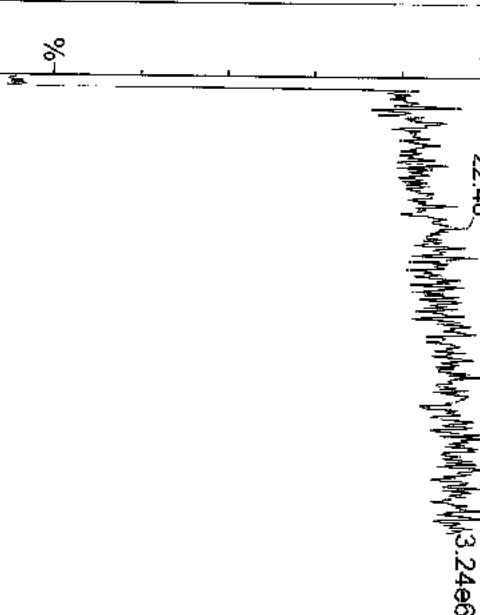


cs2_1613 27-Nov-2021 14:43:01

Lot 13CS21020

M3211027A06 Sm (SG, 2x2)

22.46 25.89 27.06 316.9824 F1
 22.95 25.89 27.06 316.9824 3.24e6

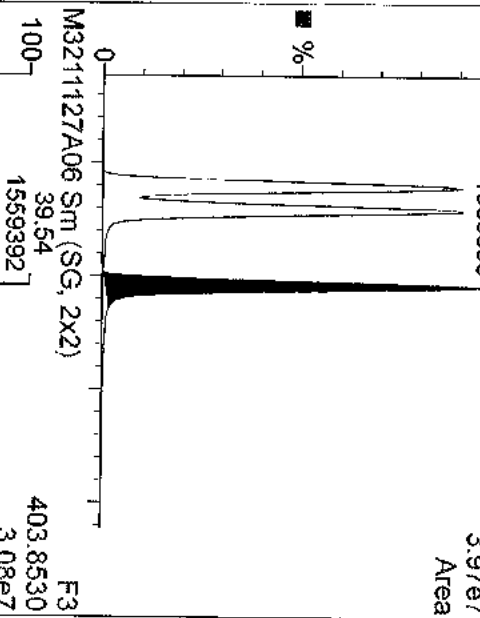


cs2_1613 27-Nov-2021 14:43:01

Lot 13CS21020

M3211027A06 Sm (SG, 2x2)

39.54 403.8530 F3
 1559392 3.08e7 Area

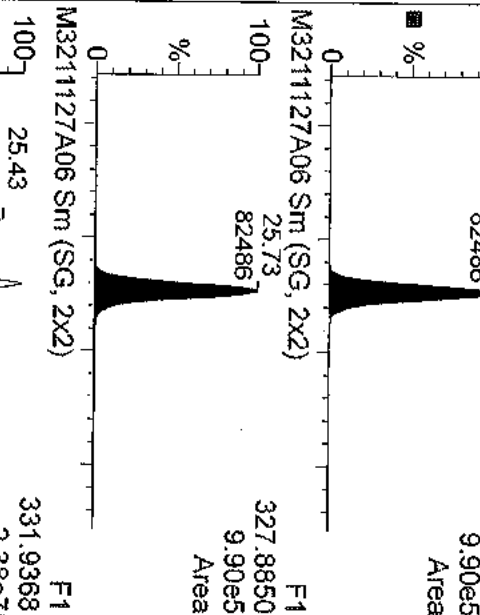


cs2_1613 27-Nov-2021 14:43:01

Lot 13CS21020

M3211027A06 Sm (SG, 2x2)

25.43 331.9368 F1
 1654053 2.38e7 Area

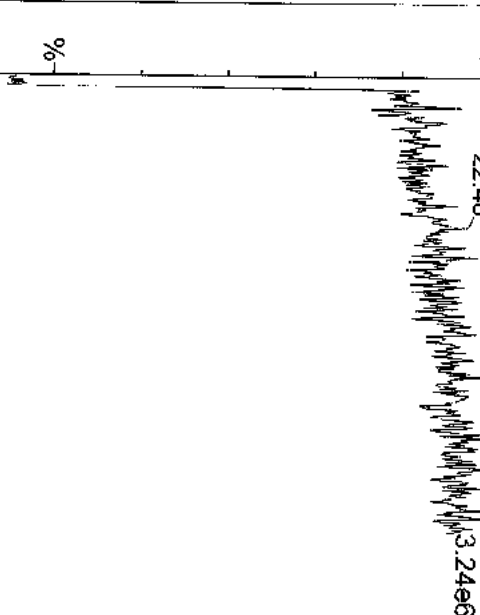


cs2_1613 27-Nov-2021 14:43:01

Lot 13CS21020

M3211027A06 Sm (SG, 2x2)

25.43 333.9339 F1
 2006195 2.89e7 Area



Quantify Sample Report

Sample list: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Test modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

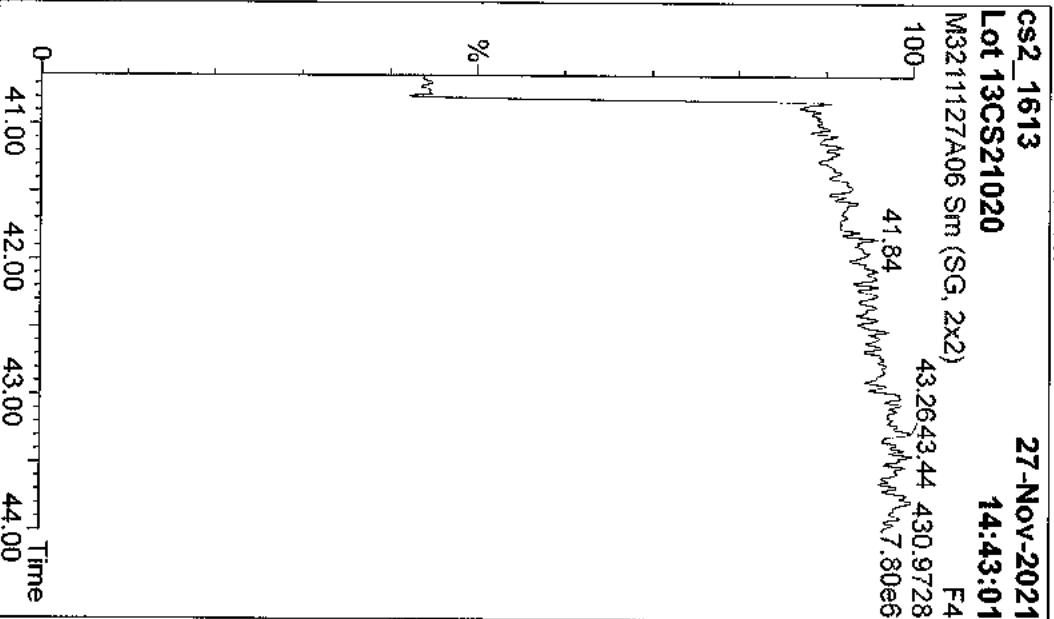
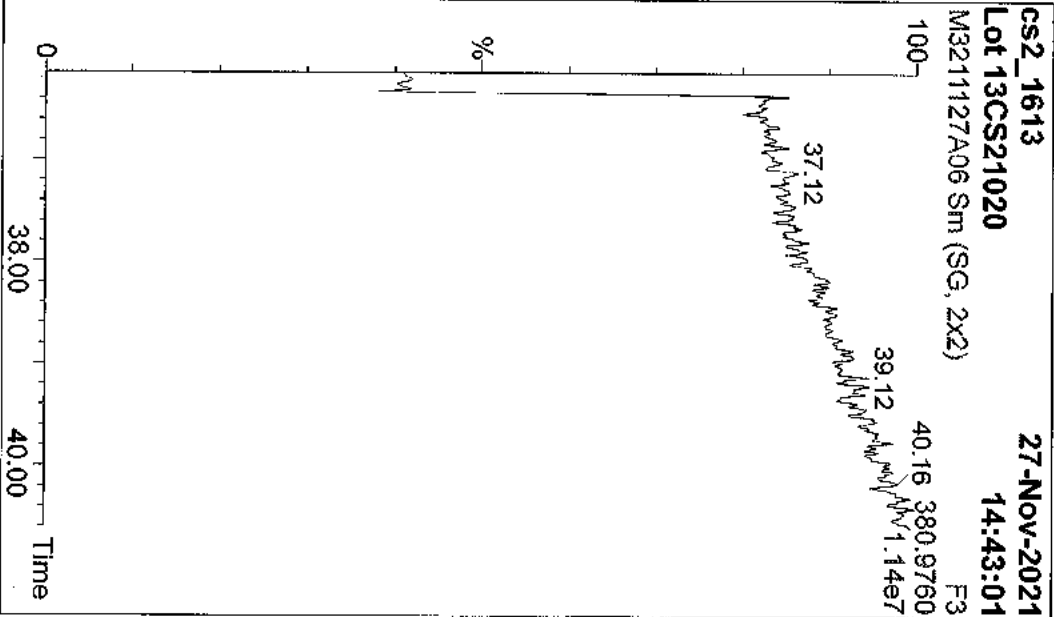
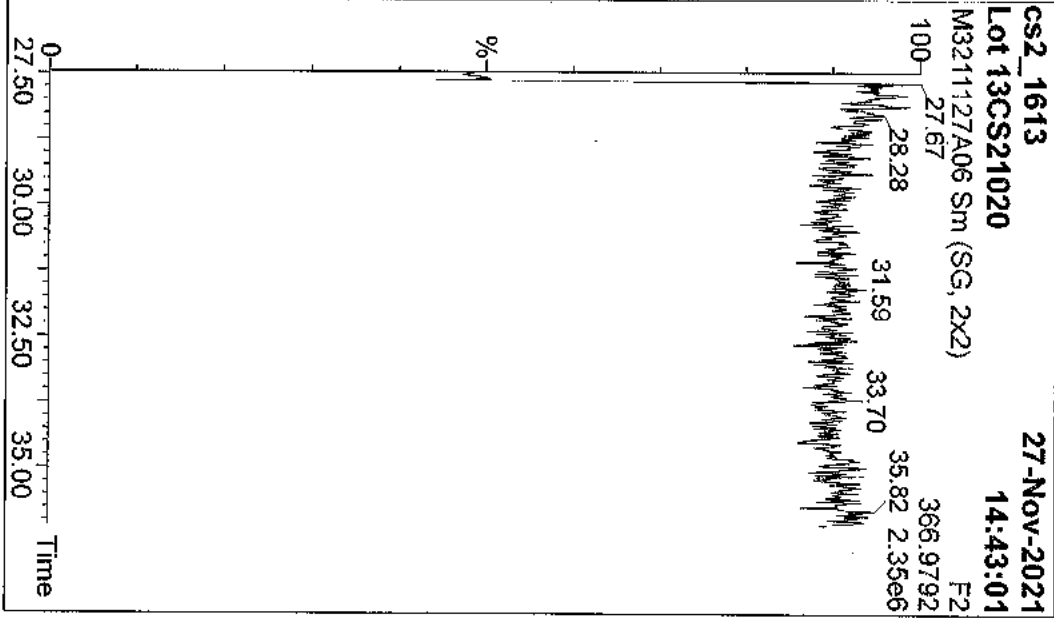
Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A06
 Text: cs2_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass



Quantify Sample Report

Sample List: C:\MSSTYRK\Default-pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSSTYRK\Default-pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

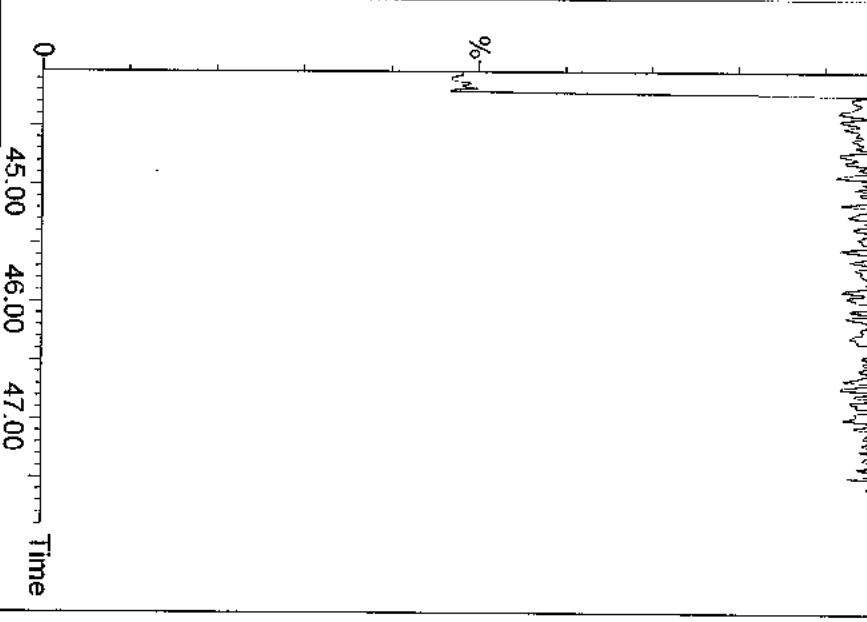
Printed: Mon Nov 29 14:29:45 2021

Name: M321127A06
 Text: cs2_1613

S3: Function 5 Lockmass

cs2_1613 27-Nov-2021
 Lot 13CS21020 14:43:01
 M321127A06 Sm (SG, 2x2) F5

100 44.70 44.96 45.52 46.40 47.53 454.9728 5.11e6



Quantify Sample Summary Report

Sample List: C:\MASSLTX\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLTX\Default-pro\METHOD\1613B_M3211027A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 14:29:05 2021

Sample Name: M3211027A07 Sample ID: Lot 13CS31019

#	Name	RT	Area	Sec Area	Abs Resp	Ion Ratio	RFlag	Response	Flags	Pg	%Dev	%Rec	IS#	RRF
1	2,3,7,8-TCDF	24.659	427000	556518	983518	0.77	YES	10.056	bb	10.349	3	103	18	1.006
2	1,2,3,7,8-PeCDF	32.023	2126832	1357422	3484254	1.57	YES	50.176	bb	51.028	2	102	19	1.004
3	2,3,4,7,8-PeCDF	33.664	2286291	1459256	3745547	1.57	YES	55.850	bb	51.250	3	103	20	1.111
4	1,2,3,4,7,8-HxCDF	38.127	2118677	1709370	3828047	1.24	YES	59.912	bb	51.671	3	103	21	1.198
5	1,2,3,6,7,8-HxCDF	38.262	2181694	1734922	3916616	1.26	YES	56.651	bb	51.753	4	104	22	1.133
6	2,3,4,6,7,8-HxCDF	38.922	2186309	1752452	3938761	1.25	YES	60.161	bb	51.132	2	102	23	1.203
7	1,2,3,7,8,9-HxCDF	39.747	1932011	1545656	3477666	1.03	YES	62.873	bb	51.258	3	103	24	1.125
8	1,2,3,4,6,7,8-HpCDF	41.467	2000640	1942057	3942697	1.03	YES	60.232	bb	52.032	4	104	25	1.257
9	1,2,3,4,7,8,9-HpCDF	42.757	1586065	1541312	3127376	1.03	YES	60.232	bb	51.174	2	102	26	1.205
10	OCDF	45.465	2187399	2423800	6521178	0.90	YES	131.732	bb	106.244	6	106	32	1.317
11	2,3,7,8-TCDD	25.723	288788	363390	2015521	1.60	YES	12.940	db	10.428	4	104	27	1.294
12	1,2,3,7,8-PeCDD	34.386	1239411	776110	2508764	1.60	YES	56.976	db	51.042	2	102	28	1.140
13	1,2,3,4,7,8-HxCDD	39.107	1405733	1103032	2621926	1.27	YES	56.764	db	51.072	2	102	29	1.135
14	2,3,6,7,8-HxCDD	39.211	1473316	1148610	2621926	1.28	YES	57.415	db	51.458	3	103	30	1.148
15	1,2,3,7,8,9-HxCDD	39.541	1426257	1137584	2563841	1.25	YES	56.143	db	51.344	3	103	30	1.148
16	1,2,3,4,6,7,8-HpCDD	42.406	1294486	1239530	2534016	1.04	YES	55.040	db	50.739	3	103	31	1.101
17	OCDD	45.358	1903570	2013796	3917365	1.04	YES	111.911	db	106.125	1	101	31	1.101
18	13C-2,3,7,8-TCDF	24.637	4334179	5446715	9780894	0.94	YES	111.911	db	106.125	6	106	32	1.119
19	13C-1,2,3,7,8-PeCDF	31.992	4272350	2671723	6944073	1.60	YES	216.059	db	100.746	1	101	33	2.161
20	13C-2,3,4,7,8-PeCDF	33.643	4110746	2595677	6706423	1.58	YES	153.394	db	97.246	-3	97	33	1.534
21	13C-1,2,3,4,7,8-HxCDF	38.107	2205713	4183770	6389482	1.58	YES	148.144	db	96.552	-3	97	33	1.534
22	13C-1,2,3,6,7,8-HxCDF	38.211	2205713	4183770	6389482	1.58	YES	148.144	db	99.251	-1	99	34	1.333
23	13C-2,3,4,6,7,8-HxCDF	38.921	2205713	4183770	6389482	1.58	YES	148.144	db	99.735	-1	99	34	1.333
24	13C-1,2,3,7,8,9-HxCDF	39.737	2163372	4281844	6547081	0.53	YES	132.280	db	101.273	1	101	34	1.431
25	13C-1,2,3,4,6,7,8-HpCDF	41.457	1958435	4066602	6182975	0.53	YES	132.280	db	102.319	2	102	34	1.355
26	13C-1,2,3,4,7,8,9-HpCDF	42.746	1604070	3588117	6270867	0.52	YES	128.004	db	102.517	2	102	34	1.355
27	13C-2,3,7,8-TCDD	25.701	2217259	2822673	5192187	0.45	YES	129.824	bb	101.096	1	101	34	1.075
28	13C-1,2,3,7,8-PeCDD	34.355	2192618	1344847	5039933	1.63	YES	111.332	bb	96.055	-4	96	33	1.113
29	13C-1,2,3,4,7,8-PeCDD	39.097	2505998	1913648	3537465	1.31	YES	78.142	bb	99.117	-5	95	33	0.781
30	13C-1,2,3,6,7,8-HxCDD	39.200	2587328	1979299	4419646	1.07	YES	91.459	db	100.456	0	100	34	0.915
31	13C-1,2,3,4,6,7,8-HpCDD	42.396	2378392	2225588	4566627	1.31	YES	94.542	db	99.334	-1	99	34	0.945
32	13C-OCDD	45.347	3635458	2454381	7000984	0.93	YES	95.315	bb	101.233	1	101	34	0.953
33	13C-1,2,3,4-TCDD	25.416	2072577	2118061	4526958	0.84	YES	144.937	bb	192.076	-4	96	34	0.725
34	13C-1,2,3,7,8,9-HxCDD	39.530	2712227	2118061	4830288	1.28	YES	4526958.375	bb	97.664	0	45269	34	0.725
35	C137-2,3,7,8-TCDD	25.723	581867	581867	1163734	1.00	YES	4830287.750	bb	90.864	-2	98	0	48302
36	Totals Tetra-Furans	-	0	0	0	-	-	25.707	bb	10.210	2	102	33	2.571
37	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	10.534	-	18	-	-
38	Totals Penta-Furans	-	0	0	0	-	-	-	-	10.609	-	27	-	-
39	Totals Penta-Dioxins	-	0	0	0	-	-	-	-	103.419	-	0	-	-
40	Totals Hexa-Furans	-	0	0	0	-	-	-	-	51.164	-	28	-	-
41	Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	206.083	-	0	-	-
42	Totals Hepta-Furans	-	0	0	0	-	-	-	-	153.880	-	30	-	-
43	Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	103.740	-	0	-	-
44	Totals Octa-Furans	-	0	0	0	-	-	-	-	51.402	-	31	-	-

5P45.

Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

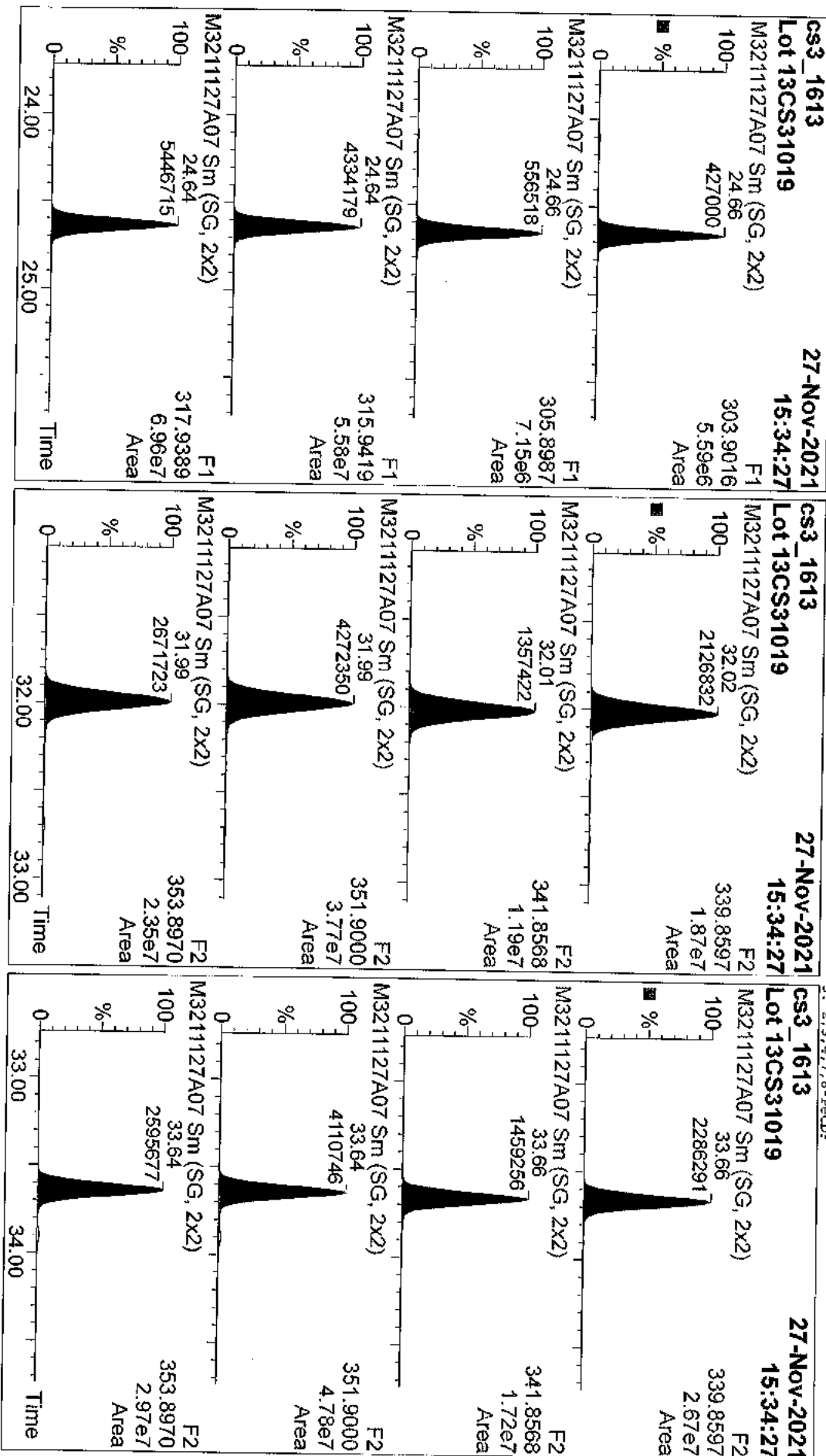
Printed: Mon Nov 29 14:29:45 2021

Name: M321127A07
 Text: cs3_1613

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2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF



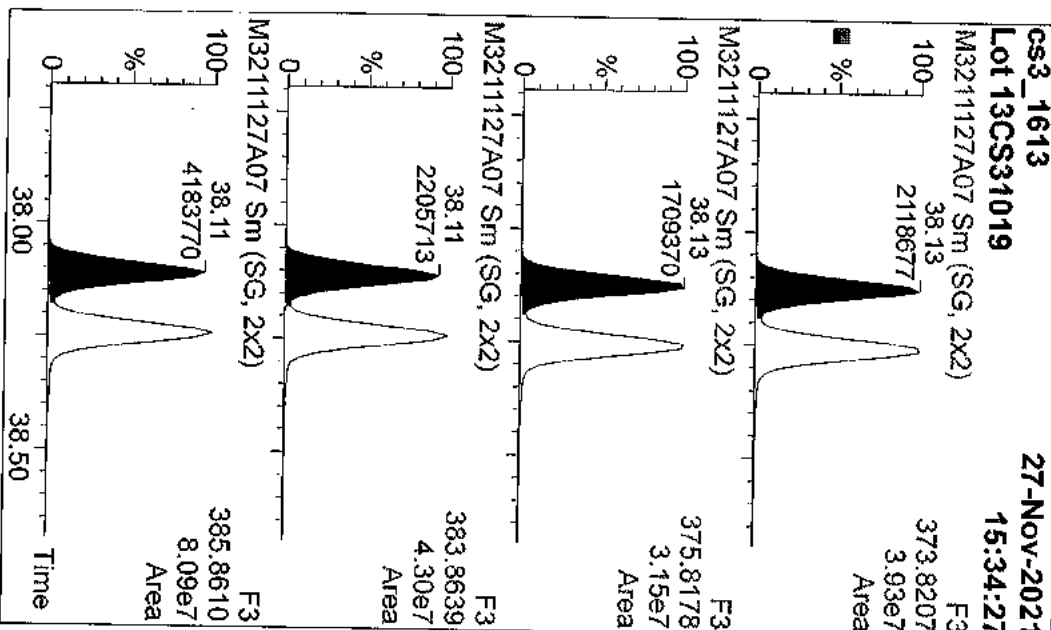
Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLES\M321127A_1613_CALI
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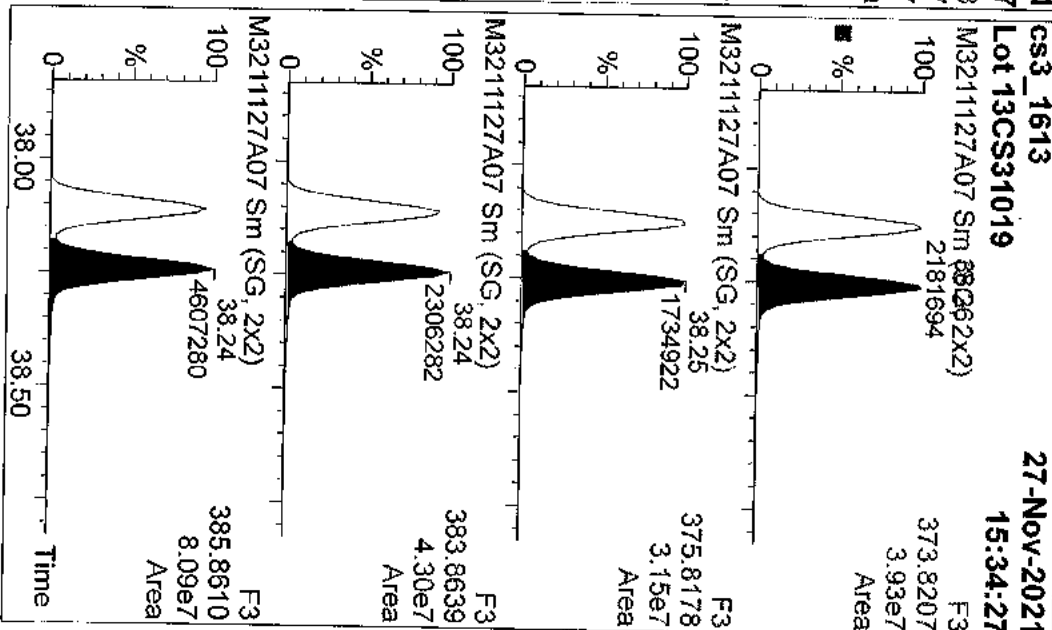
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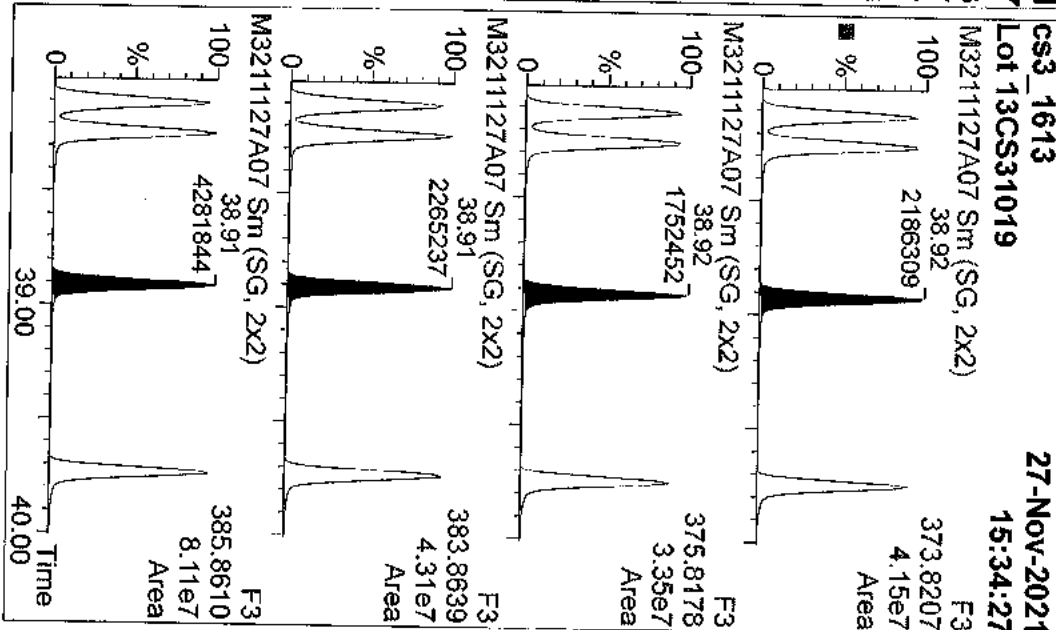
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5: 1,2,3,6,7,8-HxCDF



6: 2,3,4,6,7,8-HxCDF



Quantify Sample Report

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 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A07
 Text: cs3_1613

7: 1,2,3,7,8,9-HCDDF

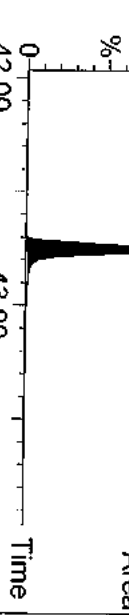
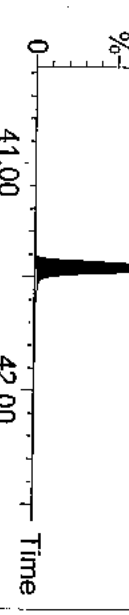
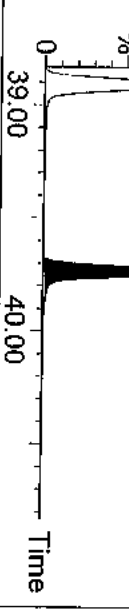
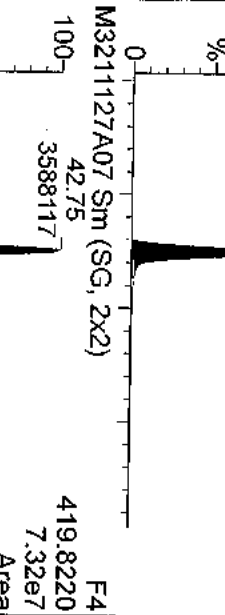
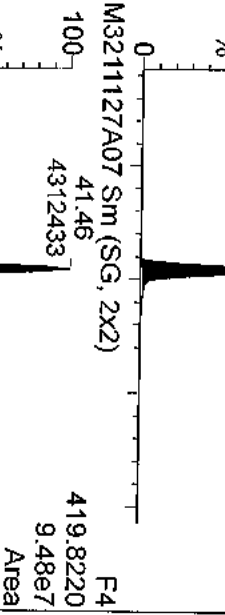
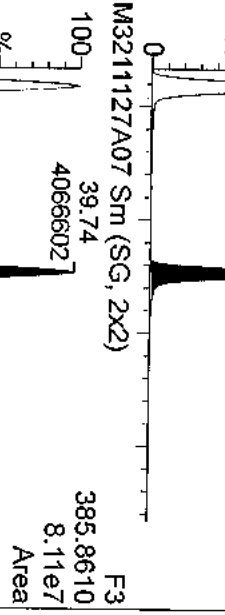
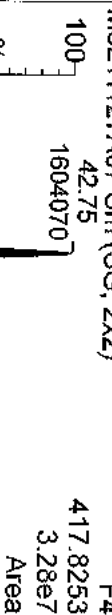
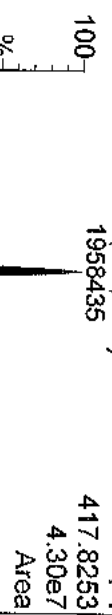
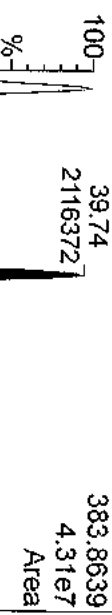
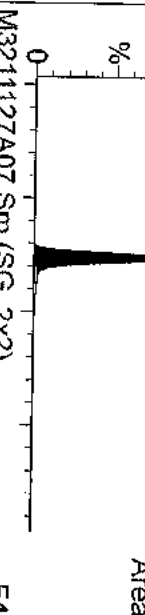
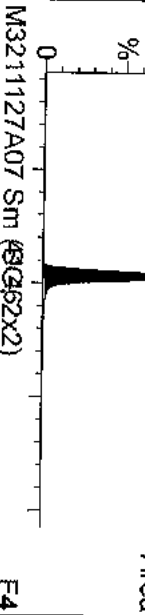
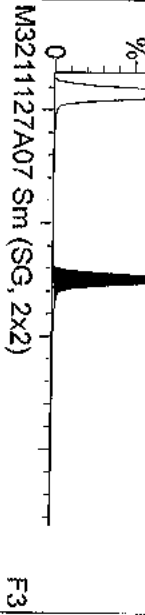
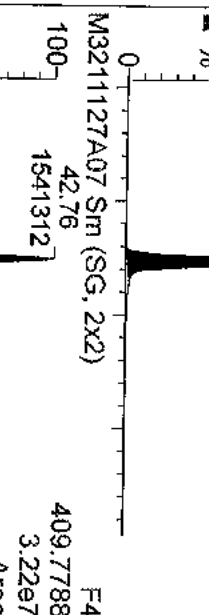
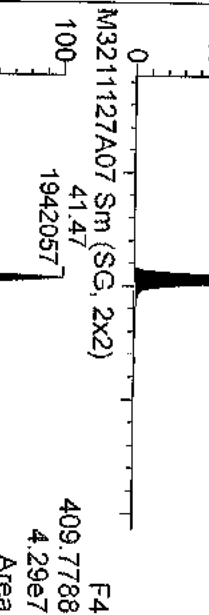
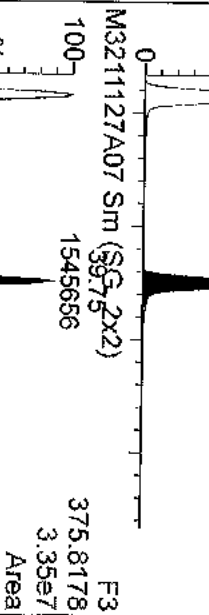
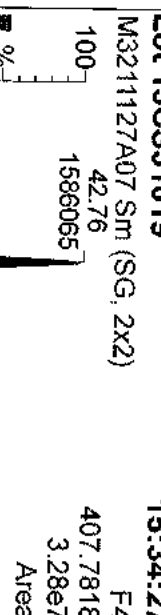
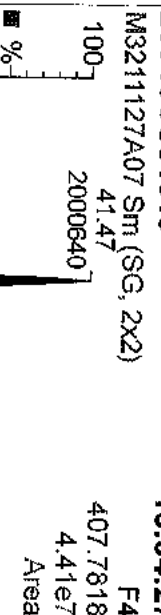
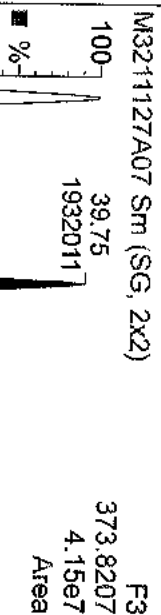
8: 1,2,3,4,6,7,8-HCDDF

9: 1,2,3,4,7,8,9-HCDDF

cs3_1613 27-Nov-2021
 Lot 13CS31019 15:34:27

cs3_1613 27-Nov-2021
 Lot 13CS31019 15:34:27

cs3_1613 27-Nov-2021
 Lot 13CS31019 15:34:27



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M3211027A_EC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A07
 Text: CS3_1613

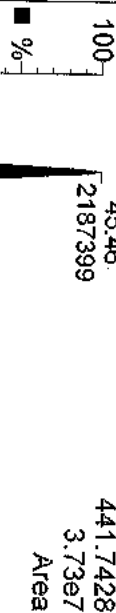
10: OCDE

11: 2,3,7,8-TCDD

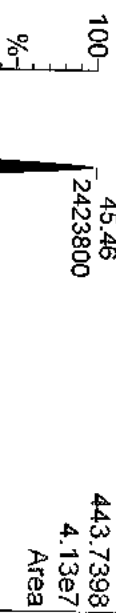
12: 1,2,3,7,8-PeCDD

CS3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

M3211027A07 Sm (SG, 2x2)
 45.46
 2187399
 441.7428
 3.73e7
 Area



M3211027A07 Sm (SG, 2x2)
 45.46
 2423800
 443.7398
 4.13e7
 Area



M3211027A07 Sm (SG, 2x2)
 45.35
 3365458
 469.7780
 5.81e7
 Area



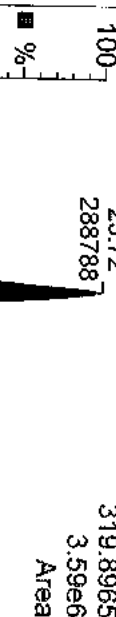
M3211027A07 Sm (SG, 2x2)
 45.34
 3635426
 471.7750
 6.29e7
 Area



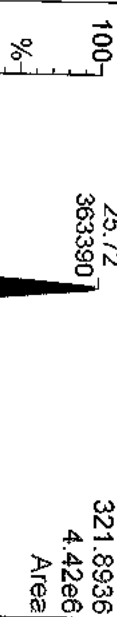
M3211027A07 Sm (SG, 2x2)
 46.00
 47.00
 Time

CS3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

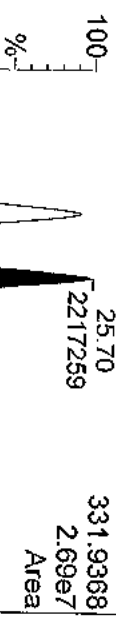
M3211027A07 Sm (SG, 2x2)
 25.72
 288788
 319.8965
 3.59e6
 Area



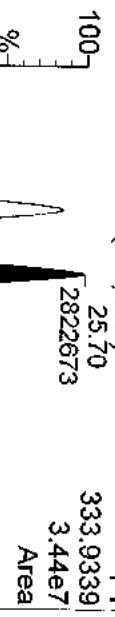
M3211027A07 Sm (SG, 2x2)
 25.72
 363390
 321.8936
 4.42e6
 Area



M3211027A07 Sm (SG, 2x2)
 25.70
 2217259
 331.9368
 2.69e7
 Area



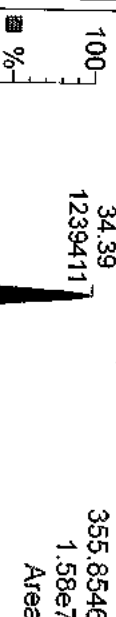
M3211027A07 Sm (SG, 2x2)
 25.70
 2822673
 333.9339
 3.44e7
 Area



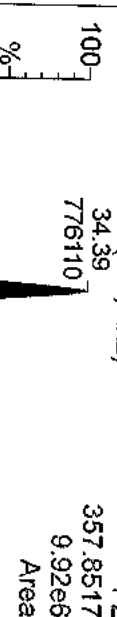
M3211027A07 Sm (SG, 2x2)
 25.00
 26.00
 Time

CS3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

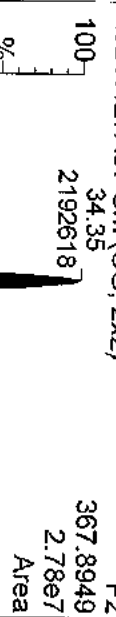
M3211027A07 Sm (SG, 2x2)
 34.39
 1239411
 355.8546
 1.58e7
 Area



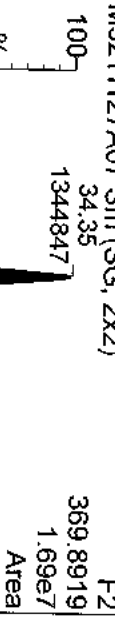
M3211027A07 Sm (SG, 2x2)
 34.39
 776110
 357.8517
 9.92e6
 Area



M3211027A07 Sm (SG, 2x2)
 34.35
 2192618
 367.8949
 2.78e7
 Area



M3211027A07 Sm (SG, 2x2)
 34.35
 1344847
 369.8919
 1.69e7
 Area



M3211027A07 Sm (SG, 2x2)
 34.00
 35.00
 Time

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last Modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M321127A_HC_stdcs_1613
 Last Modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M321127A07
 Text: cs3_1613

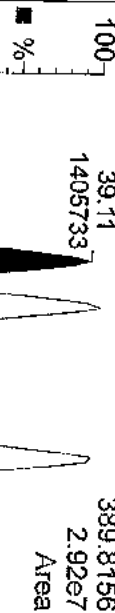
13: 1,2,3,4,7,8-HxCDD

14: 1,2,3,6,7,8-HxCDD

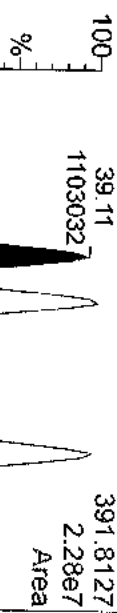
15: 1,2,3,7,8,9-HxCDD

cs3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

M321127A07 Sm (SG, 2x2)



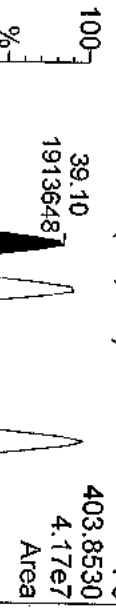
M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)

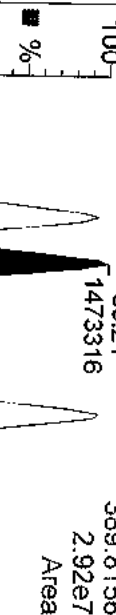


M321127A07 Sm (SG, 2x2)

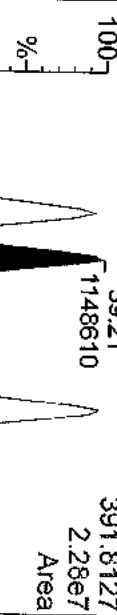


cs3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

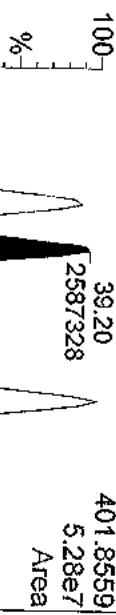
M321127A07 Sm (SG, 2x2)



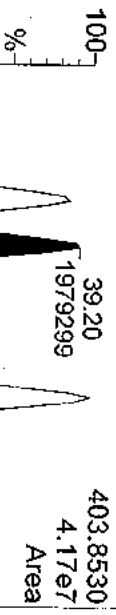
M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)

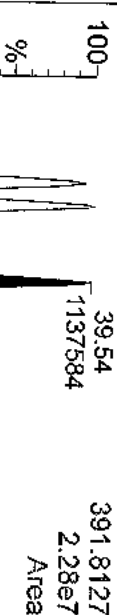


cs3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

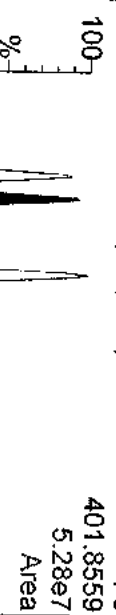
M321127A07 Sm (SG, 2x2)



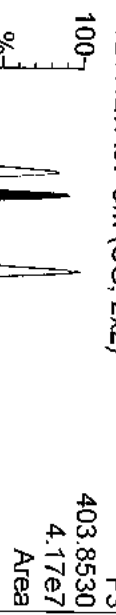
M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)



Quantify Sample Report

Sample Name: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last Modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_HC_stdcs_1613
 Last Modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A07
 Text: cs3_1613

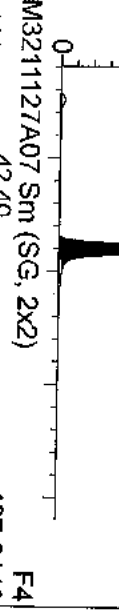
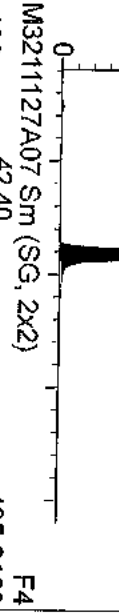
16: 1,2,3,4,6,7,8-HCDD

17: OCDD

33: 1,3C-1,2,3,4-TCDD

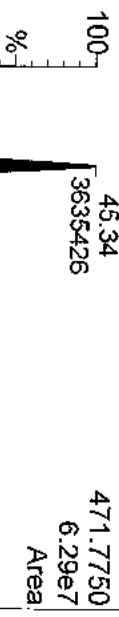
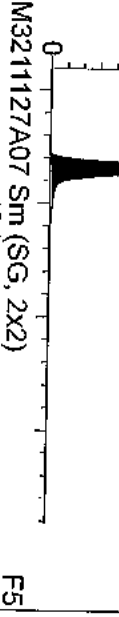
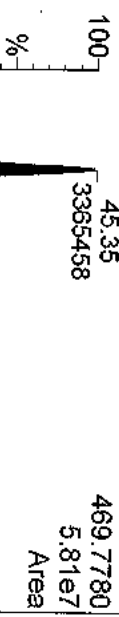
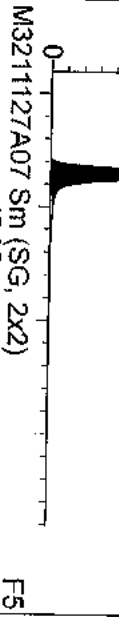
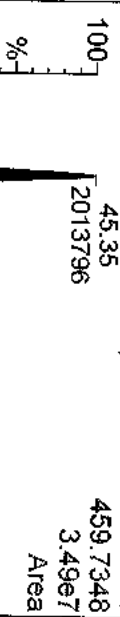
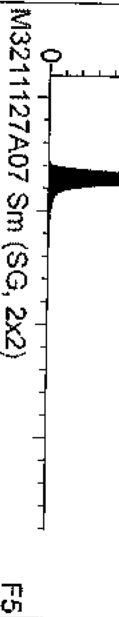
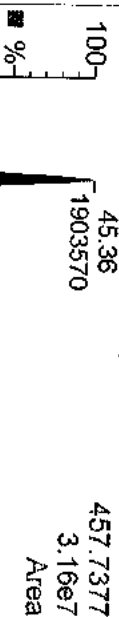
cs3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

M3211027A07 Sm (SG, 2x2)
 42.41
 1294486
 F4
 423.7767
 2.76e7
 Area



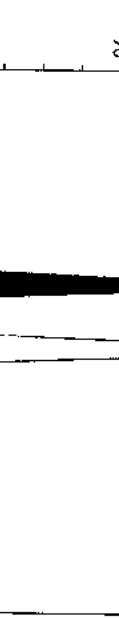
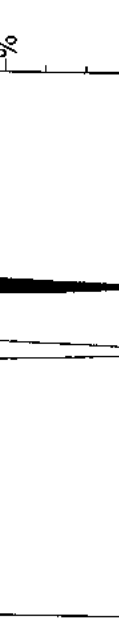
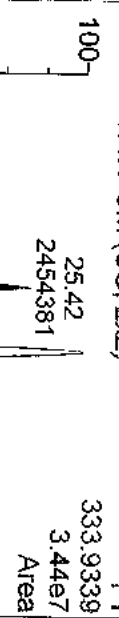
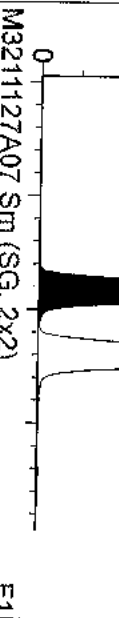
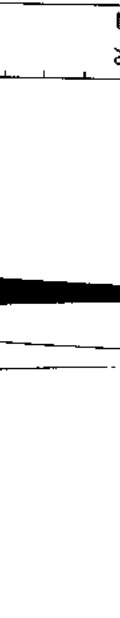
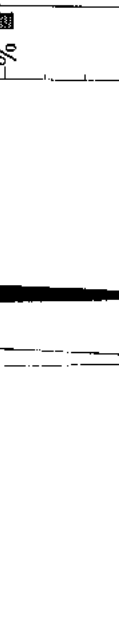
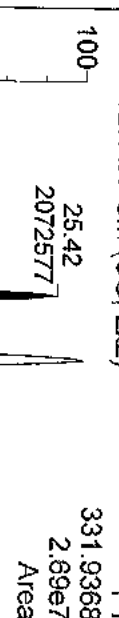
cs3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

M3211027A07 Sm (SG, 2x2)
 45.36
 1903570
 F5
 457.7377
 3.16e7
 Area



cs3_1613
 Lot 13CS31019
 27-Nov-2021
 15:34:27

M3211027A07 Sm (SG, 2x2)
 25.42
 2072577
 F1
 331.9368
 2.69e7
 Area



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M321127A_1613_CALT
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

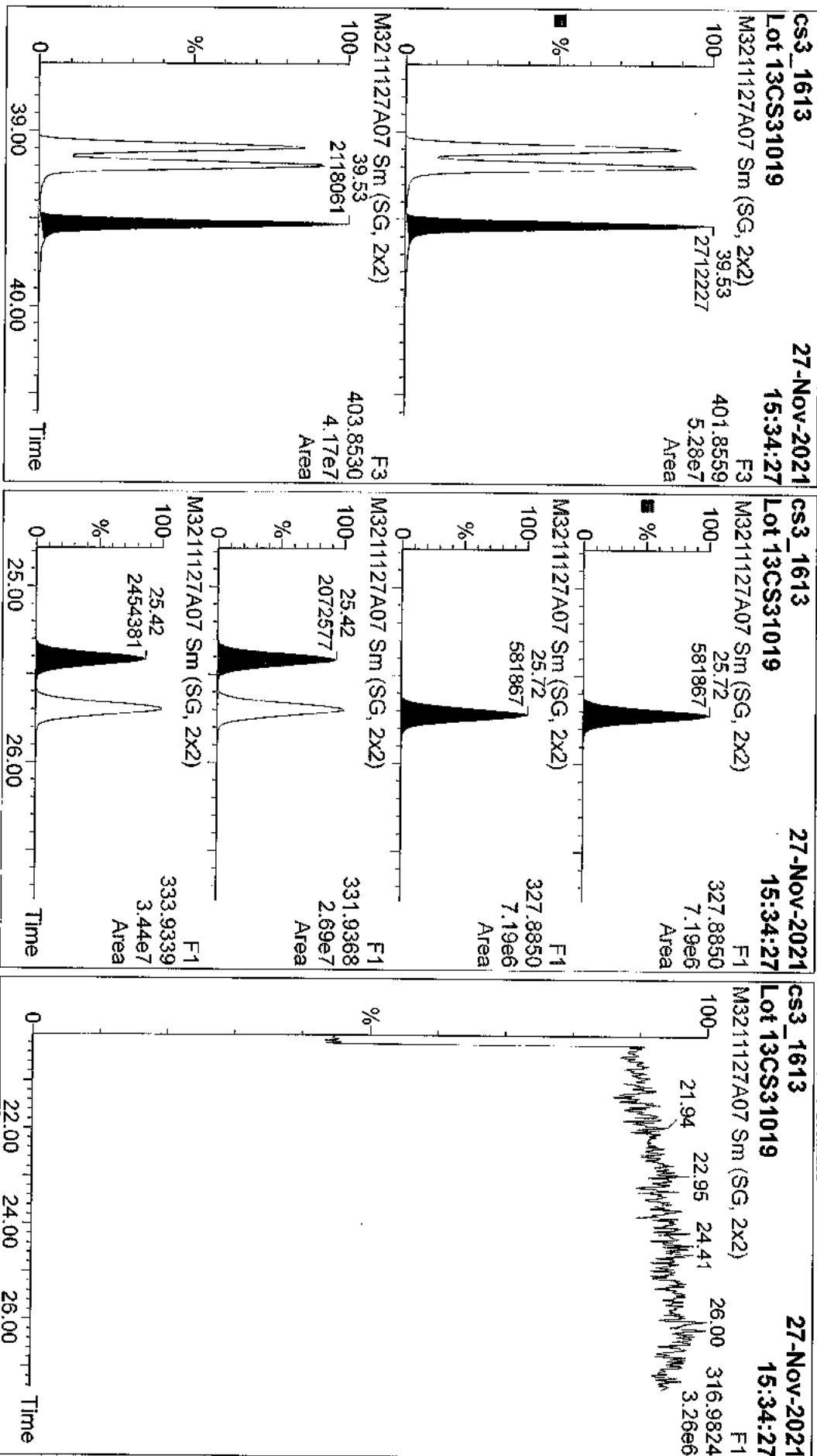
Printed: Mon Nov 29 14:29:45 2021

Name: M321127A07
 Text: cs3_1613

34: 13C-1,2,3,7,8,9-HXCD

35: C137-2,3,7,8-TCDD

39: Function 1 Lockmass



Quantity Sample Report

Sample List: C:\MASSL\YXX\Default.pro\SAVED\MS211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSL\YXX\Default.pro\METHODS\MS211127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

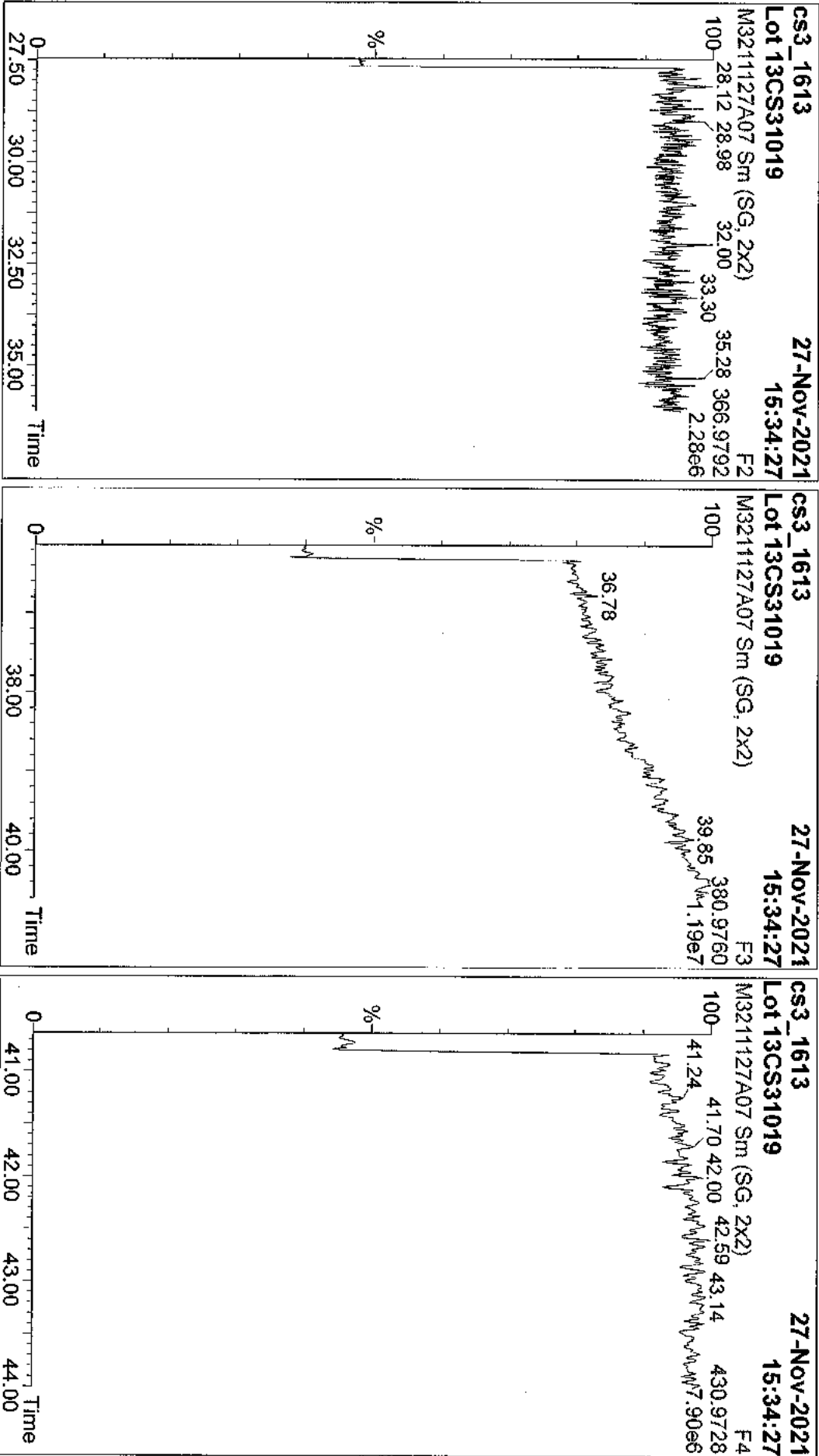
Printed: Mon Nov 29 14:29:45 2021

Name: MS211127A07
 Text: CS3_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass



Quantify Sample Report

Sample List: C:\MASSLIVE\Default.pro\SAMPLEDB\M321127A_1613_CALI
Last modified: Mon Nov 29 13:26:10 2021
Method: C:\MASSLIVE\Default.pro\METHOD\M321127A_HC_std_1613
Last modified: Mon Nov 29 13:05:57 2021
Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M321127A07
Text: cs3_1613

S3: Function 5 Lockmass

cs3_1613 27-Nov-2021
Lot 13CS31019 15:34:27

M321127A07 Sm (SG, 2x2)

F5

100 44.76 45.45 46.49 47.36 454.9728 5.06e6



0 45.00 46.00 47.00 Time

Quantify Sample Summary Report

Sample List: C:\MASSL\N\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSL\N\Default-pro\METHOD\EPA_1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 14:29:05 2021

Sample Name: M3211127A08 Sample ID: Lot 13CS41019

#	Name	RT	Area	Sec Area	Abs Resp	Ion Ratio	Rflag	Response	Flags	pg	%Dev	%Rec	IS#	RRP
1	2,3,7,8-TCDD	24.659	1942257	2506272	4448529	0.77	YES	40.348	bb	41.527	4	104	18	1.009
2	1,2,3,7,8-PeCDF	32.023	10010515	6421517	16432032	1.56	YES	220.993	bb	206.221	3	103	19	1.010
3	2,3,4,7,8-PeCDF	33.674	10753675	6958247	17711932	1.54	YES	223.953	bb	205.508	3	103	20	1.120
4	1,2,3,4,7,8-HxCDF	38.127	10226387	8243262	18469649	1.24	YES	237.986	bd	205.252	3	103	21	1.190
5	1,2,3,6,7,8-HxCDF	38.262	10337926	8303462	18641388	1.25	YES	220.140	db	201.106	1	101	22	1.101
6	2,3,4,6,7,8-HxCDF	38.932	10328070	8260358	18588428	1.25	YES	241.370	bb	205.145	3	103	23	1.207
7	1,2,3,7,8,9-HxCDF	39.757	8900491	7149181	16049672	1.03	YES	225.378	bb	205.390	3	103	24	1.127
8	1,2,3,4,6,7,8-HpCDF	41.478	9235072	8988621	18223653	1.03	YES	245.990	bb	206.883	3	103	25	1.250
9	1,2,3,4,7,8,9-HpCDF	42.767	7669170	7415117	15084287	0.88	YES	537.436	bb	433.450	4	104	26	1.226
10	OCDF	45.476	10820188	12298529	23118717	0.79	YES	53.407	db	43.037	8	108	27	1.335
11	2,3,7,8-TCDD	25.723	1377347	1745998	3123345	1.59	YES	228.002	bb	204.255	2	102	28	1.140
12	1,2,3,7,8-PeCDF	34.386	5988393	3763015	9751408	1.29	YES	230.457	bd	207.348	4	104	29	1.152
13	1,2,3,4,7,8-HxCDD	39.118	6757837	5226357	11984194	1.24	YES	227.380	db	203.082	2	102	30	1.137
14	1,2,3,6,7,8-HxCDD	39.221	6910521	5591972	12502493	1.26	YES	223.593	bb	204.479	2	102	30	1.118
15	1,2,3,7,8,9-HxCDD	39.551	6849226	5445022	12394248	1.05	YES	219.778	bb	202.605	1	101	31	1.099
16	1,2,3,4,6,7,8-HpCDD	42.416	6164902	5874810	12039712	0.90	YES	432.596	bb	410.232	3	103	32	1.081
17	OCDD	45.358	8813708	9795149	18608857	0.79	YES	207.522	bb	96.765	-3	97	33	2.075
18	13C-2,3,7,8-TCDF	24.637	4875176	6150306	11025482	1.60	YES	153.121	bb	97.073	-3	97	33	1.531
19	13C-1,2,3,7,8-PeCDF	31.992	5009985	3125214	8135199	1.60	YES	148.859	bb	99.532	-3	97	33	1.489
20	13C-2,3,4,7,8-PeCDF	33.643	4869598	3039159	7908757	0.53	YES	132.653	bd	99.532	-0	100	34	1.327
21	13C-1,2,3,4,7,8-HxCDF	38.117	2690222	5070597	770819	0.53	YES	144.741	bb	100.858	1	101	34	1.447
22	13C-2,3,6,7,8-HxCDF	38.251	2928881	5539091	8467972	0.53	YES	131.634	bb	98.353	-2	98	34	1.316
23	13C-1,2,3,4,6,7,8-HxCDF	38.922	2659363	5041841	7701204	0.53	YES	121.721	bb	97.297	-3	97	34	1.217
24	13C-1,2,3,7,8,9-HxCDF	39.747	2455419	4665817	7121236	0.45	YES	105.125	bb	98.394	-2	98	34	1.246
25	13C-1,2,3,4,6,7,8-HpCDF	41.467	2251596	5038175	7289770	0.45	YES	124.602	bb	98.870	-1	99	34	1.051
26	13C-1,2,3,4,7,8,9-HpCDF	42.757	1904449	4245859	6150307	0.82	YES	110.076	bb	94.971	-5	95	33	1.101
27	13C-2,3,7,8-TCDD	25.701	2633824	3214417	5848240	1.65	YES	80.500	bb	97.986	-2	98	33	0.805
28	13C-1,2,3,7,8-PeCDD	34.365	2633893	1613005	4276898	1.29	YES	88.885	bd	97.585	-1	99	34	0.889
29	13C-1,2,3,4,7,8-HxCDD	39.097	2930624	2269557	5200181	1.26	YES	93.984	db	98.749	-3	97	34	0.940
30	13C-1,2,3,6,7,8-HxCDD	42.406	3062477	2436028	5498505	0.91	YES	147.054	bb	194.881	-3	97	34	0.735
31	13C-1,2,3,4,6,7,8-HpCDD	45.347	2826995	2651129	5478124	0.83	YES	5312932.250	bb	114.620	15	115	0	53129.323
32	13C-OCDD	25.427	4091958	4511385	8603442	1.24	YES	5850448.250	bb	110.055	10	110	0	58504.482
33	13C-1,2,3,7,8,9-HxCDD	35.541	2414930	2898003	5312932	1.00	YES	101.245	bb	40.210	1	101	33	2.531
34	Cl37-2,3,7,8-TCDD	25.723	2689550	2689550	5379100	-	-	-	-	43.853	-	-	18	-
35	Cl37-2,3,7,8-TCDD	-	0	0	0	-	-	-	-	43.853	-	-	18	-
36	Totals Tetra-Furans	-	0	0	0	-	-	-	-	415.708	-	-	27	-
37	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	205.119	-	-	28	-
38	Totals Penta-Furans	-	0	0	0	-	-	-	-	818.227	-	-	0	-
39	Totals Penta-Dioxins	-	0	0	0	-	-	-	-	616.217	-	-	30	-
40	Totals Hexa-Furans	-	0	0	0	-	-	-	-	417.389	-	-	0	-
41	Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	205.796	-	-	31	-
42	Totals Hepta-Furans	-	0	0	0	-	-	-	-	-	-	-	0	-
43	Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	0	-

5 Pds.

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMFLEDB\M321127A_1613_CALI
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 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

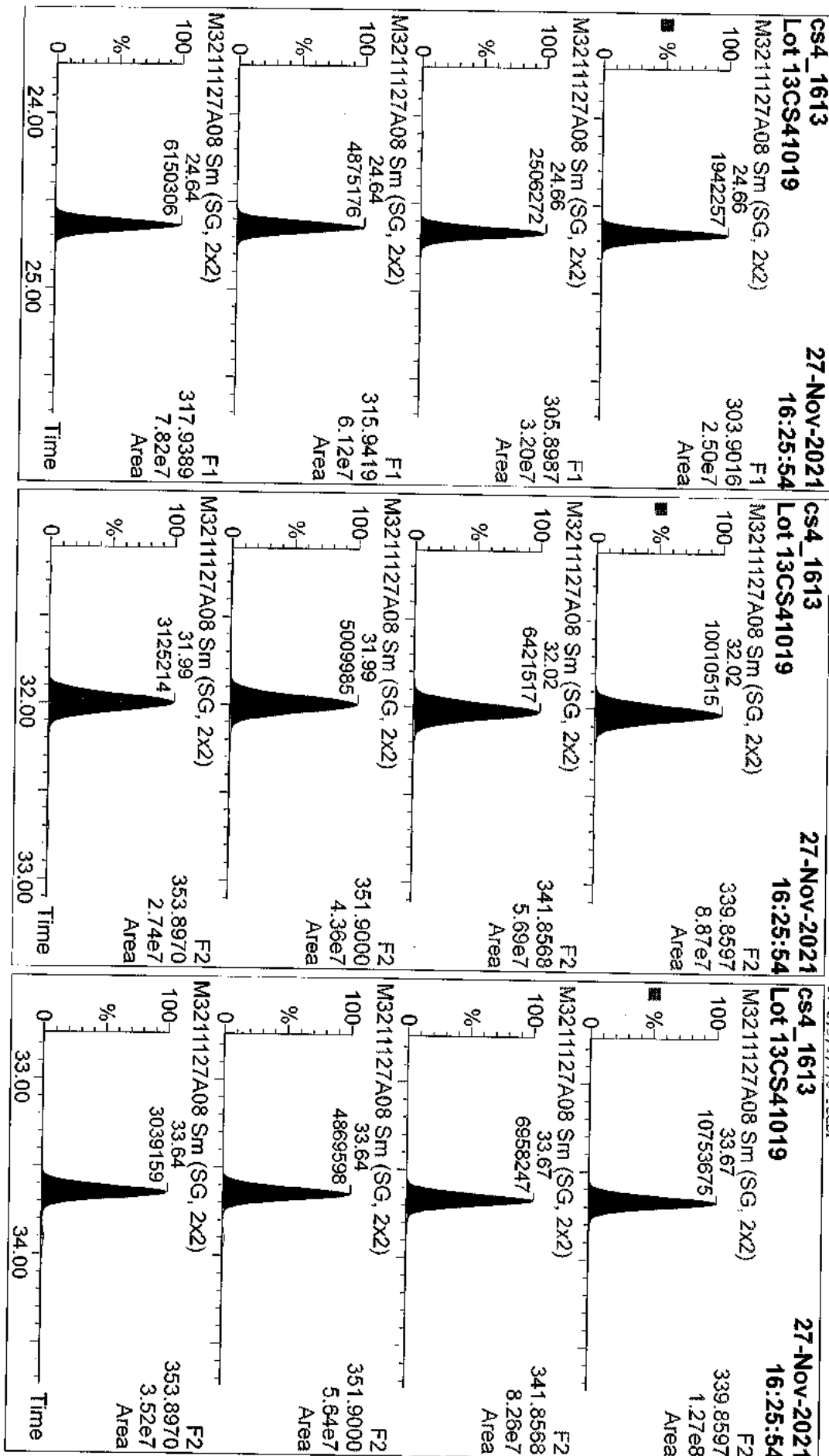
Printed: Mon Nov 29 14:29:45 2021

Name: M321127A08
 Text: cs4_1613

1: 2, 3, 7, 8-TCDF

2: 1, 2, 3, 7, 8-PCDF

3: 2, 3, 4, 7, 8-PCDF



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M3211027A_HC_std_1613
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 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A08
 Text: cs4_1613

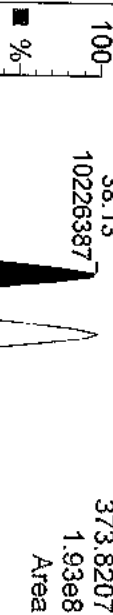
4: 1,2,3,4,7,8-HxCDF

5: 1,2,3,6,7,8-HxCDF

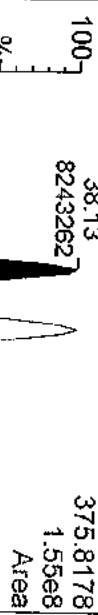
6: 2,3,4,6,7,8-HxCDF

cs4_1613
 Lot 13CS41019
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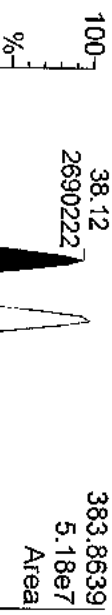
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M3211027A08 Sm (SG, 2x2)



M3211027A08 Sm (SG, 2x2)

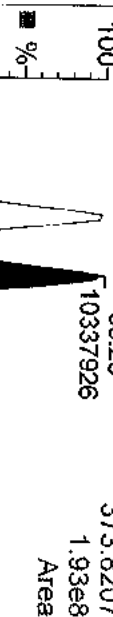


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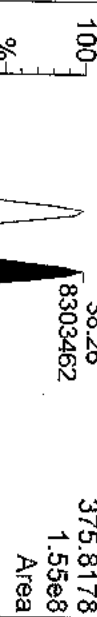


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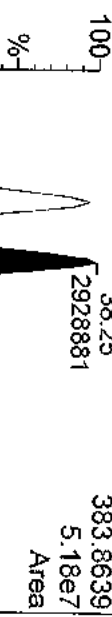
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M3211027A08 Sm (SG, 2x2)



M3211027A08 Sm (SG, 2x2)

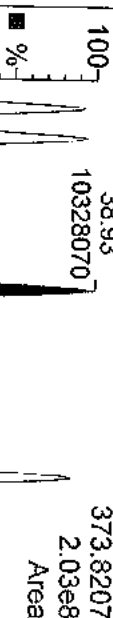


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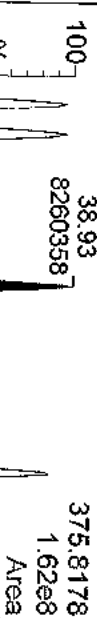


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 16:25:54

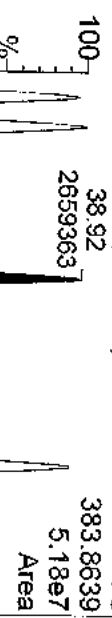
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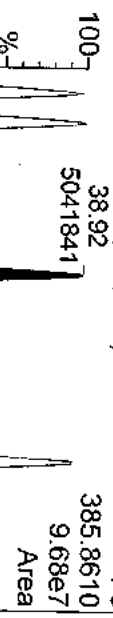
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M3211027A08 Sm (SG, 2x2)



M3211027A08 Sm (SG, 2x2)



Quantity Sample Report

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 Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_HC_std1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M321127A08
 Text: cs4_1613

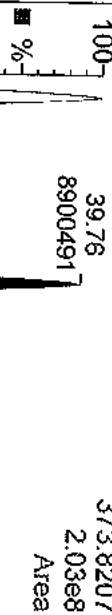
7: 1,2,3,7,8,9-HxCDF

8: 1,2,3,4,6,7,8-HxCDF

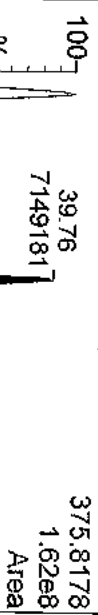
9: 1,2,3,4,7,8,9-HxCDF

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 Lot 13CS41019
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 16:25:54

M321127A08 Sm (SG, 2x2)



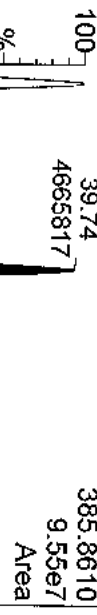
M321127A08 Sm (SG, 2x2)



M321127A08 Sm (SG, 2x2)

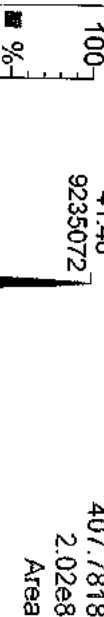


M321127A08 Sm (SG, 2x2)



CS4_1613
 Lot 13CS41019
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 16:25:54

M321127A08 Sm (SG, 2x2)



M321127A08 Sm (SG, 2x2)



M321127A08 Sm (SG, 2x2)



M321127A08 Sm (SG, 2x2)

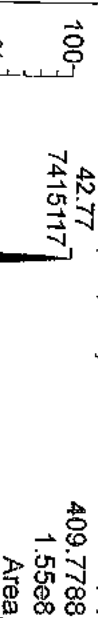


CS4_1613
 Lot 13CS41019
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 16:25:54

M321127A08 Sm (SG, 2x2)



M321127A08 Sm (SG, 2x2)



M321127A08 Sm (SG, 2x2)



M321127A08 Sm (SG, 2x2)



Quantify Sample Report

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 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A08
 Text: cs4_1613

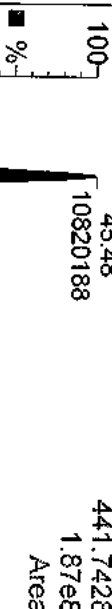
10: OCDF

11: 2,3,7,8-TCDD

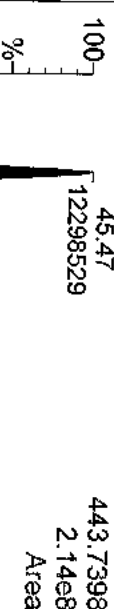
12: 1,2,3,7,8-PeCDD

cs4_1613 27-Nov-2021
 Lot 13CS41019 16:25:54

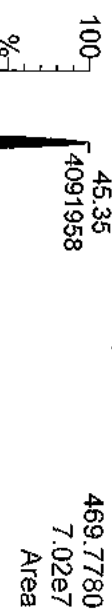
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M3211027A08 Sm (SG, 2x2)



M3211027A08 Sm (SG, 2x2)

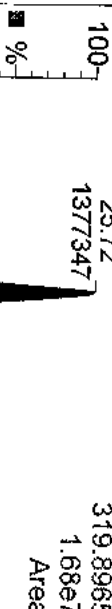


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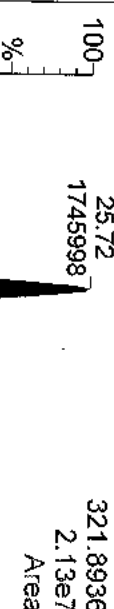


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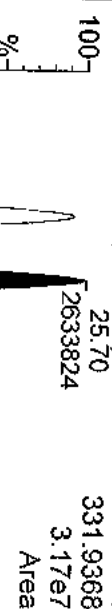
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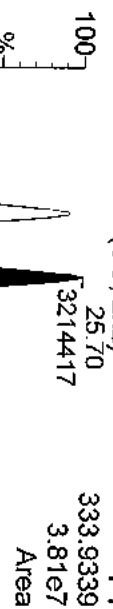
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M3211027A08 Sm (SG, 2x2)

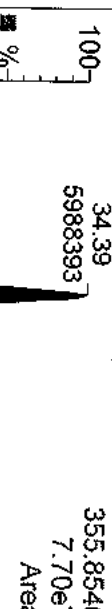


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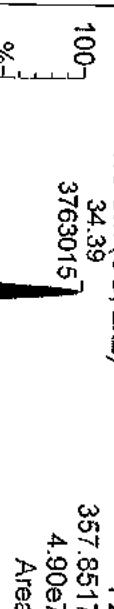


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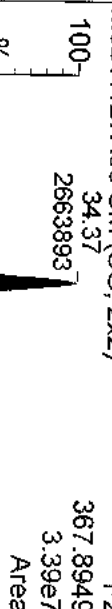
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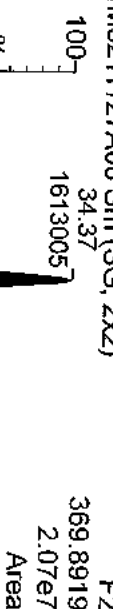
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M3211027A08 Sm (SG, 2x2)



M3211027A08 Sm (SG, 2x2)



Quantify Sample Report

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 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M321127A08
 Text: cs4_1613

13: 1,2,3,4,7,8-HxCDD

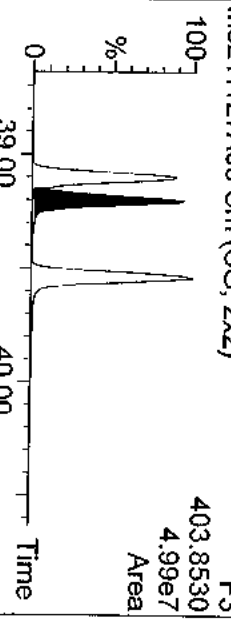
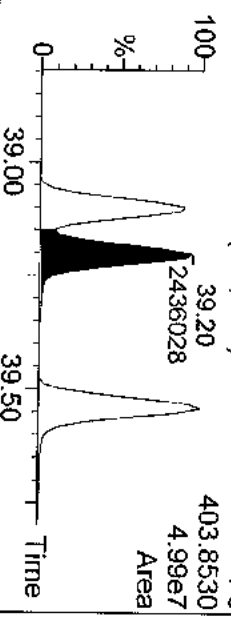
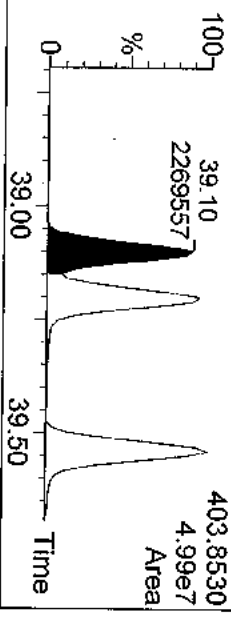
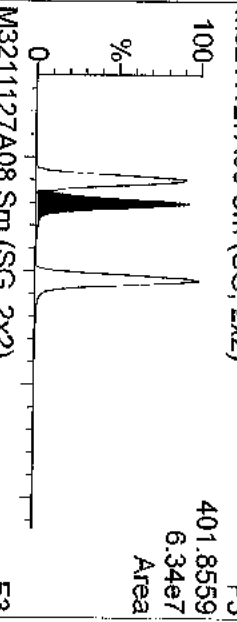
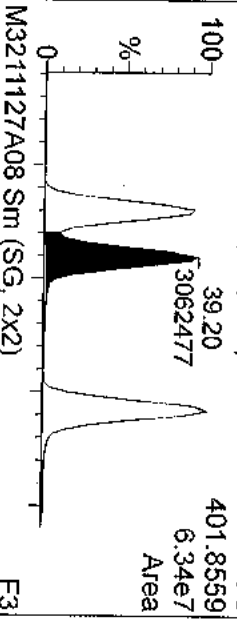
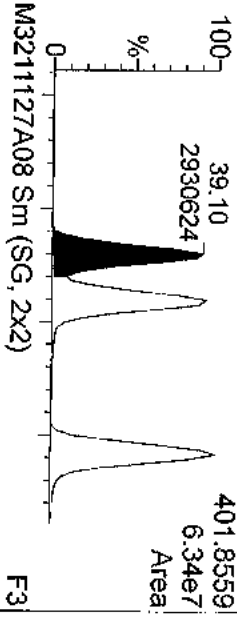
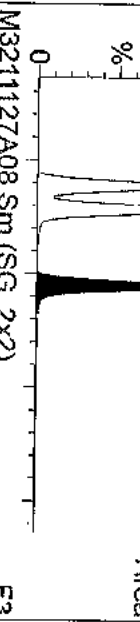
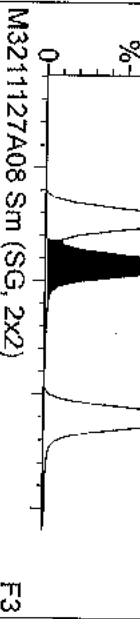
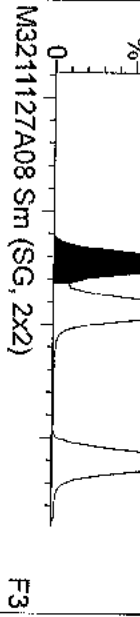
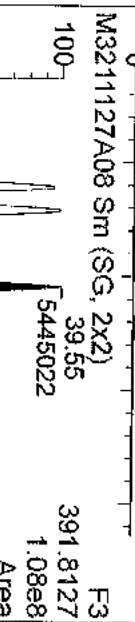
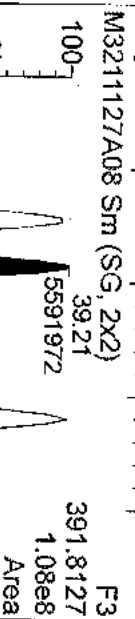
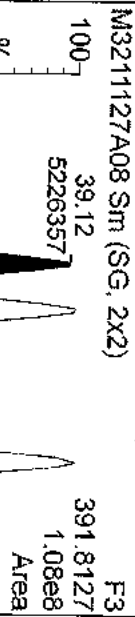
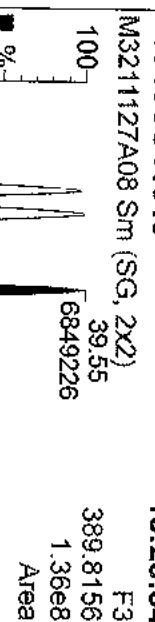
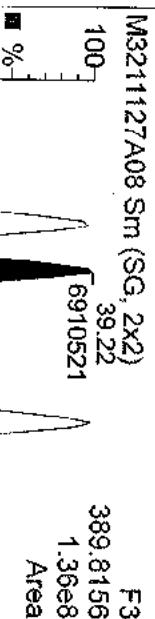
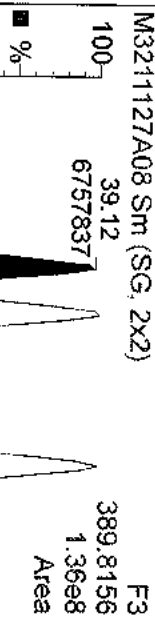
14: 1,2,3,6,7,8-HxCDD

15: 1,2,3,7,8,9-HxCDD

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Quantity Sample Report

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 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A08
 Text: cs4_1613

16: 1,2,3,4,6,7,8-HCDD

17: OCDD

33: 13C-1,2,3,4-TCDD

cs4_1613
 Lot 13CS41019
 27-Nov-2021
 16:25:54

M3211127A08 Sm (SG, 2x2)



M3211127A08 Sm (SG, 2x2)



M3211127A08 Sm (SG, 2x2)

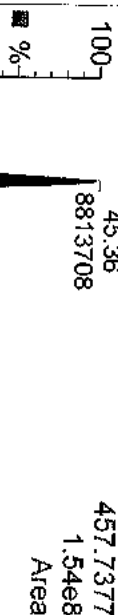


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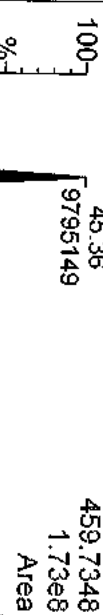


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 27-Nov-2021
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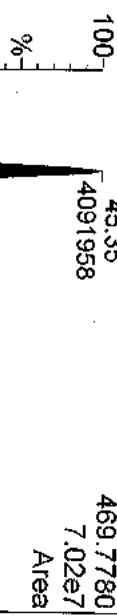
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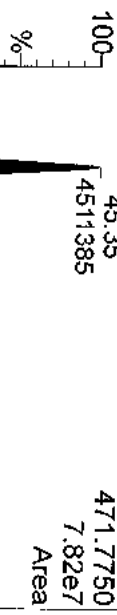
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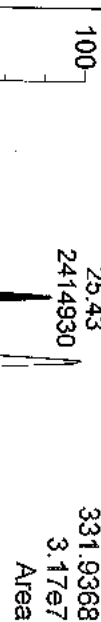


M3211127A08 Sm (SG, 2x2)

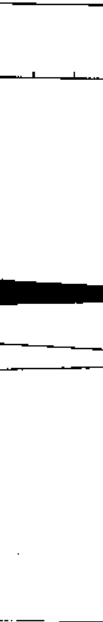


cs4_1613
 Lot 13CS41019
 27-Nov-2021
 16:25:54

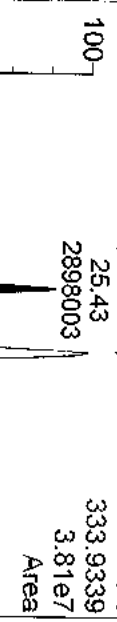
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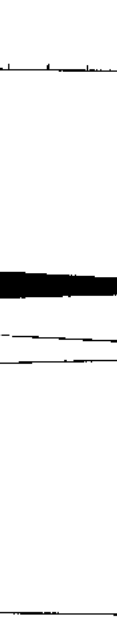
M3211127A08 Sm (SG, 2x2)



M3211127A08 Sm (SG, 2x2)



M3211127A08 Sm (SG, 2x2)



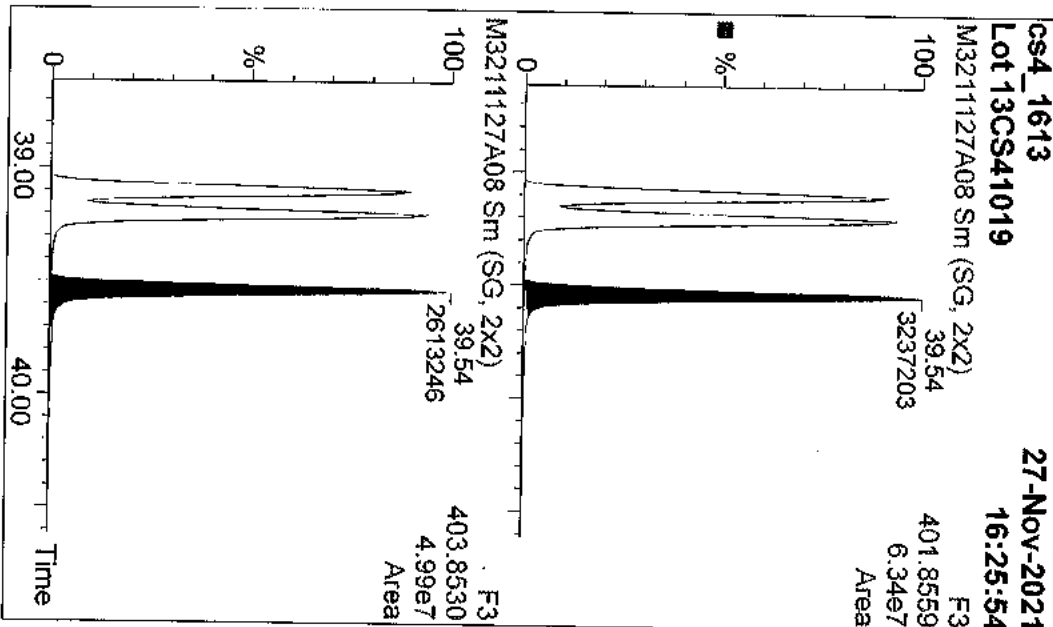
Quantify Sample Report

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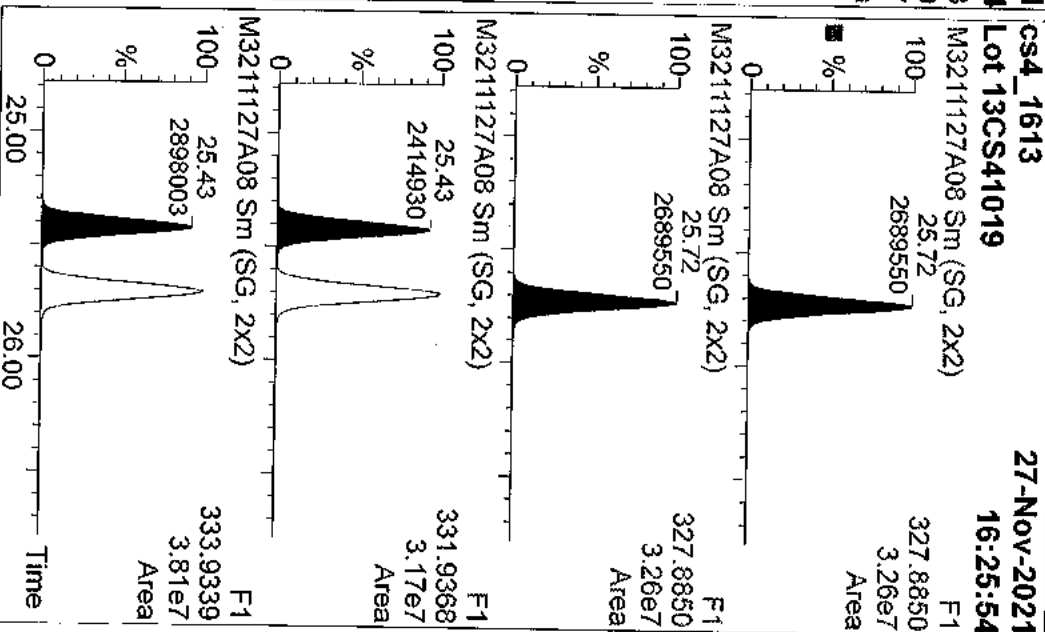
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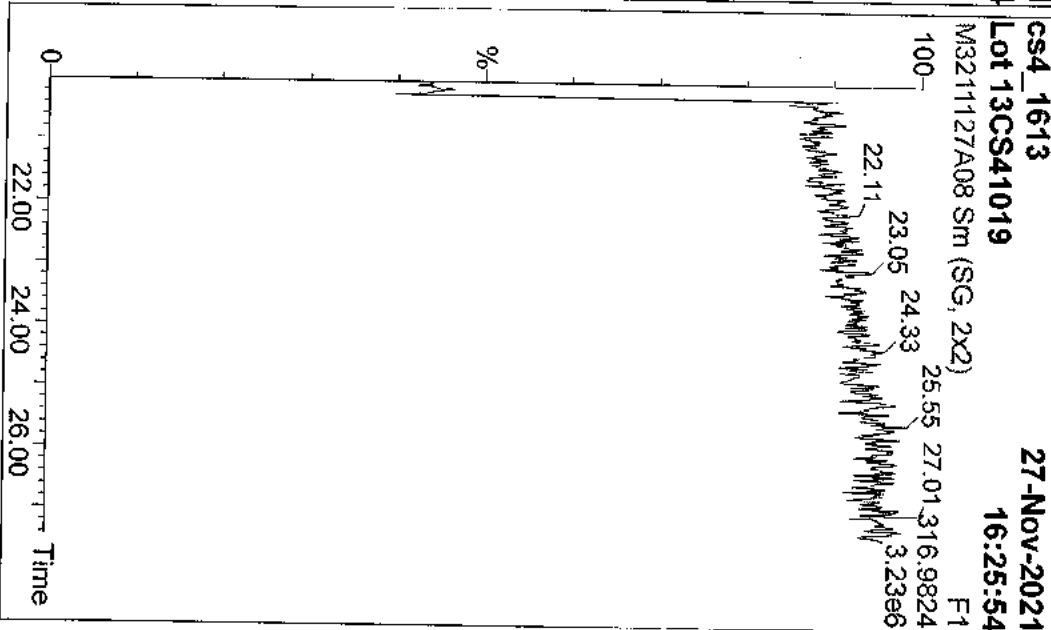
34: 13C-1,2,3,7,8,9-HxCDD



35: C137-2,3,7,8-TCDD



39: Function 1 Lockmass



Quantify Sample Report

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 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A08
 Text: cs4_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass

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 Lot 13CS41019 16:25:54

cs4_1613 27-Nov-2021
 Lot 13CS41019 16:25:54

M3211027A08 Sm (SG, 2x2)

M3211027A08 SG: Voltage SIR 10 Channels EI+

M3211027A08 Sm (SG, 2x2)

100- 27.93 29.62 32.36 32.93 366.9792 F2 2.29e6

100- 36.34 37.89 38.25 39.13 39.93 380.9760 1.16e7

100- 41.58 41.97 42.39 42.73 430.9728 F4 7.88e6

0 27.50 30.00 32.50 35.00 Time

0 38.00 40.00 Time

0 41.00 42.00 43.00 44.00 Time

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SMPLRDR\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A08
 Text: cs4_1613

53: Function S.Lockmass

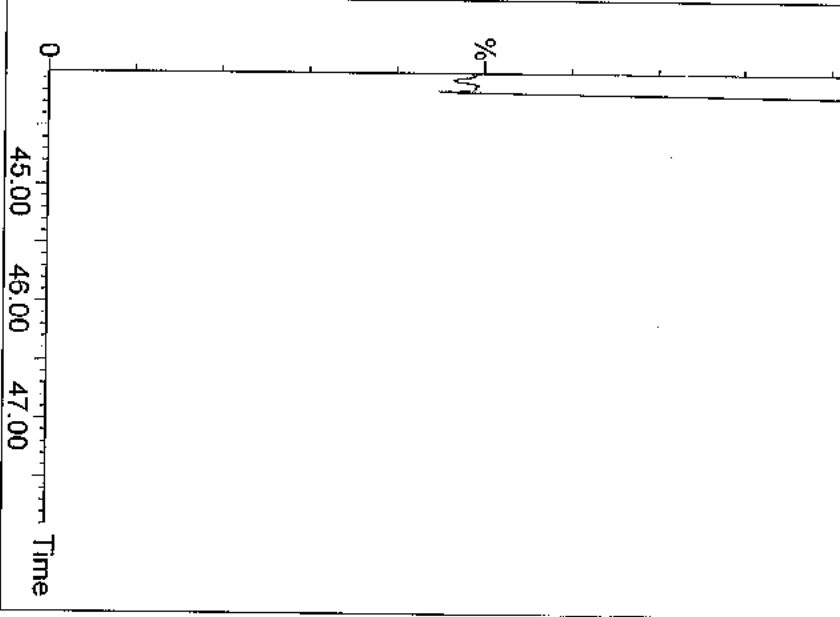
cs4_1613 27-Nov-2021

Lot 13CS41019 16:25:54

M3211027A08 Sm (SG, 2x2) F5

100-44.39 45.68 45.90 46.13 47.52 454.9728

5.0266



Quantify Sample Summary Report

Sample List: C:\MASSLTXK\Default-pro\SAMELEDB\M3211127A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLTXK\Default-pro\METHODS\EPA_1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 14:29:05 2021

Sample Name: M3211127A09 Sample ID: Lot 13C551019

# Name	RT	Area	Sec Area	Abs Resp	Ion Ratio	RFlag	Response	Flags	Pg	%Dev	%Rec	IS#	RRF
1 2,3,7,8-TCDF	24.638	11460270	14817615	26277885	0.77	YES	203.307	bb	209.248	5	105	18	1.017
2 1,2,3,7,8-PeCDF	32.023	65266932	41837848	107104780	1.56	YES	1011.023	bb	1032.218	3	103	19	1.011
3 2,3,4,7,8-PeCDF	33.664	72461864	46655356	119117220	1.55	YES	1118.306	bb	1026.198	3	103	20	1.118
4 1,2,3,4,7,8-HxCDF	38.127	63345364	53929632	117274996	1.17	YES	1135.709	bb	979.496	-2	98	21	1.136
5 1,2,3,6,7,8-HxCDF	38.262	62670440	54689252	117359692	1.15	YES	1086.123	db	992.212	-1	99	22	1.086
6 2,3,4,6,7,8-HxCDF	38.922	62054796	54021496	116076292	1.15	YES	1136.705	bb	966.107	-3	97	23	1.137
7 1,2,3,7,8,9-HxCDF	39.757	55968944	47089120	103058064	1.19	YES	1077.441	bb	981.889	-2	98	24	1.077
8 1,2,3,4,6,7,8-HpCDF	41.467	53752848	53417472	107170320	1.01	YES	1153.785	bb	954.830	-5	95	25	1.154
9 1,2,3,4,7,8,9-HpCDF	42.757	47620924	46099336	93720260	1.03	YES	1204.479	bb	1023.331	2	102	26	1.204
10 OCDF	45.476	68237320	72769704	141007024	0.94	YES	2348.812	bb	1894.353	-5	95	32	1.174
11 2,3,7,8-TCDD	25.712	8511334	10549099	19062233	0.81	YES	266.380	db	214.657	7	107	27	1.332
12 1,2,3,7,8-PeCDD	34.386	41383676	26130320	67513996	1.58	YES	1160.595	bb	1039.716	4	104	28	1.161
13 1,2,3,4,7,8-HxCDD	39.107	45894520	36374600	82269120	1.26	YES	1122.422	bb	1009.869	1	101	29	1.122
14 1,2,3,6,7,8-HxCDD	39.211	47426324	37844916	85271240	1.25	YES	1115.901	bb	966.653	-0	100	30	1.116
15 1,2,3,7,8,9-HxCDD	39.551	46343764	36770376	83114140	1.26	YES	1087.672	bb	994.694	-1	99	30	1.088
16 1,2,3,4,6,7,8-HpCDD	42.406	39815588	38084640	77900228	1.04	YES	1087.307	bb	1002.346	0	100	31	1.087
17 OCDD	45.369	58501028	63707764	122208792	0.92	YES	2035.682	bb	1930.445	-3	97	32	1.018
18 1,3C-2,3,7,8-TCDF	24.626	5725427	7197764	12925216	0.80	YES	224.365	bb	104.620	5	105	33	2.244
19 1,3C-1,2,3,7,8-PeCDF	31.992	6518020	4075682	10593702	1.60	YES	183.893	db	116.582	17	117	33	1.839
20 1,3C-2,3,4,7,8-PeCDF	33.643	6527810	4123772	10651581	1.58	YES	184.898	bb	120.506	21	121	33	1.849
21 1,3C-1,2,3,4,7,8-HxCDF	38.117	3552271	6773876	1036147	0.52	YES	130.288	db	97.757	-2	98	34	1.303
22 1,3C-1,2,3,6,7,8-HxCDF	38.241	3726783	7078594	10805376	0.53	YES	136.335	bb	95.001	-5	95	34	1.363
23 1,3C-2,3,4,6,7,8-HxCDF	38.911	3547673	6663970	10211643	0.52	YES	128.844	bb	96.268	-4	96	34	1.288
24 1,3C-1,2,3,7,8,9-HxCDF	39.737	3281276	6283798	9565074	0.45	YES	120.666	bb	96.469	-4	96	34	1.207
25 1,3C-1,2,3,4,6,7,8-HpCDF	41.457	2902060	6386529	9288589	0.45	YES	117.197	bb	92.546	-7	93	34	1.172
26 1,3C-1,2,3,4,7,8,9-HpCDF	42.746	2406164	5374817	7780981	0.79	YES	98.175	bb	92.334	-8	92	34	0.982
27 1,3C-2,3,7,8-TCDD	25.691	3158082	3397951	7156032	0.79	YES	124.220	bb	107.175	7	107	33	1.242
28 1,3C-1,2,3,7,8-PeCDD	34.365	3607768	2209422	5817218	1.63	YES	100.979	bb	122.914	23	123	33	1.010
29 1,3C-1,2,3,4,7,8-HxCDD	39.097	4137605	3192003	7329608	1.30	YES	92.480	bb	101.533	2	102	34	0.925
30 1,3C-1,2,3,6,7,8-HxCDD	39.200	4274217	3367252	7641469	1.27	YES	96.415	db	101.303	1	101	34	0.964
31 1,3C-1,2,3,4,6,7,8-HpCDD	42.396	3703545	3460965	7164509	1.07	YES	90.397	bb	96.010	-4	96	34	0.904
32 1,3C-OCDD	45.358	5567022	6439645	12006667	0.86	YES	151.492	bb	200.762	0	100	34	0.757
33 1,3C-1,2,3,4-TCDD	25.405	2596178	3164610	5760788	0.82	YES	5760787.750	bb	124.282	24	124	0	57607.878
34 1,3C-1,2,3,7,8,9-HxCDD	39.541	4458498	3467115	7925612	1.29	YES	7925612.250	bb	149.092	49	149	0	79256.122
35 Cl37-2,3,7,8-TCDD	25.712	16539993	16539993	33079986	1.00	YES	574.227	bb	228.056	14	114	33	2.871
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	213.051	-	-	18	-
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	218.477	-	-	27	-
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	2075.618	-	-	0	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	1042.676	-	-	28	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	3926.076	-	-	0	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	3005.833	-	-	30	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	1986.827	-	-	0	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	1014.319	-	-	31	-

5 Pds.

Quantify Sample Report

Sample list: C:\MASSLYNX\Default.pro\SAMPLEDB\M321127A_1613.CAL
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M321127A09
 Text: cs5_1613

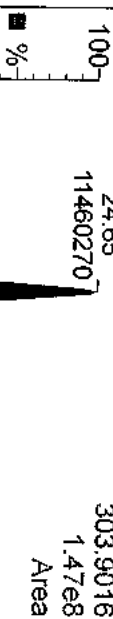
1: 2,3,7,8-TCDF

2: 1,2,3,7,8-PeCDF

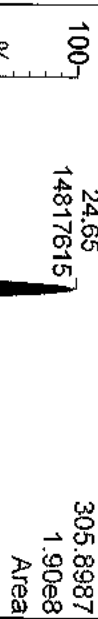
3: 2,3,4,7,8-PeCDF

cs5_1613
 Lot 13CS51019
 27-Nov-2021
 17:17:19

M321127A09 Sm (SG, 2x2)
 24.65
 11460270
 F1
 303.9016
 1.47e8
 Area



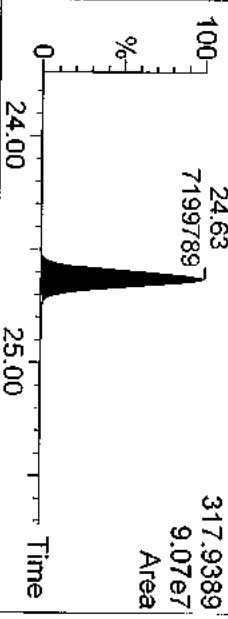
M321127A09 Sm (SG, 2x2)
 24.65
 14817615
 F1
 305.8987
 1.90e8
 Area



M321127A09 Sm (SG, 2x2)
 24.63
 5725427
 F1
 315.9419
 7.20e7
 Area



M321127A09 Sm (SG, 2x2)
 24.63
 7199789
 F1
 317.9389
 9.07e7
 Area

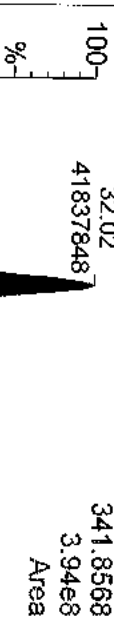


cs5_1613
 Lot 13CS51019
 27-Nov-2021
 17:17:19

M321127A09 Sm (SG, 2x2)
 32.02
 65266932
 F2
 339.8597
 6.16e8
 Area



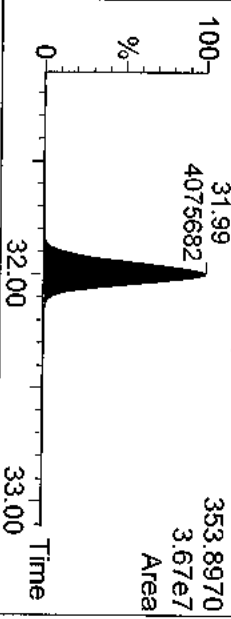
M321127A09 Sm (SG, 2x2)
 32.02
 41837848
 F2
 341.8568
 3.94e8
 Area



M321127A09 Sm (SG, 2x2)
 31.99
 6518020
 F2
 351.9000
 5.85e7
 Area

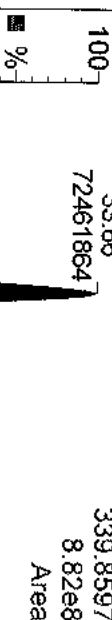


M321127A09 Sm (SG, 2x2)
 31.99
 4075682
 F2
 353.8970
 3.67e7
 Area

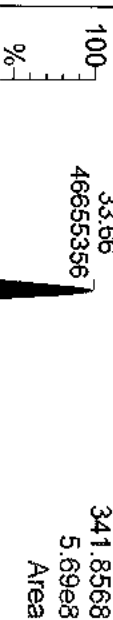


cs5_1613
 Lot 13CS51019
 27-Nov-2021
 17:17:19

M321127A09 Sm (SG, 2x2)
 33.66
 72461864
 F2
 339.8597
 8.82e8
 Area



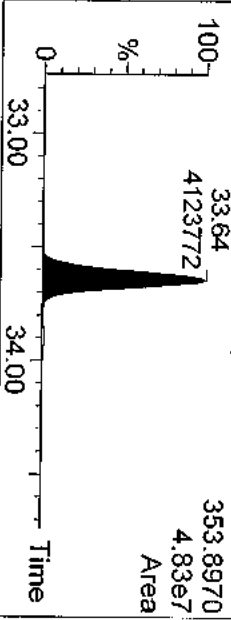
M321127A09 Sm (SG, 2x2)
 33.66
 46655356
 F2
 341.8568
 5.69e8
 Area



M321127A09 Sm (SG, 2x2)
 33.64
 6527810
 F2
 351.9000
 7.70e7
 Area



M321127A09 Sm (SG, 2x2)
 33.64
 4123772
 F2
 353.8970
 4.83e7
 Area



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 JCD Code:

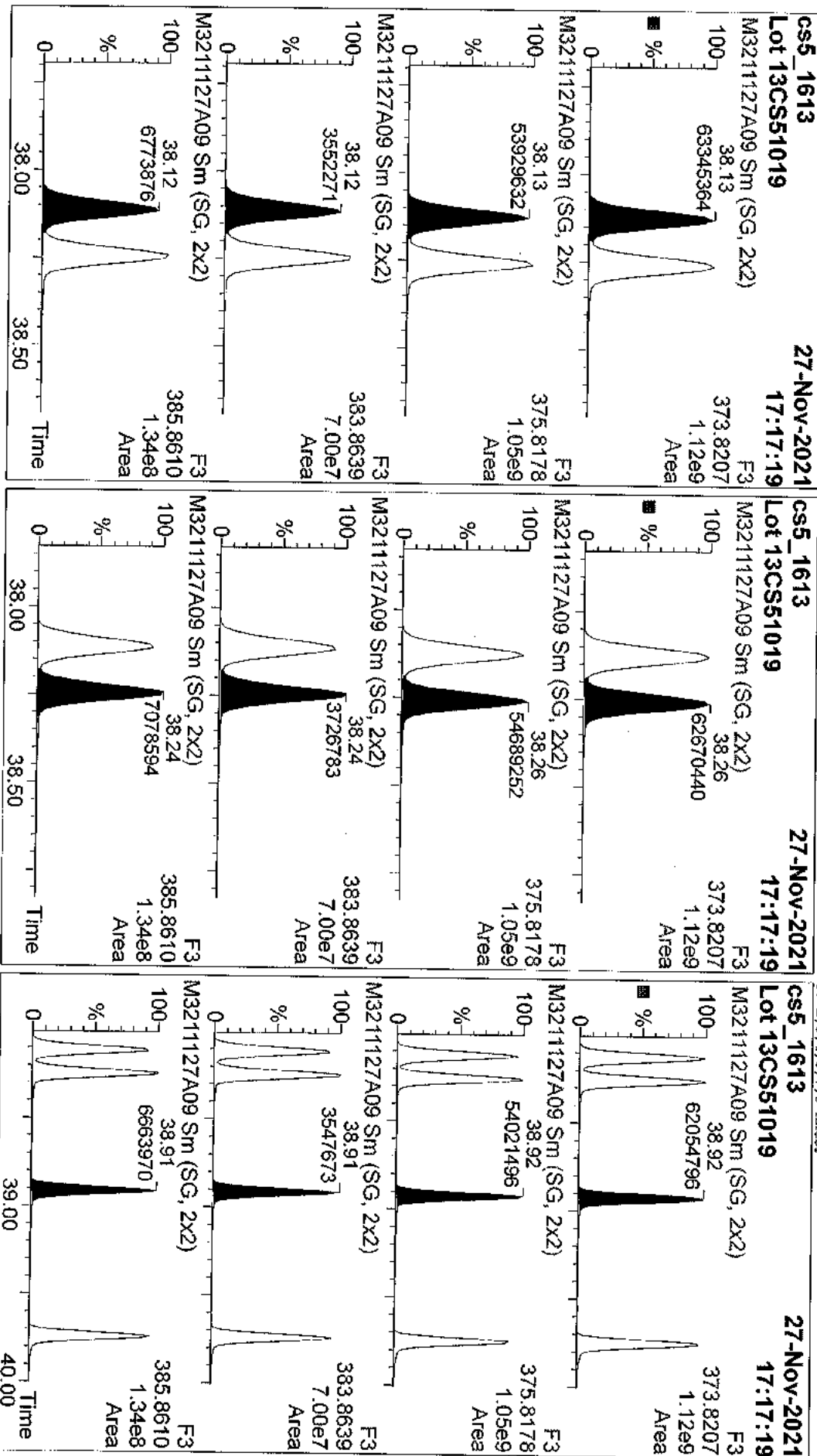
Printed: Mon Nov 29 14:29:45 2021

Name: M321127A09
 Text: cs5_1613

4: 1,2,3,4,7,8-HxCDF

5: 1,2,3,6,7,8-HxCDF

6: 2,3,4,6,7,8-HxCDF



Quantify Sample Report

Sample List: C:\MASSVIEW\Default-pro\SAMPLEDB\M3211027A_1613_CMLT
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSVIEW\Default-pro\METHODS\M3211027A_HC_std6_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211127A09
 Text: cs5_1613

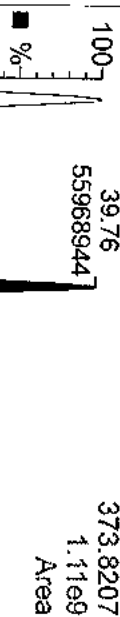
7: 1,2,3,7,9,-HxCDF

8: 1,2,3,4,6,7,8,-HxCDF

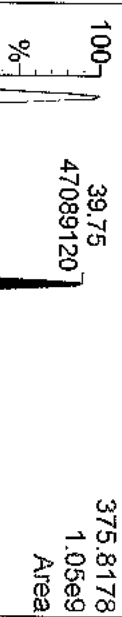
9: 1,2,3,4,7,8,9,-HxCDF

cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

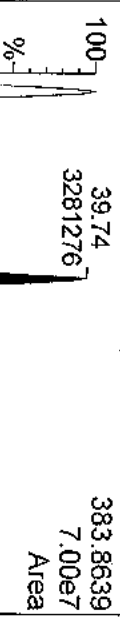
M3211127A09 Sm (SG, 2x2)



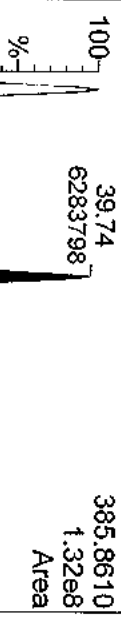
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)

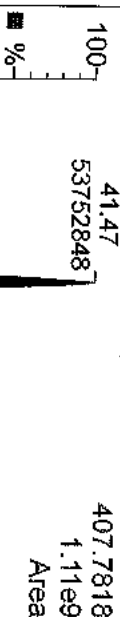


M3211127A09 Sm (SG, 2x2)

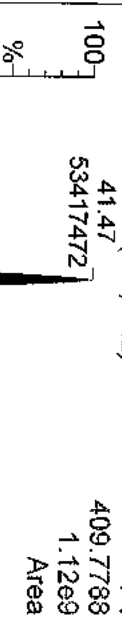


cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

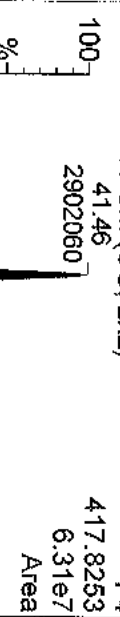
M3211127A09 Sm (SG, 2x2)



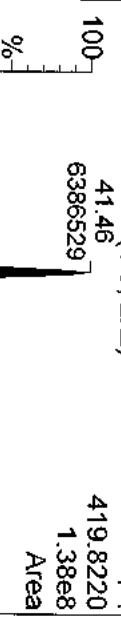
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)

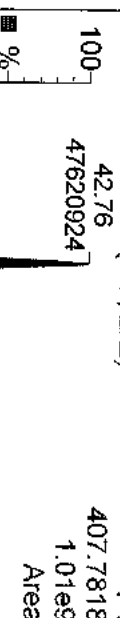


M3211127A09 Sm (SG, 2x2)



cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

M3211127A09 Sm (SG, 2x2)



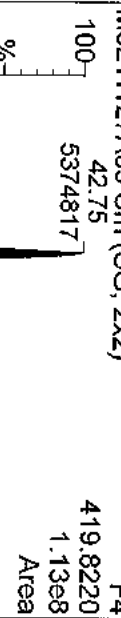
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



Quantify Sample Report

Sample list: C:\MASSVIEW\Default-pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

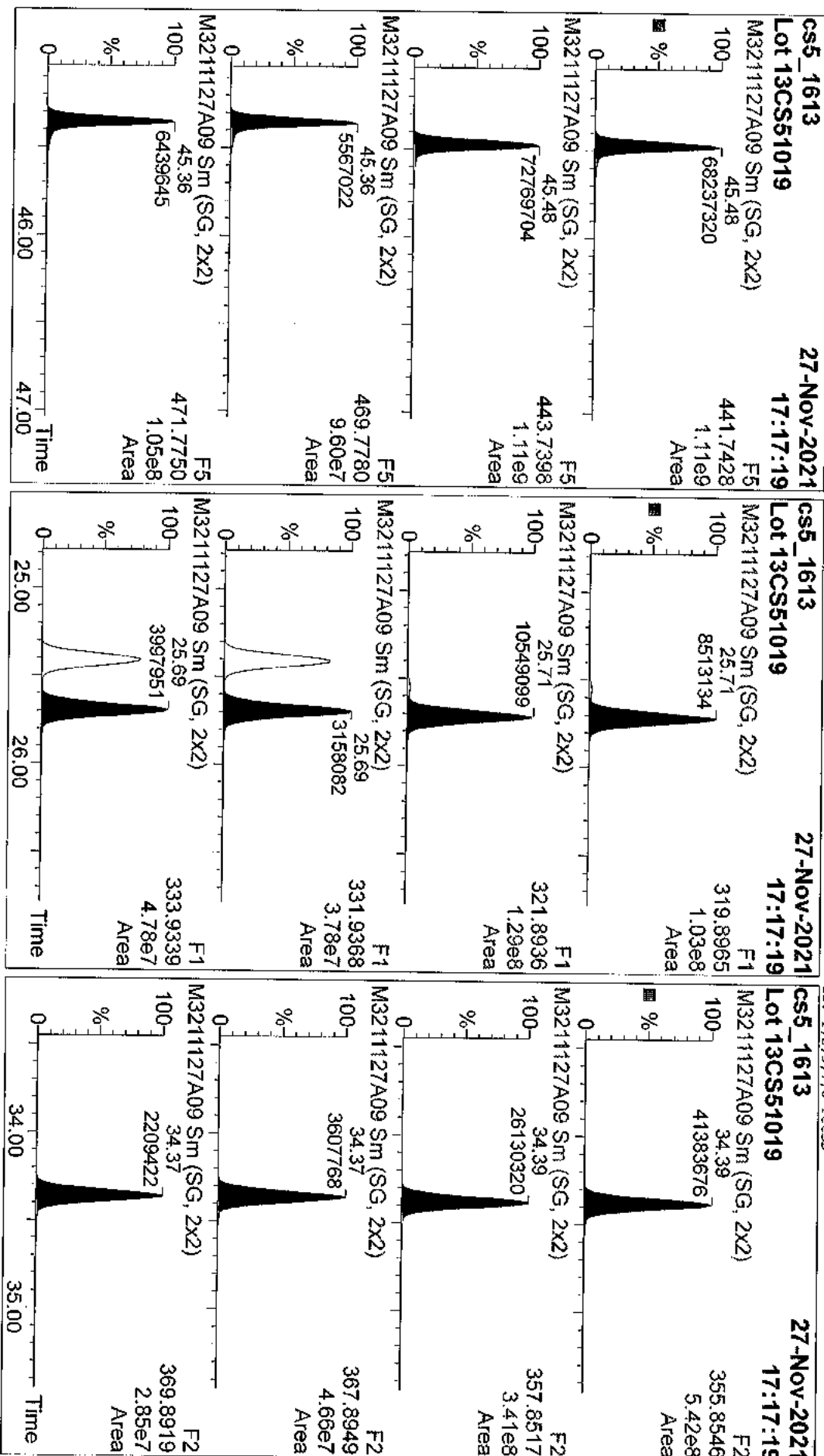
Printed: Mon Nov 29 14:29:45 2021

Name: M321127A09
 Text: cs5_1613

10: OCDF

11: 2,3,7,8-TCDD

12: 1,2,3,7,8-PeCDD



Quantify Sample Report

Sample list: C:\MASSVIEW\Default-pro\SMFLEDR\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M3211127A_HC_stds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211127A09
 Text: cs5_1613

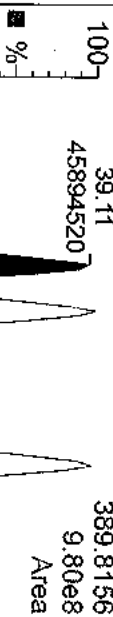
13: 1,2,3,4,7,8-HxCDD

14: 1,2,3,6,7,8-HxCDD

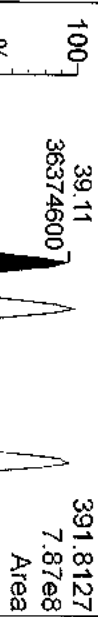
15: 1,2,3,7,8,9-HxCDD

cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

M3211127A09 Sm (SG, 2x2)



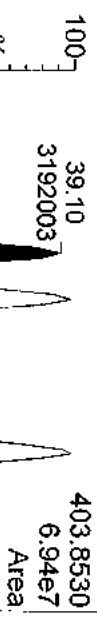
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)

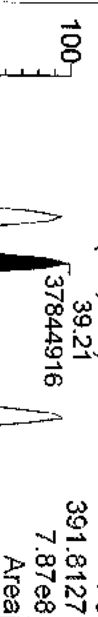


cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

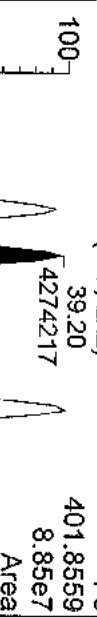
M3211127A09 Sm (SG, 2x2)



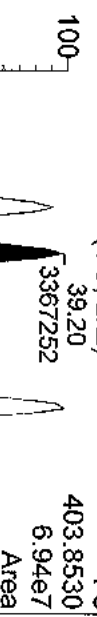
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)

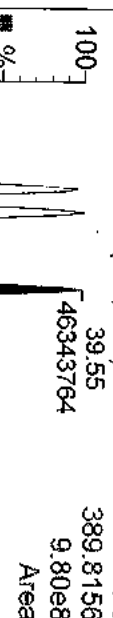


M3211127A09 Sm (SG, 2x2)

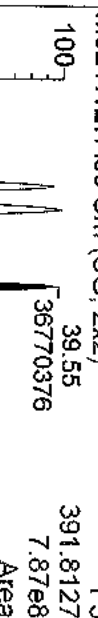


cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

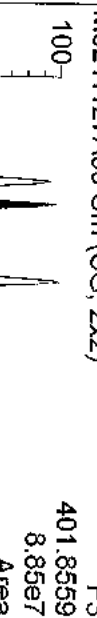
M3211127A09 Sm (SG, 2x2)



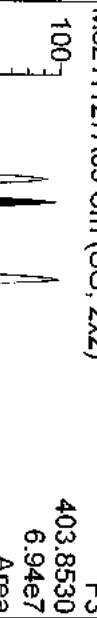
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMPLDDB\M3211027A_1613_CALT
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A09
 Text: cs5_1613

16: 1,2,3,4,6,7,8-HpCDD

17: OCDD

33: 1,3C-1,2,3,4-TCDD

cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

M3211027A09 Sm (SG, 2x2)
 42.41
 39815588
 423.7767
 8.49e8
 Area

M3211027A09 Sm (SG, 2x2)
 42.41
 38084640
 425.7737
 8.21e8
 Area

M3211027A09 Sm (SG, 2x2)
 42.40
 3703545
 435.8169
 7.80e7
 Area

M3211027A09 Sm (SG, 2x2)
 42.40
 3460965
 437.8140
 7.35e7
 Area

cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

M3211027A09 Sm (SG, 2x2)
 45.37
 58501028
 457.7377
 1.03e9
 Area

M3211027A09 Sm (SG, 2x2)
 45.37
 63707764
 459.7348
 1.08e9
 Area

M3211027A09 Sm (SG, 2x2)
 45.36
 5567022
 469.7780
 9.60e7
 Area

M3211027A09 Sm (SG, 2x2)
 45.36
 6439645
 471.7750
 1.05e8
 Area

cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

M3211027A09 Sm (SG, 2x2)
 25.41
 2596178
 331.9368
 3.78e7
 Area

M3211027A09 Sm (SG, 2x2)
 25.41
 3164610
 333.9339
 4.78e7
 Area

M3211027A09 Sm (SG, 2x2)
 25.41
 3164610
 333.9339
 4.78e7
 Area

Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:
 Printed: Mon Nov 29 14:29:45 2021

Name: M321127A09
 Text: cs5_1613

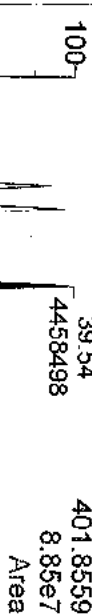
34: 13C-1,2,3,7,8,9-HXCD

35: CL37-2,3,7,8-TCDD

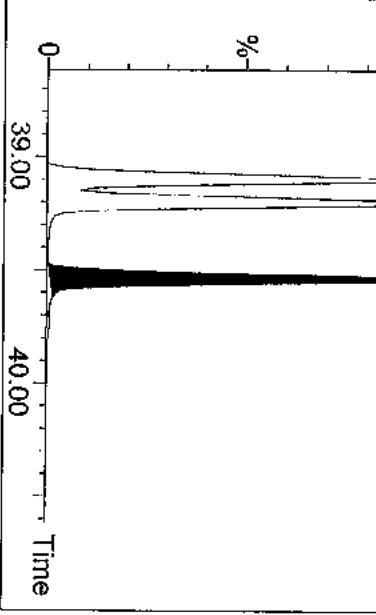
39: Junction 1 Lockmass

cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

M321127A09 Sm (SG, 2x2)

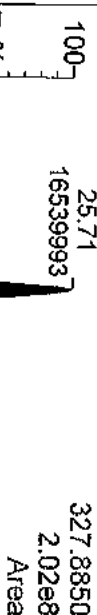


M321127A09 Sm (SG, 2x2)
 39.54
3467115
Area
F3
403.8530
6.94e7



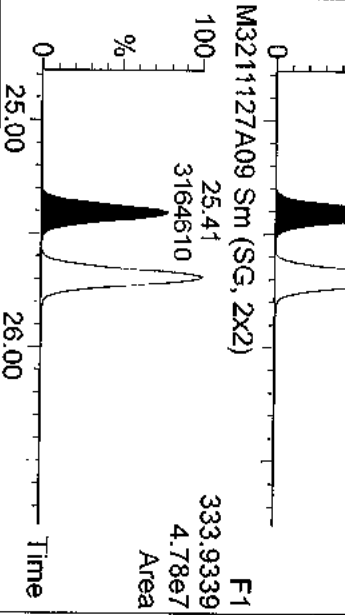
cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

M321127A09 Sm (SG, 2x2)



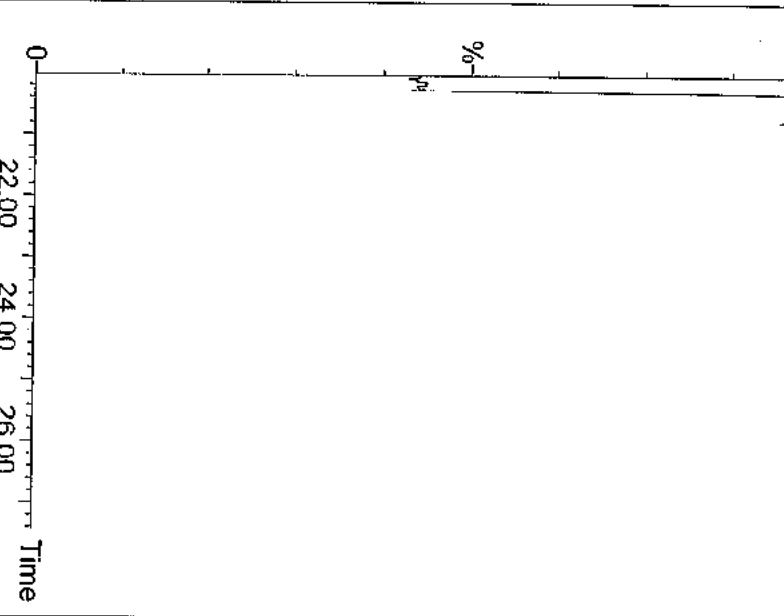
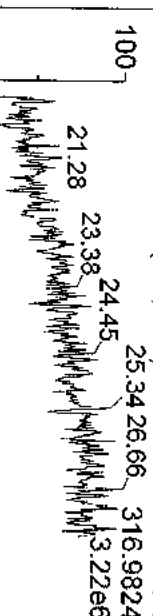
M321127A09 Sm (SG, 2x2)
 25.71
16539993
Area
F1
327.8850
2.02e8

M321127A09 Sm (SG, 2x2)
 25.41
2596178
Area
F1
331.9368
3.78e7



cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

M321127A09 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLTX\Default.pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

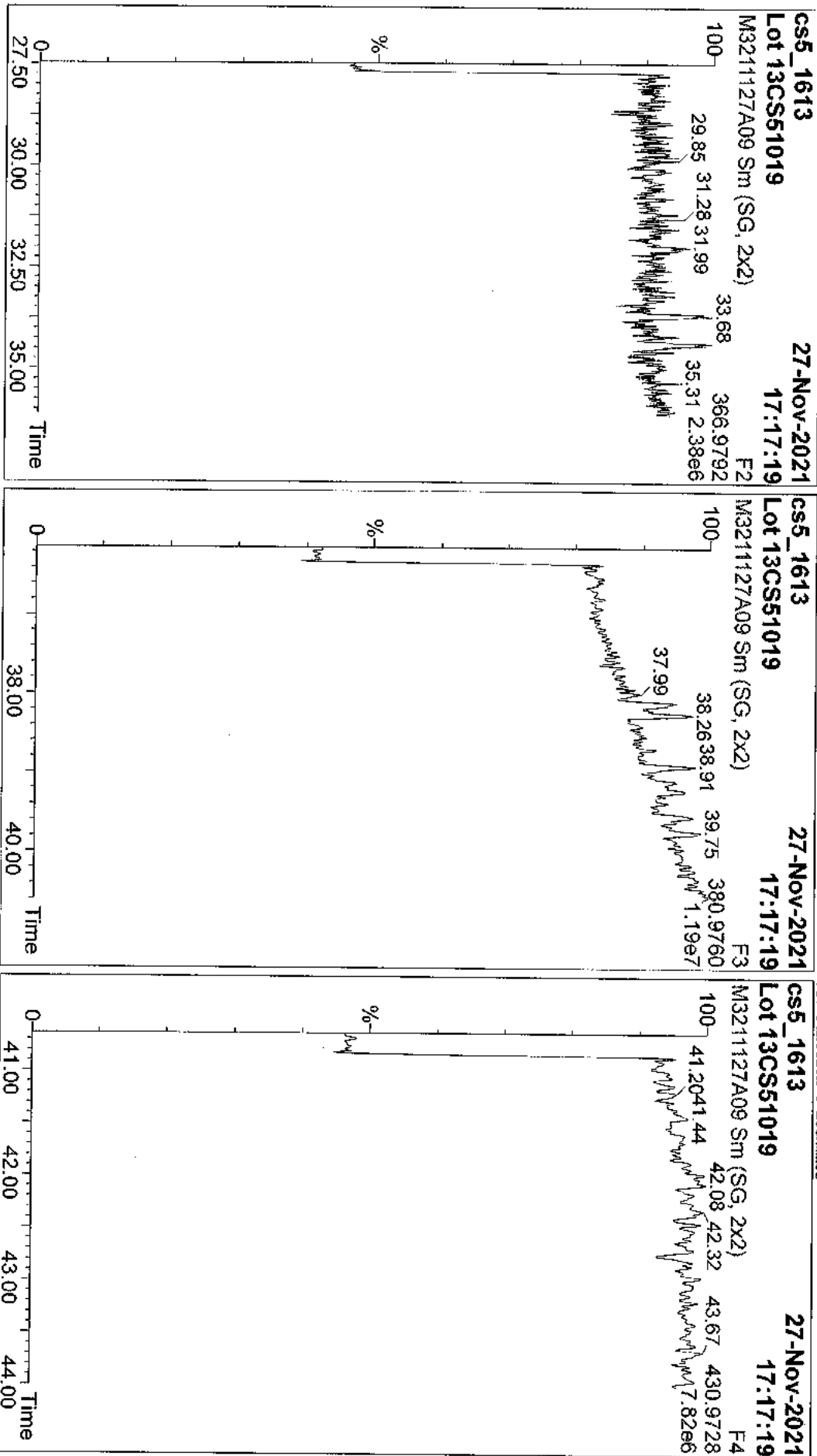
Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A09
 Text: cs5_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass



Quantify Sample Report

Sample List: C:\MSI\XN\Default-pro\SAMPLEDB\M3211027A_1613_CALT
Last modified: Mon Nov 29 13:26:10 2021
Method: C:\MSI\XN\Default-pro\METHOD\M3211027A_HC_std_1613
Last modified: Mon Nov 29 13:05:57 2021
Job Code:

Printed: Mon Nov 29 14:29:45 2021

Name: M3211027A09
Text: cs5_1613

S3: Punction 5 Lockmass

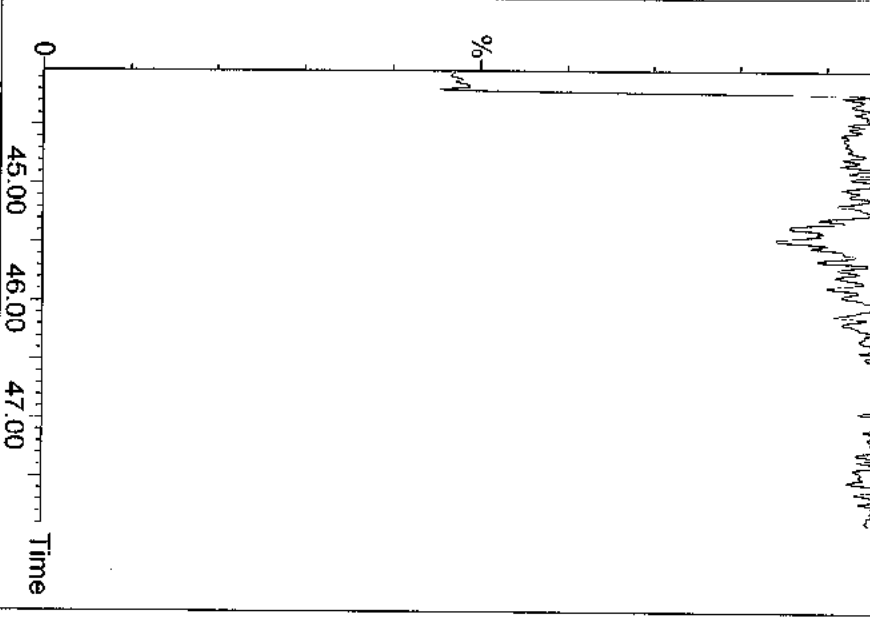
cs5_1613 27-Nov-2021

Lot 13CS51019 17:17:19

M3211027A09 Sm (SG, 2x2) F5

100 44.92 45.24 46.37 46.69 46.91 454.9728

4.95e6



Quantify Sample Summary Report

Sample List: C:\MASSLIX\Default.pro\SAMPLEDB\M3211127A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLIX\Default.pro\METHOD\EPA_1613H_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 14:29:20 2021

Sample Name: M3211127A11 Sample ID: Lot CS3WT1020

# Name	RT	Area	Sec.Area	Abs.Reap	Ion Ratio	RFlag	Response	Flags	pg	%Dev	%Rec	IS#	RRP
1 2,3,7,8-TCDF	24.659	254301	336266	590567	0.76	YES	9.924	bb	10.214	2	102	18	0.992
2 1,2,3,7,8-PeCDF	32.023	129312	833096	2126221	1.55	YES	50.292	db	51.346	3	103	19	1.006
3 2,3,4,7,8-PeCDF	33.674	1380122	887017	2267139	1.56	YES	55.462	db	50.894	2	102	20	1.109
4 1,2,3,4,7,8-HxCDF	38.127	1343124	1081184	2424307	1.24	YES	59.866	bd	51.631	3	103	21	1.197
5 1,2,3,6,7,8-HxCDF	38.262	1417667	1089254	2506921	1.30	YES	59.140	dd	54.027	8	108	22	1.183
6 2,3,4,6,7,8-HxCDF	38.932	1370293	1090731	2461024	1.26	YES	60.859	bb	51.725	3	103	23	1.127
7 1,2,3,7,8,9-HxCDF	39.757	1201695	965317	2167012	1.25	YES	56.179	bb	51.196	2	102	24	1.124
8 1,2,3,4,6,7,8-HpCDF	41.478	1228280	1196204	2424484	1.03	YES	62.291	bb	51.550	3	103	25	1.246
9 1,2,3,4,7,8,9-HpCDF	42.767	973059	935821	1908880	1.04	YES	60.085	bb	51.048	2	102	26	1.202
10 OCDF	45.465	1301490	1462736	2764226	0.89	YES	124.411	bb	100.340	0	100	27	1.204
11 2,3,7,8-TCDD	25.723	179039	224332	403371	0.80	YES	12.043	dd	9.705	-3	97	27	1.244
12 1,2,3,7,8-PeCDD	34.386	755495	469823	1225518	1.61	YES	56.581	bb	50.688	1	101	28	1.132
13 1,2,3,4,7,8-HxCDD	39.118	878121	684148	1562269	1.28	YES	57.419	bd	51.661	3	103	29	1.148
14 1,2,3,6,7,8-HxCDD	39.221	913368	726831	1640199	1.26	YES	56.668	bb	50.612	1	101	30	1.133
15 1,2,3,7,8,9-HxCDD	39.551	895627	716373	1612001	1.25	YES	55.693	bb	50.933	2	102	30	1.114
16 1,2,3,4,6,7,8-HpCDD	42.416	797537	758203	1555740	1.05	YES	54.844	bb	50.558	1	101	31	1.097
17 OCDD	45.358	1070360	1207067	2277427	0.89	YES	102.502	bb	97.203	-3	97	32	1.025
18 13C-2,3,7,8-TCDF	22.637	2614938	3336153	5951091	0.78	YES	209.161	bb	97.530	2	102	33	1.277
19 13C-1,2,3,7,8-PeCDF	31.992	2591537	1636215	4227752	1.58	YES	148.591	db	94.202	-6	94	33	1.486
20 13C-2,3,4,7,8-PeCDF	33.643	2524819	1562924	4087743	1.62	YES	143.670	bb	93.636	-5	94	33	1.437
21 13C-1,2,3,4,7,8-HxCDF	38.117	1403530	2646038	4049568	0.53	YES	134.064	bd	100.591	1	101	34	1.341
22 13C-2,3,4,6,7,8-HxCDF	38.251	1463665	2775273	4238938	0.53	YES	140.334	bb	97.787	-2	98	34	1.403
23 13C-1,2,3,7,8-HxCDF	38.911	1400804	2642987	4043791	0.53	YES	127.701	bb	100.026	0	100	34	1.339
24 13C-1,2,3,4,6,7,8-HpCDF	39.717	1326923	2530439	3852362	0.45	YES	128.855	bb	101.752	2	102	34	1.289
25 13C-2,3,4,6,7,8-HpCDF	41.467	1212703	2675500	3892203	0.52	YES	105.177	bb	98.919	-1	99	34	1.052
26 13C-1,2,3,4,7,8,9-HpCDF	42.757	989330	2187659	3176989	0.81	YES	117.718	bb	101.565	2	102	33	1.177
27 13C-2,3,7,8-TCDD	25.701	1503373	1845954	3349328	1.63	YES	76.113	bb	92.647	-7	93	33	0.901
28 13C-1,2,3,7,8-PeCDD	34.365	1342768	822817	2165585	1.28	YES	90.076	bd	98.894	-1	99	34	0.958
29 13C-2,3,4,7,8-PeCDD	39.097	1525996	1194845	2720841	1.05	YES	95.822	db	100.680	1	101	34	0.939
30 13C-1,2,3,4,7,8-HxCDD	39.200	1627524	1266897	2894421	1.28	YES	93.910	bb	99.741	-0	100	34	0.736
31 13C-2,3,4,6,7,8-HxCDD	42.406	1452097	1384575	283672	0.91	YES	147.112	bb	194.958	-3	97	34	0.939
32 13C-1,2,3,4,6,7,8-HpCDD	45.347	2114309	1384575	4443687	0.79	YES	2845222	bb	56.822	-43	57	33	2.454
33 13C-1,2,3,4-TCDD	25.416	1253931	1591291	2845222	1.27	YES	3020612.250	bb	56.822	-43	57	33	2.454
34 13C-1,2,3,7,8,9-HxCDD	39.541	1688642	1331970	3020612	1.00	YES	24.542	bb	9.747	-3	97	33	2.454
35 C137-2,3,7,8-TCDD	25.723	349133	349133	698267	1.00	YES	24.542	bb	9.747	-3	97	33	2.454
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	32.323	-	-	18	-
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	44.872	-	-	18	-
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	226.860	-	-	27	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	201.910	-	-	28	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	257.997	-	-	30	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	202.337	-	-	30	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	103.193	-	-	0	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	108.785	-	-	31	-

5 Pds.

Quantity Sample Report

Sample List: C:\MASSVIEW\Default-pro\SAMPLES\M3211027A_1613_CALI
 Last Modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSVIEW\Default-pro\METHODS\M3211027A_HC_std_1613
 Last Modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:31:23 2021

Name: M3211027A11
 Text: db5_wln_perf/CS3

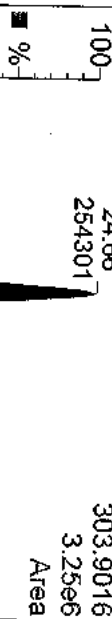
1: 2,3,7,8-TCDF

2: 2,2,3,7,8-PeCDF

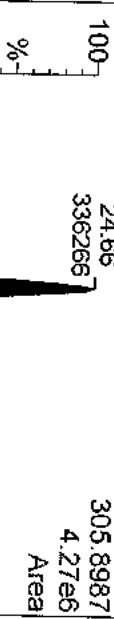
3: 2,3,4,7,8-PeCDF

db5_wln_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211027A11 Sm (SG, 2x2)
 24.66
 254301
 303.9016
 3.25e6
 Area



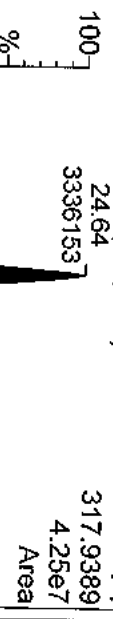
M3211027A11 Sm (SG, 2x2)
 24.66
 336266
 305.8987
 4.27e6
 Area



M3211027A11 Sm (SG, 2x2)
 24.64
 2614938
 315.9419
 3.35e7
 Area

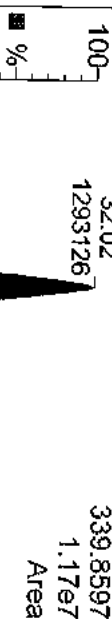


M3211027A11 Sm (SG, 2x2)
 24.64
 3336153
 317.9389
 4.25e7
 Area

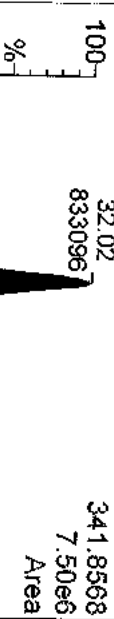


db5_wln_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211027A11 Sm (SG, 2x2)
 32.02
 1293126
 339.8597
 1.17e7
 Area



M3211027A11 Sm (SG, 2x2)
 32.02
 833096
 341.8568
 7.50e6
 Area



M3211027A11 Sm (SG, 2x2)
 31.99
 2591537
 351.9000
 2.31e7
 Area

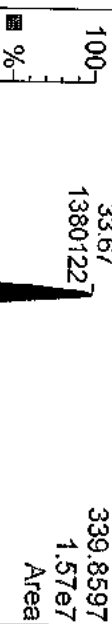


M3211027A11 Sm (SG, 2x2)
 31.99
 1636215
 353.8970
 1.45e7
 Area

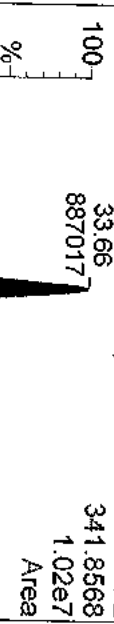


db5_wln_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

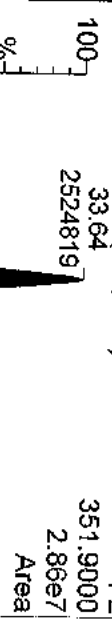
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 33.67
 1380122
 339.8597
 1.57e7
 Area



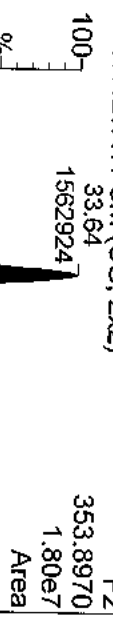
M3211027A11 Sm (SG, 2x2)
 33.66
 887017
 341.8568
 1.02e7
 Area



M3211027A11 Sm (SG, 2x2)
 33.64
 2524819
 351.9000
 2.86e7
 Area



M3211027A11 Sm (SG, 2x2)
 33.64
 1562924
 353.8970
 1.80e7
 Area



Quantify Sample Report

Sample List: C:\MASSLYNK\Default-pro\SAMPLEEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLYNK\Default-pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:31:23 2021

Name: M3211127A11
 Text: db5_win_perf/CS3

4: 1,2,3,4,7,8-HxCDF

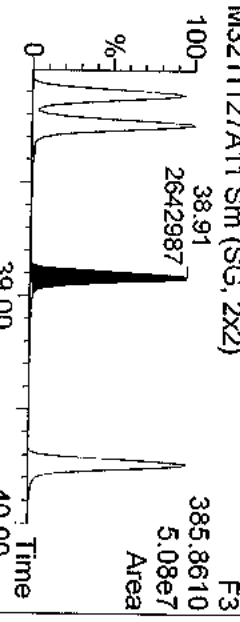
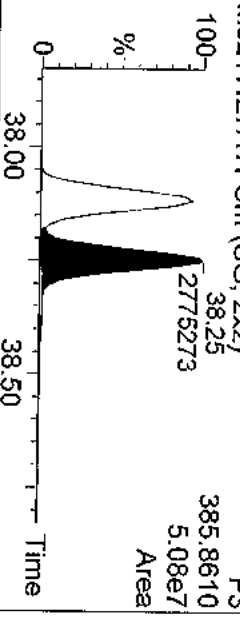
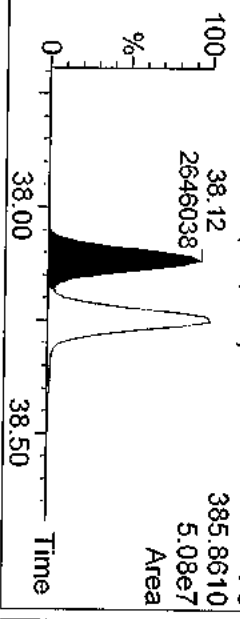
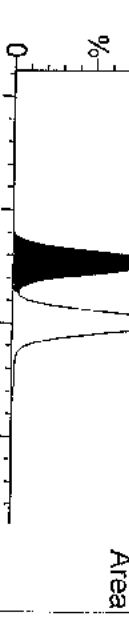
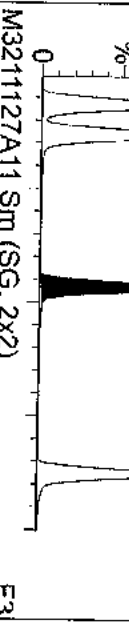
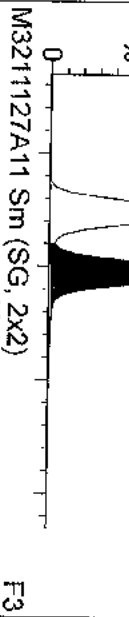
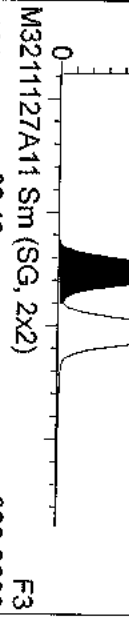
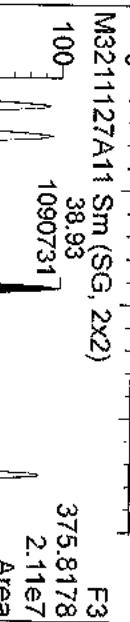
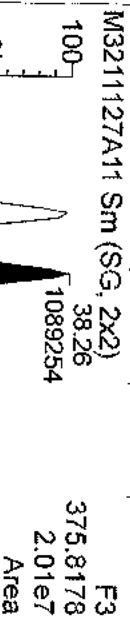
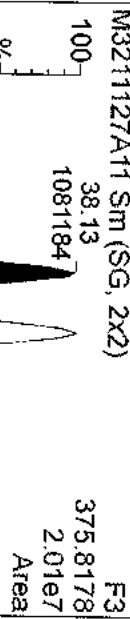
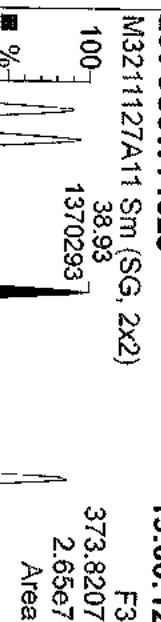
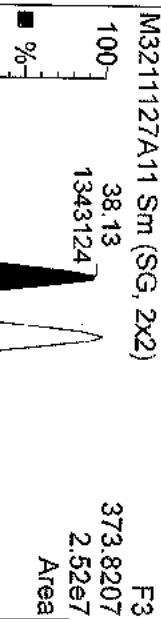
5: 1,2,3,6,7,8-HxCDF

6: 2,3,4,6,7,8-HxCDF

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12



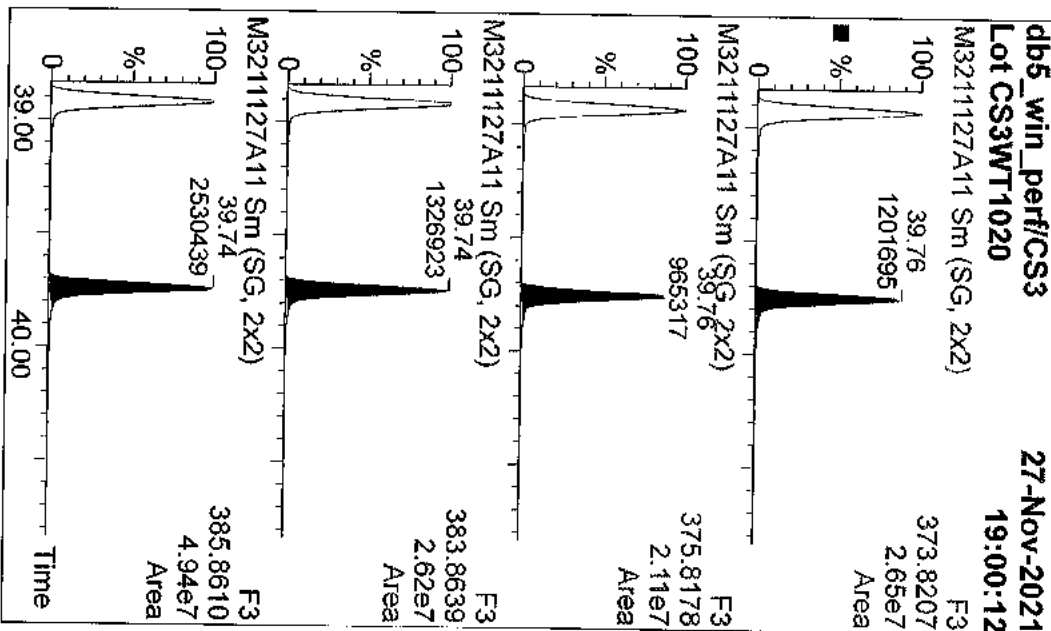
Quantify Sample Report

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 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

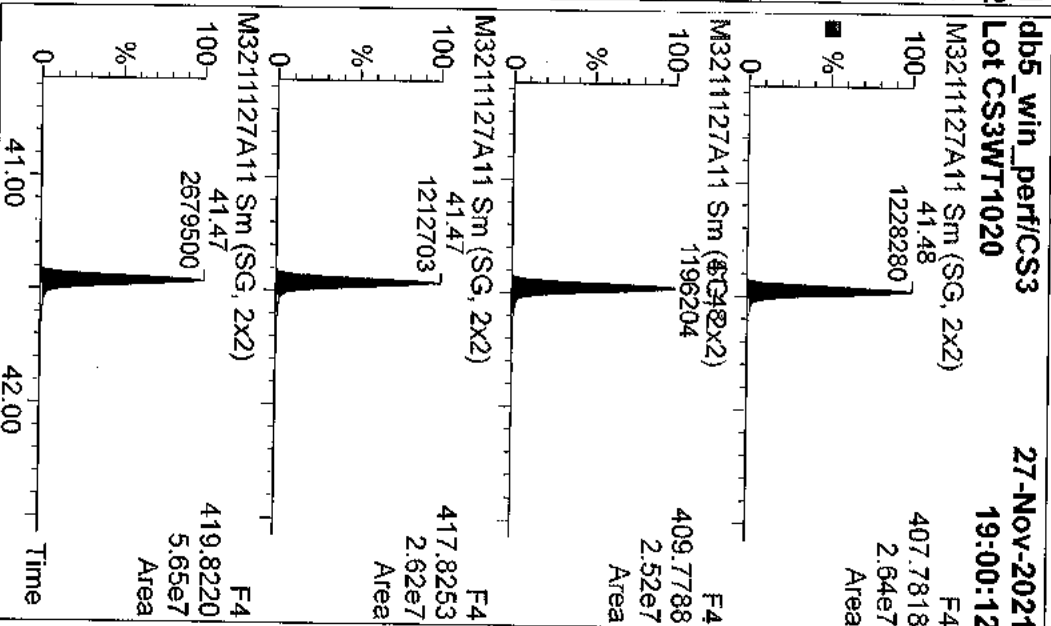
Printed: Mon Nov 29 14:31:23 2021

Name: M3211127A1
 Text: db5_win_perf/CS3

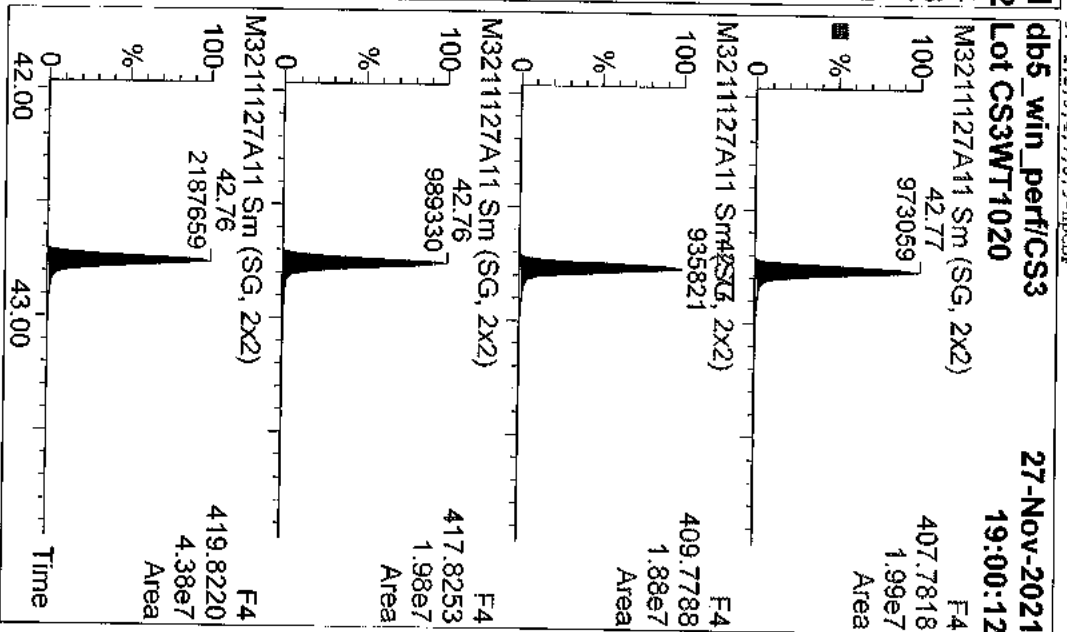
7: 1,2,3,7,8,9-HxCDF



8: 1,2,3,4,6,7,8-HxCDF



9: 1,2,3,4,7,8,9-HxCDF



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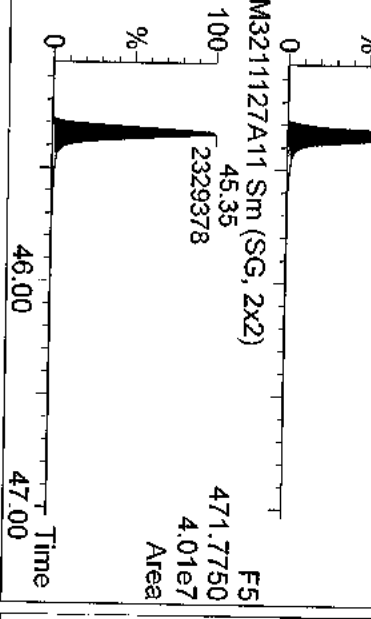
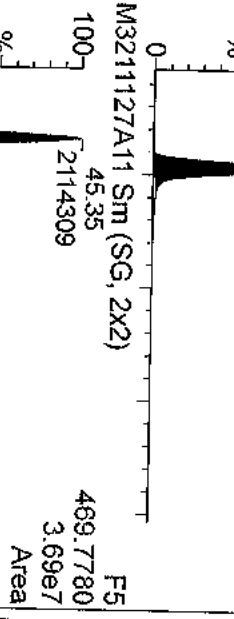
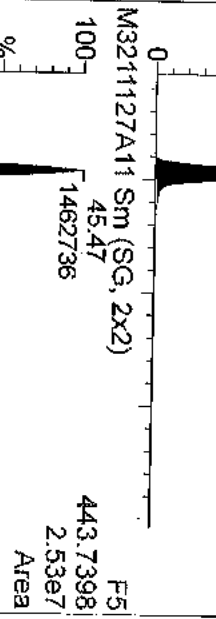
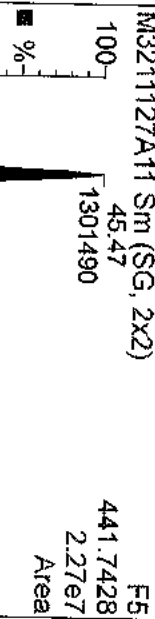
Sample List: C:\MSSTXRX\Default.pro\SAMPLEDS\M3211027A_1613_CMT1
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Method: C:\MSSTXRX\Default.pro\METHOD\M3211127A_HC.ecdc_1613
Last modified: Mon Nov 29 13:05:57 2021
Job Code:

Printed: Mon Nov 29 14:31:23 2021

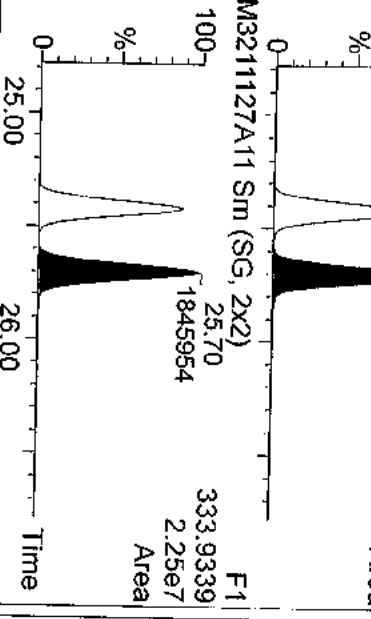
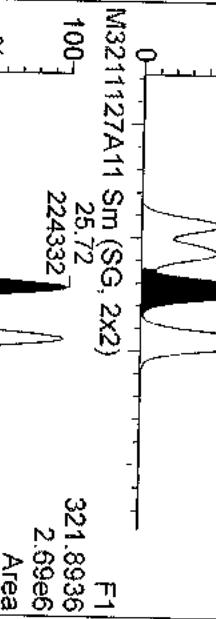
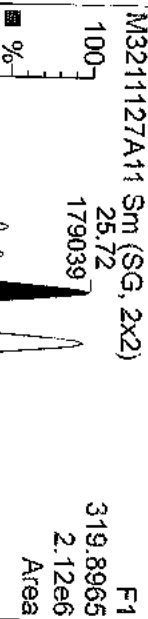
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Name: M3211127A1
Text: d05_win_perf/CS3
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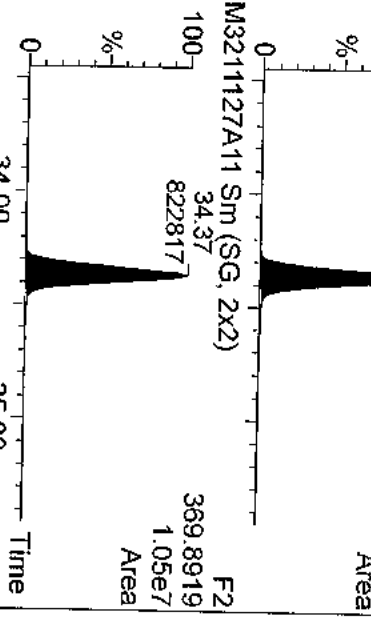
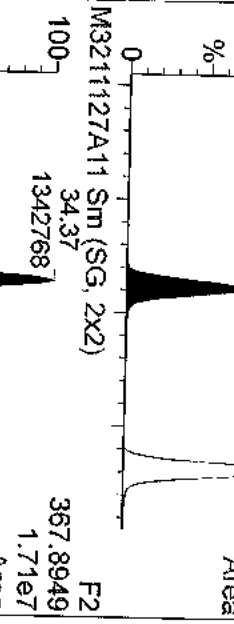
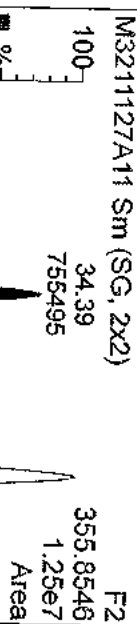
db5_win_perf/CS3
Lot CS3WT1020
27-Nov-2021
19:00:12



db5_win_perf/CS3
Lot CS3WT1020
27-Nov-2021
19:00:12



db5_win_perf/CS3
Lot CS3WT1020
27-Nov-2021
19:00:12



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SMPLFEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:25:10 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:31:23 2021

Name: M3211027A11
 Text: db5_win_perf/CS3

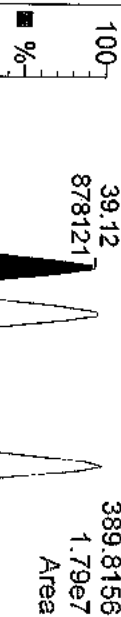
13: 1,2,3,4,7,8-HxCDD

14: 1,2,3,5,6,7,8-HxCDD

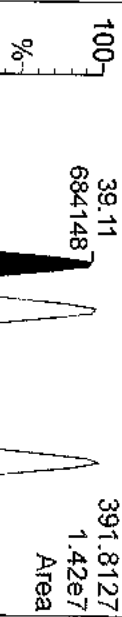
15: 1,2,3,7,8,9-HxCDD

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211027A11 Sm (SG, 2x2)



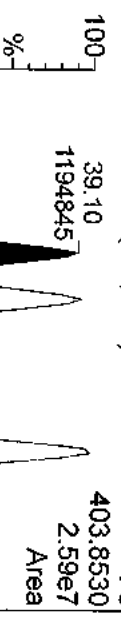
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

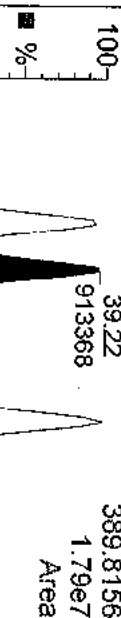


M3211027A11 Sm (SG, 2x2)

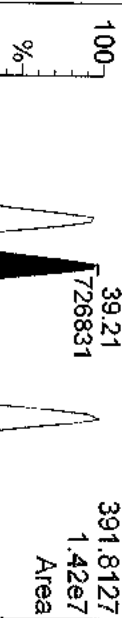


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211027A11 Sm (SG, 2x2)



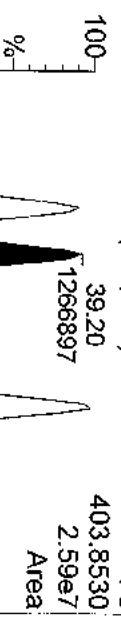
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

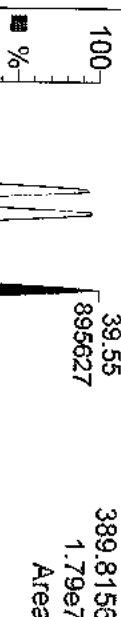


M3211027A11 Sm (SG, 2x2)

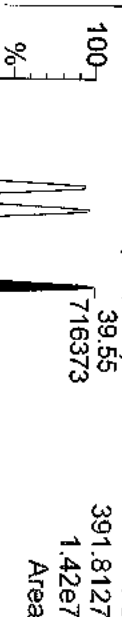


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

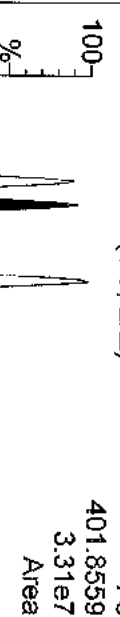
M3211027A11 Sm (SG, 2x2)



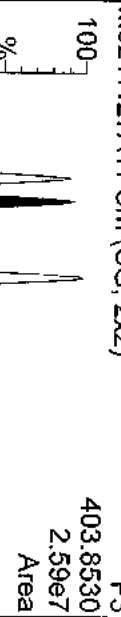
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CAL1
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M3211027A_HC_stdg_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:31:23 2021

Name: M3211027A11
 Text: db5_win_perf/CS3

16: 1,2,3,4,5,7,8-HPCDD

17: OCDD

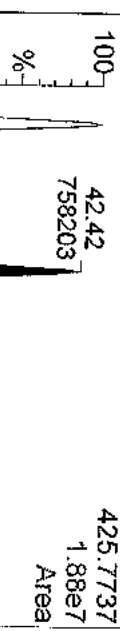
33: 1,3C-1,2,3,4-TCDD

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211027A11 Sm (SG, 2x2)



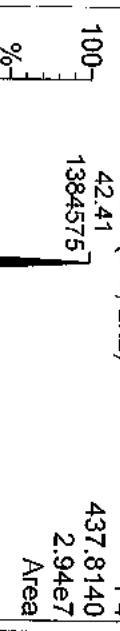
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

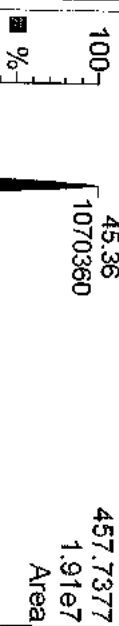


M3211027A11 Sm (SG, 2x2)

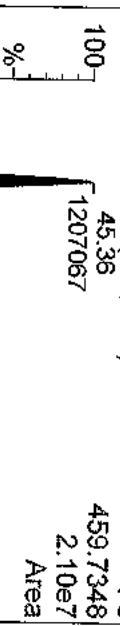


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

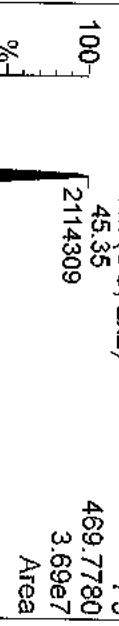
M3211027A11 Sm (SG, 2x2)



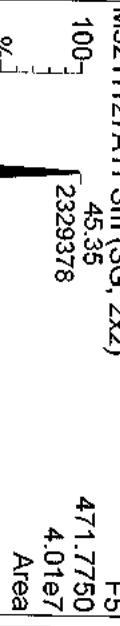
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

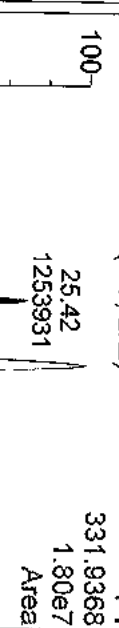


M3211027A11 Sm (SG, 2x2)

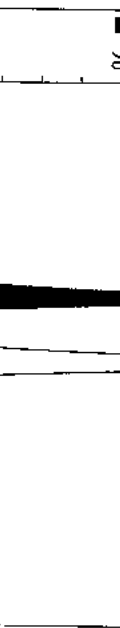


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

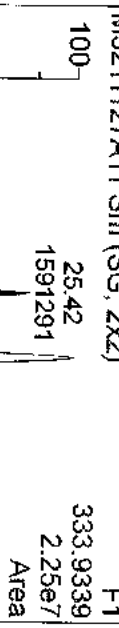
M3211027A11 Sm (SG, 2x2)



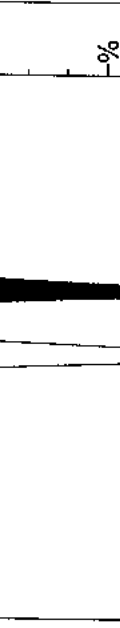
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

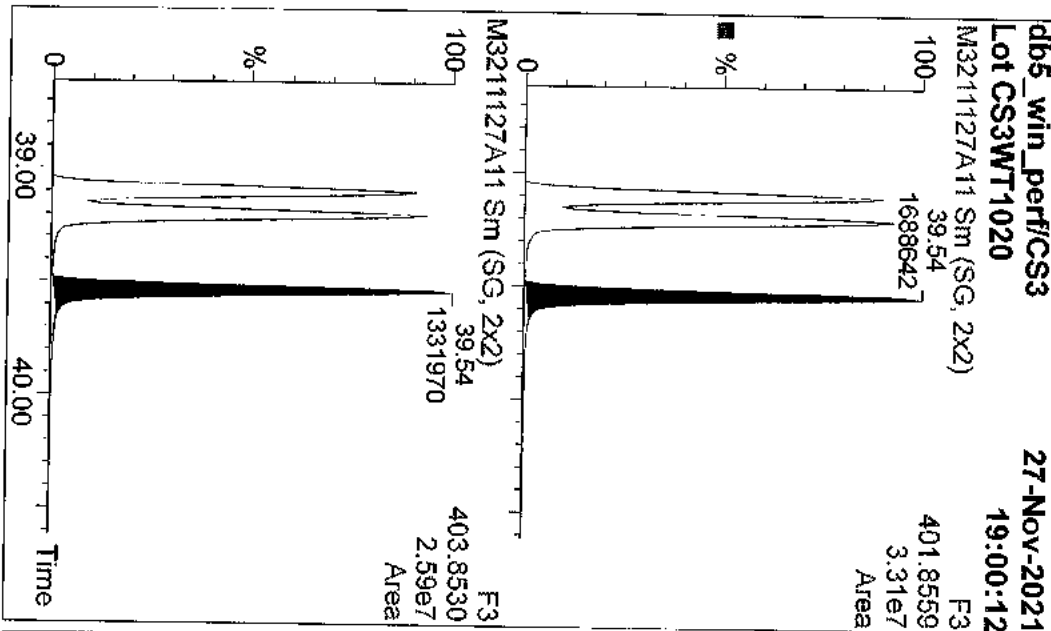


Quantify Sample Report

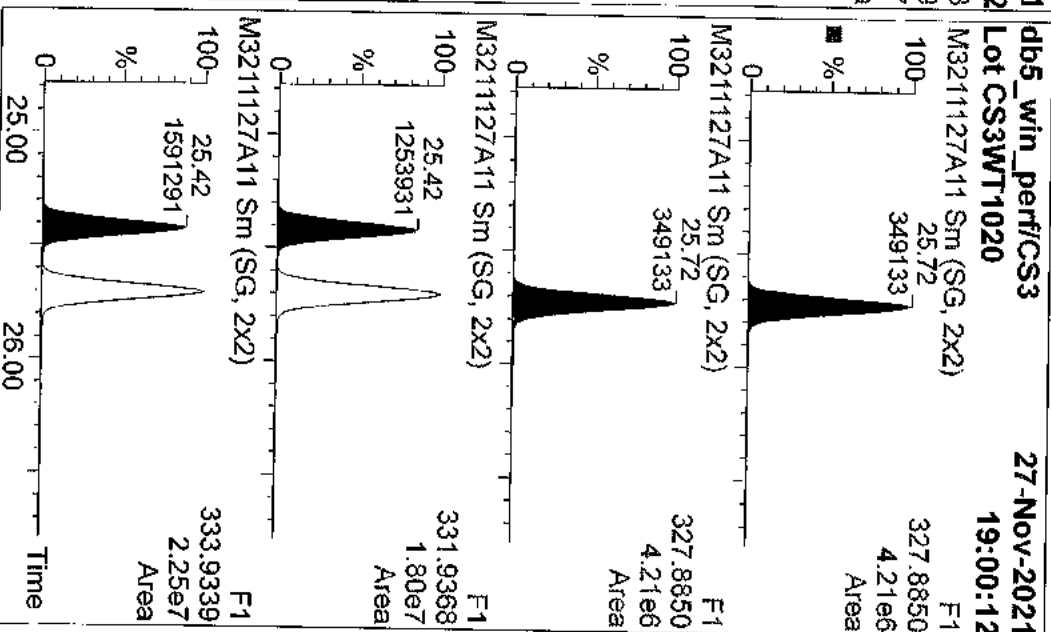
Sample List: C:\MSDCHEM\Default.pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M3211027A_EC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:
 Printed: Mon Nov 29 14:31:23 2021

Name: M3211027A11
 Text: db5_win_perf/CS3

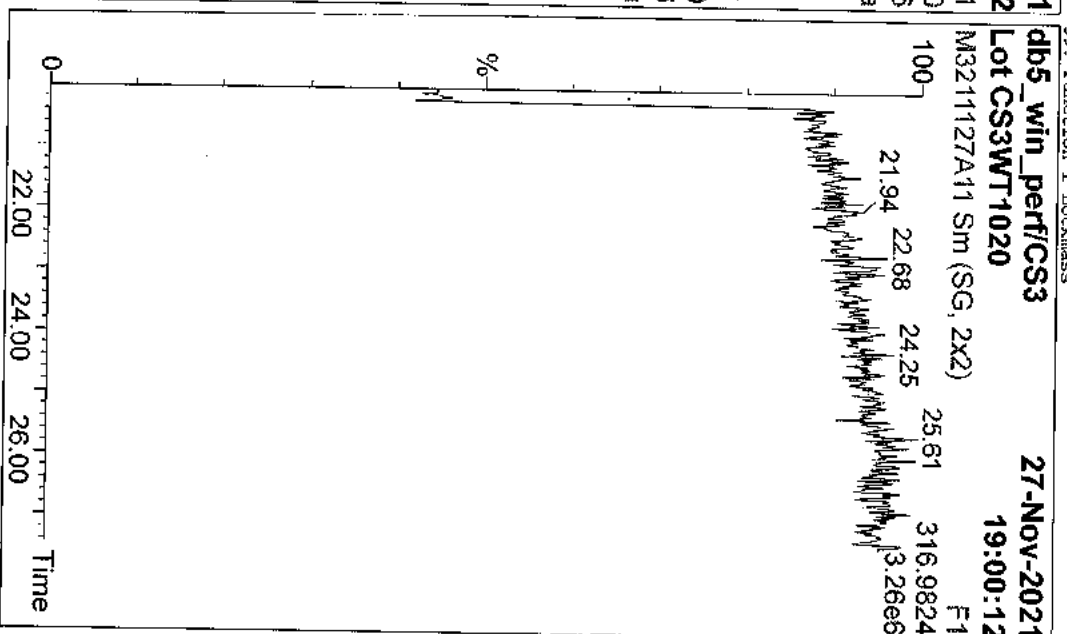
34: 13C-1,2,3,7,8,9-HXCD



35: C137-2,3,7,8-TCDD



39: Function 1 Lockmass



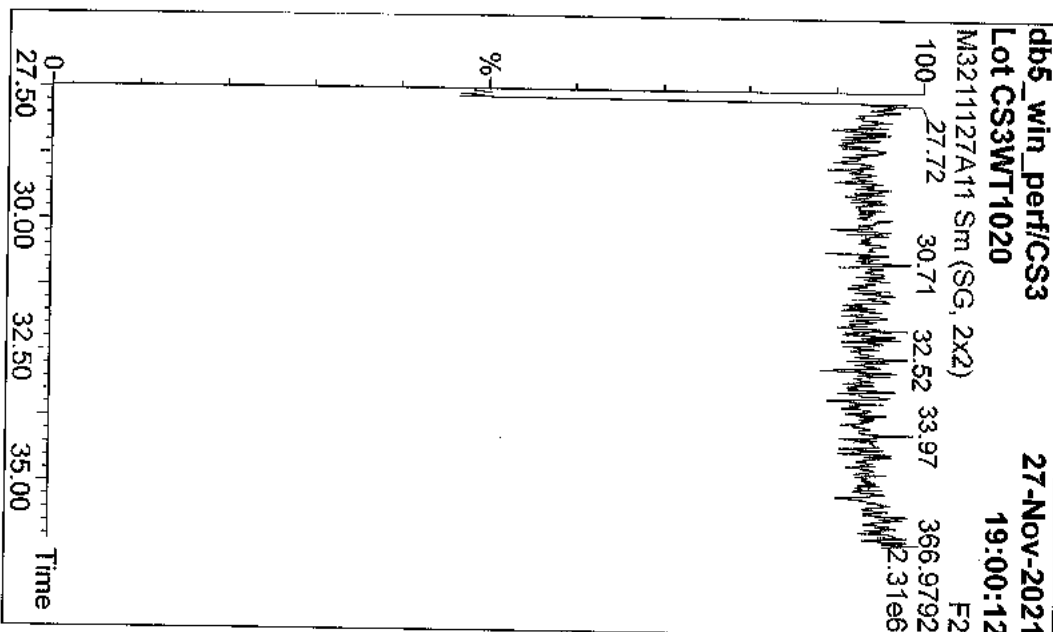
Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M321127A_1613_CALI
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 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_RC_secs_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

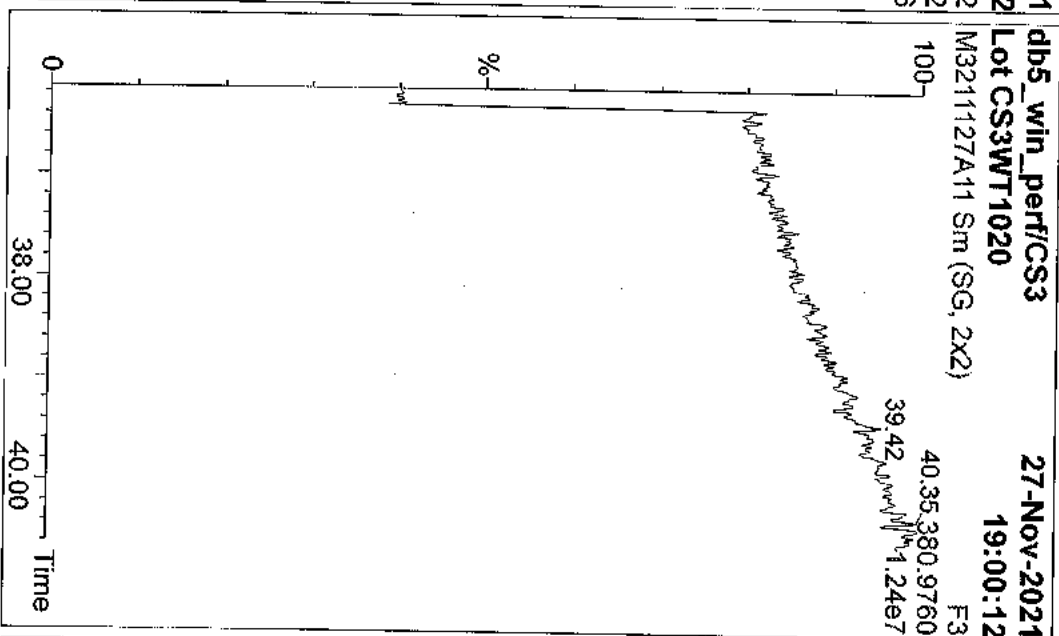
Printed: Mon Nov 29 14:31:23 2021

Name: M321127A1
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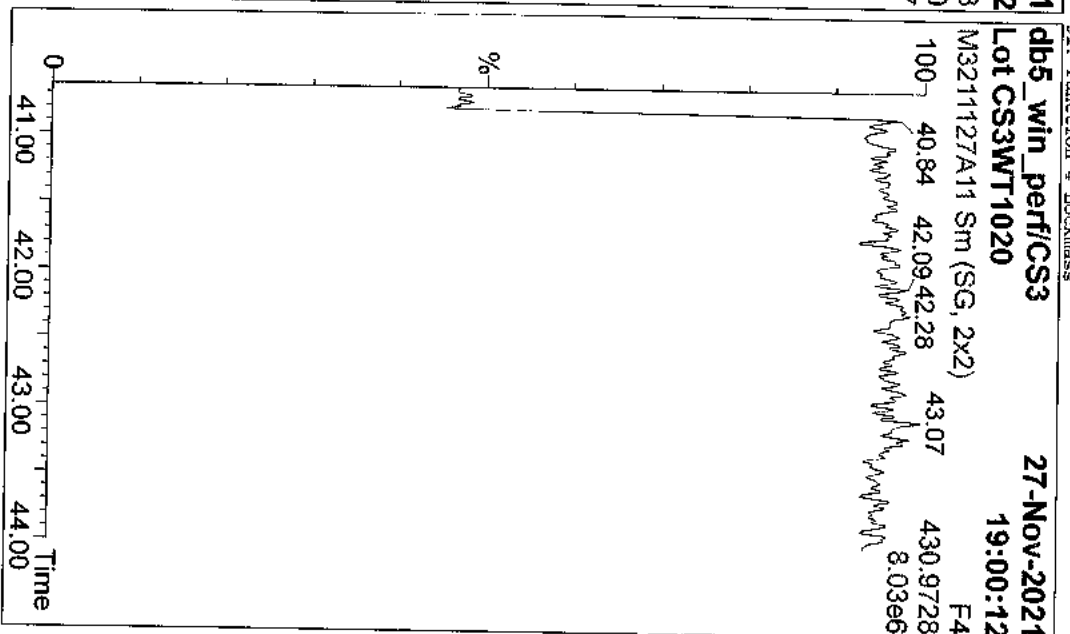
43: Function 2 Lockmass



47: Function 3 Lockmass



51: Function 4 Lockmass



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 13:26:10 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211027A_HC_stdg_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 14:31:23 2021

Name: M3211027A11
 Text: db5_wtn_perf/CS3

S3: Function 5 Lockmass

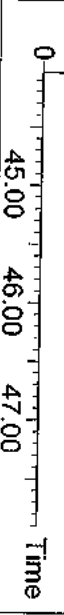
db5_wtn_perf/CS3 27-Nov-2021

Lot CS3WT1020 19:00:12

M3211027A11 Sm (SG, 2X2) F5

100 44.90 45.97 46.88 47.25 464.9728

4.85e6



EPA Method 1613 Calibration

Areas	File	CSL	CS1	CS2	CS3	CS4	CS5
2,3,7,8-TCDF	M3211127A04	7282	37563	143268	983518	4448529	26277885
1,2,3,7,8-PeCDF		26214	139537	499650	3484254	16432032	107104780
2,3,4,7,8-PeCDF		28424	148242	537470	3745547	17711922	119117220
1,2,3,4,7,8-HxCDF		32136	171077	544980	3828047	18469649	117274996
1,2,3,6,7,8-HxCDF		32960	174063	561785	3916616	18641388	117359692
2,3,4,6,7,8-HxCDF		33058	174356	572789	3938761	18588428	116076292
1,2,3,7,8,9-HxCDF		30047	151868	488842	3477666	16049672	103058064
1,2,3,4,6,7,8-HpCDF		33483	172066	552333	3942697	18223693	107170320
1,2,3,4,7,8,9-HpCDF		25607	134310	450670	3127376	15084287	93720260
OCDF		35218	197586	671281	4611199	23118717	141007024
2,3,7,8-TCDD		4912	25421	96996	652178	3123345	19062233
1,2,3,7,8-PeCDD		14707	81007	289185	2015521	9751408	67513996
1,2,3,4,7,8-HxCDD		20749	106230	354726	2508764	11984194	82269120
1,2,3,6,7,8-HxCDD		21685	116270	371167	2621926	12502493	85271240
1,2,3,7,8,9-HxCDD		20115	111110	367794	2563841	12294248	83114140
1,2,3,4,6,7,8-HpCDD		20562	112665	364256	2534016	12039712	77900228
OCDD		31051	173041	578684	3917365	18608857	122208792
13C-2,3,7,8-TCDF		7595496	8413752	7666424	9780894	11025482	12925216
13C-1,2,3,7,8-PeCDF		5809306	6089319	5225090	6944073	8135199	10593702
13C-2,3,4,7,8-PeCDF		5863993	5823551	4997472	6706423	7908757	10651581
13C-1,2,3,4,7,8-HxCDF		5932531	6011788	4800457	6389482	7760819	10326147
13C-1,2,3,6,7,8-HxCDF		6452160	6622997	5097268	6913561	8467972	10805376
13C-2,3,4,6,7,8-HxCDF		5847508	6076966	4819452	6547081	7701204	10211643
13C-1,2,3,7,8,9-HxCDF		5471105	5751149	4439731	6182975	7121236	9565074
13C-1,2,3,4,6,7,8-HpCDF		5661285	5898280	4550651	6270867	7289770	9288589
13C-1,2,3,4,7,8,9-HpCDF		4411844	4818309	3971829	5192187	6150307	7780981
13C-2,3,7,8-TCDD		3926495	4496329	4357635	5039933	5848240	7156032
13C-1,2,3,7,8-PeCDD		2873697	3056445	2675101	3537465	4276898	5817189
13C-1,2,3,4,7,8-HxCDD		3940222	4022185	3251856	4419646	5200181	7329608
13C-1,2,3,6,7,8-HxCDD		4062126	4285833	3337884	4566627	5498505	7641469
13C-1,2,3,4,6,7,8-HpCDD		4068450	4246653	3386524	4603980	5478124	7164509
13C-OCDD		6238949	6751797	5623862	7000884	8603342	1200667
13C-1,2,3,4-TCDD		3636305	3915282	3660248	4526958	5312932	5760788
13C-1,2,3,7,8,9-HxCDD		4251683	4427210	3546086	4830288	5850448	7925612
37Cl-2,3,7,8-TCDD		8187	46260	164973	1163734	5379100	33079986

EPA Method 1613 Calibration

	M3211127A04	M3211127A05	M3211127A06	M3211127A07	M3211127A08	M3211127A09	Mean RRF	RRF SD	%RSD
2,3,7,8-TCDF	0.959	0.893	0.934	1.006	1.009	1.017	0.969	0.050	5.1%
1,2,3,7,8-PeCDF	0.902	0.917	0.956	1.004	1.010	1.011	0.967	0.049	5.1%
2,3,4,7,8-PeCDF	0.969	1.018	1.075	1.117	1.120	1.118	1.070	0.063	5.9%
1,2,3,4,7,8-HxCDF	1.083	1.138	1.135	1.198	1.190	1.136	1.147	0.042	3.7%
1,2,3,6,7,8-HxCDF	1.022	1.051	1.102	1.133	1.101	1.086	1.082	0.040	3.7%
2,3,4,6,7,8-HxCDF	1.131	1.148	1.188	1.203	1.207	1.137	1.169	0.034	3.0%
1,2,3,7,8,9-HxCDF	1.098	1.056	1.101	1.125	1.127	1.077	1.097	0.027	2.5%
1,2,3,4,6,7,8-HpCDF	1.183	1.167	1.214	1.257	1.250	1.154	1.204	0.043	3.6%
1,2,3,4,7,8,9-HpCDF	1.161	1.115	1.135	1.205	1.226	1.204	1.174	0.044	3.8%
OCDF	1.129	1.171	1.194	1.317	1.344	1.174	1.221	0.087	7.2%
2,3,7,8-TCDD	1.251	1.131	1.113	1.294	1.335	1.332	1.243	0.099	7.9%
1,2,3,7,8-PeCDD	1.024	1.060	1.081	1.140	1.140	1.161	1.101	0.054	4.9%
1,2,3,4,7,8-HxCDD	1.053	1.056	1.091	1.135	1.152	1.122	1.102	0.042	3.8%
1,2,3,6,7,8-HxCDD	1.068	1.085	1.112	1.148	1.137	1.116	1.111	0.030	2.7%
1,2,3,7,8,9-HxCDD	0.990	1.037	1.102	1.123	1.118	1.088	1.076	0.052	4.8%
1,2,3,4,6,7,8-HpCDD	1.011	1.061	1.076	1.101	1.099	1.087	1.072	0.034	3.1%
OCDD	0.995	1.025	1.029	1.119	1.081	1.018	1.045	0.046	4.4%
13C-2,3,7,8-TCDF	2.089	2.149	2.095	2.161	2.075	2.244	2.135	0.063	3.0%
13C-1,2,3,7,8-PeCDF	1.598	1.555	1.428	1.534	1.531	1.839	1.581	0.138	8.8%
13C-2,3,4,7,8-PeCDF	1.613	1.487	1.365	1.481	1.489	1.849	1.547	0.167	10.8%
13C-1,2,3,4,7,8-HxCDF	1.395	1.358	1.354	1.323	1.327	1.303	1.343	0.033	2.4%
13C-1,2,3,6,7,8-HxCDF	1.518	1.496	1.437	1.431	1.447	1.363	1.449	0.054	3.7%
13C-2,3,4,6,7,8-HxCDF	1.375	1.373	1.359	1.355	1.316	1.288	1.345	0.035	2.6%
13C-1,2,3,7,8,9-HxCDF	1.287	1.299	1.252	1.280	1.217	1.207	1.257	0.038	3.0%
13C-1,2,3,4,6,7,8-HpCDF	1.332	1.332	1.283	1.298	1.246	1.172	1.277	0.061	4.8%
13C-1,2,3,4,7,8,9-HpCDF	1.088	1.088	1.120	1.075	1.051	0.982	1.059	0.048	4.5%
13C-2,3,7,8-TCDD	1.080	1.148	1.191	1.113	1.101	1.242	1.146	0.061	5.3%
13C-1,2,3,7,8-PeCDD	0.790	0.781	0.731	0.781	0.805	1.010	0.816	0.098	12.0%
13C-1,2,3,4,7,8-HxCDD	0.927	0.909	0.917	0.915	0.889	0.925	0.913	0.014	1.5%
13C-1,2,3,6,7,8-HxCDD	0.955	0.968	0.941	0.945	0.940	0.964	0.952	0.012	1.3%
13C-1,2,3,4,6,7,8-HpCDD	0.957	0.959	0.965	0.953	0.936	0.904	0.944	0.021	2.3%
13C-OCDD	0.734	0.763	0.793	0.725	0.735	0.757	0.751	0.025	3.4%
13C-1,2,3,4-TCDD									
13C-1,2,3,7,8,9-HxCDD	2.251	2.363	2.254	2.571	2.531	2.871	2.474	0.237	9.6%
37Cl-2,3,7,8-TCDD									
using 2 internals									
1,2,3,7,8,9-HxCDD	1.005	1.070	1.116	1.141	1.149	1.110	1.099	0.054	4.9%

2021-11-30

Quantify Sample Summary Report

Sample List: C:\MASSLYNX\Default.Pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNX\Default.Pro\METHODS\EPA_1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 13:03:14 2021

Sample Name: M3211127A04 Sample ID: Lot 13CST0918

# Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RPL	Response	Flags	PF	%Dev	%Rec	IS#	RRF
1 2,3,7,8-TCDF	24.659	2917	4364	7282	0.67	YES	0.096	bb	0.099	-1	99	18	0.959
2 1,2,3,7,8-PeCDF	32.023	15778	10436	26214	1.51	YES	0.451	bb	0.467	-7	93	19	0.902
3 2,3,4,7,8-PeCDF	33.664	17857	10567	28424	1.69	YES	0.485	bb	0.453	-9	91	20	0.969
4 1,2,3,4,7,8-HxCDF	38.127	18136	14000	32136	1.25	YES	0.542	bd	0.472	-6	94	21	1.083
5 1,2,3,6,7,8-HxCDF	38.262	18280	14680	32960	1.25	YES	0.511	db	0.472	-6	94	22	1.022
6 2,3,4,6,7,8-HxCDF	38.222	18437	14620	33058	1.26	YES	0.565	bb	0.484	-3	97	23	1.131
7 1,2,3,7,8,9-HxCDF	39.747	18775	13272	30047	1.03	YES	0.549	bb	0.500	0	100	24	1.098
8 1,2,3,4,6,7,8-HpCDF	41.467	16958	16525	33483	0.98	YES	0.591	bb	0.491	-2	98	25	1.183
9 1,2,3,4,7,8,9-HpCDF	42.757	12647	12961	25607	0.98	YES	0.580	bb	0.494	-1	99	26	1.161
10 OCDF	45.465	16712	18506	35218	0.84	YES	1.129	bb	0.924	-8	92	27	1.129
11 2,3,7,8-TCDD	25.712	2239	2673	4912	0.84	YES	0.125	bb	0.101	1	101	27	1.251
12 1,2,3,7,8-PeCDD	34.386	8956	5751	14707	1.56	YES	0.512	bb	0.465	-7	93	28	1.024
13 1,2,3,4,7,8-HxCDD	39.107	11985	8763	20749	1.37	YES	0.527	bd	0.478	-4	96	29	1.053
14 1,2,3,6,7,8-HxCDD	39.211	12092	9593	21685	1.26	YES	0.534	db	0.481	-4	96	30	1.068
15 1,2,3,7,8,9-HxCDD	39.541	11383	8732	20115	1.30	YES	0.495	bd	0.460	-8	92	30	0.990
16 1,2,3,4,6,7,8-HpCDD	42.406	11166	9396	20562	1.19	YES	0.505	bb	0.471	-6	94	31	1.011
17 OCDD	45.347	14776	16275	31051	0.91	YES	0.995	bb	0.953	-5	95	32	0.995
18 1,3C-2,3,7,8-TCDF	24.637	3368210	4227286	7595496	0.80	YES	208.880	bb	97.823	-2	98	33	2.089
19 1,3C-1,4,7,8-PeCDF	31.992	3577359	2231947	5809306	1.60	YES	159.759	bb	101.065	1	101	33	1.598
20 1,3C-2,3,4,7,8-PeCDF	33.643	3634198	2229795	5863993	1.63	YES	161.662	bb	104.216	4	104	33	1.613
21 1,3C-1,2,3,4,7,8-HxCDF	38.107	2065995	3866536	5932531	0.53	YES	139.534	bd	103.882	4	104	34	1.395
22 1,3C-1,2,3,6,7,8-HxCDF	38.241	2242028	4210133	6452160	0.53	YES	151.755	dd	104.743	5	105	34	1.518
23 1,3C-2,3,4,6,7,8-HxCDF	38.911	2025607	3821900	5847508	0.53	YES	137.534	bb	102.290	2	102	34	1.375
24 1,3C-1,2,3,7,8,9-HxCDF	39.737	1900752	3570353	5471105	0.53	YES	128.681	bb	102.372	2	102	34	1.287
25 1,3C-1,2,3,4,6,7,8-HpCDF	41.457	1766846	3894439	5661285	0.45	YES	103.767	bb	104.253	4	104	34	1.332
26 1,3C-1,2,3,4,7,8,9-HpCDF	42.746	1371440	3040404	4411844	0.45	YES	107.980	bb	97.986	-2	98	34	1.038
27 1,3C-2,3,7,8-TCDD	25.701	1734107	2192388	3926495	0.79	YES	79.028	bb	94.237	-6	94	34	1.080
28 1,3C-1,2,3,7,8-PeCDD	34.365	1789592	1084105	2873697	1.32	YES	92.674	bd	96.809	-3	97	33	0.790
29 1,3C-1,2,3,4,7,8-HxCDD	39.097	2239534	1700688	3940222	1.30	YES	95.542	db	101.451	1	101	34	0.927
30 1,3C-1,2,3,6,7,8-HxCDD	39.200	2266092	1766034	4068450	1.07	YES	95.690	bb	100.321	0	100	34	0.955
31 1,3C-1,2,3,4,6,7,8-HpCDD	42.396	2104595	1963855	6238949	0.91	YES	146.741	bb	101.356	1	101	34	0.957
32 1,3C-OCDD	45.336	2970665	3268284	6238949	0.78	YES	3636304.500	bb	81.372	-19	81	34	0.734
33 1,3C-1,2,3,4-TCDD	25.416	1597566	2038749	3636305	1.29	YES	4251683.000	bb	82.741	-17	83	33	2.251
34 1,3C-1,2,3,7,8,9-HxCDD	39.530	2395904	1855779	4251683	1.00	YES	0.225	bb	0.091	-9	91	33	0.099
35 C17-2,3,7,8-TCDD	25.723	4093	4093	8187	0	YES	-	bb	0.101	-	18	27	0.920
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	0.465	-	-	0	0.928
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	1.419	-	-	0	0.985
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	0.497	-	-	31	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	-	-	-	-	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	-	-	-	-	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	-

6PTS

Quantify Sample Report

Sample List: C:\MASSL\INX\Default.pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\INX\Default.pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211027A04
 Text: CSL_1613

1: 2,3,7,8-TCDF

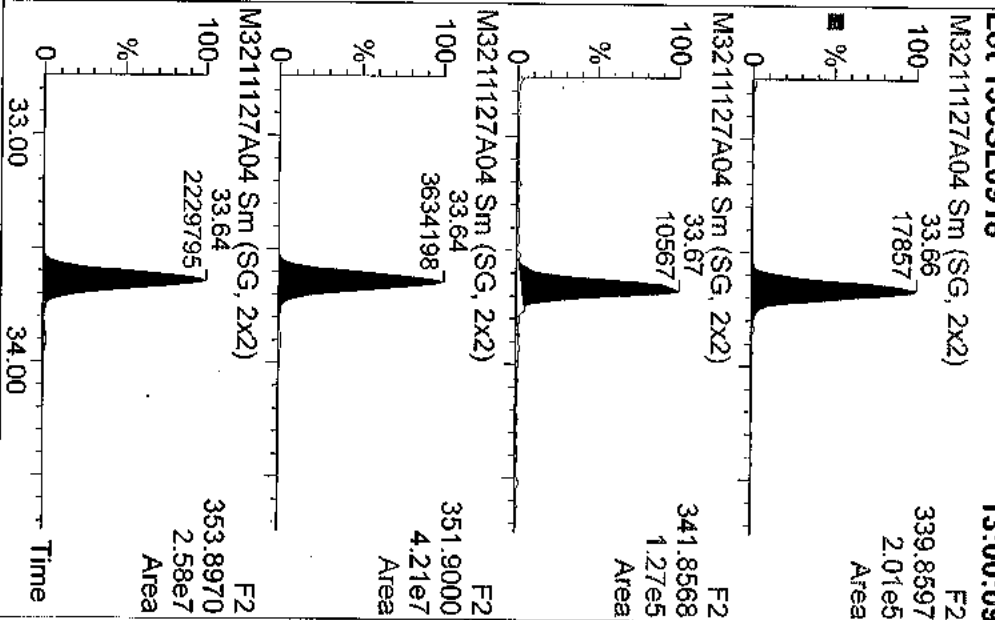
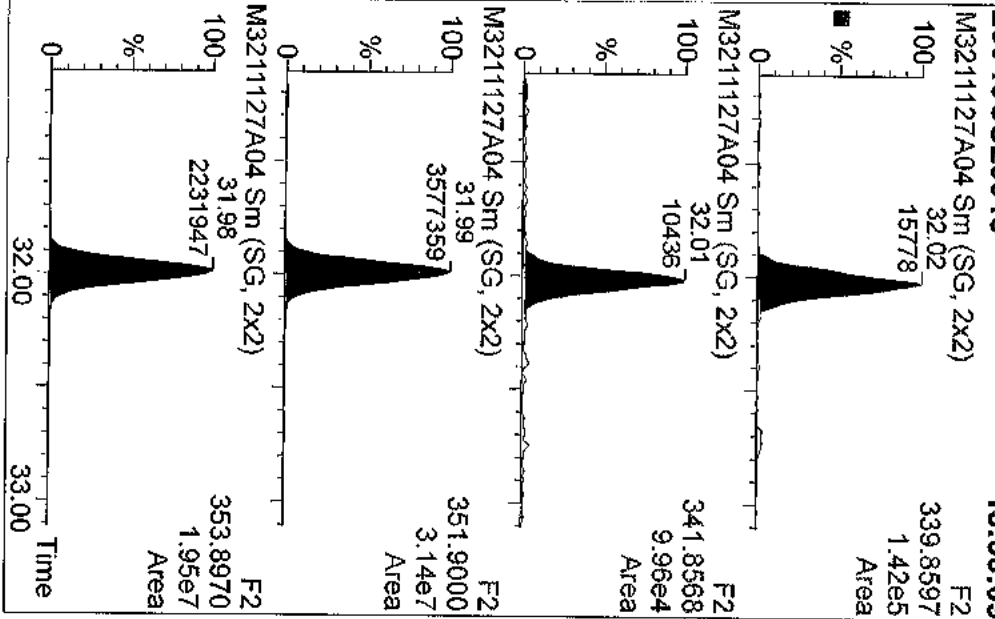
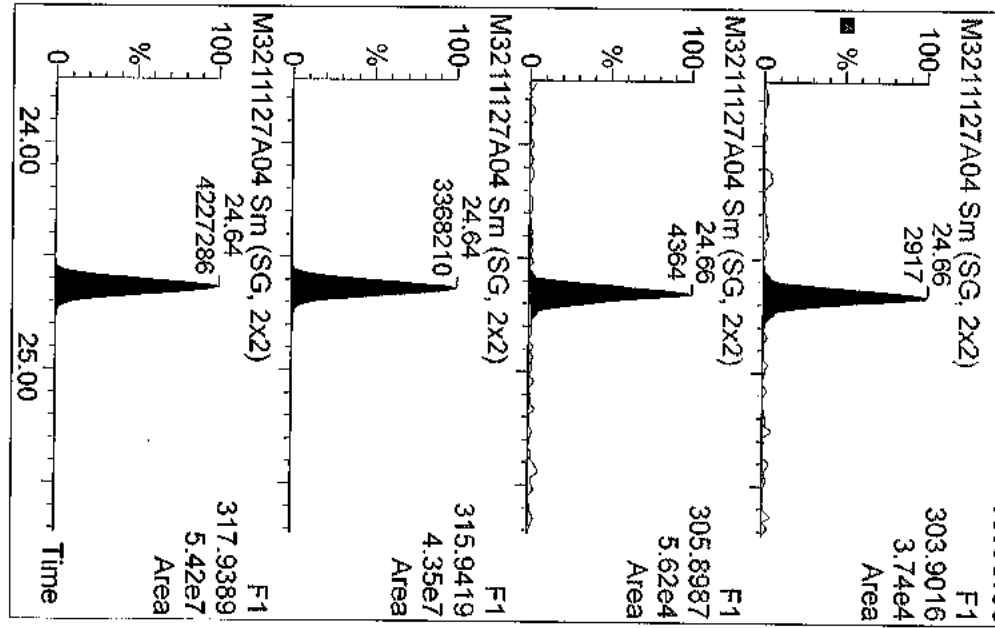
2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF

CSL_1613 27-Nov-2021
 Lot 13CSL0918 13:00:09

CSL_1613 27-Nov-2021
 Lot 13CSL0918 13:00:09

CSL_1613 27-Nov-2021
 Lot 13CSL0918 13:00:09



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Codes:

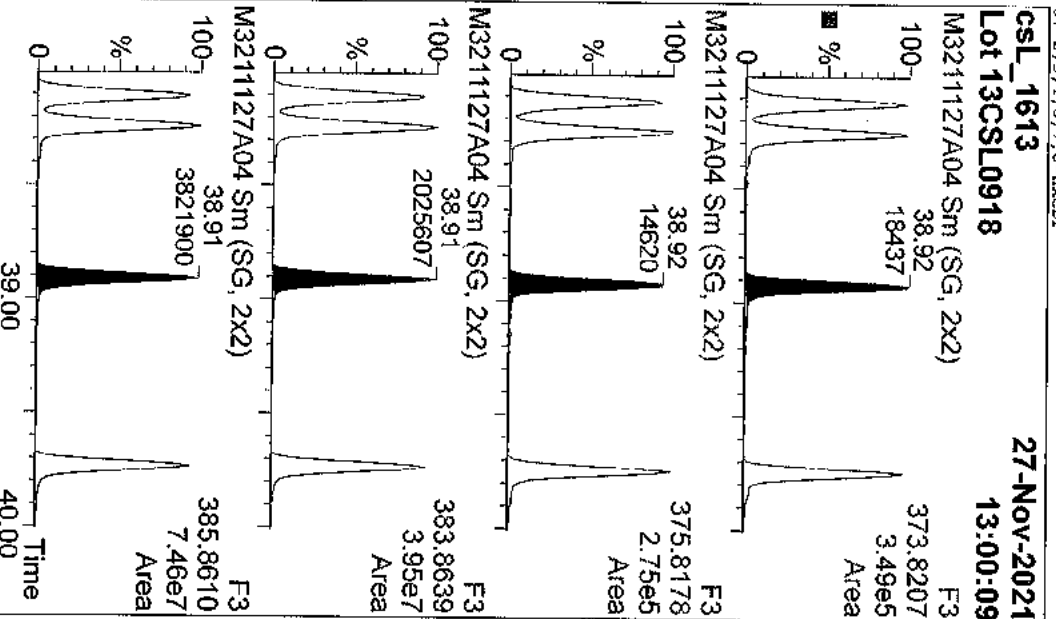
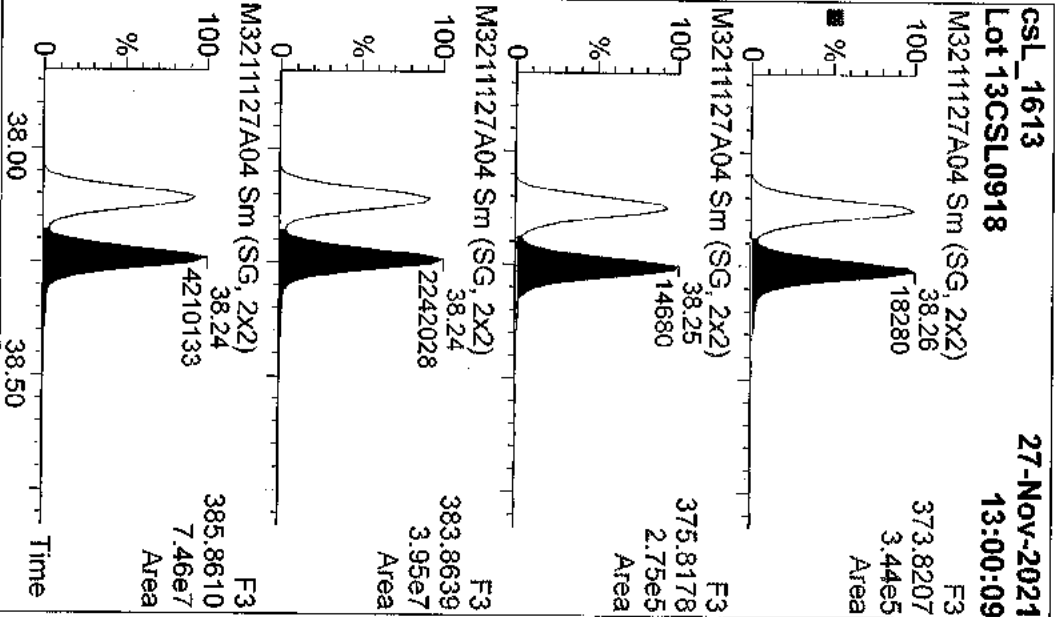
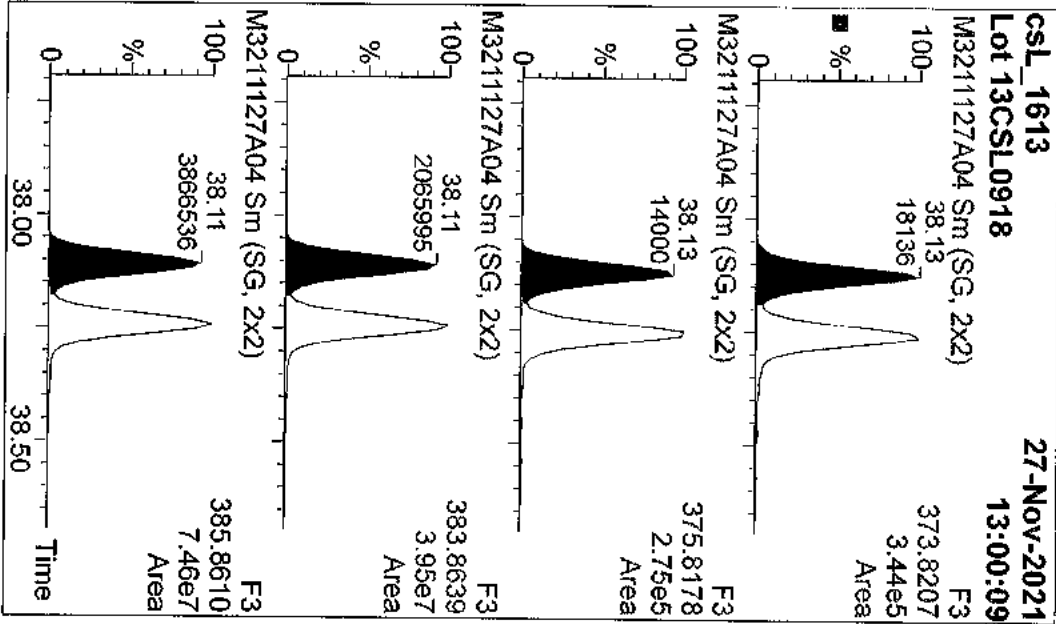
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A04
 Text: csl_1613

4: 1,2,3,4,7,8-RxODE

5: 1,2,3,6,7,8-RxODE

6: 2,3,4,6,7,8-RxODE



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMPLDDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_EC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

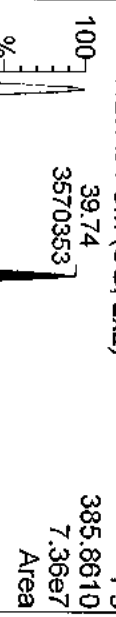
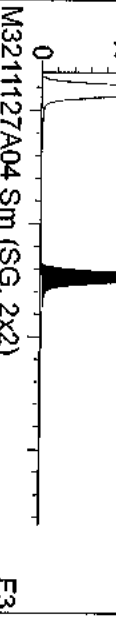
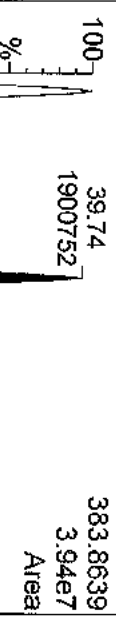
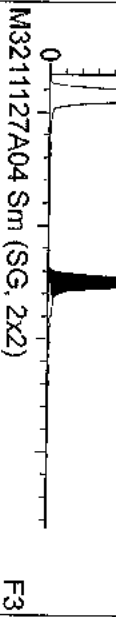
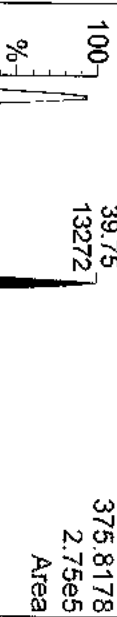
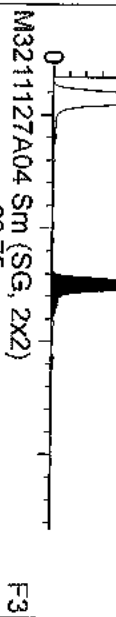
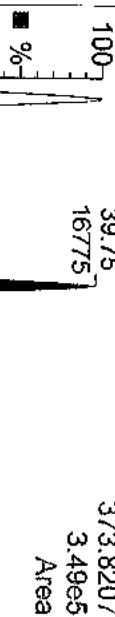
Name: M3211127A04
 Text: csl_1613

7: 1,2,3,7,8,9-HxCDF

CSL_1613 27-Nov-2021 13:00:09

Lot 13CSL0918

M3211127A04 Sm (SG, 2x2)

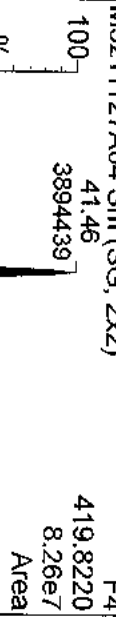
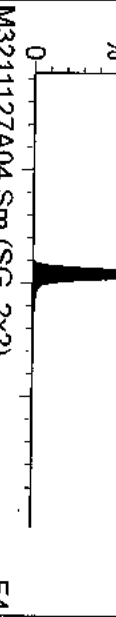
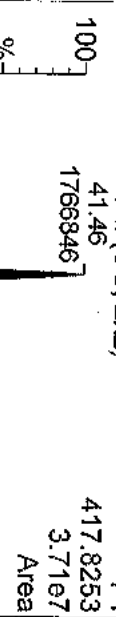
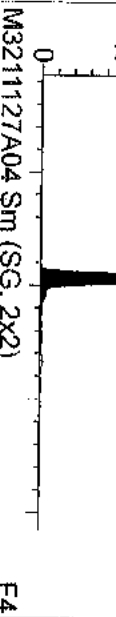
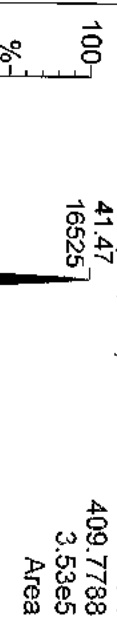
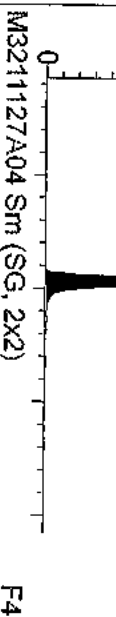
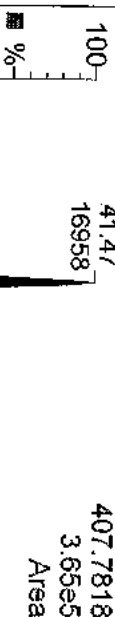


8: 1,2,3,4,6,7,8-HpCDF

CSL_1613 27-Nov-2021 13:00:09

Lot 13CSL0918

M3211127A04 Sm (SG, 2x2)

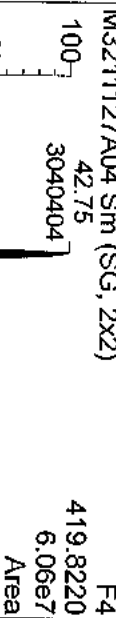
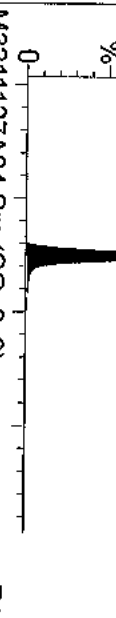
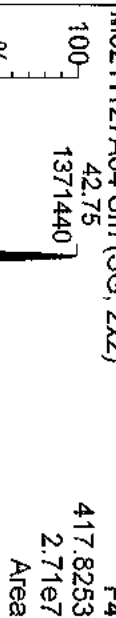
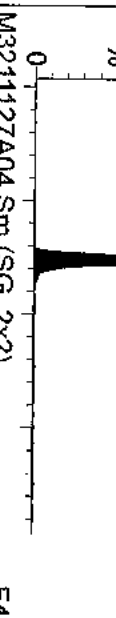
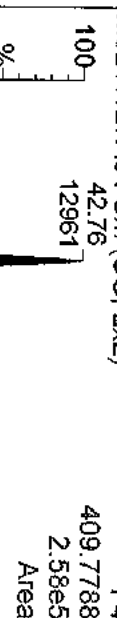
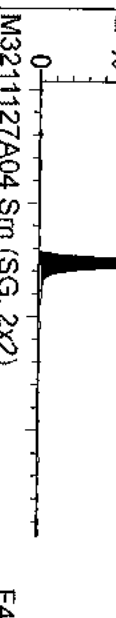
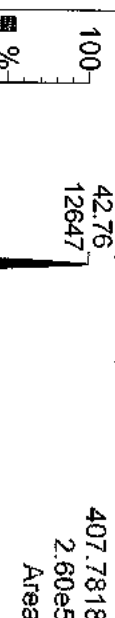


9: 1,2,3,4,7,8,9-HpCDF

CSL_1613 27-Nov-2021 13:00:09

Lot 13CSL0918

M3211127A04 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
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 Method: C:\MSDCHEM\Default-pro\METHODS\M3211127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A04
 Text: csl_1613

10: OCDF

11: 2,3,7,8-TCDD

12: 1,2,3,7,8-PeCDD

csl_1613
Lot 13CSL0918
27-Nov-2021
13:00:09

M3211127A04 Sm (SG, 2x2)



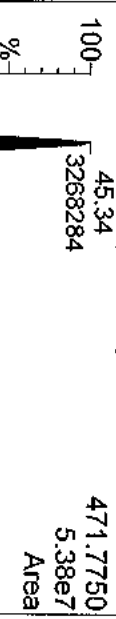
M3211127A04 Sm (SG, 2x2)



M3211127A04 Sm (SG, 2x2)

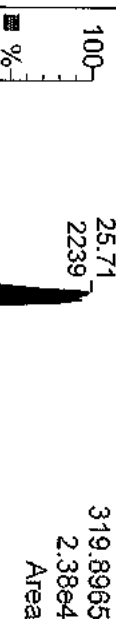


M3211127A04 Sm (SG, 2x2)

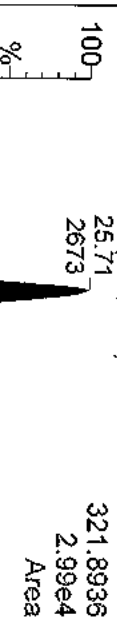


csl_1613
Lot 13CSL0918
27-Nov-2021
13:00:09

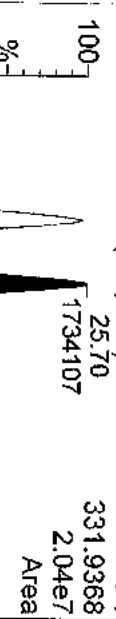
M3211127A04 Sm (SG, 2x2)



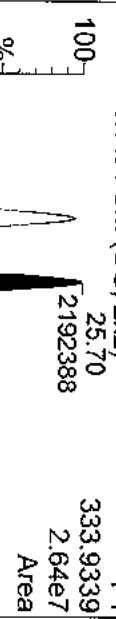
M3211127A04 Sm (SG, 2x2)



M3211127A04 Sm (SG, 2x2)

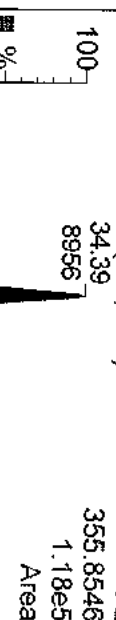


M3211127A04 Sm (SG, 2x2)

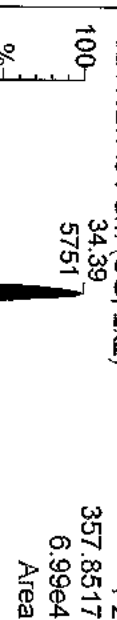


csl_1613
Lot 13CSL0918
27-Nov-2021
13:00:09

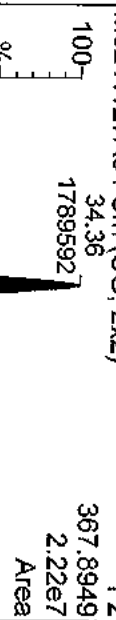
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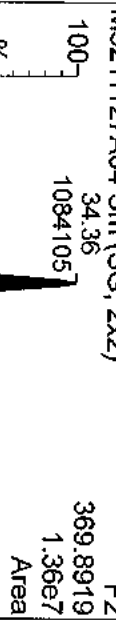
M3211127A04 Sm (SG, 2x2)



M3211127A04 Sm (SG, 2x2)



M3211127A04 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-Pro\SMFLEDB\M321127A_1613_CALI
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 Last modified: Mon Nov 29 13:05:17 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

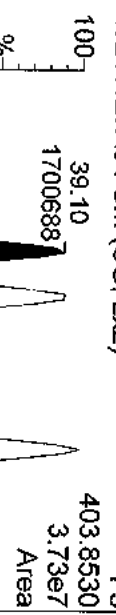
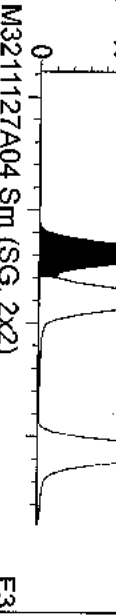
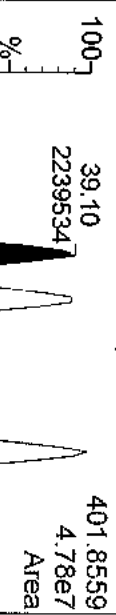
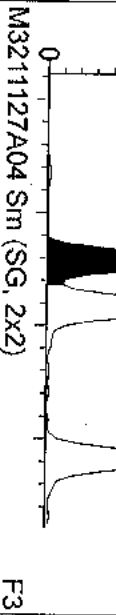
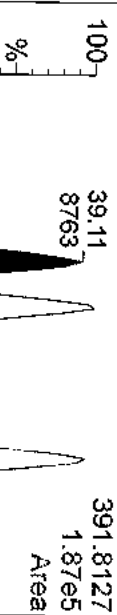
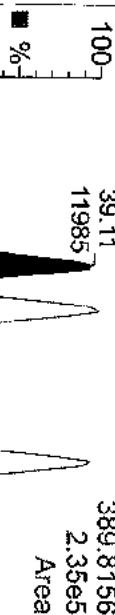
Name: M321127A04
 Text: csl_1613

13: 1,2,3,4,7,8-HxCDD

csl_1613 27-Nov-2021 13:00:09

Lot 13CSL0918

M321127A04 Sm (SG, 2x2)

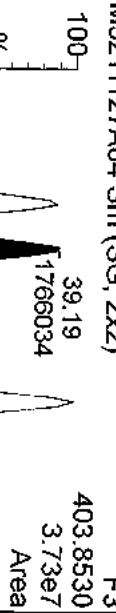
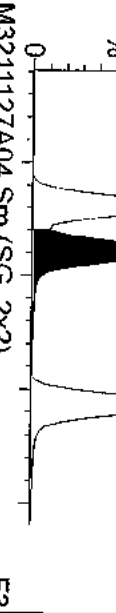
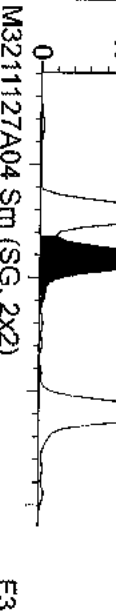
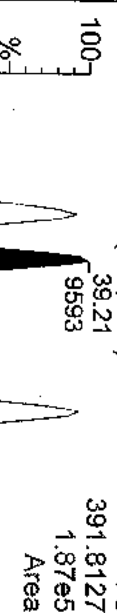
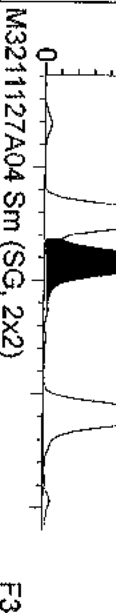
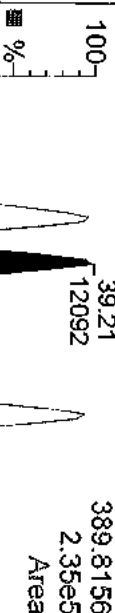


14: 1,2,3,6,7,8-HxCDD

csl_1613 27-Nov-2021 13:00:09

Lot 13CSL0918

M321127A04 Sm (SG, 2x2)

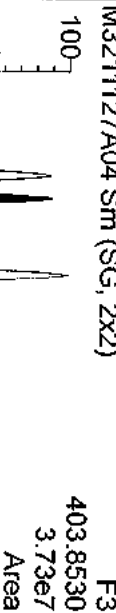
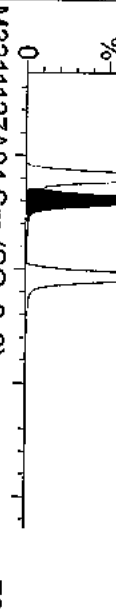
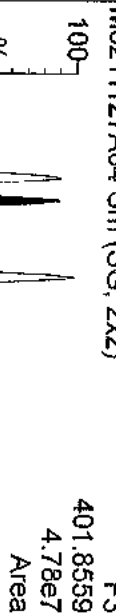
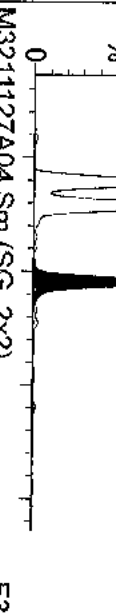
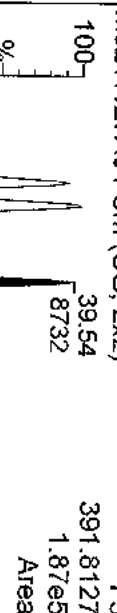
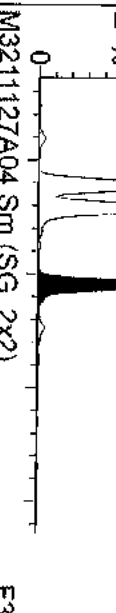
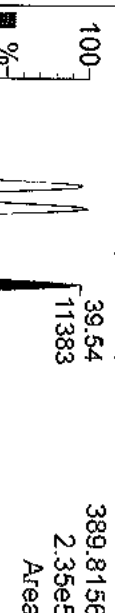


15: 1,2,3,7,8,9-HxCDD

csl_1613 27-Nov-2021 13:00:09

Lot 13CSL0918

M321127A04 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSL\XNK\Default-pro\SMPL\MS211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\XNK\Default-pro\METHOD\MS211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

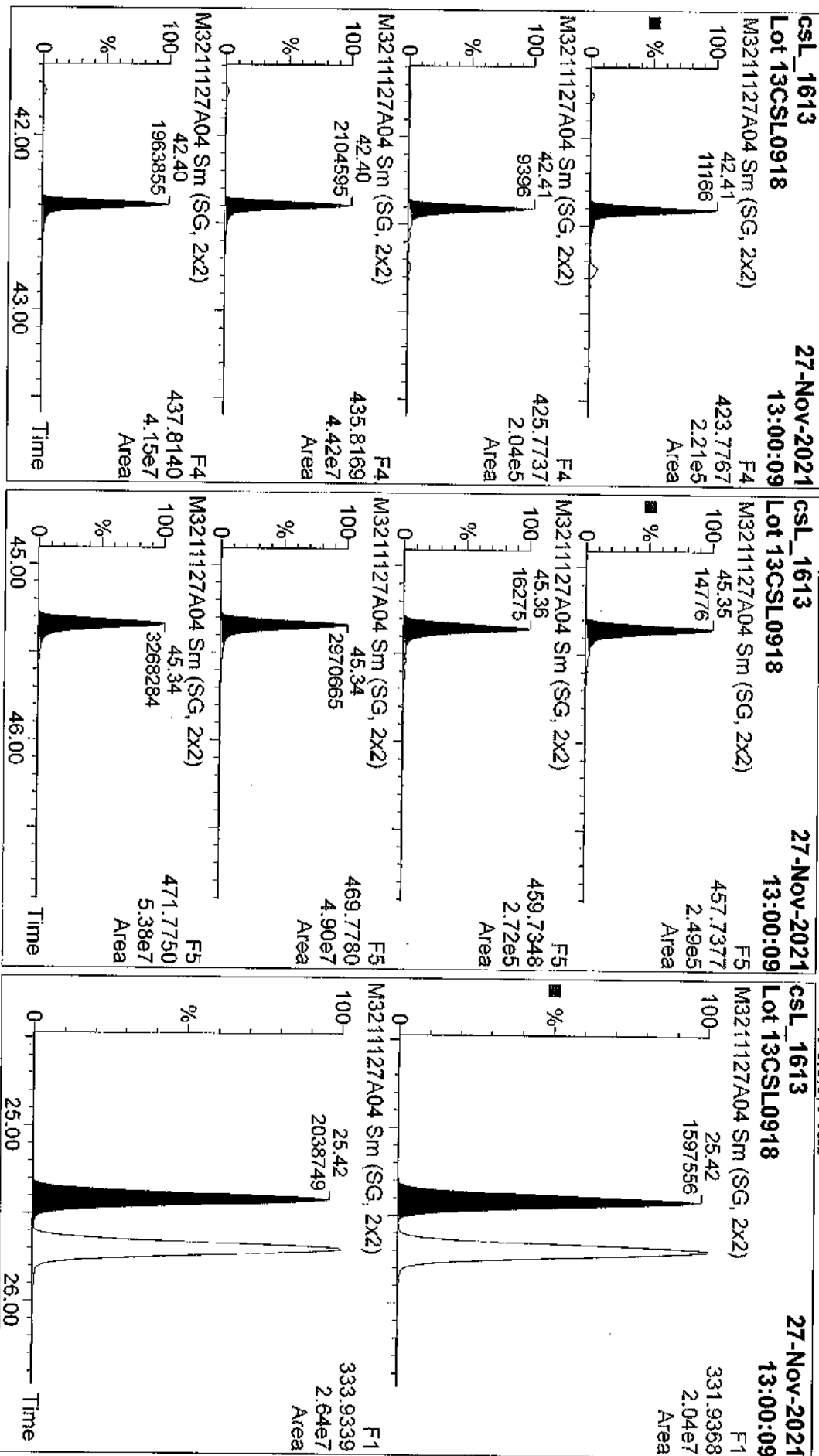
Printed: Mon Nov 29 13:06:13 2021

Name: MS211027A04
 Text: csl_1613

16: 1,2,3,4,6,7,8-HpCDD

17: OCDD

33: 13C-1,2,3,4-7CDD



Quantity Sample Report

Sample List: C:\MASSVIEW\Default.prp\SMPLDDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSVIEW\Default.prp\METHOD\M3211127A_HC_stdA_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A04
 Text: CSL_1613

34: 13C-1,2,3,7,8,9-HxCDD

35: Cl37-2,3,7,8-TCDD

39: Punction 1 Lockmass

CSL_1613
 Lot 13CSL0918
 27-Nov-2021
 13:00:09

CSL_1613
 Lot 13CSL0918
 27-Nov-2021
 13:00:09

CSL_1613
 Lot 13CSL0918
 27-Nov-2021
 13:00:09

M3211127A04 Sm (SG, 2x2)

M3211127A04 Sm (SG, 2x2)

M3211127A04 Sm (SG, 2x2)

2395904

25.72

21.85

39.53

4093

22.85

401.8559

327.8850

23.68

4.78e7

4.62e4

26.55

Area

Area

Area

F3

F1

F1

403.8530

331.9368

316.9824

3.73e7

2.04e7

3.32e6

Area

Area

Area

F3

F1

F1

403.8530

331.9368

316.9824

3.73e7

2.04e7

3.32e6

Area

Area

Area

F3

F1

F1

403.8530

331.9368

316.9824

3.73e7

2.04e7

3.32e6

Area

Area

Area

F3

F1

F1

403.8530

331.9368

316.9824

3.73e7

2.04e7

3.32e6

Area

Area

Area

F3

F1

F1

403.8530

331.9368

316.9824

3.73e7

2.04e7

3.32e6

Area

Area

Area

F3

F1

F1

Quantify Sample Report

Sample List: C:\MASSTYRK\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSTYRK\Default.pro\METHOD\M321127A_EC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

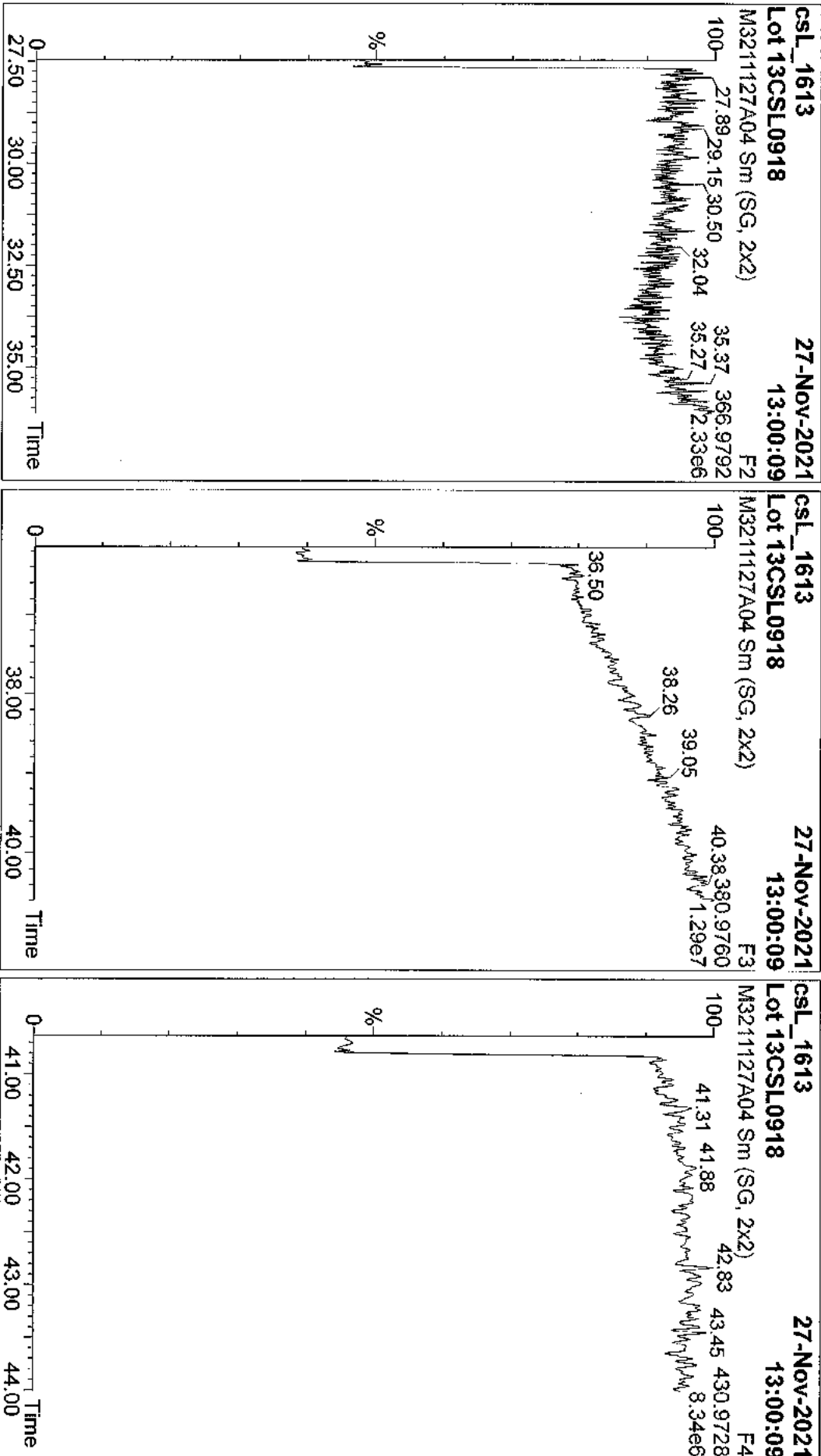
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A04
 Text: CSL_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M321127A_1613_CALLI
Last modified: Mon Nov 29 09:57:39 2021
Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_std_1613
Last modified: Mon Nov 29 13:05:57 2021
Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M321127A04
Text: csl_1613

53: Function 5 Lockmass

CSL_1613 27-Nov-2021

Lot 13CSL0918 13:00:09

M321127A04 Sm (SG, 2x2) F5

100 44.59 45.05 46.28 47.09 47.29 454.9728

5.27e6

0 45.00 46.00 47.00 Time

Quantify Sample Summary Report

Sample List: C:\MASSL\XN\Default.Pro\SMFLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\XN\Default.Pro\METHODS\EPA_1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 13:03:14 2021

Sample Name: M3211127A05 Sample ID: Lot 13CS11020

# Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RPL	Response	Flags	pg	%Dev	%Rec	IS#	RRF
1 2,3,7,8-TCDF	24.659	16315	21247	37563	0.77	YES	0.446	bb	0.461	-8	92	18	0.893
2 1,2,3,7,8-PeCDF	32.034	85926	53611	139537	1.60	YES	2.292	bb	2.371	-5	95	19	0.917
3 2,3,4,7,8-PeCDF	33.664	89354	58888	148242	1.52	YES	2.546	bb	2.380	-5	95	20	0.917
4 1,2,3,4,7,8-HxCDF	38.128	96151	74926	171077	1.28	YES	2.846	dd	2.481	-1	99	21	1.138
5 1,2,3,6,7,8-HxCDF	38.262	97268	76795	174063	1.27	YES	2.628	dd	2.428	-3	97	22	1.051
6 2,3,4,6,7,8-HxCDF	38.932	97623	76733	174356	1.27	YES	2.869	bb	2.454	-2	98	23	1.148
7 1,2,3,7,8,9-HxCDF	39.758	85945	65923	151868	1.30	YES	2.641	bb	2.406	-4	96	24	1.056
8 1,2,3,4,6,7,8-HpCDF	41.478	87835	84231	172066	1.04	YES	2.917	bb	2.423	-3	97	25	1.167
9 1,2,3,4,7,8,9-HpCDF	42.768	68199	66111	134310	0.93	YES	2.787	bb	2.374	-5	95	26	1.115
10 OCDF	45.465	95140	102446	197586	0.78	YES	5.853	bb	4.792	-4	96	32	1.171
11 2,3,7,8-TCDD	25.735	11139	14282	25421	0.93	YES	0.565	bb	0.455	-9	91	27	1.131
12 1,2,3,7,8-PeCDD	34.386	49943	31064	81007	1.61	YES	2.650	bb	2.408	-4	96	28	1.060
13 1,2,3,4,7,8-HxCDD	39.108	59285	46944	106230	1.26	YES	2.641	bb	2.397	-4	96	29	1.056
14 1,2,3,6,7,8-HxCDD	39.211	64540	51730	116270	1.25	YES	2.713	dd	2.442	-2	98	30	1.085
15 1,2,3,7,8,9-HxCDD	39.551	62892	48218	111110	1.30	YES	2.592	bb	2.409	-4	96	30	1.037
16 1,2,3,4,6,7,8-HpCDD	42.417	57902	54764	112665	1.06	YES	2.653	bb	2.474	-1	99	31	1.061
17 OCDD	45.359	82908	90133	173041	0.92	YES	5.126	bb	4.907	-2	98	32	1.025
18 1,3,6,2,3,7,8-TCDF	24.637	370656	4707186	8413752	0.79	YES	214.895	bb	100.640	1	101	33	2.149
19 1,3,6,2,3,7,8-PeCDF	32.003	3751220	2338099	6089319	1.60	YES	155.527	bb	98.389	-2	98	33	1.555
20 1,3,6,2,3,4,7,8-PeCDF	33.643	3576059	2247492	5823551	1.59	YES	148.739	bb	96.122	-4	96	33	1.487
21 1,3,6,1,2,3,4,7,8-HxCDF	38.118	2077405	3934383	6011788	0.53	YES	135.792	dd	101.096	1	101	34	1.358
22 1,3,6,1,2,3,6,7,8-HxCDF	38.252	2282763	4340235	6622997	0.53	YES	149.598	dd	103.254	3	103	34	1.496
23 1,3,6,2,3,4,6,7,8-HxCDF	38.912	2107263	369703	6076966	0.53	YES	137.264	bb	102.090	2	102	34	1.373
24 1,3,6,1,2,3,7,8,9-HxCDF	39.737	1997684	3753465	5751149	0.46	YES	129.905	bb	103.345	3	103	34	1.299
25 1,3,6,1,2,3,4,6,7,8-HpCDF	41.457	1843395	4054885	5898280	0.45	YES	108.834	bb	104.311	4	104	34	1.332
26 1,3,6,1,2,3,4,7,8,9-HpCDF	42.757	1500587	3317722	4818309	0.81	YES	114.841	bb	100.224	0	100	33	1.088
27 1,3,6,2,3,7,8-TCDD	25.702	2008404	2487926	4496329	0.45	YES	78.064	bb	95.628	-4	96	33	0.781
28 1,3,6,1,2,3,7,8-PeCDD	34.365	1906956	1149489	3056445	1.28	YES	90.851	bb	99.456	-1	99	34	0.909
29 1,3,6,1,2,3,4,7,8-HxCDD	39.097	2258978	1763207	4022185	1.28	YES	96.807	bb	101.649	2	102	34	0.968
30 1,3,6,1,2,3,4,7,8-HxCDD	39.201	246513	1879320	4246653	1.05	YES	95.922	bb	101.601	2	102	34	0.959
31 1,3,6,1,2,3,6,7,8-HxCDD	42.406	3249683	3502115	6751797	0.93	YES	152.507	bb	203.044	2	102	34	0.763
32 1,3,6,1,2,3,4-TCDD	25.416	1780507	2134774	3915282	0.83	YES	3915281.625	bb	87.615	-12	88	0	0.3915281.625
33 1,3,6,1,2,3,7,8,9-HxCDD	39.541	2488797	1938414	4427210	1.28	YES	4427210.375	bb	86.157	-14	86	0	4427210.375
34 Cl37-2,3,7,8-TCDD	25.724	23130	23130	46260	1.00	YES	1.182	bb	0.478	-4	96	33	2.363
35 Cl37-2,3,7,8-TCDD	-	0	0	0	-	-	-	-	0.461	-	-	18	-
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	0.455	-	-	27	-
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	4.750	-	-	0	-
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	2.408	-	-	28	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	9.770	-	-	0	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	7.248	-	-	30	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	4.839	-	-	0	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	2.509	-	-	31	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	-

6945

Quantity Sample Report

Sample List: C:\MASSLIXX\Default-pro\SAMPLEDB\M3211027A_1613.CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLIXX\Default-pro\METHOD\M3211127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

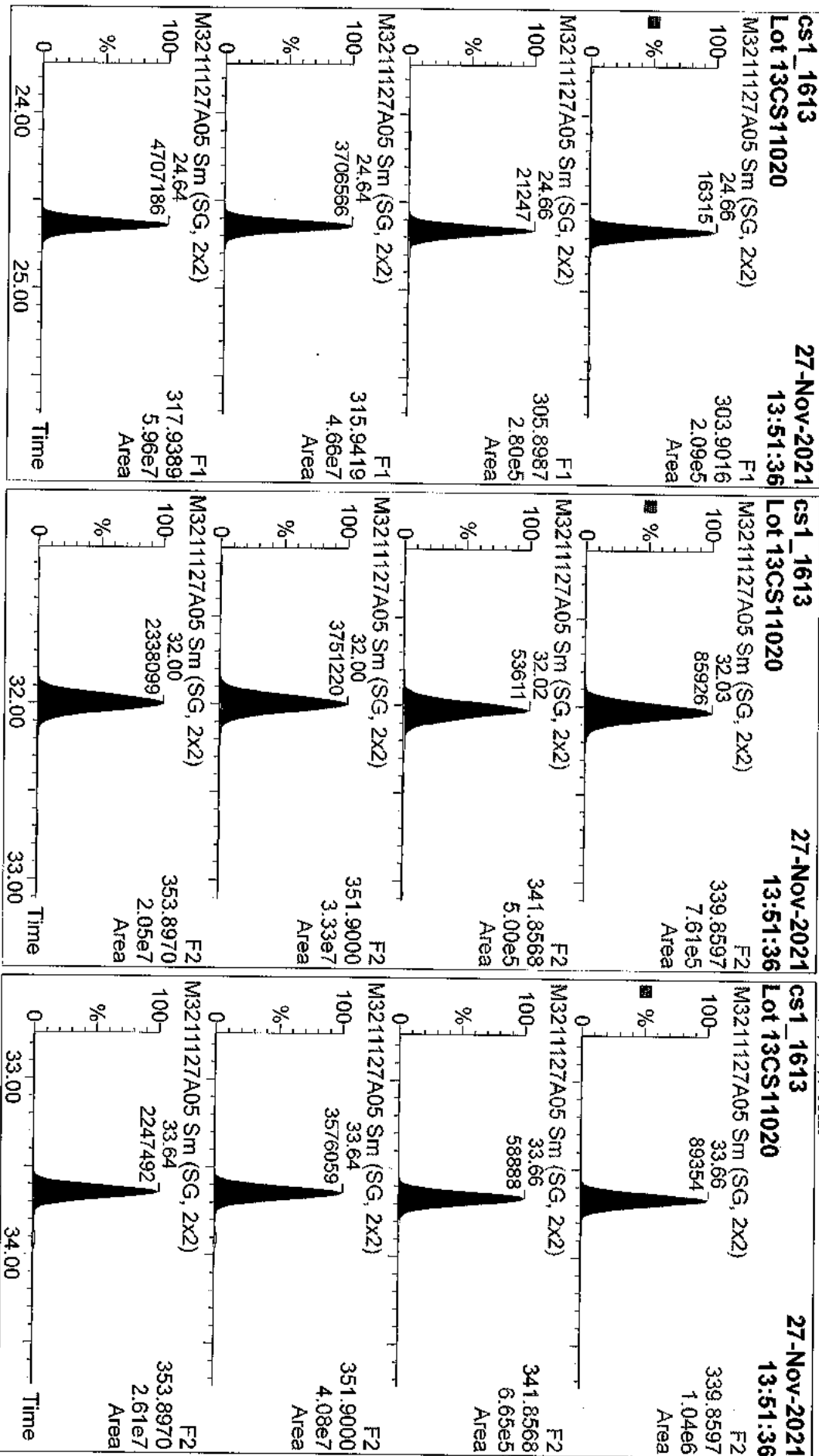
Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A05
 Text: cs1_1613

1: 2,3,7,8-TCDF

2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF



Quantify Sample Report

Sample List: C:\MASSWIN\Default-Pro\SMFLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSWIN\Default-Pro\METHOD\M321127A_HC_stds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

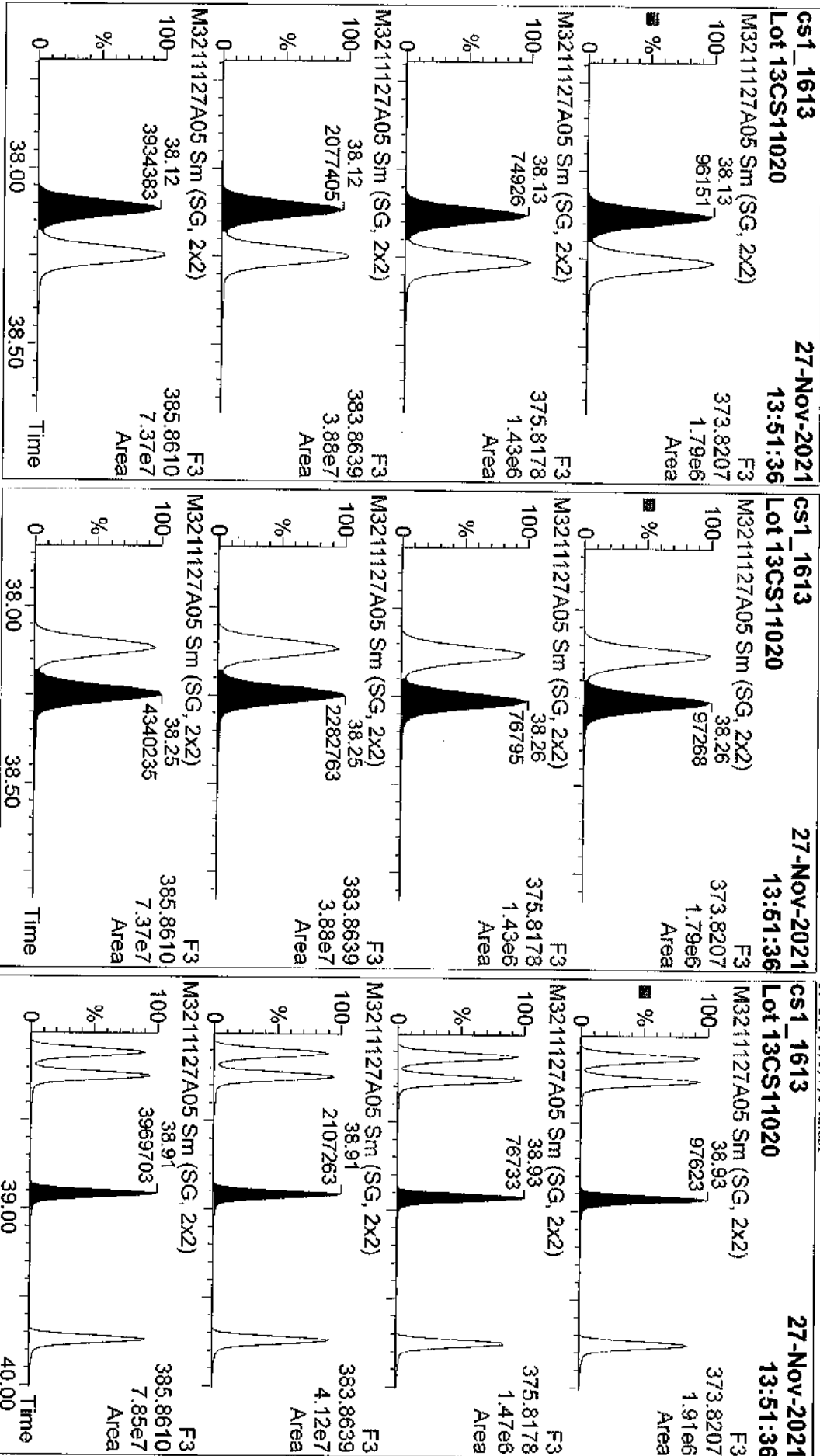
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A05
 Text: cs1_1613

4: 1,2,3,4,7,8-HxCDF

5: 1,2,3,6,7,8-HxCDF

6: 2,3,4,6,7,8-HxCDF



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

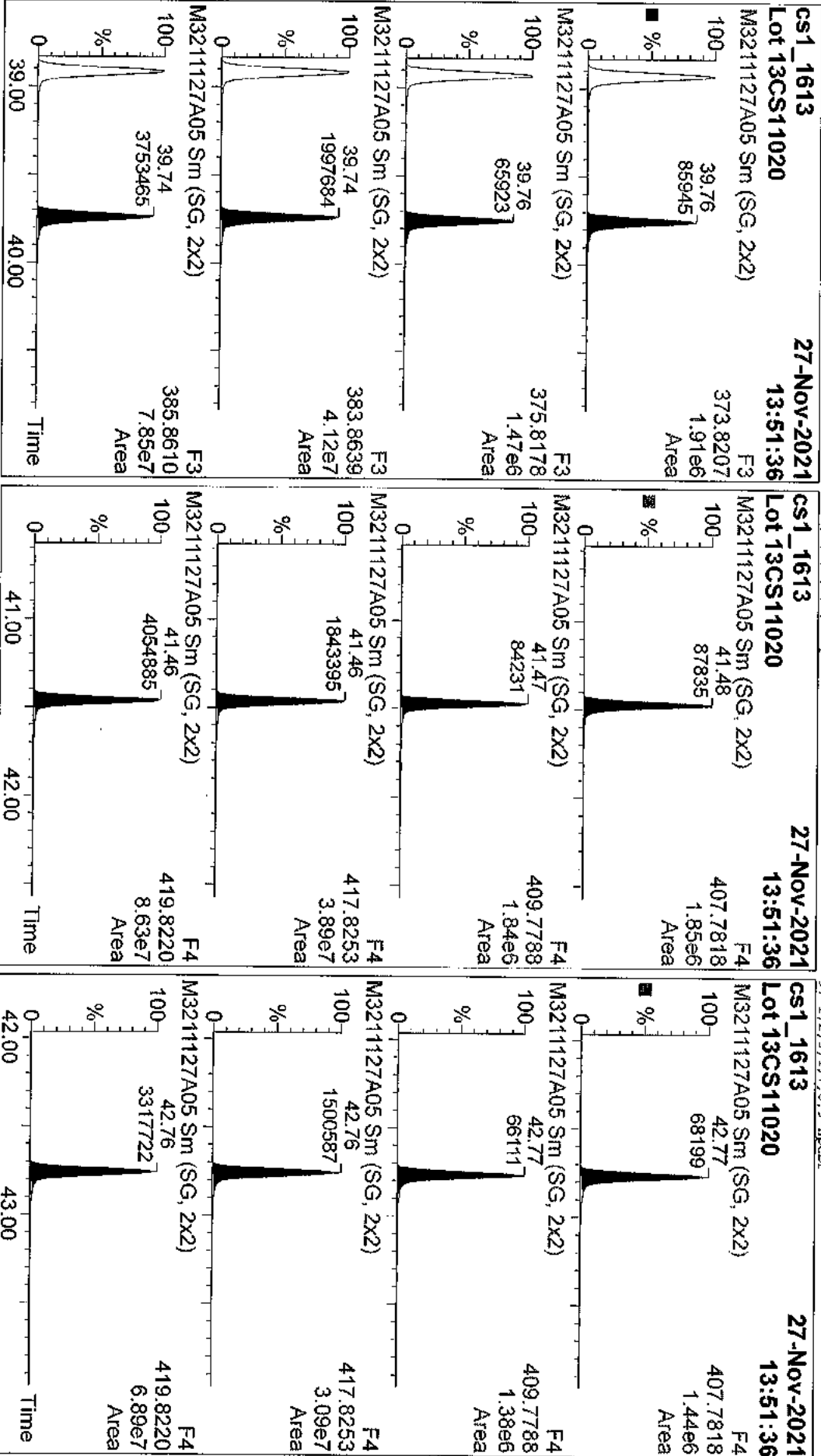
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A05
 Text: cs1_1613

7: 1,2,3,7,8,9-HxCDF

8: 1,2,3,4,6,7,8-HxCDF

9: 1,2,3,4,7,8,9-HxCDF



Quantify Sample Report

Sample List: C:\MASSLTX\Default-Pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLTX\Default-Pro\METHOD\M3211027A_HC_std6_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A05
 Text: cs1_1613

10: OCDF

11: 2,3,7,8-TCDD

12: 1,2,3,7,8-PeCDD

cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)

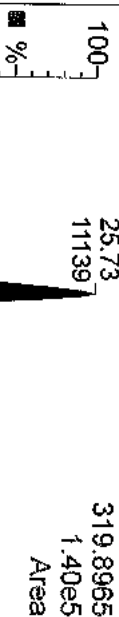


M3211127A05 Sm (SG, 2x2)

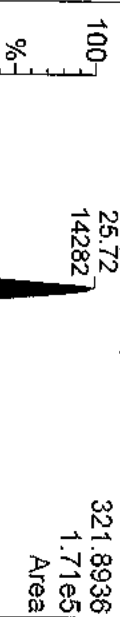


cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

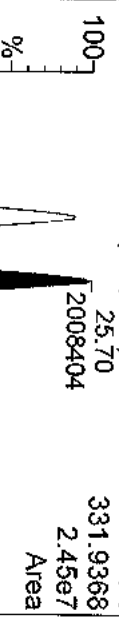
M3211127A05 Sm (SG, 2x2)



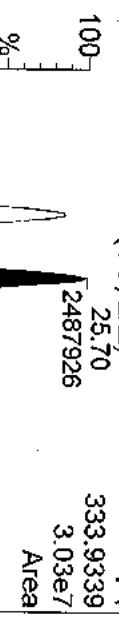
M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)

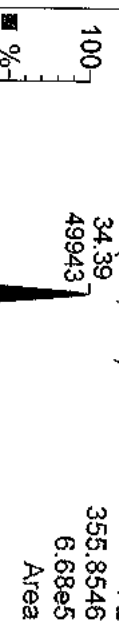


M3211127A05 Sm (SG, 2x2)

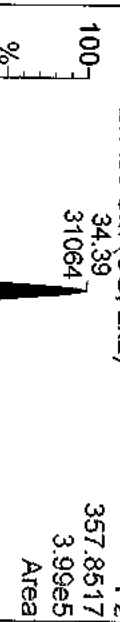


cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

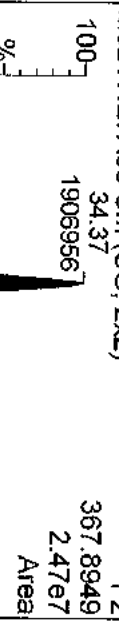
M3211127A05 Sm (SG, 2x2)



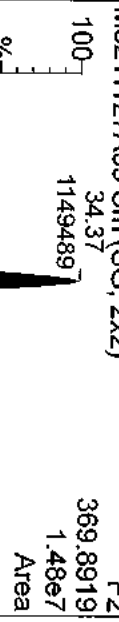
M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSL\X\Default-Pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\X\Default-Pro\METHODS\M3211127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

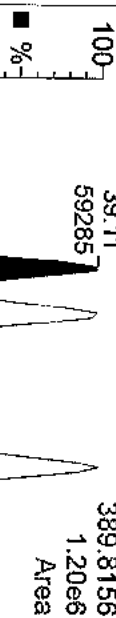
Name: M3211127A05
 Text: cs1_1613

13: 1,2,3,4,7,8-HxCDD

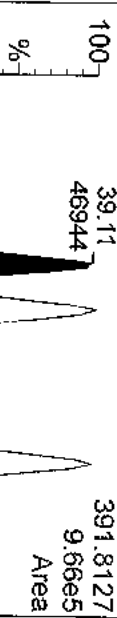
cs1_1613 27-Nov-2021 13:51:36

Lot 13CS11020

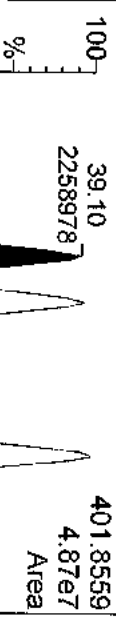
M3211127A05 Sm (SG, 2x2)



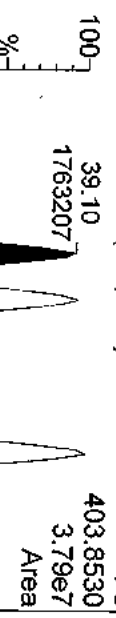
M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)

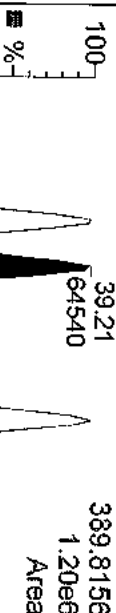


14: 1,2,3,6,7,8-HxCDD

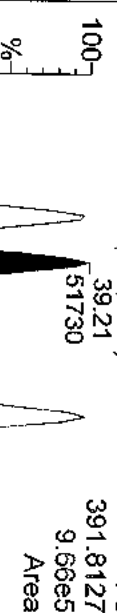
cs1_1613 27-Nov-2021 13:51:36

Lot 13CS11020

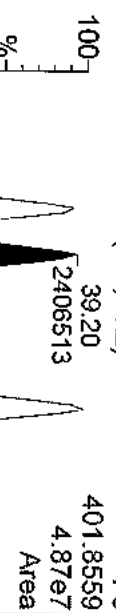
M3211127A05 Sm (SG, 2x2)



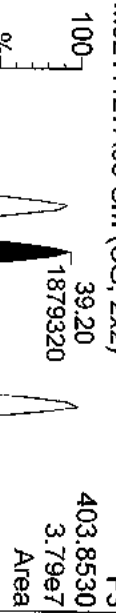
M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)

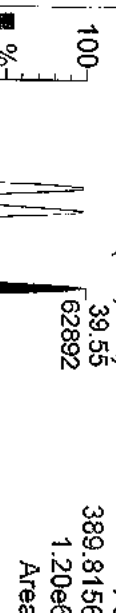


15: 1,2,3,7,8,9-HxCDD

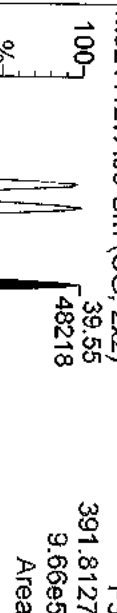
cs1_1613 27-Nov-2021 13:51:36

Lot 13CS11020

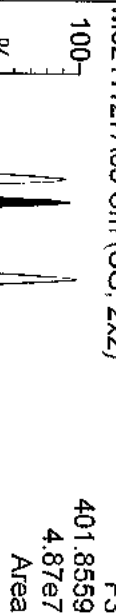
M3211127A05 Sm (SG, 2x2)



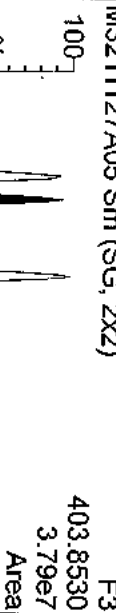
M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSLYNK\Default-pro\SMFLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNK\Default-pro\METHOD\M3211127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A05
 Text: cs1_1613

16: 1,2,3,4,6,7,8-HPCMD

17: OCDD

33: 13C-1,2,3,4-TCDD

cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

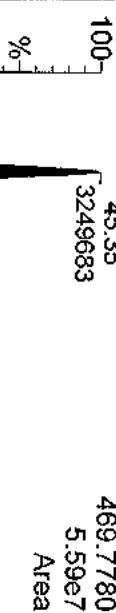
M3211127A05 Sm (SG, 2x2)



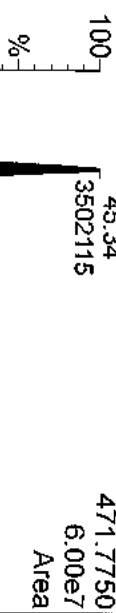
M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)

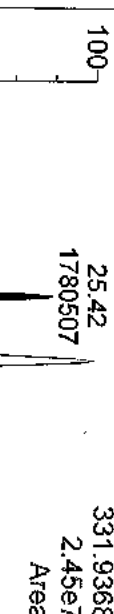


M3211127A05 Sm (SG, 2x2)

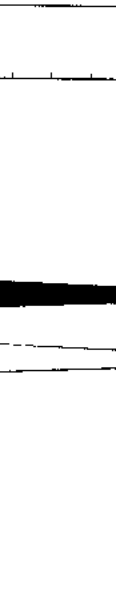


cs1_1613 27-Nov-2021
 Lot 13CS11020 13:51:36

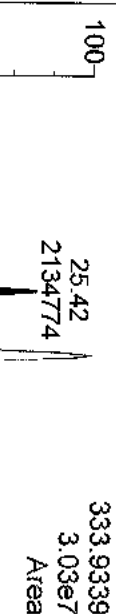
M3211127A05 Sm (SG, 2x2)



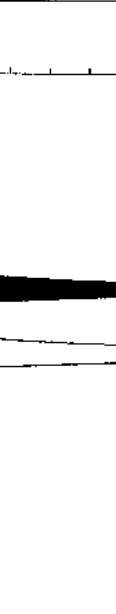
M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



M3211127A05 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMFLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_EC_stds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

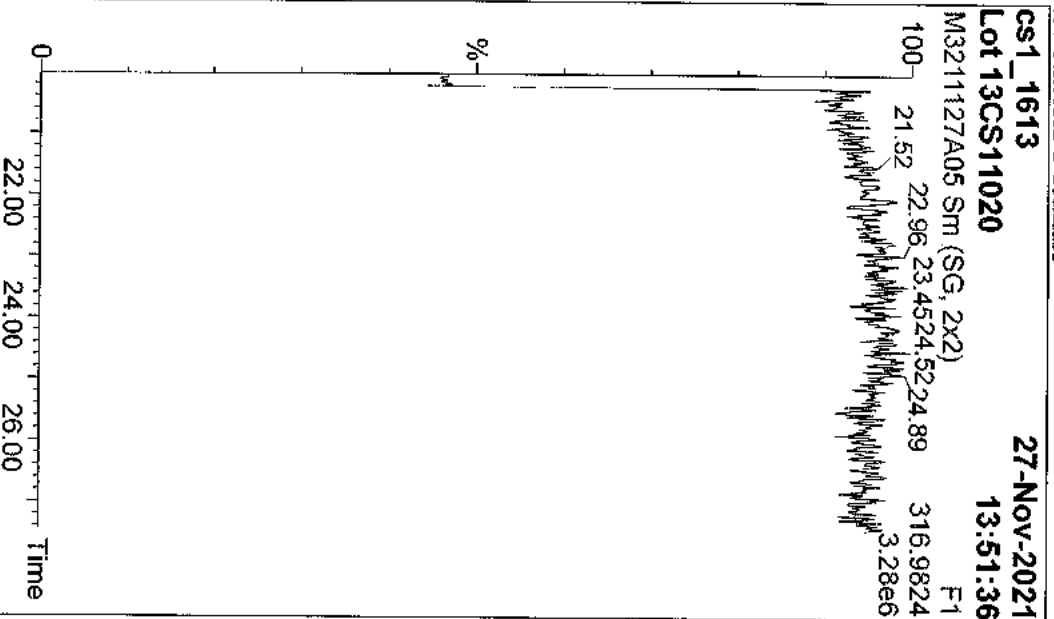
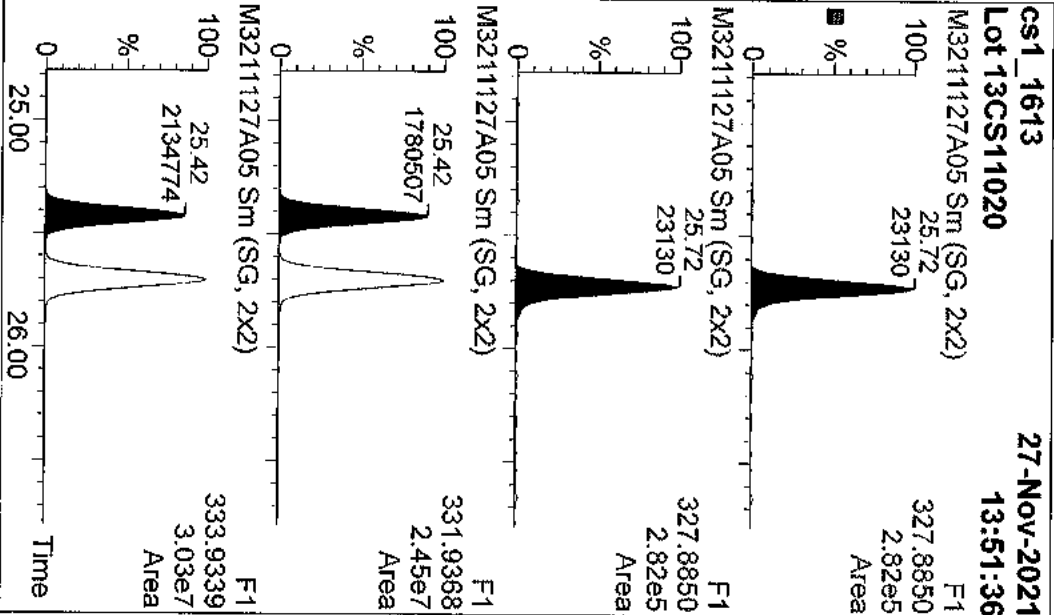
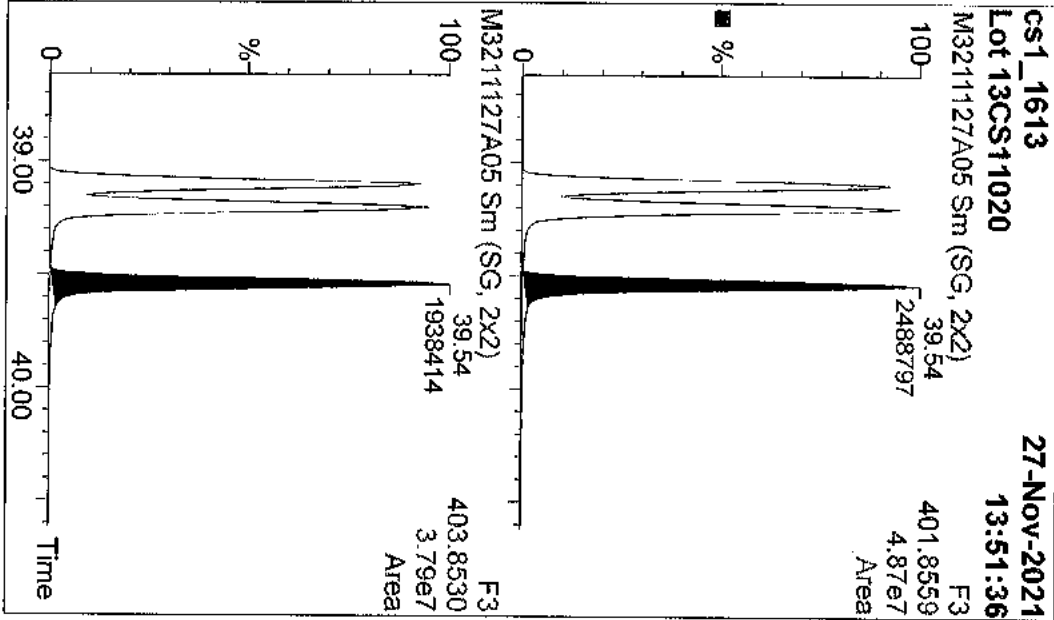
Printed: Mon Nov 29 13:06:13 2021

Name: M3211027A05
 Text: cs1_1613

34: 13C-1,2,3,7,8,9-HXDD

35: C137-2,3,7,8-TCDD

39: Punction 1 Lockmass



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMPLR08\M3211027A_1613_CATI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

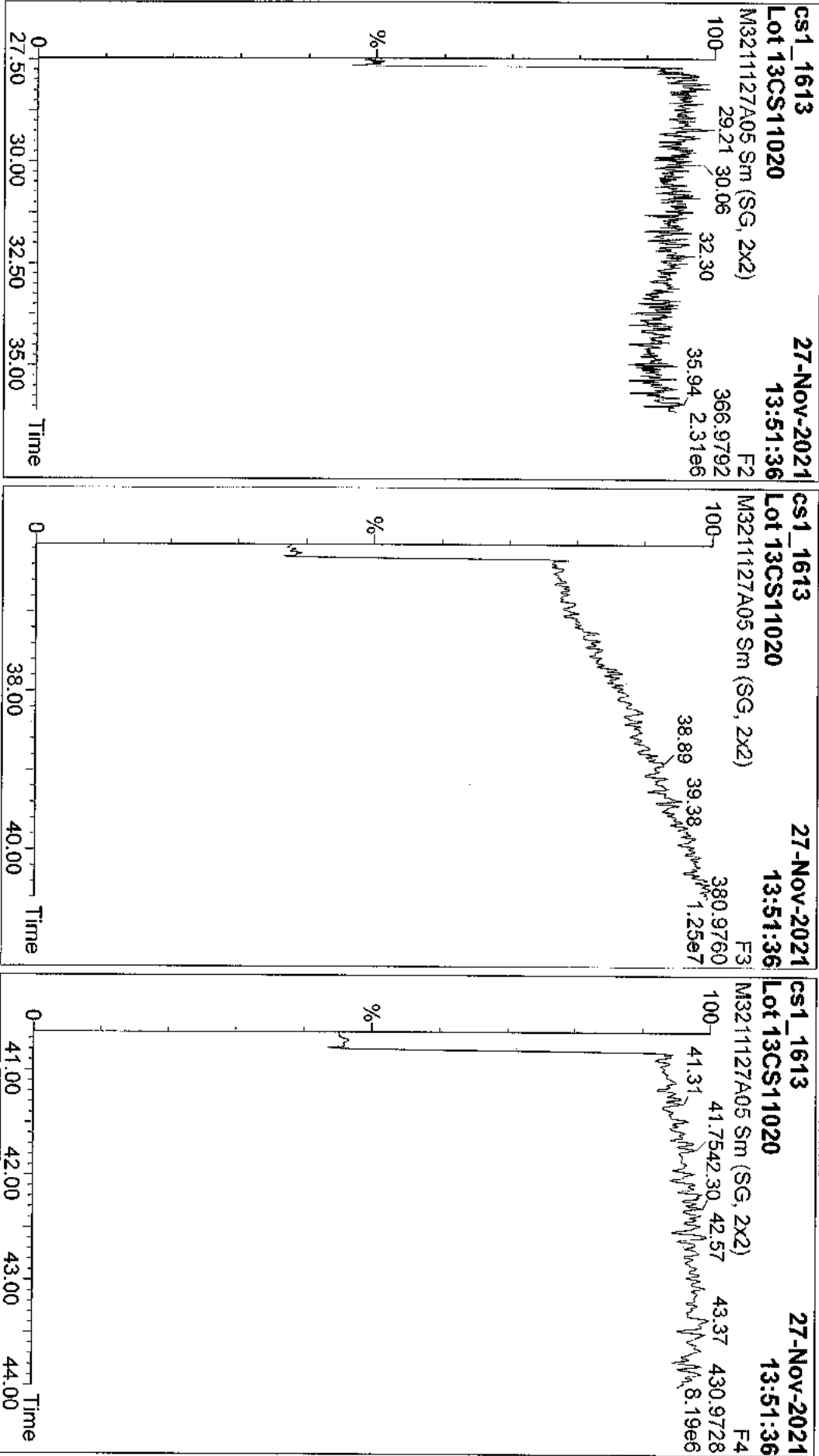
Printed: Mon Nov 29 13:06:13 2021

Name: M3211027A05
 Text: cat_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass



Quantify Sample Report

Sample List: C:\MASSLYNX\Default-pro\SAMPLEDB\M3211027A_1613_CALT
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNX\Default-pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211027A05
 Text: cs1_1613

53: Function 5 Lockmass

cs1_1613 27-Nov-2021

Lot 13CS11020 13:51:36

M3211027A05 Sm (SG, 2X2) F5

100 44.46 45.49 45.69 46.28 47.19 47.73 454.97 28

44.46 45.49 45.69 46.28 47.19 47.73 454.97 28

%m

0 45.00 46.00 47.00 Time

Quantity Sample Summary Report

Sample List: C:\MASSLYNX\Default-Pro\SAMPLEEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNX\Default-Pro\METHOD\BPA 1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 13:03:14 2021

Sample Name: M3211127A06 Sample ID: Lot 13CS21020

# Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RFlag	Response	Flags	pg	%Dev	%Rec	IS#	RRP
1 2,3,7,8-TCDF	24.670	62410	80857	143268	0.77	YES	1.869	bd	1.928	-4	96	18	0.934
2 1,2,3,7,8-PeCDF	32.034	307426	192224	499650	1.60	YES	9.563	bd	8.893	-1	59	19	0.956
3 2,3,4,7,8-PeCDF	33.674	329838	207632	537470	1.59	YES	10.755	bd	10.054	-1	101	20	0.975
4 1,2,3,4,7,8-HxCDF	38.138	300762	244218	544980	1.23	YES	11.353	bd	9.899	-1	99	21	1.135
5 1,2,3,6,7,8-HxCDF	38.272	312733	249053	561785	1.26	YES	11.021	bd	10.181	2	102	22	1.102
6 2,3,4,6,7,8-HxCDF	38.932	320759	252029	572789	1.27	YES	11.885	bd	10.167	2	102	23	1.188
7 1,2,3,7,8,9-HxCDF	39.758	272120	216722	488842	1.26	YES	11.011	bd	10.033	0	100	24	1.101
8 1,2,3,4,6,7,8-HpCDF	41.478	281392	270941	552333	1.04	YES	12.137	bd	10.080	-3	97	26	1.135
9 1,2,3,4,7,8,9-HpCDF	42.767	228812	221858	450670	1.03	YES	11.347	bd	9.662	-3	98	27	1.194
10 OCDF	45.475	317820	353460	671281	0.90	YES	23.873	bd	19.545	-2	90	27	1.113
11 2,3,7,8-TCDD	25.735	44255	52741	96996	0.84	YES	2.226	bd	1.791	-10	90	27	1.113
12 1,2,3,7,8-PeCDD	34.396	178778	110407	289185	1.62	YES	10.810	bd	9.820	-2	98	28	1.081
13 1,2,3,4,7,8-HxCDD	39.118	200828	153898	354726	1.30	YES	10.908	bd	9.901	-1	99	29	1.091
14 1,2,3,6,7,8-HxCDD	39.221	208668	162499	371167	1.28	YES	11.120	bd	10.009	0	100	30	1.112
15 1,2,3,7,8,9-HxCDD	39.551	202310	165485	367794	1.22	YES	11.019	bd	10.238	2	102	30	1.102
16 1,2,3,4,6,7,8-HpCDD	42.416	185129	179127	364256	1.03	YES	10.756	bd	10.030	0	100	31	1.076
17 OCDD	45.358	281165	297519	578684	0.94	YES	20.580	bd	19.700	-2	98	32	1.029
18 1,3C-2,3,7,8-TCDF	24.648	3375062	4291362	7666424	0.79	YES	209.451	bd	98.090	-2	98	33	2.095
19 1,3C-1,2,3,7,8-PeCDF	32.003	3219214	2005876	5235090	1.61	YES	142.752	bd	90.307	-10	90	33	1.428
20 1,3C-2,3,4,7,8-PeCDF	33.653	3080955	1916517	4997472	1.51	YES	135.534	bd	88.235	-12	88	33	1.365
21 1,3C-1,2,3,4,7,8-HxCDF	38.117	1643843	3156614	4800457	0.52	YES	143.743	bd	99.213	-1	99	34	1.437
22 1,3C-2,3,4,6,7,8-HxCDF	38.251	1697544	3399724	5097268	0.50	YES	125.201	bd	101.062	1	101	34	1.252
23 1,3C-1,2,3,7,8,9-HxCDF	39.747	1528756	2910975	4439731	0.52	YES	125.201	bd	99.603	-0	100	34	1.283
24 1,3C-1,2,3,4,6,7,8-HpCDF	41.467	1414716	315936	4550651	0.45	YES	112.006	bd	105.766	6	106	34	1.120
25 1,3C-1,2,3,4,7,8,9-HpCDF	42.757	1184144	2787685	3971829	0.81	YES	119.053	bd	103.901	4	104	33	1.191
26 1,3C-2,3,7,8-TCDD	25.712	1954302	2403333	4357635	1.53	YES	73.085	bd	89.529	-10	90	33	0.731
27 1,3C-1,2,3,7,8-PeCDD	34.375	1658700	1016401	2675101	1.31	YES	91.703	bd	100.387	0	100	34	0.917
28 1,3C-1,2,3,4,7,8-HxCDD	39.108	1845483	1406373	3251856	1.29	YES	94.129	bd	98.837	-1	99	34	0.941
29 1,3C-1,2,3,6,7,8-HxCDD	39.211	1878848	1459036	3337884	1.07	YES	95.500	bd	101.155	6	106	34	0.955
30 1,3C-1,2,3,4,6,7,8-HxCDD	42.406	1748630	1637895	3386524	0.92	YES	158.594	bd	211.147	18	82	34	0.793
31 1,3C-1,2,3,4,6,7,8-HpCDD	45.347	2686797	2937065	5623862	0.82	YES	3660247.875	bd	69.009	-31	69	0	35460.857
32 1,3C-OCDD	25.427	1654053	2006195	3546086	1.27	YES	4.507	bd	1.822	-9	91	33	2.254
33 1,3C-1,2,3,4-TCDD	39.541	1986693	1559392	164973	1.00	YES	-	-	1.944	-	-	18	-
34 1,3C-1,2,3,7,8,9-HxCDD	25.735	82486	82486	0	-	-	-	-	1.991	-	-	27	-
35 C137-2,3,7,8-TCDD	-	-	-	-	-	-	-	-	20.058	-	-	0	-
36 Totals Tetra-Furans	-	-	-	-	-	-	-	-	9.820	-	-	28	-
37 Totals Tetra-Dioxins	-	-	-	-	-	-	-	-	40.281	-	-	0	-
38 Totals Penta-Furans	-	-	-	-	-	-	-	-	30.148	-	-	0	-
39 Totals Penta-Dioxins	-	-	-	-	-	-	-	-	19.857	-	-	0	-
40 Totals Hexa-Furans	-	-	-	-	-	-	-	-	10.182	-	-	31	-
41 Totals Hexa-Dioxins	-	-	-	-	-	-	-	-	-	-	-	-	-
42 Totals Hepta-Furans	-	-	-	-	-	-	-	-	-	-	-	-	-
43 Totals Hepta-Dioxins	-	-	-	-	-	-	-	-	-	-	-	-	-

6 PPS

Quantity Sample Report

Sample Name: C:\MSDCHEM\Default.pro\SAFETY\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_stds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

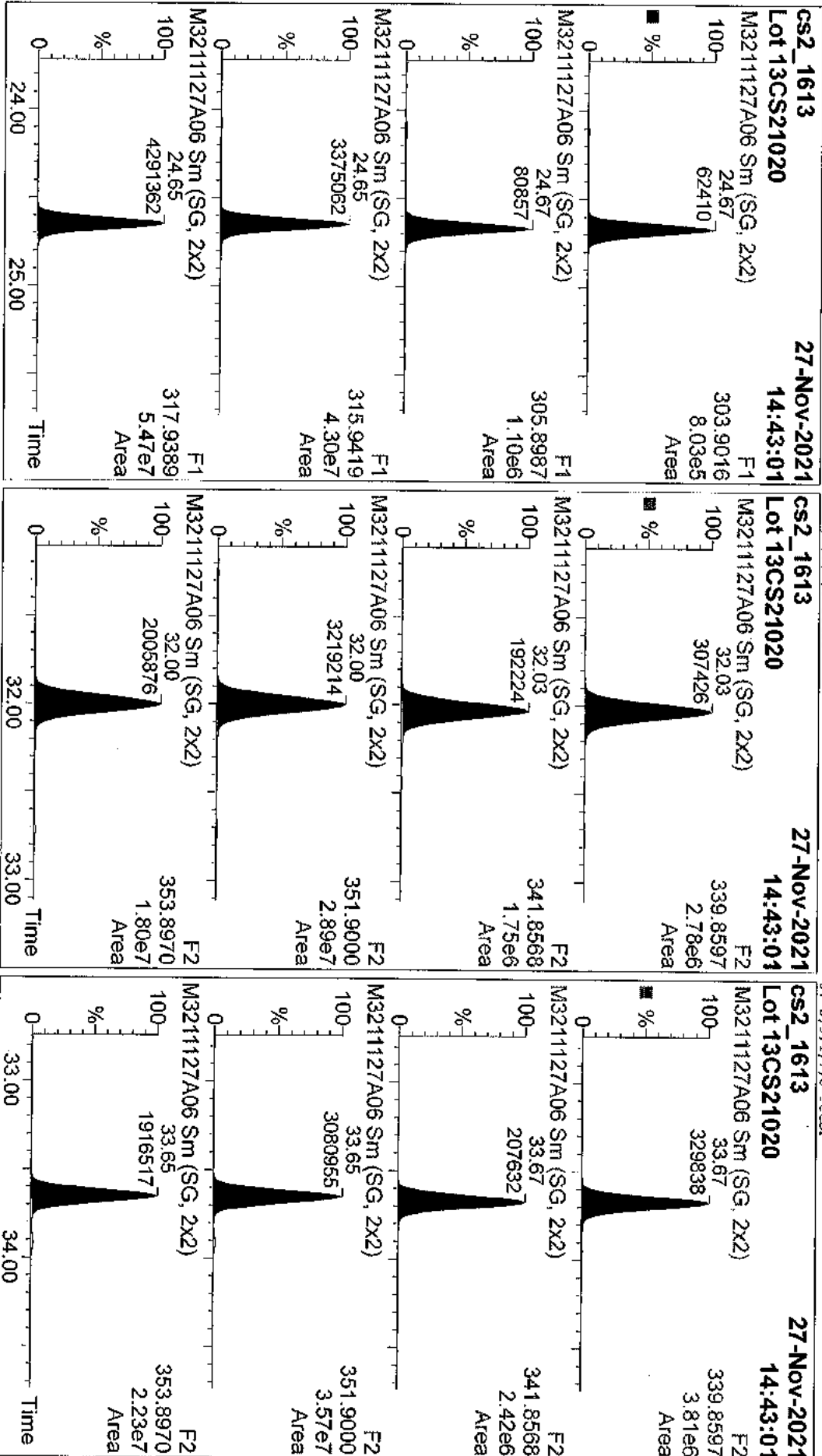
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A06
 Text: cs2_1613

1: 2,3,7,8-TCDF

2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF



Quantity Sample Report

Sample List: C:\MASSLITX\Default-pro\SAMPLEDB\M3211027A_1613_CAT
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLITX\Default-pro\METHOD\M3211127A_HC_acds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

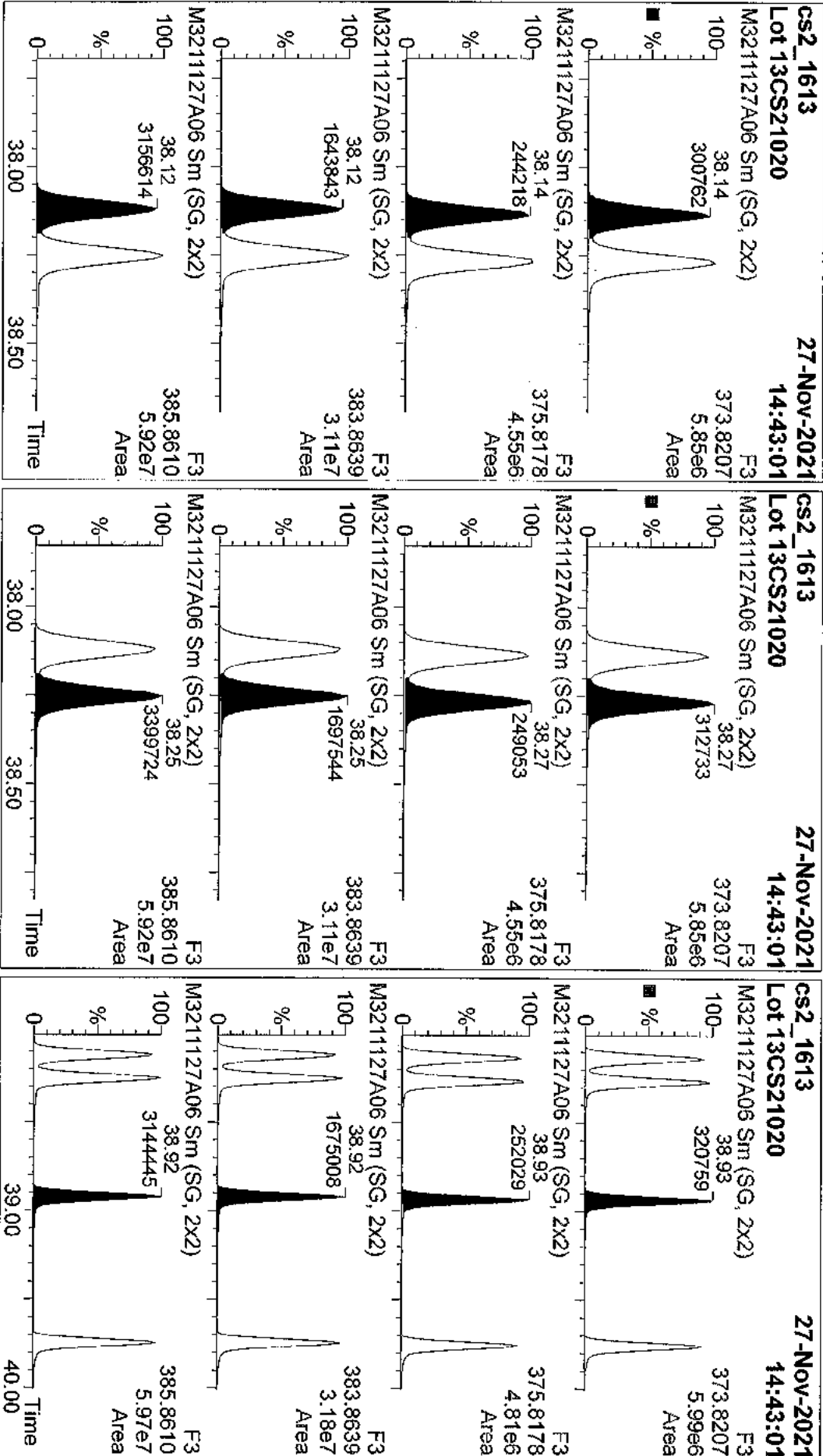
Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A06
 Text: cs2_1613

4: 1,2,3,4,7,8-HxCDF

5: 1,2,3,6,7,8-HxCDF

6: 2,3,4,6,7,8-HxCDF



Quantify Sample Report

Sample List: C:\MASSIVE\Default.pro\SMLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSIVE\Default.pro\METHODS\M321127A_EC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

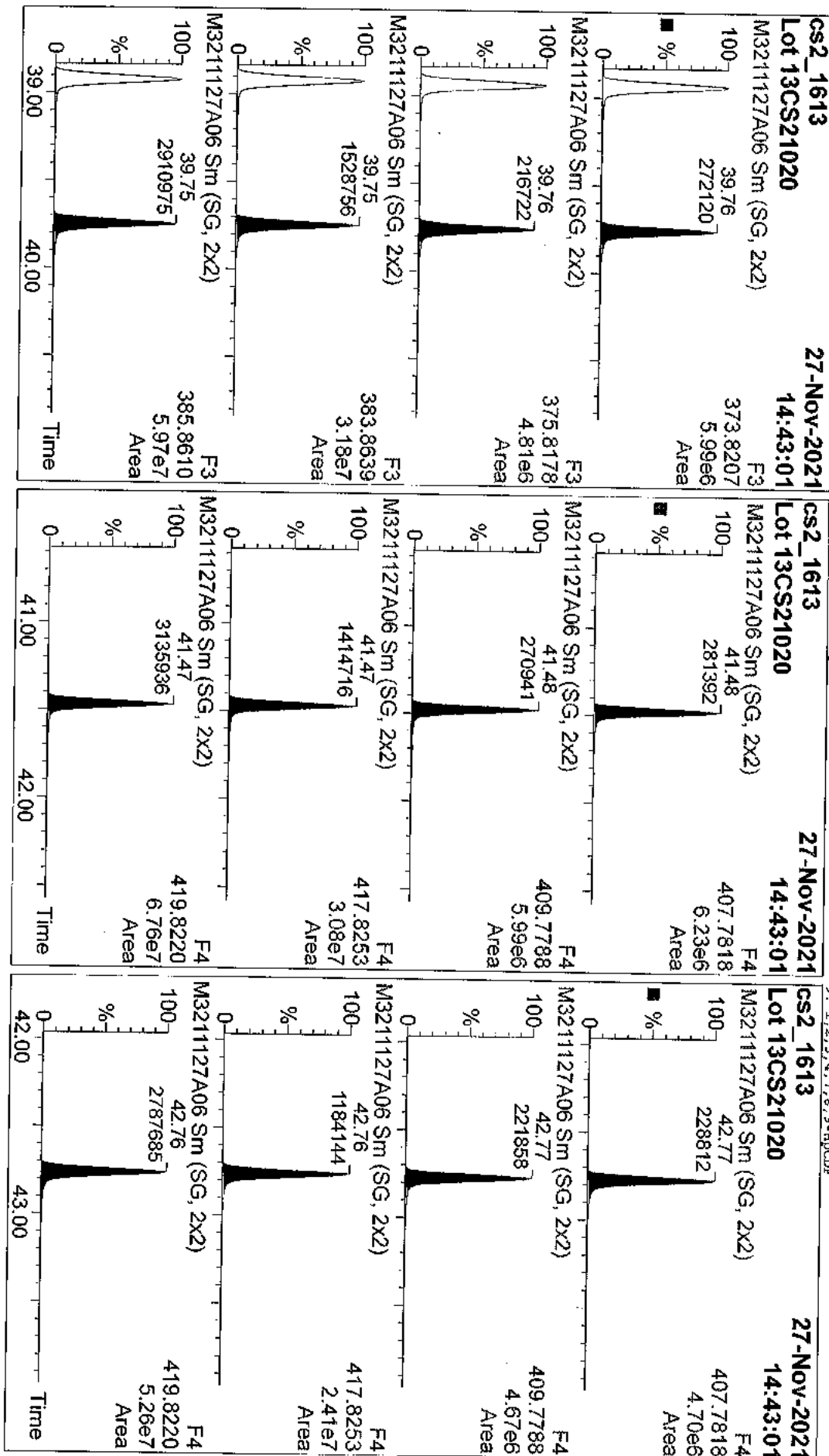
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A06
 Text: cs2_1613

7: 1,2,3,7,8,9-HxCDF

8: 1,2,3,4,6,7,8-HxCDF

9: 1,2,3,4,7,8,9-HxCDF



Quantify Sample Report

Sample List: C:\MASSLYNK\Default.pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNK\Default.pro\METHOD\M3211127A_HC_stdcs_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

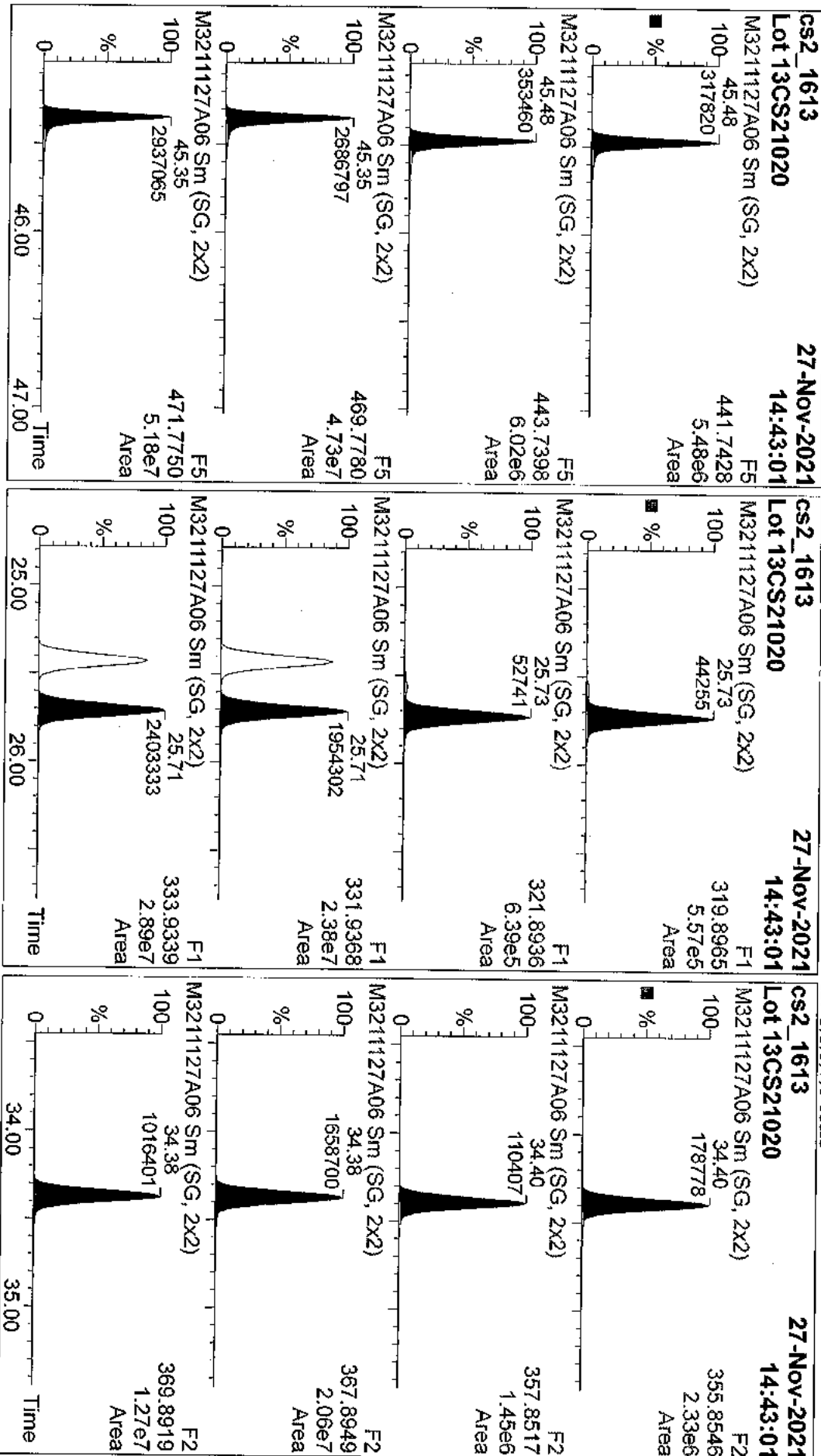
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A06
 Text: cs2_1613

10: OCPD

11: 2,3,7,8-TCDD

12: 1,2,3,7,8-PeCDD



Quantify Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAVEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_secs_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

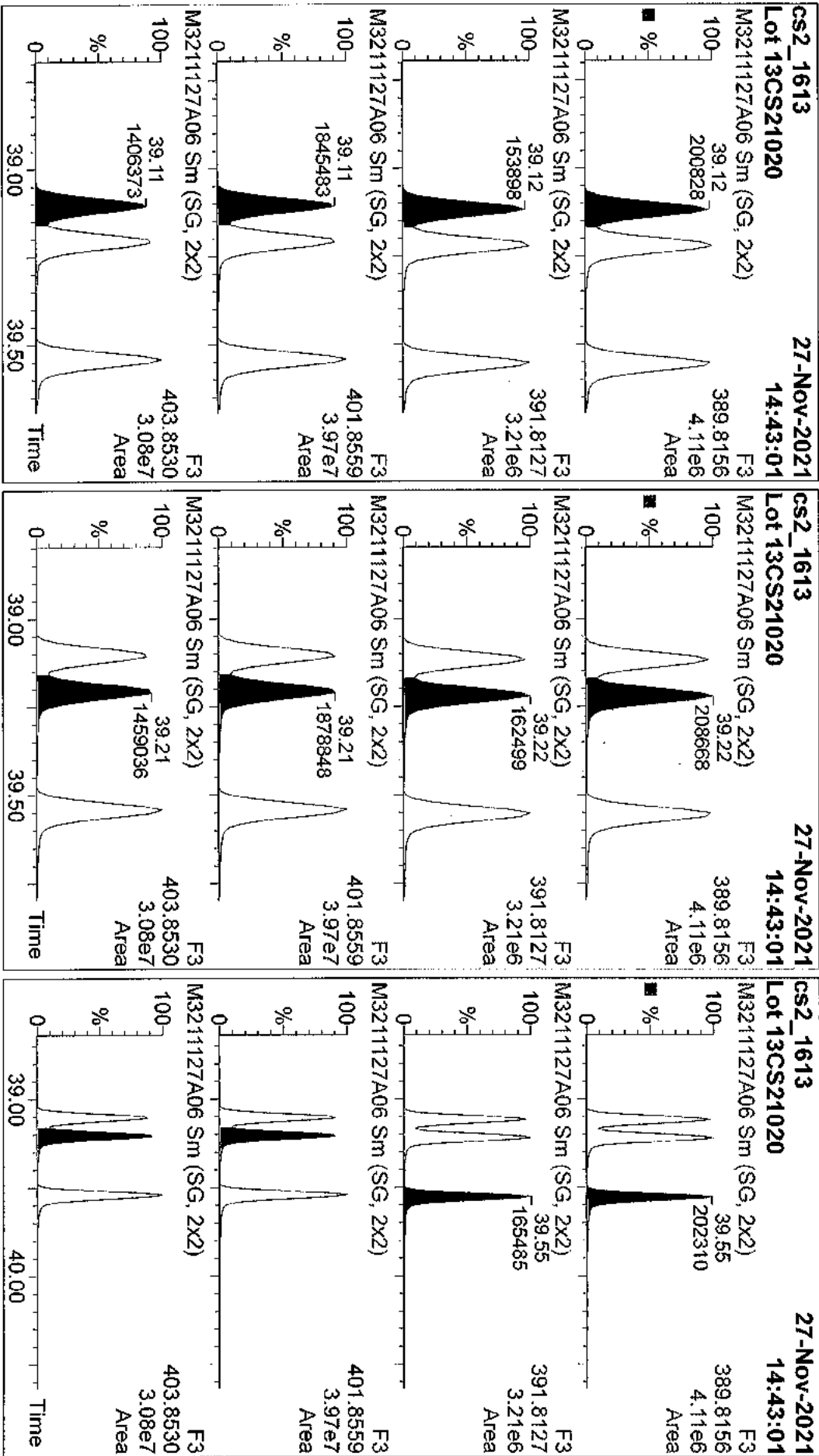
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A06
 Text: cs2_1613

13: 1,2,3,4,7,8-HxCDD

14: 1,2,3,6,7,8-HxCDD

15: 1,2,3,7,8,9-HxCDD



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

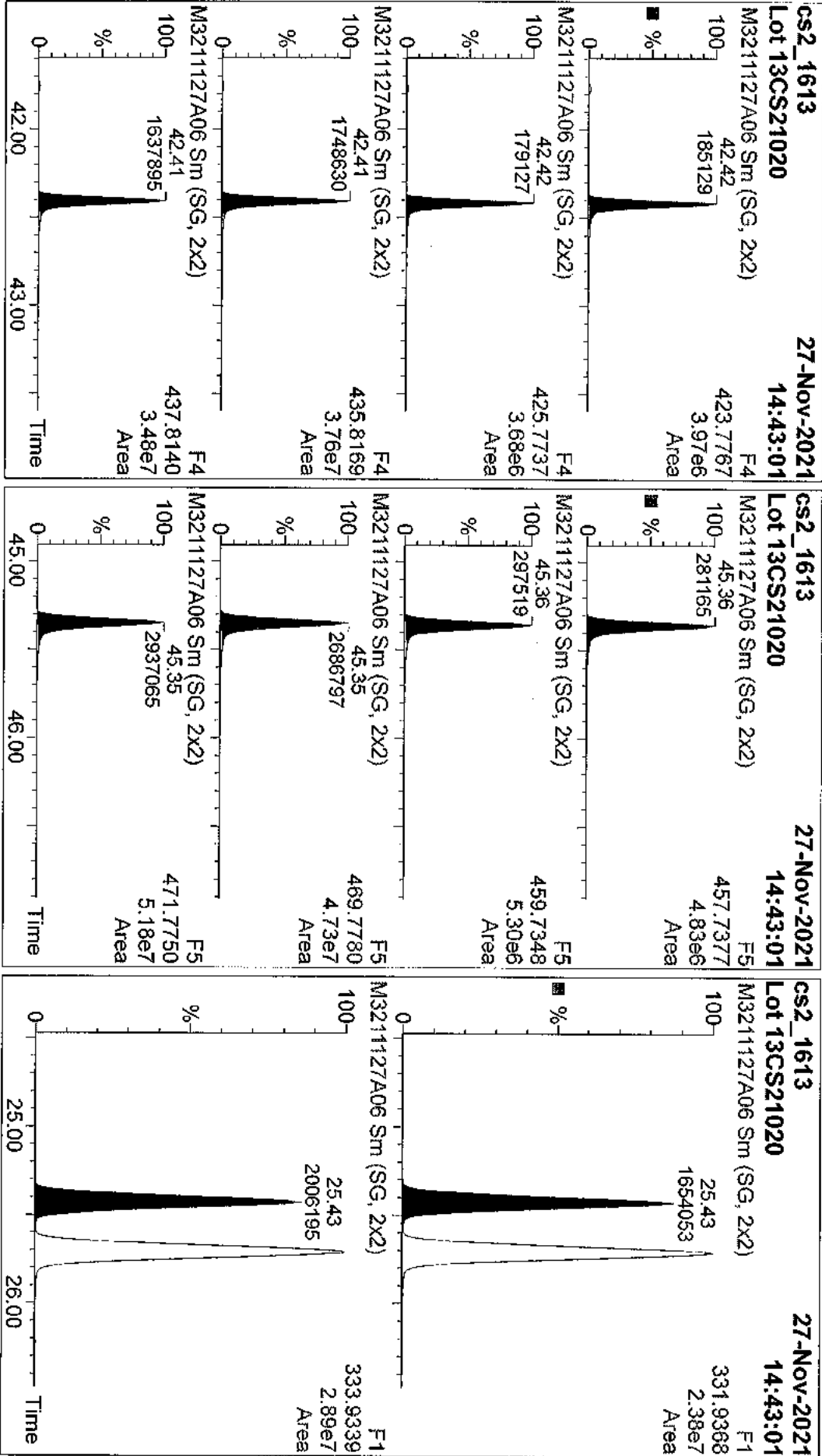
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A06
 Text: cs2_1613

16: 1,2,3,4,6,7,8-HPCDD

17: OCDD

33: 1,2,3,4-TCDD



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_sds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

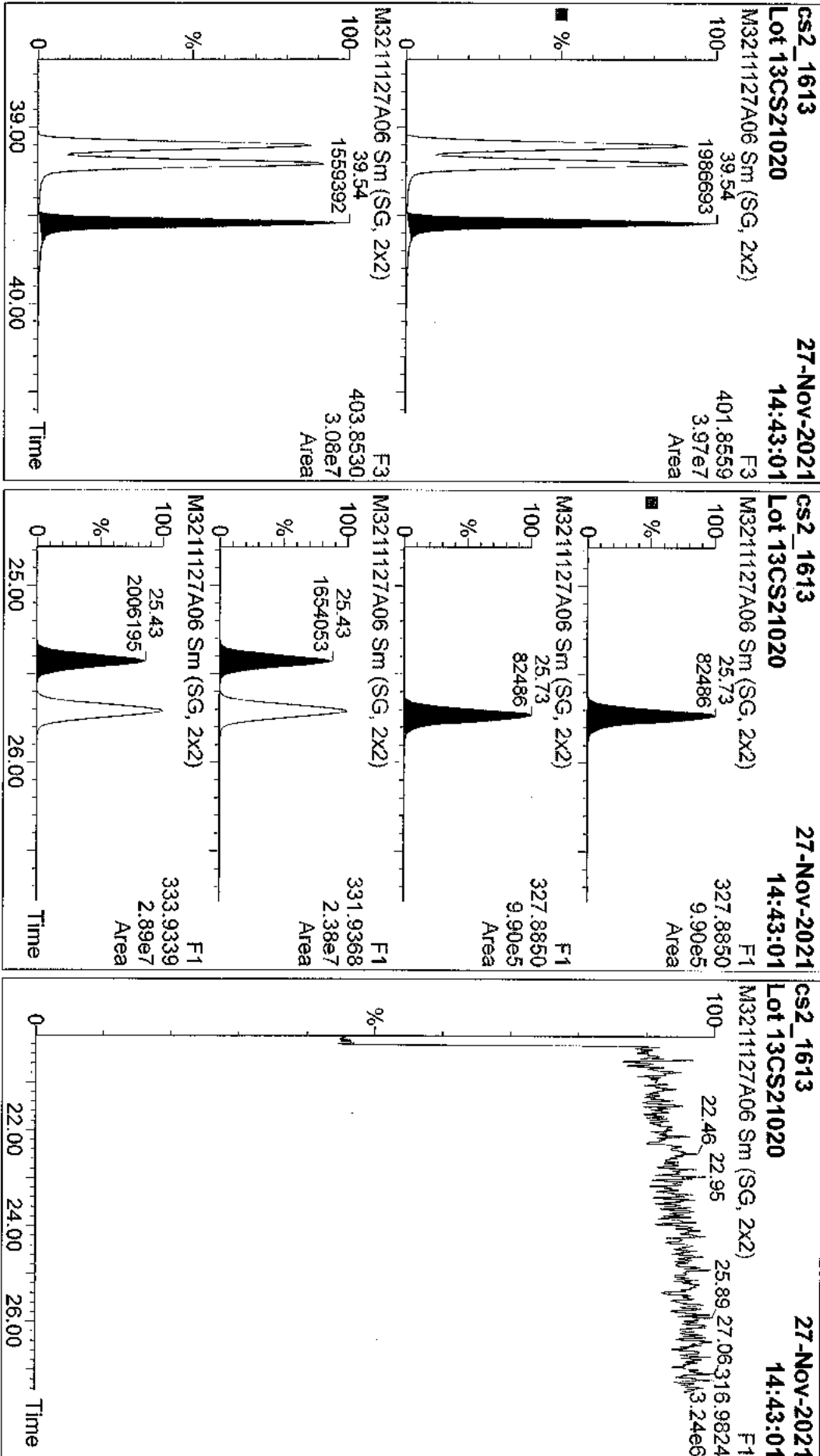
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A06
 Test: cs2_1613

34: 13C-1,2,3,7,8,9-HXCD

35: C137-2,3,7,8-TCDD

35: Function 1 Lockmass



Quantity Sample Report

Sample List: C:\MSI\XK\Default.pro\SAFILEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSI\XK\Default.pro\METHOD\M321127A_IC_secs_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

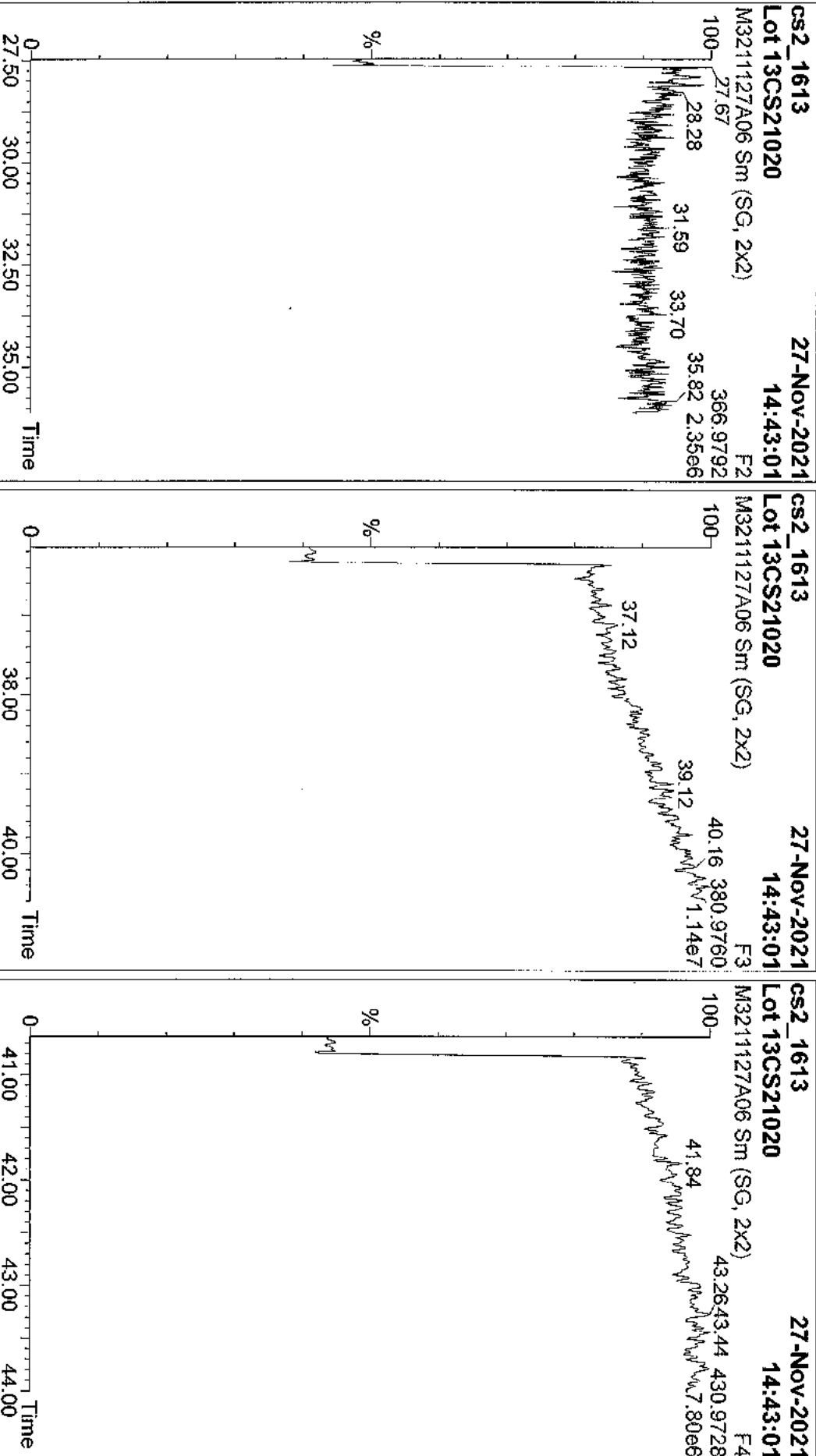
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A06
 Text: cs2_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass



Quantity Sample Report

Sample list: C:\MASSLTX\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M321127A06
 Text: cs2_1613

S2: Function 5 LockMass

cs2_1613 27-Nov-2021

Lot 13CS21020 14:43:01

M321127A06 Sm (SG, 2x2) F5

100 44.70 44.96 45.52 46.40 47.53 454.9728

44.70 44.96 45.52 46.40 47.53 454.9728

%

0 45.00 46.00 47.00 Time

Quantity Sample Summary Report

Sample List: C:\MASSLYNX\Default-Pro\SAMPLEEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNX\Default-Pro\METHODS\EPA_1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 13:03:14 2021

Sample Name: M3211127A07 Sample ID: Lot 13CS31019

# Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RFlay	Response	Flags	Pg	%Dev	%Rec	IS#	RRF
1 2,3,7,8-TCDF	24.659	427000	556518	983518	0.77	YES	10.370	bb	10.372	4	104	18	1.006
2 1,2,3,7,8-PeCDF	32.023	2126832	1357422	3484254	1.57	YES	50.176	bb	51.908	4	104	19	1.004
3 2,3,4,7,8-PeCDF	33.664	2286291	1459256	3745547	1.57	YES	55.850	bb	52.211	4	104	20	1.117
4 1,2,3,4,7,8-HxCDF	38.127	2118677	1709370	3828047	1.24	YES	59.912	bb	52.242	4	104	21	1.198
5 1,2,3,6,7,8-HxCDF	38.262	2181694	1734922	3916616	1.26	YES	56.651	bb	52.334	5	105	22	1.133
6 2,3,4,6,7,8-HxCDF	38.922	2186309	1752452	3938761	1.25	YES	60.161	bb	51.466	3	103	23	1.203
7 1,2,3,7,8,9-HxCDF	39.747	1932011	1545656	3477666	1.25	YES	56.246	bb	51.249	2	102	24	1.125
8 1,2,3,4,6,7,8-HpCDF	41.467	2000640	1942057	3942697	1.03	YES	62.873	bb	52.215	4	104	25	1.257
9 1,2,3,4,7,8,9-HpCDF	42.757	1586065	1541312	3127376	1.03	YES	60.232	bb	51.291	3	103	26	1.205
10 OCDF	45.465	2187399	2423800	4611199	0.90	YES	131.732	bb	107.852	8	108	32	1.317
11 2,3,7,8-TCDD	25.723	288788	363390	652178	0.80	YES	12.940	bb	10.413	4	104	27	1.294
12 1,2,3,7,8-PeCDD	34.386	1239411	776110	2015521	1.60	YES	56.976	bb	51.758	4	104	28	1.140
13 1,2,3,4,7,8-HxCDD	39.107	1405733	1103032	2508764	1.27	YES	56.764	bb	51.522	3	103	29	1.135
14 1,2,3,6,7,8-HxCDD	39.211	1473316	1148610	2621926	1.28	YES	57.415	bb	51.679	3	103	30	1.148
15 1,2,3,7,8,9-HxCDD	39.541	1426257	1137584	2563841	1.25	YES	56.143	bb	52.163	4	104	31	1.101
16 1,2,3,4,6,7,8-HpCDD	42.406	1294486	1239530	2534016	1.04	YES	55.040	bb	51.322	3	103	32	1.119
17 OCDD	45.958	1903570	2013796	3917365	0.94	YES	111.911	bb	107.126	7	107	33	1.161
18 13C-2,3,7,8-TCDF	24.637	4334179	5446715	9780894	0.80	YES	216.059	bb	101.185	1	101	33	2.161
19 13C-1,2,3,7,8-PeCDF	31.992	4272350	2671723	6944073	1.60	YES	153.394	bb	97.039	-3	97	33	1.534
20 13C-2,3,4,7,8-PeCDF	33.643	4110746	2595677	6706423	1.58	YES	148.144	bb	95.738	-4	96	33	1.481
21 13C-1,2,3,4,7,8-HxCDF	38.107	2205713	4183770	6389482	0.53	YES	132.280	bb	98.481	-2	98	34	1.323
22 13C-2,3,4,6,7,8-HxCDF	38.241	2306282	4607280	6913561	0.50	YES	143.129	bb	98.789	-1	99	34	1.431
23 13C-1,2,3,7,8,9-HxCDF	39.737	2116372	4281844	6547081	0.53	YES	135.542	bb	100.809	1	101	34	1.355
24 13C-2,3,4,6,7,8-HxCDF	41.457	1958435	4312453	6182975	0.52	YES	128.004	bb	101.833	2	102	34	1.280
25 13C-1,2,3,4,6,7,8-HpCDF	42.746	1604070	3588117	6270867	0.45	YES	129.824	bb	101.645	2	102	34	1.298
26 13C-2,3,7,8-TCDD	25.701	2217259	2822673	5192187	0.45	YES	107.492	bb	101.504	2	102	34	1.075
27 13C-1,2,3,7,8-PeCDD	34.355	2192618	1444847	3537465	0.79	YES	111.332	bb	97.162	-3	97	33	1.113
28 13C-2,3,4,7,8-PeCDD	39.097	2505998	1913648	4419646	1.63	YES	78.142	bb	95.724	-4	96	33	0.781
29 13C-1,2,3,4,7,8-HxCDD	39.200	2587328	1979299	4566627	1.31	YES	94.542	bb	100.164	0	100	34	0.915
30 13C-1,2,3,6,7,8-HxCDD	42.396	2378392	2225588	4633980	1.07	YES	95.315	bb	99.270	-1	99	34	0.945
31 13C-1,2,3,4,6,7,8-HpCDD	45.347	3365458	3635426	7000884	0.93	YES	144.937	bb	100.958	-4	96	34	0.953
32 13C-OCDD	25.416	2072577	2454381	4526958	0.84	YES	4830287.750	bb	101.303	1	101	0	45269.584
33 13C-1,2,3,4-TCDD	39.530	2712227	2118061	4830288	1.28	YES	25.707	bb	94.001	-6	94	0	48302.878
34 13C-1,2,3,7,8,9-HxCDD	25.723	581867	581867	1163734	1.00	YES	-	bb	10.393	4	104	33	2.571
35 Cl37-2,3,7,8-TCDD	-	0	0	0	-	-	-	-	10.558	-	-	18	-
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	10.595	-	-	27	-
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	105.075	-	-	0	-
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	51.882	-	-	28	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	207.564	-	-	0	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	155.552	-	-	30	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	104.043	-	-	0	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	51.993	-	-	31	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	-

6 Pts.

Quantity Sample Report

Sample List: C:\MASSIVE\Default.pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSIVE\Default.pro\METHOD\M321127A_HC_stds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

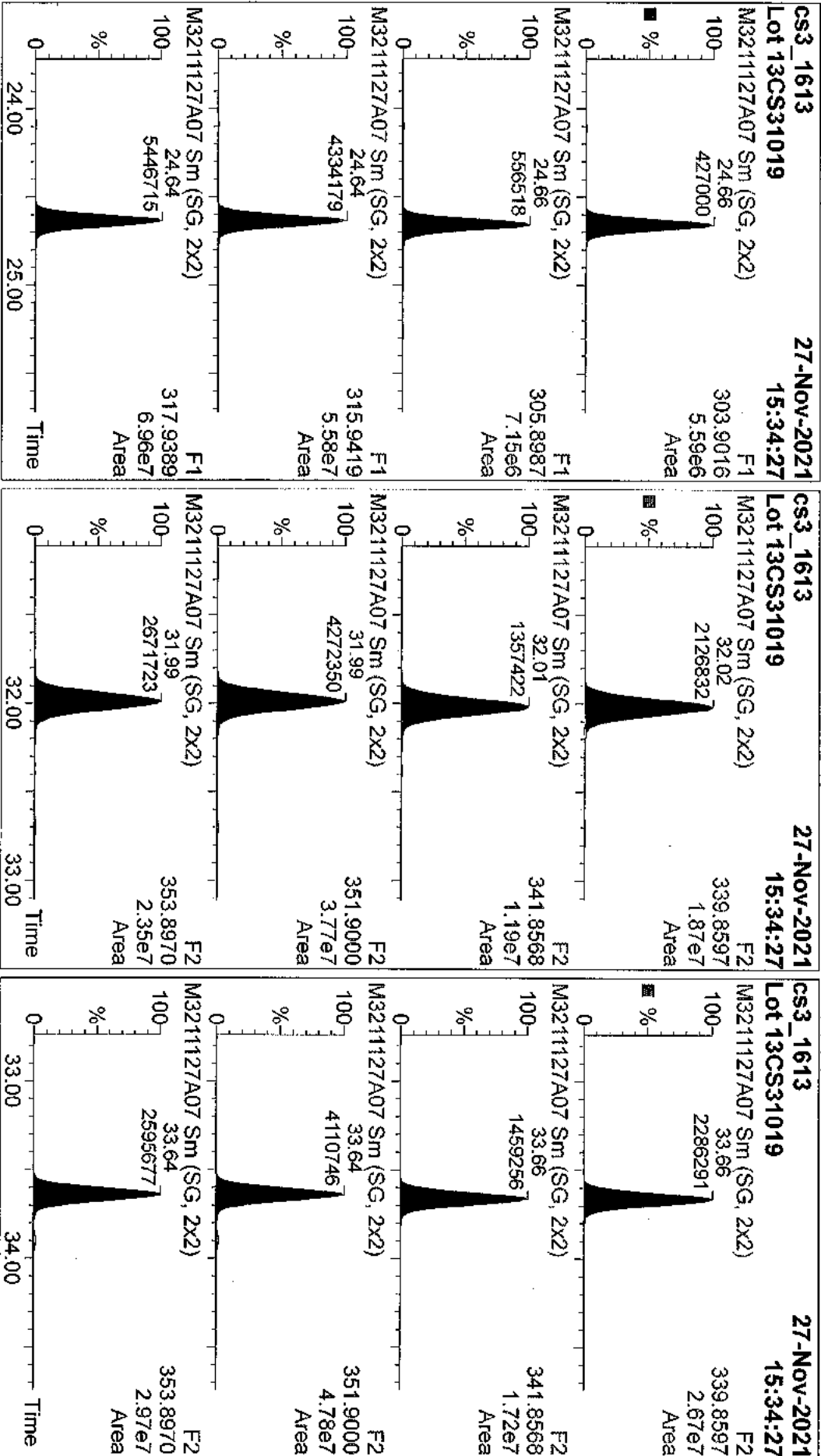
Printed: Mon Nov 29 13:05:13 2021

Name: M321127A07
 Text: cs3_1613

1: 2,3,7,8-TCDF

2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF



Quantity Sample Report

Sample Name: C:\MSDCHEM\Default.pro\SAFETY\MS21127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\MS21127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: MS21127A07
 Text: cs3_1613

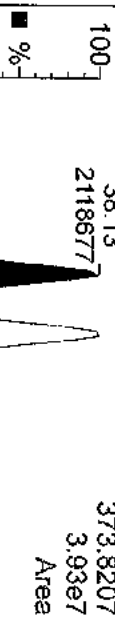
4: 1,2,3,4,7,8-HxCDF

5: 1,2,3,6,7,8-HxCDF

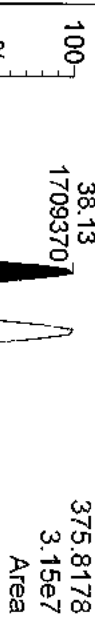
6: 2,3,4,6,7,8-HxCDF

cs3_1613 27-Nov-2021
 Lot 13CS31019 15:34:27

M3211127A07 Sm (SG, 2x2)



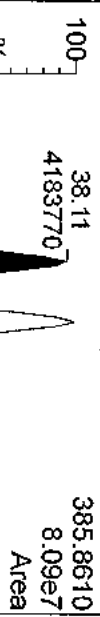
M3211127A07 Sm (SG, 2x2)



M3211127A07 Sm (SG, 2x2)

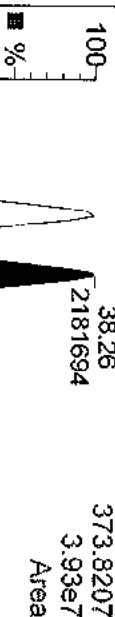


M3211127A07 Sm (SG, 2x2)

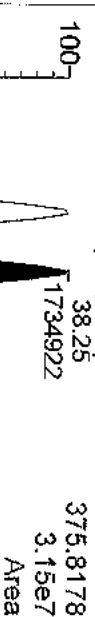


cs3_1613 27-Nov-2021
 Lot 13CS31019 15:34:27

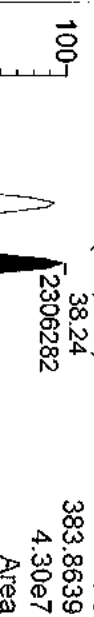
M3211127A07 Sm (SG, 2x2)



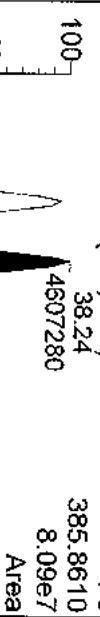
M3211127A07 Sm (SG, 2x2)



M3211127A07 Sm (SG, 2x2)

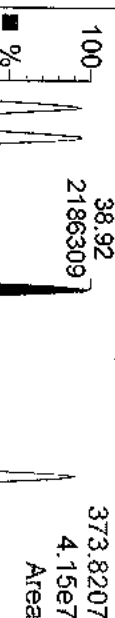


M3211127A07 Sm (SG, 2x2)

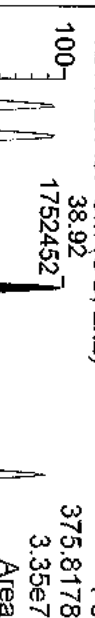


cs3_1613 27-Nov-2021
 Lot 13CS31019 15:34:27

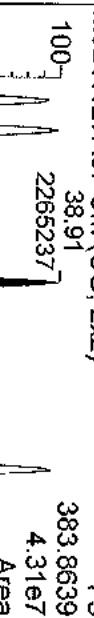
M3211127A07 Sm (SG, 2x2)



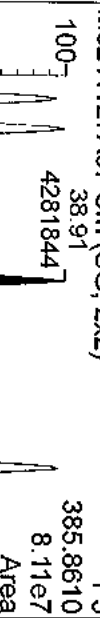
M3211127A07 Sm (SG, 2x2)



M3211127A07 Sm (SG, 2x2)



M3211127A07 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSSTN\Default-pro\SAMPLES\M3211027A_1613_CALL
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSSTN\Default-pro\METHOD\M3211027A_HC_acds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M321127A07
 Text: cs3_1613

7: 1,2,3,7,8,9-HxCDF

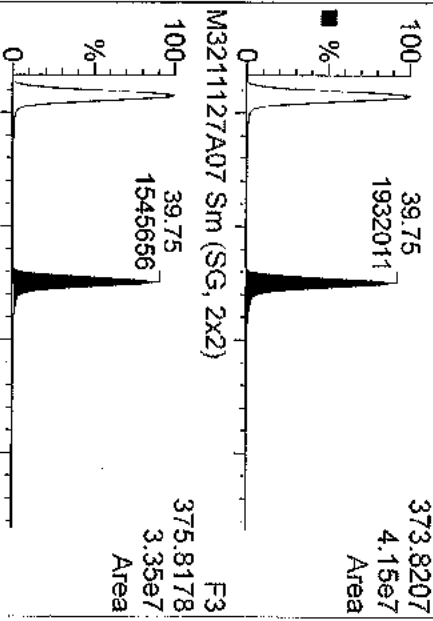
8: 1,2,3,4,6,7,8-HxCDF

9: 1,2,3,4,7,8,9-HxCDF

cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)

375.8178
3.35e7
Area

1546656
3.35e7
Area

39.74
4.31e7
Area

2116372
4.31e7
Area

383.8639
4.31e7
Area

39.74
8.11e7
Area

4066602
8.11e7
Area

385.8610
8.11e7
Area

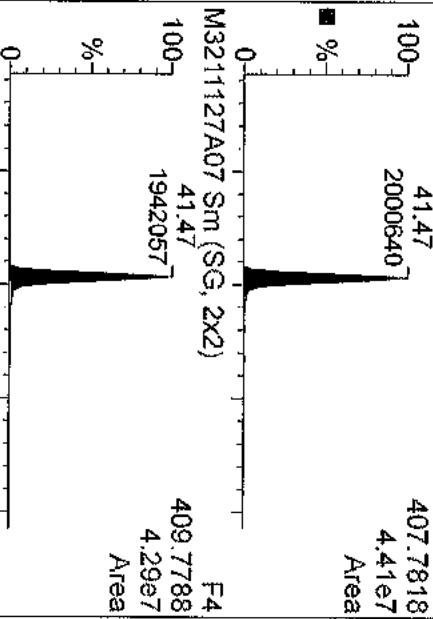
39.74
8.11e7
Area

39.00
40.00
Time

cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)

409.7788
4.29e7
Area

1942057
4.29e7
Area

41.46
4.30e7
Area

1958435
4.30e7
Area

417.8253
4.30e7
Area

41.46
9.48e7
Area

4312433
9.48e7
Area

419.8220
9.48e7
Area

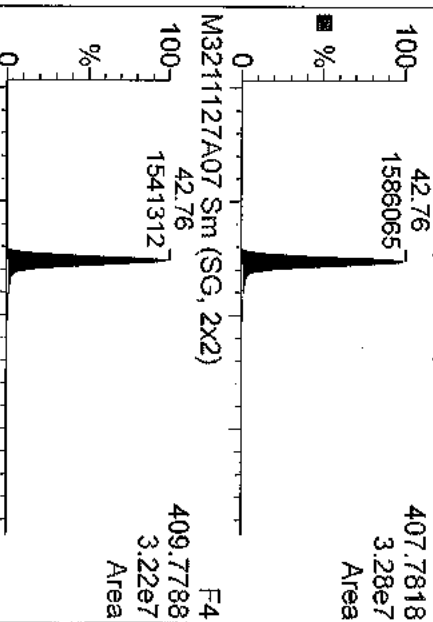
41.46
9.48e7
Area

41.00
42.00
Time

cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)

409.7788
3.22e7
Area

1541312
3.22e7
Area

42.75
3.28e7
Area

1604070
3.28e7
Area

417.8253
3.28e7
Area

42.75
7.32e7
Area

3588117
7.32e7
Area

419.8220
7.32e7
Area

42.75
7.32e7
Area

42.00
43.00
Time

Quantify Sample Report

Sample Name: C:\MSDCHEM\Default.pro\SMPLT02\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211027A_HC_stds_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

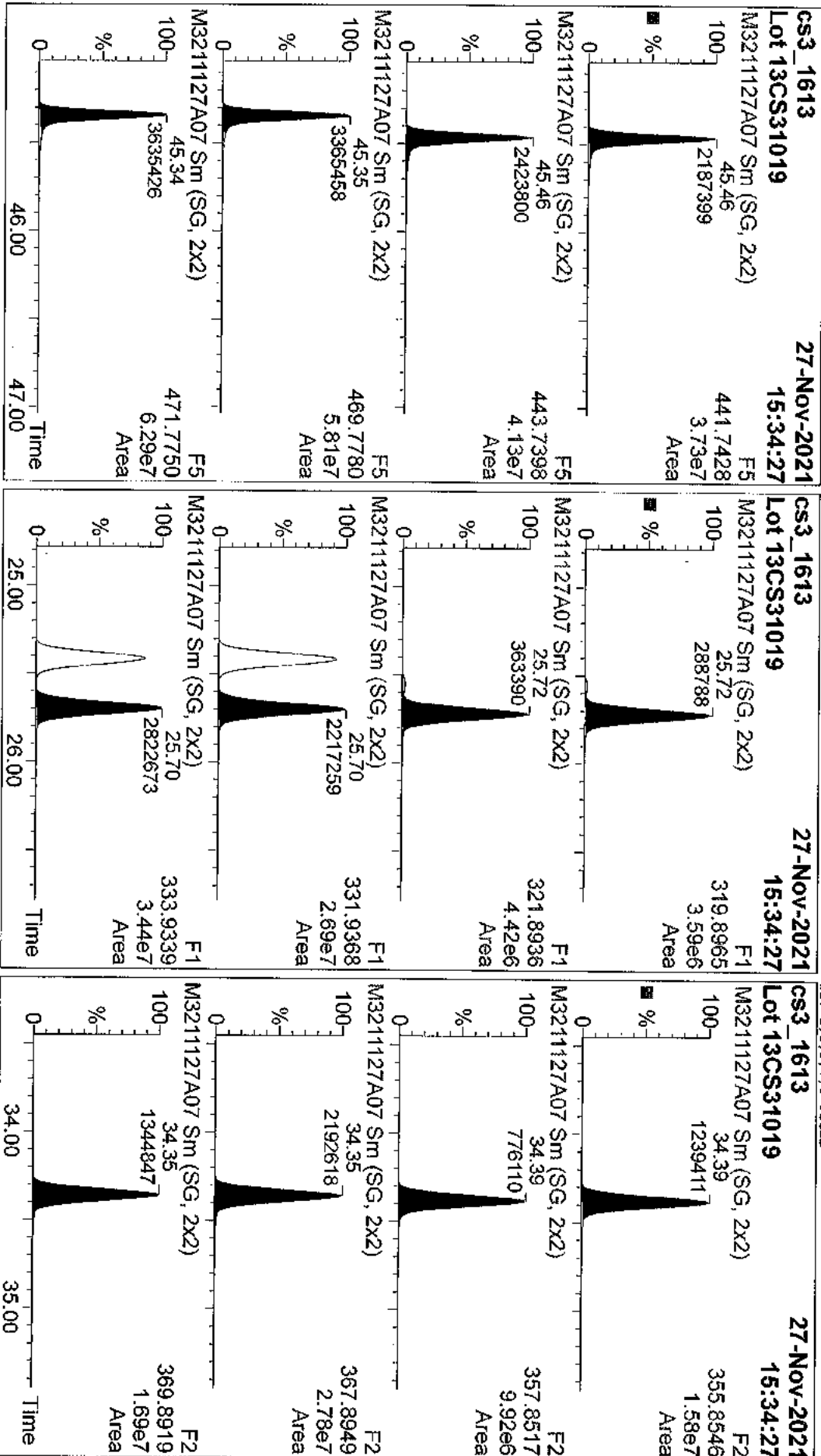
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A07
 Text: cs3_1613

10: OGD

11: 2,3,7,8-TCDD

12: 1,2,3,7,8-PeCDD



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M321127A07
 Text: cs3_1613

13: 1,2,3,4,7,8-HxCDD

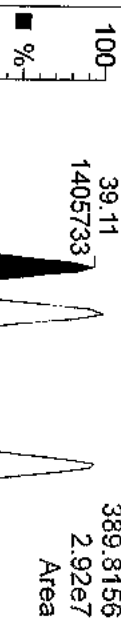
14: 1,2,3,6,7,8-HxCDD

15: 1,2,3,7,8,9-HxCDD

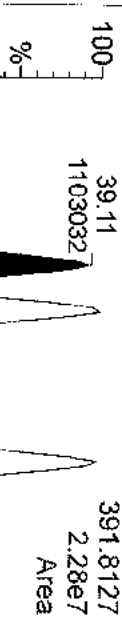
cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

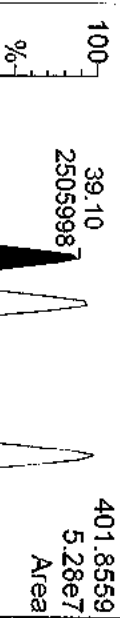
M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)



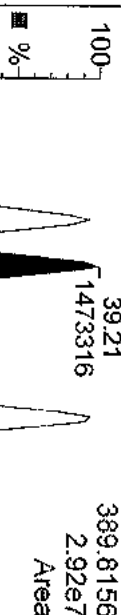
M321127A07 Sm (SG, 2x2)



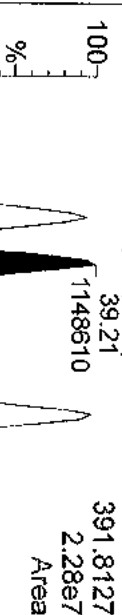
cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

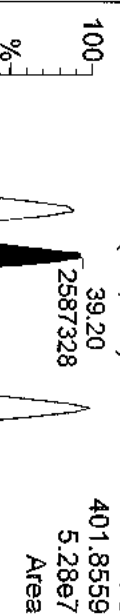
M321127A07 Sm (SG, 2x2)



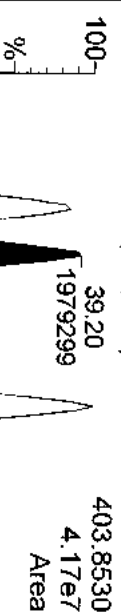
M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)



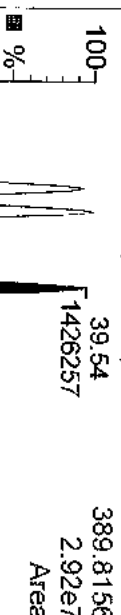
M321127A07 Sm (SG, 2x2)



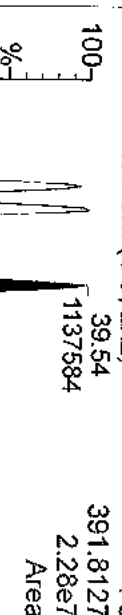
cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

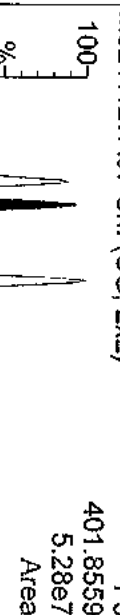
M321127A07 Sm (SG, 2x2)



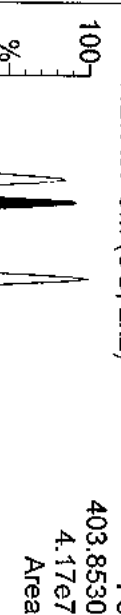
M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)



M321127A07 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAFEXDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A07
 Text: cs3_1613

16: 1,2,3,4,5,7,8-HPDOD

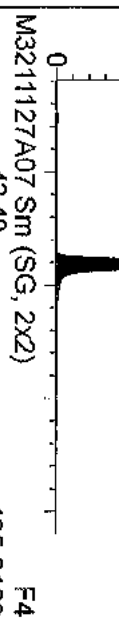
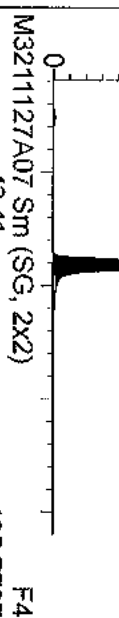
17: OCPD

33: 13C-1,2,3,4-TCDD

cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

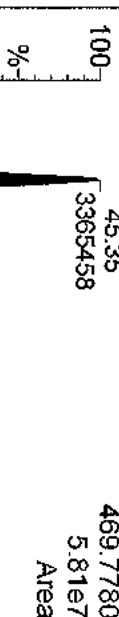
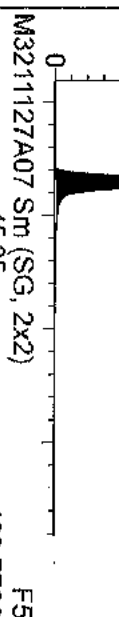
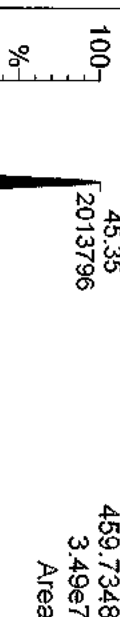
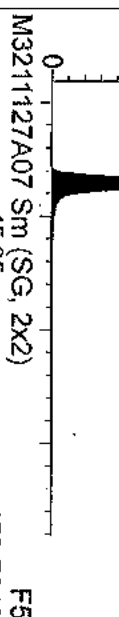
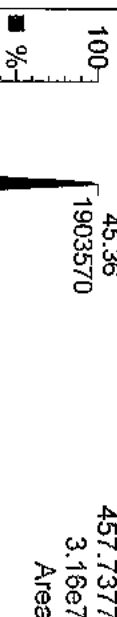
M3211127A07 Sm (SG, 2x2)



cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

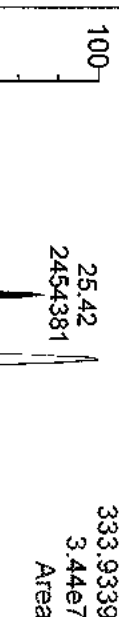
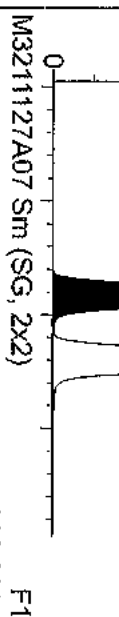
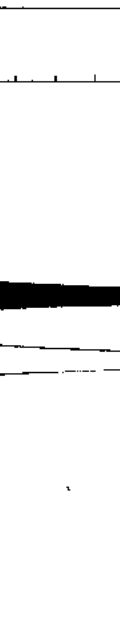
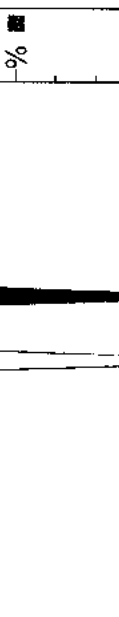
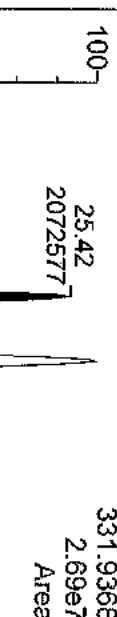
M3211127A07 Sm (SG, 2x2)



cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

M3211127A07 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-Pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-Pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A07
 Text: cs3_1613

34: 13C-1,2,3,7,8,9-HXCD

35: C137-2,3,7,8-TCDD

39: Function 1 Lockmass

cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

M3211127A07 Sm (SG, 2x2)

39.53 401.8559 5.28e7

2712227 F3 Area

cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

M3211127A07 Sm (SG, 2x2)

25.72 327.8850 7.19e6

581867 F1 Area

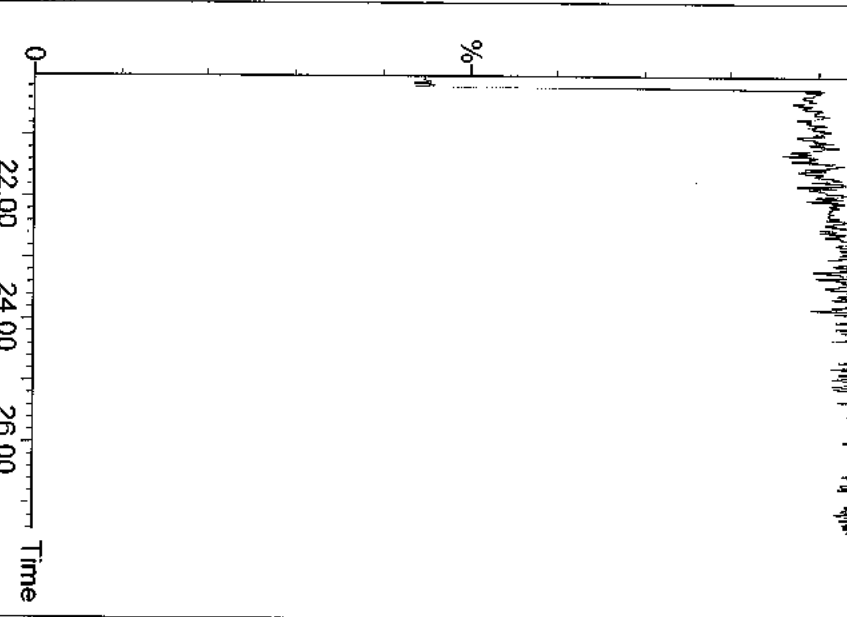
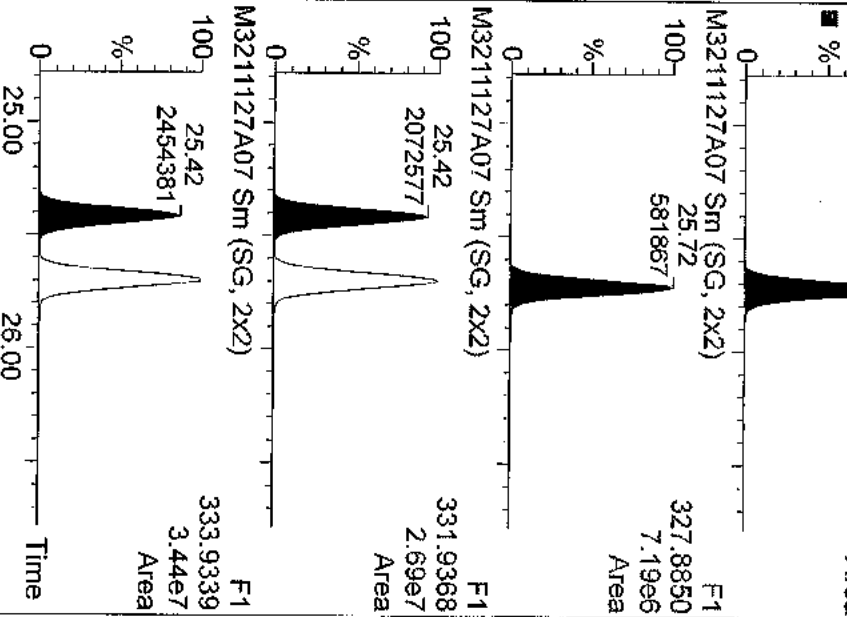
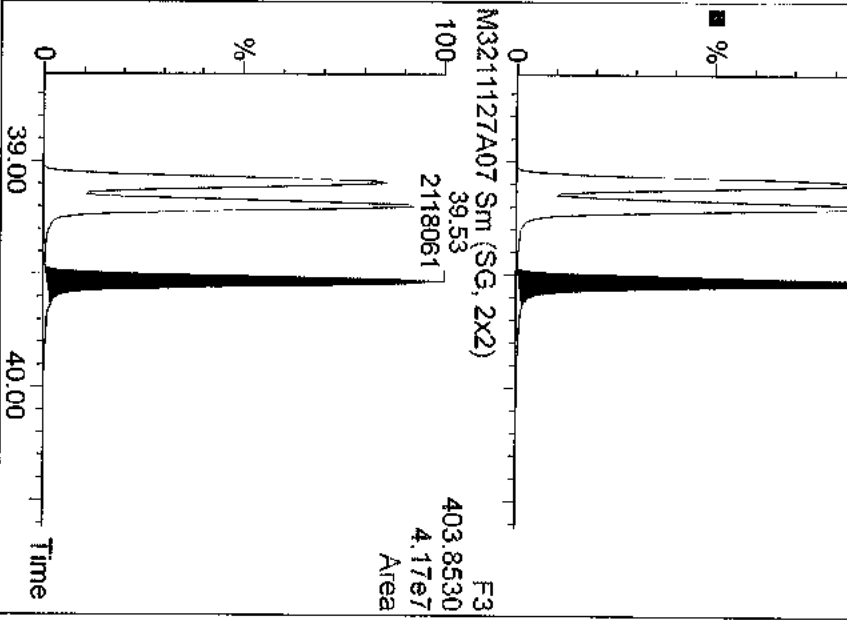
cs3_1613 27-Nov-2021 15:34:27

Lot 13CS31019

M3211127A07 Sm (SG, 2x2)

21.94 22.95 24.41 26.00 316.9824 3.26e6

21.94 22.95 24.41 26.00 316.9824 3.26e6



Quantify Sample Report

Sample List: C:\MASSIVE\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSIVE\Default.pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

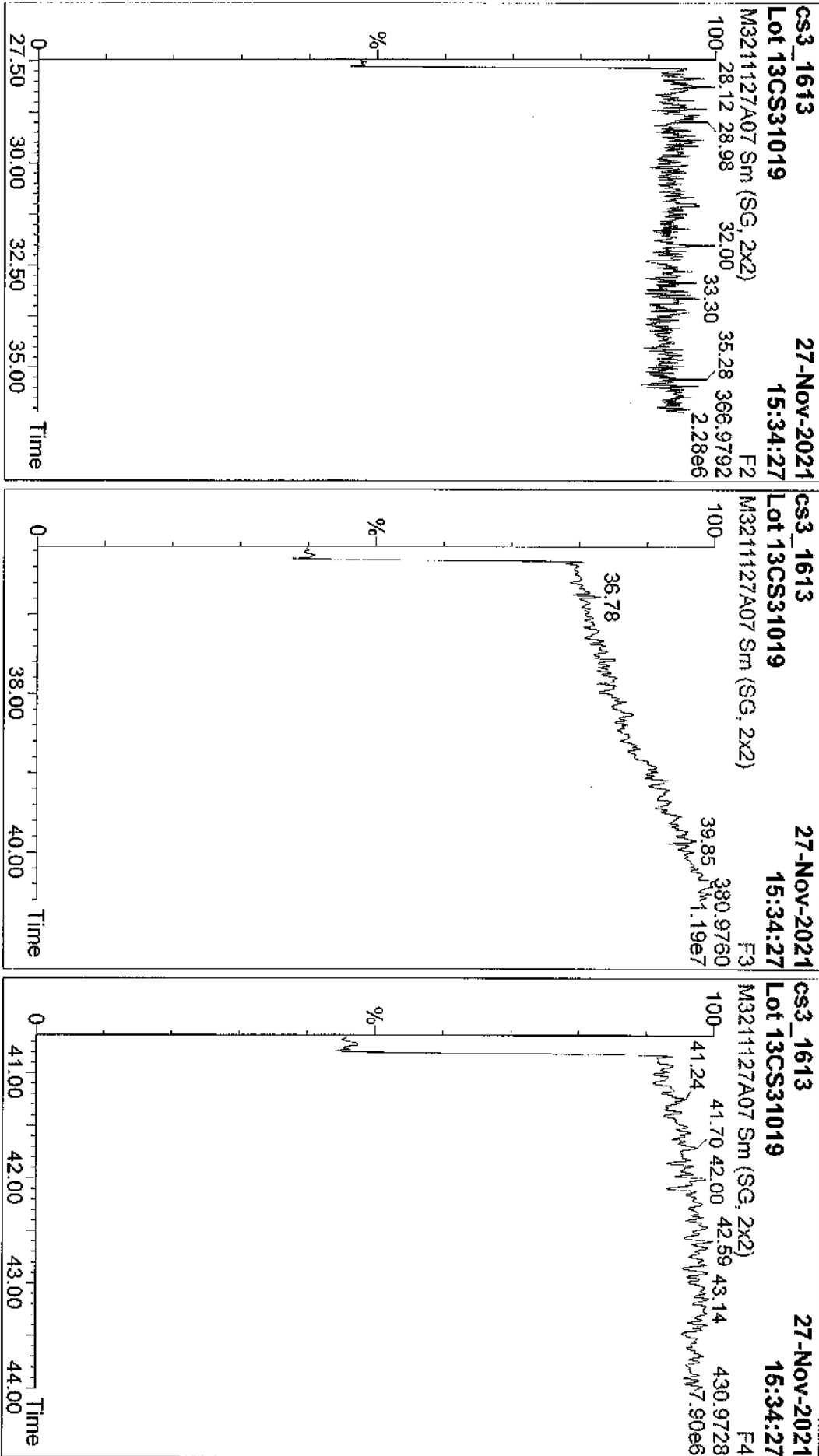
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A07
 Text: cs3_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211027A_1613_CALI
Last modified: Mon Nov 29 09:57:39 2021
Method: C:\MSDCHEM\Default.pro\METHODS\M3211027A_HC_std_1613
Last modified: Mon Nov 29 13:05:57 2021
Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211027A07
Text: cs3_1613

S3: Function 5 Lockmass

cs3_1613 27-Nov-2021

Lot 13CS31019 15:34:27

M3211027A07 Sm (SG, 2x2) F5

100 44.76 45.45 46.49 47.36 454.9728 5.06e6



0 45.00 46.00 47.00 Time

Quantify Sample Summary Report

Sample List: C:\MASSL\XN\Default-Pro\SAMPLEEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\XN\Default-Pro\METHOD\EPA 1613B_M32111127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 13:03:14 2021

Sample Name: M3211127A08 Sample ID: Lot 13CS41019

#	Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RFlag	Response	Flags	Pg	%Dev	%Rec	IS#	RRF
1	2,3,7,8-TCDF	24.659	1942257	2506272	4448529	0.77	YES	40.348	bb	41.619	4	104	18	1.009
2	1,2,3,7,8-PeCDF	32.023	10010515	6421517	16432032	1.56	YES	201.987	bb	208.959	4	104	19	1.010
3	2,3,4,7,8-PeCDF	33.674	10753675	6958247	17711922	1.54	YES	223.953	bb	209.360	5	105	20	1.120
4	1,2,3,4,7,8-HxCDF	38.127	10226387	8243262	18466649	1.24	YES	237.986	bb	207.522	4	104	21	1.190
5	1,2,3,6,7,8-HxCDF	38.262	10337926	8303462	18641388	1.25	YES	220.140	db	203.365	2	102	22	1.101
6	2,3,4,6,7,8-HxCDF	38.932	10328070	8260358	18588428	1.25	YES	241.370	bb	206.489	3	103	23	1.207
7	1,2,3,7,8,9-HxCDF	39.757	8900491	7149181	16049672	1.25	YES	225.378	bb	205.356	3	103	24	1.127
8	1,2,3,4,6,7,8-HpCDF	41.478	9235072	8988621	18223693	1.03	YES	249.990	bb	207.613	4	104	25	1.250
9	1,2,3,4,7,8,9-HpCDF	42.767	7669170	7435117	15084287	1.03	YES	245.261	bb	208.853	4	104	26	1.226
10	OCDF	45.476	10820188	12298529	23118717	0.88	YES	537.436	bb	440.012	10	110	32	1.344
11	2,3,7,8-TCDD	25.723	1377347	1745998	3123345	0.79	YES	53.407	db	42.978	7	107	27	1.335
12	1,2,3,7,8-PeCDD	34.386	5988393	3763015	9751408	1.59	YES	228.002	bb	207.121	4	104	28	1.140
13	1,2,3,4,7,8-HxCDD	39.118	6757837	5226357	11984194	1.29	YES	230.457	bb	209.176	5	105	29	1.152
14	1,2,3,6,7,8-HxCDD	39.221	6910521	5591972	12502493	1.24	YES	227.380	db	204.665	2	102	30	1.137
15	1,2,3,7,8,9-HxCDD	39.551	6849226	5445022	12294248	1.26	YES	223.593	bb	207.744	4	104	30	1.118
16	1,2,3,4,6,7,8-HpCDD	42.416	6164902	5874810	12039712	1.05	YES	219.778	bb	204.934	2	102	31	1.099
17	OCDD	45.358	8813708	9795149	18608857	0.90	YES	432.596	bb	414.101	4	104	32	1.081
18	1,3C-2,3,7,8-TCDF	24.637	4875176	6150306	11025482	0.79	YES	207.522	bb	97.187	3	97	33	2.075
19	1,3C-1,2,3,7,8-TCDF	31.992	5009985	3125214	8135199	1.60	YES	153.121	bb	96.866	3	97	33	1.531
20	1,3C-2,3,4,7,8-PeCDF	33.643	4869598	3039159	7908757	1.60	YES	148.859	bb	96.200	4	96	33	1.489
21	1,3C-1,2,3,4,7,8-HxCDF	38.117	2690222	5070597	7760819	0.53	YES	132.653	bb	98.759	1	99	34	1.327
22	1,3C-1,2,3,6,7,8-HxCDF	38.251	2928881	5539091	8467972	0.53	YES	144.741	dd	99.901	0	100	34	1.447
23	1,3C-2,3,4,6,7,8-HxCDF	38.922	2659363	5041841	7701204	0.53	YES	131.634	bb	97.903	2	98	34	1.316
24	1,3C-1,2,3,7,8,9-HxCDF	39.747	2455419	4665817	7121236	0.53	YES	121.721	bb	96.835	3	97	34	1.217
25	1,3C-1,2,3,4,6,7,8-HpCDF	41.467	2251596	5038175	7289770	0.45	YES	124.602	bb	97.557	2	98	34	1.246
26	1,3C-1,2,3,4,7,8,9-HpCDF	42.757	1904449	4245859	6150307	0.45	YES	105.125	bb	99.269	1	99	34	1.051
27	1,3C-2,3,7,8-TCDD	25.701	2633824	3214417	5848828	0.82	YES	110.076	bb	96.066	4	96	33	1.101
28	1,3C-1,2,3,7,8-PeCDD	34.365	2663893	1613005	4276898	1.65	YES	80.500	bb	98.612	1	99	33	0.805
29	1,3C-1,2,3,4,7,8-HxCDD	39.097	2930624	2269557	5200181	1.29	YES	88.885	db	97.303	3	97	34	0.889
30	1,3C-1,2,3,6,7,8-HxCDD	39.200	3062477	2456028	5498505	1.26	YES	93.984	db	98.685	1	99	34	0.940
31	1,3C-1,2,3,4,6,7,8-HxCDD	42.406	2826995	2651129	5478124	1.07	YES	93.636	bb	99.180	1	99	34	0.936
32	1,3C-OCDD	45.347	4091958	4511385	8603342	0.91	YES	147.054	bb	195.784	2	98	34	0.735
33	1,3C-1,2,3,4-TCDD	25.427	2414930	2898003	5312932	0.83	YES	5850448.250	bb	118.891	19	119	0	53129.323
34	1,3C-1,2,3,7,8,9-HxCDD	39.541	3237203	2613246	5850448	1.24	YES	101.245	bb	113.854	14	114	0	58504.482
35	OC137-2,3,7,8-TCDD	25.723	2689550	2689550	5379100	1.00	YES		bb	40.932	2	102	33	2.531
36	Totals Tetra-Furans	-	0	0	0	-	-	-	-	42.442	-	-	18	-
37	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	43.793	-	-	27	-
38	Totals Penta-Furans	-	0	0	0	-	-	-	-	422.362	-	-	0	-
39	Totals Penta-Dioxins	-	0	0	0	-	-	-	-	207.997	-	-	28	-
40	Totals Hexa-Furans	-	0	0	0	-	-	-	-	824.075	-	-	0	-
41	Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	622.908	-	-	30	-
42	Totals Hepta-Furans	-	0	0	0	-	-	-	-	418.604	-	-	0	-
43	Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	208.163	-	-	31	-

6 PLS.

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAFETY\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

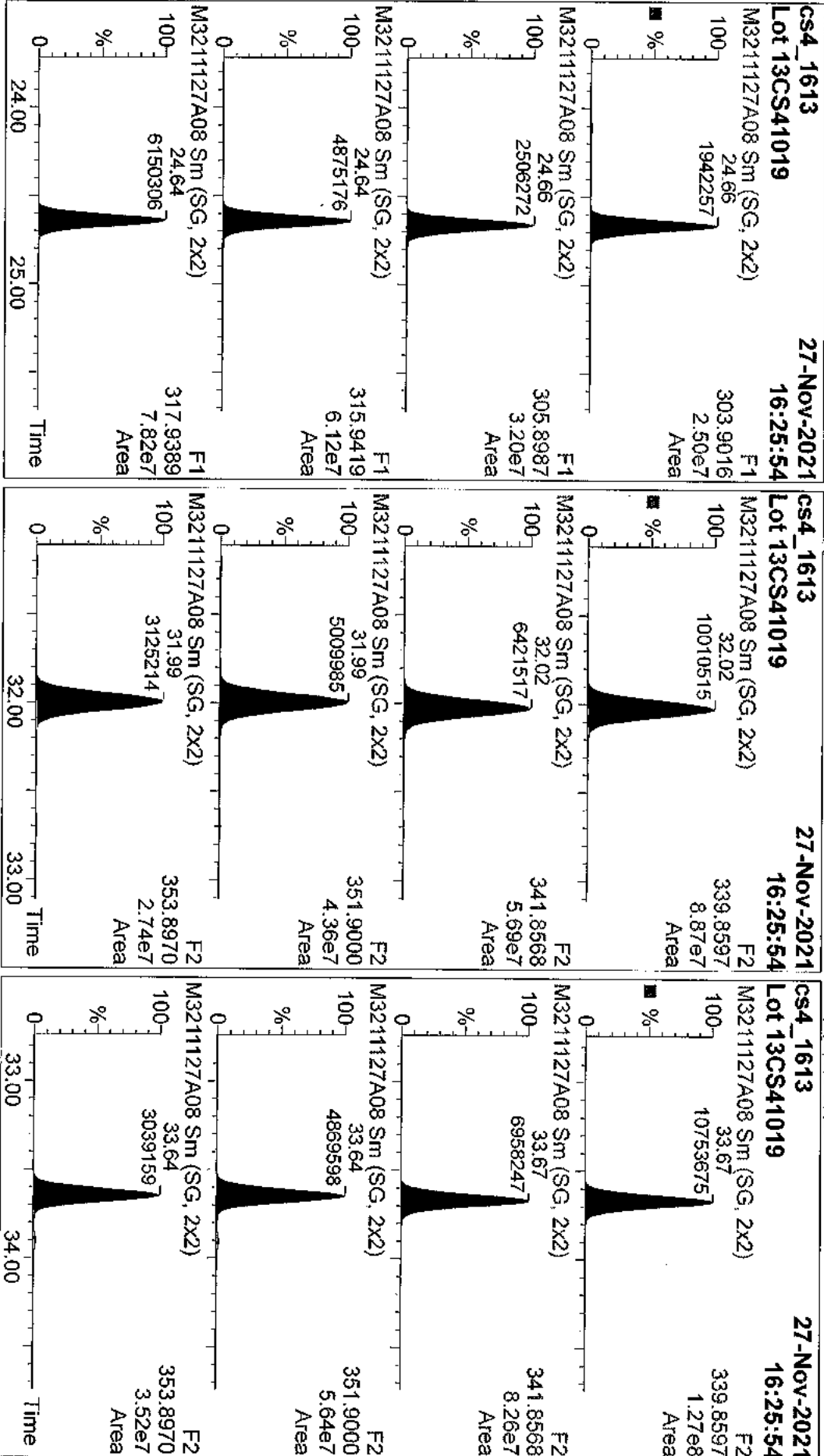
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A08
 Text: cs4_1613

1: 2,3,7,8-TCDF

2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF



Quantity Sample Report

Sample List: C:\MASSLYNK\Default-pro\SAMPLEDB\M321127A_1613_CALT
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNK\Default-pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

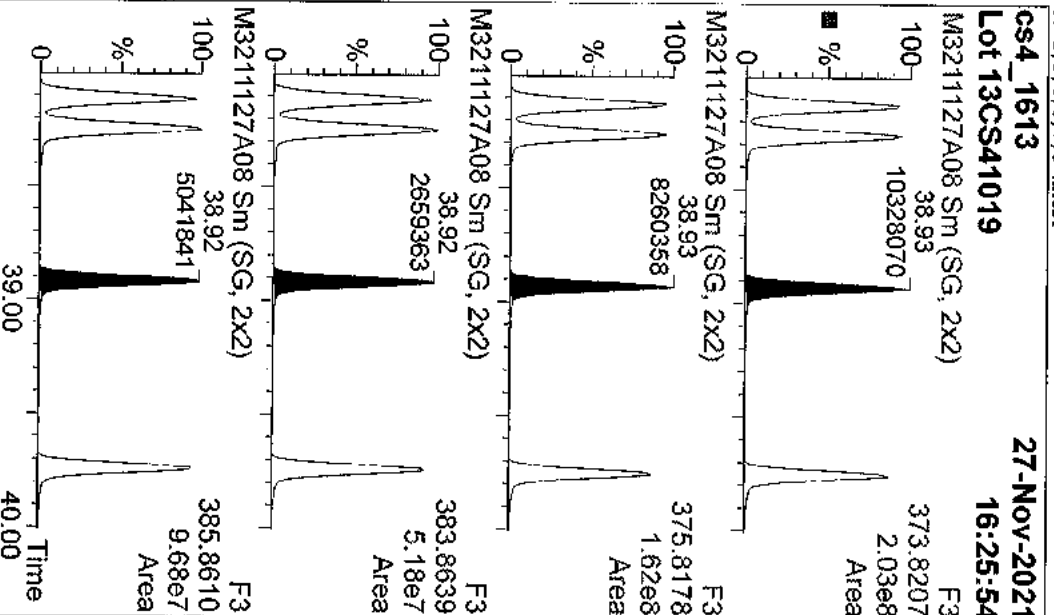
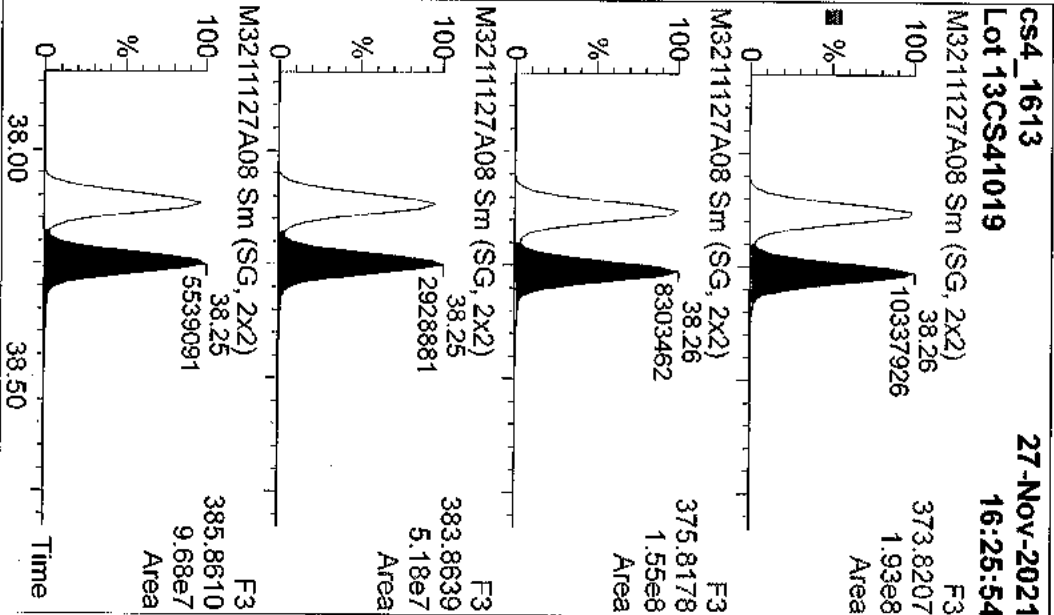
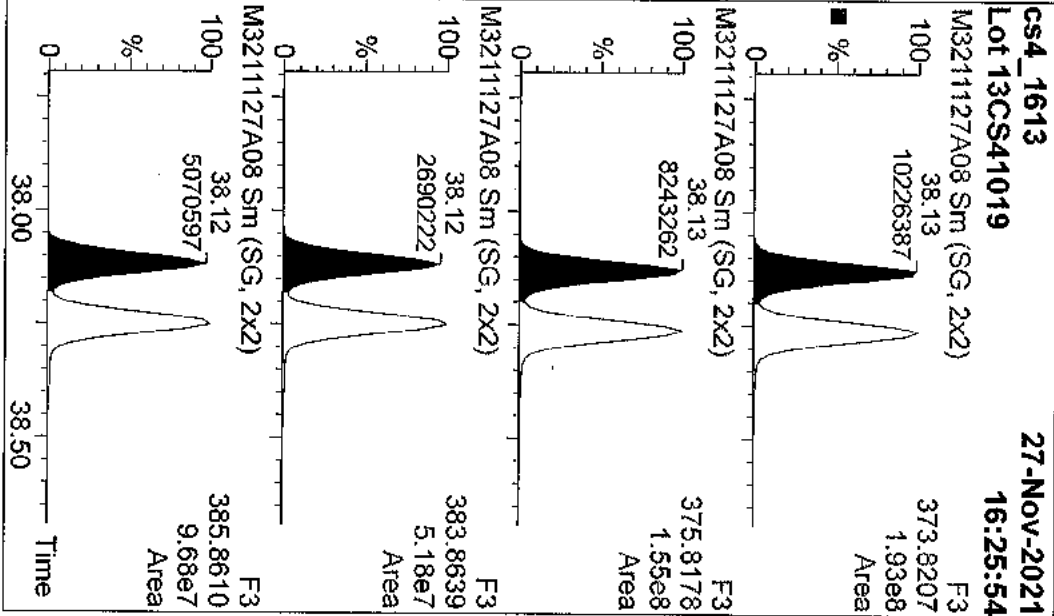
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A08
 Text: cs4_1613

4: 1,2,3,4,7,8-HxCDF

5: 1,2,3,6,7,8-HxCDF

6: 2,3,4,6,7,8-HxCDF



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

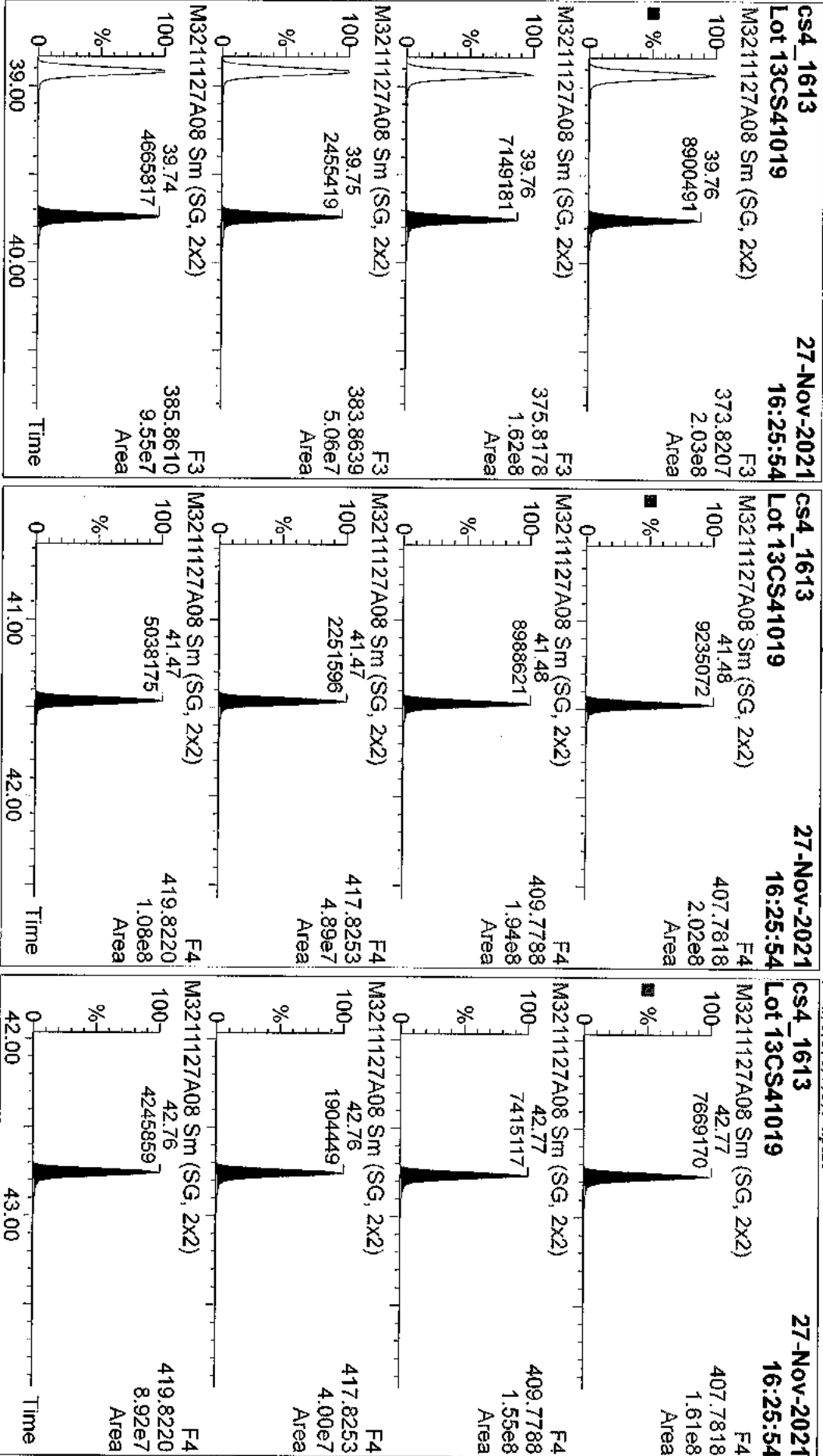
Printed: Mon Nov 29 13:06:13 2021

Name: M3211027A08
 Text: cs4_1613

7: 1,2,3,7,8,9-HrCDF

8: 3,2,3,4,6,7,8-HrCDF

9: 1,2,3,4,7,8,9-HrCDF



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMFLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

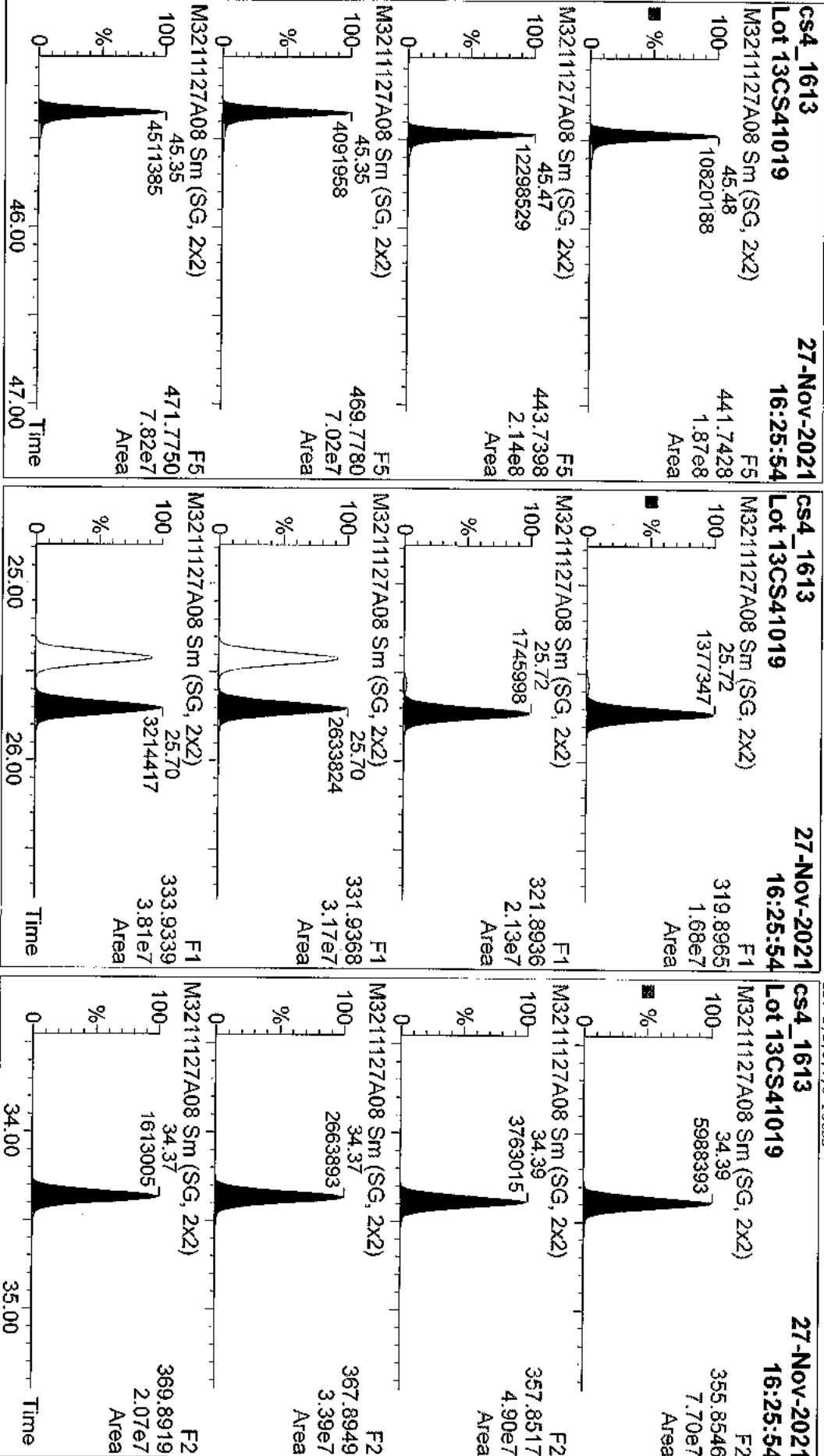
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A08
 Text: cs4_1613

10: OCDF

11: 2,3,7,8-TCDD

12: 1,2,3,7,8-PeCDD



Quantify Sample Report

Sample List: C:\MASSLINK\Default-pro\SAMPLES\M3211027A_1613_CAL1
 Last modified: Mon Nov 29 09:57:19 2021
 Method: C:\MASSLINK\Default-pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

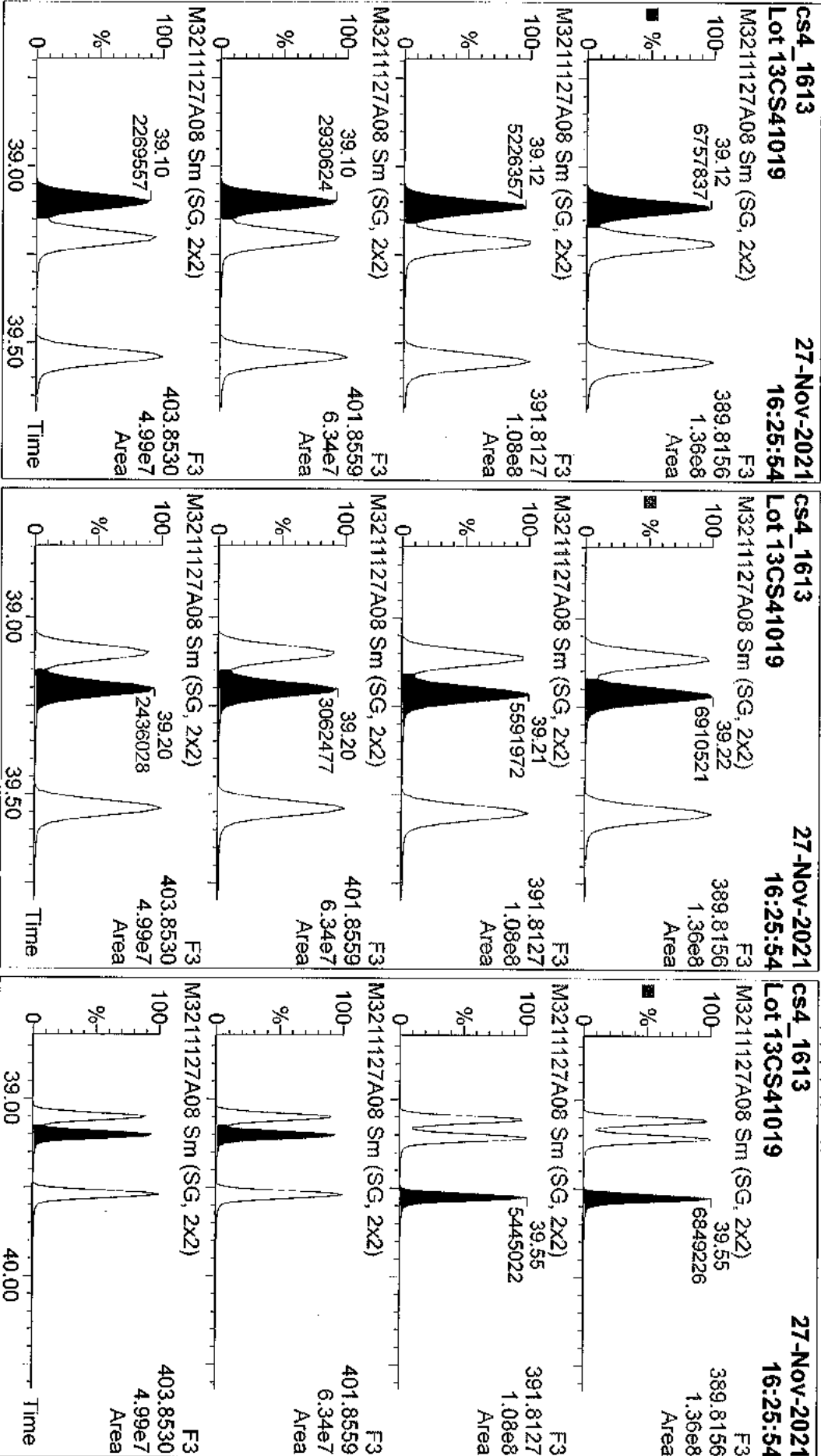
Printed: Mon Nov 29 13:06:13 2021

Name: M3211027A08
 Text: cs4_1613

13: 1,2,3,4,7,8-HxCDD

14: 1,2,3,6,7,8-HxCDD

15: 1,2,3,7,8,9-HxCDD



Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_EC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

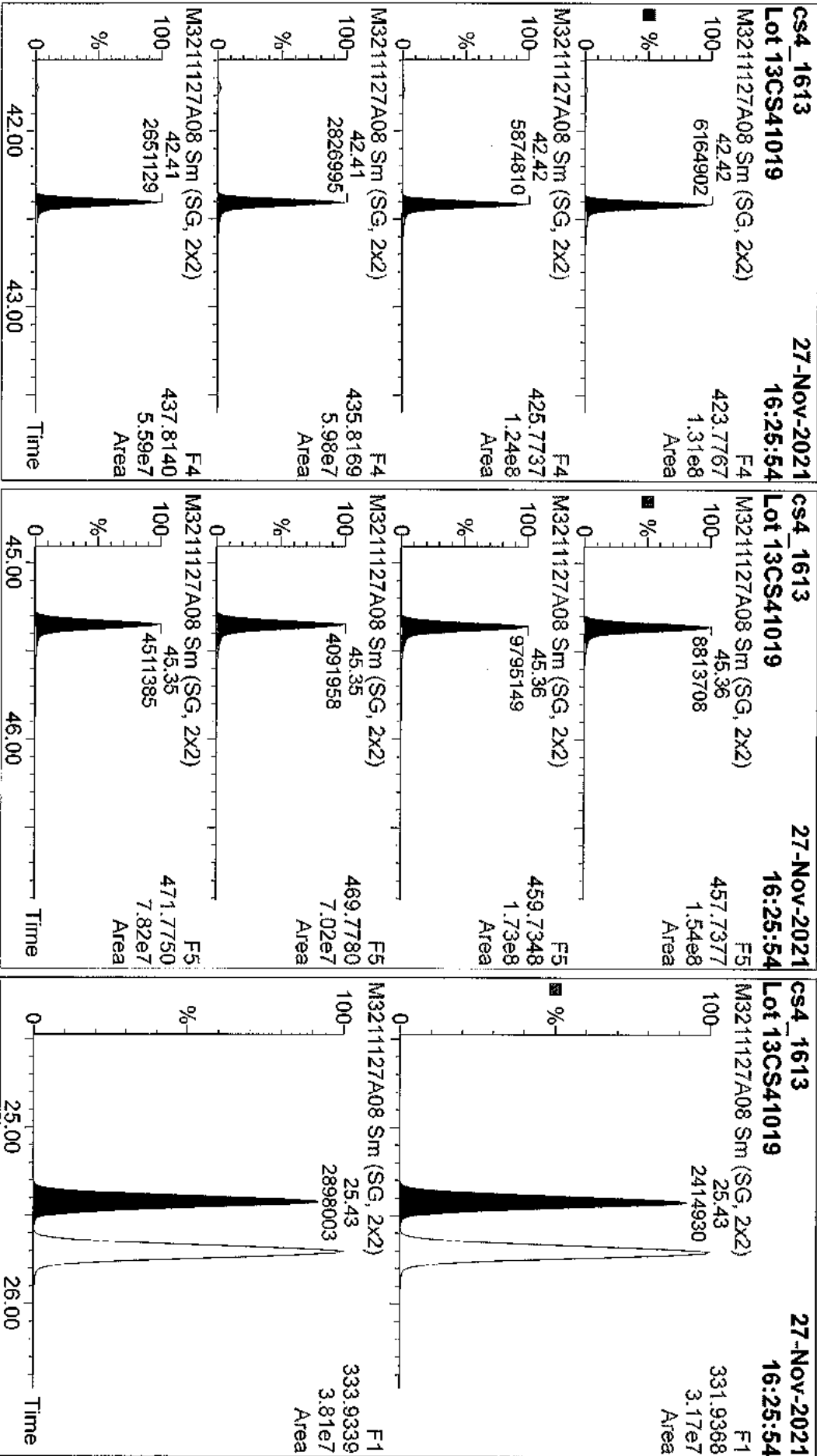
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A08
 Text: cs4_1613

16: 1,2,3,4,6,7,8-HPCDD

17: OCDD

33: 1,3C-1,2,3,4-TCDD



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-Pro\SMS\MSD\MS211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-Pro\MSD\MS211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

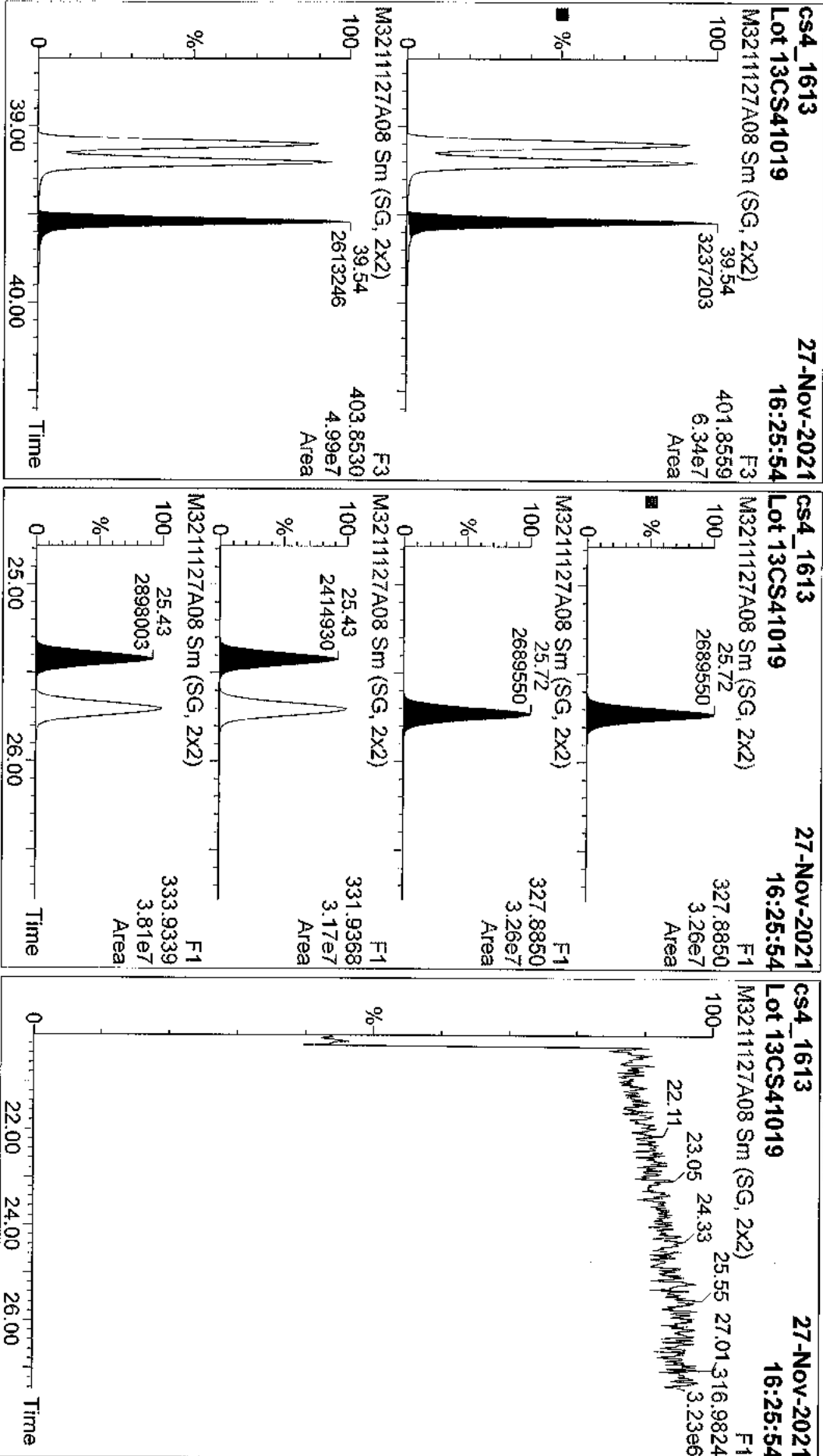
Printed: Mon Nov 29 13:06:13 2021

Name: MS211027A08
 Text: cs4_1613

34: 13C-1,2,3,7,8,9-HXCD

35: C137-2,3,7,8-TCDD

39: Function 1 Lockmass



Quantity Sample Report

Sample List: C:\MSSTYX\Default.pro\SAVEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

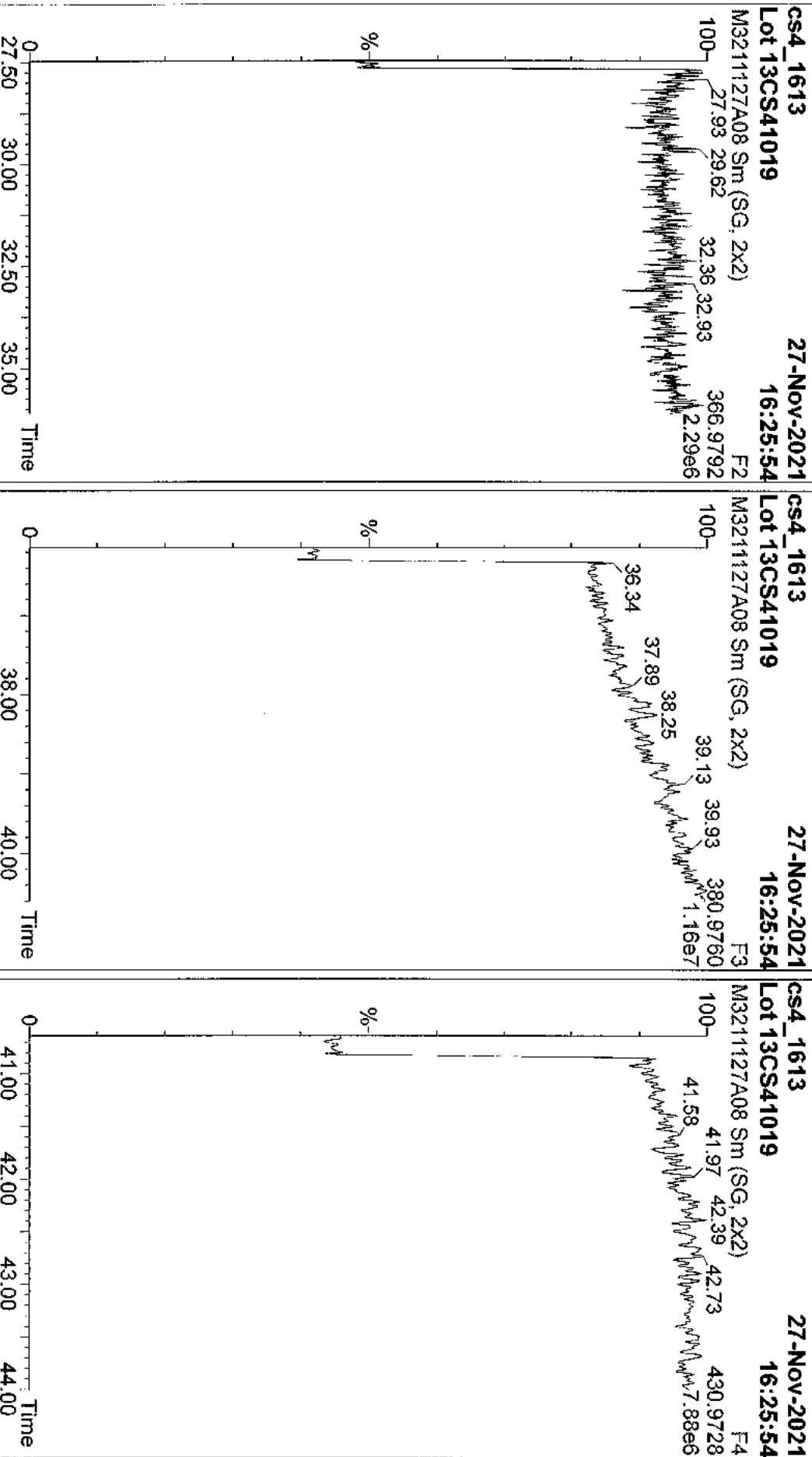
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A08
 Text: cs4_1613

43: Function 2 Lockmass

47: Function 3 Lockmass

51: Function 4 Lockmass



Quantify Sample Report

Sample List: C:\MASSVIEW\Default.pro\SAMPLEDB\M321127A_1613_CMLI
Last modified: Mon Nov 29 09:57:39 2021
Method: C:\MASSVIEW\Default.pro\METHOD\M321127A_HC_std_1613
Last modified: Mon Nov 29 13:05:57 2021
Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M321127A08
Text: cs4_1613

53: Function 5 Lockmass

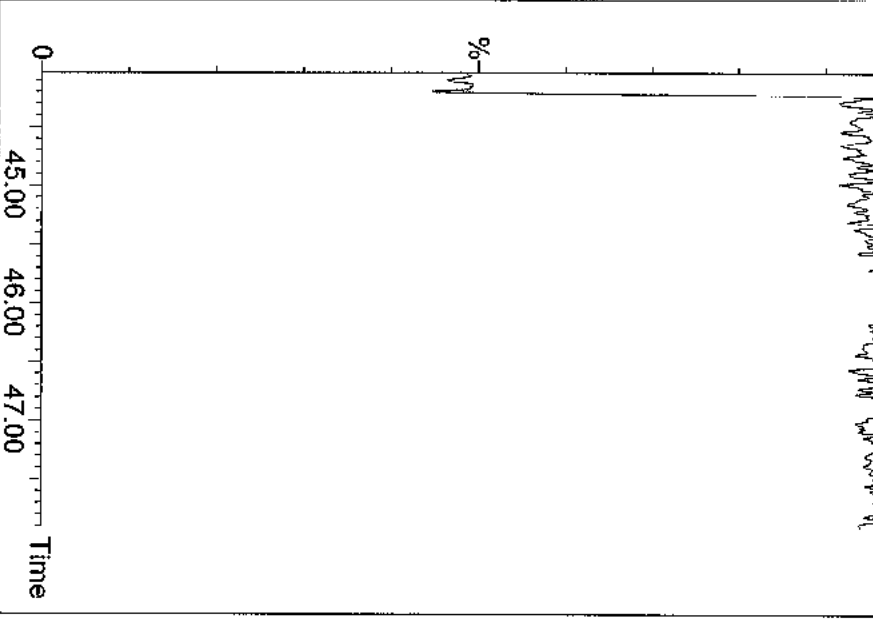
CS4_1613 27-Nov-2021

Lot 13CS41019 16:25:54

M321127A08 Sm (SG, 2x2) F5

100 44.39 45.68 45.90 46.13 47.52 454.9728

5.02e6



Quantify Sample Summary Report

Sample List: C:\MASSL\N\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\N\Default-pro\METHOD\EPA 1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 13:03:14 2021

Sample Name: M3211127A09 Sample ID: Lot 13CS51019

#	Name	RT	Area	Sec Area	Abs Resp	Ion Ratio	RFlag	Response	Flags	Pg	%Dev	%Rec	IS#	RRF
1	2,3,7,8-TCDF	24.648	11460270	14817615	26277885	0.77	YES	203.307	bb	209.712	5	105	18	1.017
2	1,2,3,7,8-PeCDF	32.023	65266932	41837848	107104780	1.56	YES	1011.023	bb	1045.920	5	105	19	1.011
3	2,3,4,7,8-PeCDF	33.664	72461864	46655356	119117220	1.55	YES	1118.306	bb	1045.434	5	105	20	1.011
4	1,2,3,4,7,8-HxCDF	38.127	63345364	53929632	117274956	1.17	YES	1135.709	bd	990.328	-1	99	21	1.136
5	1,2,3,6,7,8-HxCDF	38.262	62670440	54689252	117359622	1.15	YES	1086.123	db	1003.359	0	100	22	1.086
6	2,3,4,6,7,8-HxCDF	38.922	62054796	54021496	116076292	1.15	YES	1136.705	bb	972.434	-3	97	23	1.137
7	1,2,3,7,8,9-HxCDF	39.757	55968944	47089120	103058064	1.19	YES	1077.441	bb	981.728	-2	98	24	1.077
8	1,2,3,4,6,7,8-HpCDF	41.467	53752848	53417472	107170320	1.01	YES	1153.785	bb	958.200	-4	96	25	1.154
9	1,2,3,4,7,8,9-HpCDF	42.757	47620924	46099336	93720260	1.03	YES	1204.479	bb	1025.681	3	103	26	1.204
10	OCDF	45.476	68237320	72769704	141007024	0.94	YES	2348.812	bb	1923.031	-4	96	27	1.174
11	2,3,7,8-TCDD	25.712	8513134	10549099	19062233	0.81	YES	266.380	db	214.365	7	107	27	1.332
12	1,2,3,7,8-PeCDD	34.386	41383676	26130320	67513996	1.58	YES	1160.595	bb	1054.303	5	105	28	1.161
13	1,2,3,4,7,8-HxCDD	39.107	45894520	36374600	82269120	1.26	YES	1122.422	bd	1018.773	2	102	29	1.122
14	1,2,3,6,7,8-HxCDD	39.211	47426324	37844936	85271240	1.25	YES	1115.901	db	1004.426	0	100	30	1.116
15	1,2,3,7,8,9-HxCDD	39.551	46343764	36770376	83114140	1.26	YES	1087.672	bb	1010.575	1	101	30	1.088
16	1,2,3,4,6,7,8-HpCDD	42.406	39815588	38084640	77900228	1.04	YES	1087.307	bb	1013.871	1	101	31	1.087
17	OCDD	45.369	58501028	63707764	122208792	0.92	YES	2035.682	bb	1948.652	-3	97	32	1.018
18	13C-2,3,7,8-TCDF	24.626	5725427	7199789	1295216	0.80	YES	224.365	bb	105.075	5	105	33	2.244
19	13C-1,2,3,7,8-PeCDF	31.992	6518020	4075682	10593702	1.60	YES	183.893	db	116.333	16	116	33	1.839
20	13C-2,3,4,7,8-PeCDF	33.643	6527810	4123772	10651581	1.58	YES	184.898	bb	119.490	19	119	33	1.849
21	13C-1,2,3,4,7,8-HxCDF	38.117	3552271	6773876	10365147	0.52	YES	130.288	bd	96.998	-3	97	34	1.303
22	13C-2,3,4,6,7,8-HxCDF	38.241	3726783	7078594	10805376	0.53	YES	136.335	db	94.100	-6	94	34	1.363
23	13C-1,2,3,7,8,9-HxCDF	39.911	3547673	6663970	10211643	0.53	YES	128.844	bb	95.827	-4	96	34	1.288
24	13C-1,2,3,7,8,9-HpCDF	41.457	2902060	6283798	9565074	0.52	YES	120.686	bb	96.011	-4	96	34	1.207
25	13C-1,2,3,4,6,7,8-HpCDF	41.457	2902060	6283798	9565074	0.52	YES	120.686	bb	96.011	-4	96	34	1.207
26	13C-1,2,3,4,7,8-HpCDF	42.746	2460164	5374817	9288589	0.45	YES	117.197	bb	91.759	-8	92	34	1.172
27	13C-2,3,7,8-TCDD	25.691	3158082	3997951	7780981	0.45	YES	98.175	bb	92.706	-7	93	34	0.982
28	13C-1,2,3,7,8-PeCDD	34.365	3607768	2209422	5817719	0.79	YES	124.220	bb	108.410	8	108	33	1.242
29	13C-1,2,3,4,7,8-HxCDD	39.097	4137605	3192003	7329608	1.63	YES	100.979	bb	123.699	24	124	33	1.010
30	13C-1,2,3,6,7,8-HxCDD	39.200	4274217	3367252	7641469	1.30	YES	92.480	bd	101.238	1	101	34	0.925
31	13C-1,2,3,4,6,7,8-HpCDD	42.396	3703545	3460965	7164509	1.27	YES	96.415	db	95.749	1	101	34	0.964
32	13C-OCDD	45.358	5567022	6439645	1200667	0.86	YES	151.492	bb	201.692	-4	96	34	0.904
33	13C-1,2,3,4-TCDD	25.405	2596178	3164610	5760788	0.82	YES	5760787.750	bb	128.913	0	57607	34	0.878
34	13C-1,2,3,7,8,9-HxCDD	39.541	4458498	3464715	7925612	1.29	YES	7925612.250	bb	154.238	54	154	34	0.79256
35	13C-1,2,3,7,8-TCDD	25.712	16539993	16539993	33079986	1.00	YES	574.227	bb	222.152	16	116	33	2.871
36	Totals Tetra-Furans	-	0	0	0	-	-	-	-	213.523	-	-	18	-
37	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	218.180	-	-	27	-
38	Totals Penta-Furans	-	0	0	0	-	-	-	-	2108.834	-	-	0	-
39	Totals Penta-Dioxins	-	0	0	0	-	-	-	-	1057.305	-	-	28	-
40	Totals Hexa-Furans	-	0	0	0	-	-	-	-	3954.266	-	-	0	-
41	Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	3038.440	-	-	30	-
42	Totals Hepta-Furans	-	0	0	0	-	-	-	-	1992.571	-	-	0	-
43	Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	1025.981	-	-	31	-

6 PLS.

Quantity Sample Report

Sample List: C:\MASSDATA\Default-pro\SAMPLES\M3211027A_1613_CALL
 Last Modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSDATA\Default-pro\METHOD\M3211127A_HC_std_1613
 Last Modified: Mon Nov 29 13:05:57 2021
 Job Code:

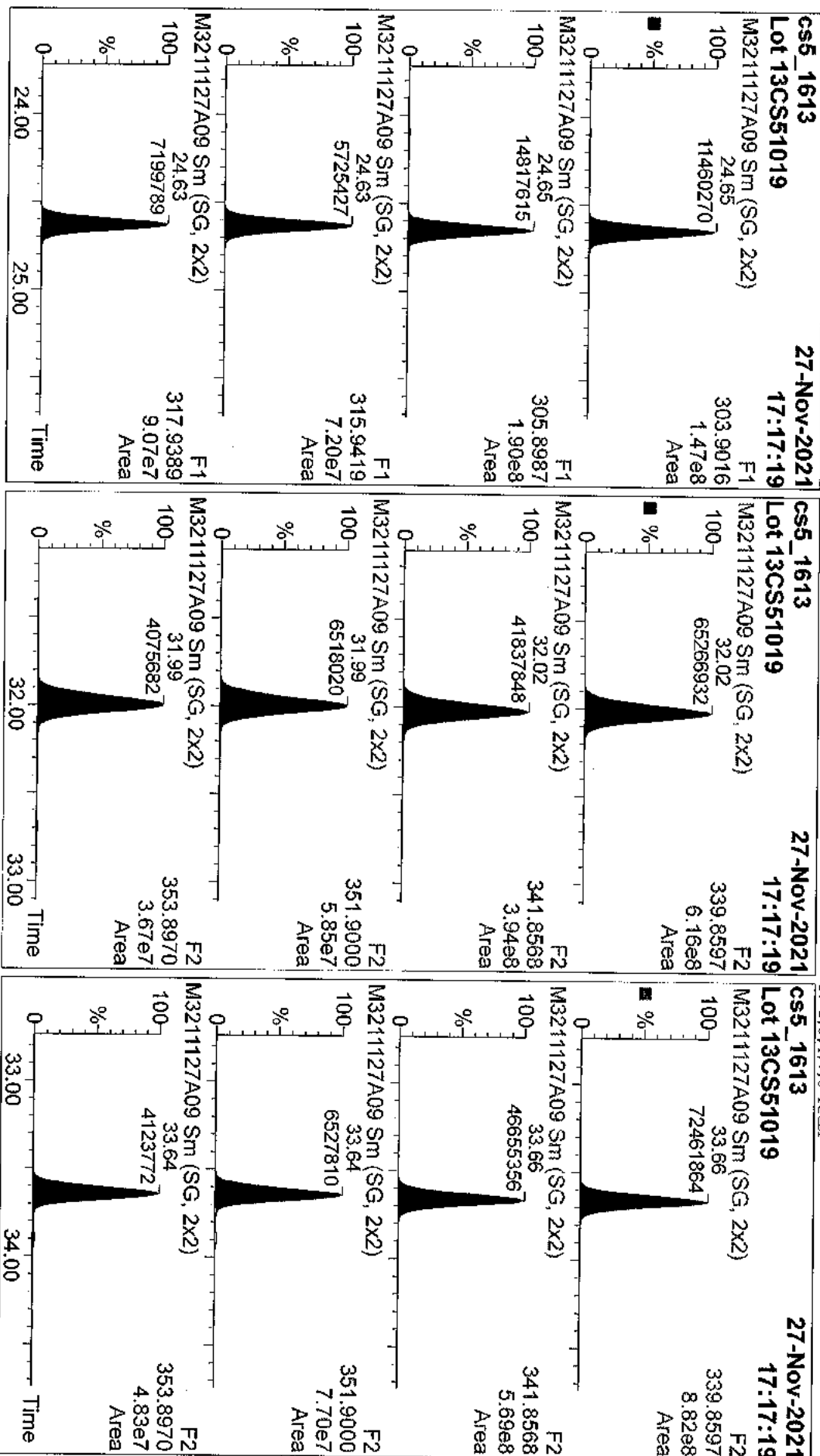
Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A09
 Text: cs5_1613

1: 2,3,7,8-TCDF

2: 1,2,3,7,8-PeCDF

3: 2,3,4,7,8-PeCDF



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMPLDDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:17 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M321127A09
 Text: cs5_1613

4: 1,2,3,4,7,8-HxCDF

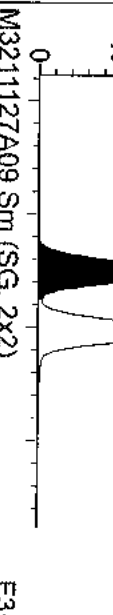
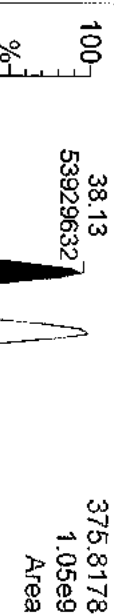
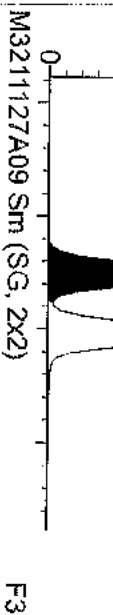
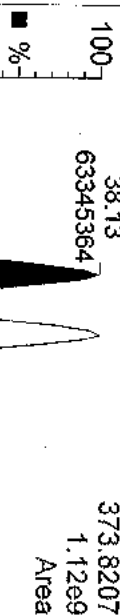
5: 1,2,3,6,7,8-HxCDF

6: 2,3,4,6,7,8-HxCDF

cs5_1613 27-Nov-2021 17:17:19

Lot 13CS51019

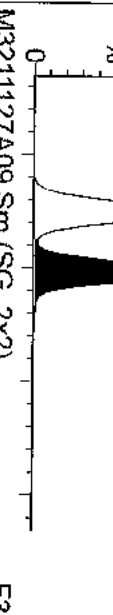
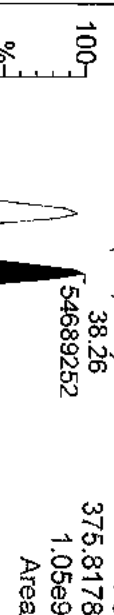
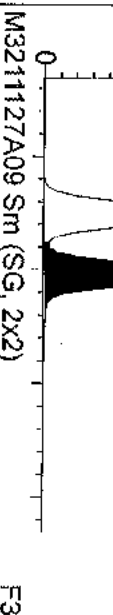
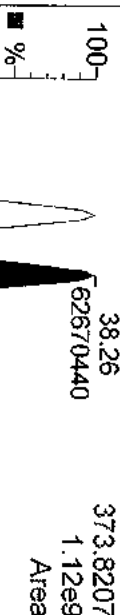
M321127A09 Sm (SG, 2x2)



cs5_1613 27-Nov-2021 17:17:19

Lot 13CS51019

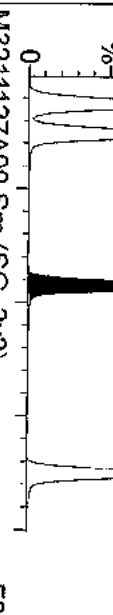
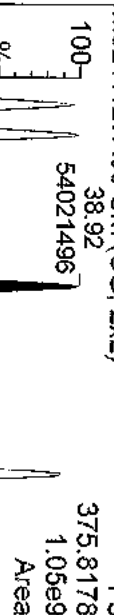
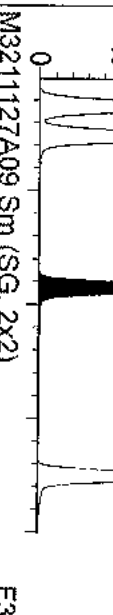
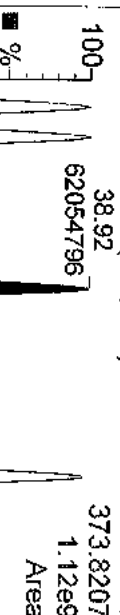
M321127A09 Sm (SG, 2x2)



cs5_1613 27-Nov-2021 17:17:19

Lot 13CS51019

M321127A09 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLES\M3211027A_1613_CALL
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211127A_HC_stdcs_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A09
 Text: cs5_1613

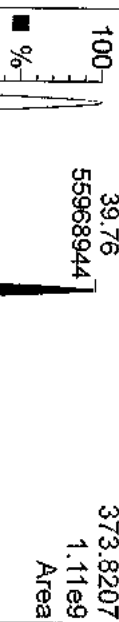
7: 1,2,3,7,8,9-HxCDF

8: 1,2,3,4,6,7,8-HxCDF

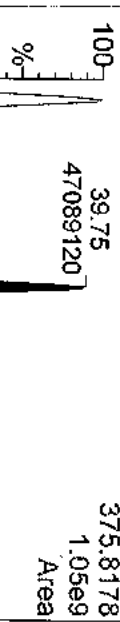
9: 1,2,3,4,7,8,9-HxCDF

cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

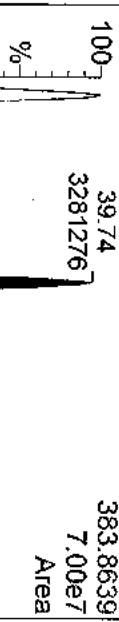
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)

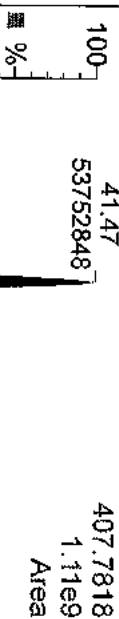


M3211127A09 Sm (SG, 2x2)

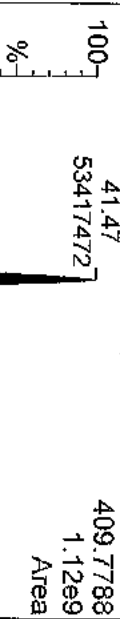


cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

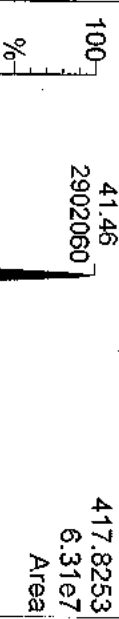
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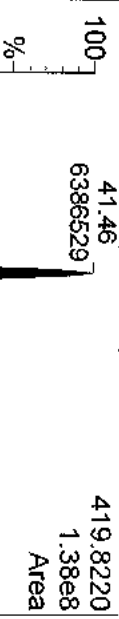
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)

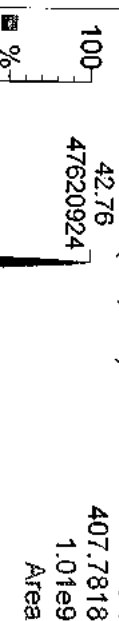


M3211127A09 Sm (SG, 2x2)

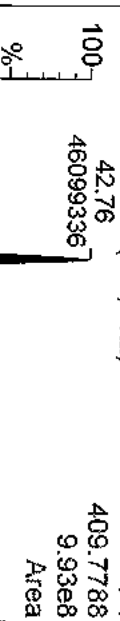


cs5_1613 27-Nov-2021
 Lot 13CS51019 17:17:19

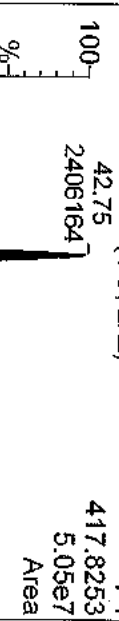
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAFLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

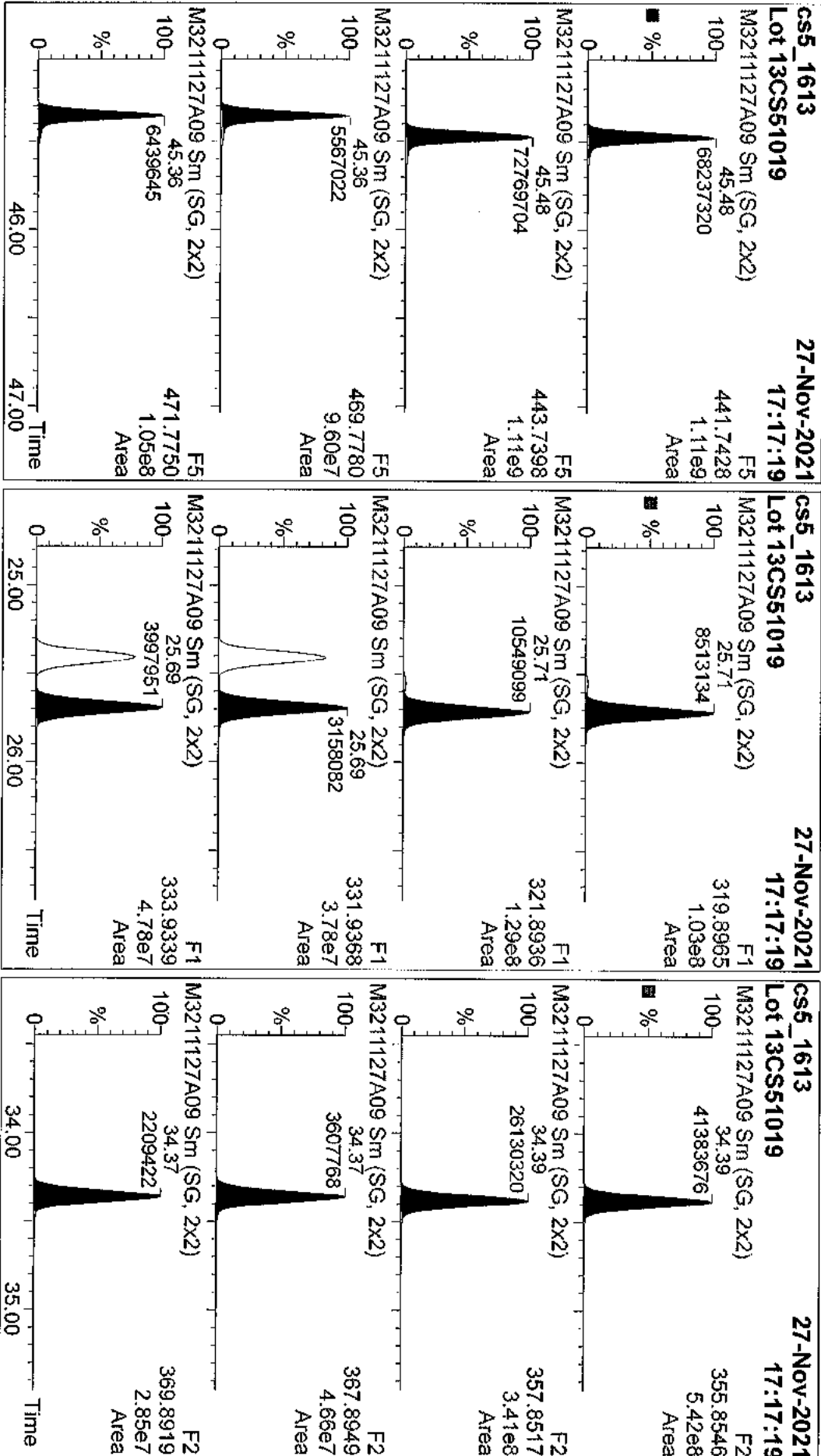
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A09
 Text: cs5_1613

10: OCDF

11: 2,3,7,8-PCDD

12: 1,2,3,7,8-PeCDD



Quantity Sample Report

Sample List: C:\MASSLINK\Default-pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLINK\Default-pro\METHODS\M3211027A_HC_std_1613
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 Job Code:

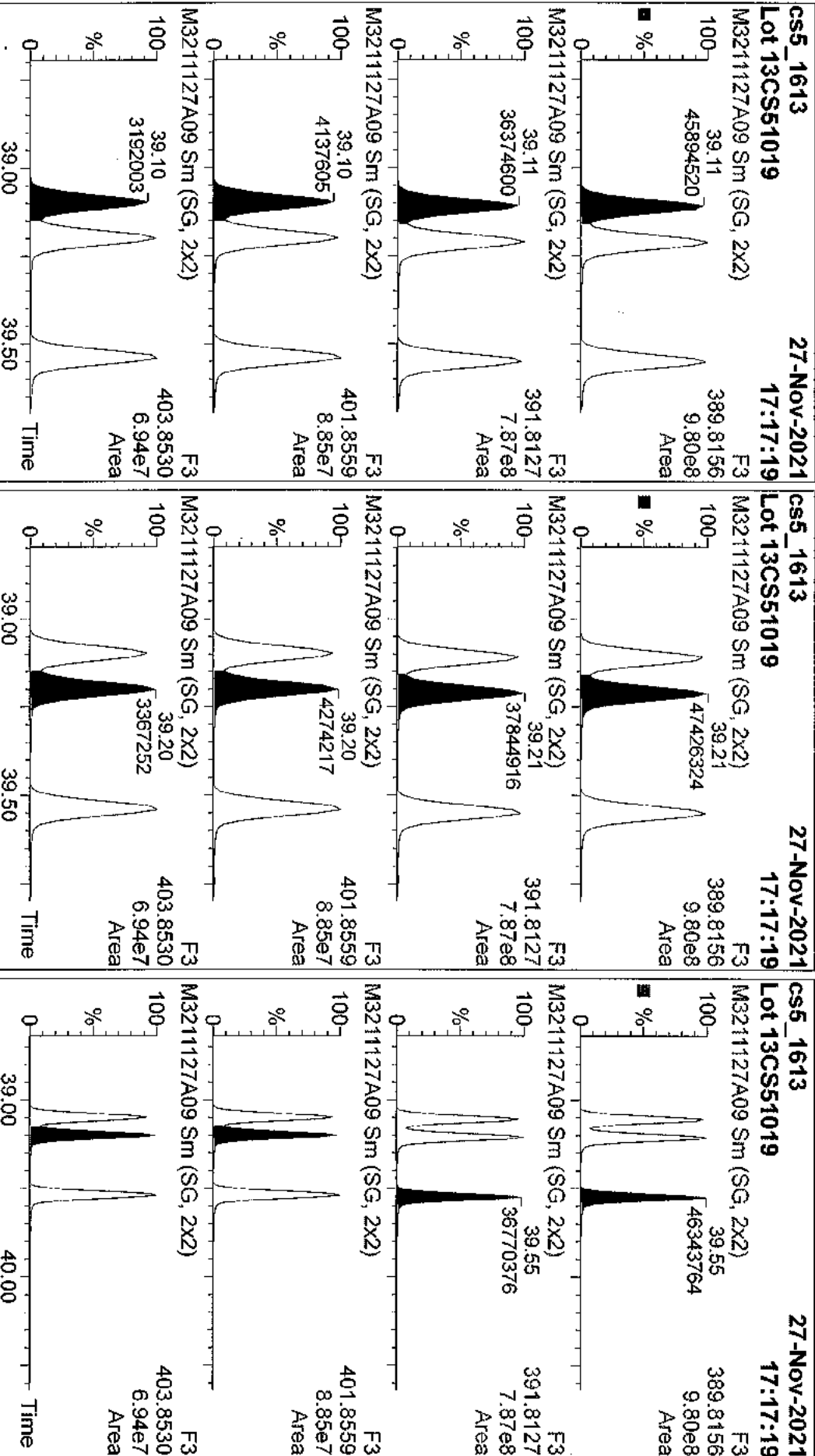
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A09
 Text: cs5_1613

13: 1,2,3,4,7,8-HxCDD

14: 1,2,3,6,7,8-HxCDD

15: 1,2,3,7,8,9-HxCDD



Quantity Sample Report

Sample List: C:\MASSL\XK\Default-pro\8&MPL\ED8\M3211027A_1613_CALL
 Last Modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\XK\Default-pro\METHODS\M3211127A_HC_stda_1613
 Last Modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

Name: M3211127A09
 Text: cs5_1613

16: 1,2,3,4,6,7,8-HpCDD

17: OCDD

33: 13C-1,2,3,4-TCDD

cs5_1613 27-Nov-2021 17:17:19

Lot 13CS51019

M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



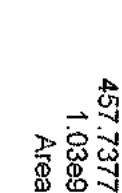
M3211127A09 Sm (SG, 2x2)



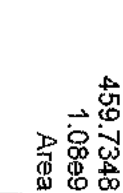
cs5_1613 27-Nov-2021 17:17:19

Lot 13CS51019

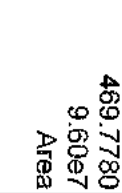
M3211127A09 Sm (SG, 2x2)



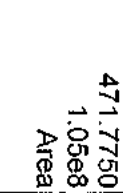
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



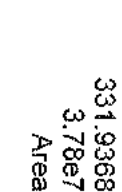
M3211127A09 Sm (SG, 2x2)



cs5_1613 27-Nov-2021 17:17:19

Lot 13CS51019

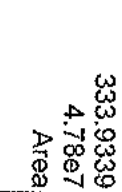
M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



M3211127A09 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

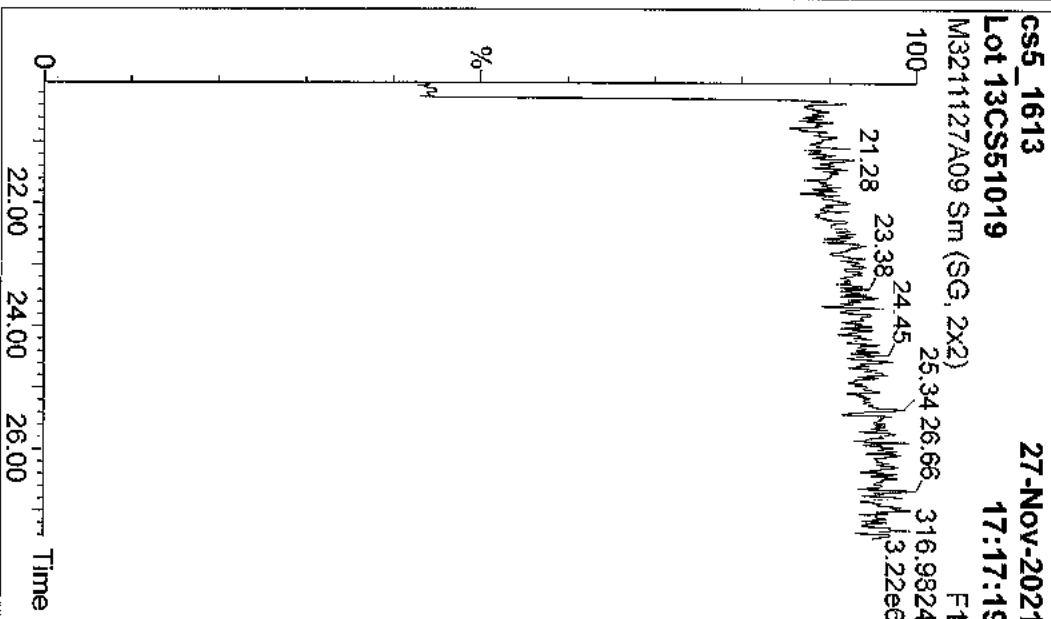
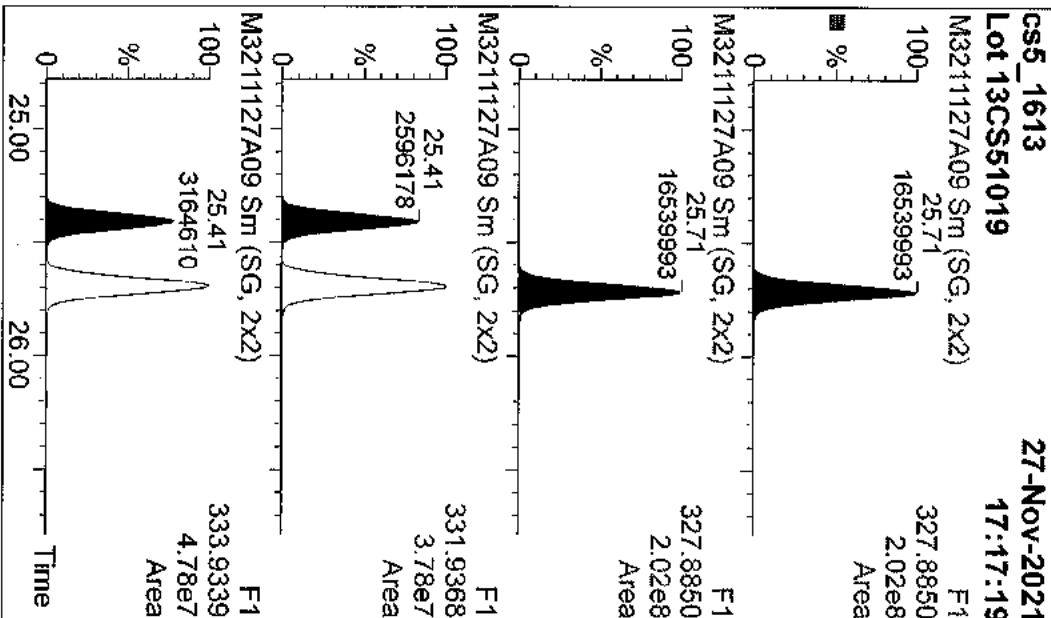
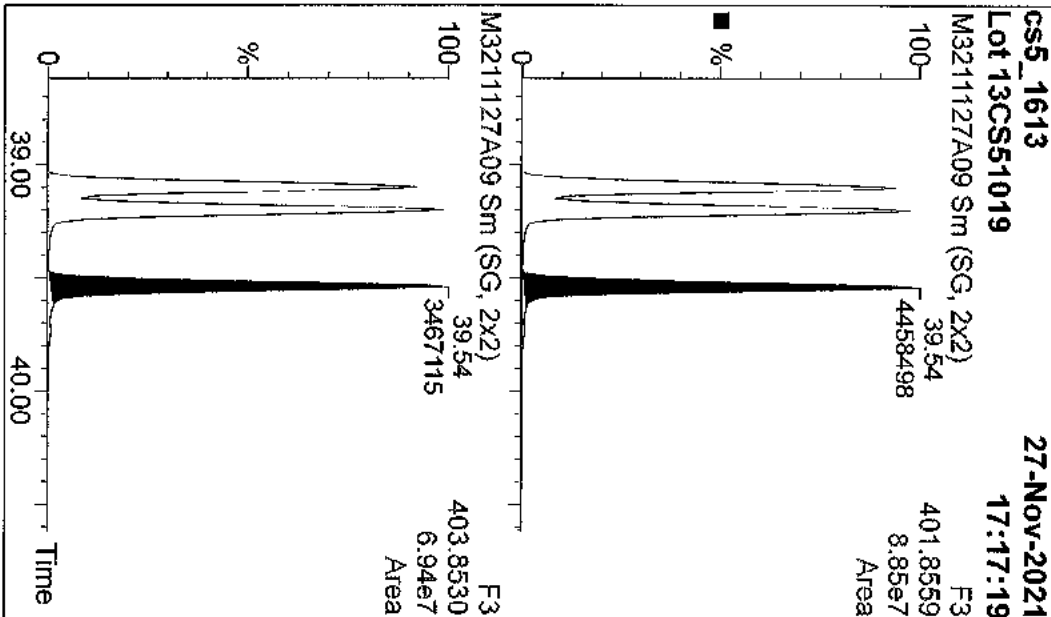
Printed: Mon Nov 29 13:06:13 2021

Name: M321127A09
 Text: cs5_1613

34: 13C-1,2,3,7,8,9-HXCD

35: C137-2,3,7,8-TCDD

39: Function 1 Lockmass



Quantity Sample Report

Sample list: C:\MSI\XK\Default.pro\SAFILEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSI\XK\Default.pro\METHOD\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:13 2021

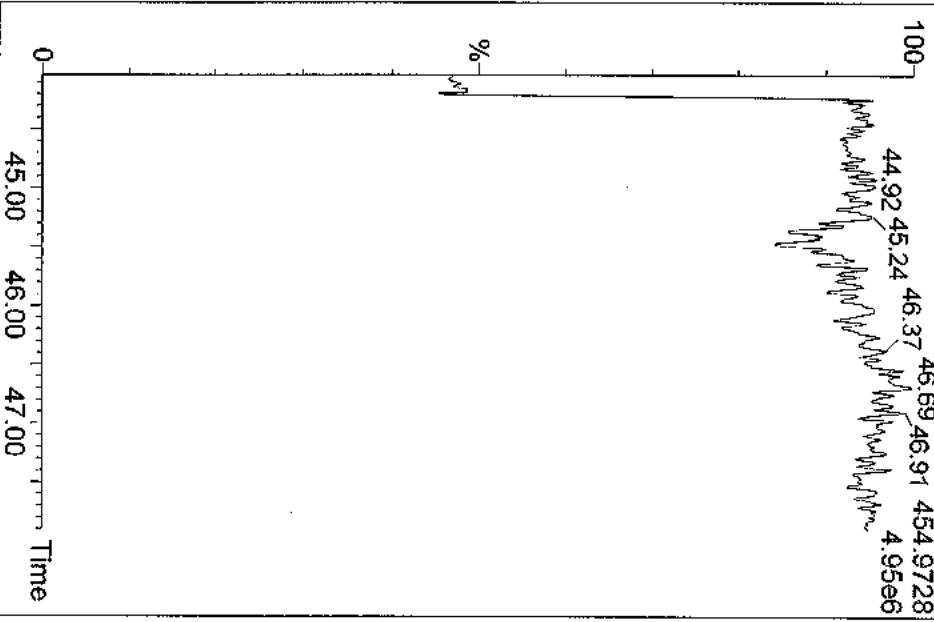
Name: M321127A09
 Text: cs5_1613

S3: Function 5 Lockmass

cs5_1613 27-Nov-2021

Lot 13CS61019 17:17:19

M321127A09 Sm (SG, 2x2) F5



Quantify Sample Summary Report

Sample List: C:\MASSTXN\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSTXN\Default-pro\METHOD\1613B_M3211127A
 Last modified: Sat Nov 27 20:28:16 2021
 Job Code:

Printed: Mon Nov 29 13:03:22 2021

Sample Name: M3211127A11 Sample ID: Lot CS3WT1020

# Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RIflag	Response	Flags	Pg	\$Dev	%Rec	TS#	RNF
1 2,3,7,8-TCDF	24.659	254301	336266	590567	0.76	YES	9.924	db	10.236	2	102	18	0.992
2 1,2,3,7,8-PeCDF	32.023	1293126	833096	2126221	1.55	YES	50.292	db	52.028	4	104	19	1.006
3 2,3,4,7,8-PeCDF	33.674	1380122	887017	2267139	1.56	YES	55.462	db	51.848	4	104	20	1.109
4 1,2,3,4,7,8-HxCDF	38.127	1343124	1081184	2424307	1.24	YES	59.866	db	52.202	4	104	21	1.197
5 1,2,3,6,7,8-HxCDF	38.262	1417667	1089254	2506921	1.30	YES	59.140	dd	54.634	9	109	22	1.183
6 2,3,4,6,7,8-HxCDF	38.932	1370293	1090731	2461024	1.26	YES	60.859	db	52.064	4	104	23	1.217
7 1,2,3,7,8,9-HxCDF	39.757	1201695	965317	2167012	1.25	YES	56.179	db	51.188	2	102	24	1.124
8 1,2,3,4,6,7,8-HpCDF	41.478	1228280	1196204	2424484	1.03	YES	62.291	db	51.731	3	103	25	1.246
9 1,2,3,4,7,8,9-HpCDF	42.767	973059	935821	1908880	1.04	YES	60.085	db	51.165	2	102	26	1.202
10 OCDF	45.465	1301490	1462736	2764226	0.89	YES	124.411	db	101.859	2	102	32	1.244
11 2,3,7,8-TCDD	25.723	179039	224332	403371	0.80	YES	12.043	dd	9.692	-3	97	27	1.204
12 1,2,3,7,8-PeCDD	34.386	755495	689823	1225318	1.61	YES	56.581	db	51.399	3	103	28	1.132
13 1,2,3,4,7,8-HxCDD	39.118	878121	684148	1562269	1.28	YES	57.419	db	52.116	4	104	29	1.148
14 1,2,3,6,7,8-HxCDD	39.221	913368	726831	1640199	1.26	YES	56.668	db	51.007	2	102	30	1.133
15 1,2,3,7,8,9-HxCDD	39.551	895627	716373	1612001	1.25	YES	55.693	db	51.746	3	103	30	1.114
16 1,2,3,4,6,7,8-HpCDD	42.416	797537	758203	1555740	1.05	YES	54.844	db	51.140	2	102	31	1.097
17 OCDD	45.358	1070360	1207067	2277427	0.89	YES	102.502	db	98.119	-2	98	32	1.025
18 13C-2,3,7,8-TCDF	24.637	2614938	3336153	5951091	0.78	YES	209.161	db	97.955	-2	98	33	2.092
19 13C-1,2,3,7,8-PeCDF	31.992	2591537	1636215	4227752	1.58	YES	148.591	db	94.001	-6	94	34	1.486
20 13C-2,3,4,7,8-PeCDF	33.643	2524819	1562824	4087743	1.62	YES	143.670	db	92.847	-7	93	33	1.437
21 13C-1,2,3,4,7,8-HxCDF	38.117	1403530	2646038	4049568	0.53	YES	134.064	db	99.810	-0	100	34	1.341
22 13C-1,2,3,6,7,8-HxCDF	38.251	1463665	2775273	4238938	0.53	YES	140.334	db	96.860	-3	97	34	1.403
23 13C-2,3,4,6,7,8-HxCDF	38.911	1400804	2642987	4043791	0.53	YES	133.873	db	99.568	-0	100	34	1.339
24 13C-1,2,3,7,8,9-HxCDF	39.737	1226923	2530439	3857362	0.52	YES	127.701	db	101.592	2	102	34	1.277
25 13C-1,2,3,4,6,7,8-HpCDF	41.467	1212703	2679500	3892203	0.45	YES	128.855	db	100.887	1	101	34	1.289
26 13C-1,2,3,4,7,8,9-HpCDF	42.757	989330	2187659	3176589	0.45	YES	105.177	db	99.317	-1	99	34	1.052
27 13C-2,3,7,8-TCDD	25.701	1503373	1845954	3349328	0.81	YES	117.718	db	102.735	3	103	33	1.177
28 13C-1,2,3,7,8-PeCDD	34.365	1342768	822817	216585	1.63	YES	76.113	db	93.238	-7	93	33	0.761
29 13C-1,2,3,4,7,8-HxCDD	39.097	1525996	1194845	2720841	1.28	YES	90.076	db	98.607	-1	99	34	0.901
30 13C-1,2,3,6,7,8-HxCDD	39.200	1627524	1266897	2894421	1.28	YES	95.822	db	100.615	1	101	34	0.958
31 13C-1,2,3,4,6,7,8-HpCDD	42.406	1452097	1384575	2836672	1.05	YES	93.910	db	99.471	-1	99	34	0.939
32 13C-OCDD	45.347	2114309	2329378	4443687	0.91	YES	147.112	db	195.861	-2	98	34	0.736
33 13C-1,2,3,4-TCDD	25.416	1253931	1591291	2845222	0.79	YES	2845221.875	db	63.669	-36	64	0	28452.219
34 13C-1,2,3,7,8,9-HxCDD	39.541	1688642	1331970	3020612	1.27	YES	3020612.250	db	58.783	-41	59	0	30206.123
35 Cl37-2,3,7,8-TCDD	25.723	349133	349133	698267	1.00	YES	24.542	db	9.922	-1	99	33	2.454
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	32.394	-	-	18	-
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	44.811	-	-	27	-
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	230.508	-	-	0	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	204.743	-	-	28	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	259.861	-	-	0	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	204.531	-	-	30	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	103.494	-	-	0	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	110.035	-	-	31	-

6 DLS.

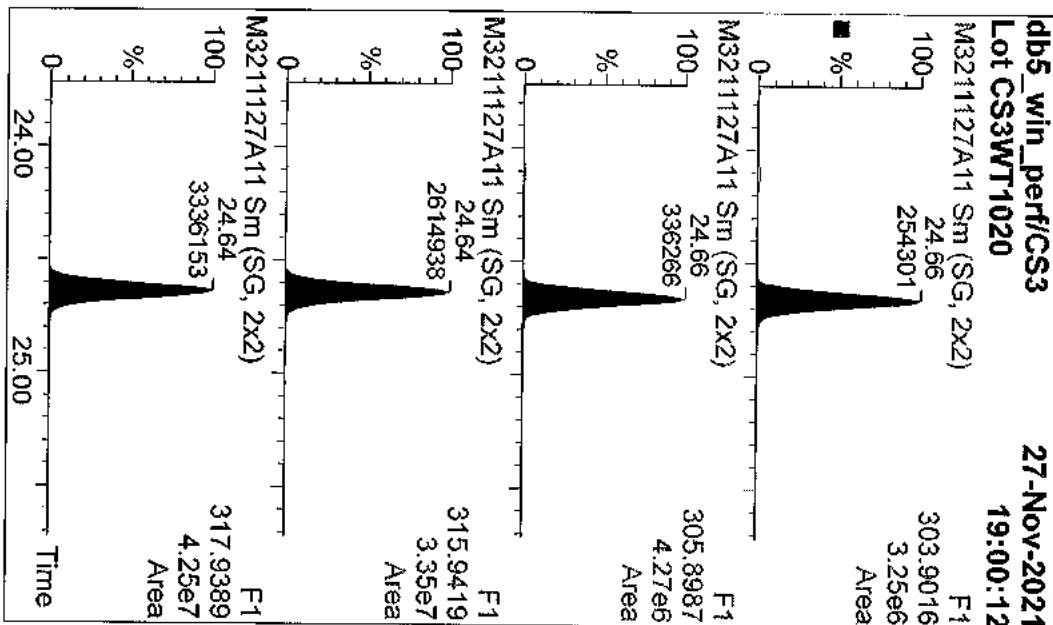
Quantify Sample Report

Sample List: C:\MASSLINK\Default-pro\SAMPLES\M3211027A_1613_CALL
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 Job Code:

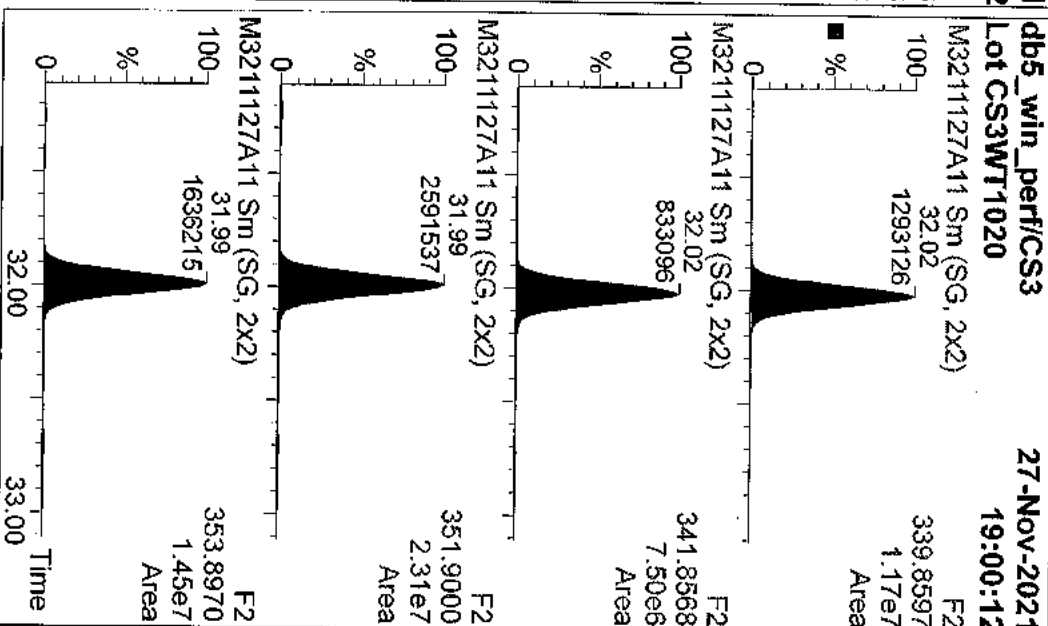
Printed: Mon Nov 29 13:08:10 2021

Name: M3211027A11
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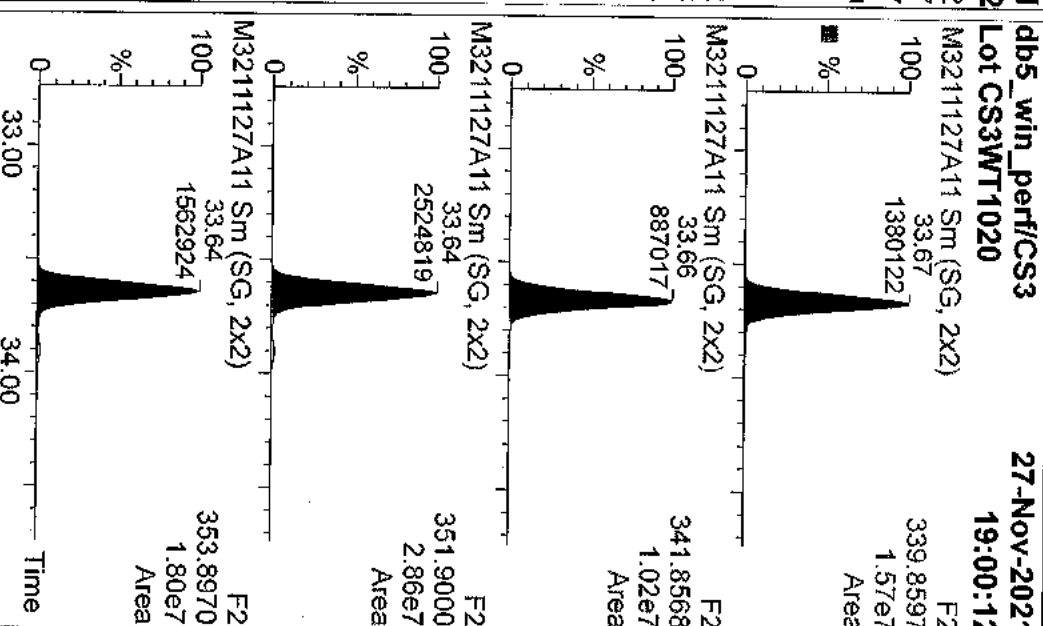
1: 2,3,7,8-TCDF



2: 1,2,3,7,8-PeCDF



3: 2,3,4,7,8-PeCDF



Quantity Sample Report

Sample List: C:\MASSLYNX\Default-Pro\SAFELIB\M3211027A_1613_CALI
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 Method: C:\MASSLYNX\Default-Pro\METHODS\M3211127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:06:10 2021

Name: M3211127A11
 Text: db5_win_perf/CS3

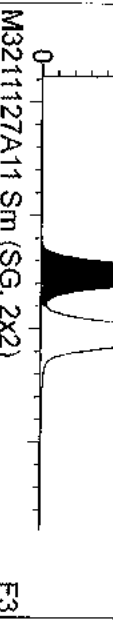
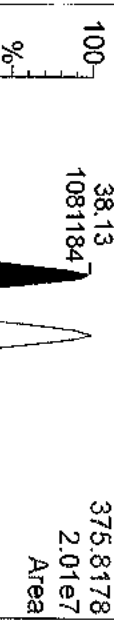
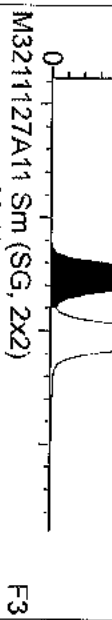
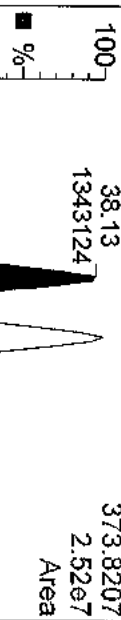
4: 1,2,3,4,7,8-HxCDF

5: 1,2,3,5,7,8-HxCDF

6: 2,3,4,6,7,8-HxCDF

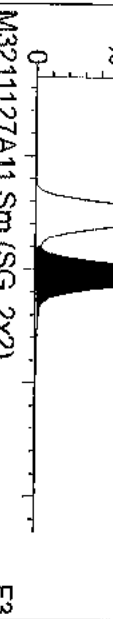
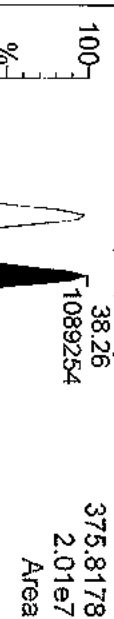
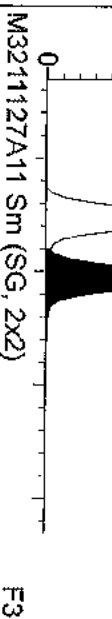
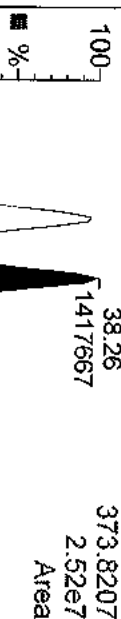
db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211127A11 Sm (SG, 2x2)



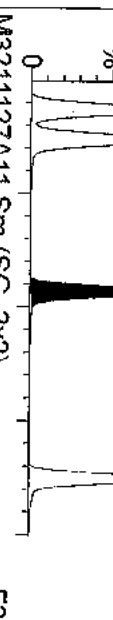
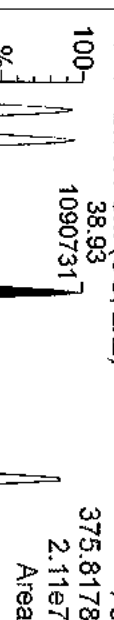
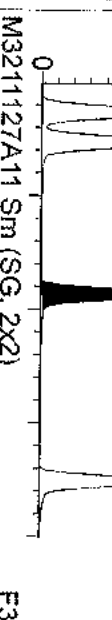
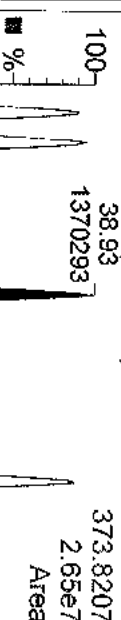
db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211127A11 Sm (SG, 2x2)



db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211127A11 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMELEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_HC_std6_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:08:10 2021

Name: M3211027A11
 Text: db5_win_perf/CS3

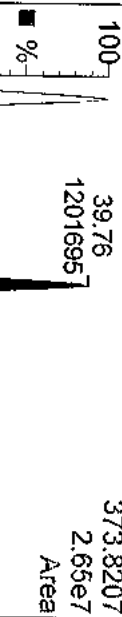
7: 1,2,3,7,8,9-HxCDF

8: 1,2,3,4,6,7,8-HxCDF

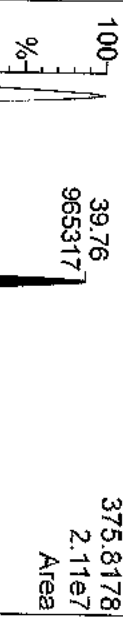
9: 1,2,3,4,7,8,9-HxCDF

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

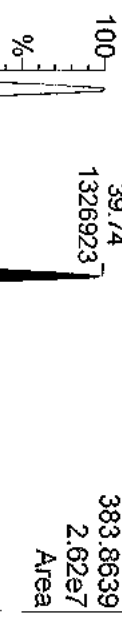
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

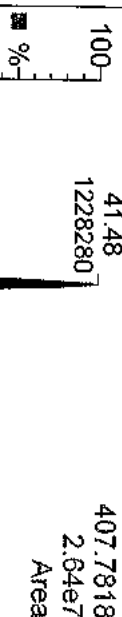


M3211027A11 Sm (SG, 2x2)

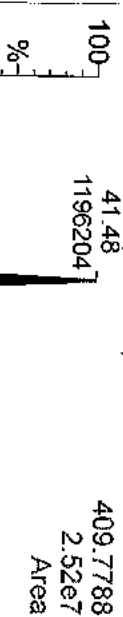


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

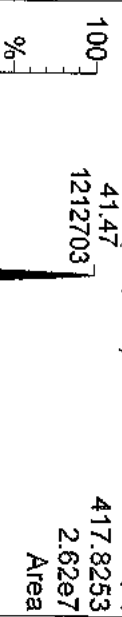
M3211027A11 Sm (SG, 2x2)



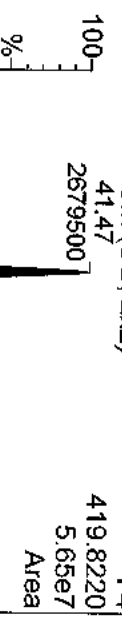
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

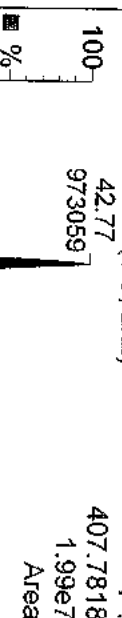


M3211027A11 Sm (SG, 2x2)

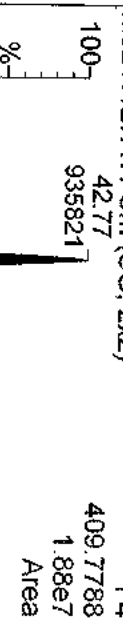


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

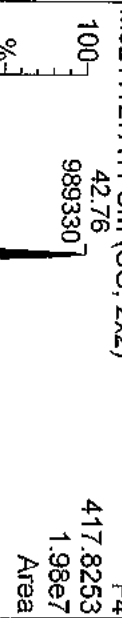
M3211027A11 Sm (SG, 2x2)



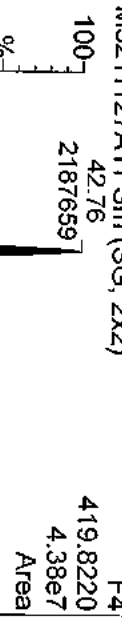
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:08:10 2021

Name: M3211027A11
 Text: db5_win_perf/CS3

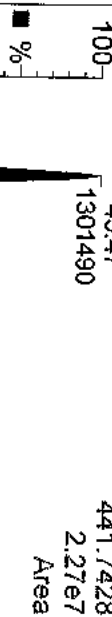
10: OCDF

11: 2,3,7,8-TCDD

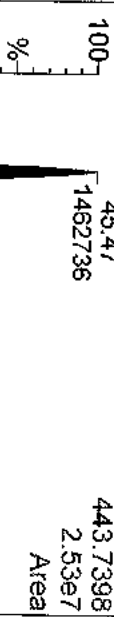
12: 1,2,3,7,8-PeCDD

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211027A11 Sm (SG, 2x2)



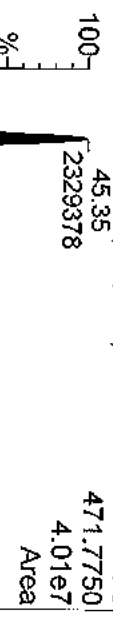
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

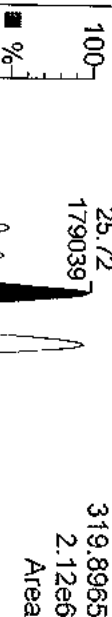


M3211027A11 Sm (SG, 2x2)

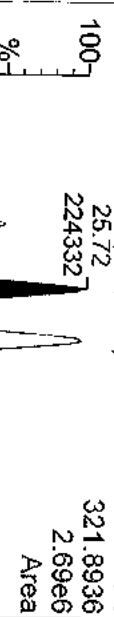


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

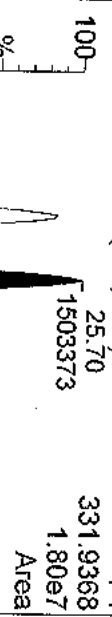
M3211027A11 Sm (SG, 2x2)



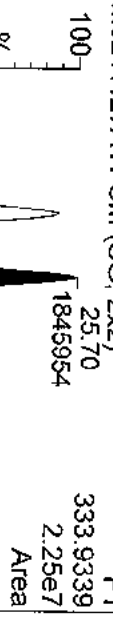
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

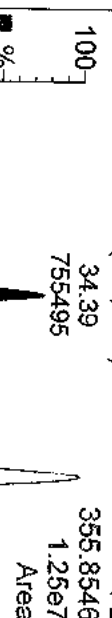


M3211027A11 Sm (SG, 2x2)

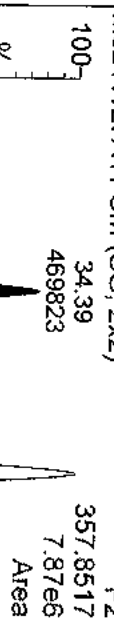


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

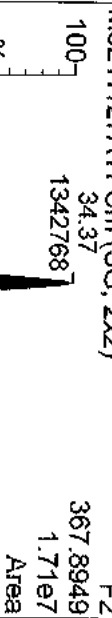
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSL\Default-pro\SMPL\EDB\M3211027A_1613_CAL1
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\Default-pro\METHOD\M3211027A_EC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:08:10 2021

Name: M3211127A11
 Text: db5_win_perf/CS3

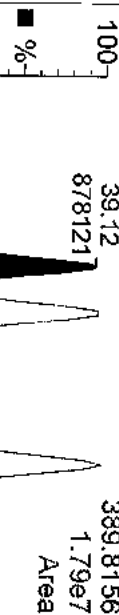
13: 1,2,3,4,7,8-HxCDD

14: 1,2,3,6,7,8-HxCDD

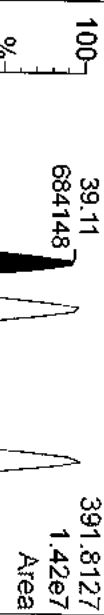
15: 1,2,3,7,8,9-HxCDD

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211127A11 Sm (SG, 2x2)



M3211127A11 Sm (SG, 2x2)



M3211127A11 Sm (SG, 2x2)

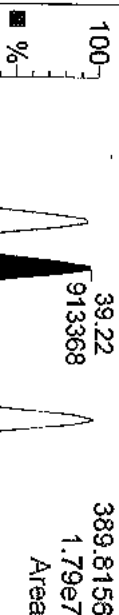


M3211127A11 Sm (SG, 2x2)

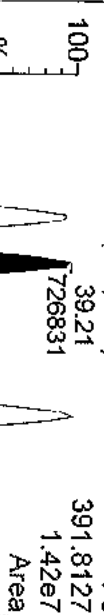


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

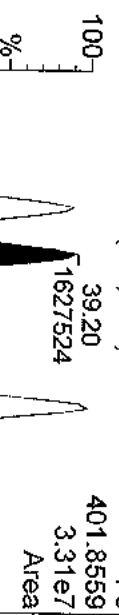
M3211127A11 Sm (SG, 2x2)



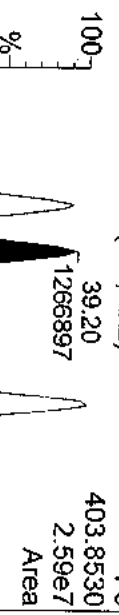
M3211127A11 Sm (SG, 2x2)



M3211127A11 Sm (SG, 2x2)

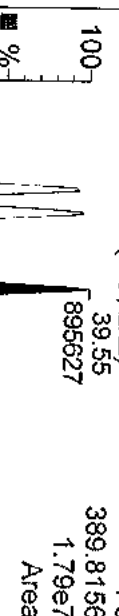


M3211127A11 Sm (SG, 2x2)

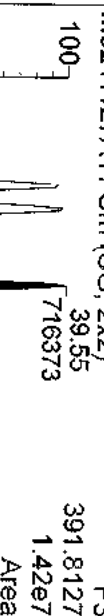


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

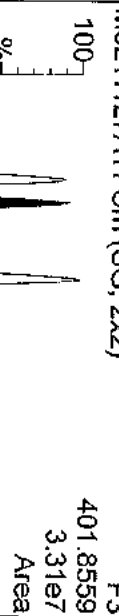
M3211127A11 Sm (SG, 2x2)



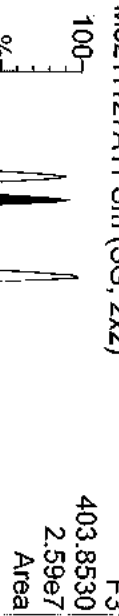
M3211127A11 Sm (SG, 2x2)



M3211127A11 Sm (SG, 2x2)



M3211127A11 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMPLDDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:08:10 2021

Name: M3211027A11
 Text: db5_win_perf/CS3

16: 1,2,3,4,6,7,8-HCDD

17: OCDD

33: 1,2C-1,2,3,4-TCDD

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

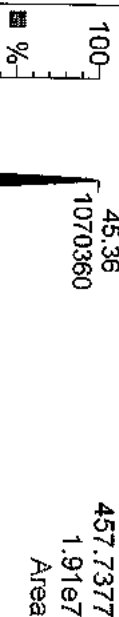


M3211027A11 Sm (SG, 2x2)

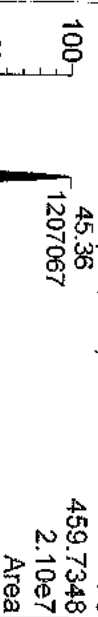


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

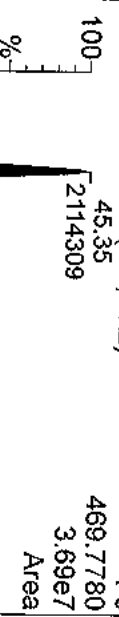
M3211027A11 Sm (SG, 2x2)



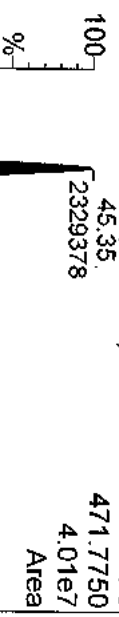
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)

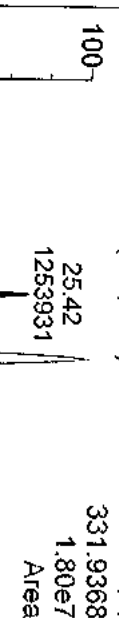


M3211027A11 Sm (SG, 2x2)

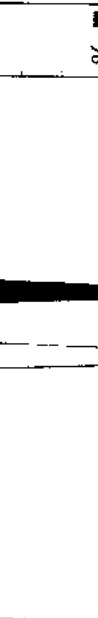


db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

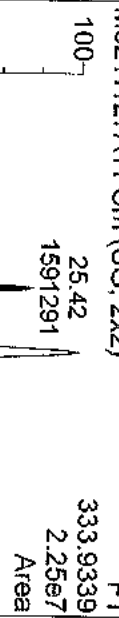
M3211027A11 Sm (SG, 2x2)



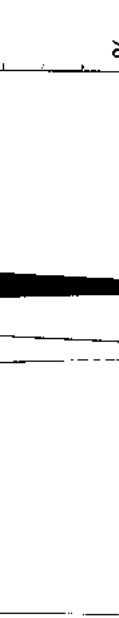
M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



M3211027A11 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSLYNK\Default-pro\SMPLMDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSLYNK\Default-pro\METHODS\M321127A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:08:10 2021

Name: M3211127A11
 Text: db5_win_perf/CS3

34: 13C-1,2,3,7,8,9-HCDD

35: C137-2,3,7,8-TCDD

39: Punction 1 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

db5_win_perf/CS3
 Lot CS3WT1020
 27-Nov-2021
 19:00:12

M3211127A11 Sm (SG, 2x2)
 39.54
 1688642
 F3
 401.8559
 3.31e7
 Area

M3211127A11 Sm (SG, 2x2)
 25.72
 349133
 F1
 327.8850
 4.21e6
 Area

M3211127A11 Sm (SG, 2x2)
 21.94
 22.68
 24.25
 25.61
 316.9824
 13.26e6
 F1

M3211127A11 Sm (SG, 2x2)
 39.54
 1331970
 F3
 403.8530
 2.59e7
 Area

M3211127A11 Sm (SG, 2x2)
 25.42
 1253931
 F1
 331.9368
 1.80e7
 Area

M3211127A11 Sm (SG, 2x2)
 25.42
 1591291
 F1
 333.9339
 2.25e7
 Area

%
 39.00
 40.00
 Time

%
 25.00
 26.00
 Time

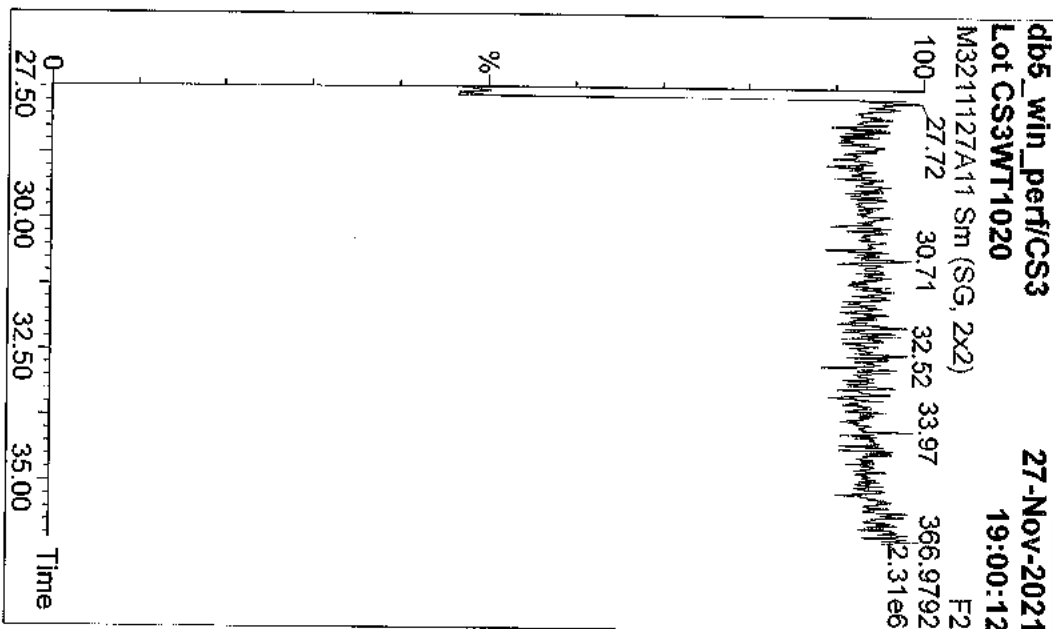
%
 22.00
 24.00
 26.00
 Time

Quantify Sample Report

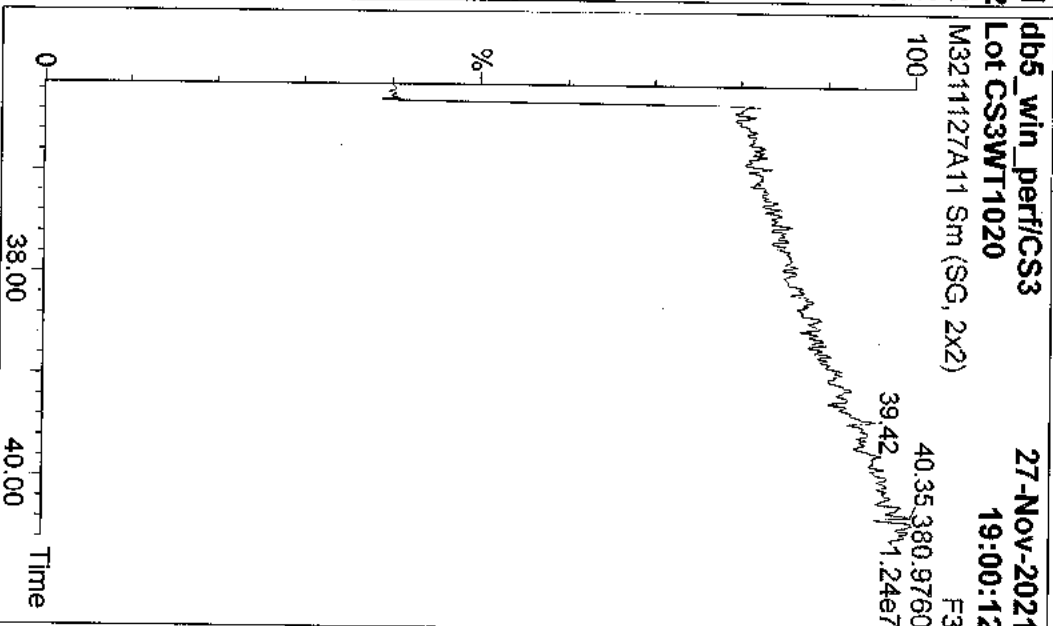
Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:
 Printed: Mon Nov 29 13:08:10 2021

Name: M3211027A1
 Text: db5_wln_perf/CS3

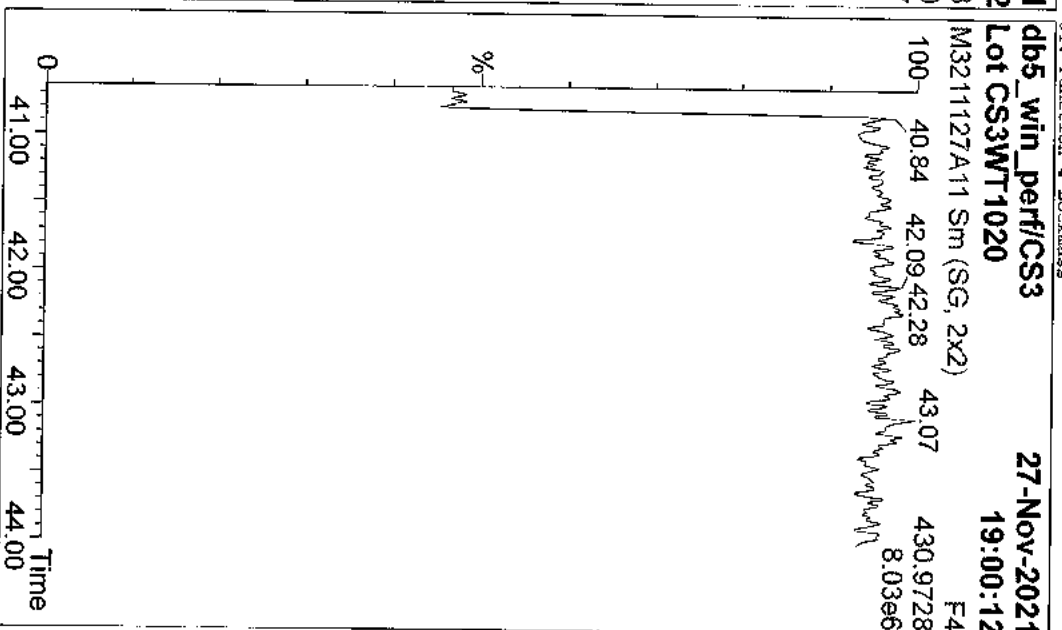
43: Function 2 Lockmass



47: Function 3 Lockmass



51: Function 4 Lockmass



Quantity Sample Report

Sample list: C:\MSSTL\X\Default.pro\SAMPLEDB\M3211027A_1613_CMT
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSSTL\X\Default.pro\METHODS\M3211027A_HC_std_1613
 Last modified: Mon Nov 29 13:05:57 2021
 Job Code:

Printed: Mon Nov 29 13:08:10 2021

Name: M3211027A1
 Text: db5_win_perf/CS3

S3: Function S LockMass

db5_win_perf/CS3 27-Nov-2021

Lot CS3WT1020 19:00:12

M3211027A1 Sm (SG, 2X2) F5

100 44.90 45.97 46.88 47.25 454.9728



AutoSpec Ultima - M536

27-Nov-2021

10:27:51

1: Voltage SIR 11 Channels EI+8

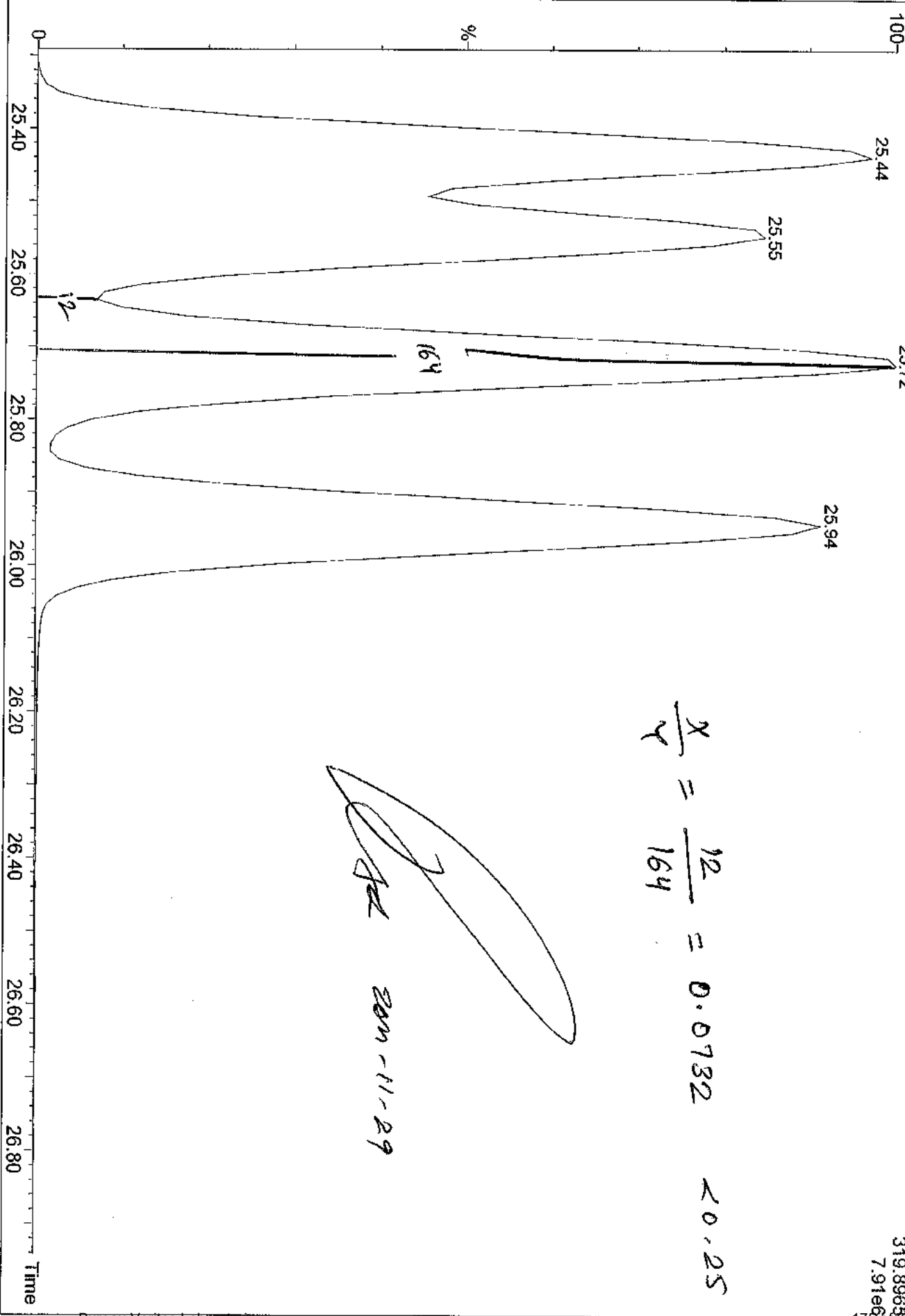
319.8965

7.91e6

db5_win_perf

19/05/03-WSS

MS21127A01A Sm (SG, 2x2)



$$\frac{x}{y} = \frac{12}{164} = 0.0732 < 0.25$$

Quantify Sample Report

Sample Name: C:\MASSIVE\Default-pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSIVE\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Mon Nov 29 13:04:26 2021

Name: M3211127A01A
 Text: db5_win_perf

36: Totale Tetra-Furane

db5_win_perf
 19/05/03-WSS

AutoSpec Ultima - M536

27-Nov-2021

10:27:51

M3211127A01A Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



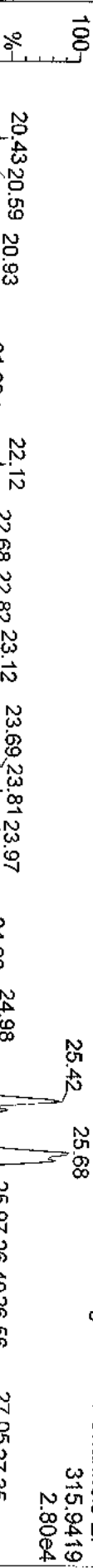
M3211127A01A Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211127A01A Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211127A01A Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



Quantify Sample Report

Sample List: C:\MASSL\X\Default.pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\X\Default.pro\METHODS\M3211027A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211027A01A
 Text: db5_win_perf

37: Totals Tetra-Dioxins

db5_win_perf
 19/05/03-WSS

M3211027A01A Sm (SG, 2x2)

AutoSpec Ultima - M536

27-Nov-2021

10:27:51



M3211027A01A Sm (SG, 2x2)



M3211027A01A Sm (SG, 2x2)



M3211027A01A Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSSPEX\Default.pro\SAMPLES\M3211027A_1613_CAU1
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSSPEX\Default.pro\METHODS\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M321127A01A
 Text: db5_win_perf

35: C137-2,3,7,8-TCDD

db5_win_perf
 19/05/03-WSS

AutoSpec Ultima - M536

27-Nov-2021

10:27:51

M321127A01A Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M321127A01A Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M321127A01A Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M321127A01A Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



Quantify Sample Report

Sample List: C:\MASSL\XN\Default-Pro\SAMPLEDB\M3211027A_1613_CALI
 Last Modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\XN\Default-Pro\METHOD\M3211127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211127A01A
 Text: db5_win_perf

38: Hexa DFB

db5_win_perf
 19/05/03-WSS

M3211127A01A Sm (SG, 2X2)

AutoSpec Ultima - M536

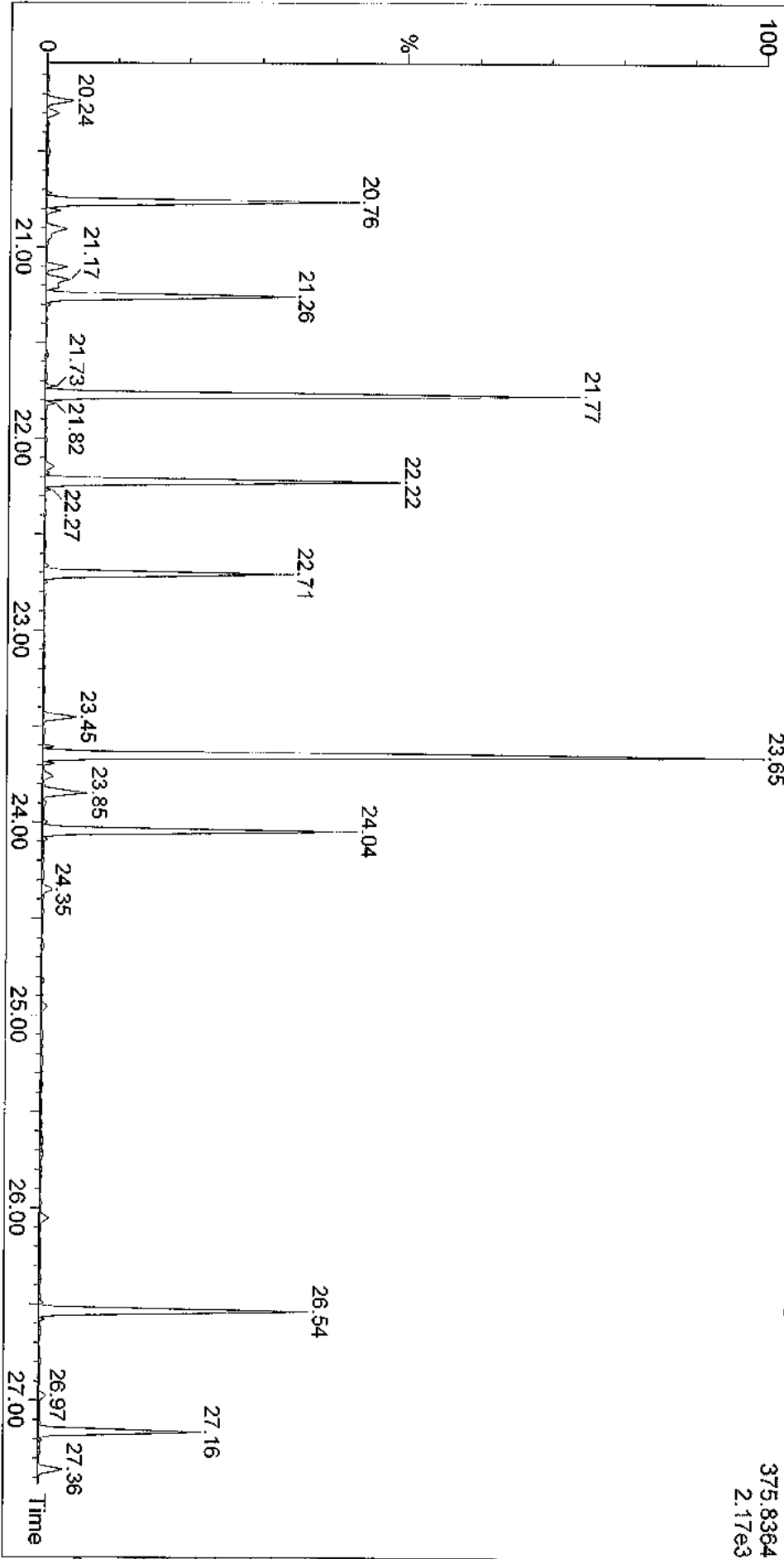
27-Nov-2021

10:27:51

1: Voltage SIF 11 Channels EI+

375.8364

2.17e3



Quantify Sample Report

Sample List: C:\MASS\JUNK\Default.pro\SMPLMDB\M3211027A_1613_CAL1
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASS\JUNK\Default.pro\METHOD\M3211027A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211027A01A
 Text: db5_wln_perf

39: Function 1 LockMass

db5_wln_perf
 19/05/03-WSS

M3211027A01A Sm (SG, 2x2)

AutoSpec Ultima - M536

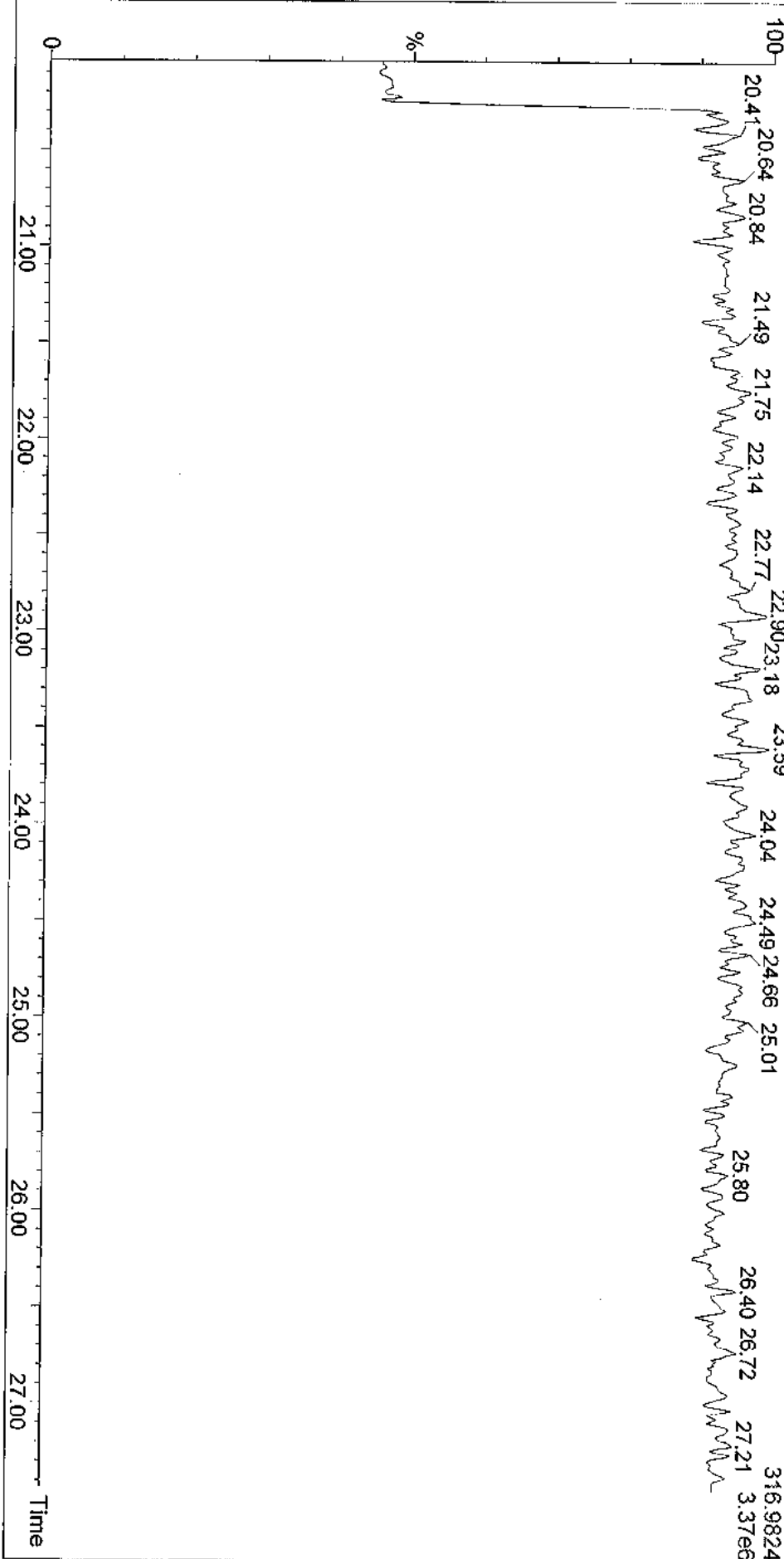
27-Nov-2021

10:27:51

1: Voltage SIR 11 Channels EI+

316.9824

27.21 3.37e6



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMFLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211127A01A
 Text: db5_wm_perf

40: Totals: Peaks: 40

db5 win perf
 19/05/03-WSS

AutoSpec Ultima - M536

27-Nov-2021

10:27:51

M3211127A01A Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

1355075

35.31 339.8597 1.47e7 Area

27.77

1027409

29.97 151472

32.76 1562

M3211127A01A Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

858456

35.31 341.8568 9.41e6 Area

27.77

652286

29.97 95285

32.73 1033

M3211127A01A Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

27.75

36.01 351.9000 5.16e3

28.81

35.15 353.8970 6.61e3

28.46

35.75

M3211127A01A Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

27.70

35.19

28.09 28.64 28.83 29.03 29.74 30.06

35.15 353.8970 6.61e3

28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00

Time

Quantity Sample Report

Sample List: C:\MSDCHEM\Default.Pro\SMFLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.Pro\METHODS\M3211027A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211027A01A
 Text: db5_win_perf

42: Hepta DPE

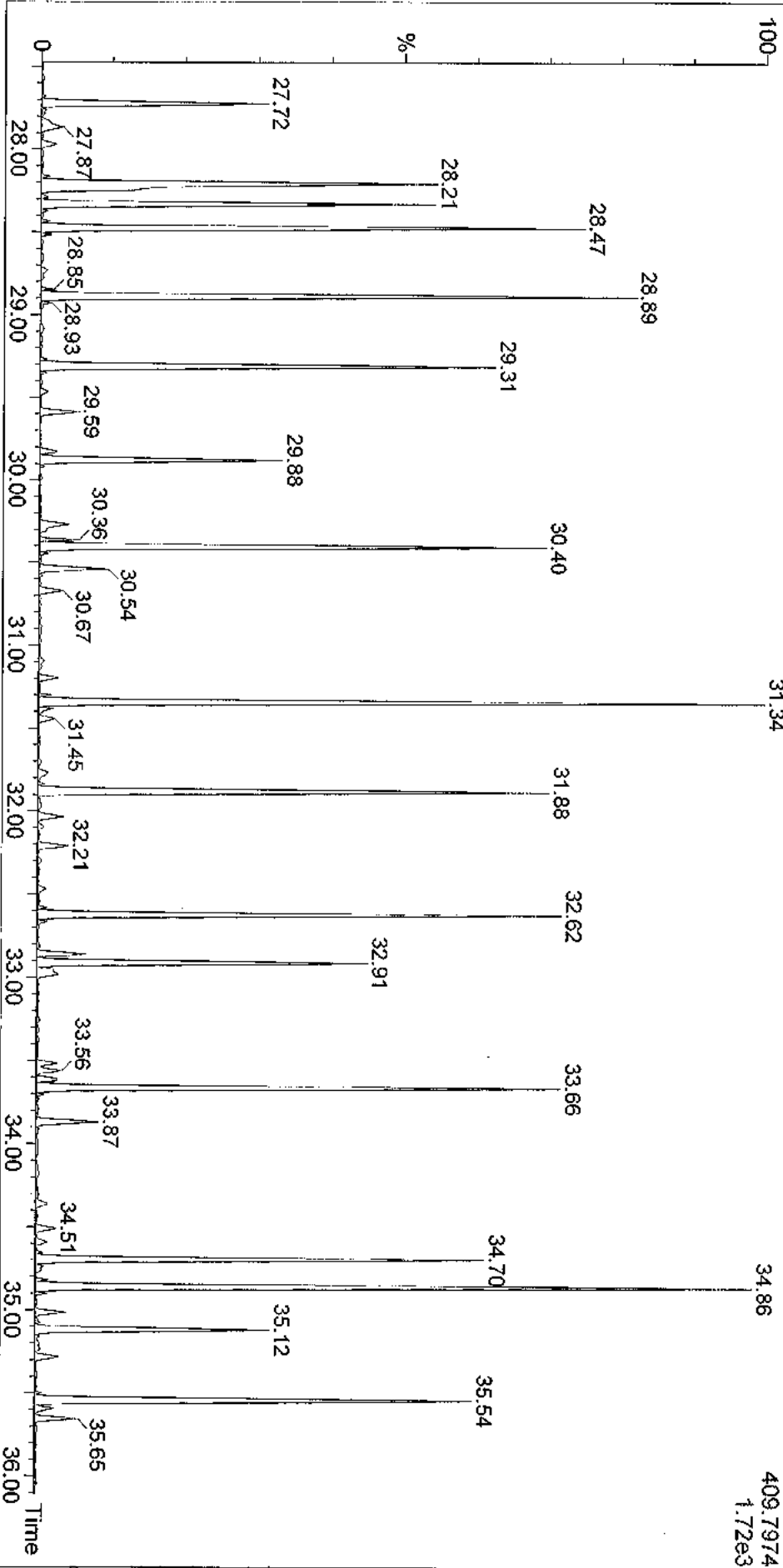
db5_win_perf
 19/05/03-WSS

M3211027A01A Sm (SG, 2x2)

AutoSpec Ultima - M536

27-Nov-2021
 10:27:51

2: Voltage SIR 10 Channels EI+
 409.7974
 1.72e3



Quantify Sample Report

Sample List: C:\MASSVIEW\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M3211027A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211027A01A
 Text: db5_win_perf

43: Function 2 LockMass

db5_win_perf
 19/05/03-WSS

M3211027A01A Sm (SG, 2x2)

100 27.67 28.05 28.24 28.98 29.22 29.64

30.58 30.96 31.11 31.76

32.51 33.07 33.36

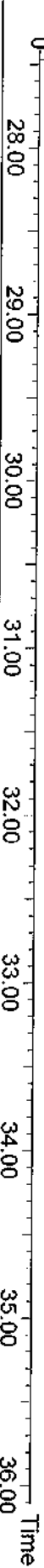
34.14 34.25

35.26 35.60 36.03 2.32e6

2: Voltage SIF 10 Channels EI+

27-NOV-2021
 10:27:51

AutoSpec Ultima - M536



Quantify Sample Report

Sample List: C:\MASSIVE\Default-Pro\SAMPLES\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSIVE\Default-Pro\METHOD\M3211027A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

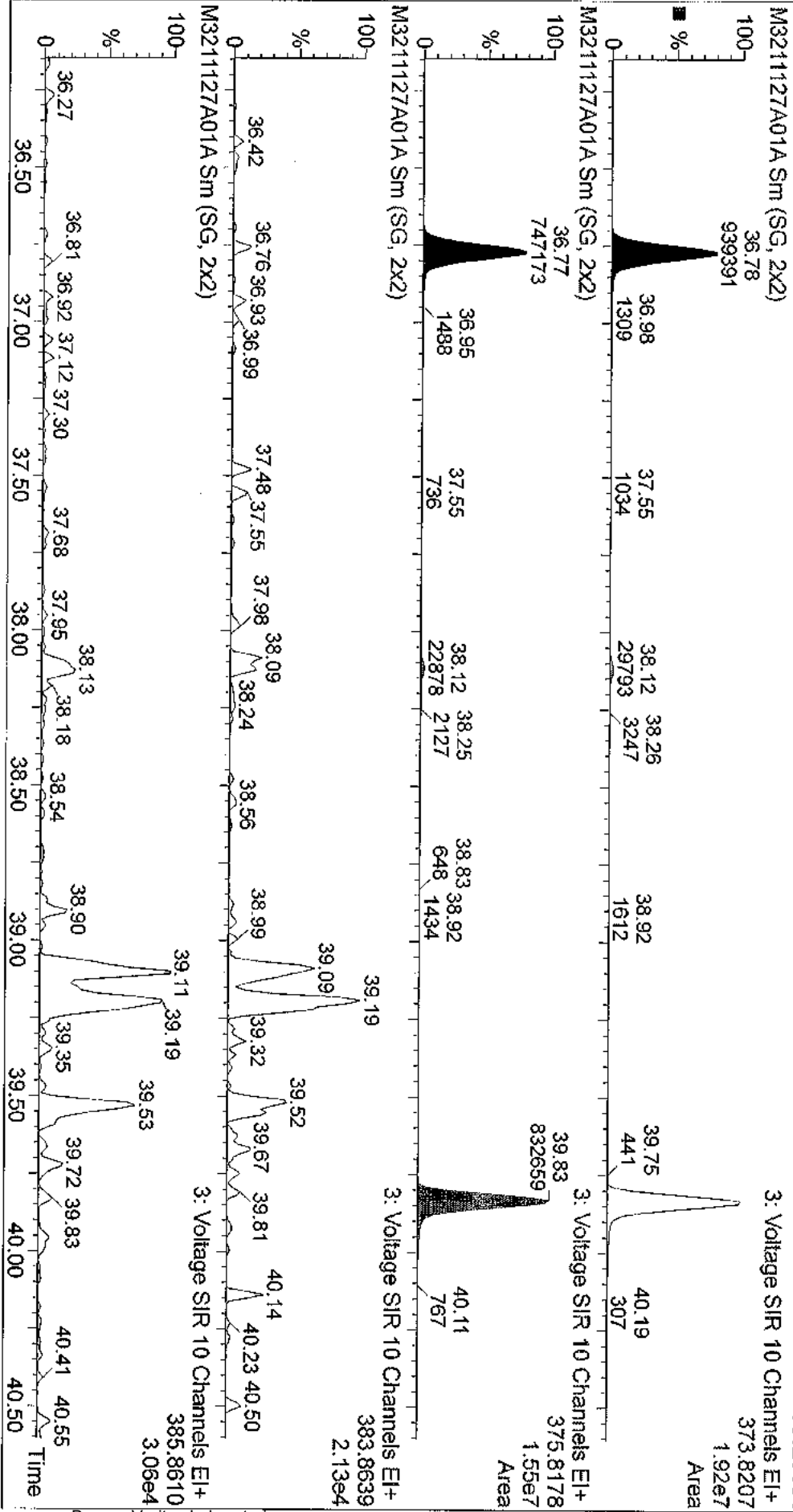
Name: M3211027A01A
 Text: db5_win_perf

44: Total Hexa-Furans

db5_win_perf
 19/05/03-WSS

AutoSpec Ultima - M536

27-Nov-2021
 10:27:51



Quantity Sample Report

Sample List: C:\MASSL\Default-pro\SAMPLES\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\Default-pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M321127A01A
 Text: db5_win_perf

45: Totals Hexa-Dioxins

db5_win_perf
 19/05/03-WSS

M321127A01A Sm (SG, 2x2)

AutoSpec Ultima - M536

27-Nov-2021

10:27:51



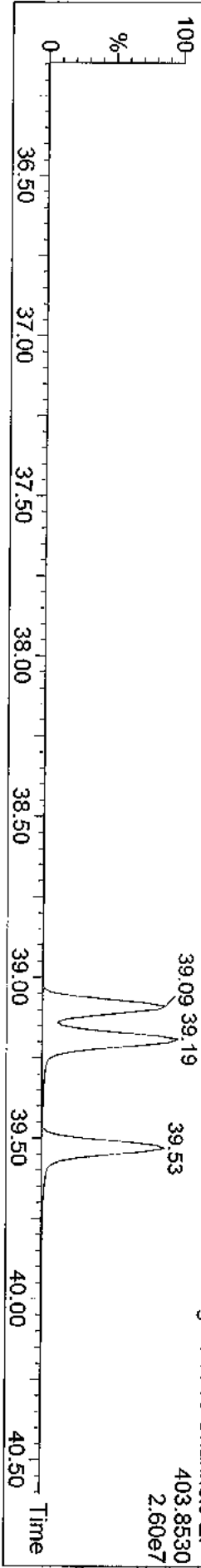
M321127A01A Sm (SG, 2x2)



M321127A01A Sm (SG, 2x2)



M321127A01A Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSL\X\Default-pro\SMPLRDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MASSL\X\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M321127A01A
 Text: db5_wln_perf

46: Octa DBS

db5_wln_perf
 19/05/03-WSS

M321127A01A Sm (SG, 2X2)

AutoSpec Ultima - M536

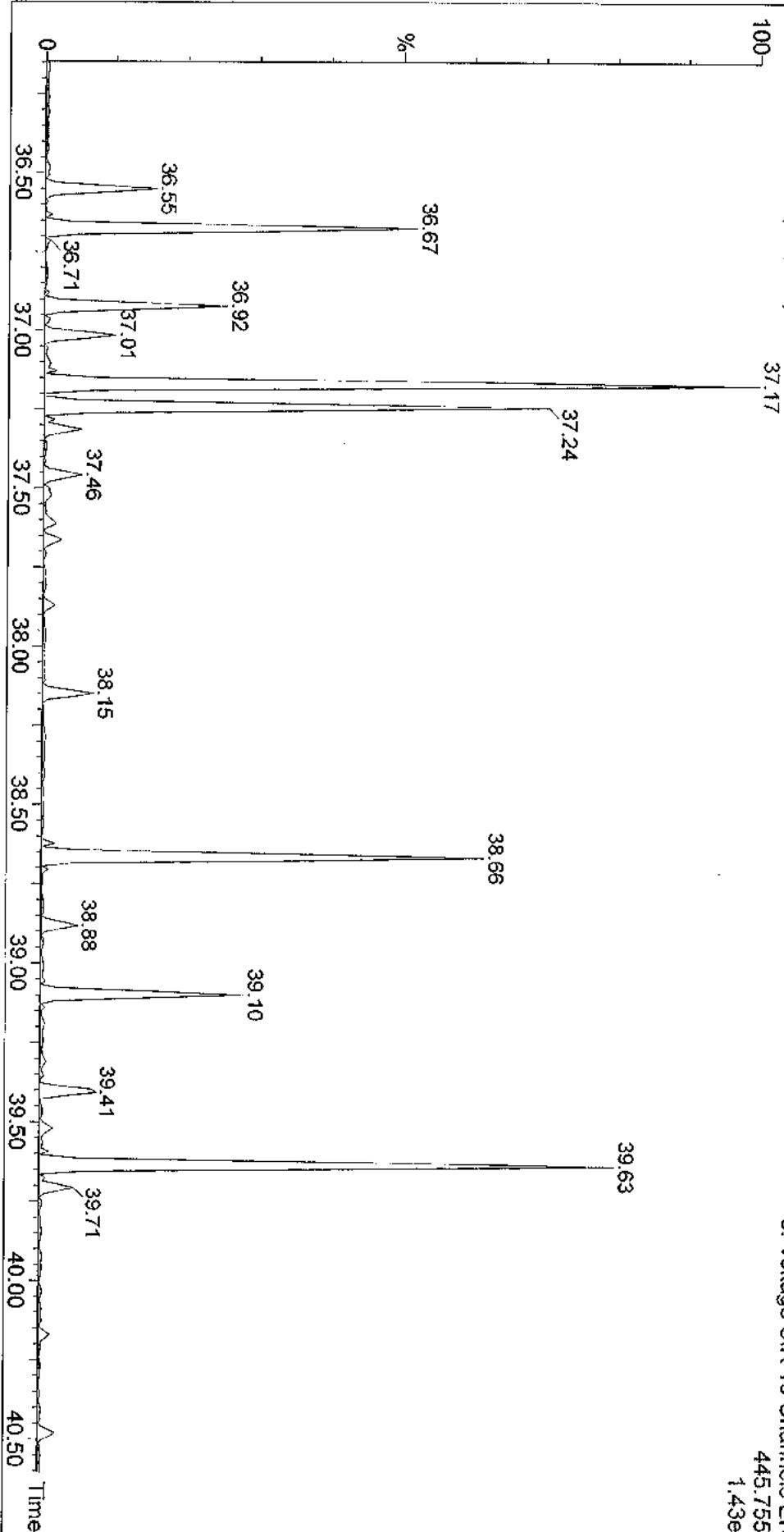
27-Nov-2021

10:27:51

3: Voltage SIF 10 Channels EI+

445.7555

1.43e3



Quantity Sample Report

Sample List: C:\MASTURN\Default.pro\SAMPLEDB\M3211027A_1613_CALI
Last modified: Mon Nov 29 09:57:39 2021
Method: C:\MASTURN\Default.pro\METHOD\M3211027A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211027A01A
Text: db5_win_perf

47: Function 3 Lockmass

db5_win_perf
19/05/03-WSS

M3211027A01A Sm (SG, 2x2)

AutoSpec Ultima - M536

27-Nov-2021

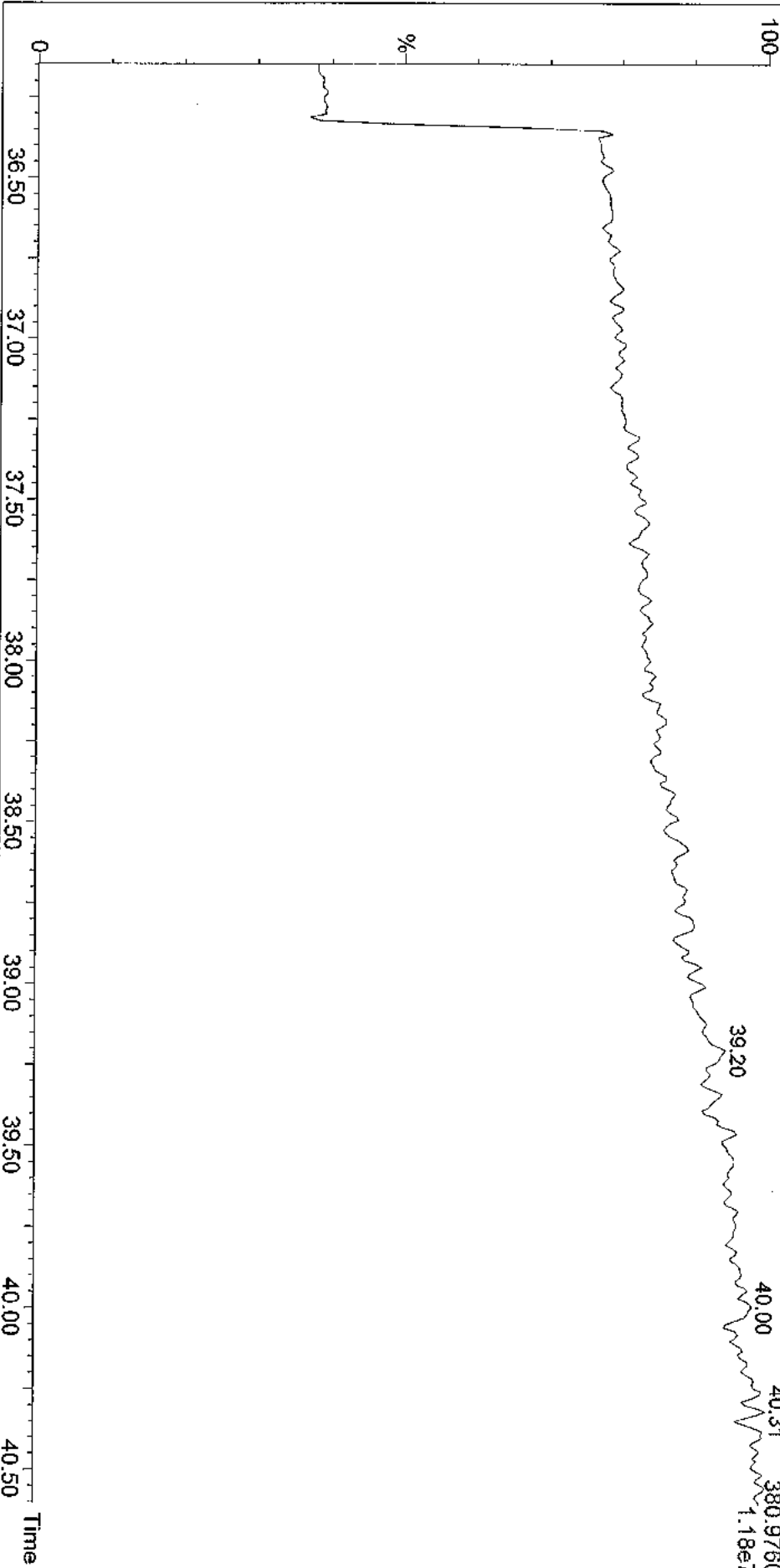
10:27:51

3: Voltage SIR 10 Channels EI+

40.00 40.31 380.9760

39.20

1.18e7



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M321127A_1613_CALT
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M321127A01A
 Text: db5_win_perf

43: Totals Hepta-Furans

db5_win_perf
 19/05/03-WSS

AutoSpec Ultima - M536

27-Nov-2021

10:27:51

M321127A01A Sm (SG, 2X2)

4: Voltage SIR 10 Channels EI+

407.7818

2.0467

Area

M321127A01A Sm (SG, 2X2)

4: Voltage SIR 10 Channels EI+

409.7788

1.93e7

Area

M321127A01A Sm (SG, 2X2)

4: Voltage SIR 10 Channels EI+

417.8253

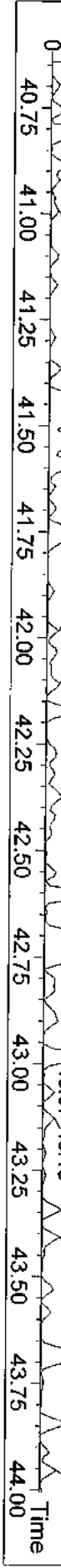
8.45e3

M321127A01A Sm (SG, 2X2)

4: Voltage SIR 10 Channels EI+

419.8220

9.68e3



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M321127A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M321127A01A
 Text: db5_wln_perf

49: Totals Hepta-Dioxins

db5_wln_perf
 19/05/03-WSS

M321127A01A Sm (SG, 2x2)

AutoSpec Ultima - M536

27-Nov-2021

10:27:51

4: Voltage SIR 10 Channels EI+

423.7767

1.54e7

Area

43.85

312

41.66

621

41.76

729966

42.41

606213

42.41

618802

41.65

5676

43.88

423

435.8169

2.98e5

4: Voltage SIR 10 Channels EI+

42.40

4: Voltage SIR 10 Channels EI+

437.8140

2.92e5

42.40

4: Voltage SIR 10 Channels EI+

437.8140

2.92e5

42.40

4: Voltage SIR 10 Channels EI+

437.8140

2.92e5

42.40

4: Voltage SIR 10 Channels EI+

437.8140

2.92e5

Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMPLD08\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211027A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211027A01A
 Text: db5_win_perf

SO: Nona.DPE

db5_win_perf
 19/05/03-WSS

M3211027A01A Sm (SG, 2x2)

AutoSpec Ultima - M536

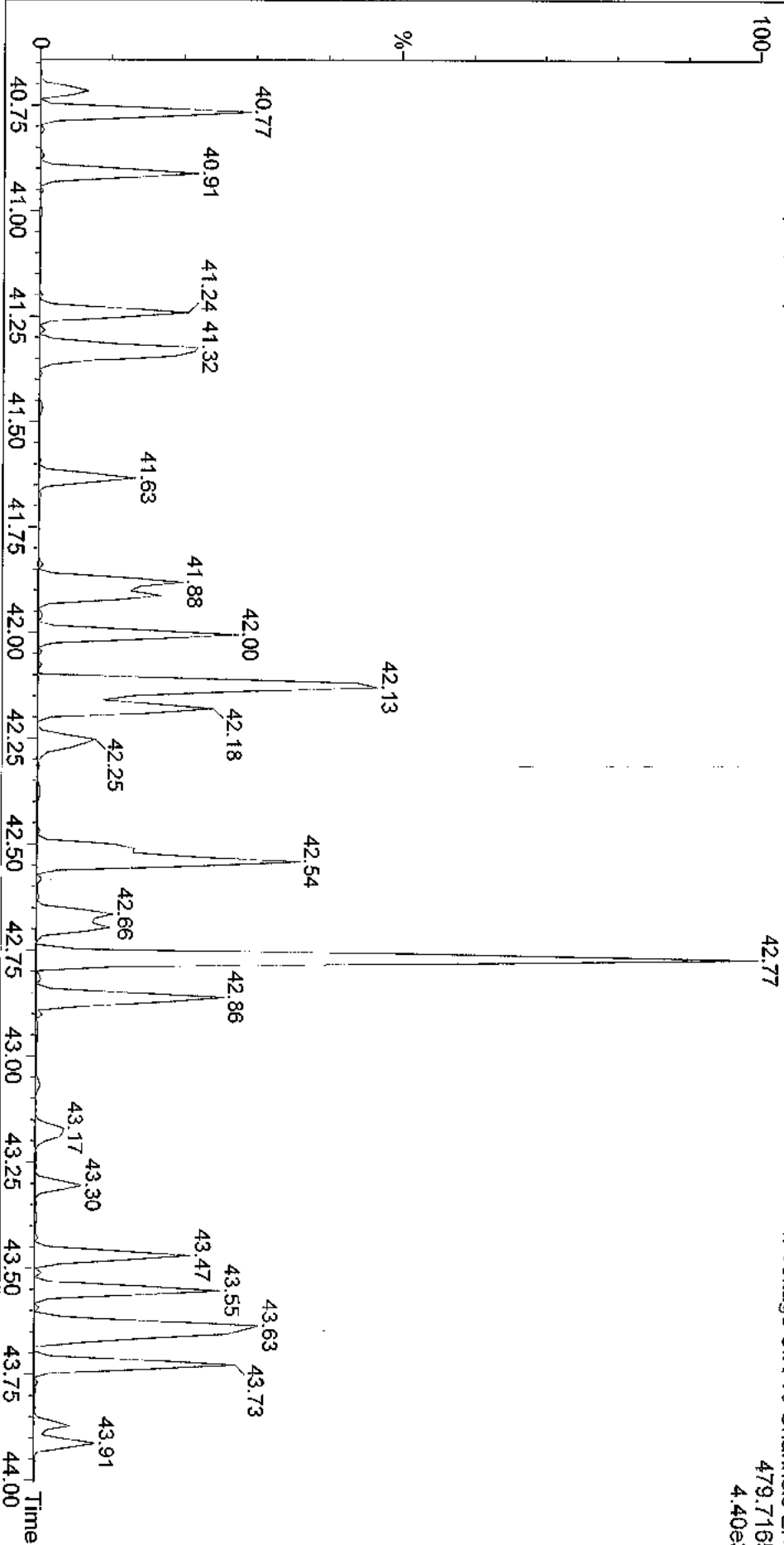
27-Nov-2021

10:27:51

4: Voltage SIR 10 Channels EI+

479.7165

4.40e3



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211027A_1613_CALI
Last modified: Mon Nov 29 09:57:39 2021
Method: C:\MSDCHEM\Default.pro\METHODS\M3211127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211127A01A
Text: db5_win_perf

SI: Function 4 Lockmass

db5_win_perf
19/05/03-WSS

M3211127A01A Sm (SG, 2x2)

AutoSpec Ultima - M536

27-Nov-2021

10:27:51

4: Voltage SIF 10 Channels EI+

43.19

43.69

430.9728

8.20e6

41.82

40.79

40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

Quantity Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211027A_1613_CALT
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211027A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M3211127A01A
 Text: db5_win_perf

10: ODMF

db5_win_perf
 19/05/03-WSS

AutoSpec Ultima - M536

27-Nov-2021

10:27:51

M3211127A01A Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

441.7428

9.66e6

M3211127A01A Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

443.7398

1.06e7

M3211127A01A Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

469.7780

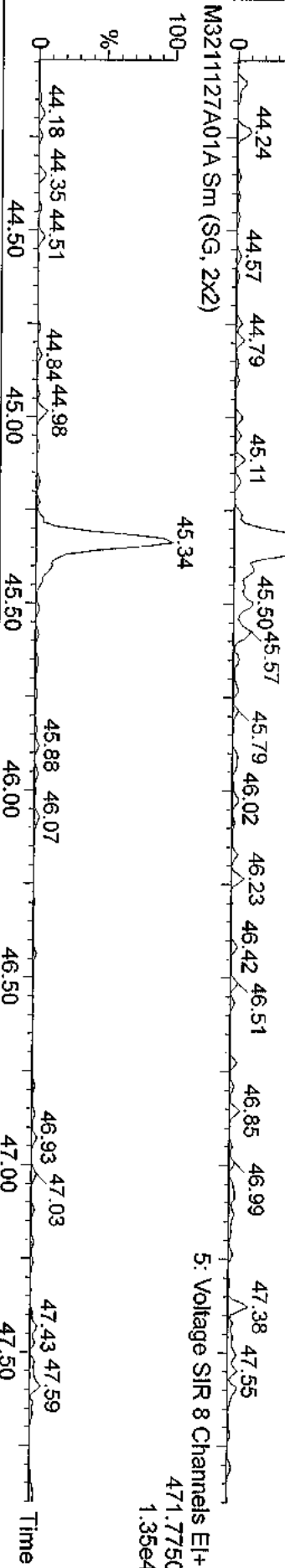
1.08e4

M3211127A01A Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

471.7750

1.35e4



```
Sample List: C:\MSSTLTX\Default.prp\SAMPLEDB\M3211027A_1613_CALI
last modified: Mon Nov 29 09:57:39 2021
Method: C:\MSSTLTX\Default.prp\METHOD\M3211127A_HC_1613
last modified: Mon Nov 29 13:04:11 2021
Job Code:
```

Printed: Mon Nov 29 13:04:26 2021

17: OECD

AutoSpec Ultimate - M536

27-Nov-2021

5: Voltage SIR 8 Channels E1+

457.7377
7.29e6

5: Voltage SIR 8 Channels EI+
459.7348
8.09e6

5: Voltage SIF 8 Channels EI+
469.7780
1.08e4

471.7750
1.35e4
5: Voltage SIR 8 Channels EI+

Time

Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211027A_1613_CALI
Last modified: Mon Nov 29 09:57:39 2021
Method: C:\MSDCHEM\Default.pro\METHODS\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Mon Nov 29 13:04:26 2021

Name: M321127A01A
Text: db5_win_perf

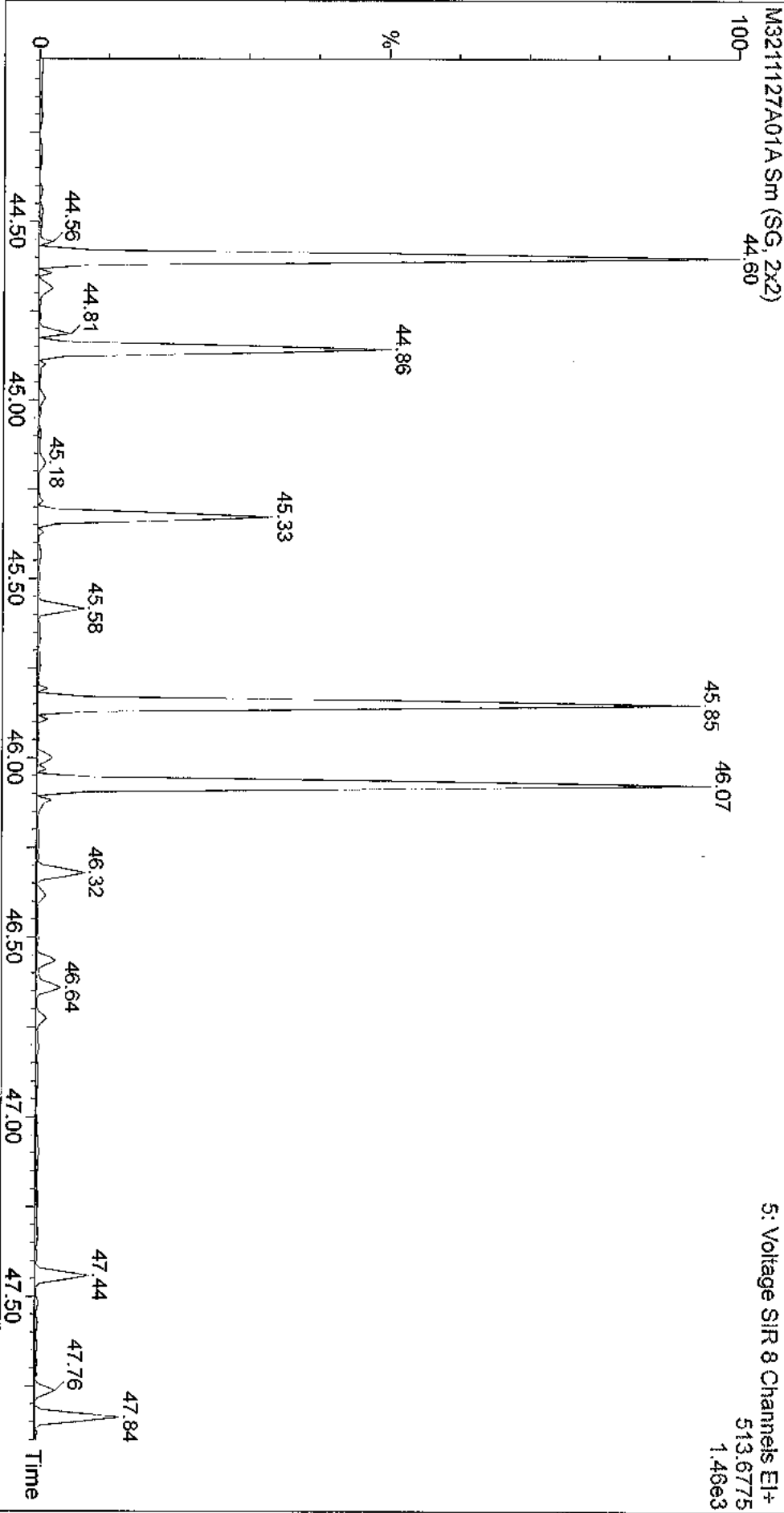
S2: Deca DEE

db5_win_perf
19/05/03-WSS
M321127A01A Sm (SG, 2x2)

27-Nov-2021
10:27:51

5: Voltage S/R 8 Channels EI+

513.6775
1.46e3



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211027A_1613_CALI
 Last modified: Mon Nov 29 09:57:39 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M3211027A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Mon Nov 29 13:04:26 2021

Name: M3211027A01A
 Text: db5_win_perf

53: Function 5 Lockmass

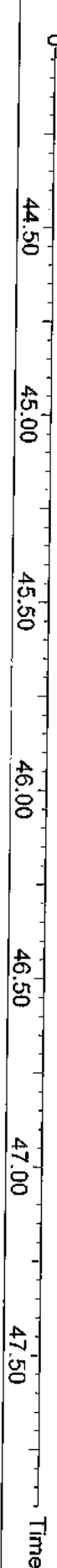
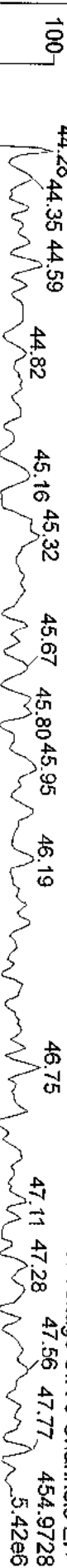
db5_win_perf
 19/05/03-WSS

AutoSpec Ultima - M536

27-Nov-2021
 10:27:51

M3211027A01A Sm (SG, 2x2)

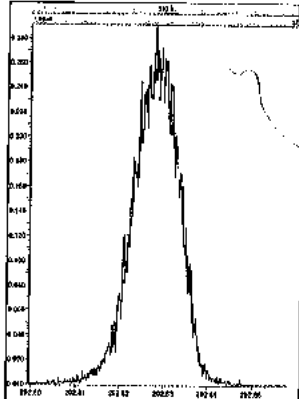
5: Voltage SIR 8 Channels EI+



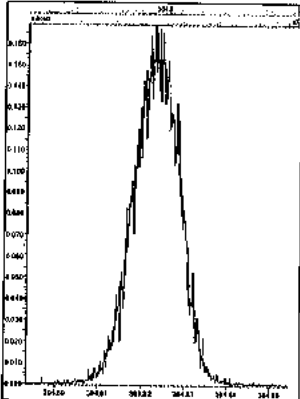
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, November 27, 2021 07:56:26 Eastern Standard Time

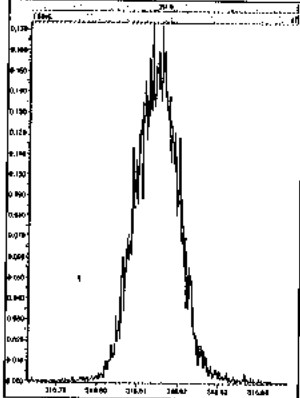
M 292.9824 R 12690



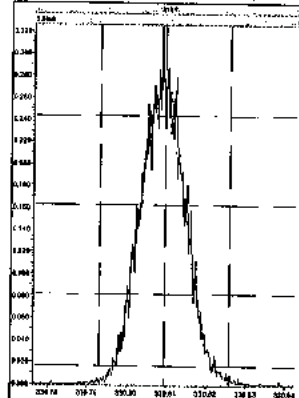
M 304.9824 R 12824



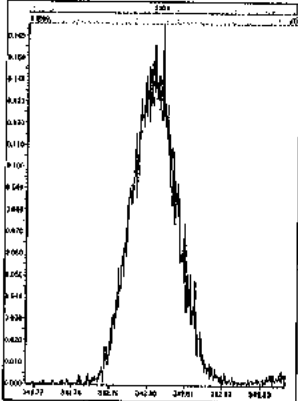
M 318.9792 R 13365



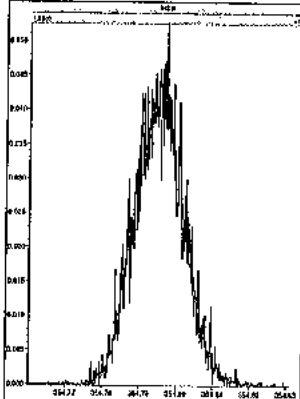
M 330.9792 R 13966



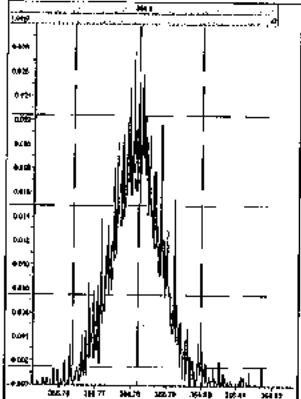
M 342.9792 R 12693



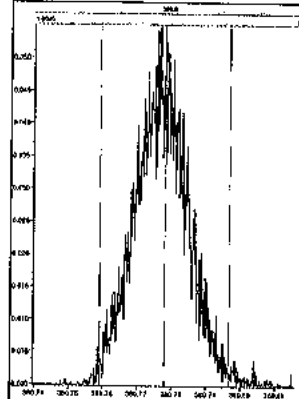
M 354.9792 R 12310



M 366.9792 R 13965



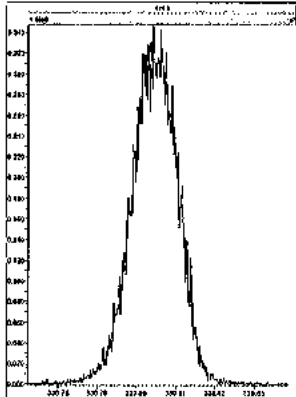
M 380.9760 R 10919



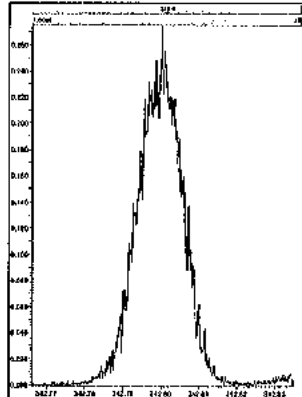
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, November 27, 2021 07:57:10 Eastern Standard Time

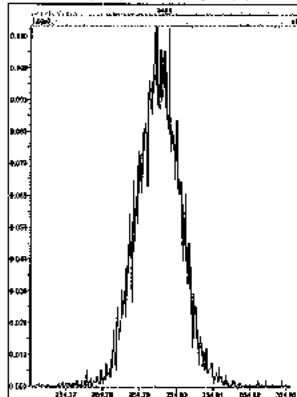
M 330.9792 R 12315



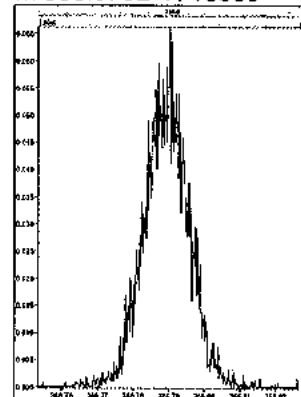
M 342.9792 R 13086



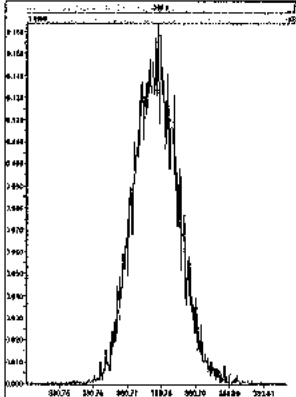
M 354.9792 R 13441



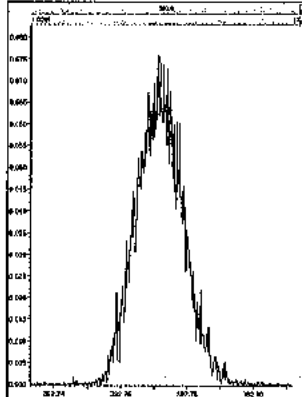
M 366.9792 R 13585



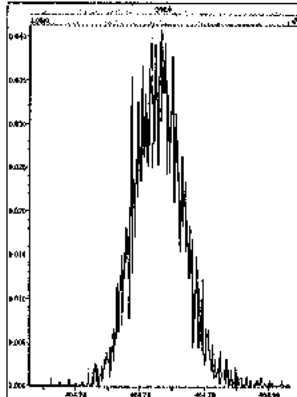
M 380.9760 R 13160



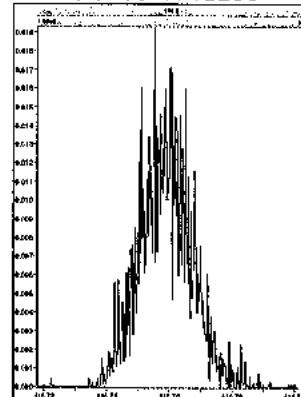
M 392.9760 R 12690



M 404.9760 R 12753



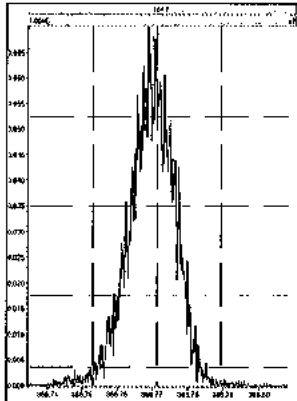
M 416.9760 R 13299



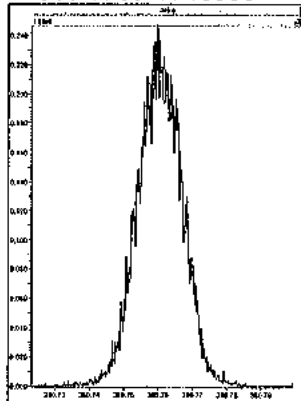
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, November 27, 2021 07:57:41 Eastern Standard Time

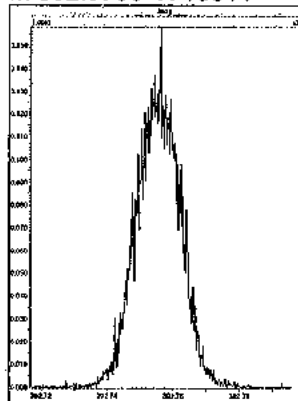
M 366.9792 R 14042



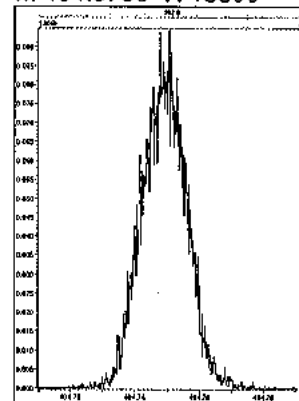
M 380.9760 R 13365



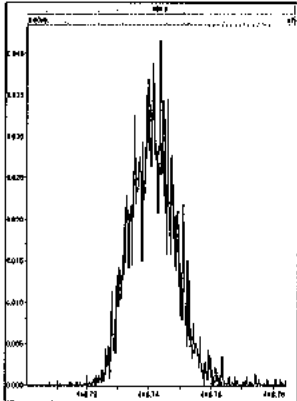
M 392.9760 R 13811



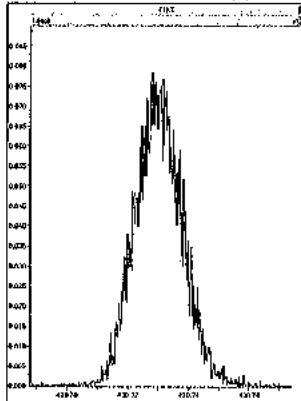
M 404.9760 R 13809



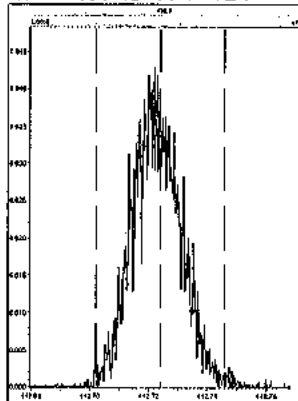
M 416.9760 R 13967



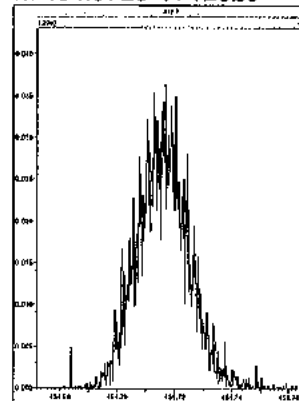
M 430.9728 R 12566



M 442.9728 R 14121



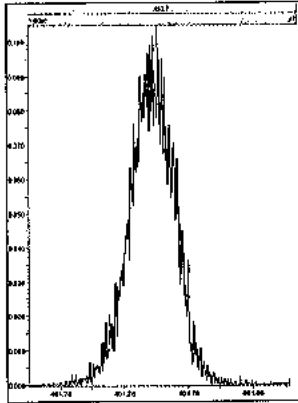
M 454.9728 R 12626



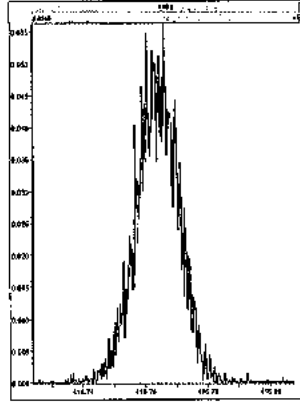
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, November 27, 2021 07:58:06 Eastern Standard Time

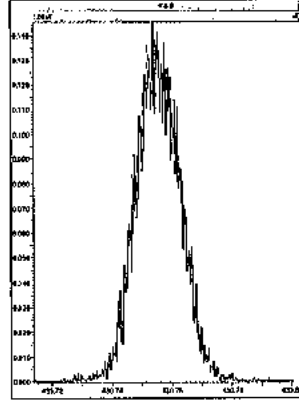
M 404.9760 R 12885



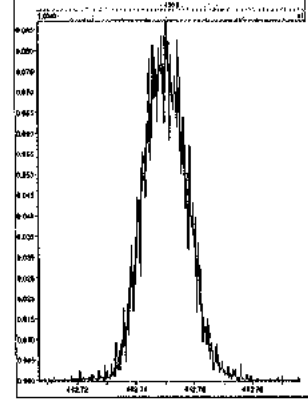
M 416.9760 R 13808



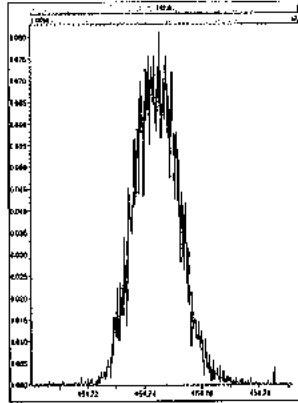
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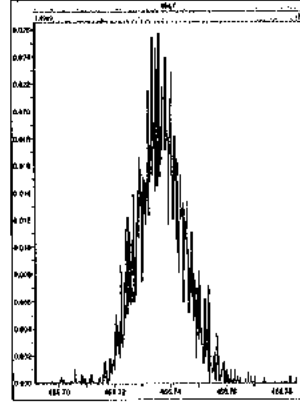
M 442.9728 R 13810



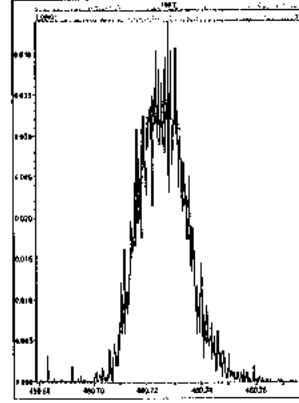
M 454.9728 R 14205



M 466.9728 R 13815



M 480.9696 R 12624

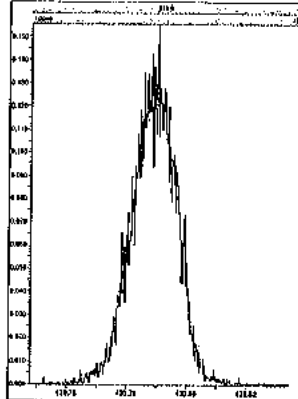
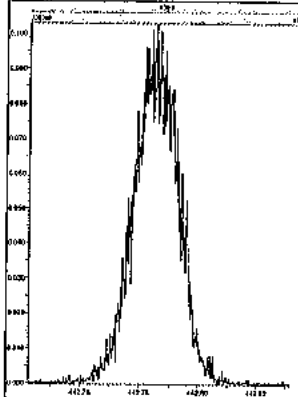
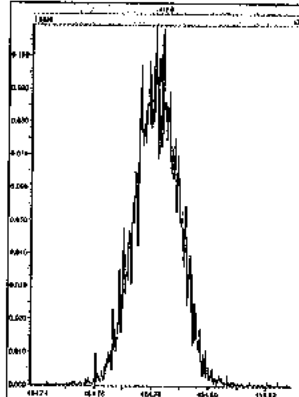
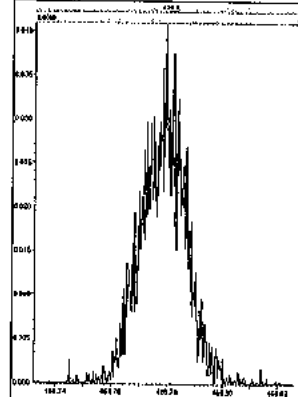
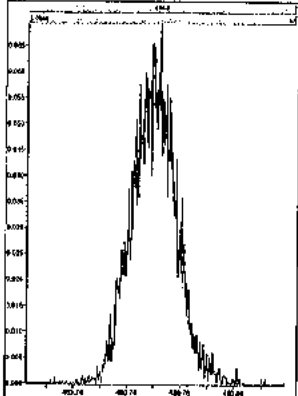
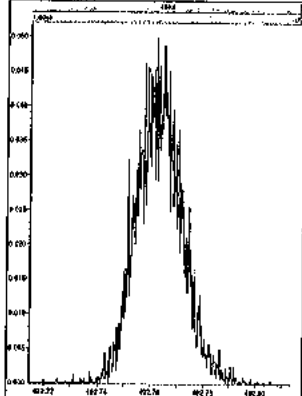
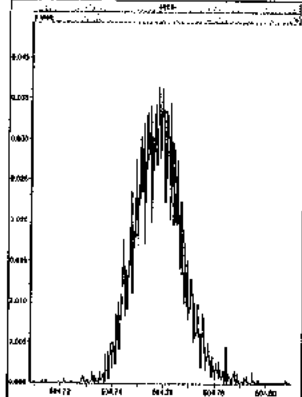
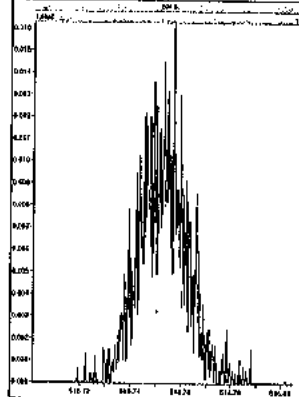


Experiment Calibration Report**MassLynx 4.1**

Page 1 of 1

File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

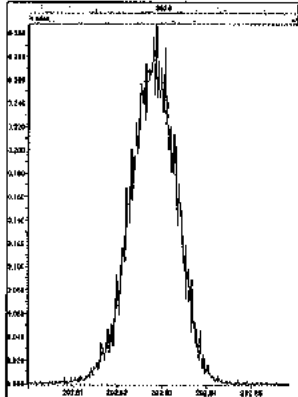
Printed: Saturday, November 27, 2021 07:58:28 Eastern Standard Time

M 430.9728 R 13737**M 442.9728 R 13024****M 454.9728 R 13442****M 466.9728 R 14706****M 480.9696 R 12625****M 492.9696 R 13813****M 504.9696 R 12690****M 516.9697 R 13814**

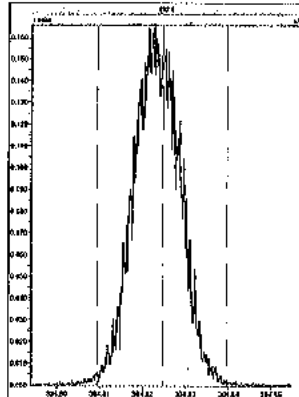
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, November 27, 2021 20:45:29 Eastern Standard Time

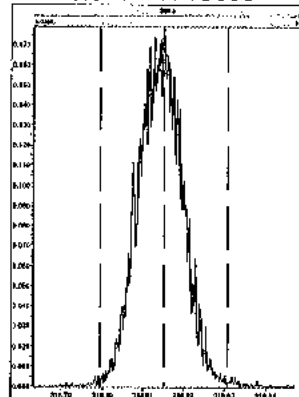
M 292.9824 R 12563



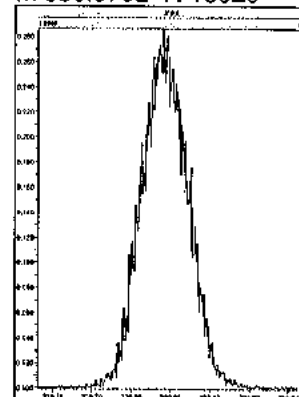
M 304.9824 R 12688



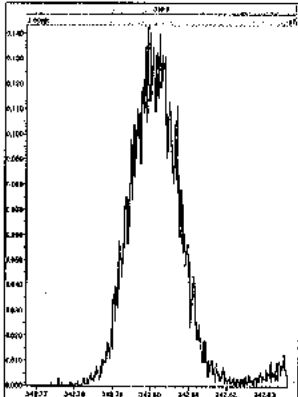
M 318.9792 R 13663



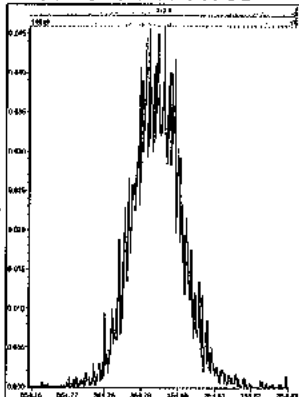
M 330.9792 R 13020



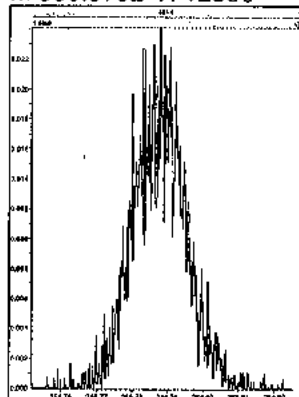
M 342.9792 R 12139



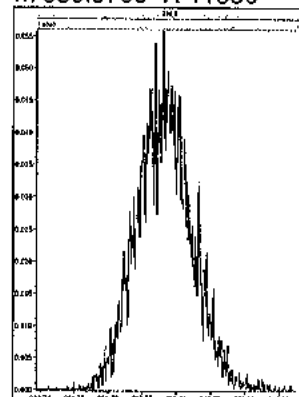
M 354.9792 R 11793



M 366.9792 R 12380



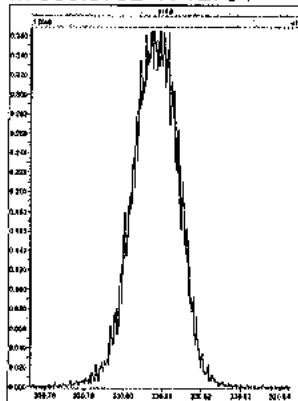
M 380.9760 R 11850



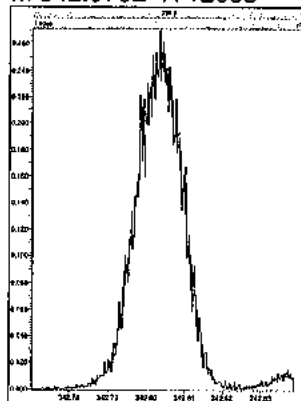
File: Experiment: 1613_ult3.exp Reference: plk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, November 27, 2021 20:46:08 Eastern Standard Time

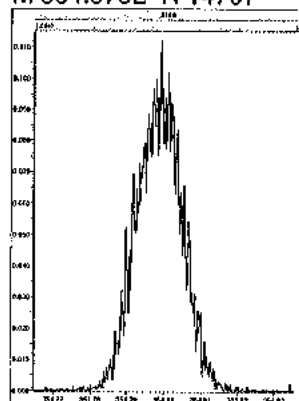
M 330.9792 R 12754



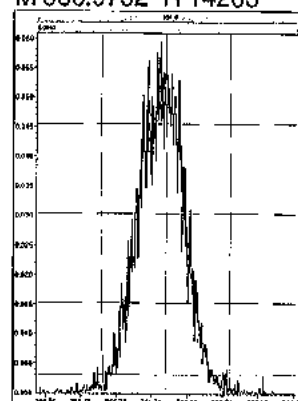
M 342.9792 R 12688



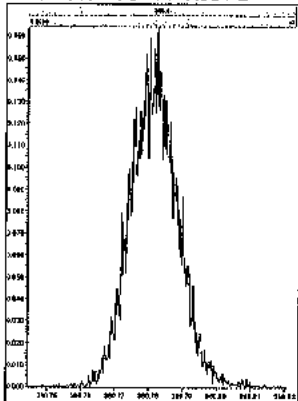
M 354.9792 R 14707



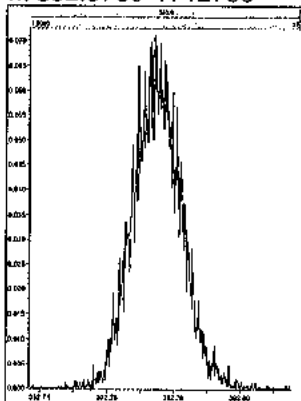
M 366.9792 R 14203



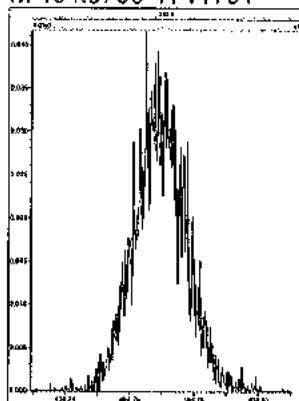
M 380.9760 R 12373



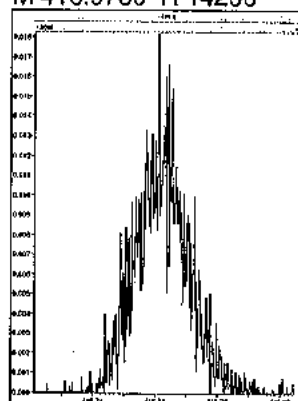
M 392.9760 R 12755



M 404.9760 R 11791



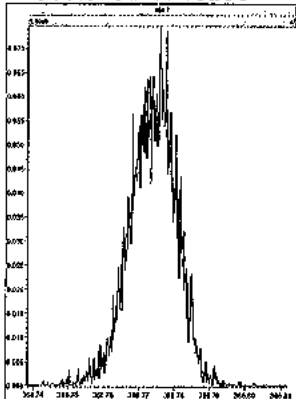
M 416.9760 R 14206



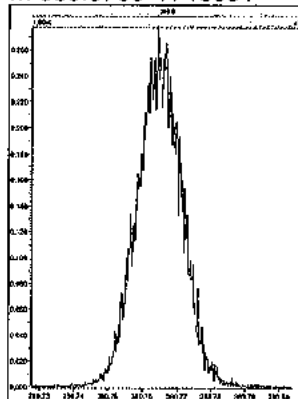
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, November 27, 2021 20:46:39 Eastern Standard Time

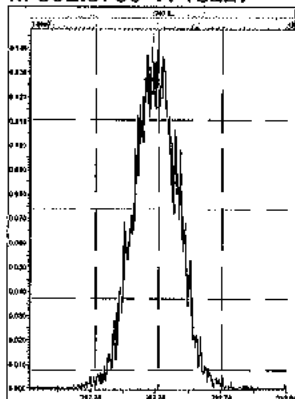
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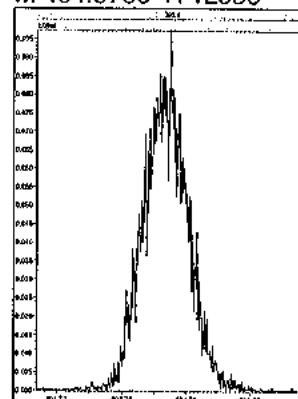
M 380.9760 R 13091



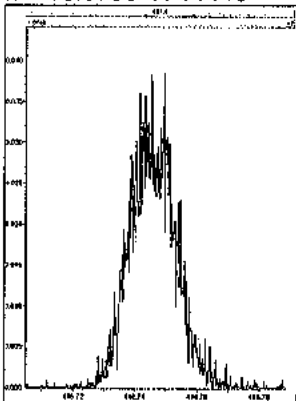
M 392.9760 R 13227



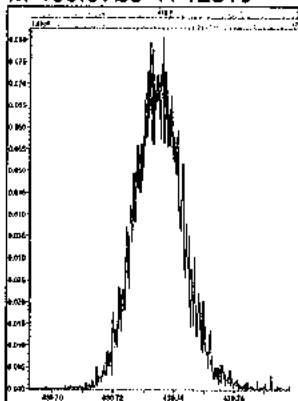
M 404.9760 R 12956



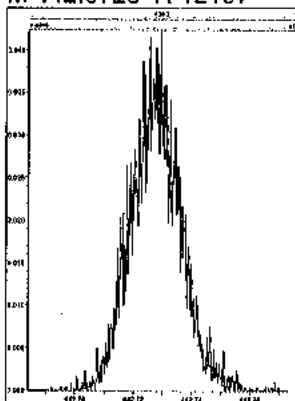
M 416.9760 R 14446



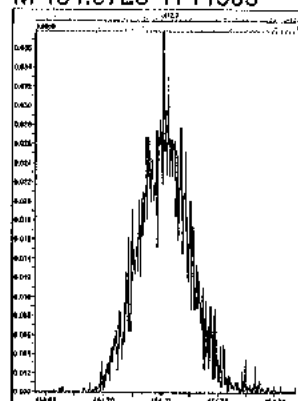
M 430.9728 R 12819



M 442.9728 R 12197



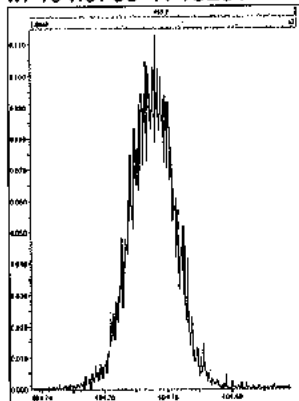
M 454.9728 R 11905



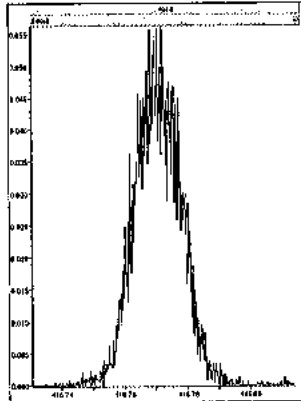
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, November 27, 2021 20:47:00 Eastern Standard Time

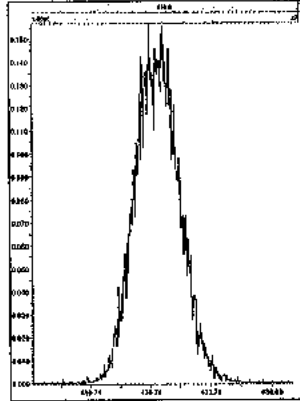
M 404.9760 R 13231



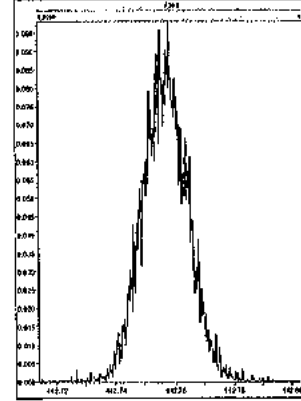
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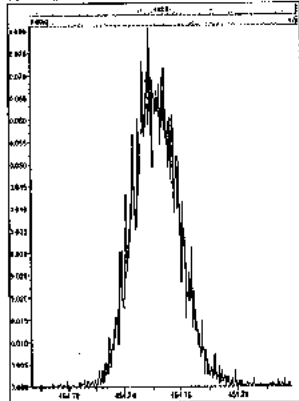
M 430.9728 R 12755



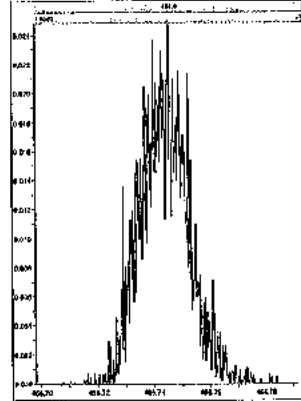
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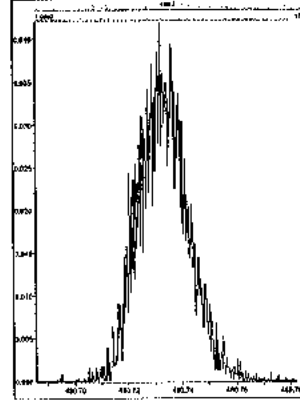
M 454.9728 R 13365



M 466.9728 R 13440



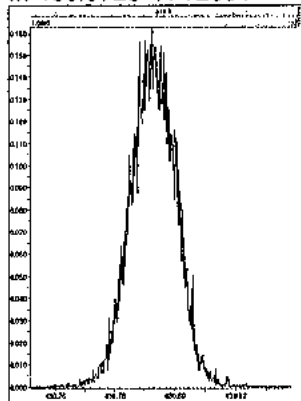
M 480.9696 R 12017



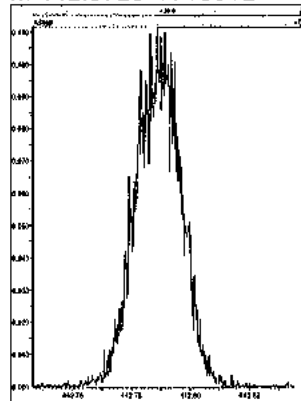
File: Experiment: 1613_ult3.exp Reference: plk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, November 27, 2021 20:47:40 Eastern Standard Time

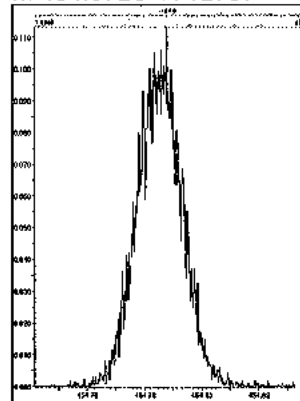
M 430.9728 R 12691



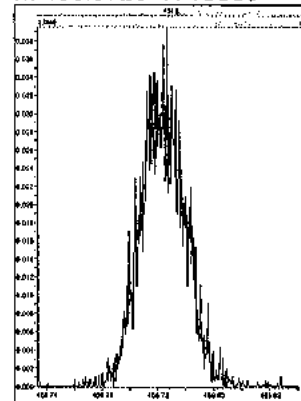
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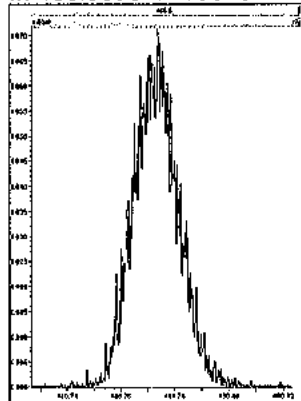
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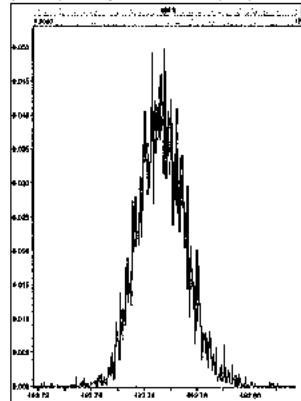
M 466.9728 R 13889



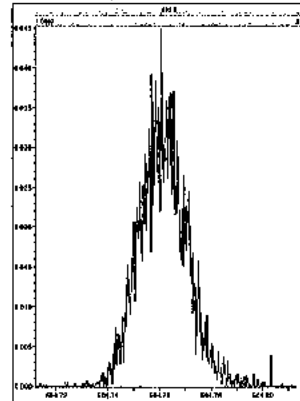
M 480.9696 R 13020



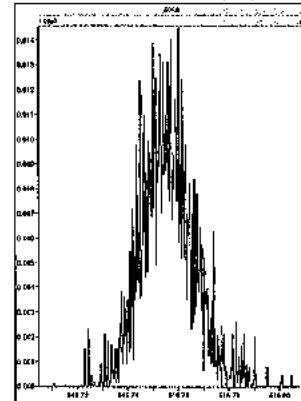
M 492.9696 R 12818



M 504.9696 R 12437



M 516.9697 R 12685





4.1 Continuing Calibration Data

**Bureau Veritas Canada (2019)
Inc.
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.bvlabs.com**

Method 1613 VER
ID : CS3_1613_01
FILE: M3211209A01
EPA Method 1613

	Conc (ng/mL)	Test	VER Lo	VER Hi
2,3,7,8-Cl4-Dibenzofuran	11	OK	8.4	12
1,2,3,7,8-Cl5-Dibenzofuran	54	OK	41	60
2,3,4,7,8-Cl5-Dibenzofuran	53	OK	41	61
1,2,3,4,7,8-Cl6-Dibenzofuran	55	OK	45	56
1,2,3,6,7,8-Cl6-Dibenzofuran	57	OK	44	57
2,3,4,6,7,8-Cl6-Dibenzofuran	54	OK	44	57
1,2,3,7,8,9-Cl6-Dibenzofuran	54	OK	45	56
1,2,3,4,6,7,8-Cl7-Dibenzofuran	52	OK	45	55
1,2,3,4,7,8,9-Cl7-Dibenzofuran	54	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	119	OK	63	159
2,3,7,8-Cl4-Dibenzo-p-dioxin	10	OK	7.8	12.9
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	52	OK	39	65
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	54	OK	39	64
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	52	OK	39	64
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	53	OK	41	61
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	53	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	105	OK	79	126

SURROGATE RECOVERY

2,3,7,8-T4CDF-13C12	99	OK	71	140
1,2,3,7,8-P5CDF-13C12	108	OK	76	130
2,3,4,7,8-P5CDF-13C12	109	OK	77	130
1,2,3,4,7,8-H6CDF-13C12	104	OK	76	131
1,2,3,6,7,8-H6CDF-13C12	117	OK	70	143
2,3,4,6,7,8-H6CDF-13C12	104	OK	73	137
1,2,3,7,8,9-H6CDF-13C12	102	OK	74	135
1,2,3,4,6,7,8-H7CDF-13C12	98	OK	78	129
1,2,3,4,7,8,9-H7CDF-13C12	90	OK	77	129
2,3,7,8-T4CDD-13C12	101	OK	82	121
1,2,3,7,8-P5CDD-13C12	104	OK	82	160
1,2,3,4,7,8-H6CDD-13C12	91	OK	85	117
1,2,3,6,7,8-H6CDD-13C12	114	OK	85	118
1,2,3,4,6,7,8-H7CDD-13C12	88	OK	72	138
OCDD-13C12	177	OK	96	415
2,3,7,8-T4CDD-37Cl4	9.504	OK	7.9	12.7

db5_win_perf/CS3
Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)

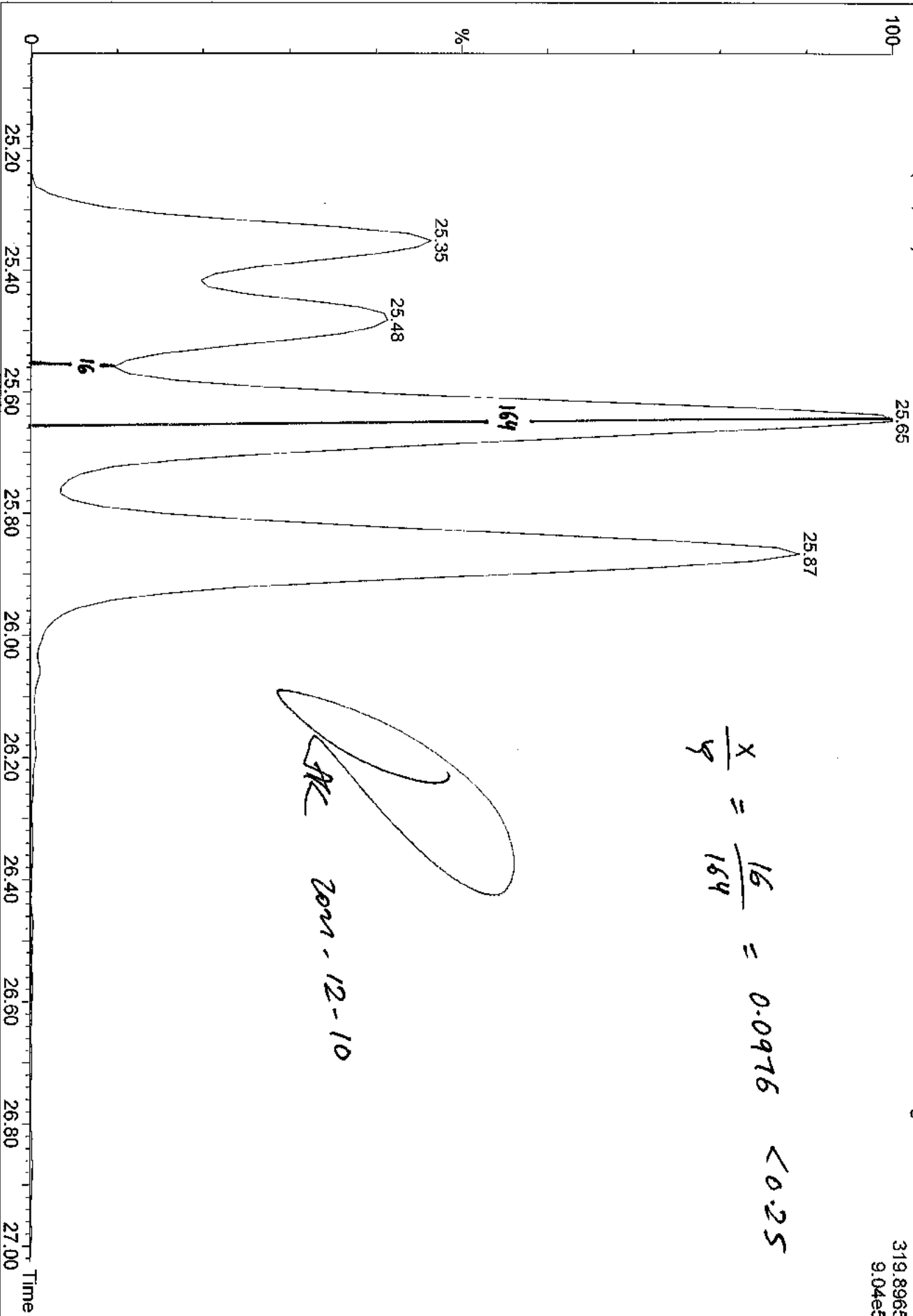
07:37:57

1: Voltage SIR 11 Channels EI+

319.8965

9.04e5

209



$$\frac{x}{y} = \frac{16}{164} = 0.0976 < 0.25$$

AK 2021-12-10

Quantity Sample Summary Report

Sample List: C:\NAS\SUNY\Default.Pro\SAFELEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\NAS\SUNY\Default.Pro\METHODS\FPA 1613B_M3211127A
 Last modified: Mon Nov 29 14:59:47 2021
 Job Code:

Printed: Fri Dec 10 07:12:38 2021

Sample Name: M3211209A01

Sample ID: Lot CS3WT1020

# Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RIflag	Response	Flags	Pg	StdDev	%Rec	IS#	RRF
1 2,3,7,8-TCDF	24.562	112559	146293	258852	0.77	YES	10.370	bd	10.673	7	107	18	1.037
2 1,2,3,7,8-PeCDF	31.920	637056	406459	1043516	1.57	YES	52.484	bd	53.585	7	107	19	1.050
3 2,3,4,7,8-PeCDF	33.582	697218	441301	1138519	1.58	YES	57.939	bd	53.167	6	106	20	1.159
4 1,2,3,4,7,8-HxCDF	38.076	663694	516959	1180653	1.28	YES	64.063	bd	55.252	11	111	21	1.281
5 1,2,3,6,7,8-HxCDF	38.210	805073	579472	1384545	1.33	YES	62.219	dd	55.840	14	114	22	1.244
6 2,3,4,6,7,8-HxCDF	38.881	659874	521588	1181462	1.26	YES	63.983	bd	54.381	9	109	23	1.280
7 1,2,3,7,8,9-HxCDF	39.706	580486	430928	1011414	1.35	YES	59.535	bd	54.255	9	109	24	1.191
8 1,2,3,4,6,7,8-HpCDF	41.426	529570	515065	1044635	1.03	YES	63.096	bd	52.216	4	104	25	1.262
9 1,2,3,4,7,8,9-HpCDF	42.726	415898	389211	805110	1.07	YES	63.525	bd	53.971	8	108	26	1.271
10 OCDF	45.422	646847	661339	1308187	0.98	YES	147.457	bd	118.927	19	119	32	1.475
11 2,3,7,8-TCDD	25.647	943326	219580	585119	0.81	YES	12.411	dd	10.001	0	100	27	1.241
12 1,2,3,7,8-PeCDD	34.313	365539	283735	663482	1.66	YES	58.290	bd	52.219	4	104	28	1.166
13 1,2,3,4,7,8-HxCDD	39.087	379747	283735	663482	1.34	YES	60.202	bd	54.165	8	108	29	1.204
14 1,2,3,6,7,8-HxCDD	39.139	445895	386570	832465	1.15	YES	57.675	bd	51.511	3	103	30	1.153
15 1,2,3,7,8,9-HxCDD	39.500	413520	333571	747091	1.24	YES	51.760	bd	47.335	-5	95	30	1.035
16 1,2,3,4,6,7,8-HpCDD	42.375	319440	305712	626152	1.04	YES	57.119	bd	52.656	5	105	31	1.142
17 OCDD	46.9254	511933	511933	981187	0.92	YES	110.538	bd	104.881	5	105	32	1.106
18 1,3C-2,3,7,8-TCDF	24.560	1101879	1394359	2496238	0.79	YES	213.147	bd	99.389	-1	99	33	2.131
19 1,3C-1,2,3,7,8-PeCDF	31.889	1244830	743407	1988237	1.67	YES	169.771	bd	107.629	8	108	33	1.698
20 1,3C-2,3,4,7,8-PeCDF	33.560	1206009	759012	1968021	1.59	YES	167.788	bd	109.355	9	109	33	1.678
21 1,3C-1,2,3,4,7,8-HxCDF	38.066	637758	1205190	1842948	0.53	YES	138.551	bd	103.957	4	104	34	1.386
22 1,3C-1,2,3,6,7,8-HxCDF	38.190	738519	1486741	2225260	0.50	YES	167.292	bd	116.573	17	117	34	1.673
23 1,3C-2,3,4,6,7,8-HxCDF	38.870	636655	1209855	1846510	0.53	YES	138.819	bd	103.721	4	104	34	1.388
24 1,3C-1,2,3,7,8,9-HxCDF	39.696	605167	1093692	1698858	0.55	YES	127.718	bd	102.090	2	102	34	1.277
25 1,3C-1,2,3,4,6,7,8-HpCDF	41.416	496326	1159291	165617	0.43	YES	124.467	bd	98.288	-2	98	34	1.245
26 1,3C-1,2,3,4,7,8,9-HpCDF	42.715	409756	857630	1267386	0.48	YES	95.281	bd	89.611	-10	90	34	0.953
27 1,3C-2,3,7,8-TCDD	25.625	612489	759169	1371658	0.81	YES	117.122	bd	101.051	1	101	33	1.171
28 1,3C-1,2,3,7,8-PeCDD	34.233	620482	383323	1003805	1.62	YES	85.712	bd	104.311	4	104	33	0.857
29 1,3C-1,2,3,4,7,8-HxCDD	39.046	627365	474735	1102100	1.32	YES	82.855	bd	90.965	-9	91	34	0.829
30 1,3C-1,2,3,6,7,8-HxCDD	39.149	815883	627502	1443385	1.30	YES	108.512	bd	114.013	14	114	34	1.085
31 1,3C-1,2,3,4,6,7,8-HpCDD	42.365	565135	531090	1096225	1.06	YES	82.413	bd	87.530	-12	88	34	0.824
32 1,3C-OCDD	45.294	842795	931529	1774324	0.90	YES	133.392	bd	176.775	-12	88	34	0.667
33 1,3C-1,2,3,4-TCDD	25.329	532664	638468	1171132	0.83	YES	1171131.875	dd	25.266	-75	25	0	11711.319
34 1,3C-1,2,3,7,8,9-HxCDD	39.489	592443	592443	1330161	1.25	YES	1330161.376	dd	25.022	-75	25	0	13301.614
35 C137-2,3,7,8-TCDD	25.647	140123	140123	280246	1.00	YES	23.930	bd	9.504	-5	95	33	2.393
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	34.253	-	-	18	-
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	46.606	-	-	27	-
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	234.756	-	-	0	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	204.387	-	-	28	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	273.320	-	-	0	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	198.948	-	-	30	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	106.311	-	-	0	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	113.991	-	-	31	-

Quantify Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

36: Totals Tetra-Purans

db5_win_perf/CS3

Lot CS3WT1020

AutoSpec Ultima - M536

09-Dec-2021

07:37:57

M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



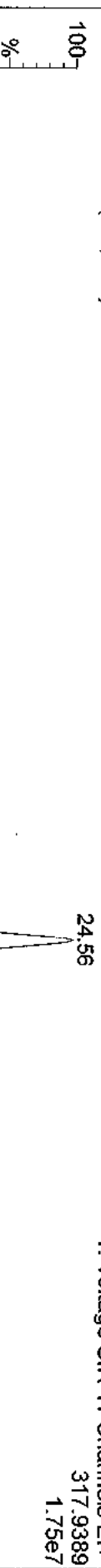
M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



Time

Quantify Sample Report

Sample List: C:\MASSIVE\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSIVE\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

37: Totals Tetra-Dioxins

AutoSpec Ultima - M536

db5_win_perf/CS3
 Lot CS3WT1020

09-Dec-2021
 07:37:57

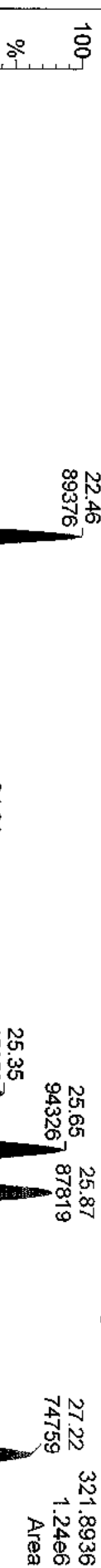
M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



Quantify Sample Report

Sample Name: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

35: C131-2,3,7,8-TOD

AutoSpec Ultima - M536

09-Dec-2021

db5_win_perf/CS3

07:37:57

Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M3211127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

38: Hexa DFE

AutoSpec Ultima - M536

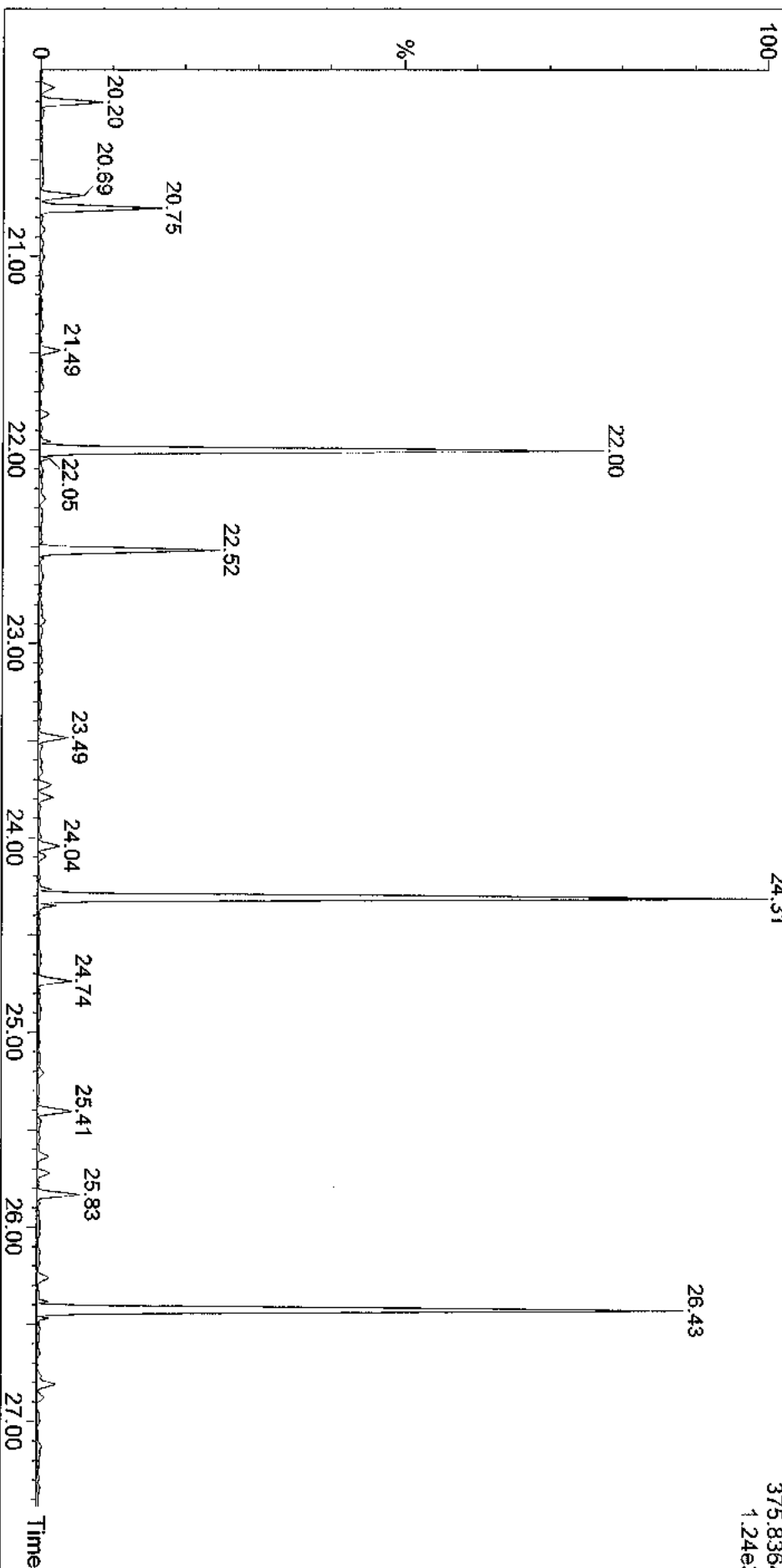
db5_win_perf/CS3
 Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

375.8364
 1.24e3

09-Dec-2021
 07:37:57



Quantify Sample Report

Sample list: C:\MSDCHEM\Default.prp\SMPLDDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.prp\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

39: Function 1 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

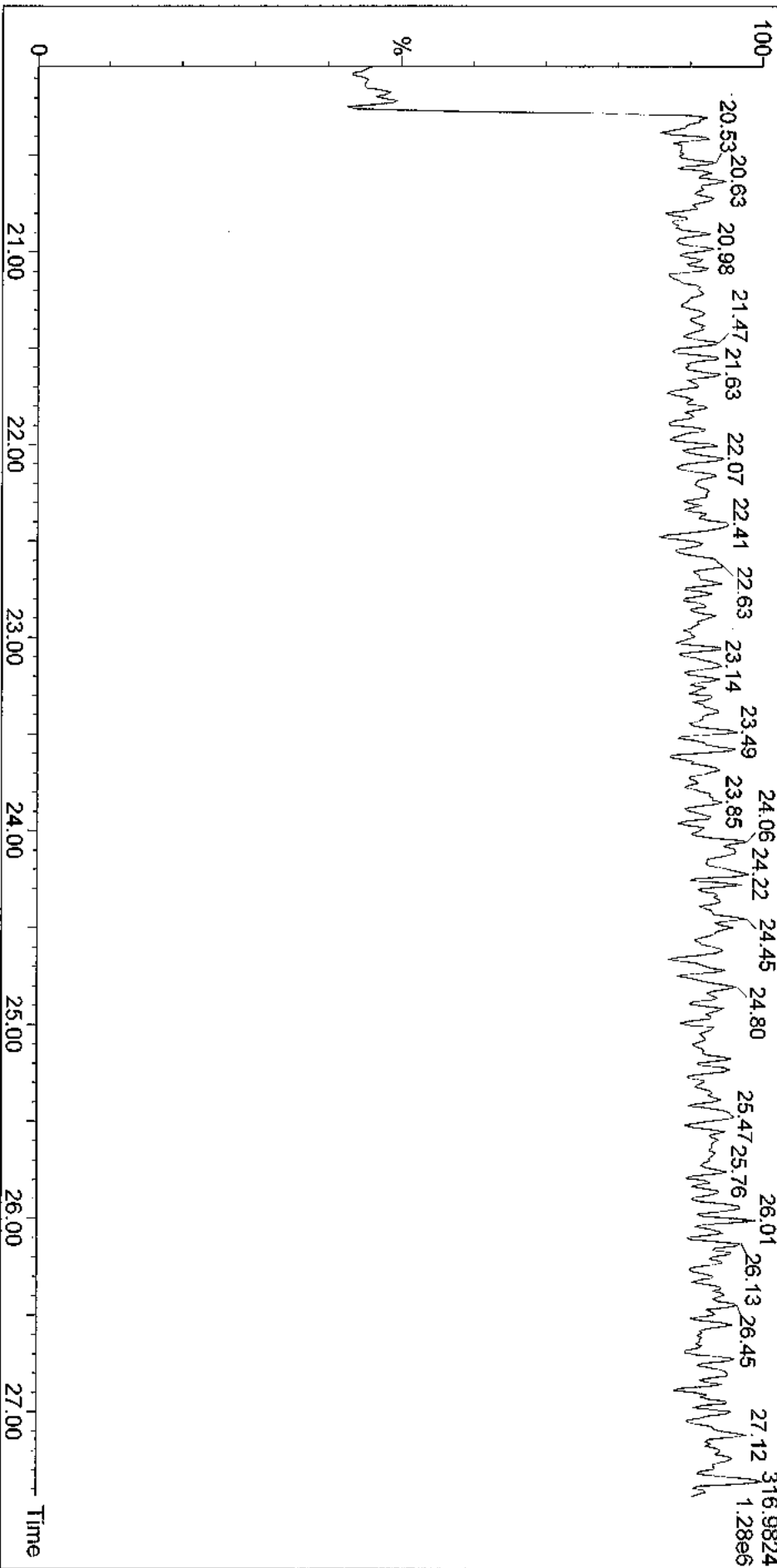
M3211209A01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

07:37:57

1: Voltage SIR 11 Channels EI+



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

40: Totals Penta-Purans

db5_win_perf/CS3

Lot CS3WT1020

AutoSpec Ultima - M536

09-Dec-2021

07:37:57

M3211209A01 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



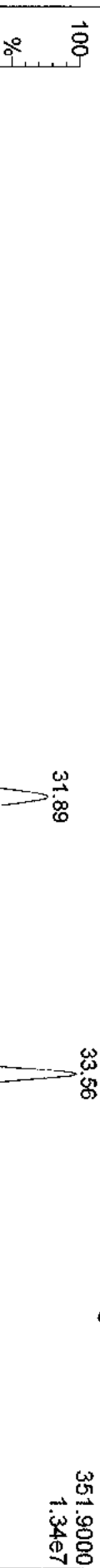
M3211209A01 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



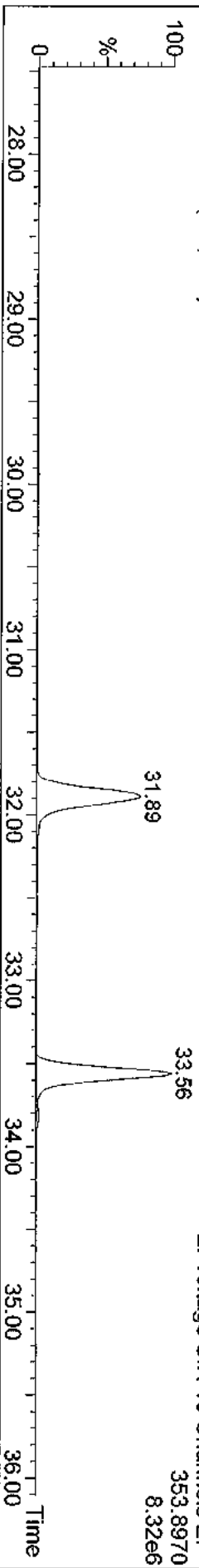
M3211209A01 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



M3211209A01 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



Quantify Sample Report

Sample List: C:\MASSIVE\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSIVE\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

41: Totals Penta-Dioxins

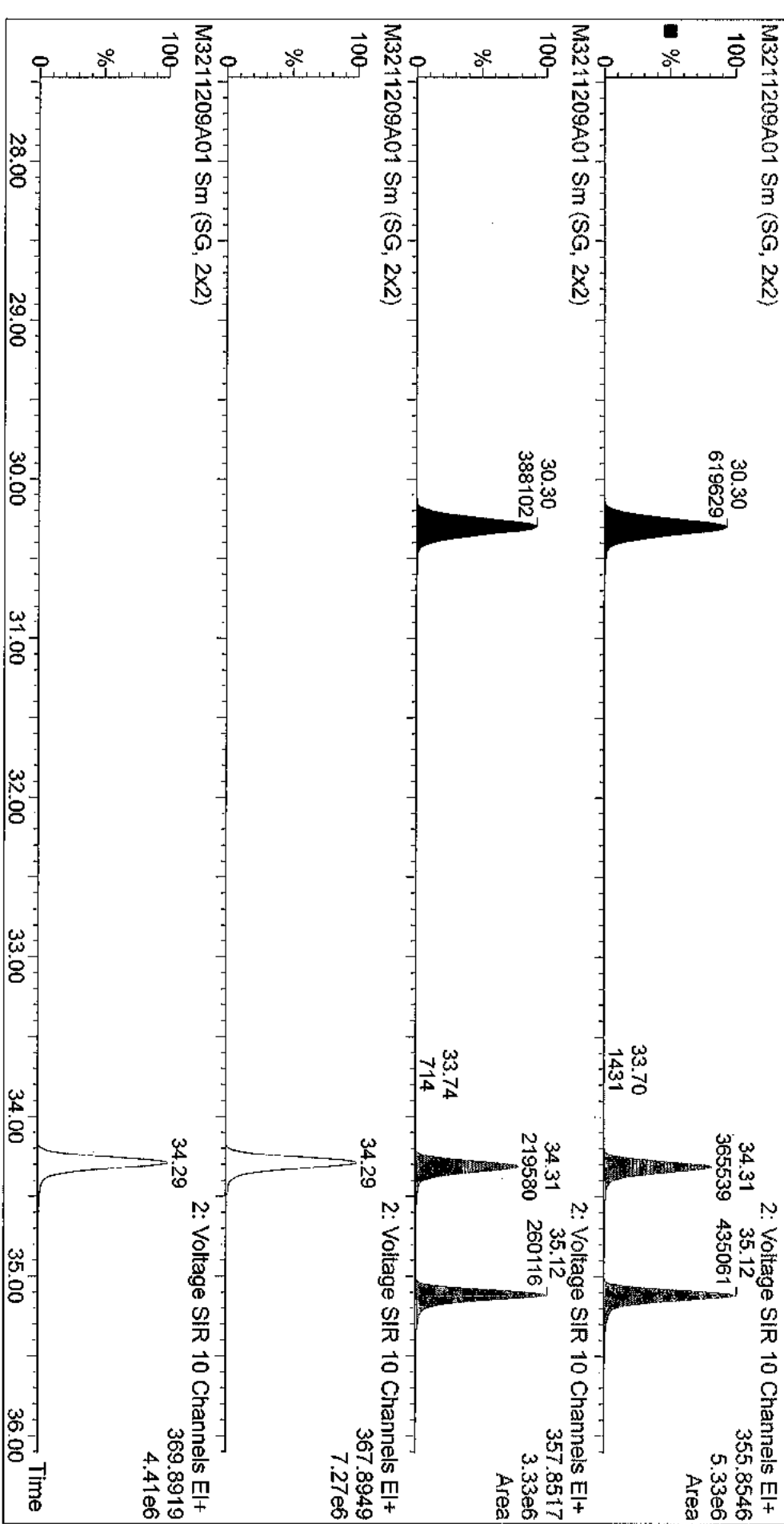
db5_win_perf/CS3

Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021 07:37:57



Quantify Sample Report

Sample list: C:\MSDCVX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCVX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

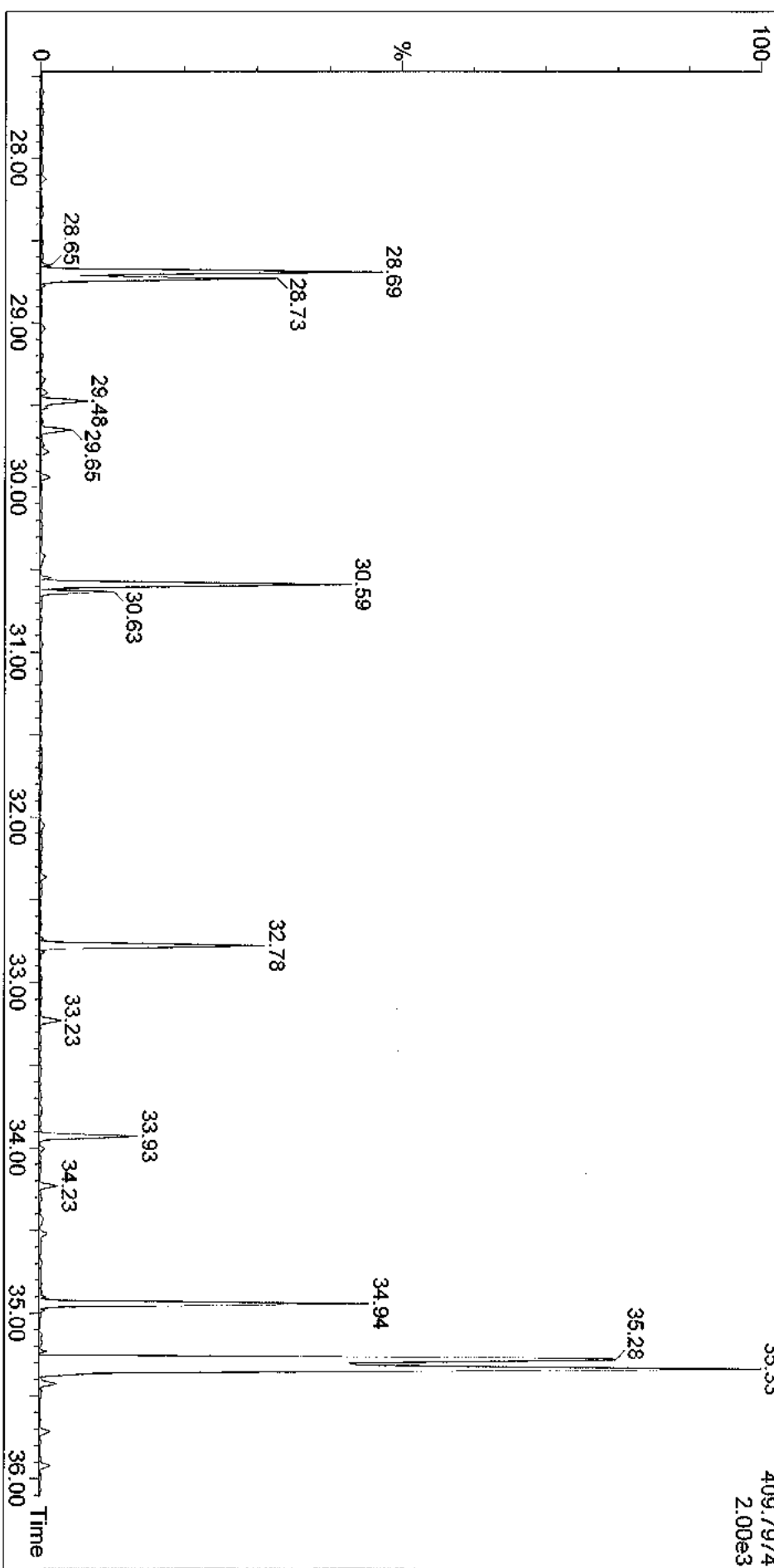
Name: M3211209A01
 Text: db5_wln_perf/CS3

42: Hepia DPE

AutoSpec Ultima - M536

db5_wln_perf/CS3
 Lot CS3WT1020
 M3211209A01 Sm (SG, 2x2)

09-Dec-2021 07:37:57
 2: Voltage SIR 10 Channels EI+
 409.7974
 2.00e3



Quantify Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Test modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

43: Function 2 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

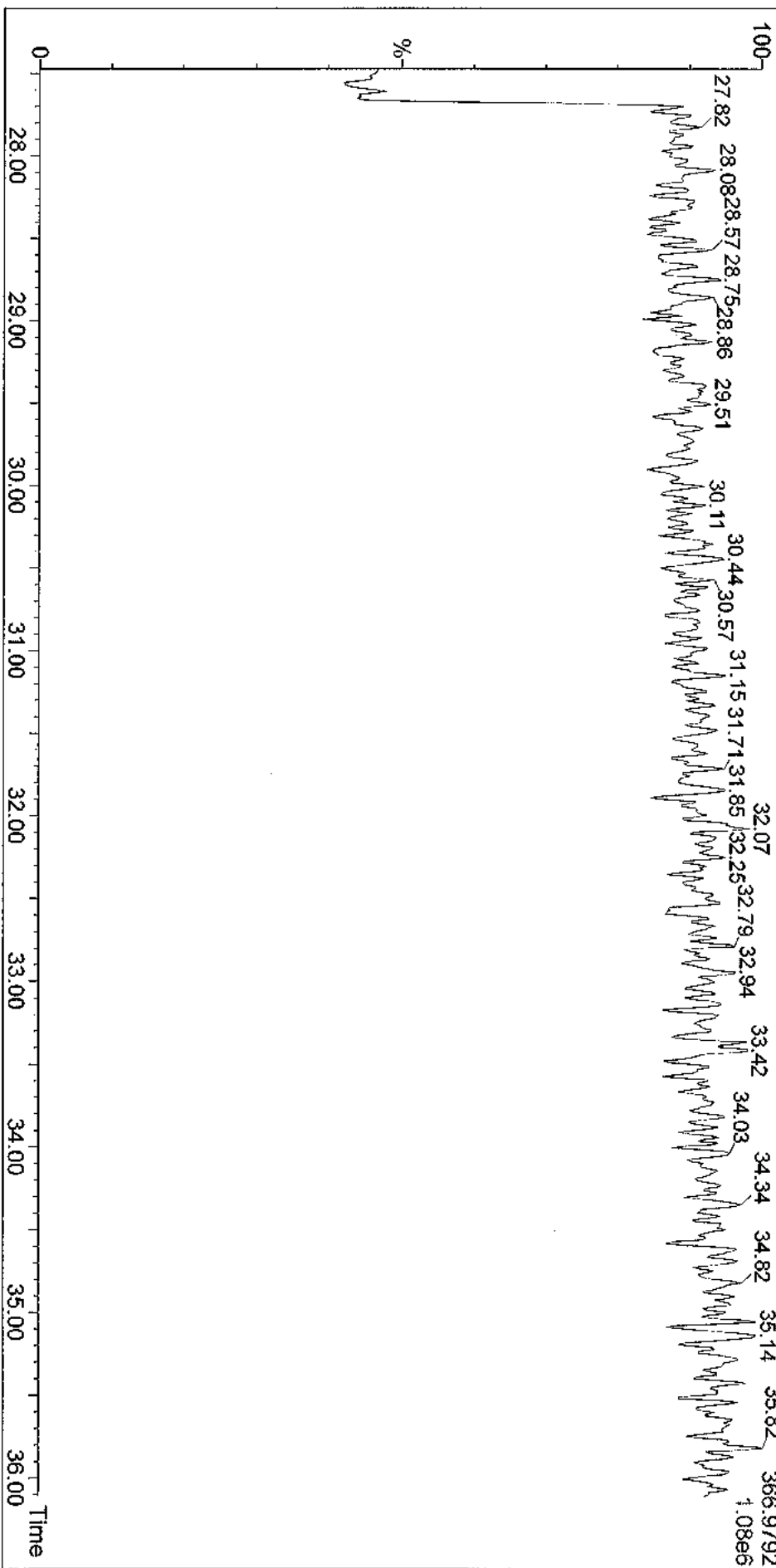
M3211209A01 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021
 07:37:57

2: Voltage SIR 10 Channels EI+

366.9792
 1.08e6



Quantify Sample Report

Sample List: C:\MASSLVMX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLVMX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

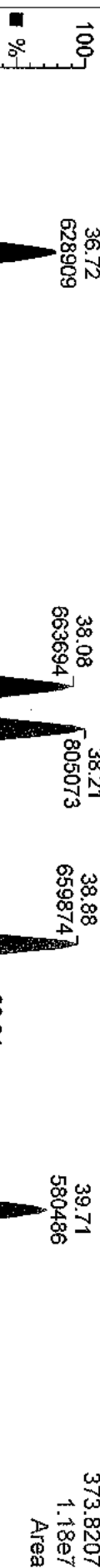
44: Totals Hexa-Furans

AutoSpec Ultima - M536

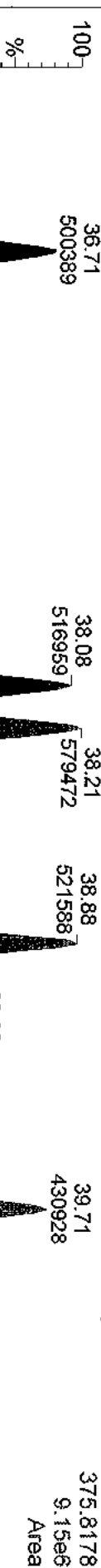
09-Dec-2021 07:37:57

db5_win_perf/CS3
 Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)



M3211209A01 Sm (SG, 2x2)



M3211209A01 Sm (SG, 2x2)



M3211209A01 Sm (SG, 2x2)



3: Voltage SIR 10 Channels EI+
 3: Voltage SIR 10 Channels EI+
 3: Voltage SIR 10 Channels EI+
 3: Voltage SIR 10 Channels EI+

Quantify Sample Report

Sample List: C:\MASSLIVE\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLIVE\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

45: Totale Hexa-Dioxins

Autospec Ultima - M536

09-Dec-2021 07:37:57

db5_win_perf/CS3
 Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)



Quantity Sample Report

Sample list: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

46: Octa DPE

db5_win_perf/CS3

Lot CS3WT1020

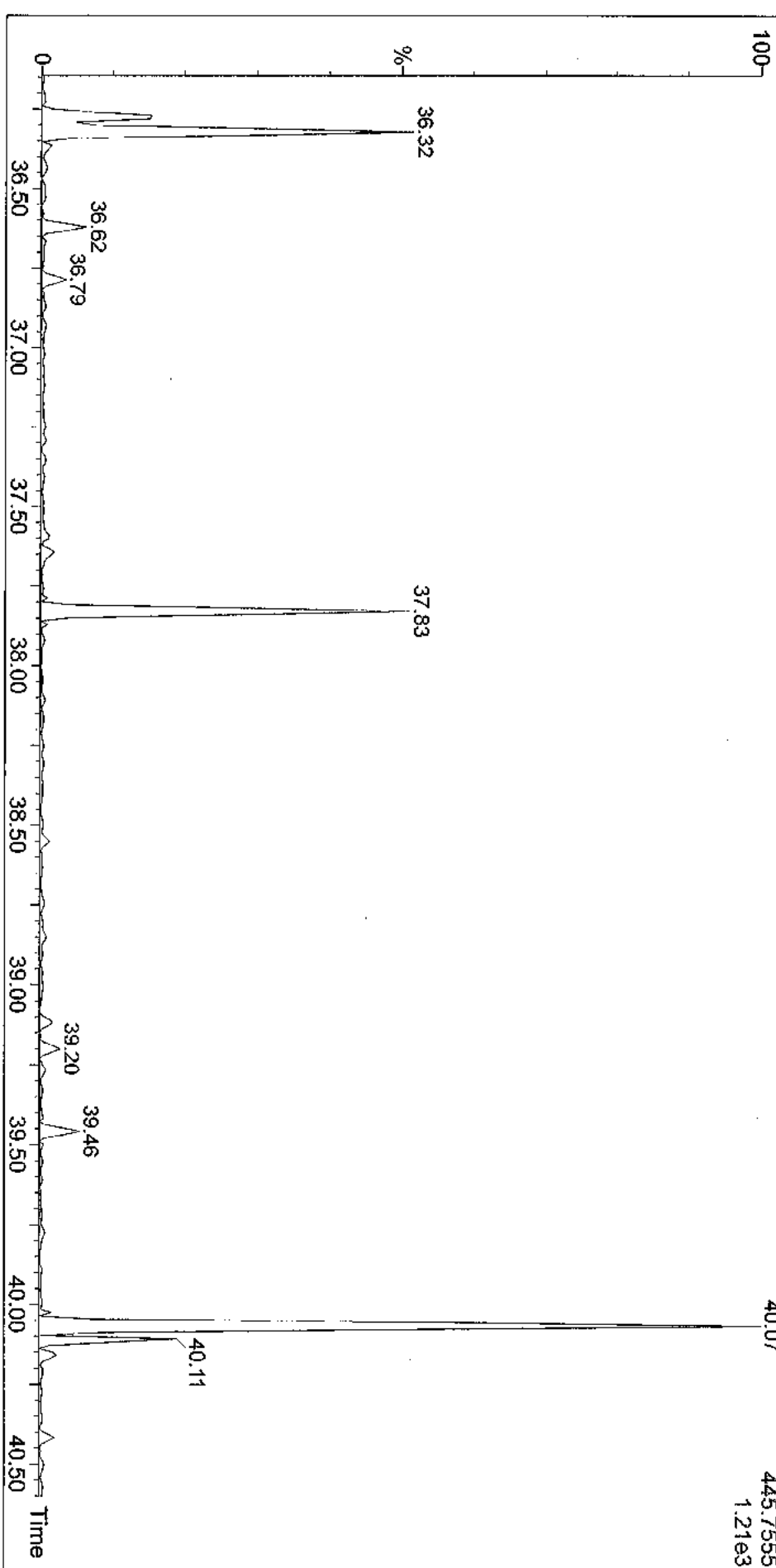
M3211209A01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

07:37:57

3: Voltage SIR 10 Channels EI+
 40.07
 445.7555
 1.21e3



Quantify Sample Report

Sample list: C:\MASSLYNX\Default.Pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.Pro\METHODS\M3211127A_BC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_wln_perf/CS3

47: Function 3 Lockmass

db5_wln_perf/CS3

Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

07:37:57

3: Voltage SIR 10 Channels EI+

36.34 36.76 37.05 37.57 37.73 38.16 38.60 38.88 39.26 39.43 39.74 40.01 40.51 380.9760 7.99e6

%

36.50 37.00 37.50 38.00 38.50 39.00 39.50 40.00 40.50 Time

Quantify Sample Report

Sample List: C:\MASSLUX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLUX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

46: Totals Hepta-Furans

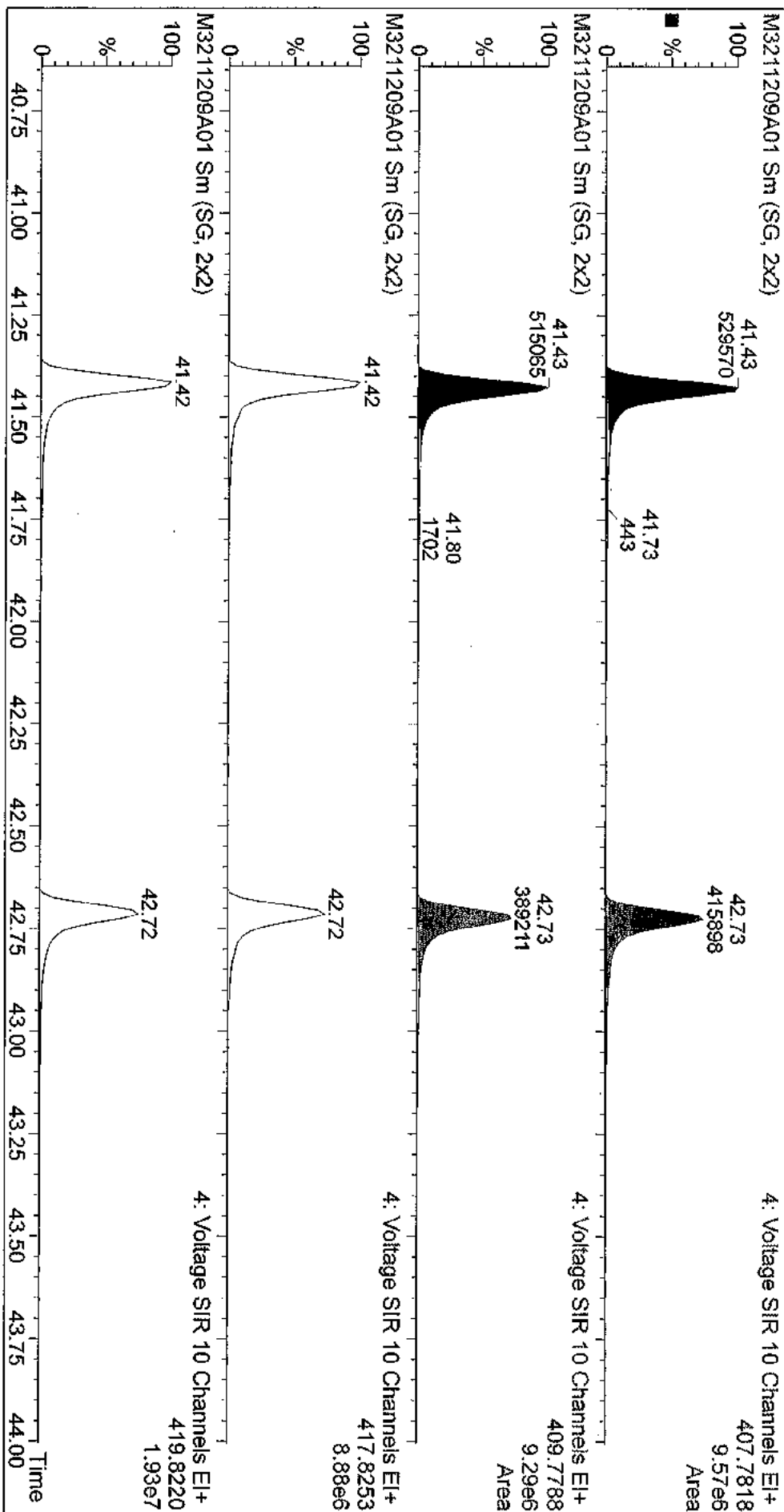
AutoSpec Ultima - M536

09-Dec-2021

db5_win_perf/CS3

07:37:57

Lot CS3WT1020



Quantify Sample Report

Sample Use: C:\MASSLUX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLUX\Default.pro\METHODS\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

49: Totals Hepta-Dioxins

AutoSpec Ultima - M536

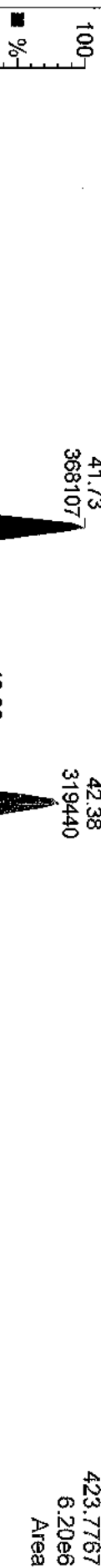
09-Dec-2021

db5_win_perf/CS3
 Lot CS3WT1020

07:37:57

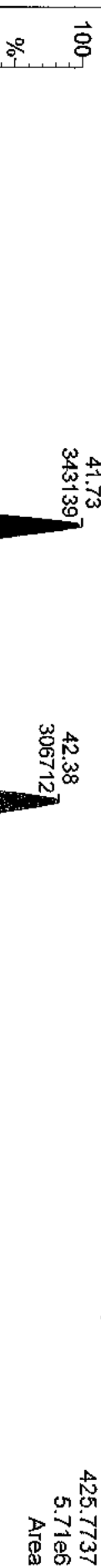
M3211209A01 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



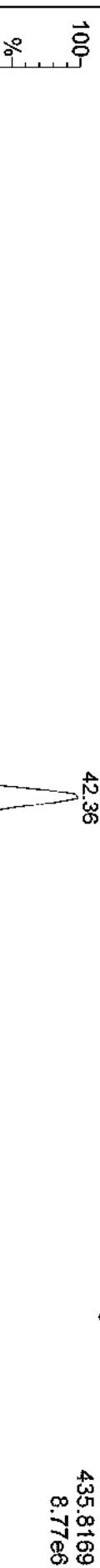
M3211209A01 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



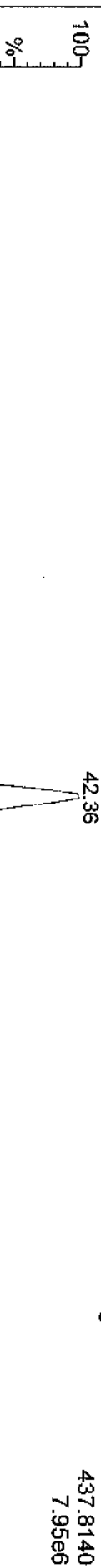
M3211209A01 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209A01 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



Time

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMFDEB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

50: Nona DPE

db5_win_perf/CS3

Lot CS3WT1020

M3211209A01 Sm (SG, 2X2)

40.83

AutoSpec Ultima - M536

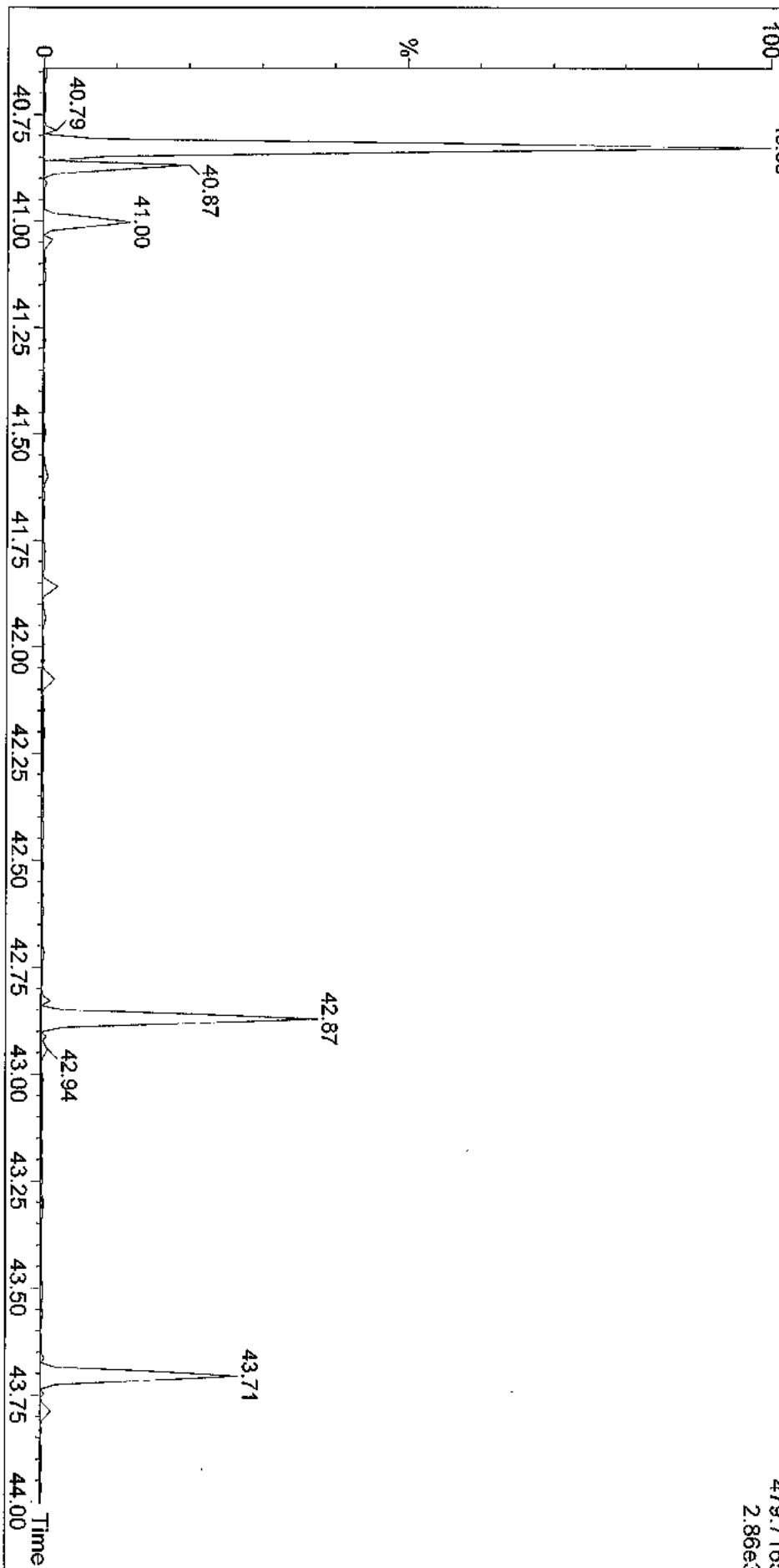
09-Dec-2021

07:37:57

4: Voltage SIR 10 Channels EI+

479.7165

2.86e3



Quantify Sample Report

Sample List: C:\MSSLYX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSLYX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_win_perf/CS3

SI: Function 4 Lockmass

db5_win_perf/CS3

AutoSpec Ultima - M536

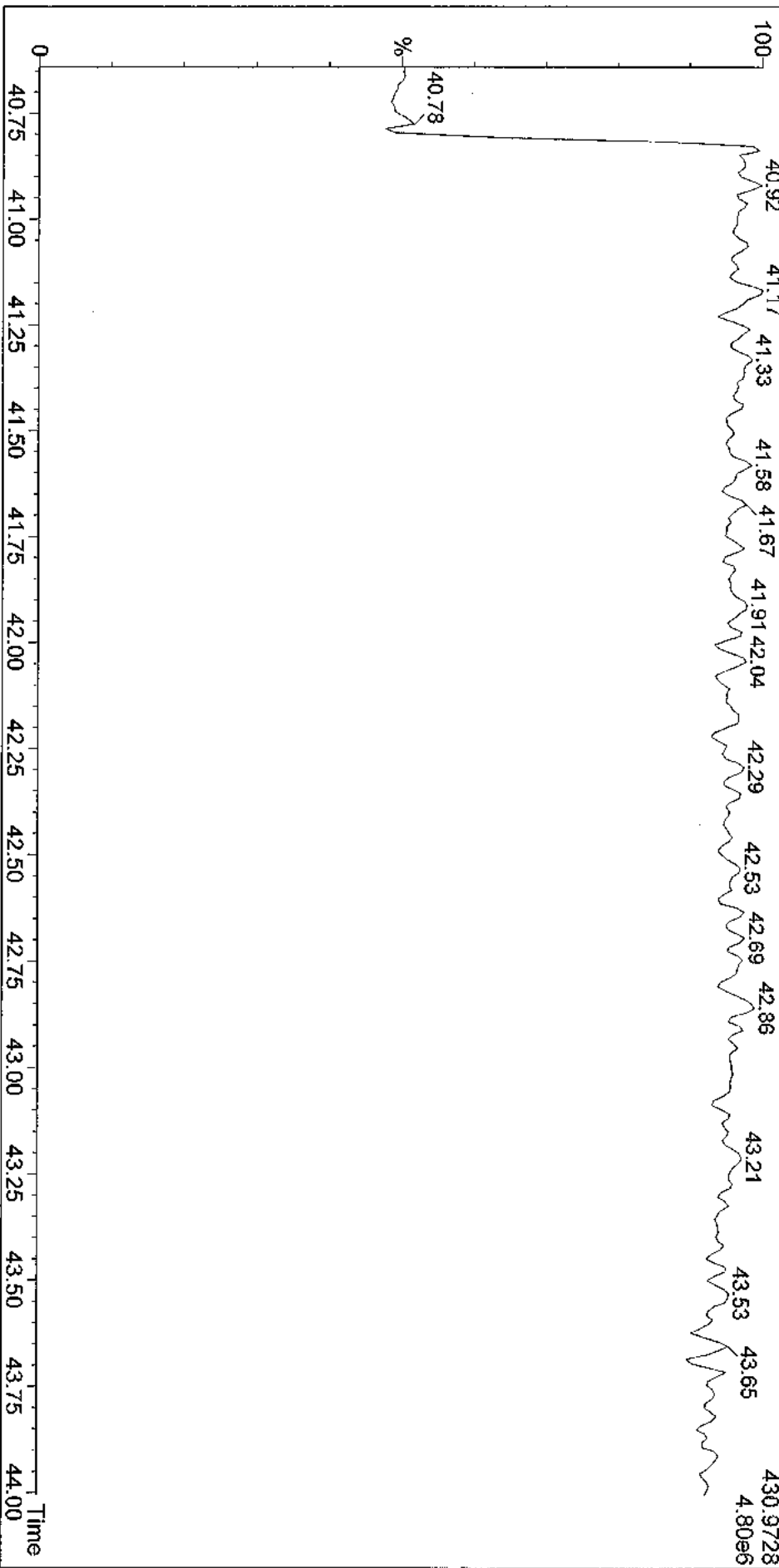
09-Dec-2021

Lot CS3WT1020

07:37:57

M3211209A01 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



Quantify Sample Report

Sample List: C:\MASSLTX\Default.pro\SMPLMDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_wln_perf/CS3

10: OCDF

db5_wln_perf/CS3

Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

07:37:57

5: Voltage SIR 8 Channels EI+

441.7428

8.89e6

Area

%

45.42
646847

M3211209A01 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

443.7398

9.59e6

Area

%

45.42
661339

M3211209A01 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

469.7780

1.08e7

Area

%

45.29
842795

M3211209A01 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

471.7750

1.17e7

Area

%

45.29
931529

44.50 45.00 45.50 46.00 46.50 47.00 47.50

Time

Quantity Sample Report

Sample List: C:\MASSVIEW\Default-pro\SMFLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_wln_perf/CS3

17: OCDD

db5_wln_perf/CS3

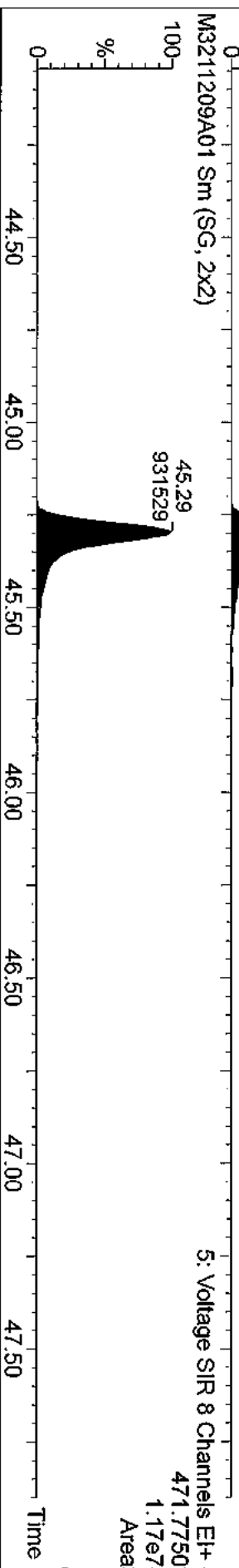
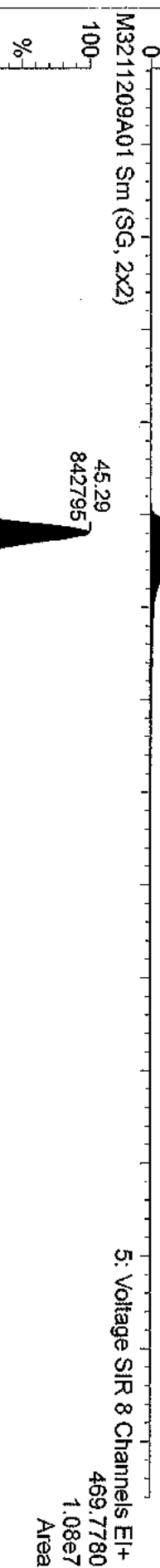
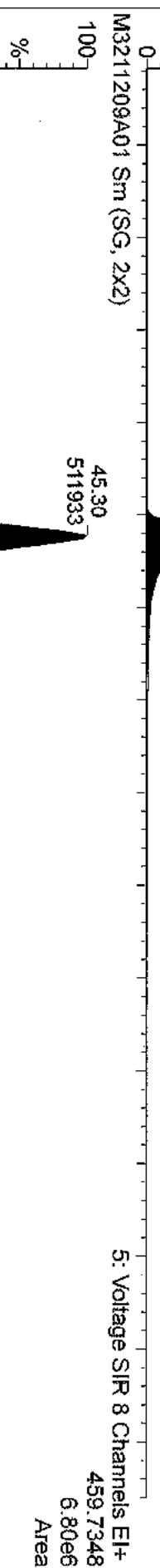
Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

07:37:57



Quantify Sample Report

Sample List: C:\MASSIVE\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSIVE\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A01
 Text: db5_wln_perf/CS3

53: Function 5 Lockmass

db5_wln_perf/CS3
 Lot CS3WT1020

M3211209A01 Sm (SG, 2x2)

AutoSpec Ultima - M536

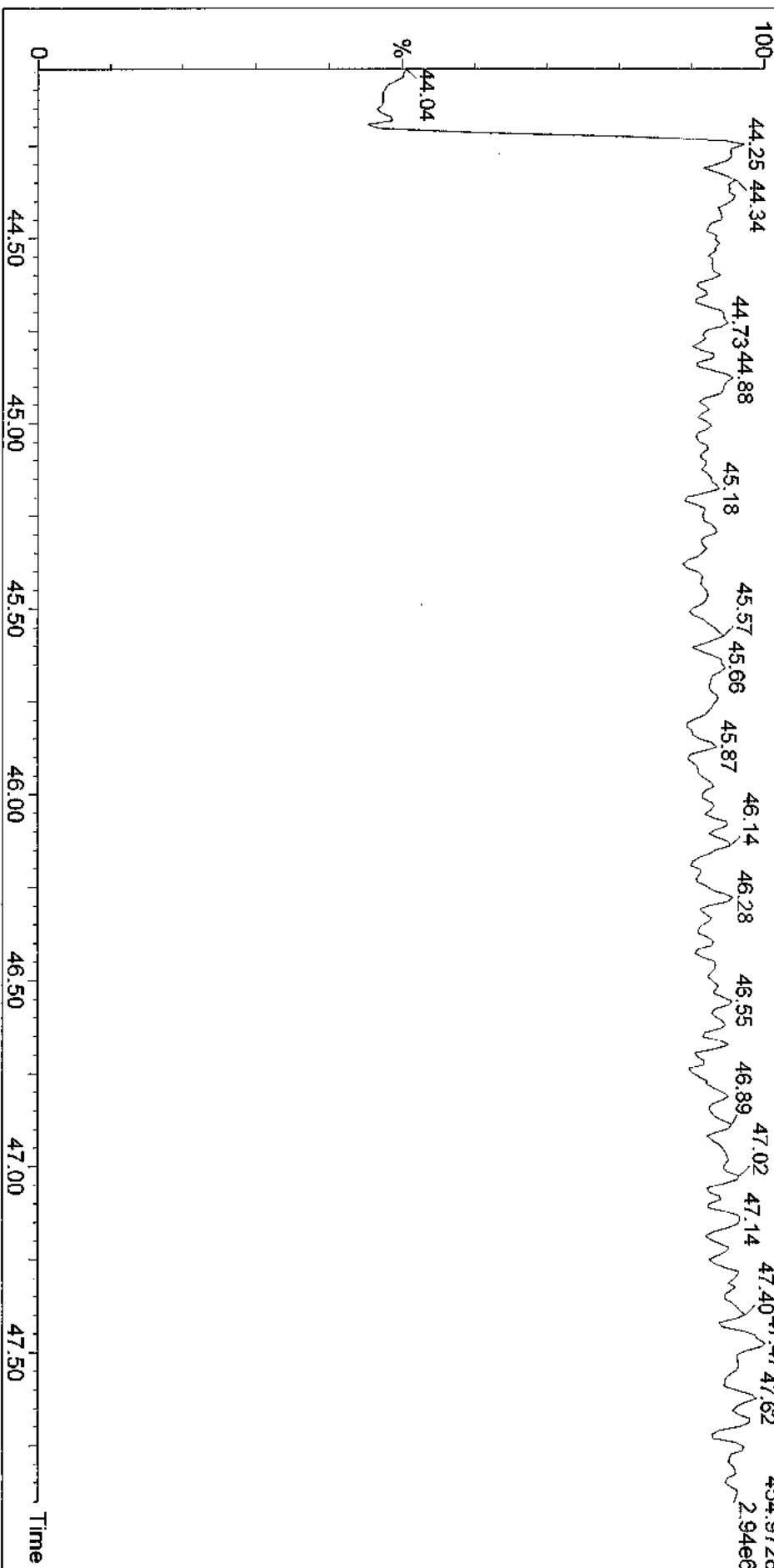
09-Dec-2021

07:37:57

5: Voltage SIR 8 Channels EI+

454.9728

2.9466



Method 1613 VER
ID: CS3_1613_01
FILE: M3211209A15
EPA Method 1613

	Conc (ng/mL)	Test	VER Lo	VER HI
2,3,7,8-Cl4-Dibenzofuran	11	OK	8.4	12
1,2,3,7,8-Cl5-Dibenzofuran	52	OK	41	60
2,3,4,7,8-Cl5-Dibenzofuran	52	OK	41	61
1,2,3,4,7,8-Cl6-Dibenzofuran	53	OK	45	56
1,2,3,6,7,8-Cl6-Dibenzofuran	53	OK	44	57
2,3,4,6,7,8-Cl6-Dibenzofuran	51	OK	44	57
1,2,3,7,8,9-Cl6-Dibenzofuran	51	OK	45	56
1,2,3,4,6,7,8-Cl7-Dibenzofuran	53	OK	45	55
1,2,3,4,7,8,9-Cl7-Dibenzofuran	54	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	114	OK	63	159
2,3,7,8-Cl4-Dibenzo-p-dioxin	10	OK	7.8	12.9
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	53	OK	39	65
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	52	OK	39	64
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	53	OK	39	64
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	50	OK	41	61
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	52	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	109	OK	79	126

SURROGATE RECOVERY

2,3,7,8-T4CDF-13C12	93	OK	71	140
1,2,3,7,8-P5CDF-13C12	104	OK	76	130
2,3,4,7,8-P5CDF-13C12	104	OK	77	130
1,2,3,4,7,8-H6CDF-13C12	95	OK	76	131
1,2,3,6,7,8-H6CDF-13C12	101	OK	70	143
2,3,4,6,7,8-H6CDF-13C12	104	OK	73	137
1,2,3,7,8,9-H6CDF-13C12	94	OK	74	135
1,2,3,4,6,7,8-H7CDF-13C12	87	OK	78	129
1,2,3,4,7,8,9-H7CDF-13C12	87	OK	77	129
2,3,7,8-T4CDD-13C12	100	OK	82	121
1,2,3,7,8-P5CDD-13C12	107	OK	62	160
1,2,3,4,7,8-H6CDD-13C12	102	OK	85	117
1,2,3,6,7,8-H6CDD-13C12	107	OK	85	118
1,2,3,4,6,7,8-H7CDD-13C12	82	OK	72	138
OCDD-13C12	191	OK	96	415
2,3,7,8-T4CDD-37Cl4	9.368	OK	7.9	12.7

Quantity Sample Summary Report

Sample List: C:\MASSLUX\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLUX\Default.pro\METHOD\EPA 1613B_M3211127A
 Last modified: Mon Nov 29 14:59:47 2021
 Job Code:

Printed: Fri Dec 10 07:12:45 2021

Sample Name: M3211209A15															Sample ID: Lot CS3WT1020														
#	Name	RT	Area	Sec.Area	Abs.Resp	Ion Ratio	RFtag	Response	Flags	Pf	%Dev	%Rec	IS#	RRR															
1	2,3,7,8-TCDF	24.593	123002	164434	287436	0.75	YES	10.217	db	10.515	5	105	18	1.022															
2	1,2,3,7,8-PeCDF	31.931	723032	456592	1179624	1.58	YES	50.979	db	52.048	4	104	19	1.020															
3	2,3,4,7,8-PeCDF	33.591	785085	494540	1279585	1.59	YES	56.816	db	52.137	4	104	20	1.136															
4	1,2,3,4,7,8-HxCDF	38.086	747705	589982	1337687	1.27	YES	61.475	db	53.019	5	106	21	1.229															
5	1,2,3,6,7,8-HxCDF	38.220	826294	621137	1447430	1.33	YES	58.110	db	53.085	6	106	22	1.162															
6	2,3,4,6,7,8-HxCDF	38.891	794533	641836	1436369	1.24	YES	60.541	db	51.455	3	103	23	1.211															
7	1,2,3,7,8,9-HxCDF	39.727	624470	496214	1120684	1.26	YES	55.918	db	50.959	2	102	24	1.118															
8	1,2,3,4,6,7,8-HpCDF	41.446	538852	606707	1205559	0.99	YES	64.135	db	53.076	6	106	25	1.283															
9	1,2,3,4,7,8,9-HpCDF	42.736	527495	482266	1009762	1.09	YES	63.659	db	54.085	8	108	26	1.273															
10	OCDF	45.443	852075	897789	1749865	0.95	YES	141.957	db	114.490	14	114	32	1.420															
11	2,3,7,8-TCDD	25.647	87560	110195	197755	0.80	YES	12.062	db	9.720	-3	97	27	1.206															
12	1,2,3,7,8-PeCDD	34.324	449454	279045	728489	1.61	YES	58.726	db	52.609	5	105	28	1.175															
13	1,2,3,4,7,8-HxCDD	39.076	551564	400563	915728	1.29	YES	57.727	db	51.938	4	104	29	1.185															
14	1,2,3,6,7,8-HxCDD	39.180	594849	437281	1032131	1.36	YES	59.167	db	52.844	6	106	30	1.183															
15	1,2,3,7,8,9-HxCDD	39.520	536115	396063	932178	1.35	YES	53.437	db	48.869	-2	98	30	1.059															
16	1,2,3,4,6,7,8-HpCDD	42.385	383504	362981	746486	1.06	YES	56.730	db	52.297	5	105	31	1.135															
17	OCDD	45.326	677081	737063	1414144	0.92	YES	114.721	db	108.791	9	109	32	1.147															
18	13C-2,3,7,8-TCDF	24.571	1249278	1564078	2813356	0.80	YES	139.761	db	93.147	-7	93	33	1.998															
19	13C-1,2,3,7,8-PeCDF	31.899	1446170	867767	2213937	1.67	YES	164.300	db	104.160	4	104	33	1.643															
20	13C-2,3,4,7,8-PeCDF	33.571	1389180	862990	2252170	1.61	YES	159.914	db	104.223	4	104	33	1.599															
21	13C-1,2,3,4,7,8-HxCDF	38.076	756244	1419750	2175994	0.53	YES	127.091	db	95.359	-5	95	34	1.271															
22	13C-1,2,3,6,7,8-HxCDF	38.210	860243	1630614	2490858	0.53	YES	145.481	db	101.374	1	101	34	1.455															
23	13C-2,3,4,6,7,8-HxCDF	38.881	823931	1548616	2372547	0.53	YES	138.571	db	103.536	4	104	34	1.386															
24	13C-1,2,3,7,8,9-HxCDF	39.706	677893	1326247	2004140	0.51	YES	117.054	db	93.566	-6	94	34	1.171															
25	13C-1,2,3,4,6,7,8-HpCDF	41.436	567348	1312374	1879722	0.43	YES	109.787	db	86.695	-13	87	34	1.038															
26	13C-1,2,3,4,7,8,9-HpCDF	42.726	472417	1113799	1586216	0.42	YES	92.645	db	87.132	-13	87	34	0.966															
27	13C-2,3,7,8-TCDD	25.625	734875	904625	1639501	0.81	YES	116.412	db	100.438	0	100	33	1.164															
28	13C-1,2,3,7,8-PeCDD	34.303	764926	475589	1240515	1.61	YES	88.082	db	107.216	7	107	33	0.881															
29	13C-1,2,3,4,7,8-HxCDD	39.066	892053	694261	1586314	1.28	YES	92.651	db	101.720	2	102	34	0.927															
30	13C-1,2,3,6,7,8-HxCDD	39.169	972186	772244	1744430	1.26	YES	101.885	db	107.050	7	107	34	1.019															
31	13C-1,2,3,4,6,7,8-HpCDD	42.375	675591	640262	1315884	1.05	YES	76.854	db	81.626	-18	82	34	0.768															
32	13C-OCDD	45.315	1169723	1295630	2465353	0.90	YES	143.992	db	190.823	-5	95	34	0.720															
33	13C-1,2,3,4-TCDD	25.340	638968	769393	1408360	0.83	YES	140.360	db	30.384	-70	30	0	14082.604															
34	13C-1,2,3,7,8,9-HxCDD	39.500	983149	728899	1712148	1.35	YES	171.214	db	32.208	-68	32	0	17121.478															
35	OCDF	25.647	166095	166095	332189	1.00	YES	23.587	db	9.368	-6	94	33	2.358															
36	Totals Tetra-Furans	-	0	0	0	-	-	-	-	33.704	-	-	18	-															
37	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	45.735	-	-	27	-															
38	Totals Penta-Furans	-	0	0	0	-	-	-	-	229.213	-	-	0	-															
39	Totals Penta-Dioxins	-	0	0	0	-	-	-	-	200.265	-	-	28	-															
40	Totals Hexa-Furans	-	0	0	0	-	-	-	-	260.131	-	-	0	-															
41	Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	199.717	-	-	30	-															
42	Totals Hepta-Furans	-	0	0	0	-	-	-	-	107.595	-	-	0	-															
43	Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	109.930	-	-	31	-															

Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

36: Totals Tetra-Purans

AutoSpec Ultima - M536

09-Dec-2021 19:42:49

db5_win_perf/CS3
 Lot CS3WT1020

1: Voltage SIR 11 Channels EI+
 303.9016
 27.19 2.21e6
 119585 Area

M3211209A15 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+
 305.8987
 27.18 2.84e6
 151348 Area

155651
 21.13

24.59
 123002

23.32 23.63 24.04
 709 1403 1208

M3211209A15 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+
 305.8987
 27.18 2.84e6
 151348 Area

199743
 21.11

24.59
 164434

23.31 23.62 24.03
 1053 1630 1520

M3211209A15 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+
 315.9419
 1.50e7

24.57

M3211209A15 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+
 317.9389
 1.90e7

24.57

Time

Quantity Sample Report

Sample List: C:\MSSTN\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTN\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

37: Totals Tetra-Dioxins

db5_win_perf/CS3

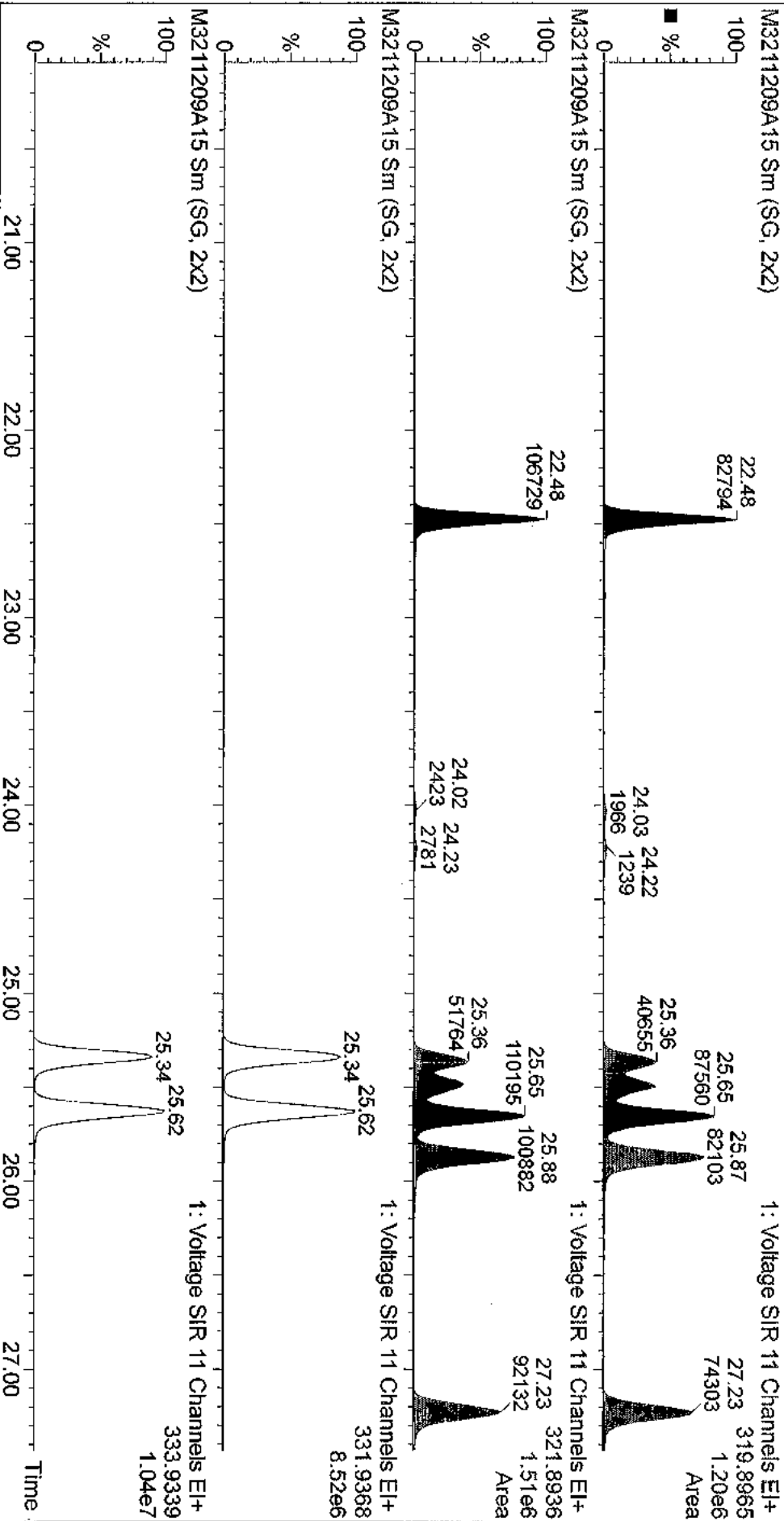
Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

19:42:49



Quantity Sample Report

Sample list: C:\MASSLYNX\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_wln_perf/CS3

35: C137-2,3,7,8-TCDD

db5_wln_perf/CS3

Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

19:42:49

1: Voltage SIR 11 Channels EI+

327.8850

1.91e6

Area

25.65
166095

M3211209A15 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

327.8850

1.91e6

Area

25.65
166095

M3211209A15 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

331.9368

8.52e6

Area

25.34
638968

M3211209A15 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

333.9339

1.04e7

Area

25.34
769393

Time

Quantity Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
Last modified: Fri Dec 10 07:11:23 2021
Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
Text: db5_win_perf/CS3

38: Hexa DPE

AutoSpec Ultima - M536

09-Dec-2021

db5_win_perf/CS3
Lot CS3WT1020

M3211209A15 Sm (SG, 2X2)

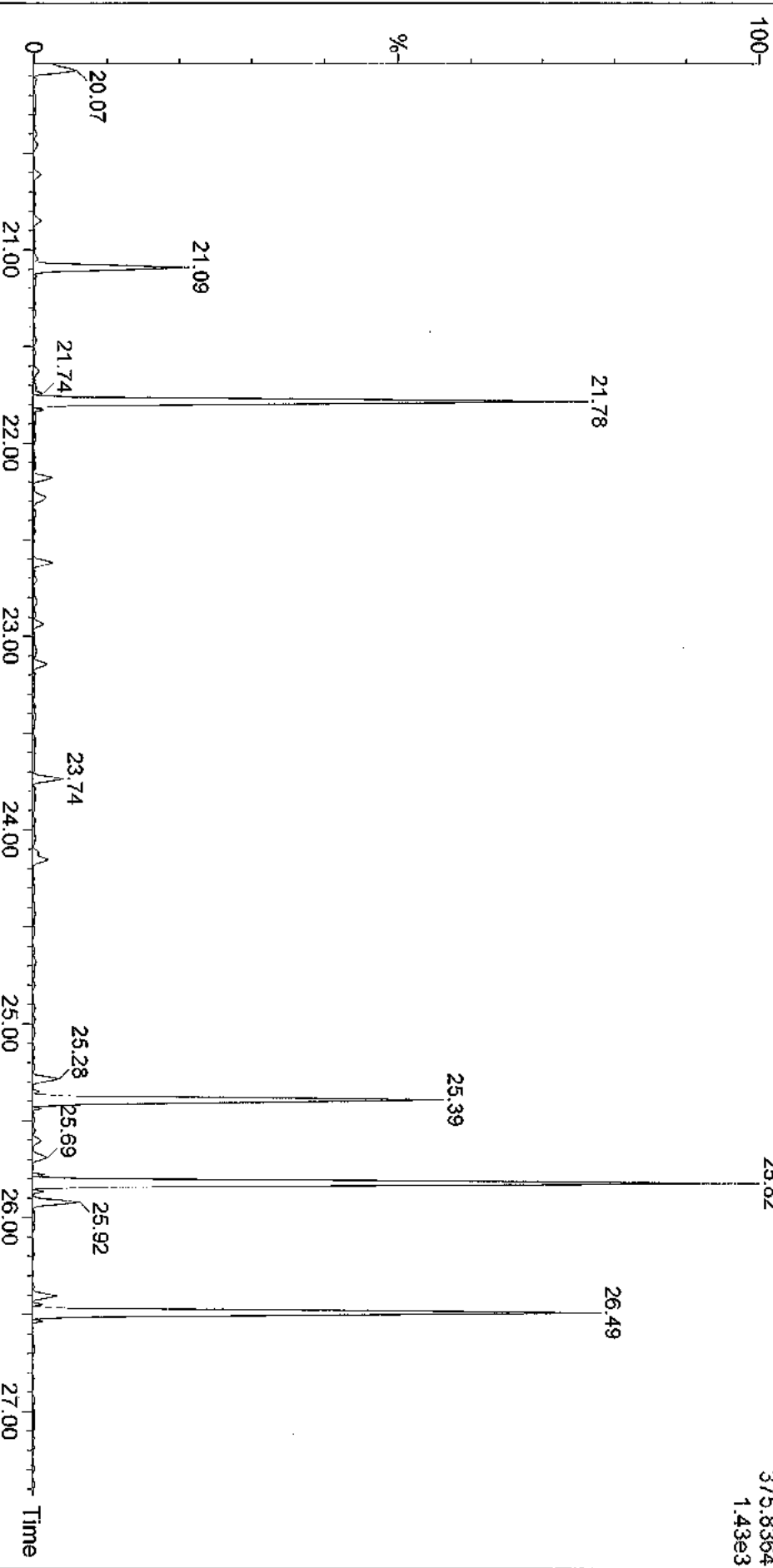
19:42:49

1: Voltage SIR 11 Channels EI+

25.82

375.8364

1.43e3



Quantity Sample Report

Sample List: C:\MASSLTX\Default-pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default-pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

39: Function 1 Lockmass

db5_win_perf/CS3

Lot CS3WT1020

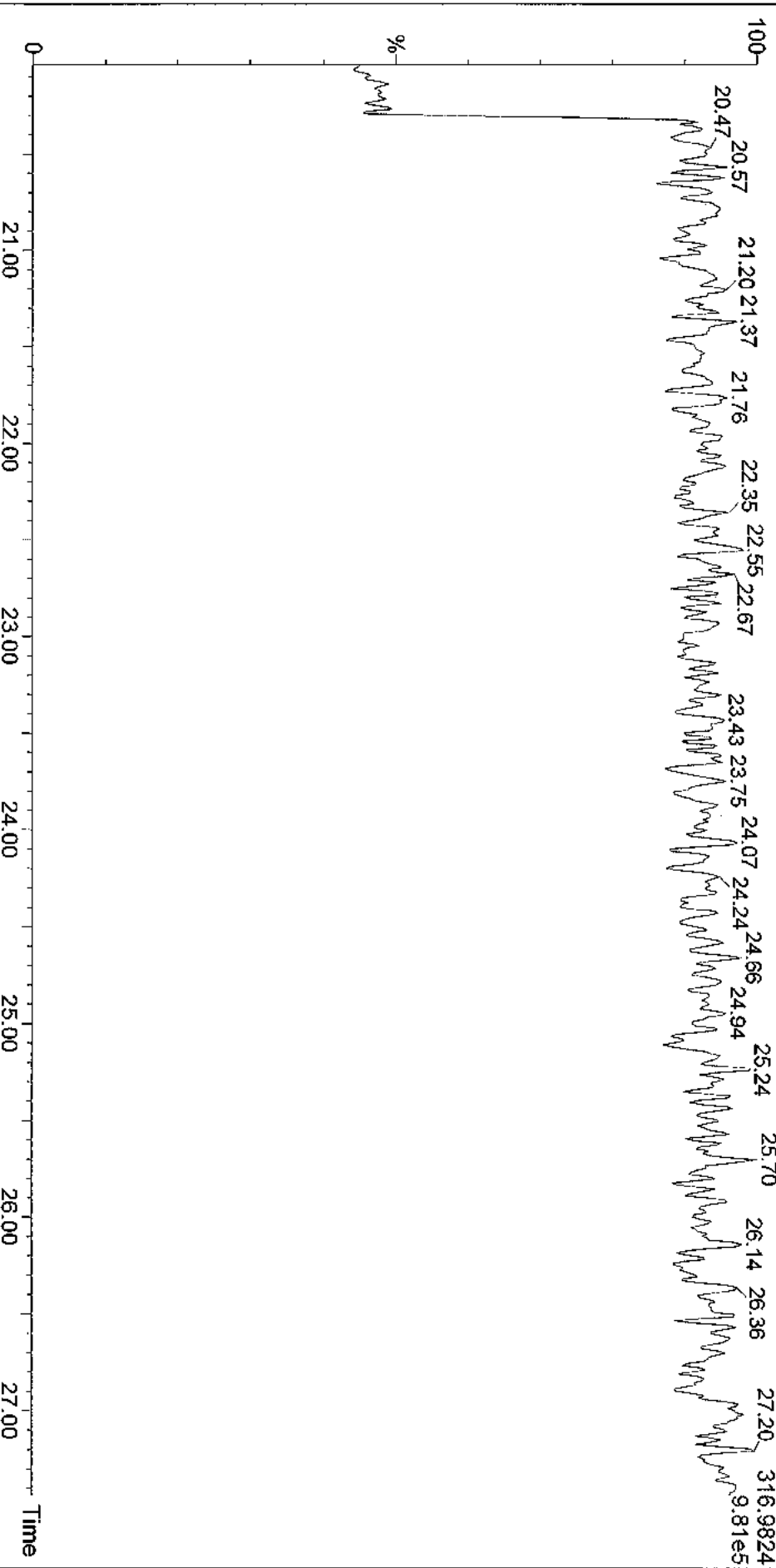
M3211209A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

19:42:49

f: Voltage SIR 11 Channels EI+



Quantity Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

40: Totals Penta-Furans

AutoSpec Ultima - M536

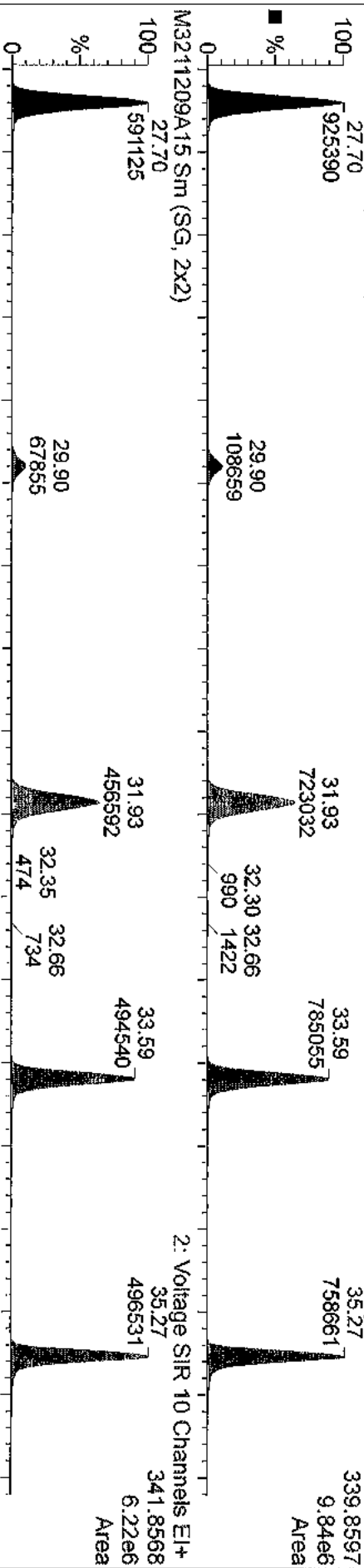
09-Dec-2021

db5_win_perf/CS3
 Lot CS3WT1020

19:42:49

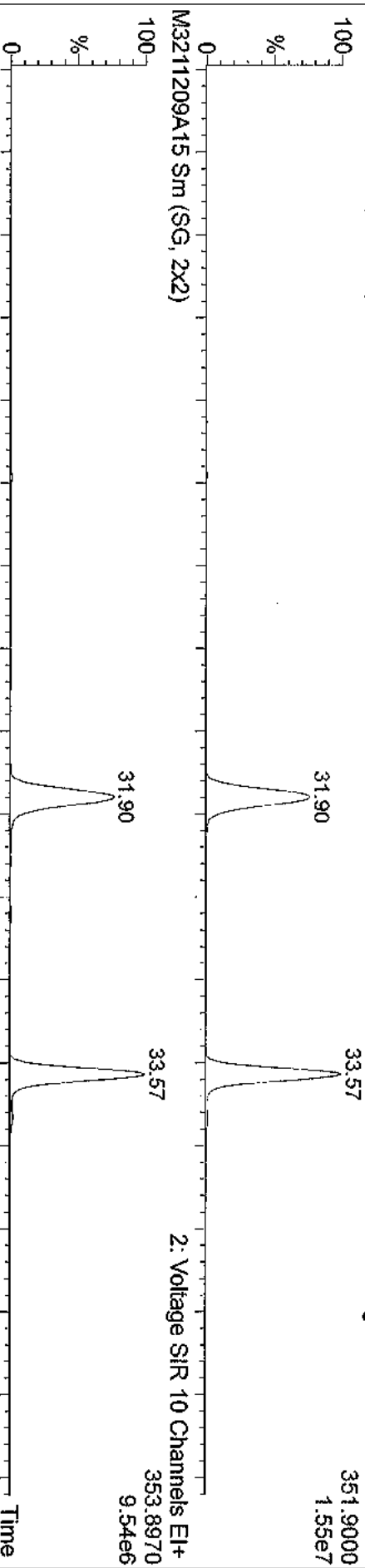
M3211209A15 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



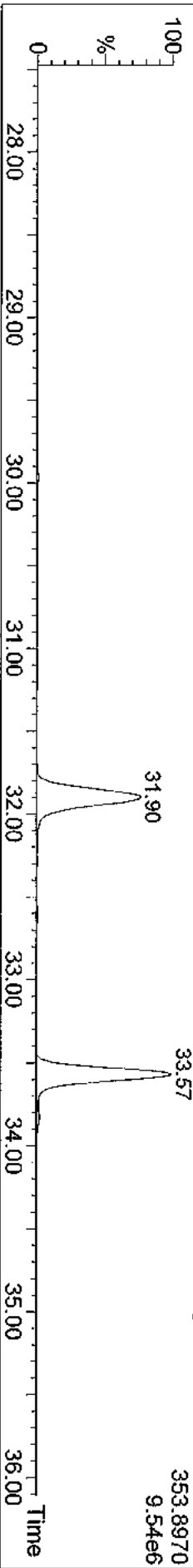
M3211209A15 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



M3211209A15 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_wln_perf/CS3

42: Hepta DBE

AutoSpec Ultima - M536

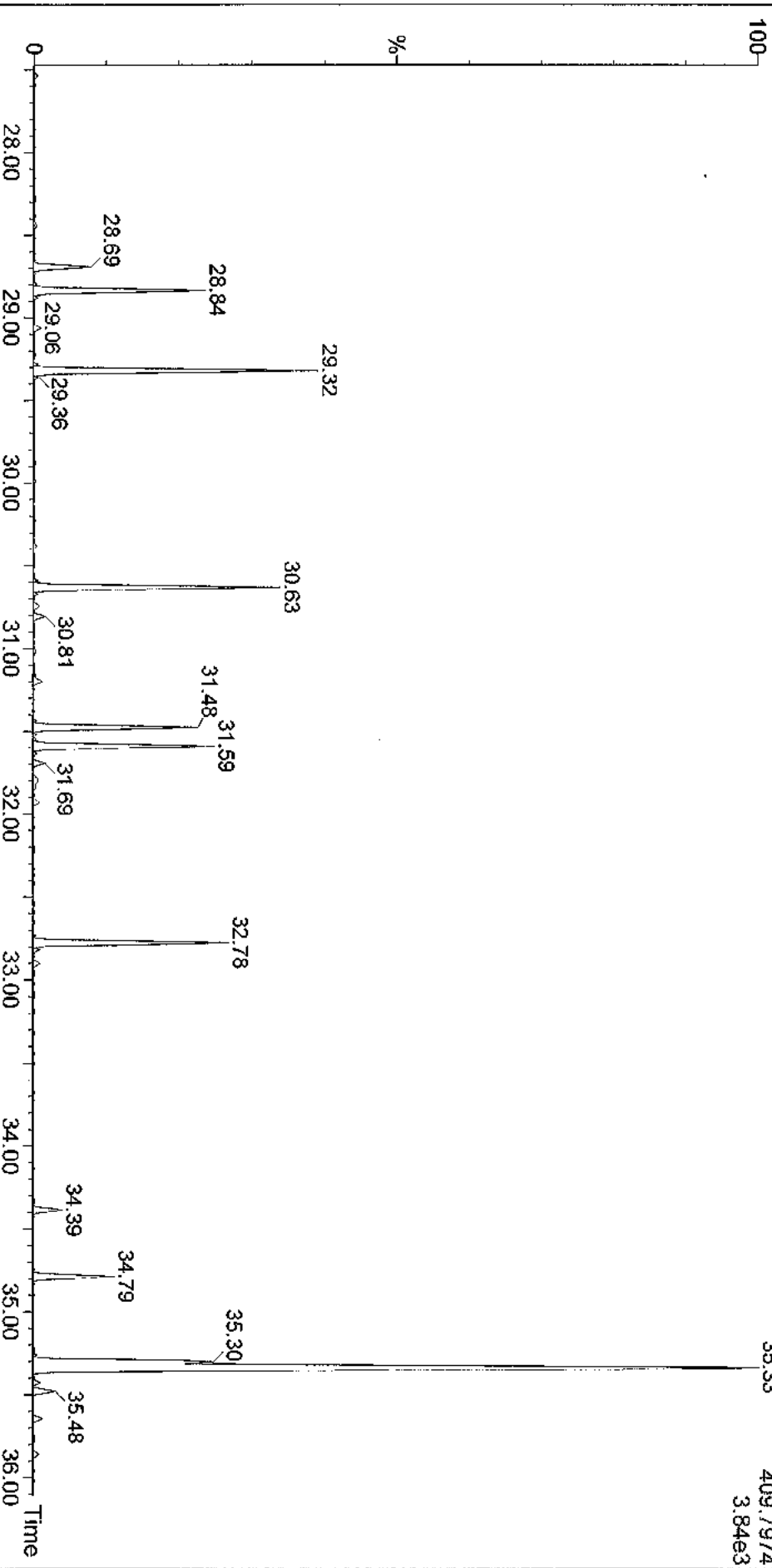
09-Dec-2021

db5_wln_perf/CS3
 Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

19:42:49

2: Voltage SIR 10 Channels EI+
 35.33 409.7974 3.84e3



Quantity Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

43: Function 2 Lockmass

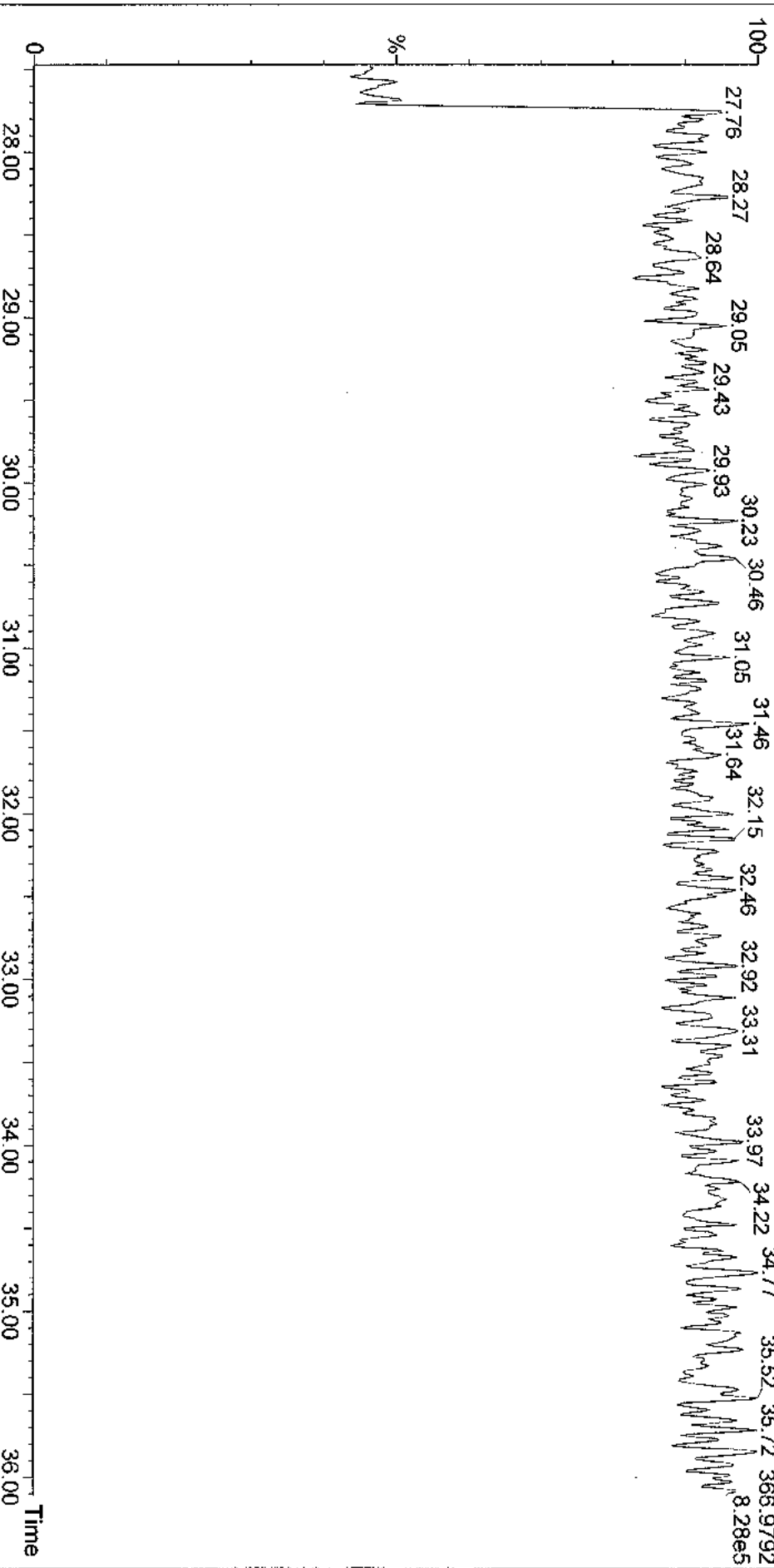
db5_win_perf/CS3
 Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 19:42:49

2: Voltage SIR 10 Channels EI+



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

44: Totals Hexa-Furans

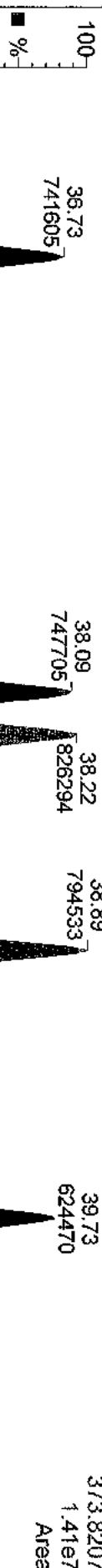
AutoSpec Ultima - M536

db5_win_perf/CS3
 Lot CS3WT1020

09-Dec-2021
 19:42:49

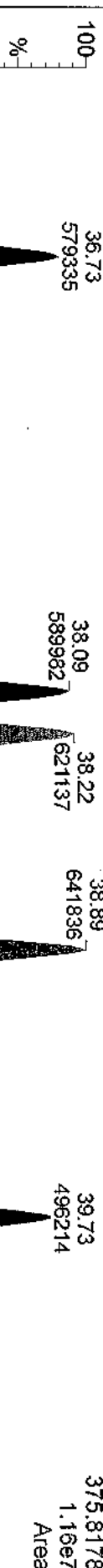
M3211209A15 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



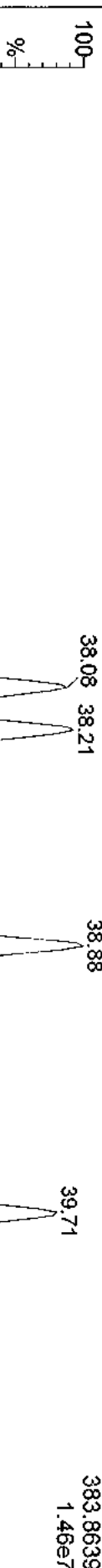
M3211209A15 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



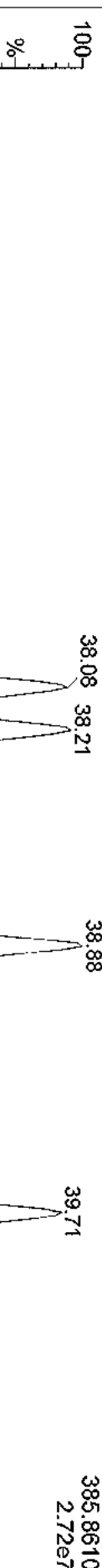
M3211209A15 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211209A15 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



Time

Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYX\Default.pro\METHODS\M321127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

45: Tocals Hexa-Dioxins

AutoSpec Ultima - M536

09-Dec-2021 19:42:49

db5_win_perf/CS3
 Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211209A15 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



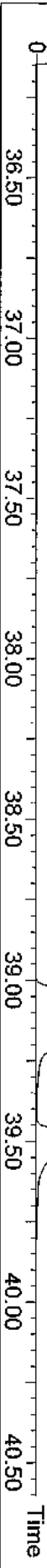
M3211209A15 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211209A15 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



Quantity Sample Report

Sample list: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209A_1613
Last modified: Fri Dec 10 07:13:23 2021
Method: C:\MASSLTX\Default.pro\METHOD\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
Text: db5_wln_perf/CS3

46: Octa DPE

Autospec Ultima - M536

09-Dec-2021

db5_wln_perf/CS3
Lot CS3WT1020

19:42:49

M3211209A15 Sm (SG, 2X2)

3: Voltage SIR 10 Channels EI+

37.69

39.69 445.7555 823

39.40

36.90

36.82

36.57

36.46

36.36

37.47

38.90

39.64

Time

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
Last modified: Fri Dec 10 07:11:23 2021
Method: C:\MASSLYNX\Default.pro\METHOD\M321127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
Text: db5_win_perf/CS3

47: Function 3 Lockmass

db5_win_perf/CS3

Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

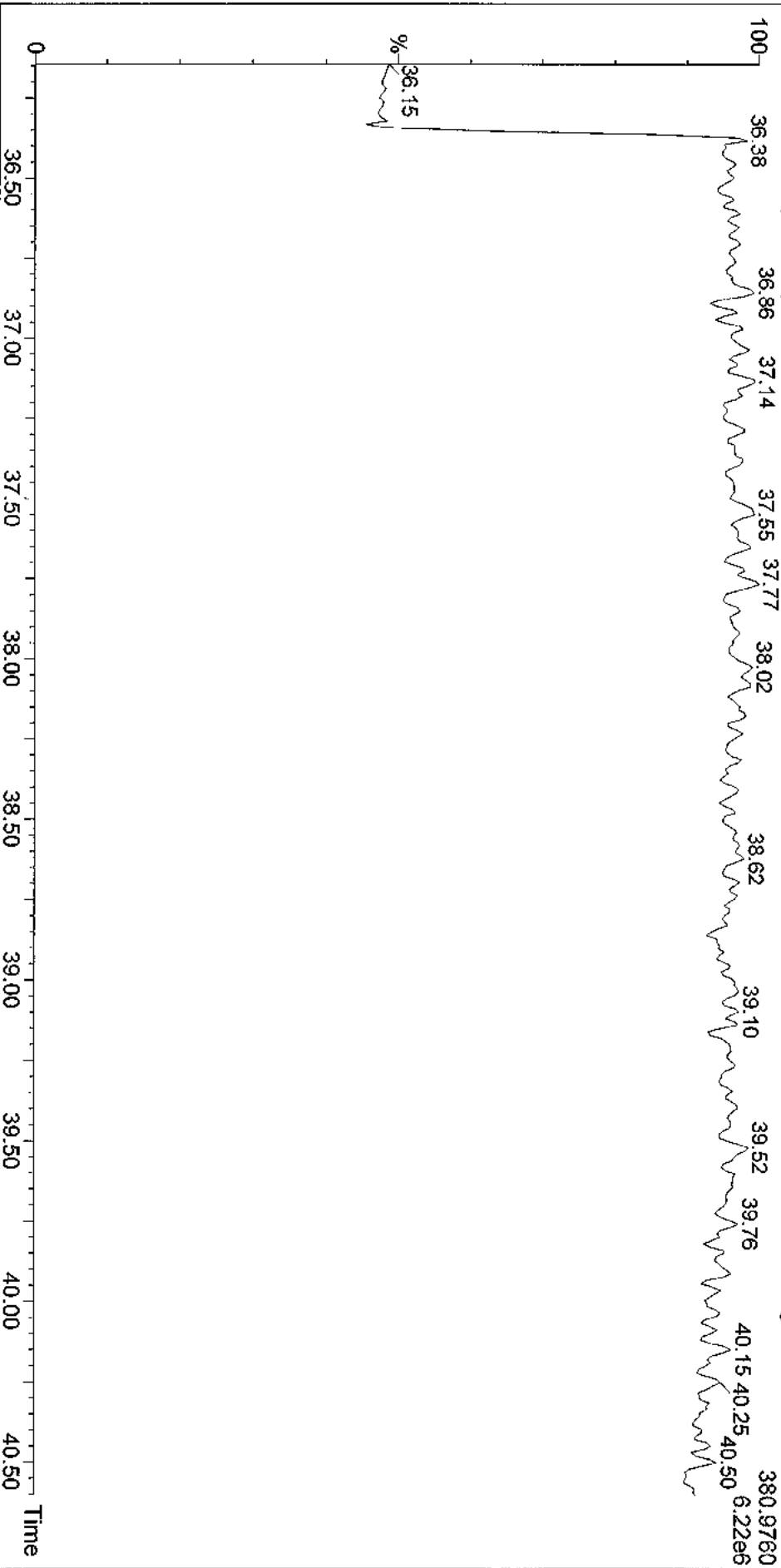
19:42:49

3: Voltage S/R 10 Channels EI+

380.9760

40.15 40.25 40.50

6.22e6



Quantify Sample Report

Sample list: C:\MASSLYNX\Default.pro\SAMPLES\M3211209A_1613
 Test modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M321127A_HC_1613
 Test modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_wln_perf/CS3

48: Totals Hepta-Furans

AutoSpec Ultima - M536

09-Dec-2021

db5_wln_perf/CS3

19:42:49

M3211209A15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209A15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209A15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209A15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



Quantify Sample Report

Sample List: C:\MSSTXK\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTXK\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

49: Totals Hepta-Dioxins

AutoSpec Ultima - M536

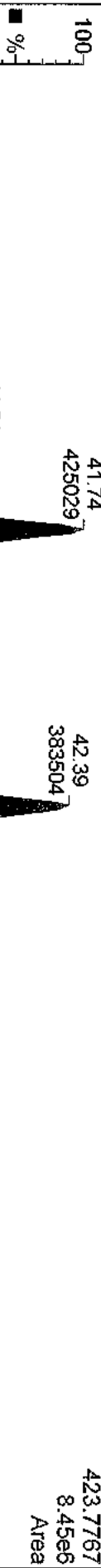
09-Dec-2021

db5_win_perf/CS3

19:42:49

Lot CS3WT1020

4: Voltage SIR 10 Channels EI+



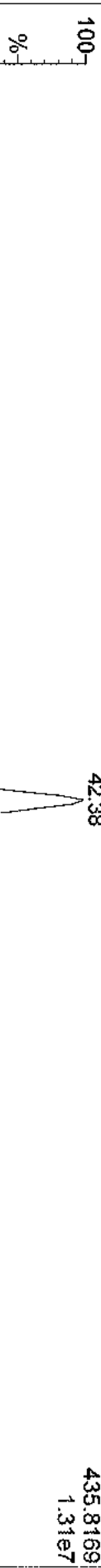
M3211209A15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



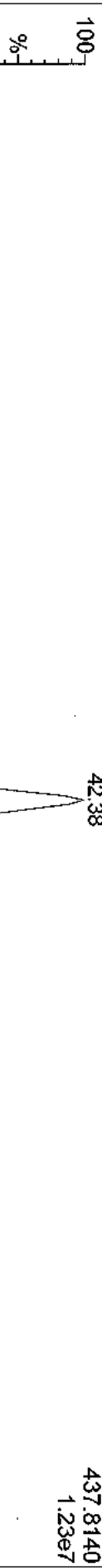
M3211209A15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209A15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



Time

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

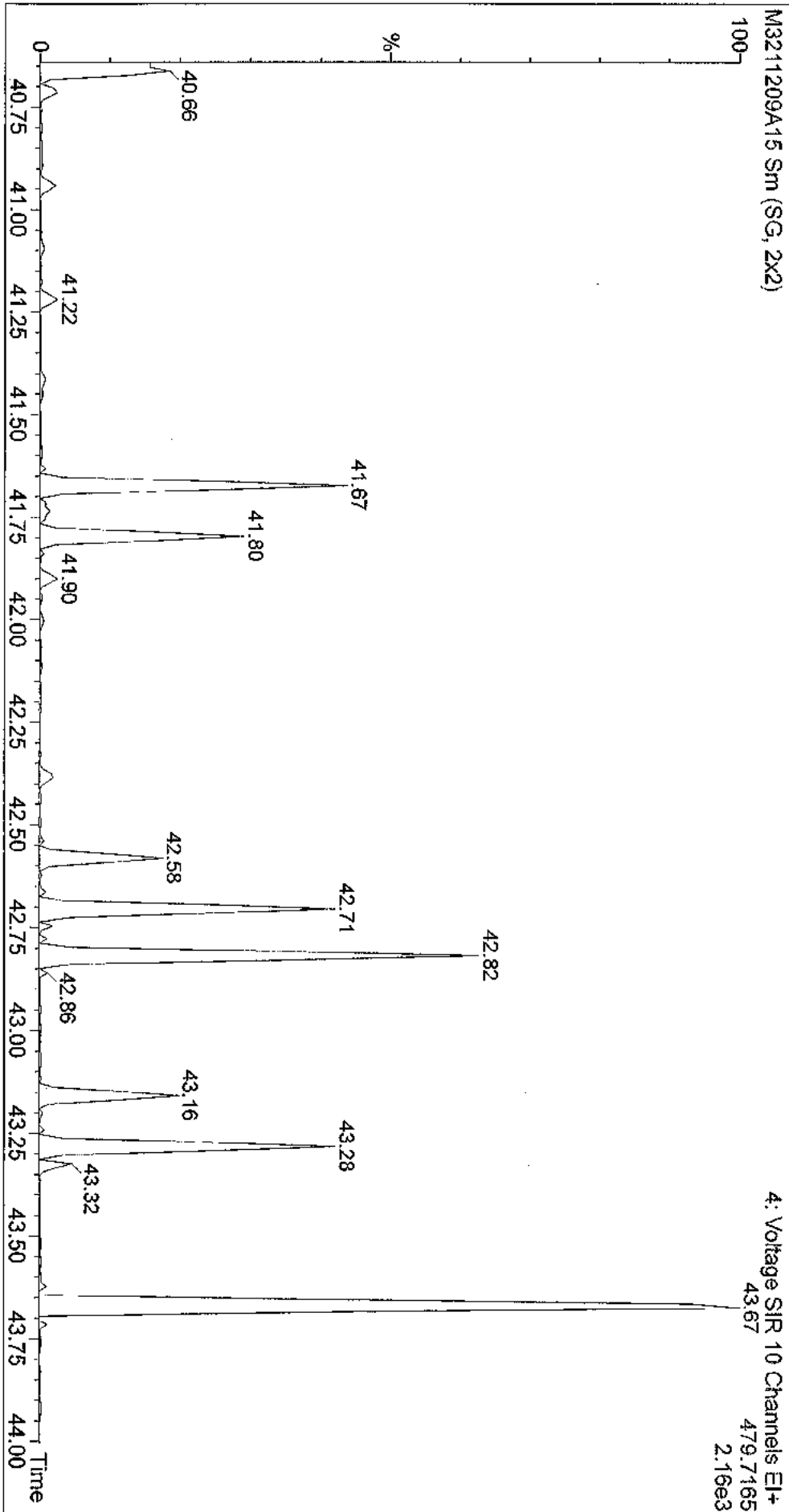
Name: M3211209A15
 Text: db5_wln_perf/CS3

50: Non-DPE

AutoSpec Ultima - M536

db5_wln_perf/CS3
 Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)



09-Dec-2021
 19:42:49
 4: Voltage SIR 10 Channels EI+
 479.7165
 2.16e3

Quantity Sample Report

Sample list: C:\MASS\DATA\default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASS\DATA\default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

SI: Function 4 Lockmass

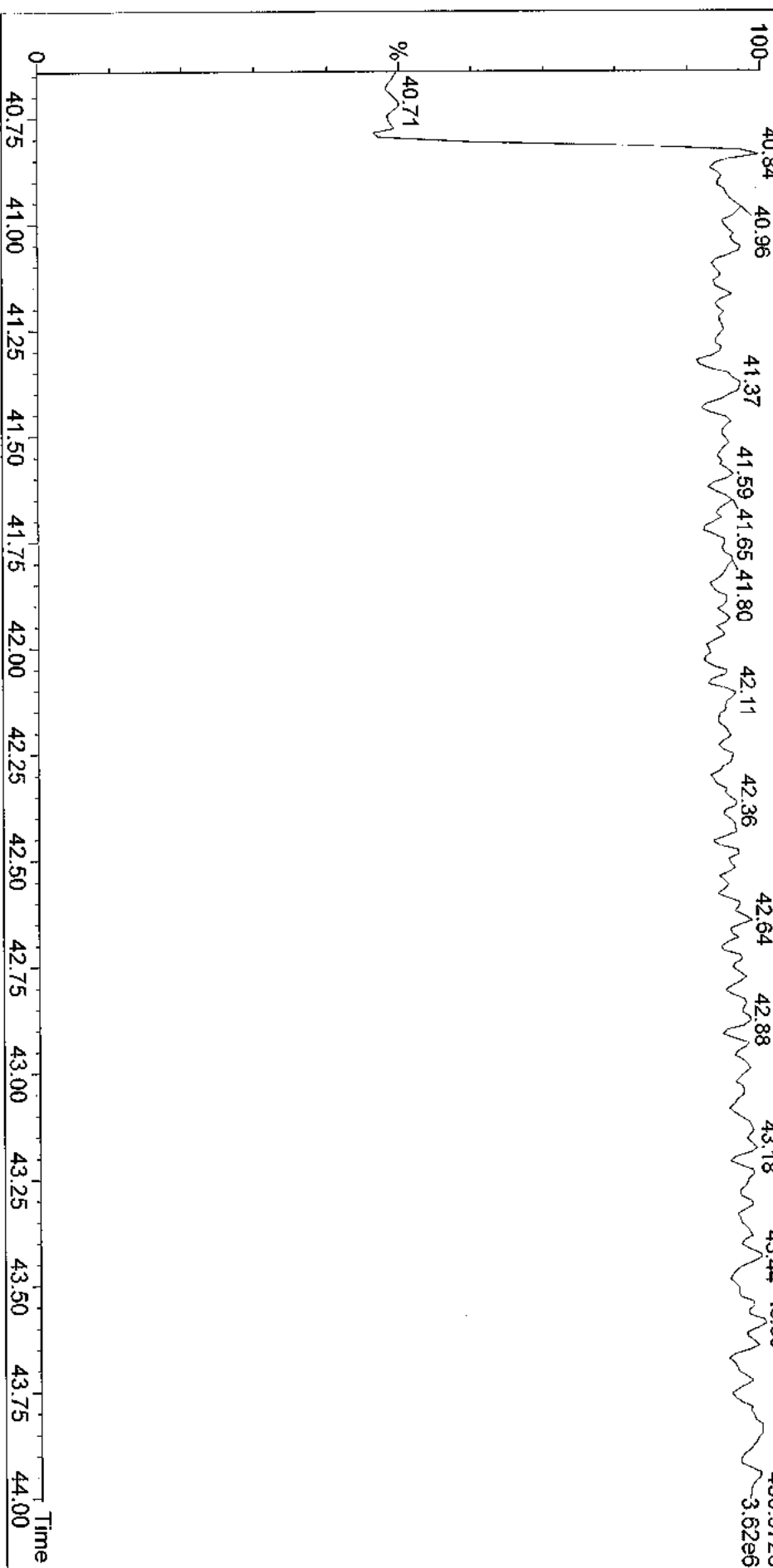
db5_win_perf/CS3
 Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 19:42:49

4: Voltage SIR 10 Channels EI+
 430.9728
 3.62e6



Quantify Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

10: ODS

AutoSpec Ultima - M536

09-Dec-2021

db5_win_perf/CS3
 Lot CS3WT1020

19:42:49

M3211209A15 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



M3211209A15 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



M3211209A15 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



M3211209A15 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



Quantify Sample Report

Sample Name: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

17: OGD

AutoSpec Ultima - M536

09-Dec-2021

db5_win_perf/CS3

19:42:49

Lot CS3WT1020

5: Voltage SIR 8 Channels EI+



M3211209A15 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



M3211209A15 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



M3211209A15 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



Time

Quantity Sample Report

Sample list: C:\MSDCHEM\Default.pro\SMFICDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

52: Decca DPE

db5_win_perf/CS3

Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

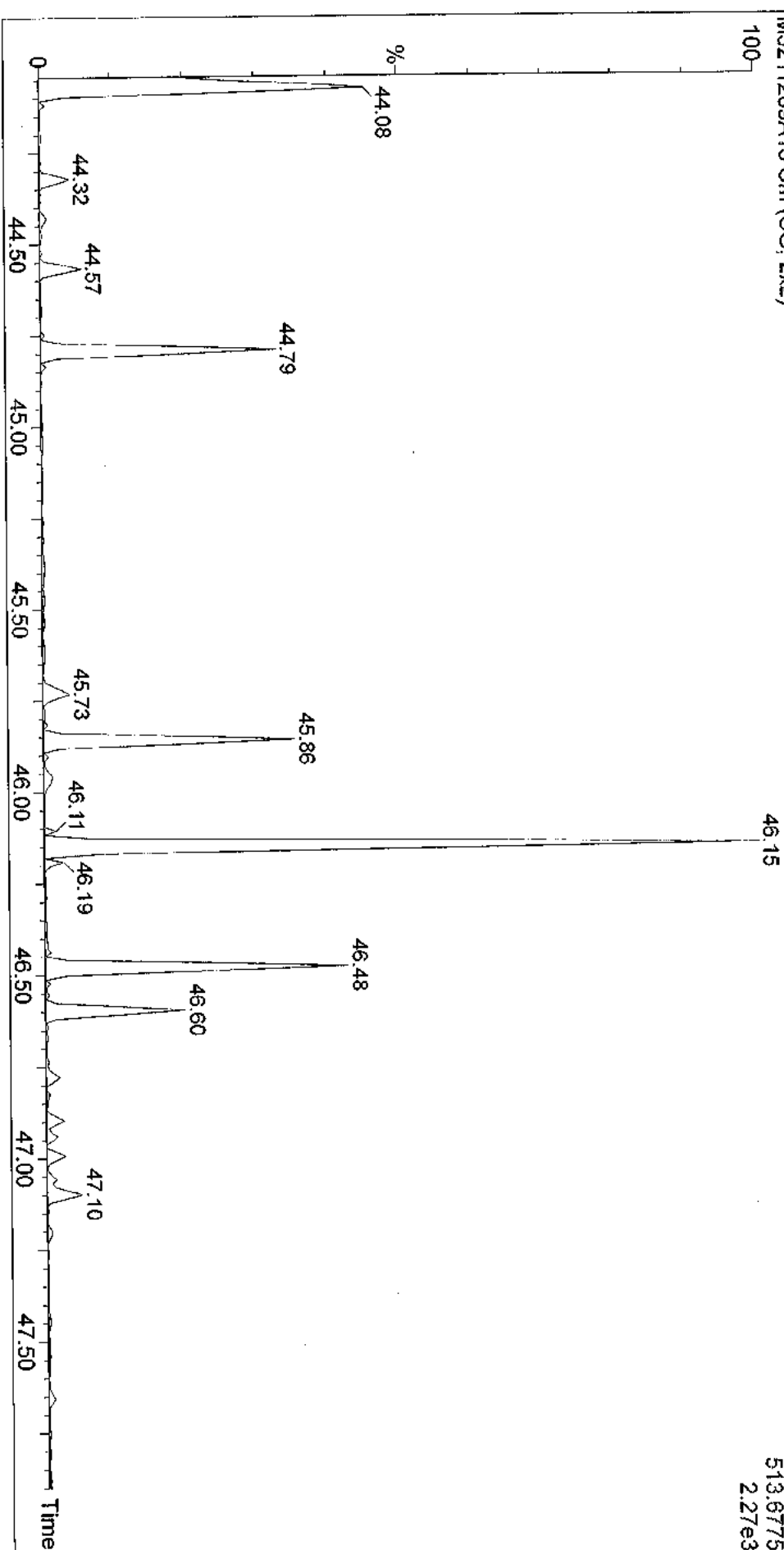
09-Dec-2021

19:42:49

5: Voltage SIR 8 Channels EI+

513.6775

2.27e3



Quantity Sample Report

Sample List: C:\MASTURN\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASTURN\Default.pro\METHOD\M3211137A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:35 2021

Name: M3211209A15
 Text: db5_win_perf/CS3

S3: Function 5 Lockmass

db5_win_perf/CS3

Lot CS3WT1020

M3211209A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

19:42:49

5: Voltage SIR 8 Channels EI+

100 44.28 44.35 44.60 44.76 44.92 45.02 45.17 45.46 45.68 45.77 46.17 46.35 46.58 46.83 47.13 47.33 47.48 47.73 454.97 28 2.29e6

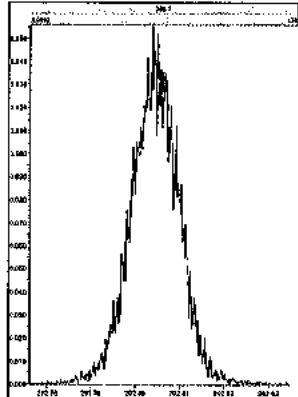
44.15

0 44.50 45.00 45.50 46.00 46.50 47.00 47.50 Time

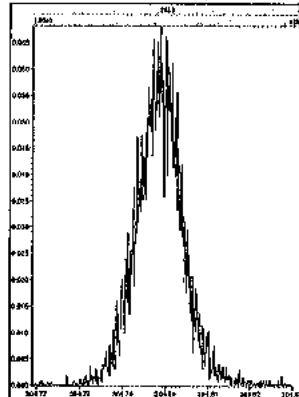
File: Experiment: 1613_ult3.exp Reference: pkf.ref Function: 1 @ 200 (ppm)

Printed: Thursday, December 09, 2021 07:33:48 Eastern Standard Time

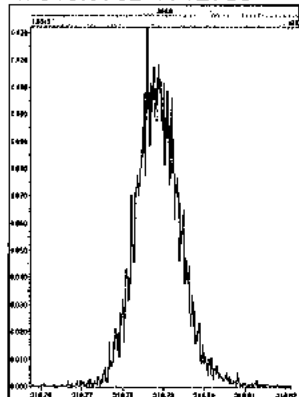
M 292.9824 R 12562



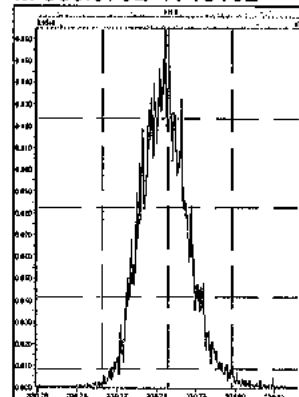
M 304.9824 R 13024



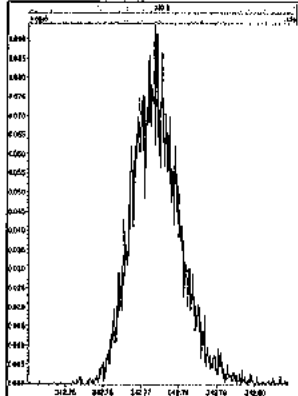
M 318.9792 R 12756



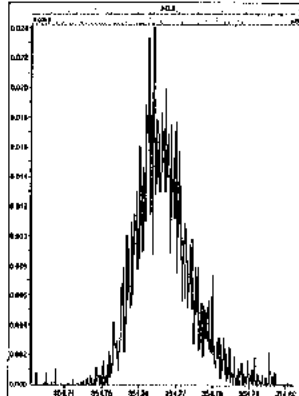
M 330.9792 R 13162



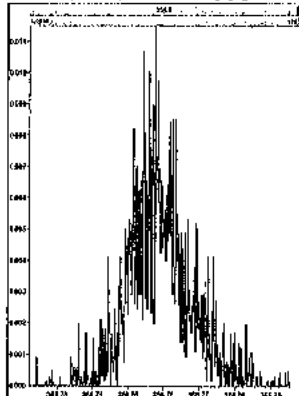
M 342.9792 R 12565



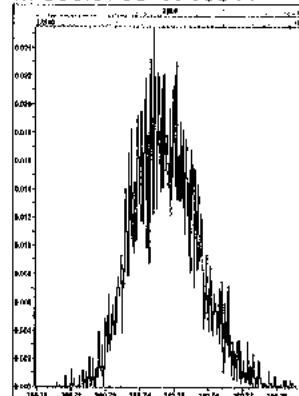
M 354.9792 R 12077



M 366.9792 R 12560



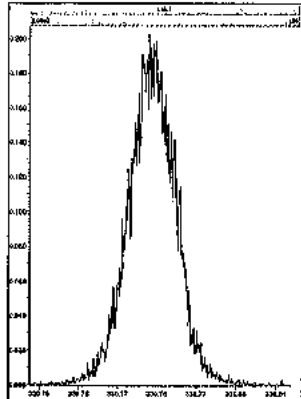
M 380.9760 R 10041



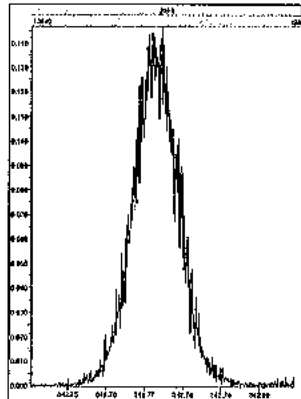
File: Experiment: 1613_ult3.exp Reference: plk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, December 09, 2021 07:34:24 Eastern Standard Time

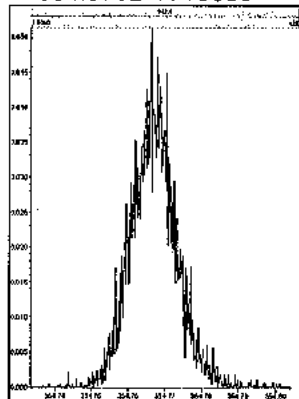
M 330.9792 R 12076



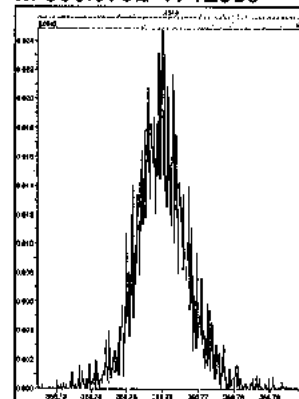
M 342.9792 R 12751



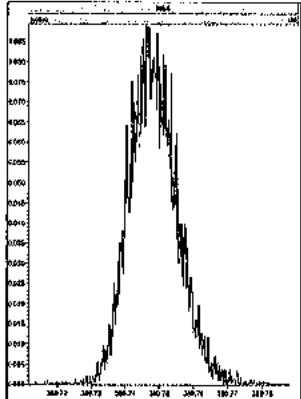
M 354.9792 R 13089



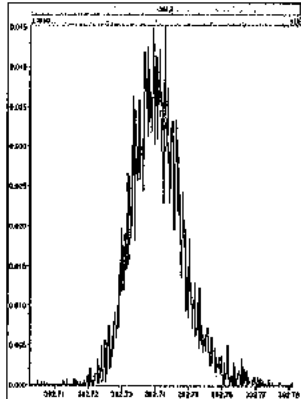
M 366.9792 R 12688



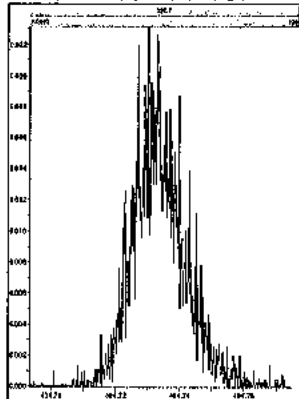
M 380.9760 R 12377



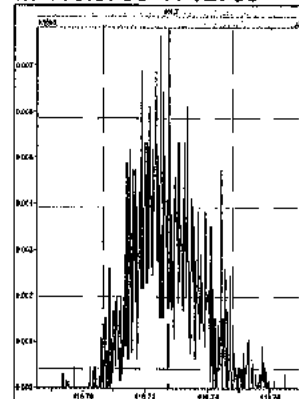
M 392.9760 R 11311



M 404.9760 R 12757



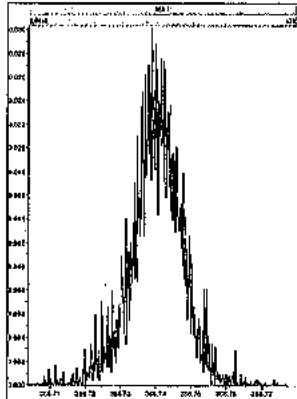
M 416.9760 R 12755



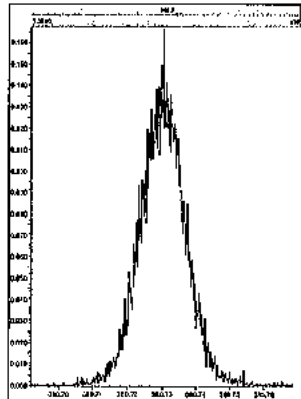
File: Experiment: 1613_ult3.exp Reference: pkf.ref Function: 3 @ 200 (ppm)

Printed: Thursday, December 09, 2021 07:34:55 Eastern Standard Time

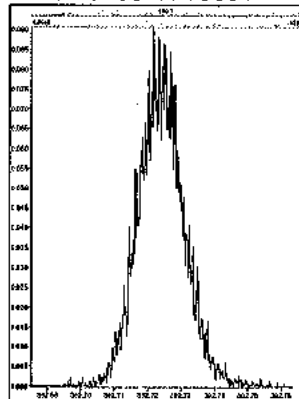
M 366.9792 R 14041



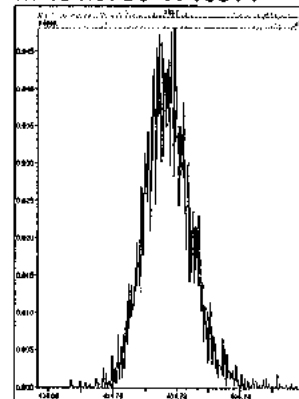
M 380.9760 R 12136



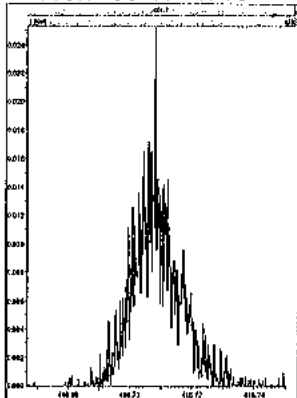
M 392.9760 R 13301



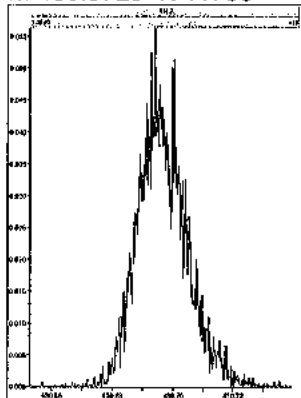
M 404.9760 R 13814



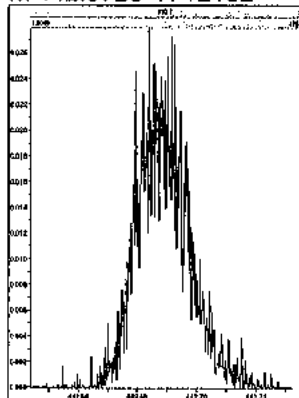
M 416.9760 R 14710



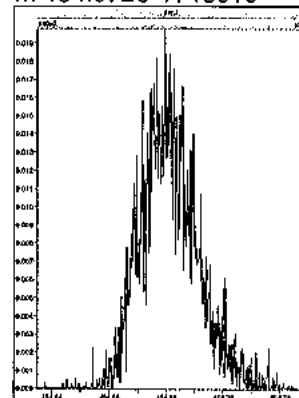
M 430.9728 R 11735



M 442.9728 R 12132



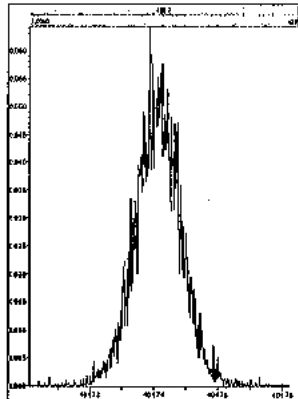
M 454.9728 R 13019



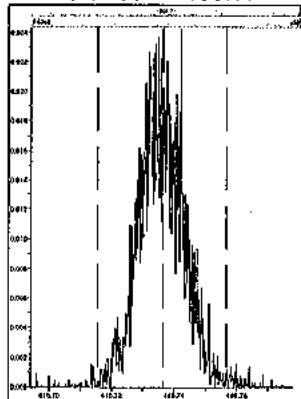
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, December 09, 2021 07:35:23 Eastern Standard Time

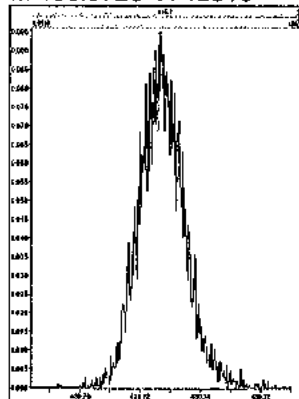
M 404.9760 R 12884



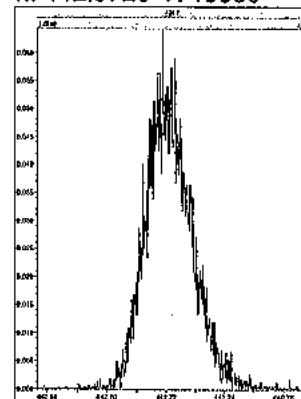
M 416.9760 R 15924



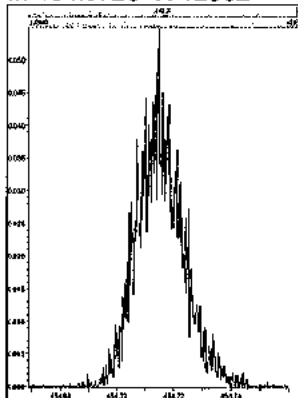
M 430.9728 R 12318



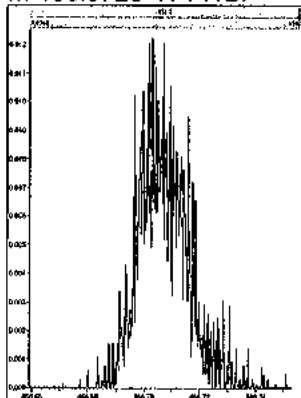
M 442.9728 R 13588



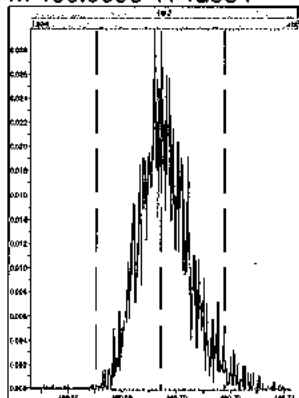
M 454.9728 R 12562



M 466.9728 R 14127



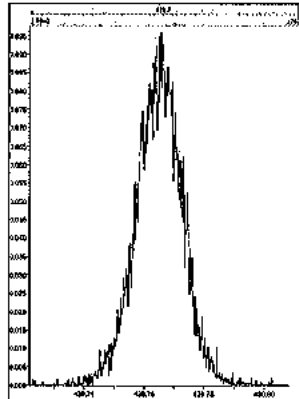
M 480.9696 R 12954



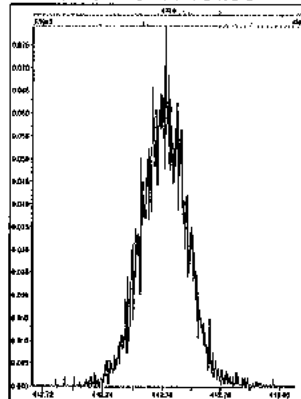
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, December 09, 2021 07:35:49 Eastern Standard Time

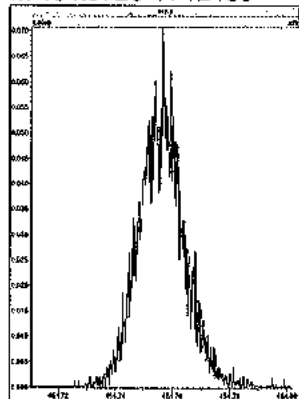
M 430.9728 R 12626



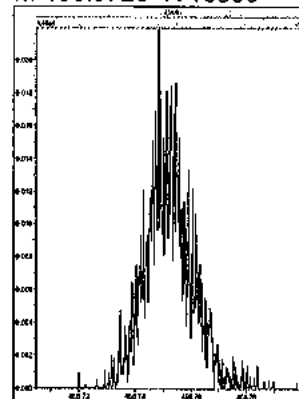
M 442.9728 R 13296



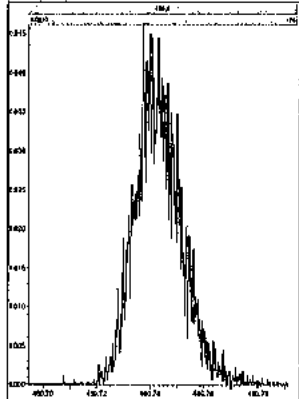
M 454.9728 R 12439



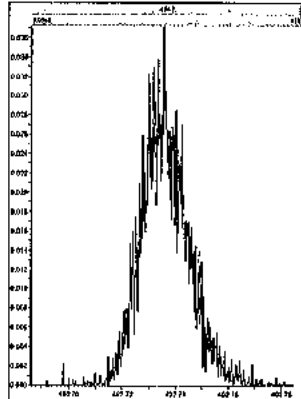
M 466.9728 R 16555



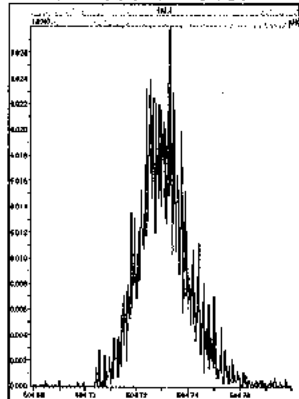
M 480.9696 R 12884



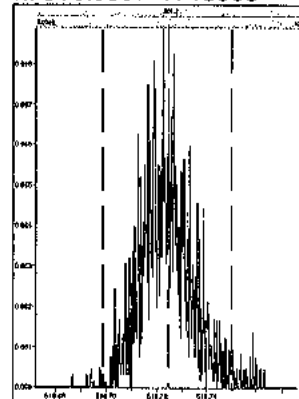
M 492.9696 R 12883



M 504.9696 R 13157



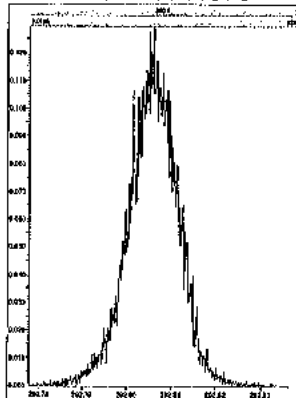
M 516.9697 R 18658



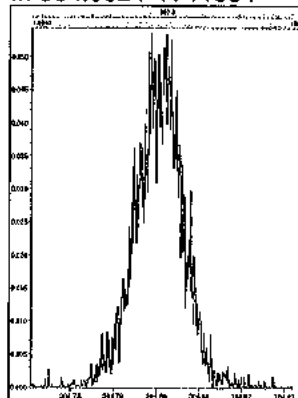
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, December 09, 2021 21:21:02 Eastern Standard Time

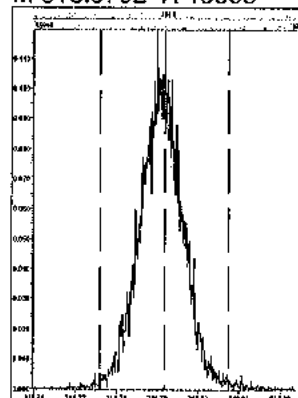
M 292.9824 R 11573



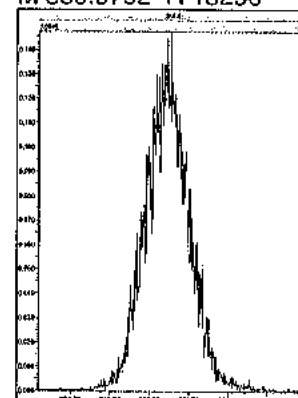
M 304.9824 R 11964



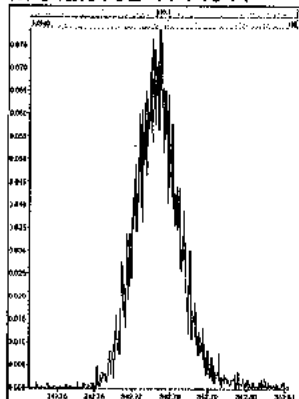
M 318.9792 R 13588



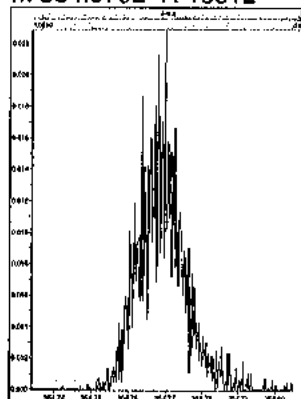
M 330.9792 R 13296



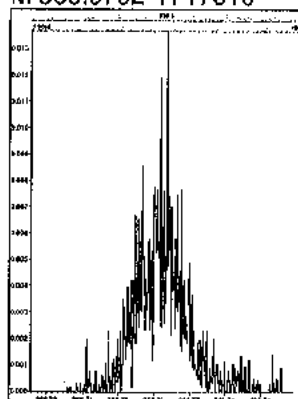
M 342.9792 R 14041



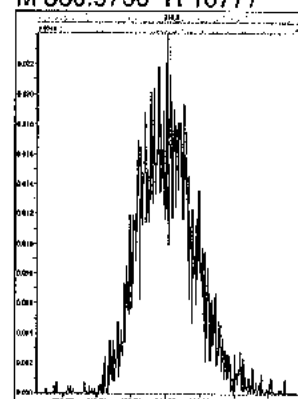
M 354.9792 R 13812



M 366.9792 R 17610



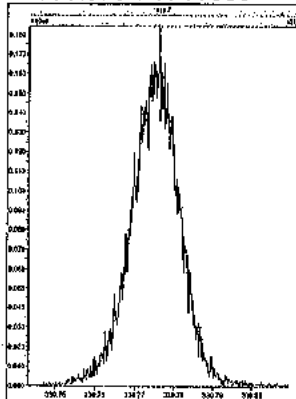
M 380.9760 R 10777



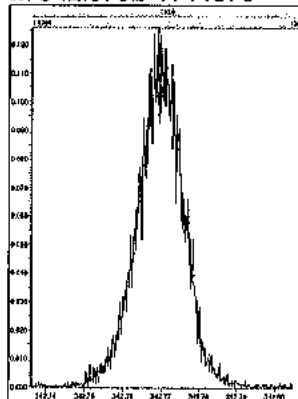
File: Experiment: 1613_ult3.exp Reference: pkf.ref Function: 2 @ 200 (ppm)

Printed: Thursday, December 09, 2021 21:22:24 Eastern Standard Time

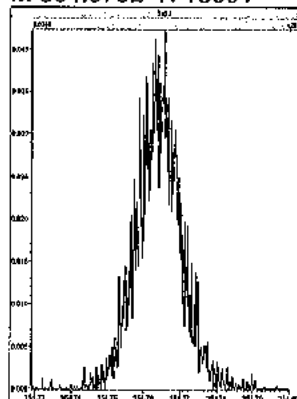
M 330.9792 R 11680



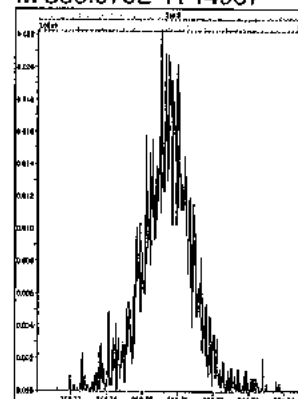
M 342.9792 R 11570



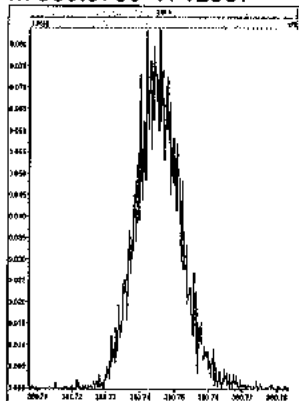
M 354.9792 R 13661



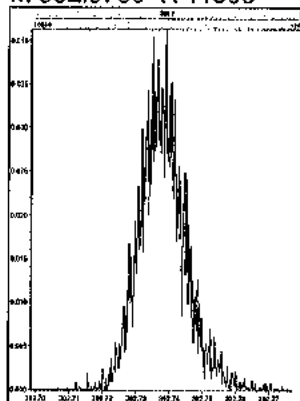
M 366.9792 R 14967



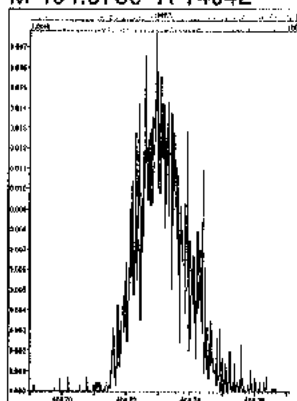
M 380.9760 R 12887



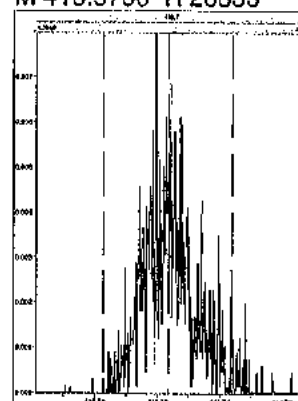
M 392.9760 R 11908



M 404.9760 R 14042



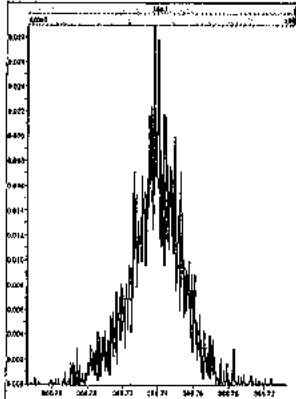
M 416.9760 R 20833



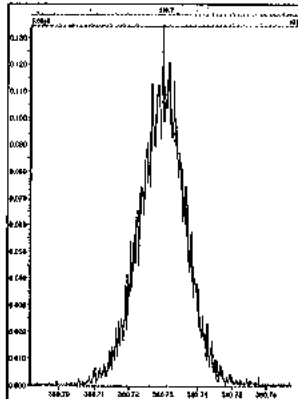
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Printed: Thursday, December 09, 2021 21:23:08 Eastern Standard Time

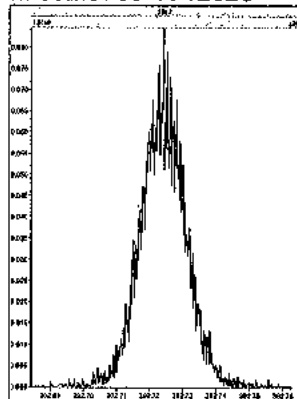
M 366.9792 R 13885



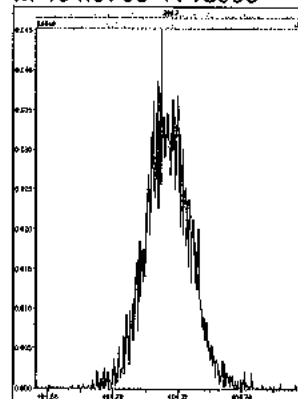
M 380.9760 R 13021



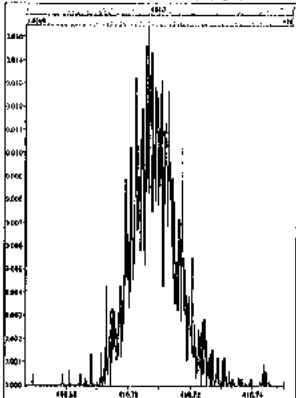
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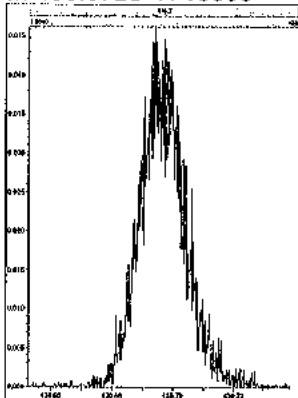
M 404.9760 R 13968



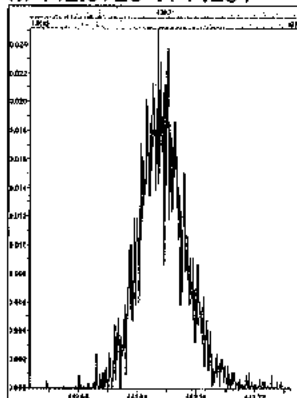
M 416.9760 R 15151



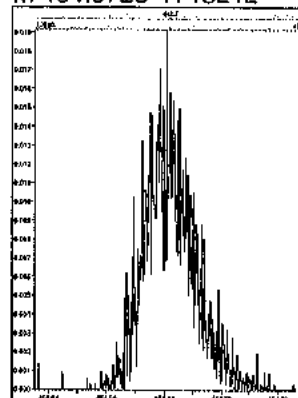
M 430.9728 R 13300



M 442.9728 R 14281



M 454.9728 R 15242



Experiment Calibration Report

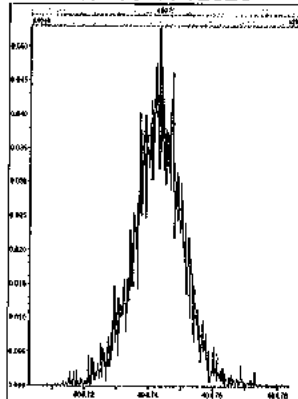
MassLynx 4.1

Page 1 of 1

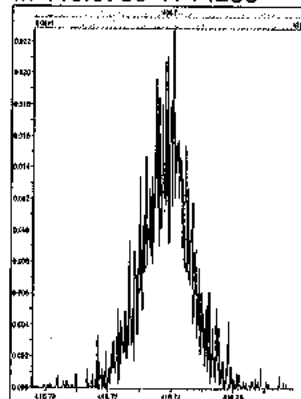
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Printed: Thursday, December 09, 2021 21:23:52 Eastern Standard Time

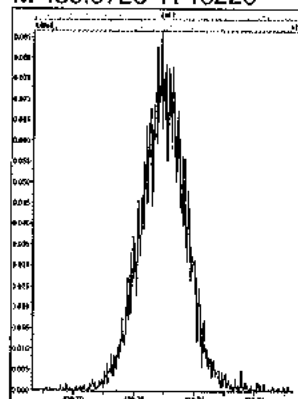
M 404.9760 R 12623



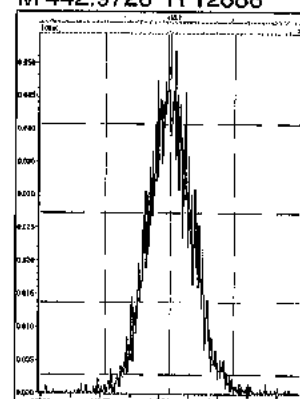
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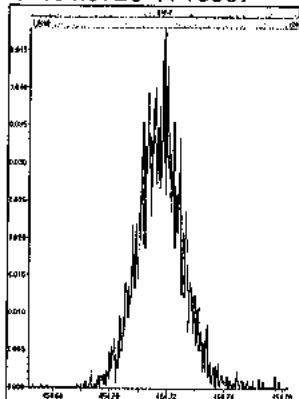
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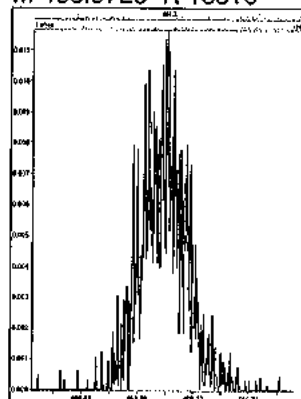
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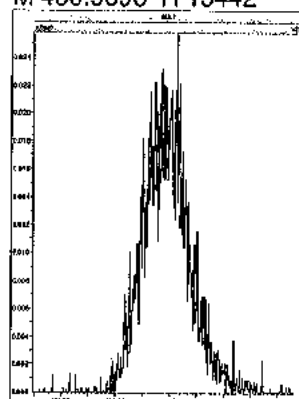
M 454.9728 R 13587



M 466.9728 R 18516



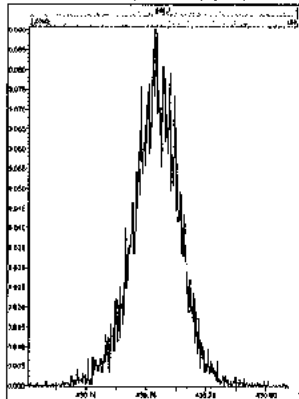
M 480.9696 R 13442



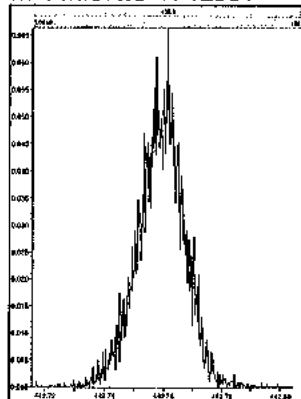
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Printed: Thursday, December 09, 2021 21:24:34 Eastern Standard Time

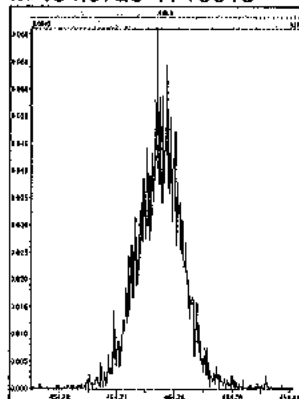
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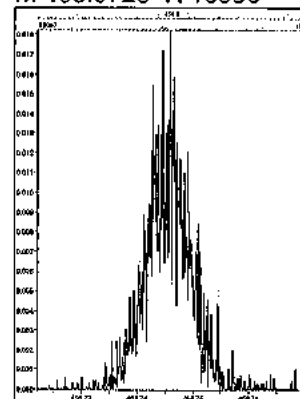
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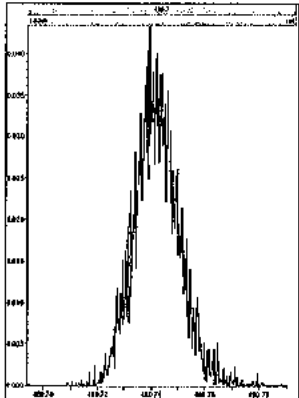
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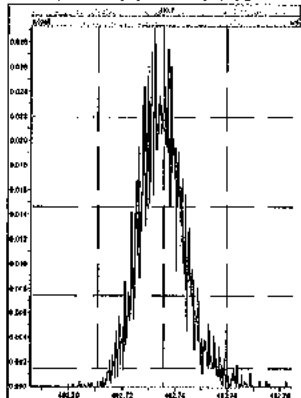
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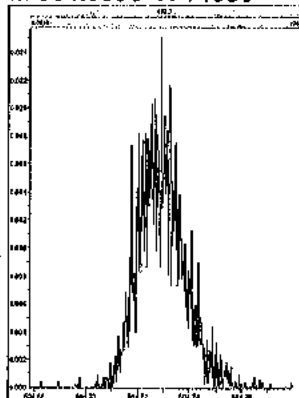
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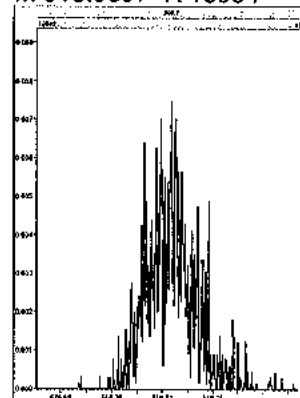
M 492.9696 R 15428



M 504.9696 R 14880



M 516.9697 R 18384



Method 1613 VER
ID : CS3_1613_01
FILE: M3211209B01
EPA Method 1613

	Conc (ng/mL)	Test	VER Lo	VER HI
2,3,7,8-Cl4-Dibenzofuran	11	OK	8.4	12
1,2,3,7,8-Cl5-Dibenzofuran	53	OK	41	60
2,3,4,7,8-Cl5-Dibenzofuran	53	OK	41	61
1,2,3,4,7,8-Cl6-Dibenzofuran	55	OK	45	56
1,2,3,6,7,8-Cl6-Dibenzofuran	55	OK	44	57
2,3,4,6,7,8-Cl6-Dibenzofuran	52	OK	44	57
1,2,3,7,8,9-Cl6-Dibenzofuran	55	OK	45	56
1,2,3,4,6,7,8-Cl7-Dibenzofuran	56	OK	45	55
1,2,3,4,7,8,9-Cl7-Dibenzofuran	52	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	111	OK	63	159
2,3,7,8-Cl4-Dibenzo-p-dioxin	10	OK	7.8	12.9
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	51	OK	39	65
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	52	OK	39	64
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	54	OK	39	64
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	53	OK	41	61
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	50	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	100	OK	79	126

SURROGATE RECOVERY

2,3,7,8-T4CDF-13C12	97	OK	71	140
1,2,3,7,8-P5CDF-13C12	106	OK	76	130
2,3,4,7,8-P5CDF-13C12	107	OK	77	130
1,2,3,4,7,8-H6CDF-13C12	103	OK	76	131
1,2,3,6,7,8-H6CDF-13C12	112	OK	70	143
2,3,4,6,7,8-H6CDF-13C12	106	OK	73	137
1,2,3,7,8,9-H6CDF-13C12	99	OK	74	135
1,2,3,4,6,7,8-H7CDF-13C12	87	OK	78	129
1,2,3,4,7,8,9-H7CDF-13C12	91	OK	77	129
2,3,7,8-T4CDD-13C12	102	OK	82	121
1,2,3,7,8-P5CDD-13C12	108	OK	62	160
1,2,3,4,7,8-H6CDD-13C12	101	OK	85	117
1,2,3,6,7,8-H6CDD-13C12	114	OK	85	118
1,2,3,4,6,7,8-H7CDD-13C12	88	OK	72	138
OCDD-13C12	210	OK	96	415
2,3,7,8-T4CDD-37Cl4	9.4	OK	7.9	12.7

Quantity Sample Summary Report

Sample List: C:\MSDCHEM\Default-pro\SAFEDB\M3211209E_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\BPA 1613B_M321127A
 Last modified: Mon Nov 29 14:59:47 2021
 Job Code:

Printed: Sat Dec 11 09:05:06 2021

Sample Name: M3211209B01 Sample ID: Lot CS3WT1020

# Name	RT	Area	Sec Area	Abs Resp	Ion Ratio	RFlag	Response	Flags	PG	AdEv	%Rec	IS#	RRF
1 2,3,7,8-TCDF	24.626	112510	142131	254640	0.79	YES	10.438	bd	10.743	7	107	18	1.044
2 1,2,3,7,8-TCDF	31.972	621044	395189	1016232	1.57	YES	51.877	bd	52.964	6	106	19	1.038
3 2,3,4,7,8-TCDF	33.022	673347	427812	1101159	1.57	YES	57.530	bd	52.791	6	106	20	1.151
4 1,2,3,4,7,8-TCDF	38.107	615571	486286	1101857	1.27	YES	63.220	bd	54.524	9	109	21	1.264
5 1,2,3,6,7,8-TCDF	38.241	685795	539970	1225765	1.27	YES	59.843	bd	54.669	9	109	22	1.197
6 2,3,4,6,7,8-TCDF	38.901	622225	485210	1107435	1.28	YES	61.550	bd	52.312	5	105	23	1.231
7 1,2,3,7,8,9-HxCDF	39.337	526646	477925	942676	1.27	YES	59.922	bd	54.608	9	109	24	1.198
8 1,2,3,4,6,7,8-HpCDF	41.447	477925	477071	954996	1.00	YES	68.206	bd	56.445	13	113	25	1.364
9 1,2,3,4,7,8,9-HpCDF	42.746	376674	369965	746639	1.02	YES	60.724	bd	51.591	3	103	26	1.214
10 OCDF	45.444	640080	744820	1384900	0.86	YES	137.877	bd	111.200	11	111	32	1.379
11 2,3,7,8-TCDD	25.680	76682	96102	172784	0.80	YES	12.535	dd	10.101	1	101	27	1.253
12 1,2,3,7,8-TCDD	34.355	358572	230341	588913	1.56	YES	57.016	bd	51.078	2	102	28	1.140
13 1,2,3,4,7,8-HxCDD	39.087	376077	295575	671653	1.27	YES	57.625	bd	51.846	4	104	29	1.152
14 1,2,3,5,7,8-HxCDD	39.190	470745	326829	836575	1.29	YES	60.670	dd	54.187	8	108	30	1.213
15 1,2,3,7,8,9-HxCDD	39.531	419512	328663	748175	1.28	YES	54.259	dd	49.621	-1	99	30	1.085
16 1,2,3,4,6,7,8-HpCDD	42.396	282761	238807	571567	0.98	YES	54.578	bd	50.314	1	101	31	1.092
17 OCDD	45.337	485801	569949	1055770	0.85	YES	105.108	bd	99.674	-0	100	32	1.051
18 1,3,6,2,3,7,8-TCDF	24.593	1089385	1350266	2439651	0.81	YES	167.549	bd	97.298	-3	97	33	2.087
19 1,3,6,1,2,3,7,8-TCDF	31.941	1224427	734513	1958939	1.67	YES	208.664	bd	106.220	5	106	33	1.575
20 1,3,6,2,3,4,7,8-TCDF	33.602	1177958	736107	1914065	1.60	YES	163.711	bd	106.697	7	107	33	1.637
21 1,3,6,1,2,3,4,7,8-TCDF	38.086	605364	1137530	1742894	0.53	YES	157.292	bd	103.012	3	103	34	1.373
22 1,3,6,1,2,3,6,7,8-HxCDF	38.221	742414	1205877	2048291	0.57	YES	161.349	dd	112.431	12	112	34	1.613
23 1,3,6,2,3,4,6,7,8-HxCDF	38.891	622416	1176834	1799250	0.53	YES	141.731	bd	105.897	6	106	34	1.417
24 1,3,6,1,2,3,7,8,9-HxCDF	39.716	546003	1027172	1573175	0.53	YES	117.899	bd	87.096	-13	87	34	1.103
25 1,3,6,1,2,3,4,6,7,8-HxCDF	41.436	437759	962409	1400168	0.46	YES	96.856	bd	91.093	-9	91	34	0.969
26 1,3,6,2,3,7,8-TCDD	42.735	361162	868402	1223564	0.42	YES	117.899	bd	101.722	2	102	33	1.179
27 1,3,6,1,2,3,7,8-TCDD	25.658	616275	762174	1378449	0.81	YES	88.343	bd	107.534	8	108	33	0.883
28 1,3,6,1,2,3,7,8-TCDD	34.334	636213	383676	1032889	1.69	YES	91.614	bd	100.802	1	101	34	0.918
29 1,3,6,1,2,3,4,7,8-HxCDD	39.077	653372	512194	1165566	1.28	YES	82.494	bd	87.616	14	114	34	0.825
30 1,3,6,1,2,3,6,7,8-HxCDD	39.180	790810	588076	1378885	1.35	YES	108.618	bd	114.124	-12	88	34	0.825
31 1,3,6,1,2,3,4,6,7,8-HpCDD	42.385	543890	503350	1047240	1.08	YES	158.245	bd	209.712	5	105	34	0.791
32 1,3,6,2,3,7,8-TCDD	45.326	962232	1046554	2008886	0.92	YES	1169174.438	bd	25.224	-75	25	0	11691.744
33 1,3,6,1,2,3,7,8-TCDD	25.372	532015	637159	1169174	0.83	YES	1269481	bd	23.881	-76	24	0	12694.809
34 1,3,6,1,2,3,7,8-TCDD	39.510	693338	576153	1269481	1.20	YES	23.704	bd	9.414	-6	94	33	2.370
35 1,3,7-2,3,7,8-TCDD	25.680	138573	138573	277145	1.00	YES	-	-	33.888	-	-	18	-
36 Totals Tetra-Furans	-	0	0	0	-	-	-	-	45.827	-	-	27	-
37 Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	235.233	-	-	0	-
38 Totals Penta-Furans	-	0	0	0	-	-	-	-	197.253	-	-	28	-
39 Totals Penta-Dioxins	-	0	0	0	-	-	-	-	270.124	-	-	0	-
40 Totals Hexa-Furans	-	0	0	0	-	-	-	-	203.991	-	-	0	-
41 Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	108.458	-	-	0	-
42 Totals Hepta-Furans	-	0	0	0	-	-	-	-	109.249	-	-	31	-
43 Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	-

db5_win_perf/CS3
Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

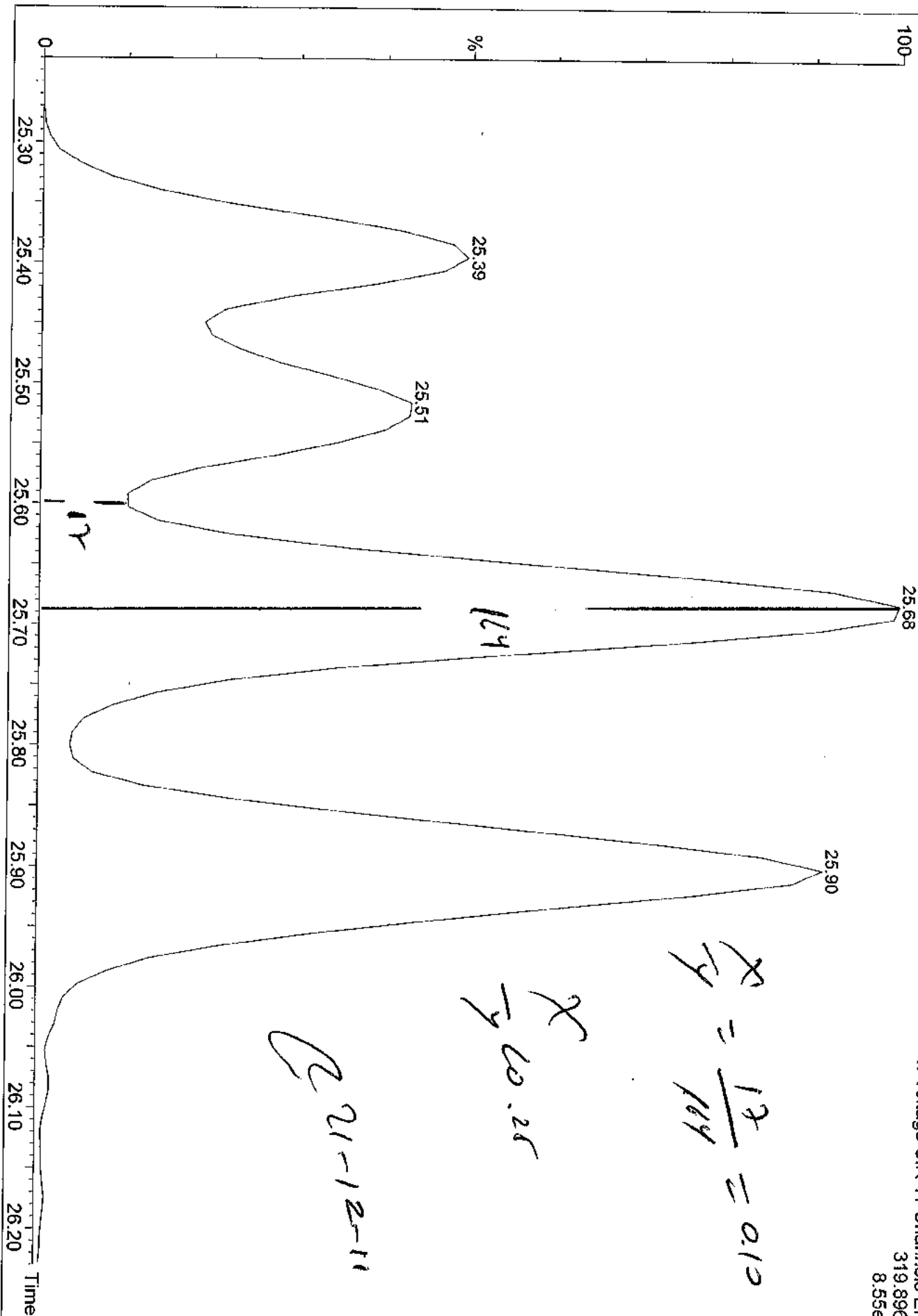
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1: Voltage SFR 11 Channels El-2

319.8962

8.55e992

26



Quantify Sample Report

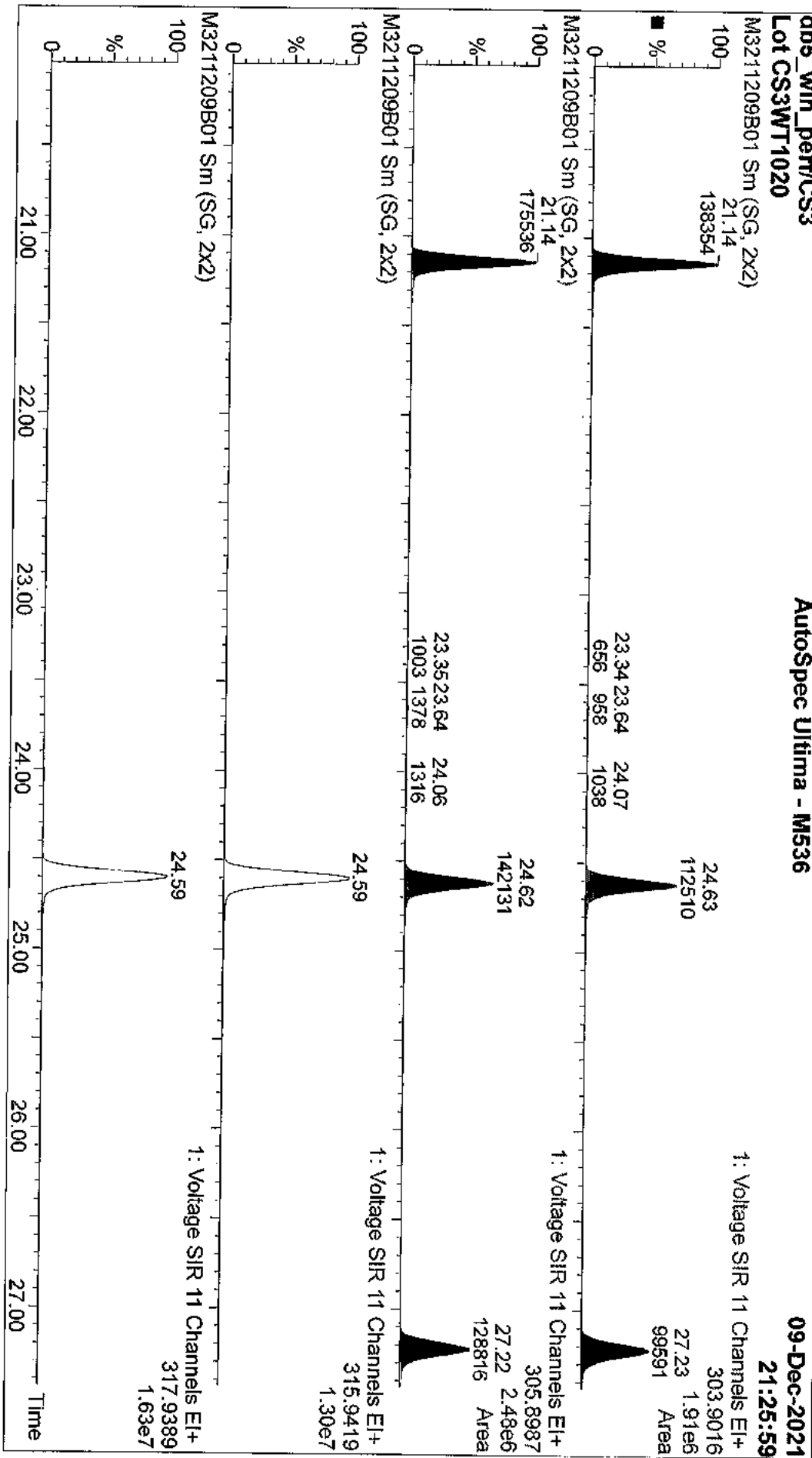
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 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

36: Totals Tetra-Purans

db5_win_perf/CS3
 Lot CS3WT1020



Quantify Sample Report

Sample List: C:\MASSLIVE\Default.prp\SAMPLES\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLIVE\Default.prp\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

37: Totals Tetra-Dioxins

db5_wln_perf/CS3
 Lot CS3WT1020

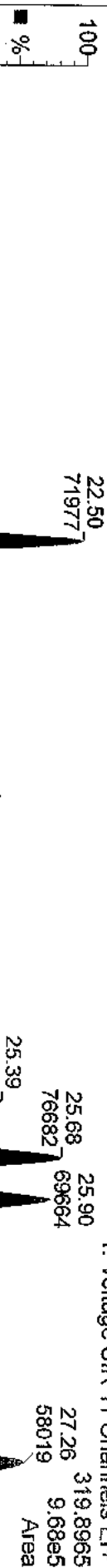
M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

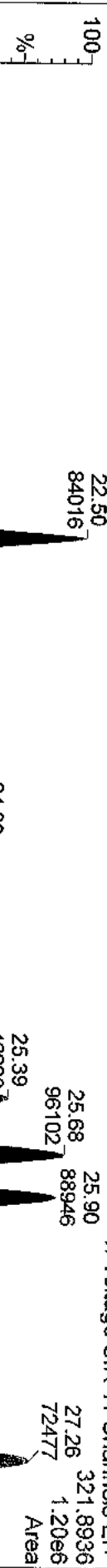
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1: Voltage SIR 11 Channels EI+



M3211209B01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209B01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211209B01 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



Quantify Sample Report

Sample List: C:\MASSIVE\Default-pro\SAMPLES\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSIVE\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

35: C137-2,3,7,8-TCD

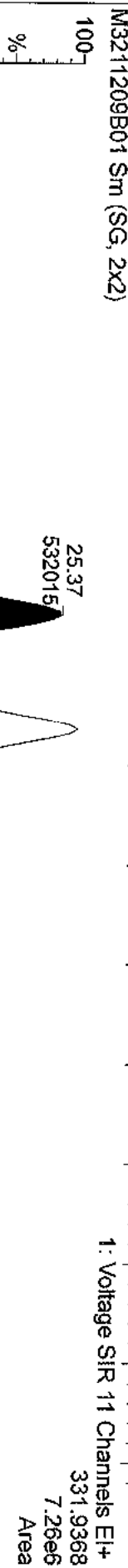
db5_win_perf/CS3
 Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59



Quantify Sample Report

Sample List: C:\MASSVIEW\Default-pro\SMFLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

38: Hexa.DEB

db5_wln_perf/CS3
 Lot CS3WT1020

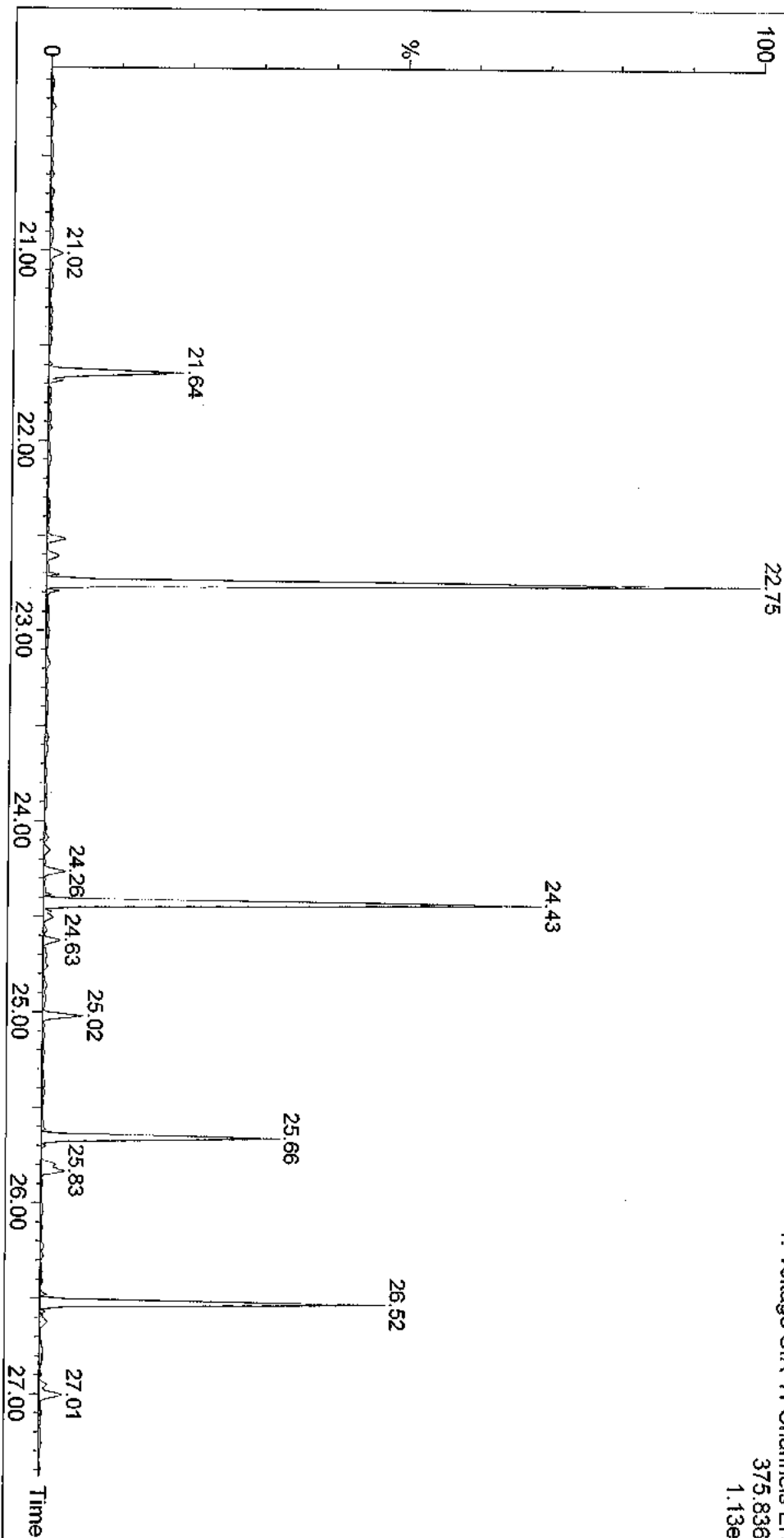
M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59

1: Voltage SIF 11 Channels EI+
 375.8364
 1.13e3



Quantity Sample Report

Sample List: C:\MASSLINK\Default-Pro\SAMPLES\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLINK\Default-Pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

39: Function 1 Lockmass

db5_wln_perf/CS3
 Lot CS3WT1020

M3211209B01 Sm (SG, 2X2)

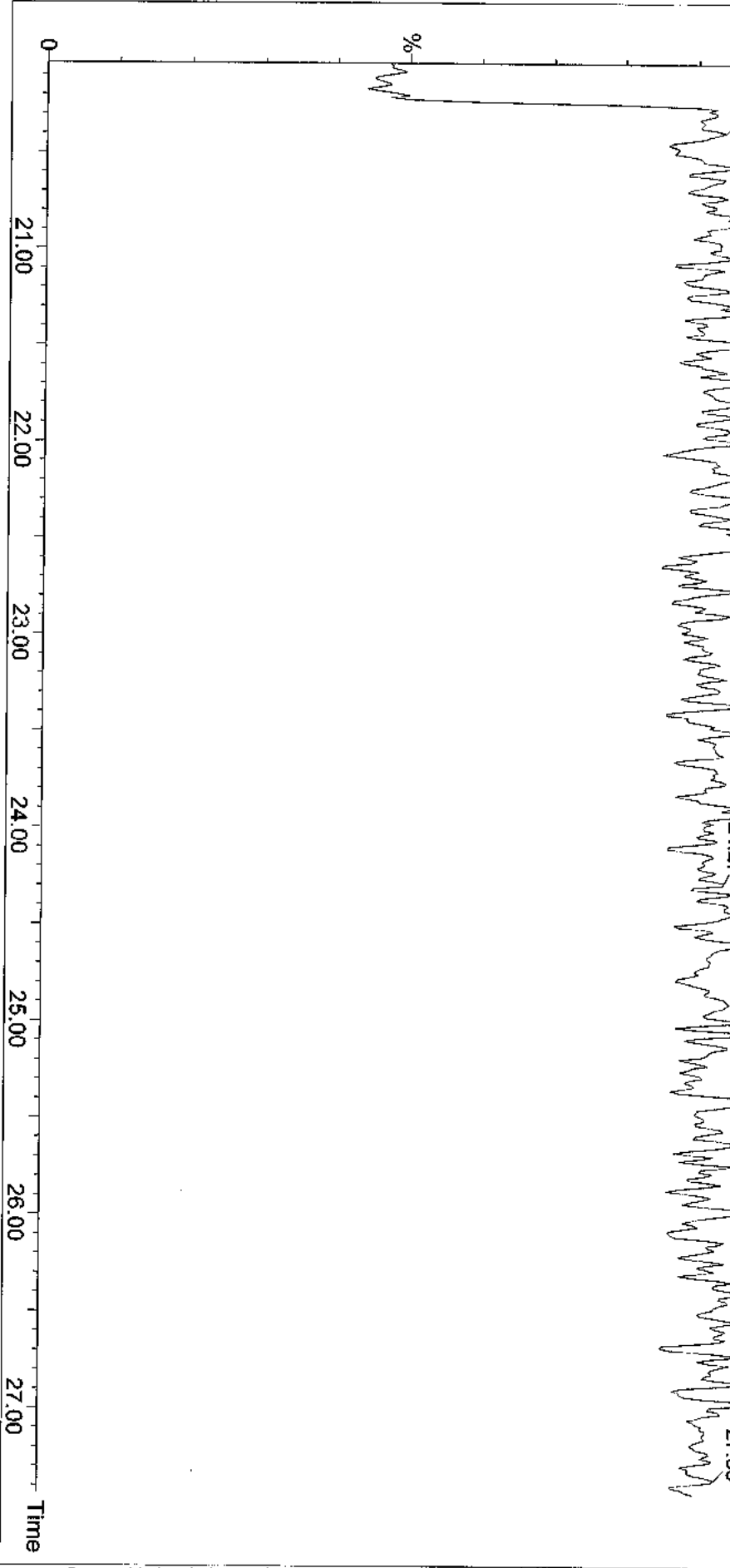
AutoSpec Ultima - M536

09-Dec-2021

21:25:59

1: Voltage SIR 11 Channels EI+

20.39 20.57 20.86 21.48 21.69 22.18 22.53 22.76 23.35 23.50 23.92 24.27 24.59 25.05 25.39 25.98 26.40 26.86 27.36 9.60e5



Quantify Sample Report

Sample List: C:\MASSL\Default-pro\SAMPLES\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSL\Default-pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

40: Totals Penta-Purane

db5_win_perf/CS3 Lot CS3WT1020

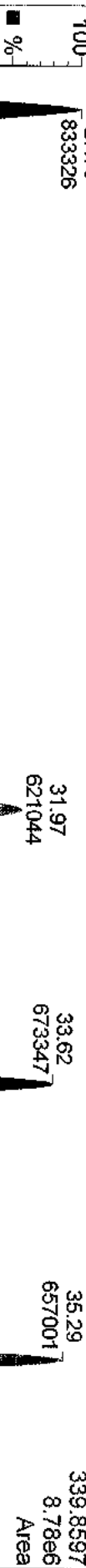
M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

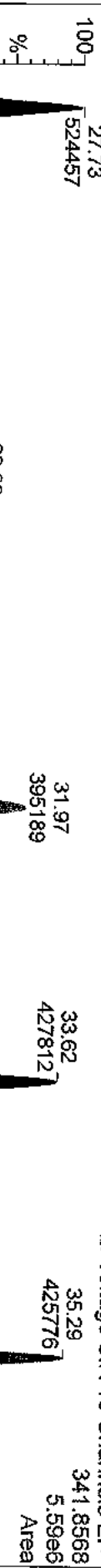
09-Dec-2021

21:25:59

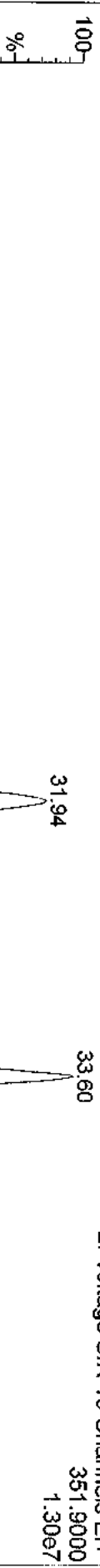
2: Voltage SIR 10 Channels EI+



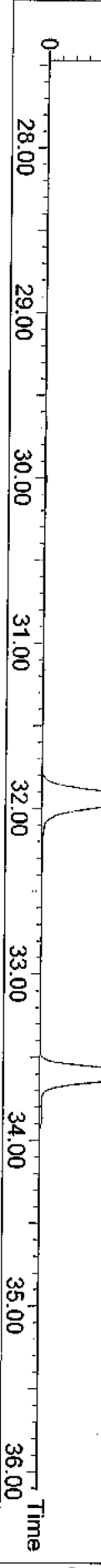
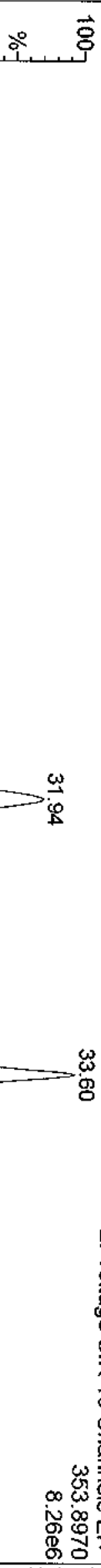
M3211209B01 Sm (SG, 2x2)



M3211209B01 Sm (SG, 2x2)



M3211209B01 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSSTYX\Default.pro\SMPLTDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_BC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

Alt: Totals Penta-Dioxins

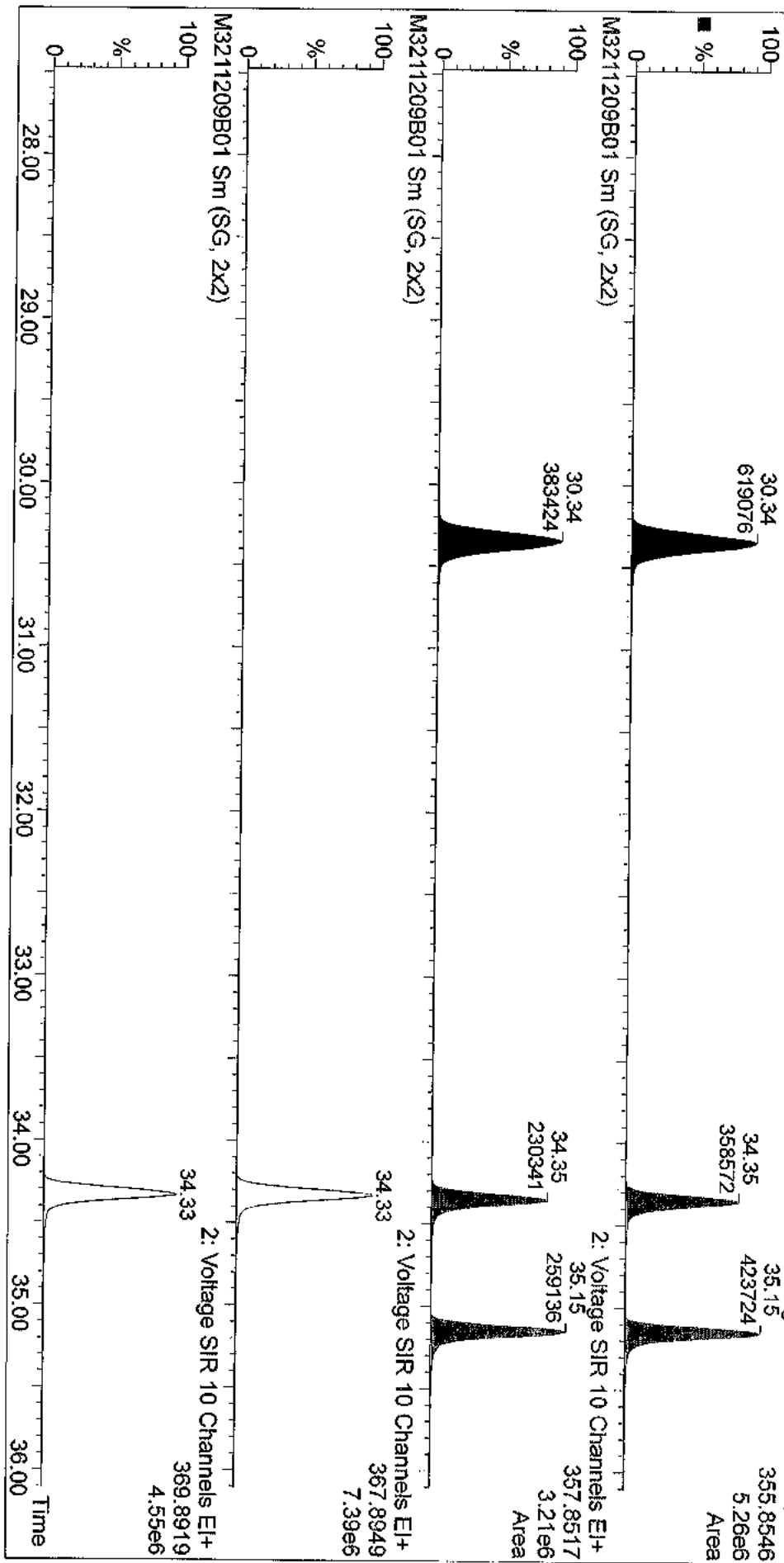
db5_wln_perf/CS3
 Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59



Quantity Sample Report

Sample List: C:\MASSWINX\Default-pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSWINX\Default-pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

42: Hepta DPR

db5_win_perf/CS3
 Lot CS3WT1020

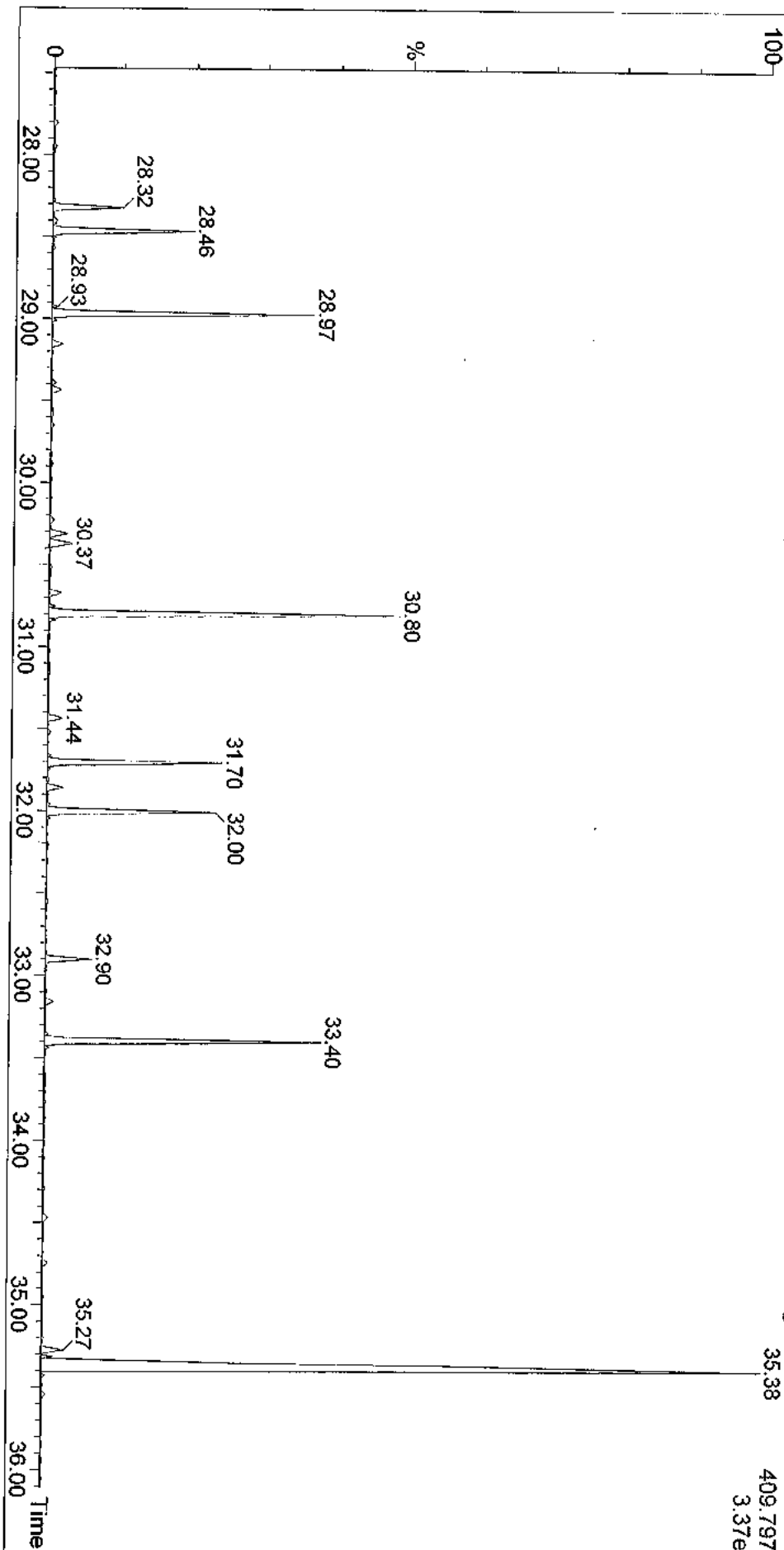
M3211209B01 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59

2: Voltage SIF 10 Channels EI+
 35.38 409.7974 3.37e3



Quantify Sample Report

Sample list: C:\MASSVIEW\Default-pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M321127A_RC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

43: Function 2 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

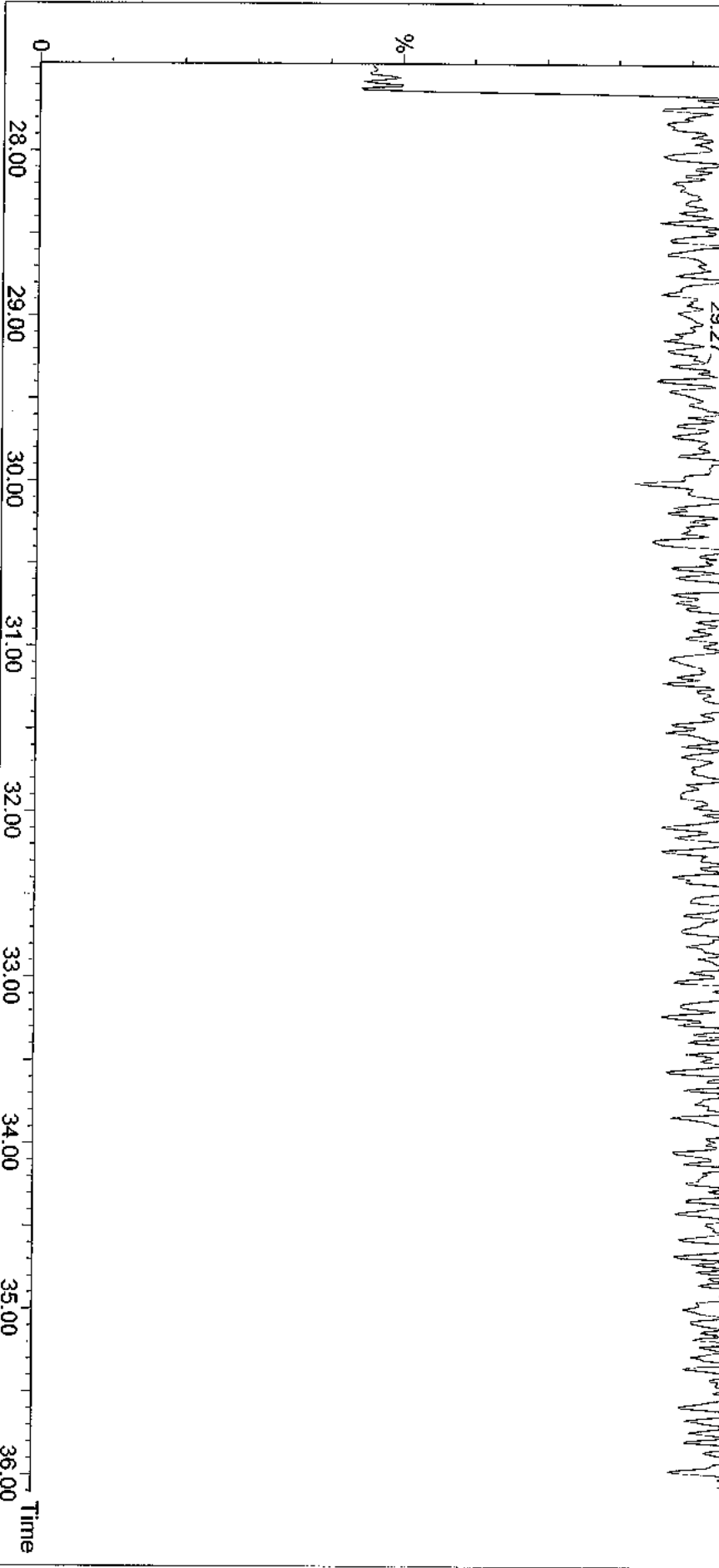
M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 21:25:59

2: Voltage SIR 10 Channels EI+

100 27.71 28.07 28.56 28.77 29.27 29.57 29.87 30.64 30.81 31.01 31.34 31.98 32.44 32.92 33.10 33.42 33.89 34.13 34.61 34.87 35.52 366.9792 7.96e5



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLES\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSDCHEM\Default-pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

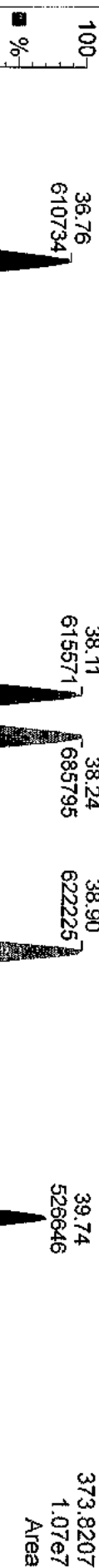
44: Totals Hexa-Fluoride

db5_wln_perf/CS3 Lot CS3WT1020

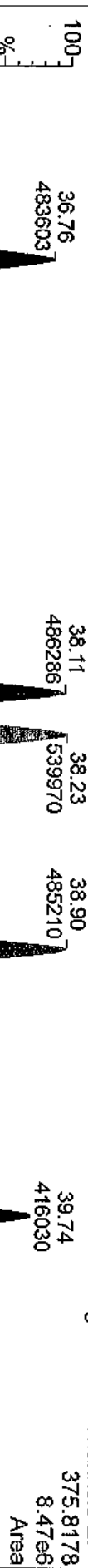
M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

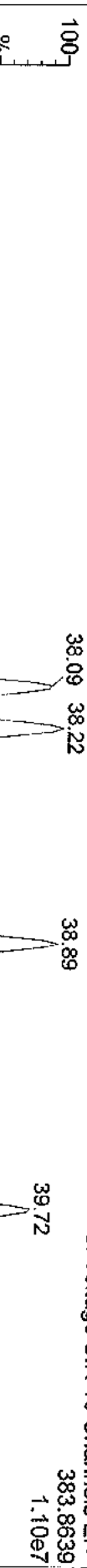
09-Dec-2021
 21:25:59



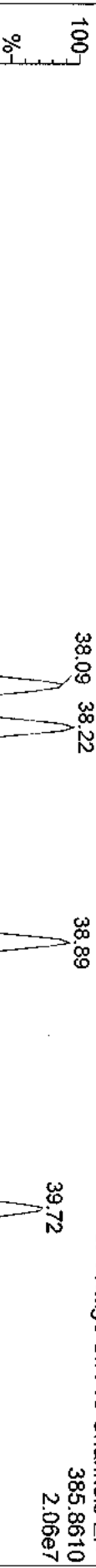
M3211209B01 Sm (SG, 2x2)



M3211209B01 Sm (SG, 2x2)



M3211209B01 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSLIX\Default-Pro\SAMPLES\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLIX\Default-Pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

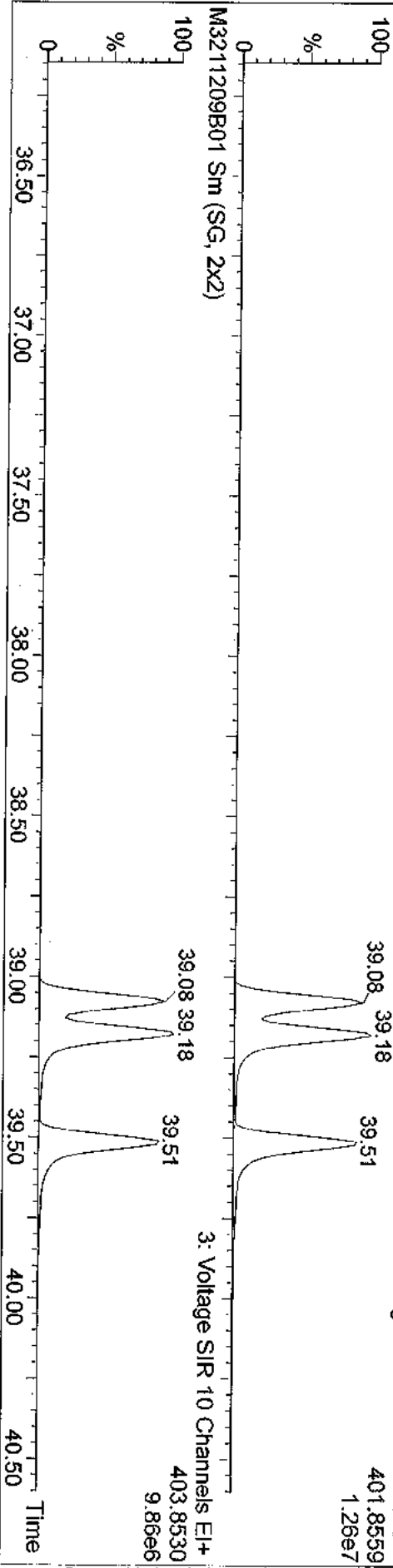
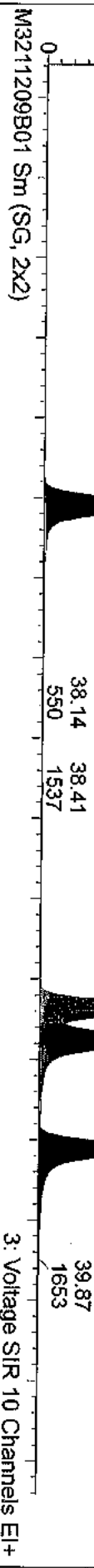
45: Totals Hexa-Dioxins

db5_win_perf/CS3 Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 21:25:59



Quantify Sample Report

Sample List: C:\MSSTRIM\Default-pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSSTRIM\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

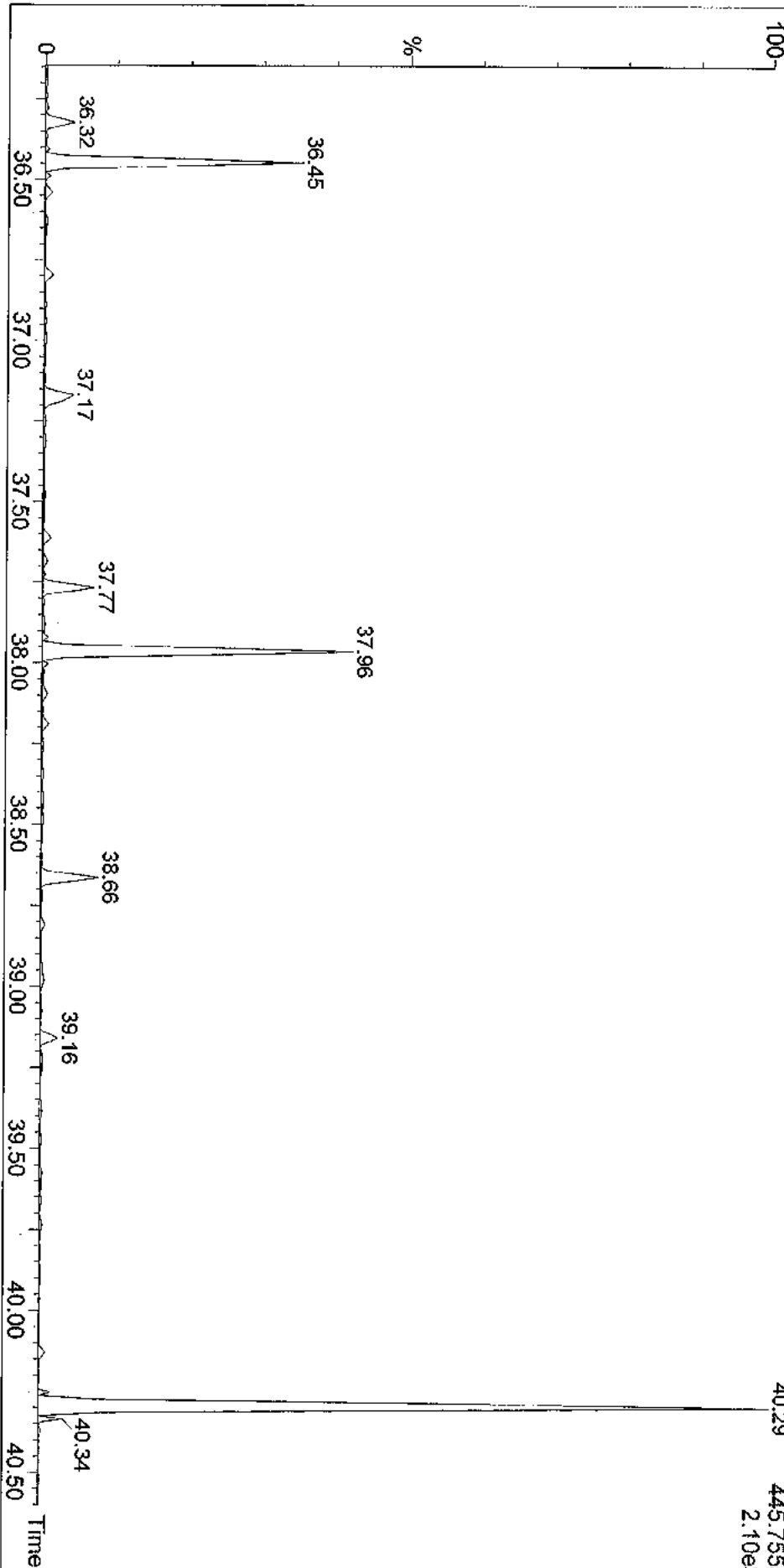
Name: M3211209B01
 Text: db5_win_perf/CS3

45: Octa DPE

db5_win_perf/CS3
 Lot CS3WT1020
 M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021 21:25:59
 3: Voltage SIF 10 Channels EI+
 40.29 445.7555
 2.10e3



Quantity Sample Report

Sample List: C:\MASSL\X\Default.pro\SAMPLE\KDB\M3211209E_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSL\X\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

47: Function 3 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59

3: Voltage SIR 10 Channels EI+

380.9760

5.97e6

36.34 36.63 36.98 37.3437 51 37.78 38.11 38.17 38.43 38.55 38.66 38.92 39.27 39.50 39.76 39.99 40.06 40.34

%

0 36.50 37.00 37.50 38.00 38.50 39.00 39.50 40.00 40.50 Time

Quantify Sample Report

Sample List: C:\MASSLUX\Default-pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLUX\Default-pro\METHODS\M3211127A_FC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

49: Totale Hepta-Purans

db5_wln_perf/CS3
 Lot CS3WT1020

M3211209B01 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021
 21:25:59



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-Pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSDCHEM\Default-Pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

49: Totals Hepta-Dioxins

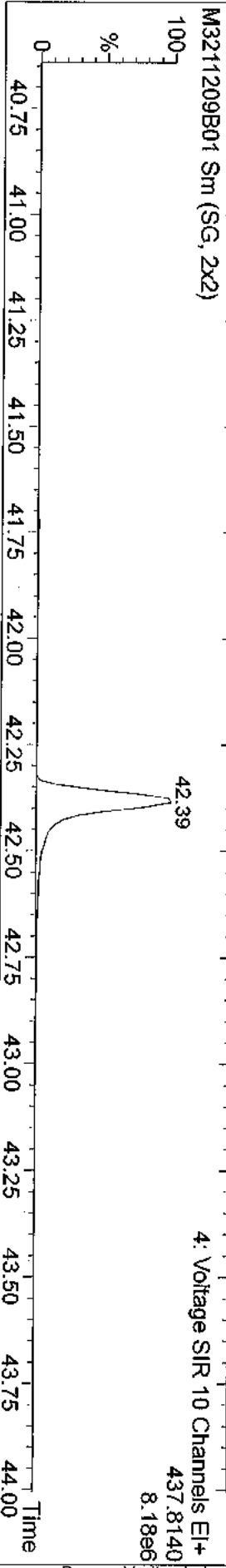
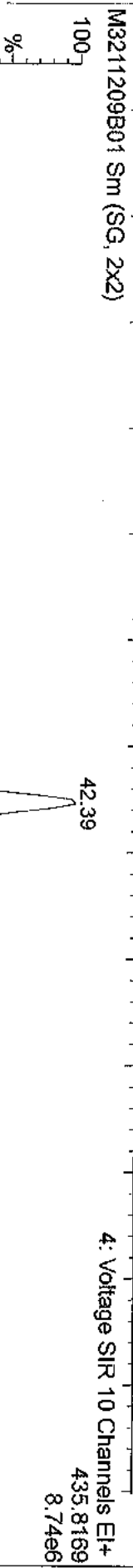
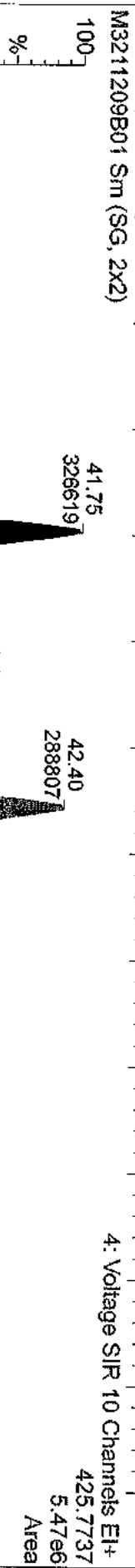
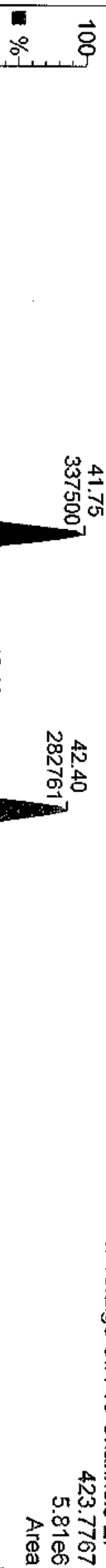
db5_wln_perf/CS3
 Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59



Quantity Sample Report

Sample List: C:\MASSL\X\Default-Pro\8ANFLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSL\X\Default-Pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

50: Nona DPE

db5_wln_perf/CS3
 Lot CS3WT1020

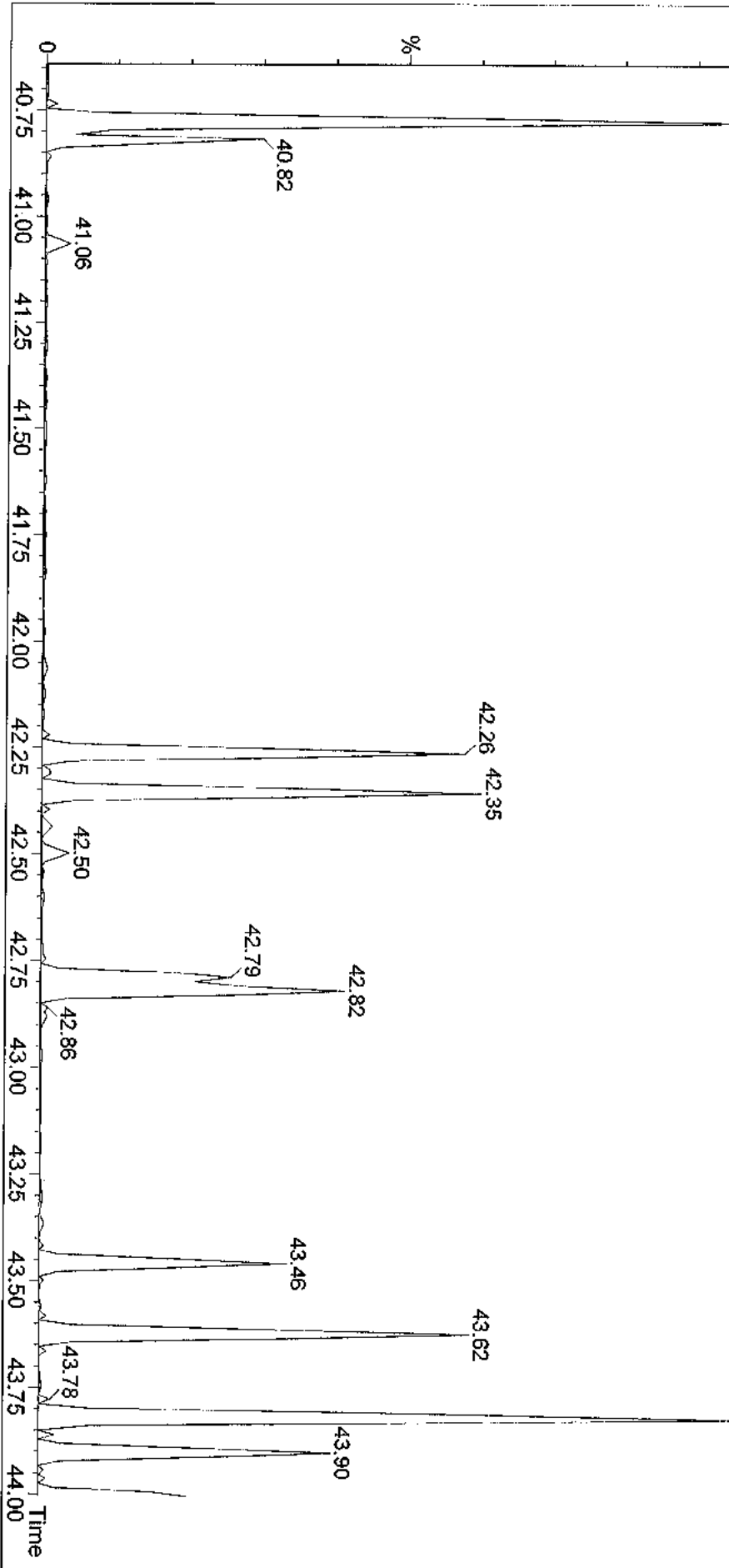
M3211209B01 Sm (SG, 2X2)
 40.78

AutoSpec Ultima - M536

09-Dec-2021
 21:25:59

4: Voltage SIR 10 Channels EI+

43.82 479.7165
 1.94e3



Quantity Sample Report

Sample List: C:\MASSLYNX\Default-pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLYNX\Default-pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_wln_perf/CS3

SI: Function 4 Lockmass

db5_wln_perf/CS3
 Lot CS3WT1020

M3211209B01 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59

4: Voltage SIF 10 Channels EI+

40.84 41.01 41.16 41.30 41.53 41.90 42.17 42.36 42.56 42.73 42.80 43.14 43.22 43.30 43.62 43.78 43.84 430.9728 3.51e6

40.66

40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

10: OCDF

db5_win_perf/CS3

Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59

5: Voltage SIF 8 Channels EI+

441.7428

9.18e6

Area

M3211209B01 Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

443.7398

9.98e6

Area

M3211209B01 Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

469.7780

1.30e7

Area

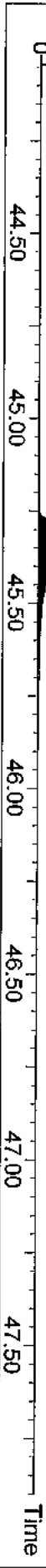
M3211209B01 Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

471.7750

1.42e7

Area



Quantity Sample Report

Sample List: C:\MASSLINTX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLINTX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

17: CDD

db5_win_perf/CS3

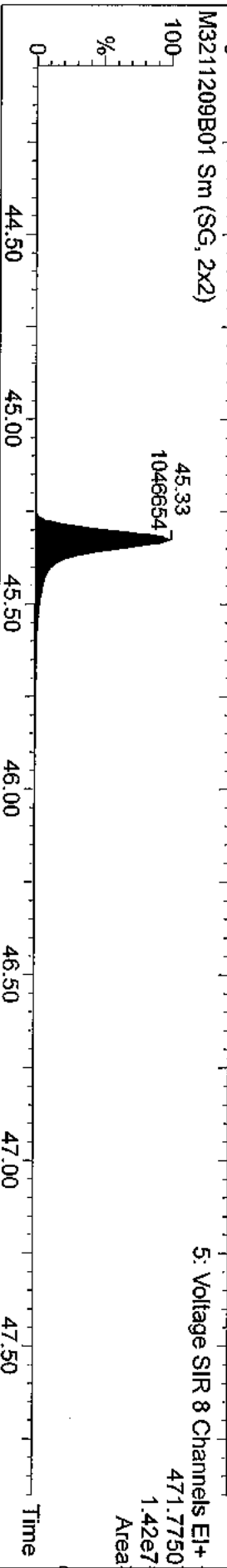
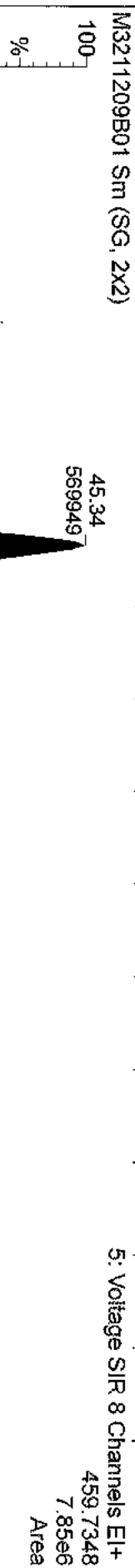
Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

21:25:59



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf//CS3

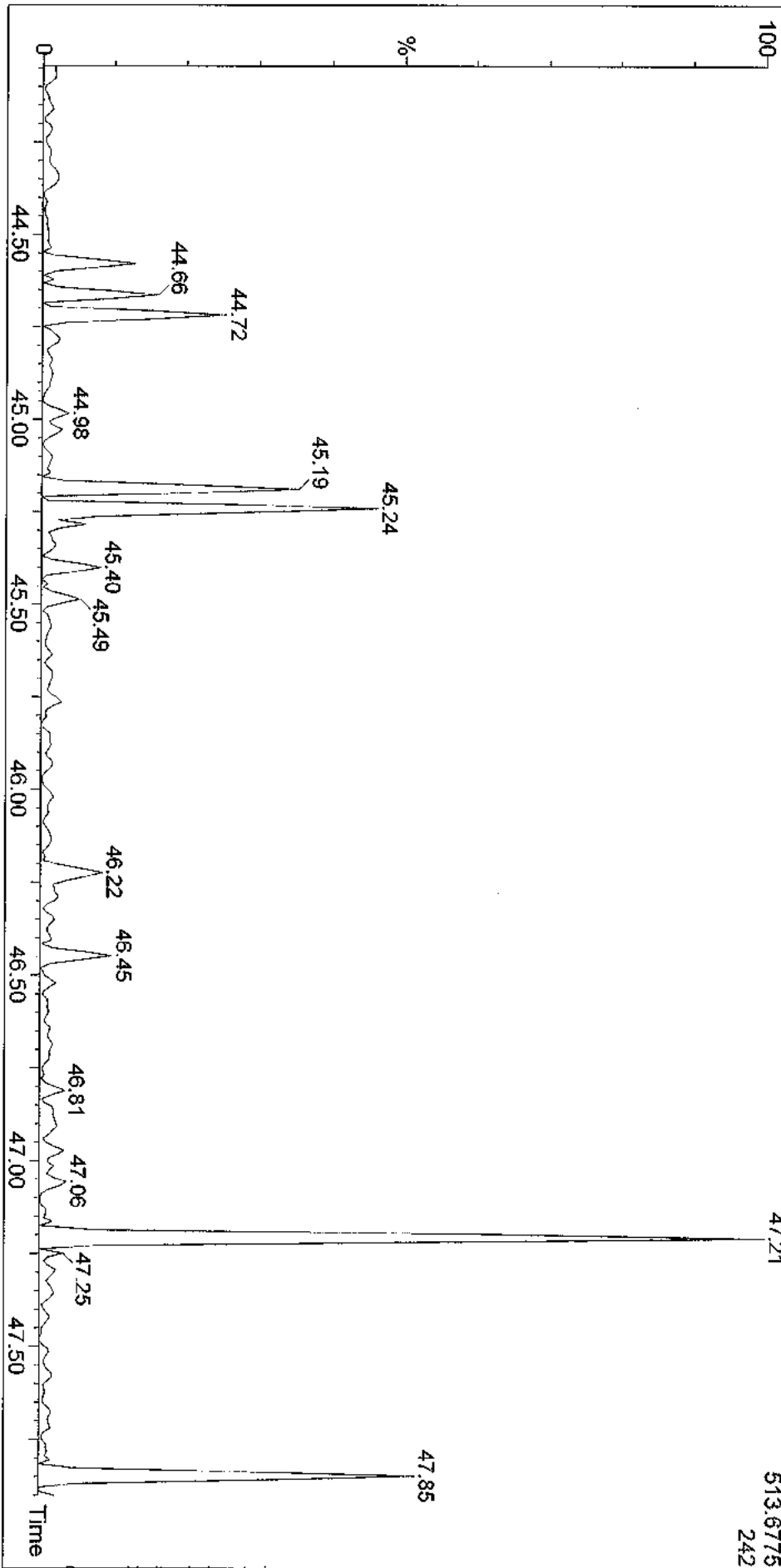
52: Decca DFE

db5_win_perf/CS3
 Lot CS3WT1020
 M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 21:25:59

5: Voltage S/R 8 Channels El+
 513.6775
 242



Quantify Sample Report

Sample List: C:\MASSVIEW\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSVIEW\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B01
 Text: db5_win_perf/CS3

S3: Function 5 Lockmass

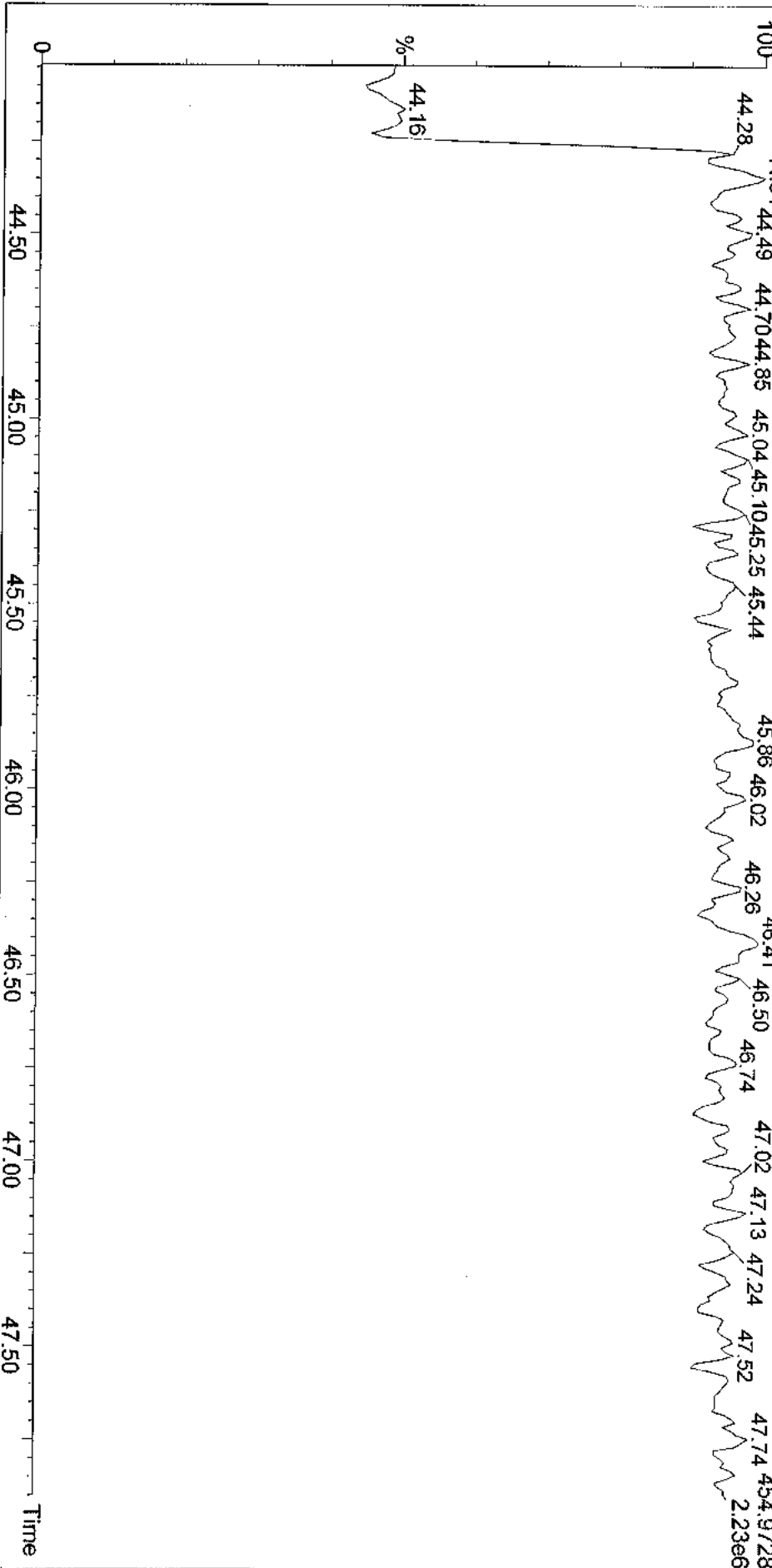
db5_win_perf/CS3
 Lot CS3WT1020

M3211209B01 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 21:25:59

5: Voltage S/R 8 Channels EI+



Method 1613 VER
ID: CS3_1613_01
FILE: M3211209B15
EPA Method 1613

	Conc (ng/mL)	Test	VER Lo	VER Hi
2,3,7,8-Cl4-Dibenzofuran	11	OK	8.4	12
1,2,3,7,8-Cl5-Dibenzofuran	56	OK	41	60
2,3,4,7,8-Cl5-Dibenzofuran	54	OK	41	61
1,2,3,4,7,8-Cl6-Dibenzofuran	53	OK	45	56
1,2,3,6,7,8-Cl6-Dibenzofuran	51	OK	44	57
2,3,4,6,7,8-Cl6-Dibenzofuran	52	OK	44	57
1,2,3,7,8,9-Cl6-Dibenzofuran	53	OK	45	56
1,2,3,4,6,7,8-Cl7-Dibenzofuran	55	OK	45	55
1,2,3,4,7,8,9-Cl7-Dibenzofuran	53	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	111	OK	63	159
2,3,7,8-Cl4-Dibenzo-p-dioxin	10	OK	7.8	12.9
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	53	OK	39	65
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	53	OK	39	64
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	51	OK	39	64
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	52	OK	41	61
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	54	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	103	OK	79	126

SURROGATE RECOVERY

2,3,7,8-T4CDF-13C12	99	OK	71	140
1,2,3,7,8-P5CDF-13C12	109	OK	76	130
2,3,4,7,8-P5CDF-13C12	112	OK	77	130
1,2,3,4,7,8-H6CDF-13C12	106	OK	76	131
1,2,3,6,7,8-H6CDF-13C12	114	OK	70	143
2,3,4,6,7,8-H6CDF-13C12	104	OK	73	137
1,2,3,7,8,9-H6CDF-13C12	99	OK	74	135
1,2,3,4,6,7,8-H7CDF-13C12	97	OK	78	129
1,2,3,4,7,8,9-H7CDF-13C12	99	OK	77	129
2,3,7,8-T4CDD-13C12	102	OK	82	121
1,2,3,7,8-P5CDD-13C12	112	OK	62	160
1,2,3,4,7,8-H6CDD-13C12	99	OK	85	117
1,2,3,6,7,8-H6CDD-13C12	109	OK	85	118
1,2,3,4,6,7,8-H7CDD-13C12	91	OK	72	138
OCDD-13C12	197	OK	96	415
2,3,7,8-T4CDD-37Cl4	9.4	OK	7.9	12.7

Quantity Sample Summary Report

Sample List: C:\MSL\INX\Default-pro\SAMPLEDB\M3211209B_1613
 Last Modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSL\INX\Default-pro\METHODS\PERA 1613B_M3211127A
 Last modified: Mon Nov 29 14:59:47 2021
 Job Code:

Printed: Sat Dec 11 09:05:13 2021

Sample Name: M3211209B15																Sample ID: Lot CS3WT1020	
#	Name	RT	Area	Sec.Area	Ads.Resp	Ion	Ratio	RFIag	Response	Flags	pg	Rev	%Rec	T#	RRF		
1	2,3,7,8-TCDF	24.593	140188	181012	321200	0.77	YES	YES	10.946	bd	11.266	13	113	18	1.095		
2	1,2,3,7,8-TCDF	31.941	808519	500400	1308918	1.62	YES	YES	55.090	bd	56.245	12	112	19	1.102		
3	2,3,4,7,8-TCDF	33.602	857765	539879	1397644	1.59	YES	YES	58.988	bd	54.129	8	108	20	1.180		
4	1,2,3,4,7,8-TCDF	38.086	767375	616295	1363670	1.25	YES	YES	61.960	bd	53.438	7	107	21	1.239		
5	1,2,3,6,7,8-TCDF	38.221	803219	642633	1445852	1.25	YES	YES	56.256	db	51.392	3	103	22	1.125		
6	2,3,4,6,7,8-TCDF	38.891	758034	597972	1356006	1.27	YES	YES	61.556	bd	52.317	5	105	23	1.231		
7	1,2,3,7,8,9-TCDF	39.716	634526	503498	1138024	1.26	YES	YES	58.114	bd	52.960	6	106	24	1.162		
8	1,2,3,4,6,7,8-TCDF	41.437	665506	620154	1285660	1.07	YES	YES	66.569	bd	55.090	10	110	25	1.331		
9	1,2,3,4,7,8,9-TCDF	42.736	530197	499232	1029428	1.06	YES	YES	62.340	bd	52.964	6	106	26	1.247		
10	OCDF	45.444	771412	842310	1613722	0.80	YES	YES	137.534	bd	110.923	11	111	32	1.375		
11	2,3,7,8-TCDD	25.658	91343	114040	205383	0.92	YES	YES	12.644	dd	10.189	2	102	27	1.264		
12	1,2,3,7,8-TCDD	34.324	463521	284276	747798	1.63	YES	YES	58.633	bd	52.526	5	105	28	1.173		
13	1,2,3,4,7,8-TCDD	39.077	471444	367180	838624	1.28	YES	YES	59.116	bd	53.188	5	106	29	1.182		
14	1,2,3,6,7,8-TCDD	39.180	519534	406358	925892	1.28	YES	YES	56.598	db	50.550	1	101	30	1.132		
15	1,2,3,7,8,9-TCDD	39.510	504145	376013	880158	1.34	YES	YES	53.802	bd	49.203	-2	98	30	1.076		
16	1,2,3,4,6,7,8-TCDD	42.386	421960	277162	799122	1.12	YES	YES	58.909	bd	54.306	3	109	31	1.178		
17	OCDD	45.326	586640	687920	1274560	0.85	YES	YES	108.628	bd	103.012	3	103	32	1.086		
18	13C-2,3,7,8-TCDF	24.571	1318296	1616178	2934474	0.82	YES	YES	172.602	bd	99.134	-1	99	33	2.126		
19	13C-1,2,3,7,8-TCDF	31.910	1480152	895824	2375976	1.65	YES	YES	172.139	bd	109.130	9	109	33	1.721		
20	13C-2,3,4,7,8-TCDF	33.571	1474467	894922	2233364	0.53	YES	YES	171.662	bd	111.879	6	112	33	1.717		
21	13C-1,2,3,4,7,8-TCDF	38.076	772092	1461071	2570135	0.53	YES	YES	141.692	bd	105.314	12	112	33	1.717		
22	13C-2,3,4,6,7,8-TCDF	38.200	889849	1680285	2202886	0.53	YES	YES	163.072	dd	113.632	14	114	34	1.617		
23	13C-1,2,3,7,8,9-TCDF	39.706	676891	1281386	1958286	0.53	YES	YES	139.771	bd	104.432	4	104	34	1.631		
24	13C-1,2,3,4,6,7,8-TCDF	41.426	609987	1321385	1931322	0.46	YES	YES	124.250	bd	99.318	-1	99	34	1.243		
25	13C-1,2,3,4,6,7,8-TCDF	42.726	504851	1146492	1651323	0.44	YES	YES	104.775	bd	96.766	-3	97	34	1.225		
26	13C-2,3,7,8-TCDD	25.625	725962	898379	1624340	0.81	YES	YES	117.683	bd	98.820	-1	99	34	1.048		
27	13C-1,2,3,7,8-TCDD	34.303	784869	490521	1275390	1.60	YES	YES	92.402	bd	101.535	2	102	33	1.177		
28	13C-1,2,3,4,7,8-TCDD	39.067	801723	616880	1418603	1.30	YES	YES	90.009	bd	98.820	12	112	33	0.924		
29	13C-1,2,3,4,7,8-TCDD	39.159	930367	705551	1635529	1.32	YES	YES	103.797	bd	109.059	9	109	34	0.900		
30	13C-1,2,3,6,7,8-TCDD	42.375	700230	656299	1356239	1.07	YES	YES	86.070	bd	91.414	-1	99	34	1.038		
31	13C-1,2,3,4,6,7,8-TCDD	45.315	1160245	1186404	2346649	0.98	YES	YES	148.892	bd	197.317	-9	91	34	0.861		
32	13C-OCDD	25.340	627567	752698	1380265	0.83	YES	YES	1576071.563	bd	29.778	-1	99	34	0.744		
33	13C-1,2,3,7,8,9-TCDD	627567	697344	156189	328379	1.26	YES	YES	23.791	bd	9.449	-70	30	0	13802.647		
34	13C-1,2,3,7,8,9-TCDD	627567	697344	156189	328379	1.26	YES	YES	23.791	bd	9.449	-70	30	0	15760.716		
35	C13-2,3,7,8-TCDD	25.658	164189	164189	328379	1.00	YES	YES	23.791	bd	9.449	-6	94	33	2.379		
36	Totals Tetra-Furans	-	0	0	0	-	-	-	-	-	34.998	-	-	18	-		
37	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	-	48.102	-	-	27	-		
38	Totals Tetra-Furans	-	0	0	0	-	-	-	-	-	243.253	-	-	0	-		
39	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	-	203.075	-	-	28	-		
40	Totals Tetra-Furans	-	0	0	0	-	-	-	-	-	267.031	-	-	0	-		
41	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	-	205.980	-	-	30	-		
42	Totals Tetra-Furans	-	0	0	0	-	-	-	-	-	108.246	-	-	0	-		
43	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	-	116.826	-	-	31	-		

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Name: M3211209B15

Text: db5_wm_perz/css3

36: Totals Tetra-Nucleos

STORY

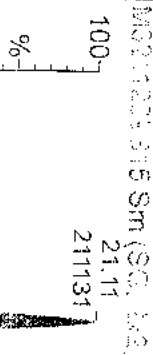
2000

100



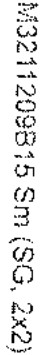
24.50	24.94
140188	334
23.33	24.02
876	963
1275	

27.19 2.0520
130112 Area

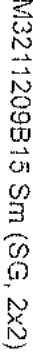


23.30	23.64	24.01	24.91
1016	1905	1295	370

505.8937	
27.19	3.0626
163223	Area



24.57
315.9419
1.55e7



1: Voltage S/R 11 Channels E/+
317.9389
1.96e7
24.57

Job Code: 44102
 Date: 11/09/2001

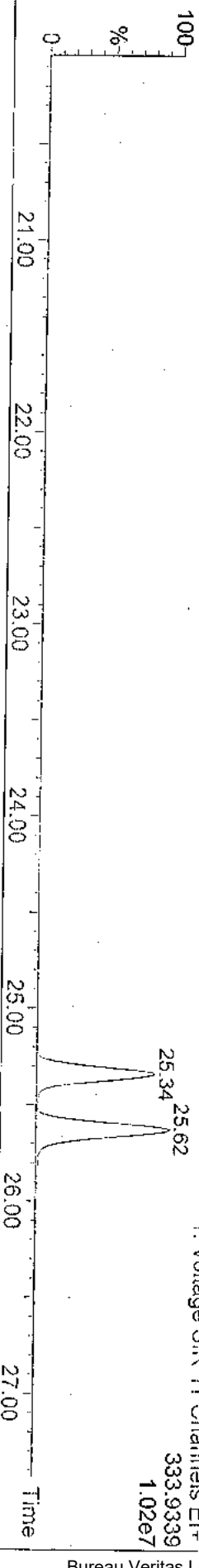
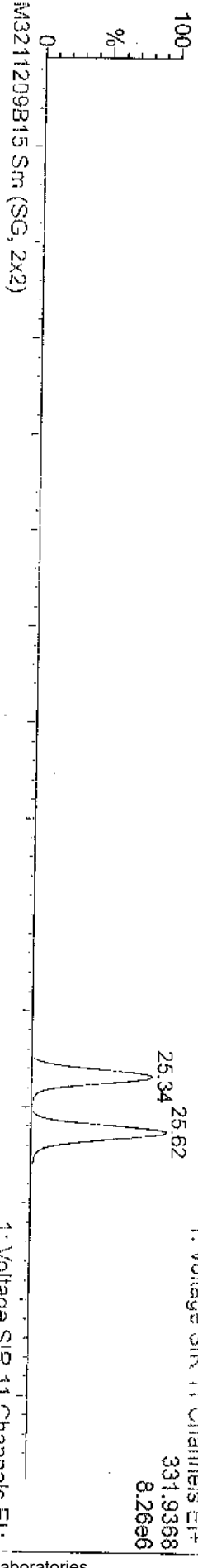
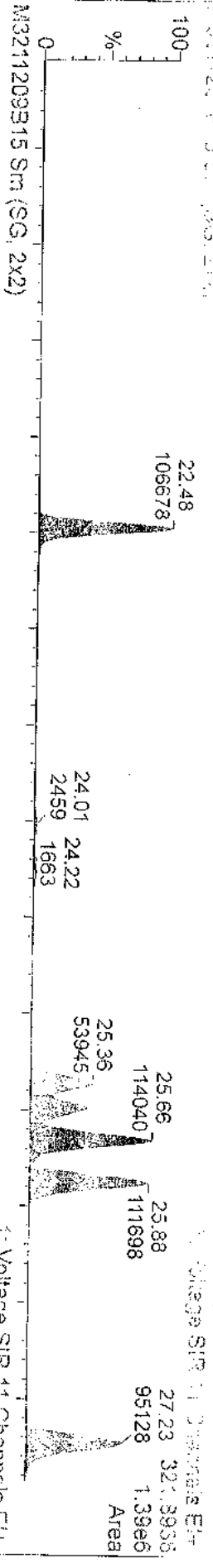
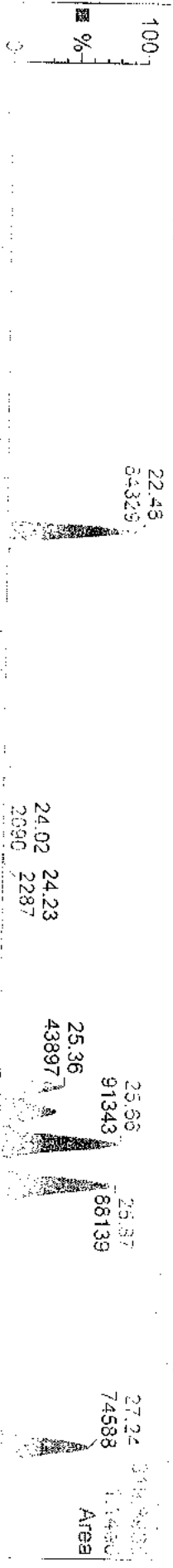
Name: M3211209315
 Text: GDS_win_perf/CS3

37: Totals: Tetra-Dioxins

25.66 91343
 27.22 74588
 29.22 11430

25.66 91343
 27.22 74588
 29.22 11430

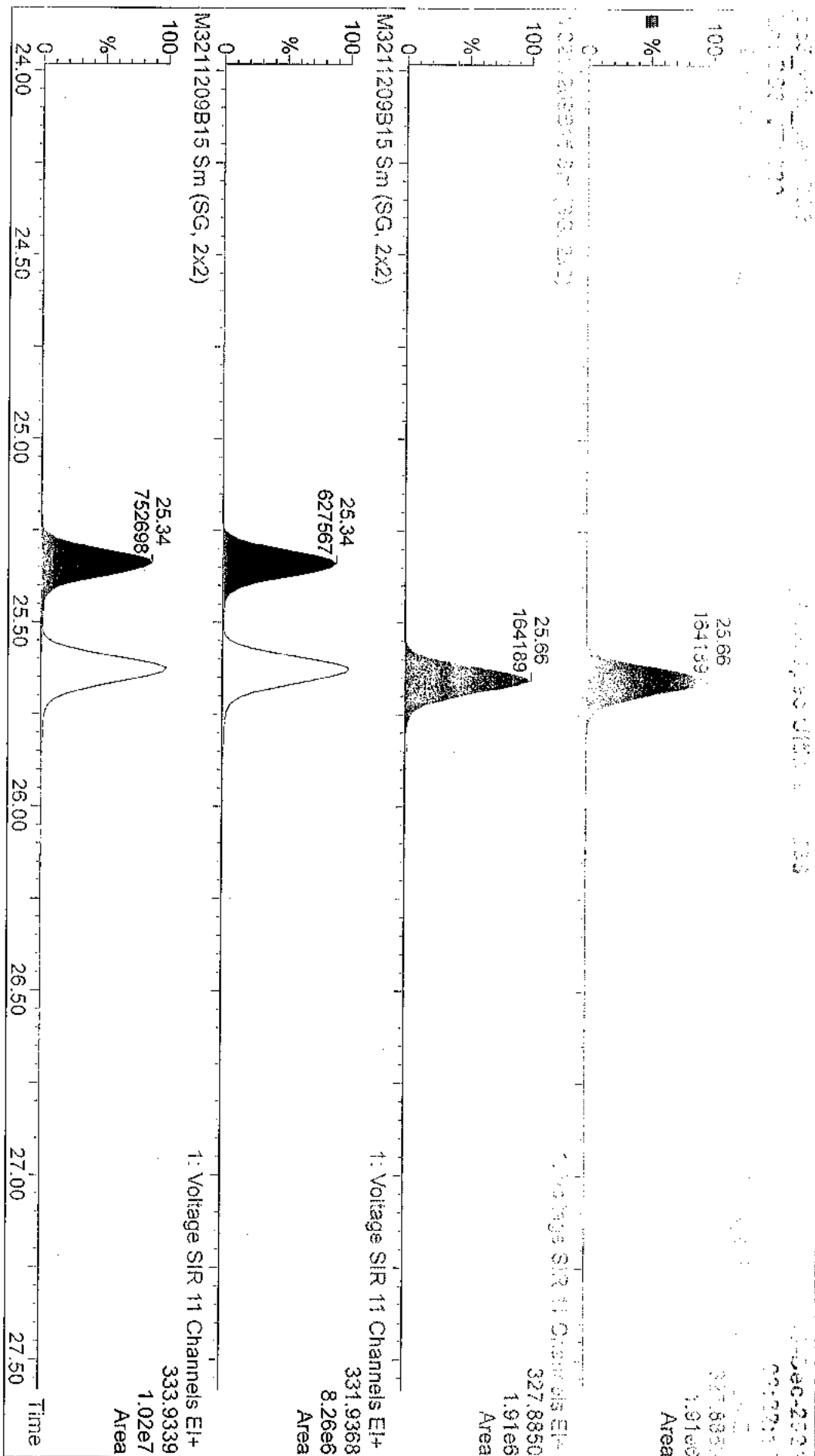
25.66 91343
 27.22 74588
 29.22 11430



Sub Code: 1

Name: M3211209B15
Text: db5_wla_perf/CS3

35: C137-2,3,7,9, TODD



Use Code:

Sample ID: 12105135 000

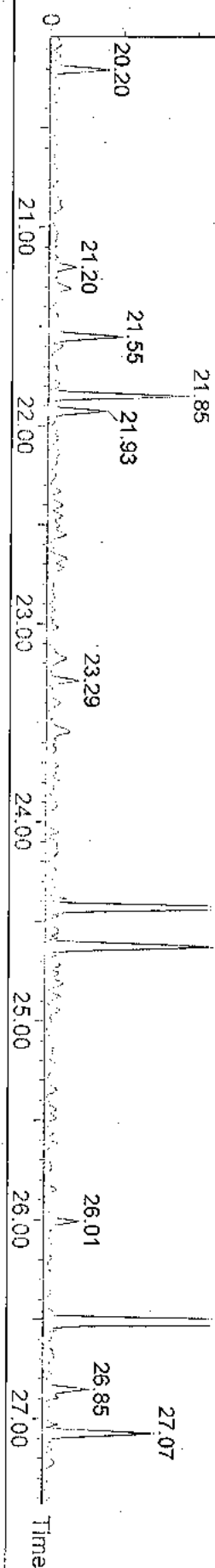
Name: M3211209B15
Text: db5_wlf_perf/CS3

39: Hexa DPs

100

26.51

26.51
26.77

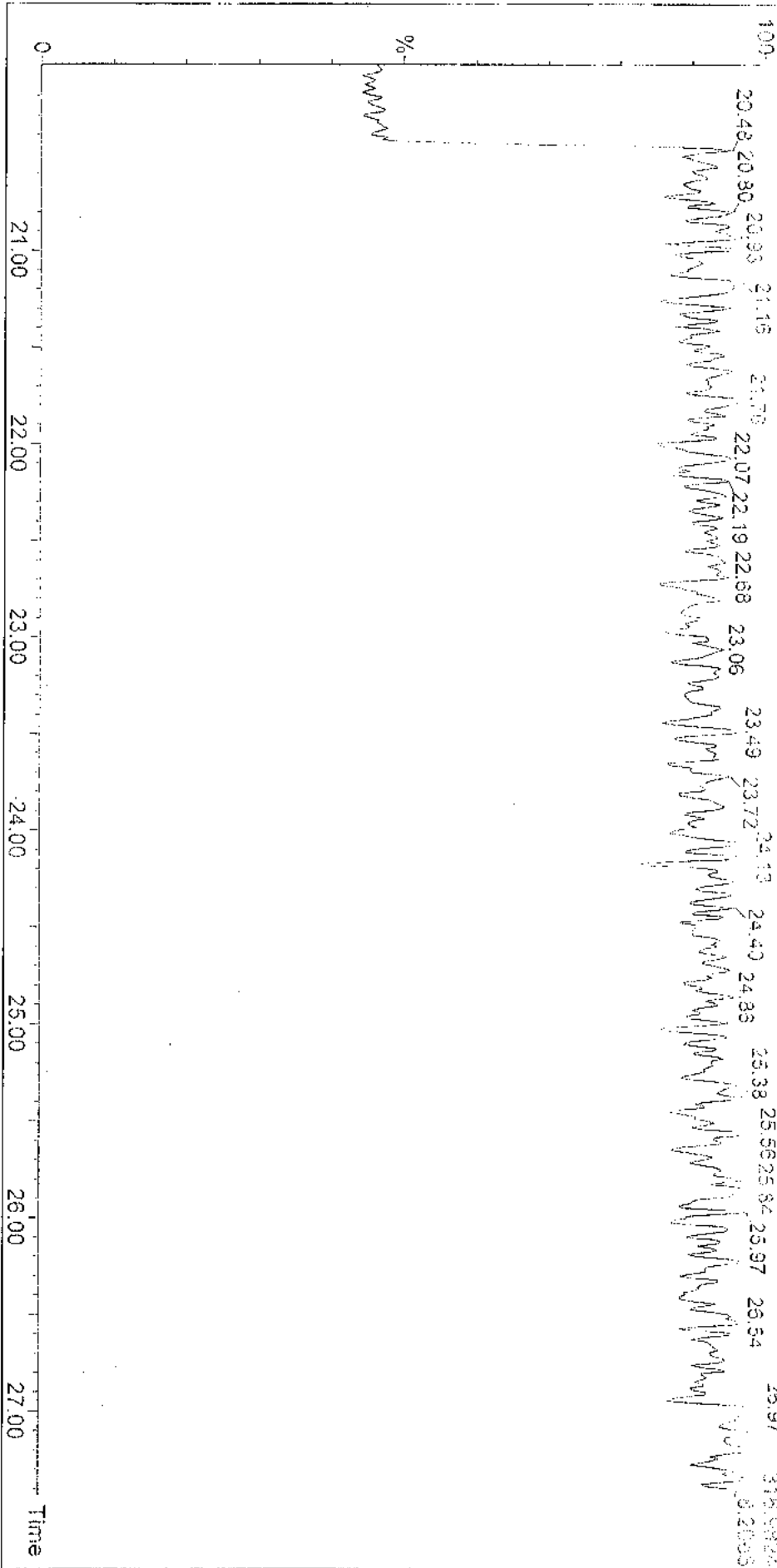


Test
Job Code:

Printed

Name: M3211209R15
Text: db5_win_pact/CS3

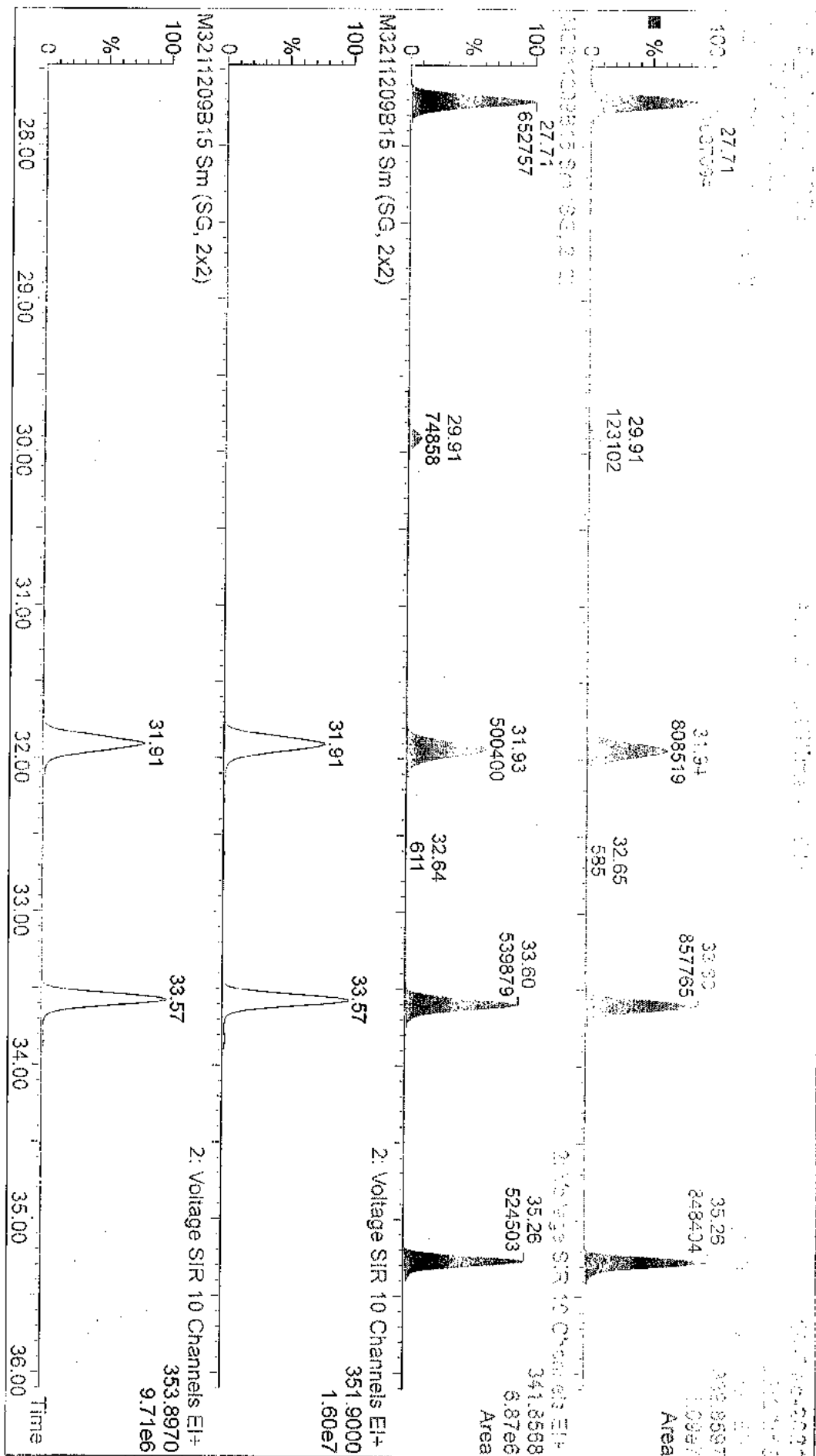
39: Function 1 Lockmass



11 05: 53 PM 4/2/2011

Name: M3211209B15
Text: 6b5_wid_perf/CS3

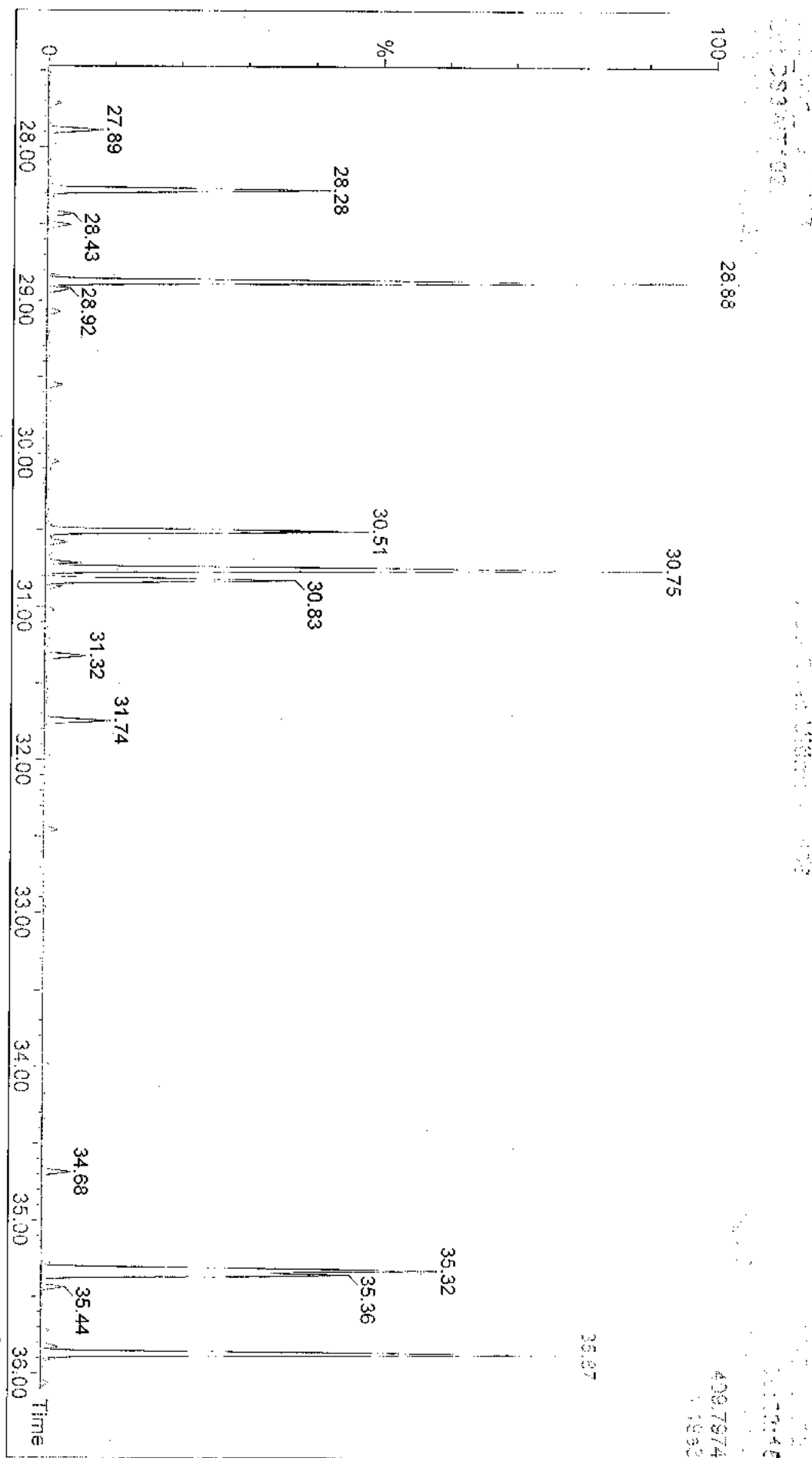
45: Total's Penta-Furans



File Name: 11-29-06-11-0001
Sample Name: 11-29-06-11-0001

Name: M32109815
Text: db5_wil_perf/CS3

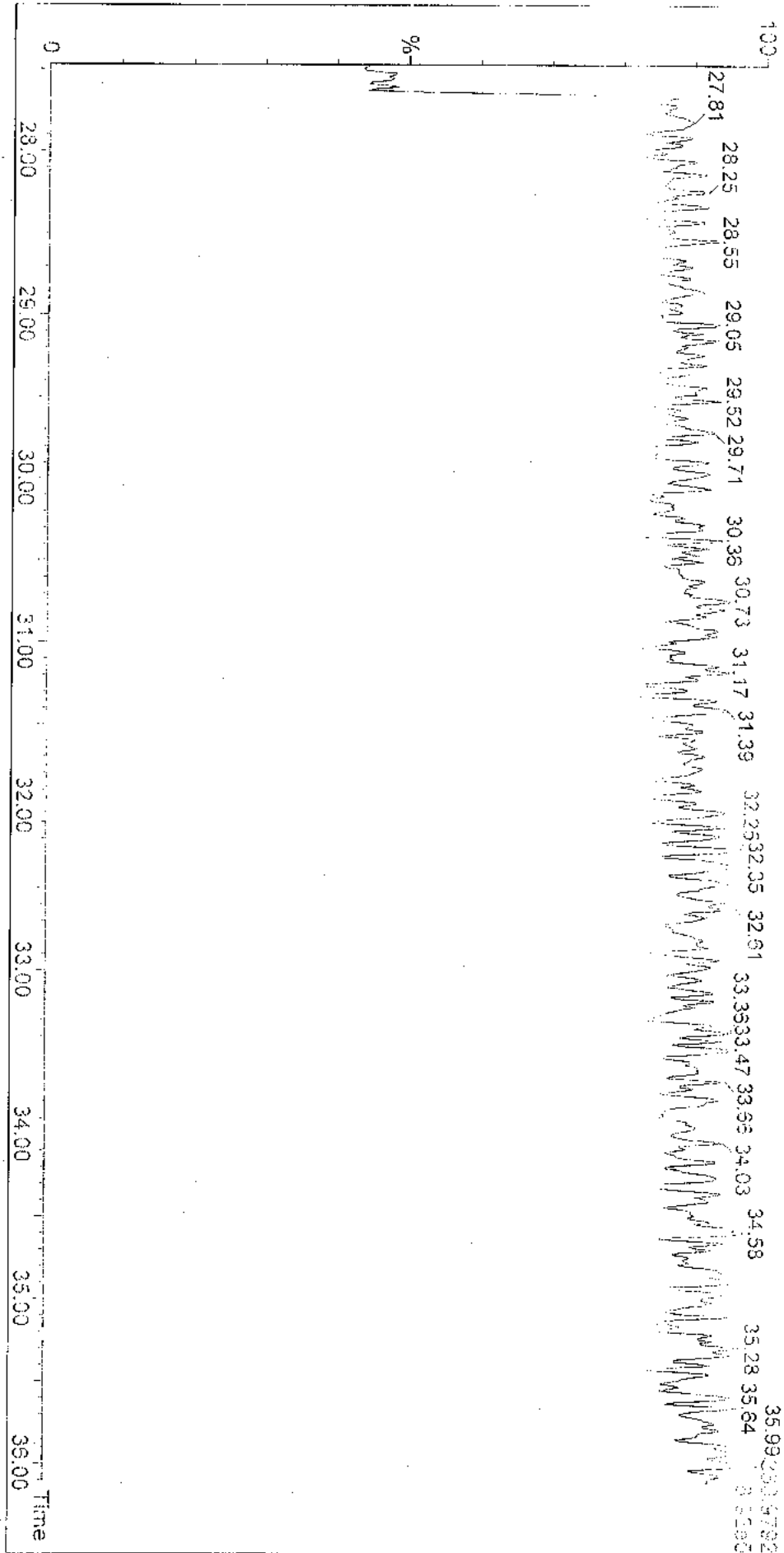
42: Hepta DB



Case Name: M3211098-5
Text: db5_wld_perf/CS3

43: Function 2 Lockmass

27.81 28.25 28.55 29.05 29.52 29.71 30.36 30.73 31.17 31.39 32.25 32.35 32.61 33.36 33.47 33.66 34.03 34.58 35.28 35.64 35.99

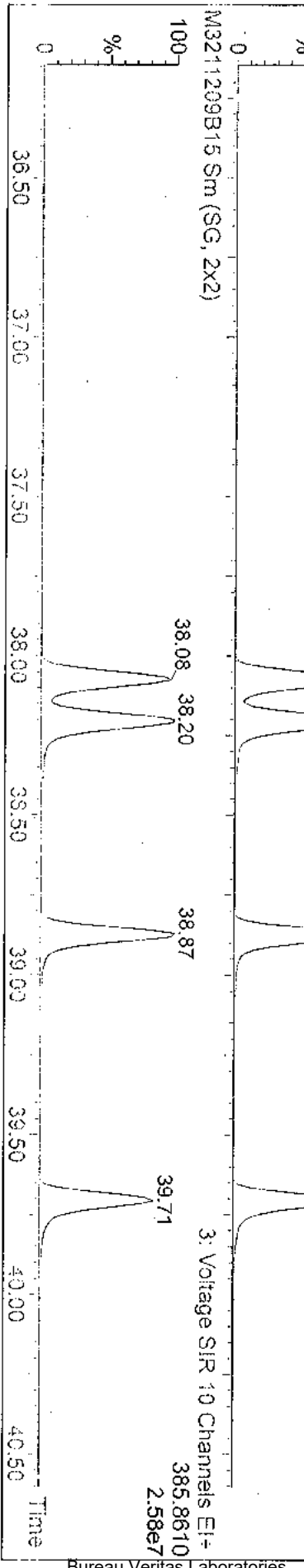
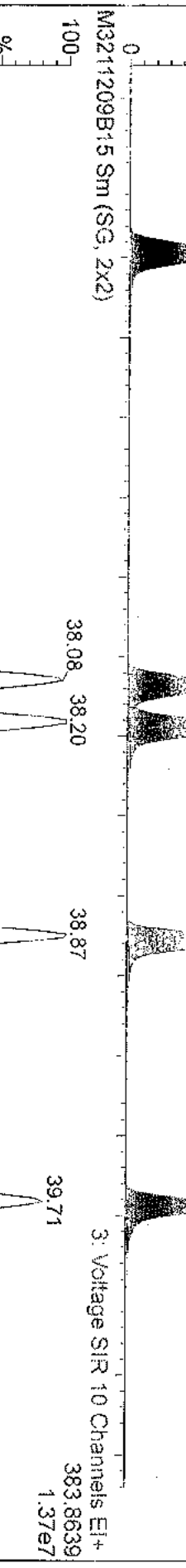
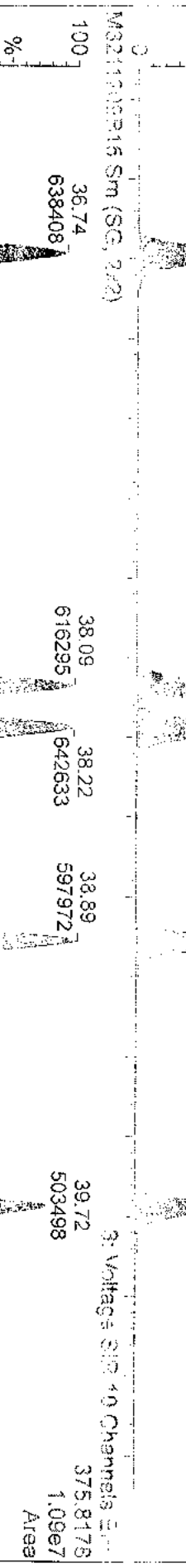
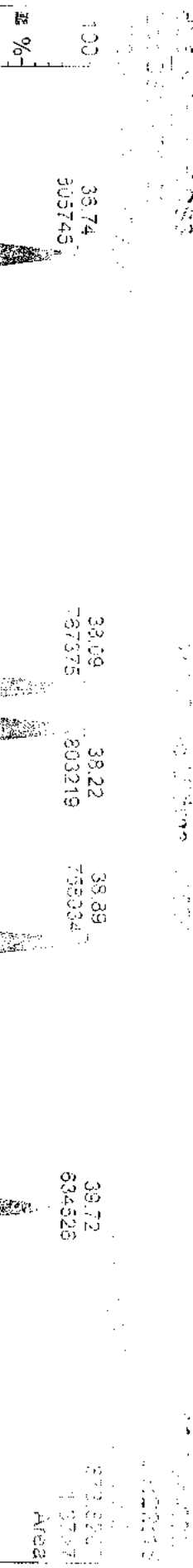


TPI+
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 Code:

Printed: Sat Aug 11 09:11:11 2006

Name: M3211209B15
 Text: db5_wln_perf/CS3

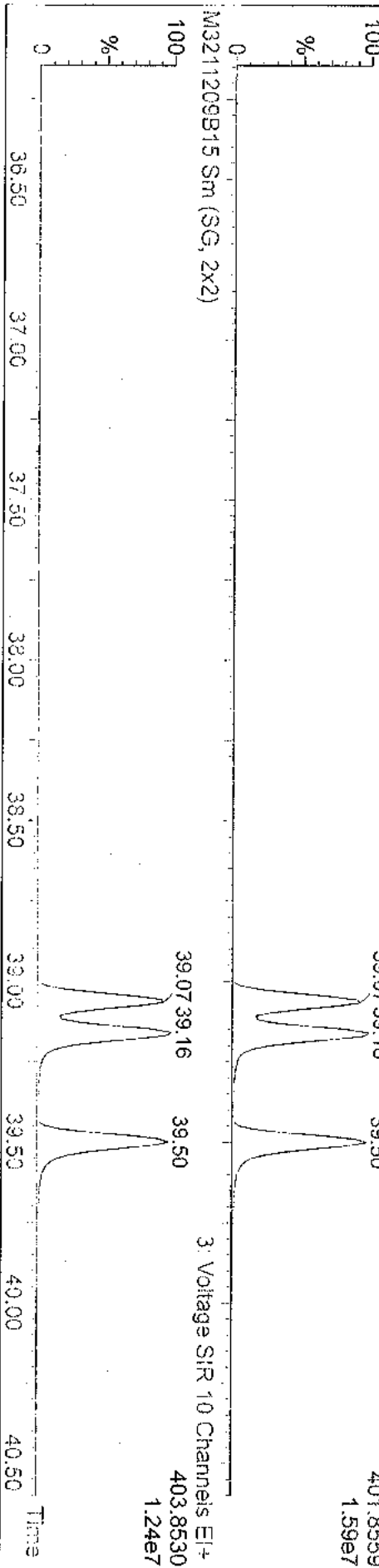
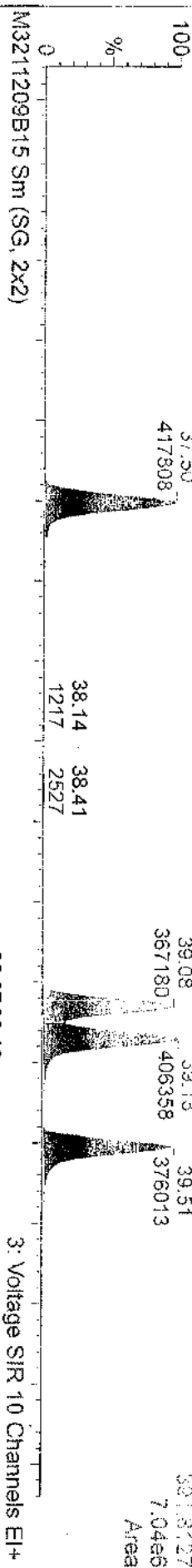
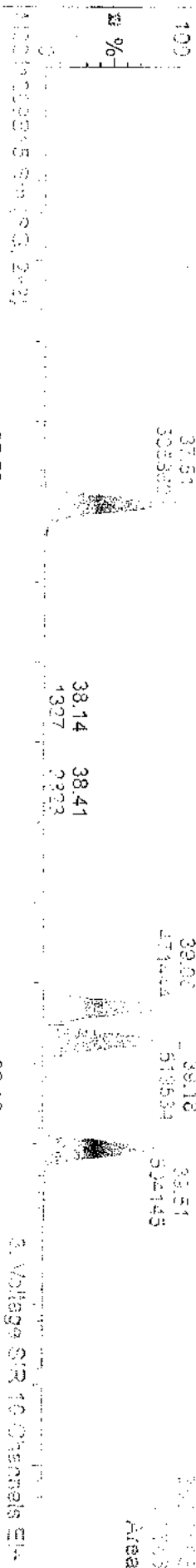
44: Total: Hexa-Furans



Name: M3211209315
 Text: db5_wln_perf/CS3

451: Total: Hexa-Dioxins

CS3W



Printed: Sat Dec 11 09:15:15 2021

Name: M31109315
Text: db5_wil_perf/CS3

461.0000.DPS

09:20:00

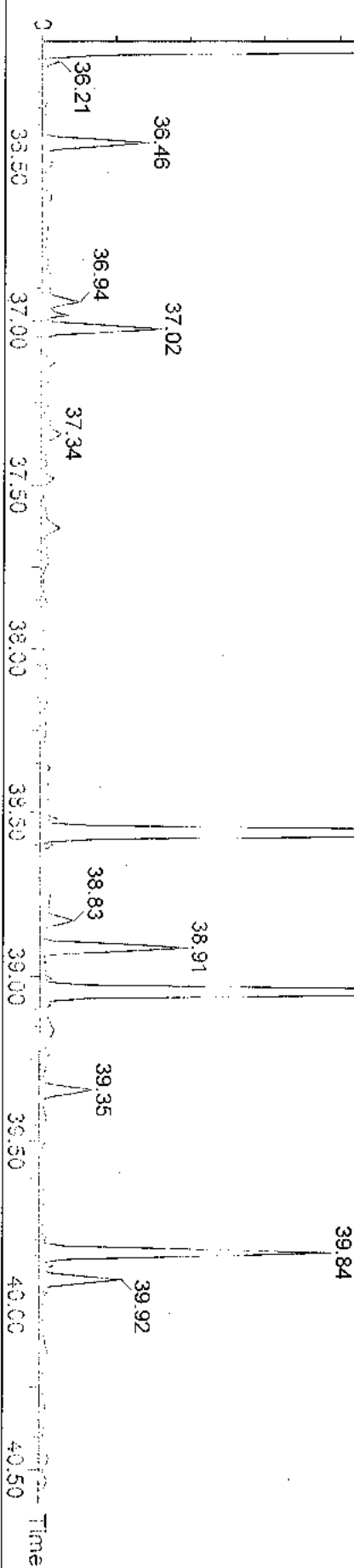
09:20:00

100%

00.55

00.05

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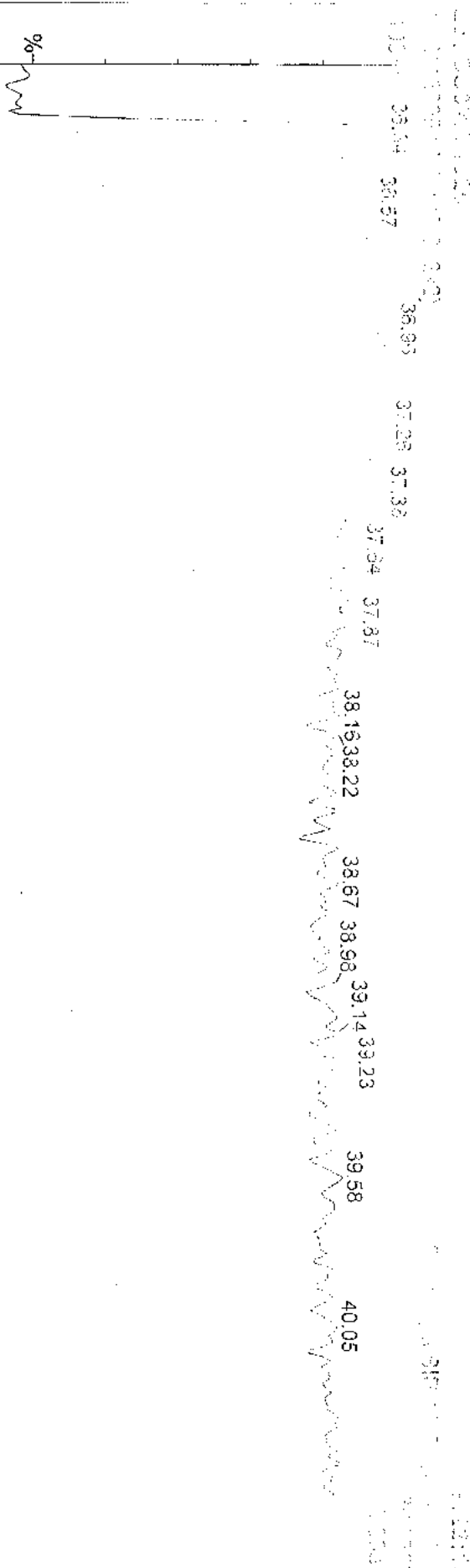


Run Date: 11/09/05 11:05:35 AM
Run Time: 11:05:35 AM

Name: M3112096-5
Text: db5_wm_perf/CS3

47: Function 3 LockMass

36.83 36.87 37.28 37.32 37.84 37.87 38.16 38.22 38.67 38.98 39.14 39.23 39.58 40.05



36.83 36.87 37.28 37.32 37.84 37.87 38.16 38.22 38.67 38.98 39.14 39.23 39.58 40.05

Date: 11/11/2021

Printed: 11/11/2021 10:00:00 AM

Name: M3211209B15

Text: db5_wm_perf/093

48: Total: Hepta-Fluorans

305 Min: 0.000000

1.000000

AutoScale: 1000000 - 1000000

40: 0.000000

41.44
635506

42.74
500197

41.67
512

M3211209B15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.44
620154

42.74
499232

41.66 41.81
773 1303

409.7783
1.2467
Area

M3211209B15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.43

42.73

417.8253
1.19e7

M3211209B15 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.43

42.73

419.8220
2.60e7

40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

Job Code:

Received: 11/09/07 11:00 AM

Name: M3211209B15
Text: db5_wm_perf/CS3

43: Totals, Hepta-Dioxins
db5_wm_perf/CS3
00:CS04714023

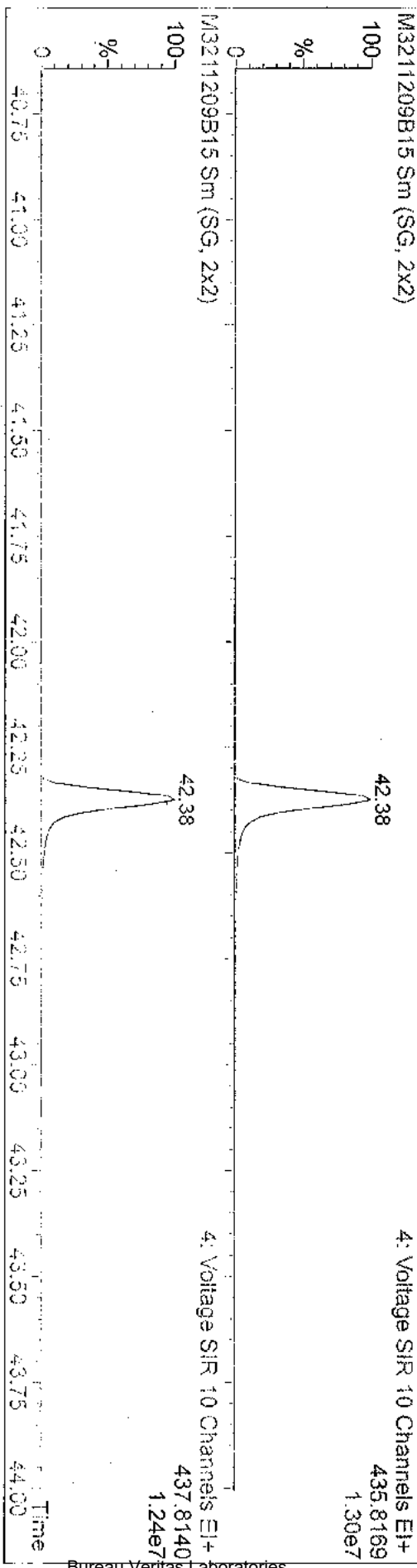
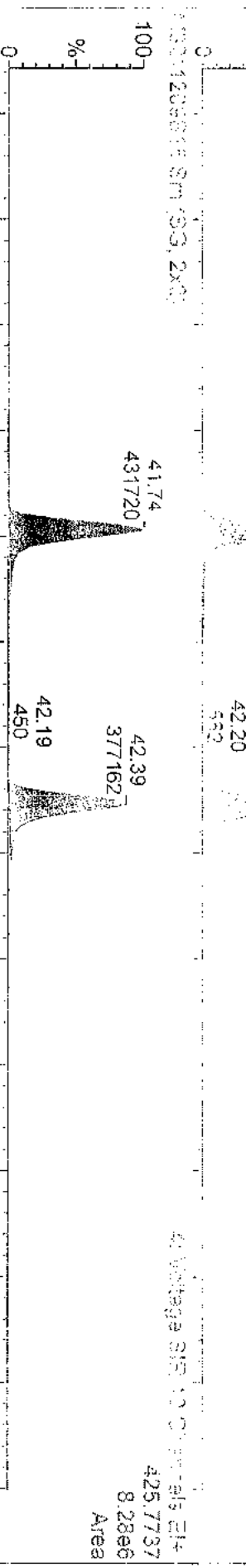
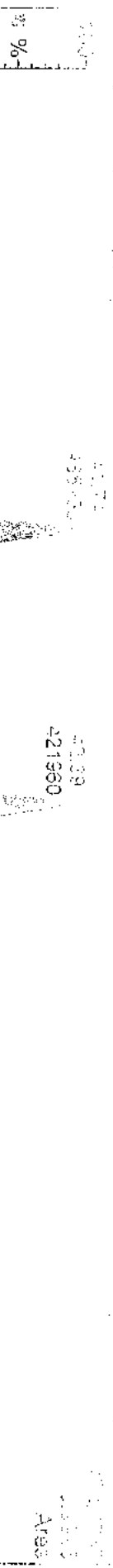
11/09/07 11:00 AM

10-096-0027

43:00000000

11/09/07

11:00 AM



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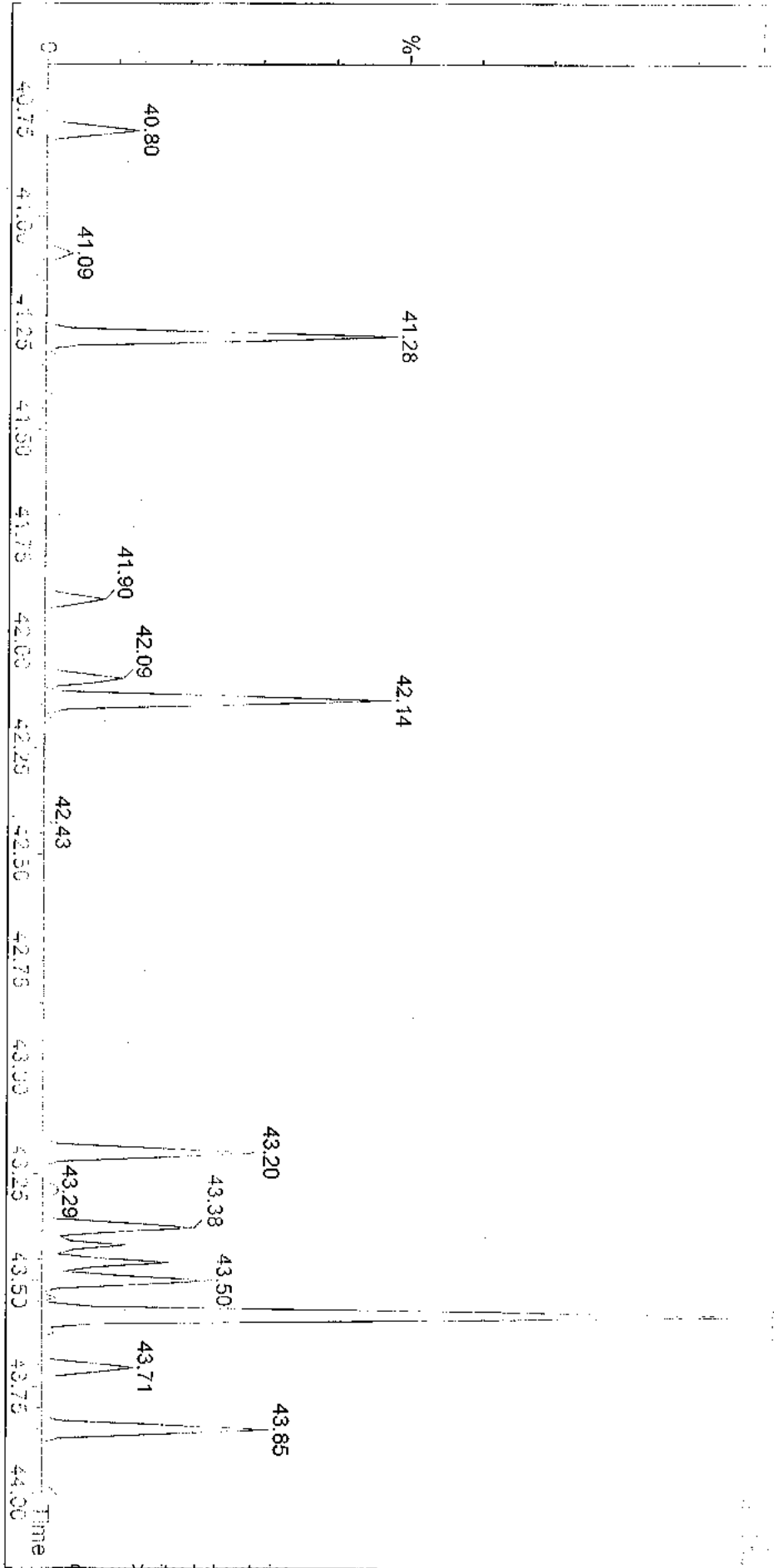
00000000 00000000 00000000

Name: N001209315
Text: db5_w1a_pse/c93

501 Nona DEB

Autospec 600 MHz - M500

10-00-0000
00:00:00



Job Code: 100-100-11-001-001-001
Date: 11/09/2007

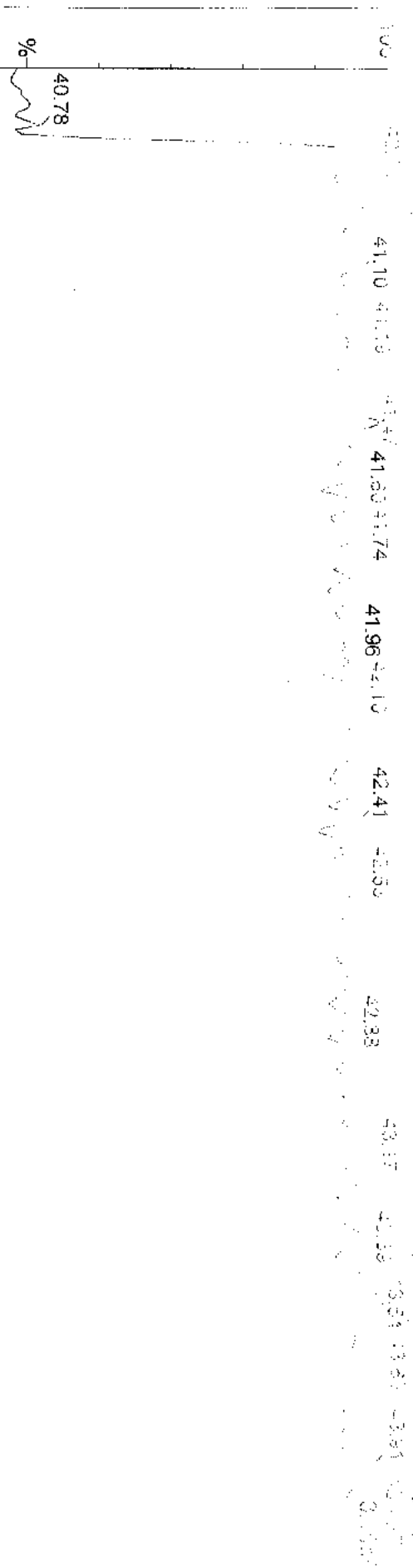
Name: M321239315
Text: db5_wla_perf/CS3

SI: Function 4 Lockmass

100-100-11-001-001-001
100-100-11-001-001-001

AutoSave 01/09/2007 10:03:35

10-Dec-2007
09:22:47



40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

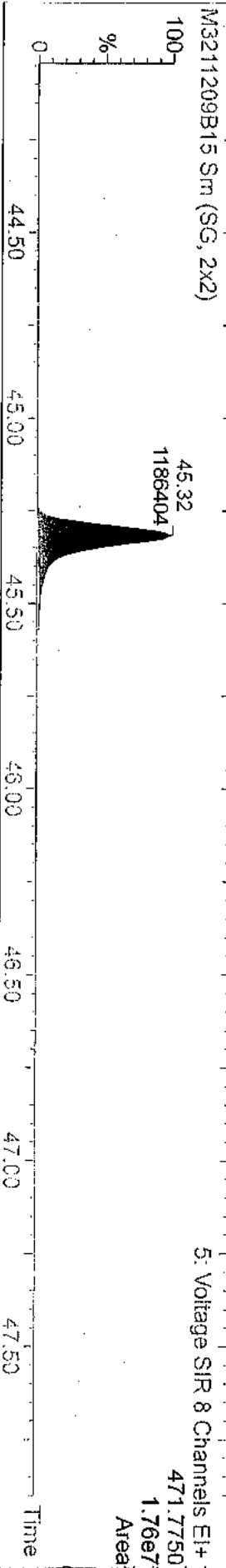
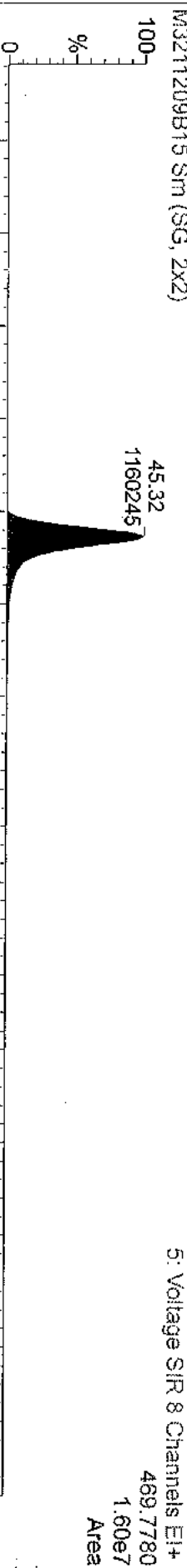
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Job Code: 11 09+05

Name: M3211209B15
Text: db5_wln_parf/CS3

10. GCDF

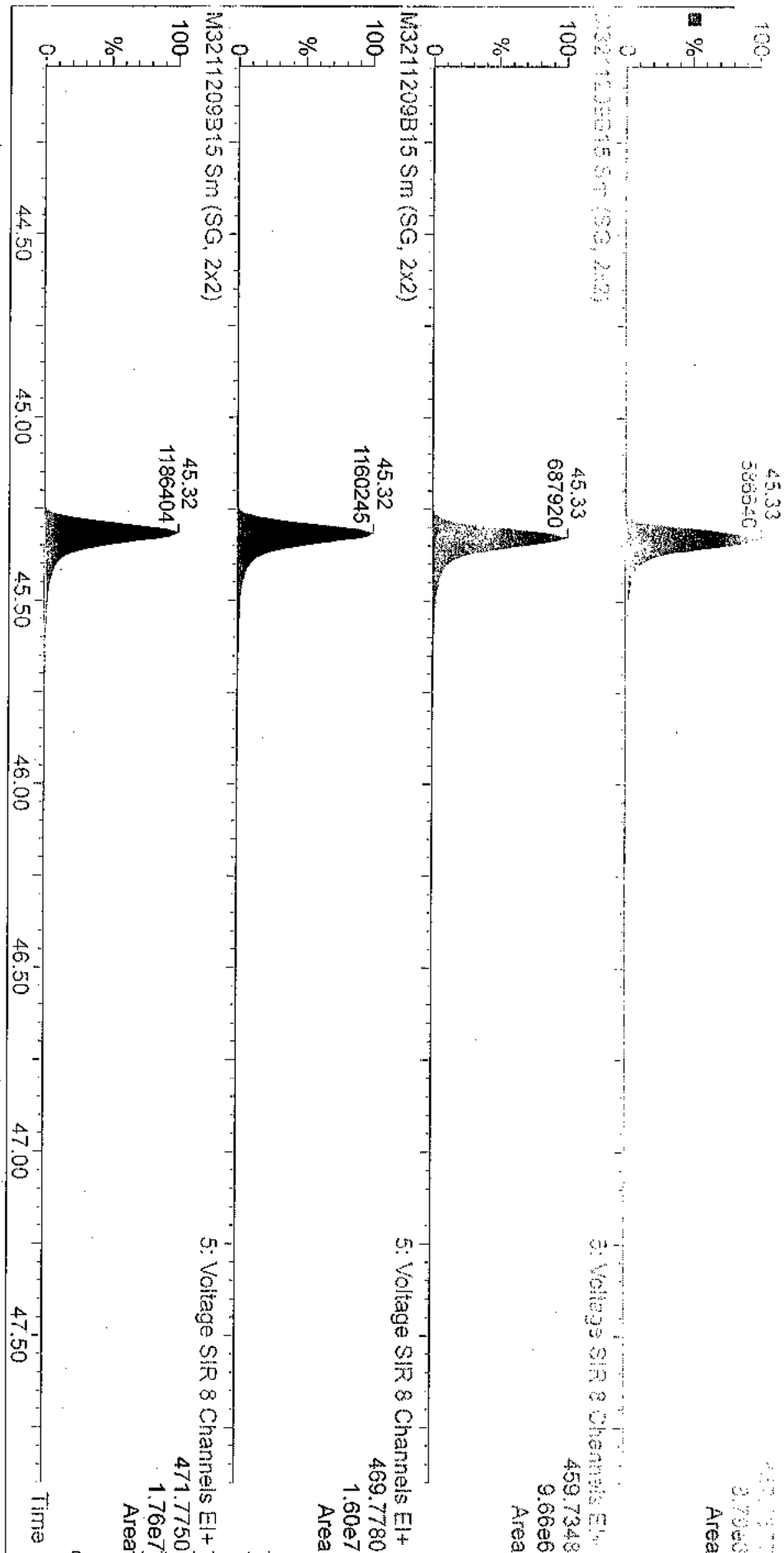
Area



Job Code:

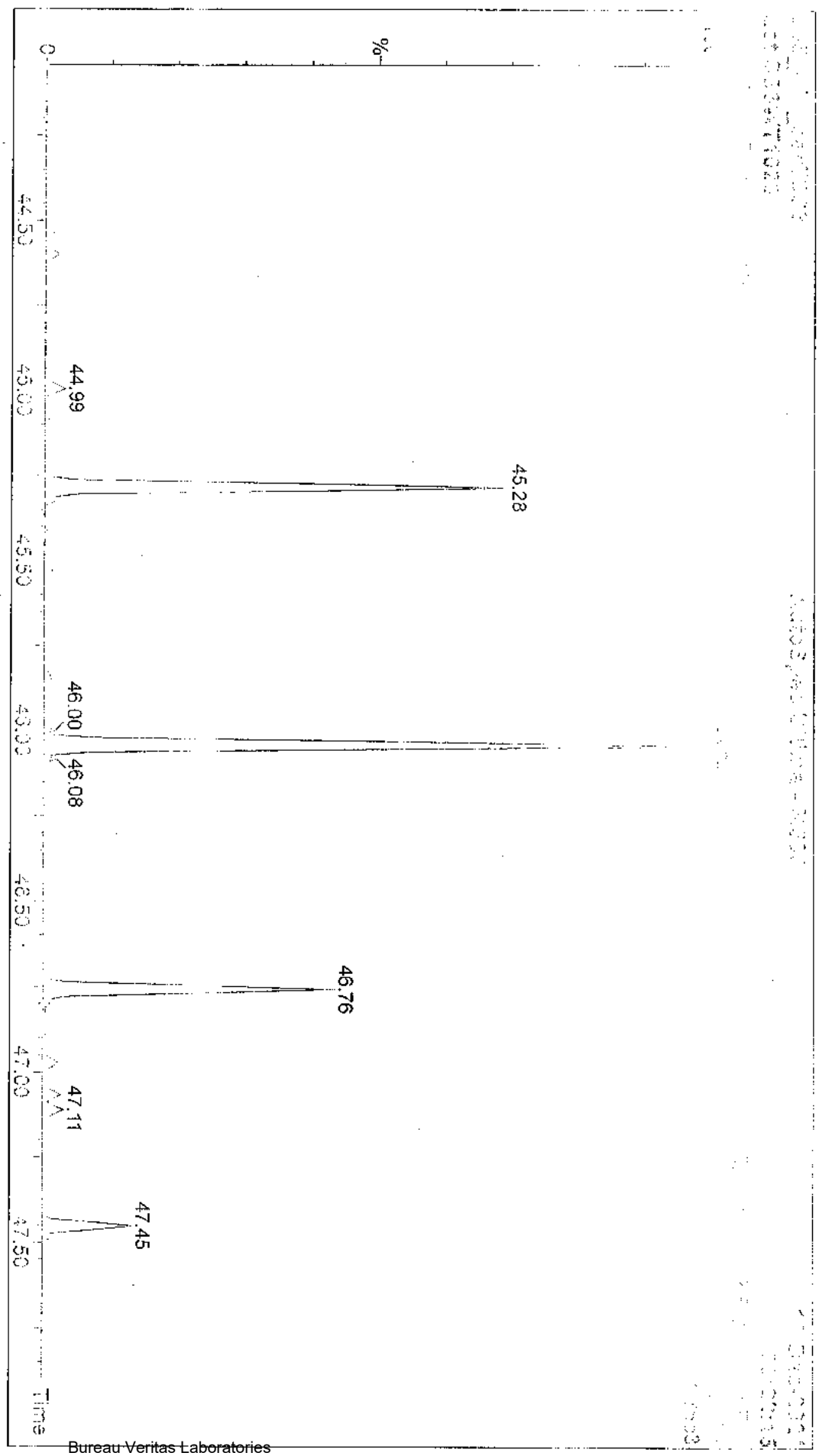
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173 PCPD



NAME: M321129815
TEXT: db5_wm_perf/CS3

52: Deca DPE

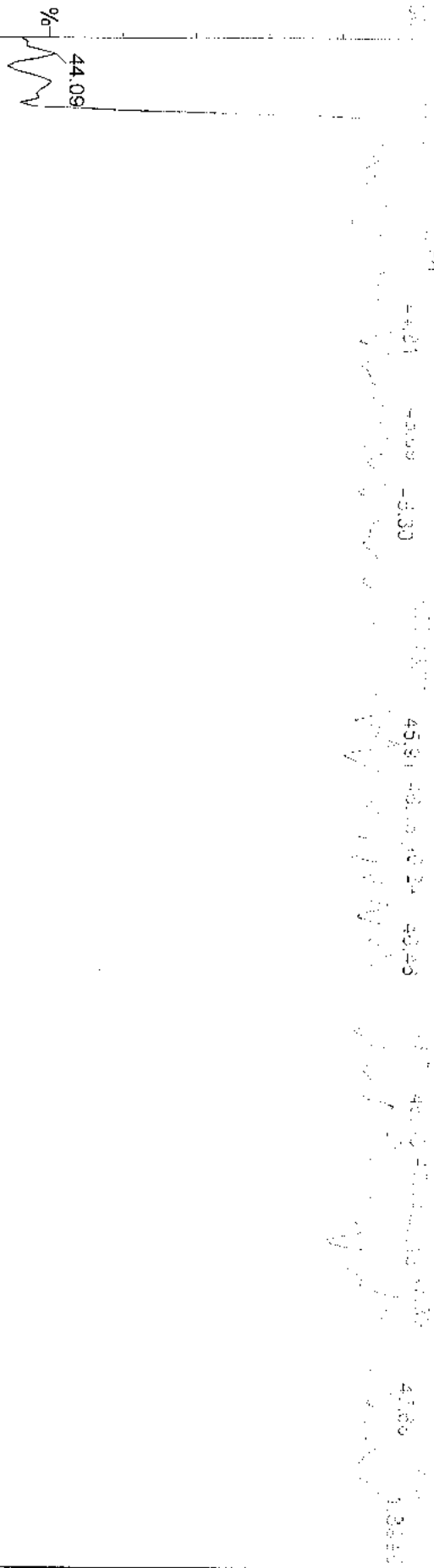


500 Lines
1000 Lines
1000 Lines

Name: M31109315
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53: Function 5 Lockmass

20100910-1120



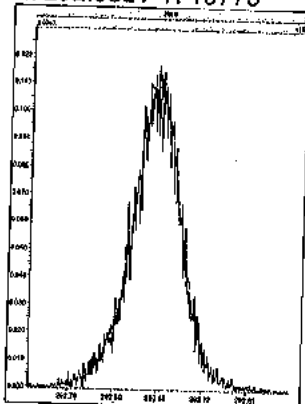
Experiment Calibration Report

MassLynx 4.1

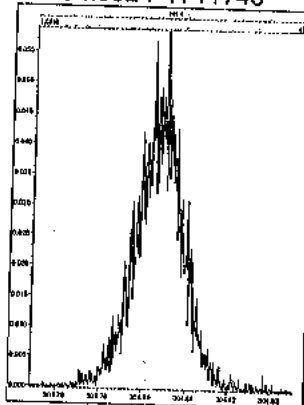
Page 1 of 1

File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 1 @ 200 (ppm)
 Printed: Friday, December 10, 2021 10:15:33 Eastern Standard Time

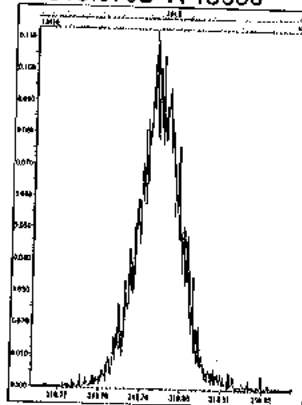
M 292.9824 R 10775



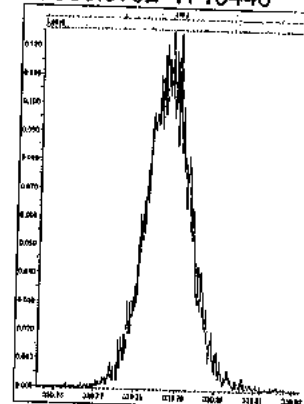
M 304.9824 R 11740



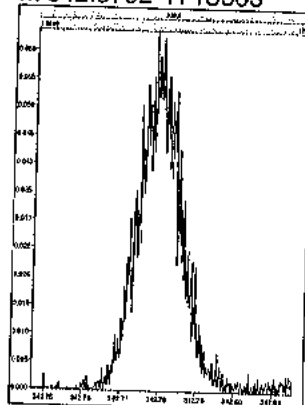
M 318.9792 R 13656



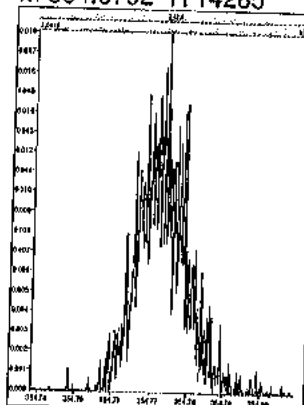
M 330.9792 R 13446



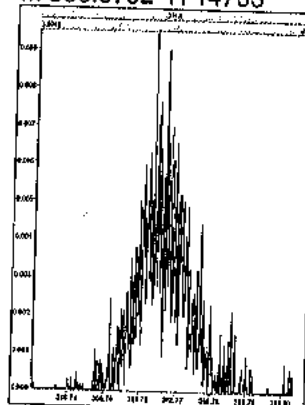
M 342.9792 R 13663



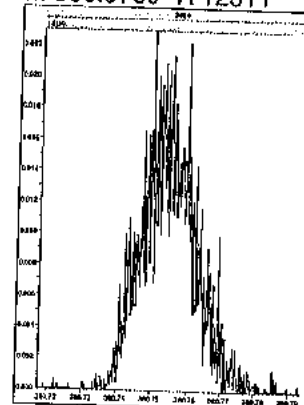
M 354.9792 R 14285



M 366.9792 R 14703



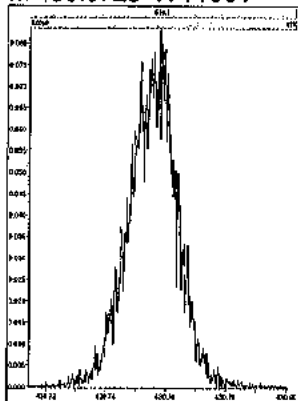
M 380.9760 R 12311



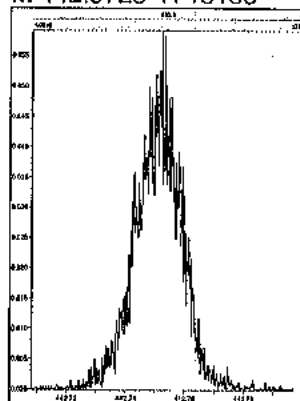
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Printed: Friday, December 10, 2021 10:21:16 Eastern Standard Time

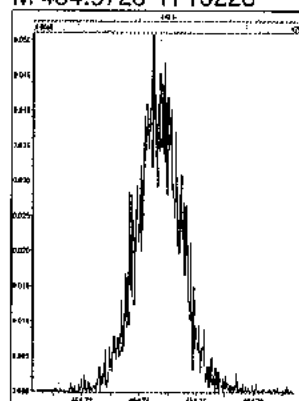
M 430.9728 R 11961



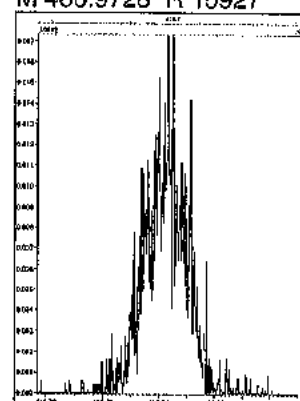
M 442.9728 R 13156



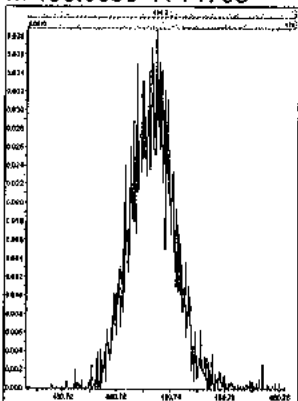
M 454.9728 R 13228



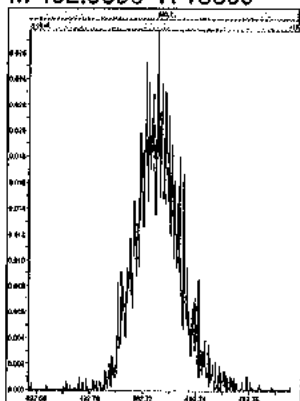
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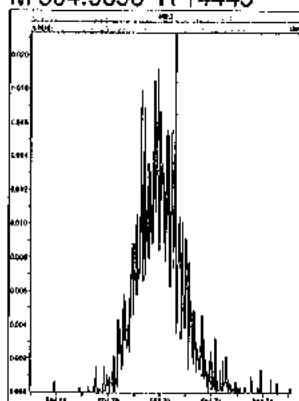
M 480.9696 R 14703



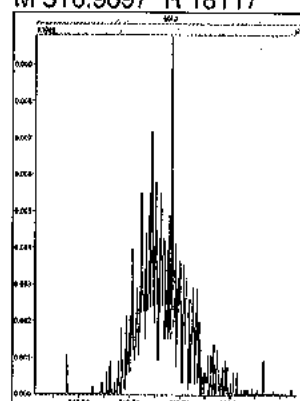
M 492.9696 R 13509



M 504.9696 R 14449



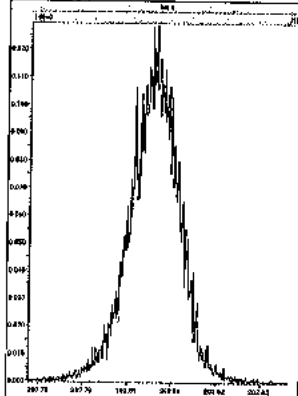
M 516.9697 R 18117



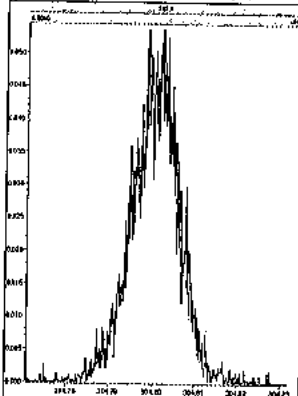
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Printed: Thursday, December 09, 2021 21:21:02 Eastern Standard Time

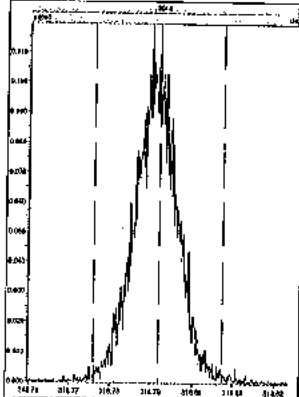
M 292.9824 R 11573



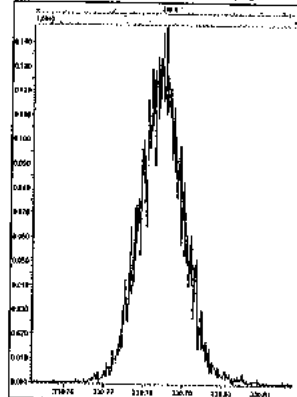
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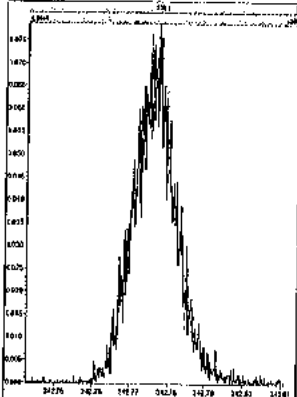
M 318.9792 R 13588



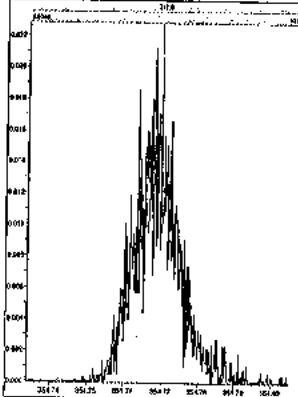
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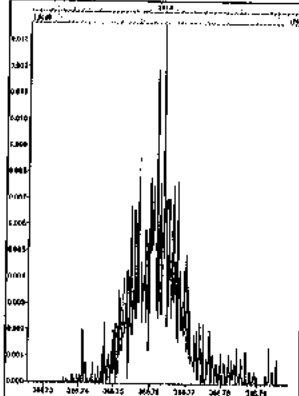
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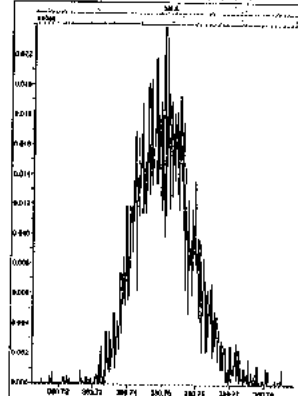
M 354.9792 R 13812



M 366.9792 R 17610



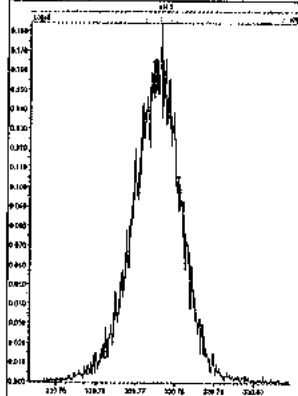
M 380.9760 R 10777



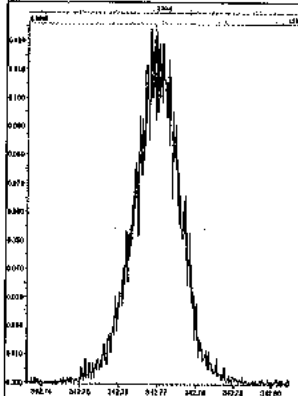
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Printed: Thursday, December 09, 2021 21:22:24 Eastern Standard Time

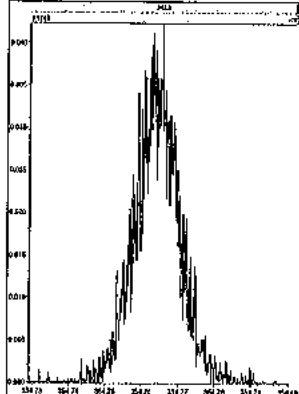
M 330.9792 R 11680



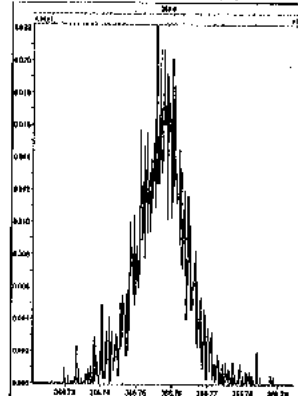
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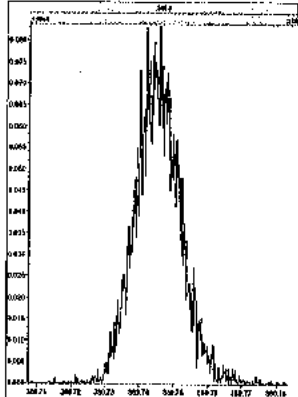
M 354.9792 R 13661



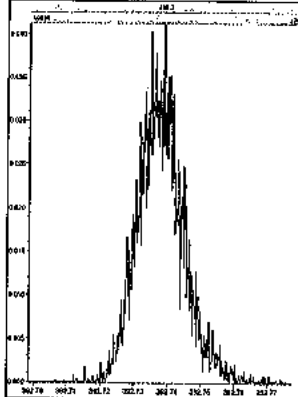
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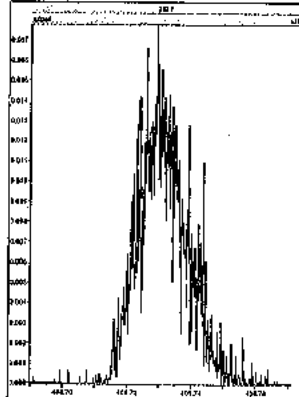
M 380.9760 R 12887



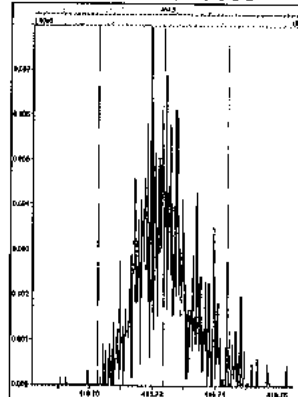
M 392.9760 R 11908



M 404.9760 R 14042



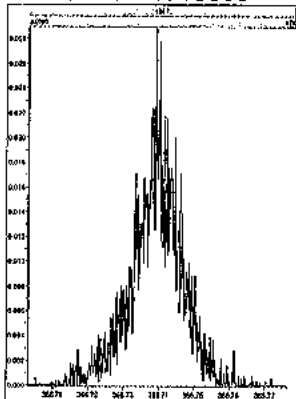
M 416.9760 R 20833



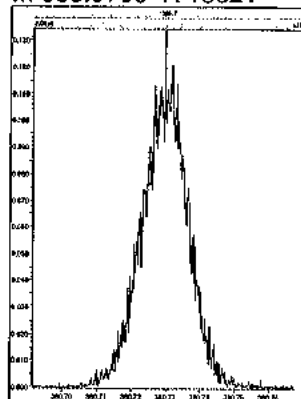
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, December 09, 2021 21:23:08 Eastern Standard Time

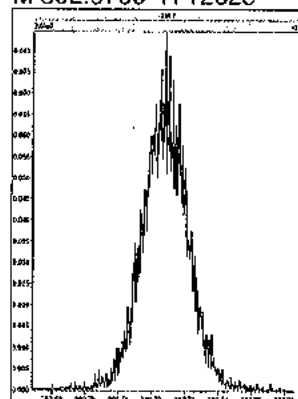
M 366.9792 R 13885



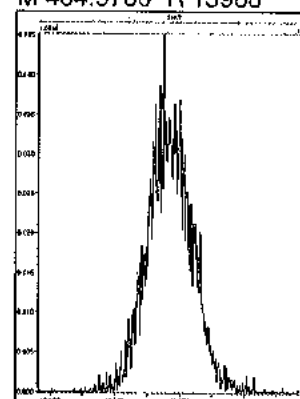
M 380.9760 R 13021



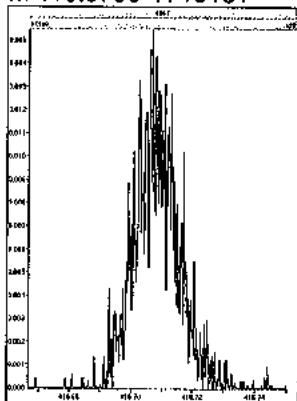
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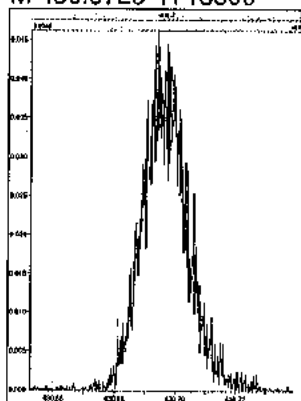
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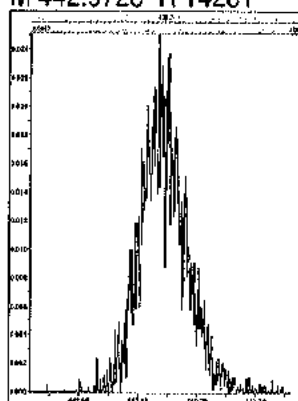
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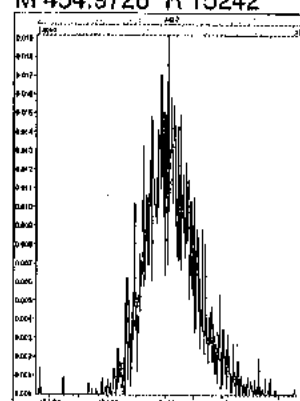
M 430.9728 R 13300



M 442.9728 R 14281



M 454.9728 R 15242



Experiment Calibration Report

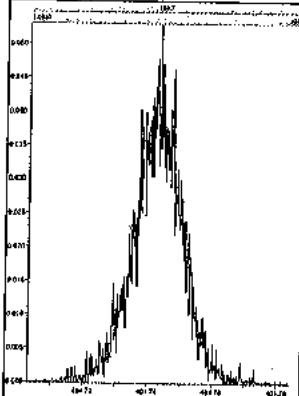
MassLynx 4.1

Page 1 of 1

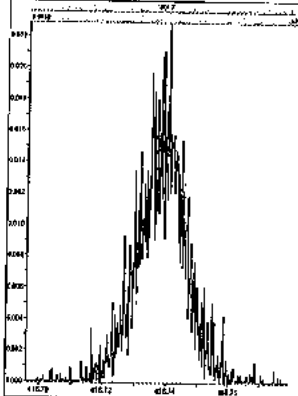
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Printed: Thursday, December 09, 2021 21:23:52 Eastern Standard Time

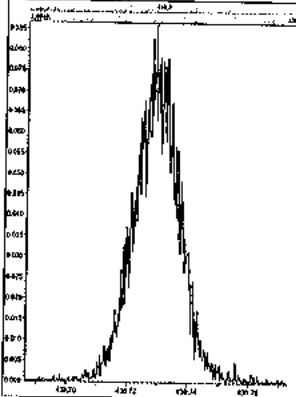
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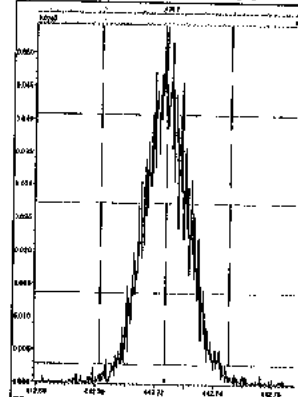
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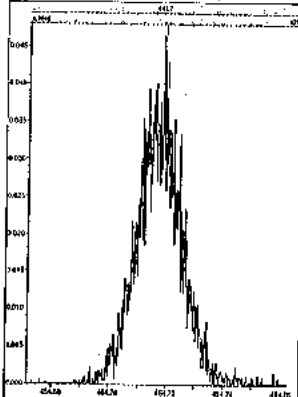
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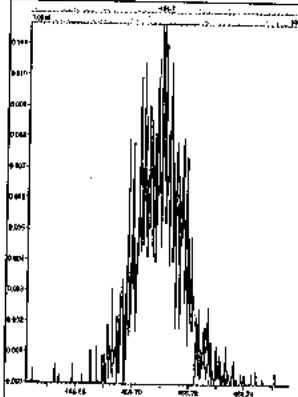
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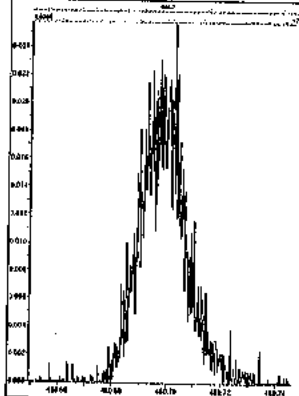
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M 466.9728 R 18516



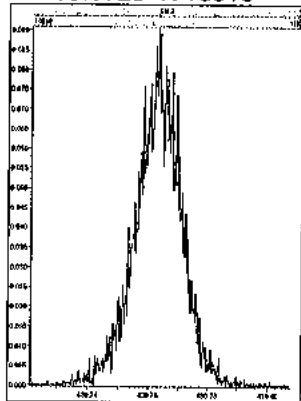
M 480.9696 R 13442



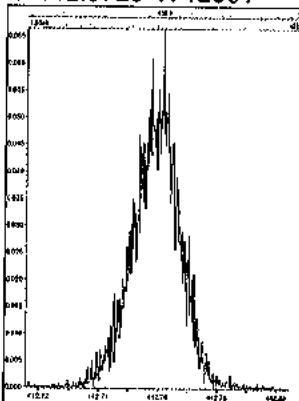
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Printed: Thursday, December 09, 2021 21:24:34 Eastern Standard Time

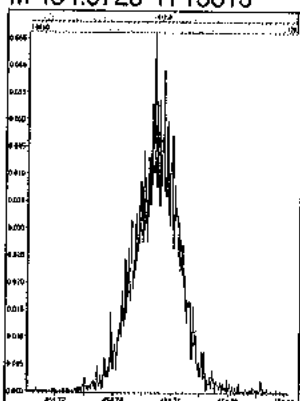
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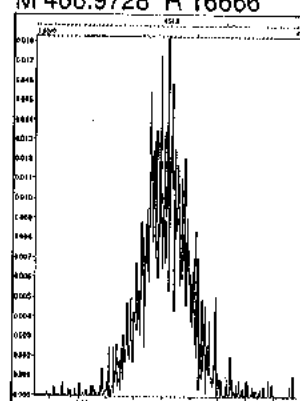
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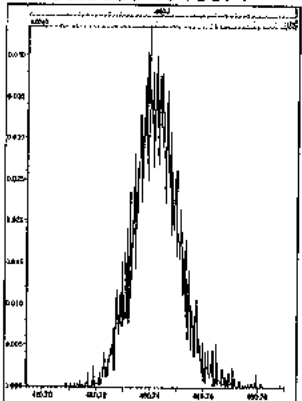
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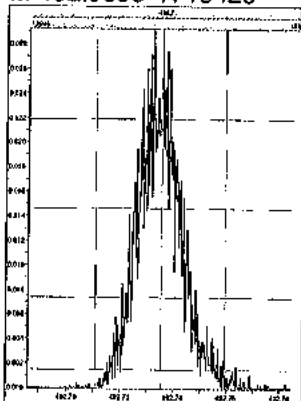
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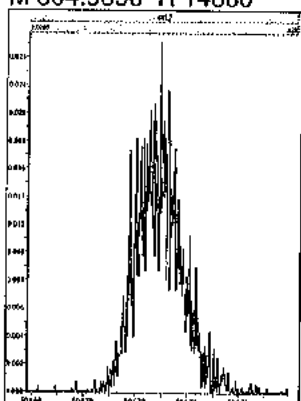
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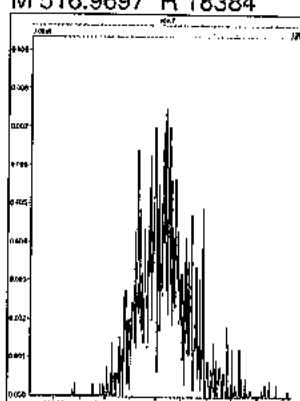
M 492.9696 R 15428



M 504.9696 R 14880



M 516.9697 R 18384



Method 1613 VER
ID: CS3_1613_01
FILE: M3211210A01E
EPA Method 1613

	Conc (ng/mL)	Test	VER Lo	VER Hi
2,3,7,8-Cl4-Dibenzofuran	10	OK	8.4	12
1,2,3,7,8-Cl5-Dibenzofuran	49	OK	41	60
2,3,4,7,8-Cl5-Dibenzofuran	48	OK	41	61
1,2,3,4,7,8-Cl6-Dibenzofuran	49	OK	45	56
1,2,3,6,7,8-Cl6-Dibenzofuran	48	OK	44	57
2,3,4,6,7,8-Cl6-Dibenzofuran	49	OK	44	57
1,2,3,7,8,9-Cl6-Dibenzofuran	50	OK	45	56
1,2,3,4,6,7,8-Cl7-Dibenzofuran	47	OK	45	55
1,2,3,4,7,8,9-Cl7-Dibenzofuran	51	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	107	OK	63	159
2,3,7,8-Cl4-Dibenzo-p-dioxin	10	OK	7.8	12.9
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	51	OK	39	65
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	52	OK	39	64
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	50	OK	39	64
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	47	OK	41	61
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	50	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	106	OK	79	126

SURROGATE RECOVERY

2,3,7,8-T4CDF-13C12	98	OK	71	140
1,2,3,7,8-P5CDF-13C12	100	OK	76	130
2,3,4,7,8-P5CDF-13C12	100	OK	77	130
1,2,3,4,7,8-H6CDF-13C12	100	OK	76	131
1,2,3,6,7,8-H6CDF-13C12	113	OK	70	143
2,3,4,6,7,8-H6CDF-13C12	97	OK	73	137
1,2,3,7,8,9-H6CDF-13C12	93	OK	74	135
1,2,3,4,6,7,8-H7CDF-13C12	90	OK	78	129
1,2,3,4,7,8,9-H7CDF-13C12	79	OK	77	129
2,3,7,8-T4CDD-13C12	102	OK	82	121
1,2,3,7,8-P5CDD-13C12	103	OK	62	160
1,2,3,4,7,8-H6CDD-13C12	96	OK	85	117
1,2,3,6,7,8-H6CDD-13C12	115	OK	85	118
1,2,3,4,6,7,8-H7CDD-13C12	83	OK	72	138
OCDD-13C12	162	OK	96	415
2,3,7,8-T4CDD-37Cl4	10	OK	7.9	12.7

Quantity Sample Summary Report

Sample List: C:\MASSLINC\Default-Pro\SAMPLES\M211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLINC\Default-Pro\METHODS\EPA_1631B_M211210A
 Last Modified: Mon Nov 29 14:59:47 2021
 Job Code:

Printed: Sat Dec 11 09:41:27 2021

Sample Name: M211210A01E Sample ID: Lot C93WT1020

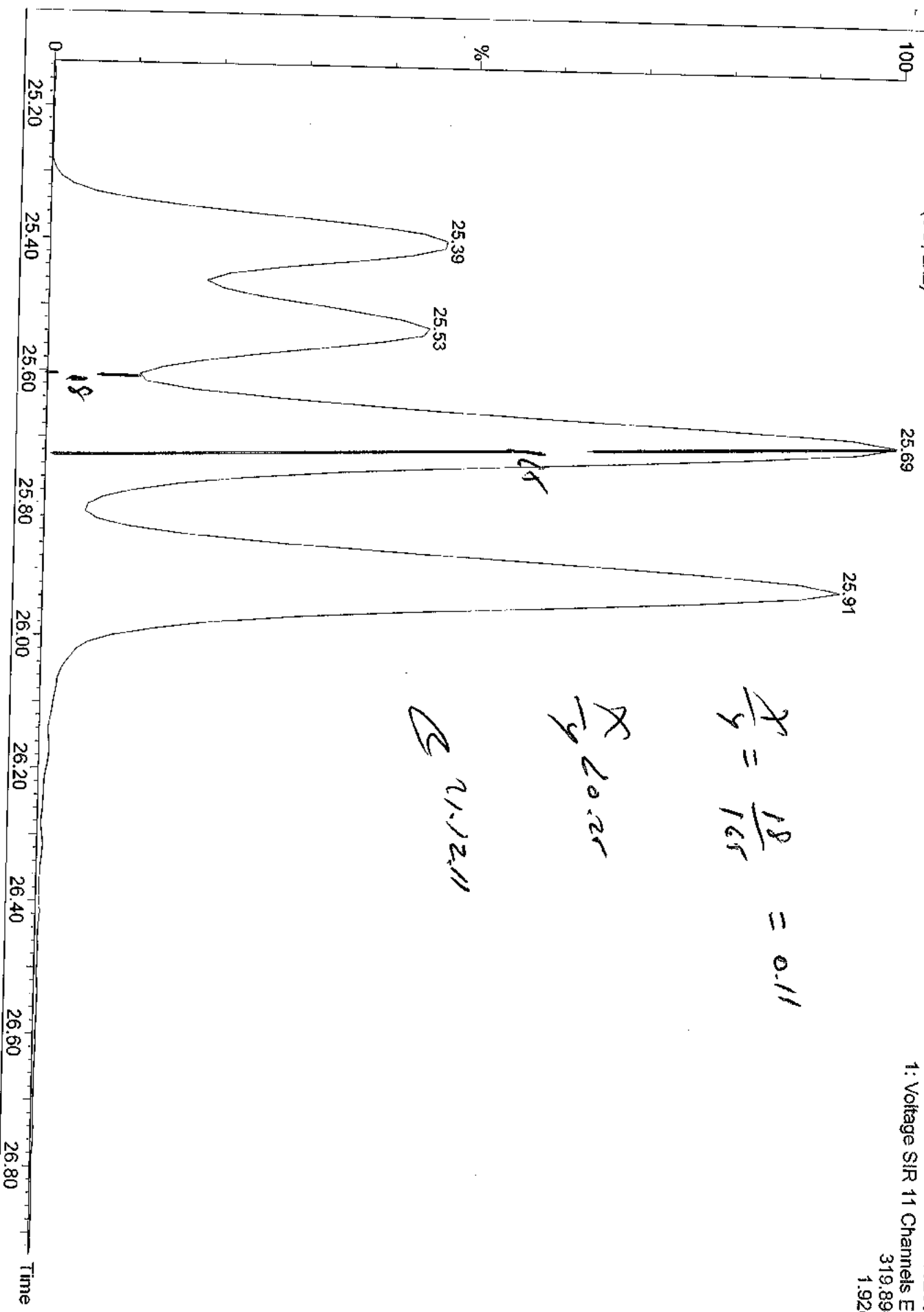
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1	2,3,7,8-TCDF	24.626	224653	290180	514834		0.77	YES	9.458	b4	9.734	-3	97	18
2	1,2,3,7,8-PeCDF	31.982	1181061	779094	196015		1.52	YES	47.790	b4	48.792	-2	98	19
3	2,3,4,7,8-PeCDF	33.633	1268274	822389	209063		1.54	YES	52.732	db	48.389	-3	97	20
4	1,2,3,4,7,8-HxCDF	38.107	1021855	830258	185211		1.23	YES	56.316	b4	48.570	-3	97	21
5	1,2,3,6,7,8-HxCDF	38.241	1157155	925561	208271		1.25	YES	58.352	db	47.826	-4	96	22
6	2,3,4,6,7,8-HxCDF	38.912	1028452	830874	185932		1.24	YES	52.093	db	49.374	-1	99	23
7	1,2,3,7,8,9-HxCDF	39.737	850102	735943	158605		1.15	YES	55.074	db	50.190	0	100	24
8	1,2,3,4,6,7,8-HpCDF	41.457	809046	785873	159491		1.03	YES	56.819	db	47.022	-6	94	25
9	1,2,3,4,7,8,9-HpCDF	42.746	625558	606164	123172		0.88	YES	59.821	bb	50.824	2	102	26
10	OCDF	45.454	935192	106366	199885		0.80	YES	133.156	bb	107.392	7	107	32
11	2,3,7,8-TCDD	25.691	170728	213907	384635		0.80	YES	12.585	dd	10.142	1	101	27
12	1,2,3,7,8-PeCDD	34.355	774393	484728	125912		1.60	YES	57.296	db	51.326	3	103	28
13	1,2,3,4,7,8-HxCDD	39.097	633379	558409	125178		1.24	YES	59.210	db	52.373	-1	99	29
14	1,2,3,6,7,8-HxCDD	39.190	817414	585468	150288		1.19	YES	55.526	db	49.592	5	105	30
15	1,2,3,7,8,9-HxCDD	39.531	690621	587543	127926		1.17	YES	47.227	db	43.190	-1	99	30
16	1,2,3,4,6,7,8-HpCDD	42.396	558339	486908	104524		1.15	YES	54.622	db	50.354	-14	86	30
17	OCDD	45.347	798517	872821	167143		0.92	YES	111.345	db	105.589	1	101	31
18	1,3C-2,3,7,8-TCDF	24.604	240631	303716	544343		0.79	YES	210.370	b4	98.093	6	106	32
19	1,3C-1,2,3,7,8-PeCDF	31.951	255879	154279	410159		1.66	YES	158.510	dd	100.490	-2	98	33
20	1,3C-2,3,4,7,8-PeCDF	33.612	240911	155550	396466		1.55	YES	153.218	dd	99.389	0	100	33
21	1,3C-1,2,3,4,7,8-HxCDF	38.097	113195	215684	328880		0.52	YES	133.538	bb	100.196	-0	100	33
22	1,3C-1,2,3,6,7,8-HxCDF	38.231	215684	261067	329725		0.52	YES	161.533	dd	112.553	13	113	34
23	1,3C-2,3,4,6,7,8-HxCDF	38.891	111012	209047	320060		0.54	YES	129.957	bb	97.100	-3	97	34
24	1,3C-1,2,3,7,8,9-HxCDF	39.727	100650	187332	287982		0.54	YES	116.932	bb	93.468	-7	93	34
25	1,3C-1,2,3,4,6,7,8-HpCDF	41.447	873976	193902	280700		0.45	YES	113.975	b4	90.002	-10	90	34
26	1,3C-1,2,3,7,8-TCDD	25.766	637131	142188	205902		0.45	YES	83.604	bb	78.630	-21	79	34
27	1,3C-2,3,7,8,9-HpCDD	42.736	136493	169127	305621		0.81	YES	118.111	bb	101.904	-2	102	33
28	1,3C-1,2,3,7,8-PeCDD	34.354	136452	936805	219756		1.64	YES	84.928	bb	100.376	3	103	33
29	1,3C-1,2,3,4,7,8-HxCDD	39.077	121365	936805	215045		1.30	YES	87.317	bb	95.865	-4	96	34
30	1,3C-1,2,3,6,7,8-HxCDD	39.180	149542	121120	270663		1.24	YES	109.900	bb	82.523	15	115	34
31	1,3C-1,2,3,4,6,7,8-HpCDD	42.386	958637	958952	300227		1.00	YES	77.699	bb	115.471	-4	96	34
32	1,3C-OCDD	45.337	150655	149572	270663		1.01	YES	121.904	bb	82.523	-17	83	34
33	1,3C-1,2,3,4-TCDD	25.372	117072	141686	258758		0.83	YES	258758.875	bb	55.824	-19	81	34
34	1,3C-1,2,3,7,8-TCDD	25.520	132092	114189	246281		1.16	YES	246281.9375	bb	46.329	-54	46	0
35	C137-2,3,7,8-TCDD	25.691	327262	327262	654523		1.00	YES	25.295	b4	10.046	0	100	33
36	Totals Tetra-Furans	-	0	0	0		-	-	-	-	31.047	-	-	18
37	Totals Tetra-Dioxins	-	0	0	0		-	-	-	-	46.917	-	-	27
38	Totals Penta-Furans	-	0	0	0		-	-	-	-	215.931	-	-	0
39	Totals Penta-Dioxins	-	0	0	0		-	-	-	-	202.447	-	-	28
40	Totals Hexa-Furans	-	0	0	0		-	-	-	-	245.439	-	-	0
41	Totals Hexa-Dioxins	-	0	0	0		-	-	-	-	192.857	-	-	30
42	Totals Hepta-Furans	-	0	0	0		-	-	-	-	98.106	-	-	0
43	Totals Hepta-Dioxins	-	0	0	0		-	-	-	-	108.097	-	-	31

db5_win_perf/CS3
Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021
19:23:18
1: Voltage SIR 11 Channels E₂
319.8965
1.9286



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMPLDDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

36: Totals Tetra-Purans

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

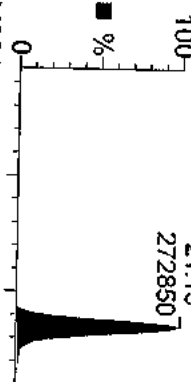
AutoSpec Ultima - M536

10-Dec-2021

19:23:18

1: Voltage S/R 11 Channels EI+

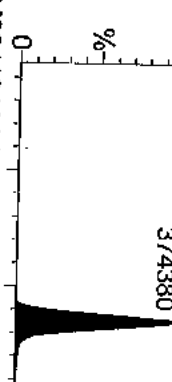
27.23 3.80e5
 200272 Area



M3211210A01E Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+

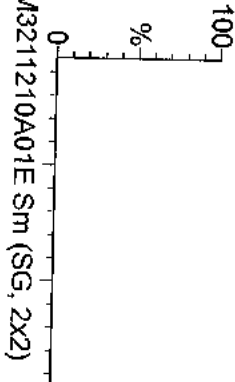
305.8987
 27.23 4.97e5
 267467 Area



M3211210A01E Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+

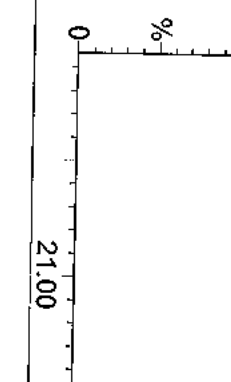
315.9419
 2.76e7



M3211210A01E Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+

317.9389
 3.50e7



```

Sample List: C:\MASSTXN\Default-pro\SAMFILEDB\M32111210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSTXN\Default-pro\METHOD\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

```

Printed: Sat Dec 11 09:43:44 2021

Name: MB311210A01E
Text: db5_win_perf/CS3

37: Totals Tetra-Dioxins

db5_win_perf/CS3
Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021
19:23:18



Quantify Sample Report

Sample List: C:\MASSVIEW\Default.pro\SAMPLES\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

35: C137-2,3,7,8-TCDD

db5_win_perf/CS3
 Lot CS3WT1020

AutoSpec Ultima - M536

10-Dec-2021

M3211210A01E Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



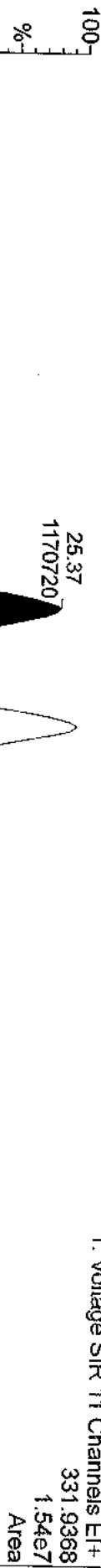
M3211210A01E Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211210A01E Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



M3211210A01E Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+



Quantify Sample Report

Sample List: C:\MASSVIEW\Default.pro\SAMPLES\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default.pro\METHOD\M321127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A012
 Text: db5_win_perf/CS3

38: Hexa DPE

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

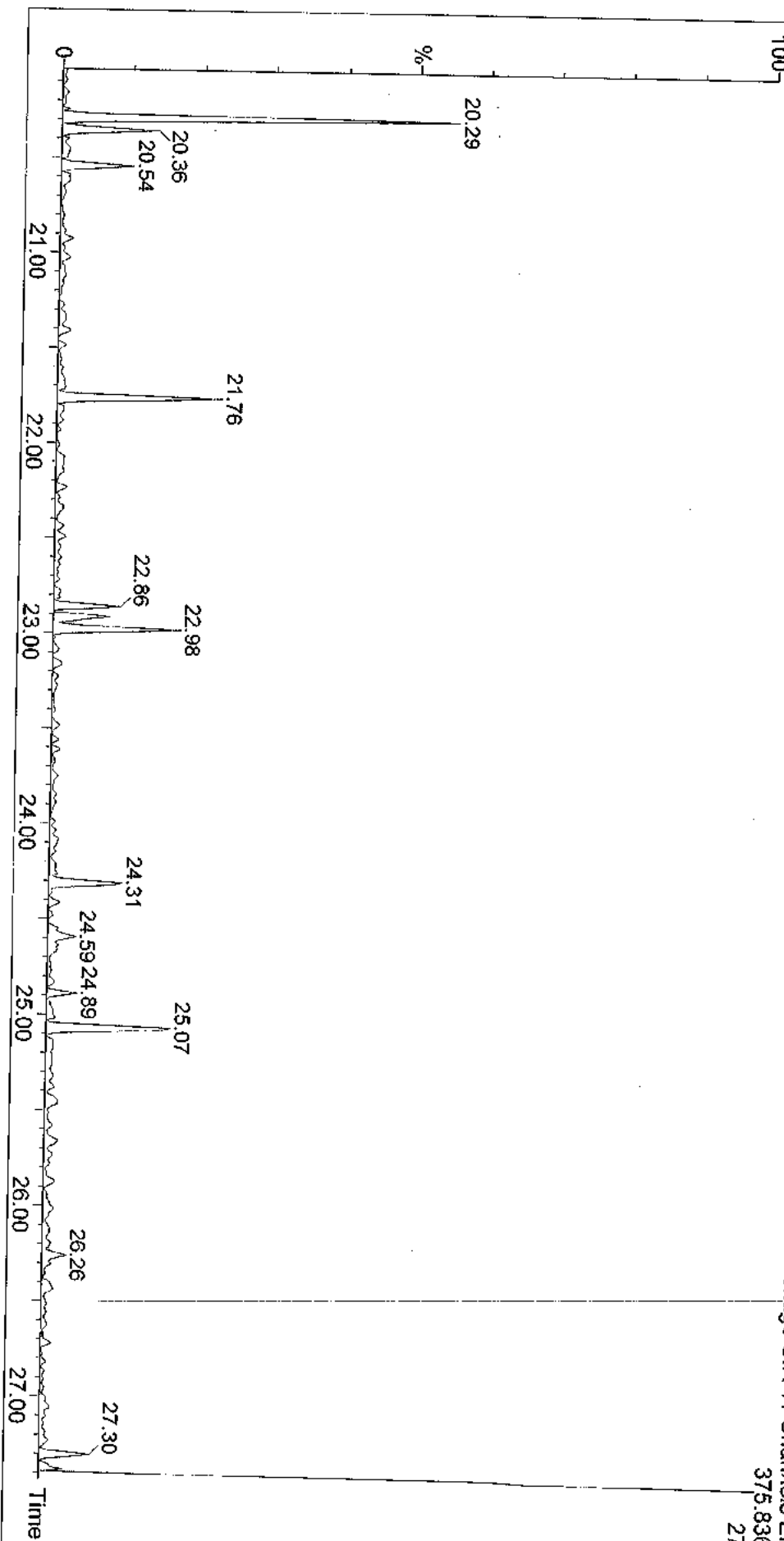
10-Dec-2021

19:23:18

1: Voltage SIR 11 Channels EI+

375.8364

271



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

40: Totals Penta-Furans

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

19:23:18

2: Voltage SIR 10 Channels EI+

339.8597
 1.62e7
 Area

35.29
 1204054
 35.63
 401

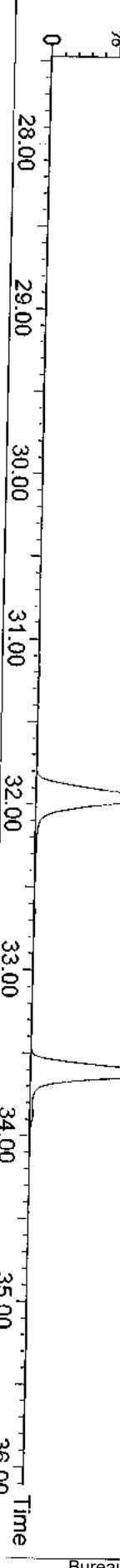
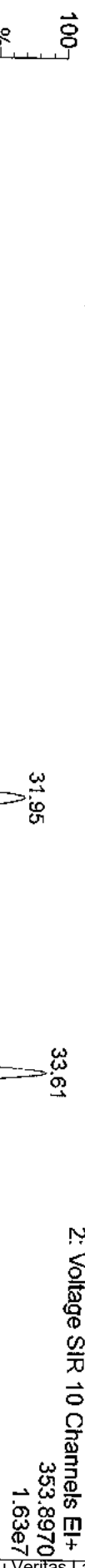
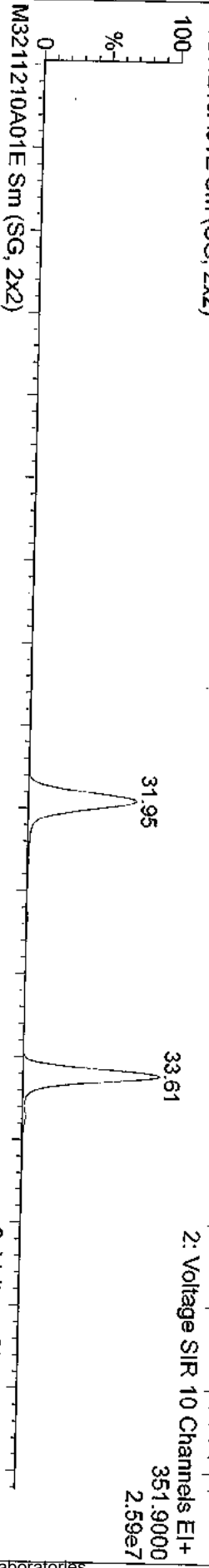
33.63
 822389
 35.29
 787128
 35.62
 315

341.8568
 1.05e7
 Area

33.63
 822389
 35.29
 787128
 35.62
 315

351.9000
 2.59e7

353.8970
 1.63e7



Quantify Sample Report

Sample Id#: C:\MASSSTXN\Default-pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSSTXN\Default-pro\METHOD\M3211127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_wln_perf/CS3

41: Totals Penta-Dioxins

db5_wln_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

19:23:18

2: Voltage S/R 10 Channels EI+

30.36
1361472

34.35
774393

35.16
904304

355.8546
1.09e7
Area

35.61
345
Area

32.12
1338

33.78
2688

35.57
372

M3211210A01E Sm (SG, 2x2)

2: Voltage S/R 10 Channels EI+

30.35
870071

34.35
484728
563799

357.8517
6.93e6
Area

35.57
372

32.09
1007

33.77
1663

M3211210A01E Sm (SG, 2x2)

2: Voltage S/R 10 Channels EI+

34.33

367.8949
1.57e7

M3211210A01E Sm (SG, 2x2)

2: Voltage S/R 10 Channels EI+

34.33

369.8919
9.60e6



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

42: Hepta DEP

db5_win_perf/CS3
 Lot CS3WT1020

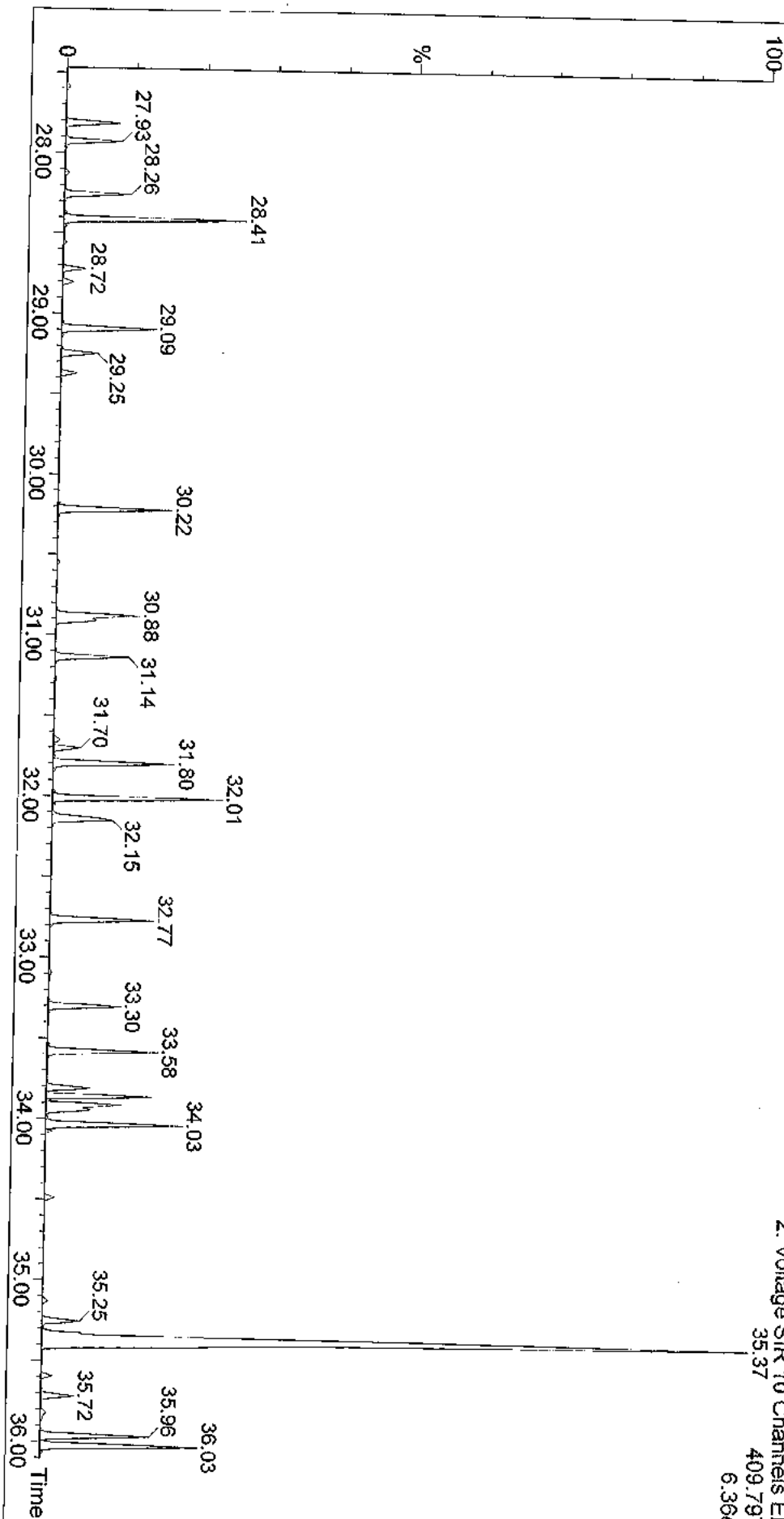
M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

19:23:18

2: Voltage SIR 10 Channels EI+
 409.7974
 6.36e3



Quantity Sample Report

Sample Idet: C:\MSSTXK\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTXK\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

43: Function 2 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2X2)

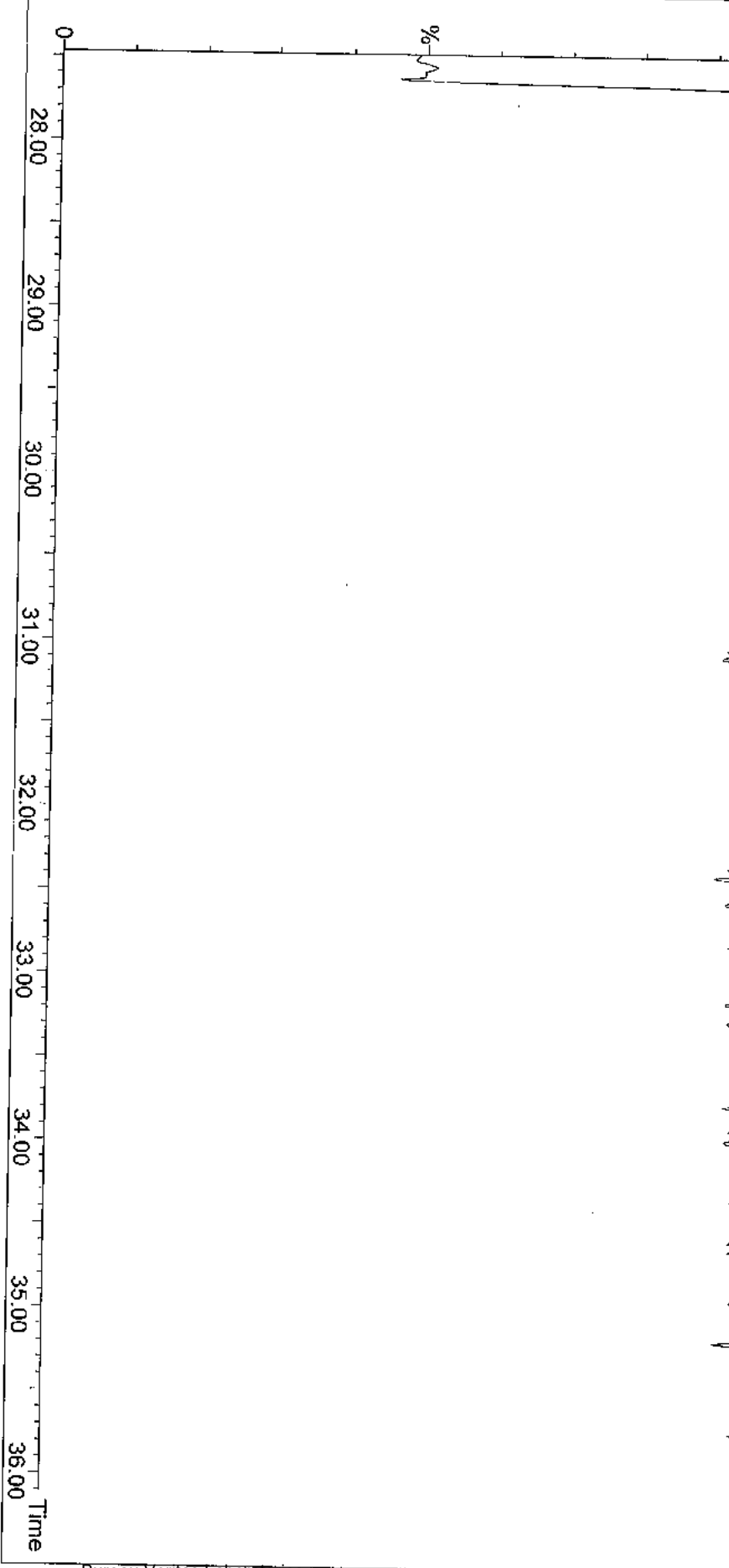
AutoSpec Ultima - M536

10-Dec-2021

19:23:18

2: Voltage SIR 10 Channels EI+

27.96	28.72	29.06	29.68	30.08	30.31	31.11	31.21	31.54	31.94	32.43	32.77	33.38	33.93	34.49	34.82	35.47	35.60	366.97	366.92	366.95	366.96



Quantify Sample Report

Sample List: C:\MASSVIEW\Default-pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default-pro\METHODS\M3211210A_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_wln_perf/CS3

44: Totals Hexa-Furans

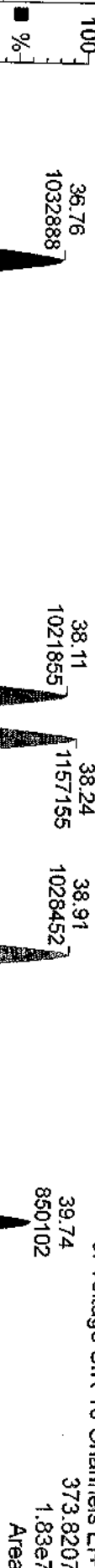
db5_wln_perf/CS3
 Lot CS3WT1020

AutoSpec Ultima - M536

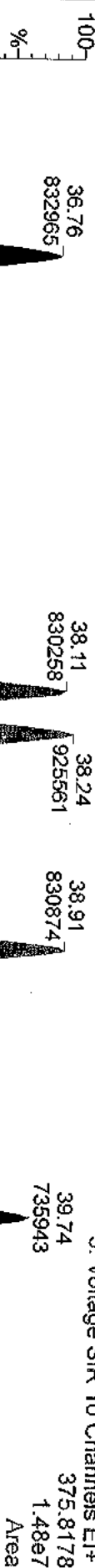
10-Dec-2021

19:23:18

M3211210A01E Sm (SG, 2x2)



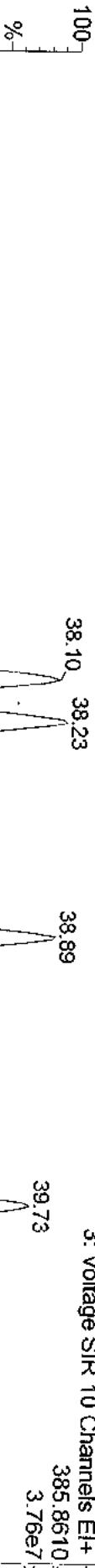
M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-Pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default-Pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A1E
 Text: db5_win_perf/CS3

45: Totals Hexa-Dioxins

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

19:23:18



M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MASSTXK\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSTXK\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

46: Octa DPE

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

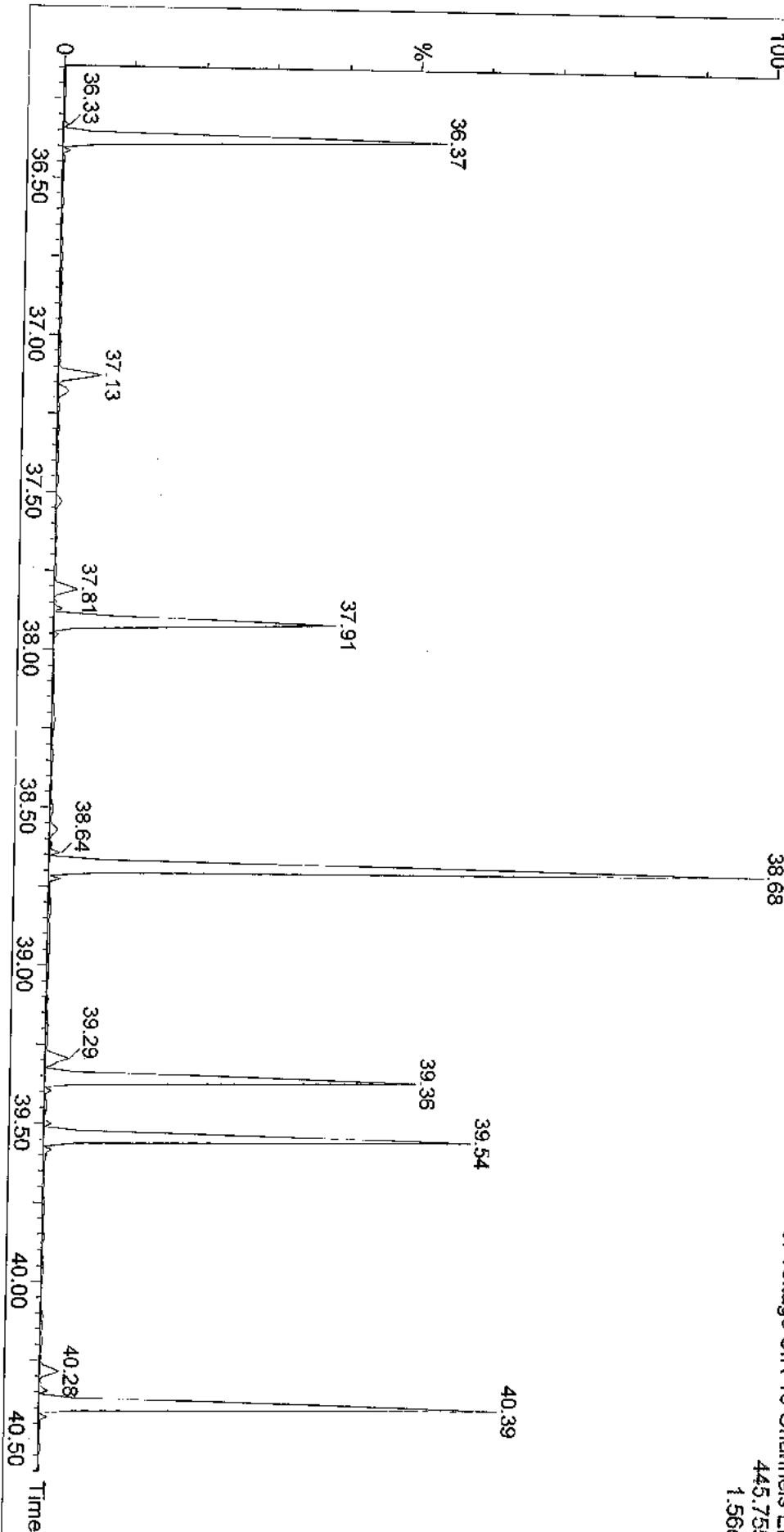
10-Dec-2021

19:23:18

3: Voltage SIR 10 Channels EI+

445.7555

1.56e3



Quantity Sample Report

Sample List: C:\MASSLYNK\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNK\Default-pro\METHOD\M3211217A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

47: Function 3 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2X2)

AutoSpec Ultima - M536

10-Dec-2021
 19:23:18

3: Voltage SIR 10 Channels EI+



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

48: Totals Hepta-Furans

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

19:23:18



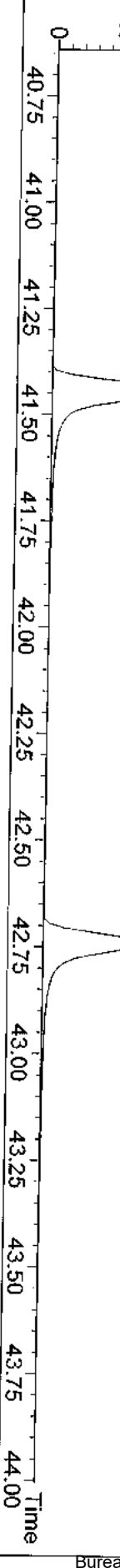
M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



Quantity Sample Report

Sample Id#t: C:\MASSVIEW\Default-pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M3211127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_wln_perf/CS3

49: Totals Hepta-Dioxins

db5_wln_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

19:23:18

4: Voltage S/R 10 Channels EI+

423.7767
 1.10e7
 Area

M3211210A01E Sm (SG, 2x2)

4: Voltage S/R 10 Channels EI+

425.7737
 1.05e7
 Area

M3211210A01E Sm (SG, 2x2)

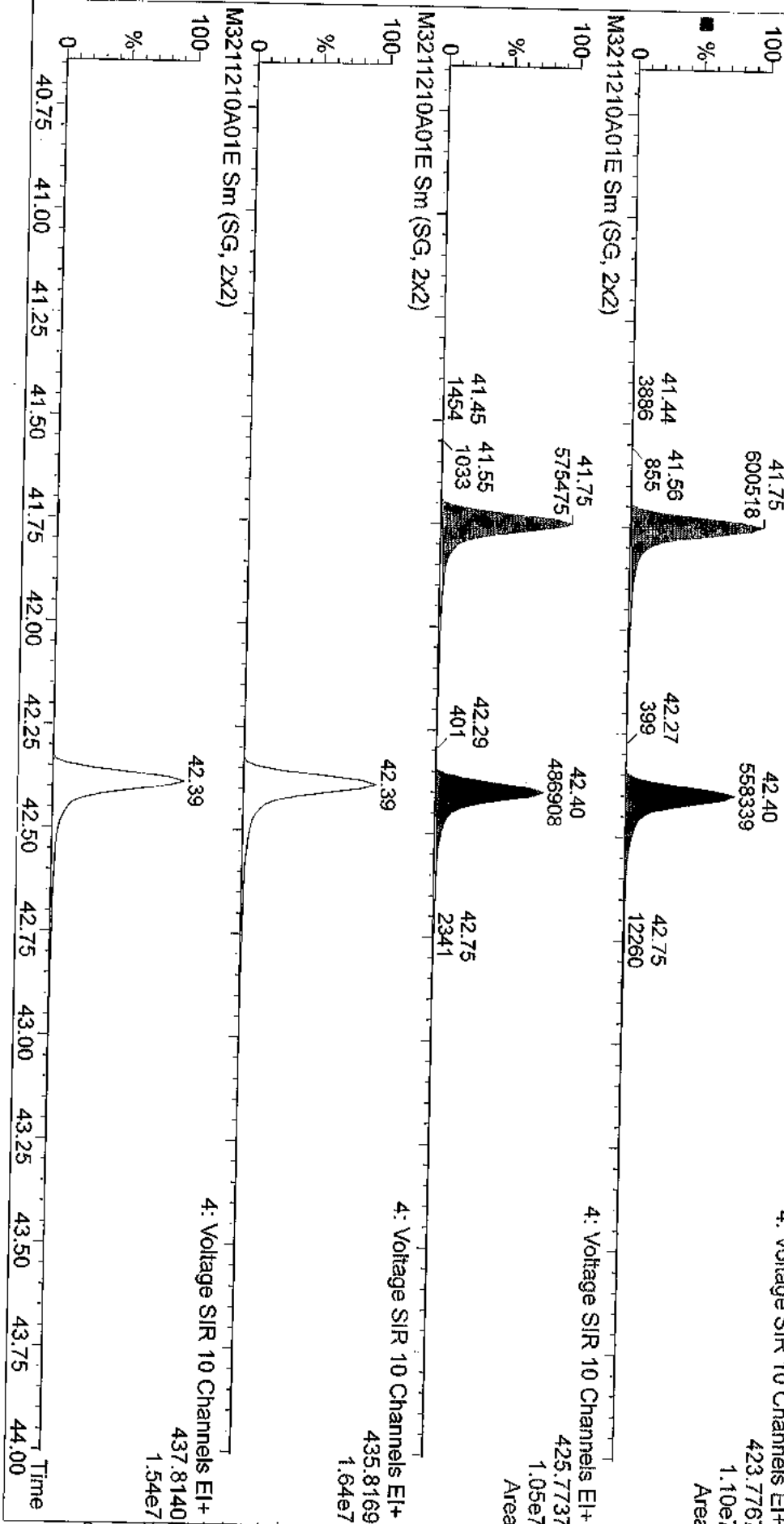
4: Voltage S/R 10 Channels EI+

435.8169
 1.64e7

M3211210A01E Sm (SG, 2x2)

4: Voltage S/R 10 Channels EI+

437.8140
 1.54e7



Quantity Sample Report

Sample List: C:\MASSTXN\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSTXN\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A1E
 Text: db5_win_perf/CS3

SO: Nona DPR

db5_win_perf/CS3
 Lot CS3WT1020

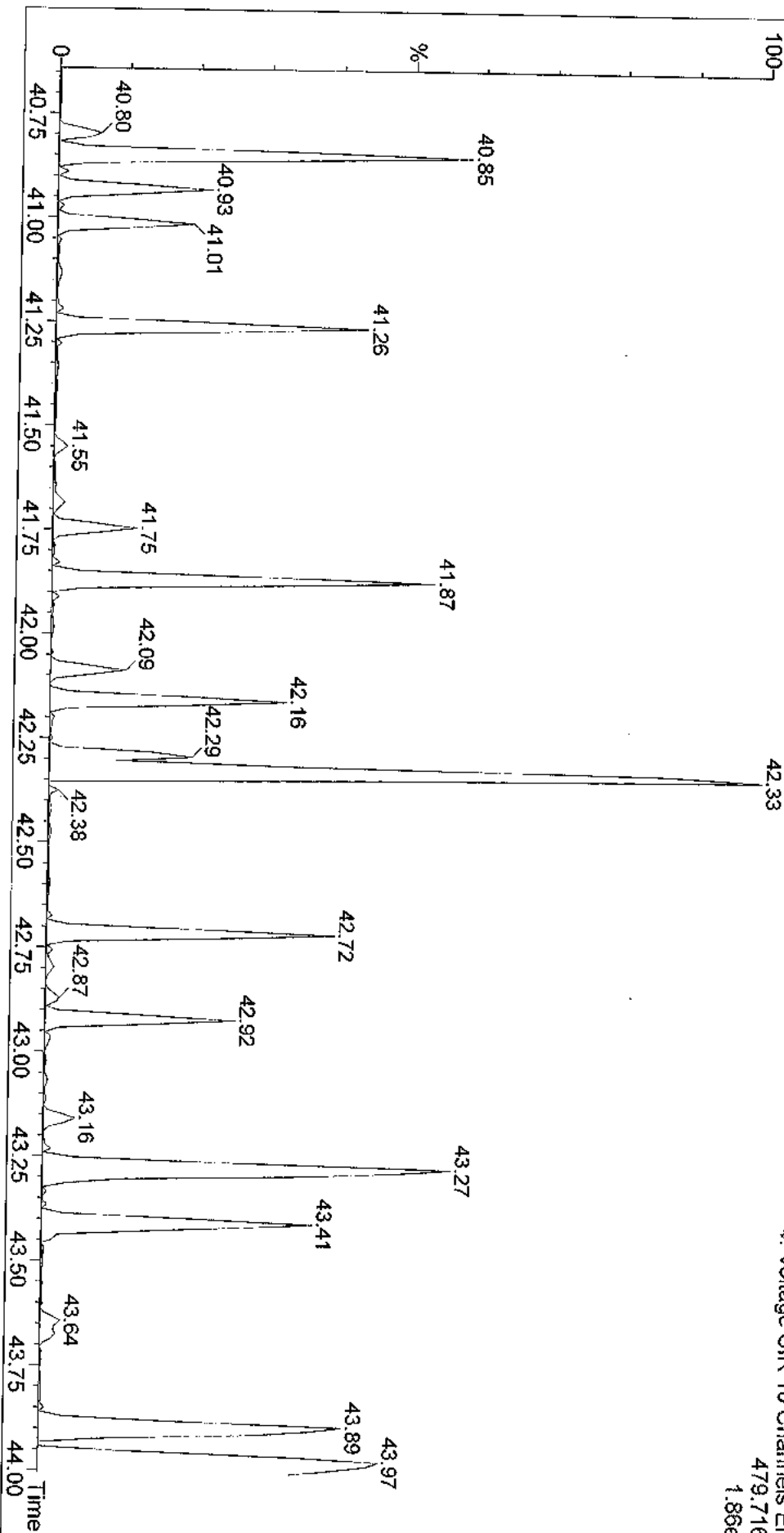
M3211210A1E Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

19:23:18

4: Voltage SIR 10 Channels EI+
 479.7165
 1.86e3



Quantity Sample Report

Sample List: C:\MASSLINK\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLINK\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_wln_perf/CS3

S1: Function 4 Lockmass

db5_wln_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2X2)

Autospec Ultima - M536

10-Dec-2021

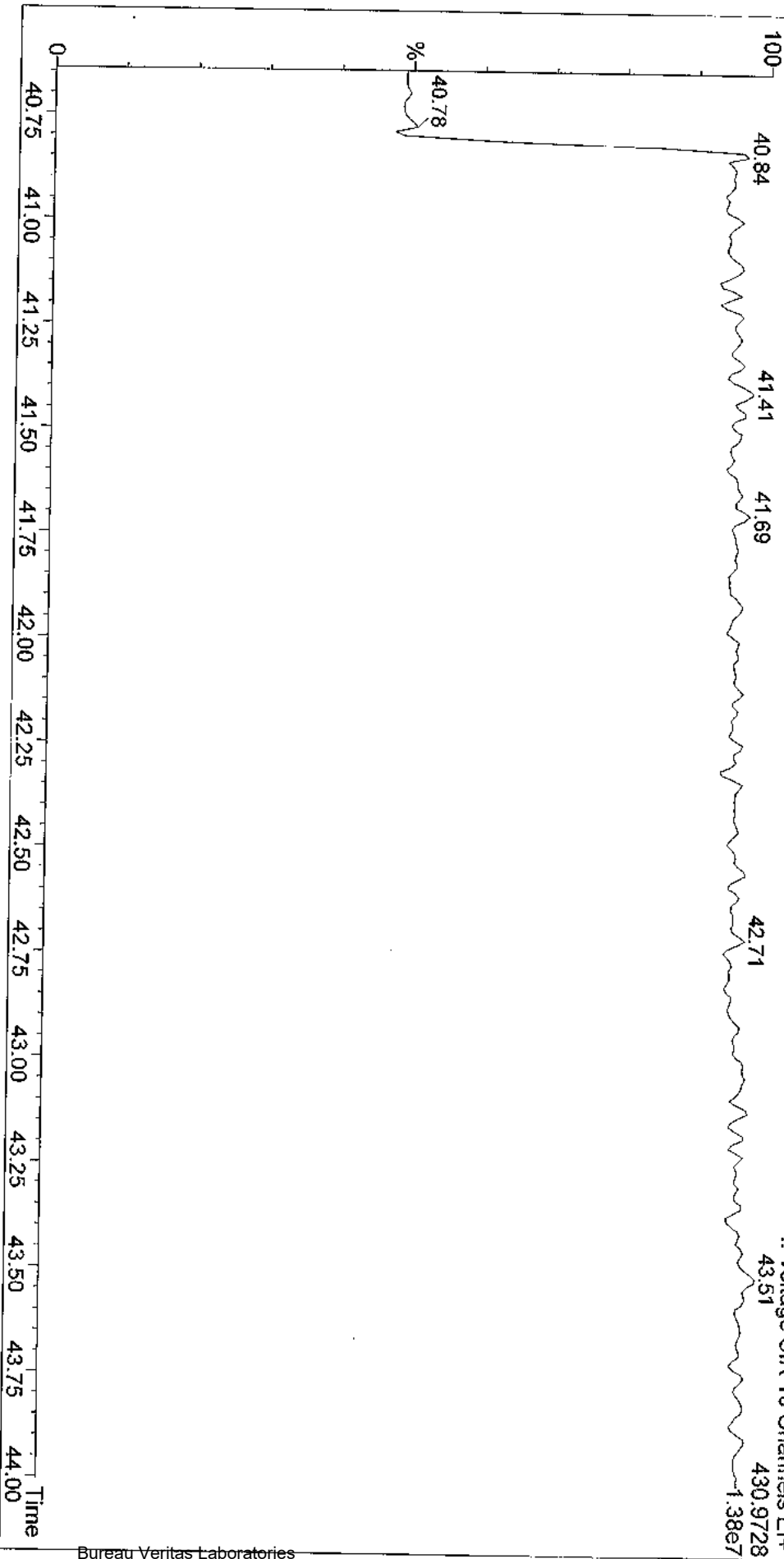
19:23:18

4: Voltage SIR 10 Channels EI+

43.51

430.9728

1.38e7



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last Modified: Mon Nov 29 13:04:21 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_wtn_perf/CS3

10: OCPB

db5_wtn_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

Autospec Ultima - M536

10-Dec-2021

19:23:18



M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MASSLYNK\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNK\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

17: OQDD

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

Autospec Ultima - M536

10-Dec-2021

19:23:18



M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



M3211210A01E Sm (SG, 2x2)



Quantify Sample Report

Sample list: C:\MASSVIEW\default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_wln_perf/CS3

52: Deca DP3

db5_wln_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2X2)
 44.52

AutoSpec Ultima - M536

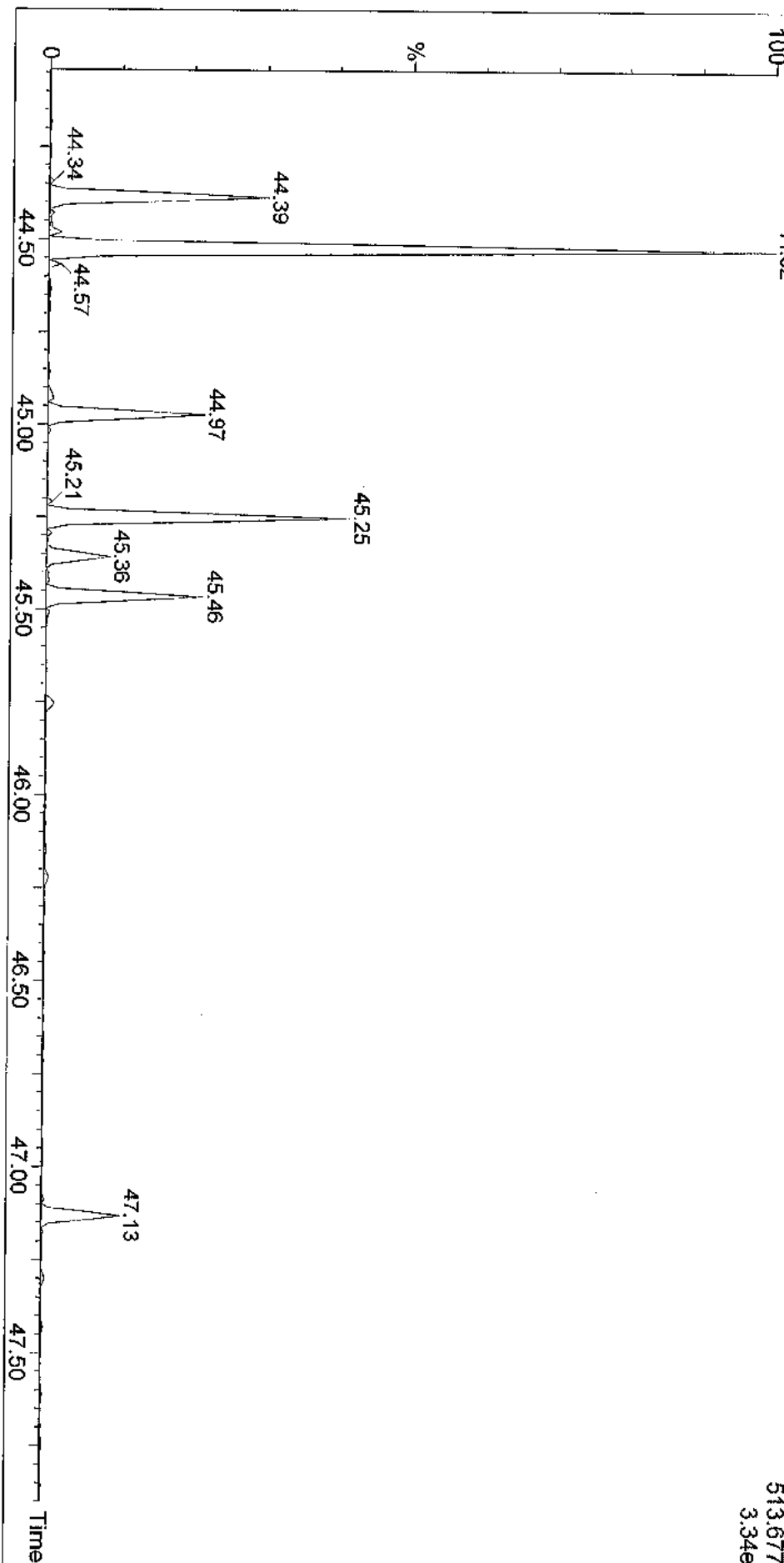
10-Dec-2021

19:23:18

5: Voltage S/R 8 Channels EI+

513.6775

3.34e3



Quantify Sample Report

Sample list: C:\MASSLYNK\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNK\Default-pro\METHODS\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

S3: Function 5 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

AutoSpec Ultima - M536

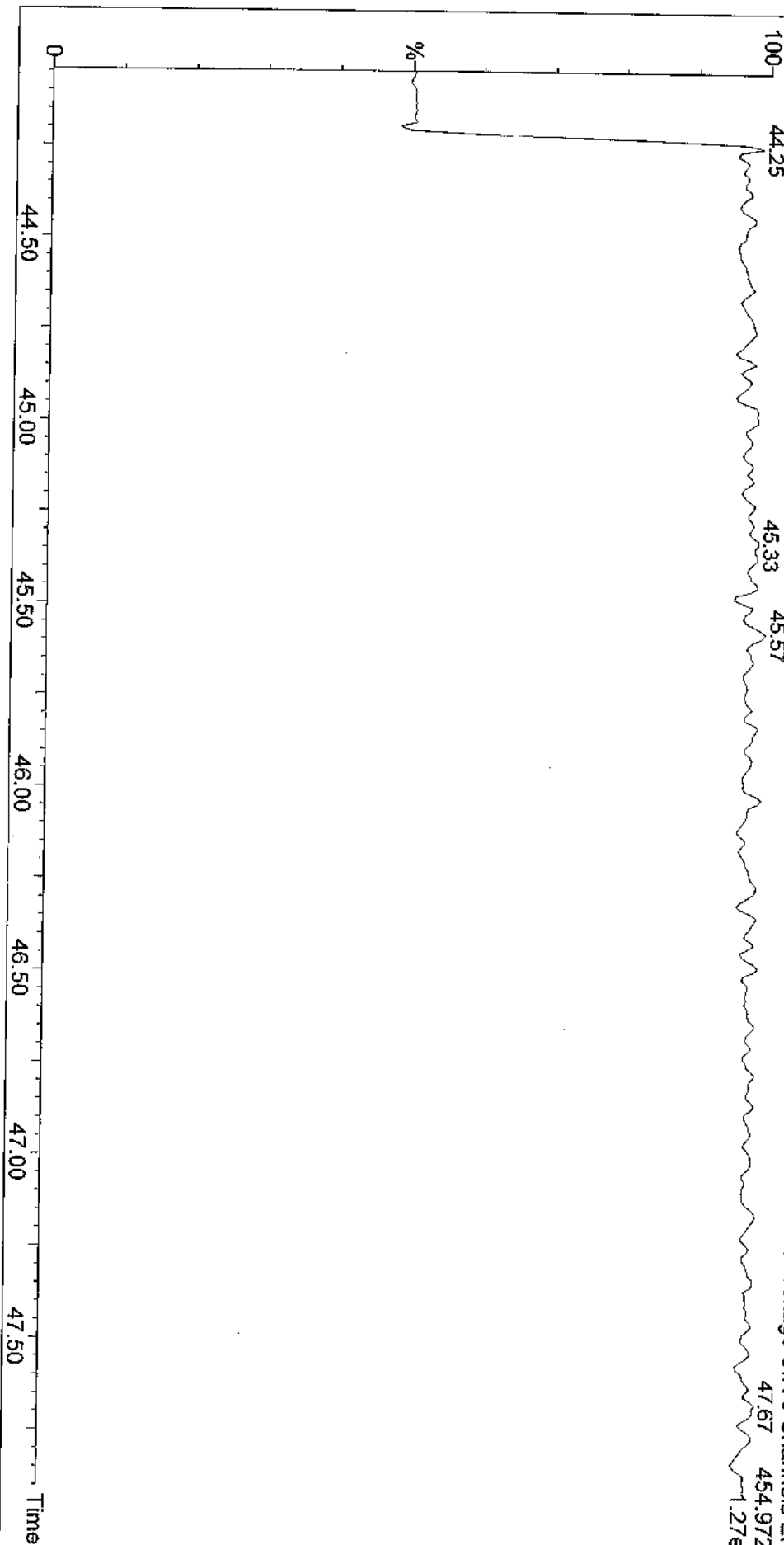
10-Dec-2021

19:23:18

5: Voltage SIR 8 Channels EI+

47.67 454.9728

1.27e7



Method 1613 VER
ID: CS3_1613_01
FILE: M3211210A15
EPA Method 1613

	Conc (ng/mL)	Test	VER Lo	VER Hi
2,3,7,8-Cl4-Dibenzofuran	9	OK	8.4	12
1,2,3,7,8-Cl5-Dibenzofuran	46	OK	41	60
2,3,4,7,8-Cl5-Dibenzofuran	46	OK	41	61
1,2,3,4,7,8-Cl6-Dibenzofuran	48	OK	45	56
1,2,3,6,7,8-Cl6-Dibenzofuran	46	OK	44	57
2,3,4,6,7,8-Cl6-Dibenzofuran	48	OK	44	57
1,2,3,7,8,9-Cl6-Dibenzofuran	49	OK	45	56
1,2,3,4,6,7,8-Cl7-Dibenzofuran	48	OK	45	55
1,2,3,4,7,8,9-Cl7-Dibenzofuran	49	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	102	OK	63	159
2,3,7,8-Cl4-Dibenzo-p-dioxin	10	OK	7.8	12.9
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	51	OK	39	65
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	49	OK	39	64
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	49	OK	39	64
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	47	OK	41	61
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	46	OK	43	58
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	102	OK	79	126

SURROGATE RECOVERY

2,3,7,8-T4CDF-13C12	87	OK	71	140
1,2,3,7,8-P5CDF-13C12	96	OK	76	130
2,3,4,7,8-P5CDF-13C12	96	OK	77	130
1,2,3,4,7,8-H6CDF-13C12	93	OK	76	131
1,2,3,6,7,8-H6CDF-13C12	103	OK	70	143
2,3,4,6,7,8-H6CDF-13C12	94	OK	73	137
1,2,3,7,8,9-H6CDF-13C12	91	OK	74	135
1,2,3,4,6,7,8-H7CDF-13C12	83	OK	78	129
1,2,3,4,7,8,9-H7CDF-13C12	80	OK	77	129
2,3,7,8-T4CDD-13C12	99	OK	82	121
1,2,3,7,8-P5CDD-13C12	106	OK	62	160
1,2,3,4,7,8-H6CDD-13C12	98	OK	85	117
1,2,3,6,7,8-H6CDD-13C12	110	OK	85	118
1,2,3,4,6,7,8-H7CDD-13C12	88	OK	72	138
OCDD-13C12	177	OK	96	415
2,3,7,8-T4CDD-37Cl4	9.5	OK	7.9	12.7

Quantity Sample Summary Report

Sample List: C:\MSSTMT\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTMT\Default-pro\METHODS\BPA_1613B_M3211210A
 Last modified: Mon Nov 29 14:59:47 2021
 Job Code:

Printed: Sat Dec 11 09:41:55 2021

Sample Name: M3211210A15 Sample ID: Lot CS3WT1020

#	Name	RT	Area	Sec Area	Abs Resp	Ion Ratio	Ratio	Flag	Response	Flags	PS	SD	Rec	IS#	RNF
1	2,3,7,8-TCDF	24.659	161301	242923	424824	0.75	YES	YES	9.144	bb	9.411	-6	94	18	0.914
2	1,2,3,7,8-PeCDF	32.034	1024357	663663	1688020	1.54	YES	YES	44.678	bb	45.615	-9	91	19	0.894
3	2,3,4,7,8-PeCDF	33.674	1101857	720065	1821922	1.53	YES	YES	49.882	bb	45.774	-9	92	20	0.998
4	1,2,3,4,7,8-HxCDF	38.138	940032	760028	1700060	1.24	YES	YES	55.654	bb	47.995	-4	96	21	1.113
5	1,2,3,6,7,8-HxCDF	38.272	1007594	760028	1832812	1.22	YES	YES	50.242	bb	45.097	-8	92	22	1.005
6	2,3,4,6,7,8-HxCDF	38.943	957442	825218	1739128	1.23	YES	YES	56.156	bb	47.728	-5	95	23	1.123
7	1,2,3,7,8,9-HxCDF	39.768	808017	781686	1494199	1.18	YES	YES	53.238	bb	48.516	-3	97	24	1.065
8	1,2,3,4,6,7,8-HpCDF	41.478	757731	753702	1521433	1.02	YES	YES	58.379	bb	48.313	-3	97	25	1.168
9	1,2,3,4,7,8,9-HpCDF	42.777	608029	599006	1207034	1.01	YES	YES	57.191	bb	48.590	-3	97	26	1.144
10	OCDF	45.497	953170	1144758	2097927	0.83	YES	YES	126.873	bb	102.329	-2	102	32	1.269
11	2,3,7,8-TCDD	25.723	153301	196322	349522	0.78	YES	YES	12.252	bb	9.873	-1	99	27	1.225
12	1,2,3,7,8-PeCDD	34.395	752986	467201	1220197	1.61	YES	YES	56.373	bb	50.502	-1	101	28	1.127
13	1,2,3,4,7,8-HxCDD	39.118	668655	526936	1195602	1.27	YES	YES	54.371	bb	48.919	-2	98	29	1.087
14	1,2,3,6,7,8-HxCDD	39.221	793762	633467	1427229	1.25	YES	YES	55.379	bb	49.461	-1	99	30	1.108
15	1,2,3,7,8,9-HxCDD	39.561	709673	541647	1251320	1.31	YES	YES	48.553	bb	44.403	-11	89	30	0.971
16	1,2,3,4,6,7,8-HpCDD	42.426	524815	509781	1034600	1.03	YES	YES	50.434	bb	46.493	-7	93	31	1.009
17	OCDD	45.379	809186	977607	1786792	0.83	YES	YES	108.061	bb	102.475	-2	102	32	1.081
18	1,3C-2,3,7,8-TCDF	24.637	2029061	2616722	4645783	0.77	YES	YES	186.402	bb	86.918	-13	87	33	1.864
19	1,3C-1,2,3,7,8-PeCDF	32.003	2309628	1468523	3729151	1.57	YES	YES	151.590	bb	96.102	-4	96	33	1.515
20	1,3C-2,3,4,7,8-PeCDF	33.653	2232331	1420100	3652430	1.57	YES	YES	146.546	bb	95.510	-4	96	33	1.465
21	1,3C-1,2,3,4,7,8-HxCDF	38.127	1050248	2084444	3648003	0.52	YES	YES	123.665	bb	92.788	-7	93	34	1.237
22	1,3C-1,2,3,6,7,8-HxCDF	38.922	1257764	2390240	3069957	0.52	YES	YES	147.684	bb	102.909	-6	94	34	1.254
23	1,3C-2,3,4,6,7,8-HxCDF	39.757	1062786	2034171	2806566	0.55	YES	YES	113.623	bb	93.677	-9	91	34	1.477
24	1,3C-1,2,3,7,8,9-HxCDF	41.467	845884	1780131	2606115	0.48	YES	YES	105.505	bb	83.214	-17	83	34	1.136
25	1,3C-1,2,3,4,6,7,8-HpCDF	42.767	679964	1430578	2110542	0.47	YES	YES	85.442	bb	80.358	-20	80	34	0.854
26	1,3C-1,2,3,4,7,8,9-HpCDF	42.767	1285031	1568656	2853687	0.82	YES	YES	114.498	bb	98.787	-1	99	33	1.145
27	1,3C-2,3,7,8-TCDD	25.701	1344890	819609	2164499	0.82	YES	YES	86.846	bb	105.711	-2	106	33	0.868
28	1,3C-1,2,3,7,8-PeCDD	34.375	1253508	945461	2198969	1.33	YES	YES	89.022	bb	97.737	-10	110	34	0.890
29	1,3C-1,2,3,4,7,8-HxCDD	39.211	1435205	1132009	2577213	1.26	YES	YES	104.335	bb	88.204	-12	88	34	1.043
30	1,3C-1,2,3,6,7,8-HxCDD	42.416	1058065	993314	2051379	1.07	YES	YES	83.047	bb	177.422	-11	89	34	0.830
31	1,3C-1,2,3,4,6,7,8-HpCDD	45.368	1565356	1740651	3307007	0.90	YES	YES	133.879	bb	53.769	-45	54	0	2.4923.452
32	1,3C-OCDD	45.405	1126628	1365717	2492345	0.82	YES	YES	2470138.250	bb	46.467	-5	95	33	2.397
33	1,3C-1,2,3,4-TCDD	39.541	1341581	1128557	2470138	1.19	YES	YES	23.972	bb	9.521	-5	95	33	2.397
35	Cl37-2,3,7,8-TCDD	25.723	298738	298738	597477	1.00	YES	YES	-	-	29.394	-	-	18	-
36	Totals Tetra-Furans	-	0	0	0	-	-	-	-	-	44.255	-	-	27	-
37	Totals Tetra-Dioxins	-	0	0	0	-	-	-	-	-	202.528	-	-	0	-
38	Totals Penta-Furans	-	0	0	0	-	-	-	-	-	193.479	-	-	28	-
39	Totals Penta-Dioxins	-	0	0	0	-	-	-	-	-	237.077	-	-	0	-
40	Totals Hexa-Furans	-	0	0	0	-	-	-	-	-	191.610	-	-	30	-
41	Totals Hexa-Dioxins	-	0	0	0	-	-	-	-	-	97.047	-	-	0	-
42	Totals Hepta-Furans	-	0	0	0	-	-	-	-	-	104.169	-	-	31	-
43	Totals Hepta-Dioxins	-	0	0	0	-	-	-	-	-	-	-	-	0	-

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMPLSDB\M3211210A_1613
 Test modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_wln_perf/CS3

36: Totals Tetra-Furans

db5_wln_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



AutoSpec Ultima - M536

11-Dec-2021

07:24:50

1: Voltage S/R 11 Channels EI+



1: Voltage S/R 11 Channels EI+



1: Voltage S/R 11 Channels EI+



1: Voltage S/R 11 Channels EI+



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

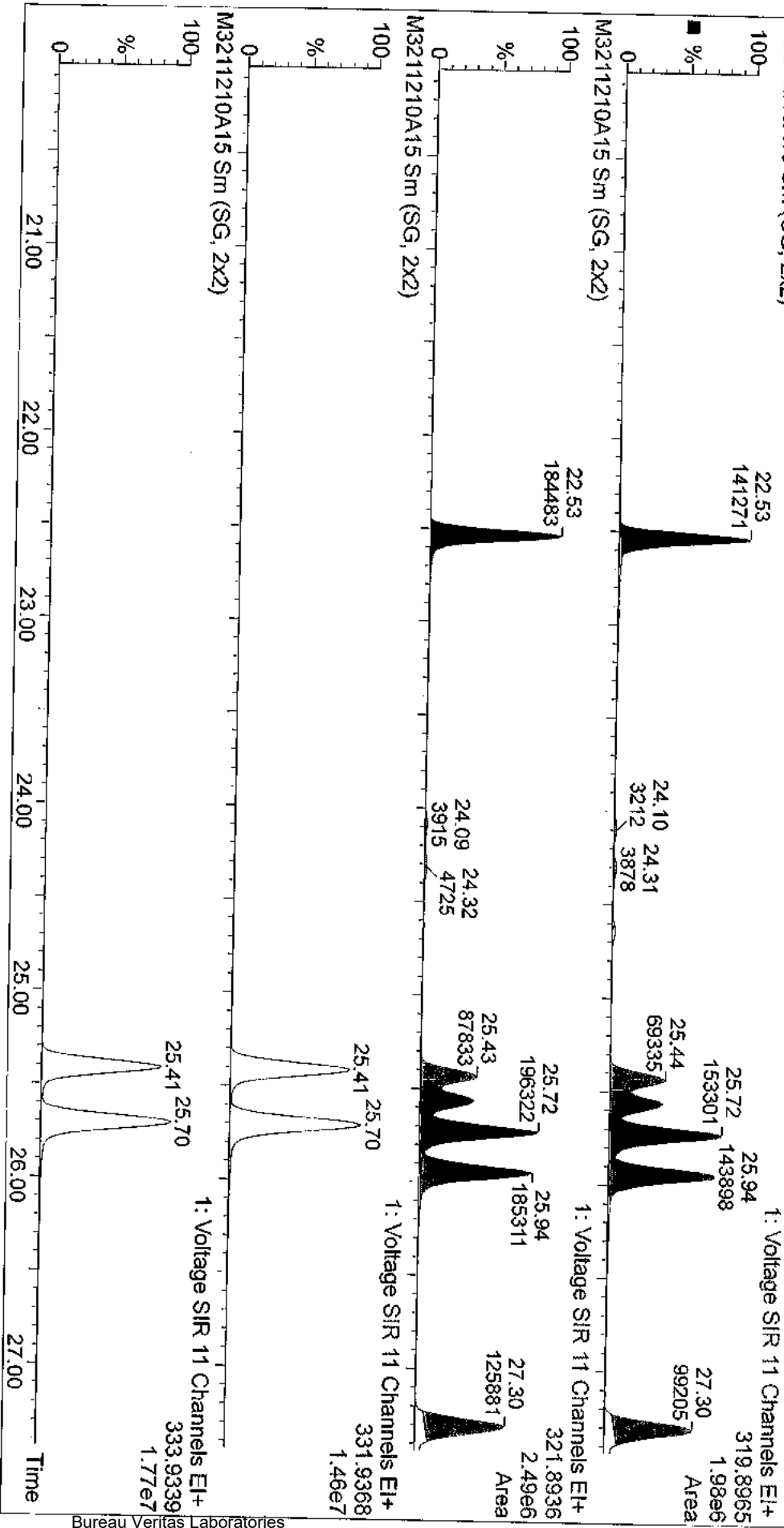
37: Total's Tetra-Dioxins

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021
 07:24:50



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMPL\EDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

35: C137-2,3,7,8-TCDD

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

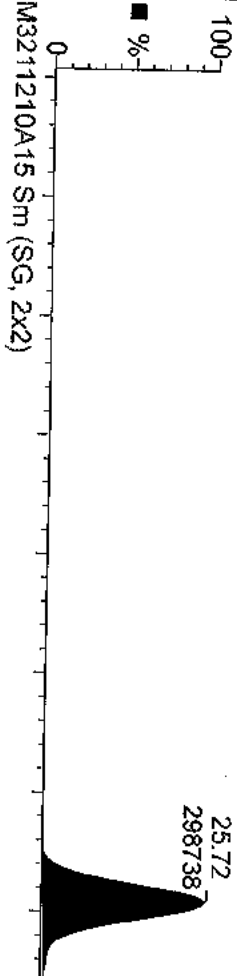
07:24:50

1: Voltage SIR 11 Channels EI+

327.8850

3.32e6

Area

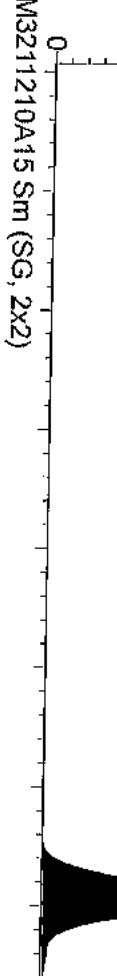


1: Voltage SIR 11 Channels EI+

327.8850

3.32e6

Area

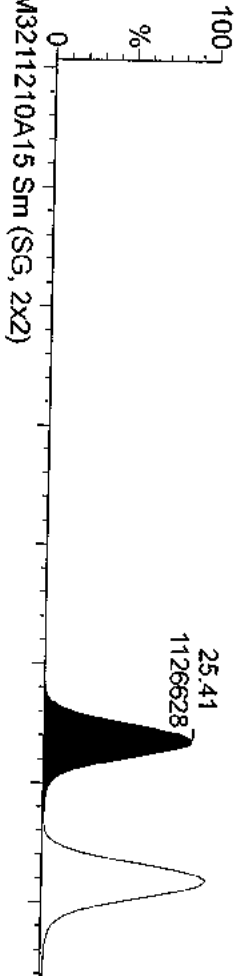


1: Voltage SIR 11 Channels EI+

331.9368

1.46e7

Area

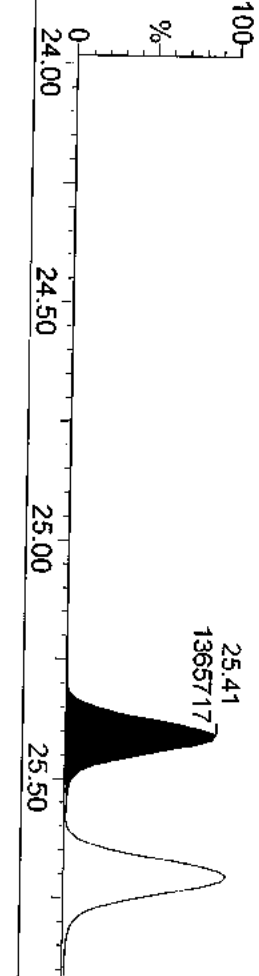


1: Voltage SIR 11 Channels EI+

333.9339

1.77e7

Area



Quantity Sample Report

Sample list: C:\MSDCHEM\Default.pro\SMFLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
Text: db5_win_perf/CS3

38: Hexa DPE

db5_win_perf/CS3
Lot CS3WT1020
M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

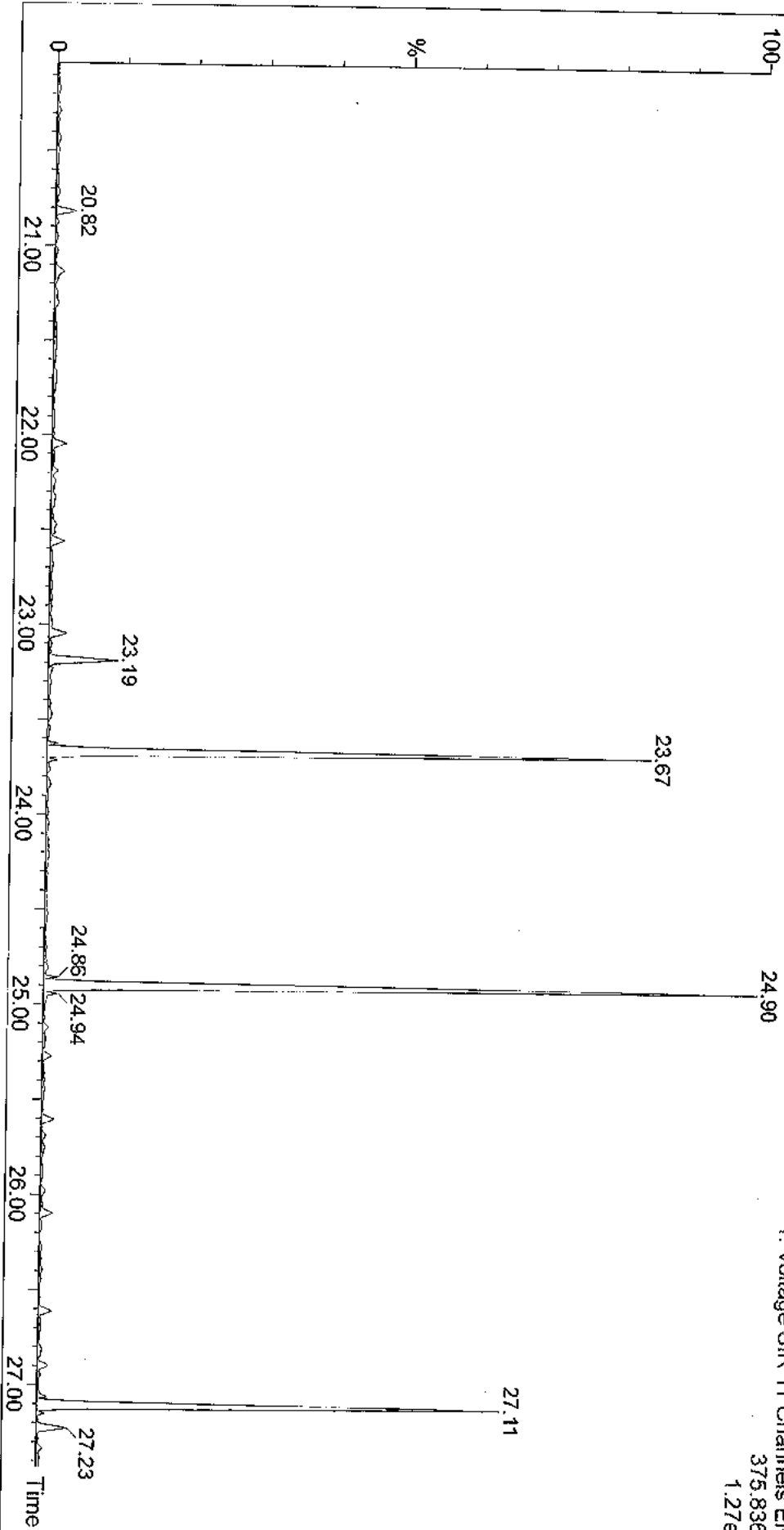
11-Dec-2021

07:24:50

1: Voltage SIR 11 Channels EI+

375.8364

1.27e3



Quantity Sample Report

Sample List: C:\MASSWIN\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSWIN\Default.pro\METHOD\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

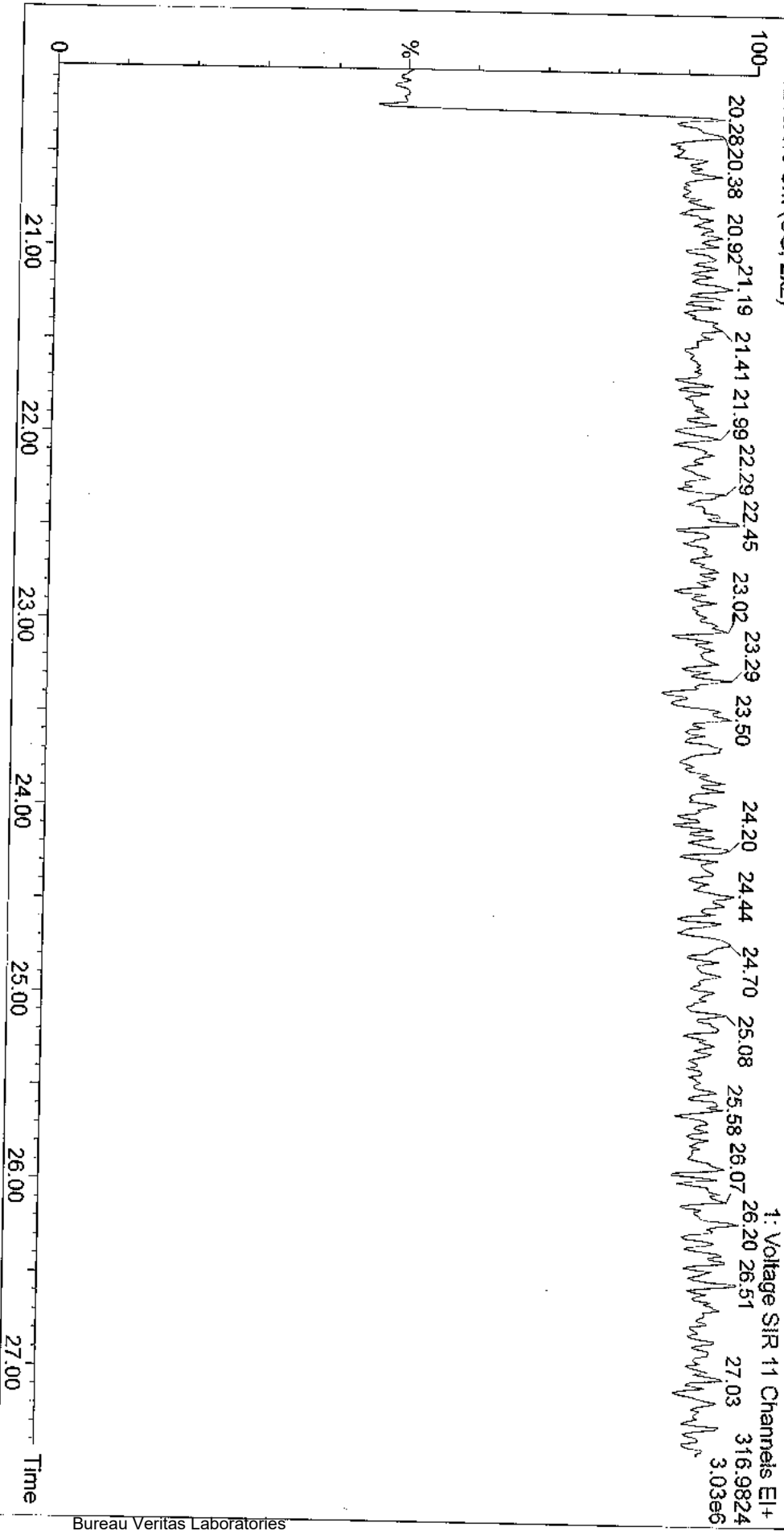
Name: M3211210A15
Text: db5_wld_perf/CS3

39: Function 1 Lockmass

db5_win_perf/CS3
Lot CS3WT1020
M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021
07:24:50



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SMFLMDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

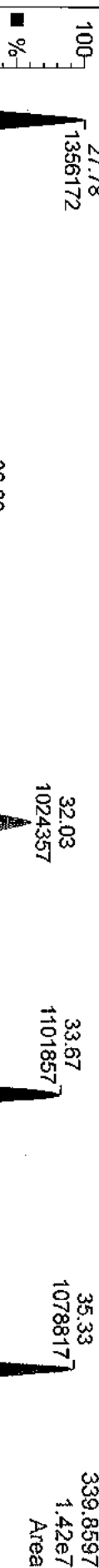
Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Test: db5_wln_perf/CS3

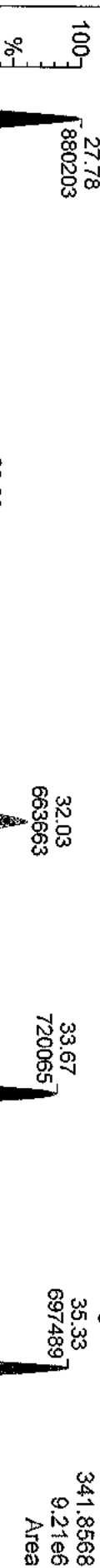
40: Totals Penta-Furans

db5_wln_perf/CS3 Lot CS3WT1020

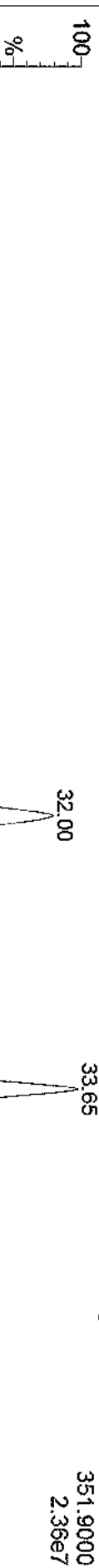
M3211210A15 Sm (SG, 2x2)



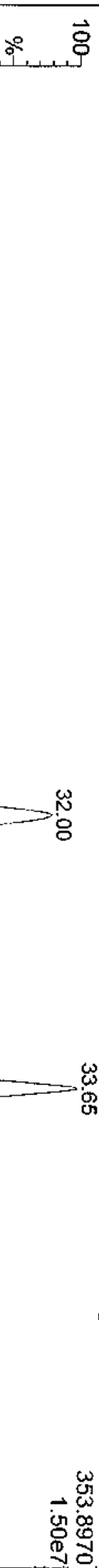
M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



AutoSpec Ultima - M536

11-Dec-2021
 07:24:50

2: Voltage SIR 10 Channels EI+

339.8597
 1.42e7
 Area

2: Voltage SIR 10 Channels EI+

341.8568
 9.21e6
 Area

2: Voltage SIR 10 Channels EI+

351.9000
 2.36e7

2: Voltage SIR 10 Channels EI+

353.8970
 1.50e7

Quantify Sample Report

Sample List: C:\MASSLINTX\Default-pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLINTX\Default-pro\METHOD\M3211127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

41. Totals Penta-Dioxine

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021
 07:24:50



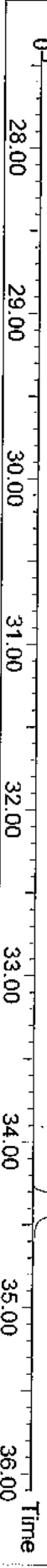
M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



Quantity Sample Report

Sample Id: C:\MASSLIVE\Default.pro\SMPTEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLIVE\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

42: Hepa DPE

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2X2)

AutoSpec Ultima - M536

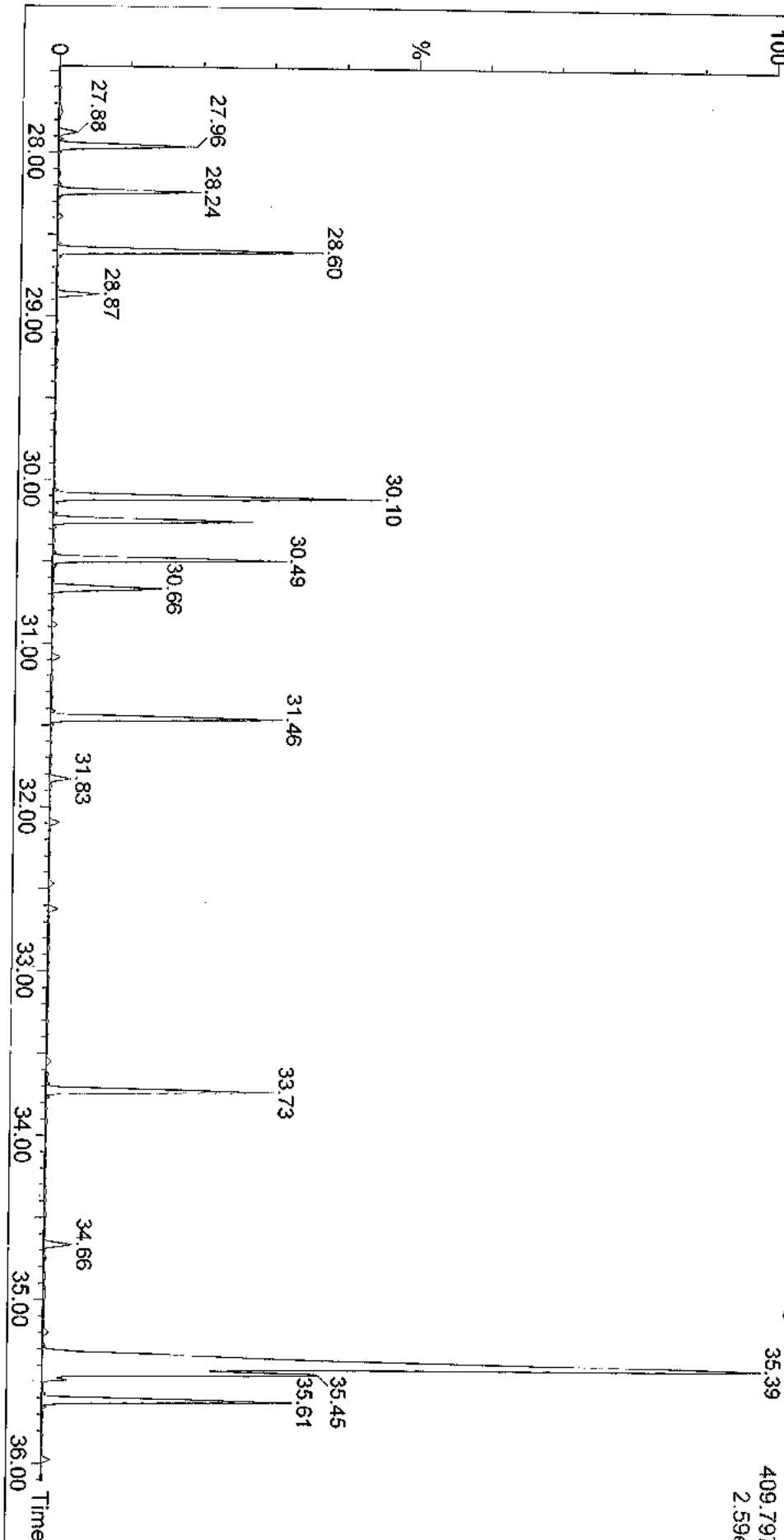
11-Dec-2021

07:24:50

2: Voltage SFR 10 Channels EI+

35.39 409.7974

2.59e3



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211217A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

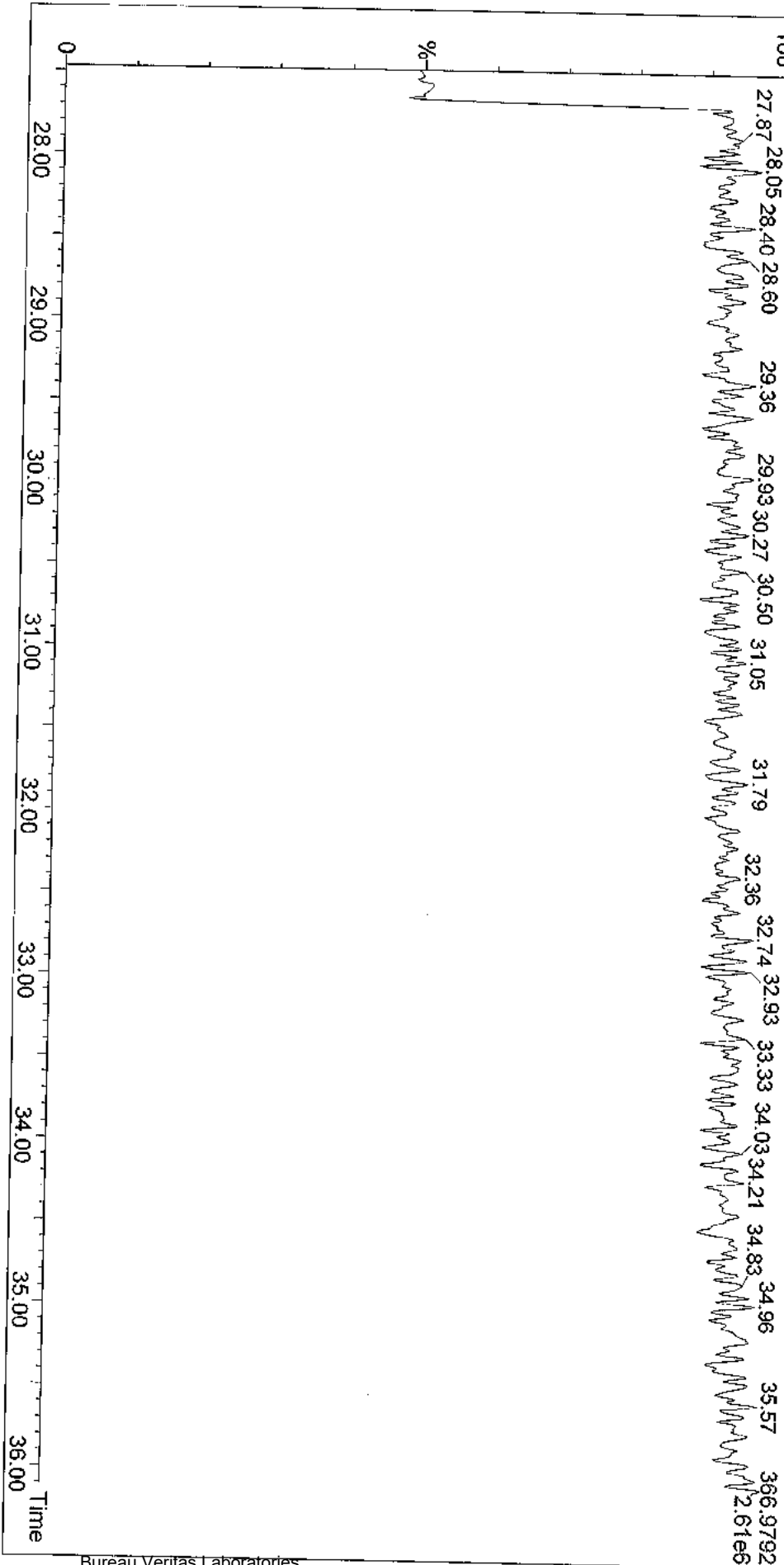
43: Function 2 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020
 M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021
 07:24:50

2: Voltage SIR 10 Channels EI+



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SMPLDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

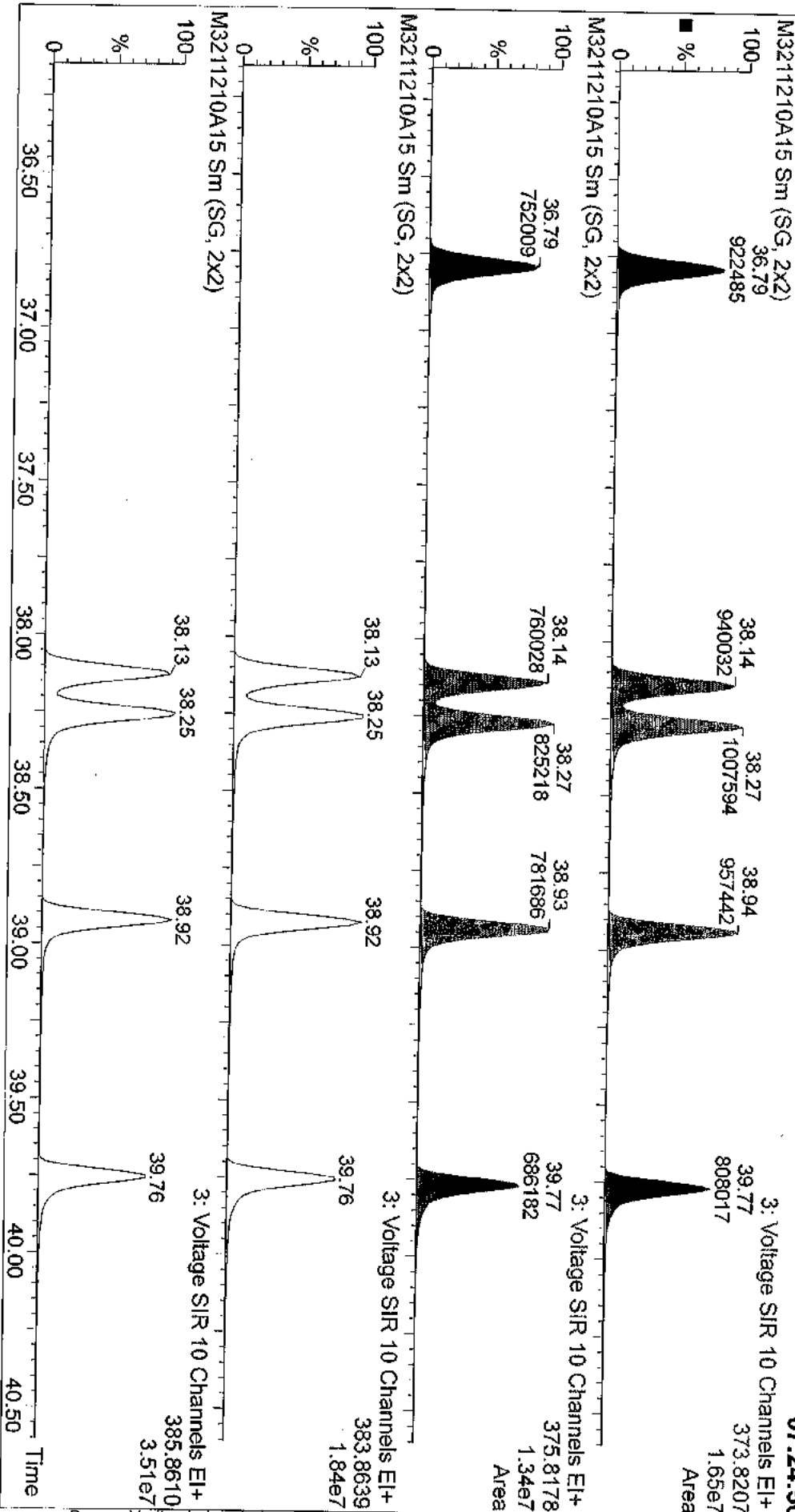
44: Totals Hexa-Furans

db5_win_perf/CS3
 Lot CS3WT1020

AutoSpec Ultima - M536

11-Dec-2021

07:24:50



Quantity Sample Report

Sample list: C:\MASSL\DATA\Default-pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSL\DATA\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

45: Totals Hexa-Dioxins

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

07:24:50



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211217A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_wla_perf/CS3

46: Octa DPB

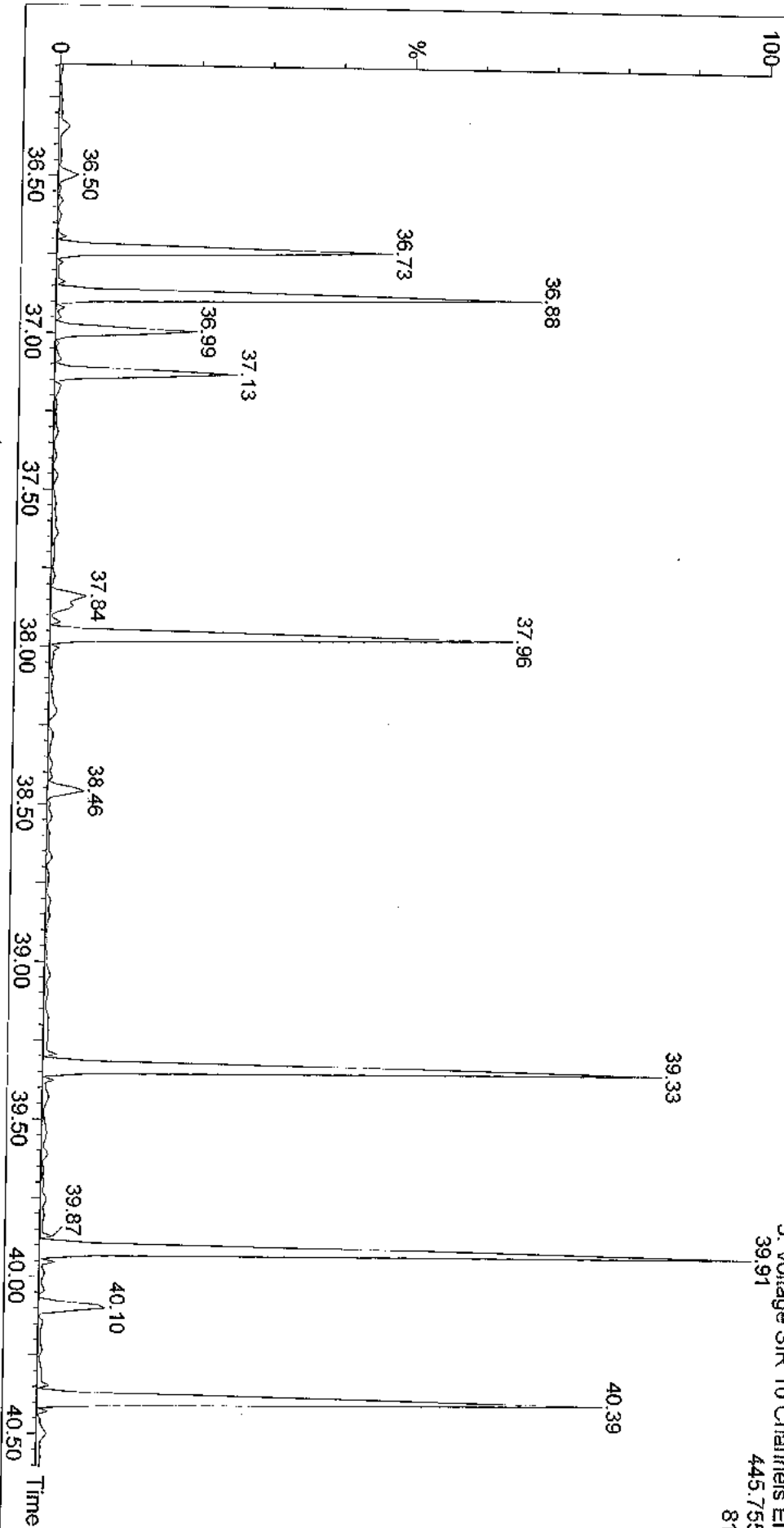
db5_wla_perf/CS3
 Lot CS3WT1020
 M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

07:24:50

3: Voltage SIR 10 Channels EI+
 39.91 445.7555 815



Quantity Sample Report

Sample List: C:\MASSLYNX\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

47: Function 3 Lockmass

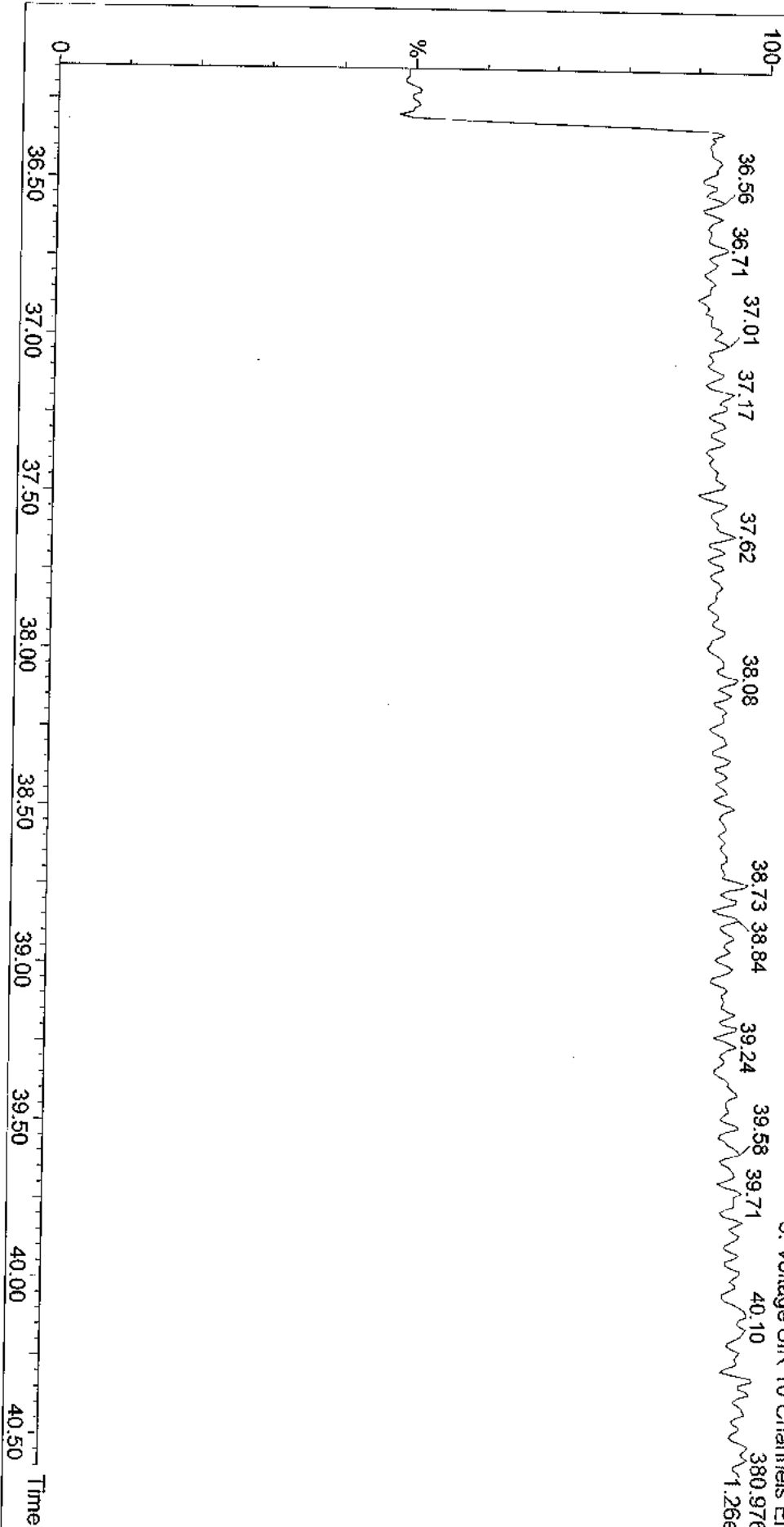
db5_win_perf/CS3
 Lot CS3WT1020
 M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021
 07:24:50

3: Voltage S/R 10 Channels EI+

380.9760
 1.26e7



Quantify Sample Report

Sample List: C:\MASSLINK\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLINK\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_wln_perf/CS3

48: Totals Hepta-Furans

db5_wln_perf/CS3
 Lot CS3WT1020

AutoSpec Ultima - M536

11-Dec-2021

07:24:50

M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

49: Totals Hepta-Dioxine

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

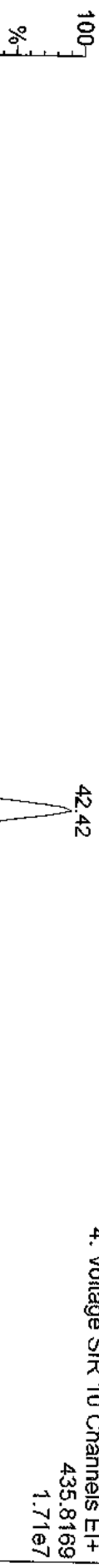
07:24:50



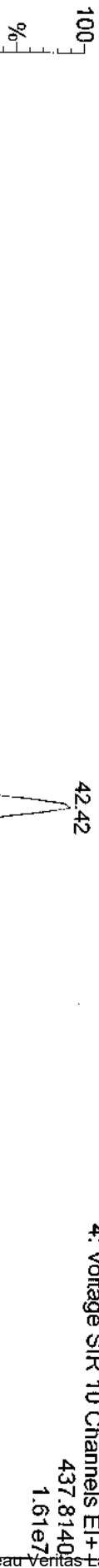
M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



Quantity Sample Report

Sample Inet: C:\MASSVIEW\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

50: Nona DPE

db5_win_perf/CS3
 Lot CS3WT1020
 M3211210A15 Sm (SG, 2X2)

AutoSpec Ultima - M536

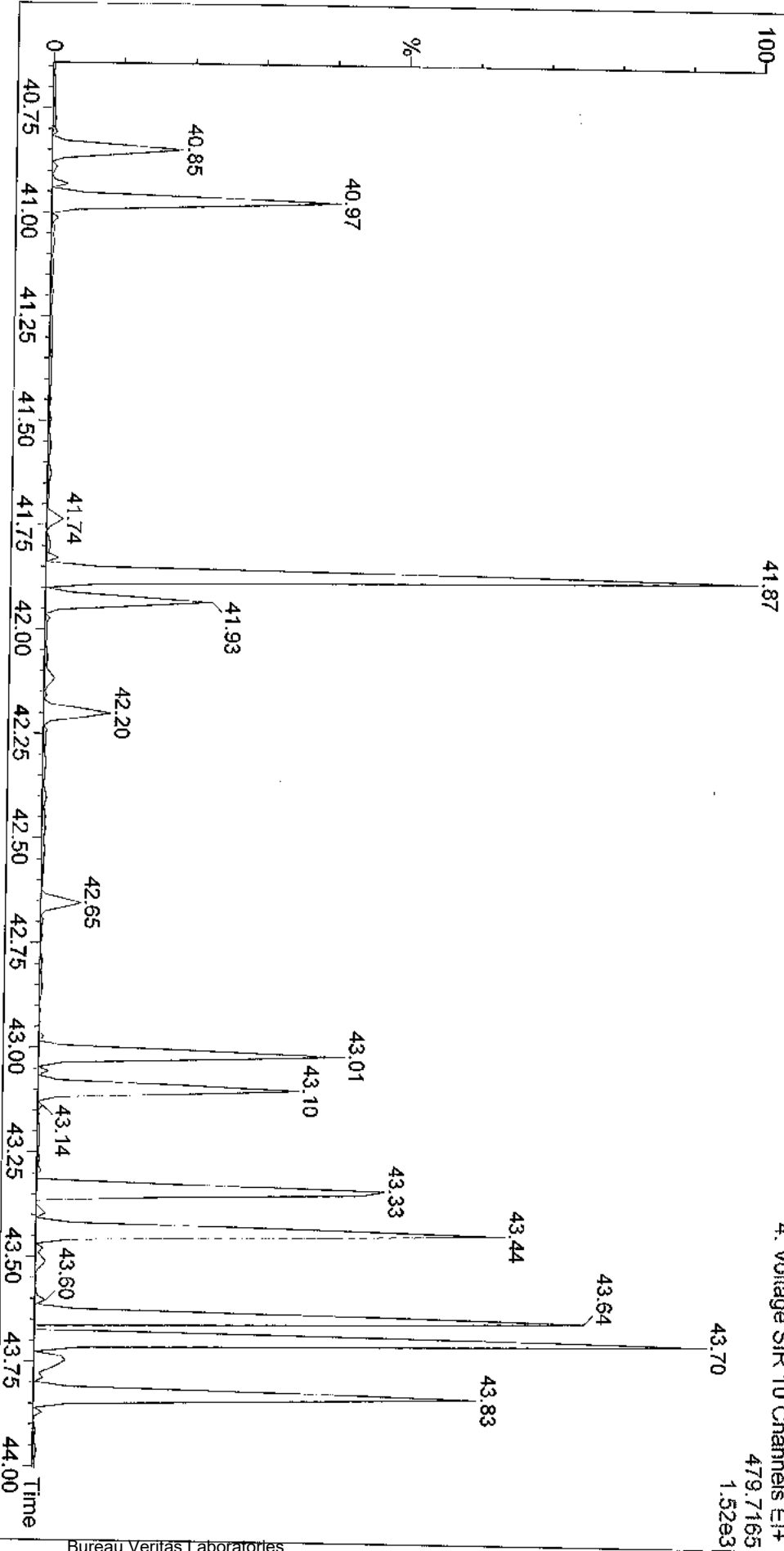
11-Dec-2021

07:24:50

4: Voltage SIF 10 Channels EI+

479.7165

1.52e3



Quantity Sample Report

Sample list: C:\MSDCHEM\Default.pro\SMPLMDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

SI: Function 4 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

07:24:50

4: Voltage SIR 10 Channels EI+

43.52

430.9728

7.65e6

40.84

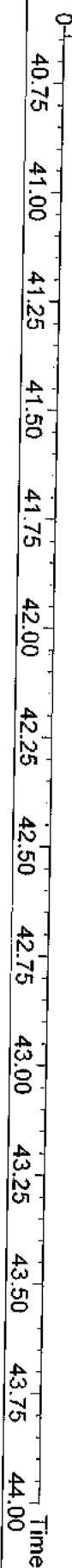
41.53

41.84

42.35

42.57

40.77



Quantify Sample Report

Sample Id: C:\MASSVIEW\Default.pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default.pro\METHOD\M3211210A_HC_1613
 Test Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_wm_perf/cs3

10: OCPD

db5_wm_perf/cs3
 Lot CS3WT1020

AutoSpec Ultima - M536

11-Dec-2021

M3211210A15 Sm (SG, 2x2)

07:24:50



M3211210A15 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+



M3211210A15 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+



M3211210A15 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+



Quantity Sample Report

Sample list: C:\MASSLYNX\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default-pro\METHOD\M321121A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_win_perf/CS3

17: ODDD

db5_win_perf/CS3
 Lot CS3WT1020

AutoSpec Ultima - M536

11-Dec-2021

07:24:50

M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



M3211210A15 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-Pro\SMFLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default-Pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_wln_perf/CS3

52: Decca DPS

db5_wln_perf/CS3
 Lot CS3WT1020

M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

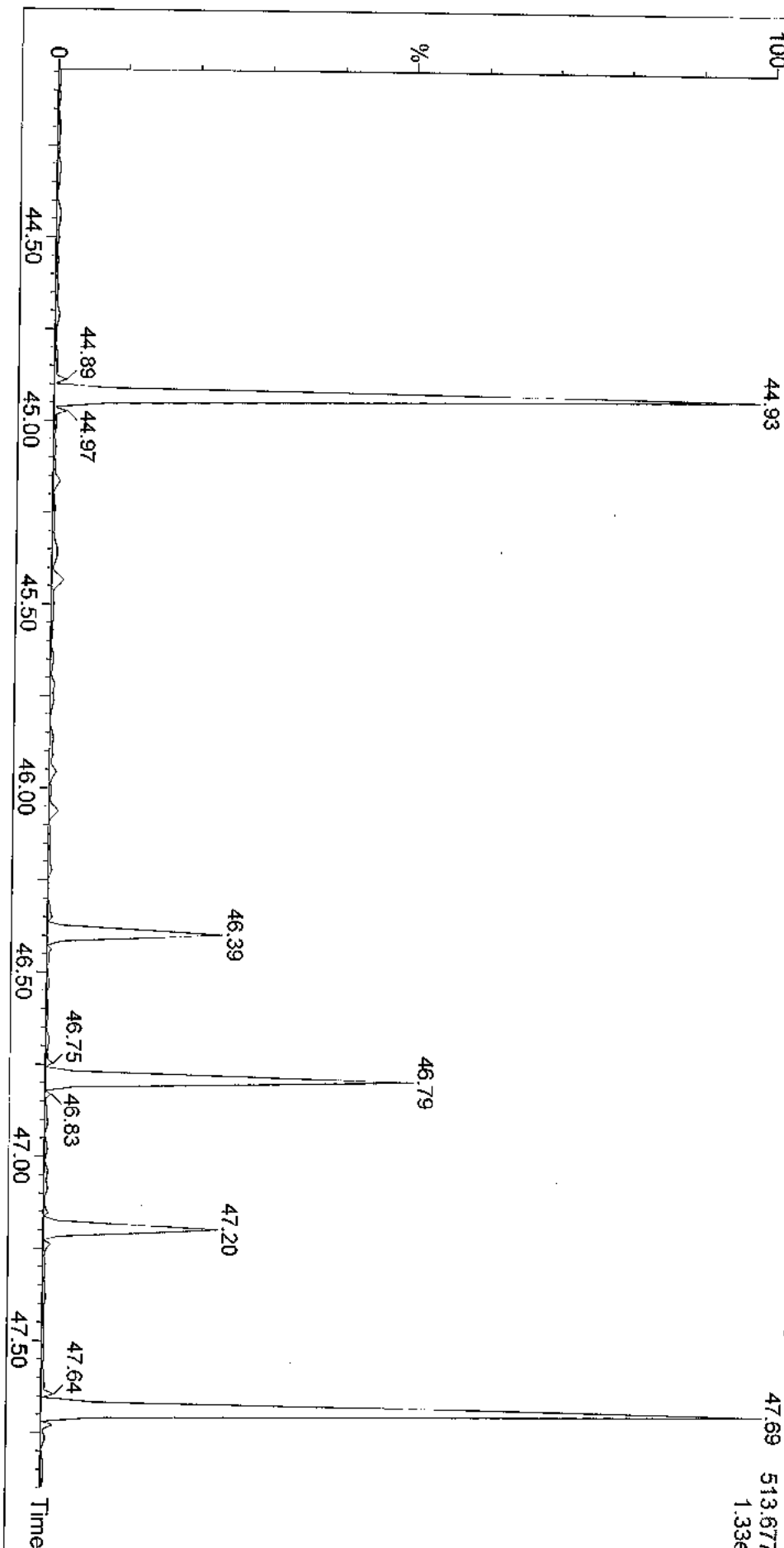
11-Dec-2021

07:24:50

5: Voltage S/R 8 Channels EI+

47.69 513.6775

1.33e3



Quantity Sample Report

Sample List: C:\MASSLYNX\Default-Pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default-Pro\METHOD\M3211210A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A15
 Text: db5_wln_perf/CS3

53: Function 5 LockMass

db5_wln_perf/CS3
 Lot CS3WT1020
 M3211210A15 Sm (SG, 2x2)

AutoSpec Ultima - M536

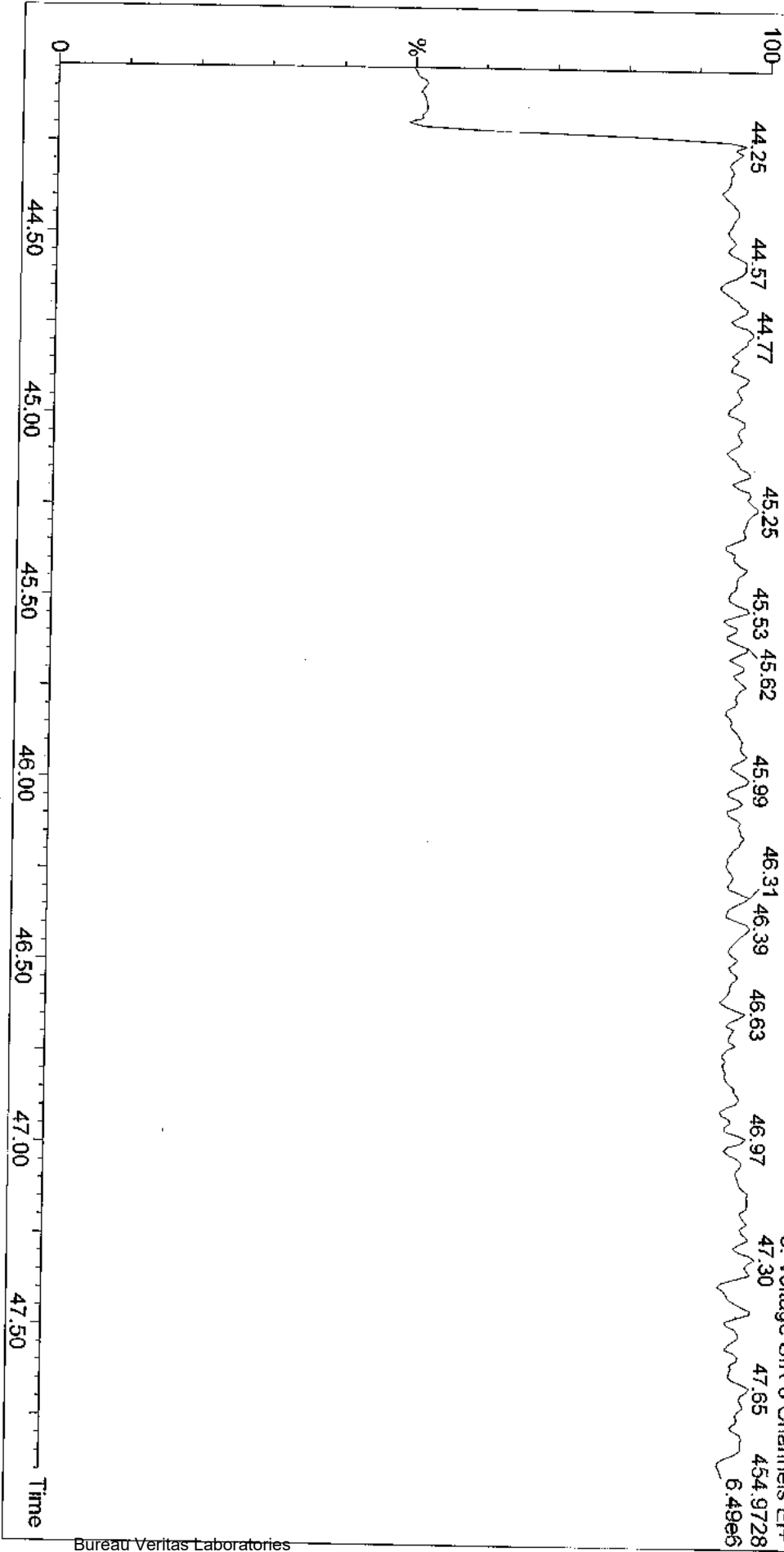
11-Dec-2021

07:24:50

5: Voltage S/R 8 Channels EI+

47.30 47.65 454.9728

6.48e6



Experiment Calibration Report

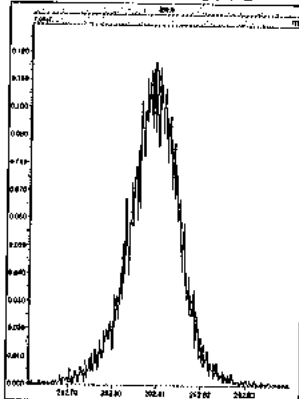
MassLynx 4.1

Page 1 of 1

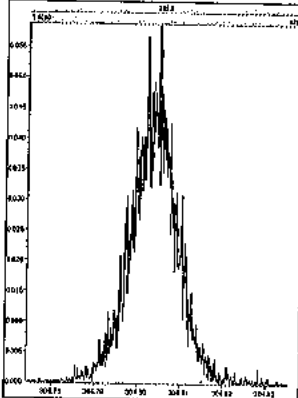
File: Experiment: 1613_ult3.exp Reference: plk.ref Function: 1 @ 200 (ppm)

Printed: Friday, December 10, 2021 10:15:33 Eastern Standard Time

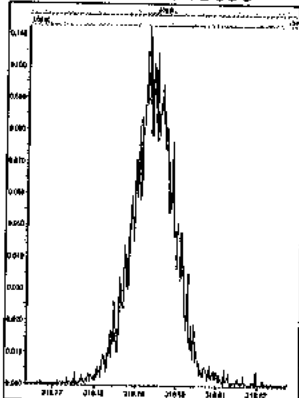
M 292.9824 R 10775



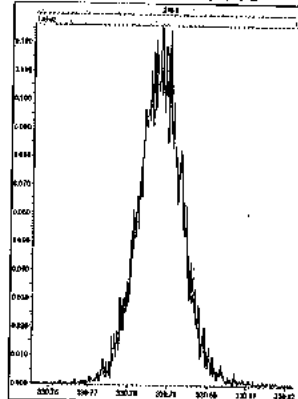
M 304.9824 R 11740



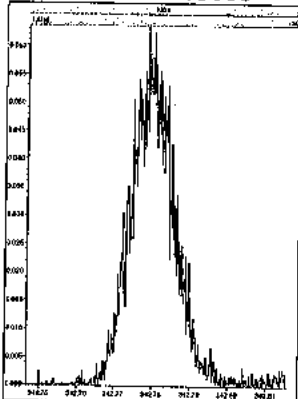
M 318.9792 R 13656



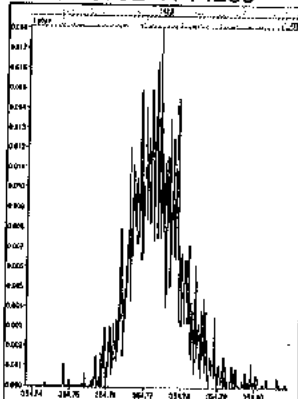
M 330.9792 R 13446



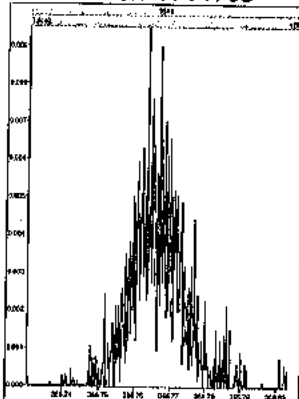
M 342.9792 R 13663



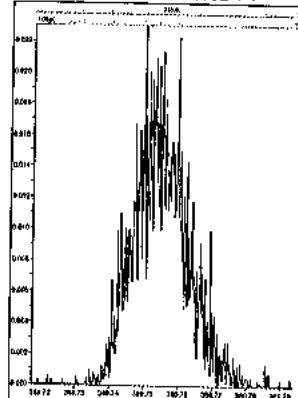
M 354.9792 R 14285



M 366.9792 R 14703



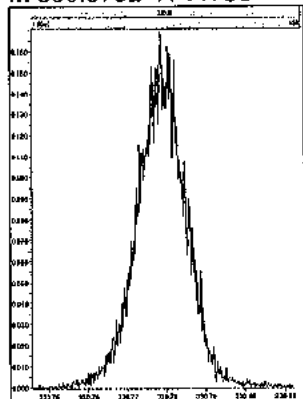
M 380.9760 R 12311



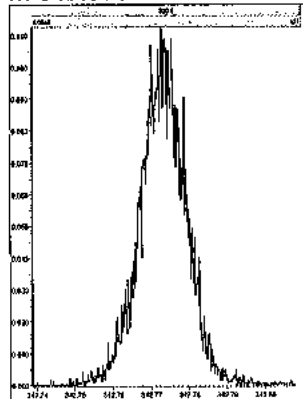
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, December 10, 2021 10:19:30 Eastern Standard Time

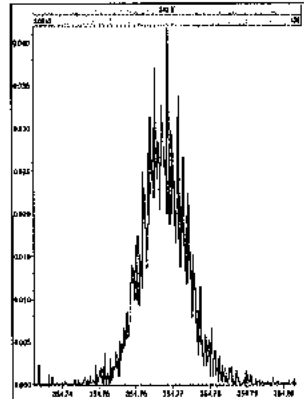
M 330.9792 R 11735



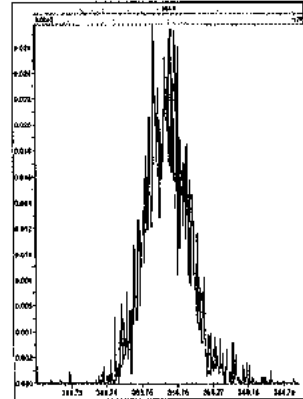
M 342.9792 R 12378



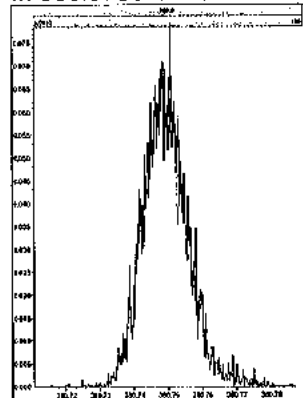
M 354.9792 R 14367



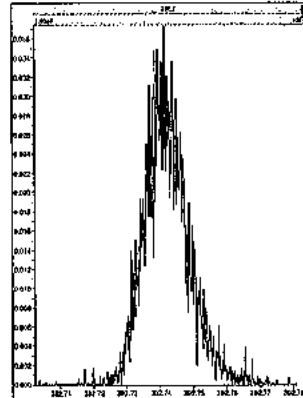
M 366.9792 R 17603



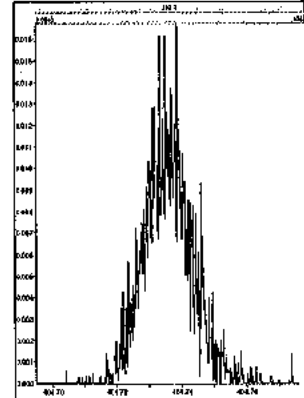
M 380.9760 R 13515



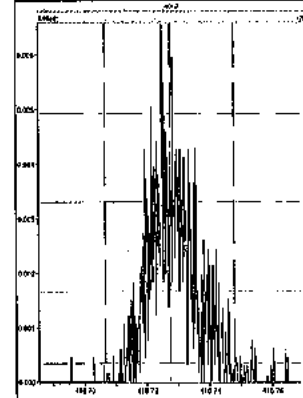
M 392.9760 R 14285



M 404.9760 R 17608



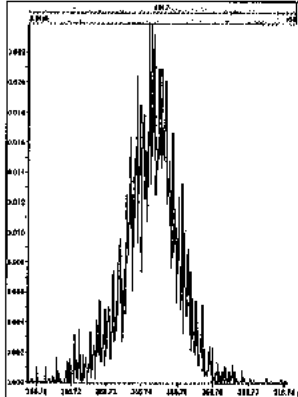
M 416.9760 R 19841



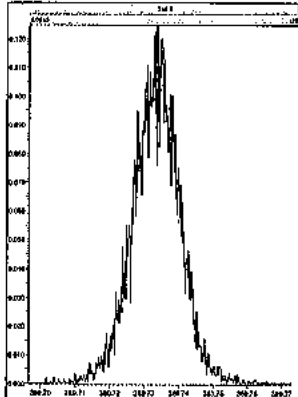
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, December 10, 2021 10:20:06 Eastern Standard Time

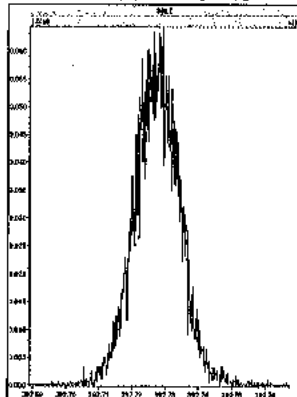
M 366.9792 R 12692



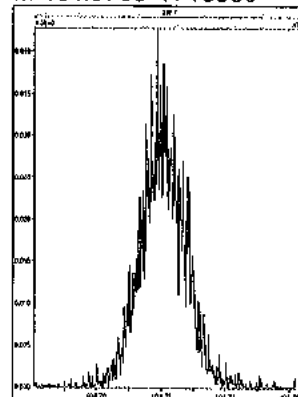
M 380.9760 R 11849



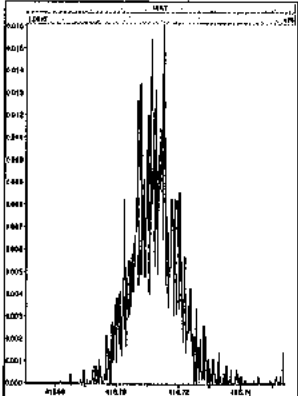
M 392.9760 R 13226



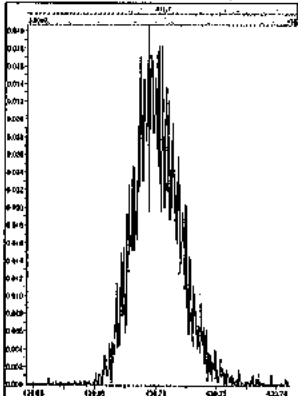
M 404.9760 R 15339



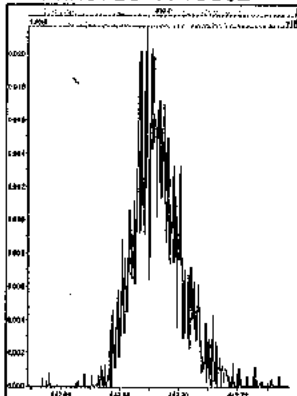
M 416.9760 R 15527



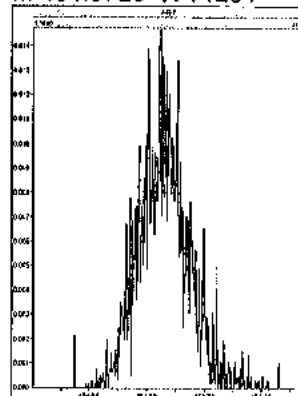
M 430.9728 R 13887



M 442.9728 R 13662



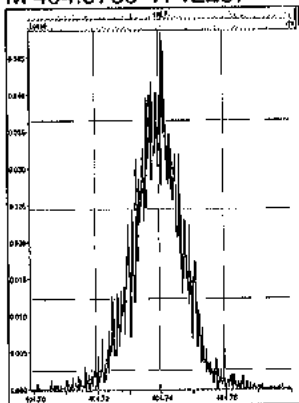
M 454.9728 R 14284



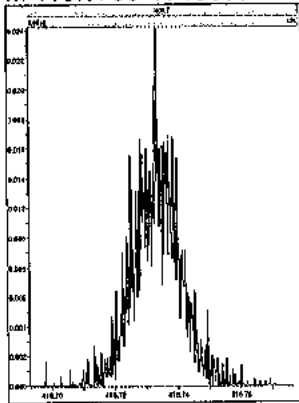
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, December 10, 2021 10:20:43 Eastern Standard Time

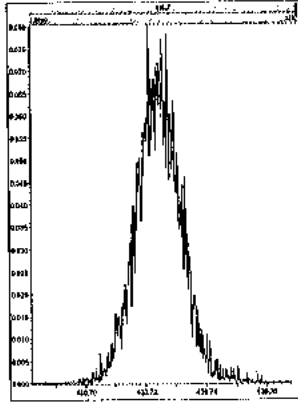
M 404.9760 R 12257



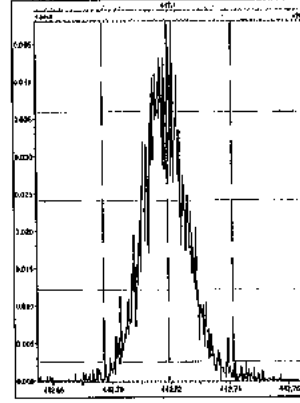
M 416.9760 R 15060



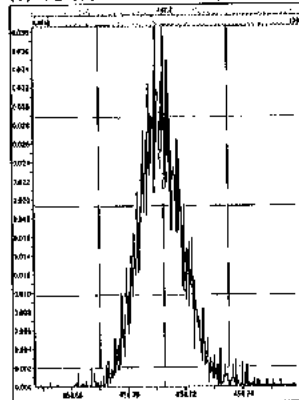
M 430.9728 R 12819



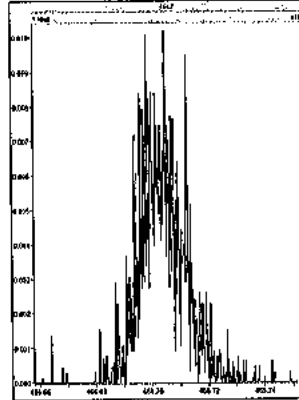
M 442.9728 R 12883



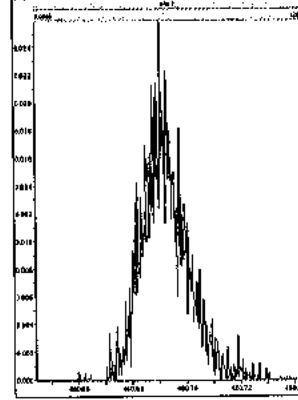
M 454.9728 R 14534



M 466.9728 R 18943



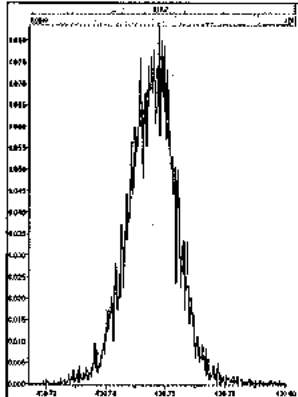
M 480.9696 R 14205



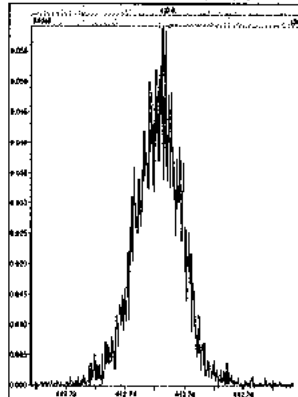
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, December 10, 2021 10:21:16 Eastern Standard Time

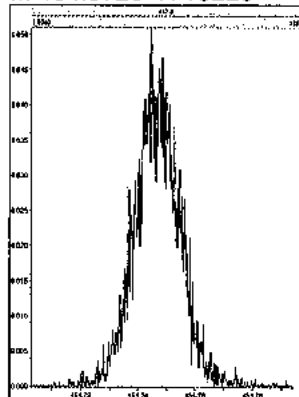
M 430.9728 R 11961



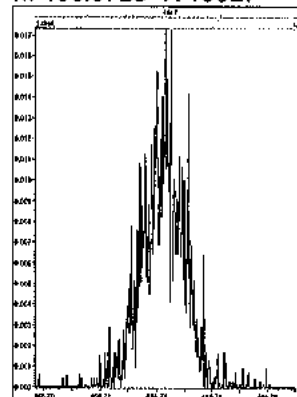
M 442.9728 R 13156



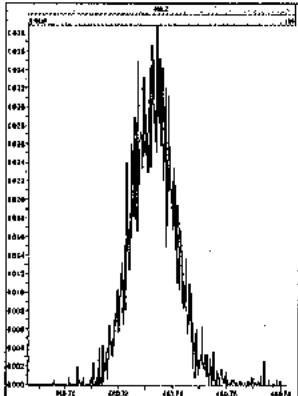
M 454.9728 R 13228



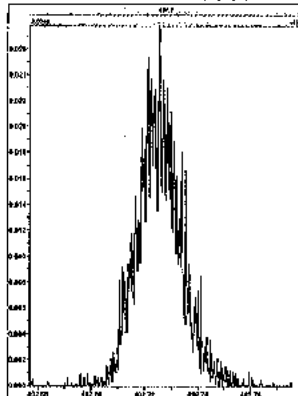
M 466.9728 R 15927



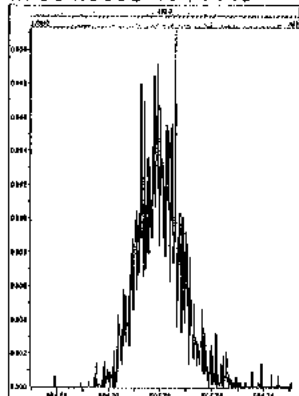
M 480.9696 R 14703



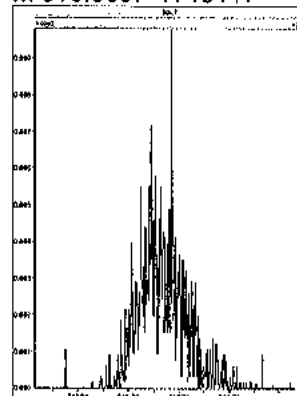
M 492.9696 R 13509



M 504.9696 R 14449



M 516.9697 R 18117



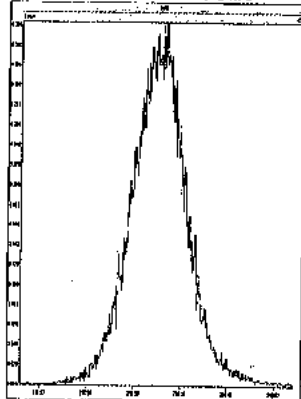
Experiment Calibration Report**MassLynx 4.1**

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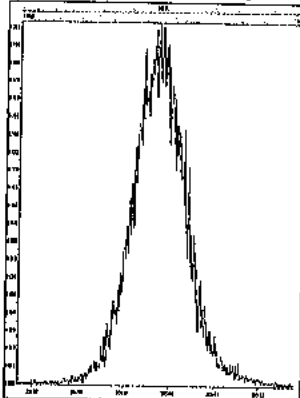
File: Experiment: 1613_ult3.exp Reference: plk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, December 11, 2021 08:25:25 Eastern Standard Time

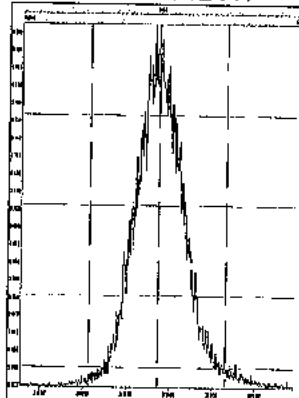
M 292.9824 R 10823



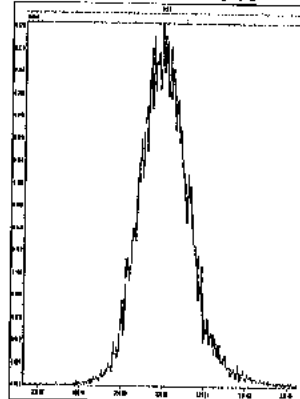
M 304.9824 R 11260



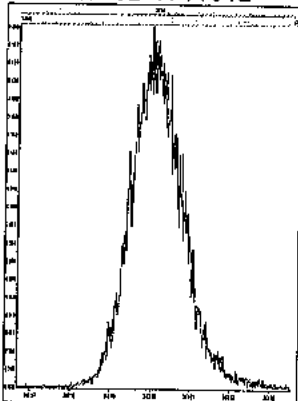
M 318.9792 R 12441



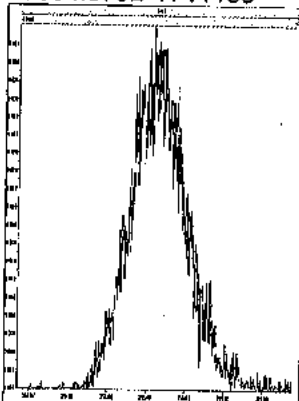
M 330.9792 R 11849



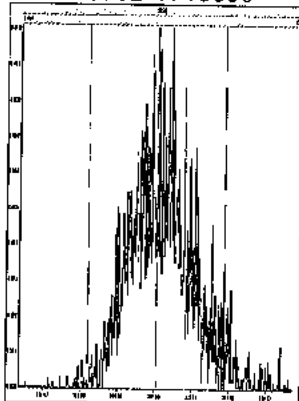
M 342.9792 R 11012



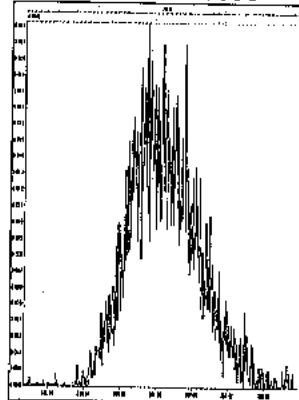
M 354.9792 R 11158



M 366.9792 R 13890



M 380.9760 R 10683



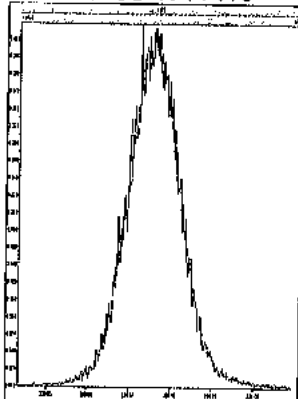
Experiment Calibration Report**MassLynx 4.1**

Page 1 of 1

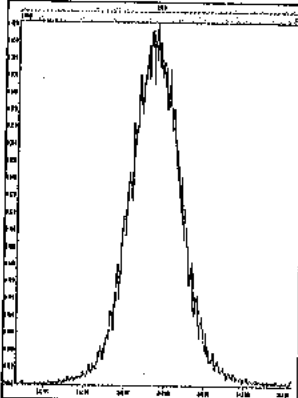
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, December 11, 2021 08:26:09 Eastern Standard Time

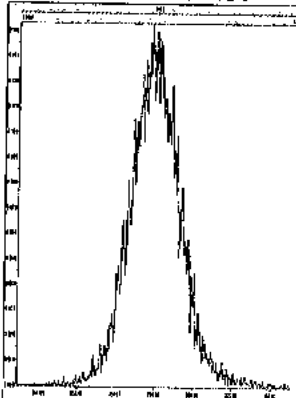
M 330.9792 R 11415



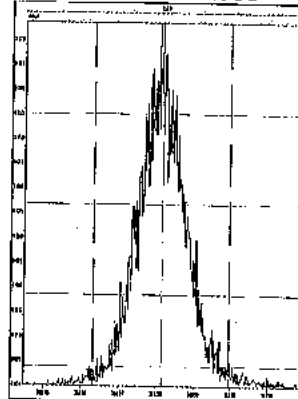
M 342.9792 R 11631



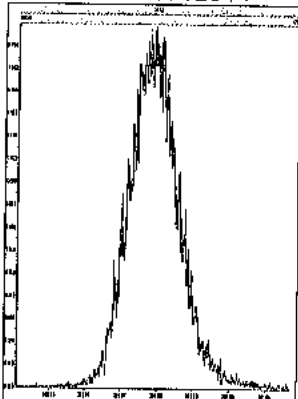
M 354.9792 R 12439



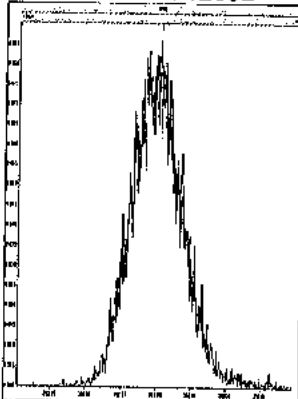
M 366.9792 R 12886



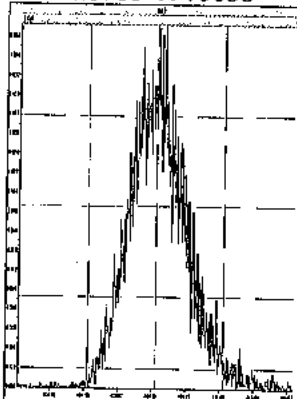
M 380.9760 R 12314



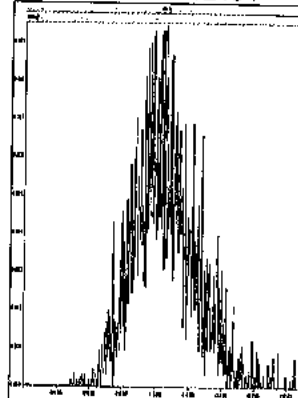
M 392.9760 R 12692



M 404.9760 R 10638



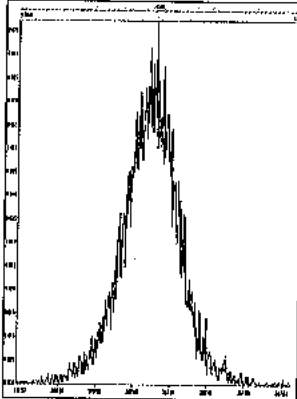
M 416.9760 R 12134



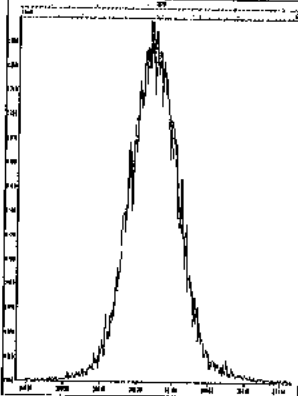
File: Experiment: 1613_ult3.exp Reference: plk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, December 11, 2021 08:26:40 Eastern Standard Time

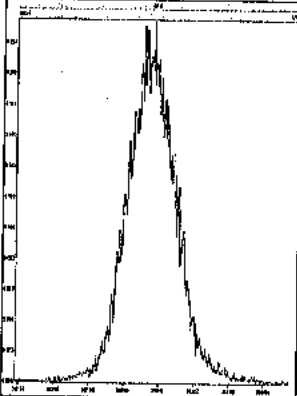
M 366.9792 R 11516



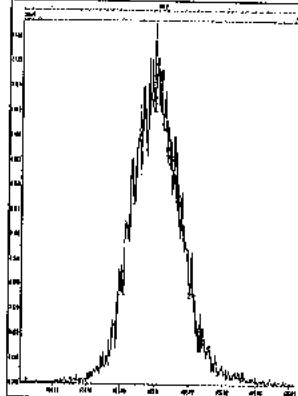
M 380.9760 R 12315



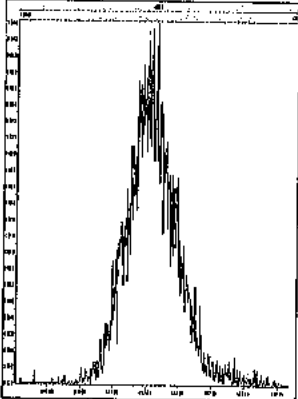
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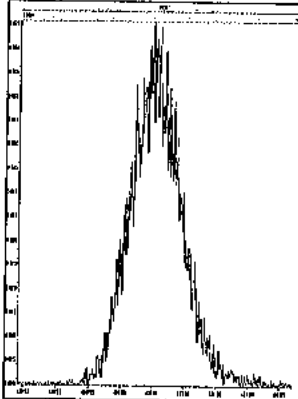
M 404.9760 R 12256



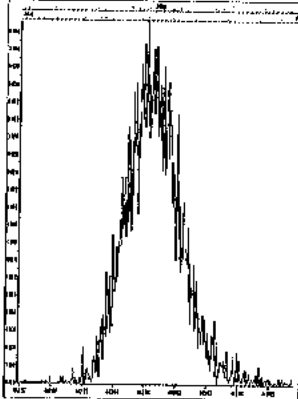
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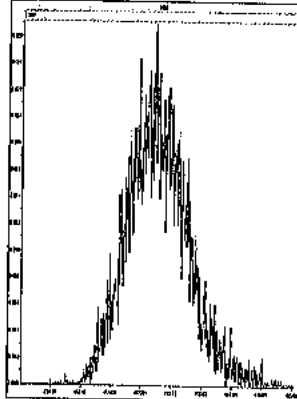
M 430.9728 R 12075



M 442.9728 R 11906



M 454.9728 R 11574



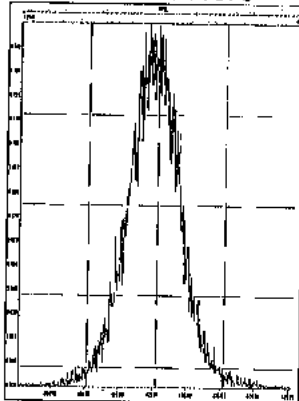
Experiment Calibration Report**MassLynx 4.1**

Page 1 of 1

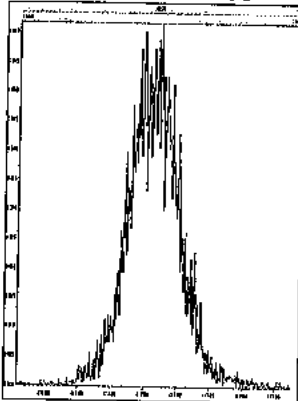
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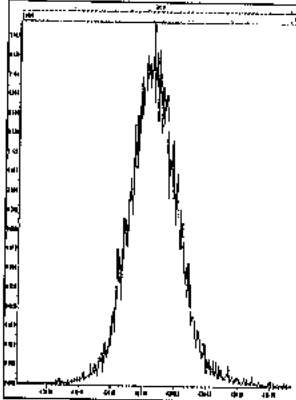
M 404.9760 R 11575



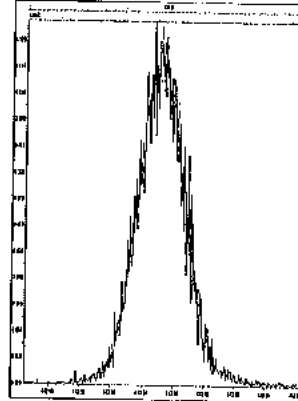
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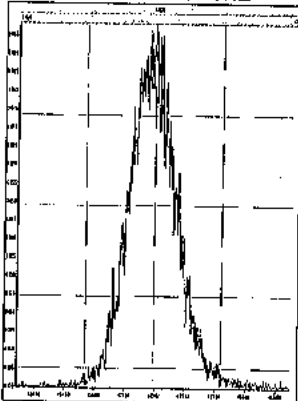
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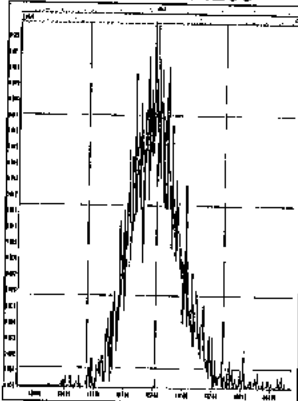
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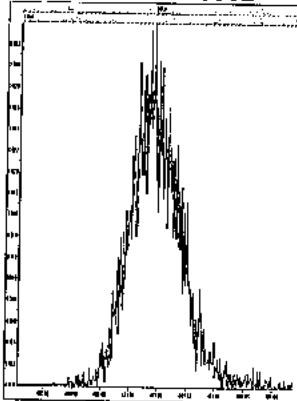
M 454.9728 R 12622



M 466.9728 R 14203



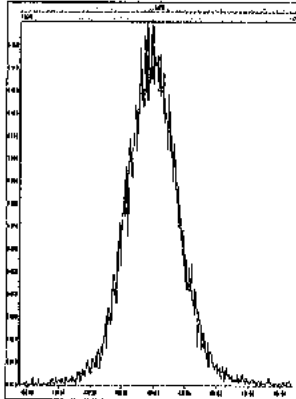
M 480.9696 R 15062



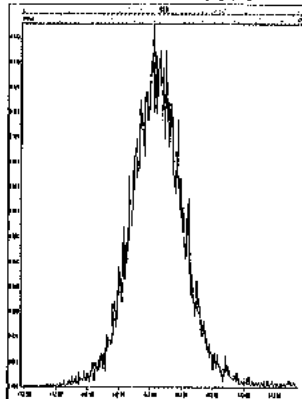
File: Experiment: 1613_ult3.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, December 11, 2021 08:27:41 Eastern Standard Time

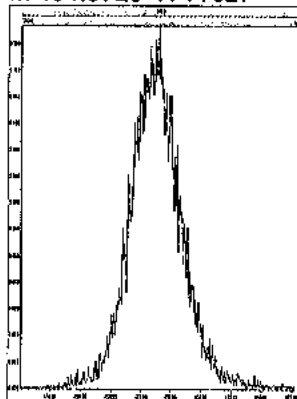
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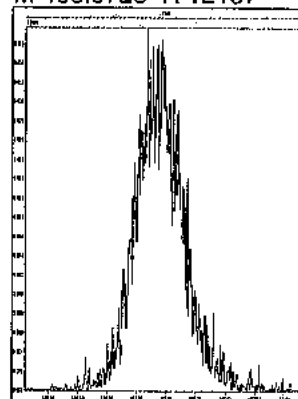
M 442.9728 R 10870



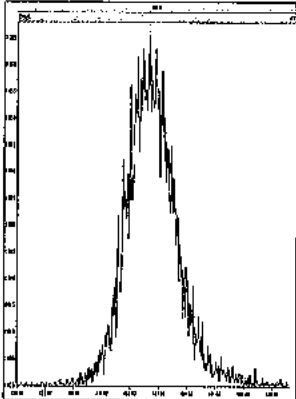
M 454.9728 R 11627



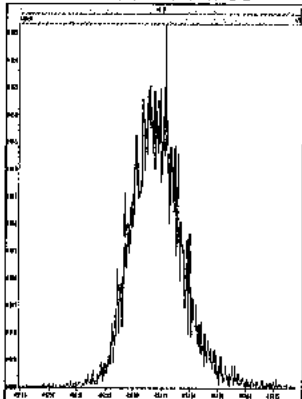
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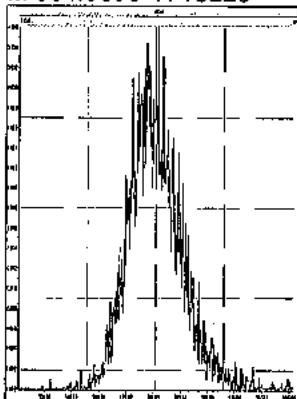
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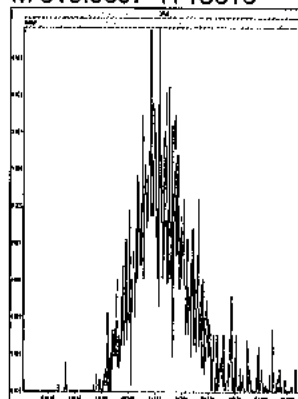
M 492.9696 R 12755



M 504.9696 R 13226



M 516.9697 R 13813





4.2 QA/QC Data

**Bureau Veritas Canada (2019)
Inc.
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.bvlabs.com**

M3211209A - 1613

Bottle	File Name	File Text	Sample ID	MS File
19	M3211209A01	db5_win_perf/CS3	Lot CS3WT1020	1613_ult3
1	M3211209A02	SPIKE	HR20211124, 1613-S	1613_ult3
2	M3211209A03	MATSPK%, REZ818	HR20211124, 1613-S	1613_ult3
3	M3211209A04	MATSPK%:D1, REZ818	HR20211124, 1613-S	1613_ult3
4	M3211209A05	SOLVENT	SOLVENT	1613_ult3
5	M3211209A06	SOLVENT	SOLVENT	1613_ult3
6	M3211209A07	BLANK	PINCHIN HR211202, 1613-S, PINCHIN	1613_ult3
7	M3211209A08	RGT705-01R	PINCHIN, DF1613-S	1613_ult3
8	M3211209A09	RGT706-01R	DF1613-S	1613_ult3
9	M3211209A10	RGT707-01R	DF1613-S	1613_ult3
10	M3211209A11	RGT708-01R	DF1613-S	1613_ult3
11	M3211209A12	SPIKE	PINCHIN HR211202, 1613-S, PINCHIN	1613_ult3
12	M3211209A13	MATSPK%, RGT705	PINCHIN HR211202, 1613-S, PINCHIN	1613_ult3
13	M3211209A14	MATSPK%:D1, RGT705	PINCHIN HR211202, 1613-S, PINCHIN	1613_ult3
19	M3211209A15	db5_win_perf/CS3	Lot CS3WT1020	1613_ult3

M3211127A - 1613 5PK

WS# : 7716247

Page #: 1/2



Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Thursday, December 9, 2021

Assigned to : Angel Guerrero

Test Code : DF1613-S

Instrument Id:

Test Description : To determine Dioxins and Furans by High Resolution Gas Spectrophotometer. (EPA 1613B)

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	MTRX SPK	0	1613P REZ818-01										2021/11/24
	MTRX SPK	1	1613P REZ818-01										2021/11/24
	SPIKE		1613P										2021/11/24
	BLANK												2021/11/24
CIU8090	QZV226-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
CIU8090	QZV229-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
CIU8090	QZV230-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
CIU8090	QZV231-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
CIX2301	REZ784-01R		PDI-CORE-29E-02-*						1	2021/12/08	2021/12/01 23:00		2021/11/24
CIX2301	REZ785-01R		PDI-CORE-129E-0*						1	2021/12/08	2021/12/01 23:00		2021/11/24
CIX2305	REZ798-01R		PDI-CORE-01-A-07*						1	2021/11/18	2021/12/01 23:00		2021/11/24
CIX2305	REZ799-01R		PDI-CORE-01-A-08*						1	2021/11/18	2021/12/01 23:00		2021/11/24
CIX2305	REZ800-01R		PDI-CORE-03-B-04*						1	2021/11/19	2021/12/01 23:00		2021/11/24
CIX2305	REZ801-01R		PDI-CORE-03-B-05*						1	2021/11/19	2021/12/01 23:00		2021/11/24
CIX2305	REZ812-01R		PDI-CORE-103-B-0*						1	2021/11/19	2021/12/01 23:00		2021/11/24
CIX2305	REZ817-01R		PDI-CORE-04-B-05*						1	2021/11/19	2021/12/01 23:00		2021/11/24
CIX2305	REZ818-01R		PDI-CORE-04-B-06*						1	2021/11/19	2021/12/01 23:00		2021/11/24
CIX2314	REZ849-01R		PDI-CORE-05B-05-*						1	2021/11/20	2021/12/01 23:00		2021/11/24
CIX2314	REZ850-01R		PDI-CORE-05B-06-*						1	2021/11/20	2021/12/01 23:00		2021/11/24
CIX2314	REZ851-01R		PDI-CORE-04A-05-*						1	2021/11/20	2021/12/01 23:00		2021/11/24
CIX2314	REZ852-01R		PDI-CORE-04A-06-*						1	2021/11/20	2021/12/01 23:00		2021/11/24

Remarks:

Samples extracted by:

Truc Vu

Instrumentation performed by:

AGU / RAK

Date:

2021-12-09

Calculations performed by:

RAK

Date:

2021-12-09

Validated by:

MMZ

Date:

21-12-13

Job No.	Rep	Client Name	Contact	Client Tier	National
MC1U8090	CC4	Bureau Veritas Laboratories	Debbie Nordbruket	Tier 4 (Enviro.)	Bureau Veritas 134
	Offsite job C1U8090 was created on Thursday, October 21, 2021 in LimsEasternDb with offsite code ONTV Project #: VANENV job# C178934				
GC1X2301	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1K0374				
GC1X2305	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0786				
GC1X2314	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0851				

Surrogates/Spikes	Method Spike	Spikes	Samples

Sample	Preparation Remarks

Sample	Instrumentation Remarks

WS# : 7716238

Page #: 1/2



Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Wednesday, November 24, 2021

Assigned to : Truc Vu

Test Code : PREP1613-S

Instrument Id:

Test Description : Preparation of soil by 1613

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	MTRX SPK	0	REZ818-01										2021/11/24
	MTRX SPK	1	REZ818-01										2021/11/24
	SPIKE												2021/11/24
	BLANK												2021/11/24
CIU8090	QZV226-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
CIU8090	QZV229-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
CIU8090	QZV230-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
CIU8090	QZV231-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
CIX2301	REZ784-01R		PDI-CORE-29E-02-*						1	2021/12/08	2021/11/23 18:00		2021/11/24
CIX2301	REZ785-01R		PDI-CORE-129E-0*						1	2021/12/08	2021/11/23 18:00		2021/11/24
CIX2305	REZ798-01R		PDI-CORE-01-A-07*						1	2021/11/18	2021/11/25 18:00		2021/11/24
CIX2305	REZ799-01R		PDI-CORE-01-A-08*						1	2021/11/18	2021/11/25 18:00		2021/11/24
CIX2305	REZ800-01R		PDI-CORE-03-B-04*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2305	REZ801-01R		PDI-CORE-03-B-05*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2305	REZ812-01R		PDI-CORE-103-B-0*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2305	REZ817-01R		PDI-CORE-04-B-05*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2305	REZ818-01R		PDI-CORE-04-B-06*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2314	REZ849-01R		PDI-CORE-05B-05-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
CIX2314	REZ850-01R		PDI-CORE-05B-06-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
CIX2314	REZ851-01R		PDI-CORE-04A-05-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
CIX2314	REZ852-01R		PDI-CORE-04A-06-*						1	2021/11/20	2021/11/23 18:00		2021/11/24

Remarks:

Samples extracted by:

Truc Vu

Instrumentation performed by:

Date:

Calculations performed by:

Date:

Validated by:

Date:

Job No.	Rep	Client Name	Contact	Client Tier	National
	Remarks				
MC1U8090	CC4 Bureau Veritas Laboratories		Debbie Nordbruket	Tier 4 (Enviro.)	Bureau Veritas 134
	Offsite job C1U8090 was created on Thursday, October 21, 2021 in LimsEasternDb with offsite code ONTV Project #: VANENV job# C178934				
GC1X2301	LDR Apex Laboratories		Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1K0374				
GC1X2305	LDR Apex Laboratories		Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0786				
GC1X2314	LDR Apex Laboratories		Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0851				

Surrogates/Spikes	Method Spike	Spikes	Samples

Sample	Preparation Remarks

Sample	Instrumentation Remarks

HI-RES /LOW RES SAMPLE TRACKING SHEET

Testcode:

EPA 1613

WS NO. HR 2024124-03

Prep. Method REP1613-5

Extracted By TRV-21/11/24

Extract Started 21/11/24 @ 4:30 pm

Cleaned Up By

Extract Completed 21/11/25 @ 8:35 am

GPC'd By
GPC Date
GPC ID #

For solid samples attach WS with % moisture

on back
Labels checked
88

LAB ID Number	Client Name	Sample Identity	Init. Vol (ml)	Dry Weight (g)	Acid Backwash	Final Vol.	Split	Sep. Fun.	Alin Filter	Flask	Soxhlet	Rotovap ID #
TRV-21/11/24		Method Blank										
Blank Spike		Blank	20.0024							D76	D332	
Blk Dup. Spike		Spike	20.0235							D106	D354	
1		HE (REZ 818-OR)	20.0093							D47	D339	
2		MSD (REZ 818-OR)	20.0067							D24	D260	
3	BU labs	QZV 226-OR	20.0169							D83	D358	
4		QZV 229-OR	20.0325							D113	D343	
5		QZV 230-OR	20.0182							FM107	D347	
6		QZV 231-OR	20.0413							D114	D335	
7	Apex Labs	REZ 734-OR	20.0069							D103	D309	
8		REZ 785-OR	20.0492							FM49	D62	
9	CIX 2305	REZ 798	20.0049							R27	D345	
10		REZ 799	20.0017							D309	D346	
11		REZ 800	20.0476							D82	D337	
12		REZ 801	20.0164							D115	D155	
13		REZ 812	20.0070							D85	D340	
14		REZ 817	20.0064							D108	D337	
15		REZ 818	20.0227							D80	D335	
16	CIX 2314	REZ 843	20.0278							D112	D321	
17		REZ 850-OR	20.0022							D49	D268	
18		REZ 857-OR	20.0263							D40	D274	
19		REZ 852-OR	20.0191							D74	D356	
20												

Bureau Veritas Laboratories

* See reverse side for solvents, clean up materials and spiking standards used

NOTE: all 8000 series methods require MS & MSD

Double spike

HR Soil/Tissue/Food Tracking Sheet

Solvent	Lot No	Date & Time	Extracted by:-	MS#
Mech	214517	2/11/24 (21:30)	Cleaned up by:-	MS# 211124
Hexane	214235	2/11/24 @ 8:35	ID of Balance Used	0034309623
Toluene	214082		Rotovape ID	#P, #9
Iso Octane				
Na ₂ SO ₄	210374			
Acetone				
Silica				
DF				
Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent
44% Acid Silica		4%DCM : Hexane		50% Toluene: Ethyl Acet
33%KOH Silica		Alumina		50%DCM : Hexane
10% AGNOS		50%DCM : Cyclohex		Carbon/Celite
Surrogate/Spike solutions	Syringe ID	Concentration	Prep. Date/Code	Carbon
EPA Mt4 23 Internal Std Soln		100% T4+H7DDIF @ 100 µg/L 13C12-08CDD @ 200 µg/L		MTD SPK
EPA Mt4 23 Matrix Spiking Soln		T4-H7DDIF @ 250 µg/L 08CDDIF @ 500 µg/L		Mix. Spk.
EPA Mt4 1613 Internal Std. Soln	134RMS-22	13C12-T4-H7DDIF @ 100 µg/L 13C12-08CDD @ 200 µg/L		Samples
EPA Mt4 1613 Matrix Spiking Soln	18RMS-14	T4 @ 40 µg/L H7DDIF @ 200 µg/L 08CDDIF @ 400 µg/L		
EPA Mt4 1613 AIC Spike (Clean-up)	2114EM 506	31C14-2378-T4CDD @ 40 µg/L		
EPA Region IV (8290) Internal Std Soln		13C12-T4+P6@100 µg/L H7-H@250 µg/L 13C12-08CDD@500 µg/L		
EPA Region IV (8290) Matrix Spiking Soln		T4-H7DDIF @ 25 µg/L 08CDDIF @ 50 µg/L		
PAHs	Lot#Lab ID			
Solvent/Absorbent				
1% Deat. Alumina				
Surrogate/Spike solutions	Syringe ID	Concentration	Prep. Date/Code	N2-Evap ID
CARB 429 Internal Std Soln (PAH)		5-10 ng/L		MTD SPK
CARB 429 Matrix Spiking Soln		5 ng/L		Mix. Spk.
PCBs				Samples
Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	
44% Acid Silica		3% Deactivated Silica		
Copper		Nonane		
3% Deactivated Florisil				
Surrogate/Spike solutions	Syringe ID	Concentration	Prep. Date/Code	MTD SPK
HR PCB Internal Std Soln		0.4 ng/L		Mix. Spk.
HR PCB Matrix Spiking Soln		0.1 ng/L		Samples
HR PCB Alternate (Clean-up) Spike		0.4 ng/L		
OCS				
Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	
Petroleum Ether		1% Deactivated Florisil		
Ethyl Acetate		20% Ethyl Acet: Petroleum Ether		
Surrogate/Spike solutions	Syringe ID	Concentration	Prep. Date/Code	N2-Evap ID
HR OC Internal Std Soln		4 ng/L		MTD SPK
HR OC Matrix Spiking Soln		5 ng/L		Mix. Spk.
COMMENTS:				Samples

2024 1613/1615 R.S. (4/10/14 - 08/11/24) was added to the wet samples. See file 103

archived(5ml) ← Double spike? → EZ cleanup (5ml)

HRMS Sample Information Transfer

Analyst: Jive Du (Panda)

Date: 2/11/24

WS # 20211124-03 / Prepl613-S

Extraction Status: Burner turned on @ 4:30 pm. TW-2/11/24

Roto-Vap Status: completed for all samples. YLC 2021/11/26

1ml iso-octane was added for all samples. YLC 2021/11/26

Transferred all samples to 40ml vials. PD4 2/11/27

Methods Requiring Clean up Spike

Method 1613 - SW/TI

Method 1668 - S'W/TI

Method 23 - Air

Clean up spike added? Yes; to all samples Initial/Date MSW 2/11/29

2x Split done for the samples and ready for cleanup. MSW 2/11/29

Cleanup Status: Ran all samples on EZ. MSW 2/11/29
EZ 123 Clean up

MSW 2/11/29

Reacti-Vial: was done for all samples. MSW 2/11/29

Completion Date: November 29, 2021

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 2
Worksheet # HR2021/11/24-03 (Prep 1613-S)

SOLVENTS	Lot #
Hexane (Fisher H303-4)	<u>214235</u>
DCM (Fisher D151-4)	<u>214517</u>
Toluene (Fisher T290-4)	<u>212022</u>

FMS COLUMNS	Lot #
Extra Large (ACIDIC XL MIX EZ-P)	<u>N/A</u>
Jumbo Silica (EZHI-ACD-020)	<u>HDP139</u>
Classical Silica (ACID 6g EZ-P)	<u>N/A</u>
Basic Alumina (EZHI-ALU-006)	<u>LLP115</u>
Carbon/Celite (EZHI-CLA 034)	<u>CP118</u>

CELL #	Sample Info
1	BLANK
2	SPIKE
3	Matrix Spike
4	Matrix Spike Dup.
5	QZV226
6	QZV229

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 1
Worksheet #: MR-2021-11-29-03 (Prep 16135)

SOLVENTS Lot #

Hexane (Fisher H303-4) 214235
DCM (Fisher D151-4) 214517
Toluene (Fisher T290-4) 212022

FMS COLUMNS Lot #

Extra Large (ACIDIC XL MIX EZ-P) N/A
Jumbo Silica (EZHI-ACD-020) HDP139
Classical Silica (ACID 6g EZ-P) N/A
Basic Alumina (EZHI-ALU-006) LLP115
Carbon/Celite (EZHI-CLA 034) CP118

CELL #	Sample Info
1	QZV230
2	QZV231
3	REZ784
4	REZ785
5	REZ798
6	REZ799

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 3
Worksheet #: HR-2021-11-24-03 / Prep 1613.5

<u>SOLVENTS</u>	<u>Lot #</u>
Hexane (Fisher H303-4)	<u>214235</u>
~~CAUTION~~ DCM (Fisher D151-4)	<u>106435</u>
~~MSW~~ Toluene (Fisher T290-4)	<u>212022</u>

<u>FMS COLUMNS</u>	<u>Lot #</u>
Extra Large (ACIDIC XL MIX EZ-P)	<u>N/A</u>
Jumbo Silica (EZHI-ACD-020)	<u>MDP139</u>
Classical Silica (ACID 6g EZ-P)	<u>N/A</u>
Basic Alumina (EZHI-ALU-006)	<u>LLP115</u>
Carbon/Celite (EZHI-CLA 034)	<u>CP113</u>

CELL #	Sample Info
1	REZ 800
2	REZ 801
3	REZ 812
4	REZ 817
5	REZ 818
6	REZ 849

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 1
Worksheet # HR-2021-11-24-03 / Prep 16135

<u>SOLVENTS</u>	<u>Lot #</u>
Hexane (Fisher H303-4)	<u>214235</u>
DCM (Fisher D151-4) CALBDAW MSW	<u>106435</u>
Toluene (Fisher T290-4)	<u>212022</u>

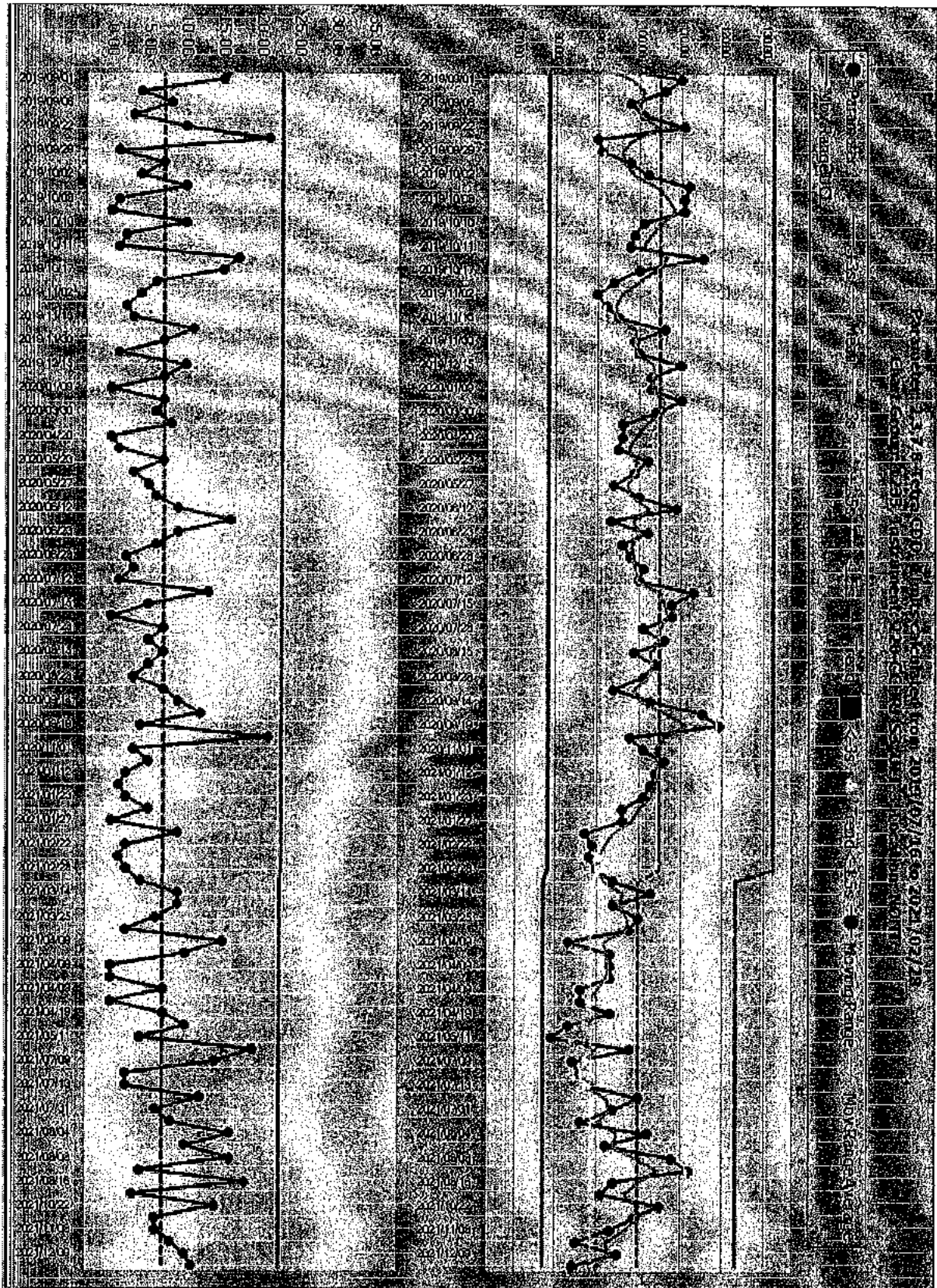
<u>FMS COLUMNS</u>	<u>Lot #</u>
Extra Large (ACIDIC XL MIX EZ-P)	<u>N/A</u>
Jumbo Silica (EZHI-ACD-020)	<u>MDP139</u>
Classical Silica (ACID 6g EZ-P)	<u>N/A</u>
Basic Alumina (EZHI-ALU-006)	<u>LLP115</u>
Carbon/Celite (EZHI-CLA 034)	<u>CP118</u>

CELL #	Sample Info
1	RE2850
2	RE2851
3	RE2852
4	N/A
5	N/A
6	N/A

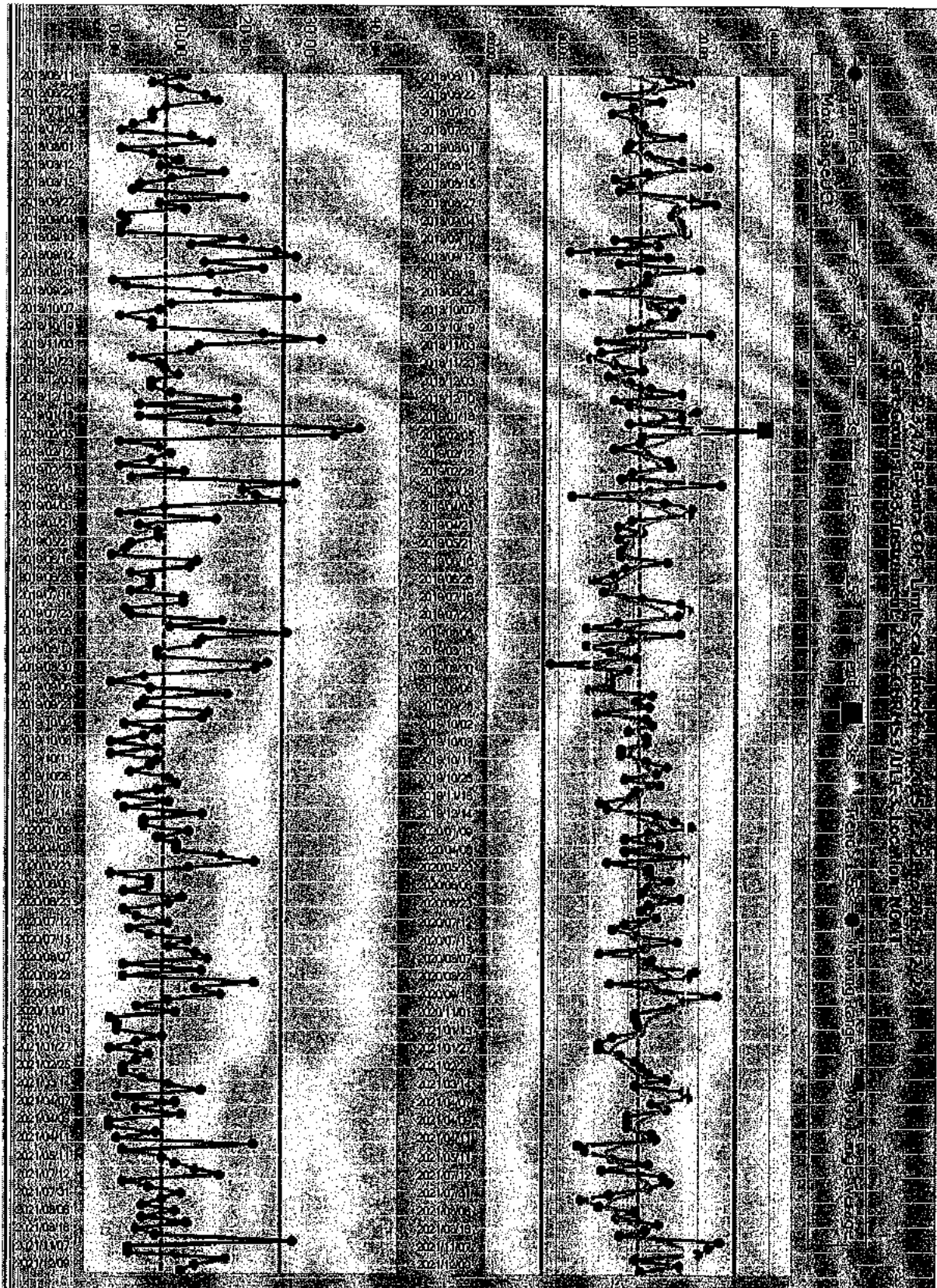
Comments:

Ultra Trace - Worksheet Validation Checklist			
Prep Worksheet # <u>1820211124-03</u>		Instrument Worksheet # <u>7716247</u>	
Testcode: <u>1613-S</u>		Testcode: <u>DF1613-S</u>	
Sample Preparation		yes	no : n/a
1	Samples extracted within hold time	✓	
2	Client sample ID verified against Lab ID		✓
3	Job Remarks reviewed on 2nd page of worksheet & testcodes reviewed for spiking		✓
4	Method required QC processed with samples	✓	
5	Sample, duplicate, matrix spike appear similar, Initial sample as well as final extract	✓	
6	Sample weight or Initial volume and extract final volume, aliquot factor clearly recorded.	✓	
7	If performed any additional dilution clearly recorded		✓
8	Spiking solutions valid (haven't expired), ID and volume used clearly identified on worksheet	✓	
9	Spiking process witnessed and signed off	✓	
10	Sample prep deviations documented on Bench Level Deviation Form (CAM FCD-00328)	✓	✓
11	Tracking sheets completed	✓	
Prepared by: <u>TRV - 21/11/24</u> Date: <u>21/11/24</u>		Reviewed by: <u>TRV</u> <u>21/11/24</u>	
Comments:			
Primary review by the analyst - 100 % analysis review		yes	no : n/a
1	System performance check acceptable (if applicable)	✓	
2	Analysis set-up meets method criteria	✓	
3	Tuning and correct calibration used - criteria meets method criteria	✓	
4	SQC/Control Charts updated, analysis in statistical/method control	✓	
5	Internal area counts checked (if applicable)		✓
6	LCS, SRM are within acceptance criteria	✓	
7	Surrogate Recovery(s) is within acceptance criteria	✓	
8	Method Blank meets acceptance criteria	✓	
9	Matrix Spike recovery(s) meets acceptance criteria		✓
10	Duplicate precision meets acceptance criteria	✓	
11	QC is documented on the run logs	✓	
12	Runs checked for carryover	✓	
13	Prep log / worksheet(s) are present, signed / dated by a prep / instrument analysts	✓	
14	Initial weights, splits, Impinger volumes (where applicable) are documented	✓	
15	Samples above calibration range diluted and reanalyzed		✓
16	Dilution factors (where justified) have been checked for correctness and entered		✓
17	Analytical observations/anomalies documented in LIMS	✓	
18	If corrective actions were applied they are documented, Initialed & dated	✓	
19	Transferred data is approved in LIMS for correctness	✓	
20	Sample Prep section (above) reviewed and verified.	✓	
21	Data package assembled (where required)		✓
Data Approved by: <u>RAK</u> Date: <u>2021-12-13</u>			
Comments: <u>1, 2, 3, 4, 6, 7, 8 HPCDF outside criteria. Refer to LIMS for comments in detail.</u>			
Secondary Supervisor/Qualified Data Review Staff		yes	no : n/a
1	Repeats documented and referenced		✓
2	Method and sample deviations noted, anomalies described (if applicable)		✓
3	Data and QC validated in LIMS	✓	
4	Manual integration - before & after data with a reason included, Initialed & dated		✓
5	Random calculation checked	✓	
6	Worksheet(s) and sample prep sheets (FCDs) signed and dated	✓	
7	Data Package (if required) checked for completeness	✓	1
Validated & Status Checked by: <u>MB</u> Date: <u>21/12/23</u>			
Comments:			

Note: Primary and Secondary Internal Data Review Check must be performed by a different person



PAT 2001-12-13



PAT 2011-12-13

File: M3211209A02

Sample

Acqu 12/09/2021 8:33

Sampl SPIKE

Conc SPIKE

Sampl 20.0235

Run

File: 1127A_1613_5.pl

11/20/21 11:24, 1613-S

Inj Fac 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	Code	TEF		LOD(pg)	S/N	Mod.User	RRF Mean	%Rec
1	2,3,7,8-TCDF	304	24.58	137835	0.78	315454	21.63178	Rec = 108	2.163	1.08	-0.167654	330		0.97161	
		306	24.57	177620	yes							323			
2	1,2,3,7,8-PeCDF	340	31.91	778999	1.55	1283025	111.6849	Rec = 112	5.584	5.584244	-0.169363	1440		0.979466	
		342	31.93	502026	yes							1422			
3	2,3,4,7,8-PeCDF	340	33.59	1013560	1.59	1653167	115.2012	Rec = 115	57.601	5.760062	-0.152222	2223		1.089756	
		342	33.58	639607	yes							2192			
4	1,2,3,4,7,8-HxCDF	374	38.09	834527	1.25	1501127	114.0971	Rec = 114	11.410	5.704667	-0.100861	2548		1.159483	
		376	38.11	666600	yes							2528			
5	1,2,3,6,7,8-HxCDF	374	38.21	855835	1.22	1556429	111.9404	Rec = 112	11.194	5.567019	-0.106835	2524		1.034648	
		376	38.25	700594	yes							2521			
6	2,3,4,6,7,8-HxCDF	374	38.88	980529	1.24	1770744	95.19834	Rec = 96	9.520	4.789917	-0.099395	3124		1.176583	
		376	38.89	790215	yes							3139			
7	1,2,3,7,8,9-HxCDF	374	39.72	758596	1.34	1324777	115.3024	Rec = 116	11.530	5.765121	-0.106575	2208		1.097314	
		376	39.70	566181	yes							2125			
8	1,2,3,4,6,7,8-HpCDF	408	41.44	668120	1.05	1302821	114.5004	Rec = 116	1.146	5.730022	-0.099135	3165		1.208367	
		410	41.43	634702	yes							3136			
9	1,2,3,4,7,8,9-HpCDF	408	42.73	497972	1.06	967570	100.8707	Rec = 101	1.009	5.043534	-0.101775	2309		1.177018	
		410	42.71	469598	yes							2277			
10	OCDF	442	45.42	603554	0.9	1277061	230.5259	Rec = 118	0.231	11.5263	-0.122372	4708		1.239902	
		444	45.41	673507	yes							4668			
11	2,3,7,8-TCDD	320	25.65	86526	0.77	198143	19.03254	Rec = 95	19.033	0.951627	-0.154143	317		1.240957	
		322	25.73	111618	yes							312			
12	1,2,3,7,8-PeCDD	356	34.31	547504	1.64	880870	107.7527	Rec = 108	53.876	5.387635	-0.126418	2093		1.116262	
		358	34.31	333365	yes							2011			
13	1,2,3,4,7,8-HxCDD	390	39.07	539757	1.28	960724	110.112	Rec = 110	11.011	5.605601	-0.115531	2453		1.111453	
		392	39.05	420963	yes							2387			
14	1,2,3,6,7,8-HxCDD	390	39.17	614430	1.25	1107625	112.5096	Rec = 113	11.251	5.62549	-0.114686	2457		1.119648	
		392	39.17	493196	yes							2406			
15	1,2,3,7,8,9-HxCDD	390	39.51	564153	1.29	1002156	107.6713	Rec = 108	10.767	5.383566	-0.114919	2303		1.117372	
		392	39.50	438002	yes							2235			
16	1,2,3,4,6,7,8-HpCDD	424	42.38	375369	0.99	752891	104.5014	Rec = 105	1.045	5.225071	-0.120677	2271		1.084762	
		426	42.36	377523	yes							2220			
17	OCDD	458	45.32	516923	0.92	1080765	219.3899	Rec = 116	0.229	11.46949	-0.12652	4432		1.054514	
		460	45.29	563842	yes							4327			
18	13C-2,3,7,8-TCDF	316	24.56	1337308	0.81	2998283	1548.8				0.991	5010		2.144584	77
		318	24.57	1660974	yes							4812			
19	13C-1,2,3,7,8-PeCDF	352	31.88	1453064	1.64	2339841	1642.951				1.593	2361		1.577374	82
		354	31.89	886277	yes							2182			
20	13C-2,3,4,7,8-PeCDF	352	33.56	1613217	1.59	2630571	1899.295				1.637	3271		1.534347	95
		354	33.57	1017354	yes							2857			
21	13C-1,2,3,4,7,8-HxCDF	384	38.07	786467	0.53	2266722	1619.356				3.318	766		1.332773	81
		386	38.09	1480255	yes							2979			
22	13C-1,2,3,6,7,8-HxCDF	384	38.20	884725	0.54	2537395	1683.483				3.082	791		1.435092	84
		386	38.20	1652671	yes							3077			
23	13C-2,3,4,6,7,8-HxCDF	384	38.87	1089110	0.53	3158085	2246.686				3.304	1139		1.338387	112
		386	38.87	2068975	yes							4547			
24	13C-1,2,3,7,8,9-HxCDF	384	39.70	735796	0.54	2091670	1591.933				3.535	708		1.251033	80
		386	39.69	1355874	yes							2763			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.43	610724	0.48	1879403	1413.069				1.769	2175		1.266359	71
		420	41.41	1268679	yes							3094			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.72	485032	0.42	1628000	1457.851				2.106	1696		1.063266	73
		420	42.71	1142968	yes							2441			
27	13C-2,3,7,8-TCDD	332	25.63	748923	0.81	1675892	1601.818				1.597	3785		1.159041	80
		334	25.70	926968	yes							2485			
28	13C-1,2,3,7,8-PeCDD	368	34.29	911981	1.65	1462978	1972.76				1.986	3038		0.821541	99
		370	34.29	550997	yes							2886			
29	13C-1,2,3,4,7,8-HxCDD	402	39.06	890933	1.32	1568169	1639.28				2.567	2596		0.910836	82
		404	39.06	677236	yes							1736			
30	13C-1,2,3,6,7,8-HxCDD	402	39.16	983180	1.27	1756472	1757.186				2.456	2567		0.951752	88
		404	39.15	773291	yes							1746			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.37	685415	1.07	1326771	1341.707				2.302	2005		0.941539	67
		438	42.36	641356	yes							1617			
32	13C-OCDD	470	45.31	822383	0.85	1785067	2252.409				1.33	4328		0.754584	56
		472	45.29	962684	yes							4639			
33	13C-1,2,3,4-TCDD	332	25.34	815731	0.82	1805361	38.949				0.036	4284		46352.42	2
		334	25.34	989630	yes							2755			
34	13C-1,2,3,7,8,9-HxCDD	402	39.50	1141279	1.19	2100534	39.514				0.046	2972		53159.29	2
		404	39.49	959255	yes							2061			
35	CB7-2,3,7,8-TCDD	328	25.65	220349	1	440698	193.895				0.154	3664		2.517916	97
		328	25.62	220349	yes							3664			
36	Totals Tetra-Furans	304	-	0	-	0	21.63178		1		-0.167654	-		0.97161	-
		306	25.00	0	-							-			
37	Totals Tetra-Dioxins	320	-	0	-	0	19.03254		1		-0.154143	-		1.240957	-
		322	26.00	0	-							-			
38	Totals Penta-Furans	340	-	0	-	0	226.8861		2		-0.160336	-		1.034611	-

		342	34.00	0	-								
39	Totals Penta-Dioxins	356	-	0	-	0	107.7527	1	-0.128418	-	1.116262	-	
		358	34.00	0	-								
40	Totals Hexa-Furans	374	-	0	-	0	486.5383	4	-0.103309	-	1.132007	-	
		376	39.50	0	-								
41	Totals Hexa-Dioxins	390	-	0	-	0	330.2931	3	-0.115871	-	1.108192	-	
		392	39.50	0	-								
42	Totals Hepta-Furans	408	-	0	-	0	215.4711	2	-0.100438	-	1.192692	-	
		410	42.50	0	-								
43	Totals Hepta-Dioxins	424	-	0	-	0	104.5014	1	-0.120677	-	1.084762	-	
		426	42.50	0	-								

Totals Compound 36: Totals Tetra-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
36	Totals Tetra-Furans	304	23.62	1304	0.76	3021	0.207157	4		0.97161	-	
		306	26.00	1717	no			3				
36	Totals Tetra-Furans	304	24.01	1197	0.92	2499	0.171299	3		0.97161	-	
		306	26.00	1302	no			2				
1	2,3,7,8-TCDF	304	24.58	137835	0.78	315454	21.63178	330		0.97161	108	
		306	24.57	177620	yes			323				
36	Totals Tetra-Furans	304	27.19	374	1.23	679	0.046545	1		0.97161	-	
		306	26.00	305	no			1				

Totals Compound 37: Totals Tetra-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
37	Totals Tetra-Dioxins	320	25.48	1701	0.67	4256	0.40882	7		1.240957	-	
		322	26.00	2555	no			8				
11	2,3,7,8-TCDD	320	25.65	86526	0.77	198143	19.03254	317		1.240957	95	
		322	25.73	111613	yes			312				

Totals Compound 38: Totals Penta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
38	Totals Penta-Furans	340	27.72	725	1.03	1398	0.108703	3		1.034611	-	
		342	34.00	673	no			3				
38	Totals Penta-Furans	340	29.97	4231	1.8	6578	0.511479	8		1.034611	-	
		342	34.00	2347	no			7				
2	1,2,3,7,8-PeCDF	340	31.91	778999	1.55	1281025	111.6849	1440		0.979466	112	
		342	31.93	502026	yes			1422				
38	Totals Penta-Furans	340	32.29	554	1.22	1007	0.0783	3		1.034611	-	
		342	34.00	453	no			4				
38	Totals Penta-Furans	340	32.33	363	1.03	716	0.055674	3		1.034611	-	
		342	34.00	352	no			3				
38	Totals Penta-Furans	340	32.63	16958	1.58	27707	2.154388	34		1.034611	-	
		342	34.00	10749	no			36				
3	2,3,4,7,8-PeCDF	340	33.59	1013560	1.59	1653167	115.2012	2223		1.089756	115	
		342	33.58	639607	yes			2192				
38	Totals Penta-Furans	340	33.84	308	0.99	620	0.048208	0		1.034611	-	
		342	34.00	312	no			3				
38	Totals Penta-Furans	340	35.26	8984	1.53	14859	1.155377	25		1.034611	-	
		342	34.00	5875	no			28				

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
39	Totals Penta-Dioxins	356	30.31	1406	4.52	1717	0.210053	4		1.116262	-	
		358	34.00	311	no			3				
12	1,2,3,7,8-PeCDD	356	34.31	547504	1.64	880870	107.7527	2093		1.116262	108	
		358	34.31	333366	yes			2011				
39	Totals Penta-Dioxins	356	34.55	3502	1.96	5292	0.647339	13		1.116262	-	
		358	34.00	1790	no			14				
39	Totals Penta-Dioxins	356	34.71	1026	3.02	1366	0.167004	5		1.116262	-	
		358	34.00	339	no			5				
39	Totals Penta-Dioxins	356	35.12	2117	2.04	3155	0.385947	8		1.116262	-	
		358	34.00	1039	no			7				

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
40	Totals Hexa-Furans	374	36.73	2427	1.34	4233	0.29717	6		1.132007	-	
		376	39.50	1806	no			6				
40	Totals Hexa-Furans	374	36.94	1424	1.09	2727	0.191444	4		1.132007	-	
		376	39.50	1303	no			5				
4	1,2,3,4,7,8-HxCDF	374	38.09	834527	1.25	1501127	114.0971	2548		1.159483	114	
		376	38.11	666600	yes			2528				
5	1,2,3,6,7,8-HxCDF	374	38.21	855835	1.22	1556429	111.9404	2524		1.094648	112	
		376	38.25	700594	yes			2521				
6	2,3,4,6,7,8-HxCDF	374	38.38	980529	1.24	1770744	95.19834	3124		1.176583	95	
		376	38.39	790215	yes			3139				
40	Totals Hexa-Furans	374	39.41	447	1.05	874	0.061358	2		1.132007	-	
		376	39.50	426	no			2				
7	1,2,3,7,8,9-HxCDF	374	39.72	758596	1.34	1324777	115.3024	2208		1.097314	115	

		376	39.70	566181	yes			2125		
40	Totals Hexa-Furans	374	40.01	14843	13.05	15980	1.121845	22	1.132007	-
		376	39.50	1137	no			6		
40	Totals Hexa-Furans	374	40.36	516	1.65	827	0.058058	2	1.132007	-
		376	39.50	312	no			1		

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.49	1509	1.51	2510	0.271908	5		1.108192	-
		392	39.50	1001	no			5			
13	1,2,3,4,7,8-HxCDD	390	39.07	539757	1.28	960724	110.112	2453		1.111453	110
		392	39.05	420968	yes			2387			
14	1,2,3,6,7,8-HxCDD	390	39.17	614430	1.25	1107625	112.5098	2457		1.119648	113
		392	39.17	493196	yes			2406			
15	1,2,3,7,8,9-HxCDD	390	39.51	564153	1.29	1002156	107.6713	2303		1.093474	104
		392	39.50	438002	yes			2235			
41	Totals Hexa-Dioxins	390	40.02	1864	1.53	3082	0.333872	6		1.108192	-
		392	39.50	1218	no			9			

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
8	1,2,3,4,6,7,8-HpCDF	408	41.44	668120	1.05	1302821	114.6004	3165		1.208367	115
		410	41.43	634702	yes			3136			
42	Totals Hepta-Furans	408	41.80	4288	0.86	9264	0.881968	15		1.192692	-
		410	42.50	4976	no			16			
9	1,2,3,4,7,8,9-HpCDF	408	42.73	497572	1.06	967570	100.8707	2309		1.177018	101
		410	42.71	469598	yes			2277			

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
43	Totals Hepta-Dioxins	424	41.74	4131	1.05	8062	1.120431	27		1.084762	-
		426	42.50	3931	no			26			
16	1,2,3,4,6,7,8-HpCDD	424	42.38	375369	0.99	752891	104.5014	2271		1.084762	105
		426	42.36	377528	yes			2220			
43	Totals Hepta-Dioxins	424	42.73	924	0.25	4610	0.640683	8		1.084762	-
		426	42.50	3686	no			15			

Method 1613 OPR
 Extracted 2021/11/24 04:30 PM
 FILE: M3211209A02
 DF1613-S

	Conc (ng/mL)	Test	OPR Lo	OPR Hi
2,3,7,8-Cl4-Dibenzofuran	11	OK	7.5	15.8
1,2,3,7,8-Cl5-Dibenzofuran	56	OK	40	67
2,3,4,7,8-Cl5-Dibenzofuran	58	OK	34	80
1,2,3,4,7,8-Cl6-Dibenzofuran	57	OK	36	67
1,2,3,6,7,8-Cl6-Dibenzofuran	56	OK	42	65
2,3,4,6,7,8-Cl6-Dibenzofuran	48	OK	35	78
1,2,3,7,8,9-Cl6-Dibenzofuran	58	OK	39	65
1,2,3,4,6,7,8-Cl7-Dibenzofuran	57	OK	41	61
1,2,3,4,7,8,9-Cl7-Dibenzofuran	50	OK	39	69
1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	115	OK	63	170
2,3,7,8-Cl4-Dibenzo-p-dioxin	10	OK	6.7	15.8
1,2,3,7,8-Cl5-Dibenzo-p-dioxin	54	OK	35	71
1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	55	OK	35	82
1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	56	OK	38	67
1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	54	OK	32	81
1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	52	OK	35	70
1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	115	OK	78	144

SURROGATE RECOVERY

2,3,7,8-T4CDF-13C12	77	OK	22	152
1,2,3,7,8-P5CDF-13C12	82	OK	21	192
2,3,4,7,8-P5CDF-13C12	95	OK	13	328
1,2,3,4,7,8-H6CDF-13C12	81	OK	19	202
1,2,3,6,7,8-H6CDF-13C12	84	OK	21	159
2,3,4,6,7,8-H6CDF-13C12	112	OK	22	176
1,2,3,7,8,9-H6CDF-13C12	80	OK	17	205
1,2,3,4,6,7,8-H7CDF-13C12	71	OK	21	158
1,2,3,4,7,8,9-H7CDF-13C12	73	OK	20	188
2,3,7,8-T4CDD-13C12	80	OK	20	175
1,2,3,7,8-P5CDD-13C12	99	OK	21	227
1,2,3,4,7,8-H6CDD-13C12	82	OK	21	193
1,2,3,6,7,8-H6CDD-13C12	88	OK	25	163
1,2,3,4,6,7,8-H7CDD-13C12	67	OK	26	166
OCDD-13C12	112	OK	26	397
2,3,7,8-T4CDD-37Cl4	9.7	OK	3.1	19.1

Quantify Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

36: Totals Tetra-Furans

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

Autospec Ultima - M536

09-Dec-2021

08:33:50

1: Voltage SIR 11 Channels EI+

303.9016
 1.70e6
 Area

23.62 24.01
 1304 1197

27.19 1.06e8
 374

M3211209A02 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

305.8987
 2.17e6
 Area

23.64 24.03
 1717 1302

27.17 1.37e8
 305

M3211209A02 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

315.9419
 1.63e7

M3211209A02 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

317.9389
 2.01e7

Time

Quantify Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209A_1613
 Test modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Test modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

37: Totals Tetra-Dioxins

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

AutoSpec Ultima - M536

3.11e3

①

09-Dec-2021 08:33:50

1: Voltage SIR 11 Channels EI+

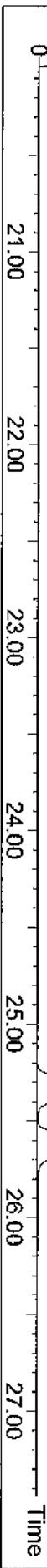


M3211209A02 Sm (SG, 2x2)

M3211209A02 Sm (SG, 2x2)

M3211209A02 Sm (SG, 2x2)

M3211209A02 Sm (SG, 2x2)



Quantity Sample Report

Sample Name: C:\MASSIVE\default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSIVE\default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

35: C137-2,3,7,8-TCDD

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

08:33:50

1: Voltage SIR 11 Channels EI+

25.65

220349

327.8850

2.49e6

Area

%

M3211209A02 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

25.65

220349

327.8850

2.49e6

Area

%

M3211209A02 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

25.34

815731

331.9368

9.49e6

Area

%

M3211209A02 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

25.33

989630

333.9339

1.17e7

Area

%

Time

Quantify Sample Report

Sample List: C:\MASSLVMX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLVMX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

38: Hexa DPE

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

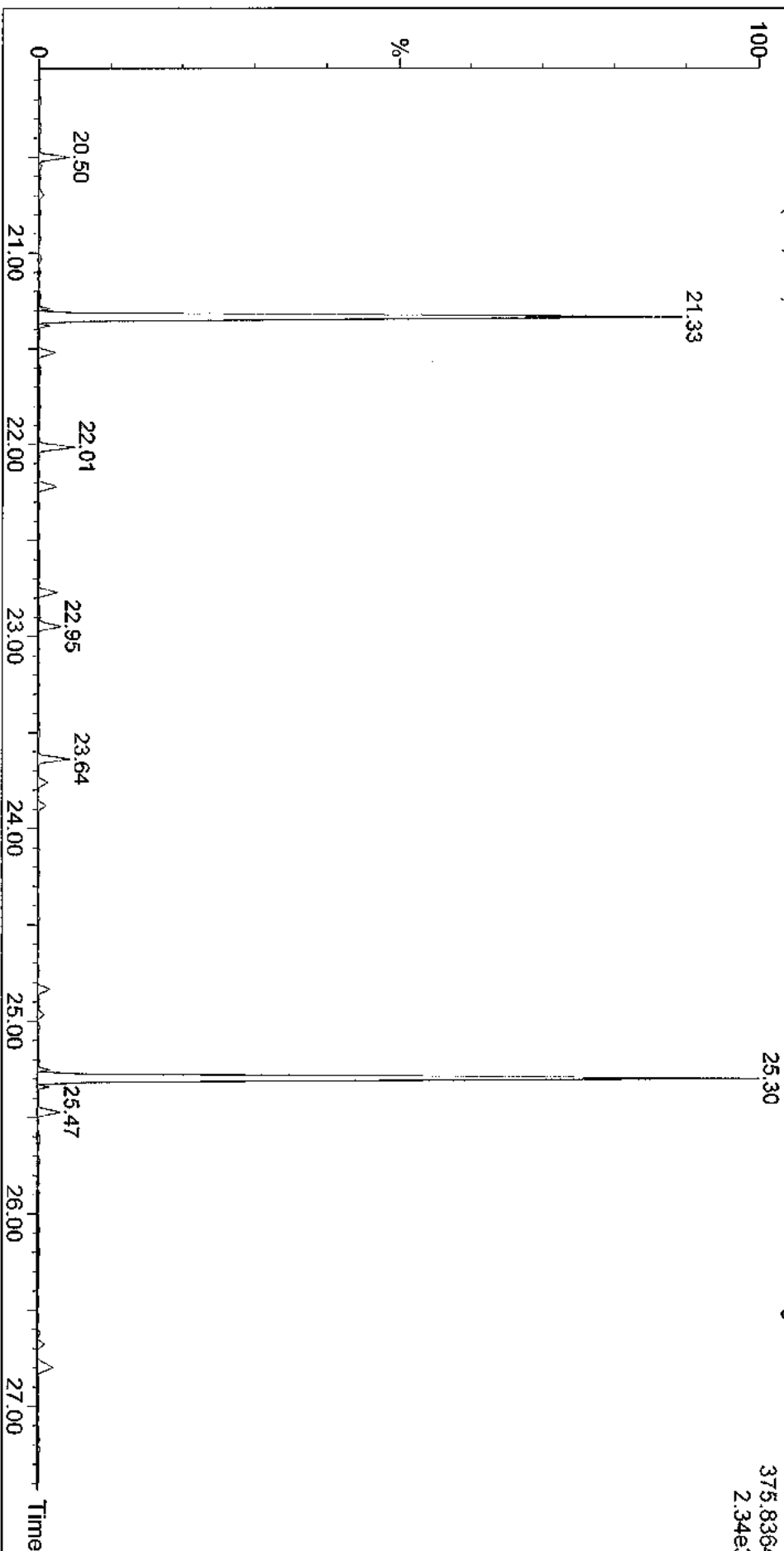
AutoSpec Ultima - M536

09-Dec-2021

08:33:50

1: Voltage SIR 11 Channels EI+

375.8364
 2.34e3



Quantity Sample Report

Sample Id: C:\MSSTW\Default-pro\SMPLD\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTW\Default-pro\METHOD\M321127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

39: Function 1 Lockmass

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

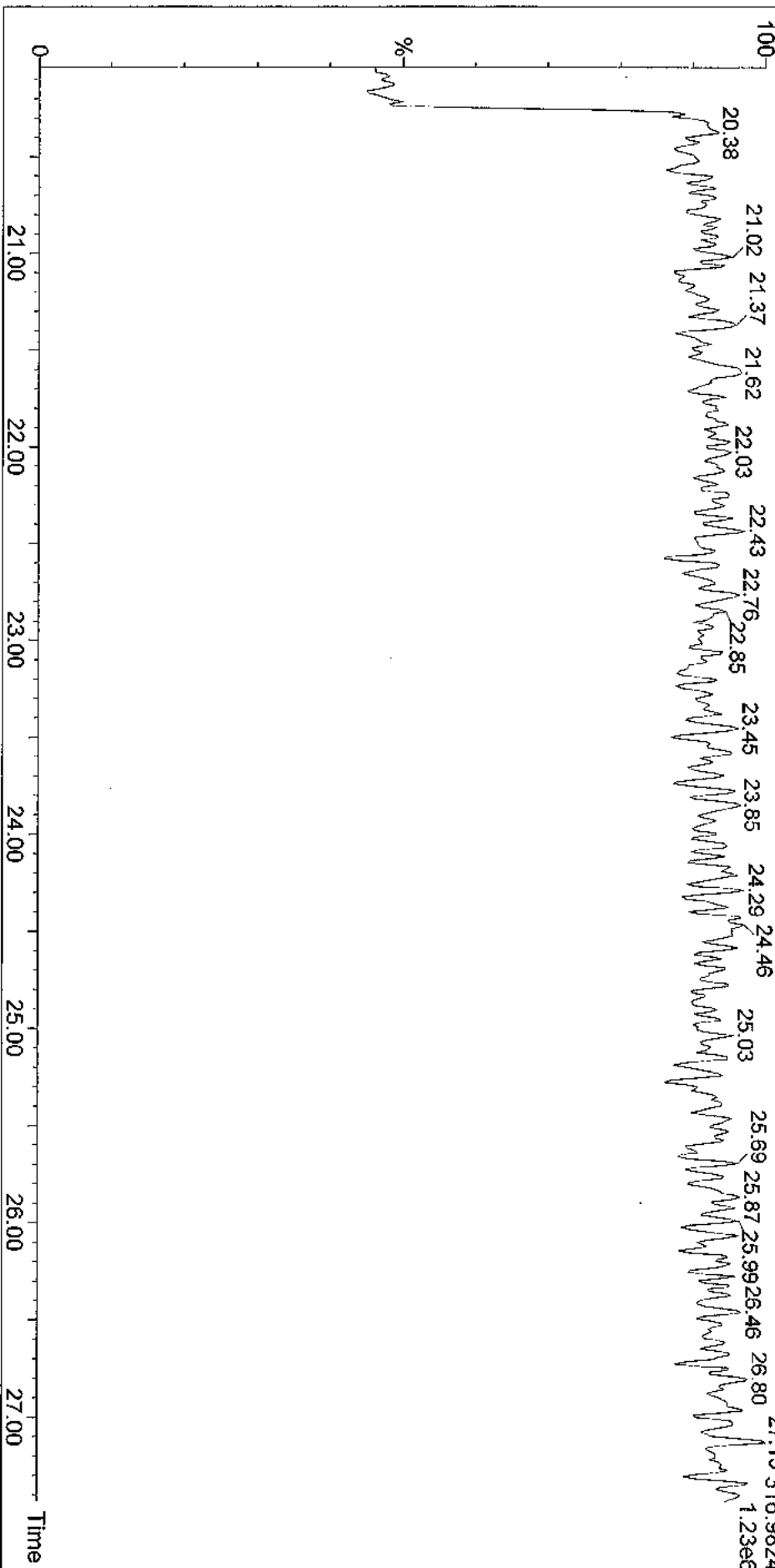
AutoSpec Ultima - M536

09-Dec-2021

08:33:50

1: Voltage SIR 11 Channels EI+

1.23e6



Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

40: Totals Penta-Purans

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

Autospec Ultima - M536

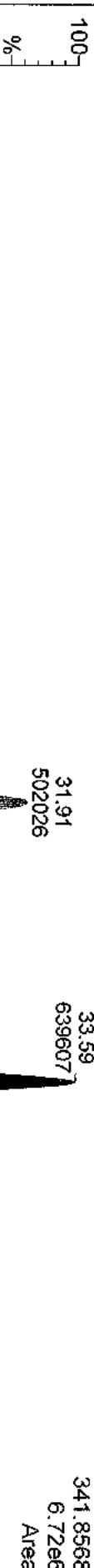
4.72e3

09-Dec-2021 08:33:50

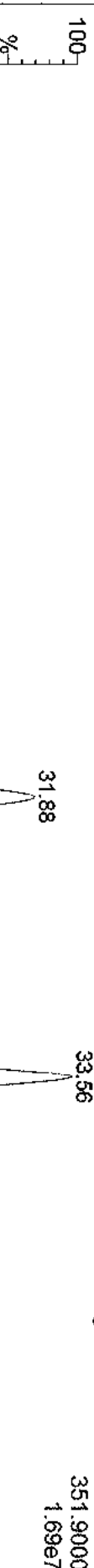
2: Voltage SIR 10 Channels EI+



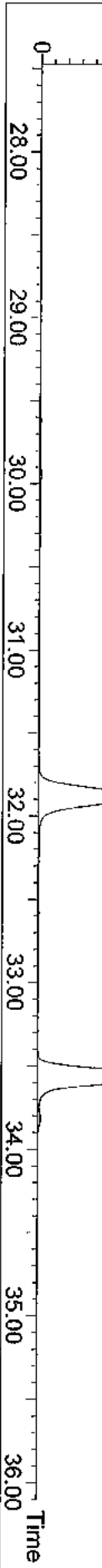
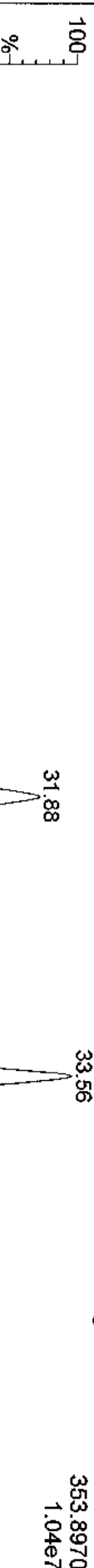
M3211209A02 Sm (SG, 2x2)



M3211209A02 Sm (SG, 2x2)



M3211209A02 Sm (SG, 2x2)



Quantify Sample Report

Sample list: C:\MSSTYXK\Default.pro\SAFILEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYXK\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

41: Totals Penta-Dioxins

SPIKE

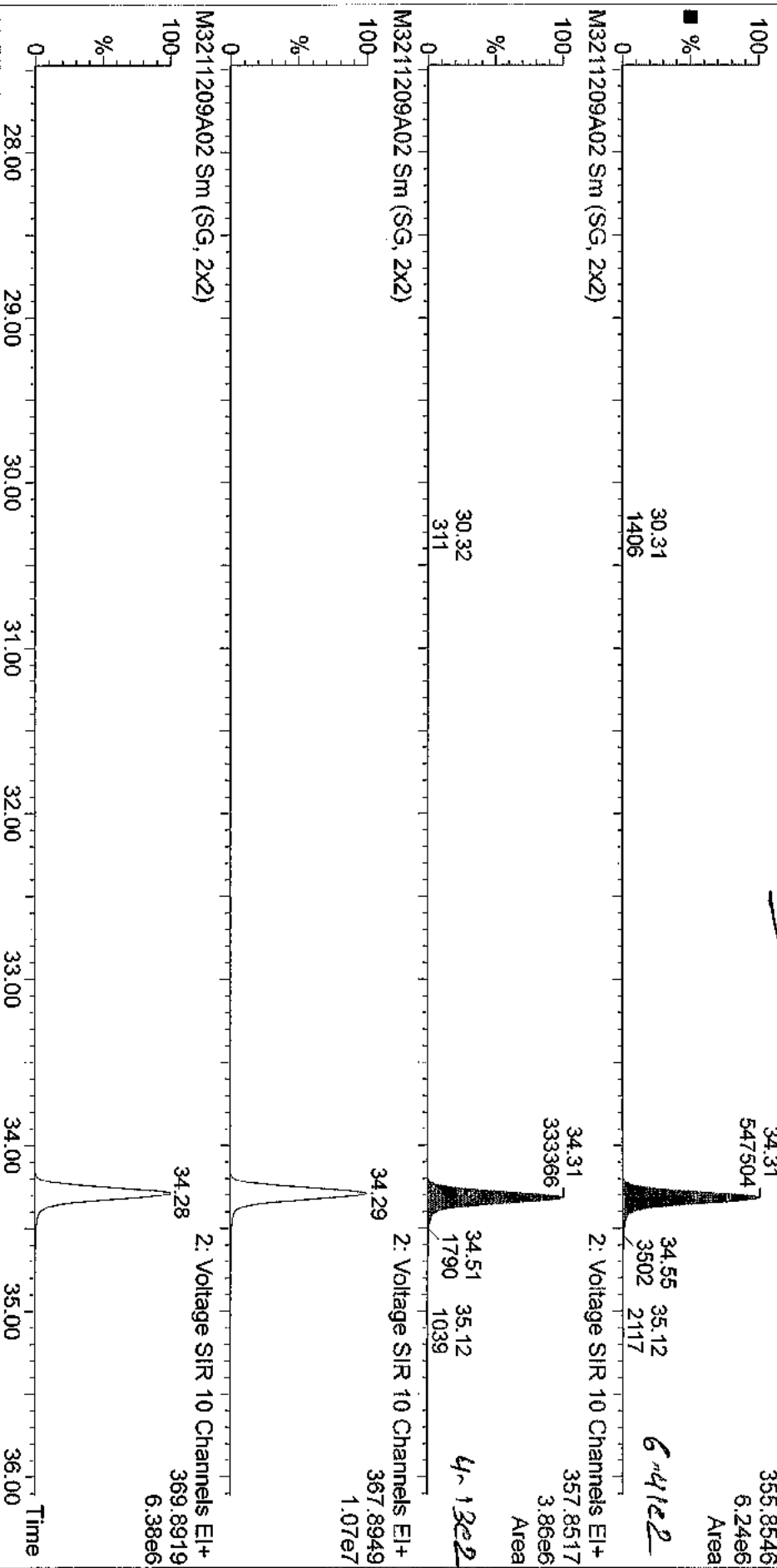
HR20211124,1613-S

M3211209A02 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021

08:33:50



Quantity Sample Report

Sample List: C:\MASSLIX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLIX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02

Text: SPIKE

12: Hepta DPE

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

AutoSpec Ultima - M536

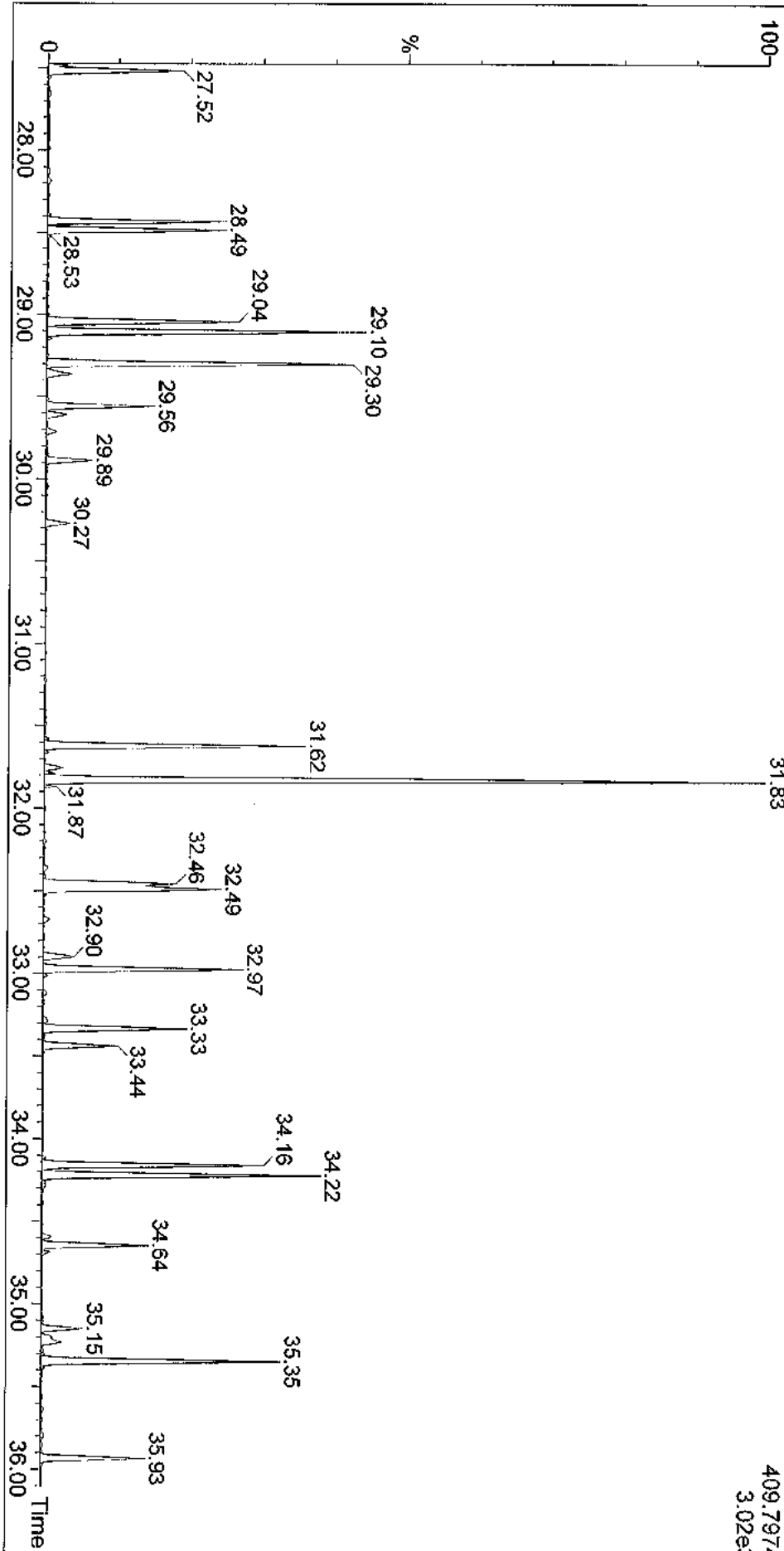
09-Dec-2021

08:33:50

2: Voltage SIR 10 Channels EI+

409.7974

3.02e3



Quantity Sample Report

Sample List: C:\MASSLYNX\Default-pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default-pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

43: Function 2 Lockmass

SPIKE

HR20211124,1613-S

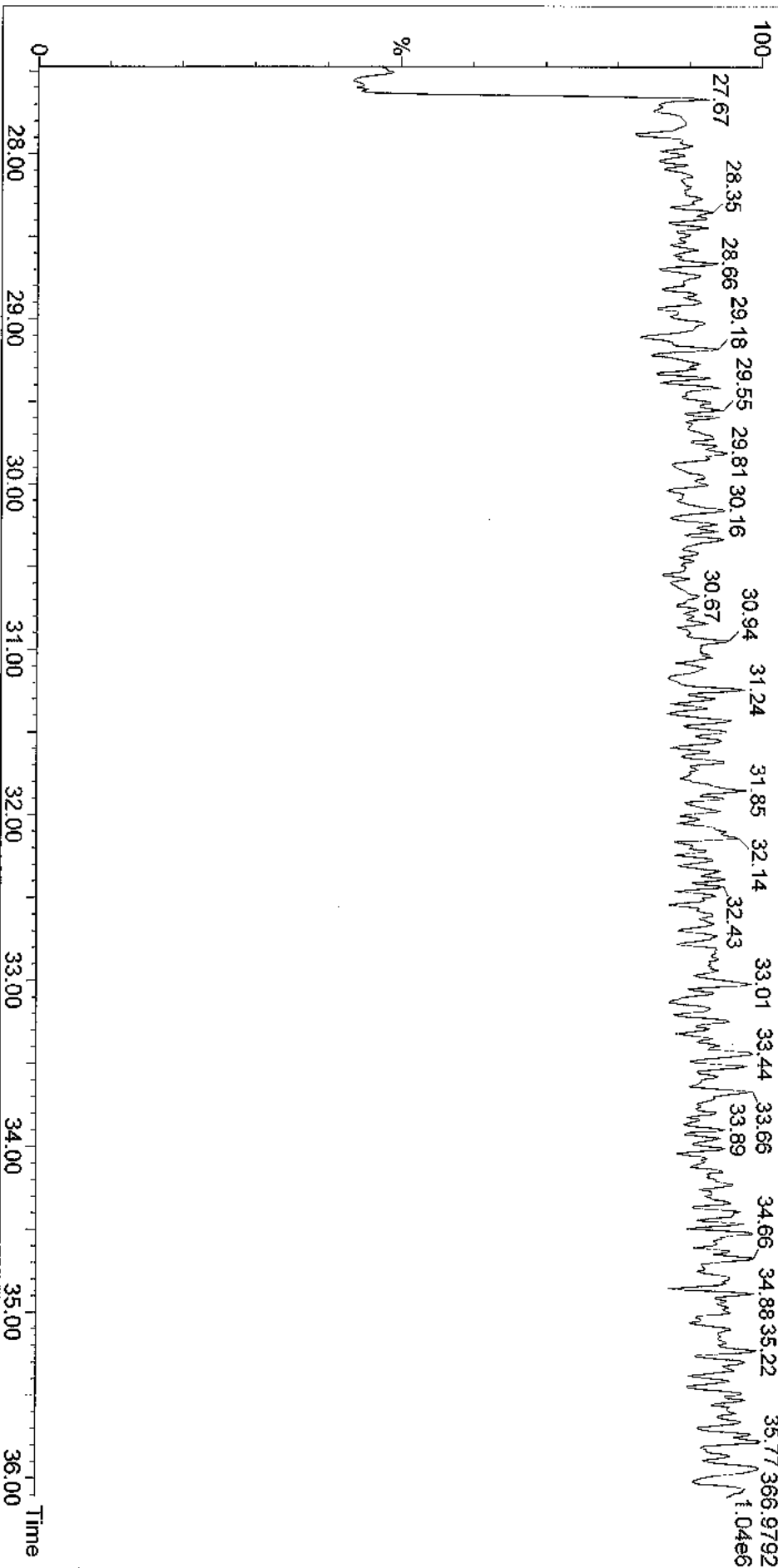
M3211209A02 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

08:33:50

2: Voltage SIR 10 Channels EI+



```
Sample List: C:\MSSTVX\Default.pro\SAMTLE03\M3211209A_1613
Last modified: Fri Dec 10 07:11:23 2021
Method: C:\MSSTVX\Default.pro\METHOD\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:
```

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
Text: SPIKE

44: Totals Hexa-Furans

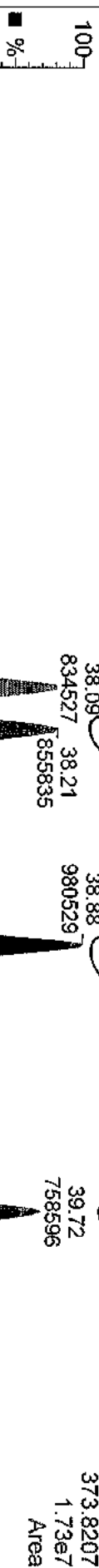
HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

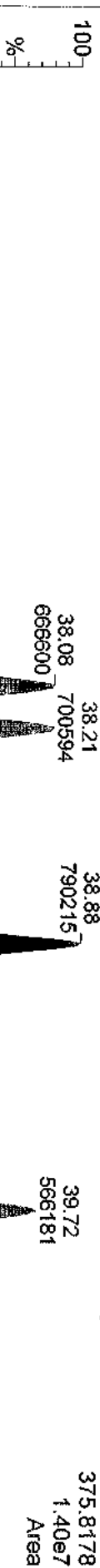
AutoSpec Última - M536

09-Dec-2021

08:33:50



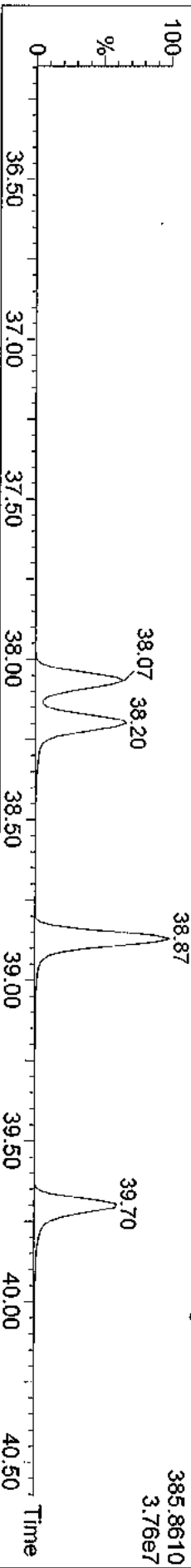
M3211209A02 Sm (SG, 2x2)



M3211209A02.5m (SG, 2x2)



M3211209A02 Sm (SG, 2x2)



Quantity Sample Report

Sample list: C:\MSDCVX\Default.pro\SAFLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCVX\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

45: Totals Hexa-Dioxins

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

08:33:50



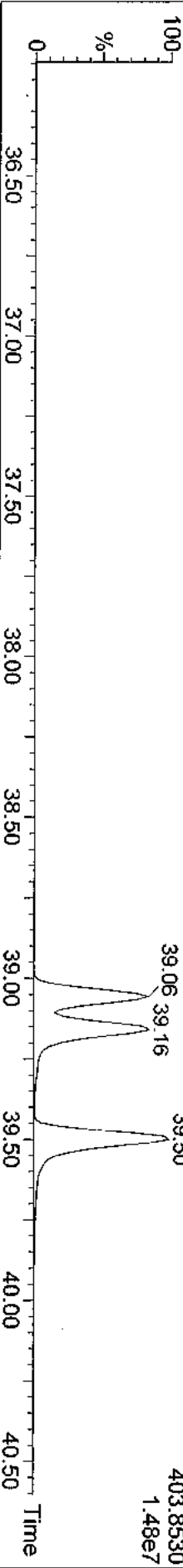
M3211209A02 Sm (SG, 2x2)



M3211209A02 Sm (SG, 2x2)



M3211209A02 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M321127A_HQ_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

46: Octa DBS

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

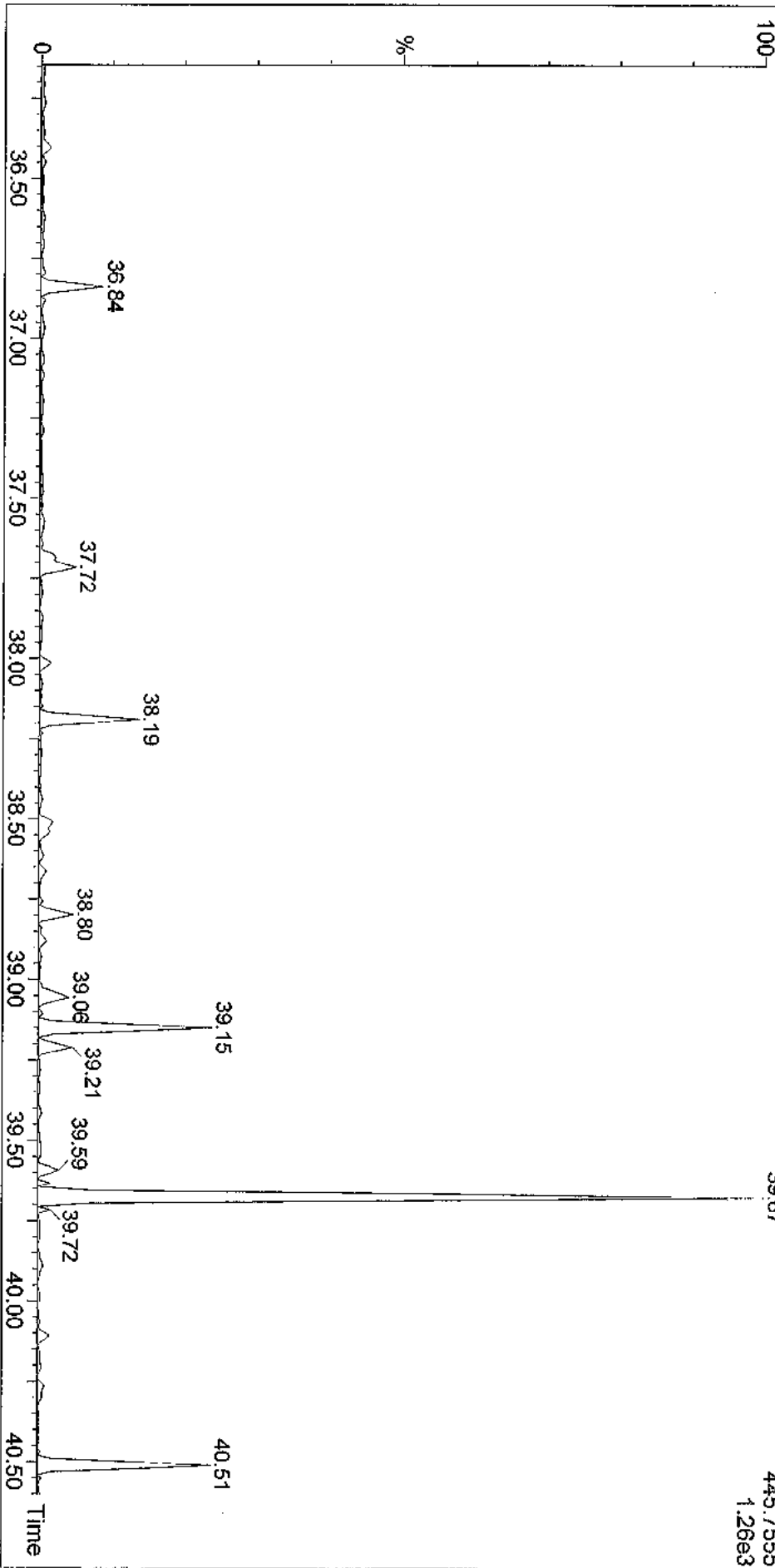
08:33:50

3: Voltage SIR 10 Channels EI+

39.67

445.7555

1.26e3



Quantity Sample Report

Sample List: C:\MASSSTXN\Default-pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSSTXN\Default-pro\METHOD\M3211127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

47: Function 3 Lockmass

SPIKE **HR20211124,1613-S** **AutoSpec Ultima - M536** **09-Dec-2021 08:33:50**

M3211209A02 Sm (SG, 2X2)

100 36.34 36.75 37.08 37.27 37.50 37.70 37.93 38.30 38.60 38.94 39.18 39.39 40.03 380.9760 7.89e6

3: Voltage SIR 10 Channels EI+

%

36.50 37.00 37.50 38.00 38.50 39.00 39.50 40.00 40.50 Time

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMFLDR\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

48: Total's Hepta-Furans

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

AutoSpec Ultima - M536

3.91e3

09-Dec-2021 08:33:50

4: Voltage SIR 10 Channels EI+

407.7818
1.24e7
Area

100

%

41.44
668120

41.80
4288

M3211209A02 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

409.7788
1.18e7
Area

100

%

41.44
634702

41.80
4976

M3211209A02 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

417.8253
1.12e7
Area

100

%

41.43

42.72

M3211209A02 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

419.8220
2.42e7
Area

100

%

41.43

42.72

40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

49: Totals Hepta-Dioxins

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021

08:33:50

4: Voltage S/R 10 Channels EI+

423.7767
 6.89e6
 Area

4.43e2

4.43e2

M3211209A02 Sm (SG, 2X2)

4: Voltage S/R 10 Channels EI+

425.7737
 6.41e6
 Area

4.25e2

4.25e2

M3211209A02 Sm (SG, 2X2)

4: Voltage S/R 10 Channels EI+

435.8169
 1.16e7

1.16e7

M3211209A02 Sm (SG, 2X2)

4: Voltage S/R 10 Channels EI+

437.8140
 1.08e7

1.08e7

Time

Quantity Sample Report

Sample list: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211209A_1613
Last modified: Fri Dec 10 07:11:23 2021
Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02

Text: SPIKE

50: None DPE

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

AutoSpec Ultima - M536

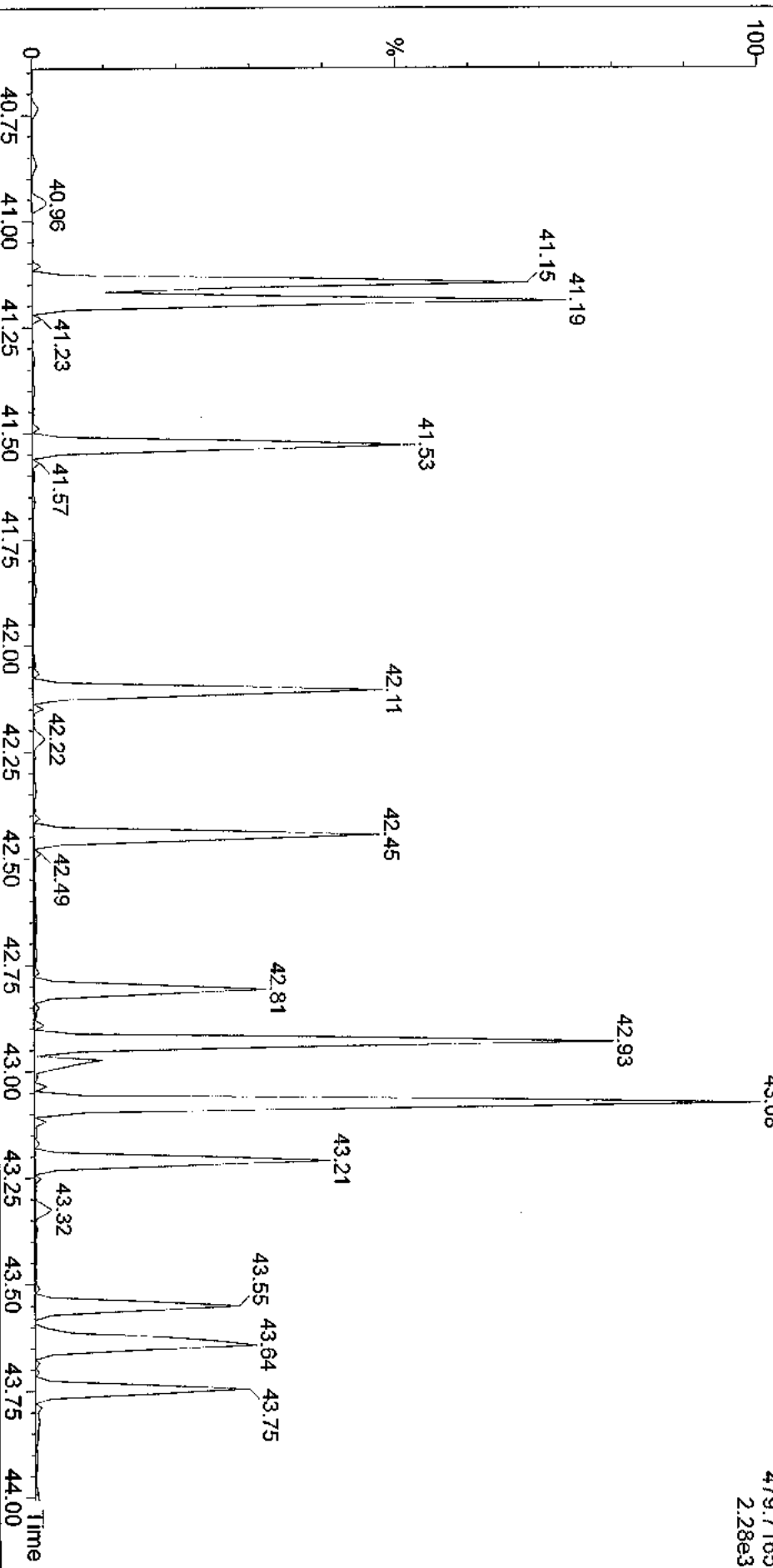
09-Dec-2021

08:33:50

4: Voltage SIR 10 Channels EI+

479.7165

2.28e3



Quantity Sample Report

Sample List: C:\MASSTXN\Default-pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSTXN\Default-pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02

Text: SPIKE

S1: Punction 4 Lockmass

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2X2)

AutoSpec Ultima - M536

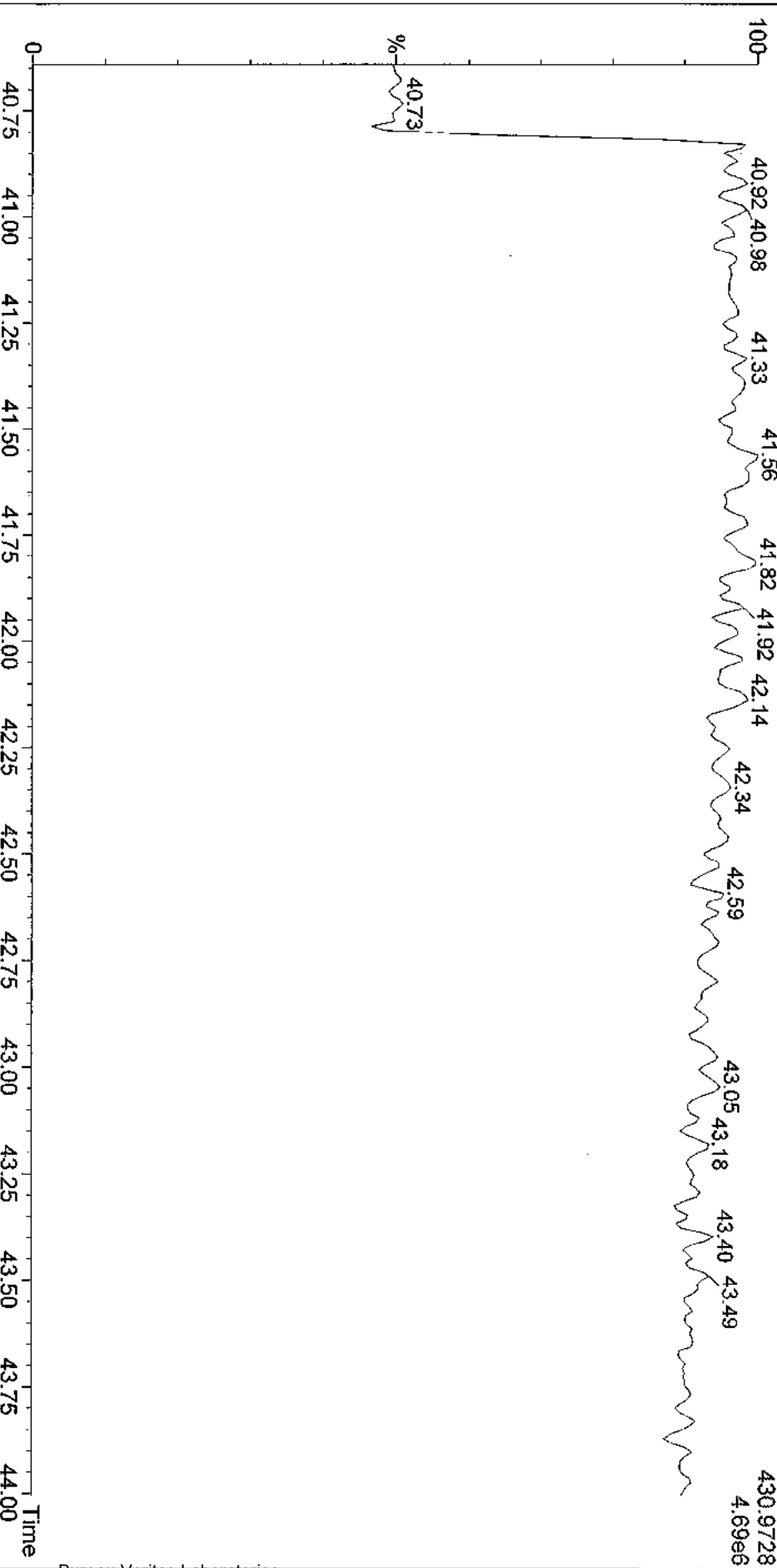
09-Dec-2021

08:33:50

4: Voltage SIR 10 Channels EI+

430.9728

4.69e6



Quantify Sample Report

Sample list: C:\MASSLITX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLITX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

10: OCDF

SPIKE

HR20211124,1613-S

Autospec Ultima - M536

09-Dec-2021

08:33:50

M3211209A02 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.42 603554
 441.7428 9.10e6
 Area

M3211209A02 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.42 673507
 443.7398 1.01e7
 Area

M3211209A02 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.30 822383
 469.7780 1.25e7
 Area

M3211209A02 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.30 962684
 471.7750 1.36e7
 Area

Time

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

17: OCDD

SPIKE

HR20211124,1613-S

M3211209A02 Sm (SG, 2x2)

Autospec Ultima - M536

09-Dec-2021

08:33:50

5: Voltage SIR 8 Channels EI+

457.7377
 7.45e6
 Area

2.79e2

M3211209A02 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

459.7348
 8.20e6
 Area

3.14e2

M3211209A02 Sm (SG, 2x2)

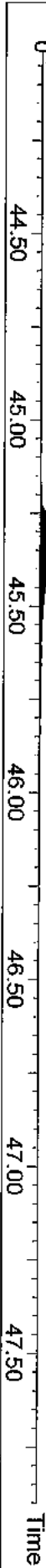
5: Voltage SIR 8 Channels EI+

469.7780
 1.25e7
 Area

M3211209A02 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

471.7750
 1.36e7
 Area



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 07:13:14 2021

Name: M3211209A02
 Text: SPIKE

S3: Punctuation 5 Lockmass

SPIKE

HR20211124,1613-S

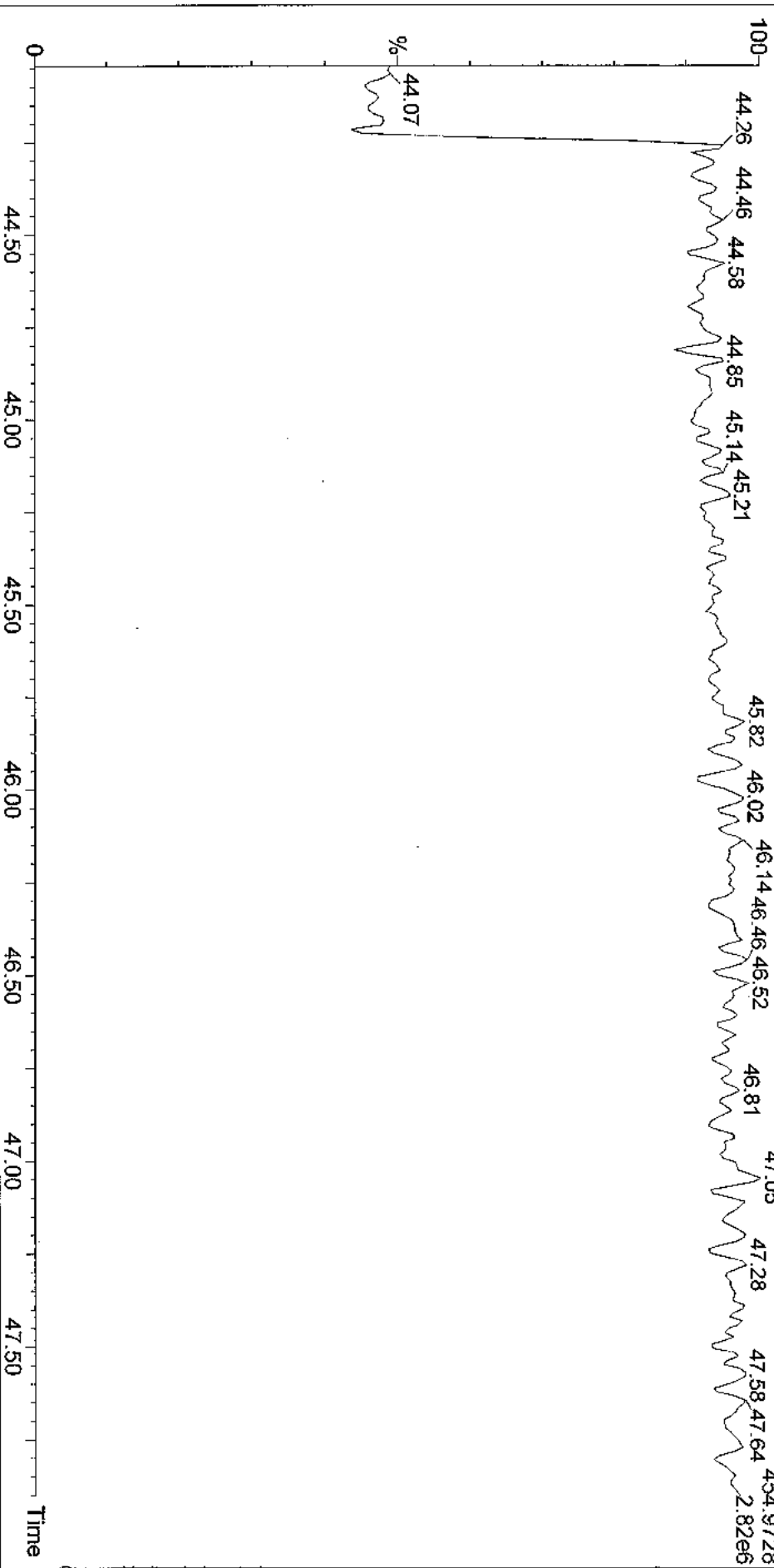
M3211209A02 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021

08:33:50

5: Voltage SIR 8 Channels EI+



File: M3211209A03
 Sample
 Acq: 12/09/2021 9:22
 Smpl: MATSPK%
 Com: MATSPK%
 Smpl: 20.0093

Run
 File: 1127A_1613_5pt
 HR20211124,1613-S, REZ16
 H/Fac: 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	Code	TEF	LOD(pg)	S/N	Mod.User	RRF Mean	%Rec
1	2,3,7,8-TCDF	304	24.55	132165	0.77	303977	21.5147	Rec = 108	2.161	1.08	-0.113826	484	0.97161	
		306	24.57	171812	yes						487			
2	1,2,3,7,8-PeCDF	340	31.88	818200	1.58	1335615	114.1429	Rec = 114	5.707	5.707146	-0.151921	1635	0.979466	
		342	31.93	517415	yes						1563			
3	2,3,4,7,8-PeCDF	340	33.56	992859	1.57	1623461	110.1355	Rec = 110	55.068	5.508774	-0.136545	2370	1.089756	
		342	33.58	630602	yes						2338			
4	1,2,3,4,7,8-HxCDF	374	38.07	643778	1.26	1152506	113.1175	Rec = 113	11.312	5.855876	-0.115604	2213	1.159493	
		376	38.11	508728	yes						2147			
5	1,2,3,6,7,8-HxCDF	374	38.20	690224	1.34	1203991	115.3962	Rec = 115	11.540	5.769812	-0.122452	2197	1.094648	
		376	38.25	513767	yes						2136			
6	2,3,4,6,7,8-HxCDF	374	38.87	724560	1.24	1307766	95.13436	Rec = 95	9.513	4.766718	-0.113924	2655	1.176583	
		376	38.89	533206	yes						2644			
7	1,2,3,7,8,9-HxCDF	374	39.70	615648	1.25	1107612	112.9775	Rec = 113	11.298	5.648873	-0.122154	2015	1.097314	
		376	39.70	491964	yes						2037			
8	1,2,3,4,6,7,8-HpCDF	408	41.43	410794	1.04	804561	126.3448	Rec = 128	1.263	6.317242	-0.138426	2158	1.208367	
		410	41.43	393767	yes						2180			
9	1,2,3,4,7,8,9-HpCDF	408	42.72	452955	1.12	857053	115.5854	Rec = 116	1.156	5.779288	-0.142113	2145	1.177018	
		410	42.71	404098	yes						2090			
10	OCDF	442	45.41	421921	0.94	869528	338.7958	Rec = 189	0.339	16.93979	-0.186461	4996	1.259902	
		444	45.41	447607	yes						4793			
11	2,3,7,8-TCDD	320	25.61	81207	0.81	181970	18.58336	Rec = 93	18.683	0.929168	-0.195297	240	1.240957	
		322	25.73	100763	yes						236			
12	1,2,3,7,8-PeCDD	356	34.28	501729	1.61	812545	98.47921	Rec = 99	49.240	4.92396	-0.143562	1749	1.116262	
		358	34.31	310816	yes						1700			
13	1,2,3,4,7,8-HxCDD	390	39.06	441337	1.32	776631	112.7947	Rec = 113	11.279	5.639733	-0.158549	1842	1.111453	
		392	39.05	335298	yes						1776			
14	1,2,3,6,7,8-HxCDD	390	39.15	489173	1.26	877681	117.8563	Rec = 110	11.786	5.892815	-0.157389	1816	1.119648	
		392	39.17	388509	yes						1774			
15	1,2,3,7,8,9-HxCDD	390	39.49	434705	1.26	779946	109.0437	Rec = 109	10.904	5.462183	-0.157709	1621	1.117372	
		392	39.50	345241	yes						1598			
16	1,2,3,4,6,7,8-HpCDD	424	42.37	266697	1.09	510649	114.0736	Rec = 114	1.141	5.703678	-0.161506	1935	1.084762	
		426	42.36	243952	yes						1849			
17	OCDD	458	45.29	289148	0.96	591156	270.8268	Rec = 135	0.271	13.54134	-0.175233	4012	1.054514	
		460	45.29	302008	yes						3961			
18	13C-2,3,7,8-TCDF	316	24.53	1287318	0.8	2906983	1485.259				1.063	4993	2.144584	74
		318	24.57	1619665	yes						3756			
19	13C-1,2,3,7,8-PeCDF	352	31.85	1479911	1.63	2388202	1658.972				1.624	2968	1.577374	83
		354	31.89	908291	yes						1580			
20	13C-2,3,4,7,8-PeCDF	352	33.53	1670937	1.62	2704041	1931.046				1.67	3929	1.584347	97
		354	33.57	1033105	yes						2166			
21	13C-1,2,3,4,7,8-HxCDF	384	38.05	608138	0.53	1756617	1343.28				2.888	925	1.332773	67
		386	38.09	1148479	yes						2000			
22	13C-1,2,3,6,7,8-HxCDF	384	38.18	664143	0.54	1905395	1353.165				2.682	942	1.435092	68
		386	38.20	1241252	yes						1982			
23	13C-2,3,4,6,7,8-HxCDF	384	38.85	802307	0.52	2335599	1778.534				2.876	1312	1.338387	89
		386	38.87	1533292	yes						2831			
24	13C-1,2,3,7,8,9-HxCDF	384	39.69	611032	0.53	1786048	1455.023				3.077	906	1.251033	73
		386	39.69	1165016	yes						1971			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.41	325471	0.45	1053490	847.85				1.846	1273	1.266359	42
		420	41.41	728020	yes						1830			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.71	397558	0.46	1259360	1207.129				2.199	1461	1.063266	60
		420	42.71	861803	yes						2075			
27	13C-2,3,7,8-TCDD	332	25.58	723037	0.85	1577419	1491.253				1.256	3029	1.159041	75
		334	25.70	854382	yes						4043			
28	13C-1,2,3,7,8-PeCDD	368	34.26	911249	1.61	1477627	1970.78				1.712	4168	0.821541	99
		370	34.29	566578	yes						2646			
29	13C-1,2,3,4,7,8-HxCDD	402	39.04	701948	1.31	1238407	1385.698				2.416	2640	0.910836	69
		404	39.06	536459	yes						1408			
30	13C-1,2,3,6,7,8-HxCDD	402	39.14	749946	1.29	1329630	1423.811				2.312	2605	0.951752	71
		404	39.15	580283	yes						1388			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.36	427395	1.08	824957	892.973				1.662	2177	0.941539	45
		438	42.36	397562	yes						1402			
32	13C-OCDD	470	45.28	395555	0.92	827592	1117.774				0.896	3046	0.754584	28
		472	45.29	452036	yes						3449			
33	13C-1,2,3,4-TCDD	332	25.31	832451	0.84	1825270	39.378				0.029	3549	46352.42	2
		334	25.34	992819	yes						4795			
34	13C-1,2,3,7,8,9-HxCDD	402	39.48	1129269	1.36	1962386	36.915				0.041	3869	53159.29	2
		404	39.49	833118	yes						2057			
35	13C-2,3,7,8-TCDD	328	25.61	212019	1	424038	184.53				0.167	3181	2.517916	92
		328	25.62	212019	yes						3181			
36	Totals Tetra-Furans	304	-	0	-	0	21.5147		1		-0.113826	-	0.97161	-
		306	26.00	0	-						-			
37	Totals Tetra-Dioxins	320	-	0	-	0	18.58336		1		-0.195297	-	1.240957	-
		322	26.00	0	-						-			
38	Totals Penta-Furans	340	-	0	-	0	224.2784		2		-0.143823	-	1.094611	-

		342	34.00	0	-								
39	Totals Penta-Dioxins	356	-	0	-	0	98.47921	1	-0.143582	-	1.116262	-	
		358	34.00	0	-								
40	Totals Hexa-Furans	374	-	0	-	0	436.6256	4	-0.11841	-	1.132007	-	
		376	39.50	0	-								
41	Totals Hexa-Dioxins	390	-	0	-	0	339.6946	3	-0.159016	-	1.108192	-	
		392	39.50	0	-								
42	Totals Hepta-Furans	408	-	0	-	0	241.9802	2	-0.140246	-	1.192692	-	
		410	42.50	0	-								
43	Totals Hepta-Dioxins	424	-	0	-	0	114.0736	1	-0.161506	-	1.084762	-	
		426	42.50	0	-								

Totals Compound 36: Totals Tetra-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
36	Totals Tetra-Furans	304	23.29	974	0.96	1989	0.140835	4		0.97161	-	
		306	26.00	1015	no			3				
36	Totals Tetra-Furans	304	23.60	1045	0.74	2456	0.173819	5		0.97161	-	
		306	26.00	1411	no			4				
36	Totals Tetra-Furans	304	24.00	1077	0.83	2381	0.168522	4		0.97161	-	
		306	26.00	1304	no			4				
1	2,3,7,8-TCDF	304	24.55	132165	0.77	303977	21.5147	484		0.97161	108	
		306	24.57	171812	yes			437				

Totals Compound 37: Totals Tetra-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
37	Totals Tetra-Dioxins	320	23.95	595	0.69	1464	0.14953	2		1.240957	-	
		322	26.00	869	no			2				
37	Totals Tetra-Dioxins	320	25.46	1579	0.73	3748	0.382822	5		1.240957	-	
		322	26.00	2189	no			6				
11	2,3,7,8-TCDD	320	25.61	81207	0.81	181970	18.58336	240		1.240957	93	
		322	25.73	100763	yes			235				

Totals Compound 38: Totals Penta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
38	Totals Penta-Furans	340	23.95	4779	1.71	7580	0.573724	9		1.034611	-	
		342	34.00	2801	no			7				
38	Totals Penta-Furans	340	31.09	643	1.73	1016	0.0769	2		1.034611	-	
		342	34.00	373	no			3				
2	1,2,3,7,8-PeCDF	340	31.88	818200	1.58	1335615	114.1429	1635		0.979466	114	
		342	31.93	517415	yes			1563				
38	Totals Penta-Furans	340	32.27	792	1.9	1210	0.091583	2		1.034611	-	
		342	34.00	418	no			3				
38	Totals Penta-Furans	340	32.58	17424	1.48	29194	2.20967	38		1.034611	-	
		342	34.00	11769	no			40				
3	2,3,4,7,8-PeCDF	340	33.56	992859	1.57	1623461	110.1355	2370		1.089756	110	
		342	33.58	630602	yes			2338				
38	Totals Penta-Furans	340	34.30	571	1.58	932	0.070542	2		1.034611	-	
		342	34.00	361	no			2				
38	Totals Penta-Furans	340	35.24	5779	1.85	8912	0.674541	15		1.034611	-	
		342	34.00	3133	no			16				

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
39	Totals Penta-Dioxins	356	33.68	813	1.77	1273	0.154328	3		1.116262	-	
		358	34.00	460	no			3				
12	1,2,3,7,8-PeCDD	356	34.28	501729	1.61	812545	98.47921	1749		1.116262	99	
		358	34.31	310316	yes			1700				

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
40	Totals Hexa-Furans	374	36.69	640	1.66	1024	0.092772	2		1.132007	-	
		376	39.50	384	no			2				
40	Totals Hexa-Furans	374	36.91	1374	1.96	2076	0.18808	5		1.132007	-	
		376	39.50	702	no			2				
4	1,2,3,4,7,8-HxCDF	374	38.07	643778	1.26	1152506	113.1175	2213		1.159483	113	
		376	38.11	508728	yes			2147				
5	1,2,3,6,7,8-HxCDF	374	38.20	690224	1.34	1203991	115.3962	2197		1.094648	115	
		376	38.25	513767	yes			2136				
6	2,3,4,6,7,8-HxCDF	374	38.87	724560	1.24	1307766	95.13436	2655		1.176583	95	
		376	38.89	583206	yes			2644				
7	1,2,3,7,8,9-HxCDF	374	39.70	615648	1.25	1107612	112.9775	2015		1.097314	113	
		376	39.70	491964	yes			2037				
40	Totals Hexa-Furans	374	40.00	10038	1.61	16268	1.473837	19		1.132007	-	
		376	39.50	6230	no			16				
40	Totals Hexa-Furans	374	40.20	703	2.01	1054	0.09549	3		1.132007	-	
		376	39.50	351	no			3				

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.48	1565	1.32	2754	0.388224	7		1.108192	-
		392	39.50	1189	no			6			
41	Totals Hexa-Dioxins	390	38.39	771	1.73	1217	0.171557	2		1.108192	-
		392	39.50	445	no			3			
13	1,2,3,4,7,8-HxCDD	390	39.06	441337	1.32	776631	112.7947	1842		1.111453	113
		392	39.05	335293	yes			1776			
14	1,2,3,6,7,8-HxCDD	390	39.15	489173	1.26	877681	117.8563	1816		1.119648	118
		392	39.17	388509	yes			1774			
15	1,2,3,7,8,9-HxCDD	390	39.49	434705	1.26	779946	109.0497	1621		1.093474	107
		392	39.50	345241	yes			1598			
41	Totals Hexa-Dioxins	390	39.82	2368	0.93	4919	0.693419	11		1.108192	-
		392	39.50	2551	no			10			
41	Totals Hexa-Dioxins	390	39.88	1626	1.94	2462	0.347062	7		1.108192	-
		392	39.50	836	no			5			
41	Totals Hexa-Dioxins	390	39.92	1029	1.67	1644	0.23175	6		1.108192	-
		392	39.50	615	no			5			
41	Totals Hexa-Dioxins	390	40.01	2414	1.56	3958	0.557949	8		1.108192	-
		392	39.50	1544	no			5			

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
8	1,2,3,4,6,7,8-HpCDF	408	41.43	410794	1.04	804561	126.3448	2158		1.208367	126
		410	41.43	393767	yes			2130			
42	Totals Hepta-Furans	408	41.79	1757	1.17	3254	0.475233	11		1.192692	-
		410	42.50	1497	no			9			
9	1,2,3,4,7,8,9-HpCDF	408	42.72	452955	1.12	857053	115.5854	2145		1.177018	116
		410	42.71	404098	yes			2090			

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
43	Totals Hepta-Dioxins	424	41.72	4636	1.1	8865	1.964884	35		1.084762	-
		426	42.50	4230	no			31			
16	1,2,3,4,6,7,8-HpCDD	424	42.37	266697	1.09	510649	114.0736	1935		1.084762	114
		426	42.36	243952	yes			1849			

Scientific Sample Report

Sample list: C:\MSDCHEM\Default.pro\SMFLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

36: Totals Tetra-Purans

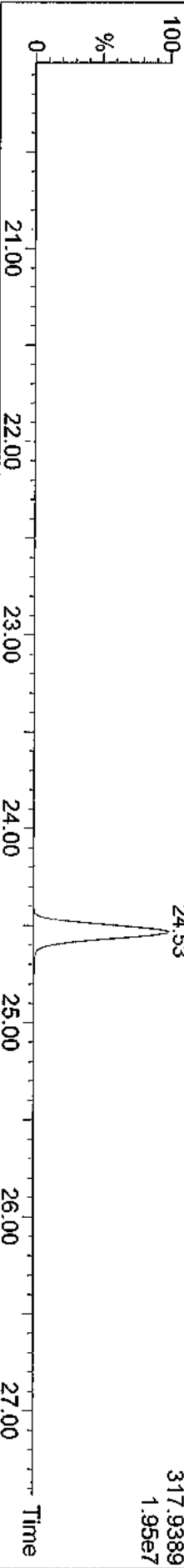
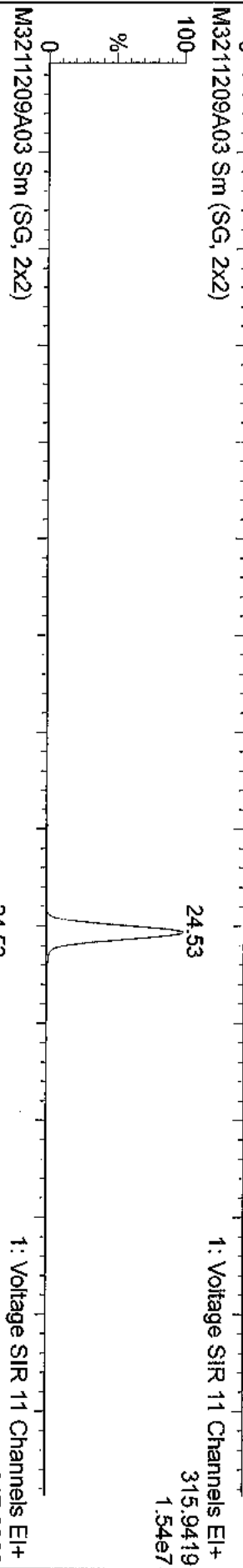
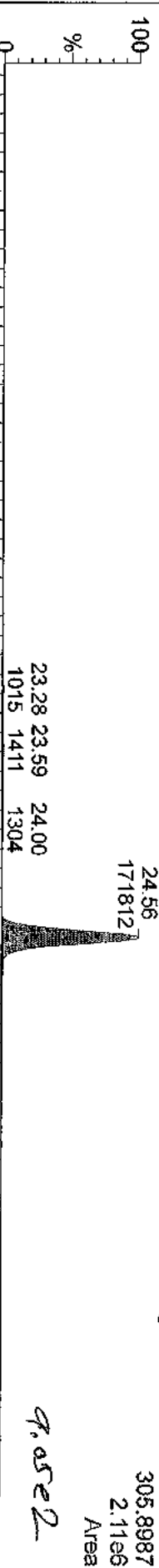
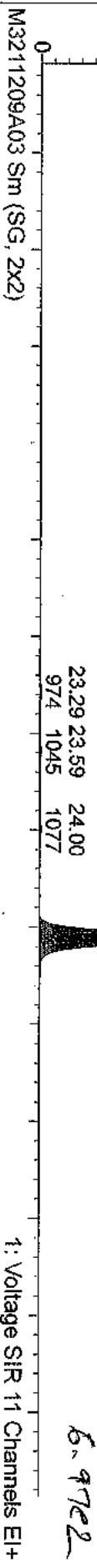
MATSPK%, REZ818
 HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)

AutoSpec Ultima - M536

3.32e3

09-Dec-2021
 09:22:31



Quantity Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

37: Totals Tetra-Dioxins

MATSPK%, REZ818

HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

09:22:31

1: Voltage SIR 11 Channels EI+

319.8965
 9.46e5
 Area

8.37e2

1: Voltage SIR 11 Channels EI+

321.8936
 1.21e6
 Area

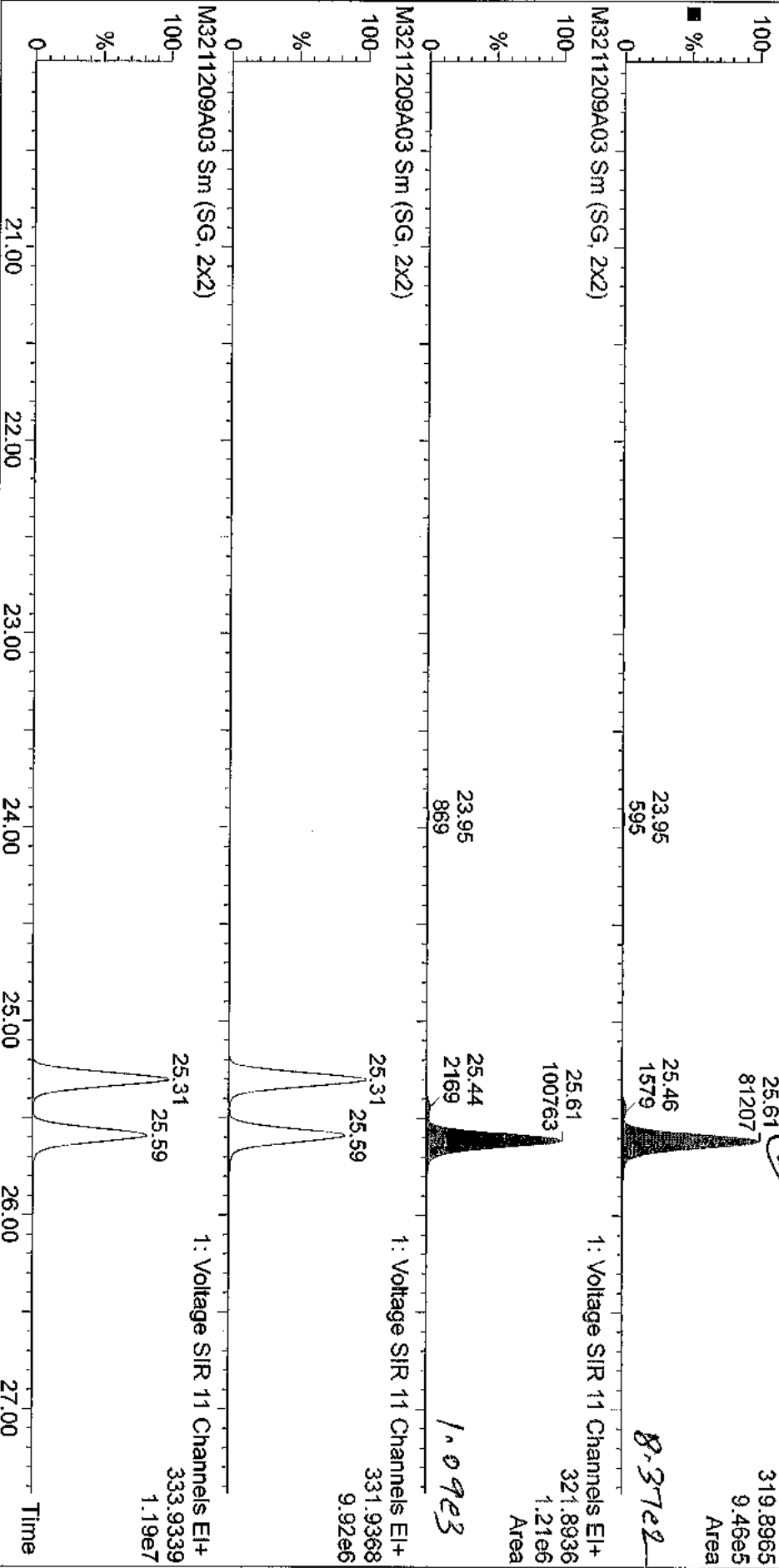
1.09e3

1: Voltage SIR 11 Channels EI+

331.9368
 9.92e6

1: Voltage SIR 11 Channels EI+

333.9339
 1.19e7



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAFETY\MS211209A_1613
Last modified: Fri Dec 10 07:11:23 2021
Method: C:\MSDCHEM\Default.pro\METHOD\MS21127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: MS211209A03
Text: MATSPK%, REZ818

35: C137-2,3,7,8-TCDD

MATSPK%, REZ818

HR20211124,1613-S

MS211209A03 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

09:22:31

1: Voltage SIR 11 Channels EI+

327.8850

2.42e6

Area

%

MS211209A03 Sm (SG, 2x2)

100

25.61
212019

1: Voltage SIR 11 Channels EI+

327.8850

2.42e6

Area

%

MS211209A03 Sm (SG, 2x2)

100

25.31
832451

1: Voltage SIR 11 Channels EI+

331.9368

9.92e6

Area

%

MS211209A03 Sm (SG, 2x2)

100

25.31
992819

1: Voltage SIR 11 Channels EI+

333.9339

1.19e7

Area

%

24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50

Time

Quantity Sample Report

Sample list: C:\MSSTXK\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTXK\Default.pro\METHOD\M321127A_FC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

38: Hexa DPE

MATSPK%, REZ818
HR20211124,1613-S

M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

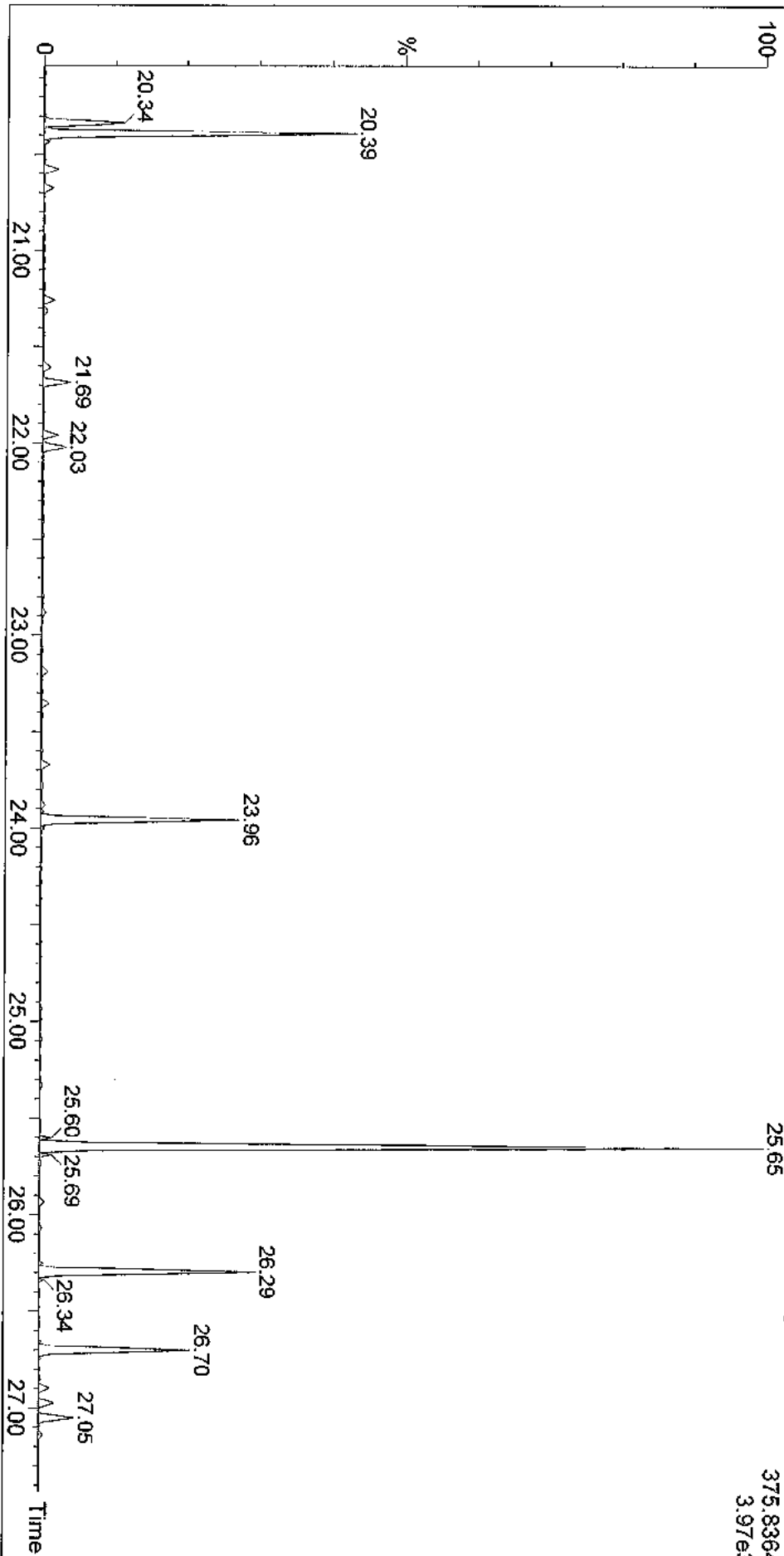
09-Dec-2021

09:22:31

1: Voltage SIR 11 Channels EI+

375.8364

3.97e3



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLES\M3211209A_1613
Last modified: Fri Dec 10 07:11:23 2021
Method: C:\MASSLYNX\Default.pro\METHODS\M3211127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
Text: MATSPK%, REZ818

39: Function 1 Lockmass

MATSPK%, REZ818
HR20211124, 1613-S

M3211209A03 Sm (SG, 2X2)

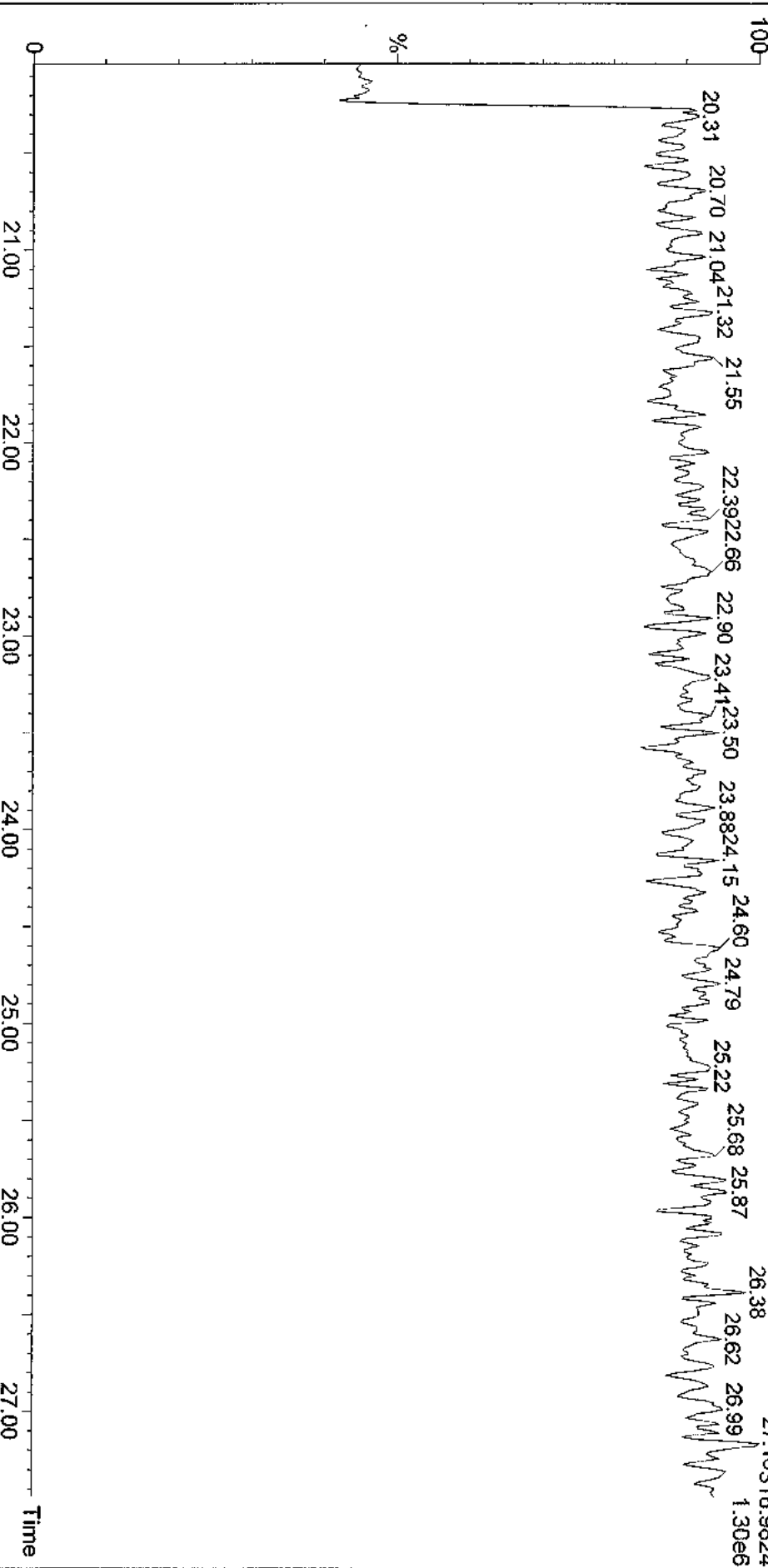
AutoSpec Ultima - M536

09-Dec-2021

09:22:31

1: Voltage SIR 11 Channels EI+

26.38 26.62 26.99 1.30e6



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M3211127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

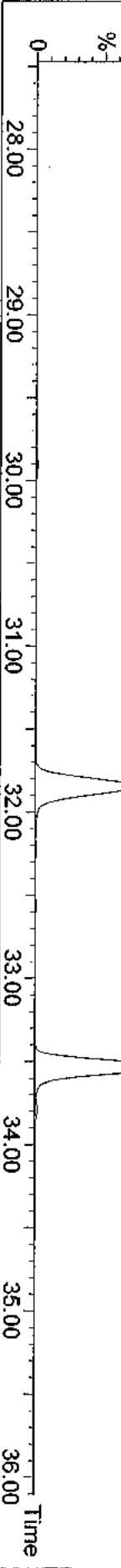
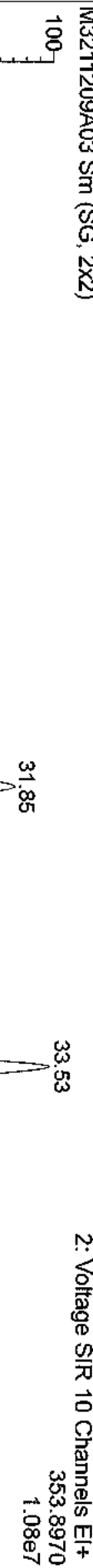
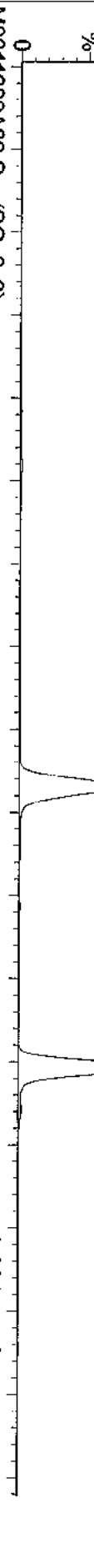
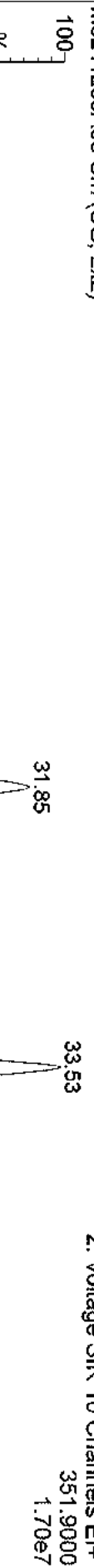
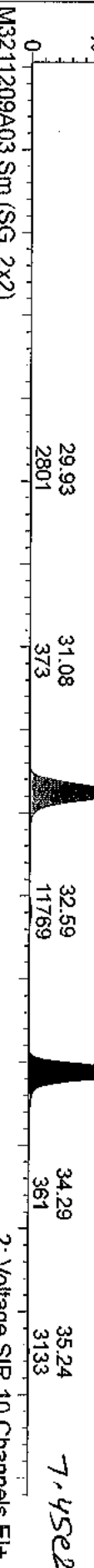
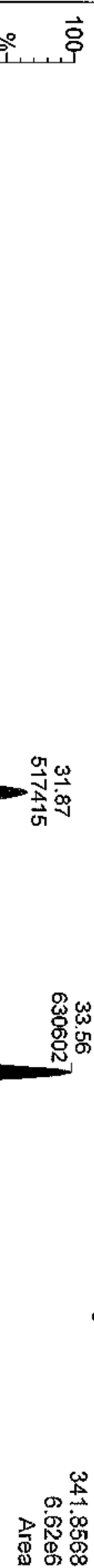
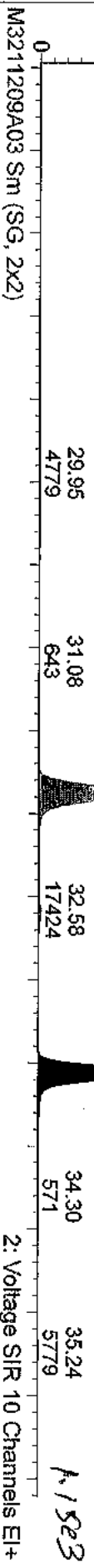
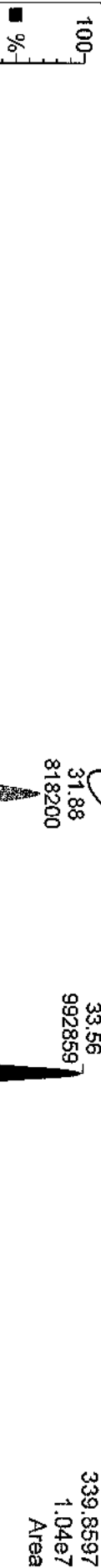
Name: M3211209A03
 Text: MATSPK%, REZ818

40: Totals Pent-Fluorans

AutoSpec Ultima - M536

MATSPK%, REZ818
 HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)



Quantify Sample Report

Sample Use: C:\MASSLVRX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLVRX\Default.pro\METHOD\M3211127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, RE2818

41: Total: Penta-Dioxins

AutoSpec Ultima - M536

MATSPK%, RE2818
 HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)

09-Dec-2021
 09:22:31



M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MASSLTX\Default-pro\SAMPLEDE\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

42: Hepca.DPE

MATSPK%, REZ818
HR20211124,1613-S

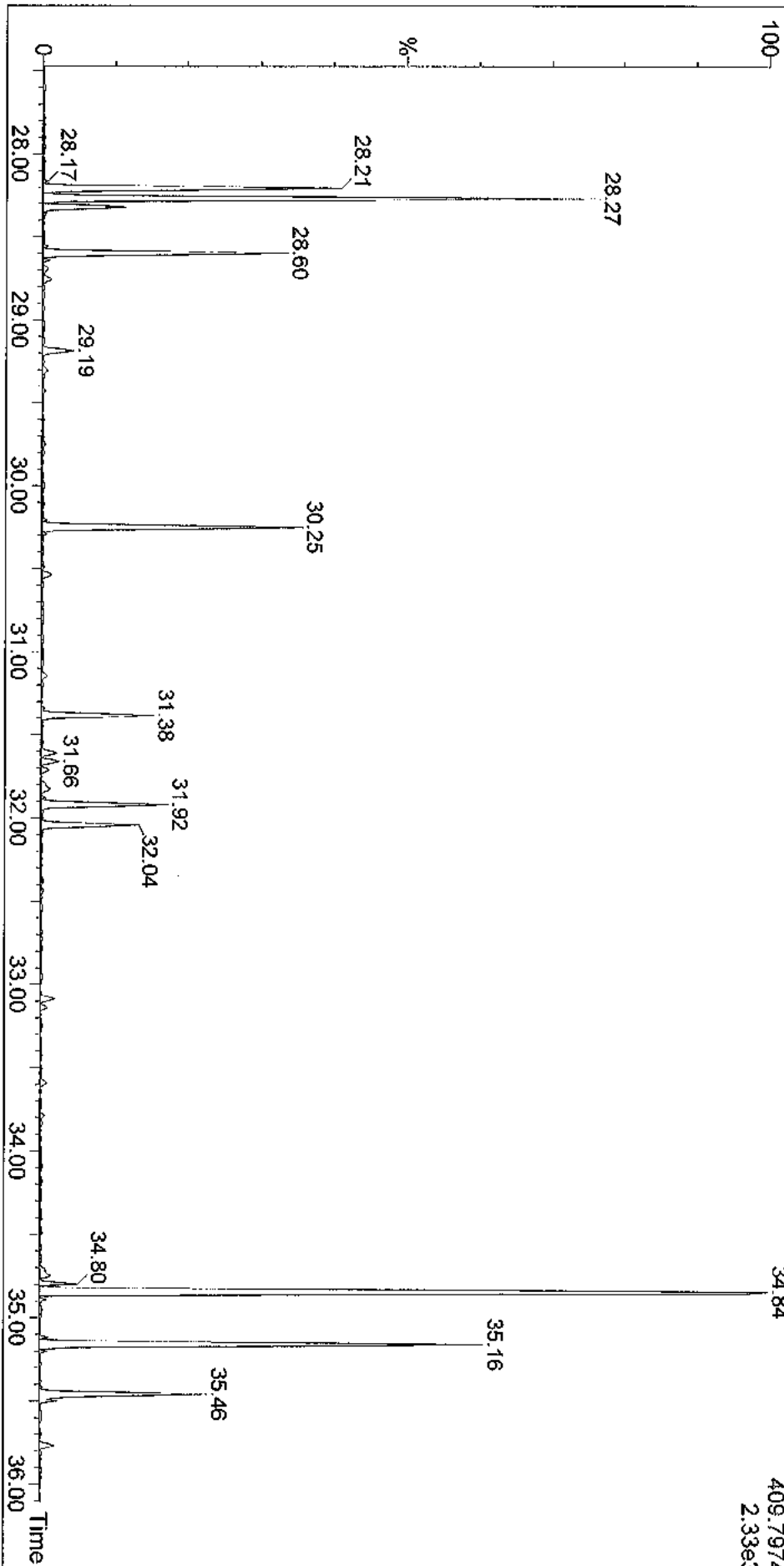
M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021

09:22:31

2: Voltage SIR 10 Channels EI+
 34.84
 409.7974
 2.33e3



Quantity Sample Report

Sample List: C:\MSSTNEX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTNEX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

43: Function 2 Lockmass

MATSPK%, REZ818
HR20211124,1613-S

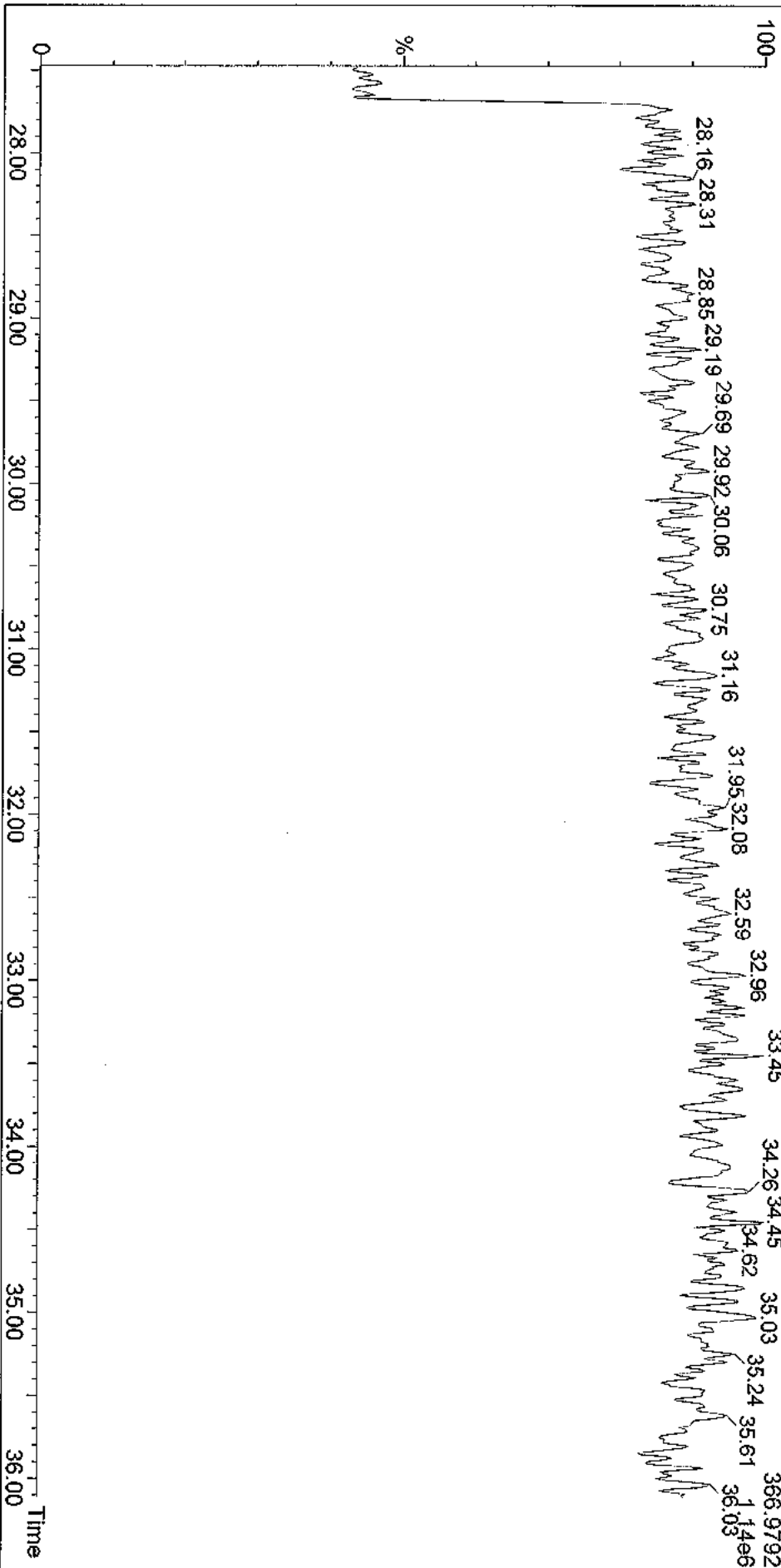
M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021
09:22:31

2: Voltage S/R 10 Channels EI+

366.9792
 1.14e6



Quantity Sample Report

Sample List: C:\MASSSTXK\Default-pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSSTXK\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

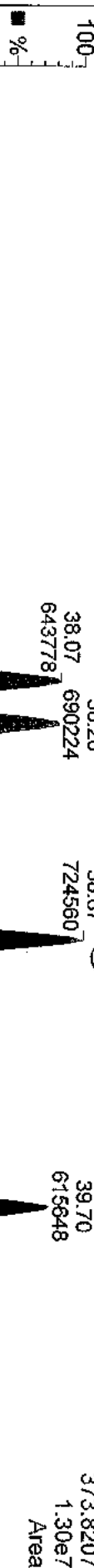
Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

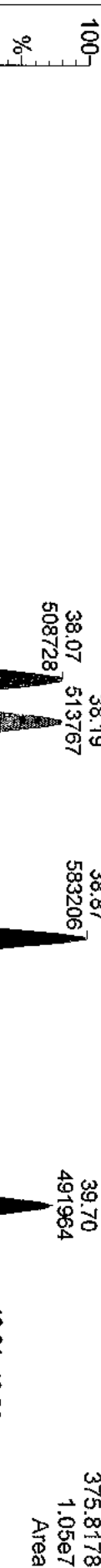
44: Totals, Hexa-Purans

MATSPK%, REZ818
HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)



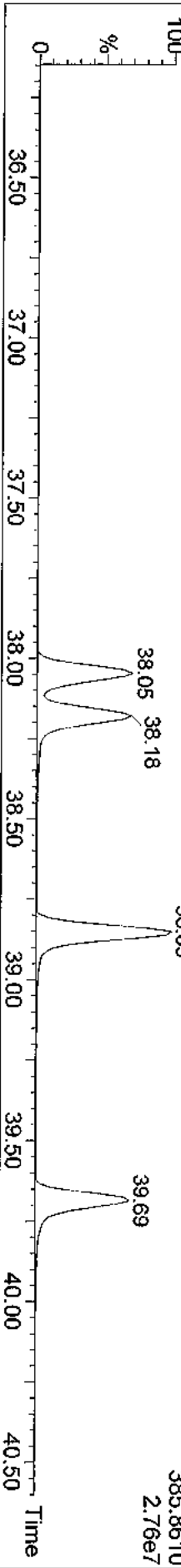
M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



Quantify Sample Report

Sample Id: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

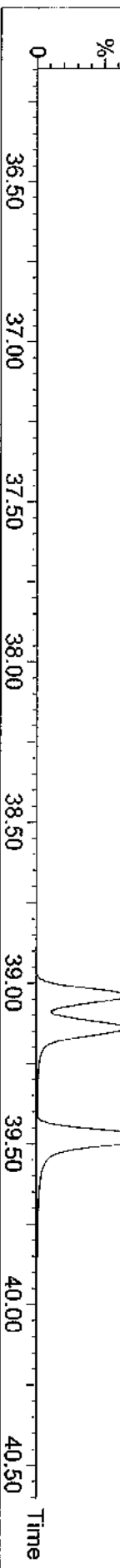
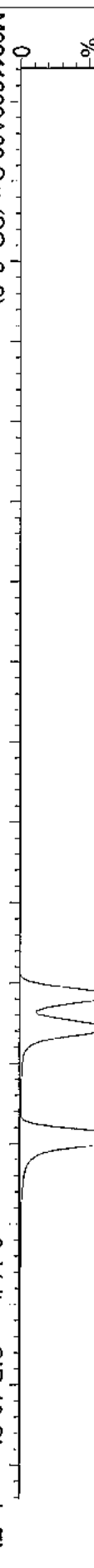
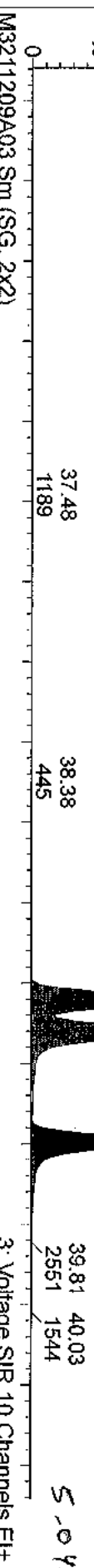
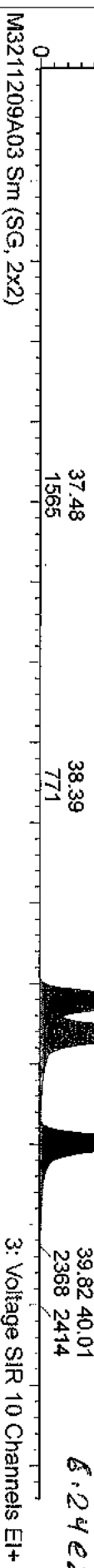
Name: M3211209A03
 Text: MATSPK%, REZ818

45: Totals Hexa-Dioxins

AutoSpec Ultima - M536

MATSPK%, REZ818
 HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

46: Octa DPE

MATSPK%, REZ818

HR20211124,1613-S

M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

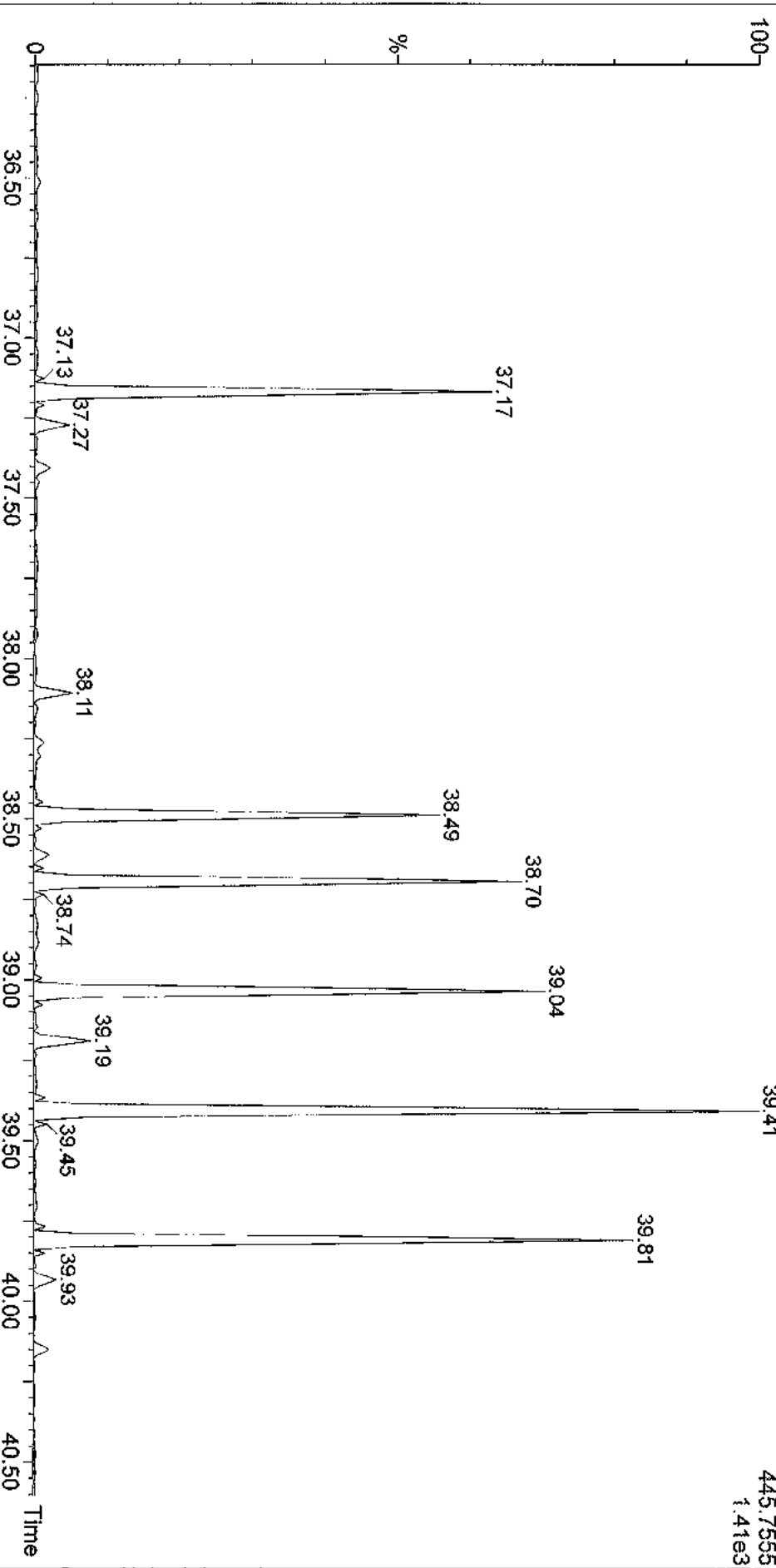
09-Dec-2021

09:22:31

3: Voltage SIR 10 Channels El+

445.7555

1.41e3



Quantity Sample Report

Sample List: C:\MASSL\X\Default.pro\SMPLMDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSL\X\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

47: Function 3 Lockmass

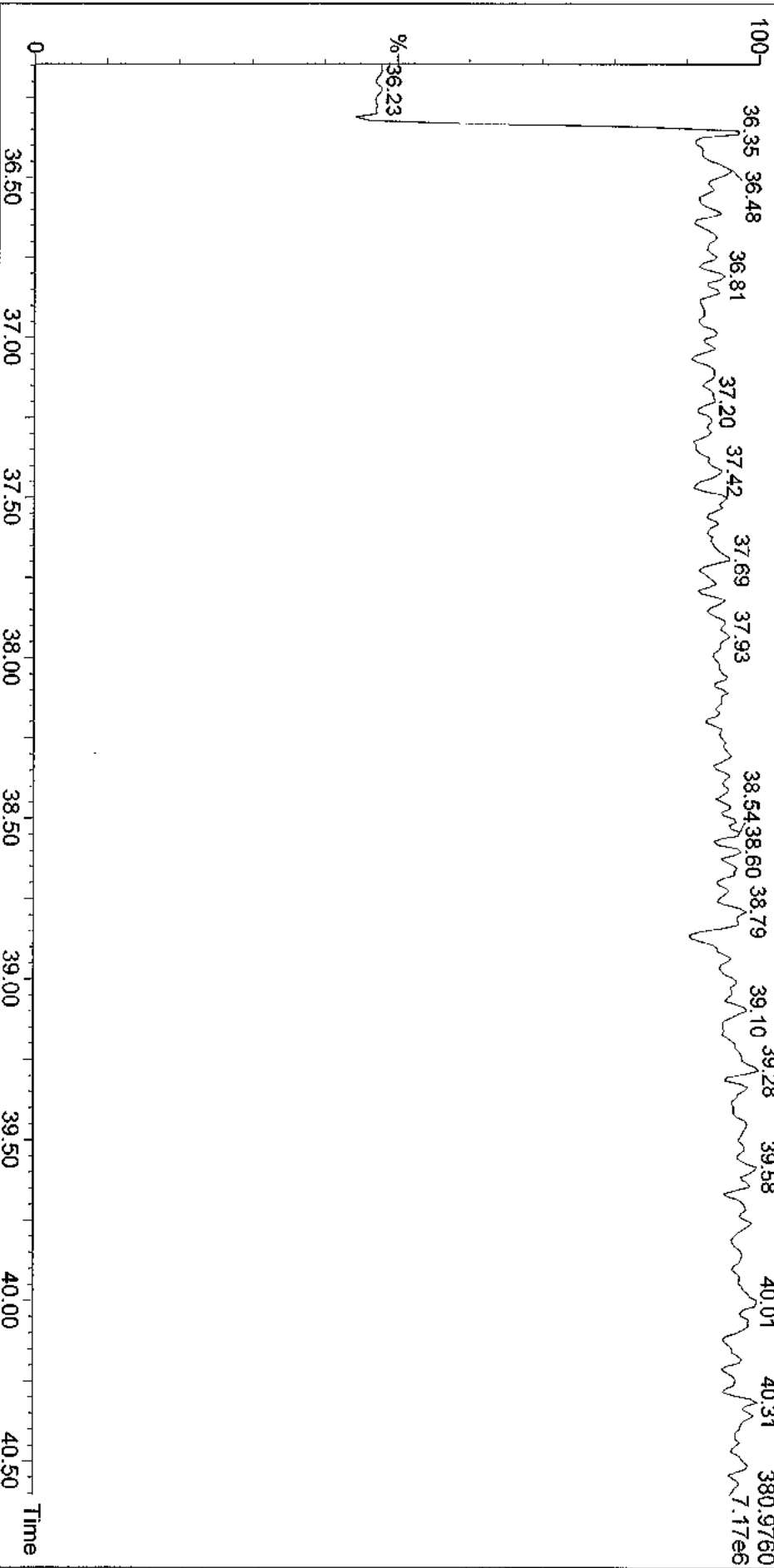
MATSPK%, REZ818
HR20211124,1613-S

M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021
 09:22:31

3: Voltage SIR 10 Channels EI+



Quantity Sample Report

Sample List: C:\MSDLINK\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDLINK\Default.pro\METHOD\M3211127A_MC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

48: Totals Hepta-Furans

AutoSpec Ultima - M536

MATSPK%, REZ818
 HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

Quantity Sample Report

Sample list: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209A_1613
 Test modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

49: Totals Hepta-Dioxins

MATSPK%, REZ818
 HR20211124,1613-S

M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021

09:22:31

4: Voltage SIR 10 Channels EI+

42.37
 266697

Area

3.71e2

M3211209A03 Sm (SG, 2X2)

41.72
 4636

4: Voltage SIR 10 Channels EI+

42.37
 243952

Area

3.57e2

M3211209A03 Sm (SG, 2X2)

41.72
 4230

4: Voltage SIR 10 Channels EI+

42.35

435.8169
 7.60e6

M3211209A03 Sm (SG, 2X2)

42.35

437.8140
 6.94e6

Time
 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00

Quantity Sample Report

Sample list: C:\MASSVIEW\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSVIEW\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

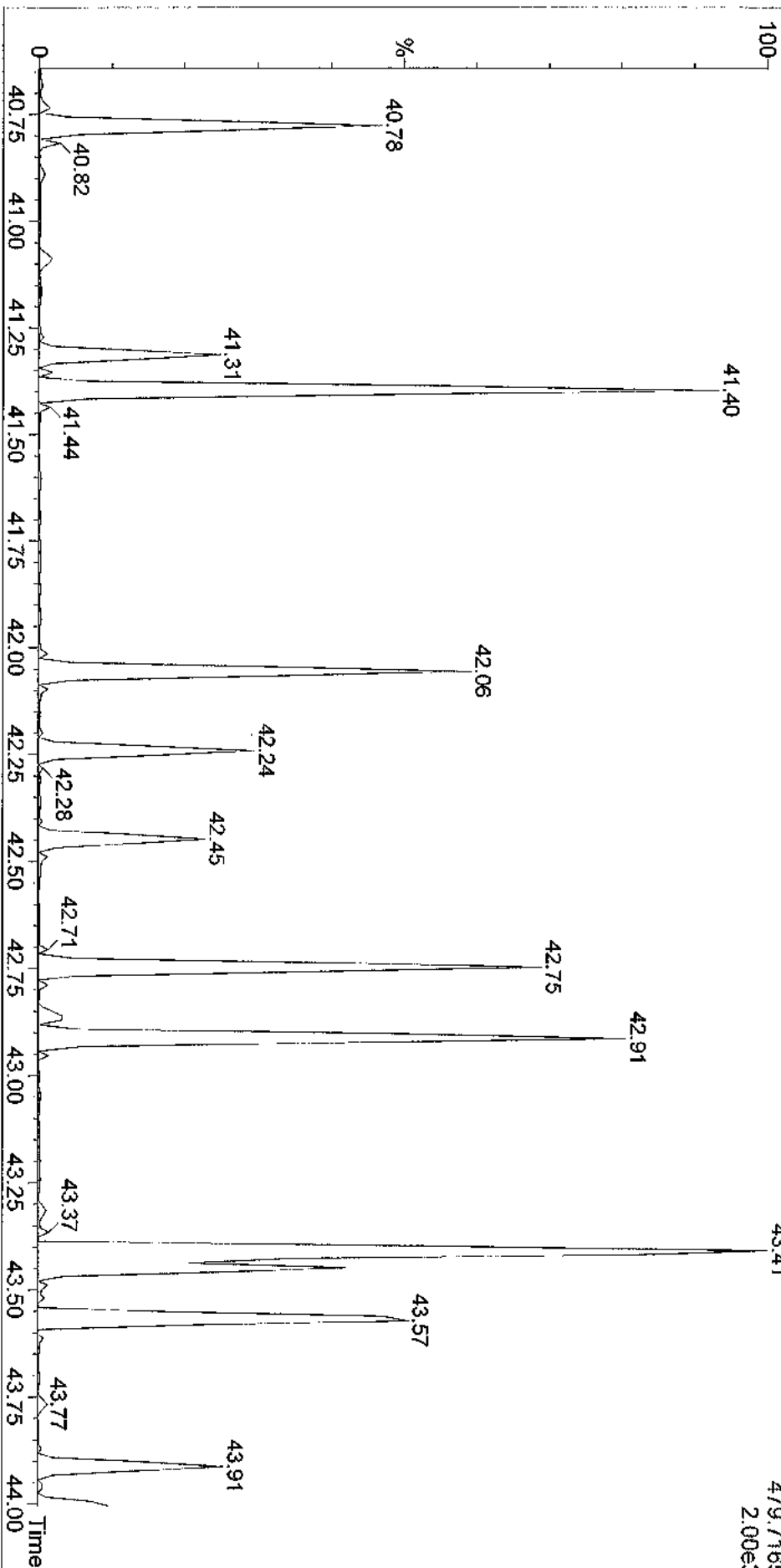
SO: Nona DPS

MATSPK%, REZ818
HR20211124,1613-S
 M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021
 09:22:31

4: Voltage SFR 10 Channels EI+
 479.7165
 2.00e3



Quantify Sample Report

Sample list: C:\MASSLINK\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLINK\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

SI: Function 4 Lockmass

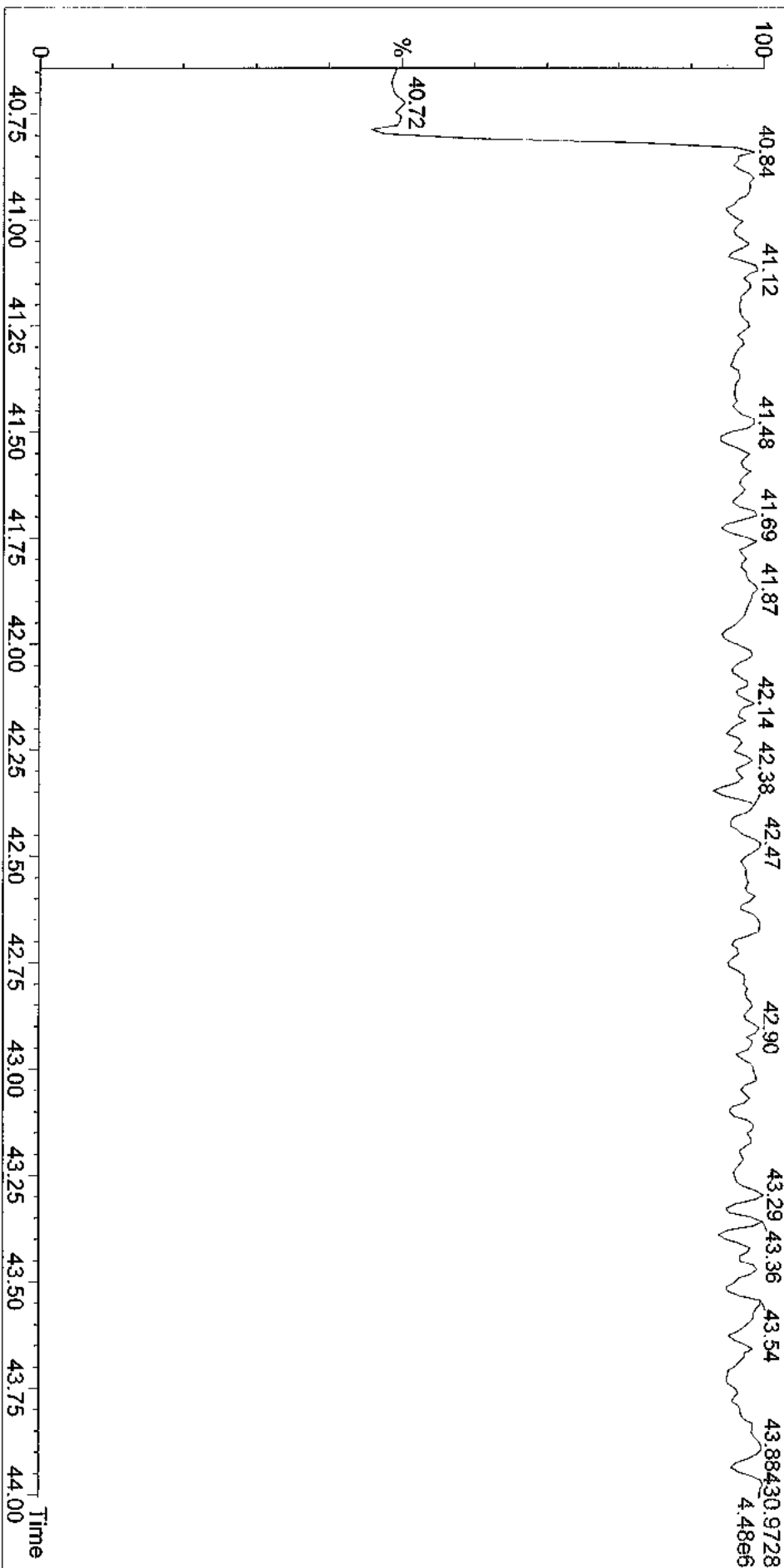
MATSPK%, REZ818
HR20211124,1613-S

M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021
 09:22:31

4: Voltage S/R 10 Channels EI+



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

10: OCMF

MATSPK%, REZ818
 HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 09:22:31
 5: Voltage SIR 8 Channels EI+



M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



M3211209A03 Sm (SG, 2x2)



Quantify Sample Report

Sample list: C:\MSSTYX\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

17: O.C.D

MATSPK%, REZ818

HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

09:22:31

5: Voltage SIR 8 Channels EI+

457.7377

4.13e6

Area

1.80e2

5: Voltage SIR 8 Channels EI+

459.7348

4.62e6

Area

2.03e2

M3211209A03 Sm (SG, 2x2)

45.29

302008

5: Voltage SIR 8 Channels EI+

469.7780

5.65e6

Area

M3211209A03 Sm (SG, 2x2)

45.28

432036

5: Voltage SIR 8 Channels EI+

471.7750

6.23e6

Area

Time

Quantify Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

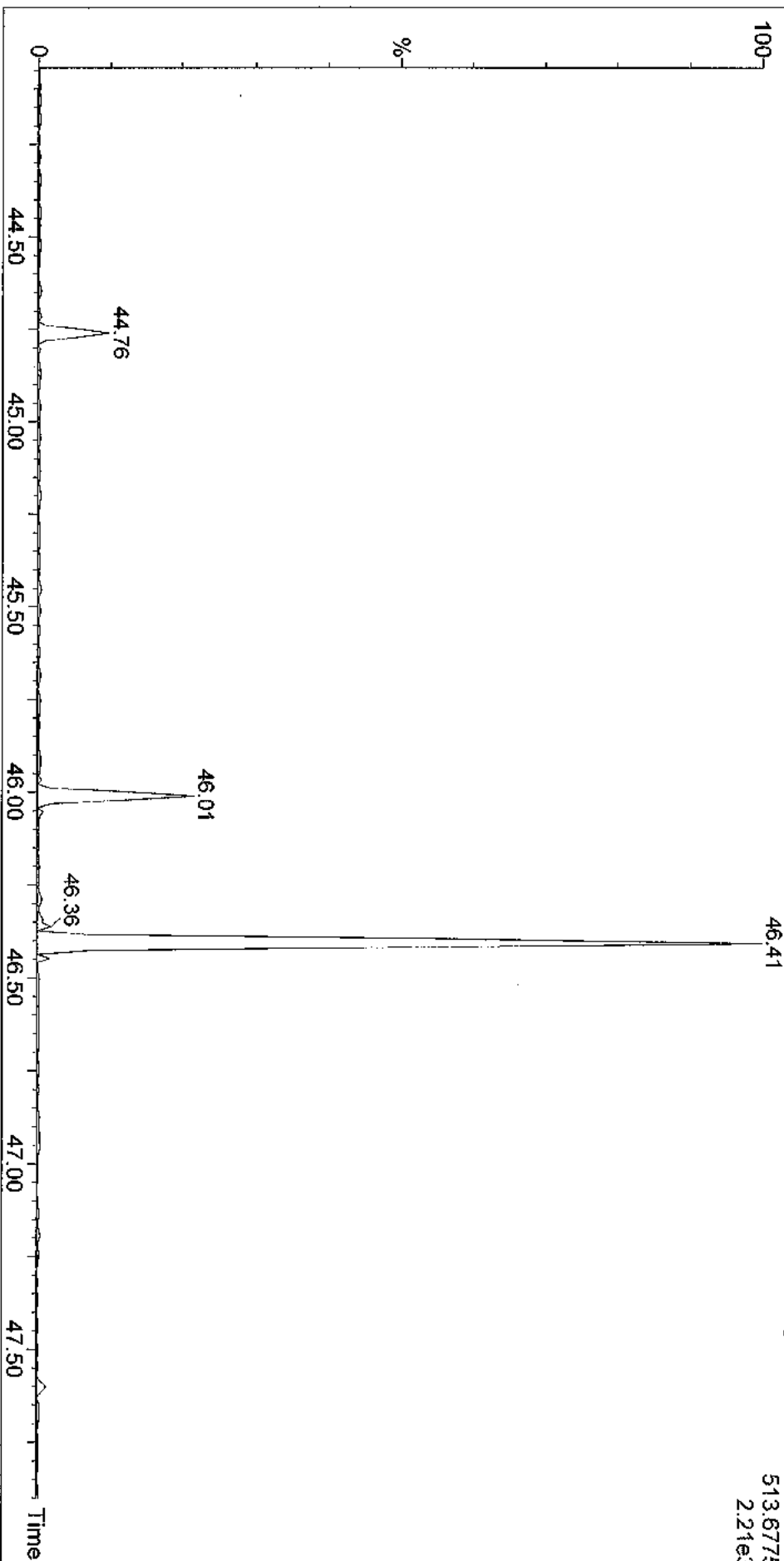
52: Deca DPE

MATSPK%, REZ818
HR20211124,1613-S
 M3211209A03 Sm (SG, 2X2)

AutoSpec Ultima - M536

09-Dec-2021
 09:22:31

5: Voltage SIR 8 Channels EI+
 513.6775
 2.21e3



Quantify Sample Report

Sample list: C:\MASSWIN\Default.pro\SAFLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSWIN\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A03
 Text: MATSPK%, REZ818

53: Function 5 LockMass

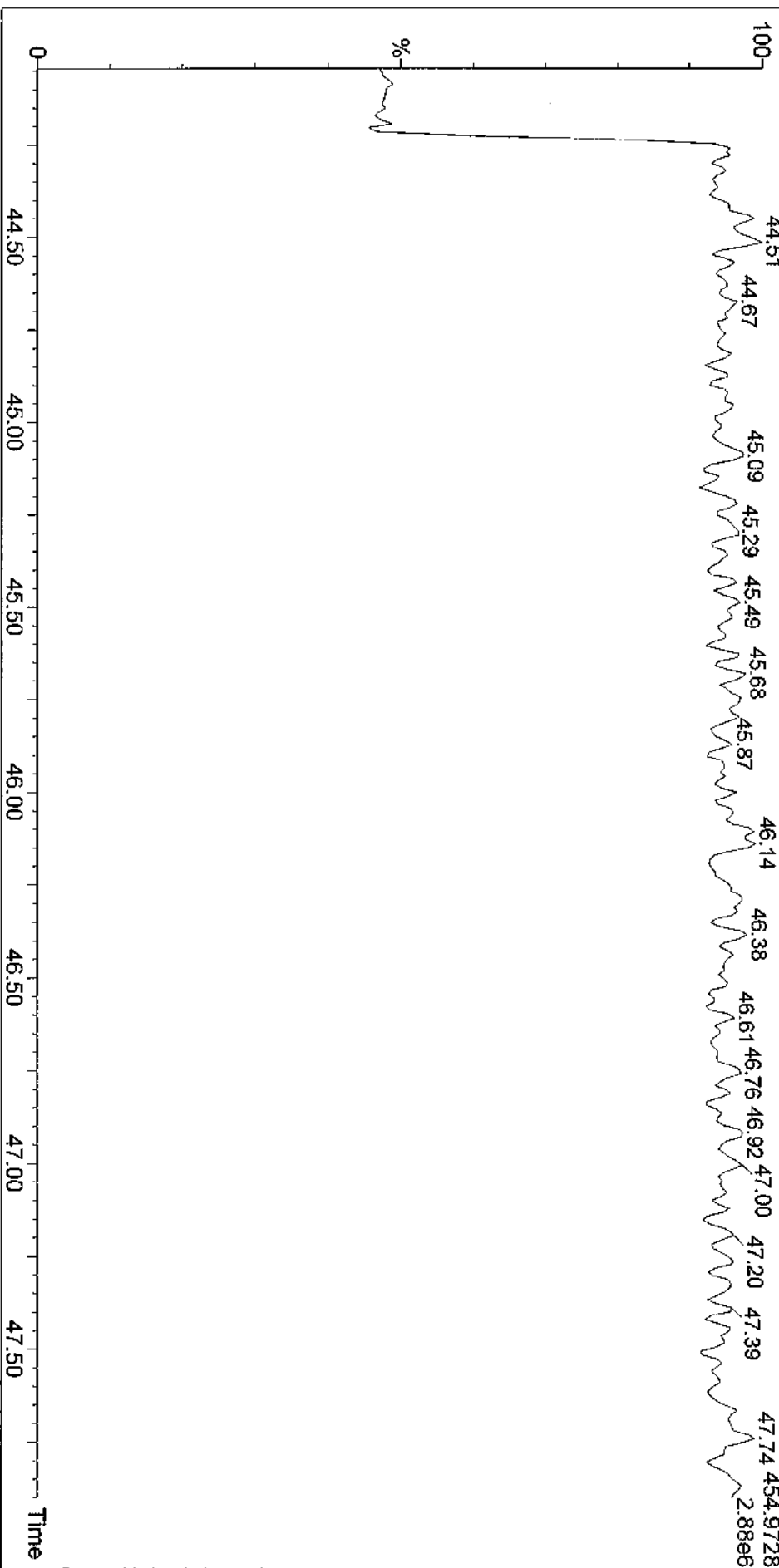
MATSPK%, REZ818
HR20211124,1613-S

M3211209A03 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
09:22:31

5: Voltage SIF 8 Channels EI+



File# M3211209A04
 Sample
 Acq# 12/09/2021 10:13
 Sam# MATSPK%ID1
 Com MATSPK%ID1
 Sam# 20.0067

Run
 Il File .1127A_1613_Spt
 HR20211124,1613-S, REZ118
 Hi Fac 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	Code	TEF	LOD(pg)	S/N	Mod.User	RRF Mean	%Rec
1	2,3,7,8-TCDF	304	24.56	106903	0.77	246530	21.69003	Rec = 108	2.169	1.06	-0.114869	481	0.97161	
		306	24.57	139627	yes						474			
2	1,2,3,7,8-PeCDF	340	31.88	685497	1.55	1127592	114.5893	Rec = 116	5.729	6.729468	-0.13117	1876	0.979466	
		342	31.93	442095	yes						1841			
3	2,3,4,7,8-PeCDF	340	33.56	876917	1.57	1437379	114.094	Rec = 114	57.047	5.704699	-0.117895	2965	1.089756	
		342	33.58	560463	yes						2958			
4	1,2,3,4,7,8-HxCDF	374	38.07	573692	1.28	1023100	113.1117	Rec = 113	11.311	5.685585	-0.120307	2076	1.159483	
		376	38.11	449408	yes						2024			
5	1,2,3,6,7,8-HxCDF	374	38.20	584834	1.26	1049075	113.5959	Rec = 114	11.360	5.679797	-0.127432	2106	1.094648	
		376	38.25	464241	yes						2096			
6	2,3,4,6,7,8-HxCDF	374	38.87	709040	1.32	1247799	97.88201	Rec = 90	9.788	4.8941	-0.123227	5911	1.176583	
		376	38.89	538752	yes						3105			
7	1,2,3,7,8,9-HxCDF	374	39.71	523496	1.19	962853	113.6773	Rec = 114	11.368	5.683068	-0.127123	1889	1.097314	
		376	39.70	439357	yes						1871			
8	1,2,3,4,6,7,8-HpCDF	408	41.43	425852	1.04	835400	107.7144	Rec = 108	1.077	5.385721	-0.119142	2524	1.208367	
		410	41.43	409547	yes						2511			
9	1,2,3,4,7,8,9-HpCDF	408	42.73	384124	1.02	760530	103.1078	Rec = 103	1.031	5.165368	-0.122316	2105	1.177018	
		410	42.71	376406	yes						2105			
10	OCDF	442	45.42	463071	0.93	963461	271.0661	Rec = 136	0.271	13.6533	-0.126418	6067	1.239902	
		444	45.41	500390	yes						5852			
11	2,3,7,8-TCDD	320	25.63	70550	0.81	157705	19.25495	Rec = 96	19.255	0.962747	-0.144761	345	1.240957	
		322	25.73	87154	yes						331			
12	1,2,3,7,8-PeCDD	356	34.29	461395	1.67	737866	103.1664	Rec = 103	51.583	5.168322	-0.168466	1577	1.116262	
		358	34.31	276471	yes						1498			
13	1,2,3,4,7,8-HxCDD	390	39.06	386459	1.27	689519	108.6828	Rec = 108	10.868	5.43414	-0.154393	1854	1.111453	
		392	39.05	303060	yes						1785			
14	1,2,3,6,7,8-HxCDD	390	39.16	419146	1.27	749511	107.606	Rec = 100	10.761	5.380298	-0.159263	1880	1.119648	
		392	39.17	380365	yes						1815			
15	1,2,3,7,8,9-HxCDD	390	39.50	412316	1.35	718267	108.3334	Rec = 108	10.833	5.416888	-0.153575	1765	1.107723	
		392	39.50	305951	yes						1671			
16	1,2,3,4,6,7,8-HpCDD	424	42.38	261306	1.06	507262	105.8811	Rec = 106	1.059	5.294056	-0.123947	2120	1.084762	
		426	42.36	245956	yes						2124			
17	OCDD	458	45.32	328098	0.93	680698	225.1804	Rec = 113	0.225	11.25902	-0.143809	4033	1.054514	
		460	45.29	352600	yes						3946			
18	13C-2,3,7,8-TCDF	316	24.54	1045082	0.81	2338850	1121.76			0.773	3574	2.144584	56	
		318	24.57	1293767	yes						5703			
19	13C-1,2,3,7,8-PeCDF	352	31.85	1233824	1.59	2008643	1308.811			1.688	2067	1.577374	65	
		354	31.89	774819	yes						1396			
20	13C-2,3,4,7,8-PeCDF	352	33.54	1432374	1.63	2811389	1549.461			1.736	2724	1.534347	77	
		354	33.57	878965	yes						1764			
21	13C-1,2,3,4,7,8-HxCDF	384	38.06	535021	0.52	1559662	1167.156			2.454	997	1.332773	58	
		386	38.09	1024642	yes						1862			
22	13C-1,2,3,6,7,8-HxCDF	384	38.18	546242	0.48	1686761	1172.272			2.279	1035	1.435092	59	
		386	38.20	1140519	yes						1967			
23	13C-2,3,4,6,7,8-HxCDF	384	38.86	738181	0.52	2166215	1614.263			2.443	1487	1.338387	81	
		386	38.87	1428034	yes						2770			
24	13C-1,2,3,7,8,9-HxCDF	384	39.69	531215	0.52	1543262	1230.341			2.614	1016	1.251033	62	
		386	39.69	1012047	yes						1848			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.42	396143	0.45	1283235	1010.637			1.995	1105	1.266359	51	
		420	41.41	887093	yes						2239			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.71	405472	0.48	1252930	1175.275			2.376	986	1.063266	59	
		420	42.71	847457	yes						2027			
27	13C-2,3,7,8-TCDD	332	25.60	599774	0.83	1319561	1171.039			1.037	3536	1.159041	59	
		334	25.70	719787	yes						3032			
28	13C-1,2,3,7,8-PeCDD	368	34.26	812651	1.74	1281025	1603.868			1.284	5769	0.821541	80	
		370	34.29	468375	yes						2343			
29	13C-1,2,3,4,7,8-HxCDD	402	39.05	649608	1.32	1141245	1249.654			3.803	834	0.910836	62	
		404	39.06	491637	yes						1651			
30	13C-1,2,3,6,7,8-HxCDD	402	39.15	705119	1.31	1243784	1303.393			3.64	825	0.951752	65	
		404	39.15	538665	yes						1706			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.36	443169	1.01	883006	935.361			1.95	1405	0.941539	47	
		438	42.36	439837	yes						1823			
32	13C-OCDD	470	45.29	548302	0.92	1146268	1515.071			0.922	5599	0.754524	33	
		472	45.29	597965	yes						3264			
33	13C-1,2,3,4-TCDD	332	25.31	876863	0.82	1944417	41.949			0.025	5471	46352.42	2	
		334	25.34	1067554	yes						4704			
34	13C-1,2,3,7,8,9-HxCDD	402	39.49	1104976	1.23	2005283	37.722			0.065	1317	53159.29	2	
		404	39.49	900307	yes						2704			
35	13C-2,3,7,8-TCDD	328	25.61	161406	1	322811	131.871			0.228	1674	2.517916	66	
		328	25.62	161406	yes						1674			
36	Totals Tetra-Furans	304	-	0	-	0	21.69003		1	-0.114869	-	0.97161	-	
		306	26.00	0	-						-			
37	Totals Tetra-Dioxins	320	-	0	-	0	19.25495		1	-0.144761	-	1.240957	-	
		322	26.00	0	-						-			
38	Totals Penta-Furans	340	-	0	-	0	228.6833		2	-0.124179	-	1.034611	-	

		342	34.00	0	-				-		
39	Totals Penta-Dioxins	356	-	0	-	0	103.1664	1	-0.168466	-	1.116262
		358	34.00	0	-				-		
40	Totals Hexa-Furans	374	-	0	-	0	438.267	4	-0.123227	-	1.132007
		376	39.50	0	-				-		
41	Totals Hexa-Dioxins	390	-	0	-	0	524.6221	3	-0.154847	-	1.108192
		392	39.50	0	-				-		
42	Totals Hepta-Furans	408	-	0	-	0	210.8222	2	-0.120708	-	1.192692
		410	42.50	0	-				-		
43	Totals Hepta-Dioxins	424	-	0	-	0	105.8811	1	-0.123947	-	1.084762
		426	42.50	0	-				-		

Totals Compound 36: Totals Tetra-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
36	Totals Tetra-Furans	304	23.28	464	0.46	1476	0.129856	3		0.97161	-
		306	26.00	1012	no			5			
36	Totals Tetra-Furans	304	23.58	963	0.76	2132	0.196434	5		0.97161	-
		306	26.00	1269	no			5			
36	Totals Tetra-Furans	304	24.01	881	0.79	1991	0.175141	4		0.97161	-
		306	26.00	1110	no			3			
1	2,3,7,8-TCDF	304	24.56	106908	0.77	246530	21.69003	481		0.97161	108
		306	24.57	139627	yes			474			

Totals Compound 37: Totals Tetra-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
37	Totals Tetra-Dioxins	320	25.47	1561	1.03	3069	0.374674	9		1.240957	-
		322	26.00	1508	no			6			
11	2,3,7,8-TCDD	320	25.63	70550	0.81	157705	19.25495	345		1.240957	96
		322	25.73	87154	yes			331			

Totals Compound 38: Totals Penta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
38	Totals Penta-Furans	340	29.94	4056	2.49	5681	0.511733	12		1.034611	-
		342	34.00	1626	no			10			
38	Totals Penta-Furans	340	31.10	632	0.52	1849	0.166554	2		1.034611	-
		342	34.00	1217	no			6			
2	1,2,3,7,8-PeCDF	340	31.88	685497	1.55	1127592	114.5893	1876		0.979466	115
		342	31.93	442095	yes			1841			
38	Totals Penta-Furans	340	32.59	14727	1.33	25794	2.323469	43		1.034611	-
		342	34.00	11068	no			53			
3	2,3,4,7,8-PeCDF	340	33.56	876917	1.57	1437379	114.094	2965		1.089756	114
		342	33.58	560463	yes			2958			
38	Totals Penta-Furans	340	35.24	4418	1.59	7202	0.648741	21		1.034611	-
		342	34.00	2784	no			21			

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
12	1,2,3,7,8-PeCDD	356	34.29	461395	1.67	737866	103.1664	1577		1.116262	103
		358	34.31	276471	yes			1498			

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
40	Totals Hexa-Furans	374	36.92	1034	1.14	1938	0.196256	4		1.132007	-
		376	39.50	904	no			5			
4	1,2,3,4,7,8-HxCDF	374	38.07	573692	1.28	1023100	113.1117	2076		1.159483	113
		376	38.11	449408	yes			2024			
5	1,2,3,6,7,8-HxCDF	374	38.20	584834	1.26	1049075	113.5959	2106		1.094648	114
		376	38.25	464241	yes			2096			
40	Totals Hexa-Furans	374	38.54	346	1.01	688	0.069672	1		1.132007	-
		376	39.50	342	no			2			
6	2,3,4,6,7,8-HxCDF	374	38.87	709040	1.32	1247793	97.88201	2680		1.176583	98
		376	38.89	538752	yes			2670			
7	1,2,3,7,8,9-HxCDF	374	39.71	523496	1.19	962853	113.6773	1889		1.097314	114
		376	39.70	439357	yes			1871			
40	Totals Hexa-Furans	374	40.01	783	0.24	4046	0.409727	3		1.132007	-
		376	39.50	3263	no			15			

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.48	1168	1.07	2263	0.344147	6		1.108192	-
		392	39.50	1095	no			6			
41	Totals Hexa-Dioxins	390	38.39	576	1.49	962	0.146297	2		1.108192	-
		392	39.50	386	no			2			
13	1,2,3,4,7,8-HxCDD	390	39.06	386459	1.27	689519	108.6828	1854		1.111453	109
		392	39.05	303060	yes			1785			
14	1,2,3,6,7,8-HxCDD	390	39.16	419146	1.27	749511	107.606	1830		1.119648	108
		392	39.17	330365	yes			1815			
15	1,2,3,7,8,9-HxCDD	390	39.50	412316	1.35	718267	108.3334	1765		1.093474	106

		392	99.50	305951	yes			1671		
41	Totals Hexa-Dioxins	390	40.02	785	1.65	1262	0.19192	3	1.108192	-
		392	39.50	477	no			3		
Totals Compound 42: Totals Hepta-Furans										
#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean %Rec
8	1,2,3,4,6,7,8-HpCDF	408	41.43	425852	1.04	835400	107.7144	2524		1.208367 108
		410	41.43	409547	yes			2511		
42	Totals Hepta-Furans	408	41.80	1339	1.09	2565	0.395843	10		1.192692 -
		410	42.50	1227	no			9		
9	1,2,3,4,7,8,9-HpCDF	408	42.73	384124	1.02	760530	103.1078	2105		1.177018 103
		410	42.71	375406	yes			2105		
Totals Compound 43: Totals Hepta-Dioxins										
#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean %Rec
43	Totals Hepta-Dioxins	424	41.75	4581	1.03	9043	1.576237	39		1.084762 -
		426	42.50	4462	no			39		
16	1,2,3,4,6,7,8-HpCDD	424	42.38	261306	1.06	507262	105.8811	2120		1.084762 106
		426	42.36	245956	yes			2124		
43	Totals Hepta-Dioxins	424	42.71	355	0.73	841	0.174676	3		1.084762 -
		426	42.50	487	no			4		

Quantity Sample Report

Sample list: C:\MSSTYX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-S

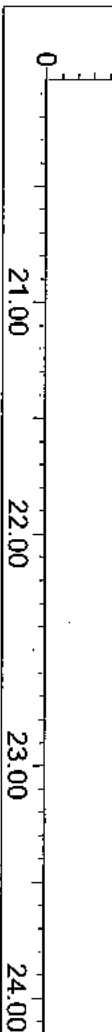
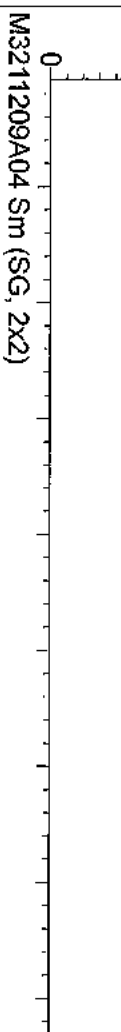
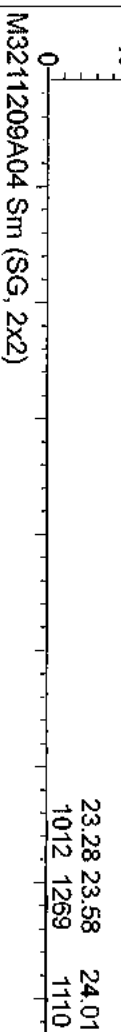
36: Totals Tetra-Furans

AutoSpec Ultima - M536

HR20211124, DF1613-S
 MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

09-Dec-2021
 10:13:52
 1: Voltage SIR 11 Channels EI+
 303.9016
 1.36e6
 Area



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR2021124, DF1613-S

37: Totals Tetra-Dioxins

AutoSpec Ultima - M536

HR2021124, DF1613-S
 MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

2.36e3

1

09-Dec-2021
 10:13:52
 1: Voltage SIR 11 Channels EI+
 319.8965
 8.16e5
 Area

5.20e2

M3211209A04 Sm (SG, 2x2)

25.62
 87154
 1.02e6
 Area

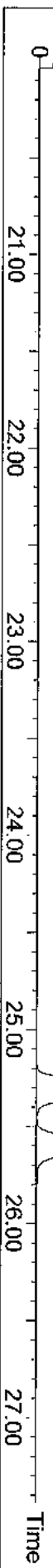
6.75e2

M3211209A04 Sm (SG, 2x2)

25.31
 331.9368
 1.04e7
 1: Voltage SIR 11 Channels EI+

M3211209A04 Sm (SG, 2x2)

25.31
 333.9339
 1.28e7
 1: Voltage SIR 11 Channels EI+



Quantify Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-S

35: C137-2,3,7,8-TCDD

HR20211124, DF1613-S

MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

10:13:52

1: Voltage S1R 11 Channels EI+

327.8850

1.85e6

Area

25.61
161406

M3211209A04 Sm (SG, 2x2)

1: Voltage S1R 11 Channels EI+

327.8850

1.85e6

Area

25.61
161406

M3211209A04 Sm (SG, 2x2)

1: Voltage S1R 11 Channels EI+

331.9368

1.04e7

Area

25.31
876863

M3211209A04 Sm (SG, 2x2)

1: Voltage S1R 11 Channels EI+

333.9339

1.28e7

Area

25.31
1067554

24.00 24.50 25.00 25.50 26.00 26.50 27.00 27.50 Time

Quantity Sample Report

Sample List: C:\MASSLTX\Default-pro\SAMPLEDB\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLTX\Default-pro\METHOD\M321127A_HC_1613
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 Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-S

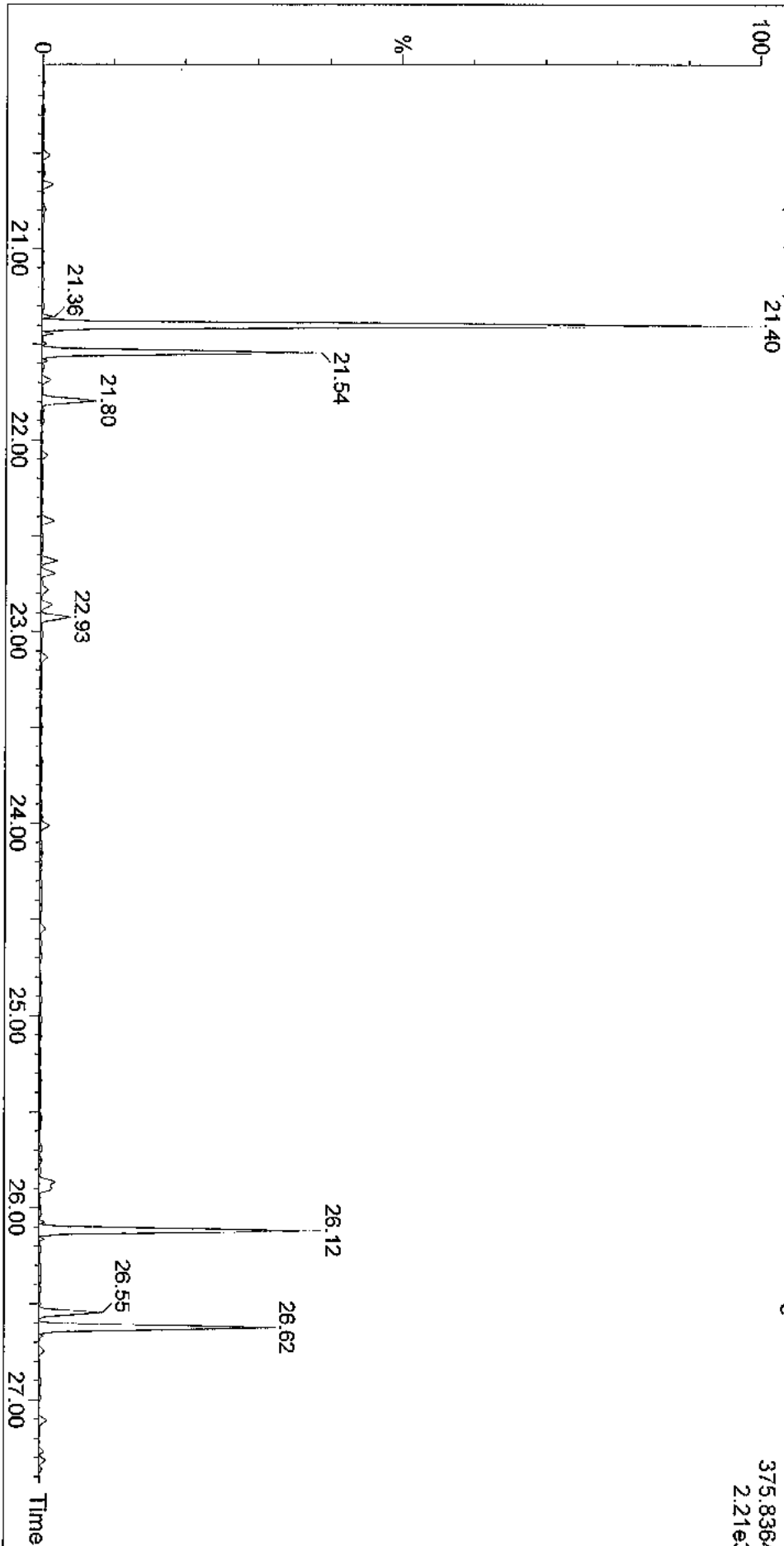
38: Hexa DB

HR20211124, DF1613-S
 MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 10:13:52
 1: Voltage SIR 11 Channels EI+
 375.8364
 2.21e3



Quantity Sample Report

Sample Id: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-S

39: Function 1 Lockmass

HR20211124, DF1613-S
 MATSPK%.D1, REZ818

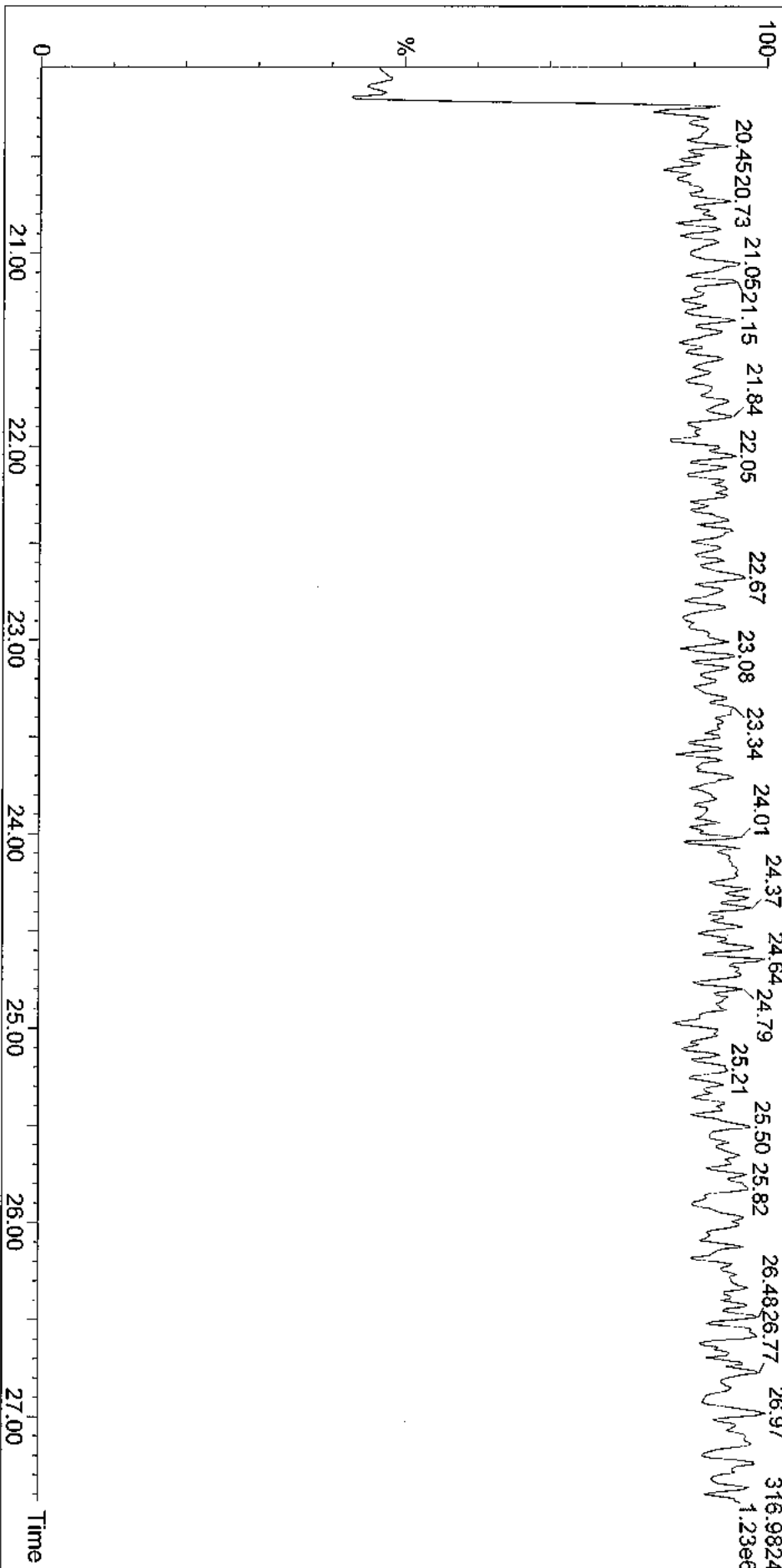
M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 10:13:52

1: Voltage SIR 11 Channels EI+

26.4826.77 26.97 316.9824
 1.23e6



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR2021124, DF1613-S

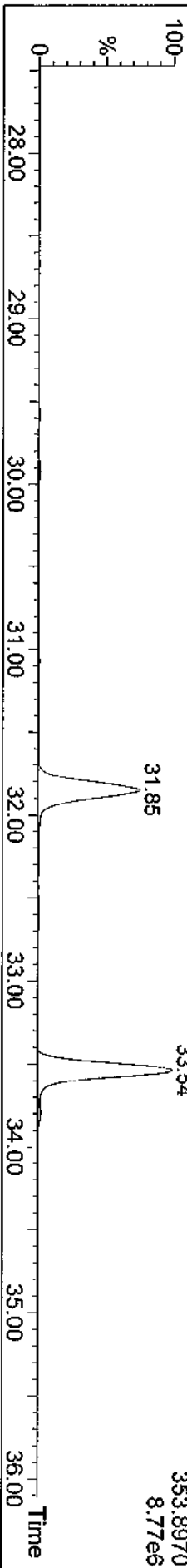
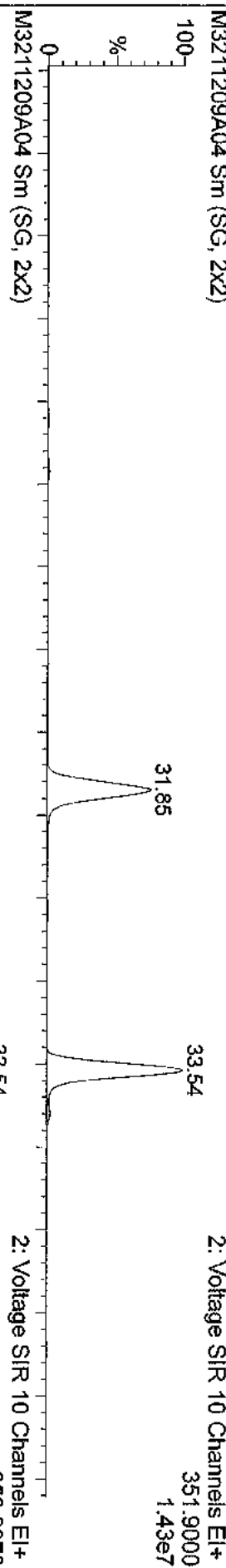
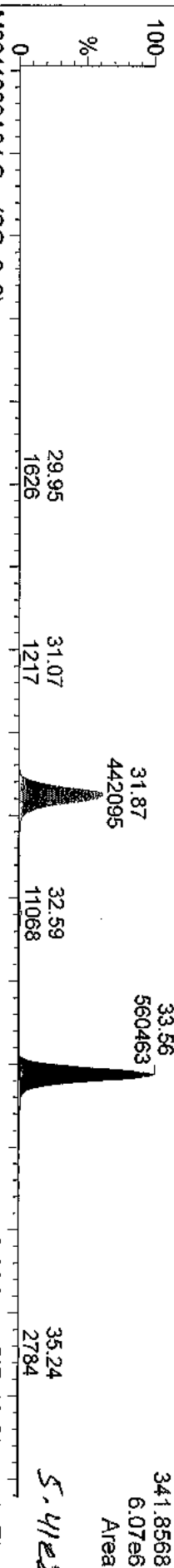
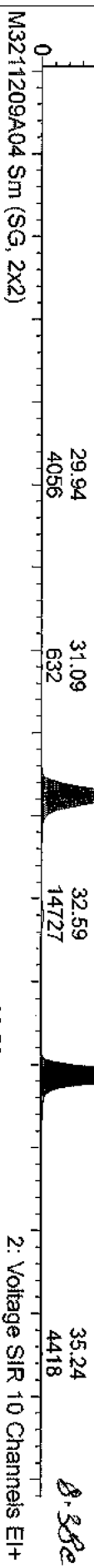
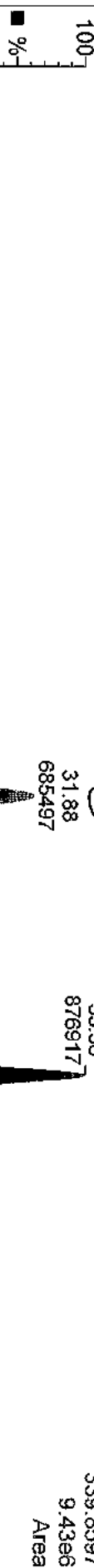
40: Totals Penta-Furans

AutoSpec Ultima - M536

HR2021124, DF1613-S
 MATSPK%:D1, REZ818

09-Dec-2021
 10:13:52

M3211209A04 Sm (SG, 2x2)



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-S

41: Totale Penta-Dioxins

AutoSpec Ultima - M536

HR20211124, DF1613-S
 MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

3.37e3

09-Dec-2021
 10:13:52

34.29
 461395
 2: Voltage SIR 10 Channels EI+
 355.8546
 5.32e6
 Area

7.31e2

34.29
 276471
 2: Voltage SIR 10 Channels EI+
 357.8517
 3.27e6
 Area

4.71e2

34.26
 2: Voltage SIR 10 Channels EI+
 367.8949
 9.37e6

34.26
 2: Voltage SIR 10 Channels EI+
 369.8919
 5.73e6

Time

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-S

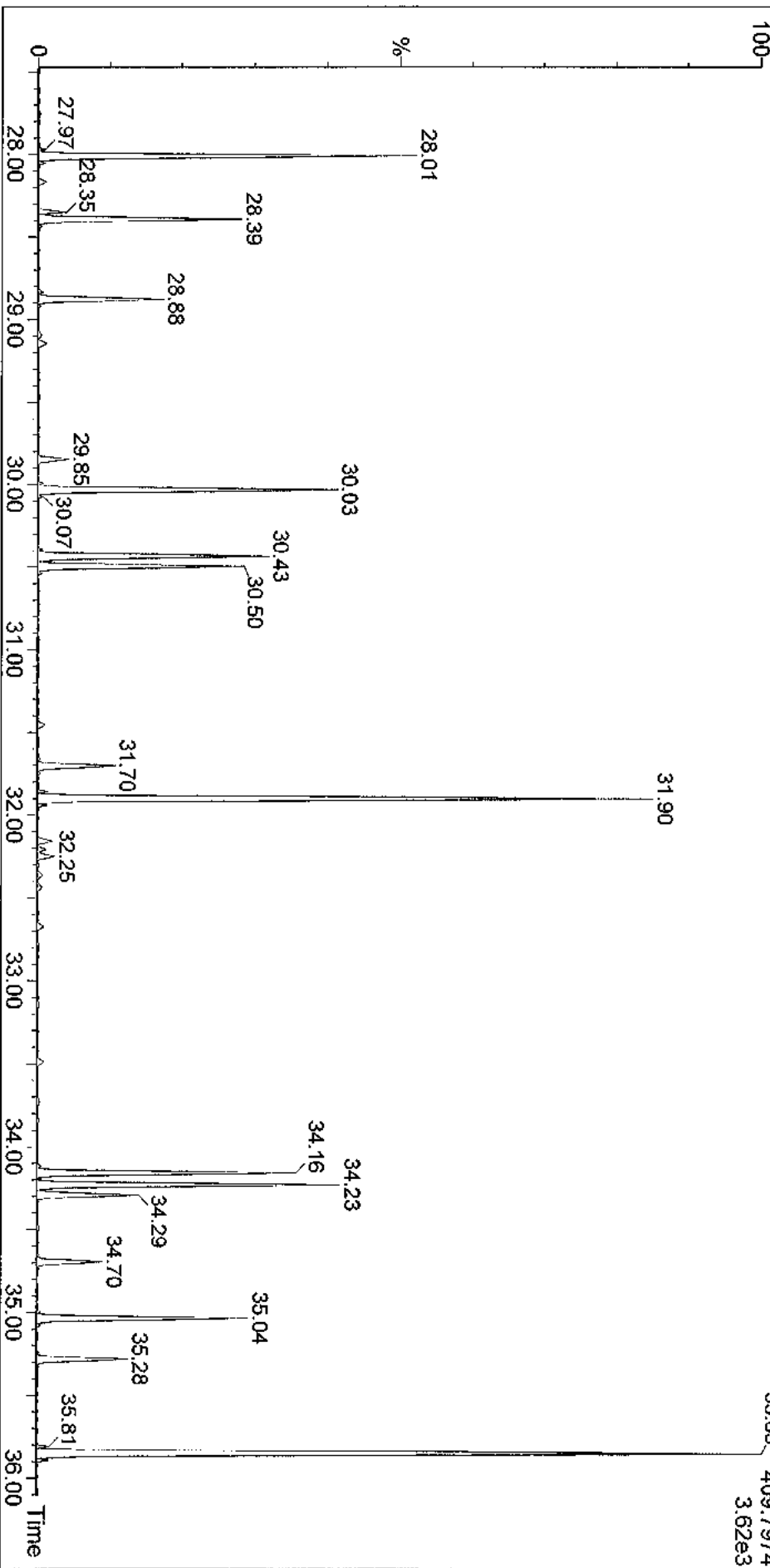
42: Hepta DPE

HR20211124, DF1613-S
 MATSPK%:D1, REZ818
 M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 10:13:52

2: Voltage SIR 10 Channels EI+
 35.85 409.7974
 3.62e3



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR2021124, DF1613-S

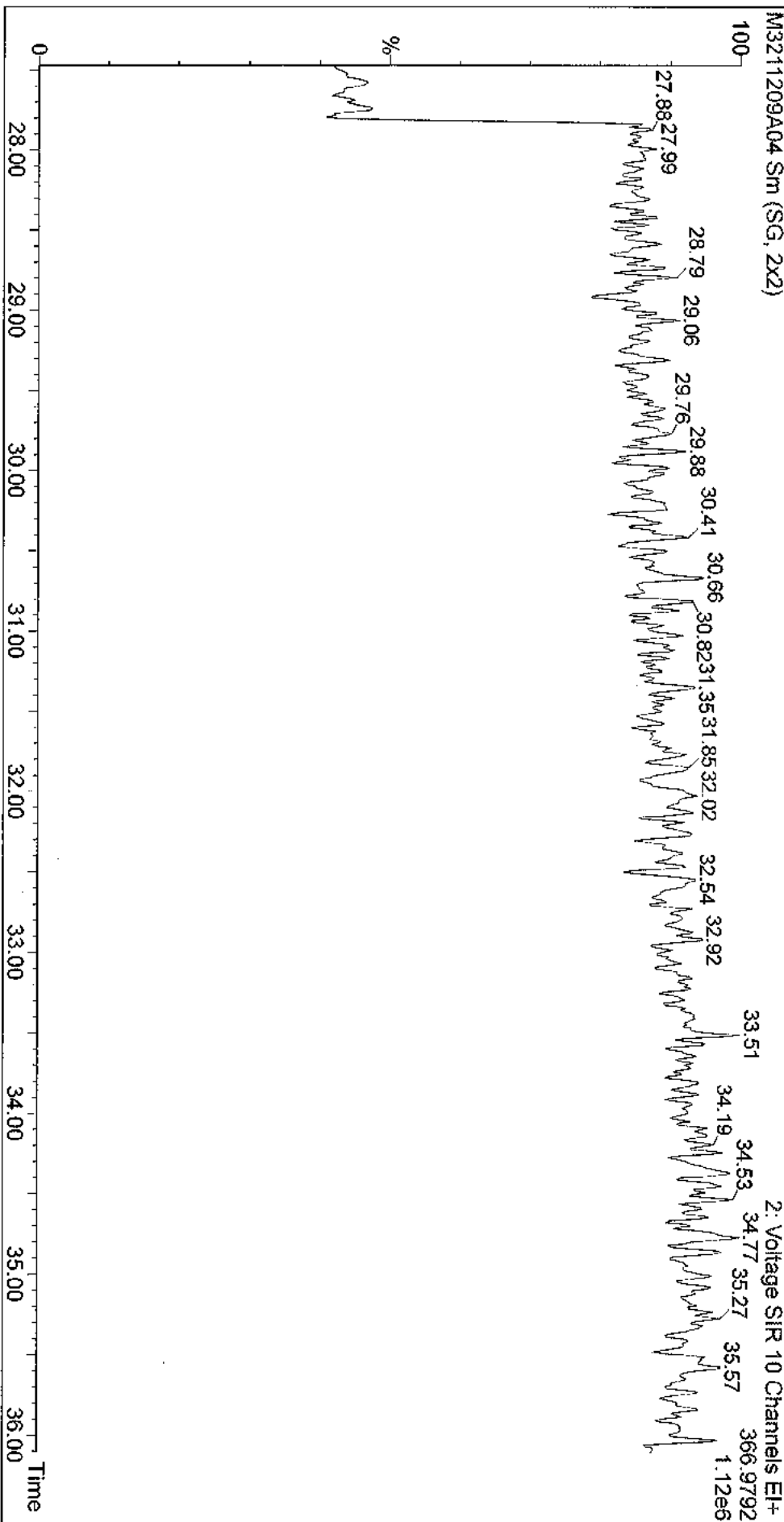
43: Function 2 Lockmass

HR2021124, DF1613-S
 MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 10:13:52



Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211209A_1613
 Last Modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M321127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR2021124, DF1613-S

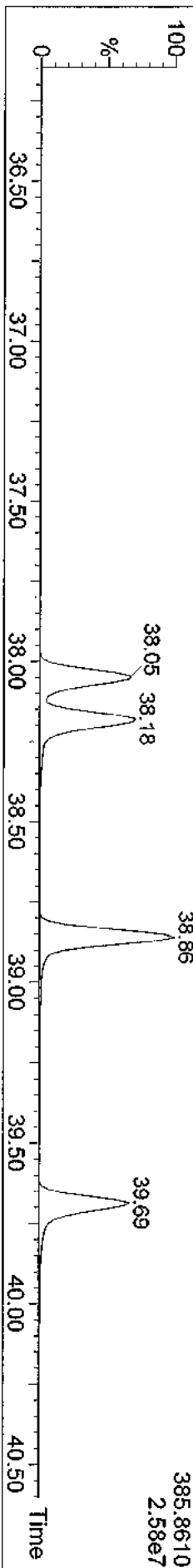
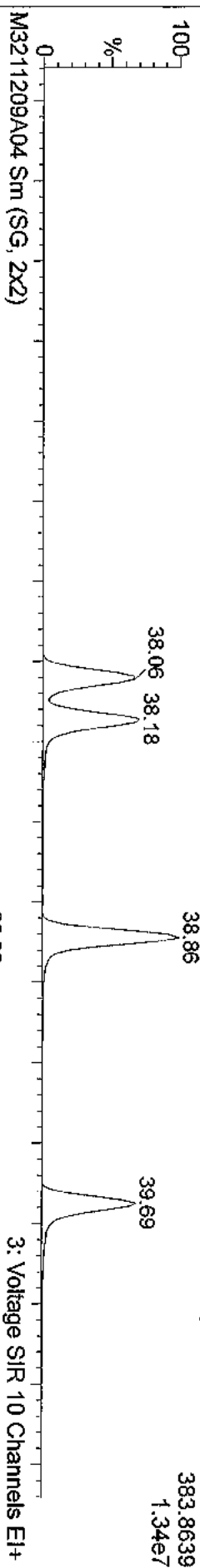
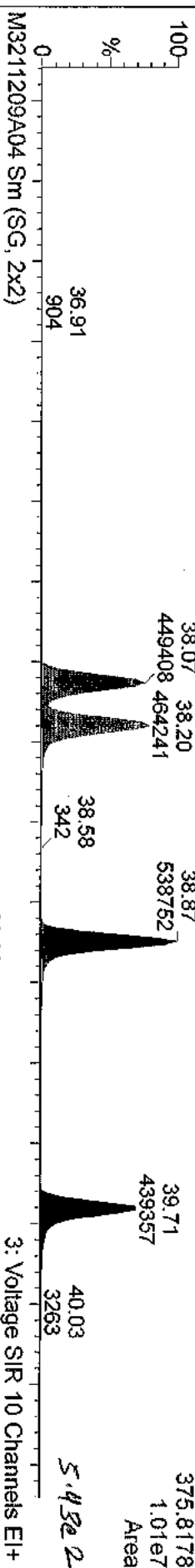
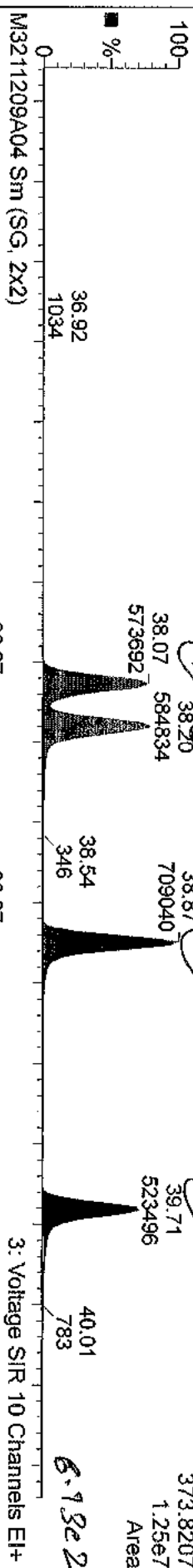
44: Totals Hexa-Purane

AutoSpec Ultima - M536

09-Dec-2021

HR2021124, DF1613-S
 MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

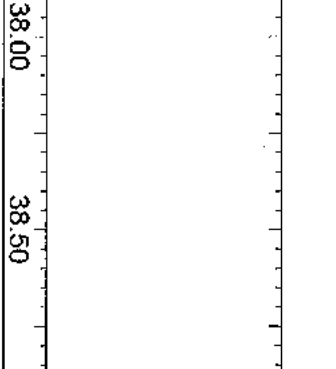
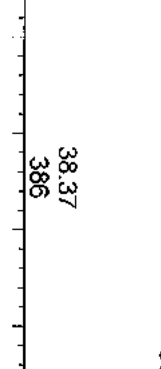
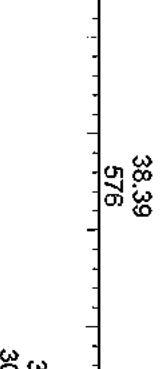


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1

09-Dec-2021
10:13:52

Channels El+



Quantity Sample Report

Sample List: C:\MSSTXN\Default-pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSSTXN\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-S

46: Octa DBR

AutoSpec Ultima - M536

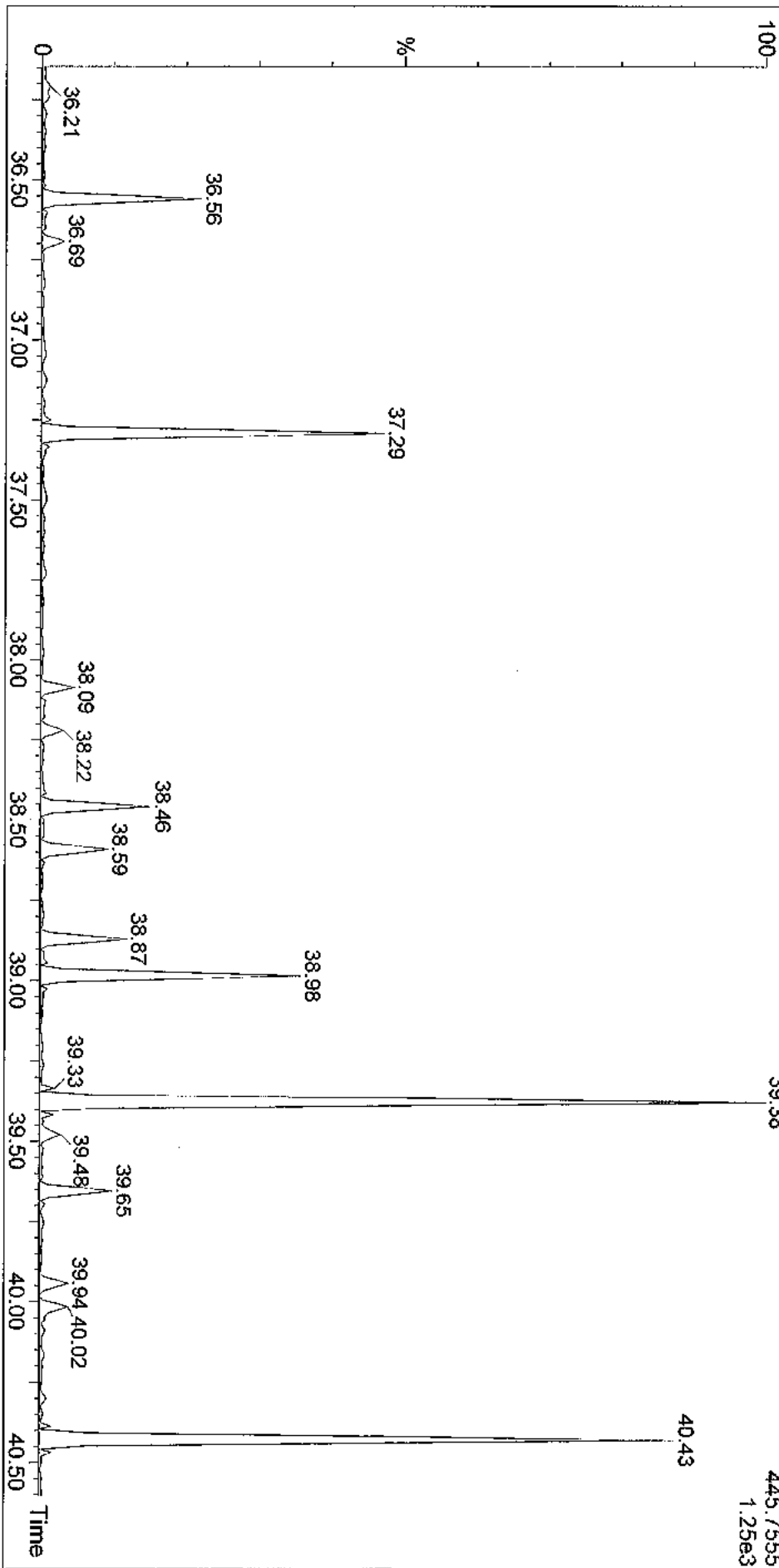
HR20211124, DF1613-S
 MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2X2)

09-Dec-2021
 10:13:52

3: Voltage SIR 10 Channels EI+

445.7555
 1.25e3



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR2021124, DF1613-S

47: Function 3 Lockmass

HR2021124, DF1613-S
 MATSPK%:D1, REZ818

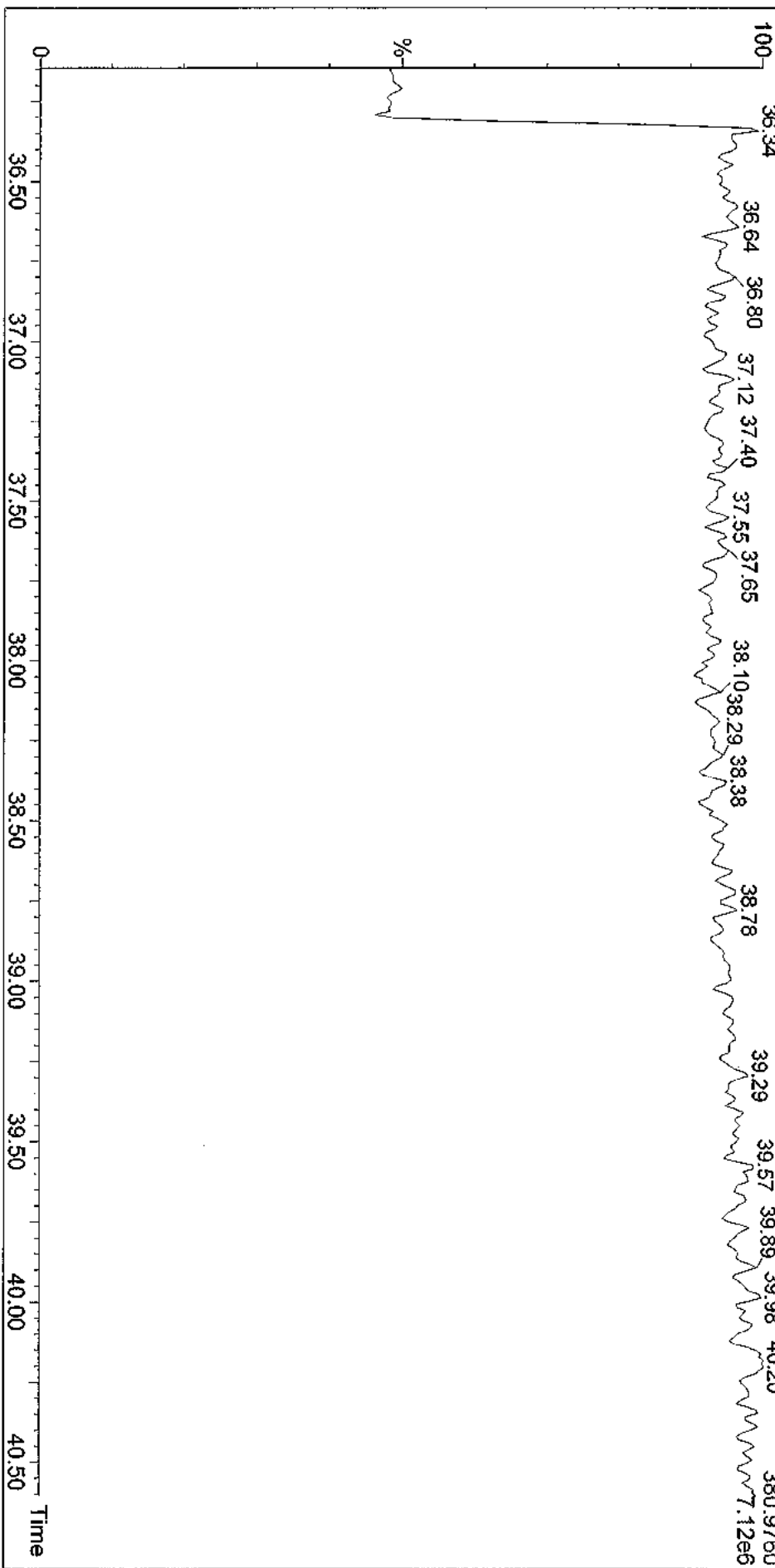
M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021
 10:13:52

3: Voltage SIR 10 Channels EI+

380.9760
 7.12e6



Quantify Sample Report

Sample List: C:\MASSLYNK\Default.pro\SAMPLES\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNK\Default.pro\METHODS\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR2021124, DF1613-S

48: Totals Hepta-Furans

AutoSpec Ultima - M536

HR2021124, DF1613-S
 MATSPK%:D1, REZ818

09-Dec-2021
 10:13:52

M3211209A04 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209A04 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209A04 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209A04 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



Time
 40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00

Quantify Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-8

49: Totals Hepta-Dioxins

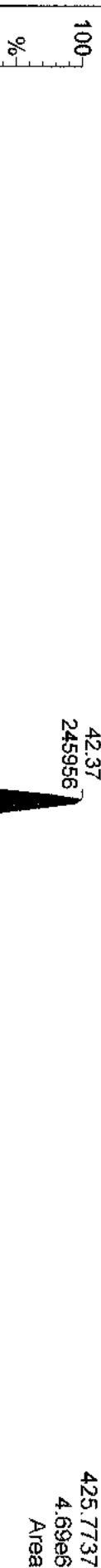
AutoSpec Ultima - M536

HR20211124, DF1613-S
 MATSPK%:D1, REZ818

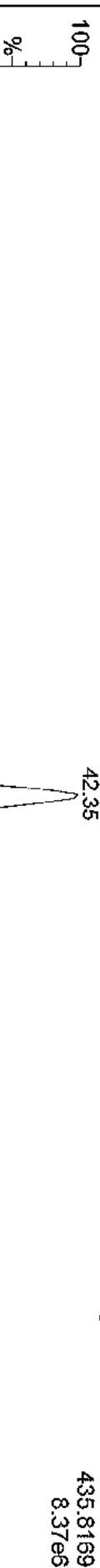
M3211209A04 Sm (SG, 2X2)



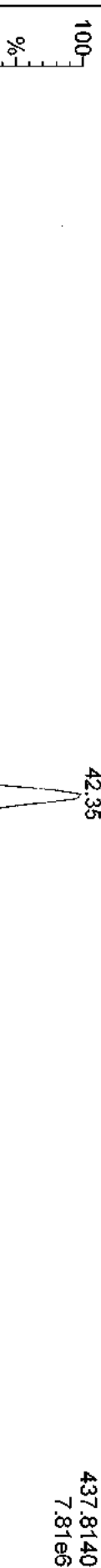
M3211209A04 Sm (SG, 2X2)



M3211209A04 Sm (SG, 2X2)



M3211209A04 Sm (SG, 2X2)



09-Dec-2021
 10:13:52

4: Voltage SIR 10 Channels EI+

423.7767
 4.88e6
 Area

3.04e2

4: Voltage SIR 10 Channels EI+

425.7737
 4.69e6
 Area

2.92e2

4: Voltage SIR 10 Channels EI+

435.8169
 8.37e6

4: Voltage SIR 10 Channels EI+

437.8140
 7.81e6

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMPLRMD\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR2021124, DF1613-S

50: Nona D2E

HR2021124, DF1613-S
 MATSPK%.D1, REZ818

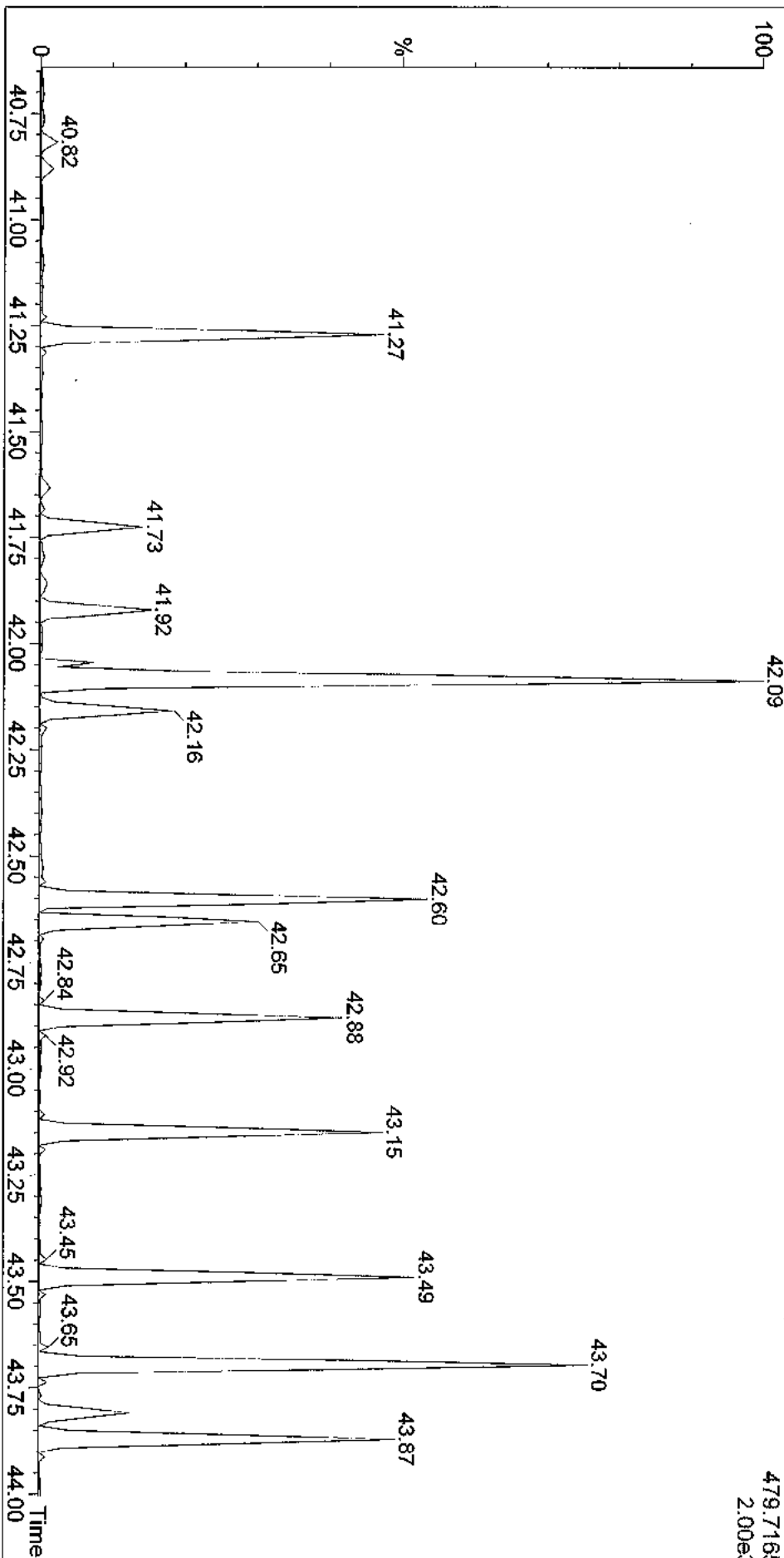
M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

10:13:52

4: Voltage SIR 10 Channels EI+
 479.7165
 2.00e3



Quantity Sample Report

Sample List: C:\MASS\YUNK\Default.pro\SAME\FEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASS\YUNK\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DP1613-S

SI: Function 4 Lockmass

HR20211124, DF1613-S
 MATSPK%:D1, REZ818

AutoSpec Ultima - M536

09-Dec-2021

10:13:52

M3211209A04 Sm (SG, 2X2)

4: Voltage SIF 10 Channels EI+

100 40.8440.88 41.07 41.44 41.56 41.86 42.58 42.68 42.93 43.32 43.59 43.77 430.9728 4.4766

40.67

40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

Quantity Sample Report

Sample List: C:\MSDCHEM\Default-Pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MSDCHEM\Default-Pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-S

10: ODDP

HR20211124, DF1613-S

MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

10:13:52

5: Voltage SIR 8 Channels EI+

441.7428

7.04e6

Area

1.16e3

45.42

463071

%

2.13e2

M3211209A04 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

443.7398

7.61e6

Area

45.42

500390

%

2.38e2

M3211209A04 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

469.7780

7.48e6

Area

45.29

548302

%

M3211209A04 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

471.7750

8.29e6

Area

45.29

597965

%

44.50 45.00 45.50 46.00 46.50 47.00 47.50 Time

Quantity Sample Report

Sample List: C:\MASSLUNX\Default.pro\SAWFILEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLUNX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-8

17: OCPD

HR20211124, DF1613-S

MATSPK%:D1, REZ818

M3211209A04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

10:13:52

5: Voltage S/R 8 Channels EI+

457.7377
 4.52e6
 Area

45.32
 328098

2.05e2

M3211209A04 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

459.7348
 4.97e6
 Area

45.30
 352600

2.31e2

M3211209A04 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

469.7780
 7.48e6
 Area

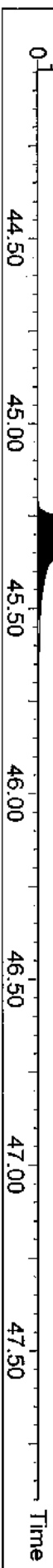
45.29
 548302

M3211209A04 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

471.7750
 8.29e6
 Area

45.29
 597965



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How to Use This Manual

AutoSpec Ultima - M536

AutoSpec Ultima - M536

45.90

09-Dec-2021 10:13:52
5: Voltage S1R 8 Channels El+ 47.76 513.6775 1.48e3

Dec-2021
10:13:52
nnels El+
E43 677E

1.48e3

~~Bureau Veritas Laboratories~~

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209A_1613
 Last modified: Fri Dec 10 07:11:23 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Fri Dec 10 08:19:14 2021

Name: M3211209A04
 Text: HR20211124, DF1613-8

S3: Function 5 Lockmass

HR20211124, DF1613-S

MATSPK%.D1, REZ818

M3211209A04 Sm (SG, 2x2)

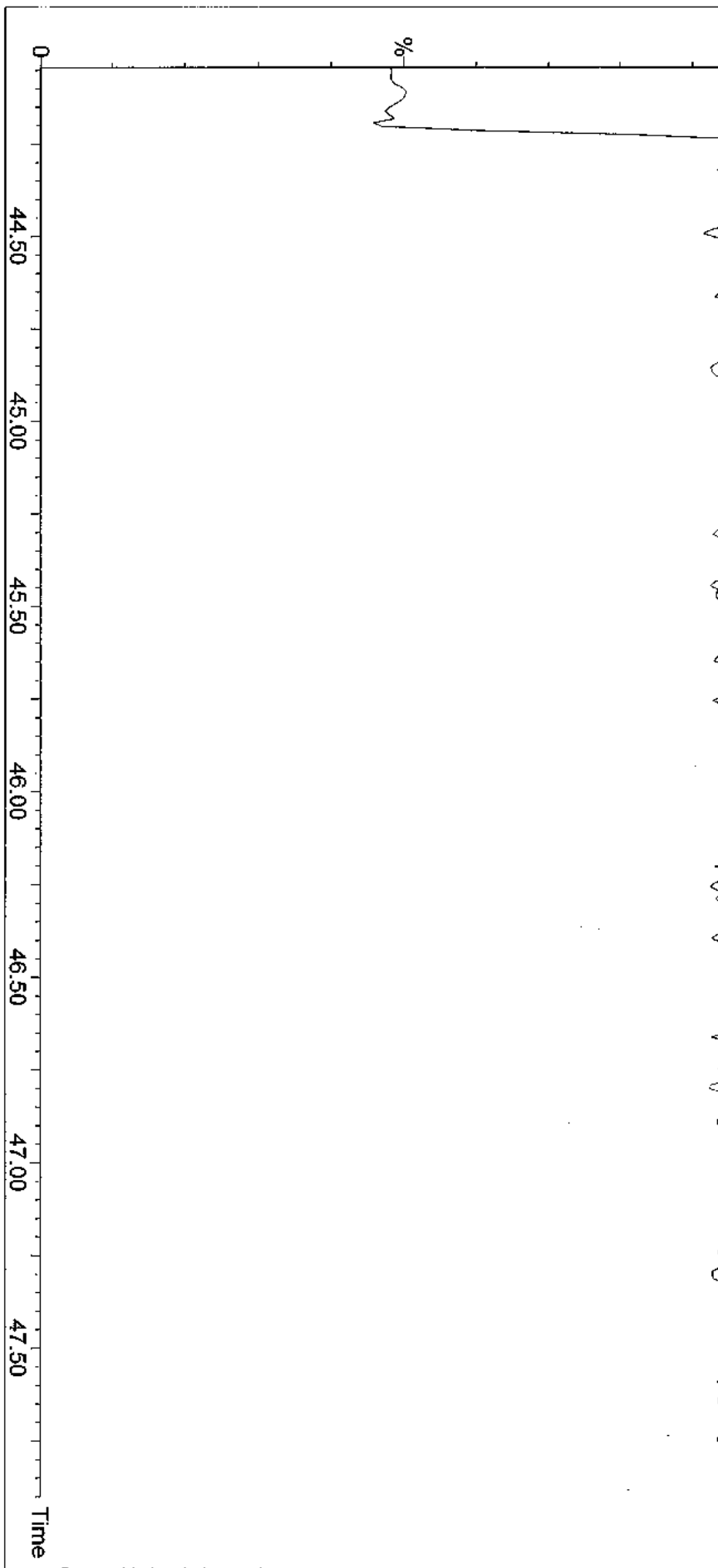
AutoSpec Ultima - M536

09-Dec-2021

10:13:52

5: Voltage SIF 8 Channels EI+

100 44.25 44.38 44.70 44.94 45.19 45.36 45.60 45.68 46.08 46.32 46.61 46.69 46.83 47.06 47.35 47.43 47.48 47.69 454.97 28
 2.80e6



M3211209B - 1613

Bottle	File Name	File Text	Sample ID	MS File
19	M3211209B01	db5_win_perf/CS3	Lot CS3WT1020	1613_ult3
4	M3211209B02	SOLVENT	SOLVENT	1613_ult3
5	M3211209B03	SOLVENT	SOLVENT	1613_ult3
1	M3211209B04	BLANK	WS# 7716247/7716238, S	1613_ult3
2	M3211209B05	QOD505-01R	7713859: PUBLIC_HHRA21-REF-UR, TI	1613_ult3
3	M3211209B06	QOD506-01R	7713859: PUBLIC_HHRA21-EH-RRC-, TI	1613_ult3
6	M3211209B07	QZV226-01R	7716247: OFFSITE# AII44*, S	1613_ult3
7	M3211209B08	QZV229-01R	7716247: OFFSITE# AII44*, S	1613_ult3
8	M3211209B09	QZV230-01R	7716247: OFFSITE# AII44*, S	1613_ult3
9	M3211209B10	QZV231-01R	7716247: OFFSITE# AII44*, S	1613_ult3
14	M3211209B11	REZ784-01R	7716247: APEX_PDI-CORE-29E-02*, S	1613_ult3
15	M3211209B12	REZ785-01R	7716247: APEX_PDI-CORE-129E-0*, S	1613_ult3
16	M3211209B13	REZ798-01R	7716247: APEX_PDI-CORE-01-A-07*, S	1613_ult3
17	M3211209B14	REZ799-01R	7716247: APEX_PDI-CORE-01-A-08*, S	1613_ult3
19	M3211209B15	db5_win_perf/CS3	Lot CS3WT1020	1613_ult3
18	M3211209B16	METHOD SPIKE	WS# 7716247/7716238, S	1613_ult3

SOL M3211129A - 1613



Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Thursday, December 9, 2021

Assigned to : Angel Guerrero

Test Code : DF1613-S

Instrument Id:

Test Description : To determine Dioxins and Furans by High Resolution Gas Spectrophotometer. (EPA 1613B)

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	MTRX SPK	0	1613P REZ818-01										2021/11/24
	MTRX SPK	1	1613P REZ818-01										2021/11/24
	SPIKE		1613P										2021/11/24
	BLANK												2021/11/24
C1U8090	QZV226-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
C1U8090	QZV229-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
C1U8090	QZV230-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
C1U8090	QZV231-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
C1X2301	REZ784-01R		PDI-CORE-29E-02-*						1	2021/12/08	2021/12/01 23:00		2021/11/24
C1X2301	REZ785-01R		PDI-CORE-129E-0*						1	2021/12/08	2021/12/01 23:00		2021/11/24
C1X2305	REZ798-01R		PDI-CORE-01-A-07*						1	2021/11/18	2021/12/01 23:00		2021/11/24
C1X2305	REZ799-01R		PDI-CORE-01-A-08*						1	2021/11/18	2021/12/01 23:00		2021/11/24
C1X2305	REZ800-01R		PDI-CORE-03-B-04*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2305	REZ801-01R		PDI-CORE-03-B-05*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2305	REZ812-01R		PDI-CORE-103-B-0*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2305	REZ817-01R		PDI-CORE-04-B-05*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2305	REZ818-01R		PDI-CORE-04-B-06*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2314	REZ849-01R		PDI-CORE-05B-05-*						1	2021/11/20	2021/12/01 23:00		2021/11/24
C1X2314	REZ850-01R		PDI-CORE-05B-06-*						1	2021/11/20	2021/12/01 23:00		2021/11/24
C1X2314	REZ851-01R		PDI-CORE-04A-05-*						1	2021/11/20	2021/12/01 23:00		2021/11/24
C1X2314	REZ852-01R		PDI-CORE-04A-06-*						1	2021/11/20	2021/12/01 23:00		2021/11/24

Remarks:

Samples extracted by:

Truc Vu

Instrumentation performed by:

RAK

Date:

21-12-09

Calculations performed by:

ECI

Date:

21-12-14

Validated by:

AGU

Date:

21-12-14

Job No.	Rep	Client Name	Contact	Client Tier	National
MC1U8090	CC4	Bureau Veritas Laboratories	Debbie Nordbruket	Tier 4 (Enviro.)	Bureau Veritas 134
		Offsite job C1U8090 was created on Thursday, October 21, 2021 in LimsEasternDb with offsite code ONTV Project #: VANENV job# C178934			
GC1X2301	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
		DF1613-s, level 4 data package needed Project #: A1K0374			
GC1X2305	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
		DF1613-s, level 4 data package needed Project #: A1J0786			
GC1X2314	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
		DF1613-s, level 4 data package needed Project #: A1J0851			

Surrogates/Spikes	Method Spike	Spikes	Samples

Sample	Preparation Remarks

Sample	Instrumentation Remarks

WS# : 7716238

Page #: 1/2



Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Wednesday, November 24, 2021

Assigned to : Truc Vu

Test Code : PREP1613-S

Instrument Id:

Test Description : Preparation of soil by 1613

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	MTRX SPK	0	REZ818-01										2021/11/24
	MTRX SPK	1	REZ818-01										2021/11/24
	SPIKE												2021/11/24
	BLANK												2021/11/24
CIU8090	QZV226-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
CIU8090	QZV229-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
CIU8090	QZV230-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
CIU8090	QZV231-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
CIX2301	REZ784-01R		PDI-CORE-29E-02-*						1	2021/12/08	2021/11/23 18:00		2021/11/24
CIX2301	REZ785-01R		PDI-CORE-129E-0*						1	2021/12/08	2021/11/23 18:00		2021/11/24
CIX2305	REZ798-01R		PDI-CORE-01-A-07*						1	2021/11/18	2021/11/25 18:00		2021/11/24
CIX2305	REZ799-01R		PDI-CORE-01-A-08*						1	2021/11/18	2021/11/25 18:00		2021/11/24
CIX2305	REZ800-01R		PDI-CORE-03-B-04*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2305	REZ801-01R		PDI-CORE-03-B-05*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2305	REZ812-01R		PDI-CORE-103-B-0*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2305	REZ817-01R		PDI-CORE-04-B-05*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2305	REZ818-01R		PDI-CORE-04-B-06*						1	2021/11/19	2021/11/25 18:00		2021/11/24
CIX2314	REZ849-01R		PDI-CORE-05B-05-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
CIX2314	REZ850-01R		PDI-CORE-05B-06-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
CIX2314	REZ851-01R		PDI-CORE-04A-05-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
CIX2314	REZ852-01R		PDI-CORE-04A-06-*						1	2021/11/20	2021/11/23 18:00		2021/11/24

Remarks:

Samples extracted by:

Truc Vu

Instrumentation performed by:

Date:

Calculations performed by:

Date:

Validated by:

Date:

Job No.	Rep	Client Name	Contact	Client Tier	National
MC1U8090	CC4	Bureau Veritas Laboratories	Debbie Nordbruket	Tier 4 (Enviro.)	Bureau Veritas 134
	Offsite job C1U8090 was created on Thursday, October 21, 2021 in LimsEasternDb with offsite code ONTV Project #: VANENV job# C178934				
GC1X2301	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1K0374				
GC1X2305	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0786				
GC1X2314	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0851				

Surrogates/Spikes	Method Spike	Spikes	Samples

Sample	Preparation Remarks

Sample	Instrumentation Remarks

HI-RES /LOW RES SAMPLE TRACKING SHEET

Testcode:

EPA 1613

WS No. HR 20211124-03

See comments

Prep. Method

REP1613-5

Extracted By

TRV-2111/24

Extract Started

21/11/24 4:30 pm

Cleaned Up By

Extract Completed

21/11/25 8:35 am

GPC'd By

GPC Date

GPC ID #

ID of Balance Used

0034308623

For solid samples attach WS with % moisture

on back

Labels checked

467 of 29

LAB ID Number	Client Name	Sample Identify	Init. Wt (g)	Dry Weight (g)	Acid Backwash	Final Vol.	Split	Sep. Funn.	Albin Filter	Flask	Soxhlet	Rotovap ID #
Blank Spike		Blank	20.0024							D76	D332	
Blank Spk. Spike		Spike	20.0235							D106	D354	
		MSD (REZ818-01R)	20.0093							D47	D359	
1		MSD (REZ818-01R)	20.0067							D74	D260	
2		MSD (REZ818-01R)	20.0169							D83	D358	
3	BU labs	QZV 230-01R	20.0325							D113	D343	
4		QZV 230-01R	20.0182							FM107	D347	
5		QZV 231-01R	20.0413							D114	D335	
6		QZV 231-01R	20.0069							D103	D391	
7	Apex labs	REZ 784-01R	20.0492							FM49	D62	
8		REZ 785-01R	20.0049							R27	D345	
9		REZ 799	20.0017							D309	D346	
10		REZ 800	20.0476							D82	D337	
11		REZ 801	20.0064							D116	D155	
12		REZ 812	20.0070							D85	D340	
13		REZ 817	20.0064							D108	D337	
14		REZ 818	20.0227							D80	D335	
15		REZ 849	20.0022							D112	D321	
16		REZ 850-01R	20.0263							D49	D268	
17		REZ 851-01R	20.0191							D40	D274	
18		REZ 852-01R								D74	D356	
19												
20												

Bureau Veritas Laboratories

* See reverse side for solvents, clean up materials and spiking standards used

NOTE: all 8000 series methods require MS & MSD

HR Soil/Tissue/Food Tracking Sheet

Double spike

Solvent	Lot No	Date & Time	Extracted by:	WS#
MeCl ₂	214517	2/11/24 (21:30)	MSW-21/11/24	MSW 21/11/24
Hexane	214235	2/11/24 (8:35)		
Toluene	212082			
Iso Octane				
Na ₂ SO ₄	210374			
Acetone				
Silica				

Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Prep. Date/Code	N2-Evap ID	MTD SPK	Mx. Spk.	Samples
44% Acid Silica		4% DCM : Hexane		50% Toluene : Ethyl Acet						
33% KOH Silica		Alumina		50% DCM : Hexane						
10% AgNO ₃		50% DCM : Cyclohex.		Carbon/Celite						
Copper (if required)										
Surrogate/Spike solutions										
EPA Mid 23 Internal Std Soln		100% T4-H7D0DF @ 100 pgul 13C12-08CDD @ 200 pgul								
EPA Mid 1613 Internal Std Soln		13C12-14-H7D0DF @ 250 pgul 08CDD0DF @ 500 pgul								
EPA Mid 1613 Matrix Spiking Soln	13-H7N5-22	13C12-14-H7D0DF @ 100 pgul 13C12-08CDD @ 200 pgul								
EPA Mid 1613 Matrix Spiking Soln	18-H7N5-19	14C40-P5-H7D0DF @ 200 pgul 08CDD0DF @ 400 pgul								
EPA Mid 1613 Alt. Spike (Clean-up)	21-H7N5-06	37C4-237B-14CDD @ 400 pgul								
EPA Region IV (8290) Internal Std Soln		13C12-14-H7N5 @ 100 pgul 13C12-08CDD @ 200 pgul								
EPA Region IV (8290) Alt. Spiking Soln		14-H7D0DF @ 25 pgul 08CDD0DF @ 50 pgul								

Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Prep. Date/Code	N2-Evap ID	MTD SPK	Mx. Spk.	Samples
1% Deact. Alumina										
Surrogate/Spike solutions										
CARB 429 Internal Std Soln (PAH)										
CARB 429 Matrix Spiking Soln										

Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Prep. Date/Code	N2-Evap ID	MTD SPK	Mx. Spk.	Samples
44% Acid Silica		3% Deactivated Silica		H2SO4						
Copper		Nonane		HCl						
3% Deactivated Florisil										
Surrogate/Spike solutions										
HR PCB Internal Std Soln										
HR PCB Matrix Spiking Soln										
HR PCB Alternate (Clean-up) Spike										

Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Solvent/Absorbent	Lot#Lab ID	Prep. Date/Code	N2-Evap ID	MTD SPK	Mx. Spk.	Samples
OCs										
Solvent/Absorbent										
Petroleum Ether		1% Deactivated Florisil								
Ethyl Acetate		20% Ethyl Acet. Petroleum Ether								
Surrogate/Spike solutions										
HR OC Internal Std Soln										
HR OC Matrix Spiking Soln										

2024/10/19/14 - (MSW) was added to the alt samples. See pg 103

21/11/29

Ortawa Sand Lot # 195327

Glassware Lot # 1382099

Rockeat #1

EZ 123 Clean up

archived(SmL) ← Double spike → EZ cleanup (SmL)

HRMS Sample Information Transfer

Analyst: Jhuc Du (Panda)

Date: 21/11/24

WS #: 20211124-03 / Prep1613-S

Extraction Status: Burner Turned on @ 4:30 pm. TW-21/11/24

Roto-Vap Status: completed for all samples. YLC 2021/11/26

1ml iso-octane was added for all samples. YLC 2021/11/26
Transferred all samples to 40ml vials. PD4 21/11/27

Methods Requiring Clean up Spike	
Method 1613 - (S)W/TI	
Method 1668 - S'W/TI	
Method 23 - Air	
Clean up spike added?	Yes; to all samples Initial/Date MSW 21/11/29

2x Split done for the samples and ready for cleanup. MSW 21/11/29

Cleanup Status: Ran all samples on EZ. MSW 21/11/29
EZ 123 Clean up

msw 21/11/29
Reacti-Vial: was done for all samples. MSW 21/11/29

Completion Date: November 29, 2021

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 2
Worksheet # HR2021/11/24-03 (Prep 1613-S)

<u>SOLVENTS</u>	<u>Lot #</u>
Hexane (Fisher H303-4)	<u>214235</u>
DCM (Fisher D151-4)	<u>214517</u>
Toluene (Fisher T290-4)	<u>212022</u>

<u>FMS COLUMNS</u>	<u>Lot #</u>
Extra Large (ACIDIC XL MIX EZ-P)	<u>N/A</u>
Jumbo Silica (EZHI-ACD-020)	<u>HDP139</u>
Classical Silica (ACID 6g EZ-P)	<u>N/A</u>
Basic Alumina (EZHI-ALU-006)	<u>LLP115</u>
Carbon/Celite (EZHI-CLA 034)	<u>CP118</u>

CELL #	Sample Info
1	BLANK
2	SPIKE
3	Matrix Spike
4	Matrix Spike Dup.
5	QZV226
6	QZV229

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 1
Worksheet #: HR-2021-11-24-03 (Prep 16135)

<u>SOLVENTS</u>	<u>Lot #</u>
Hexane (Fisher H303-4)	<u>214235</u>
DCM (Fisher D151-4)	<u>214517</u>
Toluene (Fisher T290-4)	<u>212022</u>

<u>FMS COLUMNS</u>	<u>Lot #</u>
Extra Large (ACIDIC XL MIX EZ-P)	<u>N/A</u>
Jumbo Silica (EZHI-ACD-020)	<u>HD P-139</u>
Classical Silica (ACID 6g EZ-P)	<u>N/A</u>
Basic Alumina (EZHI-ALU-006)	<u>LLP115</u>
Carbon/Celite (EZHI-CLA 034)	<u>CP118</u>

CELL #	Sample Info
1	QZV230
2	QZV231
3	REZ784
4	REZ785
5	REZ798
6	REZ799

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 3
Worksheet #: HR-2021-11-24-03 / Prep 1613.5

<u>SOLVENTS</u>	<u>Lot #</u>
Hexane (Fisher H303-4)	<u>214235</u>
^{CAVEDON} DCM (Fisher D151-4)	<u>106435</u>
^{MSW} Toluene (Fisher T290-4)	<u>212022</u>

<u>FMS COLUMNS</u>	<u>Lot #</u>
Extra Large (ACIDIC XL MIX EZ-P)	<u>N/A</u>
Jumbo Silica (EZHI-ACD-020)	<u>HDP139</u>
Classical Silica (ACID 6g EZ-P)	<u>N/A</u>
Basic Alumina (EZHI-ALU-006)	<u>LLP115</u>
Carbon/Celite (EZHI-CLA 034)	<u>CP118</u>

CELL #	Sample Info
1	REZ 800
2	REZ 801
3	REZ 812
4	REZ 817
5	REZ 818
6	REZ 849

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 1
Worksheet # HR-2021-11-24-03 / Prep 16135

<u>SOLVENTS</u>	<u>Lot #</u>
Hexane (Fisher H303-4)	<u>214235</u>
DCM (Fisher D151-4) SAFEDON MSW	<u>106435</u>
Toluene (Fisher T290-4)	<u>212022</u>

<u>FMS COLUMNS</u>	<u>Lot #</u>
Extra Large (ACIDIC XL MIX EZ-P)	<u>N/A</u>
Jumbo Silica (EZHI-ACD-020)	<u>HDP139</u>
Classical Silica (ACID 6g EZ-P)	<u>N/A</u>
Basic Alumina (EZHI-ALU-006)	<u>LLP115</u>
Carbon/Celite (EZHI-CLA 034)	<u>CP118</u>

CELL #	Sample Info
1	RE2850
2	RE2851
3	RE2852
4	N/A
5	N/A
6	N/A

Comments:

Filon M3211209B04
 Sample
 Acqu 2021/09/12 23:57
 Samj BLANK
 Com BLANK
 Samj 20.0024

Run
 File 1127A_1613_Spt
 WS# 77162477716238, S
 H Fac 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	Code	TEF	LOD(pg)	S/N	Mod.User	RRF Mean	%Rec
1	2,3,7,8-TCDF	304	-	0	-	0	-0.097563		-0.010	.000 Max T	-0.097563	-	0.97161	-
		306	24.57	0	-						-			
2	1,2,3,7,8-PeCDF	340	-	0	-	0	-0.10876		-0.005		-0.10876	-	0.979466	-
		342	31.93	0	-						-			
3	2,3,4,7,8-PeCDF	340	-	0	-	0	-0.097753		-0.049		-0.097753	-	1.089756	-
		342	33.58	0	-						-			
4	1,2,3,4,7,8-HxCDF	374	-	0	-	0	-0.10275		-0.010		-0.10275	-	1.159483	-
		376	38.11	0	-						-			
5	1,2,3,5,7,8-HxCDF	374	-	0	-	0	-0.108836		-0.011		-0.108836	-	1.094648	-
		376	38.25	0	-						-			
6	2,3,4,5,7,8-HxCDF	374	-	0	-	0	-0.101256		-0.010		-0.101256	-	1.176583	-
		376	38.80	0	-						-			
7	1,2,3,7,8,9-HxCDF	374	-	0	-	0	-0.108571		-0.011		-0.108571	-	1.097314	-
		376	39.70	0	-						-			
8	1,2,3,4,6,7,8-HpCDF	408	-	0	-	0	-0.096997		-0.001		-0.096997	-	1.208367	-
		410	41.43	0	-						-			
9	1,2,3,4,7,8,9-HpCDF	408	-	0	-	0	-0.09958		-0.001		-0.09958	-	1.177018	-
		410	42.71	0	-						-			
10	OCDF	442	-	0	-	0	-0.128728		0.000		-0.128728	-	1.239902	-
		444	45.41	0	-						-			
11	2,3,7,8-TCDD	320	-	0	-	0	-0.121713		-0.122		-0.121713	-	1.240957	-
		322	25.73	0	-						-			
12	1,2,3,7,8-PeCDD	356	-	0	-	0	-0.108493		-0.054		-0.108493	-	1.116262	-
		358	34.31	0	-						-			
13	1,2,3,4,7,8-HxCDD	390	-	0	-	0	-0.116055		-0.012		-0.116055	-	1.111453	-
		392	39.05	0	-						-			
14	1,2,3,5,7,8-HxCDD	390	-	0	-	0	-0.115206		-0.012		-0.115206	-	1.119648	-
		392	39.17	0	-						-			
15	1,2,3,7,8,9-HxCDD	390	-	0	-	0	-0.11544		-0.012		-0.11544	-	1.117372	-
		392	39.50	0	-						-			
16	1,2,3,4,5,7,8-HpCDD	424	-	0	-	0	-0.121396		-0.001		-0.121396	-	1.084762	-
		426	42.36	0	-						-			
17	OCDD	458	-	0	-	0	-0.118472		0.000		-0.118472	-	1.054514	-
		460	45.29	0	-						-			
18	13C-2,3,7,8-TCDF	316	24.57	1137002	0.81	2543593	1545.772			1.338	3056		2.144584	77
		318	24.57	1406591	yes						4136			
19	13C-1,2,3,7,8-PeCDF	352	31.91	1308504	1.69	2082022	1720.749			3.377	1201		1.577374	86
		354	31.89	773518	yes						987			
20	13C-2,3,4,7,8-PeCDF	352	33.58	1504354	1.63	2427656	2062.075			3.472	1715		1.534347	103
		354	33.57	923302	yes						1352			
21	13C-1,2,3,4,7,8-HxCDF	384	38.08	690731	0.53	2000424	1760.687			2.925	1060		1.332773	88
		386	38.09	1309693	yes						3195			
22	13C-1,2,3,5,7,8-HxCDF	384	38.21	775350	0.53	2243081	1833.503			2.716	1112		1.435092	92
		386	38.20	1467731	yes						3293			
23	13C-2,3,4,6,7,8-HxCDF	384	38.88	985546	0.54	2828052	2478.69			2.913	1644		1.338387	124
		386	38.87	1842506	yes						4748			
24	13C-1,2,3,7,8,9-HxCDF	384	39.72	690261	0.57	1901765	1783.218			3.116	992		1.251033	89
		386	39.69	1211504	yes						2952			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.44	603266	0.48	1853915	1717.312			2.853	1419		1.266359	86
		420	41.41	1250649	yes						2653			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.74	508102	0.45	1639191	1808.44			3.398	1158		1.063266	90
		420	42.71	1131089	yes						2176			
27	13C-2,3,7,8-TCDD	332	25.64	633041	0.82	1405088	1579.959			1.347	3013		1.159041	79
		334	25.70	772047	yes						3713			
28	13C-1,2,3,7,8-PeCDD	368	34.31	786025	1.64	1265628	2007.786			1.71	4785		0.821541	100
		370	34.29	479604	yes						2380			
29	13C-1,2,3,4,7,8-HxCDD	402	39.07	749737	1.29	1331091	1714.288			1.826	4525		0.910836	86
		404	39.06	581354	yes						2391			
30	13C-1,2,3,5,7,8-HxCDD	402	39.17	868012	1.25	1560394	1923.21			1.747	4645		0.951752	96
		404	39.15	692382	yes						2496			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.39	652291	1.09	1249330	1556.521			2.134	2100		0.941539	78
		438	42.36	597039	yes						2521			
32	13C-OCDD	470	45.33	862174	0.91	1807972	2810.609			2.056	3215		0.754584	70
		472	45.29	945798	yes						3710			
33	13C-1,2,3,4,7,8-TCDD	332	25.34	698620	0.84	1534579	33.107			0.026	3448		46352.42	2
		334	25.34	835959	yes						4151			
34	13C-1,2,3,7,8,9-HxCDD	402	39.51	950318	1.26	1704958	32.073			0.027	4994		53159.29	2
		404	39.49	754640	yes						2650			
35	13C-2,3,7,8-TCDD	328	25.66	171494	1	342988	177.533			0.364	1333		2.517916	89
		328	25.62	171494	yes						1333			
36	Totals Tetra-Furans	304	-	0	-	0	-0.097563		0		-0.097563	-	0.97161	-
		306	26.00	0	-						-			
37	Totals Tetra-Dioxins	320	-	0	-	0	-0.121713		0		-0.121713	-	1.240957	-
		322	26.00	0	-						-			
38	Totals Penta-Furans	340	-	0	-	0	-0.102963		0		-0.102963	-	1.034611	-

		342	34.00	0	-							
39	Totals Penta-Dioxins	356	-	0	-	0	-0.108493	0	-0.108493	-	1.116262	-
		358	34.00	0	-					-		
40	Totals Hexa-Furans	374	-	0	-	0	-0.105244	0	-0.105244	-	1.132007	-
		376	39.50	0	-					-		
41	Totals Hexa-Dioxins	390	-	0	-	0	-0.116397	0	-0.116397	-	1.108192	-
		392	39.50	0	-					-		
42	Totals Hepta-Furans	408	-	0	-	0	-0.098272	0	-0.098272	-	1.192692	-
		410	42.50	0	-					-		
43	Totals Hepta-Dioxins	424	-	0	-	0	-0.121396	0	-0.121396	-	1.084762	-
		426	42.50	0	-					-		

Totals Compound 36: Totals Tetra-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 37: Totals Tetra-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 38: Totals Penta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMPLD08\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

36: Totals Tetra-Purans

BLANK

MS# 7716247/7716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

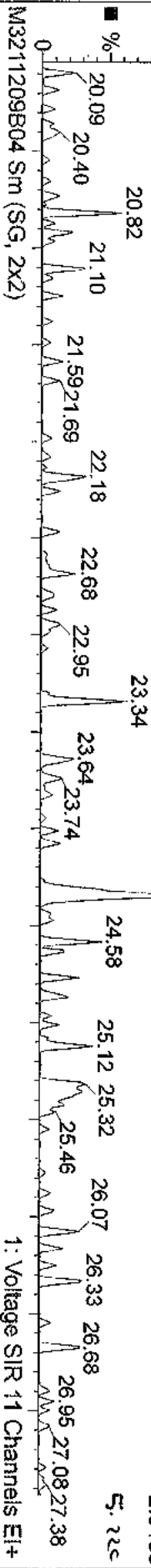
23:57:21

1: Voltage SIR 11 Channels EI+

303.9016

2.54e3

5.22e4

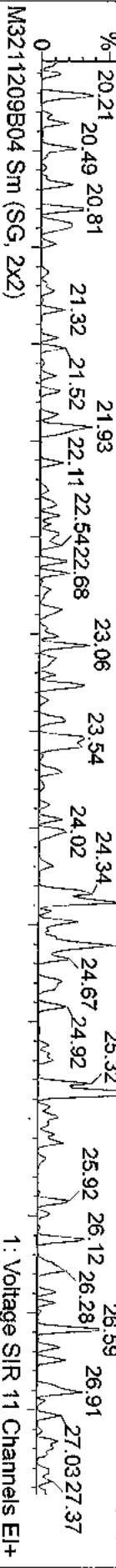


1: Voltage SIR 11 Channels EI+

305.8987

2.43e3

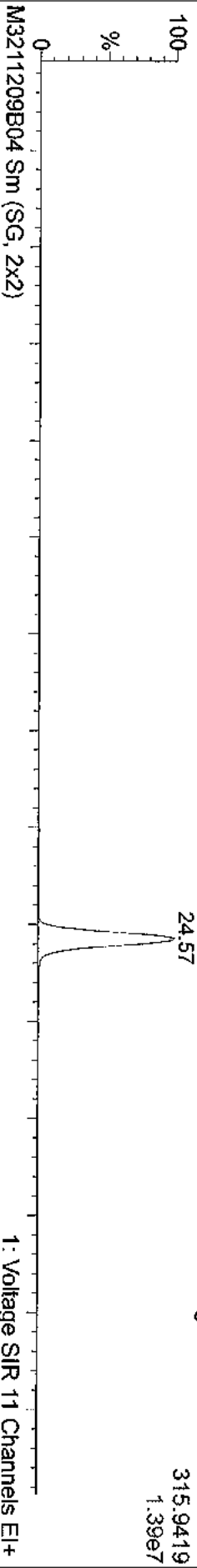
6.79e2



1: Voltage SIR 11 Channels EI+

315.9419

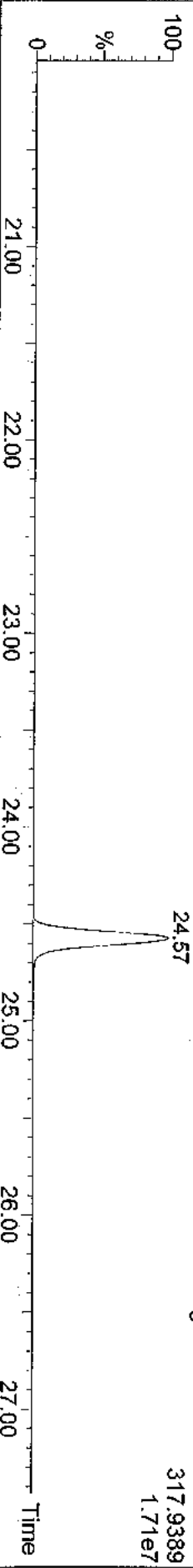
1.39e7



1: Voltage SIR 11 Channels EI+

317.9389

1.71e7



Quantity Sample Report

Sample List: C:\MASSVIEW\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSVIEW\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

37: Totals Tetra-Dioxins

BLANK

WS# 771624717716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

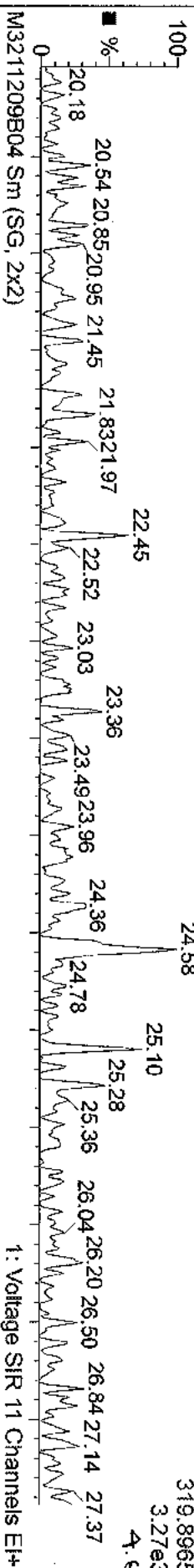
09-Dec-2021

23:57:21

1: Voltage SIR 11 Channels EI+

319.8965

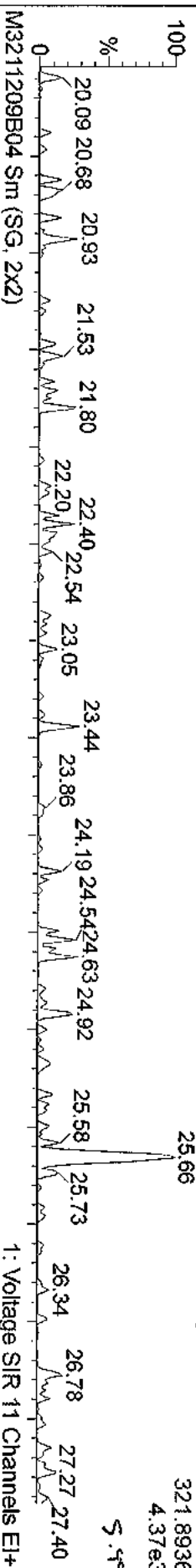
3.27e3



1: Voltage SIR 11 Channels EI+

321.8936

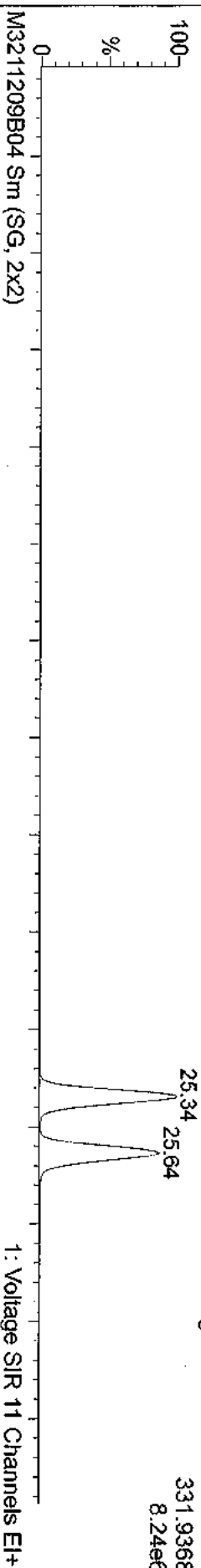
4.37e3



1: Voltage SIR 11 Channels EI+

331.9368

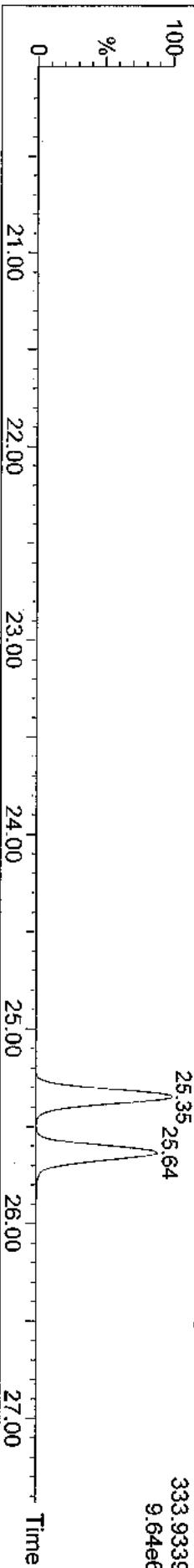
8.24e6



1: Voltage SIR 11 Channels EI+

333.9339

9.64e6



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

35: C137-2,3,7,8-TCDD

BLANK

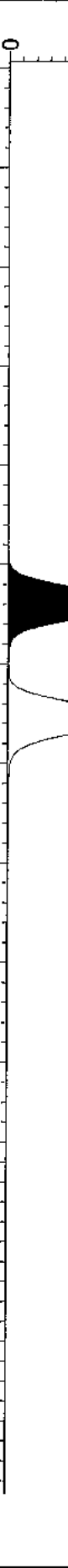
WS# 77162477716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

23:57:21



Quantity Sample Report

Sample List: C:\MASSLINK\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLINK\Default.pro\METHODS\M3211127A_MC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

38: Hexa DPE

BLANK

WS# 77162477716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

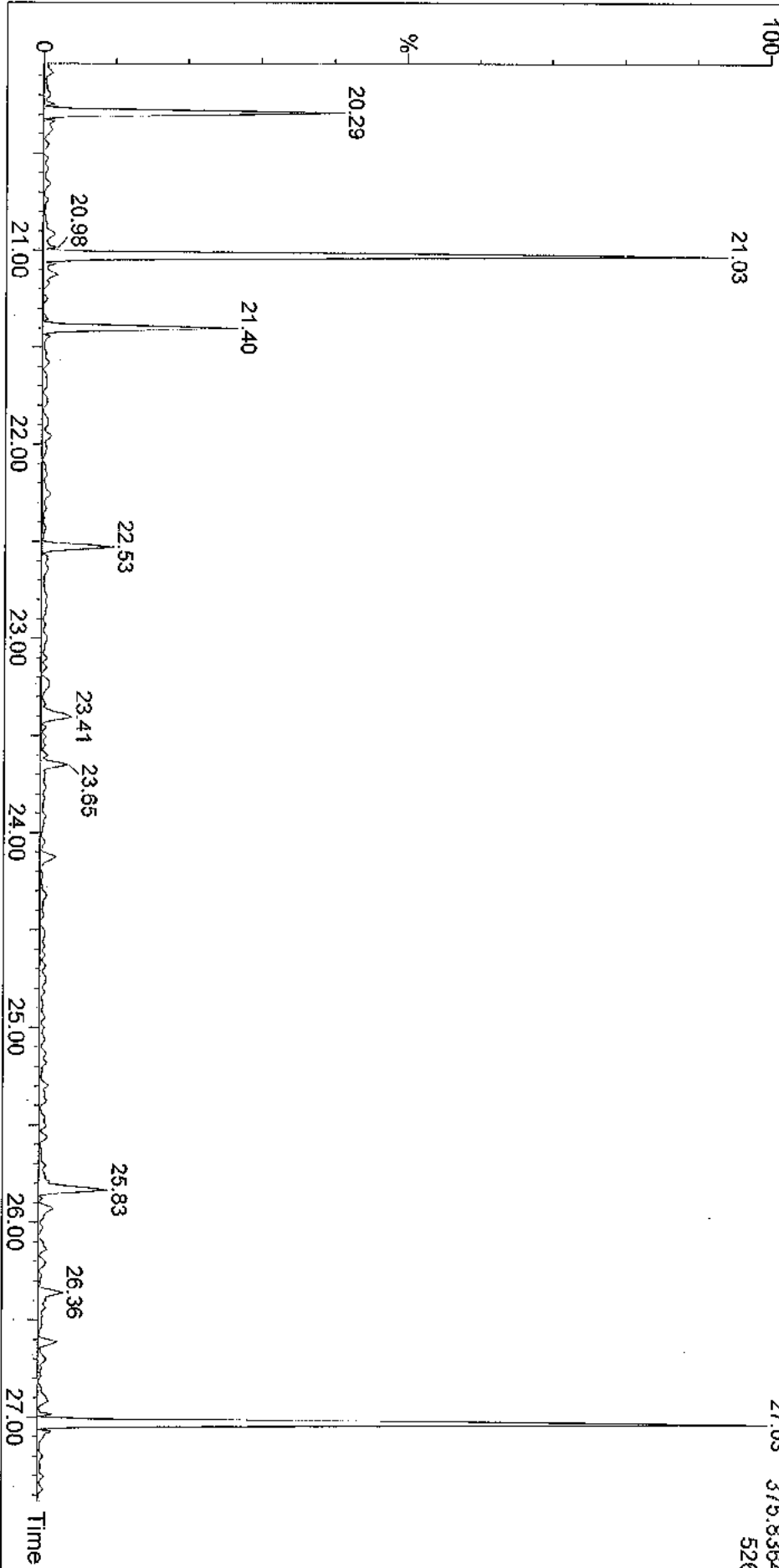
09-Dec-2021

23:57:21

1: Voltage SIR 11 Channels EI+

27.03 375.8364

526



Quantity Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

39: Function 1 Lockmass

BLANK

WS# 77162477716238, S

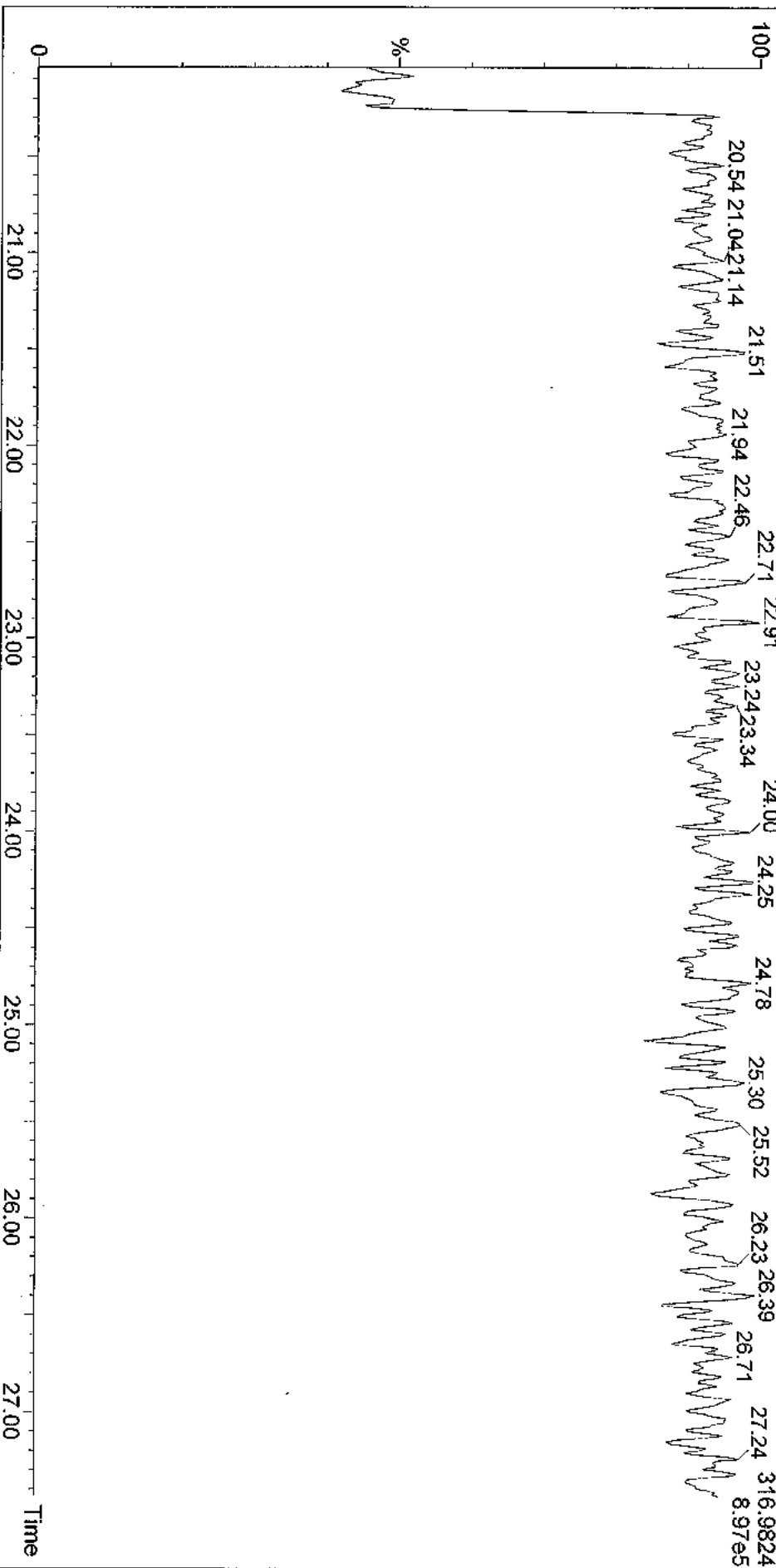
M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

23:57:21

1: Voltage SIR 11 Channels EI+



Quantity Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211209B_1613
 Last Modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

40: Totals Penta-Furans

BLANK

WS# 7716247/7716238, S

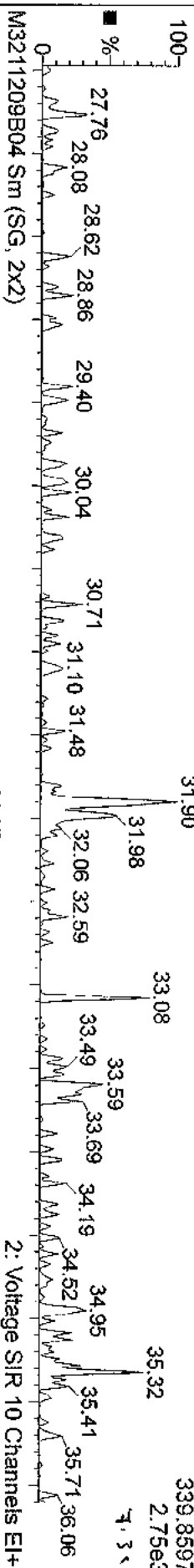
M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

23:57:21

2: Voltage S/R 10 Channels EI+



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Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211209B_1613
Last modified: Fri Dec 10 08:50:18 2021
Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
Text: BLANK

42: Hepta.DPE

BLANK

WS# 7716247/7716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

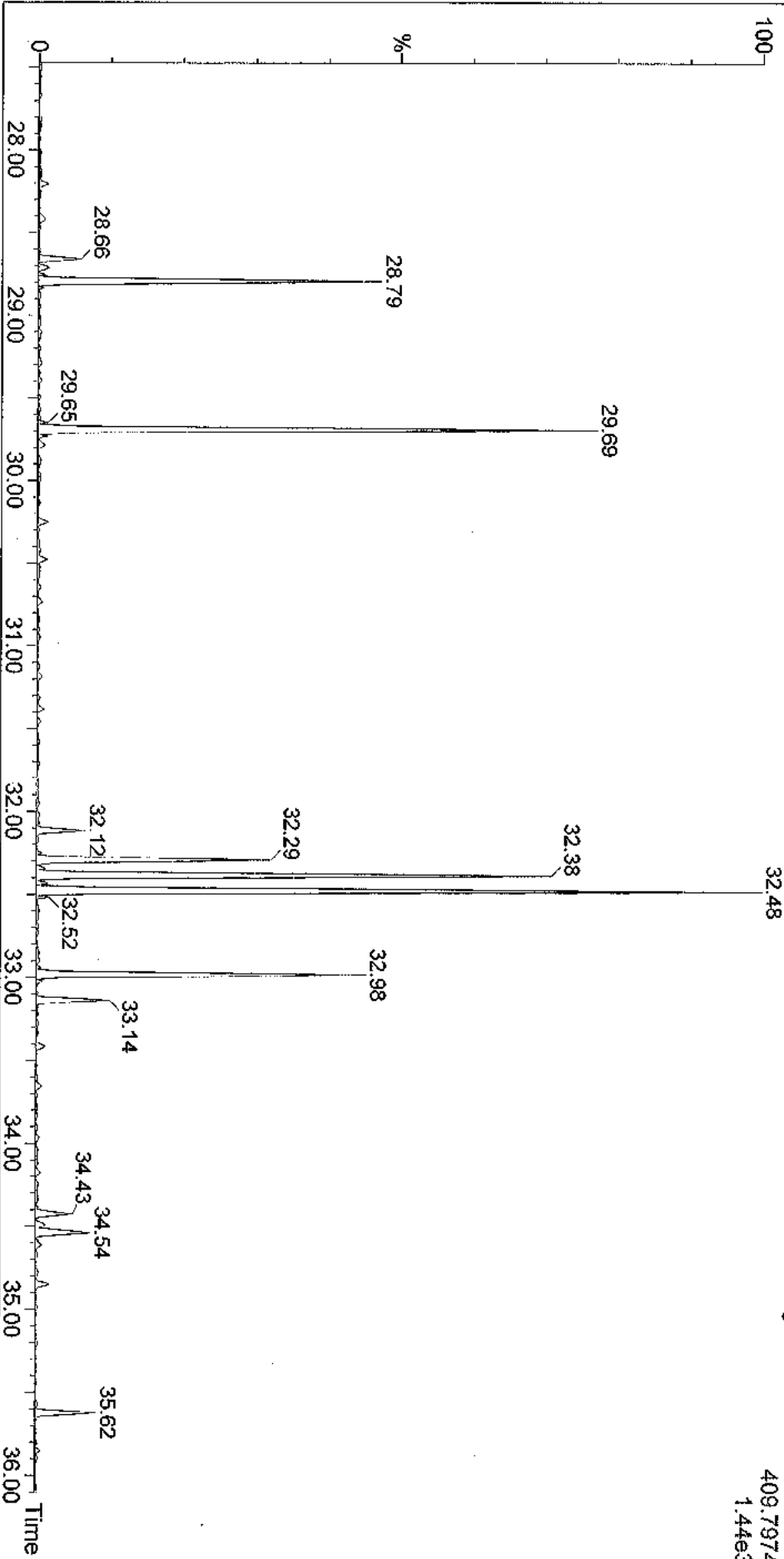
09-Dec-2021

23:57:21

2: Voltage SIR 10 Channels EI+

409.7974

1.44e3



Quantify Sample Report

Sample List: C:\MSSTLTX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSSTLTX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

63: Function 2 Lockmass

BLANK

WS# 77162477716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

23:57:21

2: Voltage SIR 10 Channels EI+

100- 28.00 28.38 28.70 29.02 29.19 29.61 30.14 30.27 30.61 31.00 31.33 31.85 32.21 32.81 32.92 33.30 33.55 34.12 34.63 35.15 35.39 35.93 366.9792 7.37e5

27.90 %

28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 Time

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:59:18 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

44: Totals Hexa-Furans

BLANK

WS# 7716247/7716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

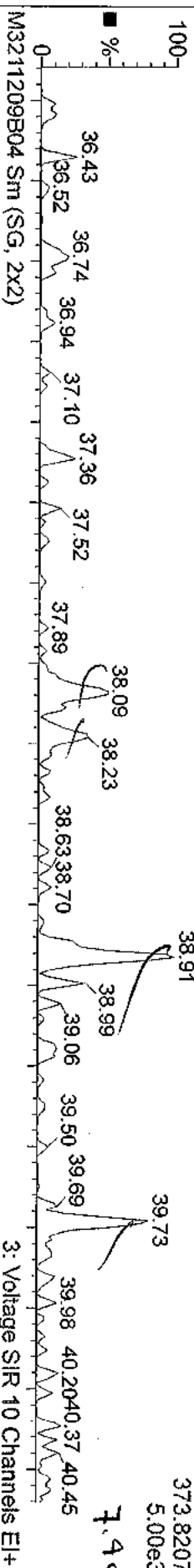
23:57:21

3: Voltage SIF 10 Channels EI+

373.8207

5.00e3

7.4e3

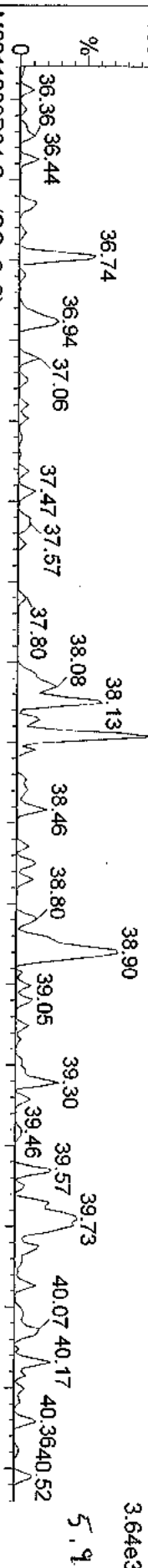


M3211209B04 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

375.8178

3.64e3

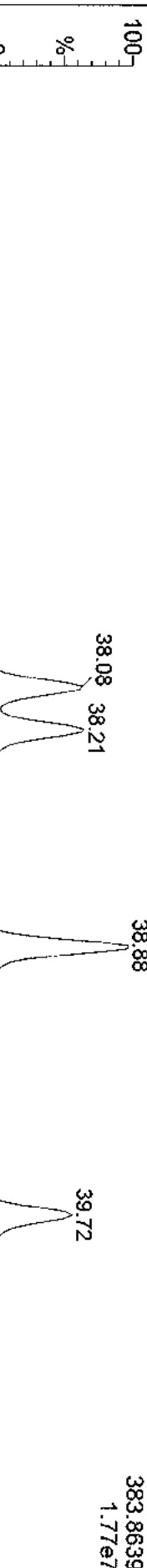


M3211209B04 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

383.8639

1.77e7

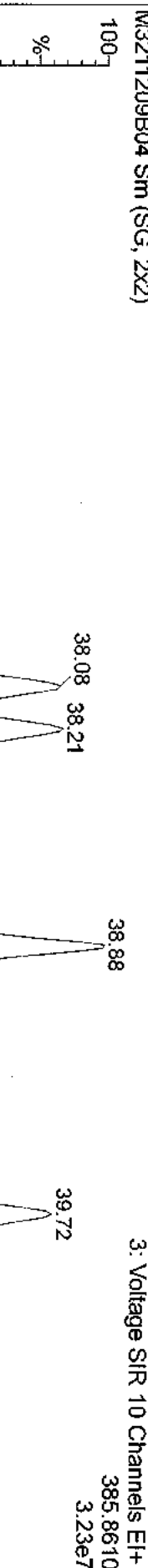


M3211209B04 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

385.8610

3.23e7



M3211209B04 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

385.8610

3.23e7

Quantity Sample Report

Sample List: C:\MSST\XX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSST\XX\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

45: Totals Hexa-Dioxins

Autospec Ultima - M536

09-Dec-2021

WS# 7716247/7716238, S

23:57:21

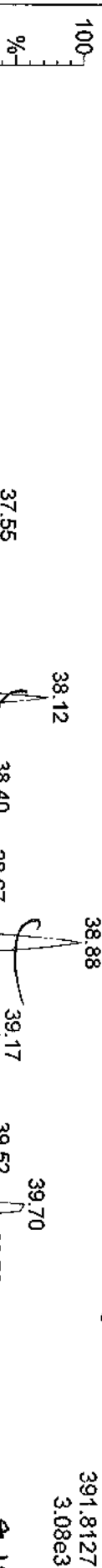
M3211209B04 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211209B04 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



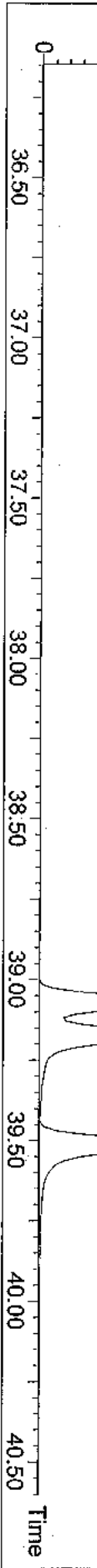
M3211209B04 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211209B04 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



Quantity Sample Report

Sample List: C:\MSSTXK\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSSTXK\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04

Text: BLANK

46: Octa DBE

BLANK

WS# 7716247/7716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

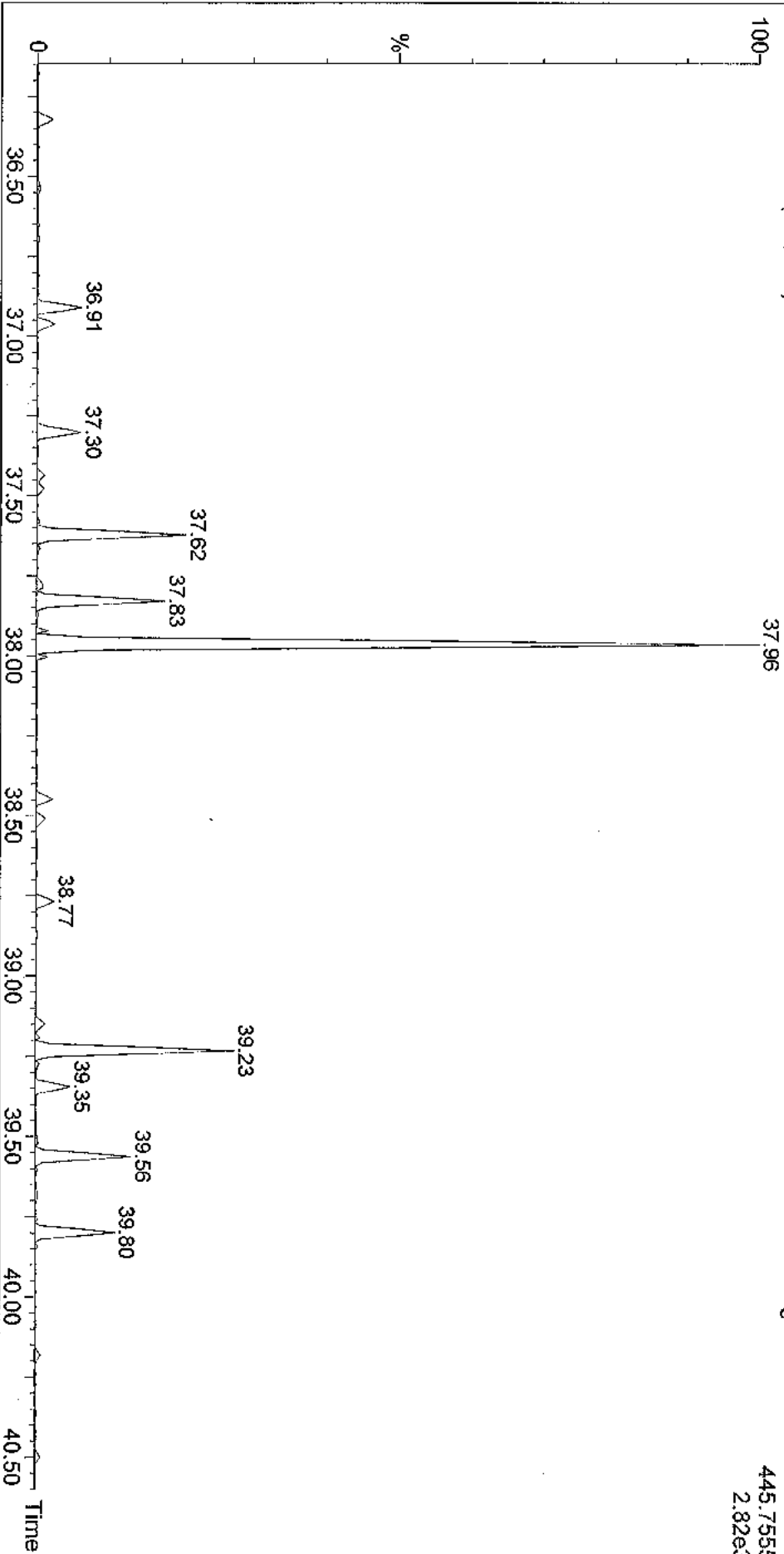
09-Dec-2021

23:57:21

3: Voltage SIR 10 Channels EI+

445.7555

2.82e3



Quantity Sample Report

Sample List: C:\MSSTYX\Default.pro\SAFILEDB\M3211209E_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

47: Function 3 Lockmass

BLANK

WS# 77162477716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

23:57:21

3: Voltage-SIR 10 Channels EI+

36.50 36.59 36.82 36.94 37.20 37.47 37.67 37.94 38.30 38.41 38.61 38.87 39.12 39.25 39.38 39.82 40.06 40.17 40.47 380.9760 5.63e6



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

[Handwritten signature]

3.6228 of 729

Name: M3211209B04
 Text: BLANK

48: Totals Hepta-Furans

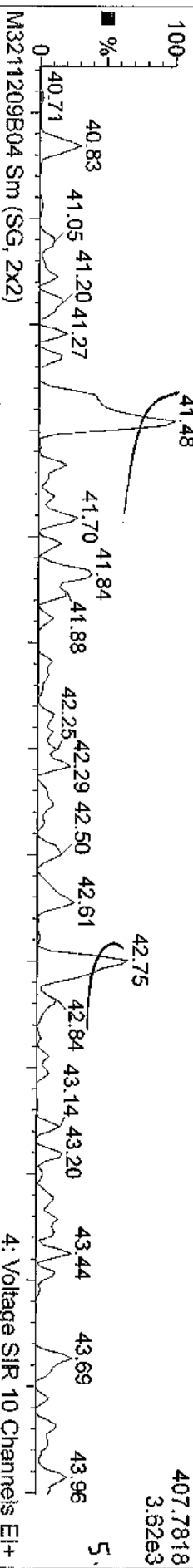
AutoSpec Ultima - M536

BLANK
 WS# 7716247/7716238, S

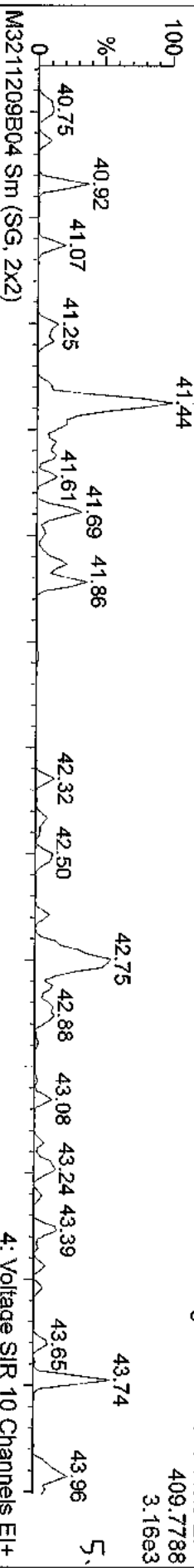
09-Dec-2021
 23:57:21

M3211209B04 Sm (SG, 2x2)

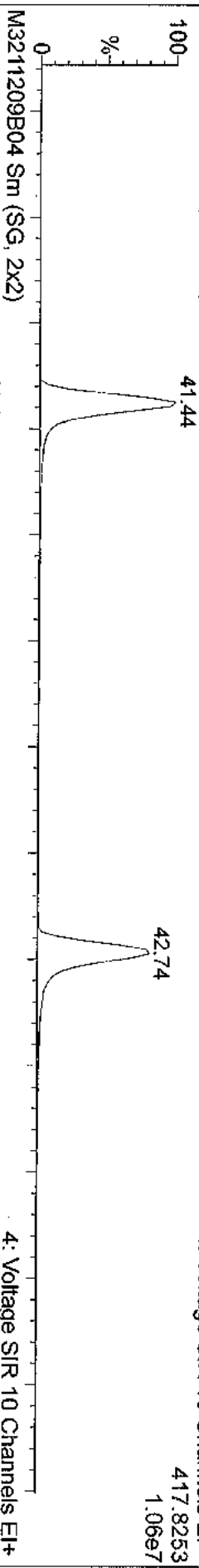
4: Voltage SIR 10 Channels EI+



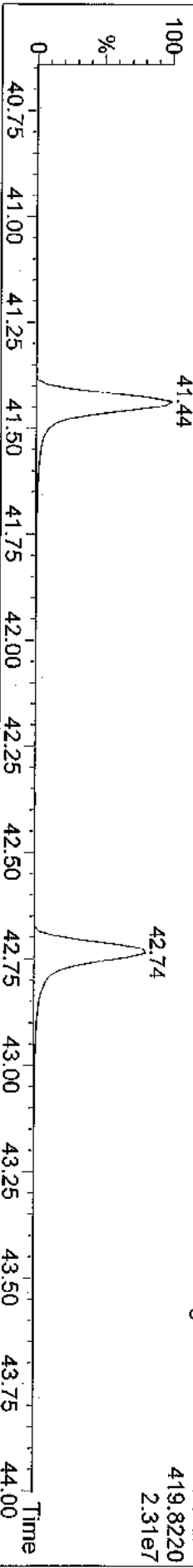
4: Voltage SIR 10 Channels EI+



4: Voltage SIR 10 Channels EI+



4: Voltage SIR 10 Channels EI+



4: Voltage SIR 10 Channels EI+

Quantify Sample Report

Sample list: C:\MSDCHEM\Default.pro\SMFLDDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

49: Total: Hepta-Dioxins

BLANK

MS# 7716247/7716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

23:57:21

4: Voltage SIR 10 Channels EI+

423.7767

5.17e3

4.21e3

M3211209B04 Sm (SG, 2x2)

100

%

40.69 40.95 41.07

41.44

41.75

41.83

42.05 42.22

42.37 42.41

42.51

42.73

4: Voltage SIR 10 Channels EI+

425.7737

3.02e3

M3211209B04 Sm (SG, 2x2)

100

%

40.71 40.79 41.09

41.25

41.42

41.56

41.76

41.83

42.39

42.44

42.61

42.74

42.88

43.17

43.29

43.36

43.64

43.82

43.95

4.04e3

4: Voltage SIR 10 Channels EI+

435.8169

1.07e7

M3211209B04 Sm (SG, 2x2)

100

%

42.39

42.73

42.78

42.93

43.13

43.33

43.60

43.76

4.21e3

4: Voltage SIR 10 Channels EI+

437.8140

9.79e6

Time

Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04

Text: BLANK

S0: Nova DB8

BLANK

WS# 77162477716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

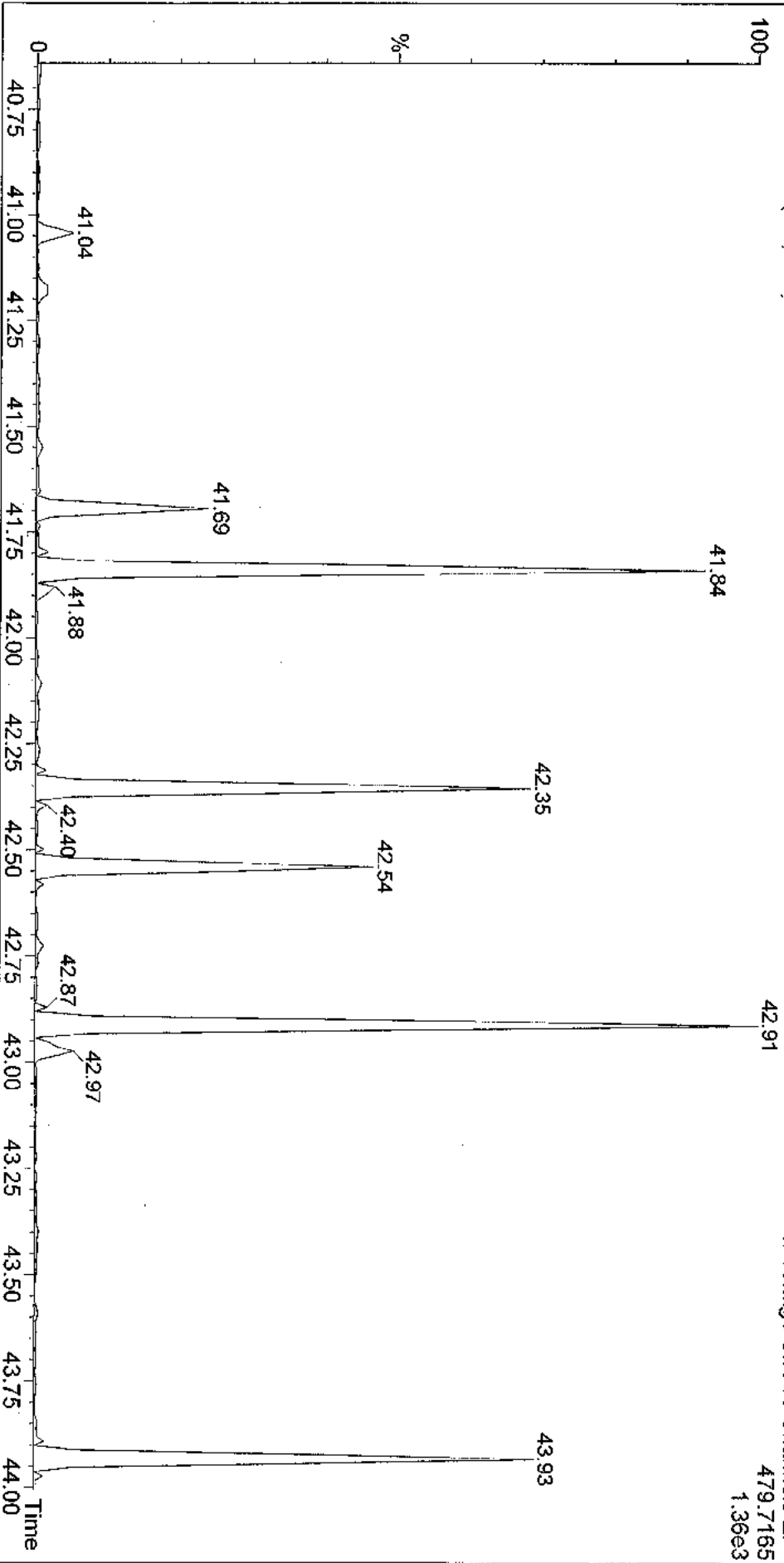
09-Dec-2021

23:57:21

4: Voltage SIR 10 Channels EI+

479.7165

1.36e3



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

S1: Function 4 Lockmass

BLANK

WS# 77162477716238, S

M3211209B04 Sm (SG, 2x2)

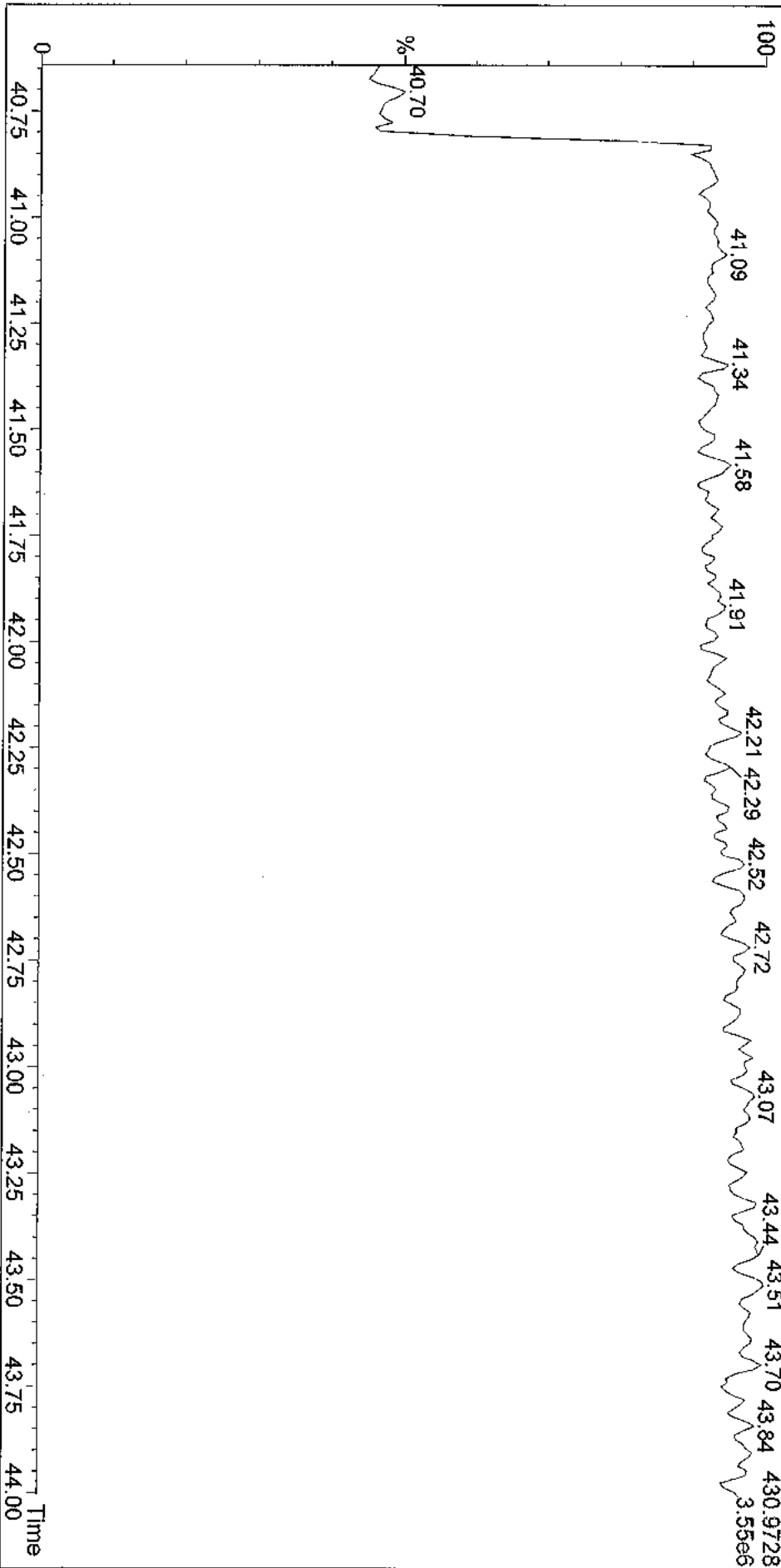
AutoSpec Ultima - M536

09-Dec-2021

23:57:21

4: Voltage SIR 10 Channels EI+

3.55e6



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDIR\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

10: ODF

BLANK

WS# 7716247/7716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

09-Dec-2021

23:57:21

5: Voltage S/R 8 Channels EI+

441.7428

3.25e3

3.39e4

M3211209B04 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

443.7398

4.51e3

3.8e4

M3211209B04 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

469.7780

1.15e7

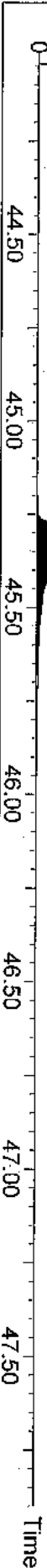
M3211209B04 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

471.7750

1.25e7

Area



Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

[Handwritten signature]

1.41e3 494 of 729

17: OCB0

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Autospec Ultima - M536

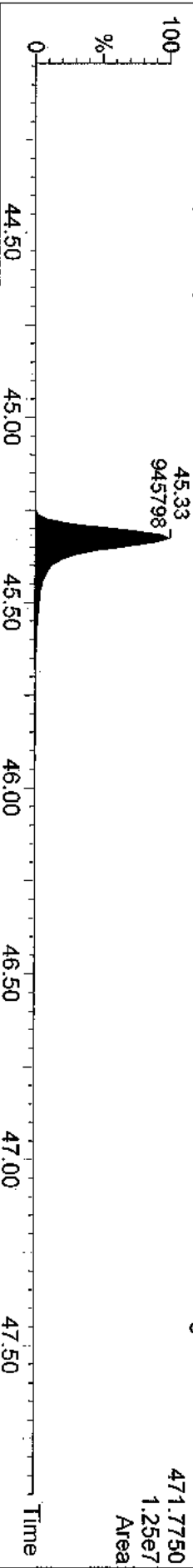
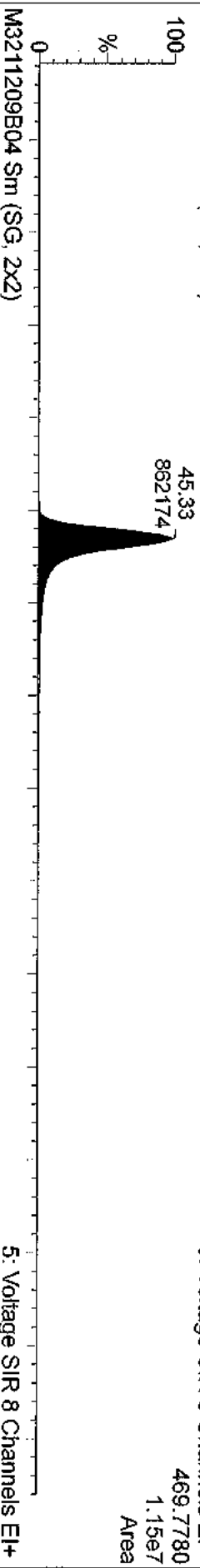
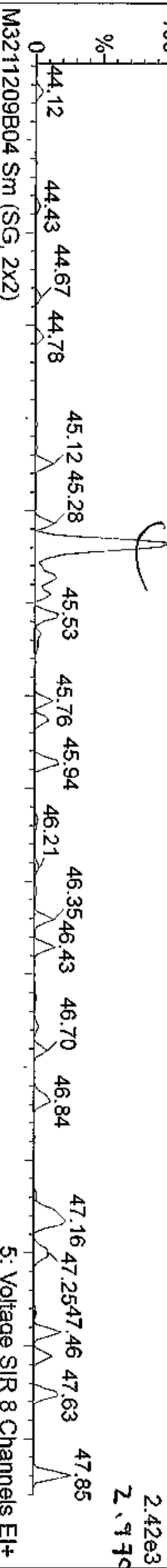
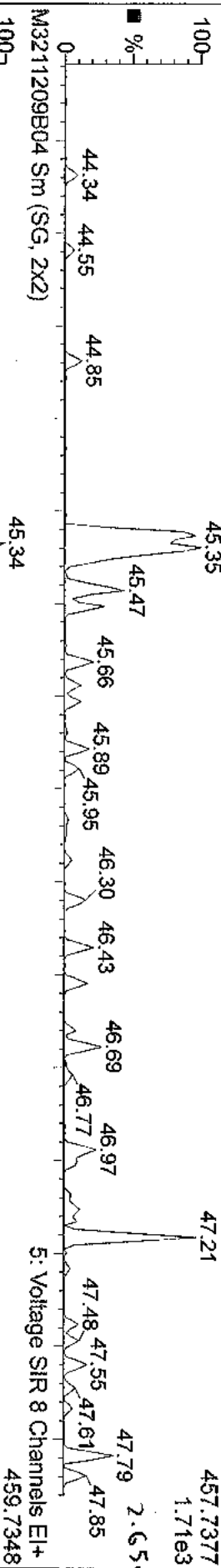
09-Dec-2021

WS# 7716247/7716238, S

23:57:21

M3211209B04 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



Quantity Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04

Text: BLANK

52: Decca DBF

BLANK

WS# 77162477716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

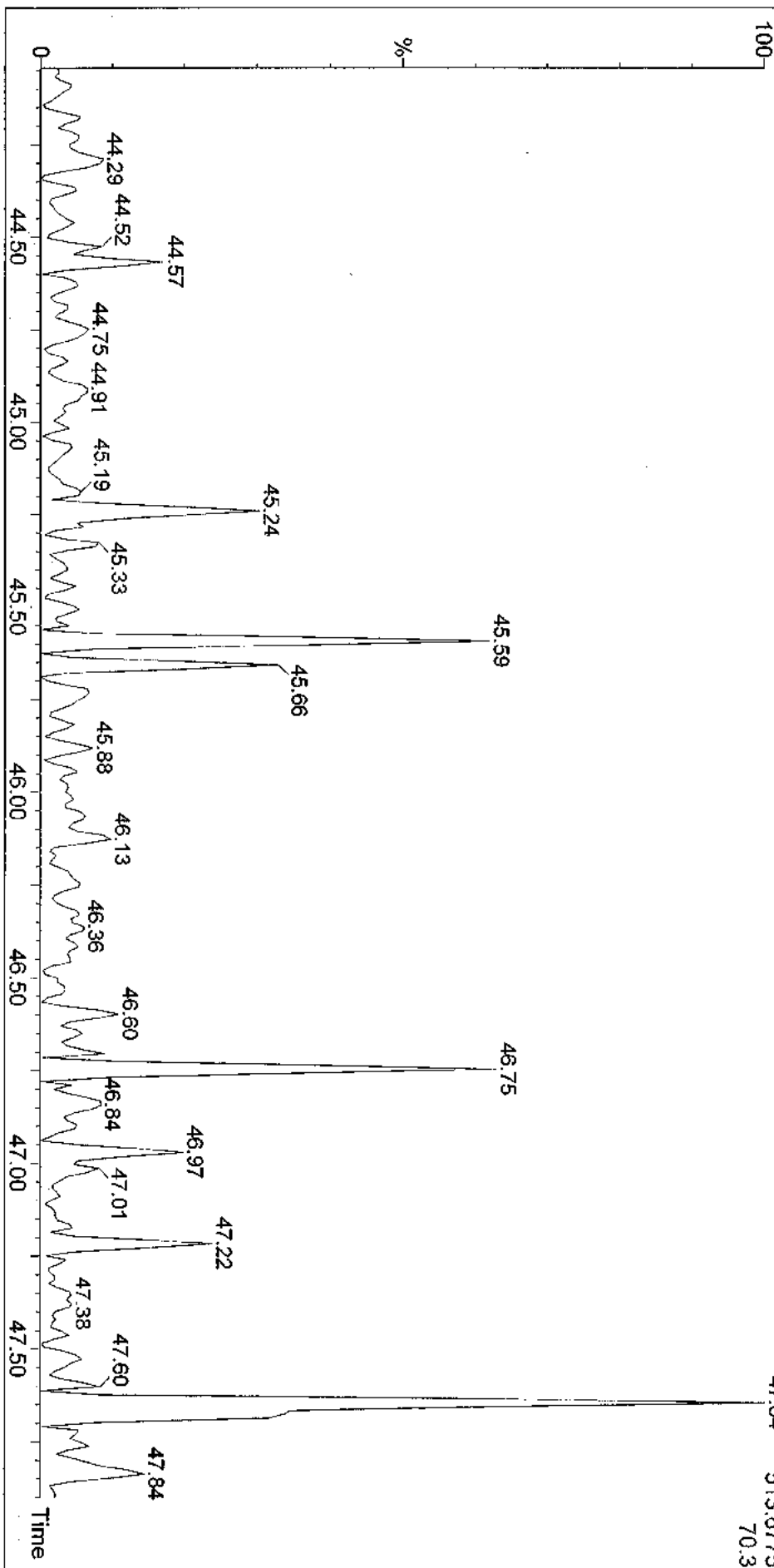
09-Dec-2021

23:57:21

5: Voltage SIR 8 Channels EI+

47.64 513.6775

70.3



Quantify Sample Report

Sample List: C:\MASSLINE\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLINE\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B04
 Text: BLANK

53: Function: 5 Lockmass

BLANK

WS# 77162477716238, S

M3211209B04 Sm (SG, 2x2)

AutoSpec Ultima - M536

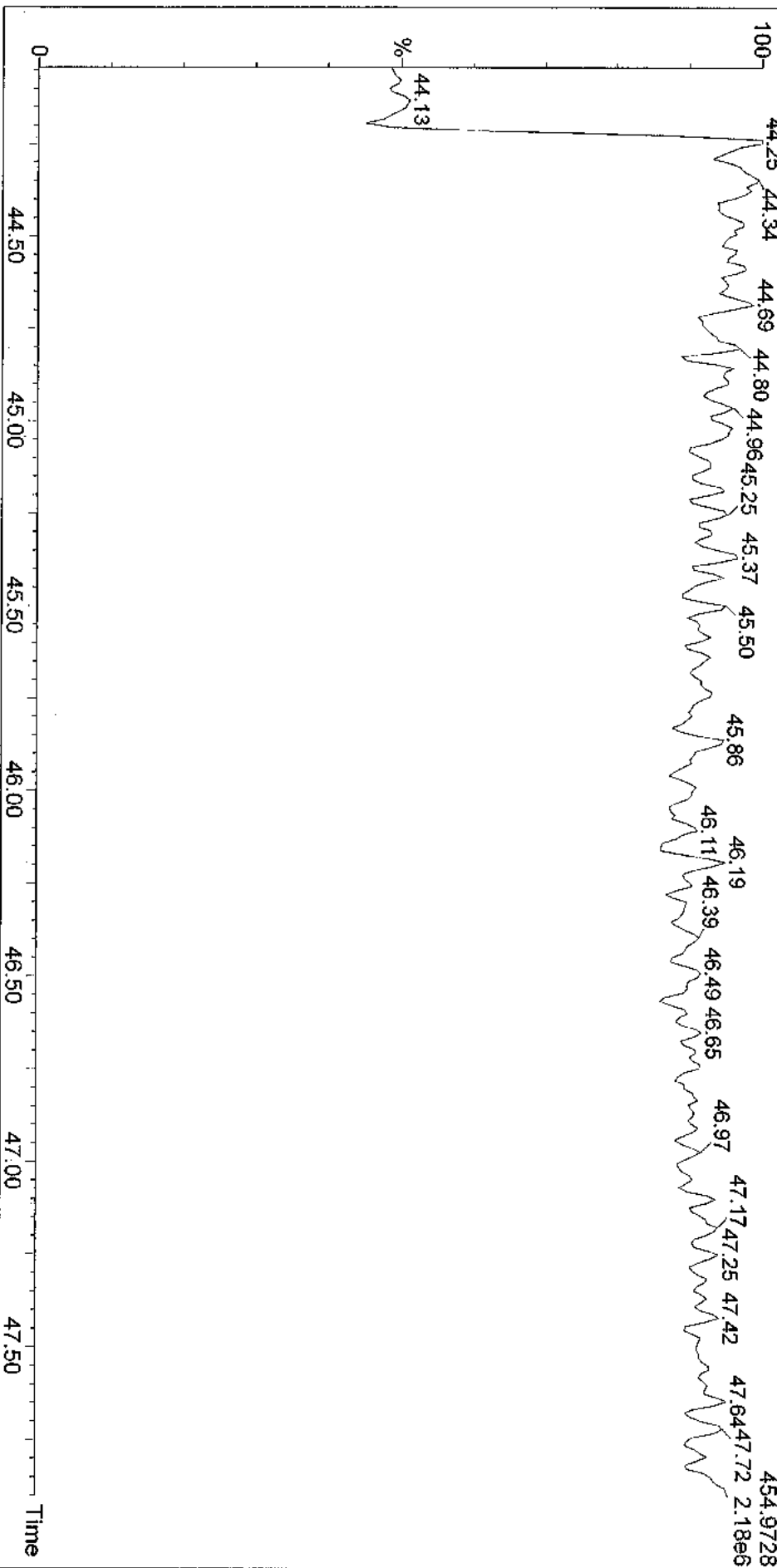
09-Dec-2021

23:57:21

5: Voltage SIR 8 Channels EI+

454.9728

47.64772 2.18e6



M3211210A-1613

Bottle	File Name	File Text	Sample ID	MS File
19	M3211210A01E	db5_win_perf/CS3	Lot CS3WT1020	1613_ult3
1	M3211210A02	SOLVENT	SOLVENT	1613_ult3
2	M3211210A03	S211205A	SOIL SYRINGE PROOF	1613_ult3
3	M3211210A04	S211205B	SOIL SYRINGE PROOF	1613_ult3
4	M3211210A05	SYSTEM BLANK	WS# 7716247/7716238, S	1613_ult3
5	M3211210A06	REZ800-01R	7716247: APEX_PDI-CORE-03-B-04*, S	1613_ult3
6	M3211210A07	REZ801-01R	7716247: APEX_PDI-CORE-03-B-05*, S	1613_ult3
7	M3211210A08	REZ812-01R	7716247: APEX_PDI-CORE-103-B-0*, S	1613_ult3
8	M3211210A09	REZ817-01R	7716247: APEX_PDI-CORE-04-B-05*, S	1613_ult3
9	M3211210A10	REZ818-01R	7716247: APEX_PDI-CORE-04-B-06*, S	1613_ult3
10	M3211210A11	REZ849-01R	7716247: APEX_PDI-CORE-05-B-05*, S	1613_ult3
11	M3211210A12	REZ850-01R	7716247: APEX_PDI-CORE-05-B-06*, S	1613_ult3
12	M3211210A13	REZ851-01R	7716247: APEX_PDI-CORE-04A-05*, S	1613_ult3
13	M3211210A14	REZ852-01R	7716247: APEX_PDI-CORE-04A-06*, S	1613_ult3
19	M3211210A15	db5_win_perf/CS3	Lot CS3WT1020	1613_ult3

exp M3211122A-1614

NAME
NO

M3211210A-1613

NO

WS# : 7716247

Page #: 1/2



Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Thursday, December 9, 2021

Assigned to : Angel Guerrero

Test Code : DF1613-S

Instrument Id:

Test Description : To determine Dioxins and Furans by High
Resolution Gas Spectrophotometer. (EPA 1613B)

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	MTRX SPK	0	1613P REZ818-01										2021/11/24
	MTRX SPK	1	1613P REZ818-01										2021/11/24
	SPIKE		1613P										2021/11/24
	BLANK												2021/11/24
C1U8090	QZV226-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
C1U8090	QZV229-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
C1U8090	QZV230-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
C1U8090	QZV231-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/18 23:00		2021/11/24
C1X2301	REZ784-01R		PDI-CORE-29E-02*						1	2021/12/08	2021/12/01 23:00		2021/11/24
C1X2301	REZ785-01R		PDI-CORE-129E-0*						1	2021/12/08	2021/12/01 23:00		2021/11/24
C1X2305	REZ798-01R		PDI-CORE-01-A-07*						1	2021/11/18	2021/12/01 23:00		2021/11/24
C1X2305	REZ799-01R		PDI-CORE-01-A-08*						1	2021/11/18	2021/12/01 23:00		2021/11/24
C1X2305	REZ800-01R		PDI-CORE-03-B-04*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2305	REZ801-01R		PDI-CORE-03-B-05*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2305	REZ812-01R		PDI-CORE-103-B-0*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2305	REZ817-01R		PDI-CORE-04-B-05*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2305	REZ818-01R		PDI-CORE-04-B-06*						1	2021/11/19	2021/12/01 23:00		2021/11/24
C1X2314	REZ849-01R		PDI-CORE-05B-05*						1	2021/11/20	2021/12/01 23:00		2021/11/24
C1X2314	REZ850-01R		PDI-CORE-05B-06*						1	2021/11/20	2021/12/01 23:00		2021/11/24
C1X2314	REZ851-01R		PDI-CORE-04A-05*						1	2021/11/20	2021/12/01 23:00		2021/11/24
C1X2314	REZ852-01R		PDI-CORE-04A-06*						1	2021/11/20	2021/12/01 23:00		2021/11/24

Remarks:

Samples extracted by:

Truc Vu

Instrumentation performed by:

AGU

Date: 21-12-10

Calculations performed by:

EG1

Date: 21/12/15

Validated by:

MM

Date: 21/12/15

Job No.	Rep	Client Name	Contact	Client Tier	National
MC1U8090	CC4	Bureau Veritas Laboratories	Debbie Nordbruket	Tier 4 (Enviro.)	Bureau Veritas 134
	Offsite job C1U8090 was created on Thursday, October 21, 2021 in LimsEasternDb with offsite code ONTV Project #: VANENV job# C178934				
GC1X2301	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1K0374				
GC1X2305	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0786				
GC1X2314	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0851				

Surrogates/Spikes	Method Spike	Spikes	Samples

Sample	Preparation Remarks

Sample	Instrumentation Remarks

WS# : 7716238

Page #: 1/2



Report Name : Worksheet - (Liquids and Solids)

Assignment Date : Wednesday, November 24, 2021

Assigned to : Truc Vu

Test Code : PREP1613-S

Instrument Id:

Test Description : Preparation of soil by 1613

Job Number	Sample Number	D	Sample ID	F	% Moisture	Wt or Vol	Final Vol	DF or AF	# Cont	Expiry Date	Test DeadLine	Criteria	Extract Date
	MTRX SPK	0	REZ818-01										2021/11/24
	MTRX SPK	1	REZ818-01										2021/11/24
	SPIKE												2021/11/24
	BLANK												2021/11/24
C1U8090	QZV226-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
C1U8090	QZV229-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
C1U8090	QZV230-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
C1U8090	QZV231-01R		OFFSITE # AII44*						1	2021/11/16	2021/11/15 18:00		2021/11/24
C1X2301	REZ784-01R		PDI-CORE-29E-02-*						1	2021/12/08	2021/11/23 18:00		2021/11/24
C1X2301	REZ785-01R		PDI-CORE-129E-0*						1	2021/12/08	2021/11/23 18:00		2021/11/24
C1X2305	REZ798-01R		PDI-CORE-01-A-07*						1	2021/11/18	2021/11/25 18:00		2021/11/24
C1X2305	REZ799-01R		PDI-CORE-01-A-08*						1	2021/11/18	2021/11/25 18:00		2021/11/24
C1X2305	REZ800-01R		PDI-CORE-03-B-04*						1	2021/11/19	2021/11/25 18:00		2021/11/24
C1X2305	REZ801-01R		PDI-CORE-03-B-05*						1	2021/11/19	2021/11/25 18:00		2021/11/24
C1X2305	REZ812-01R		PDI-CORE-103-B-0*						1	2021/11/19	2021/11/25 18:00		2021/11/24
C1X2305	REZ817-01R		PDI-CORE-04-B-05*						1	2021/11/19	2021/11/25 18:00		2021/11/24
C1X2305	REZ818-01R		PDI-CORE-04-B-06*						1	2021/11/19	2021/11/25 18:00		2021/11/24
C1X2314	REZ849-01R		PDI-CORE-05B-05-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
C1X2314	REZ850-01R		PDI-CORE-05B-06-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
C1X2314	REZ851-01R		PDI-CORE-04A-05-*						1	2021/11/20	2021/11/23 18:00		2021/11/24
C1X2314	REZ852-01R		PDI-CORE-04A-06-*						1	2021/11/20	2021/11/23 18:00		2021/11/24

Remarks:

Samples extracted by:

Truc Vu

Instrumentation performed by:

Date:

Calculations performed by:

Date:

Validated by:

Date:

Job No.	Rep	Client Name	Contact	Client Tier	National
MC1U8090	CC4	Bureau Veritas Laboratories	Debbie Nordbruket	Tier 4 (Enviro.)	Bureau Veritas 134
	Offsite job C1U8090 was created on Thursday, October 21, 2021 in LimsEasternDb with offsite code ONTV Project #: VANENV job# C178934				
GC1X2301	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1K0374				
GC1X2305	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0786				
GC1X2314	LDR	Apex Laboratories	Darrell Auvil	Tier 3 (Enviro.)	
	DF1613-s, level 4 data package needed Project #: A1J0851				

Surrogates/Spikes	Method Spike	Spikes	Samples

Sample	Preparation Remarks

Sample	Instrumentation Remarks

WS NO HR 9014484-03

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11/11/2011

1

1

15 SEPTEMBER 2006

on back

729 Labels checked

02 c

1001

729

02 c

LAB ID Number	Client Name	Sample Identity	Init. Wt (g)	Dry Weight (g)	Acid Backwash	Final Vol.	Split	Sep. Furn.	Alpin Filter	Flask	Soxhlet	Rotovap ID #
Blank Spike		Blank	20.0024							D76	D332	
Blk. Dup. Spike		Spike	20.0235							D106	D354	
1		MS(REZ 818-OIR)	20.0093							D47	D339	
2		MSD(REZ 818-OIR)	20.0067							D74	D260	
3	CU8090	QZV 226-OIR	20.0169							D83	D358	
4		QZV 229-OIR	20.0325							D113	D343	
5		QZV 230-OIR	20.0182							FM107	D347	
6		QZV 231-OIR	20.0413							D114	D335	
7	CU8301	Apex Labs	20.0069							D103	D391	
8		REZ 785-OIR	20.0492							FM49	D62	
9	CU8305	REZ 798	20.0049							R27	D345	
10		REZ 799	20.0017							D309	D346	
11		REZ 800	20.0476							D82	D337	
12		REZ 801	20.0164							D116	D155	
13		REZ 812	20.0070							D85	D340	
14		REZ 817	20.0064							D108	D337	
15		REZ 818	20.0227							D80	D335	
16	CU8314	REZ 845	20.0278							D112	D321	
17		REZ 850-OIR	20.0022							D49	D268	
18		REZ 851-OIR	20.0263							D40	D274	
19		REZ 852-OIR	20.0191							D7A	D356	
20												

Bureau Veritas Laboratories

503 of 729

Bureau Veritas Laboratories

archived (Sml) ^{or} Double spike? ^{or} Ez cleanup (Sml)

HRMS Sample Information Transfer

Analyst: Jinc Ou (Panda)

Date: 2/11/24

WS #: 20211124-03 / Prepl613-S

Extraction Status: Burner turned on @ 4:30 pm. TW-2/11/24

Roto-Vap Status: completed for all samples. YLC 2021/11/26

1ml iso-octane was added for all samples. YLC 2021/11/26

Transferred all samples to 40ml vials. PD4 2/11/27

Methods Requiring Clean up Spike	
Method 1613 - S/W/TI	
Method 1668 - S/W/TI	
Method 23 - Air	
Clean up spike added?	Yes; to all samples Initial/Date MSW 2/11/29

2x Split done for the samples and ready for cleanup. MSW 2/11/29

Cleanup Status: Ran all samples on EZ. MSW 2/11/29
EZ 123 Clean up

msw 2/11/29
Reacti-Vial: was done for all samples. MSW 2/11/29

Completion Date: November 29, 2021

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 2
Worksheet #: HR-2021/11/29-03 (Prep 1613-S)

<u>SOLVENTS</u>	<u>Lot #</u>
Hexane (Fisher H303-4)	<u>214235</u>
DCM (Fisher D151-4)	<u>214517</u>
Toluene (Fisher T290-4)	<u>212022</u>

<u>FMS COLUMNS</u>	<u>Lot #</u>
Extra Large (ACIDIC XL MIX EZ-P)	<u>N/A</u>
Jumbo Silica (EZHI-ACD-020)	<u>HDP139</u>
Classical Silica (ACID 6g EZ-P)	<u>N/A</u>
Basic Alumina (EZHI-ALU-006)	<u>LLP115</u>
Carbon/Celite (EZHI-CLA 034)	<u>CP118</u>

CELL #	Sample Info
1	BLANK
2	SPIKE
3	Matrix Spike
4	Matrix Spike Dup.
5	QZV226
6	QZV229

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW

Date: 2021/11/29

EZPrep #: 1

Worksheet #: MR-2021-11-24-03 (Prep 16135)

SOLVENTS

Lot

Hexane (Fisher H303-4) 214235

DCM (Fisher D151-4) 214517

Toluene (Fisher T290-4) 212022

FMS COLUMNS

Lot

Extra Large (ACIDIC XL MIX EZ-P) N/A

Jumbo Silica (EZHI-ACD-020) MDP139

Classical Silica (ACID 6g EZ-P) N/A

Basic Alumina (EZHI-ALU-006) LLP115

Carbon/Celite (EZHI-CLA 034) CP118

CELL #	Sample Info
1	QZV230
2	QZV231
3	REZ784
4	REZ785
5	REZ798
6	REZ799

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW
Date: 2021/11/29
EZPrep #: 3
Worksheet # HR-2021-11-24-03 / Prep 1613.5

SOLVENTS

Lot

Hexane (Fisher H303-4) 214235
~~LALEPON~~
DCM (Fisher D151-4) 106435
~~MSW~~
Toluene (Fisher T290-4) 212022

FMS COLUMNS

Lot

Extra Large (ACIDIC XL MIX EZ-P) N/A
Jumbo Silica (EZHI-ACD-020) HDP139
Classical Silica (ACID 6g EZ-P) N/A
Basic Alumina (EZHI-ALU-006) LLP115
Carbon/Celite (EZHI-CLA 034) CP18

CELL #	Sample Info
1	REZ 800
2	REZ 801
3	REZ 812
4	REZ 817
5	REZ 818
6	REZ 849

Comments:

FMS EZPrep 123 Clean-up Form

Bureau Veritas
CAM FCD-00904/4
Tab 1 Page 1 of 1

Prepared by: MSW

Date: 2021/11/29

EZPrep #: 1

Worksheet #: HR-2021-11-24-03 / Prep 16135

SOLVENTS

Lot

Hexane (Fisher H303-4) 214235

DCM (Fisher D154-4) 106435

Toluene (Fisher T290-4) 212022

FMS COLUMNS

Lot

Extra Large (ACIDIC XL MIX EZ-P) N/A

Jumbo Silica (EZHI-ACD-020) HD2139

Classical Silica (ACID 6g EZ-P) N/A

Basic Alumina (EZHI-ALU-006) LLP115

Carbon/Celite (EZHI-CLA 034) CP118

CELL #	Sample Info
1	RE2850
2	RE2851
3	RE2852
4	N/A
5	N/A
6	N/A

Comments:

Ultra Trace - Worksheet Validation Checklist			
Prep Worksheet # <u>112021124-03</u>		Instrument Worksheet #	
Testcode: <u>1613-S</u>		Testcode:	
Sample Preparation		yes	no
1	Samples extracted within hold time	✓	
2	Client sample ID verified against Lab ID		✓
3	Job Remarks reviewed on 2nd page of worksheet & testcodes reviewed for spiking		✓
4	Method required QC processed with samples	✓	
5	Sample, duplicate, matrix spike appear similar, initial sample as well as final extract	✓	
6	Sample weight or initial volume and extract final volume, aliquot factor clearly recorded.	✓	
7	If performed any additional dilution clearly recorded		✓
8	Spiking solutions valid (haven't expired), ID and volume used clearly identified on worksheet	✓	
9	Spiking process witnessed and signed off	✓	
10	Sample prep deviations documented on Bench Level Deviation Form (CAM FCD-00328)	✓	✓
11	Tracking sheets completed	✓	
Prepared by: <u>TRJ-2111184</u> Date: <u>211124</u>		Reviewed by: <u>TRJ</u> <u>211129</u>	
Comments:			
Primary review by the analyst - 100 % analysis review		yes	no
1	System performance check acceptable (if applicable)	✓	
2	Analysis set-up meets method criteria	✓	
3	Tuning and correct calibration used - criteria meets method criteria	✓	
4	SQC/Control Charts updated, analysis in statistical/method control		✓
5	Internal area counts checked (if applicable)	✓	
6	LCS, SRM are within acceptance criteria		✓
7	Surrogate Recovery(s) is within acceptance criteria	✓	
8	Method Blank meets acceptance criteria	✓	
9	Matrix Spike recovery(s) meets acceptance criteria	✓	
10	Duplicate precision meets acceptance criteria		✓
11	QC is documented on the run logs		✓
12	Runs checked for carryover	✓	
13	Prep log / worksheet(s) are present, signed / dated by a prep / instrument analysts	✓	
14	Initial weights, splits, impinger volumes (where applicable) are documented	✓	
15	Samples above calibration range diluted and reanalyzed	✓	
16	Dilution factors (where justified) have been checked for correctness and entered		✓
17	Analytical observations/anomalies documented in LIMS	✓	
18	If corrective actions were applied they are documented, initialed & dated	✓	
19	Transferred data is approved in LIMS for correctness	✓	
20	Sample Prep section (above) reviewed and verified.	✓	
21	Data package assembled (where required)		✓
Data Approved by: <u>EG1</u> Date: <u>211215</u>			
Comments:			
Secondary Supervisor/Qualified Data Review Staff		yes	no
1	Repeats documented and referenced		✓
2	Method and sample deviations noted, anomalies described (if applicable)		✓
3	Data and QC validated in LIMS	✓	
4	Manual integration - before & after data with a reason included, initialed & dated	✓	
5	Random calculation checked	✓	
6	Worksheet(s) and sample prep sheets (FCDs) signed and dated	✓	
7	Data Package (if required) checked for completeness	✓	
Validated & Status Checked by: <u>mm</u> Date: <u>211215</u>			
Comments:			

Note: Primary and Secondary Internal Data Review Check must be performed by a different person



4.3 Sample Chromatograms

**Bureau Veritas Canada (2019)
Inc.
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.bvlabs.com**

File: M3211209B13

Sample

Acq: 2021/10/12 7:39

Sam: REZ798-01R

Com: REZ798-01R

Sam: 20.0049

Run

File: 1127A_1613_Spt

7716247: APEX_FDI-CORE-01-A-07', S

UI Fac: 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs. Resp.	PE	Code	TEF	198 Max T	LOD (pg)	S/N	Mod. User	RRF Mean	% Rec
1	2,3,7,8-Cl4-Dibenzofuran	304	24.62	6087	0.8	13715	-0.14221	RT>35	-0.014		-0.14221	*	Op-O	0.97161	-
		306	24.57	7628	no							+			
2	1,2,3,7,8-Cl5-Dibenzofuran	340	31.94	2329	1.7	3696	0.342749		0.017		-0.149988	5	xL	0.979466	-
		342	31.93	1367	OK							5			
3	2,3,4,7,8-Cl5-Dibenzofuran	340	33.60	6203	1.61	10063	0.725922		0.363		-0.134809	16		1.089756	-
		342	33.58	3860	yes							19			
4	1,2,3,4,7,8-Cl6-Dibenzofuran	374	38.09	9638	1.21	17620	1.456643		0.146		-0.146672	22		1.159483	-
		376	38.11	7982	yes							21			
5	1,2,3,6,7,8-Cl6-Dibenzofuran	374	38.22	8038	1.13	15132	1.227899		0.123		-0.155359	18		1.094648	-
		376	38.25	7094	yes							20			
6	2,3,4,6,7,8-Cl6-Dibenzofuran	374	38.89	7330	1.34	12785	0.795905		0.080		-0.14454	18		1.176583	-
		376	38.89	5455	yes							16			
7	1,2,3,7,8,9-Cl6-Dibenzofuran	374	-	0	-	0	-0.154981		-0.015		-0.154981	-		1.097314	-
		376	39.70	0	-							-			
8	1,2,3,4,6,7,8-Cl7-Dibenzofuran	408	41.45	114728	1.06	223231	20.85149		0.209		-0.149814	378		1.208367	-
		410	41.43	108503	yes							369			
9	1,2,3,4,7,8,9-Cl7-Dibenzofuran	408	42.74	2297	1.13	4375	0.425196		0.004		-0.153804	7		1.177018	-
		410	42.71	2028	yes							7			
10	1,2,3,4,6,7,8,9-Cl8-Dibenzofuran	442	45.44	26972	0.92	56387	9.644637		0.010		-0.118084	224		1.238902	-
		444	45.41	29414	yes							201			
11	2,3,7,8-Cl4-Dibenzo-p-dioxin	320	25.64	592	0.63	1536	-0.14734		-0.147		-0.14734	*	Op-O	1.240957	-
		322	25.73	945	no							+			
12	1,2,3,7,8-Cl5-Dibenzo-p-dioxin	356	34.32	2019	1.36	3508	0.482095		0.241		-0.144771	8	xL	1.116262	-
		358	34.31	1489	OK							10			
13	1,2,3,4,7,8-Cl6-Dibenzo-p-dioxin	390	39.09	790	1.18	1460	0.187654		0.019		-0.158369	3		1.111453	-
		392	39.05	670	yes							3			
14	1,2,3,6,7,8-Cl6-Dibenzo-p-dioxin	390	39.18	4269	1.23	7745	0.921474		0.092		-0.15721	17		1.119648	-
		392	39.17	3476	yes							17			
15	1,2,3,7,8,9-Cl6-Dibenzo-p-dioxin	390	39.52	3257	1.33	5709	0.706031	ERGED PEA	0.071		-0.15753	11		1.117372	-
		392	39.50	2452	yes							8			
16	1,2,3,4,6,7,8-Cl7-Dibenzo-p-dioxin	424	42.39	24966	0.98	50566	7.174642		0.072		-0.131746	142		1.084762	-
		426	42.36	25600	yes							141			
17	1,2,3,4,6,7,8,9-Cl8-Dibenzo-p-dioxin	458	45.33	120319	0.85	262783	52.84955		0.053		-0.129386	1083		1.054514	-
		460	45.29	142464	yes							1103			
18	2,3,7,8-TCDF-13C12	316	24.57	1272517	0.79	2880441	1828.583				0.845	5067		2.144584	91
		318	24.57	1607924	yes							8368			
19	1,2,3,7,8-P5CDF-13C12	352	31.90	1367678	1.65	2195413	1894.874				2.228	1693		1.577374	95
		354	31.89	827735	yes							2044			
20	2,3,4,7,8-P5CDF-13C12	352	33.58	1588066	1.66	2543649	2257.005				2.291	2500		1.534347	113
		354	33.57	955584	yes							2978			
21	1,2,3,4,7,8-H6CDF-13C12	384	38.08	723440	0.53	2085998	1984.984				3.343	1173		1.332773	99
		386	38.09	1362559	yes							2214			
22	1,2,3,6,7,8-H6CDF-13C12	384	38.21	784522	0.54	2251169	1989.426				3.104	1240		1.435092	99
		386	38.20	1466648	yes							2337			
23	2,3,4,6,7,8-H6CDF-13C12	384	38.88	949602	0.53	2729974	2586.879				3.329	1723		1.338387	129
		386	38.87	1780372	yes							3235			
24	1,2,3,7,8,9-H6CDF-13C12	384	39.72	679144	0.54	1929911	1956.445				3.561	1118		1.251033	98
		386	39.69	1250767	yes							2067			
25	1,2,3,4,6,7,8-H7CDF-13C12	418	41.44	578211	0.49	1771504	1774.126				2.371	1637		1.266359	89
		420	41.41	1193294	yes							3175			
26	1,2,3,4,7,8,9-H7CDF-13C12	418	42.73	560914	0.48	1727726	2060.783				2.824	1519		1.063266	103
		420	42.71	1166812	yes							3031			
27	2,3,7,8-TCDD-13C12	332	25.64	675121	0.81	1505902	1768.874				1.345	3545		1.159041	88
		334	25.70	830781	yes							3727			
28	1,2,3,7,8-P5CDD-13C12	368	34.31	819046	1.67	1308156	2167.848				1.635	5325		0.821541	108
		370	34.29	489110	yes							2604			
29	1,2,3,4,7,8-H6CDD-13C12	402	39.07	795895	1.32	1399711	1948.935				3.277	2258		0.910836	97
		404	39.06	603716	yes							1550			
30	1,2,3,6,7,8-H6CDD-13C12	402	39.17	842810	1.28	1500967	2000.076				3.136	2262		0.951752	100
		404	39.15	658157	yes							1599			
31	1,2,3,4,6,7,8-H7CDD-13C12	436	42.38	668015	1.06	1299121	1749.888				2.801	2571		0.941539	87
		438	42.36	631106	yes							1425			
32	OCDD-13C12	470	45.32	941852	1	1885633	3169.194				1.696	4160		0.754584	79
		472	45.29	943781	yes							5100			
33	13C-1,2,3,4-TCDD	332	25.34	671256	0.84	1469032	31.693				0.025	3773		46352.42	2
		334	25.34	797775	yes							3841			
34	13C-1,2,3,7,8,9-HxCDD	402	39.51	888470	1.29	1576997	29.665				0.044	2384		53159.29	1
		404	39.49	688527	yes							1662			
35	2,3,7,8-TCDD-37Cl4	328	25.66	195416	1	390831	211.323				0.835	717		2.517916	100
		328	25.62	195416	yes							717			
36	Total Tetrachlorodibenzofurans	304	-	0	-	0	11.35424			8	-0.14221	-		0.97161	-
		306	26.00	0	-							-			
37	Total Tetrachlorodibenzo-p-dioxins	320	-	0	-	0	0.894081			2	-0.14734	-		1.240957	-
		322	26.00	0	-							-			
38	Total Pentachlorodibenzofurans	340	-	0	-	0	34.33833			8	-0.141994	-		1.034611	-

[illegible]

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	PE	S/N	Mod.User	RRF	Mean	%Rec
36	Totals Tetra-Furans	304	21.60	2595	0.74	6100	0.435793	9		0.97161		-
		306	26.00	3505	yes			9				
36	Totals Tetra-Furans	304	21.85	15228	0.77	35113	2.508685	53		0.97161		-
		306	26.00	19885	yes			55				
36	Totals Tetra-Furans	304	22.19	855	0.71	2055	0.146764	3		0.97161		-
		306	26.00	1200	no			3				
36	Totals Tetra-Furans	304	22.30	459	0.29	2041	0.145864	3		0.97161		-
		306	26.00	1582	no			4				
36	Totals Tetra-Furans	304	22.56	10510	0.78	24052	1.718379	34		0.97161		-
		306	26.00	13543	yes			33				
36	Totals Tetra-Furans	304	22.87	20122	0.75	46909	3.351479	60		0.97161		-
		306	26.00	26788	yes			62				
36	Totals Tetra-Furans	304	23.31	9502	0.79	21490	1.535324	29		0.97161		-
		306	26.00	11987	yes			27				
36	Totals Tetra-Furans	304	23.62	670	1.45	1132	0.08088	2		0.97161		-
		306	26.00	462	no			2				
36	Totals Tetra-Furans	304	24.09	3333	0.81	7461	0.533069	10		0.97161		-
		306	26.00	4127	yes			11				
36	Totals Tetra-Furans	304	24.18	1835	0.82	4063	0.291651	5	xl	0.97161		-
		306	26.00	2228	OK			5				
1	2,3,7,8-TCDF	304	24.62	6087	0.8	13715	0.97986	15		0.97161		-
		306	24.57	7628	no			14				
36	Totals Tetra-Furans	304	24.62	6087	0.8	13715	0.97986	15		0.97161		-
		306	24.57	7628	yes			14				
36	Totals Tetra-Furans	304	26.48	4617	0.79	10457	0.747117	12		0.97161		-
		306	26.00	5841	no			12				
36	Totals Tetra-Furans	304	26.94	4041	0.78	9208	0.657839	12		0.97161		-
		306	26.00	5167	no			11				

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg		S/N	Mod.User	RRF	Mean	%Rec
37	Totals Tetra-Dioxins	320	22.48	1272.04	0.77	2924.04	0.31444	Tetra-Dioxins NDR	8	xL	1.240957	-	
		322	26.00	1652	OK				7				
37	Totals Tetra-Dioxins	320	22.87	883	0.78	2019	0.219047		5		1.240957	-	
		322	26.00	1136	yes				4				
37	Totals Tetra-Dioxins	320	23.19	417	0.75	970	0.103875		3		1.240957	-	
		322	26.00	554	no				3				
37	Totals Tetra-Dioxins	320	24.05	2895	0.84	6337	0.678034		10		1.240957	-	
		322	26.00	3442	yes				9				
37	Totals Tetra-Dioxins	320	24.89	520	1.03	1024	0.109579		3		1.240957	-	
		322	26.00	504	no				3				
11	2,3,7,8-TCDD	320	25.64	592	0.63	1536	0.16136		3		1.240957	-	
		322	25.73	945	no				4				
37	Totals Tetra-Dioxins	320	26.15	481	0.76	1117	0.119471		3		1.240957	-	
		322	26.00	635	no				2				

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg		S/N	Mod.User	RRF	Mean	%Rec
38	Totals Penta-Furans	340	27.74	141537	1.59	230774	18.78436		358		1.034611	-	
		342	34.00	89237	yes				348				
38	Totals Penta-Furans	340	29.99	60867	1.58	99338	8.085838		107		1.034611	-	
		342	34.00	38471	yes				108				
38	Totals Penta-Furans	340	30.31	1296	2.57	1801	0.146596		5		1.034611	-	
		342	34.00	504	no				3				
38	Totals Penta-Furans	340	30.88	4733	1.3	8365	0.680888	DPE	12		1.034611	-	
		342	34.00	3632	no				16				
38	Totals Penta-Furans	340	31.14	10495	1.33	18385	1.496488		24		1.034611	-	
		342	34.00	7890	yes				29				
38	Totals Penta-Furans	340	31.25	3875	1.44	6557	0.533722		9	xl	1.034611	-	
		342	34.00	2682	OK				9				
38	Totals Penta-Furans	340	31.29	1769	1.11	3366	0.273983		8		1.034611	-	
		342	34.00	1597	no				8				
2	1,2,3,7,8-PeCDF	340	31.94	2329	1.7	3696	0.342749		5	xl	0.979466		
		342	31.93	1367	OK				5				
38	Totals Penta-Furans	340	32.66	13231	1.45	22341	1.818495	DPE	33		1.034611	-	
		342	34.00	9110	no				33				
3	2,3,4,7,8-PeCDF	340	33.60	6203	1.61	10063	0.725922		16		1.089756	-	
		342	33.58	3860	yes				19				

38	Totals Penta-Furans	340	33.92	29156	1.55	47905	3.899335	80	1.034611	-
		342	34.00	18749	yes			84		
38	Totals Penta-Furans	340	35.28	1049	0.89	2224	0.181028	6	1.034611	-
		342	34.00	1175	no			7		
38	Totals Penta-Furans	340	35.36	3691	1.77	5773	0.463906	8	xl	1.034611
		342	34.00	2082	OK			7		-

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
39	Totals Penta-Dioxins	356	30.31	-8213	1.55	-13511.71	-1.856878	29	xl	1.116262	-
		358	34.00	-5298.71	OK			64			
39	Totals Penta-Dioxins	356	31.39	466	0.92	973	0.133167	2		1.116262	-
		358	34.00	506	no			2			
39	Totals Penta-Dioxins	356	32.04	3453	1.75	5423	0.742618	10		1.116262	-
		358	34.00	1970	yes			11			
39	Totals Penta-Dioxins	356	32.40	2910	1.68	4640	0.637863	10	xl	1.116262	-
		358	34.00	1730	OK			8			
39	Totals Penta-Dioxins	356	32.79	1562	1.43	2654	0.364732	6	xl	1.116262	-
		358	34.00	1092	OK			7			
39	Totals Penta-Dioxins	356	33.14	549	1.56	901	0.12327	2		1.116262	-
		358	34.00	352	no			2			
39	Totals Penta-Dioxins	356	33.36	1678	1.38	2923	0.4017	4	xl	1.116262	-
		358	34.00	1227	OK			6			
12	1,2,3,7,8-PeCDD	356	34.32	2019	1.36	3508	0.482096	8	xl	1.116262	-
		358	34.31	1489	OK			10			
39	Totals Penta-Dioxins	356	35.15	816	1.69	1298	0.177656	3		1.116262	-
		358	34.00	482	yes			3			

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
40	Totals Hexa-Furans	374	36.75	18262	1.26	32767	2.578414	40		1.132007	-
		376	39.50	14505	yes			40			
40	Totals Hexa-Furans	374	36.94	75676	1.34	132369	10.41603	161		1.132007	-
		376	39.50	56692	yes			147			
40	Totals Hexa-Furans	374	37.36	1179	1.28	2100	0.165248	3		1.132007	-
		376	39.50	921	yes			3			
40	Totals Hexa-Furans	374	37.58	81849	1.27	146139	11.49959	184		1.132007	-
		376	39.50	64290	yes			184			
40	Totals Hexa-Furans	374	37.80	3469	1.4	5946	0.467887	1	xl	1.132007	-
		376	39.50	2477	OK			7			
4	1,2,3,4,7,8-HxCDF	374	38.09	9638	1.21	17620	1.456643	22		1.159483	-
		376	38.11	7982	yes			21			
5	1,2,3,5,7,8-HxCDF	374	38.22	8038	1.13	15132	1.227899	18		1.094648	-
		376	38.25	7094	yes			20			
40	Totals Hexa-Furans	374	38.81	11439	1.28	20350	1.601329	27		1.132007	-
		376	39.50	8912	yes			24			
6	2,3,4,6,7,8-HxCDF	374	38.89	7330	1.34	12785	0.795905	18		1.176583	-
		376	38.89	5455	yes			16			
40	Totals Hexa-Furans	374	39.81	2644	1.14	4963	0.390535	7		1.132007	-
		376	39.50	2319	yes			8			

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.51	10108	1.26	18146	2.267701	32		1.108192	-
		392	39.50	8039	yes			30			
41	Totals Hexa-Dioxins	390	38.13	1920	1.11	3647	0.45476	6		1.108192	-
		392	39.50	1728	yes			8			
41	Totals Hexa-Dioxins	390	38.42	18152	1.23	32952	4.108923	57		1.108192	-
		392	39.50	14801	yes			57			
13	1,2,3,4,7,8-HxCDD	390	39.09	790	1.18	1460	0.187654	3		1.111453	-
		392	39.05	670	yes			3			
14	1,2,3,6,7,8-HxCDD	390	39.18	4269	1.23	7745	0.921474	17		1.119648	-
		392	39.17	3476	yes			17			
15	1,2,3,7,8,9-HxCDD	390	39.52	3257	1.33	5709	0.706091	11		1.093474	-
		392	39.50	2452	yes			8			

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
8	1,2,3,4,6,7,8-HpCDF	408	41.45	114728	1.06	223231	20.85149	378		1.208267	-
		410	41.43	108503	yes			369			
42	Totals Hepta-Furans	408	41.67	464	1.39	799	0.076448	2		1.192692	-
		410	42.50	335	no			2			
42	Totals Hepta-Furans	408	41.81	75566	1.09	145121	13.88509	254		1.192692	-
		410	42.50	69566	yes			243			
9	1,2,3,4,7,8,9-HpCDF	408	42.74	2297	1.13	4325	0.425196	7		1.177018	-
		410	42.71	2028	yes			7			

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
43	Totals Hepta-Dioxins	424	41.74	24950	1.02	49420	7.051853	146		1.084767	-

		426	42.50	24470	yes			153	
16	1,2,3,4,6,7,8-HpCDD	424	42.39	24986	0.98	50566	7.174642	142	1.084762 -
		426	42.36	25600	yes			141	
43	Totals Hepta-Dioxins	424	42.73	522	1.37	902	0.128709	3	1.084762 -
		426	42.50	380	no			1	

Quantity Sample Report

Sample Name: C:\MSDCHEM\DATA\PRO\SEMPCD8\M3211209B 1413
 Sample ID: M3211209B 1413
 Date: 10/13/2021
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: RM798-01F

36: Total: Tetra-Furans

AutoSpec Ultima - M536

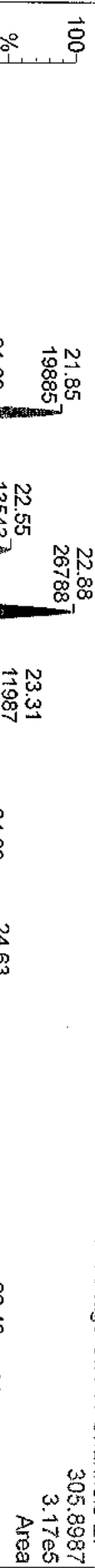
10-Dec-2021

21:09:05

77:5247:APEN_PDI-CORE-01-A-07,S
 M3211209B13 Sm (SG, 2x2)



M3211209B13 Sm (SG, 2x2)
 1: Voltage SIR 11 Channels EI+



M3211209B13 Sm (SG, 2x2)
 1: Voltage SIR 11 Channels EI+



M3211209B13 Sm (SG, 2x2)
 1: Voltage SIR 11 Channels EI+



Quantity Sample Report

Sample Name: C:\MASSLVRX\Default.pro\SAMPLEDB\M3211209B_1613
 Last modified: Fri Dec 10 08:50:18 2021
 Method: C:\MASSLVRX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: REZ798-01R

37: Totals: Tetra-Dioxins

REZ798-01R

7713247: APEX_PDI-CORE-01-A-07*, S

AutoSpec Ultima - M536

10-Dec-2021

07:39:35

M3211209B13 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

22.46 22.48 22.87 23.19 24.02 24.90 25.64 26.15

1652 1538 883 417 2895 504 592 481

3442

24.89 520

25.64 592

26.15 481

319.3935 2.59e4 Area

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

321.8936 2.95e4 Area

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

7.79e4

M3211209B13 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

331.9368 7.70e6

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

333.9339 8.99e6

M3211209B13 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

333.9339 8.99e6

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

333.9339 8.99e6

M3211209B13 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

333.9339 8.99e6

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

333.9339 8.99e6

22.46 22.88 23.20 24.02 24.90 25.66 26.17

1652 1136 554 3442 504 945 635

3442

24.89 520

25.64 592

26.15 481

333.9339 8.99e6

Quantify Sample Report

Sample Name: C:\MSDCHEM\Default1\PRO\SAMPLEDB\M3211209B_1613
 Last Modified: Sat Dec 10 08:50:14 2021
 Method: C:\MSDCHEM\Default1\PRO\METHODS\M3211209B_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: REZ798-01R

35: C137-2,3,7,8-TCDD

REZ798-01R

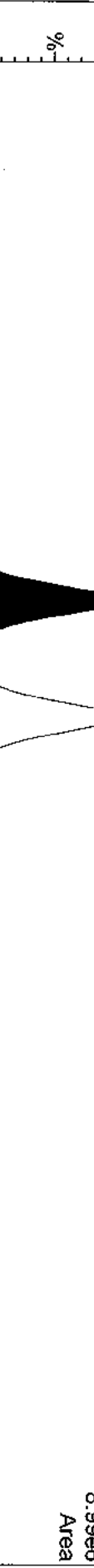
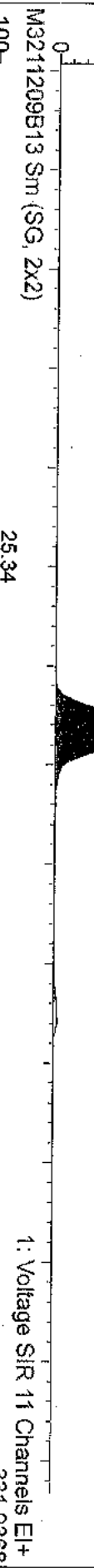
7715247: APEX_PDI-CORE-01-A-07*, S

M3211209B13 Sm (SG, 2x2)

Autospec Ultima - M536

10-Dec-2021

07:39:35



Quantity Sample Report

Sample Name: C:\MSDCHEM\DATA\10-DEC-2021\SAFETY\M3211209B13
 Sample Modified: 10 Dec 10 08:50:14 2021
 Sample Code: C:\MSDCHEM\DATA\10-DEC-2021\SAFETY\M3211209B13
 Sample Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: REZ798-01R

38: Hexa DBE

REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7713247: APEX_PDI-CORE-01-A-07, S

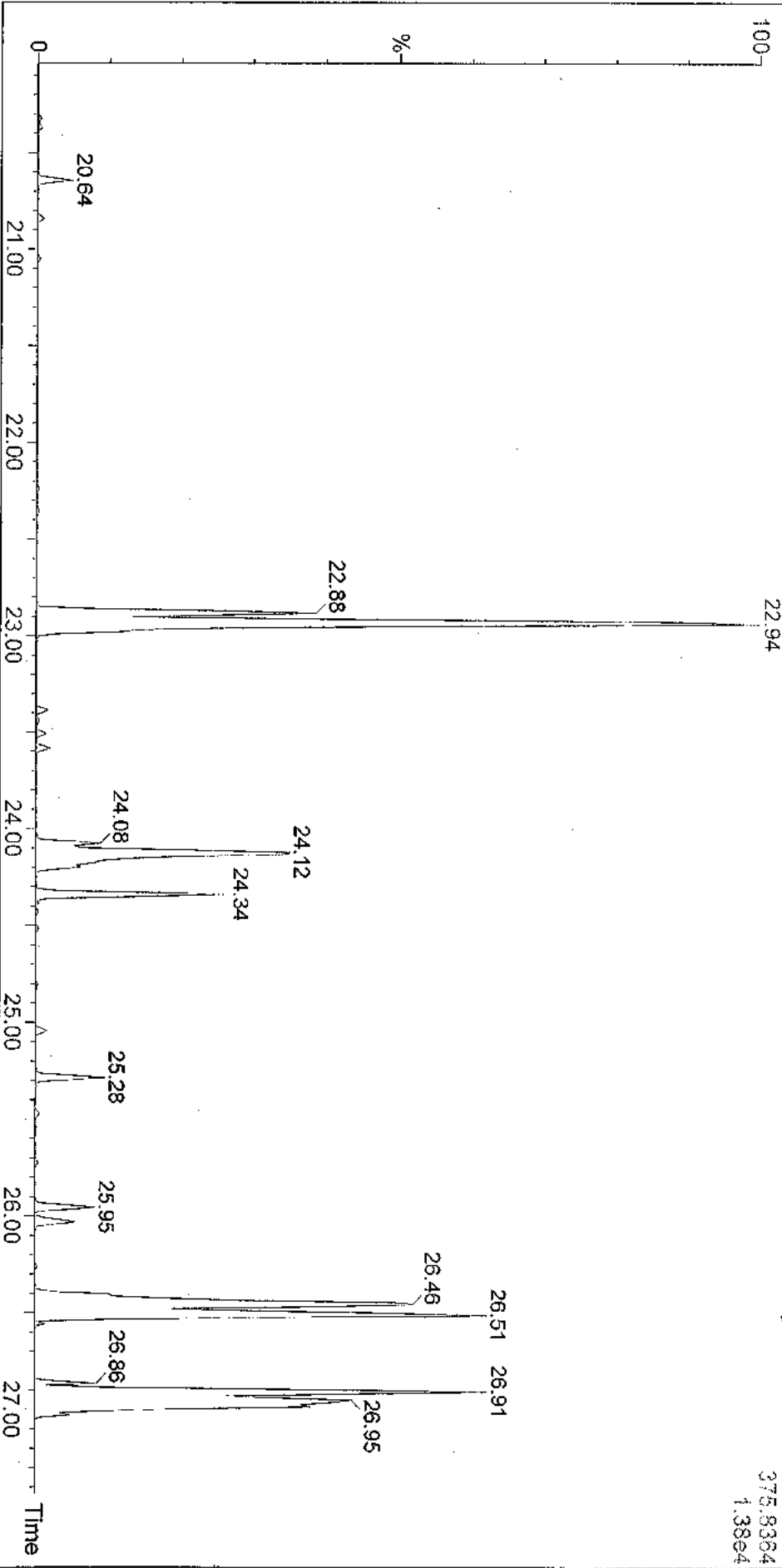
M3211209B13 Sm (SG, 2x2)

1: Voltage SIR 11 Channels E1+

07:39:35

375.8364

1.38e4



Quantify Sample Report

Name: M3211209B13
 Last modified: Sat Dec 10 09:50:13 2021
 Method: C:\MSDCHEM\DATA\PRO\SAMPLEDATA\M3211209B13_1513
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: RE2798-01R

39: Function 1 Lockmass

RE2798-01R

77-00-01-1-REX_FCI-CORE-01-A-07*, S

M3211209B13 SM (SG, 2X2)

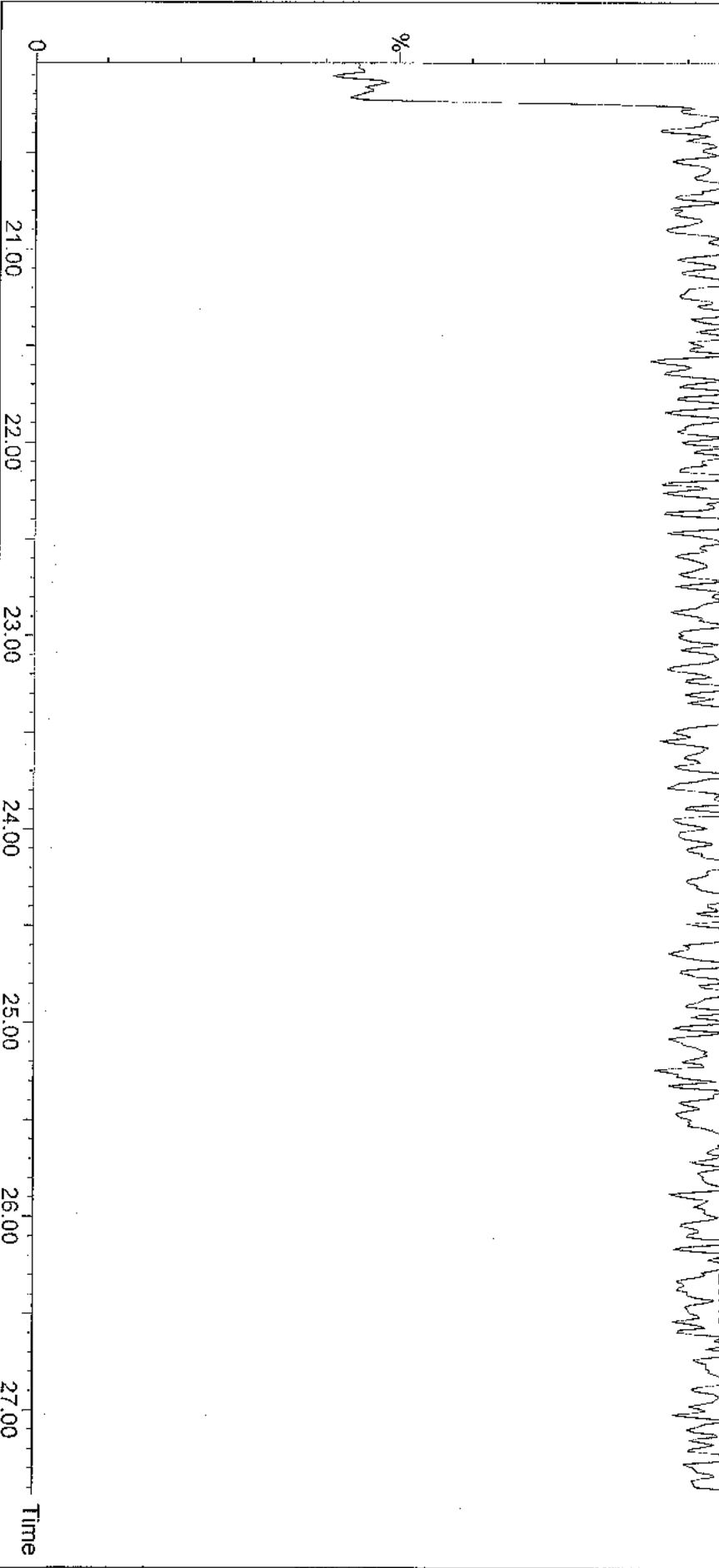
Autospec Ultima - M536

10-Dec-2021

07:23:35

1: Voltage SIR 11 Channels EI+

100%
 20.32 20.66 21.17 21.32 21.74 22.18 22.43 23.27 23.44 23.91 24.18 24.54 24.69 24.99 25.59 26.13 26.43 26.70 26.84 27.24 316.9824 8.04e5



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C:\ProgramData\Oracle\BIN\Tools\N321109A\bin\
cert modified: Fri Dec 10 03:50:18 2011
C:\ProgramData\Oracle\BIN\Tools\N321109A\bin\
last modified: Mon Nov 25 13:10:41 2011
Job Code:

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Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
Text: REZ798-01R

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3.93e3

520 of 729

40: Totals Penta-Furans
REZ798-01R

Autospec Ultima - 77538

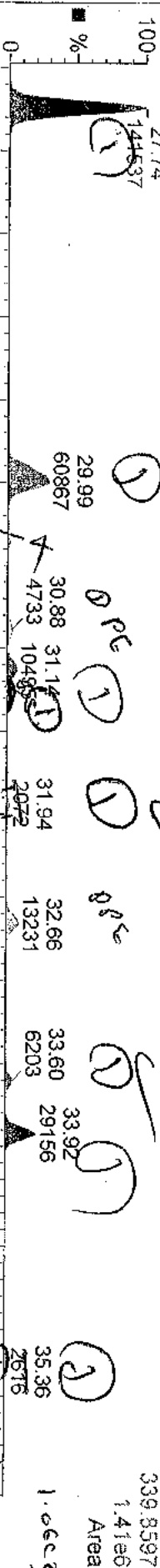
40-1086-2024

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 12. 8
 13. 9

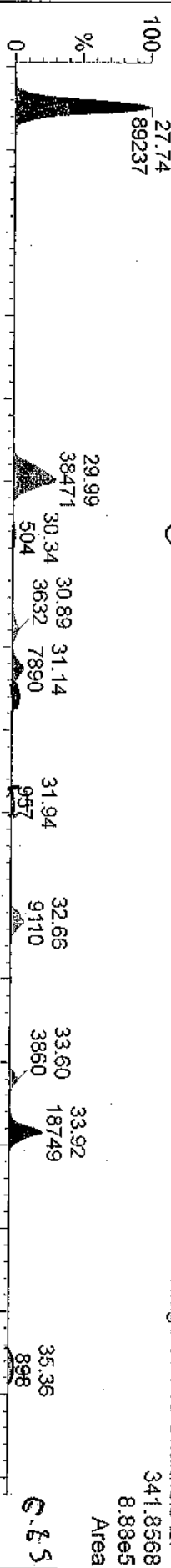
443214208B13 STM (SG, 2x2)
0774

2103 S R to Chennais U-4



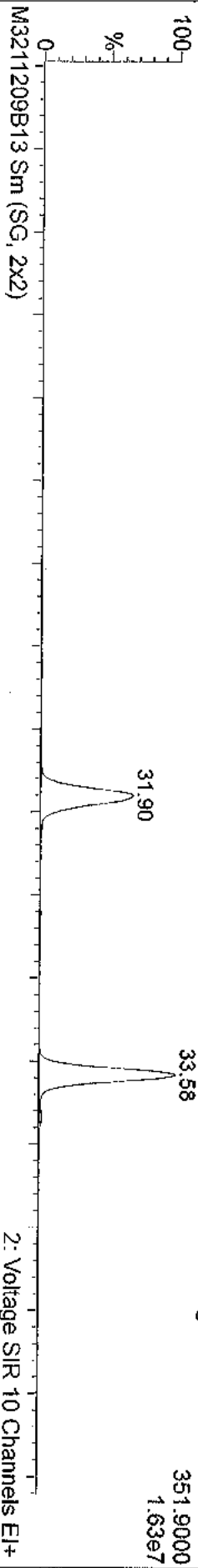
M3211208B13 Sm (SG, 2x2)

2: Voltage S/R 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

Bureau Veritas Laboratories

Quantity Sample Report

Sample: 7715247: APEX_PDI-CORE-01A-07, S
 Date: 10-Dec-2021 07:39:35
 Method: MS211209B13 Sm (SG, 2x2)
 Last modified: Mon Nov 29 13:34:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: MS211209B13
 Text: REZ798-01R

41: Totals Penta-Dioxins

REZ798-01R

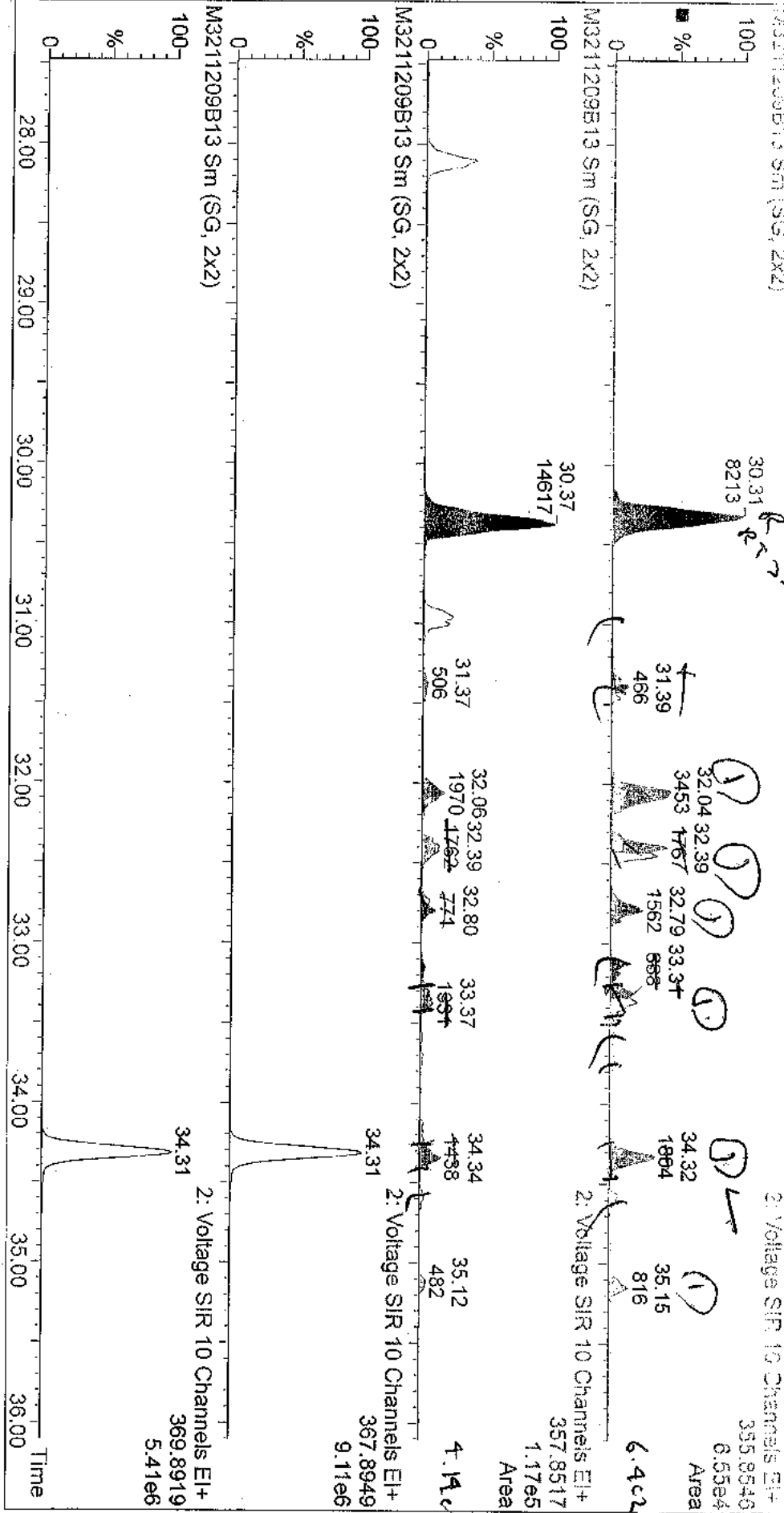
7715247: APEX_PDI-CORE-01A-07, S

MS211209B13 Sm (SG, 2x2)

Autospec Ultima - M536

10-Dec-2021

07:39:35



Quantity Sample Report

File: 14-11-2021 07:39:35 (Default Name) Sample: M3211209B13
 Last Modified: Mon Nov 23 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: RE2798-01R

42: Hepta.DPS

RE2798-01R

77132471 APDEX_PDI-CORE-01-A-07*, S

M3211209B13 SM (SG, 2x2)

AutoSpec Ultima - M535

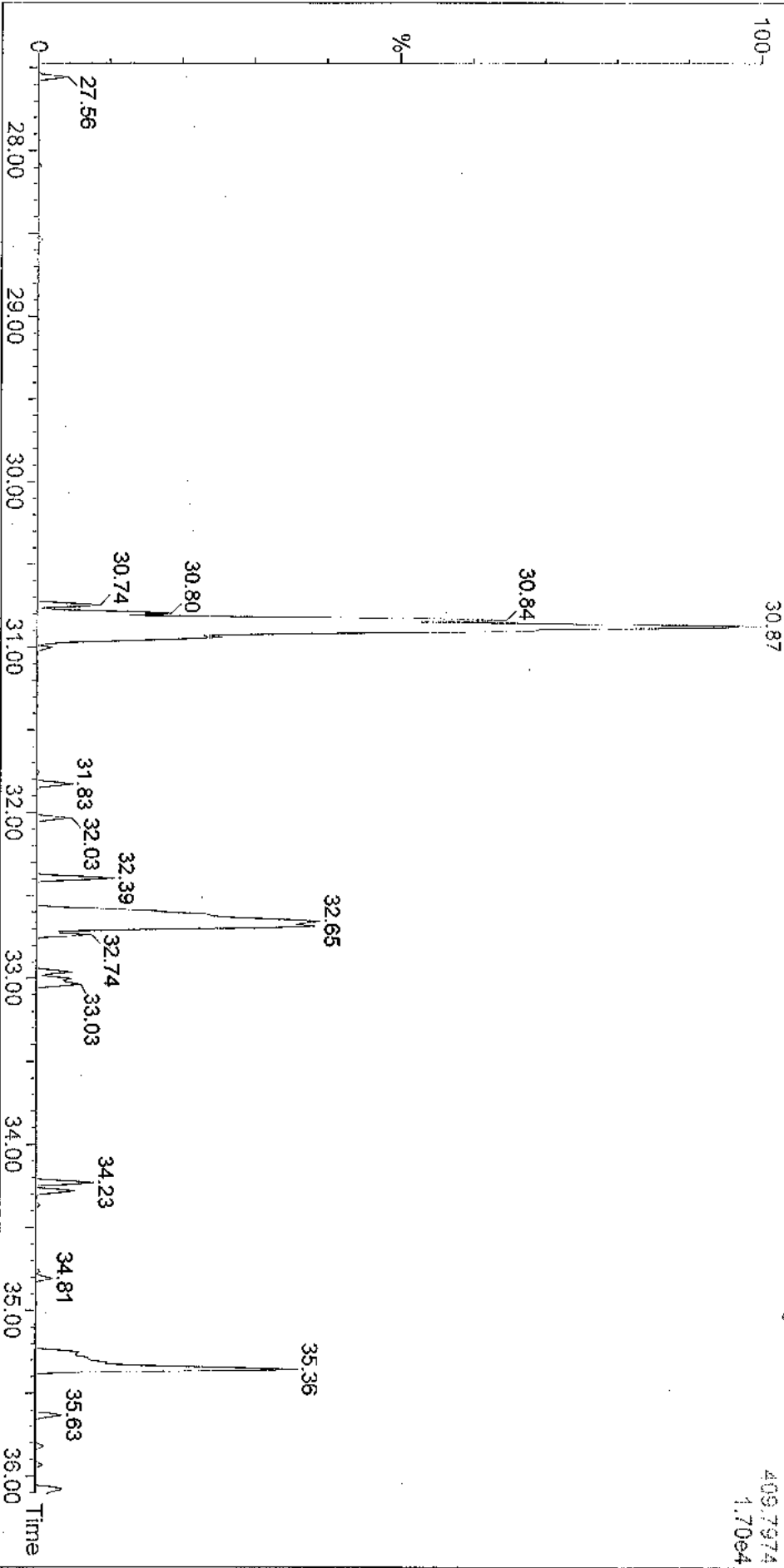
40-Dec-2021

07:39:35

2. Voltage S/N 10 Channels E+4

409.7974

1.70e4



Quantity Sample Report

8

Last modification: 2021-11-11 10:11:11
Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
Text: RZ798-01R

43: Function 2 Lockmass

27.76-28.10

M3211209B13 Sm (SG, 2x2)

27.76-28.10

27.76 28.10 28.22 28.94 29.21 29.77 29.90

30.38 30.94 31.33 31.44

32.10 32.52 32.66 33.10

33.43 33.88 34.07 34.56

35.35 35.80 36.97 37.32

0.61e5

2. Voltage SIR 10 Channels EI+

42-Dec-2021 17:35:35

AutoPac 010000 - 10000



Quantity Sample Report

Lab modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: RZ798-01R

44: Total: Hexa-Fluoro

Autospec Ultima - M535

10-Dec-2021

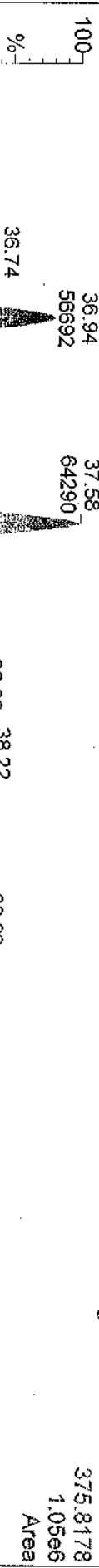
M3211209B13 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



10

7.083

Last modified: Nov 28 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
Text: RE2798-01R

451: Toxicals, Hexa-Dioxins

RE2798-01R

M3211209B13 Sm (SG, 2x2)

Autospec Ultima - M536

10-Dec-2021

07:33:03

M3211209B13 Sm (SG, 2x2)

3: Voltage S/R 10 Channels EI+

388.8153

2.82e5

Area

7.05e2

M3211209B13 Sm (SG, 2x2)

3: Voltage S/R 10 Channels EI+

391.8127

2.28e5

Area

5.69e2

M3211209B13 Sm (SG, 2x2)

3: Voltage S/R 10 Channels EI+

401.8559

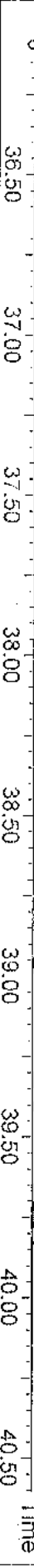
1.52e7

M3211209B13 Sm (SG, 2x2)

3: Voltage S/R 10 Channels EI+

403.8530

1.17e7



6

4.88e3

Quantify Sample Report

Job Name: M3211209813
 Job Code: M3211209813
 Date: NOV 29 13:08:11 2021

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209813
 Text: M3211209813

461 0008.DDE

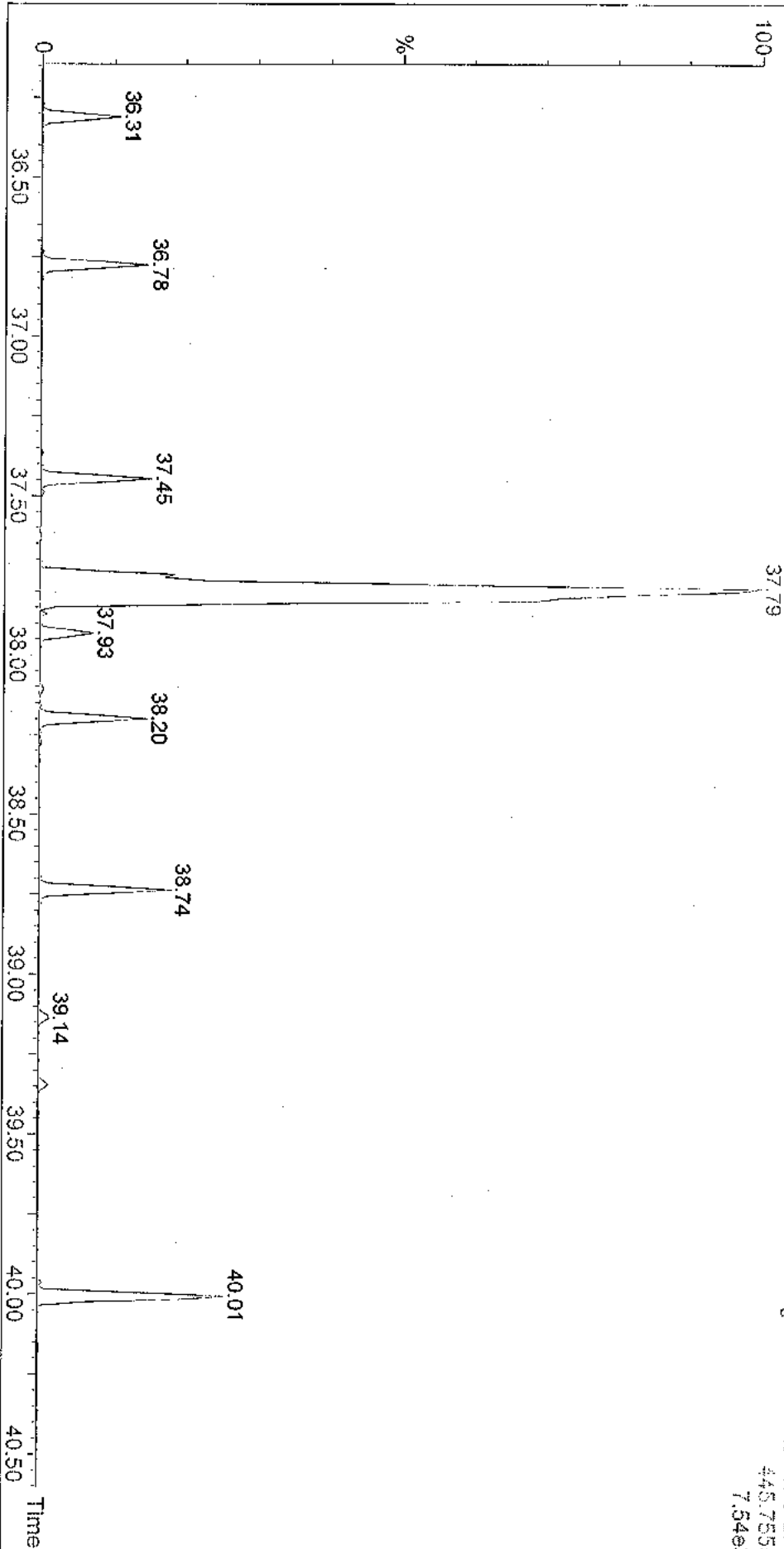
M3211209813

M3211209813 Sm (SG, 2x2)

AutoSpec Ultima - M536

3: Voltage SIR 10 Channels EI+

445.7555
 7.54e3



Quantity Sample Report

Job Code: 10-DEC-2021
 Method: 10-DEC-2021
 Last modified: 29 NOV 29 13:04:11 2021
 Job Code: 10-DEC-2021

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: R2798-01R

47: Function 3 Lockmass

R2798-01R

M3211209B13 SM (SG, 2X2)

Autospec Ultima - M3211

10-DEC-2021

07:05:33

36.34 36.58 36.69 36.99

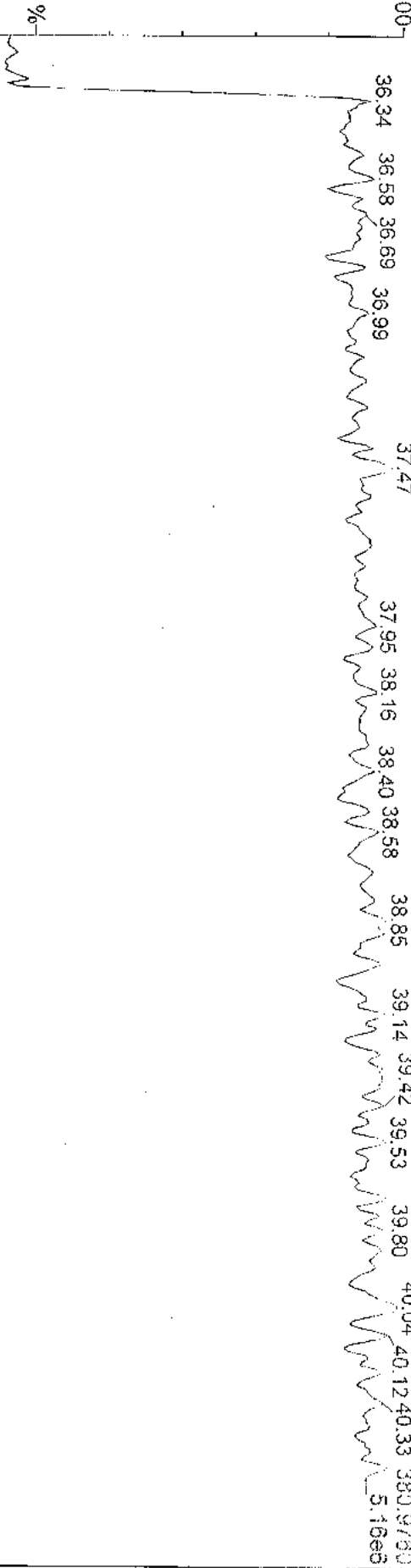
37.47

37.95 38.16 38.40 38.58 38.85 39.14 39.42 39.53 39.80 40.04 40.12 40.33 380.9730

5.16e3

3: Voltage SFR 10 Channels E1+

5.16e3



Quantity Sample Report

Sample Name: M3211209B13
 Date: 10-Dec-2021
 Time: 09:05:35
 Job Code: 56923

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: REZ798-01R

48: 100% Hepta-Furans

REZ798-01R

Autospec Ultima - MS3e

10-Dec-2021

M3211209B13 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



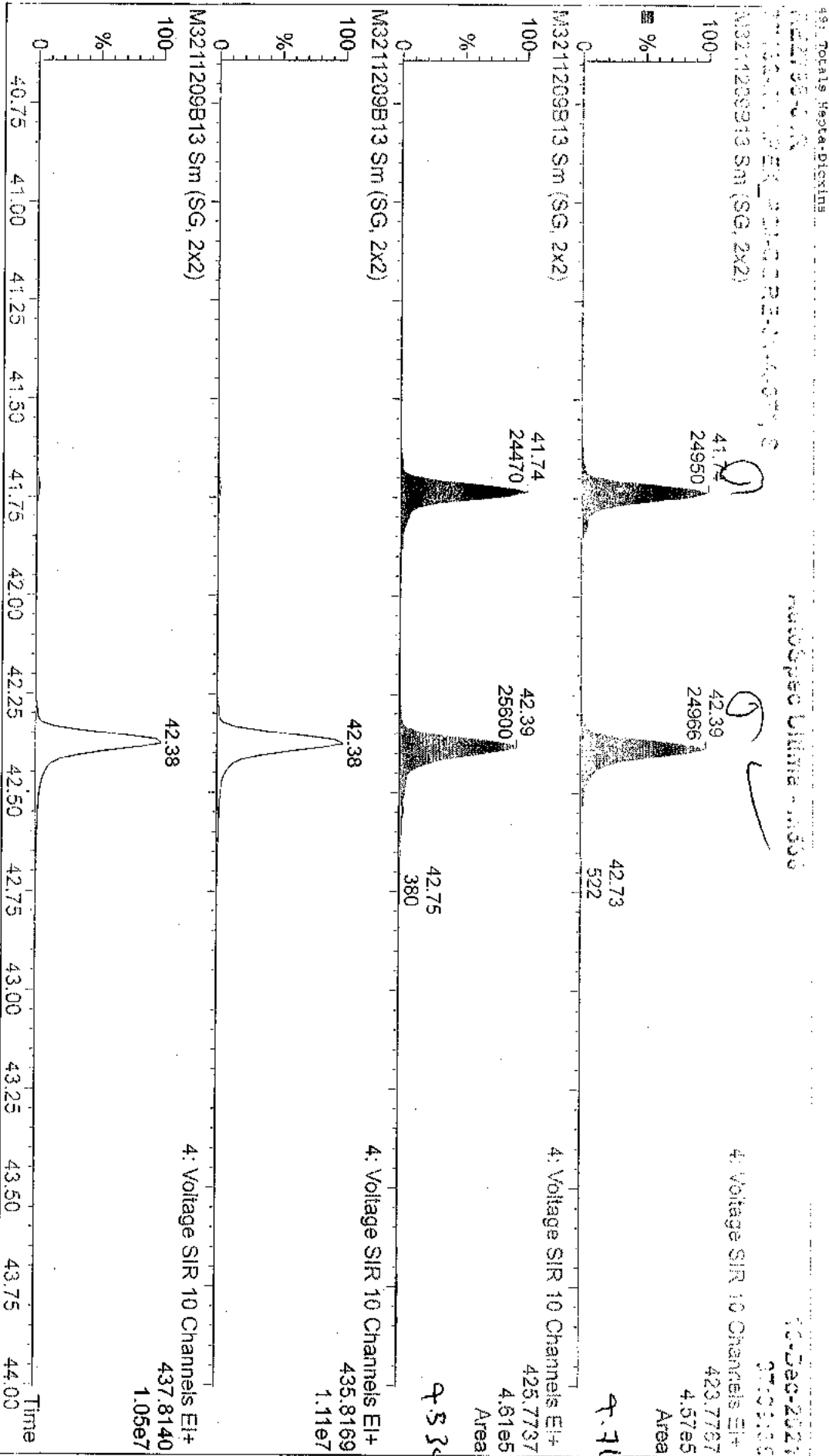
Qualify Sample Report

Client:
 Date: 11 Dec 10
 Job Code:
 Printed: Sat Dec 11 09:05:35 2021

Name: M0211209B13
 Text: RM798-01R

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3.13e3



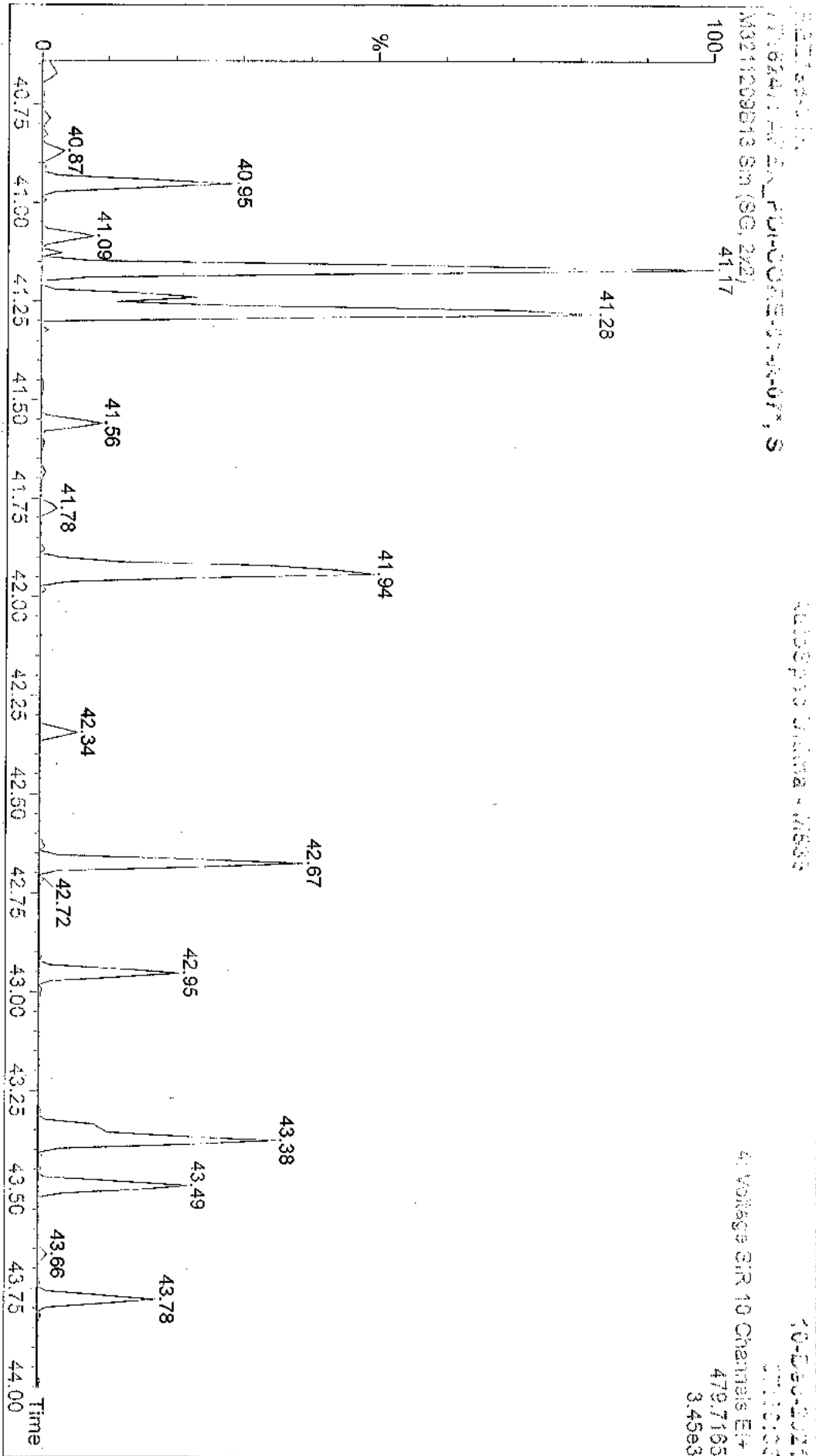
Qualify Sample Report

Sample Name: C:\MASSLYN\7-27-11\PRO\SAMPLES\M211209B_1613
 Date Rec'd: 12/01/2011
 Method: 21 (MASSLYN) 10112-100 (METHOD)M...17A_HC_1613
 Date Rec'd: 12/01/2011
 Job Code:

Printed: Sat Dec 11 09:05:35 2011

Name: M211209B13
 Text: RE2798-01R

50: Nona.DPE



Quantify Sample Report

File: \\BUREAU\DATA\1-2013\12-11-2013\12-11-2013
 Method: \\BUREAU\DATA\1-2013\12-11-2013\12-11-2013
 Date Modified: 12-11-2013 15:05:13
 Job Code:

Printed: Sat Dec 11 09:05:13 2013

Name: M3211209B13
 Text: R2728-01R

File Function: LockMass

M3211209B13 Sm (SG, 2x2)

100 40.99 41.09 41.17

41.49

41.84

42.20

42.40

42.59

42.89

42.98

43.16

43.46

43.51

43.65

43.93

430.9728

3.15e6

4. Voltage SIR 10 Channels EIR

40.77

40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

Quantity Sample Report

Sample Name: C:\MSDCHEM\2-26-21\7716247-01A-07.S
 Sample Path: C:\MSDCHEM\2-26-21\7716247-01A-07.S
 Sample Date: 12/26/2021
 Sample Time: 10:00:00
 Sample Weight: 0.1000g
 Sample Volume: 0.1000mL
 Sample Concentration: 1.0000g/mL
 Sample Purity: 100.00%
 Sample Matrix: 7716247-01A-07.S
 Sample Method: 7716247-01A-07.S
 Sample Modifier: 7716247-01A-07.S
 Sample Code: 7716247-01A-07.S

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: RZ798-01R

10: 90DP

RZ798-01R

7716247: APEX_PDI-CORE-01A-07, S

M3211209B13 Sm (SG, 2x2)

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M3211209B13 Sm (SG, 2x2)

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M3211209B13 Sm (SG, 2x2)

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M3211209B13 Sm (SG, 2x2)

100

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0

44.50 45.00 45.50 46.00 46.50 47.00 47.50 Time

Autospec Ultra - 16036

5: Voltage SIR 8 Channels EI+

441.7423

3.88e5

Area

3.24e

5: Voltage SIR 8 Channels EI+

443.7398

3.93e5

Area

3.64e

5: Voltage SIR 8 Channels EI+

469.7780

1.26e7

Area

5: Voltage SIR 8 Channels EI+

471.7750

1.37e7

Area

Quantity Sample Report

Job Name: M3211209B13
 Job Code: 10-Dec-2021
 Date Modified: Mon Nov 29 15:04:11 2021

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: RE2798-01R

①

1.61e3

17:0000

RE2798-01R

7713247: APEX_PD: CORE-01-A-07*, S

Autospec Ultima - M536

10-Dec-2021

07:39:35

M3211209B13 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.33
120319

457.7377

1.76e6

Area

3.02e6

M3211209B13 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.33
142464

459.7348

2.00e6

Area

3.34e6

M3211209B13 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.32
941852

469.7780

1.26e7

Area

M3211209B13 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.32
943781

471.7750

1.37e7

Area

Time

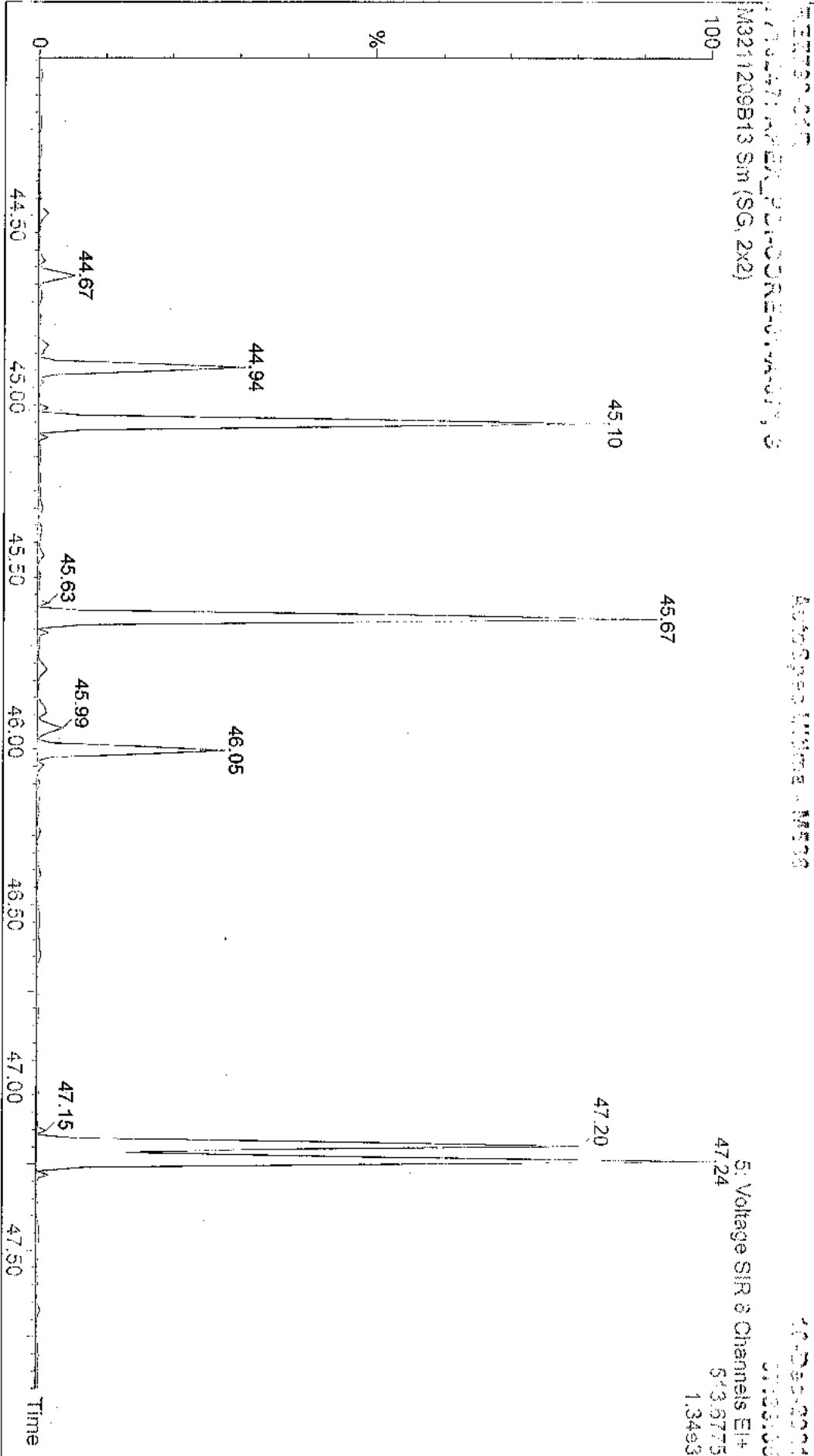
Quantify Sample Report

Sample Name: M3211209B13
 Sample ID: M3211209B13
 Sample Weight: 0.0000g
 Sample Volume: 0.0000mL
 Sample Concentration: 0.0000g/mL
 Sample Matrix: 5: Voltage SIR 3 Channels EI+
 Sample Date: Mon Nov 22 10:04:11 2021
 Job Code: 1.3493

Printed: Sat Dec 11 09:05:35 2021

Name: M3211209B13
 Text: R2736-01R

52: Deca DPE

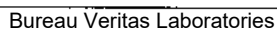


Last modified: Mon Nov 29 17:06:11 2021
Job Code:

Printed: Sat Dec 11 09:05:35 2011

Name: M3211209B13
Text: RES798-01R

53: function Lockmass



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

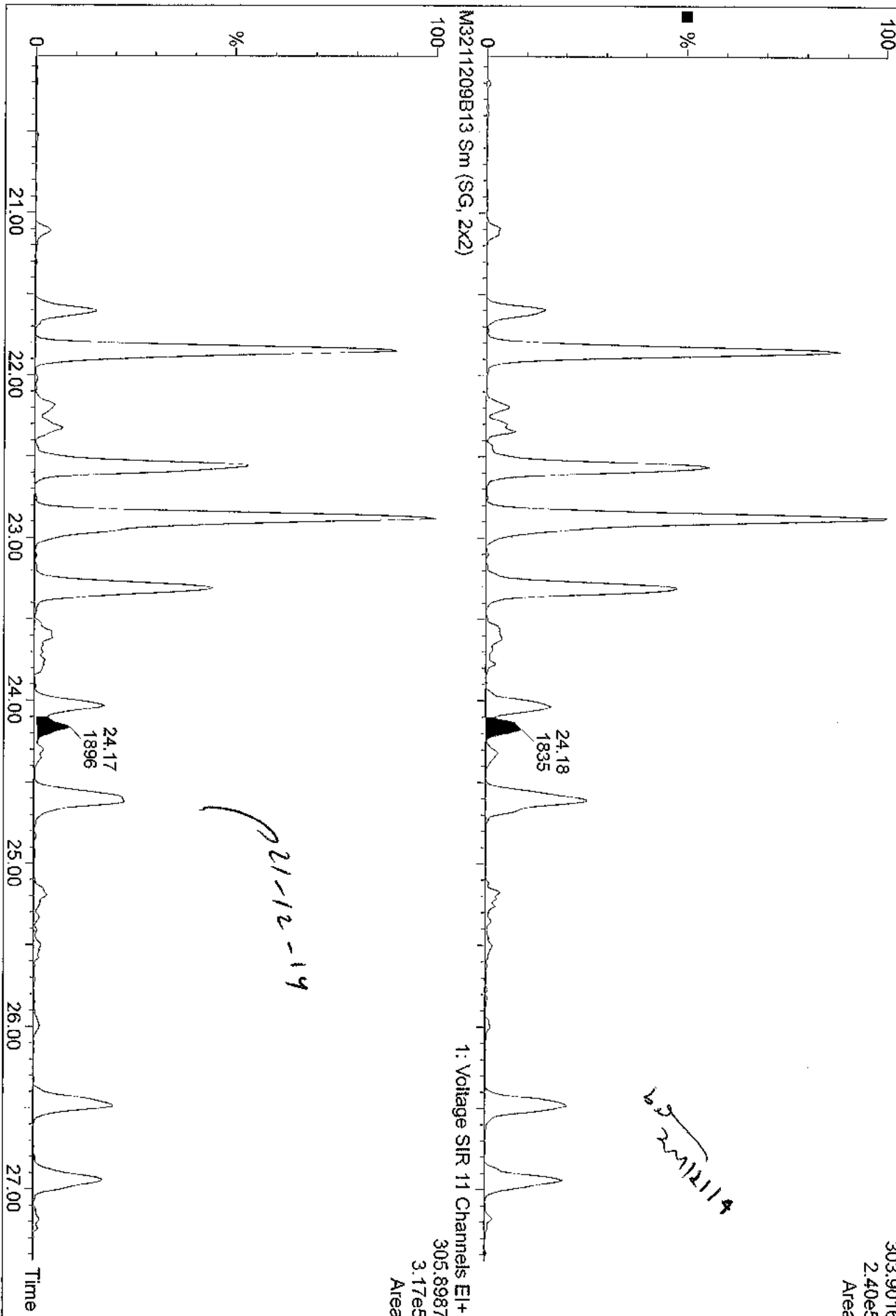
M3211209B13 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

303.9016

2.40e5

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

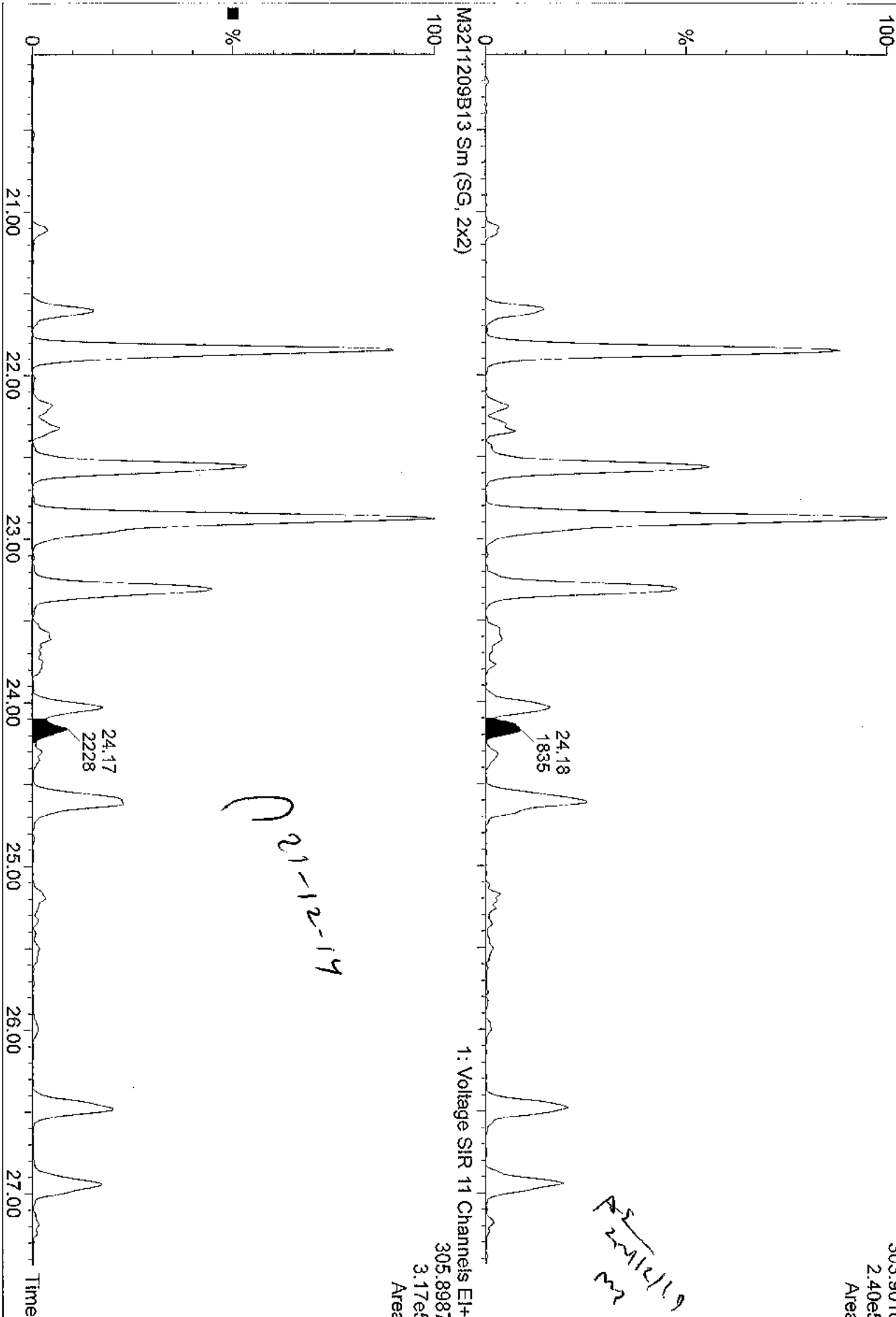
M3211209B13 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

303.9016

2.40e56

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

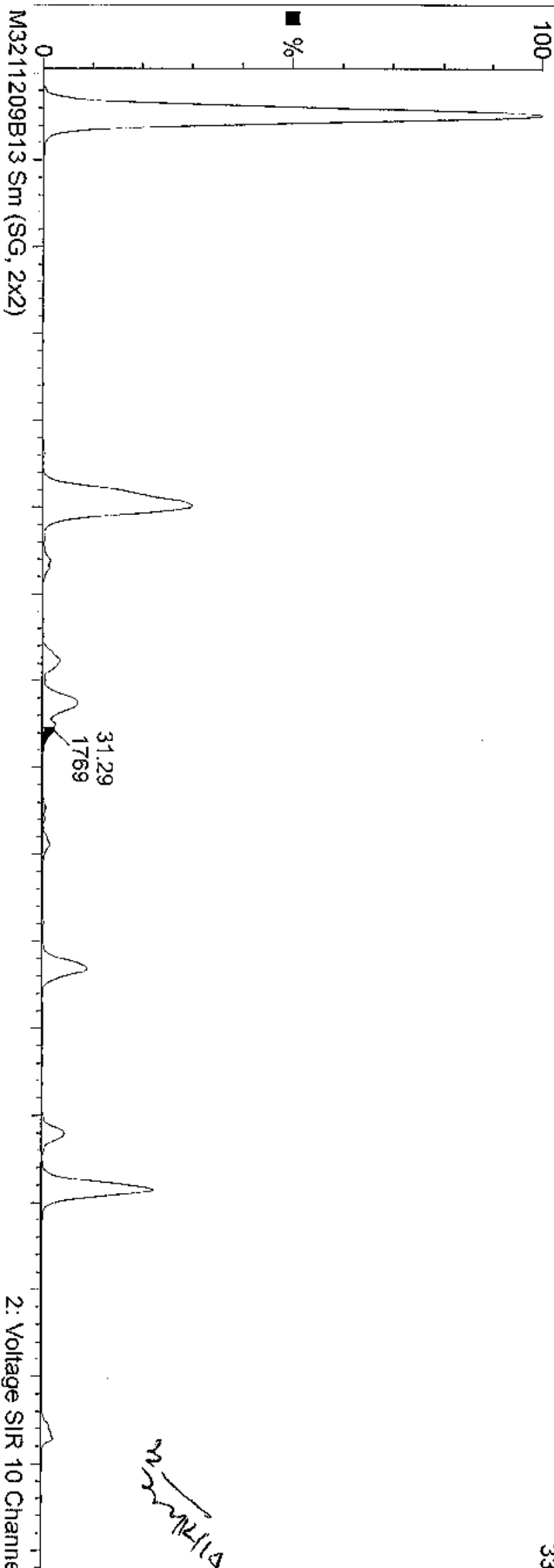
M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597

1.41e5

Area

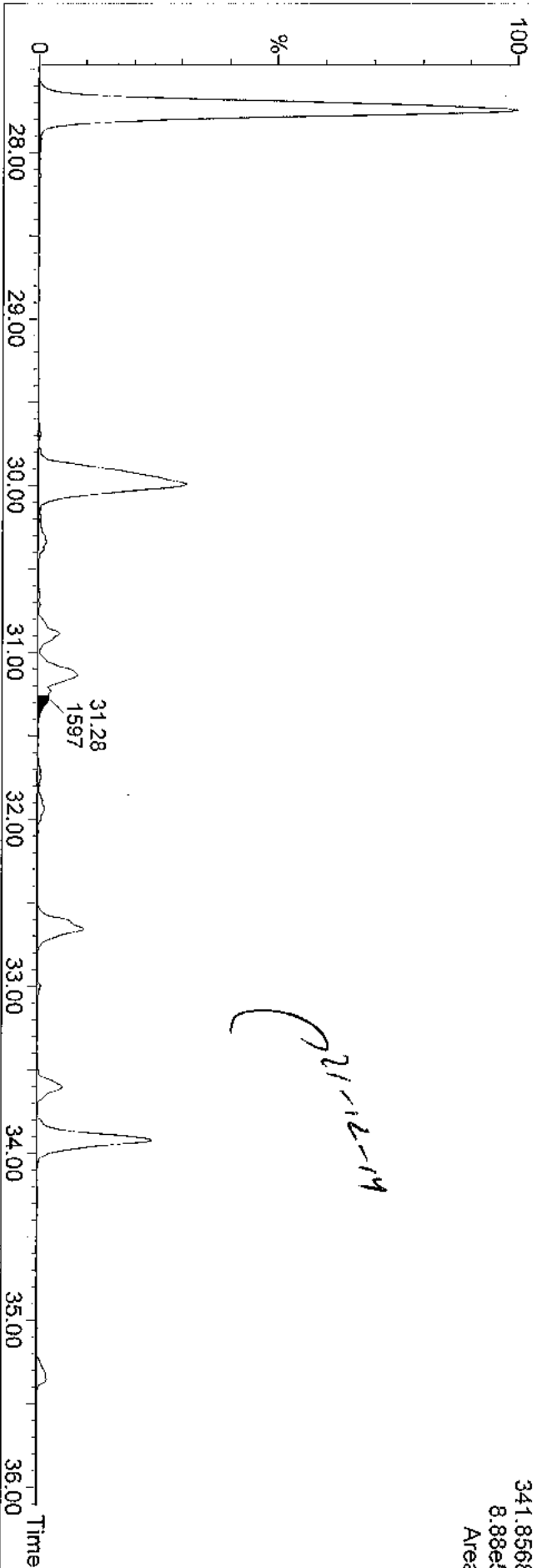


2: Voltage SIR 10 Channels EI+

341.8568

8.88e5

Area



21-12-14

REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

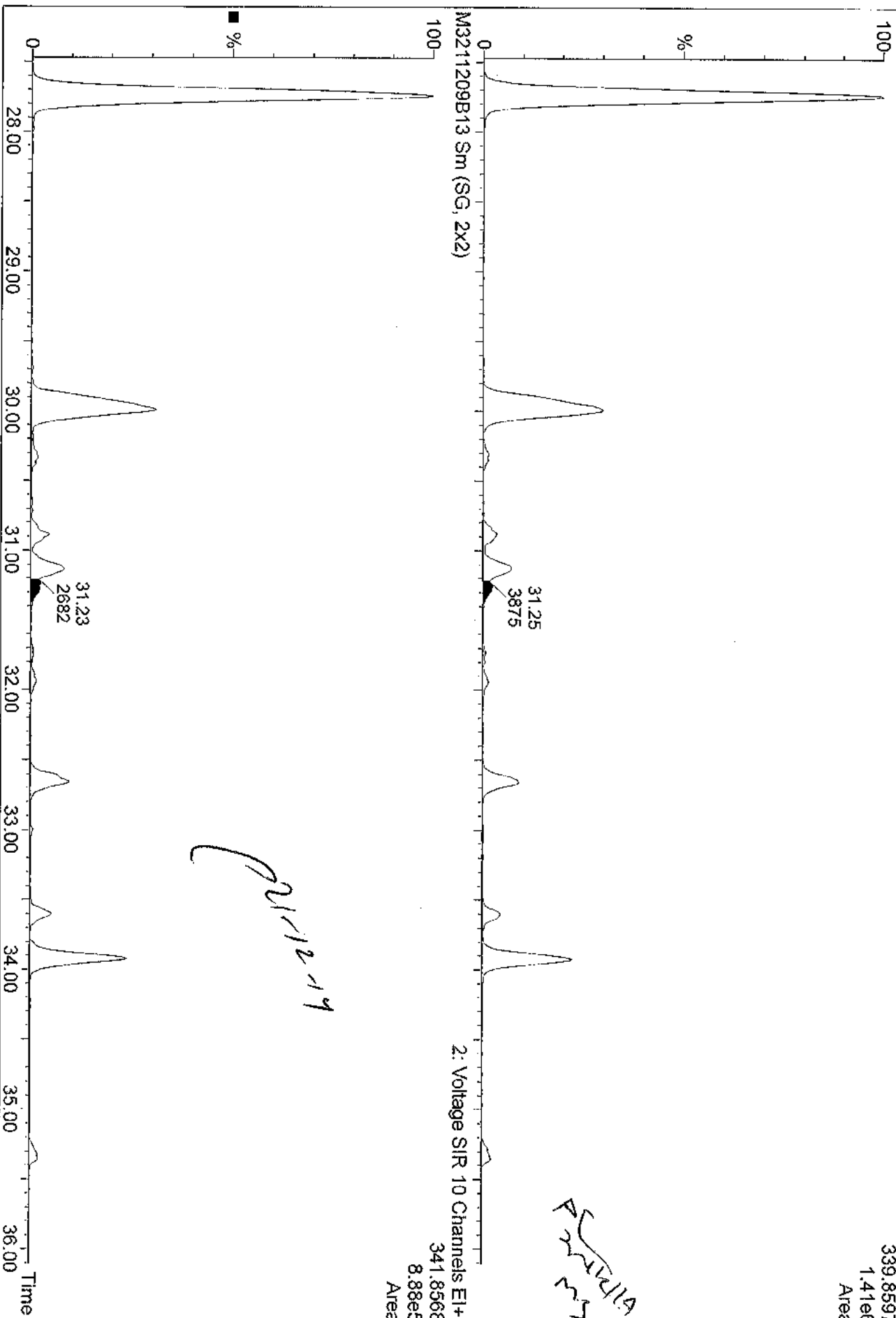
7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

339.8597
1.41e6
Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

339.8597

1.29e5

Area

M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

341.8568

8.49e4

Area

M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

351.9000

1.11e7

Area

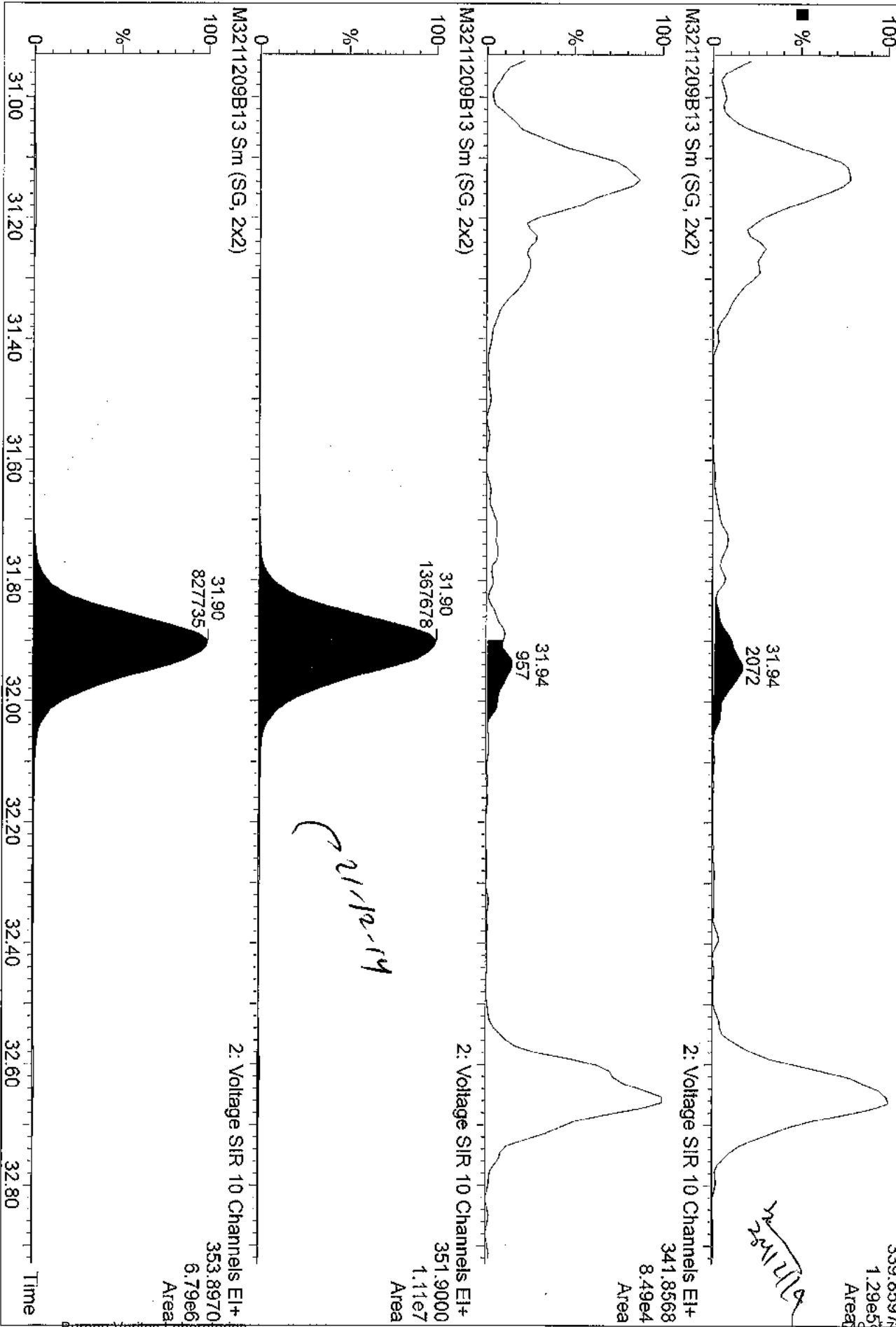
M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

353.8970

6.79e6

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

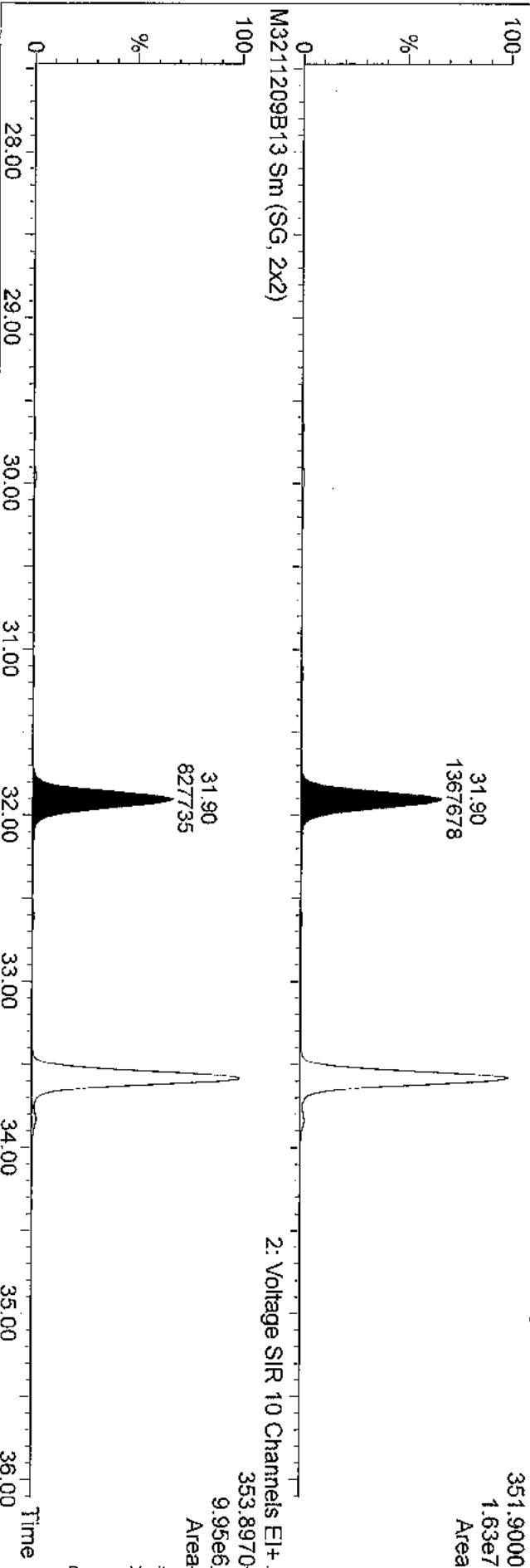
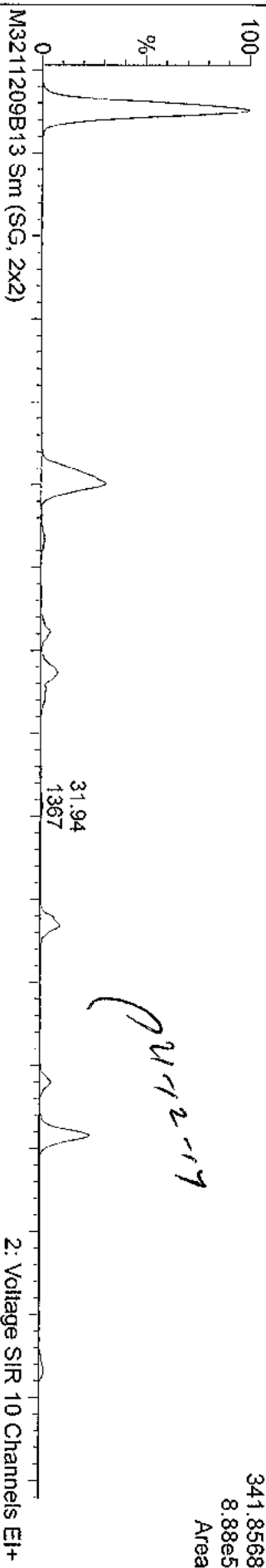
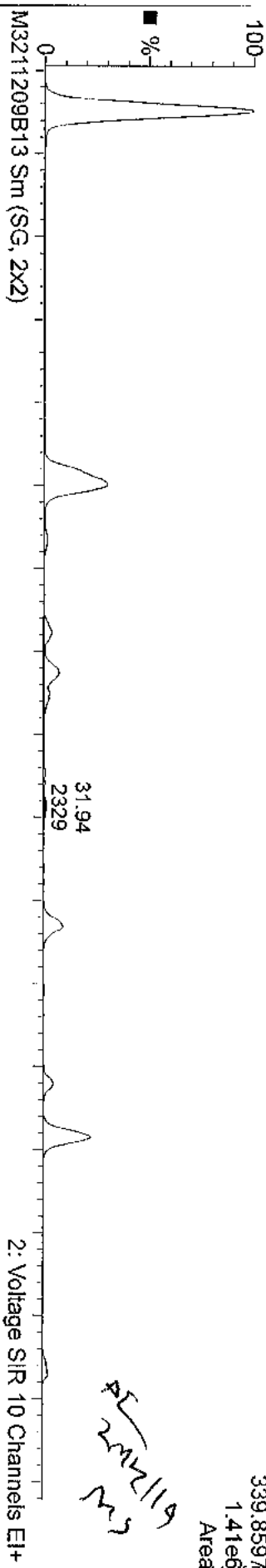
M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597

1.41e6

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

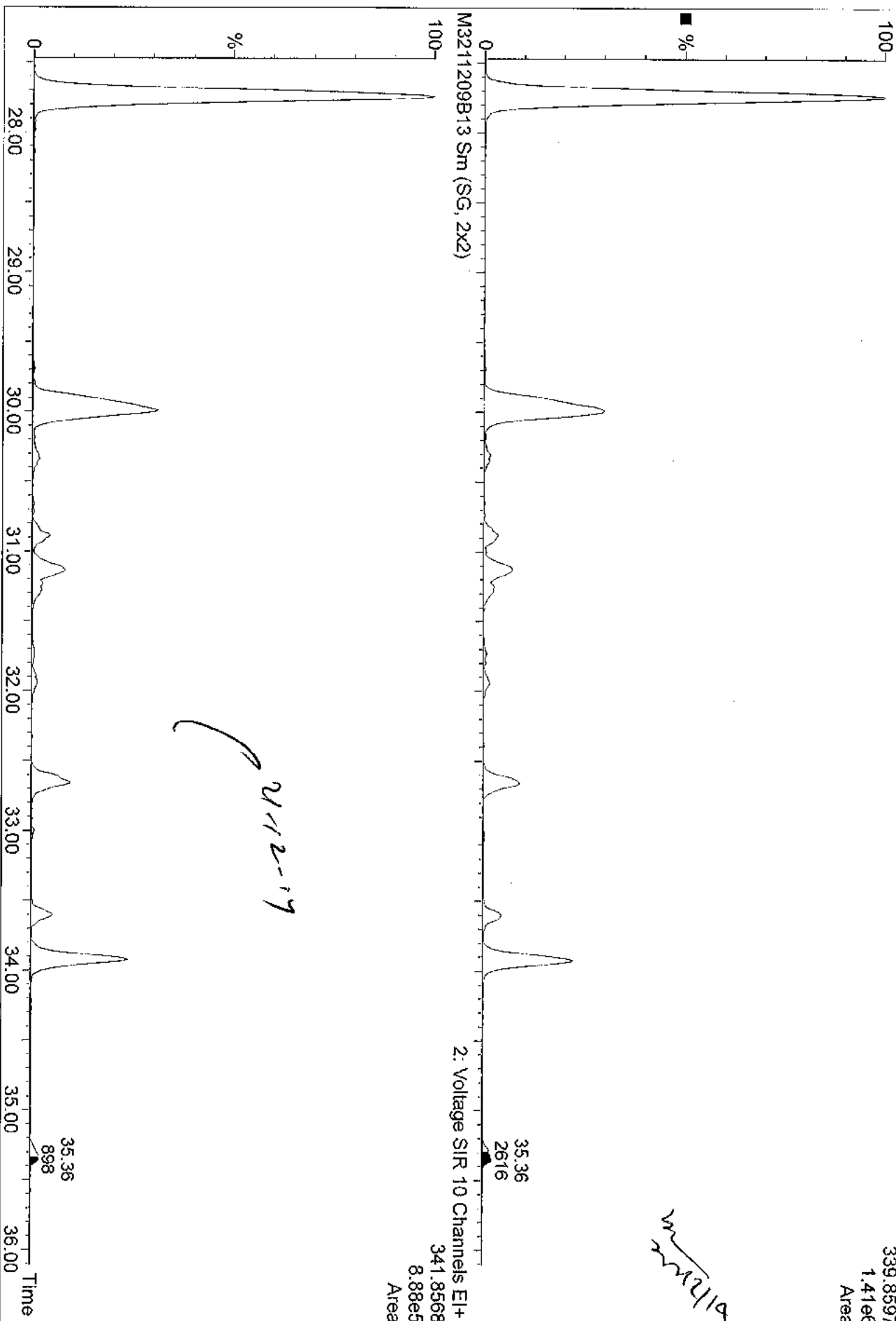
M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597

1.41e6

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597

1.41e6

Area

3271023

M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

35.36

3691

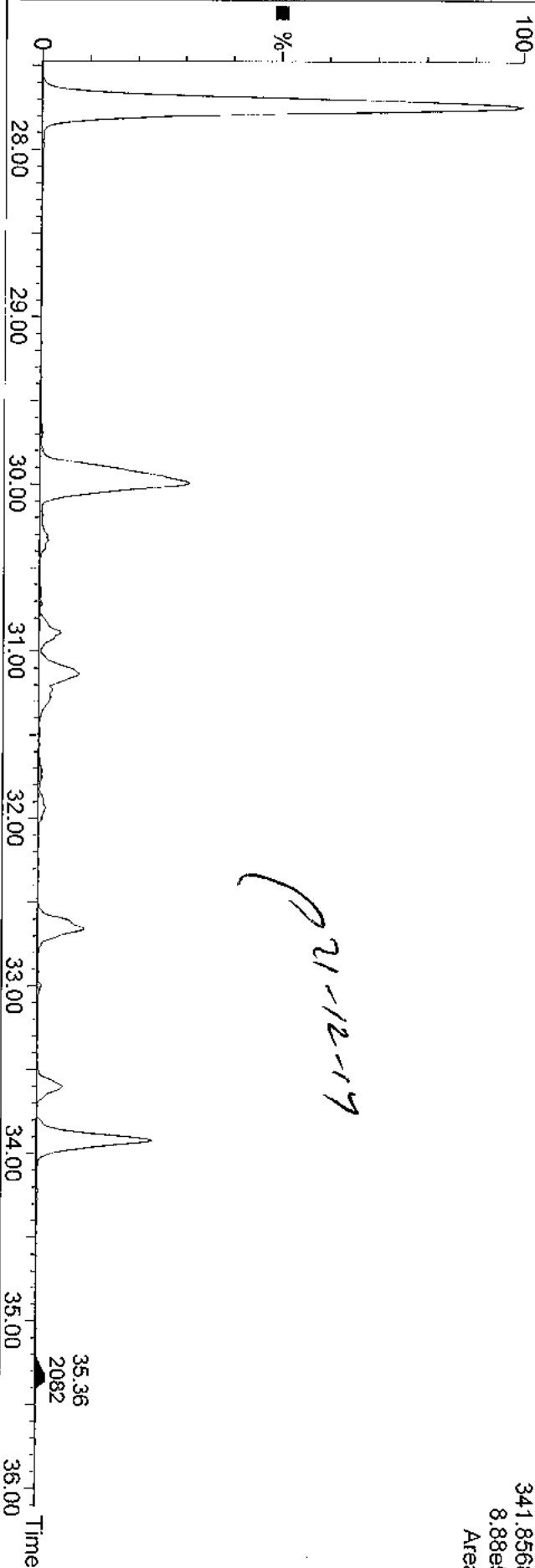
341.8568

8.88e5

Area

7/21/2021

21-12-17



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

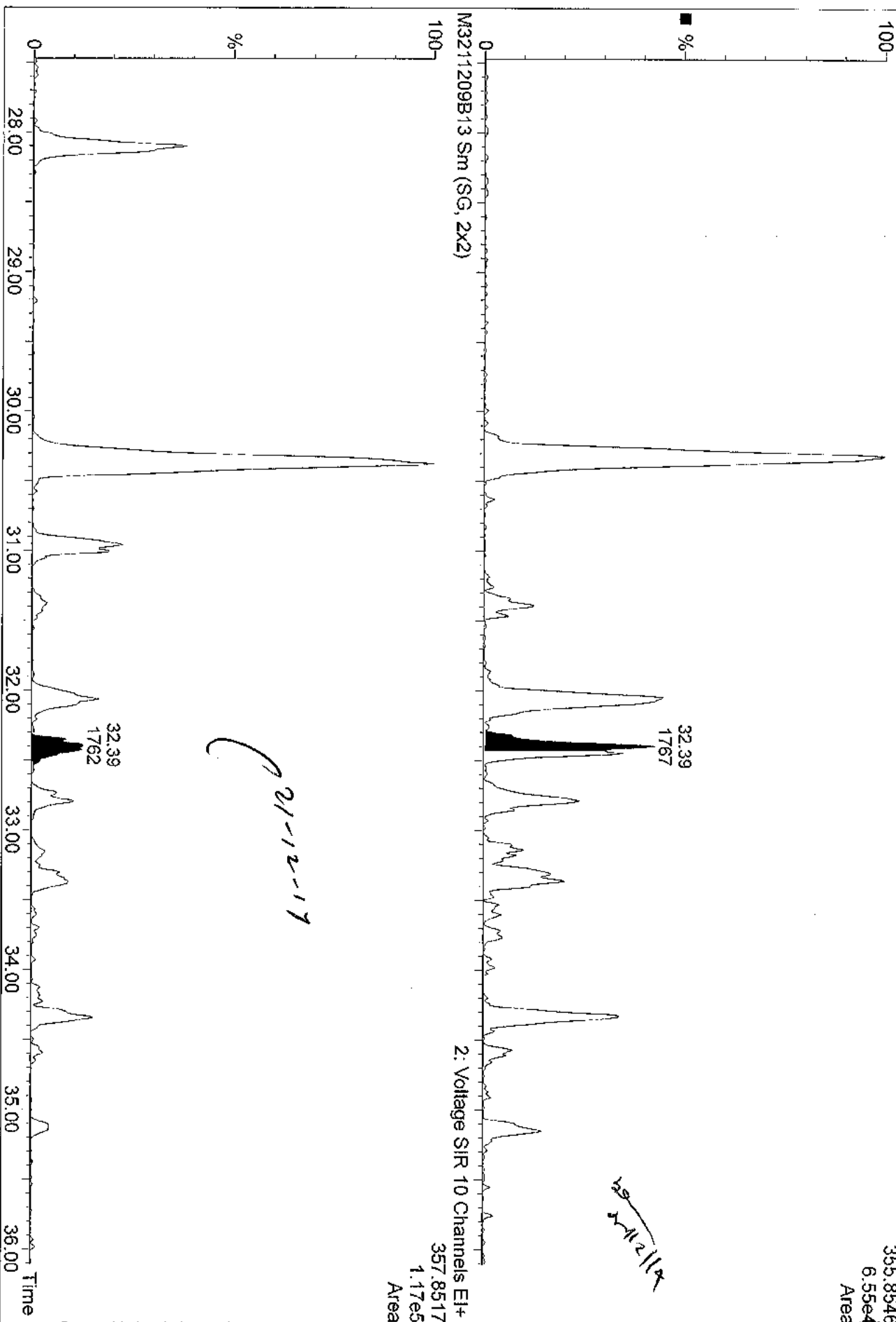
M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

355.85461

6.55e4

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

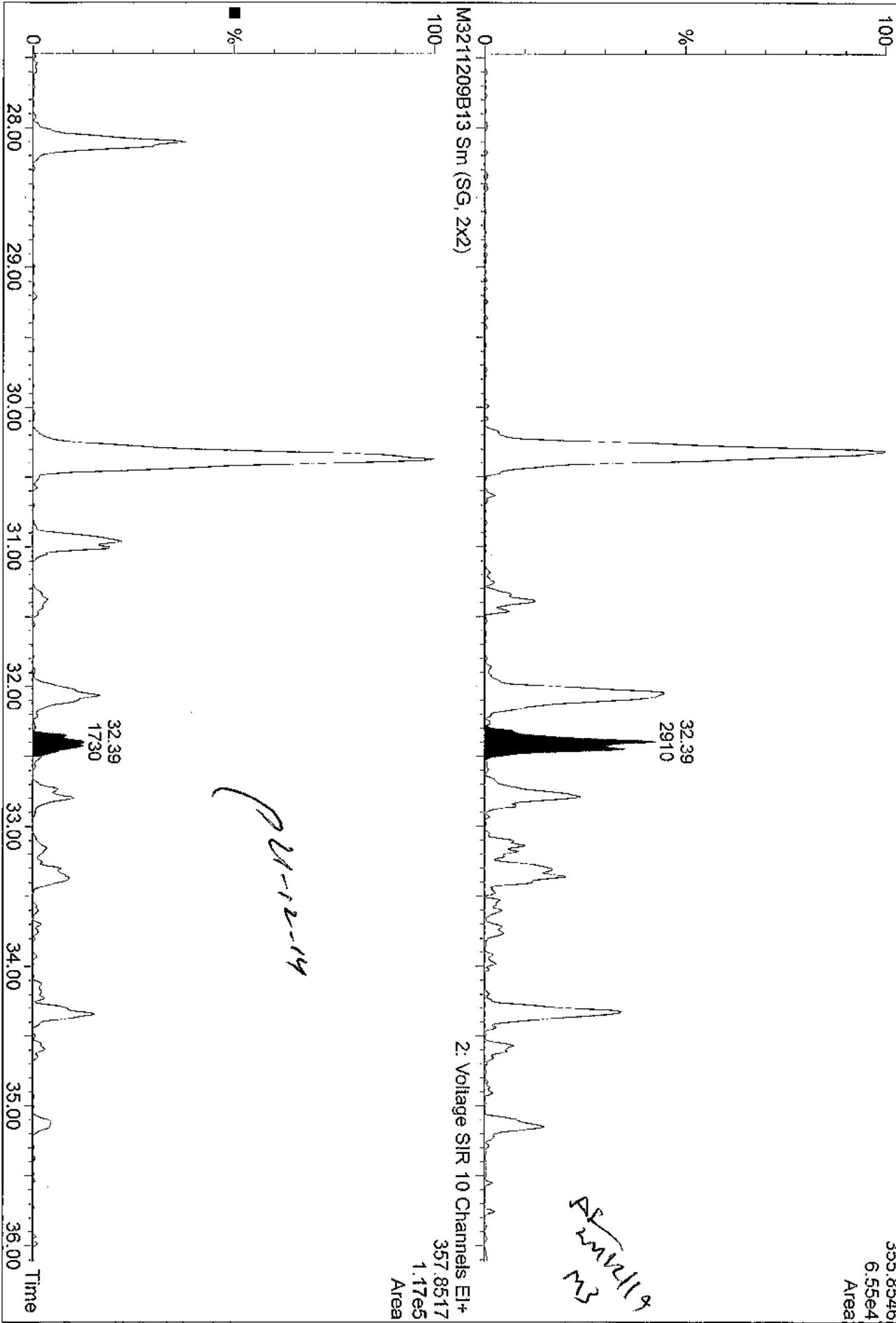
7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

355.8546
6.55e4
Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

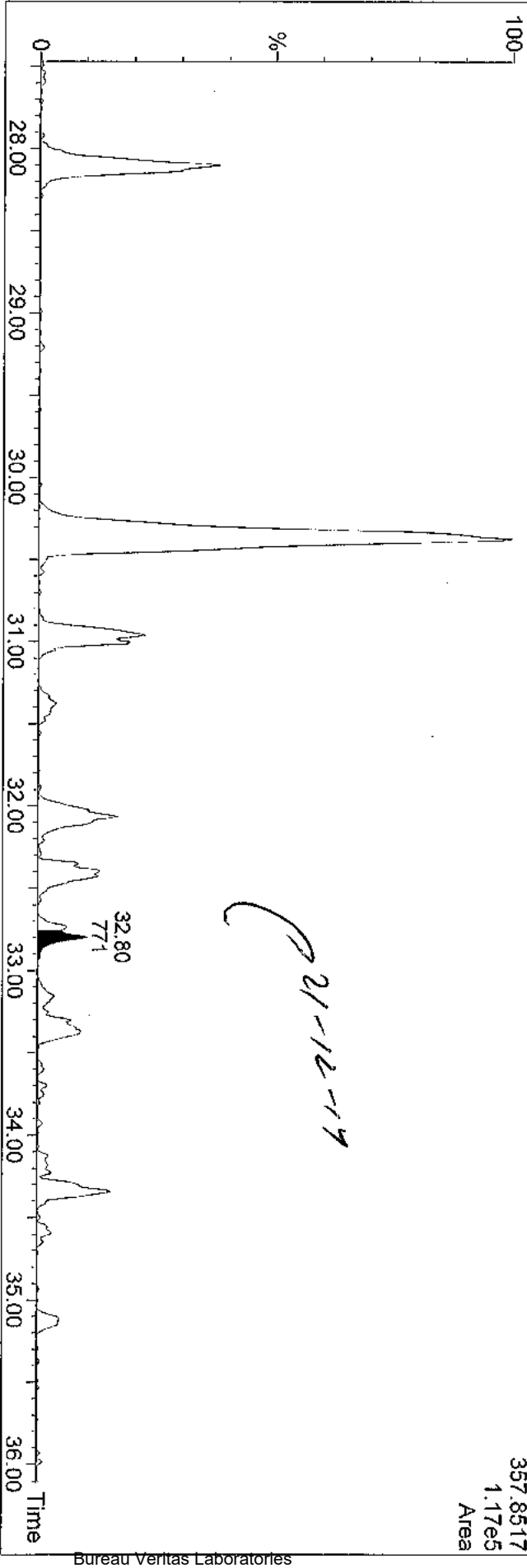
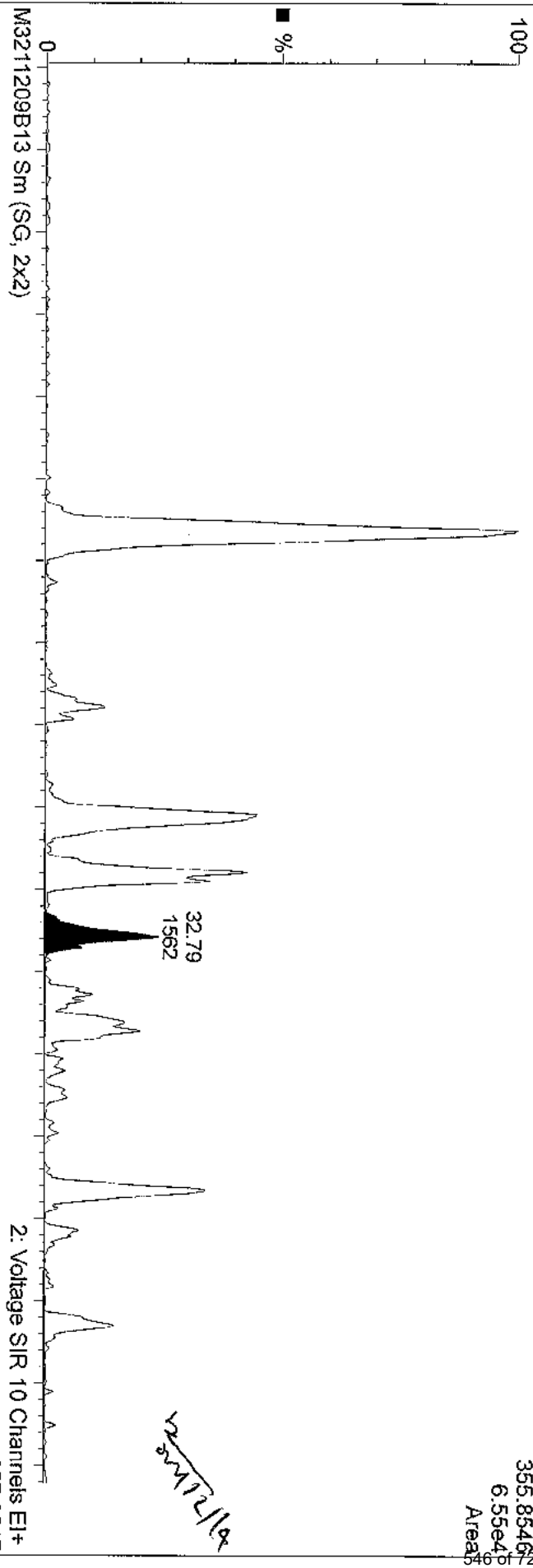
M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

355.8546

6.55e4

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

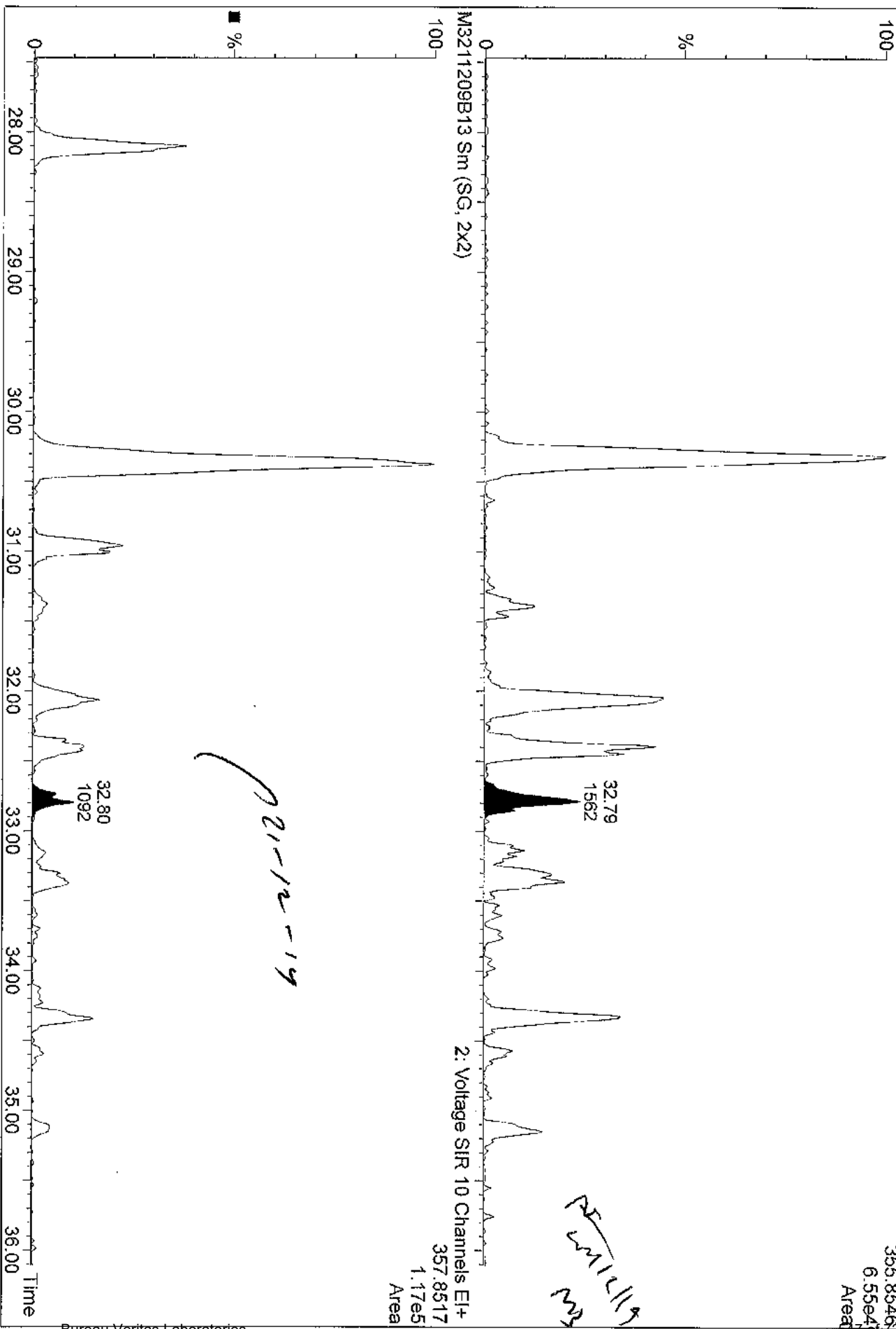
M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

355.8546

6.55e4

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

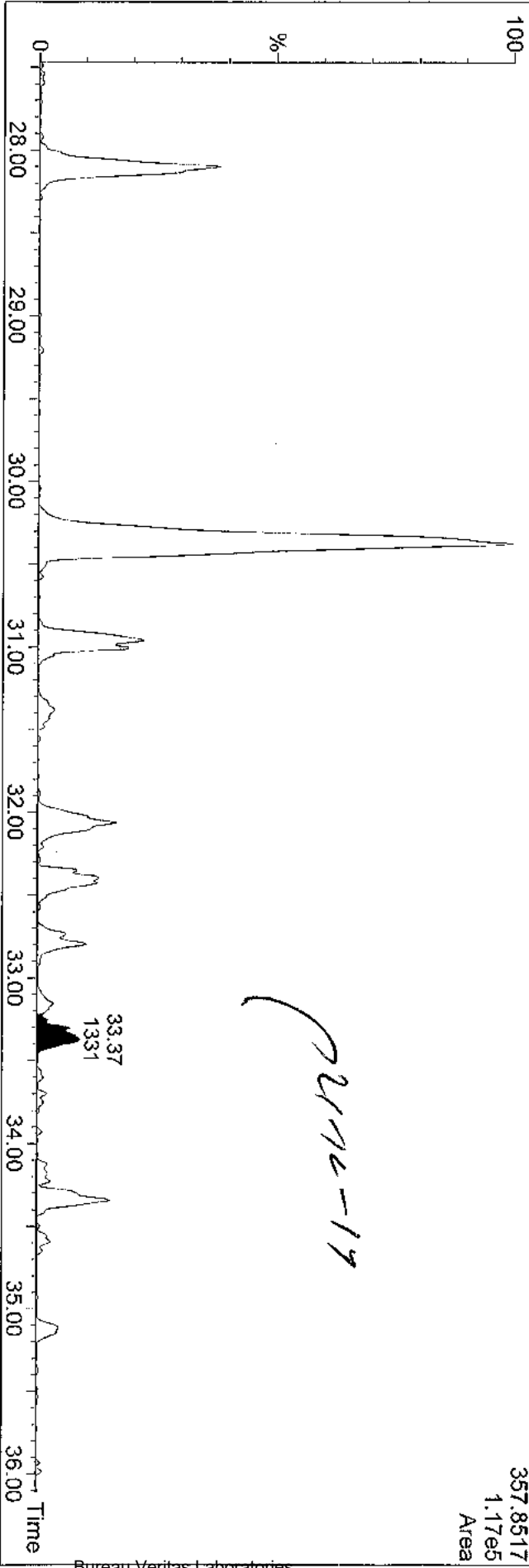
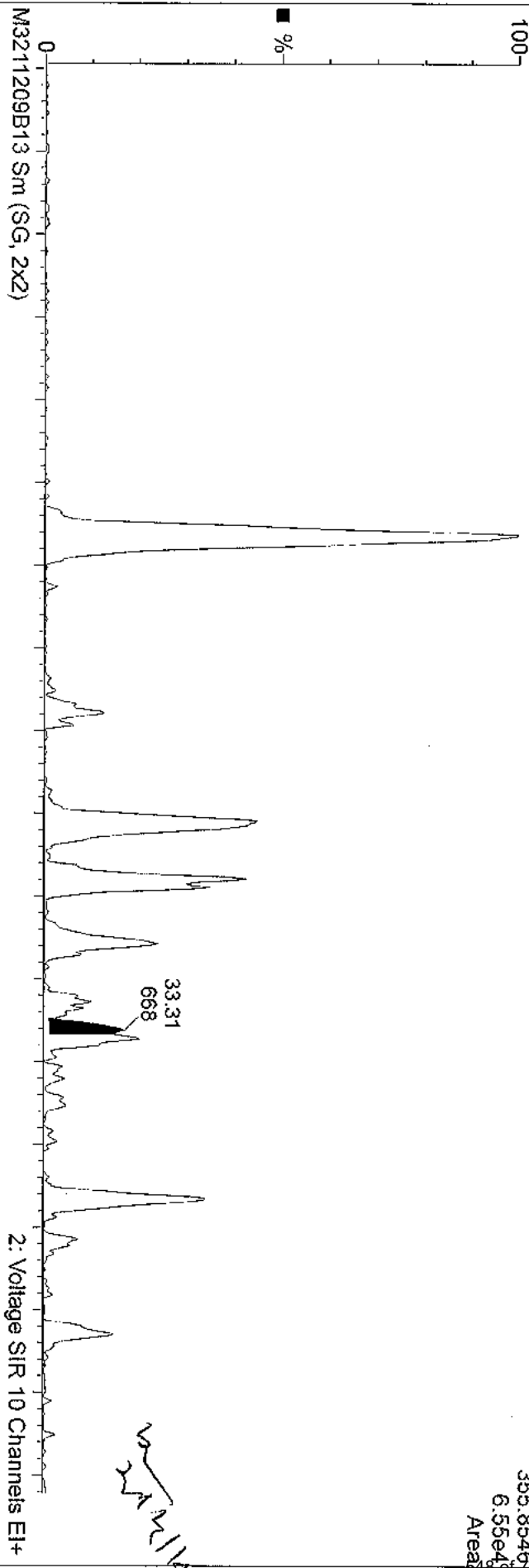
M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

355.8546

6.55e4

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

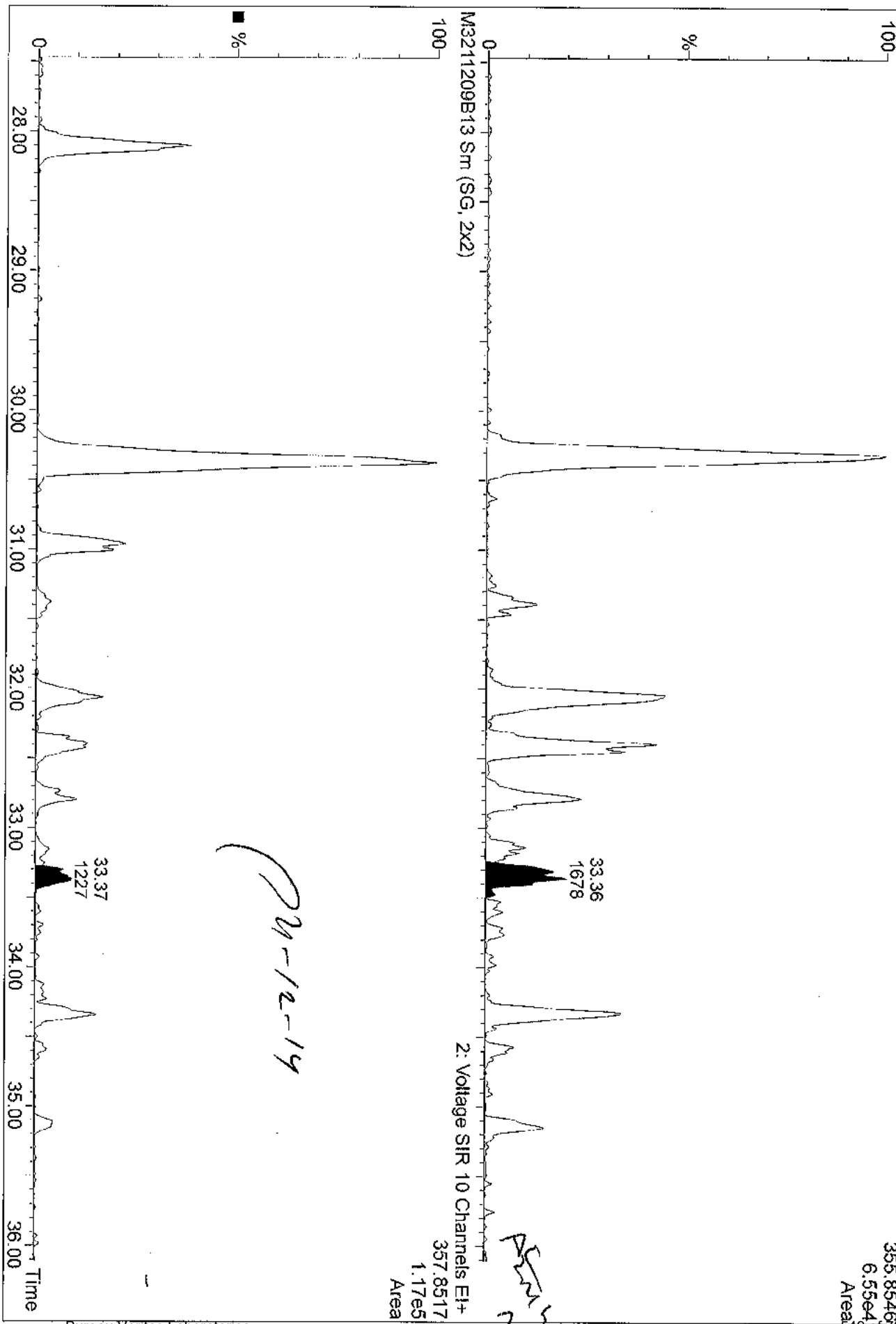
M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

355.8546

6.55e4

Area



REZ798-01R

AutoSpec Ultima - M536

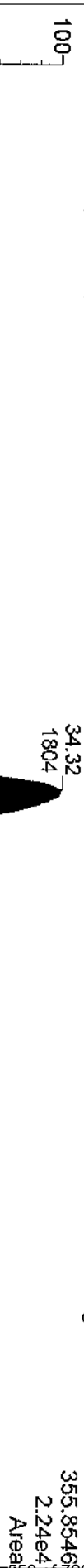
10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

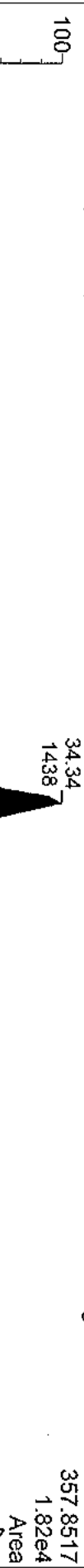
M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+



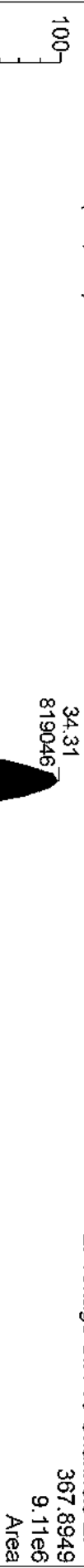
M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+



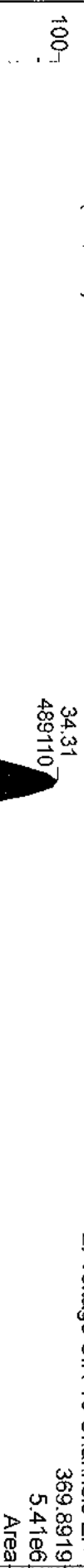
M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+



M3211209B13 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+



33.40 33.60 33.80 34.00 34.20 34.40 34.60 34.80 35.00 35.20 Time

REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

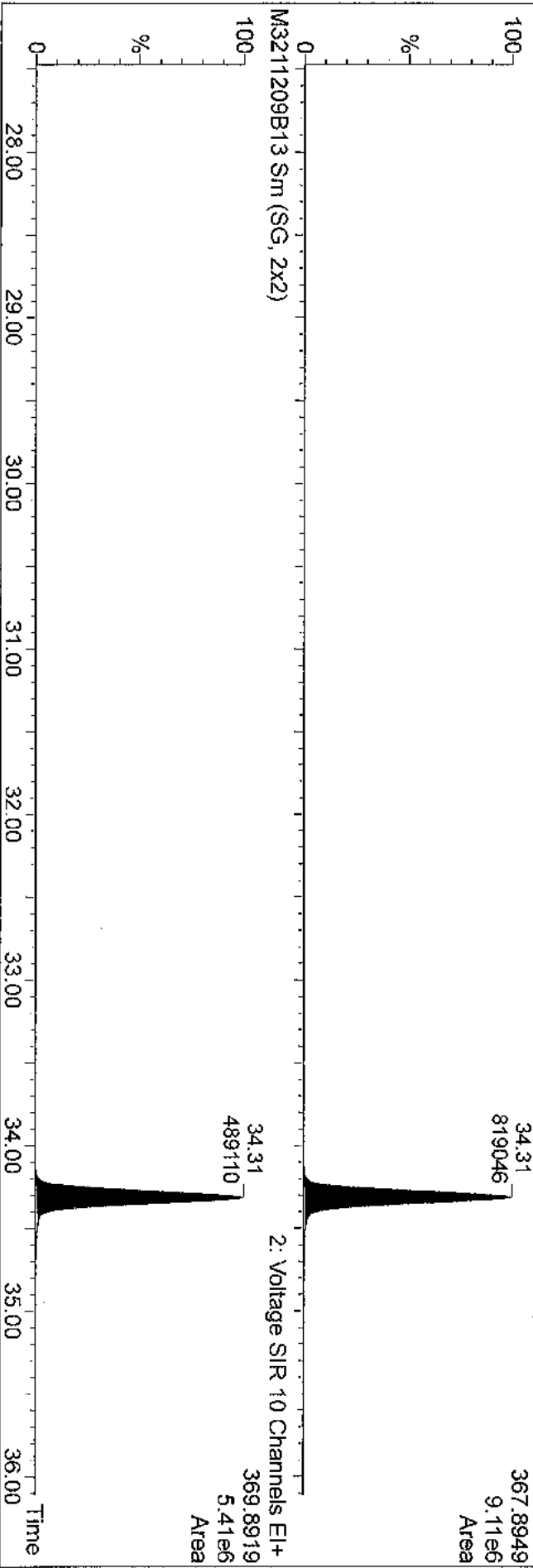
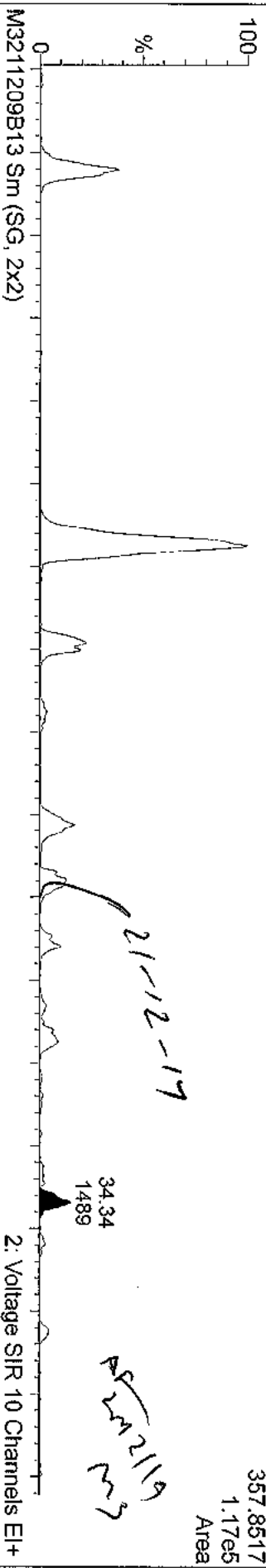
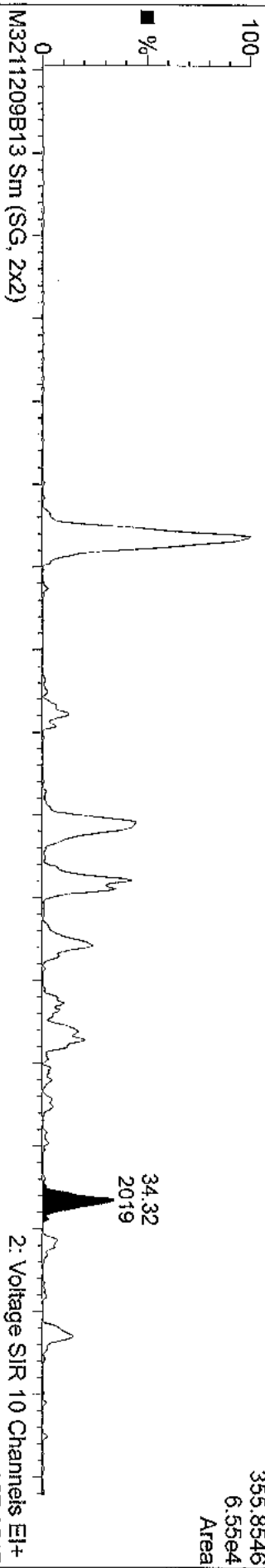
M3211209B13 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

355.8546

6.55e4

Area



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

M3211209B13 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+

373.8207
1.30e6
Area

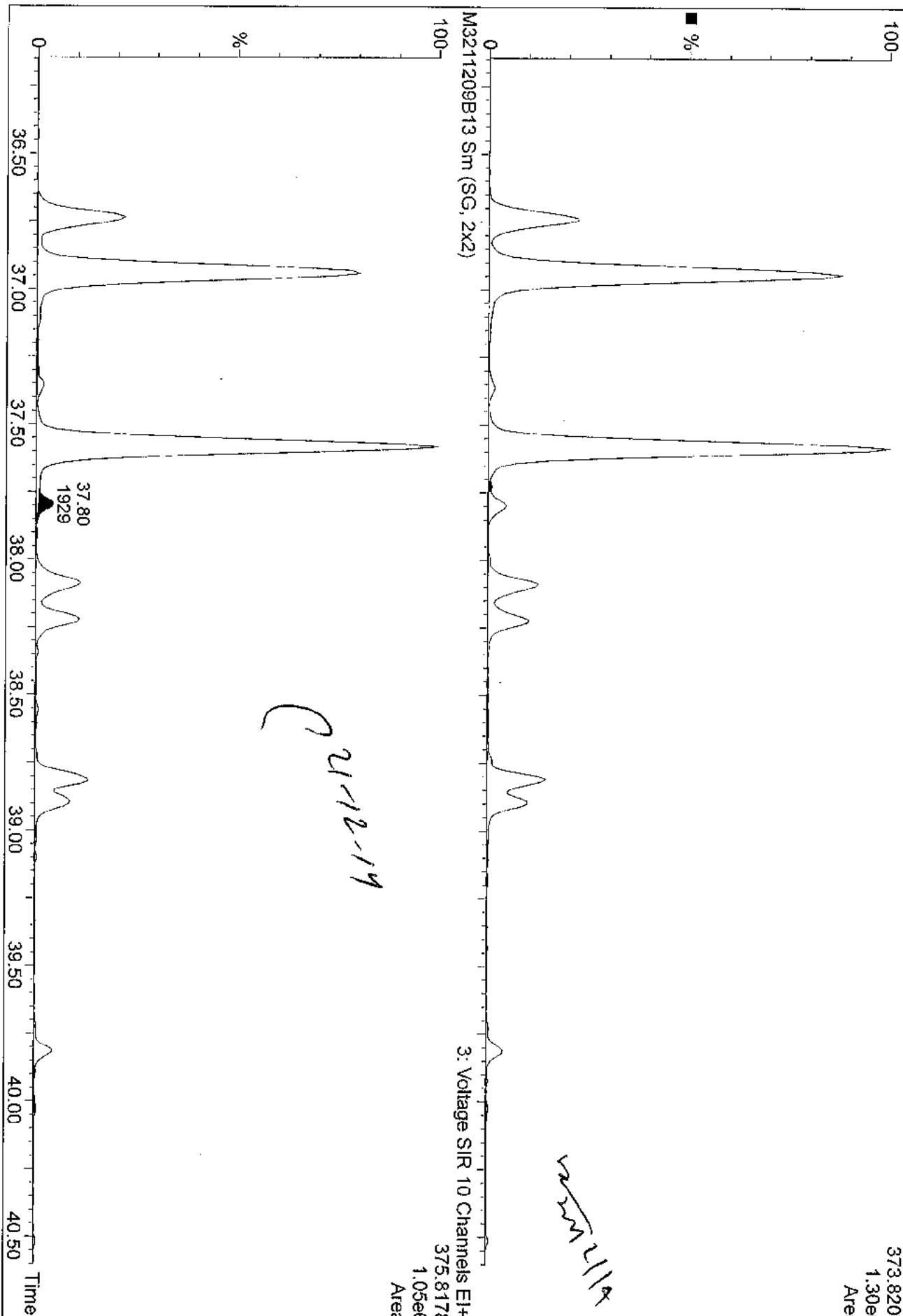
M3211209B13 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+

375.8178
1.05e6
Area

C2112-14

12/11/21



REZ798-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-07*, S

07:39:35

M3211209B13 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

100

373.8207

%

1.30e6

0

Area

M3211209B13 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

100

375.8178

%

1.05e6

0

Area

%

21-12-19

21-12-19

36.50 37.00 37.50 38.00 38.50 39.00 39.50 40.00 40.50 Time

File: M3211209B14

Sample

Acqu 2021/10/12 8:30

Sampl REZ799-01R

Conv REZ799-01R

Sampl 20.0017

Run

File: 1127A_1613_5pt

7716247: APEX_PDI-CORE-01-A-08*, S

Fac 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs. Resp	pg	Code	TEF	250 Max TT	LOD (pg)	S/N	Mod. User	RRF Mean	% Rec
1	2,3,7,8-TCDF	304	24.65	1040	0.87	2242	-0.148709	RT>3S	-0.015		-0.148709	*	Op-O	0.97161	-
2	1,2,3,7,8-PeCDF	306	24.57	1202	no							*			
		340	-	0	-	0	-0.160426		-0.008		-0.160426	-		0.979466	-
		342	31.93	0	-							-			
3	2,3,4,7,8-PeCDF	340	33.61	1193	1.42	2033	0.138957		0.069		-0.14419	*	xl	1.089756	-
		342	33.58	840	OK							*			
4	1,2,3,4,7,8-HxCDF	374	38.10	2011	1.24	3628	0.285776		0.029		-0.14132	5		1.159483	-
		376	38.11	1617	yes							4			
5	1,2,3,6,7,8-HxCDF	374	38.24	1787	1.35	3115	0.242879		0.024		-0.149691	4		1.094548	-
		376	38.25	1328	yes							4			
6	2,3,4,6,7,8-HxCDF	374	38.90	1458	1.24	2636	0.156187		0.016		-0.139267	4		1.176583	-
		376	38.89	1178	yes							4			
7	1,2,3,7,8,9-HxCDF	374	-	0	-	0	-0.149327		-0.015		-0.149327	-		1.097314	-
		376	39.70	0	-							-			
8	1,2,3,4,6,7,8-HpCDF	408	41.46	37747	1.08	72647	6.885215		0.069		-0.123587	144		1.208367	-
		410	41.43	34899	yes							146			
9	1,2,3,4,7,8,9-HpCDF	408	42.75	714	2.28	1028	-0.126878		-0.001		-0.126878	*		1.177018	-
		410	42.71	313	no							*			
10	OCDF	442	45.45	6693	0.89	14205	2.587247		0.003		-0.114714	56	xl	1.239902	-
		444	45.41	7512	OK							51			
11	2,3,7,8-TCDD	320	-	0	-	0	-0.140071		-0.140		-0.140071	-		1.240957	-
		322	25.73	0	-							-			
12	1,2,3,7,8-PeCDD	356	-	0	-	0	-0.154948		-0.077		-0.154948	-		1.116262	-
		358	34.31	0	-							-			
13	1,2,3,4,7,8-HxCDD	390	-	0	-	0	-0.142478		-0.014		-0.142478	-		1.111453	-
		392	39.05	0	-							-			
14	1,2,3,6,7,8-HxCDD	390	39.19	-1116	1.24	-2016	-0.230799	6,7,8-HxCDD	-0.023		-0.141436	6	xl	1.119648	-
		392	39.17	-900	OK							4			
15	1,2,3,7,8,9-HxCDD	390	39.53	-1031.68	1.24	-1863.68	-0.22576	7,8,9-HxCDD	-0.023		-0.141724	4	xl	1.117372	-
		392	39.50	-832	OK							3			
16	1,2,3,4,6,7,8-HpCDD	424	42.40	8811	1.13	16581	2.493788		0.025		-0.112434	57		1.084762	-
		426	42.36	7769	yes							51			
17	OCDD	458	45.35	35279	0.93	73096	15.74386		0.016		-0.120599	360		1.054514	-
		460	45.29	37816	yes							326			
18	13C-2,3,7,8-TCDF	316	24.58	1293777	0.8	2922137	1666.386				0.815	4919		2.144584	83
		318	24.57	1628361	yes							8261			
19	13C-1,2,3,7,8-PeCDF	352	31.92	1416101	1.65	2275182	1764.004				2.013	2664		1.577374	88
		354	31.89	859082	yes							1360			
20	13C-2,3,4,7,8-PeCDF	352	33.59	1656867	1.6	2690815	2144.758				2.069	3905		1.534347	107
		354	33.57	1033948	yes							2022			
21	13C-1,2,3,4,7,8-HxCDF	384	38.09	756378	0.53	2180415	1763.706				2.666	1231		1.332773	83
		386	38.09	1433037	yes							2815			
22	13C-1,2,3,6,7,8-HxCDF	384	38.22	804943	0.52	2343087	1752.983				2.476	1269		1.435092	88
		386	38.20	1538144	yes							2963			
23	13C-2,3,4,6,7,8-HxCDF	384	38.89	995974	0.53	2869356	2301.822				2.655	1777		1.338987	115
		386	38.87	1873382	yes							4149			
24	13C-1,2,3,7,8,9-HxCDF	384	39.73	683108	0.53	1976597	1696.361				2.84	1114		1.251033	85
		386	39.69	1293489	yes							2612			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.45	543049	0.45	1746200	1480.492				2.291	1585		1.266359	74
		420	41.41	1203151	yes							2751			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.74	520969	0.46	1662218	1678.476				2.729	1421		1.063266	84
		420	42.71	1141249	yes							2467			
27	13C-2,3,7,8-TCDD	332	25.65	697077	0.82	1551731	1637.329				1.591	3235		1.159041	82
		334	25.70	854654	yes							2830			
28	13C-1,2,3,7,8-PeCDD	368	34.32	867551	1.63	1401015	2085.601				2.026	2779		0.821541	104
		370	34.29	533404	yes							3747			
29	13C-1,2,3,4,7,8-HxCDD	402	39.08	819908	1.28	1460166	1721.199				2.641	2635		0.910836	86
		404	39.06	640259	yes							1613			
30	13C-1,2,3,6,7,8-HxCDD	402	39.18	862084	1.22	1567873	1768.708				2.528	2683		0.951752	88
		404	39.15	703789	yes							1717			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.39	634099	1.07	1225774	1397.787				2.474	2039		0.941539	70
		438	42.36	591676	yes							1758			
32	13C-OCDD	470	45.34	872989	0.98	1760962	2505.598				1.443	3930		0.754584	63
		472	45.29	887973	yes							5871			
33	13C-1,2,3,4-TCDD	332	25.35	745574	0.84	1635355	35.281				0.033	3565		46352.42	2
		334	25.34	889780	yes							3047			
34	13C-1,2,3,7,8,9-HxCDD	402	39.52	1012915	1.10	1862778	35.041				0.042	3050		53159.29	2
		404	39.49	849862	yes							1929			
35	13C-2,3,7,8-TCDD	328	25.67	205634	1	411268	199.757				0.293	1865		2.517916	100
		328	25.62	205634	yes							1865			
36	Totals Tetra-Furans	304	-	0	-	0	2.193284			6	-0.148709	-		0.97161	-
		306	26.00	0	-							-			
37	Totals Tetra-Dioxins	320	-	0	-	0	0.249464			1	-0.140071	-		1.240957	-
		322	26.00	0	-							-			
38	Totals Penta-Furans	340	-	0	-	0	6.581597			6	-0.151875	-		1.034611	-

		342	34.00	0	-					-			
39	Totals Penta-Dioxins	356	-	0	-	0	0.208882	1	-0.154948	-		1.116262	-
		358	34.00	0	-					-			
40	Totals Hexa-Furans	374	-	0	-	0	5.40221	7	-0.144751	-		1.132007	-
		376	39.50	0	-					-			
41	Totals Hexa-Dioxins	390	-	0	-	0	2.156529	3	-0.142898	-		1.108192	-
		392	39.50	0	-					-			
42	Totals Hepta-Furans	408	-	0	-	0	10.61216	2	-0.125211	-		1.192692	-
		410	42.50	0	-					-			
43	Totals Hepta-Dioxins	424	-	0	-	0	4.963659	2	-0.112434	-		1.084762	-
		426	42.50	0	-					-			

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg		S/N	Mod.User	RRF Mean	%Rec
36	Totals Tetra-Furans	304	21.62	683	0.79	1544	0.108791		2		0.97161	-
		306	26.00	861	no				2			
36	Totals Tetra-Furans	304	21.86	3656	0.75	8511	0.569449		13		0.97161	-
		306	26.00	4855	yes				14			
36	Totals Tetra-Furans	304	22.57	-1951.95	0.77	-4486.95	-0.317263	Tetra-Furans NDR	8	XL	0.97161	-
		306	26.00	-2535	OK				6			
36	Totals Tetra-Furans	304	22.89	4040	0.77	9260	0.652245		10		0.97161	-
		306	26.00	5220	yes				11			
36	Totals Tetra-Furans	304	23.32	2521	0.82	5586	0.393467		7		0.97161	-
		306	26.00	3065	yes				8			
1	2,3,7,8-TCDF	304	24.65	1040	0.87	2242	0.157887	RT>3S	2		0.97161	-
		306	24.57	1202	no				2			
36	Totals Tetra-Furans	304	24.65	1040	0.87	2242	0.157887		2		0.97161	-
		306	24.57	1202	yes				2			
36	Totals Tetra-Furans	304	26.49	1182	0.74	2773	0.196073		3	XL	0.97161	-
		306	26.00	1591	OK				3			
36	Totals Tetra-Furans	304	26.96	1087	0.66	2746	0.194164		3	XL	0.97161	-
		306	26.00	1659	OK				3			

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RAF Mean	%Rec
37	Totals Tetra-Dioxins	320	24.07	1088	0.83	2406	0.249464	3	xl	1.240957	.
		322	26.00	1318	OK			3			

	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
38	Totals Penta-Furans	340	27.75	27774	1.6	45170	3.524238	63		1.034611	-
		342	34.00	17895	yes			62			
38	Totals Penta-Furans	340	30.01	10740	1.46	18112	1.413128	16	xl	1.034611	-
		342	34.00	7372	OK			21			
38	Totals Penta-Furans	340	30.90	1179	1.29	2095	0.163455	2		1.034611	-
		342	34.00	916	no			3			
38	Totals Penta-Furans	340	31.14	3210	1.61	5198	0.405557	4	xl	1.034611	-
		342	34.00	1988	OK			4			
38	Totals Penta-Furans	340	32.65	2773	1.32	4882	0.380902	6		1.034611	-
		342	34.00	2108	yes			7			
3	2,3,4,7,8-PeCDF	340	33.61	1193	1.42	2033	0.138957	3	xl	1.089756	-
		342	33.58	840	OK			3			
38	Totals Penta-Furans	340	33.93	5894	1.78	9213	0.718814	14		1.034611	-
		342	34.00	3319	yes			13			

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
39	Totals Penta-Dioxins	356	30.37	2254	1.55	3708.194	-0.47546	6			
		358	34.00	-1454.194	OK		Penta-Dioxins NDR	14	xl	1.116262	-
39	Totals Penta-Dioxins	356	32.43	984	1.51	1633	0.206882	3			
		358	34.00	649	yes			4		1.116262	-

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	DG	S/N	Mod.User	RRF Mean	%Rec
40	Totals Hexa-Furans	374	36.75	5210	1.35	9064	0.68241	11		1.132007	-
		376	39.50	3854	yes			10			
40	Totals Hexa-Furans	374	36.95	17315	1.32	30466	2.293723	37		1.132007	-
		376	39.50	13152	yes			36			
40	Totals Hexa-Furans	374	37.59	17874	1.21	32691	2.461239	42		1.132007	-
		376	39.50	14817	yes			42			
40	Totals Hexa-Furans	374	37.82	657	1.23	1189	0.089517	2		1.132007	-
		376	39.50	533	no			2			
4	1,2,3,4,7,8-HxCDF	374	38.10	2011	1.24	3628	0.285776	5		1.159483	-
		376	38.11	1617	yes			4			
5	1,2,3,6,7,8-HxCDF	374	38.24	1787	1.35	3113	0.242879	4		1.094508	-
		376	38.25	1328	yes			4			
40	Totals Hexa-Furans	374	38.82	2105	1.3	3719	0.279996	5		1.132007	-
		376	39.50	1614	yes			4			
6	2,3,4,6,7,8-HxCDF	374	38.90	1458	1.24	2636	0.156187	4		1.176583	-
		376	38.89	1178	yes			4			

40	Totals Hexa-Furans	374	39.83	506	1.29	898	0.067608	1	1.132007	-
		376	39.50	392	no			1		

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.51	3775	1.32	6641	0.793788	12		1.108192	-
		392	39.50	2865	yes			11			
41	Totals Hexa-Dioxins	390	38.14	752	1.2	1379	0.164829	3		1.108192	-
		392	39.50	627	yes			3			
41	Totals Hexa-Dioxins	390	38.42	5601	1.27	10022	1.197912	19		1.108192	-
		392	39.50	4421	yes			10			
14	1,2,3,6,7,8-HxCDD	390	39.19	-1116	1.24	-2016	-0.230799	6	xl	1.119648	-
		392	39.17	-900	OK			4			
15	1,2,3,7,8,9-HxCDD	390	39.53	-1031.68	1.24	-1863.68	-0.22576	4	xl	1.093474	-
		392	39.50	-832	OK			3			

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
8	1,2,3,4,6,7,8-HpCDF	408	41.46	37747	1.08	72647	6.285215	144		1.208367	-
		410	41.43	34899	yes			146			
42	Totals Hepta-Furans	408	41.82	20001	1.12	37891	3.726946	75		1.192692	-
		410	42.50	17890	yes			74			
9	1,2,3,4,7,8,9-HpCDF	408	42.75	714	2.28	1028	0.104991	3		1.177018	-
		410	42.71	813	no			1			

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
43	Totals Hepta-Dioxins	424	41.75	8891	1.18	16448	2.469871	62		1.084762	-
		426	42.50	7557	yes			50			
16	1,2,3,4,6,7,8-HpCDD	424	42.40	8811	1.13	16581	2.493788	57		1.084762	-
		426	42.36	7769	yes			51			

Last modified: Mon Nov 29 13:04:11 2021
Job Code:

PRINTED: Sat Dec 11 09:05:35 2021

Name: M3211209B14
Text: REZ799-01R

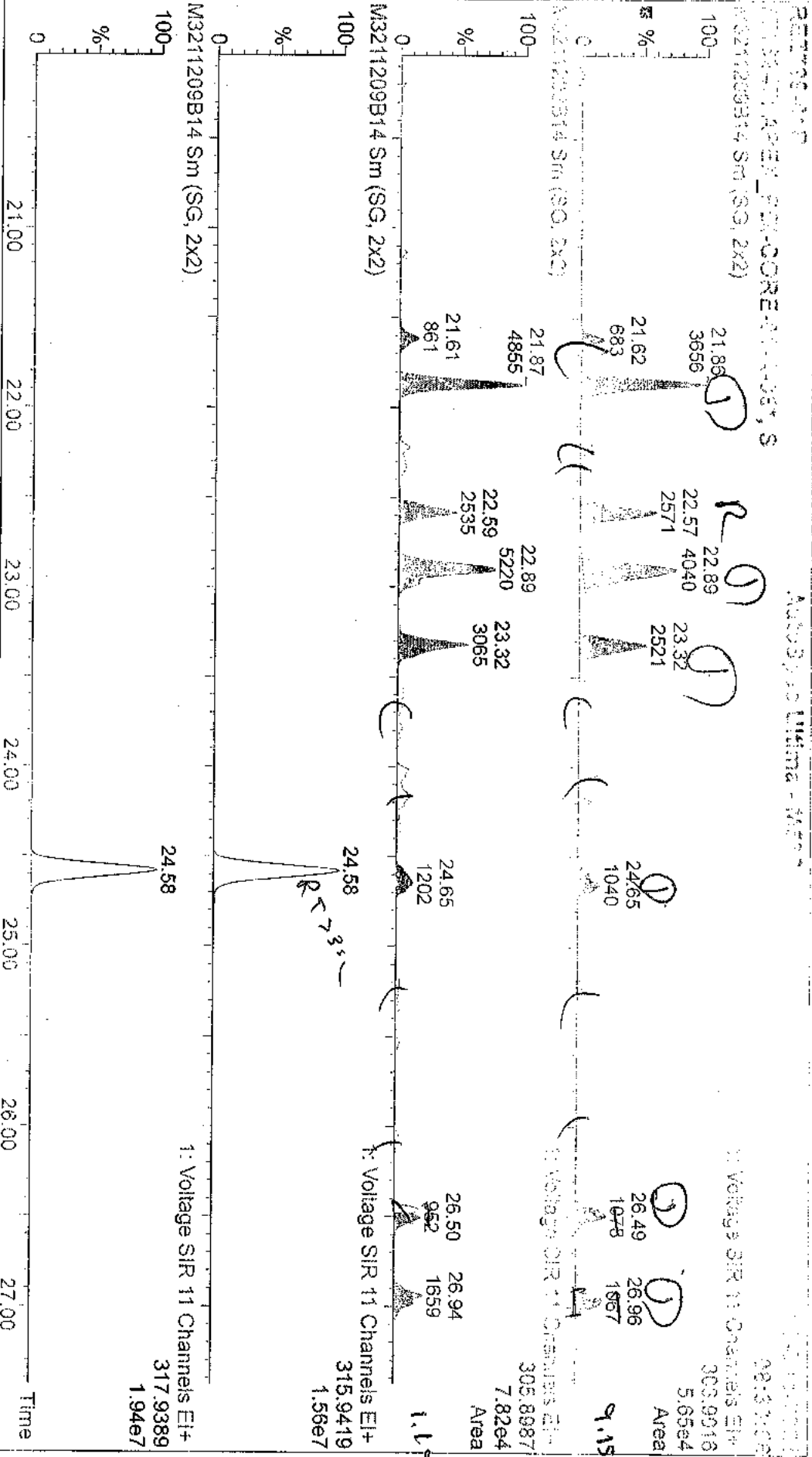
36 Totals, Total: Purans

REZ799-01R

Acidic, no Lignin - 1470

6

4.3963



Quantify Sample Report

Sample Name: M3211209B14
 Sample ID: M3211209B14
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:03:31 2021

Name: M3211209B14
 Text: RM799-01R

37. Total: Tetra-Dioxins

M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



Time

Quantity Sample Report

Job Code:

Printed: 5-11-2011 09:05:35 AM

Name: M3211209B14
Text: RZ799-01R

351-0137-2-3178-TCDD

7710267: APEX_FELDSCOPE-01-4-06-05, 5

M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



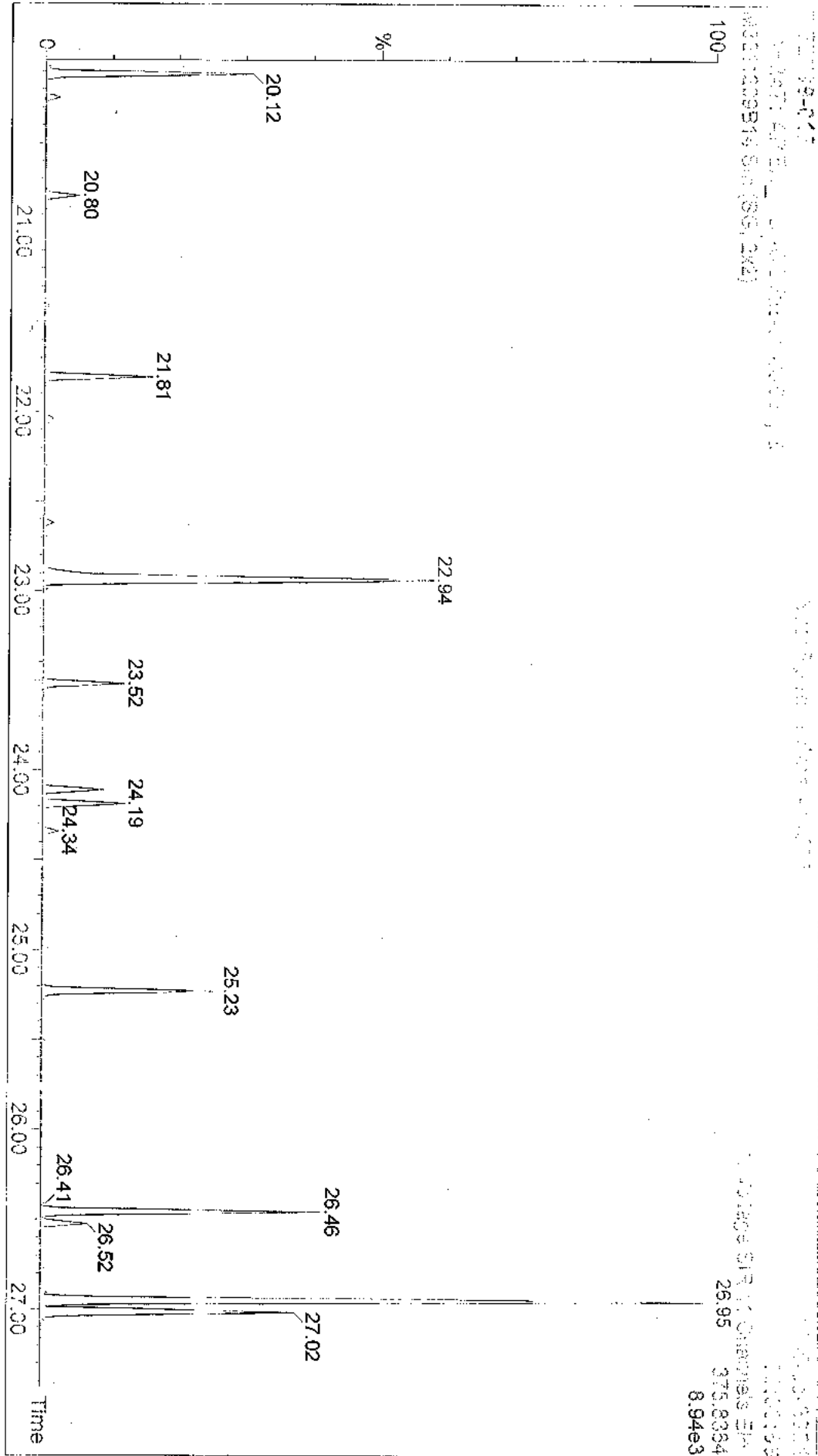
Quantify Sample Report

Case Modified: Mon Nov 29 15:04:11 2011
Job Code:

Sample Name: 101203 ST 11 Chromat 2011

Name: N3211209B14
Text: 322795-01R

381 Hexa DPE



Job Code:

Sample Name:

Name: M3211209B14

Text: R22799-01R

39: Function: Lockmass

20.39 20.77 21.32 21.48 21.83 22.34 22.62 23.05 23.45 24.00 24.40 24.64 25.13 25.60 25.73 26.03 26.32 26.79 26.85 26.95 8.38e5

100

%

21.00 22.00 23.00 24.00 25.00 26.00 27.00 Time

NAME: M0211209B14
 TEXT: REZ799-01R
 PRINTED: Sat Dec 11 08:05:15 2021

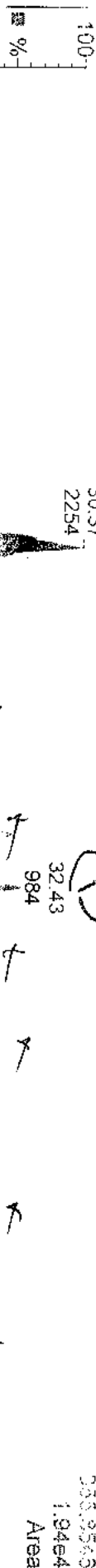
①

3.3823

Name: M0211209B14
 Text: REZ799-01R

41: Totals: Peaks-Dioxins

M0211209B14 Sm (SG, 2x2)



M0211209B14 Sm (SG, 2x2)



M0211209B14 Sm (SG, 2x2)

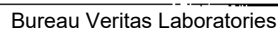


M0211209B14 Sm (SG, 2x2)



Printed: Sat 11 09:05:35 2021

42: Hepu, DPE



Quantify Sample Report

Name: M321209B14
 Text: RZ799-01R
 Job Code: RZ799-01R
 Printed: Sat Dec 11 09:05:35 2021

Name: M321209B14
 Text: RZ799-01R

43: Function 2 Lockmass

12/11/2021

12/11/2021

12/11/2021

12/11/2021

12/11/2021

12/11/2021

12/11/2021

12/11/2021

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12/11/2021

12/11/2021

12/11/2021

12/11/2021

12/11/2021

12/11/2021

12/11/2021

28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 Time

%

27.97 28.28 29.04 29.47 30.02 30.74 31.34 31.61 32.13 32.44 32.98 33.54 33.92 34.07 34.74 34.87 35.95 36.82e5

Quantify Sample Report

Job Code:

Printed: Sat Dec 11 01:05:15 2021

Name: M3211209B14
Text: RE799-01R

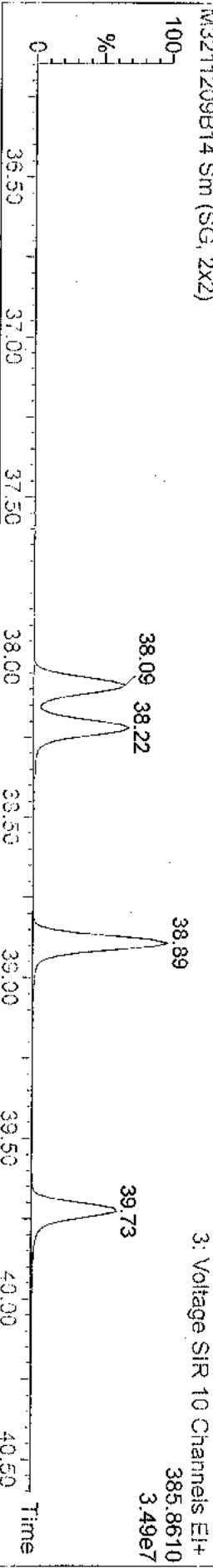
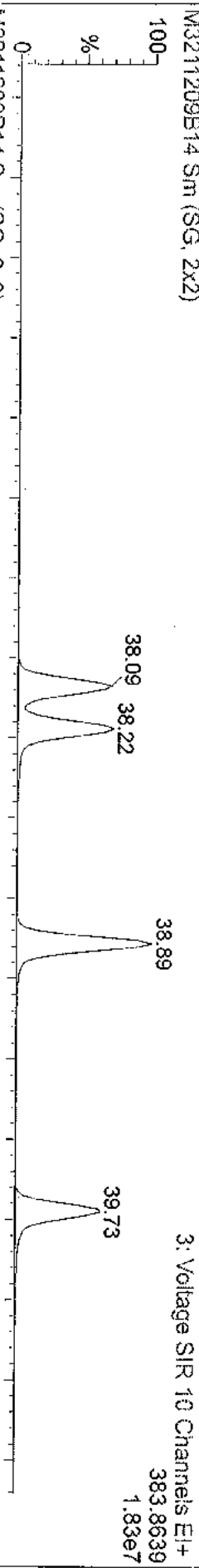
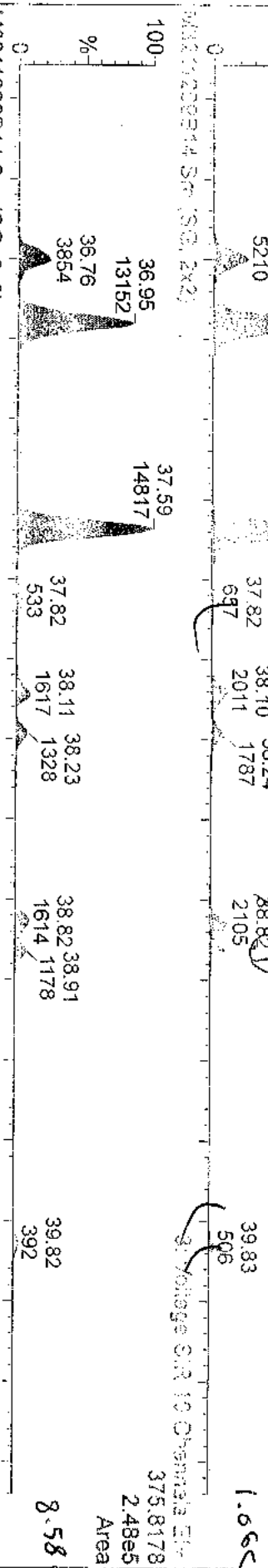
44: Total Hex-Furans

4

7.24<3

Autospec 31000 - MS00

10-10-2021



Quantify Sample Report

Job Code:

Printed: Sat Dec 11 09:05:35 2021

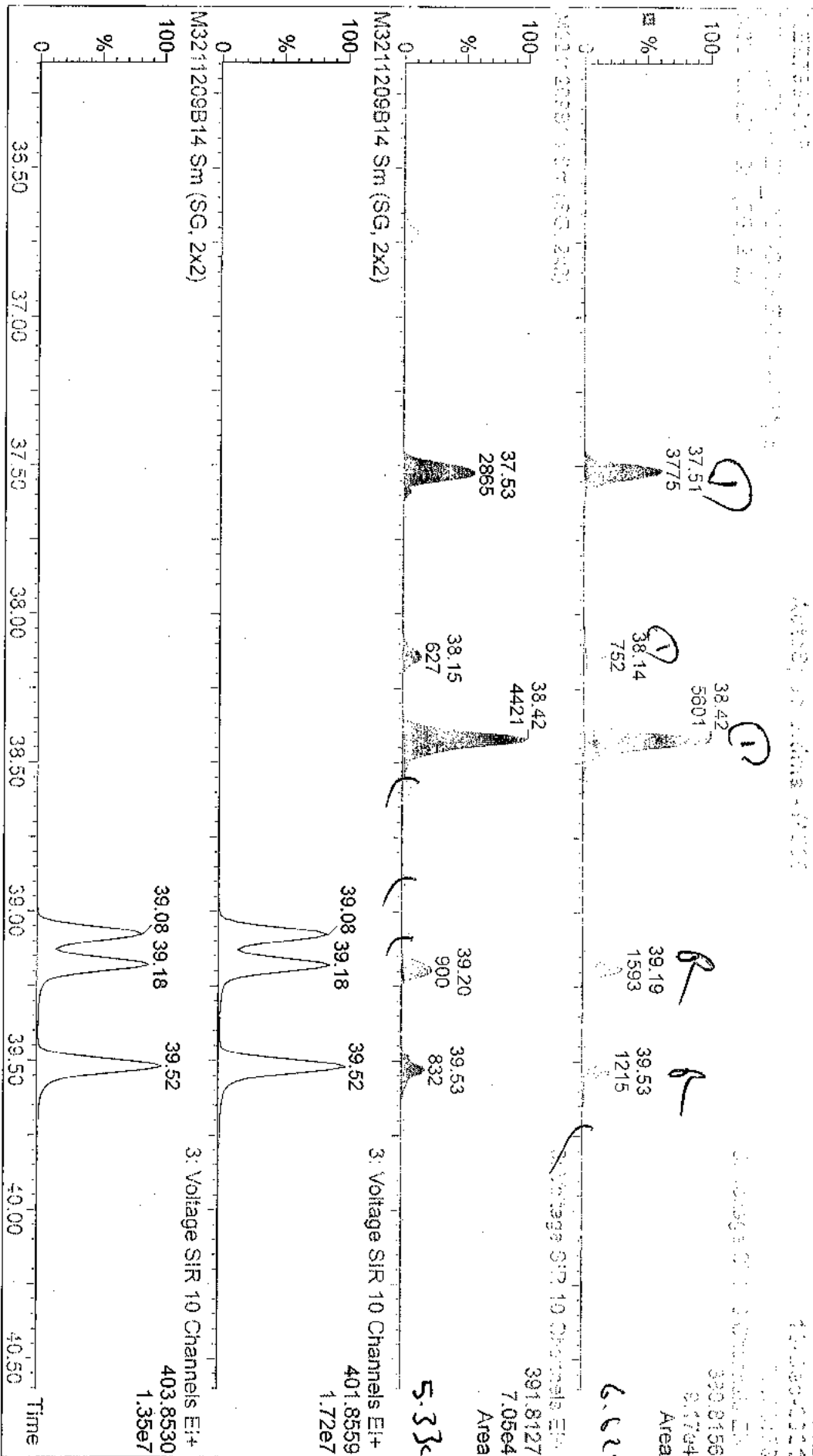
Name: M3211209B14
Tact: RM2799-01R

45: Tokals Hexa-Dioxins

3

4.68e3

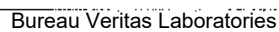
67 of 729



NO. 1613

Printed: Sat Dec 11 09:05:35 2021

45: OCTA DPT



Quantify Sample Report

Job Code:

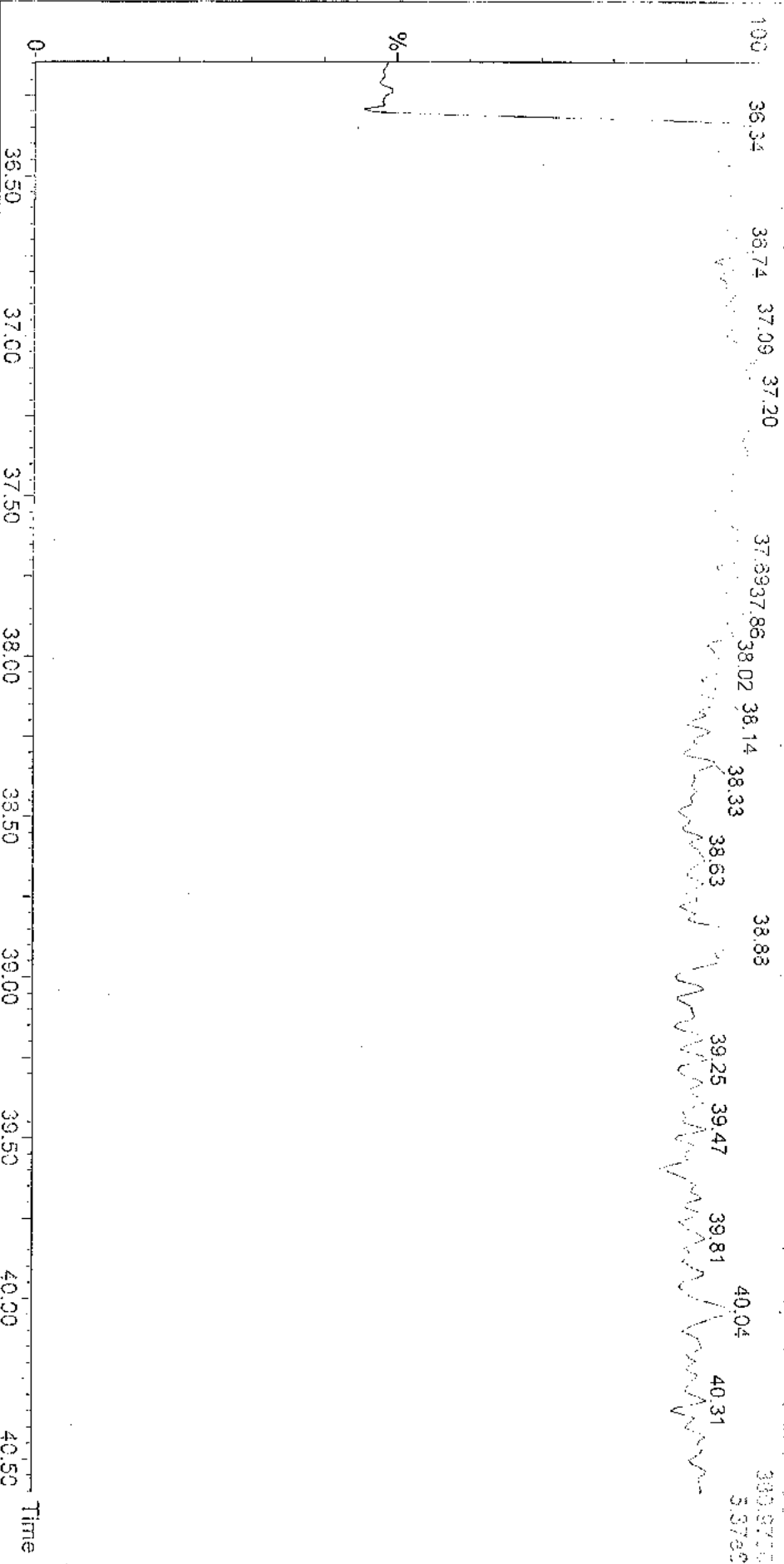
Printed: Sat Dec 11 09:05:35 2021

Name: M3211209814
Text: R22799-01R

41: Function 3 Lockmass

7716247 PDI-C001134-A-08*

Acquisition Time: 11:00



Quantity Sample Report

Job Code:

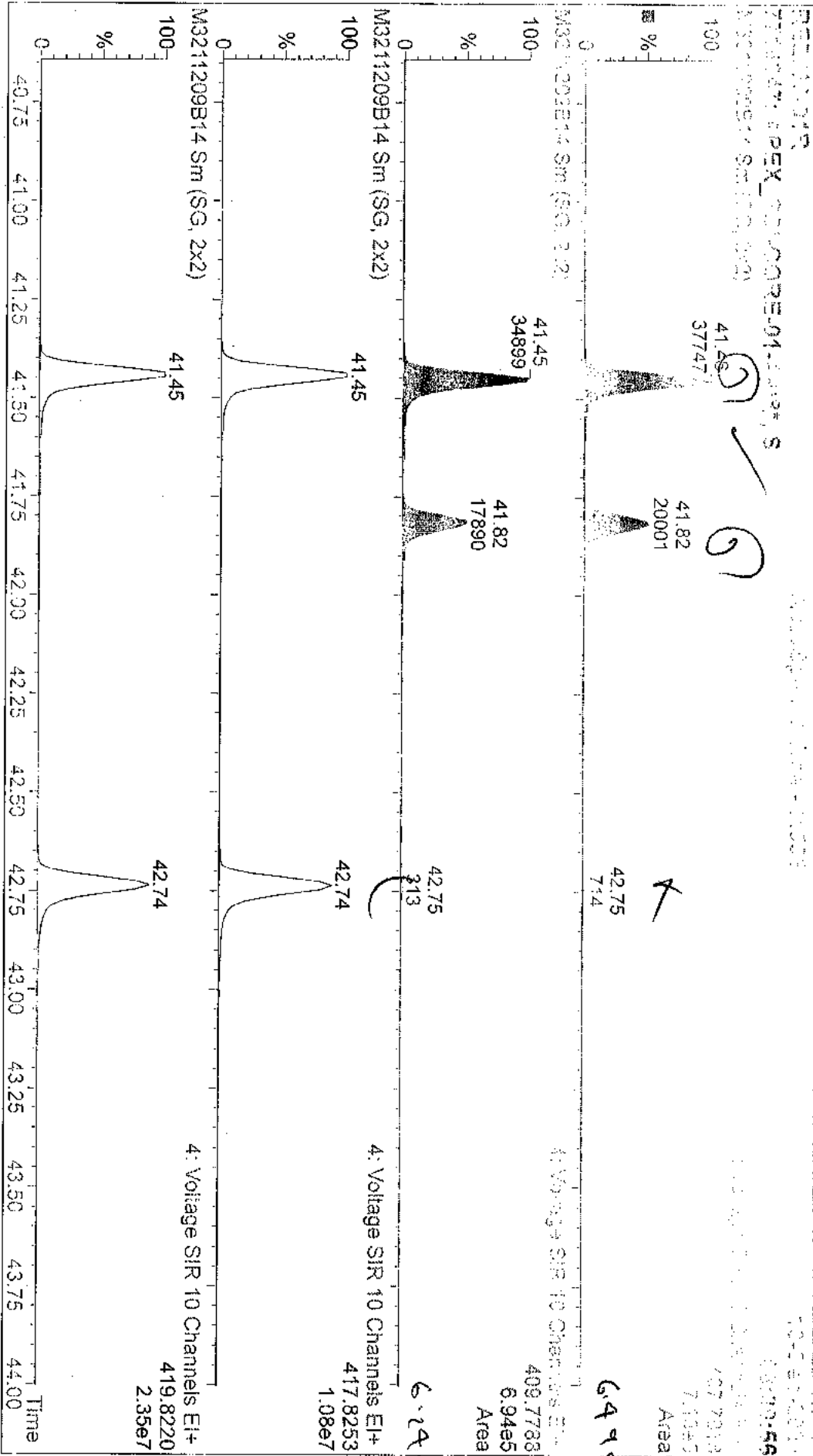
Printed: Sat Dec 11 07:35:35 2021

Name: M3211209B14
Text: 222795-01R

481 Topois. Media: Fuels

(2)

4.9333



Quantity Sample Report

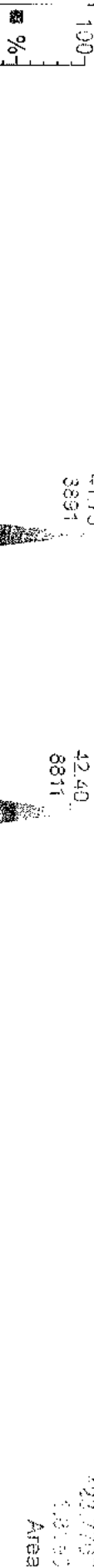
Sample ID: M3211209B14
 Job Code: REZ799-01R
 Printed: 2012-09-11 09:05:13

Name: M3211209B14
 Text: REZ799-01R

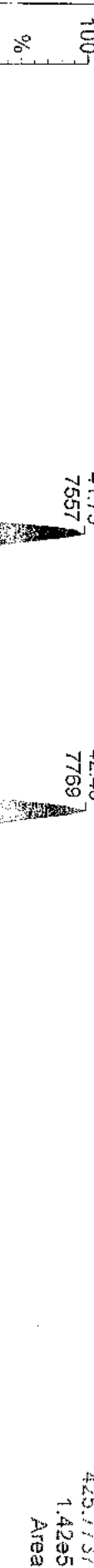
49: Totals: Hepta-Dioxins

77-0247: APEX_10-009RE-01-00001.8

M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



M3211209B14 Sm (SG, 2x2)



4: Voltage SIR 10 Channels EI+
 437,8140
 1.12e7

2

Job Code: 11/01/2021 10:00:00 AM

Job Date: 11/01/2021 10:00:00 AM

Name: M321209814
Text: REX799-01R

50: Nona, DP3

77799-01R

11/01/2021 10:00:00 AM

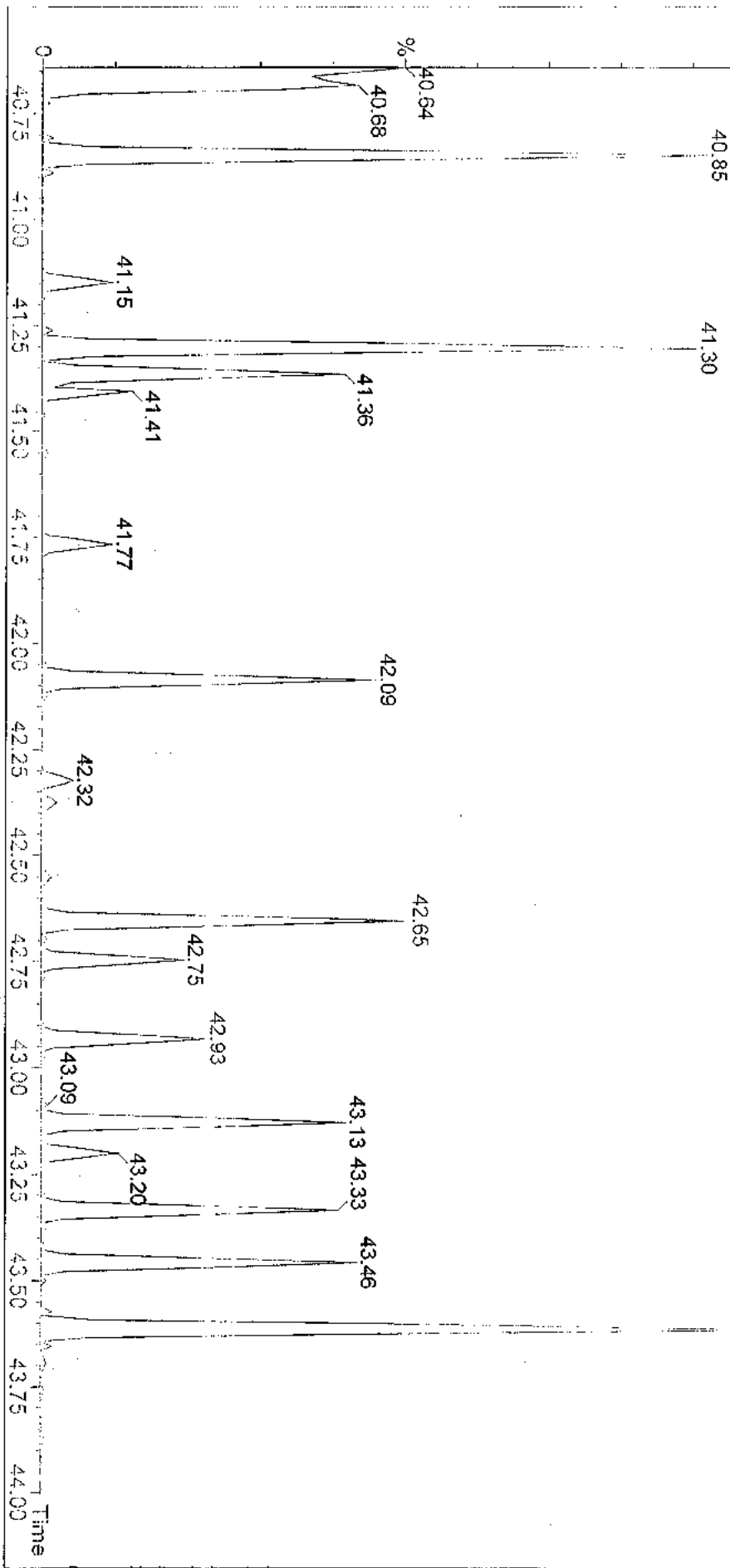
11/01/2021 10:00:00 AM

11/01/2021 10:00:00 AM

100%

43.61

11/01/2021



Quantity Sample Report

Date Modified: Nov 29 13:07
Job Code:

Printed: Sat Dec 11 09:05:11 2011

Name: N3211209B14
Text: REZ799-01R

51: Function 4 Lockmass

AutoSave (V) 11/29/2011 11:53:56

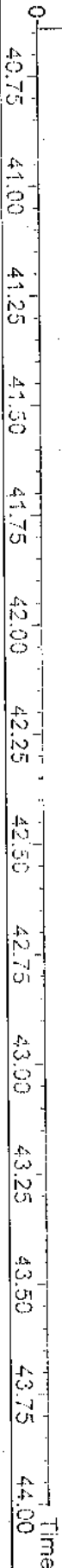
40-Dec-11 13:30:57

3.30:57

430.6729 3.1563

100 40.87 40.98 41.13 41.32 41.71 41.91 42.01 42.17 42.39 42.75 42.99 43.52 43.79 430.6729 3.1563

%



Quantity Sample Report

Job Code: 1102-01-01
 Date: 11/03/01
 Printed: 11/03/01 10:05:35 AM

Name: M3211209B14
 Text: RM799-01R

①

1.93

11/03/01

Area: 3.500E+004

10-2-00-01-01

02:29:10

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.35
35279

457.7377
5.18e5
Area

%

2.65

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.35
37816

459.7348
5.27e5
Area

%

2.94

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
872989

469.7780
1.18e7
Area

%

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
887973

471.7750
1.28e7
Area

%

44.50 45.00 45.50 46.00 46.50 47.00 47.50

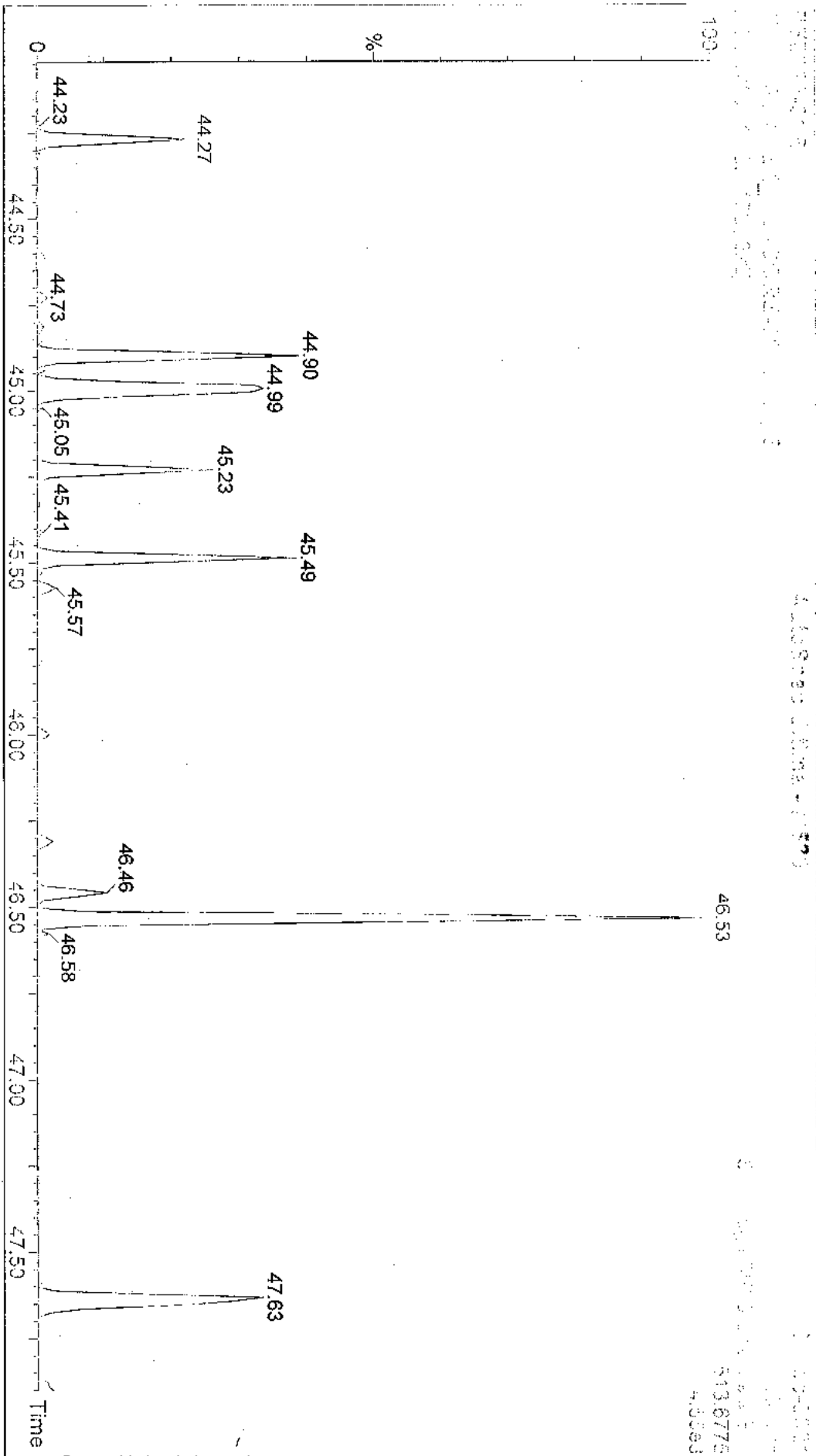
Time

Last Modified: Mon Nov 29 13:04:11 2021
Job Code:

Sample ID: 11 04 05135 2021

Name: M3211209314
Text: R22799-01R

521 DSCA DPE

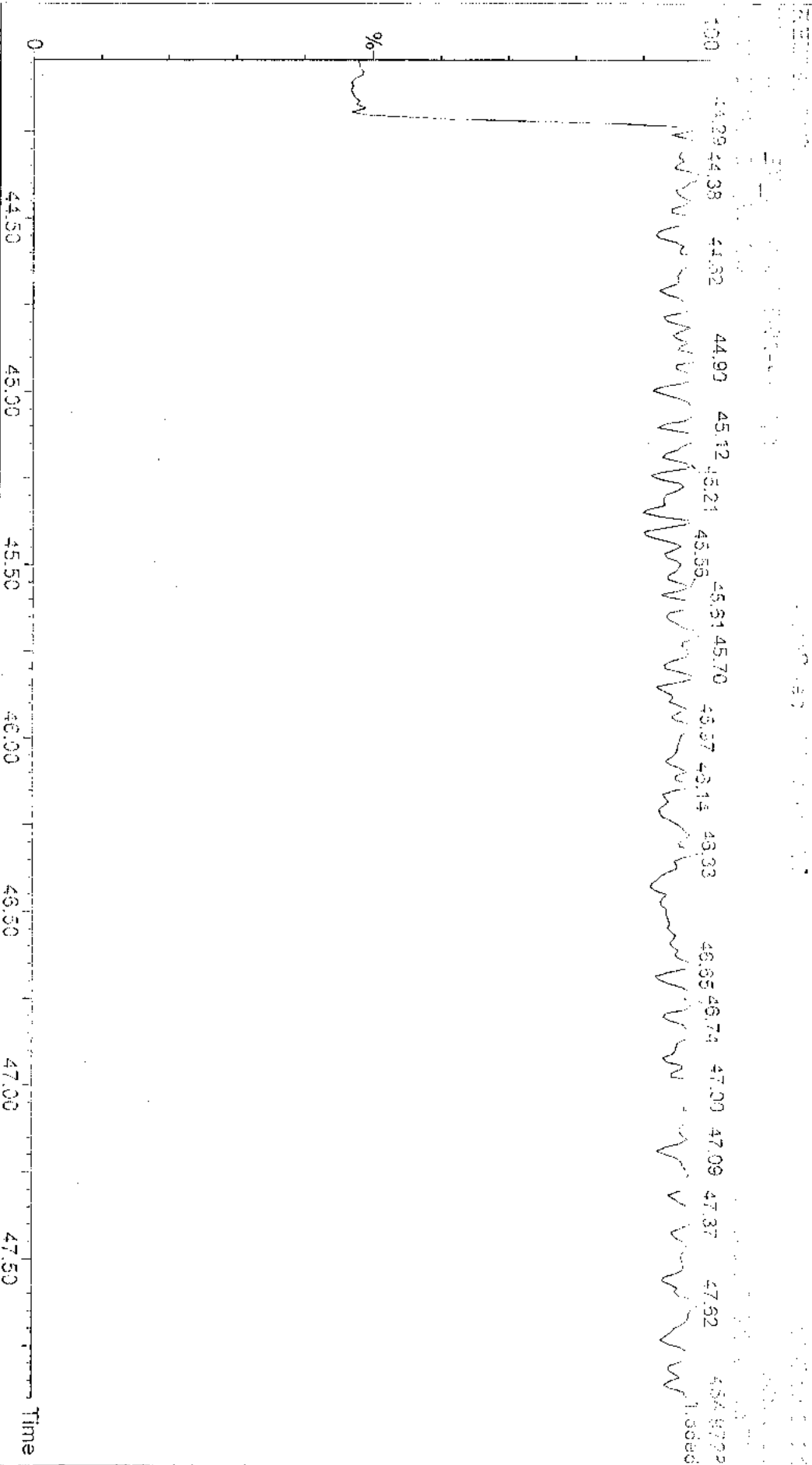


Last Modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 00:35 2021

Name: M311209814
Text: REX799-01R

53: Junction 5 Lockmass



REZ795-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

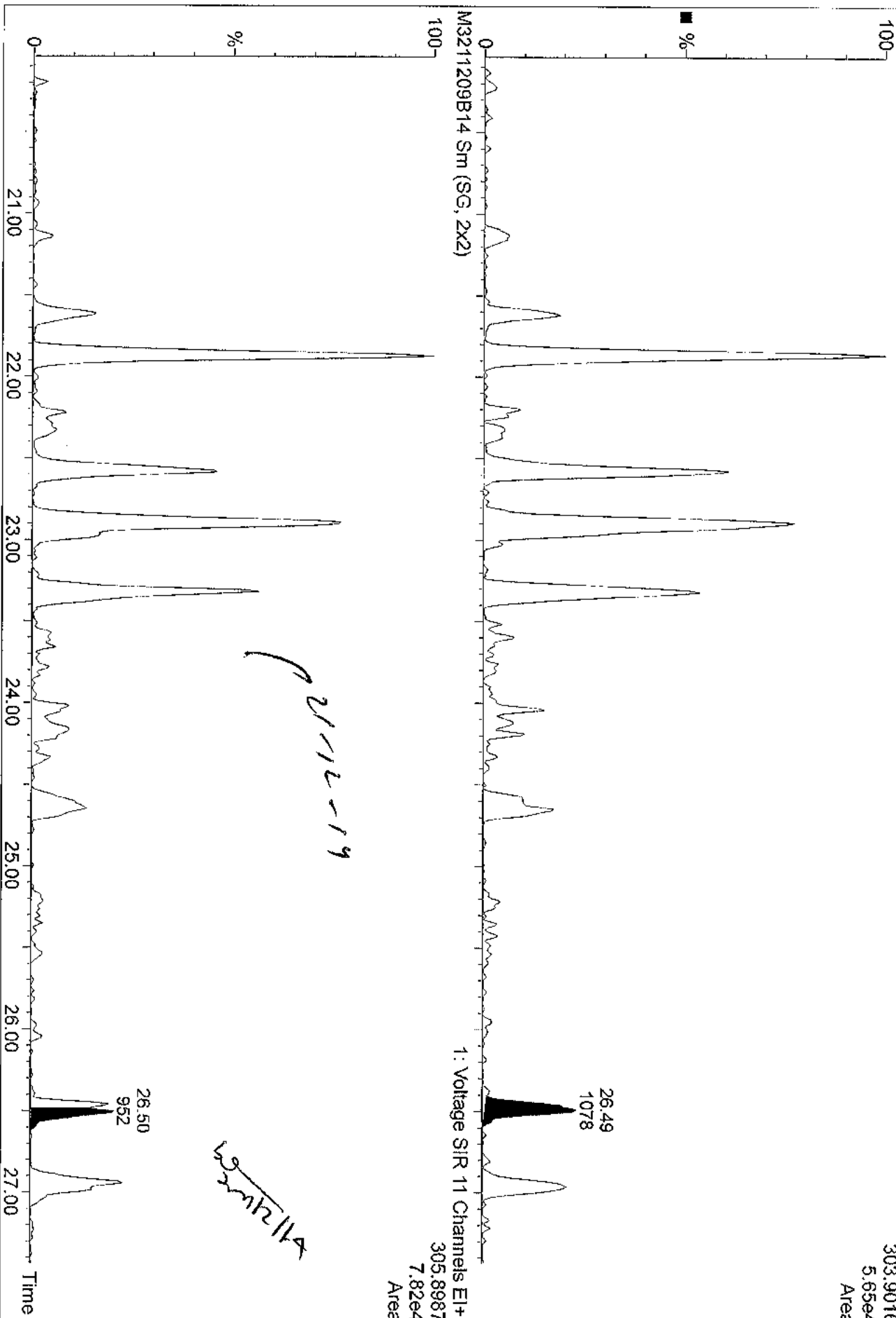
M3211209B14 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

303.9016

5.65e4

Area



REZ795-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

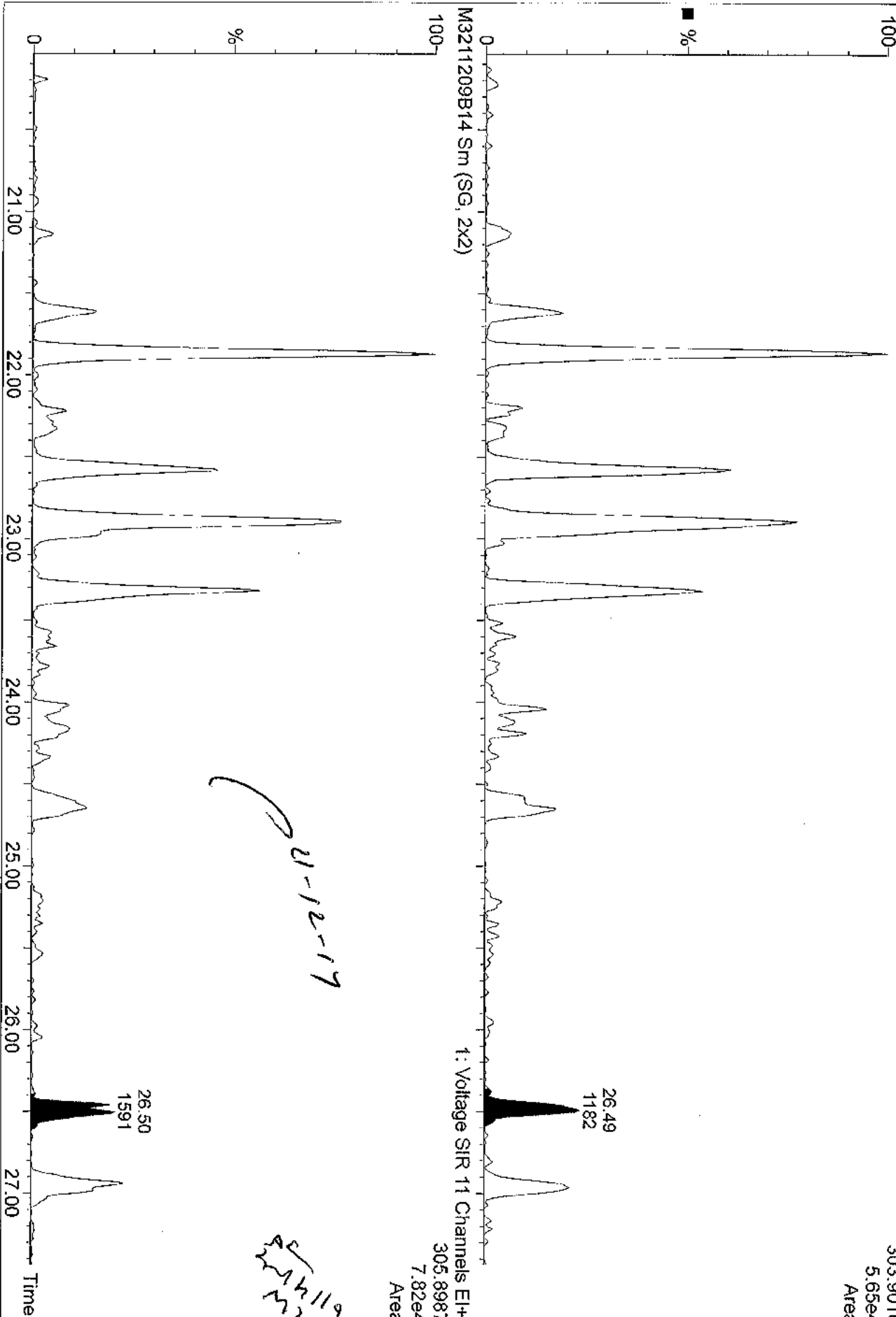
M3211209B14 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

303.9016

5.65e4

Area



10-Dec-2021

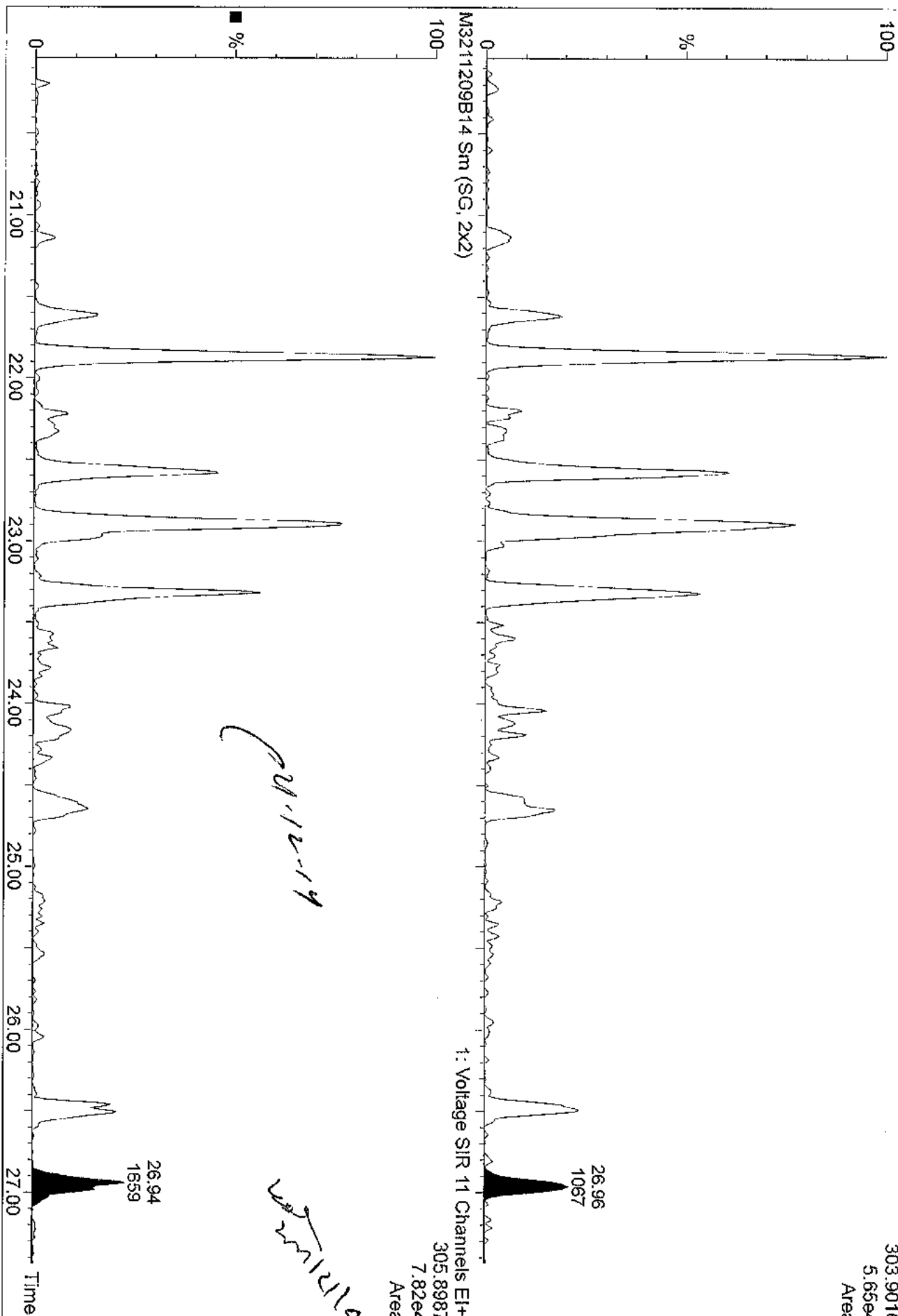
08:30:56

1: Voltage SIR 11 Channels E1+

303.9016

5.65e40

Area



REZ795-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

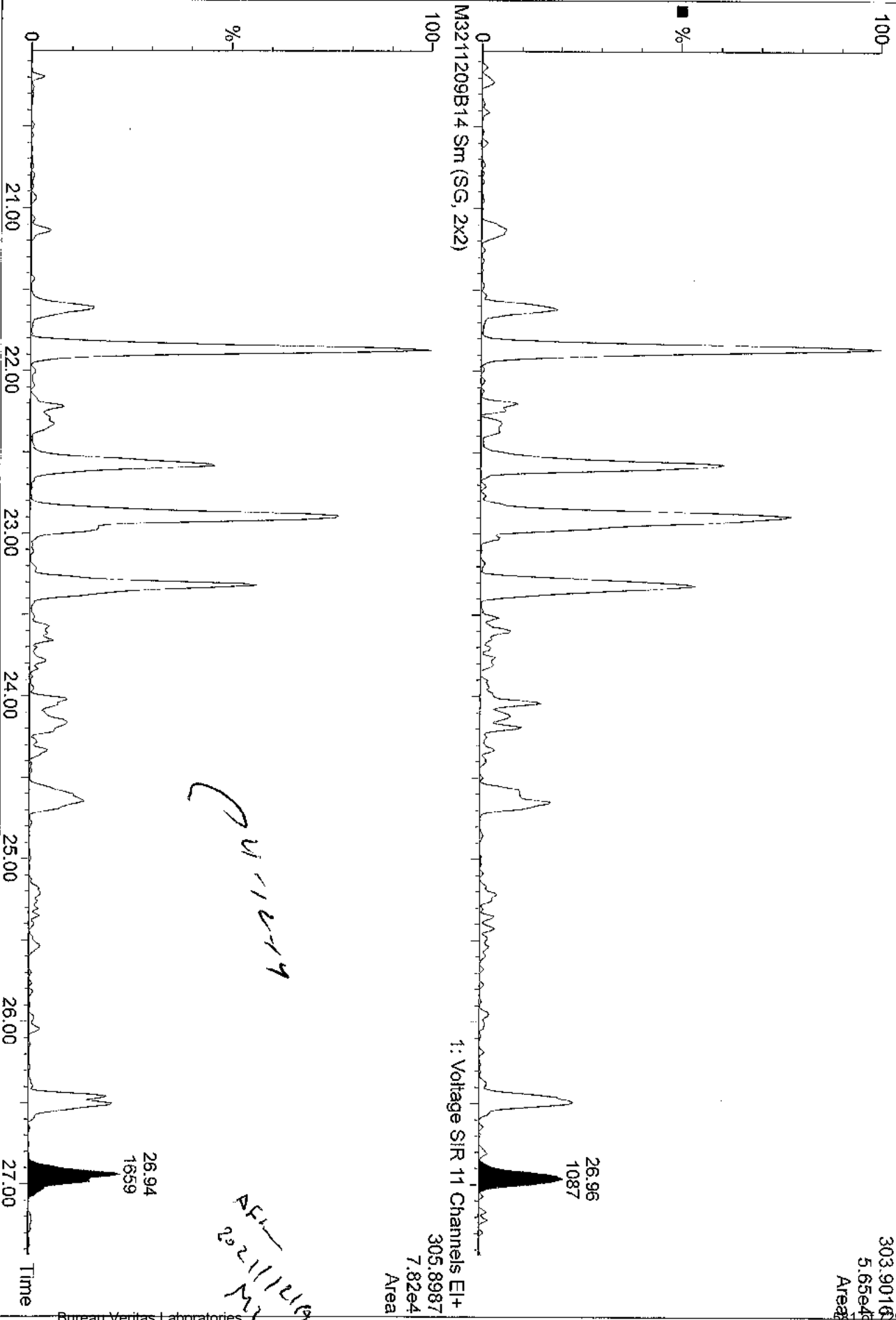
M3211209B14 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

303.9016

5.65e4

Area



REZ795-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

M3211209B14 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

24.07
1088

319.89651
8.18e36
Area

M1
AF-1111119

M3211209B14 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

24.04
1318

321.8936
1.12e4
Area

M3211209B14 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

25.35
25.65

331.9368
8.62e6

Cur-12-17

M3211209B14 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

25.35
25.65

333.9339
1.03e7

21.00 22.00 23.00 24.00 25.00 26.00 27.00 Time

REZ799-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

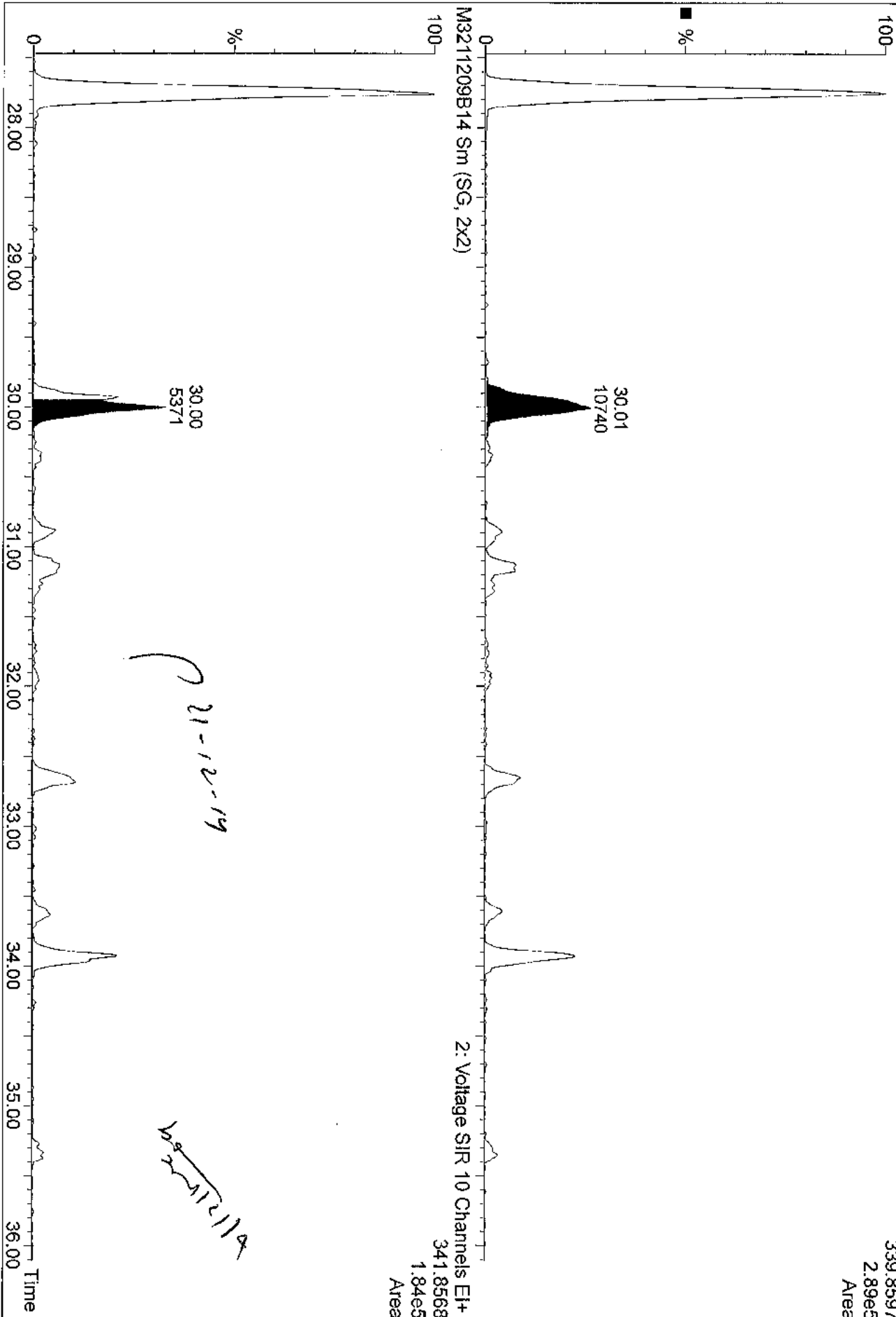
M3211209B14 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

339.8597

2.89e5

Area



REZ799-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

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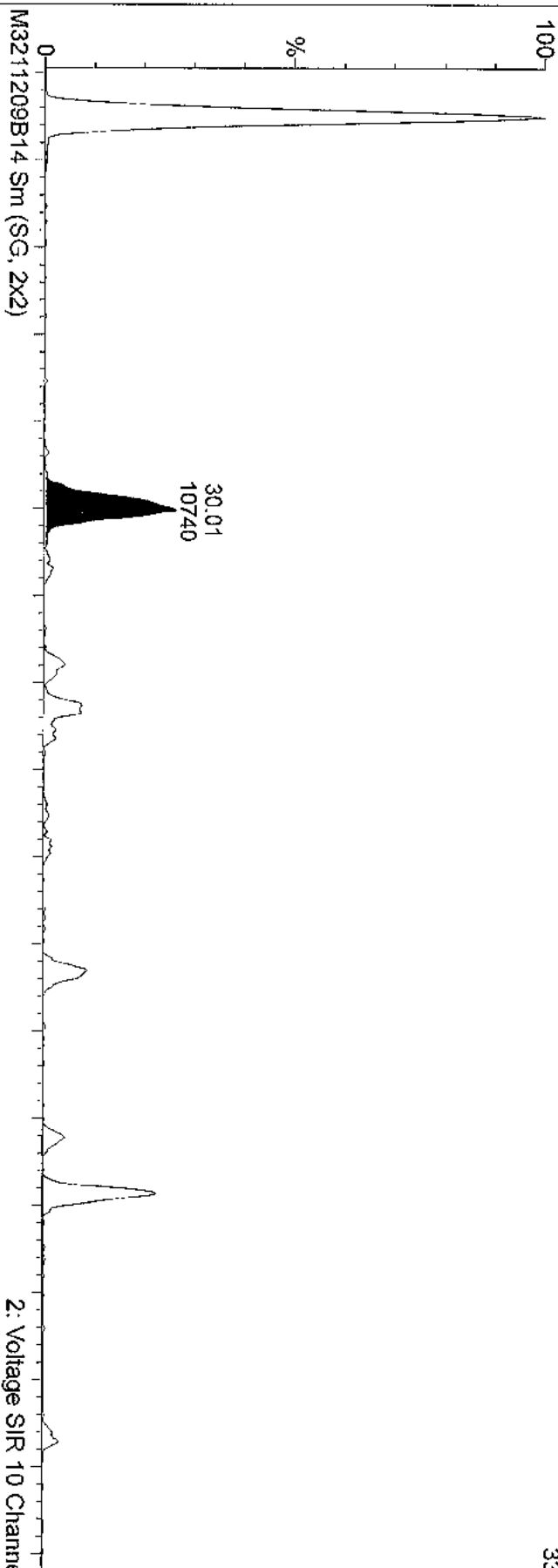
M3211209B14 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597

2.89e5

Area

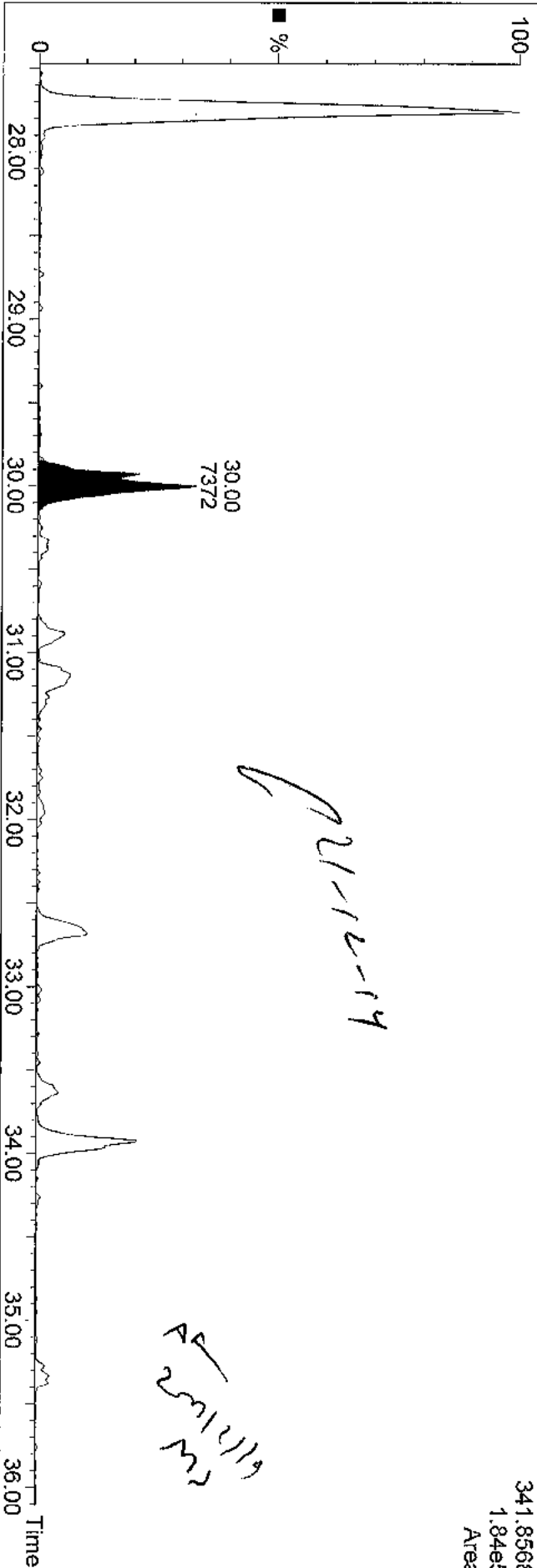


2: Voltage SIR 10 Channels EI+

341.8568

1.84e5

Area



REZ799-01R

AutoSpec Ultima - M536

10-Dec-2021

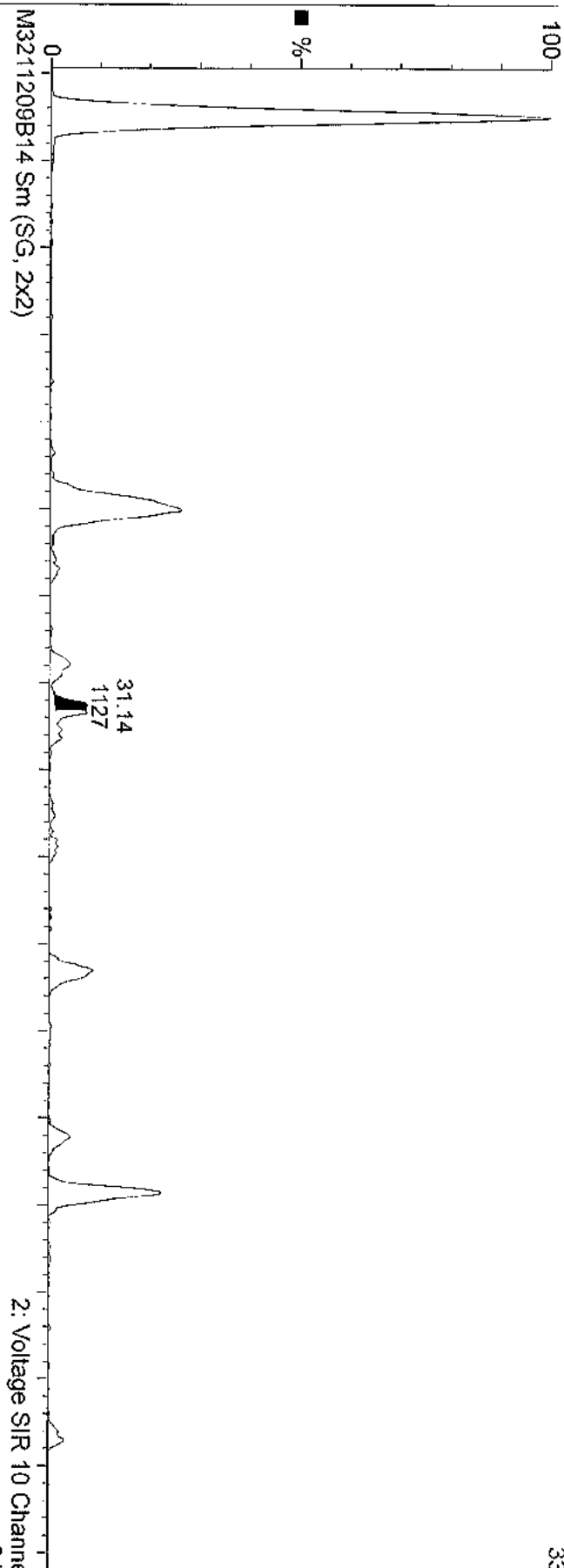
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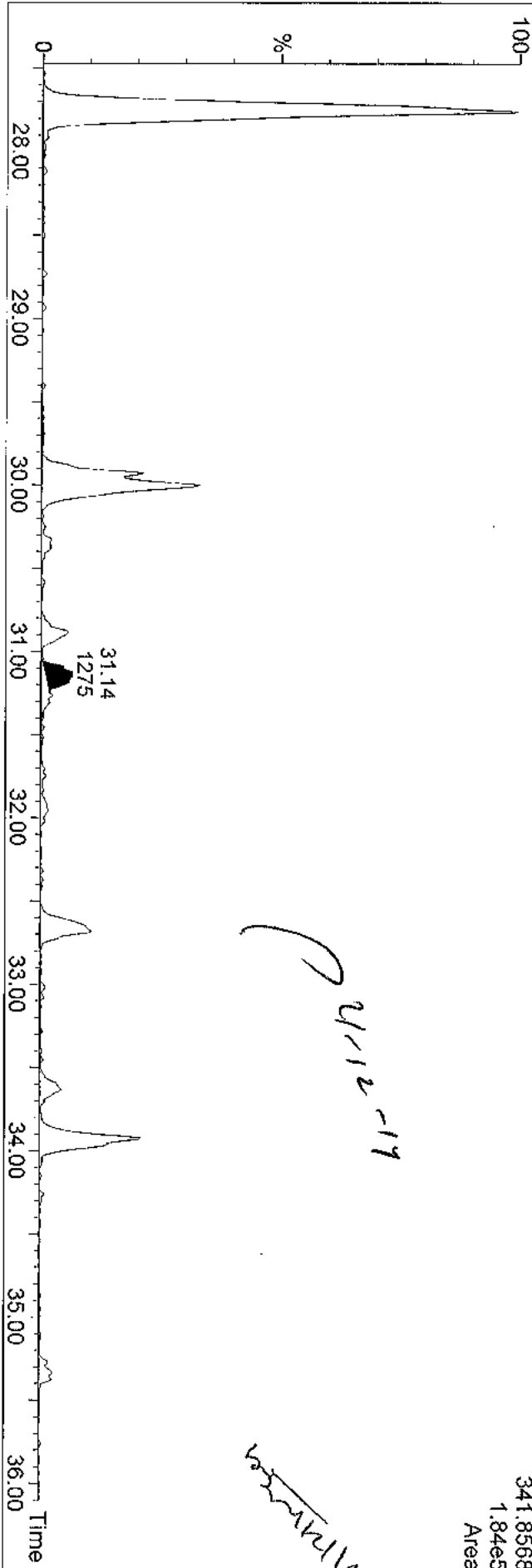
M3211209B14 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597
2.89e5
Area



341.8568
1.84e5
Area



Handwritten: 24-12-17

Handwritten: 339.8597

REZ799-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

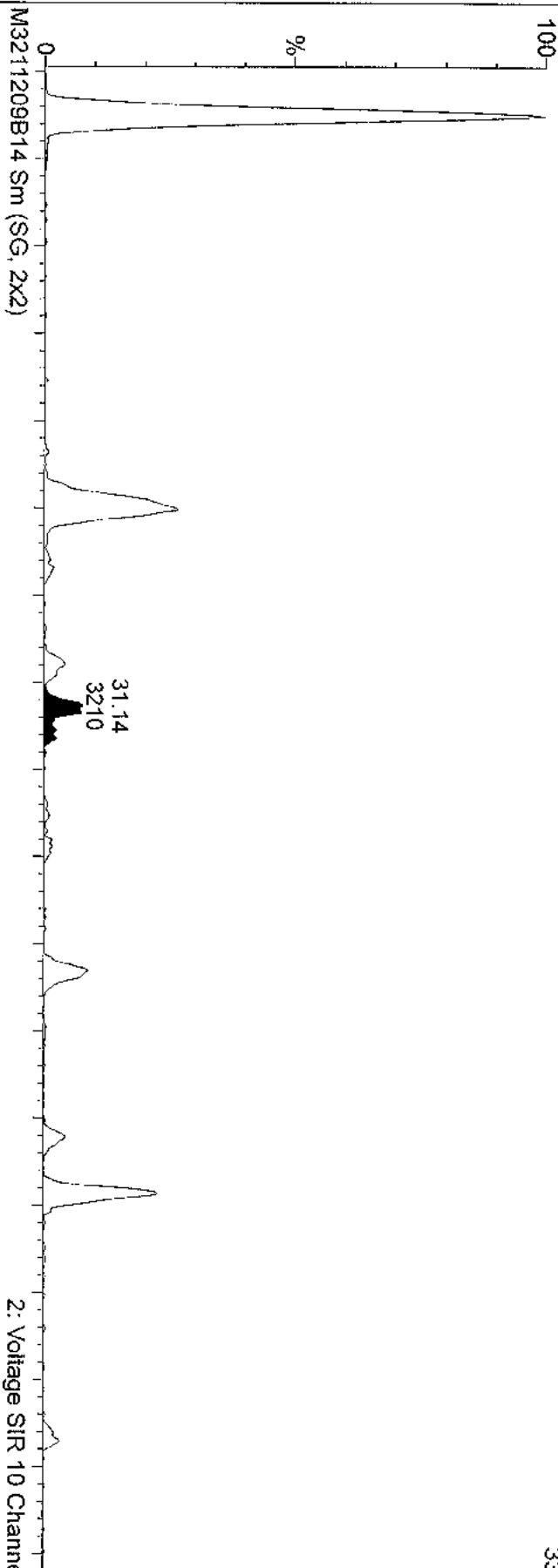
M3211209B14 Sm (SG, 2x2)

2: Voltage S/R 10 Channels EI+

339.8597

2.89e56

Area



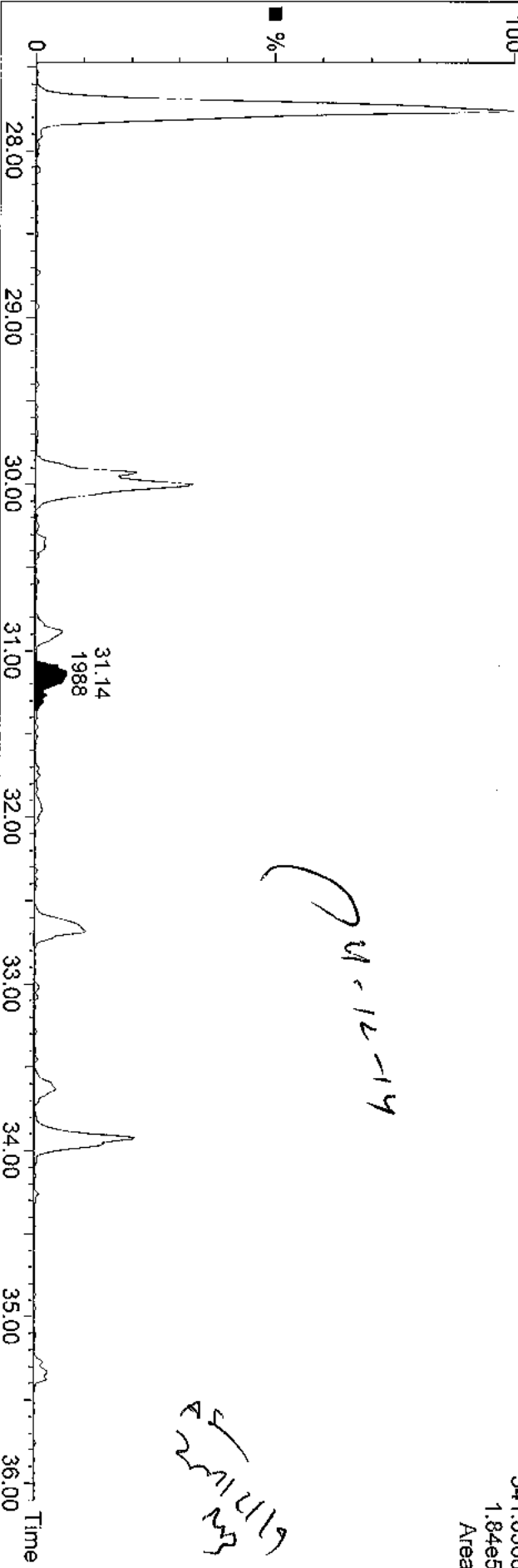
M3211209B14 Sm (SG, 2x2)

2: Voltage S/R 10 Channels EI+

341.8568

1.84e5

Area



Handwritten note: 28.12-14

Handwritten signature/initials

REZ799-01R

AutoSpec Ultima - M536

10-Dec-2021

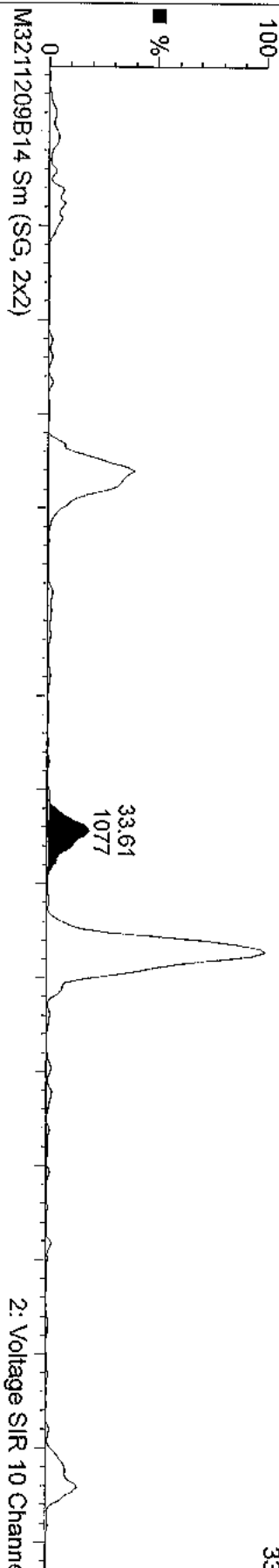
7716247: APEX_PDI-CORE-01-A-08+, S

08:30:56

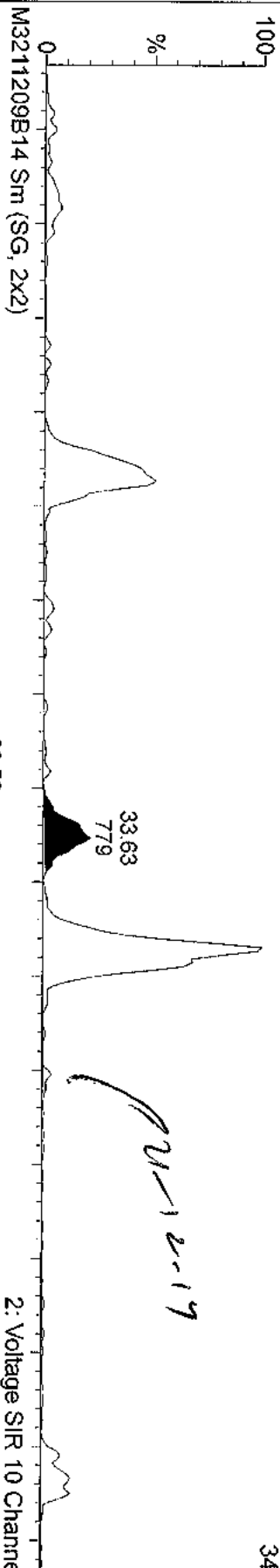
M3211209B14 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

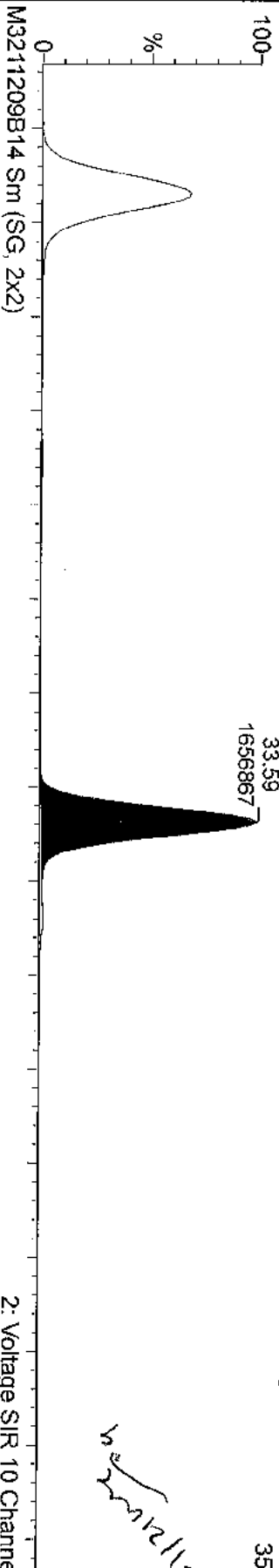
339.8597
6.60e4
Area



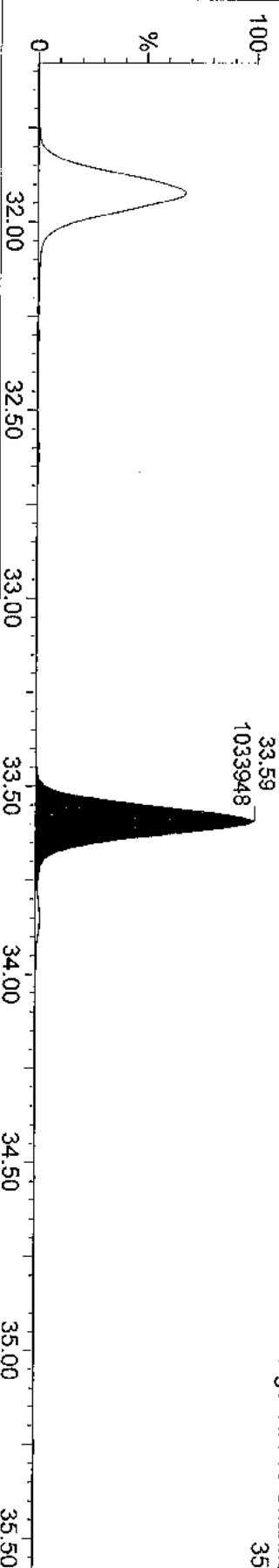
341.8568
3.88e4
Area



351.9000
1.78e7
Area



353.8970
1.11e7
Area



REZ799-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

M3211209B14 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597
2.89e5
Area

M3211209B14 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

341.8568
1.84e5
Area

M3211209B14 Sm (SG, 2x2)

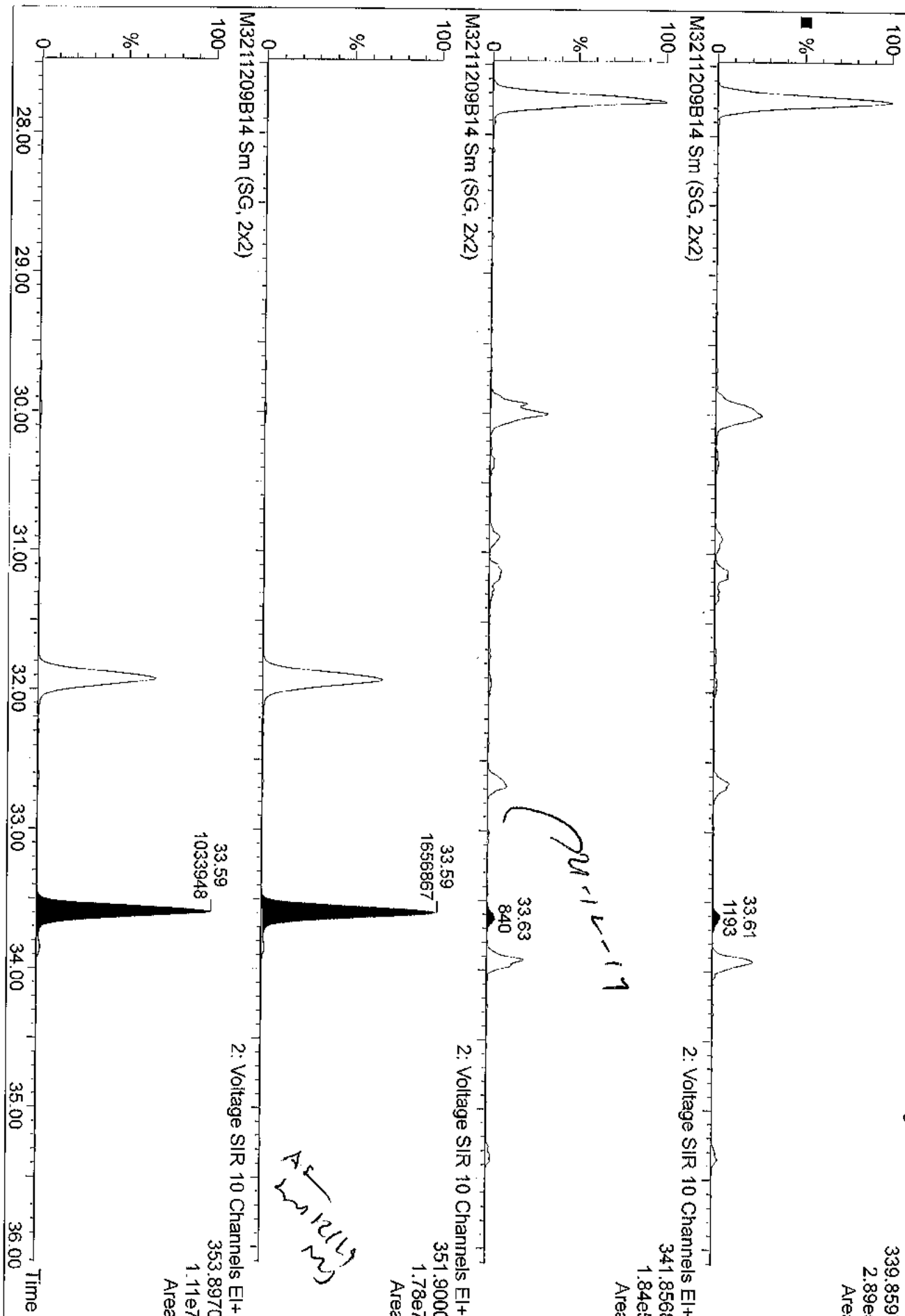
2: Voltage SIR 10 Channels EI+

351.9000
1.78e7
Area

M3211209B14 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

353.8970
1.11e7
Area



REZ799-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.45
6104

441.7428
9.07e4
Area

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.44
6326

443.7398
9.66e4
Area

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
872989

469.7780
1.18e7
Area

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
887973

471.7750
1.28e7
Area

U-12-14

7716247

REZ799-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-01-A-08*, S

08:30:56

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.45
6693

441.7428
9.07e4
Area

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.44
7512

443.7398
9.66e4
Area

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
872989

469.7780
1.18e7
Area

M3211209B14 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
887973

471.7750
1.28e7
Area

File: M3211210A06
 Sample
 Acq: 2021/10/12 23:42
 Sam: RE2800-01R
 Com: RE2800-01R
 Sam: 20.0476

Run
 If File: 1127A_1613_Spt
 7716247: APEX_PDI-CORE-03-B-04*, S
 Ill Fac: 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	Code	TEF	LOD(pg)	S/N	Mod.User	RRF Mean	%Rec
1	2,3,7,8-TCDF	304	24.63	910	0.62	2379	-0.123533		-0.012	0.33 Max T	-0.123533		0.97161	-
		306	24.57	1468	no									
2	1,2,3,7,8-PeCDF	340	-	0	-	0	-0.122768		-0.006	-0.122768			0.979466	-
		342	31.93	0	-									
3	2,3,4,7,8-PeCDF	340	-	0	-	0	-0.110343		-0.055	-0.110343			1.089756	-
		342	33.58	0	-									
4	1,2,3,4,7,8-HxCDF	374	38.11	814	1.06	1585	-0.128685		-0.013	-0.128685			1.159483	-
		376	38.11	771	no									
5	1,2,3,6,7,8-HxCDF	374	38.24	413	0.73	982	-0.136307		-0.014	-0.136307			1.094648	-
		376	38.25	569	no									
6	2,3,4,6,7,8-HxCDF	374	38.91	483	1.4	829	-0.126815		-0.013	-0.126815			1.176583	-
		376	38.89	346	no									
7	1,2,3,7,8-HxCDF	374	-	0	-	0	-0.135976		-0.014	-0.135976			1.097314	-
		376	39.70	0	-									
8	1,2,3,4,6,7,8-HpCDF	408	41.46	2756	1.03	5432	0.312207		0.003	-0.149886	5	xL	1.208367	-
		410	41.43	2676	OK						5			
9	1,2,3,4,7,8,9-HpCDF	408	-	0	-	0	-0.153878		-0.002	-0.153878			1.177018	-
		410	42.71	0	-									
10	OCDF	442	45.45	2116	0.89	4494	0.533094		0.001	-0.103449	13	xL	1.239902	-
		444	45.41	2378	OK						12			
11	2,3,7,8-TCDD	320	-	0	-	0	-0.124661		-0.125	-0.124661			1.240957	-
		322	25.73	0	-									
12	1,2,3,7,8-PeCDD	356	-	0	-	0	-0.124073		-0.062	-0.124073			1.116262	-
		358	34.31	0	-									
13	1,2,3,4,7,8-HxCDD	390	-	0	-	0	-0.14094		-0.014	-0.14094			1.111453	-
		392	39.05	0	-									
14	1,2,3,6,7,8-HxCDD	390	39.19	895	1.25	1611	-0.139909		-0.014	-0.139909			1.119648	-
		392	39.17	717	no									
15	1,2,3,7,8,9-HxCDD	390	39.52	1563	1.55	2572	-0.14019		-0.014	-0.140194		Op-O	1.117372	-
		392	39.50	1010	no									
16	1,2,3,4,6,7,8-HpCDD	424	42.40	8559	1	17185	1.385902		0.014	-0.155713	22		1.084762	-
		426	42.36	8606	yes						23			
17	OCDD	458	45.35	50201	0.85	109424	15.27125		0.015	-0.104602	386		1.054514	-
		460	45.29	59223	yes						381			
18	13C-2,3,7,8-TCDF	316	24.58	3177847	0.79	7221761	1585.978			0.678	5251		2.144584	79
		318	24.57	4043914	yes						10617			
19	13C-1,2,3,7,8-PeCDF	352	31.93	3278087	1.59	5344208	1595.68			0.705	5887		1.577374	80
		354	31.89	2066122	yes						3772			
20	13C-2,3,4,7,8-PeCDF	352	33.59	3593055	1.57	5887807	1807.287			0.725	8246		1.534347	90
		354	33.57	2294752	yes						5420			
21	13C-1,2,3,4,7,8-HxCDF	384	38.09	1481792	0.52	4343715	1522.833			0.908	4620		1.332773	76
		386	38.09	2861923	yes						5305			
22	13C-1,2,3,6,7,8-HxCDF	384	38.22	1575492	0.53	4545596	1479.988			0.843	4806		1.435092	74
		386	38.20	2970104	yes						5293			
23	13C-2,3,4,6,7,8-HxCDF	384	38.89	1517273	0.52	4405671	1538.075			0.904	4569		1.338387	77
		386	38.87	2888398	yes						5084			
24	13C-1,2,3,7,8,9-HxCDF	384	39.73	1419928	0.52	4128968	1542.126			0.967	4433		1.251033	77
		386	39.69	2709041	yes						4889			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.45	889773	0.45	2850212	1091.64			1.794	1069		1.266359	53
		420	41.41	1960439	yes						3306			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.74	918833	0.45	2970108	1305.201			2.136	1046		1.063266	65
		420	42.71	2051274	yes						3297			
27	13C-2,3,7,8-TCDD	332	25.65	1851152	0.82	4116976	1672.927			0.717	4862		1.159041	84
		334	25.70	2265825	yes						9565			
28	13C-1,2,3,7,8-PeCDD	368	34.32	2140277	1.64	3443189	1973.915			0.808	7393		0.821541	99
		370	34.29	1302912	yes						7558			
29	13C-1,2,3,4,7,8-HxCDD	402	39.08	1746412	1.33	3059283	1569.375			0.935	10528		0.910836	78
		404	39.06	1312872	yes						3412			
30	13C-1,2,3,6,7,8-HxCDD	402	39.18	1860271	1.29	3298717	1619.453			0.895	10157		0.951752	81
		404	39.15	1438446	yes						3463			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.39	1127968	0.98	2278064	1130.51			1.355	2304		0.941539	57
		438	42.36	1150096	yes						3095			
32	13C-OCDD	470	45.34	1291752	0.61	2711539	1679.018			0.57	6955		0.754584	42
		472	45.29	1419788	yes						7002			
33	13C-1,2,3,4-TCDD	332	25.35	1919693	0.82	4246517	91.614			0.038	5282		46352.42	5
		334	25.34	2326624	yes						10147			
34	13C-1,2,3,7,8,9-HxCDD	402	39.52	2438362	1.32	4280386	80.52			0.034	13263		58159.29	4
		404	39.49	1842024	yes						1838			
35	CB7-2,3,7,8-TCDD	328	25.67	525870	1	1051741	196.727			0.25	2284		2.517916	98
		328	25.62	525870	yes						2284			
36	Totals Tetra-Furans	304	-	0	-	0	0.376205		2	-0.123533	-		0.97161	-
		306	26.00	0	-						-			
37	Totals Tetra-Dioxins	320	-	0	-	0	0.226764		1	-0.124661	-		1.240957	-
		322	26.00	0	-						-			
38	Totals Penta-Furans	340	-	0	-	0	0.268956		1	-0.116225	-		1.034611	-

		342	34.00	0	-				-		
39	Totals Penta-Dioxins	356	-	0	-	0	-0.124073	0	-0.124073	-	1.116262
		358	34.00	0	-				-		
40	Totals Hexa-Furans	374	-	0	-	0	0.474467	2	-0.131809	-	1.132007
		376	39.50	0	-				-		
41	Totals Hexa-Dioxins	390	-	0	-	0	0.733301	1	-0.141355	-	1.108192
		392	39.50	0	-				-		
42	Totals Hepta-Furans	408	-	0	-	0	0.813762	2	-0.151856	-	1.192692
		410	42.50	0	-				-		
43	Totals Hepta-Dioxins	424	-	0	-	0	4.210431	2	-0.155713	-	1.084762
		426	42.50	0	-				-		

Totals Compound 36: Totals Tetra-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
36	Totals Tetra-Furans	304	21.13	2100	0.74	4943	0.140505	4		0.97161	-
		306	26.00	2843	yes			3			
36	Totals Tetra-Furans	304	21.61	649	0.75	1508	0.042893	1		0.97161	-
		306	26.00	860	no			1			
36	Totals Tetra-Furans	304	21.86	3566	0.76	8287	0.235639	6		0.97161	-
		306	26.00	4720	yes			6			
36	Totals Tetra-Furans	304	22.21	532	0.56	1481	0.0421	1		0.97161	-
		306	26.00	949	no			1			
36	Totals Tetra-Furans	304	22.55	372	0.25	1892	0.053772	1		0.97161	-
		306	26.00	1519	no			1			
36	Totals Tetra-Furans	304	22.89	750	0.74	1771	0.05038	1		0.97161	-
		306	26.00	1021	no			1			
36	Totals Tetra-Furans	304	22.97	1037	1.13	1952	0.055468	1		0.97161	-
		306	26.00	915	no			1			
36	Totals Tetra-Furans	304	23.78	546	0.76	1260	0.035815	1		0.97161	-
		306	26.00	714	no			1			
36	Totals Tetra-Furans	304	24.35	302	0.81	677	0.019254	0		0.97161	-
		306	26.00	374	no			0			
1	2,3,7,8-TCDF	304	24.63	910	0.62	2379	0.067639	1		0.97161	-
		306	24.57	1468	no			1			
36	Totals Tetra-Furans	304	25.35	1020	1.21	1862	0.052974	1		0.97161	-
		306	26.00	842	no			1			

Totals Compound 37: Totals Tetra-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
37	Totals Tetra-Dioxins	320	22.46	1098	0.73	2599	0.101459	3		1.240957	-
		322	26.00	1501	no			3			
37	Totals Tetra-Dioxins	320	22.88	1318	0.74	3111	0.121511	3		1.240957	-
		322	26.00	1793	no			3			
37	Totals Tetra-Dioxins	320	23.88	2692	0.86	5831	0.226764	4	XL	1.240957	-
		322	26.00	3139	OK			4			
37	Totals Tetra-Dioxins	320	25.30	378	0.56	1047	0.040903	1		1.240957	-
		322	26.00	669	no			1			

Totals Compound 38: Totals Penta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
38	Totals Penta-Furans	340	27.75	4646	1.46	7827	0.268956	6		1.034611	-
		342	34.00	3181	yes			6			
38	Totals Penta-Furans	340	29.95	1602	4.27	1977	0.067934	2		1.034611	-
		342	34.00	375	no			2			
38	Totals Penta-Furans	340	33.92	433	0.74	1018	0.034981	1		1.034611	-
		342	34.00	585	no			2			

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
39	Totals Penta-Dioxins	356	30.33	1431	0.53	4132	0.21449	2		1.116262	-
		358	34.00	2701	no			5			
39	Totals Penta-Dioxins	356	31.39	478	0.52	1405	0.072926	1		1.116262	-
		358	34.00	927	no			2			

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
40	Totals Hexa-Furans	374	36.76	718	0.84	1570	0.063559	1		1.132007	-
		376	39.50	852	no			1			
40	Totals Hexa-Furans	374	36.95	2822	1.27	5039	0.203996	4		1.132007	-
		376	39.50	2216	yes			4			
40	Totals Hexa-Furans	374	37.59	3727	1.26	6681	0.27047	6		1.132007	-
		376	39.50	2954	yes			5			
4	1,2,3,4,7,8-HxCDF	374	38.11	814	1.06	1585	0.062751	1		1.159483	-
		376	38.11	771	no			1			
5	1,2,3,6,7,8-HxCDF	374	38.24	413	0.73	982	0.039406	1		1.094648	-
		376	38.25	569	no			1			
40	Totals Hexa-Furans	374	38.83	344	0.9	726	0.029391	1		1.132007	-
		376	39.50	392	no			1			
6	2,3,4,6,7,8-HxCDF	374	38.91	483	1.4	829	0.031924	1		1.176583	-
		376	38.89	346	no			1			

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.52	6881	1.14	12911	0.733302	12		1.108192	-
		392	39.50	6029	yes			12			
41	Totals Hexa-Dioxins	390	38.10	-2879.28	1.24	-5201.28	-0.29541	8	xl	1.108192	-
		392	39.50	-2322	OK			3			
41	Totals Hexa-Dioxins	390	38.22	-1724.84	1.24	-3115.84	-0.17697	8	xl	1.108192	-
		392	39.50	-1391	OK			3			
41	Totals Hexa-Dioxins	390	38.42	-3695.2	1.24	-6675.2	-0.97918	7	xl	1.108192	-
		392	39.50	-2980	OK			6			
41	Totals Hexa-Dioxins	390	38.89	-2616.4	1.24	-4726.4	-0.26844	18	xl	1.108192	-
		392	39.50	-2110	OK			5			
14	1,2,3,6,7,8-HxCDD	390	39.19	895	1.25	1611	0.087093	2		1.119648	-
		392	39.17	717	no			2			
15	1,2,3,7,8,9-HxCDD	390	39.52	1563	1.55	2572	0.14488	2		1.093474	-
		392	39.50	1010	no			2			
41	Totals Hexa-Dioxins	390	39.72	-1457	1.24	-2632	-0.14949	7	xl	1.108192	-
		392	39.50	-1175	OK			3			

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
8	1,2,3,4,6,7,8-HpCDF	408	41.46	2756	1.03	5432	0.312207	5	xl	1.208367	-
		410	41.43	2676	OK			5			
42	Totals Hepta-Furans	408	41.82	4200	0.92	8742	0.501555	8	xl	1.192692	-
		410	42.50	4542	OK			9			

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
43	Totals Hepta-Dioxins	424	41.44	8519	2.99	11972	0.91055	24		1.084762	-
		426	42.50	2853	no			8			
43	Totals Hepta-Dioxins	424	41.75	17871	1.03	35276	2.82453	46		1.084762	-
		426	42.50	17405	yes			45			
16	1,2,3,4,6,7,8-HpCDD	424	42.40	8559	1	17165	1.385902	22		1.084762	-
		426	42.36	8606	yes			23			
43	Totals Hepta-Dioxins	424	42.74	8200	2.49	11496	0.920478	23		1.084762	-
		426	42.50	3297	no			8			

Quantify Sample Report

Sample List: C:\MASSIVE\Default-pro\SMFIEDR\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSIVE\Default-pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

35: Totals Tetra-Pyrans

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

AutoSpec Ultima - M536

10-Dec-2021

23:42:09

M3211210A06 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

303.9016

5.51e4

Area

1.98e3

M3211210A06 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

305.8987

7.07e4

Area

2.45e3

M3211210A06 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

315.9419

3.88e7

M3211210A06 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

317.9389

4.91e7

Time

2

9.1383

Quantify Sample Report

Sample List: C:\MASS\YUNK\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASS\YUNK\Default-pro\METHOD\M3211127A_MC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

37: Totals Tetra-Dioxins

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

AutoSpec Ultima - M536

10-Dec-2021

23:42:09

M3211210A06 Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+

22.46 22.88 23.98 25.30
 1098 1318 2121 378
 319.8965 2.85e4 1.39e3

Area

1.39e3

M3211210A06 Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+

22.48 22.88 23.98 25.28
 1501 1793 1337 669
 321.8936 3.01e4 1.81e3

Area

1.81e3

M3211210A06 Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+

25.35 25.65 25.35 25.65
 331.9368 2.24e7 2.65e7

Area

2.65e7

M3211210A06 Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+

25.35 25.65 25.35 25.65
 333.9339 2.65e7 2.65e7

Area

2.65e7

Time

Quantify Sample Report

Sample Name: C:\MASSL\X\Default-pro\SAMPLE\EDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSL\X\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

35: C137-2,3,7,8-TCPD

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

23:42:09



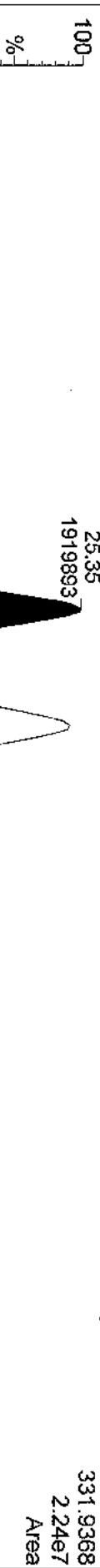
M3211210A06 Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+



M3211210A06 Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+



M3211210A06 Sm (SG, 2x2)

1: Voltage S/R 11 Channels EI+



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSDCHEM\Default-pro\METHOD\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
Text: REZ800-01R

38: Hexa DPE

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

AutoSpec Ultima - M536

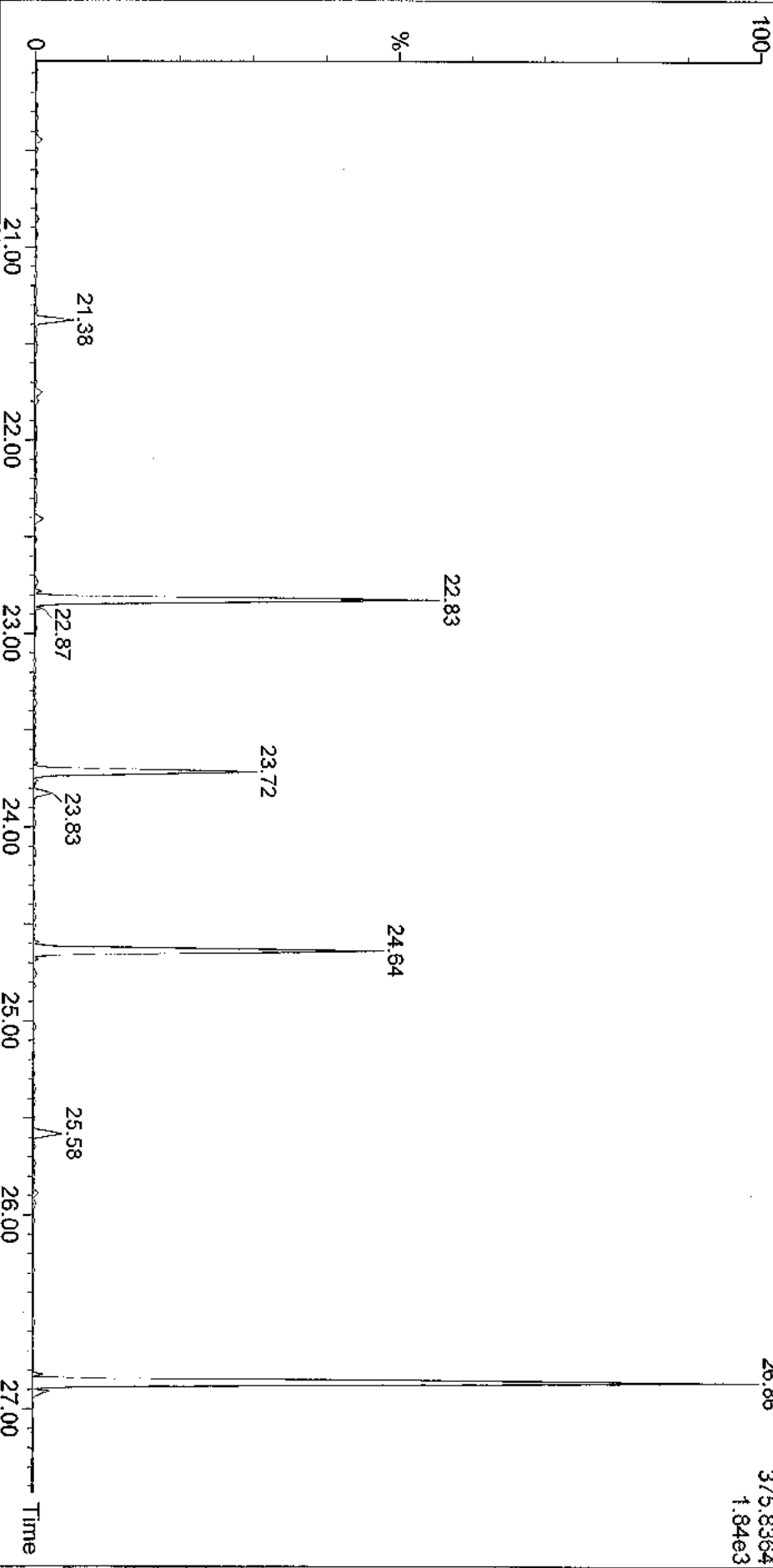
10-Dec-2021

23:42:09

1: Voltage SIR 11 Channels EI+

26.86 375.8364

1.84e3



Quantity Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSLTX\Default.pro\METHOD\M3211127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
Text: REZ800-01R

39: Function 1 LOCKMSS

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2X2)

AutoSpec Ultima - M536

10-Dec-2021

23:42:09

1: Voltage SIR 11 Channels EI+

26.31

26.84

316.9824

25.89

25.47

25.31

24.85

24.25

24.14

23.81

23.40

23.89

22.89

22.76

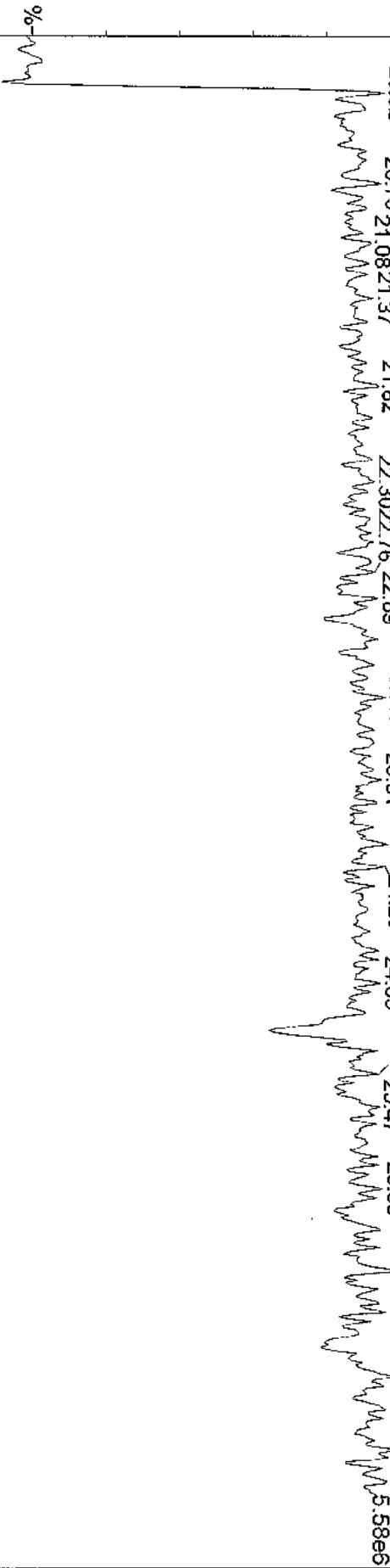
22.30

21.82

21.37

20.79

20.32



Quantity Sample Report

Sample List: C:\MASSLTX\Default.pro\SMFLEDS\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

40: Totals Penta-Furans

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

AutoSpec Ultima - M536

10-Dec-2021

23:42:09

M3211210A06 Sm (SG, 2X2)

2: Voltage SIR 10 Channels EI+

339.8597

5.00e4

Area

33.92

433

2.66e3

M3211210A06 Sm (SG, 2X2)

2: Voltage SIR 10 Channels EI+

341.8568

3.08e4

Area

33.94

585

1.33e3

M3211210A06 Sm (SG, 2X2)

2: Voltage SIR 10 Channels EI+

351.9000

3.83e7

31.93

33.59

M3211210A06 Sm (SG, 2X2)

2: Voltage SIR 10 Channels EI+

353.8970

2.47e7

31.93

33.59

Time

Quantity Sample Report

Sample List: C:\MASSL\X\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSL\X\Default.pro\METHODS\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

AI: Totals Penta-Dioxins

REZ800-01R

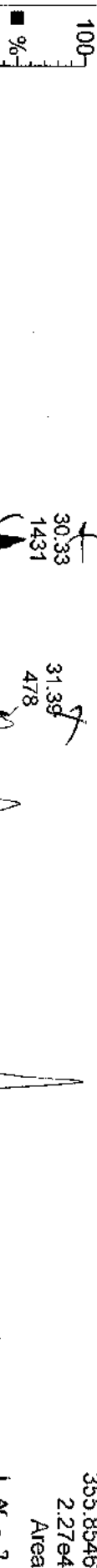
7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

23:42:09



M3211210A06 Sm (SG, 2x2)



M3211210A06 Sm (SG, 2x2)



M3211210A06 Sm (SG, 2x2)



2: Voltage SIR 10 Channels EI+
 369.8919
 1.55e7

Quantify Sample Report

Sample List: C:\MASSVIEW\Default-Pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default-Pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

42: Hepta DPE

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

AutoSpec Ultima - M536

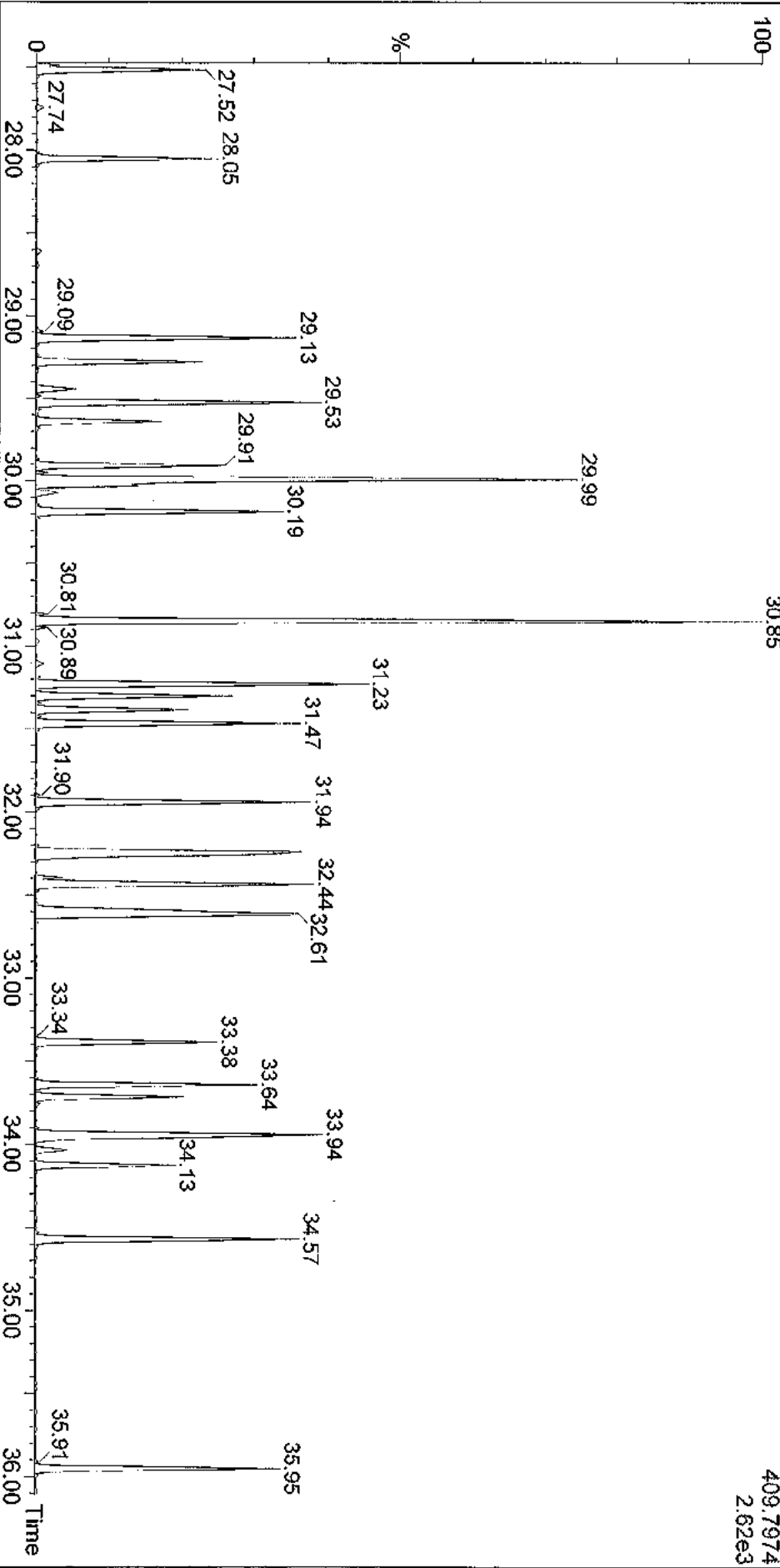
10-Dec-2021

23:42:09

2: Voltage SIF 10 Channels EI+

409.7974

2.62e3



Quantity Sample Report

Sample List: C:\MASSTXN\Default-Pro\SAMPLEDS\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSTXN\Default-Pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

43: Function 2 Lockmass

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

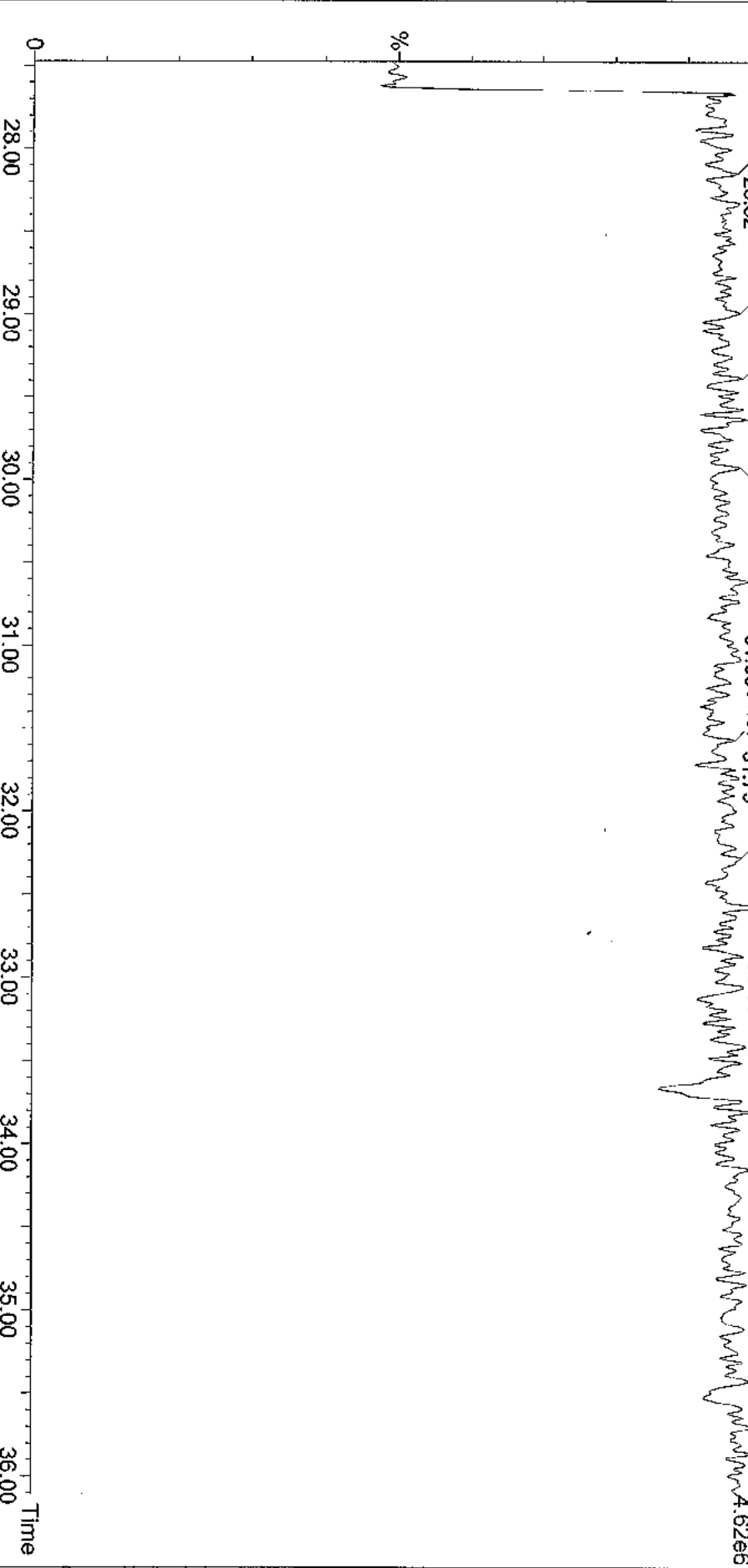
AutoSpec Ultima - M536

10-Dec-2021

23:42:09

2: Voltage SIR 10 Channels EI+

100 28.14 28.32 28.99 29.38 29.63 29.92 30.61 31.08 31.57 31.79 32.27 32.57 33.05 33.42 33.80 34.15 34.84 35.43 35.86 366.9792 4.6266



Quantify Sample Report

Sample Name: C:\MASSWIN\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSWIN\Default-pro\METHODS\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

44: Totals Hexa-Furans

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

AutoSpec Ultima - M536

10-Dec-2021

23:42:09

M3211210A06 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+

37.59 373.8207 6.67e4 Area

36.96 2822 1.8e3 Area

36.76 718 38.11 38.24 38.83 38.91 344 483

37.58 2954 38.10 38.23 38.83 382

M3211210A06 Sm (SG, 2x2) 36.96 2216 37.58 2954 38.10 38.23 38.83 382

3: Voltage SIR 10 Channels EI+

375.8178 4.70e4 Area

36.76 852 38.10 771 38.23 569 38.83 382

1.95e3

M3211210A06 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+

38.09 38.22 38.89 39.73 383.8639 2.56e7

38.09 38.22 38.89 39.73 385.8610 4.80e7

3: Voltage SIR 10 Channels EI+

38.09 38.22 38.89 39.73 385.8610 4.80e7

M3211210A06 Sm (SG, 2x2)

38.09 38.22 38.89 39.73 385.8610 4.80e7

3: Voltage SIR 10 Channels EI+

38.09 38.22 38.89 39.73 385.8610 4.80e7

3: Voltage SIR 10 Channels EI+

38.09 38.22 38.89 39.73 385.8610 4.80e7

Time

2

1.17e4

Quantity Sample Report

Sample List: C:\MASSLUNX\Default.pro\SMFLEDE\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLUNX\Default.pro\METHOD\M3211127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

45: Totals Hexa-Dioxins

REZ800-01R

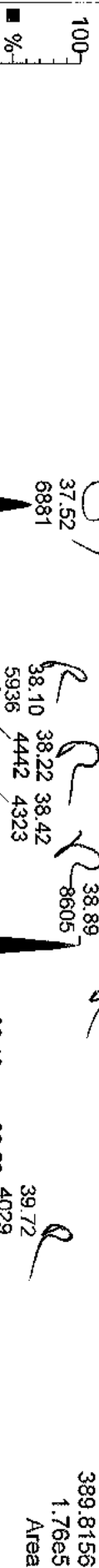
7716247: APEX_PDI-CORE-03-B-04*, S

AutoSpec Ultima - M536

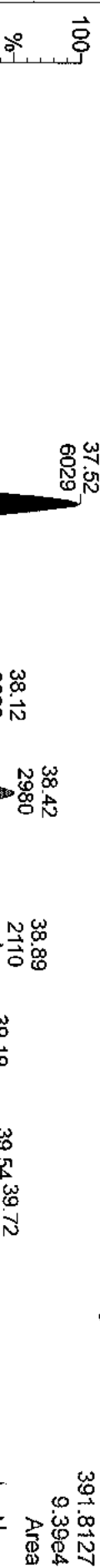
10-Dec-2021

23:42:09

M3211210A06 Sm (SG, 2x2)



M3211210A06 Sm (SG, 2x2)



M3211210A06 Sm (SG, 2x2)



M3211210A06 Sm (SG, 2x2)



Time

Quantity Sample Report

Sample List: C:\MSDCHEM\Default-Pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default-Pro\METHOD\M3211127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

46: Octa DPE

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S
 M3211210A06 Sm (SG, 2x2)

Autospec Ultima - M536

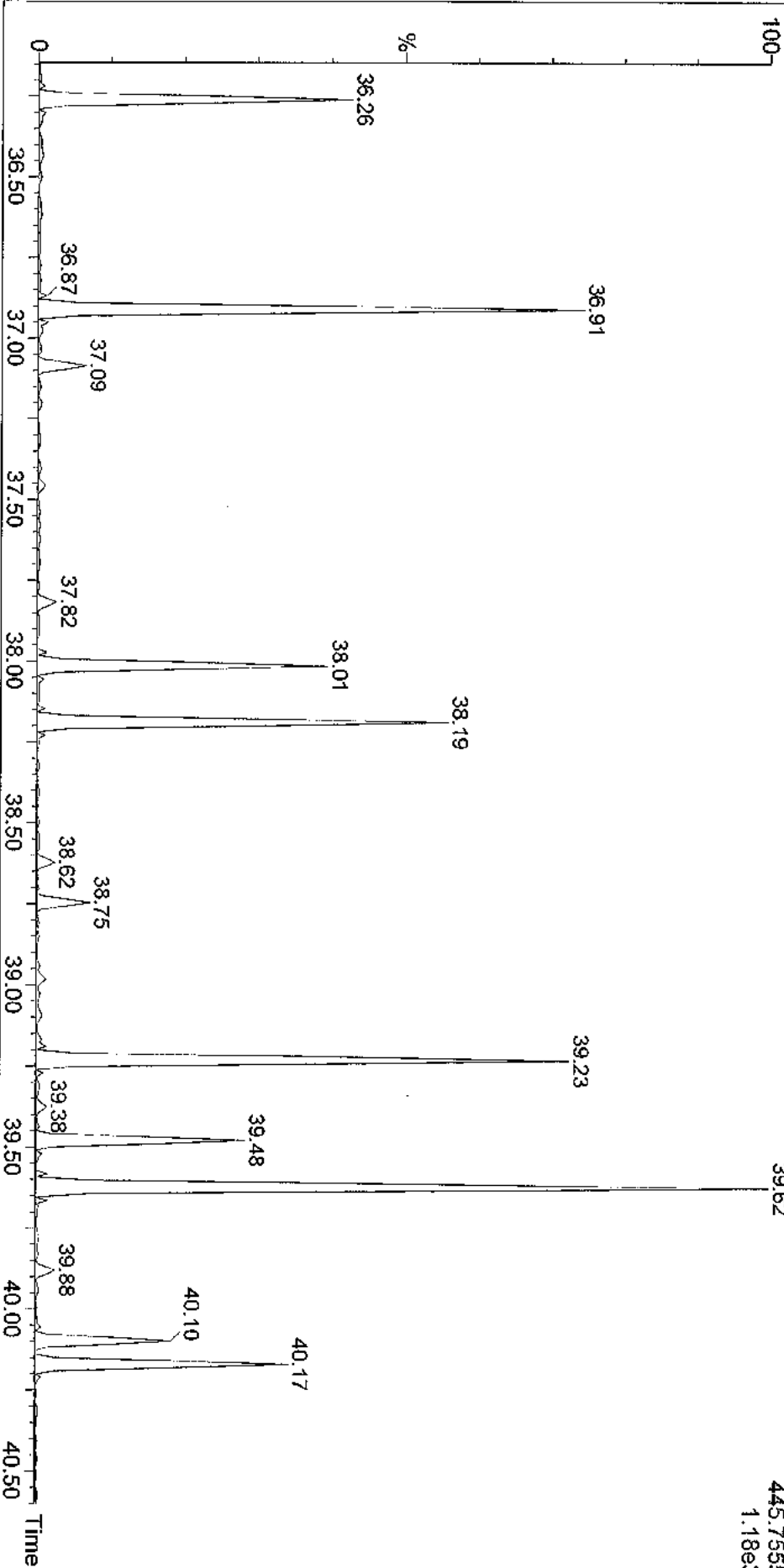
10-Dec-2021

23:42:09

3: Voltage SIF 10 Channels EI+

445.7555

1.18e3



Quantify Sample Report

Sample List: C:\MASSWIN\Default-pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSWIN\Default-pro\METHOD\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
Text: REZ800-01R

47: Punction 3 Lockmass

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

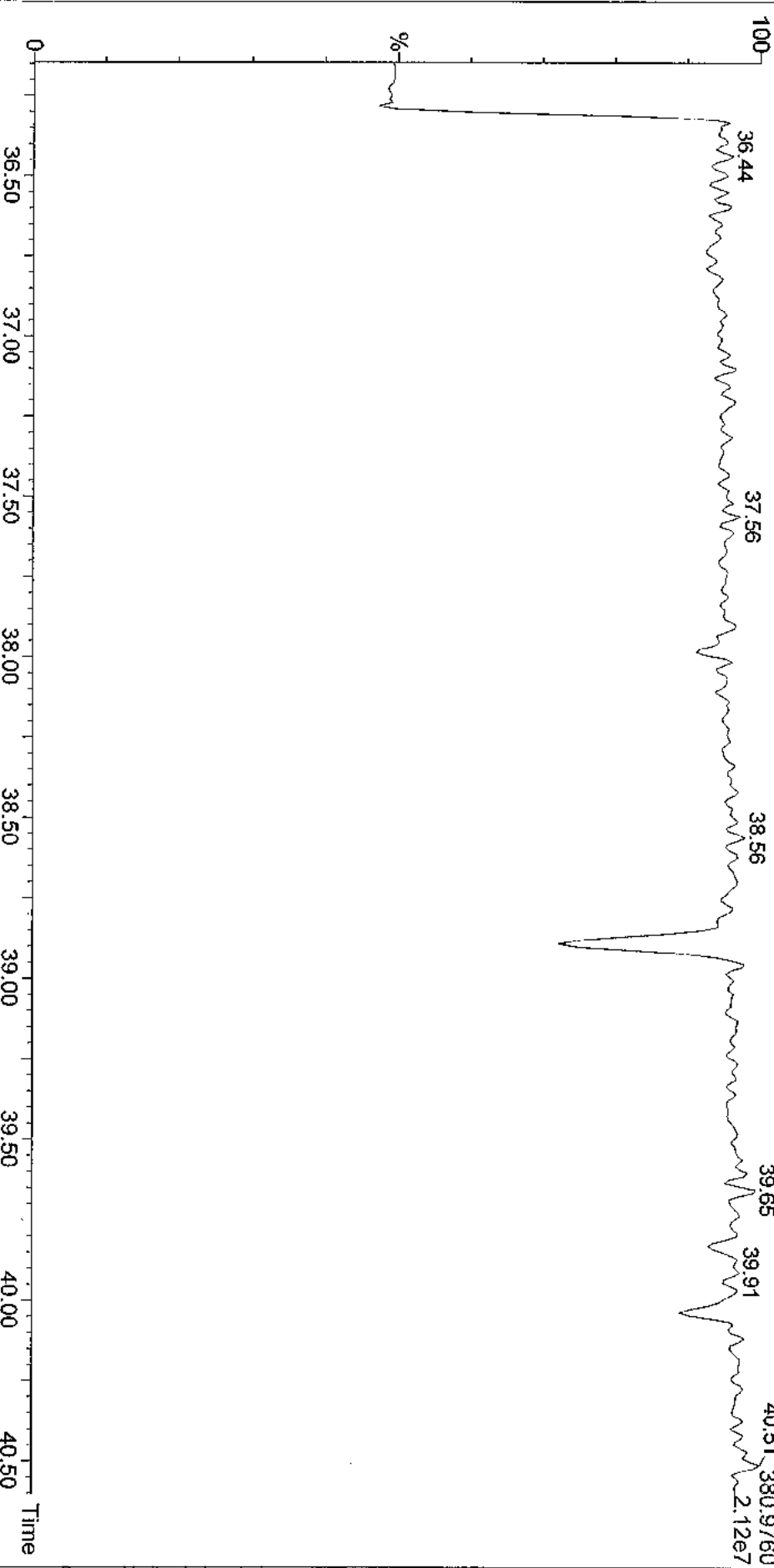
AutoSpec Ultima - M536

10-Dec-2021

23:42:09

3: Voltage SIF 10 Channels EI+

39.65 39.91 40.51 380.9760 2.12e7



Quantify Sample Report

Sample List: C:\MASSIVE\Default.pro\SAFETY\MS211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSIVE\Default.pro\METHODS\MS21127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: MS211210A06
Text: REZ800-01R

48: Totals Hepta-Furans

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

AutoSpec Ultima - M536

10-Dec-2021

23:42:09

MS211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

407.7818

7.93e4

Area

%

1.35e3

MS211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

409.7788

8.16e4

Area

%

1.35e3

MS211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

417.8253

1.69e7

%

MS211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

419.8220

3.69e7

%

Time

Will

Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SMLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211210A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Test: REZ800-01R

50: Nona DPS

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

AutoSpec Ultima - M536

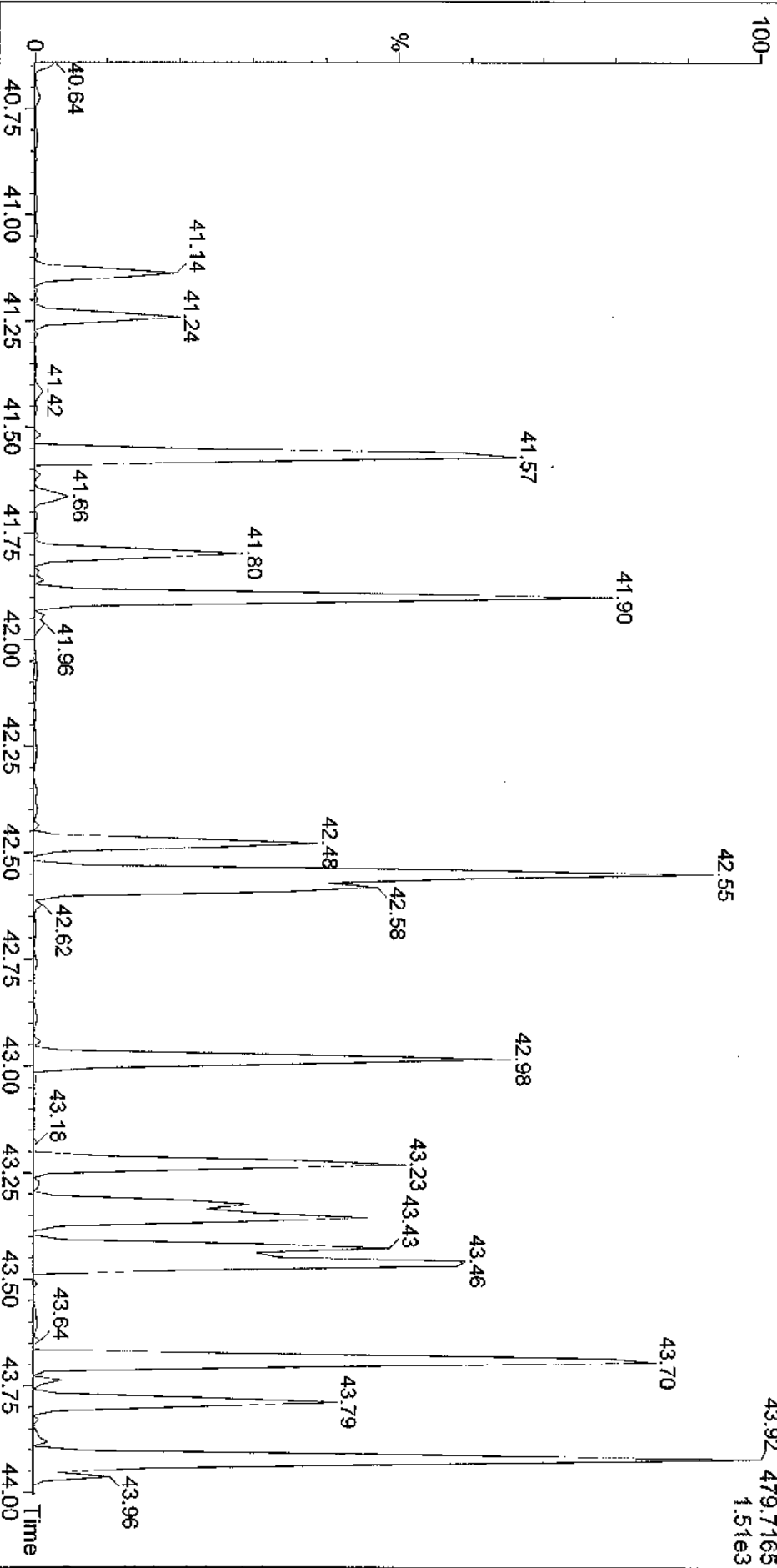
10-Dec-2021

23:42:09

4: Voltage SIF 10 Channels EI+

43.92 479.7165

1.51e3



Quantify Sample Report

Sample List: C:\MSI\MSI\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSI\MSI\Default.pro\METHODS\M321127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
Text: REZ800-01R

SI: Function 4 LockMass

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

23:42:09

4: Voltage S/R 10 Channels EI+

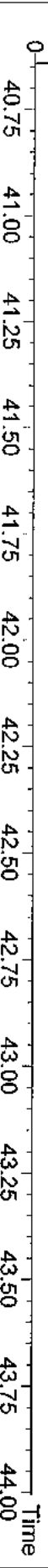
100 40.84

42.28

42.82

430.9728

1.25e7



Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321121A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A05
 Text: RZ800-01R

10: OCDF

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm (SG, 2x2)

45.45
1877

5: Voltage SIR 8 Channels EI+

441.7428
2.79e4
Area

45.45
1945

M3211210A06 Sm (SG, 2x2)

45.34
1291752

5: Voltage SIR 8 Channels EI+

443.7398
2.97e4
Area

45.34
1419788

M3211210A06 Sm (SG, 2x2)

45.34
1419788

5: Voltage SIR 8 Channels EI+

469.7780
1.69e7
Area

M3211210A06 Sm (SG, 2x2)

45.34
1419788

5: Voltage SIR 8 Channels EI+

471.7750
1.84e7
Area

44.50 45.00 45.50 46.00 46.50 47.00 47.50 Time

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211217A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

6

1.85
 612 of 729

17: OGD

REZ800-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-03-B-04*, S

23:42:09

M3211210A06 Sm (SG, 2x2)

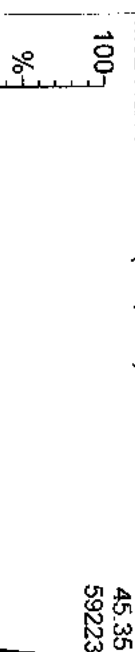
5: Voltage SIR 8 Channels EI+



457.7377
 7.17e5
 Area
 3537

M3211210A06 Sm (SG, 2x2)

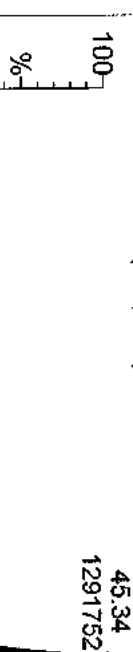
5: Voltage SIR 8 Channels EI+



459.7346
 7.93e5
 Area
 394

M3211210A06 Sm (SG, 2x2)

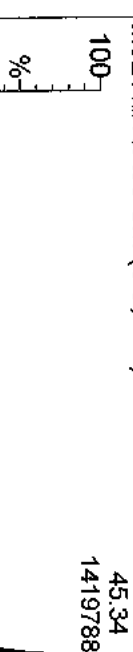
5: Voltage SIR 8 Channels EI+



469.7780
 1.69e7
 Area

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



471.7750
 1.84e7
 Area

Quantity Sample Report

Sample list: C:\MSSTVXK\Default.pro\SAFPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTVXK\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
 Text: REZ800-01R

S2: Deca, DPR

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

M3211210A06 Sm(SG, 2X2)

AutoSpec Ultima - M536

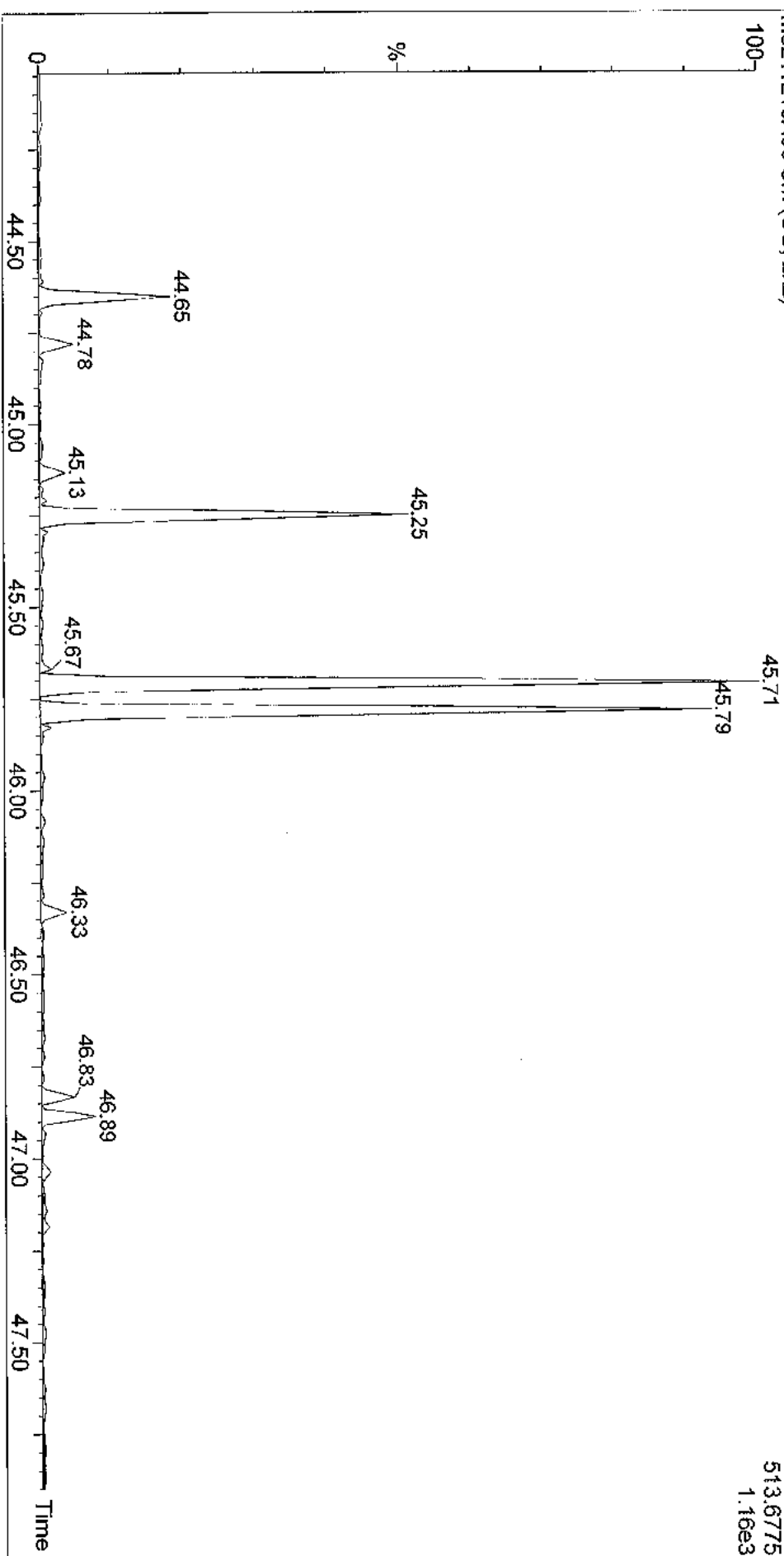
10-Dec-2021

23:42:09

5: Voltage SIR 8 Channels EI+

513.6775

1.16e3



Quantify Sample Report

Sample List: C:\MASSLYNX\Default-pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSLYNX\Default-pro\METHOD\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A06
Text: REZ800-01R

53: Function 5 Lockmass

REZ800-01R

7716247: APEX_PDI-CORE-03-B-04*, S

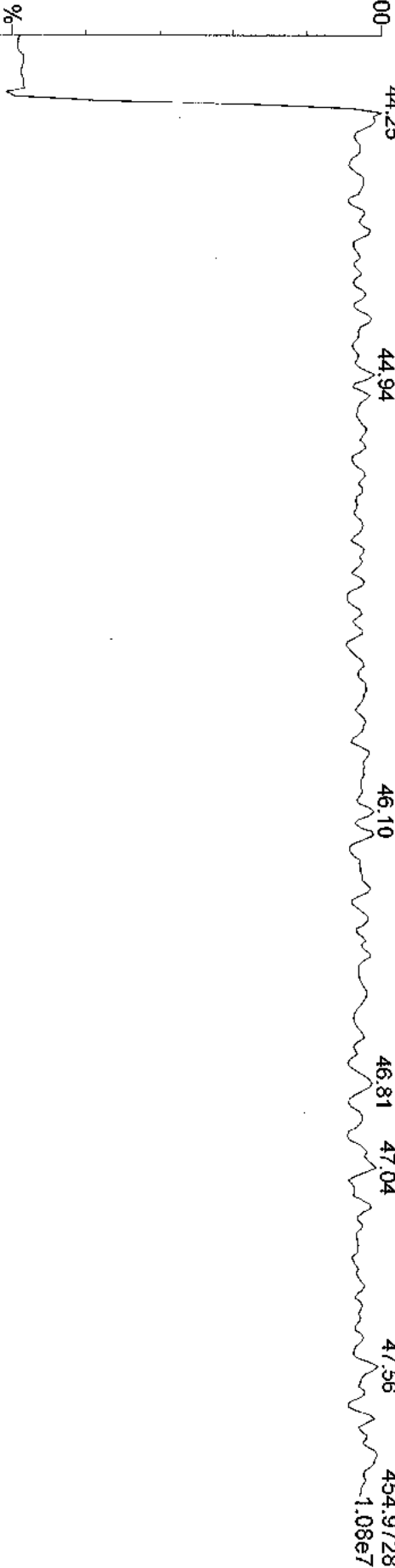
M3211210A06 Sm (SG, 2x2)

AutoSpec Ultima - M536

10-Dec-2021

23:42:09

5: Voltage SIF 8 Channels EI+



REZ800-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-03-B-04*, S

23:42:09

M3211210A06 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

319.8965
2.85e4
Area

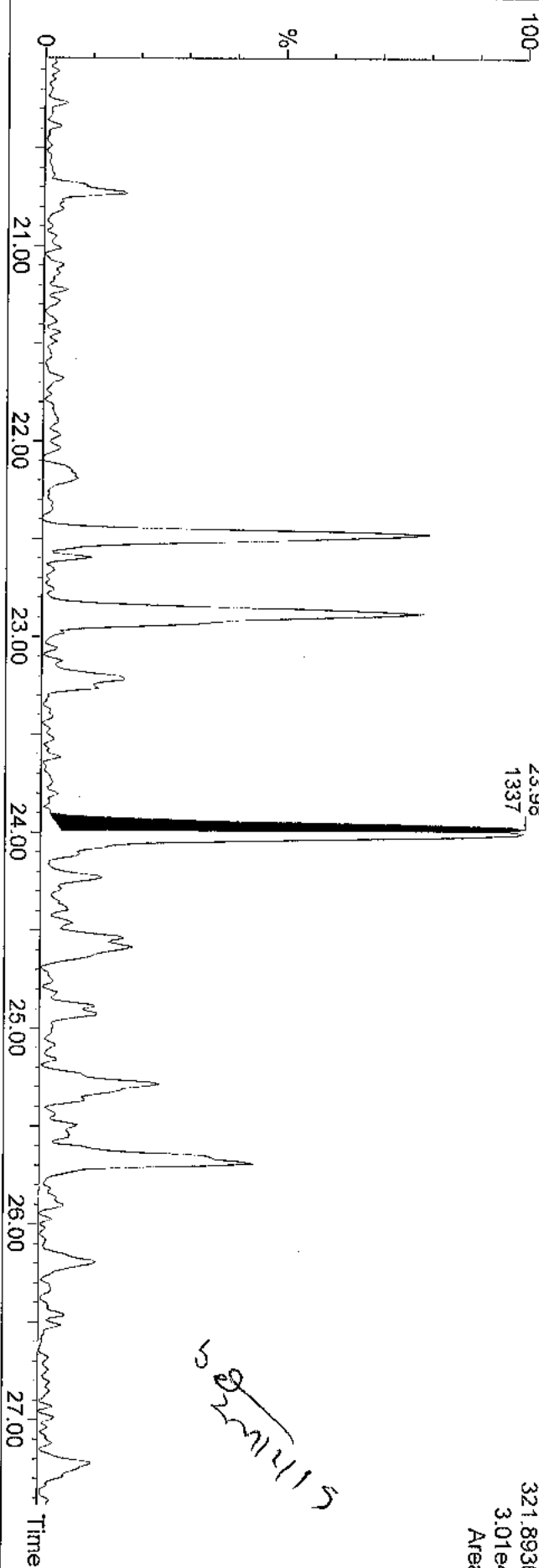
23.98
2121

M3211210A06 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

321.8936
3.01e4
Area

23.98
1337



REZ800-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-03-B-04*, S

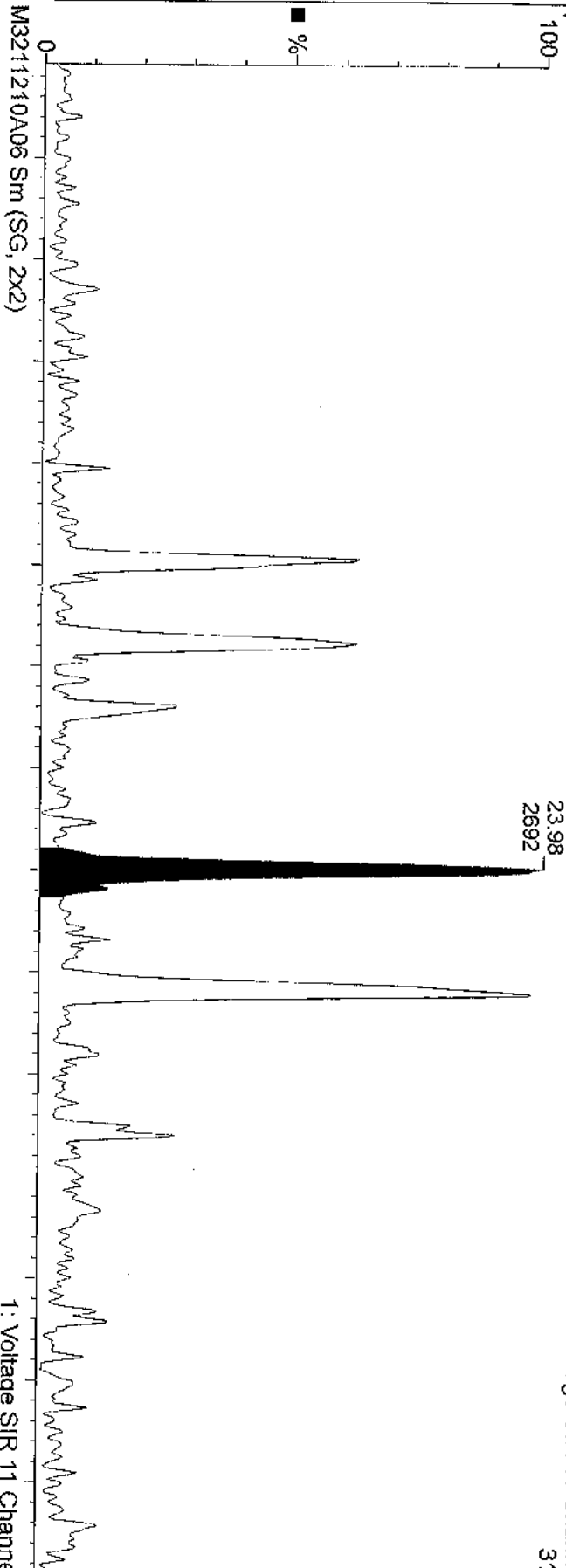
23:42:09

M3211210A06 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

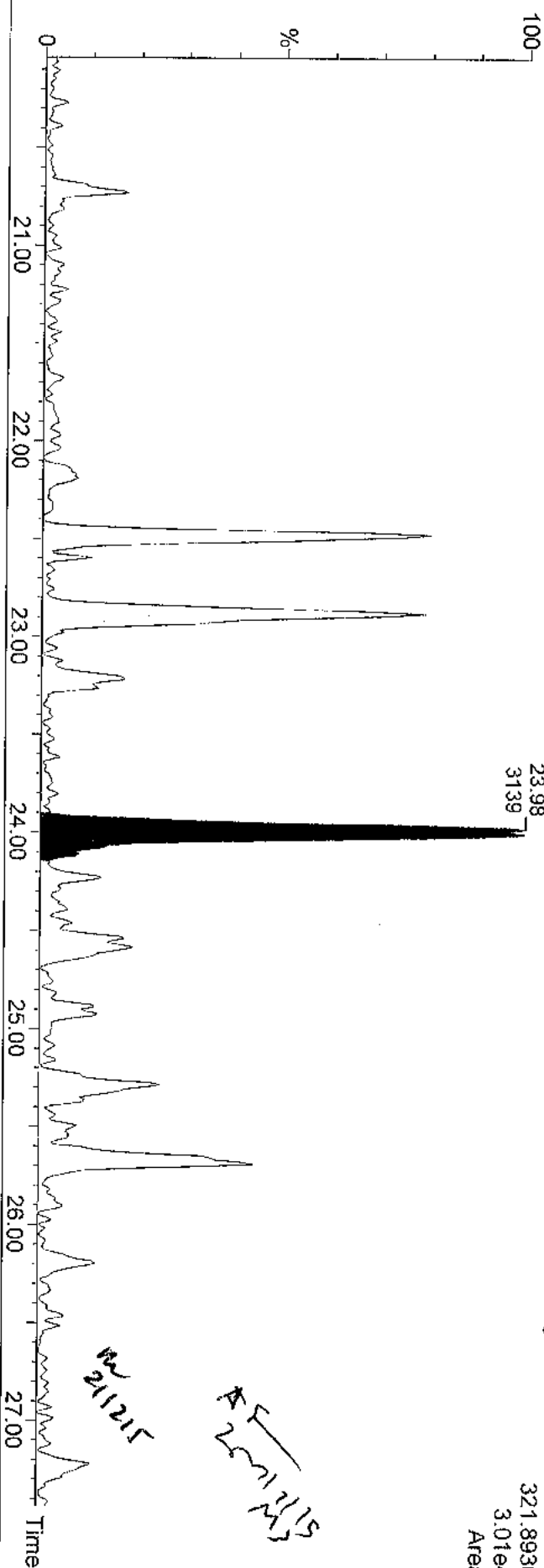
319.8965
2.85e4
Area

616 of 729



23.98
3139

1: Voltage SIR 11 Channels EI+
321.8936
3.01e4
Area



7716247

AP 23/11/21

REZ800-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-03-B-04*, S

23:42:09

M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.46
2636

407.7818
7.93e4
Area

M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.46
2277

409.7788
8.16e4
Area

M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.45
889773

417.8253
1.69e7
Area

very small

M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.45
1960439

419.8220
3.69e7
Area

40.60 40.80 41.00 41.20 41.40 41.60 41.80 42.00 42.20 42.40 Time

REZ800-01R

AutoSpec Ultima - M536

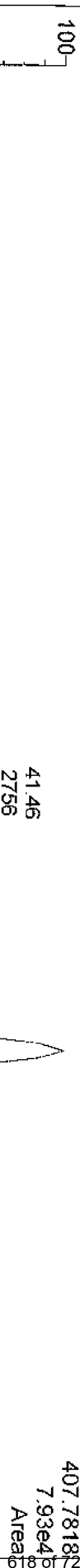
10-Dec-2021

7716247: APEX PDI-CORE-03-B-04*, S

23:42:09

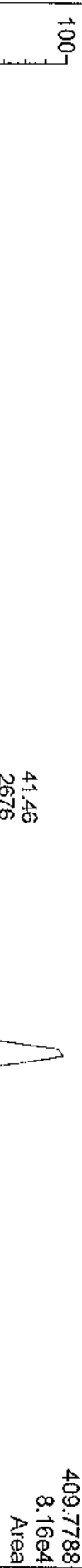
M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



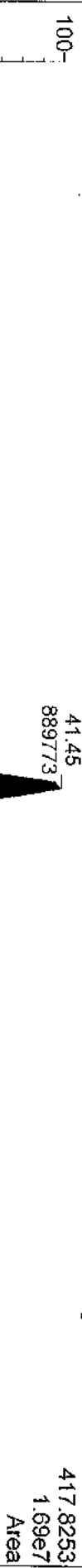
M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



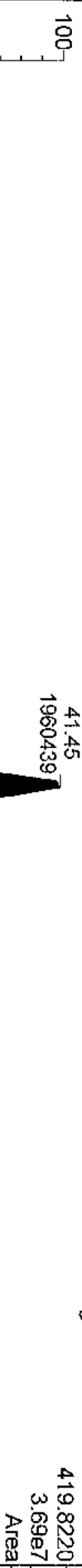
M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+



Time

REZ800-01R

AutoSpec Ultima - M536

10-Dec-2021

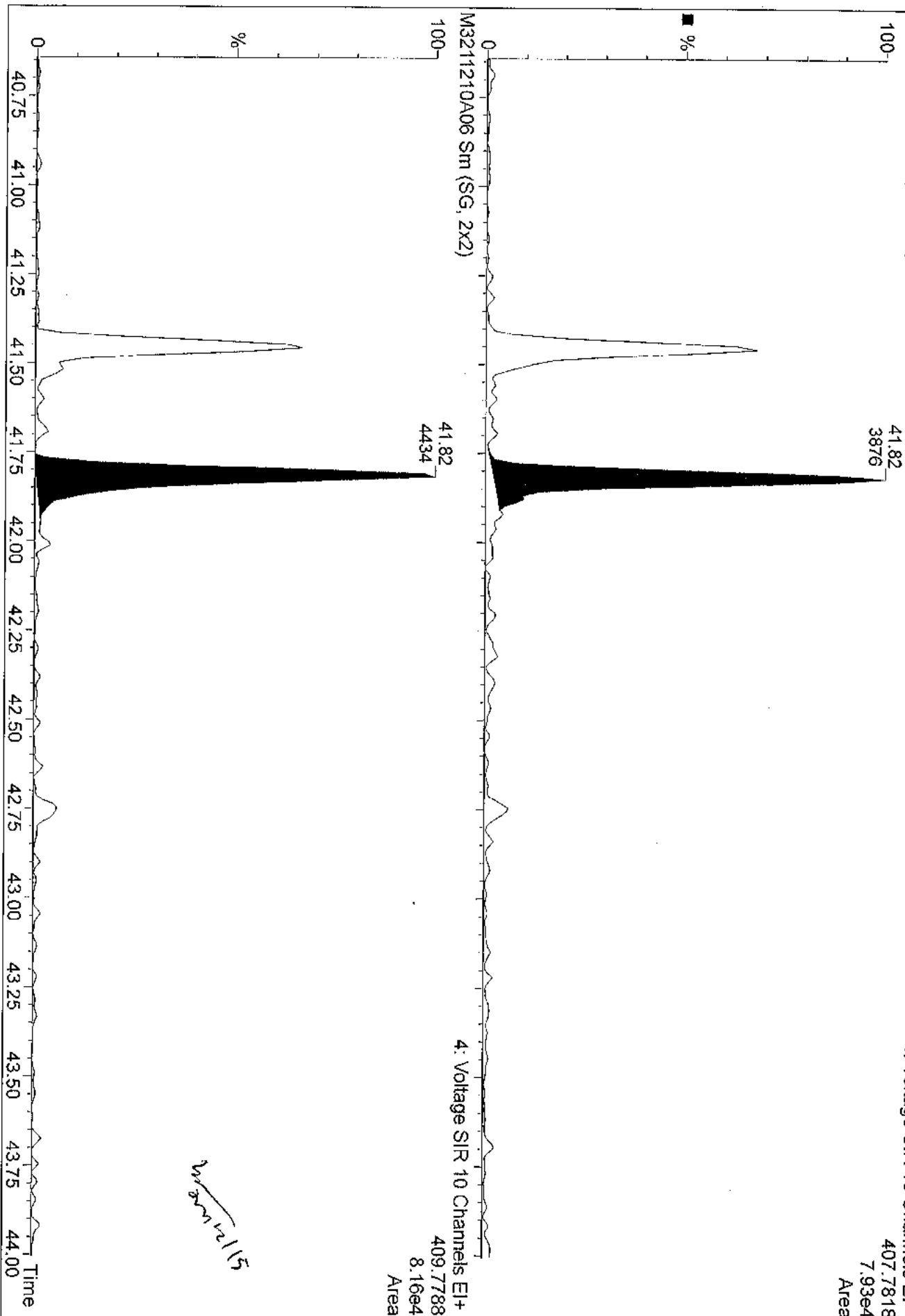
7716247: APEX_PDI-CORE-03-B-04*, S

23:42:09

M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

407.7818
7.93e4
Area



REZ800-01R

AutoSpec Ultima - M536

10-Dec-2021

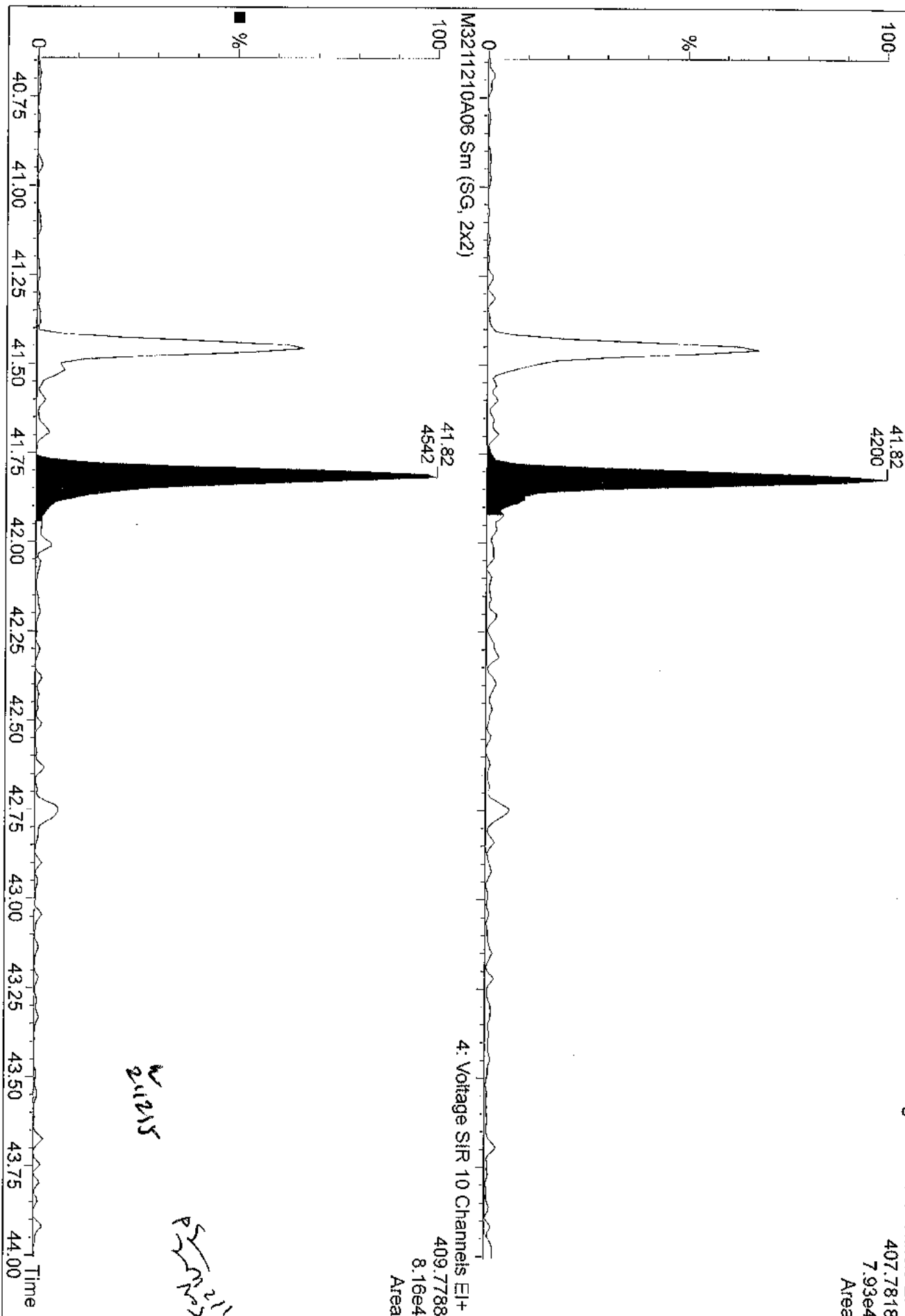
7716247: APEX_PDI-CORE-03-B-04+, S

23:42:09

M3211210A06 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

407.7818
7.93e4
Area



REZ800-01R

AutoSpec Ultima - M536

10-Dec-2021

7716247: APEX_PDI-CORE-03-B-04*, S

23:42:09

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.45
1877

441.7428
2.79e4
Area

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.45
1945

443.7398
2.97e4
Area

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
1291752

469.7780
1.69e7
Area

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
1419788

471.7750
1.84e7
Area

WMA 2/1/15

43.50 44.00 44.50 45.00 45.50 46.00 46.50 47.00 Time

REZ800-01R

AutoSpec Ultima - M536

10-Dec-2021

#716247: APEX_PDI-CORE-03-B-04*, S

23:42:09

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.45
2116

441.7428
2.79e4
Area

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.45
2378

443.7398
2.97e4
Area

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
1291752

469.7780
1.69e7
Area

M3211210A06 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.34
1419788

471.7750
1.84e7
Area

21120

1115

File: M3211210A07
Sample
Acqu 2021/11/12 0:33
Sam: RE2801-01R
Com: RE2801-01R
Sam: 20.0164

Run
II File: 1127A_1613_5pt
7716247: APEX_PDI-CORE-03-B-05*, S
II Fac 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs. Resp	pg	Codo	TCF	LDD (pg)	S/N	Mod. User	RRF Mean	% Rec
1	2,3,7,8-TCDF	304	-	0	-	0	-0.112233		-0.011	0.03 Max IF	-0.112233	-	0.97161	-
		306	24.57	0	-						-			
2	1,2,3,7,8-PeCDF	340	-	0	-	0	-0.143506		-0.007		-0.143506	-	0.979466	-
		342	31.93	0	-						-			
3	2,3,4,7,8-PeCDF	340	-	0	-	0	-0.128982		-0.064		-0.128982	-	1.089756	-
		342	33.58	0	-						-			
4	1,2,3,4,7,8-HxCDF	374	38.12	735	1.04	1439	-0.116076		-0.012		-0.116076	*	1.159483	-
		376	38.11	704	no						*			
5	1,2,3,6,7,8-HxCDF	374	38.24	525	1.18	971	-0.122951		-0.012		-0.122951	*	1.094648	-
		376	38.25	446	no						*			
6	2,3,4,6,7,8-HxCDF	374	-	0	-	0	-0.114389		-0.011		-0.114389	-	1.176583	-
		376	38.89	0	-						-			
7	1,2,3,7,8,9-HxCDF	374	-	0	-	0	-0.122652		-0.012		-0.122652	-	1.097314	-
		376	39.70	0	-						-			
8	1,2,3,4,6,7,8-HpCDF	408	41.46	3821	1.06	7414	0.389081		0.004		-0.130936	9	1.208367	-
		410	41.43	3592	yes						9			
9	1,2,3,4,7,8,9-HpCDF	408	-	0	-	0	-0.134423		-0.001		-0.134423	-	1.177018	-
		410	42.71	0	-						-			
10	OCDF	442	45.45	4016	0.85	8767	0.888771		0.001		-0.125551	18	1.239902	-
		444	45.41	4751	yes						19			
11	2,3,7,8-TCDD	320	-	0	-	0	-0.127944		-0.128		-0.127944	-	1.240957	-
		322	25.73	0	-						-			
12	1,2,3,7,8-PeCDD	356	-	0	-	0	-0.131502		-0.066		-0.131502	-	1.116262	-
		358	34.31	0	-						-			
13	1,2,3,4,7,8-HxCDD	390	-	0	-	0	-0.120145		-0.012		-0.120145	-	1.111453	-
		392	39.05	0	-						-			
14	1,2,3,6,7,8-HxCDD	390	39.19	1303	1.24	2356	0.127296		0.013		-0.119265	3	1.119618	-
		392	39.17	1053	yes						3			
15	1,2,3,7,8,9-HxCDD	390	39.53	1556	1.08	3000	0.127228		0.017		-0.119508	3	1.117372	-
		392	39.50	1444	yes						3			
16	1,2,3,4,6,7,8-HpCDD	424	42.40	15028	1.03	29647	2.277033		0.023		-0.116781	51	1.034762	-
		426	42.36	14619	yes						53			
17	OCDD	458	45.35	103512	0.95	212414	25.32004		0.025		-0.120559	519	1.054514	-
		460	45.29	108902	yes						524			
18	13C-2,3,7,8-TCDF	316	24.59	2621322	0.78	5985471	1308.608				0.65	4772	2.144584	65
		318	24.57	3364149	yes						7876			
19	13C-1,2,3,7,8-PeCDF	352	31.94	2690923	1.57	4408905	1310.54				0.571	8435	1.577374	66
		354	31.89	1717981	yes						8633			
20	13C-2,3,4,7,8-PeCDF	352	33.60	3129585	1.61	5068590	1548.881				0.587	9485	1.534347	77
		354	33.57	1939005	yes						5288			
21	13C-1,2,3,4,7,8-HxCDF	384	38.09	1317780	0.51	3886908	1321.248				1.184	2702	1.332773	66
		386	38.09	2569128	yes						3883			
22	13C-1,2,3,6,7,8-HxCDF	384	38.22	1409340	0.49	4289835	1354.244				1.1	2797	1.435092	68
		386	38.20	2880495	yes						4054			
23	13C-2,3,4,6,7,8-HxCDF	384	38.89	1491018	0.52	4337961	1468.386				1.179	2921	1.338387	73
		386	38.87	2846944	yes						4174			
24	13C-1,2,3,7,8,9-HxCDF	384	39.73	1243871	0.52	3645077	1320				1.261	2490	1.251033	66
		386	39.69	2401206	yes						3587			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.44	975959	0.45	3150776	1127.189				1.064	2647	1.266359	56
		420	41.41	2174817	yes						4285			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.74	857307	0.45	2766041	1178.564				1.268	2206	1.063266	59
		420	42.71	1908735	yes						3611			
27	13C-2,3,7,8-TCDD	332	25.66	1494734	0.82	3326966	1345.873				0.963	4602	1.159041	67
		334	25.70	1832233	yes						3548			
28	13C-1,2,3,7,8-PeCDD	368	34.32	1742470	1.57	2851049	1627.157				0.884	5501	0.821541	81
		370	34.29	1108579	yes						5270			
29	13C-1,2,3,4,7,8-HxCDD	402	39.08	1643408	1.3	2906578	1445.7				0.902	5776	0.910836	72
		404	39.06	1263171	yes						4671			
30	13C-1,2,3,6,7,8-HxCDD	402	39.18	1852111	1.28	3301982	1571.763				0.863	5861	0.931752	79
		404	39.15	1449872	yes						4833			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.39	1273995	1.13	2398529	1154.098				1.231	2625	0.941539	58
		438	42.36	1124534	yes						3345			
32	13C-OCDD	470	45.34	1519588	0.92	3179586	1908.97				0.613	7198	0.754584	48
		472	45.29	1659998	yes						9410			
33	13C-1,2,3,4-TCDD	332	25.36	1937587	0.83	4265356	92.024				0.051	6318	46352.42	5
		334	25.34	2327969	yes						4769			
34	13C-1,2,3,7,8,9-HxCDD	402	39.52	2399481	1.19	4414625	83.045				0.034	7698	53159.29	4
		404	39.49	2015144	yes						6460			
35	Cl37-2,3,7,8-TCDD	328	25.68	452669	1	905338	168.587				0.151	3171	2.517916	84
		328	25.62	452669	yes				# Isomers		3171			
36	Totals Tetra-Furans	304	-	0	-	0	-0.112233		0		-0.112233	-	0.97161	-
		306	26.00	0	-						-			
37	Totals Tetra-Dioxins	320	23.99	-3608.22	0.77	-8294.22	-0.403222		0		-0.127944	-	1.240957	-
		322	26.00	-4686	OK						-			
38	Totals Penta-Furans	340	27.77	-2343.6	1.55	-3855.6	-0.15704		0		-0.135857	-	1.034611	-

		342	34.00	-1512	OK							
39	Totals Penta-Dioxins	356	-	0	-	0	-0.131502	0	-0.131502	-	1.116262	-
		358	34.00	0	-					-		
40	Totals Hexa-Furans	374	-	0	-	0	0.423856	2	-0.118893	-	1.132007	-
		376	39.50	0	-					-		
41	Totals Hexa-Dioxins	390	-	0	-	0	1.42492	4	-0.120498	-	1.108192	-
		392	39.50	0	-					-		
42	Totals Hepta-Furans	408	-	0	-	0	1.009034	2	-0.132657	-	1.192692	-
		410	42.50	0	-					-		
43	Totals Hepta-Dioxins	424	-	0	-	0	5.571517	2	-0.116781	-	1.084762	-
		426	42.50	0	-					-		

Totals Compound 36: Totals Tetra-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
36	Totals Tetra-Furans	304	21.86	692	1.12	1308	0.044963	2		0.97161	-
		306	26.00	616	no			1			
36	Totals Tetra-Furans	304	22.57	400	0.51	1185	0.040667	1		0.97161	-
		306	26.00	785	no			1			
36	Totals Tetra-Furans	304	23.00	443	1.38	763	0.026179	1		0.97161	-
		306	26.00	320	no			1			
36	Totals Tetra-Furans	304	23.80	394	1.21	718	0.02468	1		0.97161	-
		306	26.00	325	no			1			
36	Totals Tetra-Furans	304	25.35	874	1.46	1474	0.050658	2		0.97161	-
		306	26.00	599	no			1			

Totals Compound 37: Totals Tetra-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
37	Totals Tetra-Dioxins	320	22.50	333	0.78	758	0.03667	1		1.240957	-
		322	26.00	425	no			1			
37	Totals Tetra-Dioxins	320	23.99	3608.22	0.77	8294.27	-0.403222	10	XL	1.240957	-
		322	26.00	4686	OK			9			
37	Totals Tetra-Dioxins	320	24.59	1769	5.59	2085	0.100917	5		1.240957	-
		322	26.00	316	no			1			

Totals Compound 38: Totals Penta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
38	Totals Penta-Furans	340	27.77	2343.6	1.55	3855.6	-0.15704	4	XL	1.034611	-
		342	34.00	1512	OK			4			

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
39	Totals Penta-Dioxins	356	31.46	1148	1.4	1965	0.123399	2		1.116262	-
		358	34.00	817	no			2			

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
40	Totals Hexa-Furans	374	36.76	924	1.63	1493	0.065279	1		1.132007	-
		376	39.50	569	no			1			
40	Totals Hexa-Furans	374	36.95	2352	1.15	4405	0.192602	3		1.132007	-
		376	39.50	2053	yes			4			
40	Totals Hexa-Furans	374	37.60	3085	1.4	5289	0.231254	5		1.132007	-
		376	39.50	2204	yes			5			
4	1,2,3,4,7,8-HxCDF	374	38.12	735	1.04	1439	0.063848	1		1.159483	-
		376	38.11	704	no			1			
5	1,2,3,6,7,8-HxCDF	374	38.24	525	1.18	971	0.041266	1		1.094648	-
		376	38.25	446	no			1			

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.53	6908	1.29	12269	0.712254	15		1.108192	-
		392	39.50	5361	yes			14			
41	Totals Hexa-Dioxins	390	38.09	1807.92	1.24	3265.92	-0.1896	8	XL	1.108192	-
		392	39.50	1458	OK			3			
41	Totals Hexa-Dioxins	390	38.22	1386.32	1.24	2504.32	-0.14538	10	XL	1.108192	-
		392	39.50	1118	OK			3			
41	Totals Hexa-Dioxins	390	38.43	4050	1.33	7108	0.412642	8		1.108192	-
		392	39.50	3057	yes			8			
41	Totals Hexa-Dioxins	390	38.89	2245.64	1.24	4056.64	-0.2355	17	XL	1.108192	-
		392	39.50	1811	OK			6			
14	1,2,3,6,7,8-HxCDD	390	39.19	1303	1.24	2356	0.127296	3		1.119648	-
		392	39.17	1053	yes			3			
15	1,2,3,7,8,9-HxCDD	390	39.53	1556	1.08	3000	0.172728	3		1.093474	-
		392	39.50	1444	yes			3			
41	Totals Hexa-Dioxins	390	39.73	3901	4.82	4711	0.273488	9		1.108192	-
		392	39.50	810	no			2			

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec

8	1,2,3,4,6,7,8-HpCDF	408	41.46	3821	1.06	7414	0.389081	9	1.208367	-
		410	41.43	3592	yes			9		
42	Totals Hepta-Furans	408	41.82	5540	1.03	10918	0.619953	12	1.192692	-
		410	42.50	5379	yes			11		

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs. Resp	pg	S/N	Mod, User	RRF Mean	%Rec
43	Totals Hepta-Dioxins	424	41.44	9573	2.68	13148	1.004706	35		1.084762	-
		426	42.50	3575	no			14			
43	Totals Hepta-Dioxins	424	41.75	22803	1.12	43113	3.294485	81		1.084762	-
		426	42.50	20310	yes			75			
16	1,2,3,4,6,7,8-HpCDD	424	41.40	15028	1.03	29647	2.277033	51		1.084762	-
		426	42.36	14619	yes			53			
43	Totals Hepta-Dioxins	424	42.74	8238	2.58	11435	0.873806	27		1.084762	-
		426	42.50	3197	no			10			

Quantify Sample Report

Sample Name: C:\MSSTX\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTX\Default.pro\METHOD\M321121A_MC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

36: Totals Tetra-Purans

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

M3211210A07 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

303.9016

1.26e4

Area

1.91e5

M3211210A07 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

305.8987

1.21e4

Area

1.83e5

M3211210A07 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

315.9419

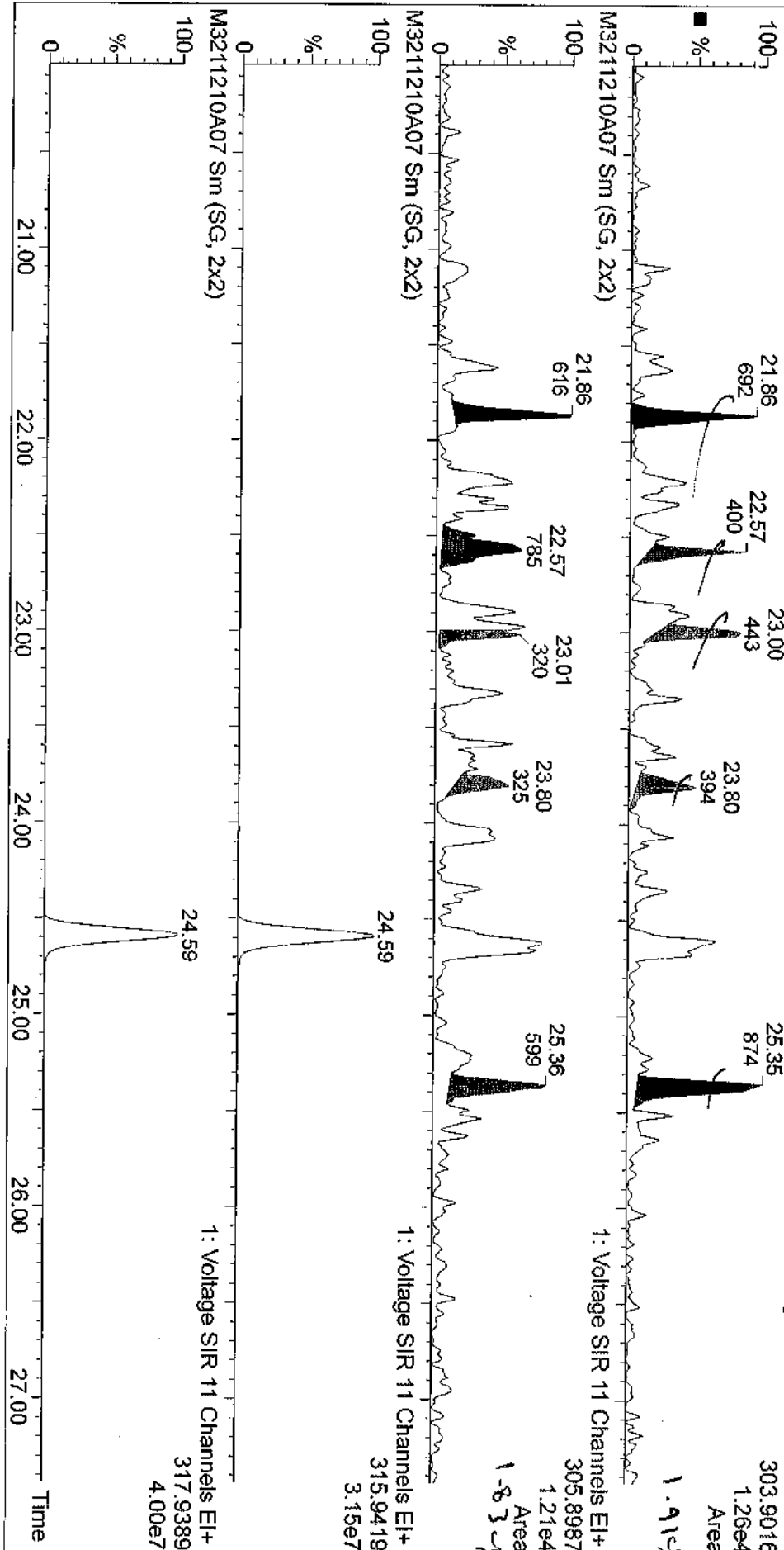
3.15e7

M3211210A07 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

317.9389

4.00e7



6.7423

Quantify Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

37: Totals Tetra-Dioxins

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05+, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

1: Voltage SIF 11 Channels EI+

319.8965

5.02e4

Area

1.15e3

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

M3211210A07 Sm (SG, 2x2)

5.07

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M3211217A_HQ_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

35: C131-2,3,7,8-TCDD

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30



M3211210A07 Sm (SG, 2x2)



M3211210A07 Sm (SG, 2x2)



M3211210A07 Sm (SG, 2x2)



Quantity Sample Report

Sample List: C:\MSI\MSI\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSI\MSI\Default.pro\METHOD\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
Text: REZ801-01R

38: Hexa DB

REZ801-01R

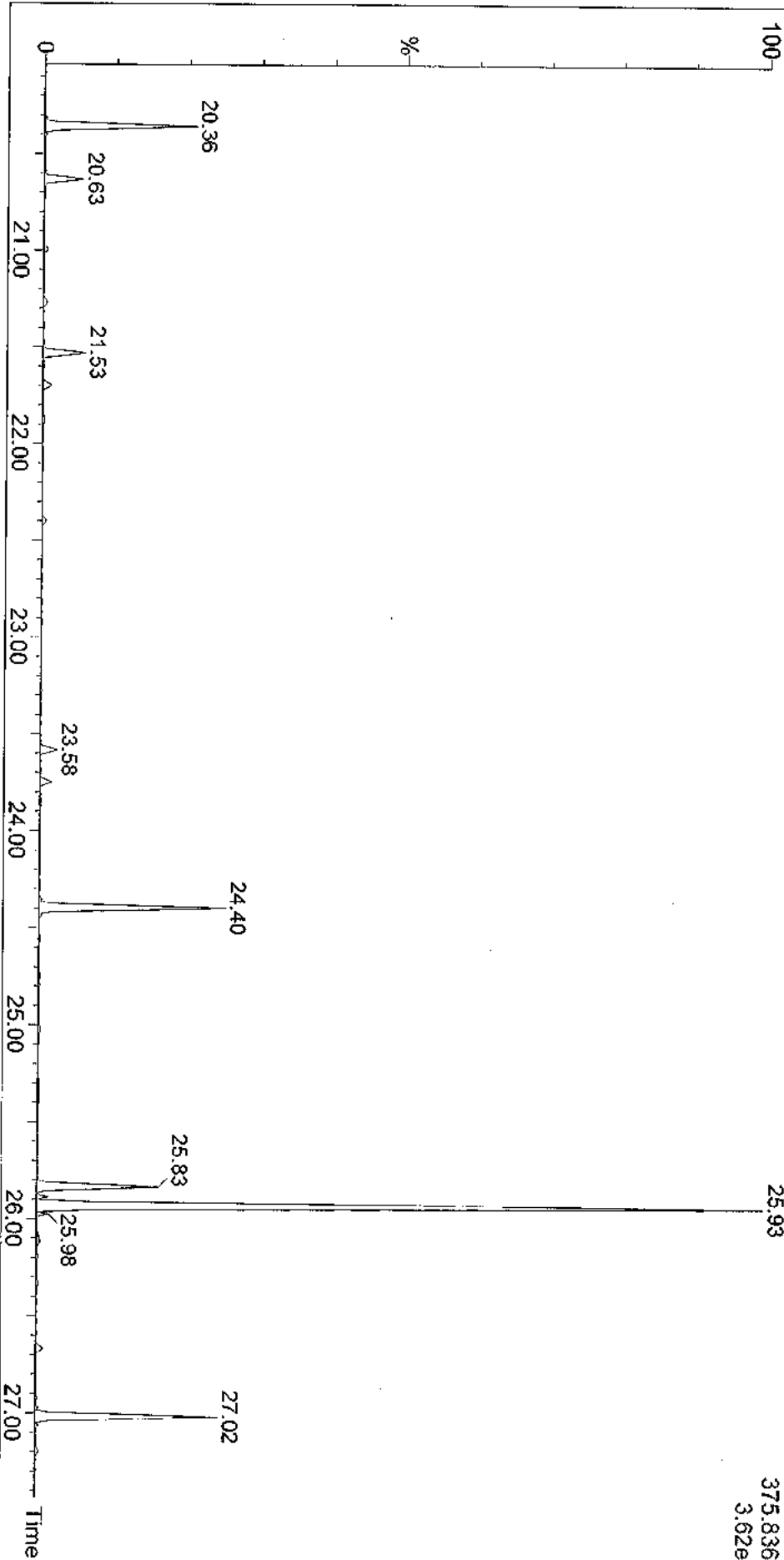
7716247: APEX_PDI-CORE-03-B-05*, S
M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

1: Voltage SIR 11 Channels EI+
375.8364
3.62e3



Quantity Sample Report

Sample list: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:21 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

39: Function 1 Lockmass

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

1: Voltage SIR 11 Channels EI+

26.95 316.9824

5.31e6

20.47 20.72 21.02 21.60 22.30 22.75 23.08 23.34 23.51 23.92 24.30 24.66 25.21 25.36 25.79 25.91 26.37



21.00 22.00 23.00 24.00 25.00 26.00 27.00 Time

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAFELDE\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_EC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

40: Total: Penta-Pureus

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

27.77
 29.55

2.03

M3211210A07 Sm (SG, 2x2)

27.76
 1512

341.8568
 2.02e4
 Area
 1.31e3

M3211210A07 Sm (SG, 2x2)

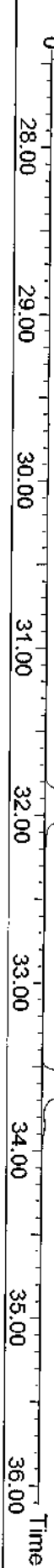
31.94

2: Voltage SIF 10 Channels EI+
 351.9000
 3.35e7

M3211210A07 Sm (SG, 2x2)

31.94

2: Voltage SIF 10 Channels EI+
 353.8970
 2.12e7



Quantify Sample Report

Sample List: C:\MSSTLXK\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTLXK\Default.pro\METHOD\M3211127A_Hc_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

41: Totals: Penta-Dioxins

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

2: Voltage S/R 10 Channels EI+

355.8546

1.89e4

Area

1.27e4

2: Voltage S/R 10 Channels EI+

357.8517

4.39e4

Area

2.17e4

M3211210A07 Sm (SG, 2x2)

100

%

0

31.44

817

M3211210A07 Sm (SG, 2x2)

100

%

0

34.32

367.8949

2.03e7

M3211210A07 Sm (SG, 2x2)

100

%

0

34.32

369.8919

1.25e7

2: Voltage S/R 10 Channels EI+

28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00 36.00 Time

Quantify Sample Report

Sample List: C:\MSSTYX\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTYX\Default-pro\METHODS\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

42: Hepta DFB

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S
 M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

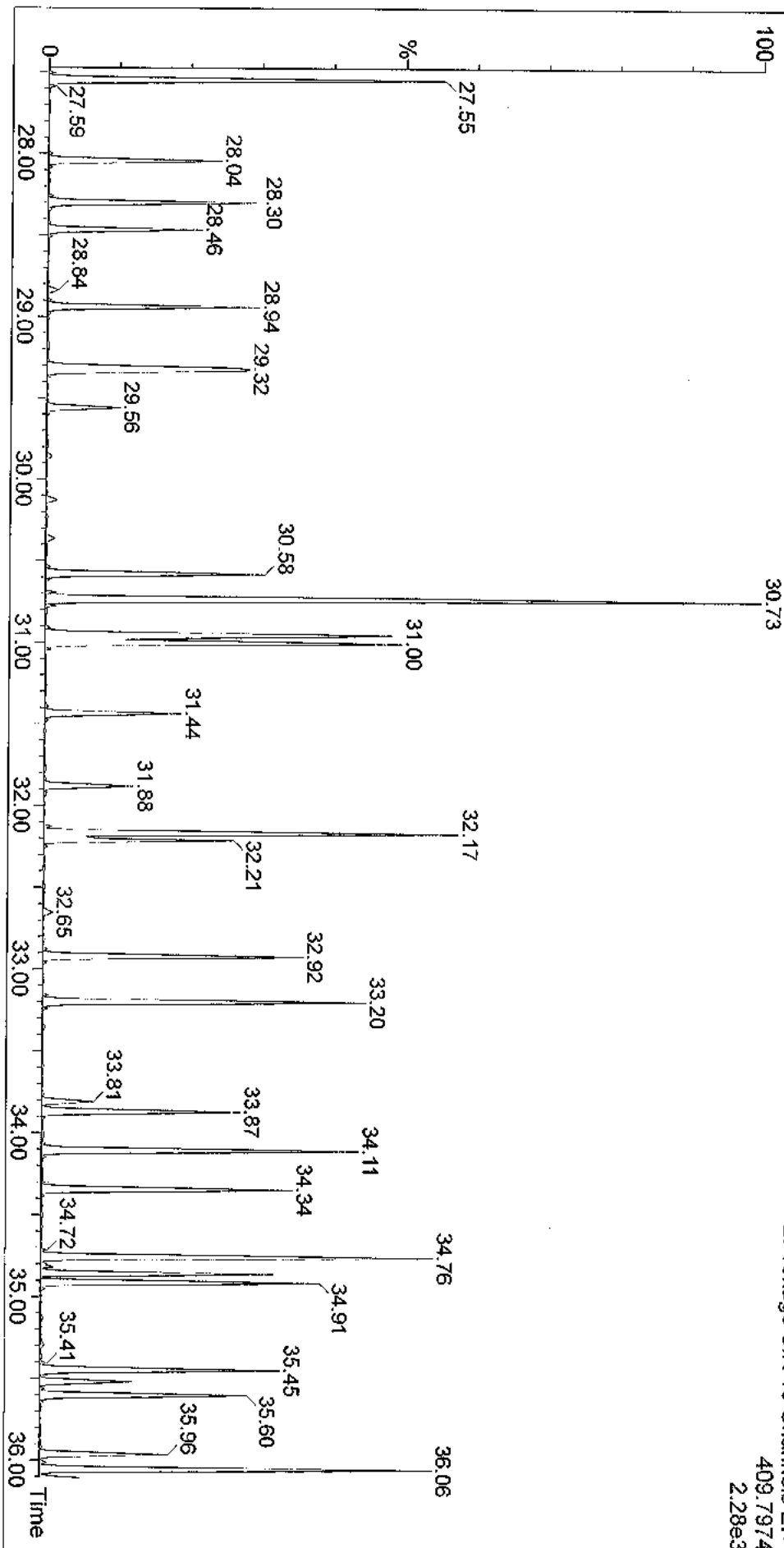
11-Dec-2021

00:33:30

2: Voltage SIF 10 Channels EI+

409.7974

2.28e3



Sample List: C:\MASSL\DATA\Default.prp\SAMPLES\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSL\DATA\Default.prp\METHODS\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
Text: RE2801-01R

43: Function 2 Lockmass

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

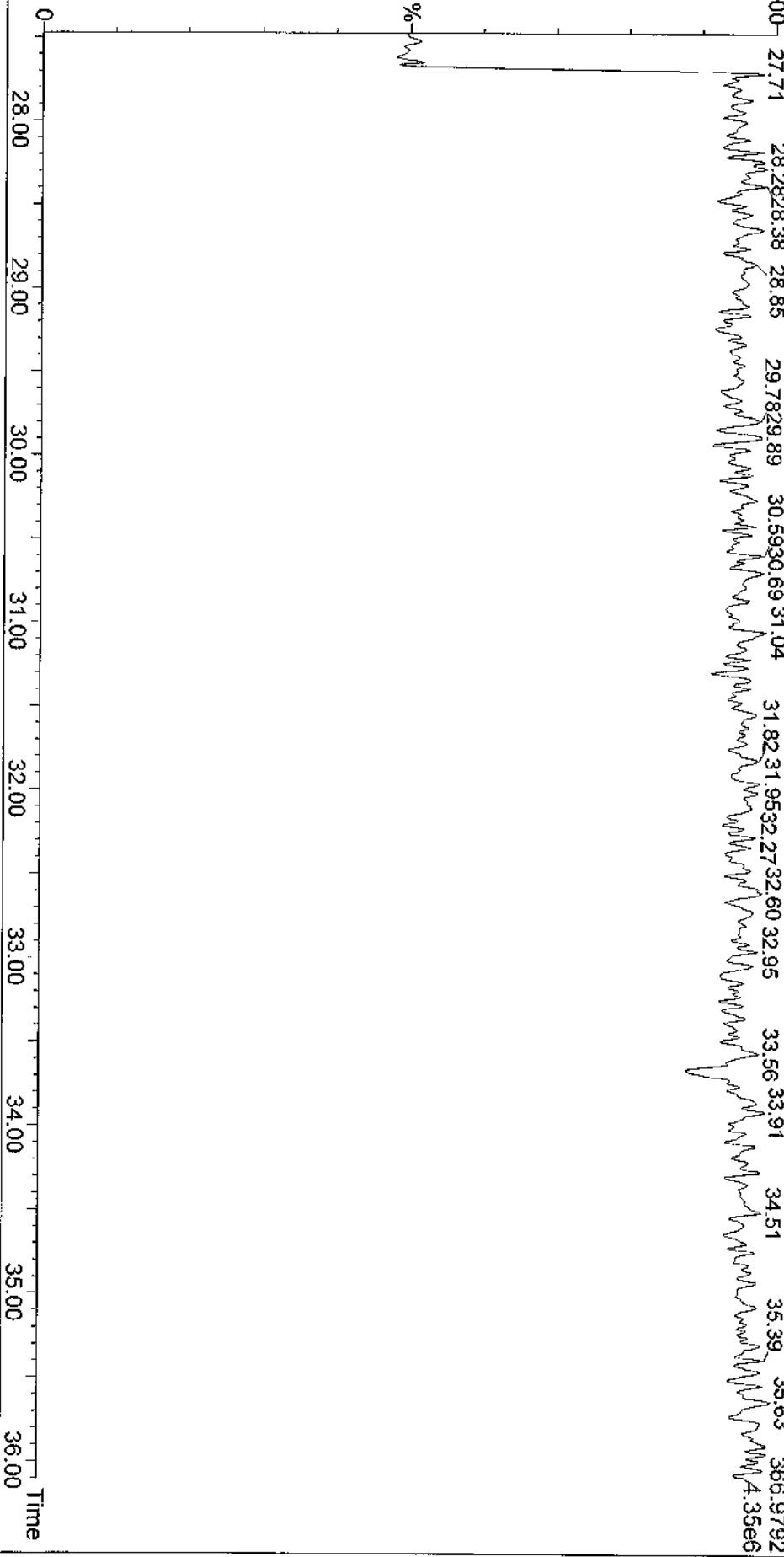
M3211210A07 Sm (SG, 2x2)

[illegible]

2: Voltage SIF 10 Channels EI+ 05 63 000 0700

AutoSpec Ultima - M536

11-Dec-2021
00:33:30



Quantify Sample Report

Sample List: C:\MASSLIVE\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLIVE\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

44: Totals Hexa-Furans

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

M3211210A07 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

373.8207

5.18e4

Area

1.51e3

M3211210A07 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

375.8178

3.69e4

Area

1.21e3

M3211210A07 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

383.8639

2.40e7

Area

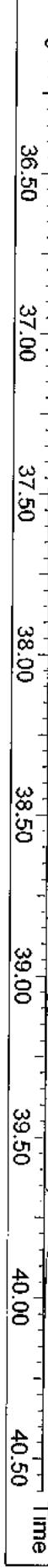
M3211210A07 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

385.8610

4.59e7

Area



2

9.21e3

Quantify Sample Report

Sample Name: C:\MASSLTX\Default.pro\SAMPLEDB\M3211210A_1613
 Test modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLTX\Default.pro\METHODS\M321127A_HC_1613
 Test modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

45: Totals Hexa-Dioxins

REZ801-01R

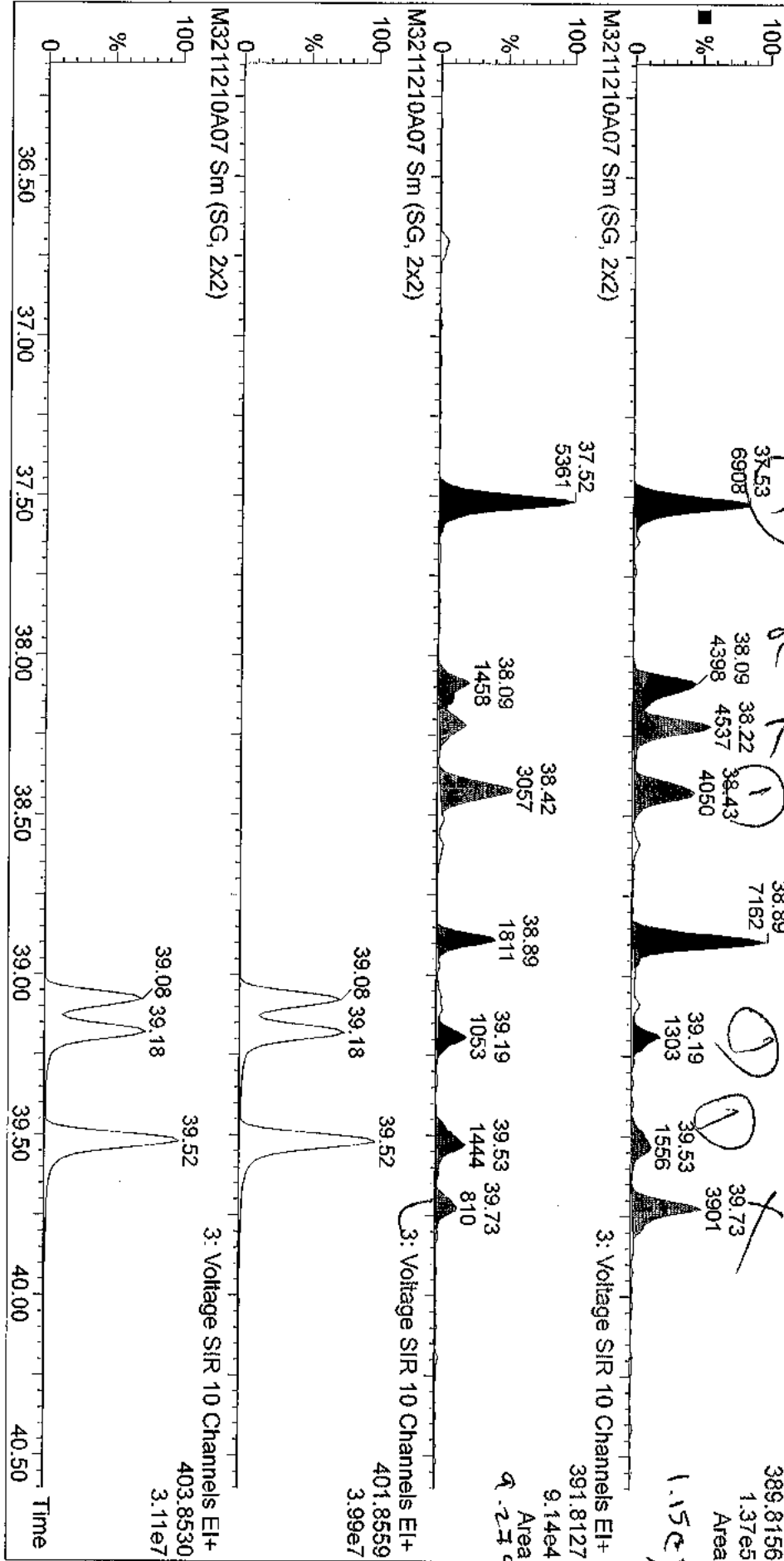
7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30



Quantify Sample Report

Sample List: C:\MASSLIX\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLIX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

46: Octa DB

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2X2)

AutoSpec Ultima - M536

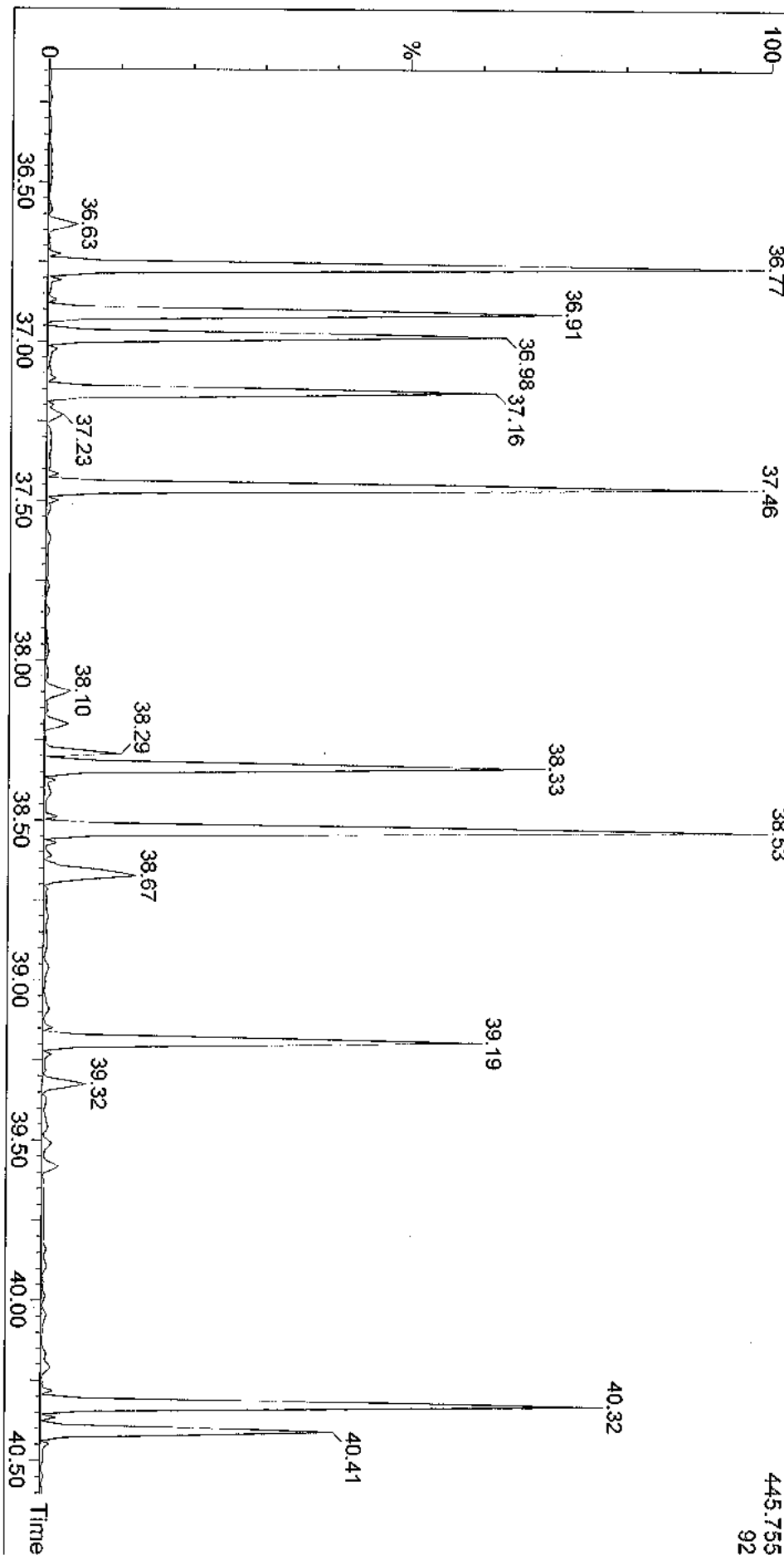
11-Dec-2021

00:33:30

3: Voltage SIR 10 Channels EI+

445.7555

921



Quantify Sample Report

Sample list: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211217A_FC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

47: Function 3 Lockmass

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

3: Voltage S/R 10 Channels EI+

380.9760

2.01e7

100 36.34

37.83

38.79

39.55

40.09

%

36.50 37.00 37.50 38.00 38.50 39.00 39.50 40.00 40.50 Time

Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

48: Totals Hepta-Furans

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

M3211210A07 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

407.7818

1.09e5

Area

%

M3211210A07 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

409.7788

9.71e4

Area

%

M3211210A07 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

417.8253

1.85e7

%

M3211210A07 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

419.8220

4.03e7

%

Time

2

8.76e

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

49: Totals Hepta-Dioxins

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

M3211210A07 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

423.7767

4.23e5

Area

7.79e4

M3211210A07 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

425.7737

3.77e5

Area

7.97e4

M3211210A07 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

435.8169

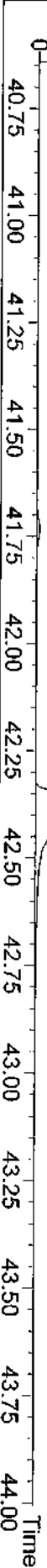
2.12e7

M3211210A07 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

437.8140

2.00e7



Quantity Sample Report

Sample list: C:\MSSTYX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

50: Nona DPE

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2X2)

AutoSpec Ultima - M536

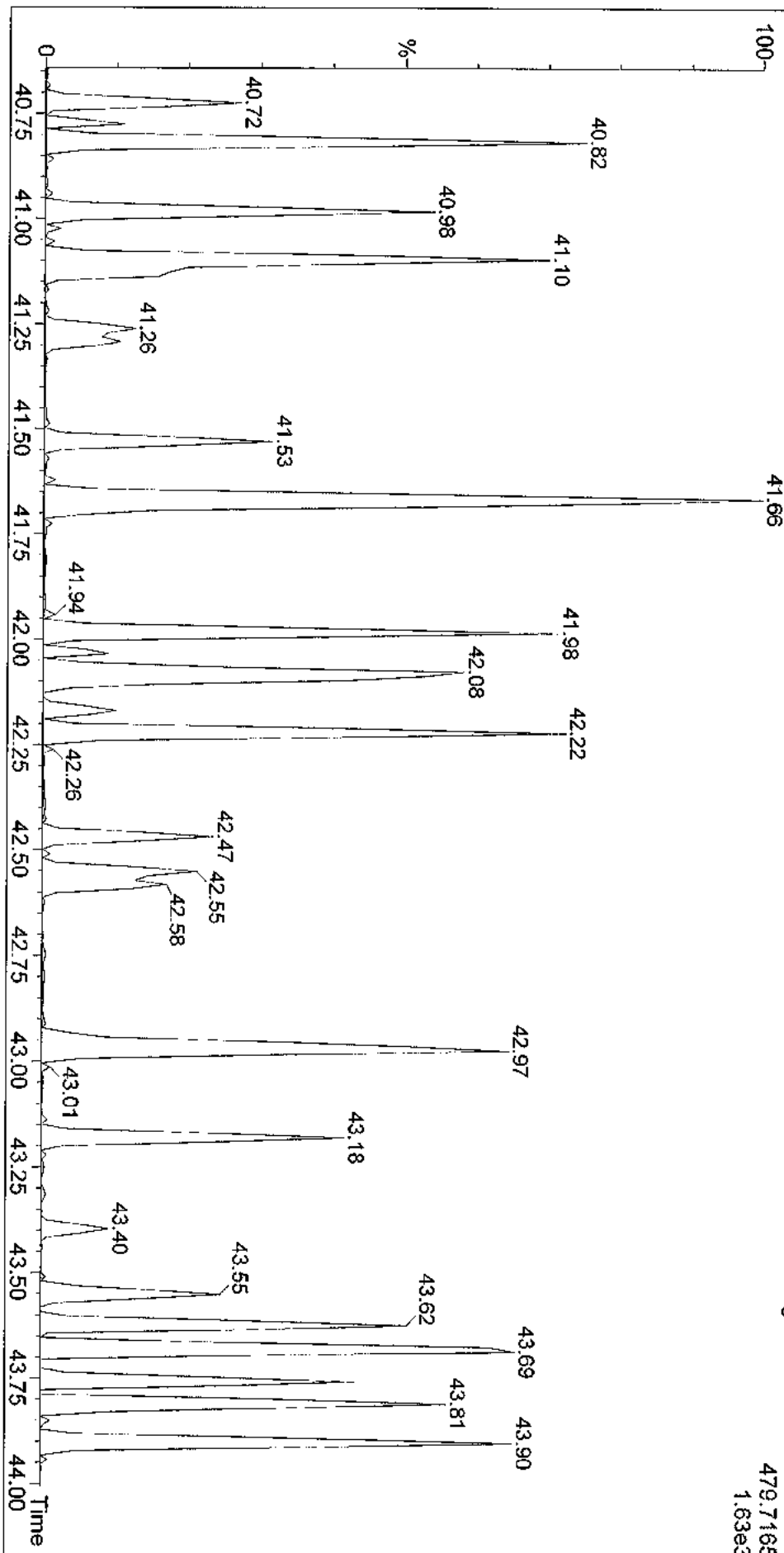
11-Dec-2021

00:33:30

4: Voltage S/R 10 Channels EI+

479.7165

1.63e3



Quantity Sample Report

Sample list: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSLYNX\Default.pro\METHODS\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
Text: REZ801-01R

SI: Function 4 Lockmass

REZ801-01R

AutoSpec Ultima - M536

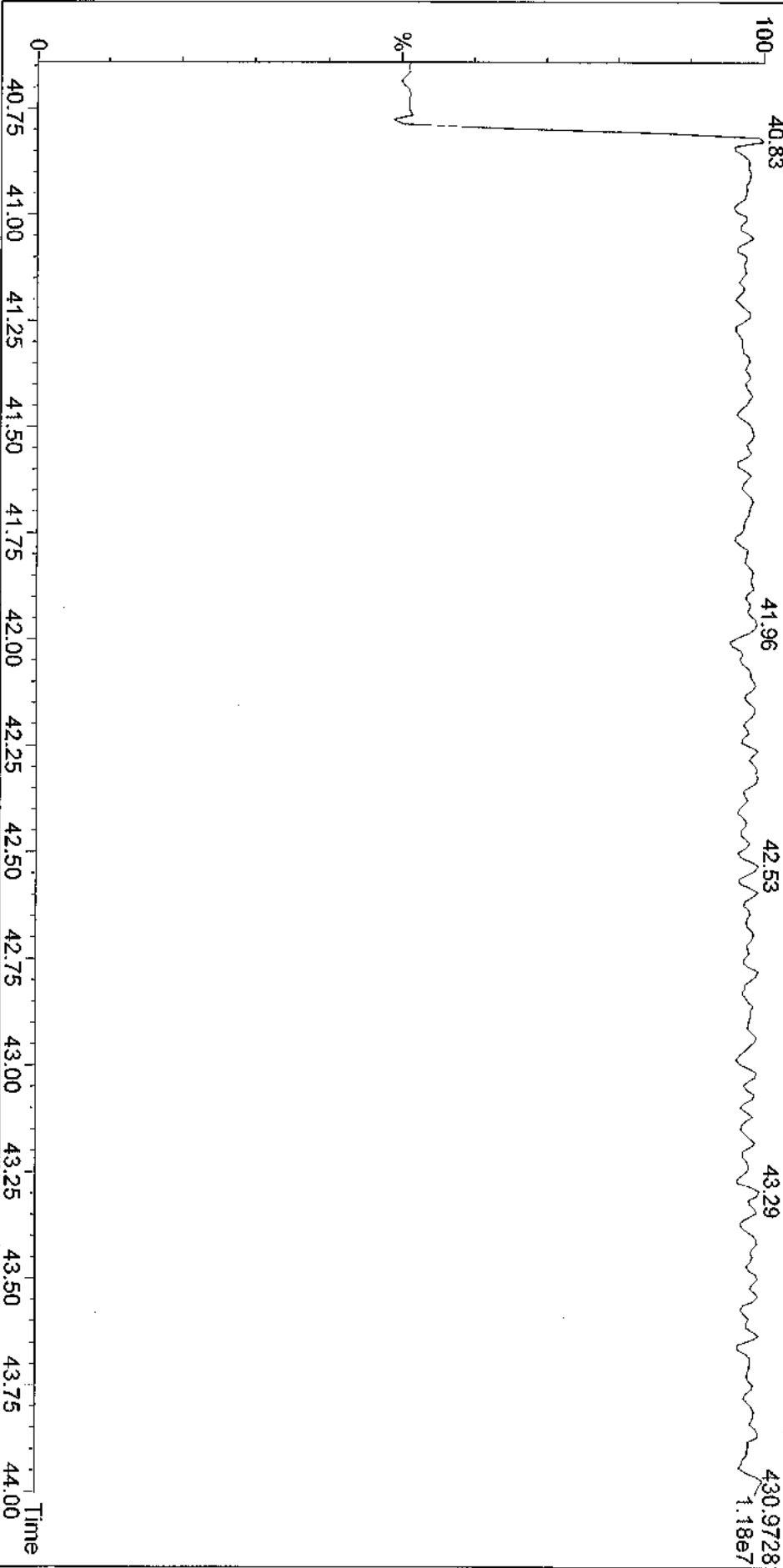
11-Dec-2021

7716247: APEX_PDI-CORE-03-B-05*, S

00:33:30

M3211210A07 Sm (SG, 2x2)

4: Voltage S/R 10 Channels EI+



Quantify Sample Report

Sample List: C:\MASSLTXK\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLTXK\Default.pro\METHODS\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:08:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

10: OCPD

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

5: Voltage S/R 8 Channels EI+

441.7428

6.30e4

Area

5.86

M3211210A07 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

443.7398

7.23e4

Area

6.59

M3211210A07 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

469.7780

2.22e7

Area

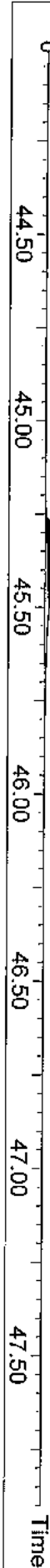
M3211210A07 Sm (SG, 2x2)

5: Voltage S/R 8 Channels EI+

471.7750

2.41e7

Area



Quantity Sample Report

Sample List: C:\MSDCVX\Default.pro\SMPLDDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCVX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

17: OCDD

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30



M3211210A07 Sm (SG, 2x2)



M3211210A07 Sm (SG, 2x2)



M3211210A07 Sm (SG, 2x2)



Quantify Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSDCHEM\Default.pro\METHOD\M3211217A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
Text: REZ801-01R

S2: Decca DPE

REZ801-01R

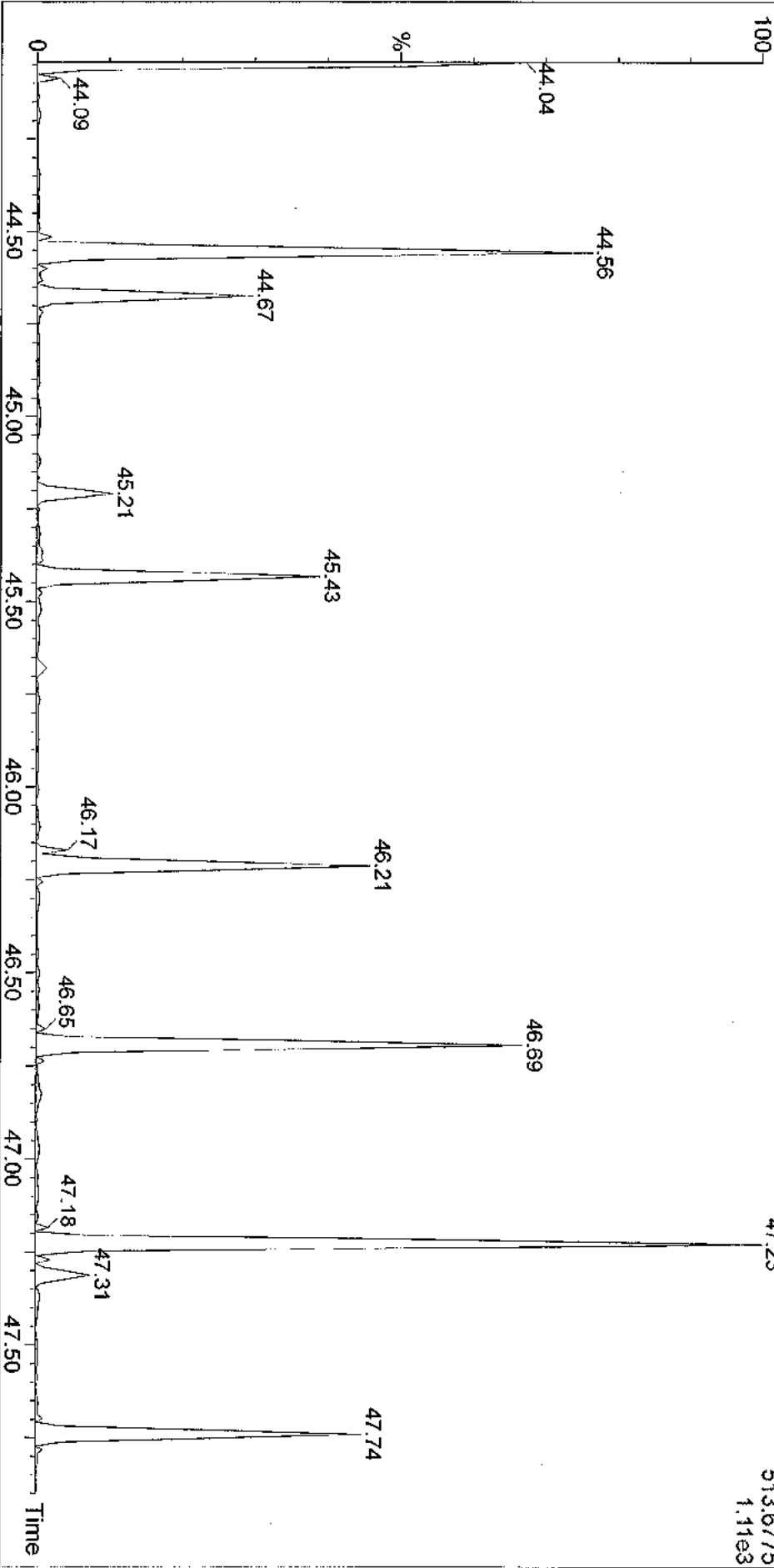
7716247: APEX_PDI-CORE-03-B-05*, S
M3211210A07 Sm (SG, 2X2)

AutoSpec Ultima - M536

11-Dec-2021

00:33:30

5: Voltage S/R 8 Channels EI+
513.6775
1.11e3



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M3211217A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A07
 Text: REZ801-01R

53: Function 5 Lockmass

REZ801-01R

7716247: APEX_PDI-CORE-03-B-05*, S

M3211210A07 Sm (SG, 2X2)

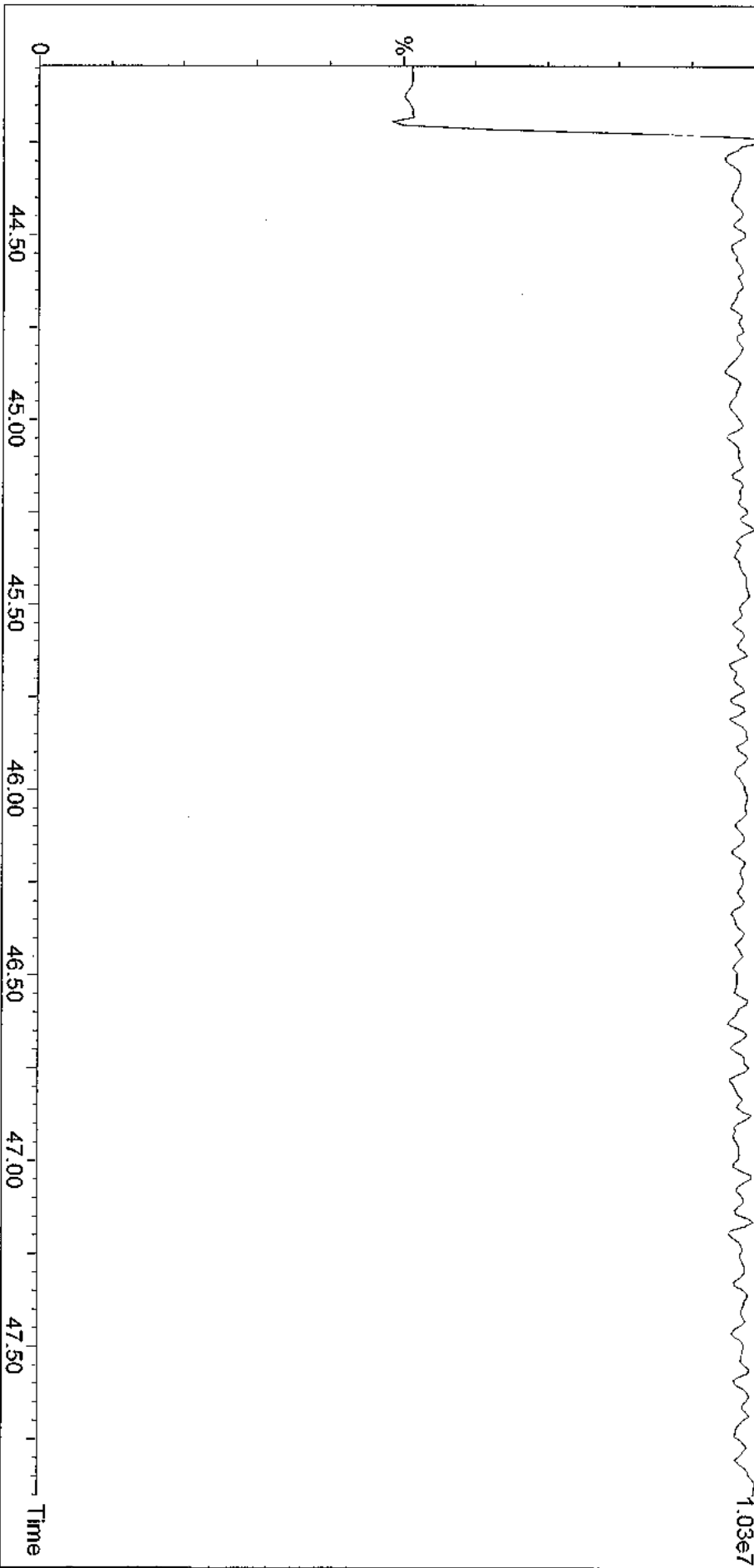
AutoSpec Ultima - M536

11-Dec-2021

00:33:30

5: Voltage SIF 8 Channels EI+

100 44.25 45.29 47.16 454.9728 1.03e7



File# M3211210A08
 Sample Run
 Acq# 2021/11/12 1:24 II File 1127A_1613_5pt
 Sam# REZ812-01R 7716247: APEX_PDI-CORE-103-B-0*, S
 Com REZ812-01R
 Sam# 20.007 H/Fac 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	Code	TEF	LOD(pg)	S/N	Mod.User	RRF Mean	%Rec
1	2,3,7,8-TCDF	304	-	0	-	0	-0.129856		-0.013	-0.129856	-		0.97161	-
		306	24.57	0	-						-			
2	1,2,3,7,8-PeCDF	340	-	0	-	0	-0.112173		-0.006	-0.112173	-		0.979466	-
		342	31.93	0	-						-			
3	2,3,4,7,8-PeCDF	340	-	0	-	0	-0.10082		-0.050	-0.10082	-		1.089756	-
		342	33.58	0	-						-			
4	1,2,3,4,7,8-HxCDF	374	-	0	-	0	-0.052902		-0.005	-0.052902	-		1.159483	-
		376	38.11	0	-						-			
5	1,2,3,6,7,8-HxCDF	374	-	0	-	0	-0.056035		-0.006	-0.056035	-		1.094648	-
		376	38.25	0	-						-			
6	2,3,4,6,7,8-HxCDF	374	-	0	-	0	-0.052133		-0.005	-0.052133	-		1.176583	-
		376	38.89	0	-						-			
7	1,2,3,7,8,9-HxCDF	374	-	0	-	0	-0.055899		-0.006	-0.055899	-		1.097314	-
		376	39.70	0	-						-			
8	1,2,3,4,6,7,8-HpCDF	408	-	0	-	0	-0.107737		-0.001	-0.107737	-		1.208367	-
		410	41.43	0	-						-			
9	1,2,3,4,7,8,9-HpCDF	408	-	0	-	0	-0.110607		-0.001	-0.110607	-		1.177018	-
		410	42.71	0	-						-			
10	OCDF	442	-	0	-	0	-0.121244		0.000	-0.121244	-		1.239902	-
		444	45.41	0	-						-			
11	2,3,7,8-TCDD	320	-	0	-	0	-0.109271		-0.100	-0.109271	-		1.240957	-
		322	25.73	0	-						-			
12	1,2,3,7,8-PeCDD	356	-	0	-	0	-0.112513		-0.056	-0.112513	-		1.116262	-
		358	34.31	0	-						-			
13	1,2,3,4,7,8-HxCDD	390	-	0	-	0	-0.116678		-0.012	-0.116678	-		1.111453	-
		392	39.05	0	-						-			
14	1,2,3,6,7,8-HxCDD	390	-	0	-	0	-0.115824		-0.012	-0.115824	-		1.119648	-
		392	39.17	0	-						-			
15	1,2,3,7,8,9-HxCDD	390	39.54	978	1.44	1656	-0.11606		-0.012	-0.116058	*		1.117872	-
		392	39.50	678	no						*			
16	1,2,3,4,6,7,8-HpCDD	424	42.42	6823	0.98	13807	1.309942		0.013	-0.112921	32		1.084762	-
		426	42.36	6984	yes						33			
17	OCDD	458	45.36	38109	0.94	78498	12.71755		0.013	-0.112929	276		1.054514	-
		460	45.29	40399	yes						270			
18	13C-2,3,7,8-TCDF	316	24.60	2624332	0.79	5938273	1361.864			0.606	5798		2.144584	68
		318	24.57	3313941	yes						8152			
19	13C-1,2,3,7,8-PeCDF	352	31.96	2647239	1.57	4330299	1350.206			0.905	4019		1.577374	68
		354	31.89	1683060	yes						2452			
20	13C-2,3,4,7,8-PeCDF	352	33.62	2969348	1.57	4859074	1557.567			0.981	5872		1.534847	78
		354	33.57	1889727	yes						3638			
21	13C-1,2,3,4,7,8-HxCDF	384	38.11	1235424	0.52	3595468	1292.475			1.377	2074		1.352773	65
		386	38.09	2360044	yes						3506			
22	13C-1,2,3,6,7,8-HxCDF	384	38.23	1405029	0.52	4087150	1364.469			1.279	2109		1.435092	68
		386	38.20	2682121	yes						3572			
23	13C-2,3,4,6,7,8-HxCDF	384	38.91	1353710	0.52	3938601	1409.883			1.371	2182		1.338887	70
		386	38.87	2584891	yes						3700			
24	13C-1,2,3,7,8,9-HxCDF	384	39.74	1207584	0.53	3476443	1331.34			1.467	1076		1.251033	67
		386	39.69	2268859	yes						3310			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.46	791156	0.45	2546755	963.503			1.033	2208		1.266359	48
		420	41.41	1755600	yes						3868			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.75	793258	0.48	2430903	1095.339			1.23	1925		1.063266	55
		420	42.71	1637645	yes						3402			
27	13C-2,3,7,8-TCDD	332	25.67	1484663	0.81	3317339	1407.693			0.817	3693		1.159041	70
		334	25.70	1832676	yes						7039			
28	13C-1,2,3,7,8-PeCDD	368	34.34	1682390	1.64	2708040	1621.222			0.774	7237		0.821541	81
		370	34.29	1025650	yes						5392			
29	13C-1,2,3,4,7,8-HxCDD	402	39.09	1446984	1.28	2574152	1353.994			1.364	5444		0.910836	68
		404	39.06	1127168	yes						2179			
30	13C-1,2,3,6,7,8-HxCDD	402	39.19	1620589	1.29	2881199	1450.348			1.305	5433		0.951752	73
		404	39.15	1260610	yes						2152			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.40	1054945	1.19	1942514	988.436			1.05	3738		0.941539	49
		438	42.36	887569	yes						2354			
32	13C-OCDD	470	45.35	1064238	0.83	2340509	1486.023			0.572	6105		0.754584	37
		472	45.29	1276271	yes						7168			
33	13C-1,2,3,4-TCDD	332	25.37	1833942	0.82	4066429	87.729			0.042	4684		46352.42	4
		334	25.34	2233088	yes						8889			
34	13C-1,2,3,7,8,9-HxCDD	402	39.53	2354200	1.29	4174526	78.529			0.049	8105		53139.29	4
		404	39.49	1820326	yes						3260			
35	13C-2,3,7,8-TCDD	328	25.69	440428	1	880857	172.06			0.173	2935		2.517916	86
		328	25.62	440428	yes						2935			
36	Totals Tetra-Furans	304	-	0	-	0	-0.129856		0	-0.129856	-		0.97161	-
		306	26.00	0	-						-			
37	Totals Tetra-Dioxins	320	-	0	-	0	0.358574		1	-0.109271	-		1.240957	-
		322	26.00	0	-						-			
38	Totals Penta-Furans	340	-	0	-	0	-0.106194		0	-0.106194	-		1.034611	-
											-			

		342	34.00	0	-				-		
39	Totals Penta-Dioxins	356	-	0	-	0	-0.112513	0	-0.112513	-	1.116262
		358	34.00	0	-				-		
40	Totals Hexa-Furans	374	-	0	-	0	-0.054186	0	-0.054186	-	1.132007
		376	39.50	0	-				-		
41	Totals Hexa-Dioxins	390	-	0	-	0	0.773199	2	-0.117021	-	1.108192
		392	39.50	0	-				-		
42	Totals Hepta-Furans	408	-	0	-	0	-0.109153	0	-0.109153	-	1.192692
		410	42.50	0	-				-		
43	Totals Hepta-Dioxins	424	-	0	-	0	3.285431	2	-0.112321	-	1.084762
		426	42.50	0	-				-		

Totals Compound 36: Totals Tetra-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
36	Totals Tetra-Furans	304	21.89	496	0.79	1125	0.038986	1		0.97161	-
		306	26.00	630	no			1			
36	Totals Tetra-Furans	304	25.39	1046	1.48	1754	0.060779	2		0.97161	-
		306	26.00	708	no			1			

Totals Compound 37: Totals Tetra-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
37	Totals Tetra-Dioxins	320	22.90	333	0.66	839	0.040786	1		1.240957	-
		322	26.00	506	no			1			
37	Totals Tetra-Dioxins	320	23.23	388	0.61	1026	0.049883	1		1.240957	-
		322	26.00	638	no			2			
37	Totals Tetra-Dioxins	320	24.00	3138	0.74	7883	0.358874	8		1.240957	-
		322	26.00	4245	yes			10			
37	Totals Tetra-Dioxins	320	24.60	1589	3.86	2001	0.097166	5		1.240957	-
		322	26.00	412	no			1			

Totals Compound 38: Totals Penta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.53	4434	1.24	8004	0.526473	10		1.108192	-
		392	39.50	3571	yes			10			
41	Totals Hexa-Dioxins	390	38.11	-1750.88	1.24	-3162.88	-0.20804	10	XL	1.108192	-
		392	39.50	-1412	OK			3			
41	Totals Hexa-Dioxins	390	38.23	-1288.36	1.24	-2327.36	-0.15309	10	XL	1.108192	-
		392	39.50	-1039	OK			3			
41	Totals Hexa-Dioxins	390	38.44	2106	1.28	3751	0.246727	5		1.108192	-
		392	39.50	1645	yes			5			
41	Totals Hexa-Dioxins	390	38.90	-2170	1.24	-3920	-0.25784	25	XL	1.108192	-
		392	39.50	-1750	OK			6			
15	1,2,3,7,8-HxCDD	390	39.54	978	1.44	1656	0.10803	2		1.093474	-
		392	39.50	678	no			2			
41	Totals Hexa-Dioxins	390	39.74	-1396.24	1.24	-2522.24	-0.1659	10	XL	1.108192	-
		392	39.50	-1126	OK			4			

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
43	Totals Hepta-Dioxins	424	41.46	9010	3.48	11599	1.109999	45		1.084762	-
		426	42.50	2589	no			15			
43	Totals Hepta-Dioxins	424	41.77	10660	1.07	20643	1.97549	53		1.084762	-
		426	42.50	9984	yes			49			
16	1,2,3,4,6,7,8-HpCDD	424	42.42	6823	0.98	13807	1.309942	32		1.084762	-
		426	42.36	6984	yes			33			
43	Totals Hepta-Dioxins	424	42.75	9380	3.49	12042	1.152393	41		1.084762	-
		426	42.50	2682	no			12			

Quantify Sample Report

Sample list: C:\MSSTYX\Default-pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTYX\Default-pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

36: Totals Tetra-Furans

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

Autospec Ultima - M536

11-Dec-2021

01:24:55

M3211210A08 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

100

303.9016

%

1.31e4

Area

1.62e3

M3211210A08 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

100

305.8987

%

1.01e4

Area

2.11e3

M3211210A08 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

100

315.9419

%

3.12e7

M3211210A08 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

100

317.9389

%

3.99e7

21.00 22.00 23.00 24.00 25.00 26.00 27.00 Time

Quantity Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSDCHEM\Default-pro\METHOD\M3211210A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
Text: REZ812-01R

37: Totals Tetra-dioxins

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

M3211210A08 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

01:24:55

1: Voltage SIF 11 Channels EI+

319.8965

3.87e4

Area:

9.74e4

M3211210A08 Sm (SG, 2x2)

24.01

4245

24.59

412

1: Voltage SIF 11 Channels EI+

321.8936

5.55e4

Area:

1.25e5

M3211210A08 Sm (SG, 2x2)

22.90 23.25

506 638

25.37

25.67

1: Voltage SIF 11 Channels EI+

331.9368

2.13e7

M3211210A08 Sm (SG, 2x2)

25.37

25.67

1: Voltage SIF 11 Channels EI+

333.9339

2.59e7

Time

Quantity Sample Report

Sample List: C:\MASSLINK\Default-pro\SAMPLES\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSLINK\Default-pro\METHODS\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
Text: REZ812-01R

35: C137-2,3,7,8-TCDD

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

AutoSpec Ultima - M536

11-Dec-2021

01:24:56

M3211210A08 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

Retention Time (min)	Area
25.69	327.8850
440428	5.05e6

M3211210A08 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

Retention Time (min)	Area
25.69	327.8850
440428	5.05e6

M3211210A08 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

Retention Time (min)	Area
25.37	331.9368
1833342	2.13e7

M3211210A08 Sm (SG, 2x2)

1: Voltage SIF 11 Channels EI+

Retention Time (min)	Area
25.37	333.9339
2233088	2.59e7

Time

Quantity Sample Report

Sample List: C:\MASSVIEW\Default.pro\SAMPLEDB\M3211210A_1613
Last Modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSVIEW\Default.pro\METHOD\M321127A_HC_1613
Last Modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
Text: REZ812-01R

38: Hexa DPE

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

M3211210A08 Sm (SG, 2X2)

AutoSpec Ultima - M536

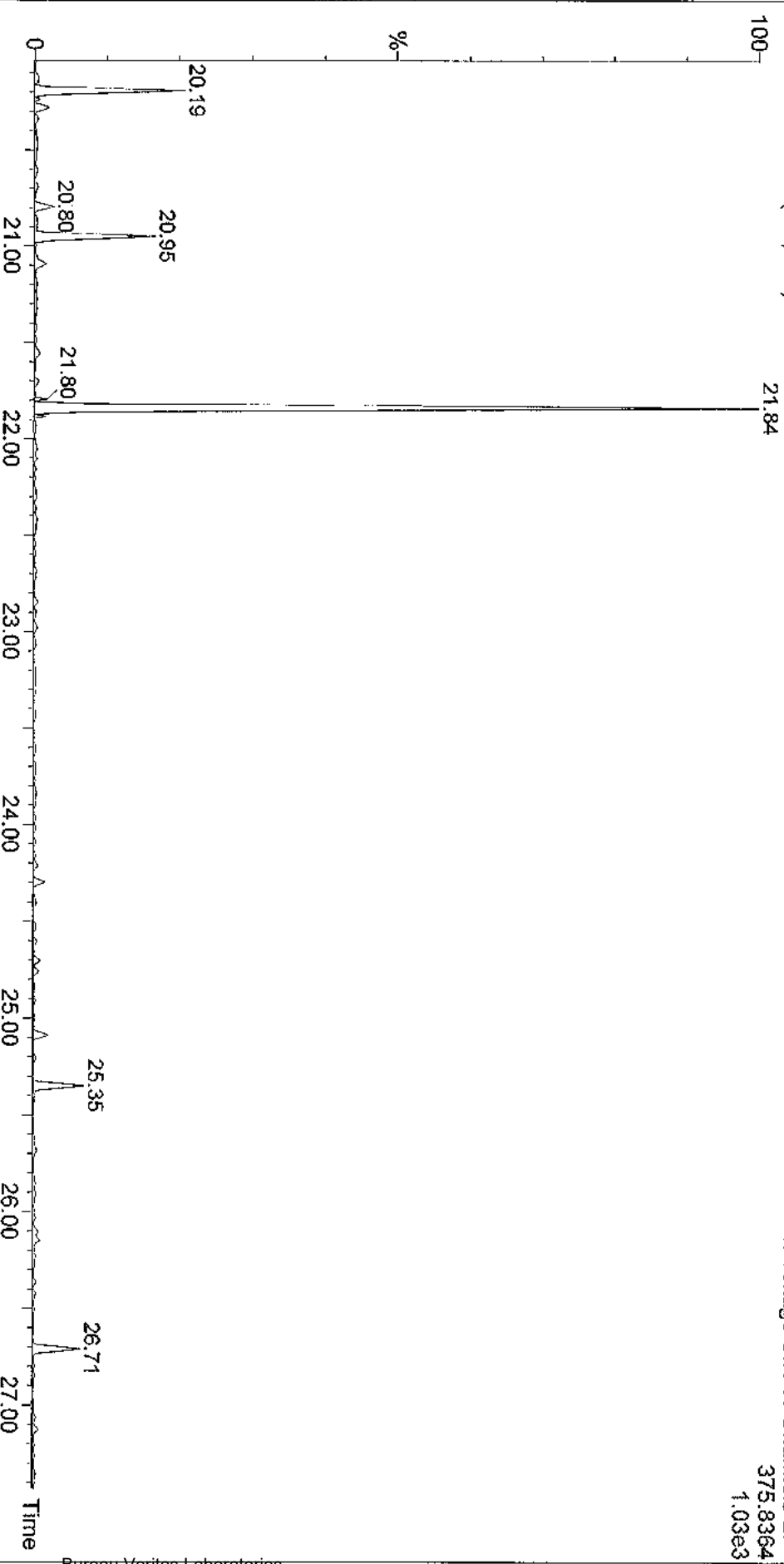
11-Dec-2021

01:24:55

1: Voltage S/R 11 Channels EI+

375.8364

1.03e3



Quantify Sample Report

Sample List: C:\MASSIVE\Default-pro\SMLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSIVE\Default-pro\METHOD\M321127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
Text: REZ812-01R

39: Function 1 Lockmass

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

M3211210A08 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

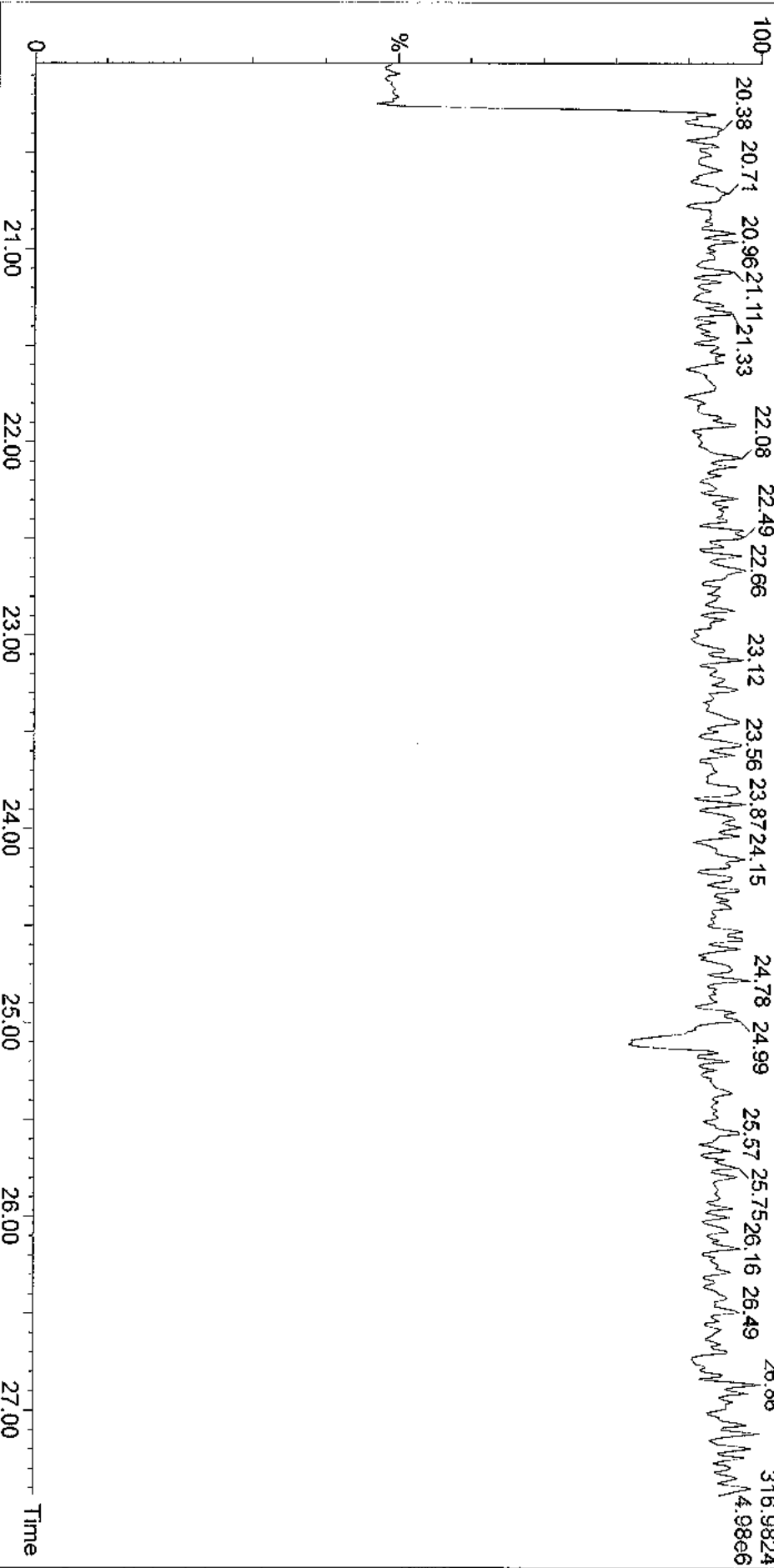
01:24:55

1: Voltage SIF 11 Channels El+

26.86

316.9824

4.98e6



Quantity Sample Report

Sample List: C:\MASSLINT\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLINT\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: RE2612-01R

40: Totals Penta-Furans

RE2612-01R

7716247: APEX_PDI-CORE-103-B-0*, S

AutoSpec Ultima - M536

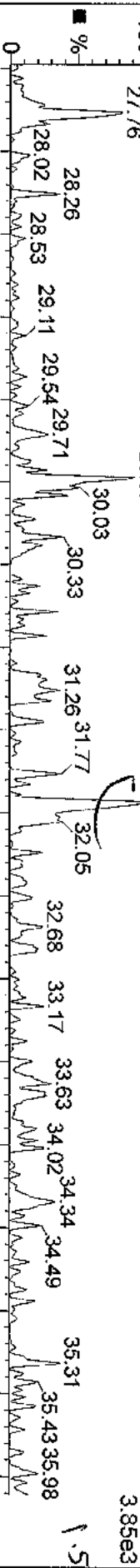
11-Dec-2021

01:24:55

M3211210A08 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

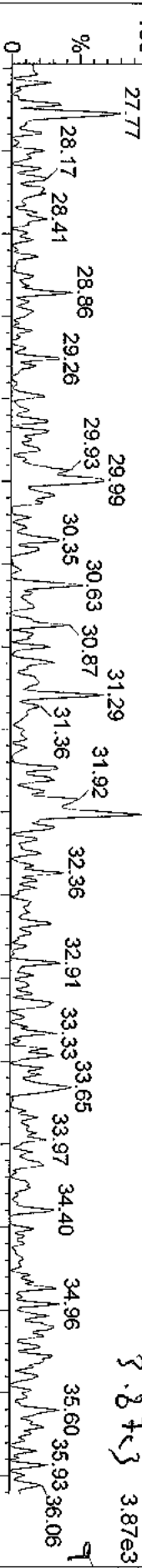
339.8597 3.85e3



M3211210A08 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

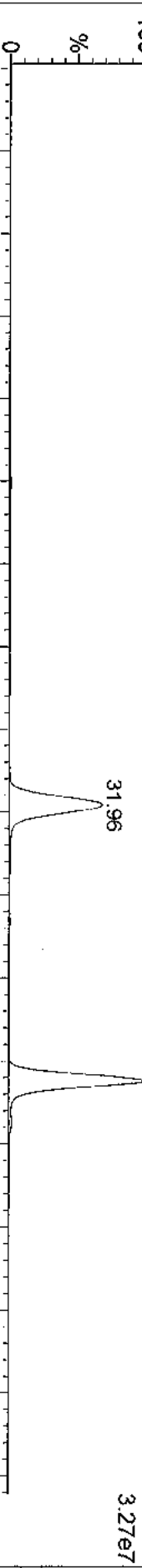
341.8568 3.87e3



M3211210A08 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

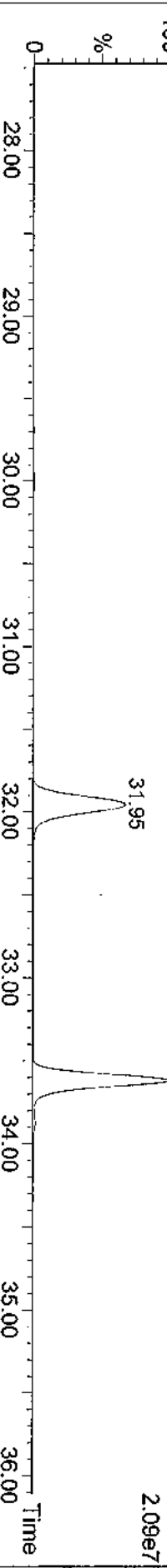
351.9000 3.27e7



M3211210A08 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

353.8970 2.09e7



Quantify Sample Report

Sample List: C:\MSDCHEM\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default-pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

41: Totals Penta-Dioxins

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

AutoSpec Ultima - M536

11-Dec-2021

01:24:55

M3211210A08 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

355.8546

2.23e4

1.63

M3211210A08 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

357.8517

5.37e3

%

M3211210A08 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

367.8949

2.00e7

%

M3211210A08 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

369.8919

1.22e7

%

Time

Quantity Sample Report

Sample List: C:\MASSLINK\Default-pro\SMFLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLINK\Default-pro\METHOD\M3211217A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

42: Hepta DP2

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

M3211210A08 Sm (SG, 2x2)

AutoSpec Ultima - M536

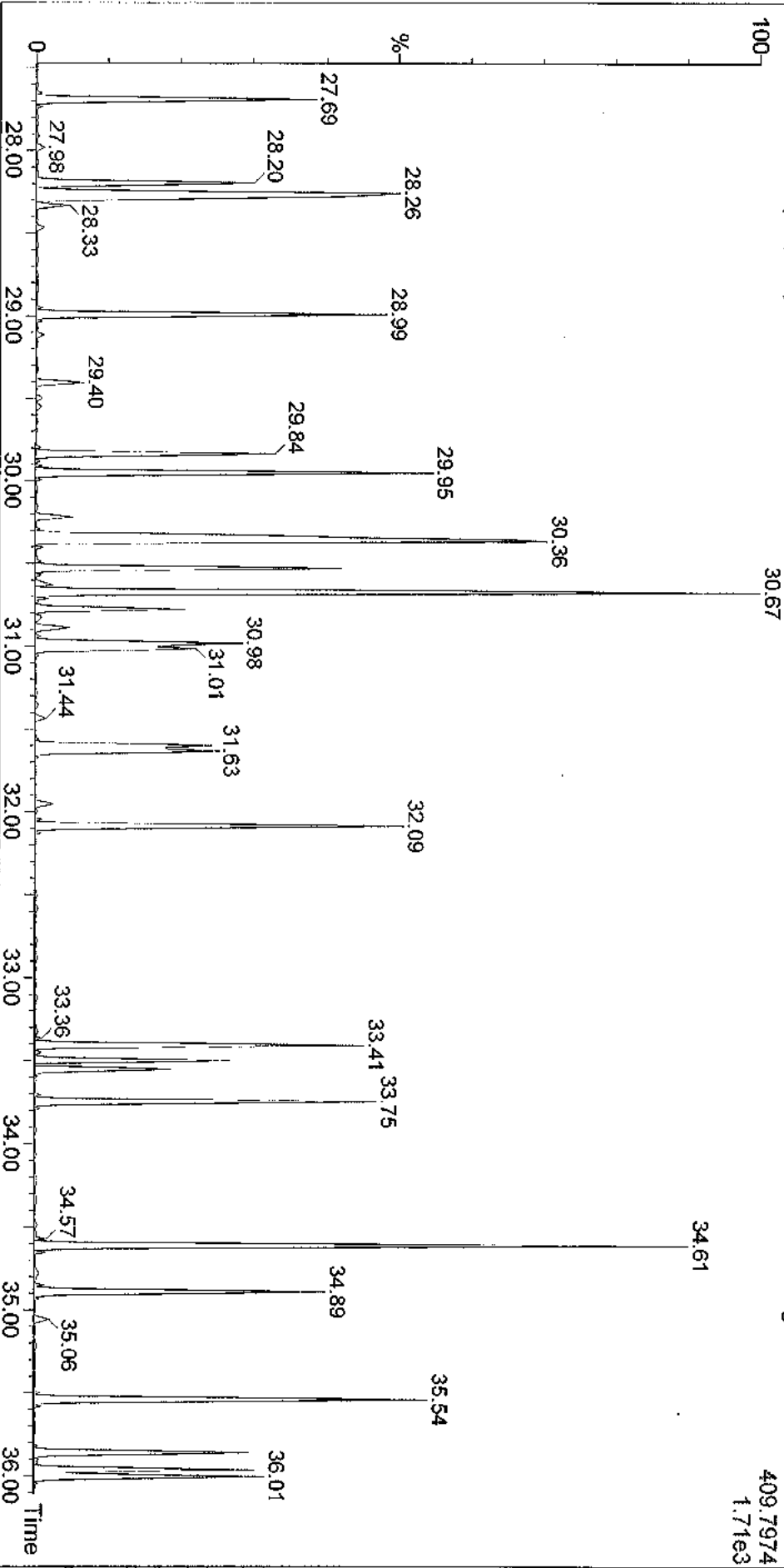
11-Dec-2021

01:24:55

2: Voltage SIF 10 Channels EI+

409.7974

1.71e3



Quantify Sample Report

Sample list: C:\MSSTV\X\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSSTV\X\Default.pro\METHODS\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
Text: RE2812-01R

43: Function 2 Lockmass

RE2812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

M3211210A08 Sm (SG, 2x2)

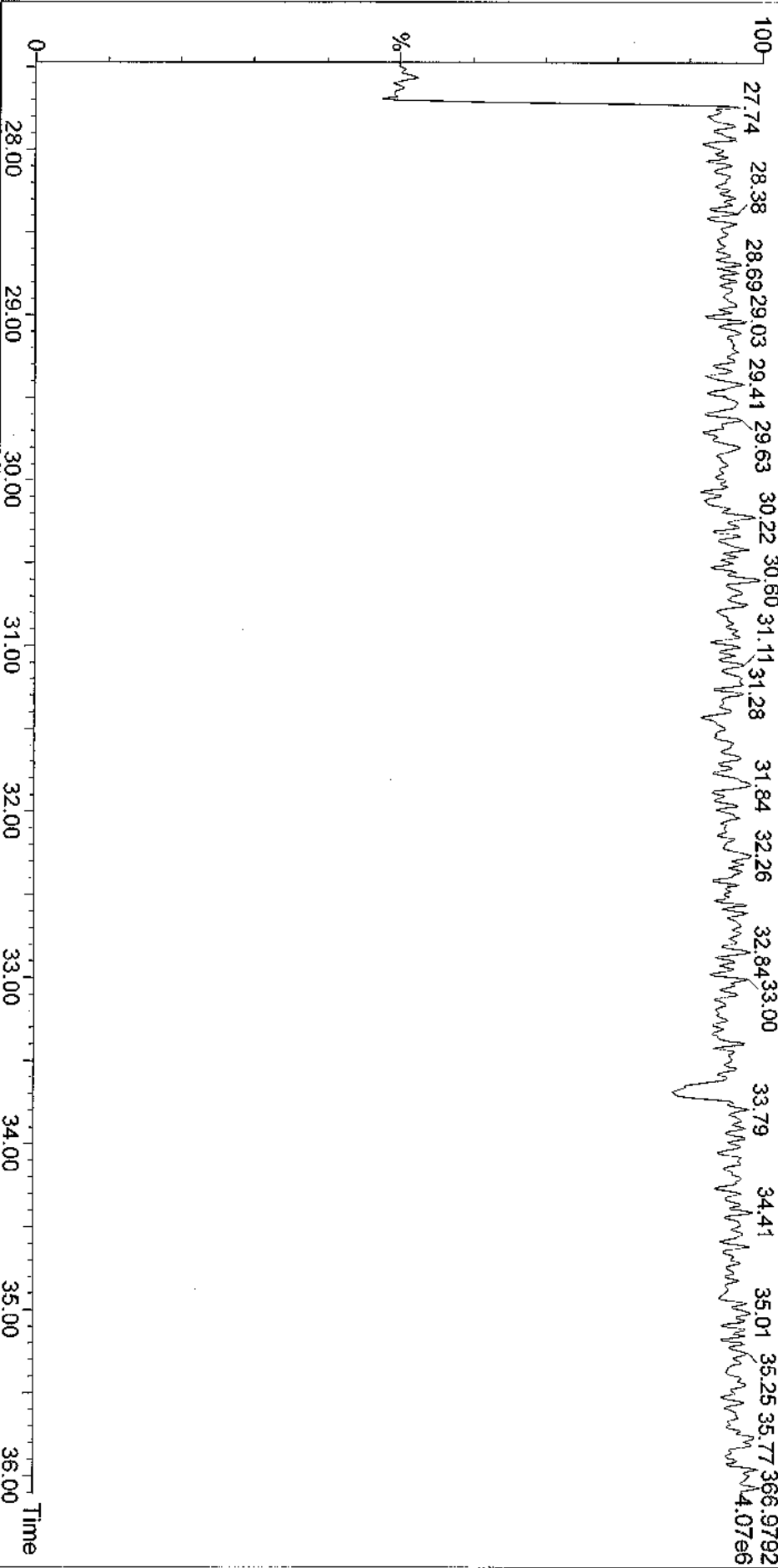
AutoSpec Ultima - M536

11-Dec-2021

01:24:55

100 27.74 28.38 28.69 29.03 29.41 29.63 30.22 30.60 31.11 31.28 31.84 32.26 32.84 33.00 33.79 34.41 35.01 35.25 35.77 366.9792 4.07e6

2: Voltage SIR 10 Channels EI+



Quantity Sample Report

Sample list: C:\MASSVIEW\Default-Pro\SAFELEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default-Pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

44: Totals Hexa-Furans

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

AutoSpec Ultima - M536

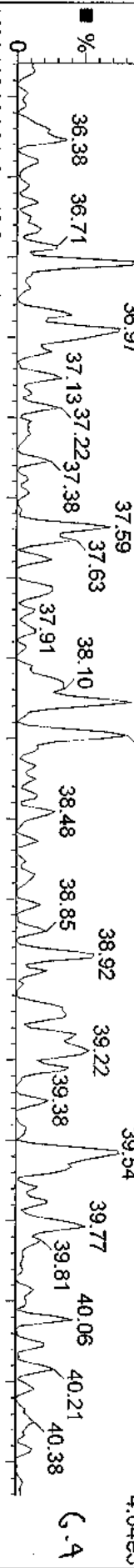
11-Dec-2021

01:24:55

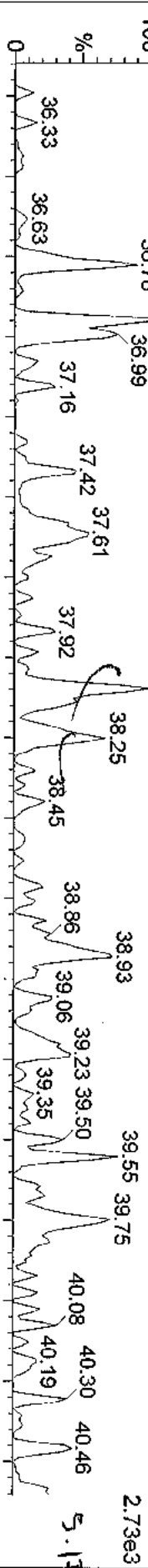
M3211210A08 Sm (SG, 2x2)

3: Voltage SIF 10 Channels EI+

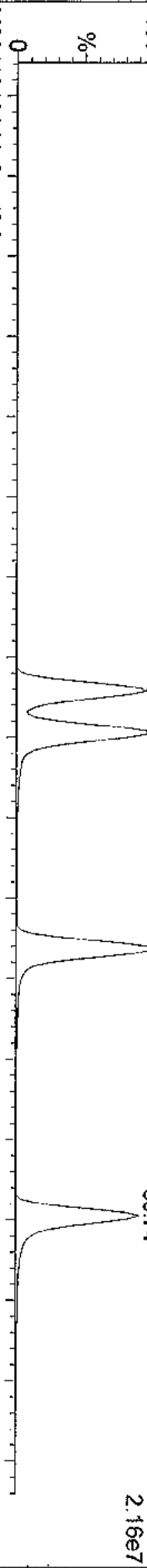
373.8207 4.04e3



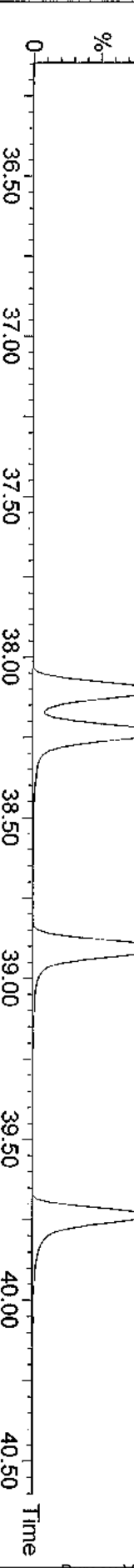
375.8178 2.73e3



383.8639 2.16e7



385.8610 4.14e7



Quantify Sample Report

Sample List: C:\MSSTVX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTVX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

45: Totals Hexa-Dioxins

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

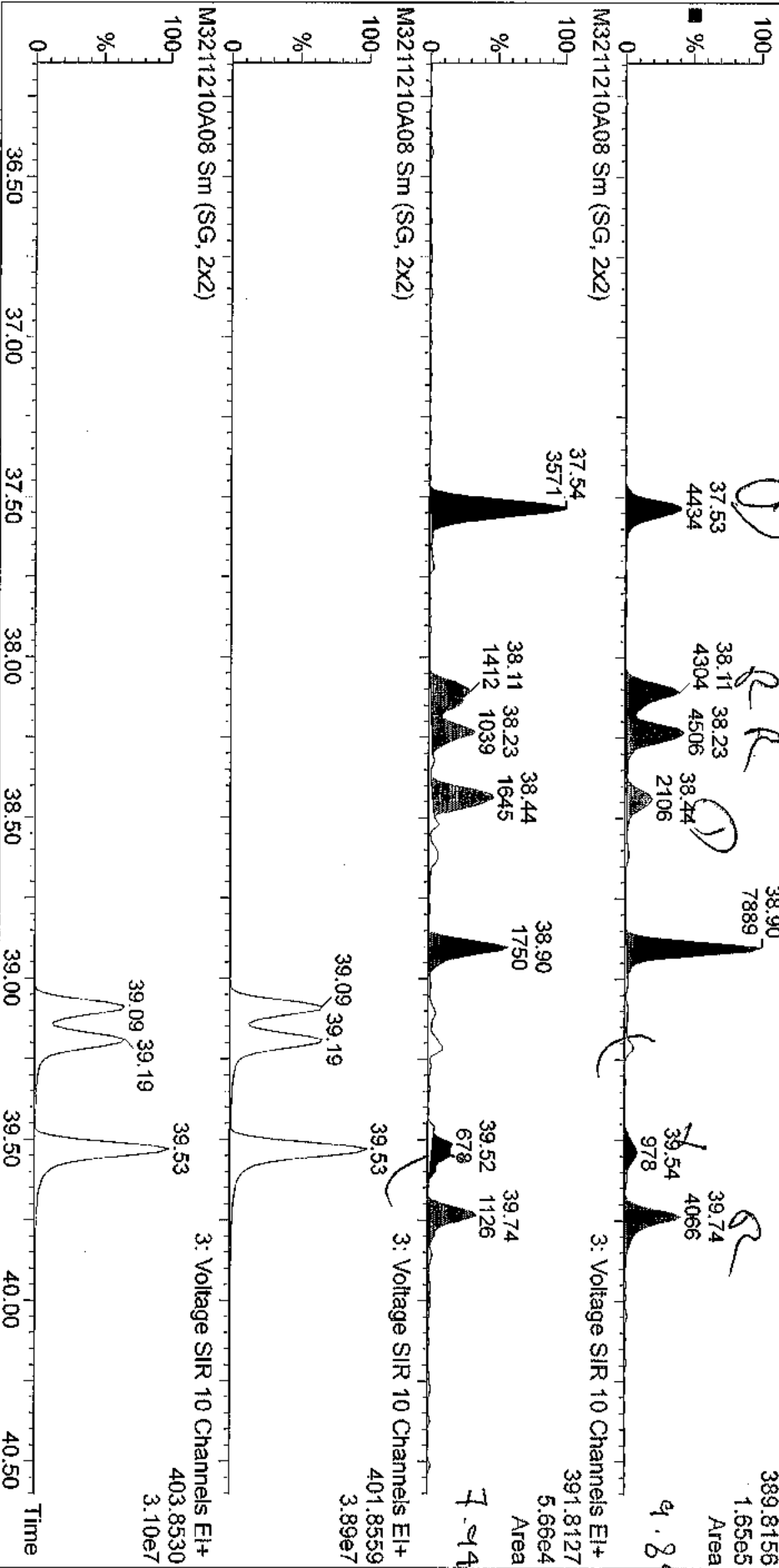
M3211210A08 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

01:24:55

6.65e3



Quantity Sample Report

Sample List: C:\MSSTYX\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTYX\Default-pro\METHODS\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

45: Octa DPE

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S
 M3211210A08 Sm (SG, 2x2)

AutoSpec Ultima - M536

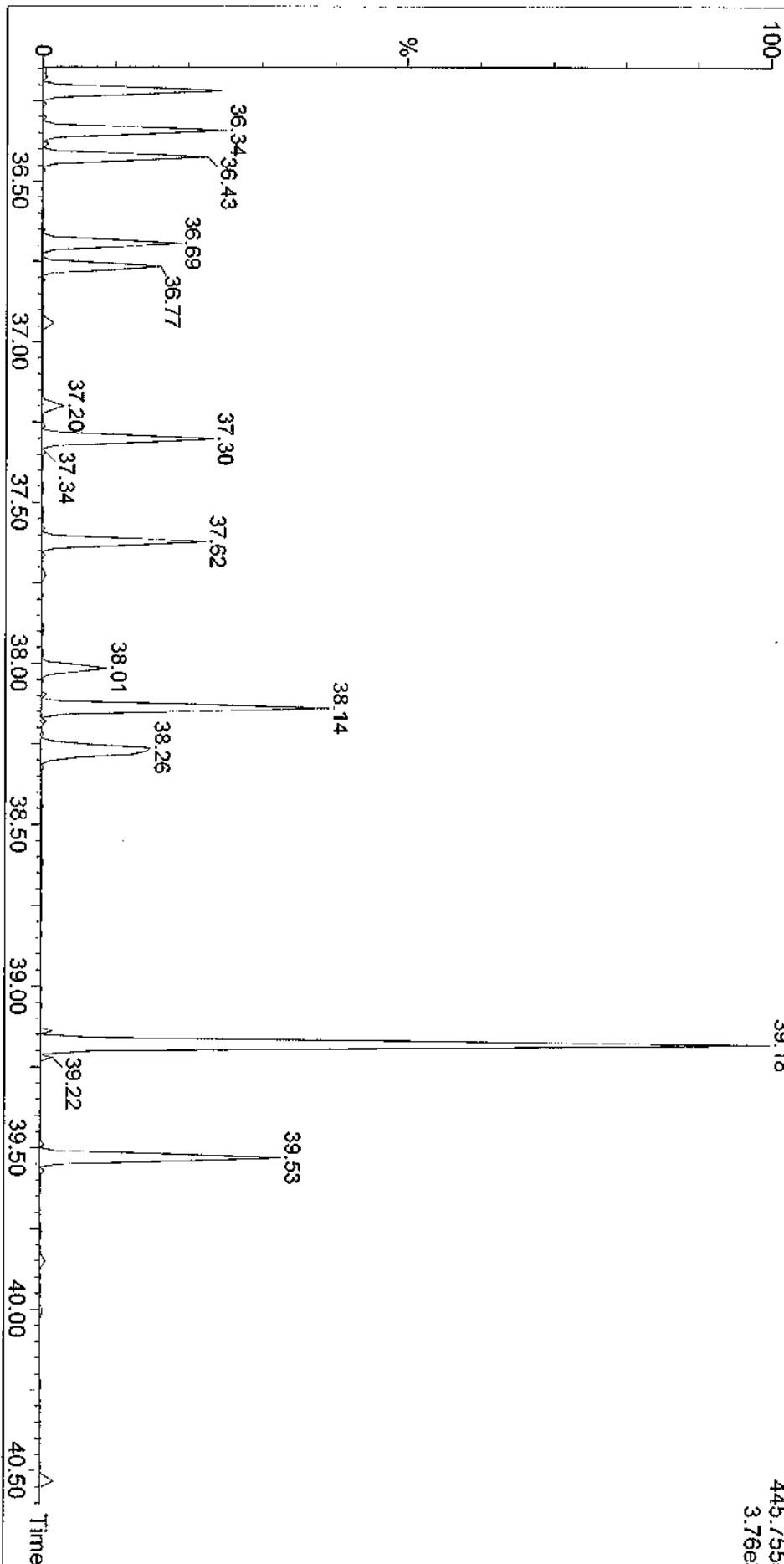
11-Dec-2021

01:24:55

3: Voltage SIR 10 Channels EI+

445.7555

3.76e3



Quantity Sample Report

Sample List: C:\MASSIVE\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSIVE\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

47: Function 3 Lockmass

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

M3211210A08 Sm (SG, 2x2)

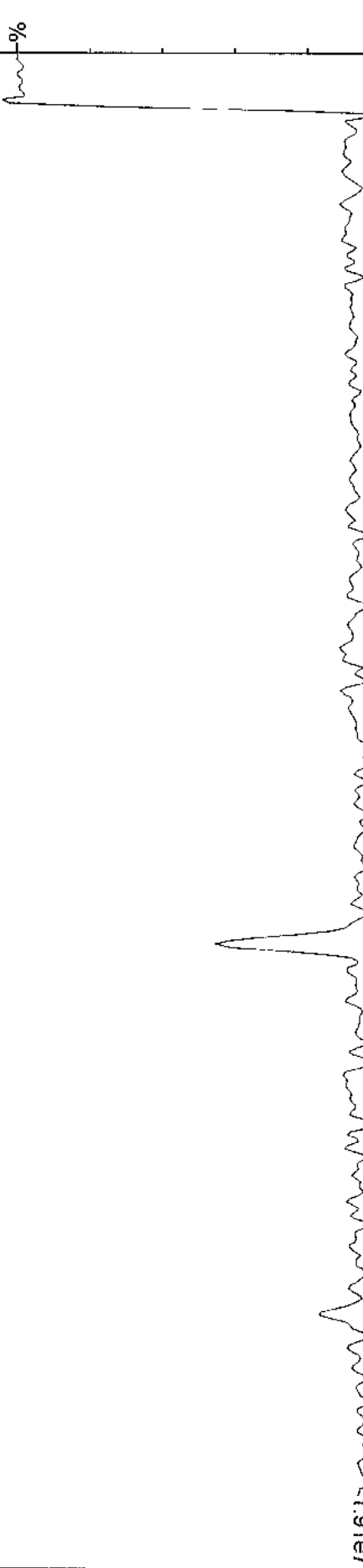
AutoSpec Ultima - M536

11-Dec-2021

01:24:55

3: Voltage SIF 10 Channels EI+

100 36.34 37.63 38.09 38.29 39.26 39.46 39.77 40.11 380.9760 1.91e7



Quantify Sample Report

Sample List: C:\MASSLYNX\Default-Pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default-Pro\METHODS\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

48: Totals Hepta-Furans

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

AutoSpec Ultima - M536

11-Dec-2021

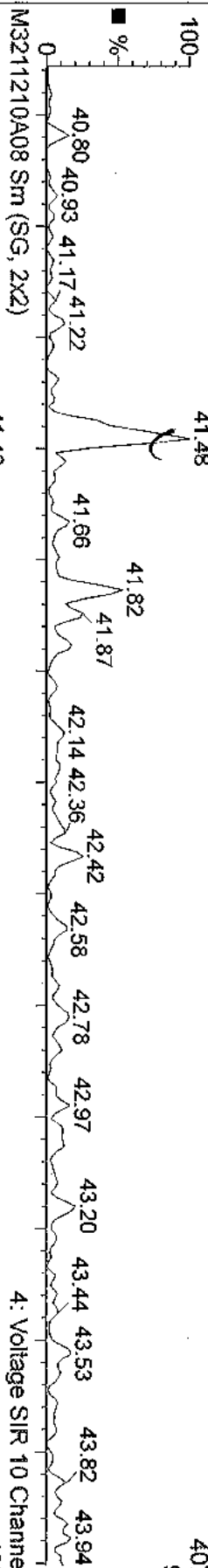
01:24:56

M3211210A08 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+

407.7818
 9.23e3

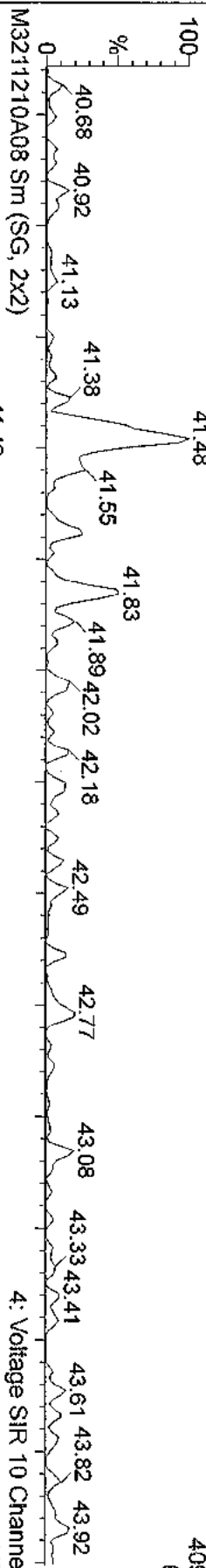
8.27e2



4: Voltage SIF 10 Channels EI+

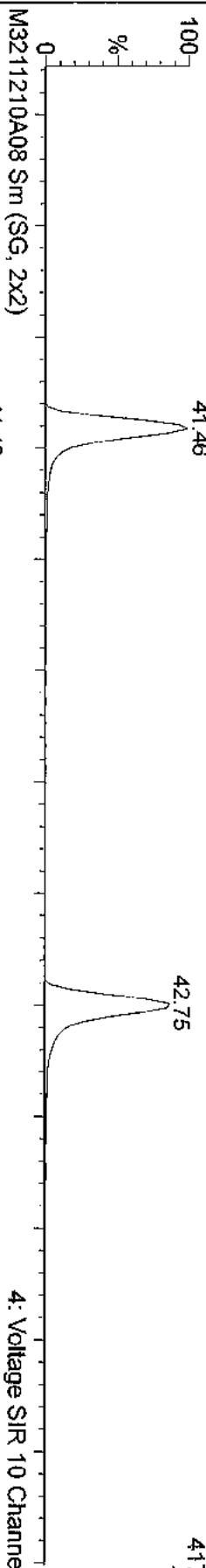
409.7788
 6.48e3

7.95e2



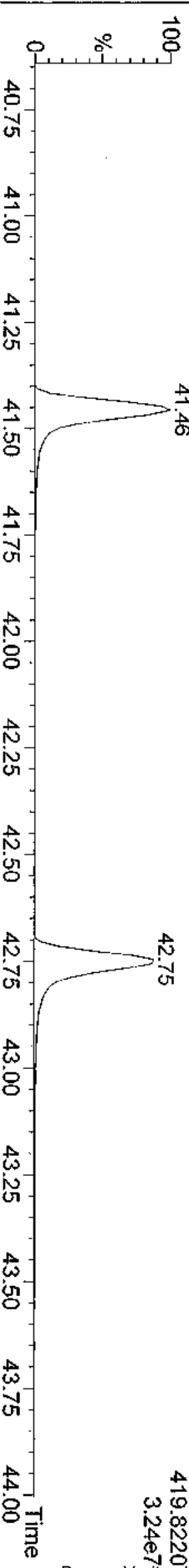
4: Voltage SIF 10 Channels EI+

417.8253
 1.46e7



4: Voltage SIF 10 Channels EI+

419.8220
 3.24e7



Quantity Sample Report

Sample List: C:\MASSVIEW\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: RE2812-01R

49: Totals Hepta-Dioxins

RE2812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

AutoSpec Ultima - M536

11-Dec-2021

01:24:55

M3211210A08 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.46 9010

42.75 9360

423.7767

41.77 10660

42.42 6823

2.05e5

41.45 2589

42.41 6984

Area

41.76 9984

42.75 2682

5.49

M3211210A08 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.45 2589

42.41 6984

425.7737

41.76 9984

42.75 2682

1.80e5

41.45 2589

42.41 6984

Area

41.76 9984

42.75 2682

5.75

M3211210A08 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.45 2589

42.41 6984

435.8169

41.76 9984

42.75 2682

1.69e7

M3211210A08 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.45 2589

42.41 6984

437.8140

41.76 9984

42.75 2682

1.60e7

M3211210A08 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.45 2589

42.41 6984

437.8140

41.76 9984

42.75 2682

1.60e7

M3211210A08 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.45 2589

42.41 6984

437.8140

41.76 9984

42.75 2682

1.60e7

M3211210A08 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.45 2589

42.41 6984

437.8140

41.76 9984

42.75 2682

1.60e7

Time

Quantity Sample Report

Sample List: C:\MASSVIEWX\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEWX\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: RMZ812-01R

50: Nona.DYE

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S
 M3211210A08 Sm (SG, 2X2)

AutoSpec Ultima - M536

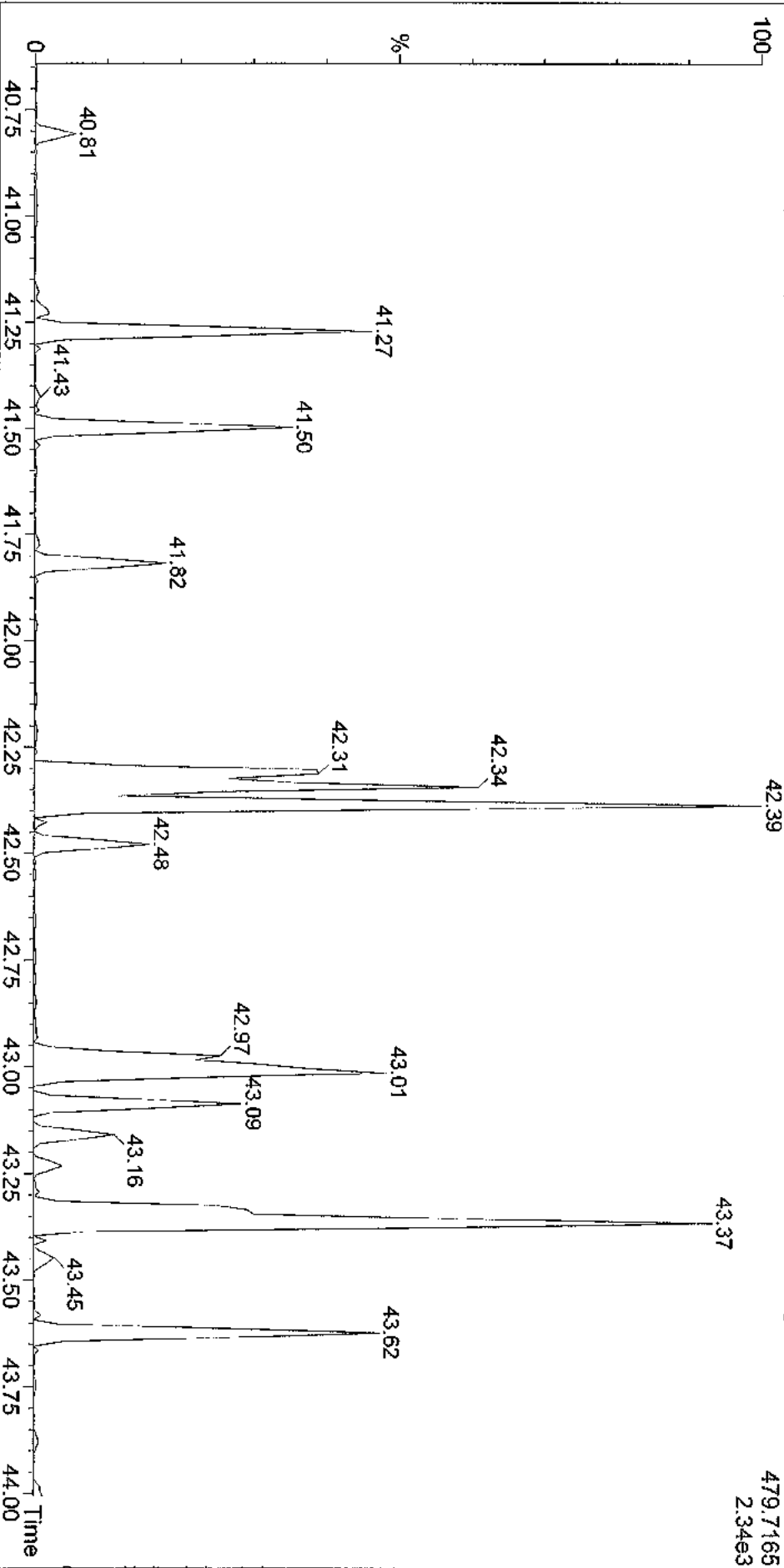
11-Dec-2021

01:24:55

4: Voltage SIR 10 Channels EI+

479.7165

2.34e3



Quantity Sample Report

Sample List: C:\MASSIVE\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSIVE\Default.pro\METHOD\M321127A_HC_1613
Test modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
Text: REZ812-01R

S1: Function 4 Lockmass

REZ812-01R

AutoSpec Ultima - M536

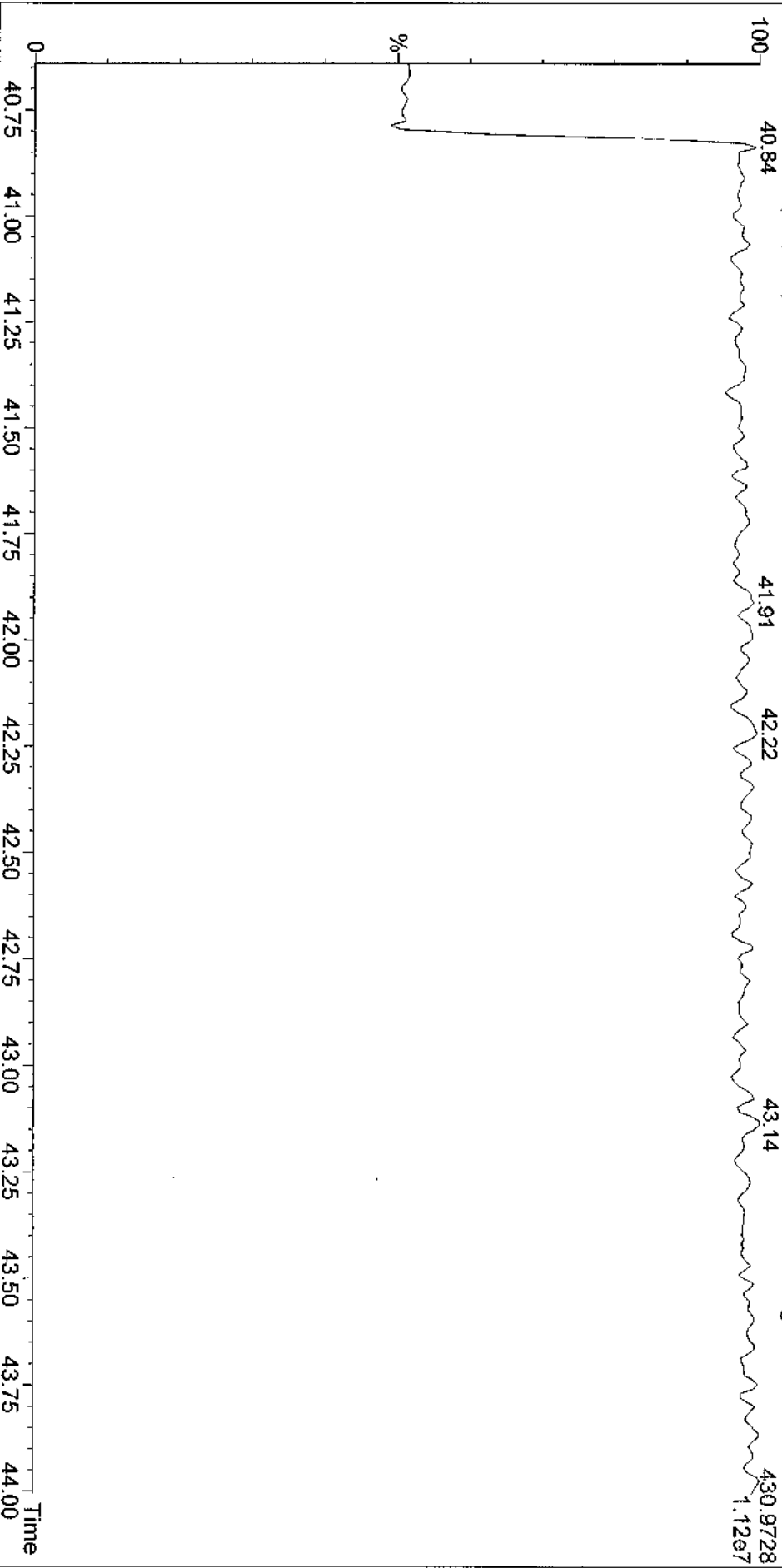
11-Dec-2021

7716247: APEX_PDI-CORE-103-B-0*, S

01:24:55

M3211210A08 Sm (SG, 2X2)

4: Voltage S/R 10 Channels EI+



Quantify Sample Report

Sample List: C:\MSSTVXK\Default.pro\SAFLEDE\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTVXK\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: RE2812-01R

Handwritten signature

2.423

10: ODP

RE2812-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-103-B-0*, S

01:24:55

M3211210A08 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



M3211210A08 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



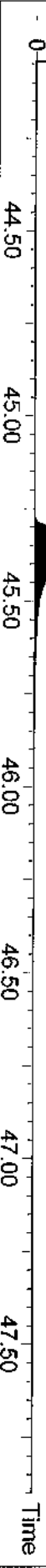
M3211210A08 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



M3211210A08 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+



Quantify Sample Report

Sample List: C:\MASSVIEW\Default-pro\SMFLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M3211217A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: RM2612-01R

17: OCEID

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

AutoSpec Ultima - M536

11-Dec-2021

01:24:55

M3211210A08 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.36 457.7377
 38109 5.25e5
 Area

M3211210A08 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.36 459.7348
 40389 5.82e5
 Area

M3211210A08 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.35 469.7780
 1064238 1.56e7
 Area

M3211210A08 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.35 471.7750
 1276271 1.71e7
 Area

Time

Quantify Sample Report

Sample List: C:\MSST\INX\Default-pro\SMFLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSST\INX\Default-pro\METHOD\M3211210A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
Text: RE2812-01R

S2: Decca DPE

RE2812-01R

7716247: APEX_PDI-CORE-103-B-0*, S
M3211210A08 Sm (SG, 2x2)

AutoSpec Ultima - M536

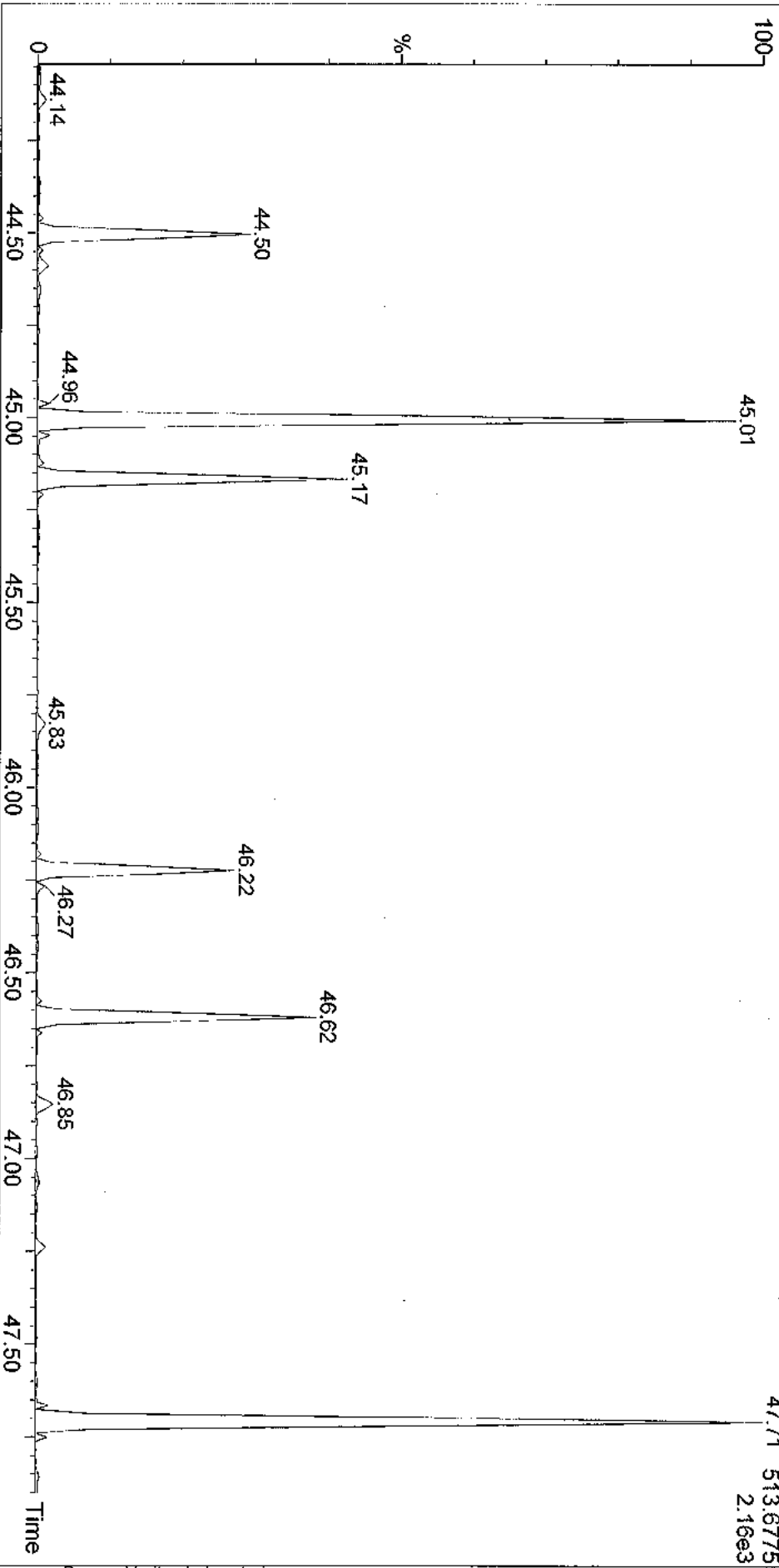
11-Dec-2021

01:24:55

5: Voltage S/R 8 Channels EI+

47.71 513.6775

2.16e3



Quantity Sample Report

Sample List: C:\MASSVIEW\Default-pro\SAMELEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default-pro\METHOD\M3211217A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A08
 Text: REZ812-01R

S3: Function 5 Lockmass

REZ812-01R

7716247: APEX_PDI-CORE-103-B-0*, S

M3211210A08 Sm (SG, 2X2)

AutoSpec Ultima - M536

11-Dec-2021

01:24:55

5: Voltage SFR 8 Channels EI+

44.10 44.28 44.98 45.66 47.02 454.9728 9.60e6



File# M3211210A09
Sample
Acq'd 2024/11/12 2:16
Sampl RE2817-01R
Com RE2817-01R
Sampl 20.0004

Run
II File 1127A_1613_5pt
7716247: APEX_PDI-CORE-04-B-05", S

#1 Fac 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	Code	TEF	LOD(pg)	S/N	Mod.User	RRF Mean	%Rec
1	2,3,7,8-TCDF	304	24.65	14559	0.79	32922	0.926504		0.093	0.374 Max TE	16		0.97161	-
		306	24.57	18362	yes						15			
2	1,2,3,7,8-PeCDF	340	32.01	15433	1.62	24941	0.945897		0.047	-0.126863	15		0.979466	-
		342	31.93	9509	yes						15			
3	2,3,4,7,8-PeCDF	340	33.66	11044	1.46	18586	0.565019		0.283	-0.114023	14		1.089756	-
		342	33.58	7542	yes						15			
4	1,2,3,4,7,8-HxCDF	374	38.13	38836	1.26	69756	2.520593		0.252	-0.115071	53		1.159483	-
		376	38.11	30920	yes						53			
5	1,2,3,6,7,8-HxCDF	374	38.26	16453	1.31	29023	0.973289		0.097	-0.121886	22		1.094648	-
		376	38.25	12570	yes						21			
6	2,3,4,6,7,8-HxCDF	374	38.93	6870	1.31	12099	0.416467		0.042	-0.113399	10		1.176583	-
		376	38.89	5229	yes						10			
7	1,2,3,7,8,9-HxCDF	374	39.77	731	1.04	1434	-0.12189		-0.012	-0.12159	*		1.097314	-
		376	39.70	703	no						*			
8	1,2,3,4,6,7,8-HpCDF	408	41.47	191448	1.05	374236	15.12094		0.161	-0.151502	281		1.208367	-
		410	41.43	182789	yes						284			
9	1,2,3,4,7,8,9-HpCDF	408	42.77	9452	1.05	18465	0.858425		0.009	-0.155537	13		1.177018	-
		410	42.71	9013	yes						13			
10	OCDF	442	45.48	227809	0.95	467630	36.02027		0.036	-0.120187	804		1.239902	-
		444	45.41	239821	yes						809			
11	2,3,7,8-TCDD	320	25.71	1058	0.45	3395	-0.150671		-0.151	-0.150671	*		1.240957	-
		322	25.73	2337	no						*			
12	1,2,3,7,8-PeCDD	356	34.39	3838	1.55	6316	0.318798		0.159	-0.135206	6		1.116262	-
		358	34.31	2478	yes						6			
13	1,2,3,4,7,8-HxCDD	390	39.12	4919	1.38	8473	0.417466		0.042	-0.12215	9		1.111453	-
		392	39.05	3554	yes						8			
14	1,2,3,6,7,8-HxCDD	390	39.22	23420	1.36	40683	1.776831		0.178	-0.121256	44		1.119648	-
		392	39.17	17263	yes						39			
15	1,2,3,7,8,9-HxCDD	390	39.55	14504	1.2	26552	1.228744	ERGED PEA	0.123	-0.121503	20		1.117372	-
		392	39.50	12048	yes						22			
16	1,2,3,4,6,7,8-HpCDD	424	42.42	351058	1.15	656858	39.85465		0.399	-0.121357	848		1.084762	-
		426	42.36	305800	yes						824			
17	OCDD	458	45.37	2372757	0.9	5012456	453.9731		0.454	-0.122705	9558		1.054514	-
		460	45.29	2639699	yes						9395			
18	13C-2,3,7,8-TCDF	316	24.62	3248052	0.8	7312193	1613.329			0.696	6165		2.144584	81
		318	24.57	4064141	yes						7890			
19	13C-1,2,3,7,8-PeCDF	352	31.97	3296208	1.58	5382170	1614.512			0.996	3820		1.577374	81
		354	31.89	2085962	yes						3078			
20	13C-2,3,4,7,8-PeCDF	352	33.63	3655531	1.54	6034426	1860.933			1.024	5434		1.534347	93
		354	33.57	2378894	yes						4455			
21	13C-1,2,3,4,7,8-HxCDF	384	38.12	1645215	0.53	4772120	1631.045			1.227	2322		1.332773	82
		386	38.09	3126906	yes						6463			
22	13C-1,2,3,6,7,8-HxCDF	384	38.24	1871109	0.52	5446354	1728.769			1.139	2439		1.435092	86
		386	38.20	3575246	yes						6953			
23	13C-2,3,4,6,7,8-HxCDF	384	38.92	1700490	0.52	4936999	1680.321			1.221	2842		1.338387	84
		386	38.87	3236509	yes						6640			
24	13C-1,2,3,7,8,9-HxCDF	384	39.75	1559704	0.53	4517516	1644.909			1.307	2182		1.251033	82
		386	39.69	2957814	yes						6181			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.46	1192049	0.45	3841171	1381.712			1.247	3339		1.266359	69
		420	41.41	2649122	yes						3991			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.76	1078823	0.42	3653898	1565.4			1.486	2840		1.063266	78
		420	42.71	2575075	yes						3384			
27	13C-2,3,7,8-TCDD	332	25.68	1823445	0.81	4060541	1657.691			0.66	5961		1.159041	83
		334	25.70	2237096	yes						8421			
28	13C-1,2,3,7,8-PeCDD	368	34.36	2212328	1.65	3549046	2044.092			0.823	7229		0.821541	102
		370	34.29	1336718	yes						7241			
29	13C-1,2,3,4,7,8-HxCDD	402	39.11	2057485	1.29	3650902	1825.874			1.386	3334		0.910836	91
		404	39.06	1593417	yes						6841			
30	13C-1,2,3,6,7,8-HxCDD	402	39.21	2306308	1.29	4088583	1956.86			1.327	3484		0.951752	98
		404	39.15	1782275	yes						7198			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.41	1511519	0.99	3037733	1469.677			1.377	3875		0.941539	73
		438	42.36	1526214	yes						3049			
32	13C-OCDD	470	45.36	2015856	0.93	4186865	2527.506			0.725	8197		0.754584	63
		472	45.29	2171010	yes						9648			
33	13C-1,2,3,4-TCDD	332	25.38	1900932	0.82	4226799	91.188			0.035	6585		46852.42	5
		334	25.34	2825867	yes						9348			
34	13C-1,2,3,7,8,9-HxCDD	402	39.54	2453261	1.27	4390553	82.592			0.052	3653		53159.29	4
		404	39.49	1937292	yes						7759			
35	13C-2,3,7,8-TCDD	328	25.70	539109	1	1078219	202.621			0.197	2935		2.517916	101
		328	25.62	539109	yes						2935			
36	Totals Tetra-Furans	304	-	0	-	0	6.895579		# Isomers	14	-0.125853		0.97161	-
		306	26.00	0	-									
37	Totals Tetra-Dioxins	320	-	0	-	0	1.71825		3	-0.150671			1.240957	-
		322	26.00	0	-									
38	Totals Penta-Furans	340	-	0	-	0	13.11727		9	-0.120101			1.034611	-

		342	34.00	0	-					.
39	Totals Penta-Dioxins	356	-	0	-	0	1.829732	6	-0.135206	. 1.116262
		358	34.00	0	-					.
40	Totals Hexa-Furans	374	-	0	-	0	23.09816	10	-0.117864	. 1.132007
		376	38.50	0	.					.
41	Totals Hexa-Dioxins	390	-	0	-	0	13.23905	5	-0.122509	. 1.108192
		392	39.50	0	-					.
42	Totals Hepta-Furans	408	-	0	-	0	47.37936	3	-0.153493	. 1.192692
		410	42.50	0	-					.
43	Totals Hepta-Dioxins	424	-	0	-	0	87.73584	2	-0.121357	. 1.084762
		426	42.50	0	-					.

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	HRF Mean	%Rec
36	Totals Tetra-Furans	304	21.16	1594	0.9	3567	0.09477	2		0.97161	-
		306	26.00	1773	no			2			
36	Totals Tetra-Furans	304	21.64	4010	0.77	9223	0.259517	7		0.97161	-
		306	26.00	5214	yes			7			
36	Totals Tetra-Furans	304	21.88	16452	0.75	38229	1.075856	27		0.97161	-
		306	26.00	21777	yes			26			
36	Totals Tetra-Furans	304	22.23	4148	0.85	9053	0.254718	6		0.97161	-
		306	26.00	4905	yes			5			
36	Totals Tetra-Furans	304	22.34	2028	0.71	4869	0.137056	3		0.97161	-
		306	26.00	2841	yes			3			
36	Totals Tetra-Furans	304	22.61	12691	0.75	29536	0.831234	16		0.97161	-
		306	26.00	16845	yes			17			
36	Totals Tetra-Furans	304	22.91	10495	0.84	23004	0.647393	16		0.97161	-
		306	26.00	12509	yes			14			
36	Totals Tetra-Furans	304	23.00	8939	0.69	21934	0.617302	14		0.97161	-
		306	26.00	12995	yes			14			
36	Totals Tetra-Furans	304	23.35	7637	0.76	17731	0.498994	10		0.97161	-
		306	26.00	10094	yes			10			
36	Totals Tetra-Furans	304	23.67	7257	0.76	16810	0.471115	5	xl	0.97161	-
		306	26.00	9553	OK			4			
36	Totals Tetra-Furans	304	23.74	1427	0.84	3129	0.087872	3		0.97161	-
		306	26.00	1696	no			2			
36	Totals Tetra-Furans	304	24.07	9033	0.82	20071	0.564819	12		0.97161	-
		306	26.00	11039	yes			13			
36	Totals Tetra-Furans	304	24.37	2133	0.83	4706	0.132458	3		0.97161	-
		306	26.00	2573	yes			3			
1	2,3,7,8-TCDF	304	24.65	14559	0.79	32922	0.926504	16		0.97161	-
		306	24.57	18362	yes			15			
36	Totals Tetra-Furans	304	25.24	3915	0.79	8852	0.24912	5		0.97161	-
		306	26.00	4937	yes			5			
36	Totals Tetra-Furans	304	25.39	1067	1.43	1813	0.050984	2		0.97161	-
		306	26.00	745	no			1			
36	Totals Tetra-Furans	304	25.55	2593	0.73	6025	0.169546	3		0.97161	-
		306	26.00	3491	yes			3			
36	Totals Tetra-Furans	304	27.00	522	0.77	1196	0.038689	1		0.97161	-
		306	26.00	674	no			1			
36	Totals Tetra-Furans	304	27.24	556	0.68	1377	0.038788	1		0.97161	-
		306	26.00	821	no			1			

#	Name	Trace	RT	Area	Ion Ratio	Abs.Rasp	pg	S/N	Mod.Usor	RRF Mean	%Rec
37	Totals Tetra-Dioxins	320	22.51	9495	0.79	21575	0.896026	17		1.240957	-
		322	26.00	12080	yes			16			
37	Totals Tetra-Dioxins	320	22.91	1743	0.73	4119	0.163448	3		1.240957	-
		322	26.00	2376	yes			3			
37	Totals Tetra-Dioxins	320	23.24	996	0.78	2272	0.090171	2		1.240957	-
		322	26.00	1276	no			2			
37	Totals Tetra-Dioxins	320	24.02	7740	0.78	17611	0.698776	11		1.240957	-
		322	26.00	9871	yes			10			
37	Totals Tetra-Dioxins	320	24.62	3000	3.01	3996	0.158548	5		1.240957	-
		322	26.00	996	no			1			
37	Totals Tetra-Dioxins	320	24.93	605	0.87	1299	0.051583	1		1.240957	-
		322	26.00	695	no			1			
37	Totals Tetra-Dioxins	320	25.34	595	0.52	1743	0.069178	1		1.240957	-
		322	26.00	1148	no			1			
37	Totals Tetra-Dioxins	320	25.56	956	0.54	2722	0.107965	2		1.240957	-
		322	26.00	1766	no			2			
11	2,3,7,8-TCDD	320	25.71	1058	0.45	3395	0.184657	2		1.240957	-
		322	25.73	2337	no			3			

#	Name	Trace	RT	Area	Ion Ratio	Abs.Rasp	pH	S/N	Mod.User	RRF Mean	%Rec
38	Totals Penta-Furans	340	27.79	106491	1.53	176070	5.952035	135		1.034611	-
		342	34.00	69579	yes			128			
38	Totals Penta-Furans	340	30.04	58369	1.57	95550	3.230062	49		1.034611	-
		342	34.00	37182	yes			47			
38	Totals Penta-Furans	340	30.39	2721	1.71	4311	0.243733	3		1.034611	-
		342	34.00	1590	yes			3			

38	Totals Penta-Furans	340	30.88	313	0.34	1222	0.04131	1	1.034611	-
		342	34.00	909	no			1		
38	Totals Penta-Furans	340	31.19	16229	1.67	25962	0.877644	13	xl	1.034611
		342	34.00	9733	OK			12		
38	Totals Penta-Furans	340	31.30	2874	1.03	4672	0.157936	5		1.034611
		342	34.00	2297	no			5		
38	Totals Penta-Furans	340	31.80	2940	1.46	4949	0.167301	4	xl	1.034611
		342	34.00	2009	OK			3		
2	1,2,3,7,8-PeCDF	340	32.01	15433	1.62	24941	0.945897	15		0.979466
		342	31.93	9509	yes			15		
38	Totals Penta-Furans	340	32.40	1228	2.39	1742	0.058888	1		1.034611
		342	34.00	514	no			2		
38	Totals Penta-Furans	340	32.72	8766	1.36	15234	0.514984	10		1.034611
		342	34.00	6468	yes			11		
3	2,3,4,7,8-PeCDF	340	33.66	11041	1.46	18586	0.565019	14		1.089756
		342	33.58	7542	yes			15		
38	Totals Penta-Furans	340	33.96	12869	1.53	21257	0.718592	16		1.034611
		342	34.00	8388	yes			15		

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
39	Totals Penta-Dioxins	356	30.38	-10539	1.55	-17338.35	-0.876782	11	xl	1.116262	-
		358	34.00	-6799.355	OK			152			
39	Totals Penta-Dioxins	356	31.46	3520	1.38	6065	0.306102	4		1.116262	-
		358	34.00	2545	yes			5			
39	Totals Penta-Dioxins	356	31.96	1498	4.88	1805	0.091071	2		1.116262	-
		358	34.00	307	no			1			
39	Totals Penta-Dioxins	356	32.15	5833	1.66	9345	0.472566	6	xl	1.116262	-
		358	34.00	3512	OK			6			
39	Totals Penta-Dioxins	356	32.49	3757	1.56	6165	0.3111	4		1.116262	-
		358	34.00	2408	yes			5			
39	Totals Penta-Dioxins	356	32.84	1876	1.42	3194	0.161248	3		1.116262	-
		358	34.00	1318	yes			3			
39	Totals Penta-Dioxins	356	33.20	1373	1.54	2263	0.114263	2		1.116262	-
		358	34.00	891	no			2			
39	Totals Penta-Dioxins	356	33.41	2938	1.33	5151	0.259917	3		1.116262	-
		358	34.00	2213	yes			4			
39	Totals Penta-Dioxins	356	33.63	1917	5.66	2255	0.113864	4		1.116262	-
		358	34.00	339	no			1			
12	1,2,3,7,8-PeCDD	356	34.39	3838	1.55	6316	0.318798	6		1.116262	-
		358	34.31	2478	yes			6			
39	Totals Penta-Dioxins	356	34.63	776	1.57	1270	0.064079	1		1.116262	-
		358	34.00	495	no			1			
39	Totals Penta-Dioxins	356	35.19	1193	1.12	2258	0.113964	2		1.116262	-
		358	34.00	1065	no			3			

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
40	Totals Hexa-Furans	374	36.78	37136	1.23	67325	2.419437	48		1.132007	-
		376	39.50	30189	yes			50			
40	Totals Hexa-Furans	374	36.98	108000	1.28	192207	6.90728	137		1.132007	-
		376	39.50	84206	yes			137			
40	Totals Hexa-Furans	374	37.40	2493	1.27	4457	0.16017	3		1.132007	-
		376	39.50	1964	yes			3			
40	Totals Hexa-Furans	374	37.62	133267	1.22	242533	8.715829	193		1.132007	-
		376	39.50	109267	yes			191			
40	Totals Hexa-Furans	374	37.84	603	0.59	1622	0.058289	1		1.132007	-
		376	39.50	1020	no			2			
4	1,2,3,4,7,8-HxCDF	374	38.13	38836	1.26	69756	2.520593	53		1.159483	-
		376	38.11	30920	yes			53			
5	1,2,3,6,7,8-HxCDF	374	38.26	16458	1.31	29023	0.973289	22		1.094648	-
		376	38.25	12570	yes			21			
40	Totals Hexa-Furans	374	38.60	2143	1.15	4013	0.144214	3		1.132007	-
		376	39.50	1870	yes			3			
40	Totals Hexa-Furans	374	38.85	8352	1.29	14805	0.532043	12		1.132007	-
		376	39.50	6454	yes			12			
6	2,3,4,6,7,8-HxCDF	374	38.93	6870	1.31	12099	0.416467	10		1.176583	-
		376	38.89	5229	yes			10			
7	1,2,3,7,8,9-HxCDF	374	39.77	731	1.04	1434	0.057881	1		1.097314	-
		376	39.70	703	no			1			
40	Totals Hexa-Furans	374	39.85	4918	1.34	8594	0.30884	8		1.132007	-
		376	39.50	3676	yes			7			

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.54	54142	1.3	95770	4.468649	87		1.108192	-
		392	39.50	41628	yes			81			
41	Totals Hexa-Dioxins	390	38.16	-10923.16	1.24	-19732.16	-0.92071	14	xl	1.108192	-
		392	39.50	-8809	OK			12			
41	Totals Hexa-Dioxins	390	38.45	64038	1.27	114602	5.347355	94		1.108192	-
		392	39.50	50564	yes			92			
41	Totals Hexa-Dioxins	390	38.61	-1802.96	1.24	-3256.96	-0.15197	4	xl	1.108192	-

		392	39.50	-1454	OK				3				
41	Totals Hexa-Dioxins	390	38.91	-3605.92	1.24	-6513.92	-0.30394	Hexa-Dioxins NDR	20	xl	1.108192	-	
		392	39.50	-2908	OK				7				
13	1,2,3,4,7,8-HxCDD	390	39.12	4919	1.38	8473	0.417466		9		1.111453	-	
		392	39.05	3554	yes				8				
14	1,2,3,6,7,8-HxCDD	390	39.22	23420	1.36	40683	1.776831		44		1.119648	-	
		392	39.17	17263	yes				39				
15	1,2,3,7,8,9-HxCDD	390	39.55	14504	1.2	26552	1.228744	ERGED PEAKS	20		1.093474	-	
		392	39.50	12048	yes				22				
41	Totals Hexa-Dioxins	390	39.75	-1784.36	1.24	-3223.36	-0.1504	Hexa-Dioxins NDR	11	xl	1.108192	-	
		392	39.50	-1439	OK				3				
41	Totals Hexa-Dioxins	390	40.22	-2814.8	1.24	-5084.8	-0.23726	Hexa-Dioxins NDR	8	xl	1.108192	-	
		392	39.50	-2270	OK				5				

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
8	1,2,3,4,6,7,8-HpCDF	408	41.47	191448	1.05	374236	16.12034	281		1.208367	-	
		410	41.43	182789	yes			284				
42	Totals Hepta-Furans	408	41.69	1165	1.27	2084	0.09344	2		1.192692	-	
		410	42.50	919	no			2				
42	Totals Hepta-Furans	408	41.84	343738	1.03	678024	30.40059	534		1.192692	-	
		410	42.50	334286	yes			546				
9	1,2,3,4,7,8,9-HpCDF	408	42.77	9452	1.05	18465	0.858425	13		1.177018	-	
		410	42.71	9013	yes			13				

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec	
43	Totals Hepta-Dioxins	424	41.46	13860	2.56	19285	1.177865	35		1.084762	-	
		426	42.50	5425	no			14				
43	Totals Hepta-Dioxins	424	41.77	399510	1.04	783951	47.88119	1069		1.084762	-	
		426	42.50	384441	yes			1044				
16	1,2,3,4,6,7,8-HpCDD	424	42.42	351058	1.15	656858	39.85465	848		1.084762	-	
		426	42.36	305800	yes			824				
43	Totals Hepta-Dioxins	424	42.76	16450	4.05	20512	1.252806	32		1.084762	-	
		426	42.50	4062	no			11				
43	Totals Hepta-Dioxins	424	43.71	405	0.78	923	0.056374	1		1.084762	-	
		426	42.50	517	no			1				

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Last modified: Mon Nov 29 13:04:11 2021
Job Code:
Printed: Sat Dec 11 09:43:44 2021

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674 of 729

Name: M3211210A09
Text: REZ817-01R

36: Totals Tetra-Furans

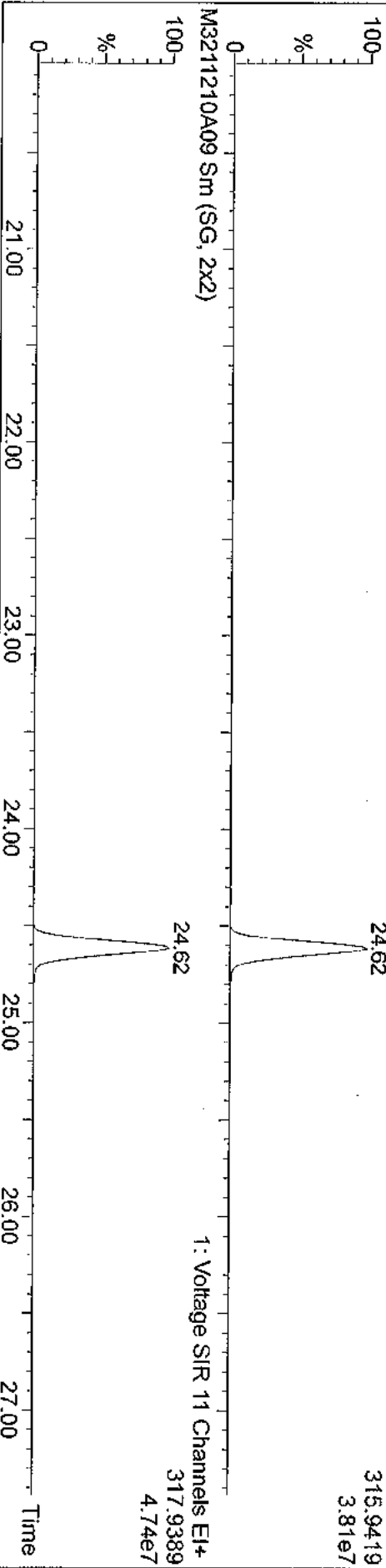
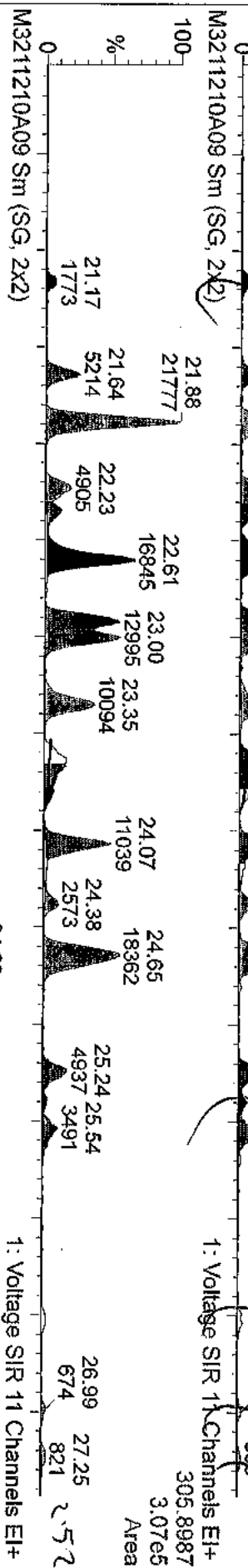
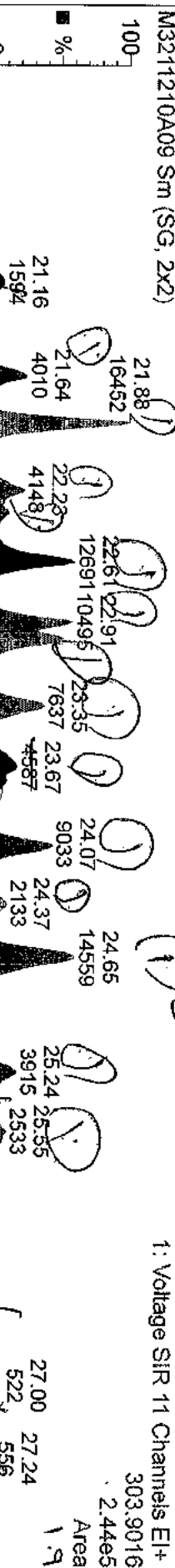
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7716247: APEX_PDI-CORE-04-B-05*, S

AutoSpec Ultima - M536

11-Dec-2021

02:16:15



Quantify Sample Report

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 Last modified: Mon Nov 29 13:04:11 2021
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 Printed: Sat Dec 11 09:43:44 2021

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 Text: REZ817-01R

37: Totals Tetra-Dioxins

REZ817-01R

AutoSpec Ultima - M536

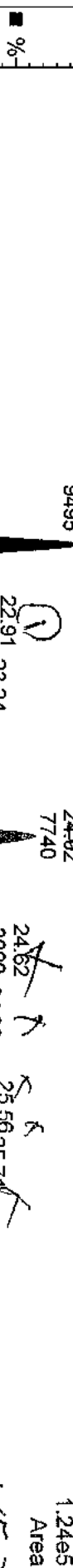
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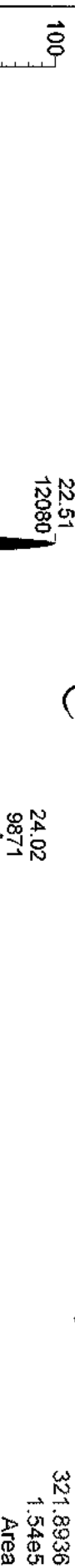
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M3211210A09 Sm (SG, 2x2)



M3211210A09 Sm (SG, 2x2)



M3211210A09 Sm (SG, 2x2)



M3211210A09 Sm (SG, 2x2)



Time

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35: C137-2,3,7,8-TCDD

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

02:16:15

1: Voltage SIR 11 Channels EI+

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5.93e6

Area

25.70
539109

M3211210A09 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

327.8850

5.93e6

Area

25.70
539109

M3211210A09 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

331.9368

2.20e7

Area

25.38
1900932

M3211210A09 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

333.9339

2.71e7

Area

25.38
2325867

Time

Quantify Sample Report

Sample List: C:\MSSTVX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTVX\Default.pro\METHOD\M3211217A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

38: Hexa DPE

REZ817-01R

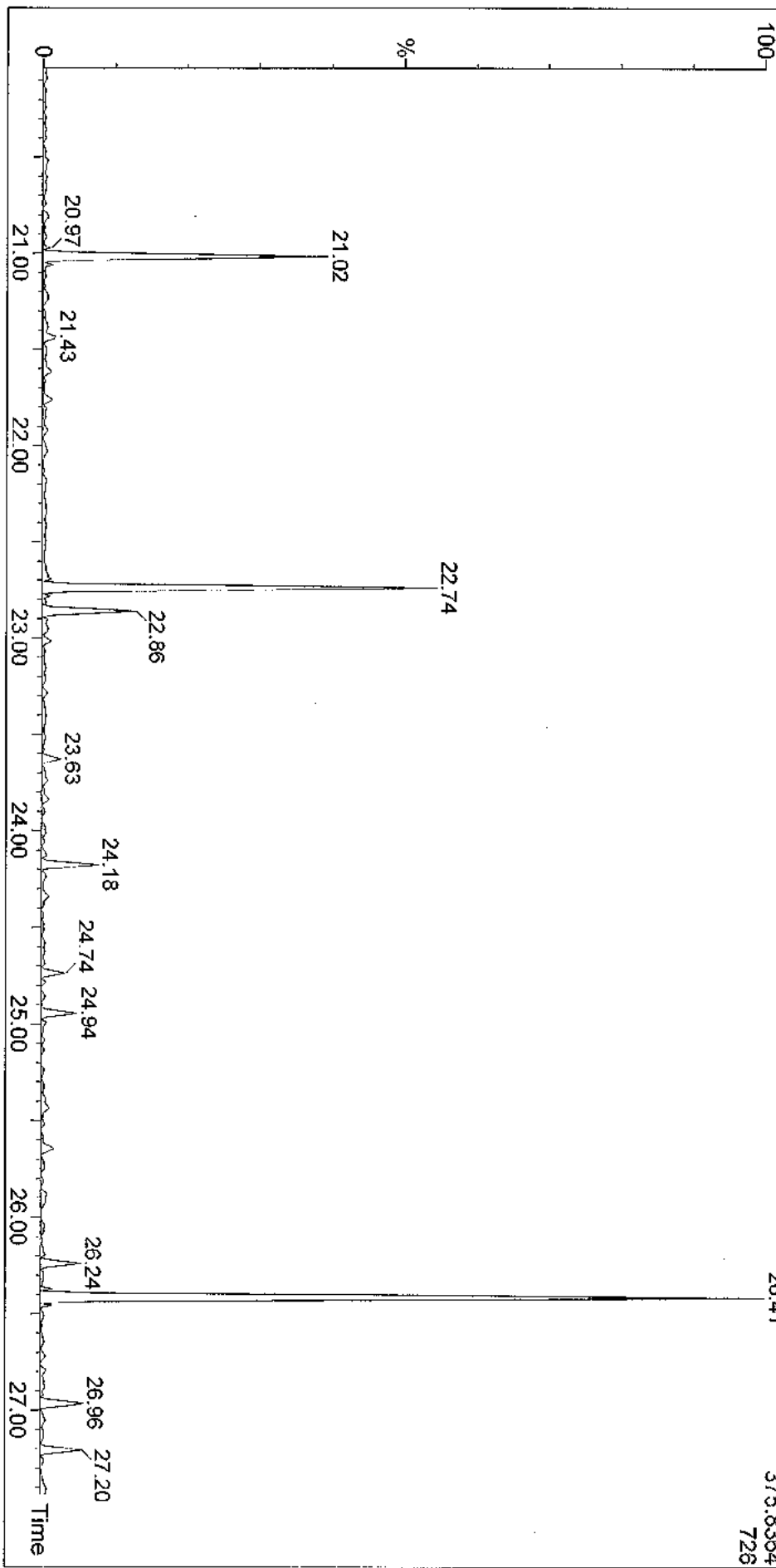
7716247: APEX_PDI-CORE-04-B-05*, S
 M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

02:16:15

1: Voltage SIR 11 Channels EI+
 26.41 375.8364 726



Quantify Sample Report

Sample List: C:\MASSIVE\Default.pro\SMPLMDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSIVE\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: RE2817-01R

39: Junction 1 Lockmass

RE2817-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A09 Sm (SG, 2X2)

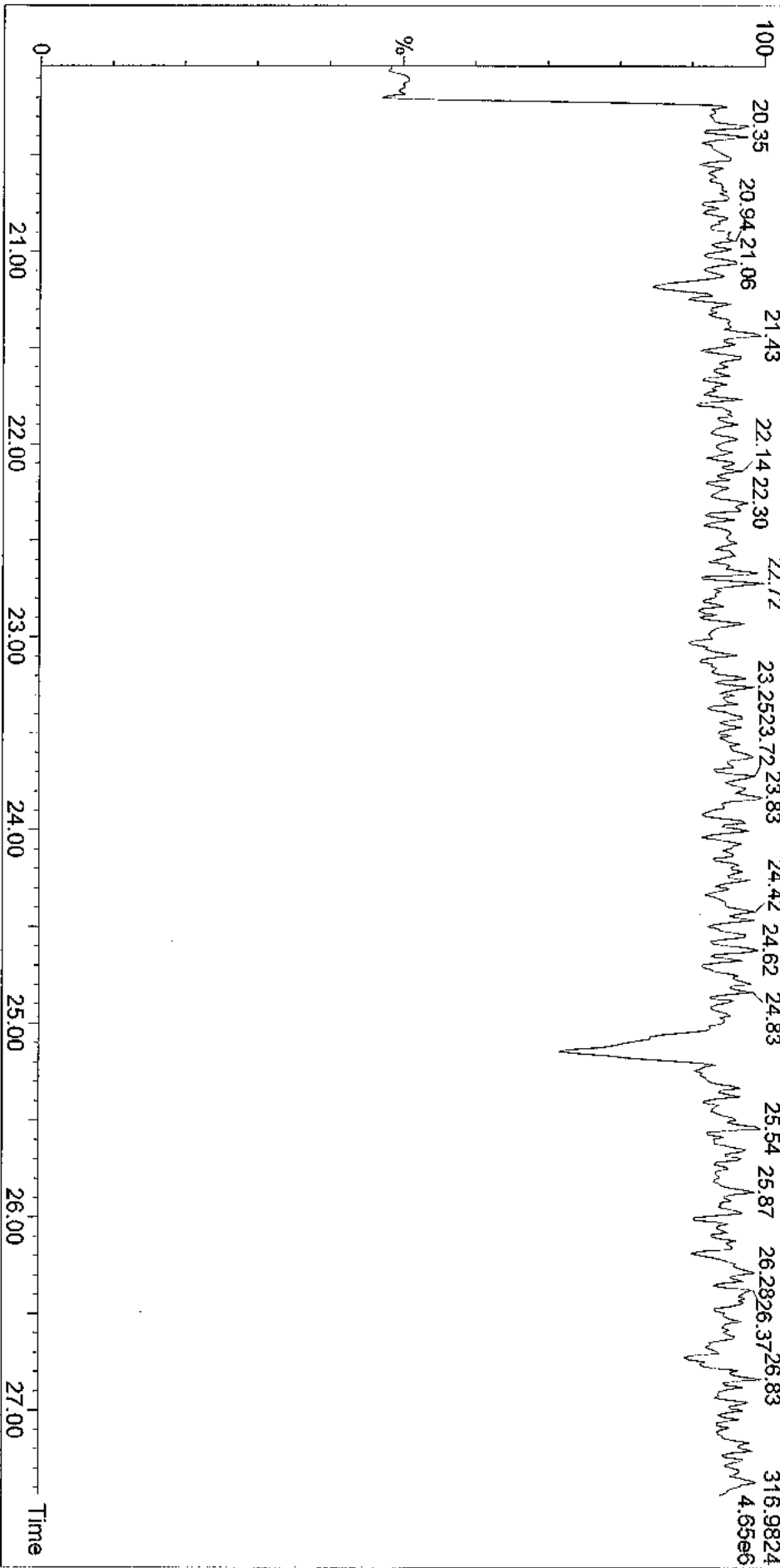
AutoSpec Ultima - M536

11-Dec-2021

02:16:15

1: Voltage SIR 11 Channels EI+

20.35 20.94 21.06 21.43 22.14 22.30 22.72 23.25 23.72 23.83 24.42 24.62 24.83 25.54 25.87 26.28 26.37 26.83 316.9824 4.65e6



Quantify Sample Report

Sample list: C:\MSSTVXX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTVXX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A01E
 Text: db5_win_perf/CS3

39: Function 1 Lockmass

db5_win_perf/CS3
 Lot CS3WT1020

M3211210A01E Sm (SG, 2x2)

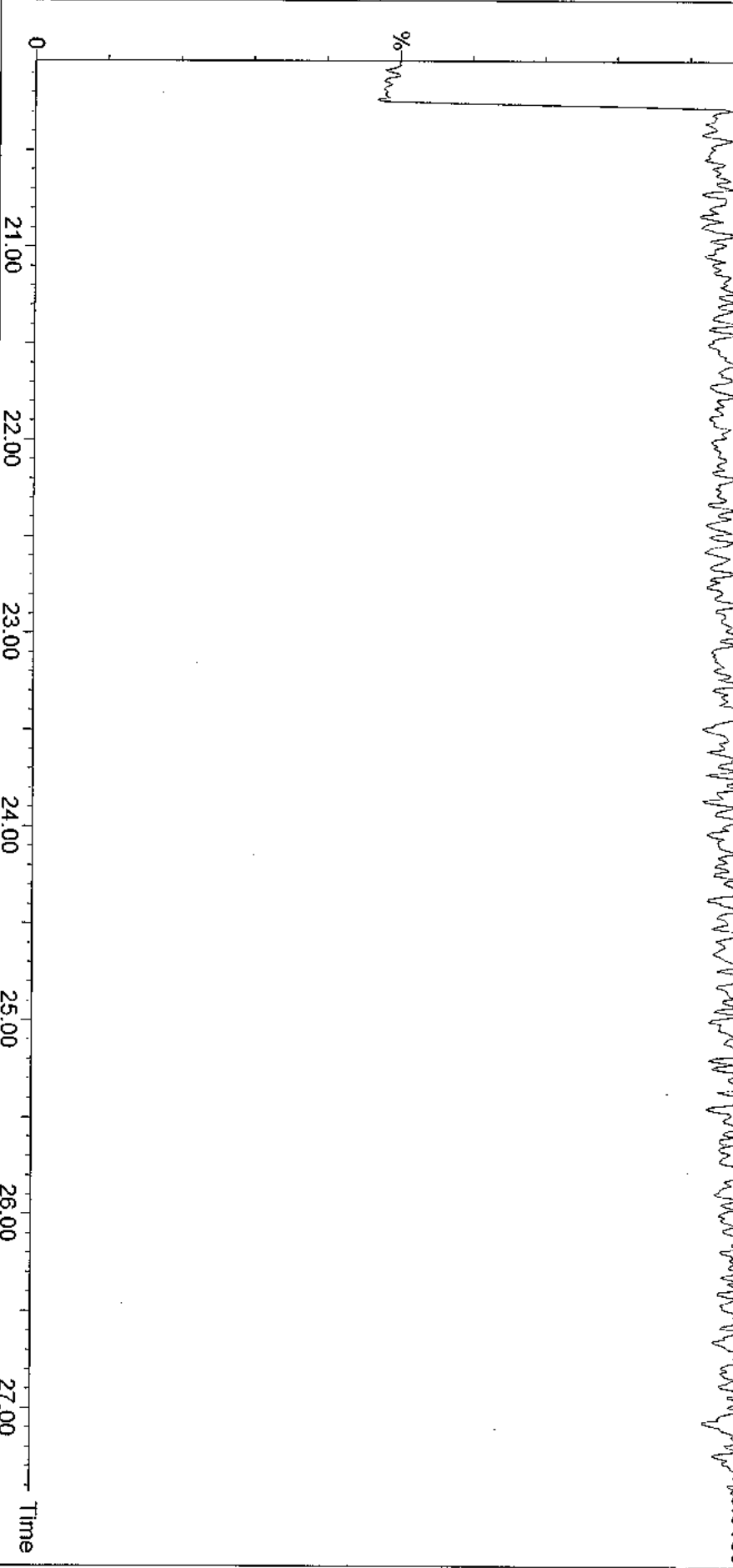
AutoSpec Ultima - M536

10-Dec-2021

19:23:18

1: Voltage SIR 11 Channels EI+

20.29 20.70 21.28 21.44 21.61 22.19 22.85 23.25 23.39 23.97 24.55 25.16 25.34 25.80 26.12 26.71 26.96 316.9824 316.6166



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SMPLD08\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: RE2817-01R

40: Totals Penta-Furans

RE2817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

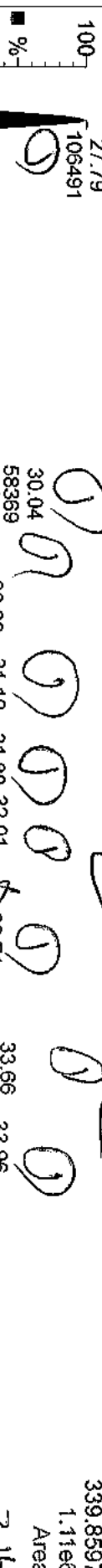
AutoSpec Ultima - M536

11-Dec-2021

02:16:15

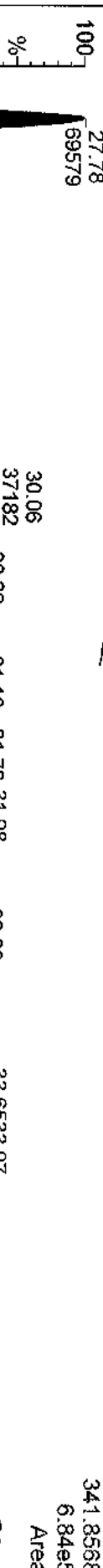
M3211210A09 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



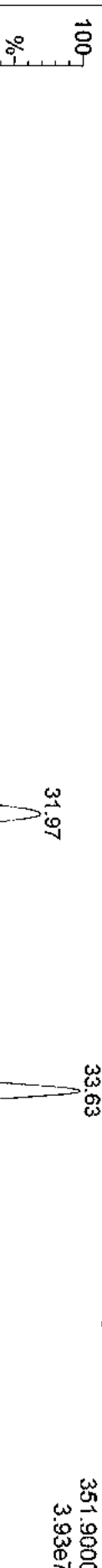
M3211210A09 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



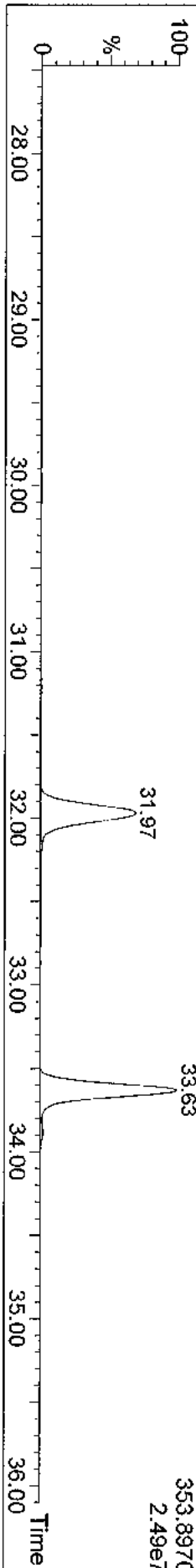
M3211210A09 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



M3211210A09 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



```

Sample List: C:\MSSTEXN\Default-pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:45:22 2021
Method: C:\MSSTEXN\Default-pro\METHOD\M3211127A_HC_1613.D
Last modified: Mon Nov 29 13:04:11 2021
Job Code:
Printed: Sat Dec 11 09:43:44 2021

```

Sat Dec 11 09:43:44 2021

Name: M3211210A09
Text: REZ817-01R

41: Totais Penta-Dioxins

REZ817-01R

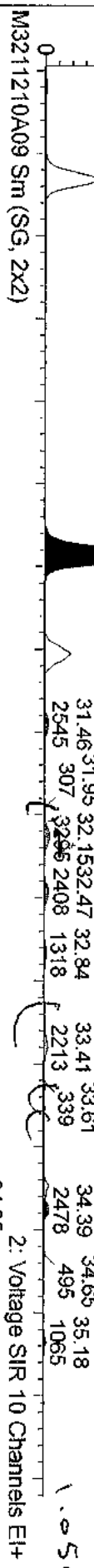
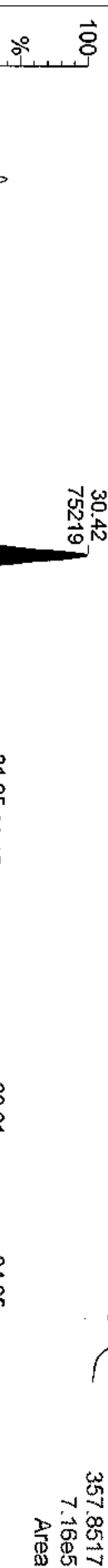
7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

02:16:15



Bureau Veritas Laboratories

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDIR\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

42: Hepa DFE

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

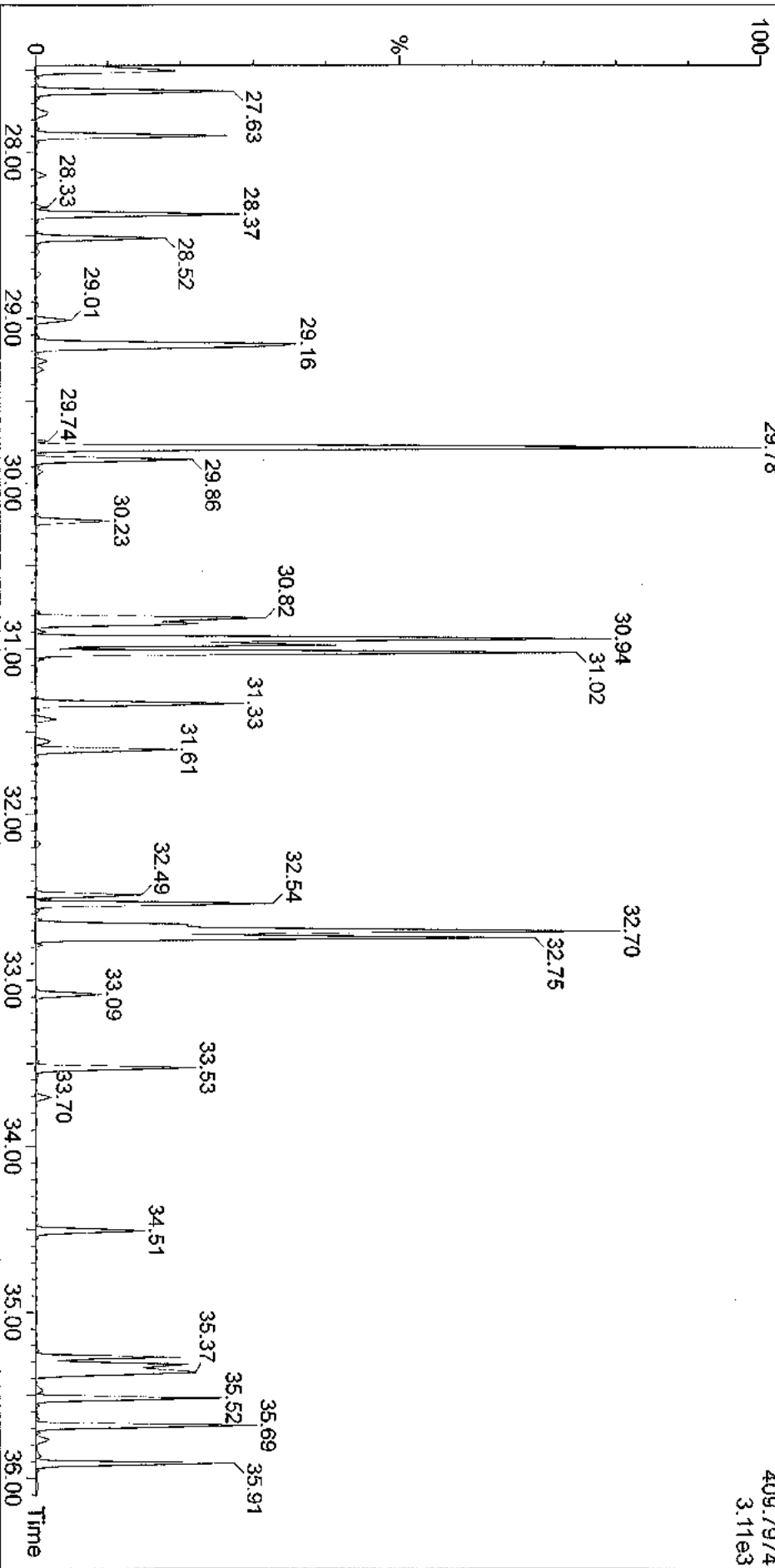
AutoSpec Ultima - M536

11-Dec-2021

02:16:15

2: Voltage SIR 10 Channels EI+

409.7974
 3.11e3



Quantify Sample Report

Sample List: C:\MSSL\XYZ\Default.pro\SMPLTMD\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSL\XYZ\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

43: Punction 2 Lockmass

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm(SG, 2x2)

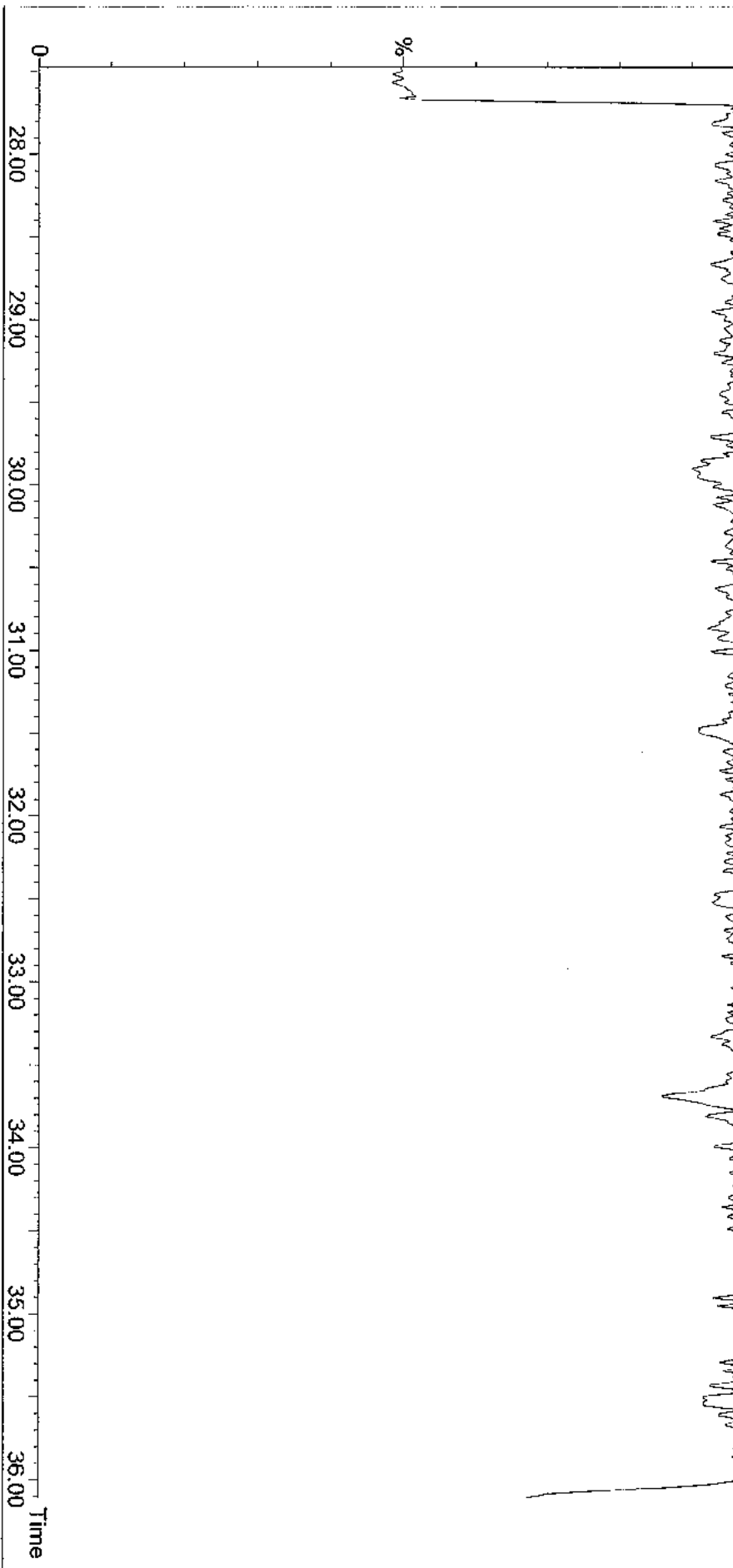
AutoSpec Ultima - M536

11-Dec-2021

02:16:15

2: Voltage SIR 10 Channels EI+

100 28.02 28.57 28.84 29.62 29.78 30.72 31.06 31.29 31.75 32.57 32.82 33.48 34.18 34.62 35.11 35.98 366.9792 3.85e6



Quantity Sample Report

Sample list: C:\MSDCHEM\Default.pro\SAMPLEDIR\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 23 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

44: Totals Hexa-Furans

REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

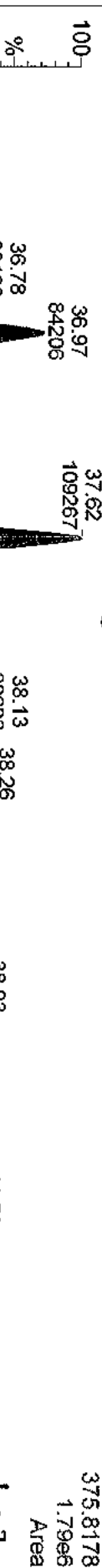
M3211210A09 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



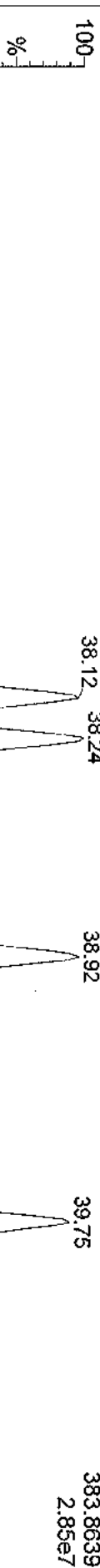
M3211210A09 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



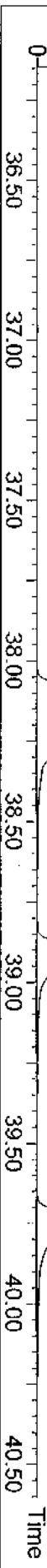
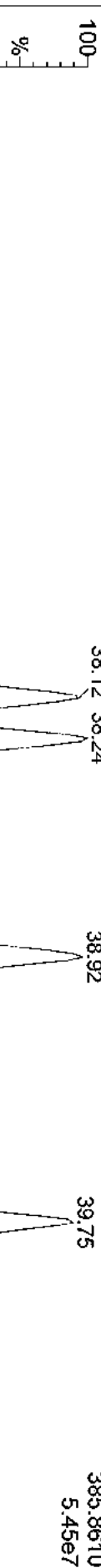
M3211210A09 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



M3211210A09 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+



16

1.18e9

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAFETY\MS211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\MS211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: MS211210A09
 Text: REZ817-01R

45: Totals, Hexa-Dioxins

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

AutoSpec Ultima - M536

11-Dec-2021

02:16:15

MS211210A09 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+

Area

389.8156

9.39e5

1.45e3

40.22

4827

MS211210A09 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+

Area

391.8127

7.45e5

1.11e3

40.22

2270

MS211210A09 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+

Area

401.8559

4.05e7

39.54

403.8530

3.24e7

MS211210A09 Sm (SG, 2x2)

3: Voltage SIR 10 Channels EI+

Area

39.54

403.8530

3.24e7

Time

Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

46: OCCA D2E

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

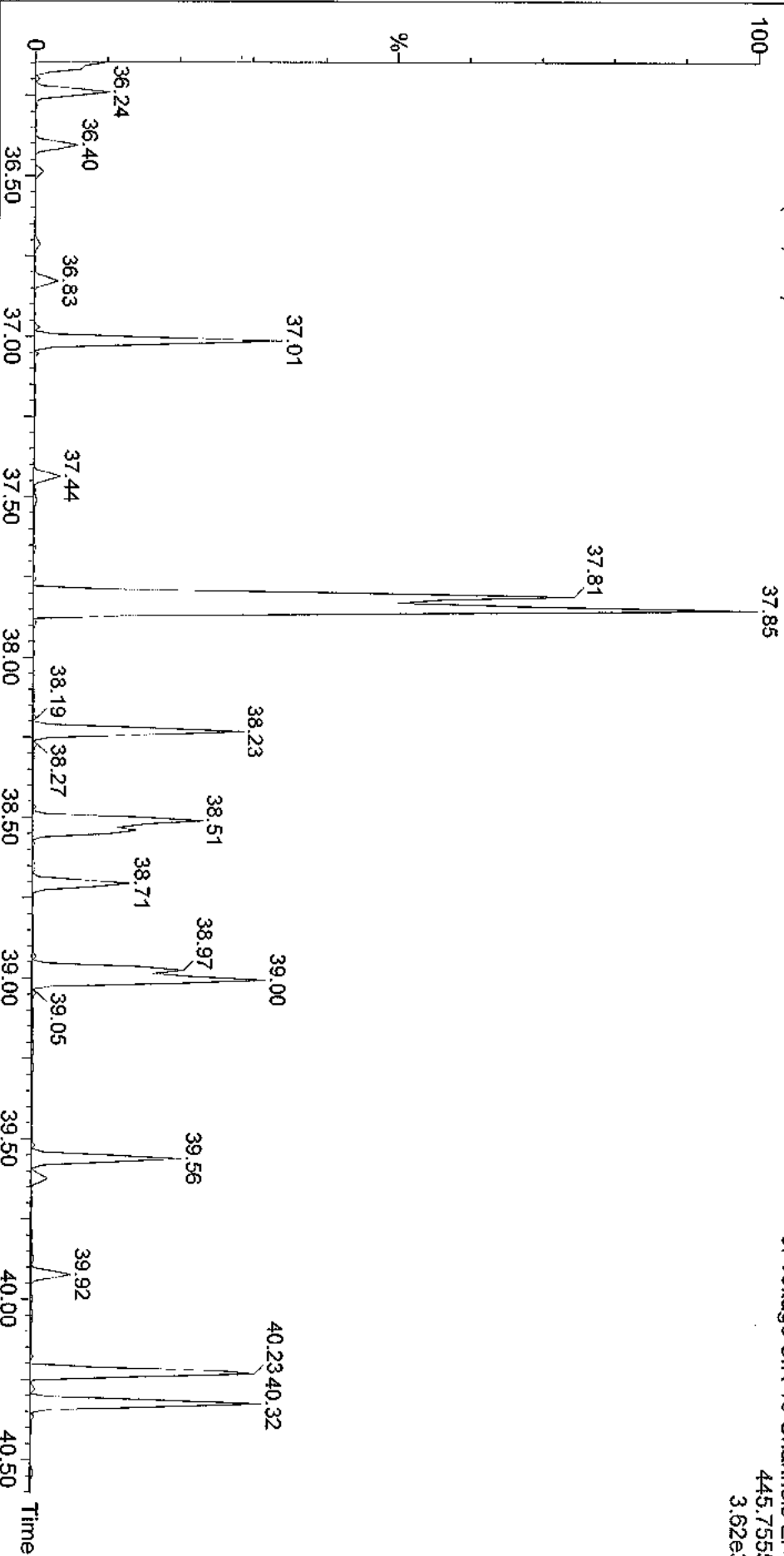
11-Dec-2021

02:16:15

3: Voltage SIR 10 Channels EI+

445.7555

3.62e3



Quantity Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

47: Function 3 Lockmass

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

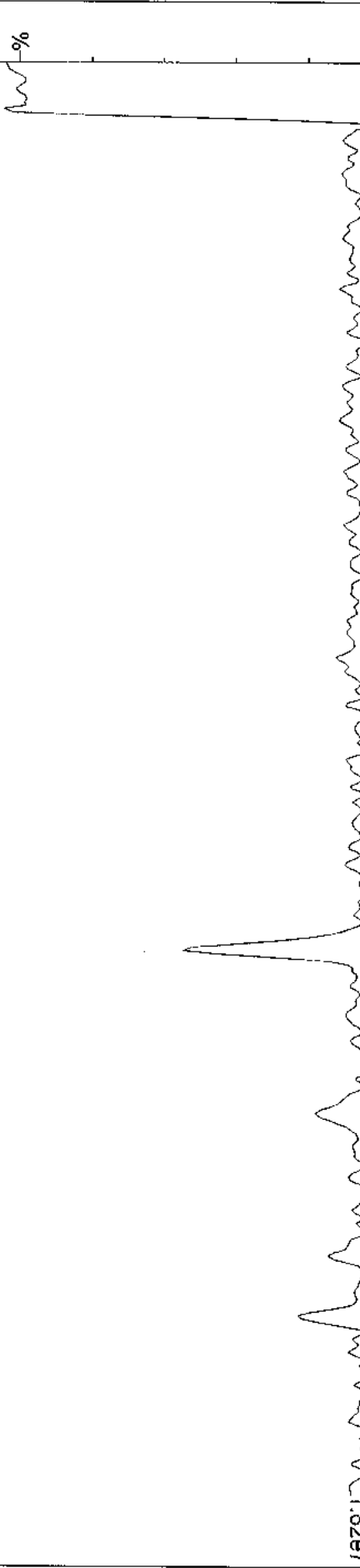
AutoSpec Ultima - M536

11-Dec-2021

02:16:15

3: Voltage SIR 10 Channels EI+

100 36.34 37.01 37.75 38.28 38.73 39.28 39.65 39.91 40.23 40.41 380.9760 1.82e7



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLES\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSDCHEM\Default.pro\METHODS\M3211127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
Text: RE2817-01R

48: Tocal's Hepta-Furans

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

AutoSpec Ultima - M536

11-Dec-2021

02:16:15

M3211210A09 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.47
41.47
191448

42.77
9452

407.7818
6.74e6
Area

M3211210A09 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.47
182789
41.69
919

42.77
9013

409.7788
6.62e6
Area

M3211210A09 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.46

42.76

417.8253
2.21e7

M3211210A09 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

41.46

42.76

419.8220
4.94e7

Time

3

1.25e4

Quantify Sample Report

Sample list: C:\MSSTVX\Default.prp\SAFLEDE\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTVX\Default.prp\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

49: Totals Hepta-Dioxins

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

02:16:15

4: Voltage SIR 10 Channels EI+

423.7767

7.92e6

Area

1.01e3

M3211210A09 Sm (SG, 2x2)

%

100

0

41.46

13860

41.77

399548

41.77

384441

42.42

305800

42.42

42.76

16450

42.76

43.71

405

43.72

517

43.72

425.7737

7.44e6

Area

4: Voltage SIR 10 Channels EI+

435.8169

2.76e7

Area

4: Voltage SIR 10 Channels EI+

437.8140

2.56e7

Area

4: Voltage SIR 10 Channels EI+

437.8140

2.56e7

Area

4: Voltage SIR 10 Channels EI+

437.8140

2.56e7

Area

Time

2

7.29 of 729

Quantity Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

50: Nona DPE

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S
 M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

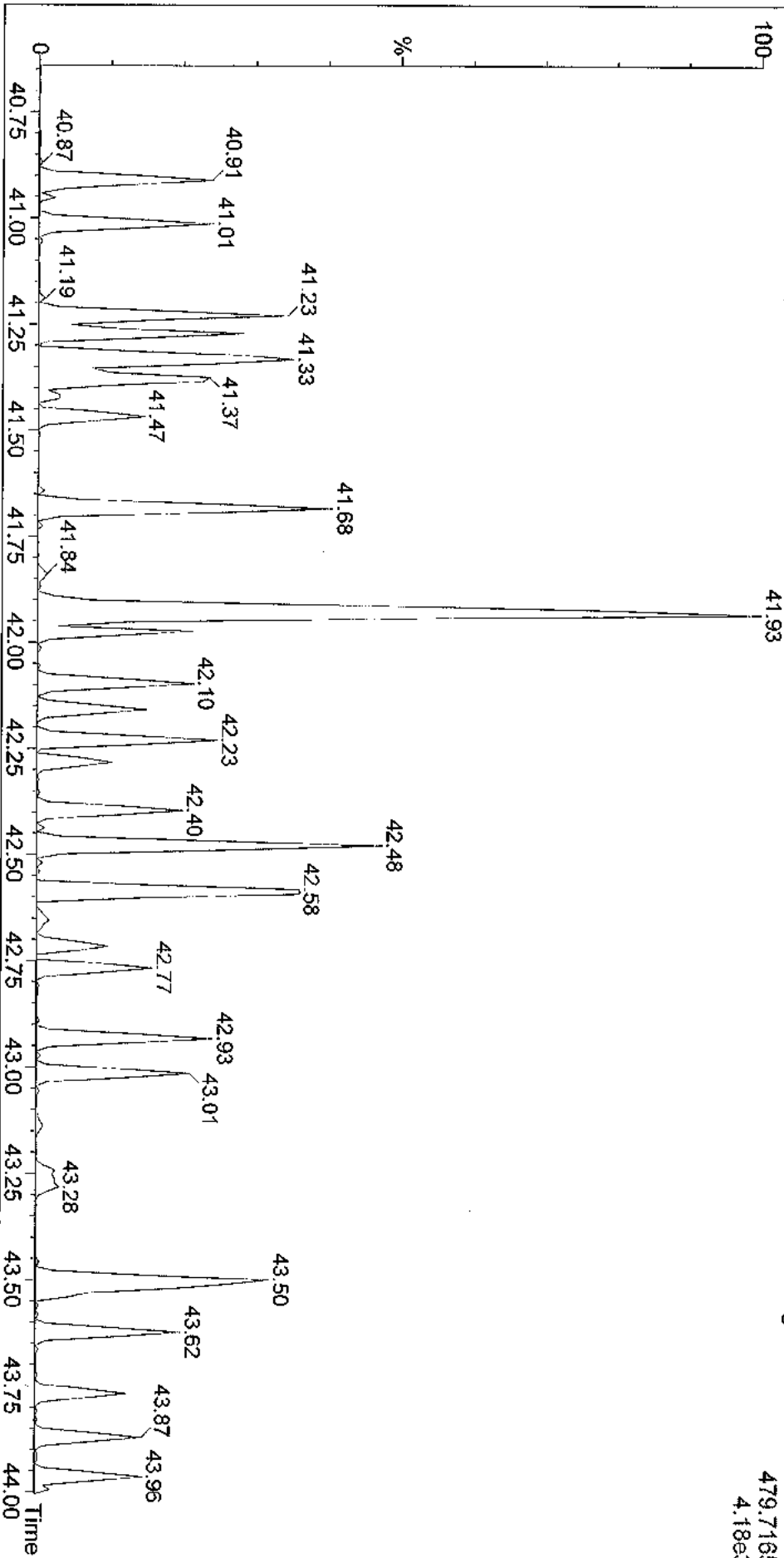
11-Dec-2021

02:16:15

4: Voltage SIR 10 Channels EI+

479.7165

4.18e3



Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTYX\Default.pro\METHOD\M321127A_PC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

51: Function 4 Lockmass

REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

M3211210A09 Sm (SG, 2X2)

4: Voltage S/R 10 Channels EI+



Quantity Sample Report

Sample List: C:\MASSL\XYZ\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSL\XYZ\Default.pro\METHOD\M3211127A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

9

4.04
23

10: OCDF

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

02:16:15



M3211210A09 Sm (SG, 2x2)



M3211210A09 Sm (SG, 2x2)



M3211210A09 Sm (SG, 2x2)



Quantity Sample Report

Sample Name: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: RM2817-01R

0

3.51e3

17: OCPD

RE2817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

AutoSpec Ultima - M536

11-Dec-2021

02:16:15

M3211210A09 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.37
2372757

457.7377
3.39e7
Area

6.36e7

M3211210A09 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.37
2639699

459.7348
3.74e7
Area

7.19e7

M3211210A09 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.36
2015856

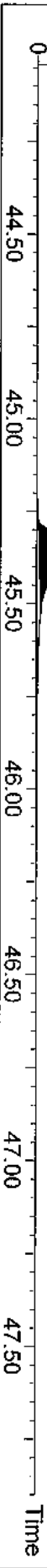
469.7780
2.81e7
Area

M3211210A09 Sm (SG, 2x2)

5: Voltage SIR 8 Channels EI+

45.35
2171010

471.7750
3.07e7
Area



Quantity Sample Report

Sample List: C:\MASSLYNX\Default-pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default-pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
 Text: REZ817-01R

52: Deca DB

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

Autospec Ultima - M536

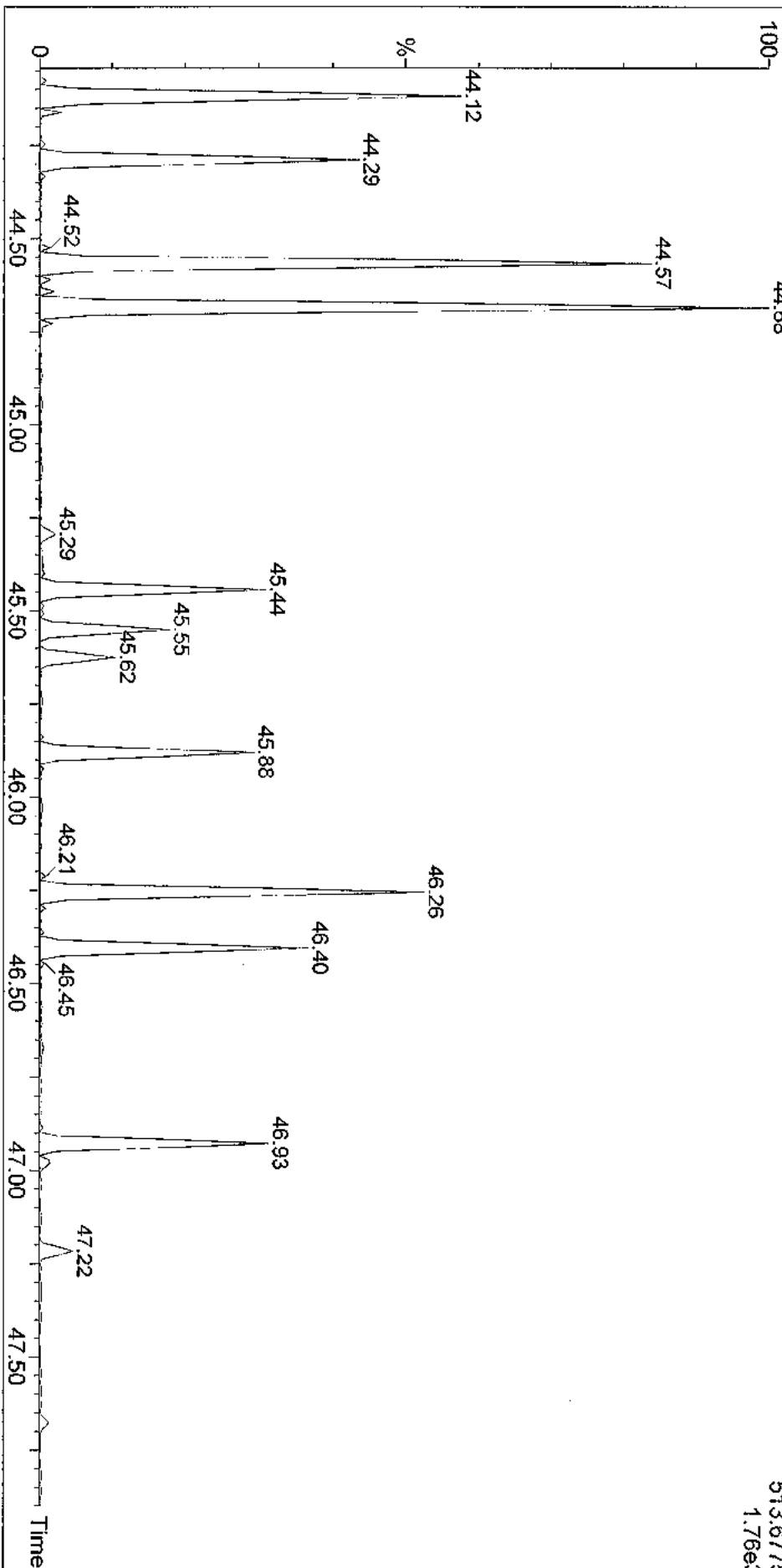
11-Dec-2021

02:16:15

5: Voltage SFR 8 Channels EI+

513.6775

1.76e3



Quantify Sample Report

Sample List: C:\MASSVIEW\Default-pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSVIEW\Default-pro\METHODS\M3211127A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A09
Text: REZ817-01R

S3: Punction 5 LockMass

REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

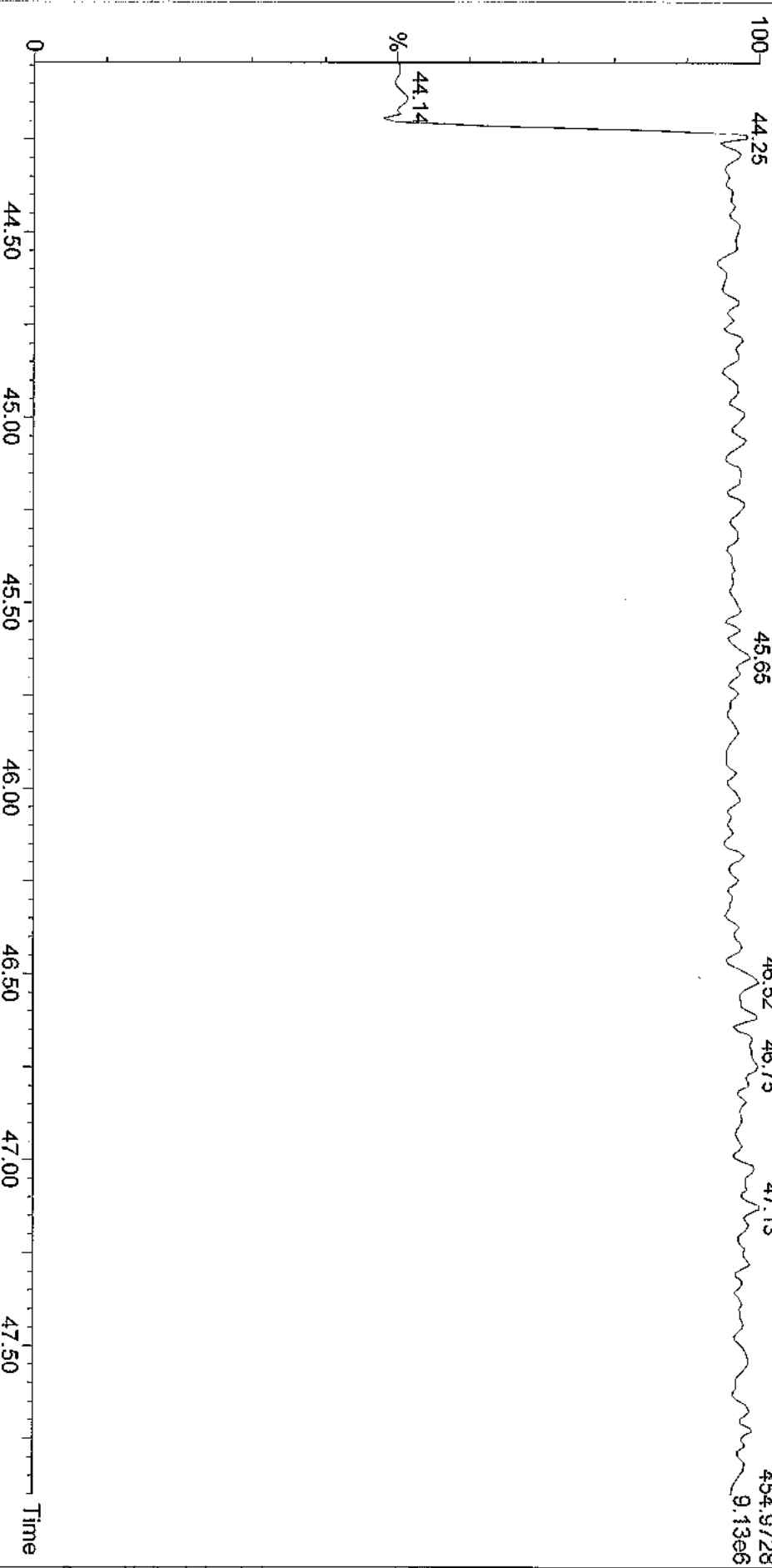
11-Dec-2021

02:16:15

5: Voltage SIF 8 Channels EI+

454.9728

9.13e6



REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

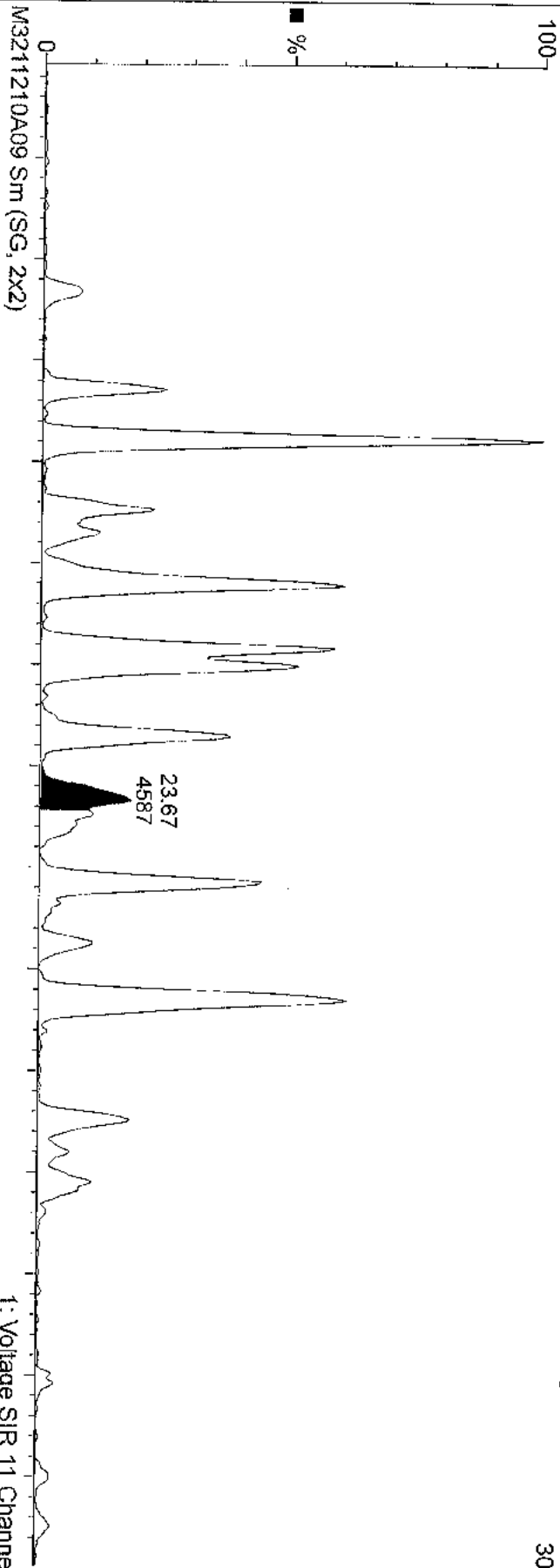
7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

M3211210A09 Sm (SG, 2x2)

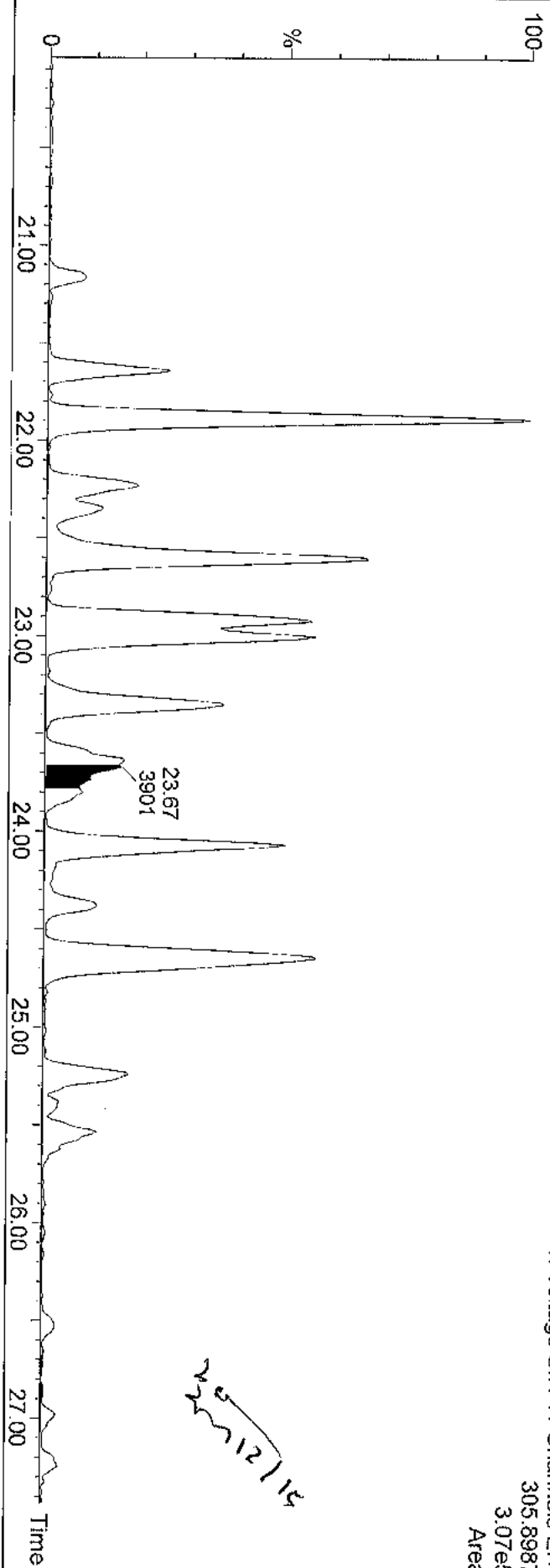
1: Voltage SIR 11 Channels EI+

303.9016
2.44e5
Area 66



1: Voltage SIR 11 Channels EI+

305.8987
3.07e5
Area



23.67 3901

REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

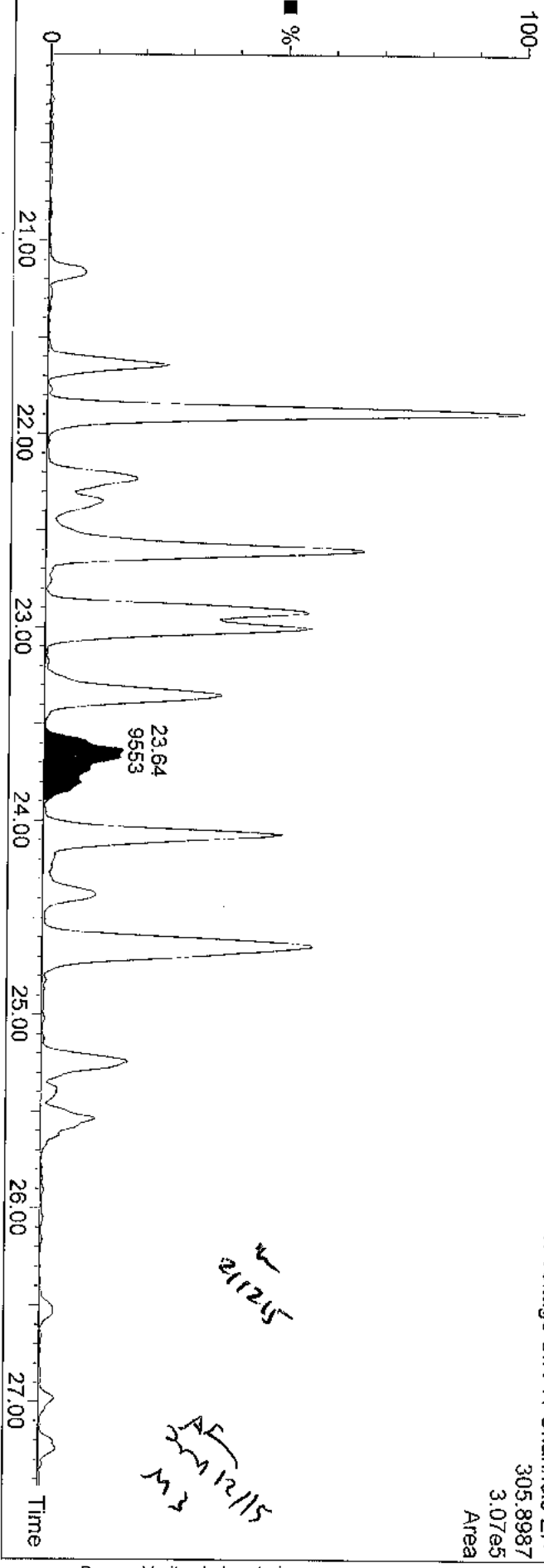
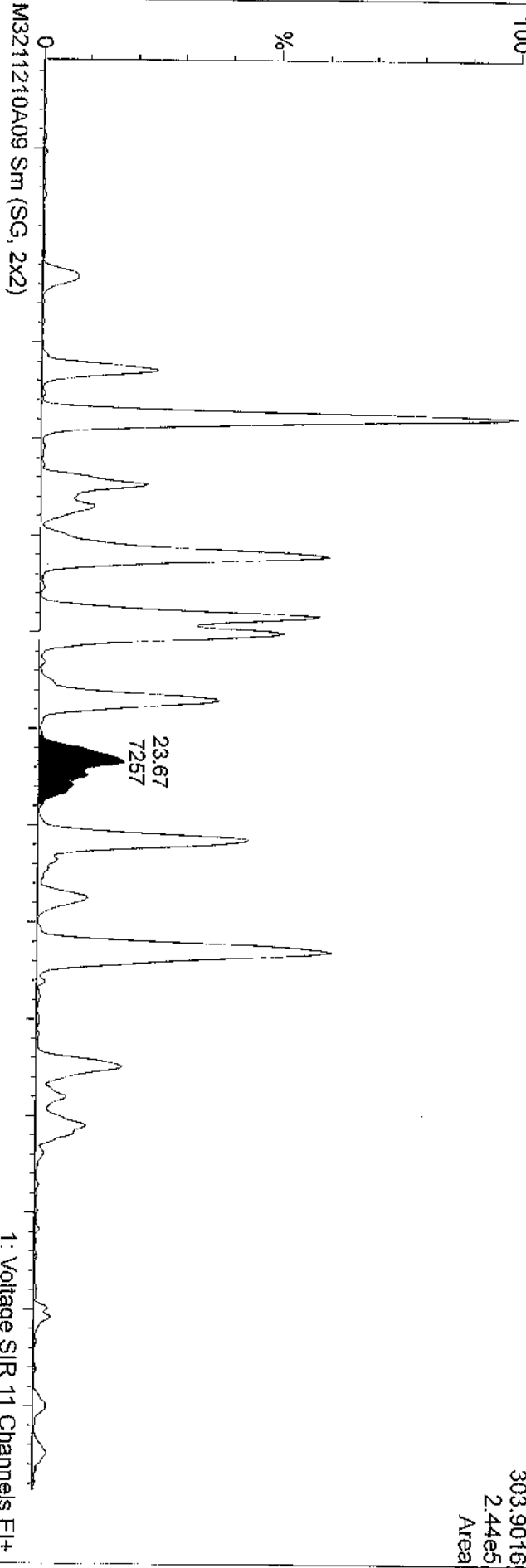
M3211210A09 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

303.9016

2.44e5

Area



1: Voltage SIR 11 Channels EI+

305.8987

3.07e5

Area

211215

APEX
7716247
12/15

REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

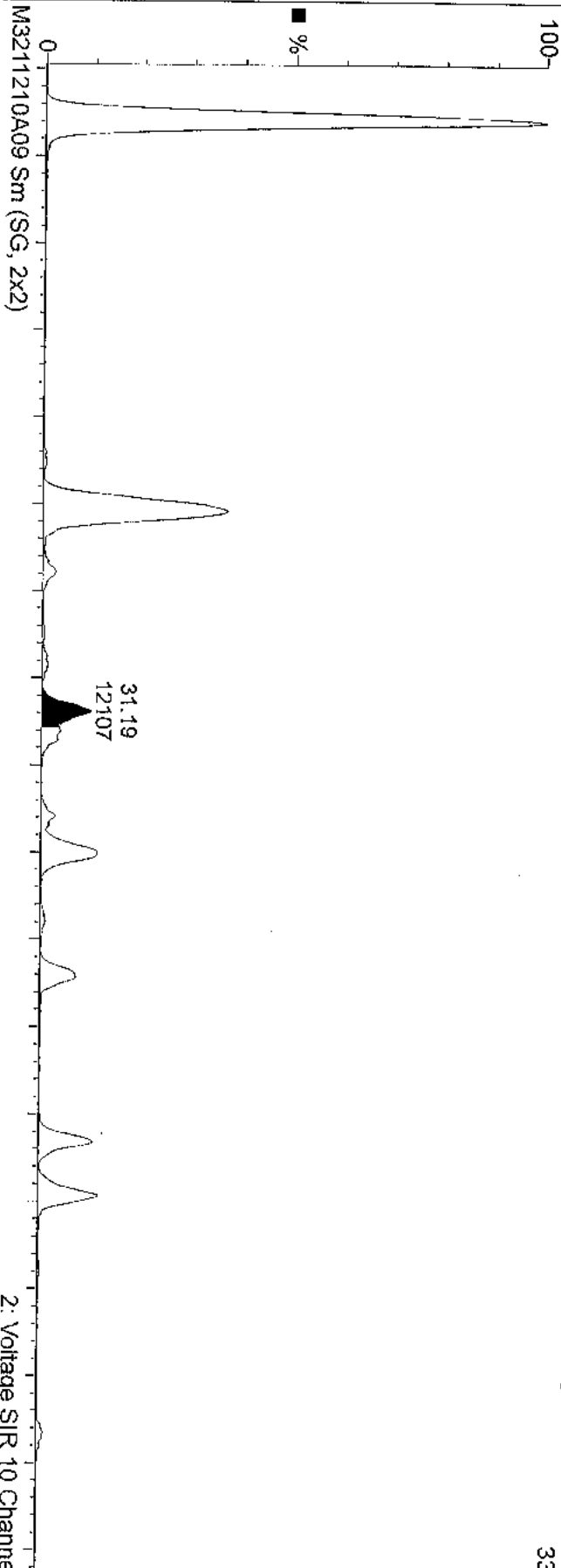
M3211210A09 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

339.8597

1.11e6

Area



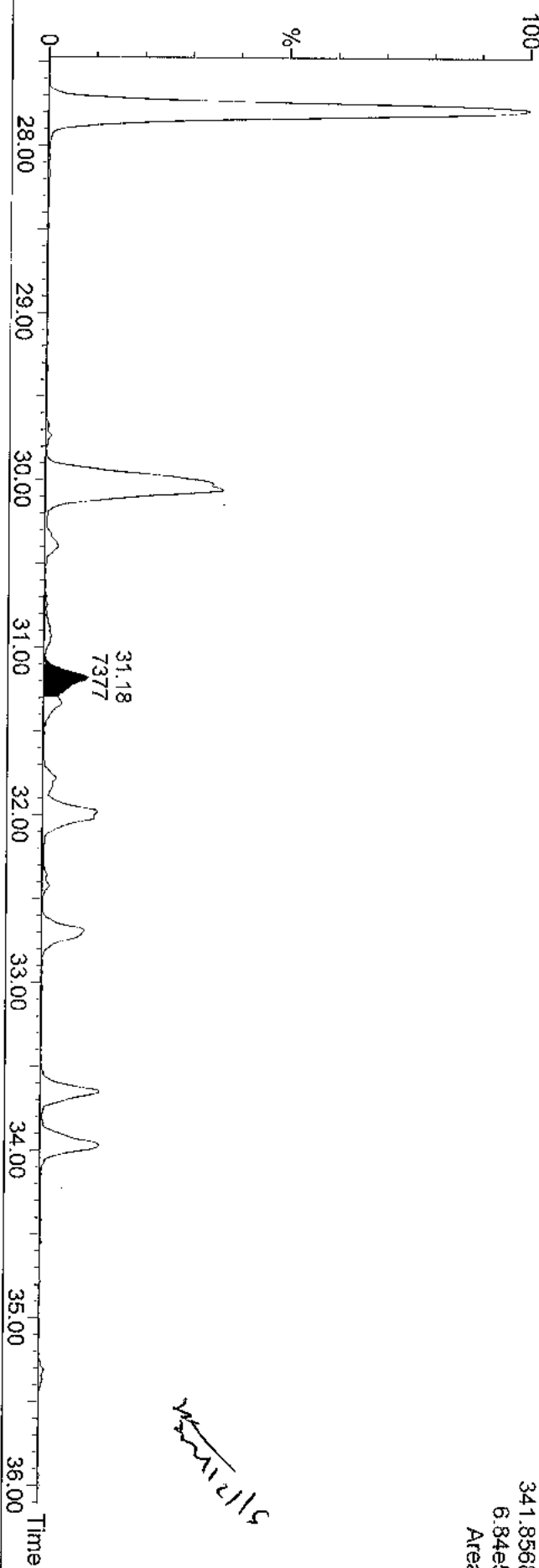
M3211210A09 Sm (SG, 2x2)

2: Voltage SIF 10 Channels EI+

341.8568

6.84e5

Area



5/12/21

REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

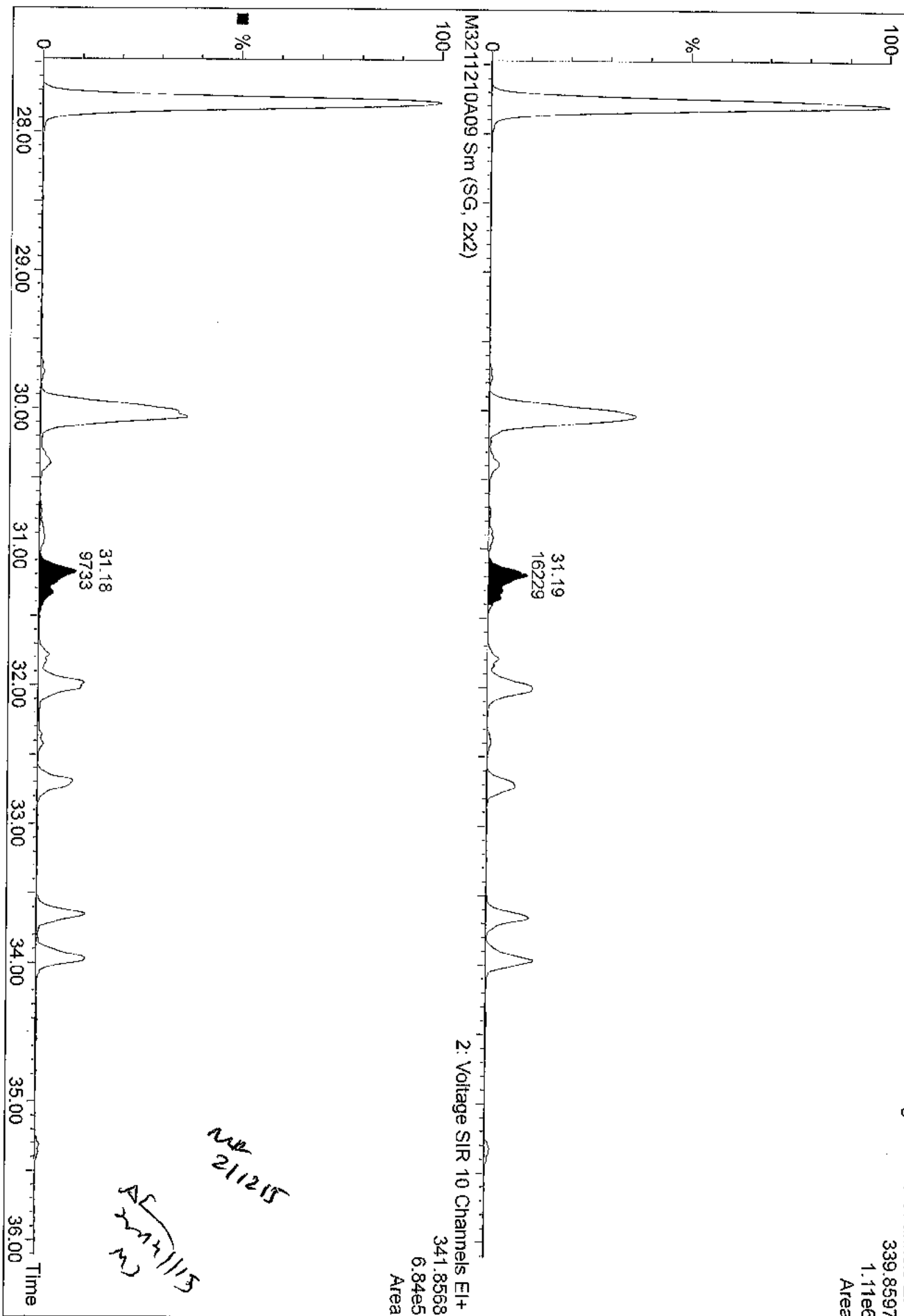
M3211210A09 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597

1.11e6

Area



Area

341.8568

6.84e5

REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

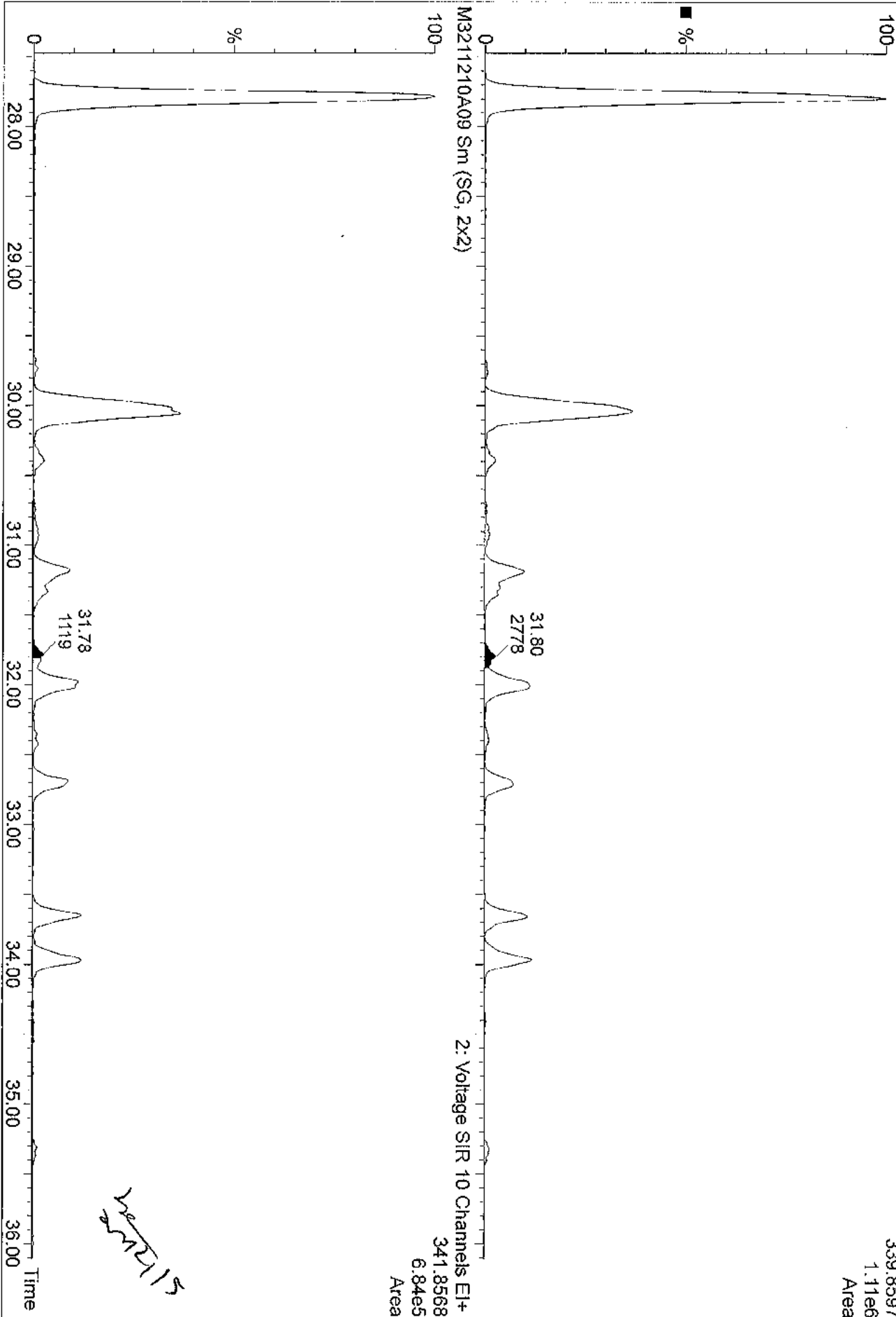
M3211210A09 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

339.8597

1.11e6

Area



REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

M3211210A09 Sm (SG, 2x2)

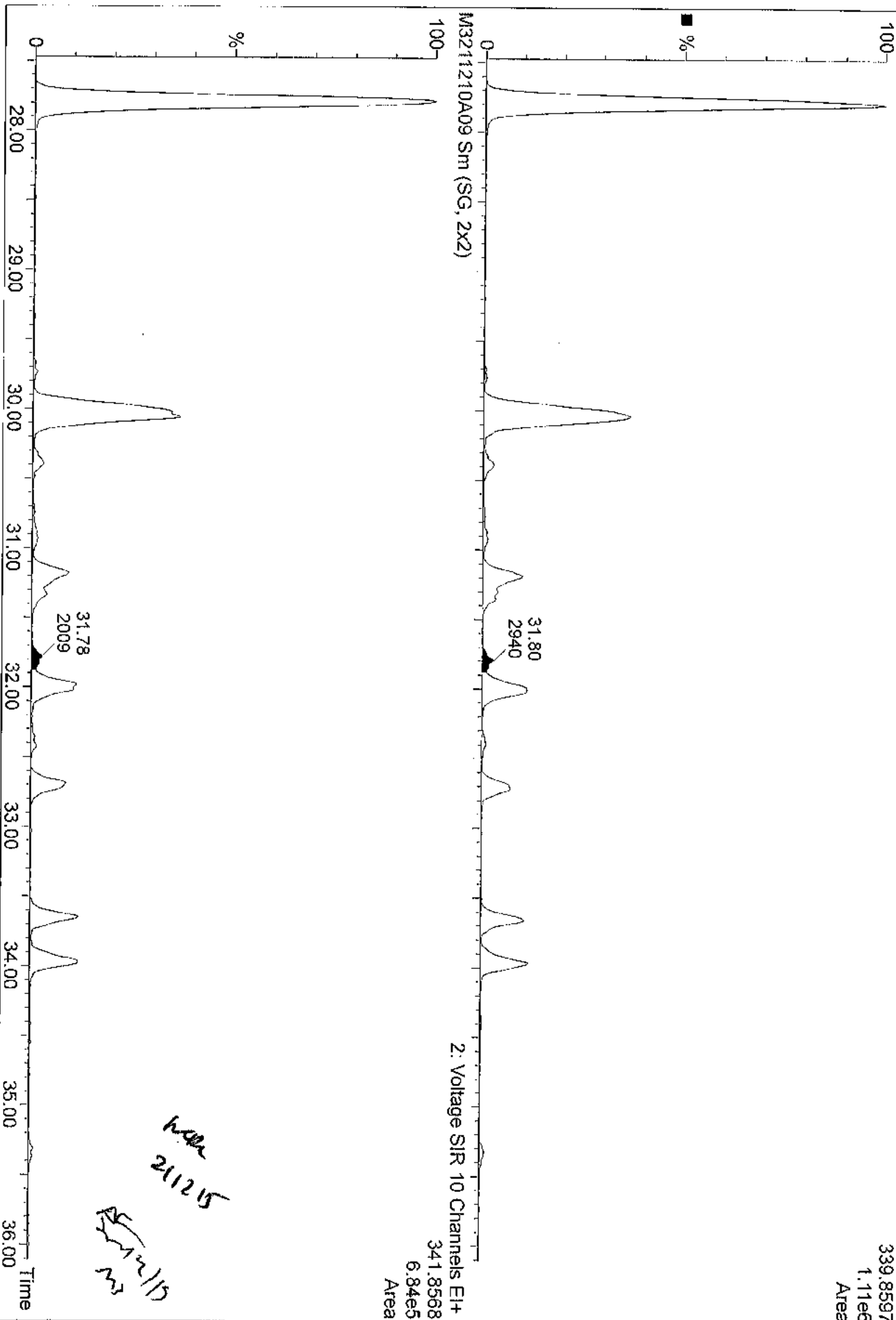
2: Voltage SIR 10 Channels EI+

339.8597

1.11e6

Area

701 of 729



REZ817-01R

7716247: APEX_PDI-CORE-04-B-05*, S

M3211210A09 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

02:16:15

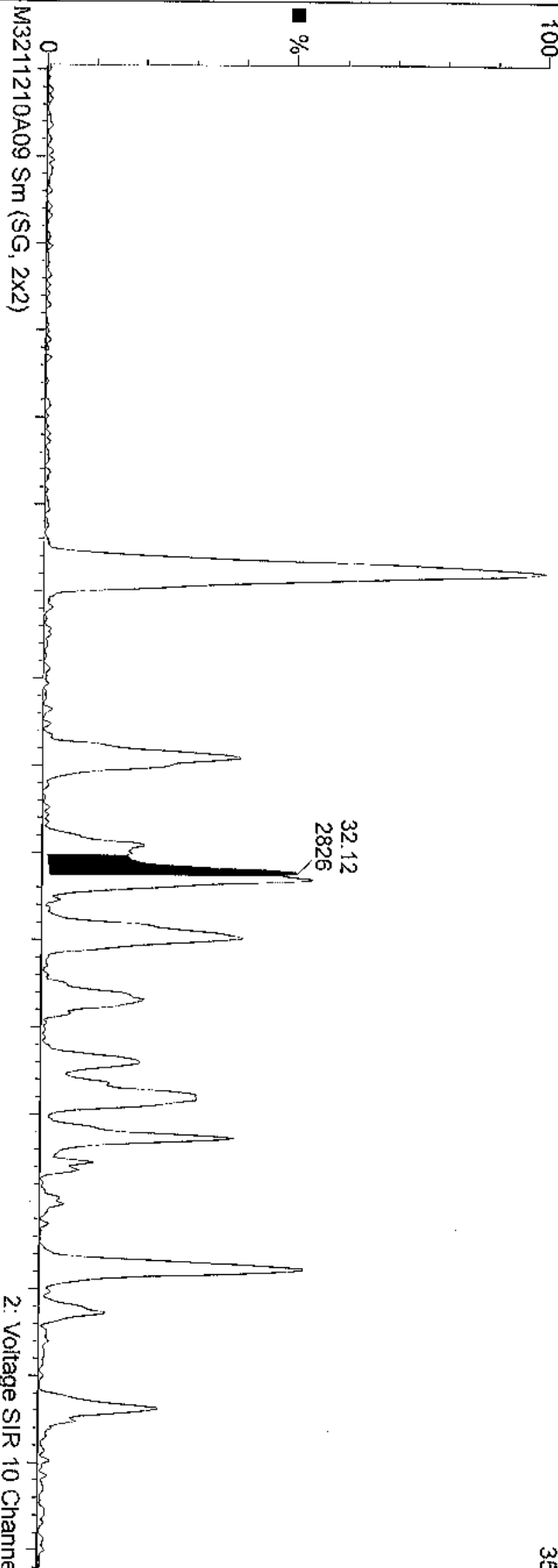
2: Voltage SIR 10 Channels EI+

355.8546

8.35e4

Area

720102



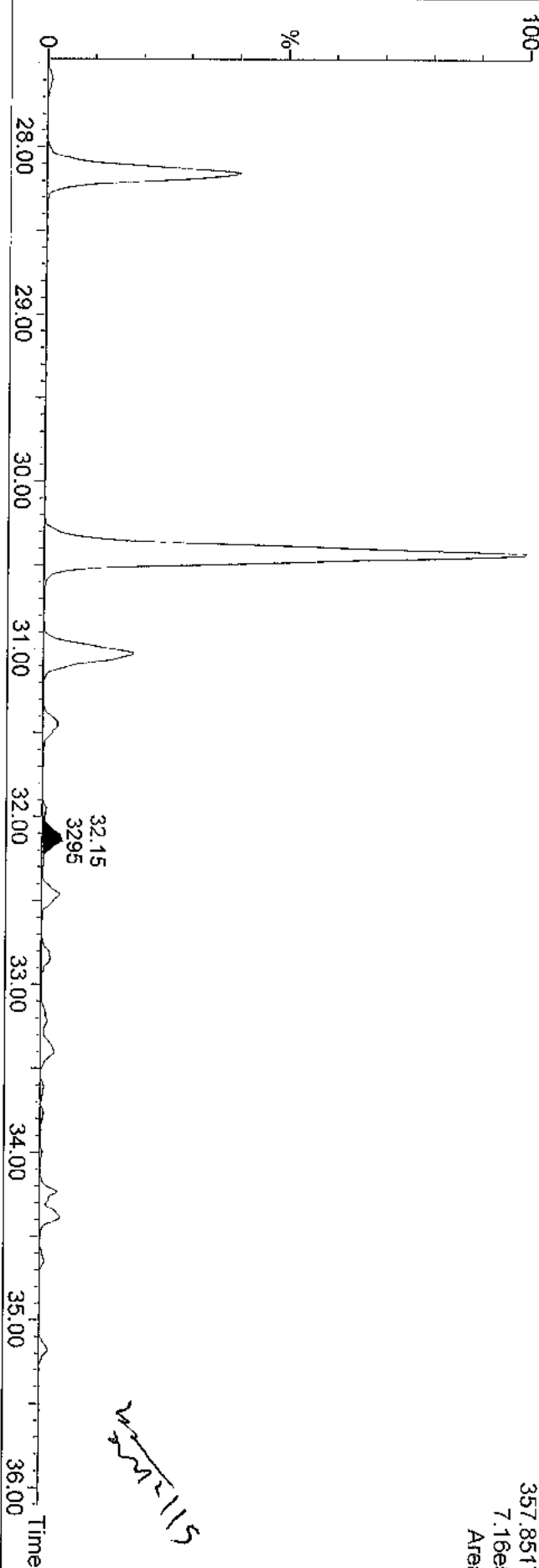
M3211210A09 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

357.8517

7.16e5

Area



7716247

REZ817-01R

AutoSpec Ultima - M536

11-Dec-2021

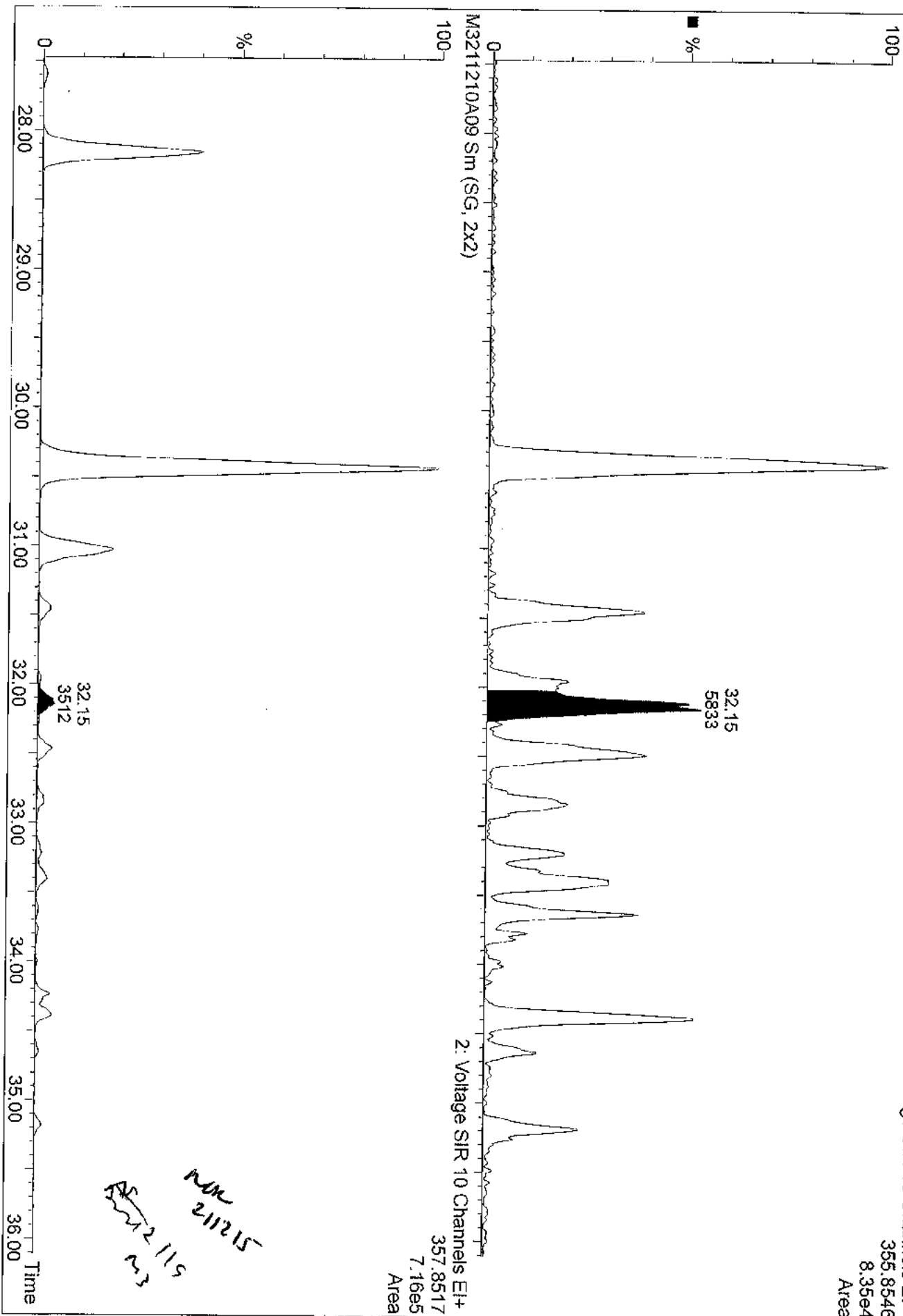
7716247: APEX_PDI-CORE-04-B-05*, S

02:16:15

M3211210A09 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+

355.8546
8.35e4
Area



Wilen MS211210A10

Sample

Acqu 2021/11/12 3:07

Sampl REZ818-01R

Com REZ818-01R

Sampl 20,0227

Run

File 1127A_1613_Spt

7716247: APEX_PDI-CORE-04-B-06*, S

Wt Fac 2.00

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	Code	TEF	LOD(pg)	S/N	Mod.User	RRF Mean	%Rec
1	2,3,7,8-TCDF	304	-	0	-	0	-0.124976		-0.012	0.019 Max T	-0.124976	-	0.97161	-
		306	24.57	0	-						-			
2	1,2,3,7,8-PeCDF	340	-	0	-	0	-0.094242		-0.005	-0.094242	-		0.979466	-
		342	31.93	0	-						-			
3	2,3,4,7,8-PeCDF	340	-	0	-	0	-0.084704		-0.042	-0.084704	-		1.089756	-
		342	33.58	0	-						-			
4	1,2,3,4,7,8-HxCDF	374	-	0	-	0	-0.036742		-0.004	-0.036742	-		1.150483	-
		376	38.11	0	-						-			
5	1,2,3,6,7,8-HxCDF	374	-	0	-	0	-0.038918		-0.004	-0.038918	-		1.094648	-
		376	38.25	0	-						-			
6	2,3,4,6,7,8-HxCDF	374	-	0	-	0	-0.036208		-0.004	-0.036208	-		1.176583	-
		376	38.89	0	-						-			
7	1,2,3,7,8,9-HxCDF	374	-	0	-	0	-0.038823		-0.004	-0.038823	-		1.097314	-
		376	39.70	0	-						-			
8	1,2,3,4,6,7,8-HpCDF	408	-	0	-	0	-0.104766		-0.001	-0.104766	-		1.208867	-
		410	41.43	0	-						-			
9	1,2,3,4,7,8,9-HpCDF	408	-	0	-	0	-0.107556		-0.001	-0.107556	-		1.177018	-
		410	42.71	0	-						-			
10	OCDF	442	45.50	303	0.88	650	-0.143023		0.000	-0.143023	*		1.239902	-
		444	45.41	347	no						*			
11	2,3,7,8-TCDD	320	-	0	-	0	-0.112375		-0.112	-0.112375	-		1.240957	-
		322	25.73	0	-						-			
12	1,2,3,7,8-PeCDD	358	-	0	-	0	-0.099898		-0.050	-0.099898	-		1.116262	-
		358	34.31	0	-						-			
13	1,2,3,4,7,8-HxCDD	390	-	0	-	0	-0.099852		-0.010	-0.099852	-		1.111453	-
		392	39.05	0	-						-			
14	1,2,3,6,7,8-HxCDD	390	-	0	-	0	-0.099121		-0.010	-0.099121	-		1.119648	-
		392	39.17	0	-						-			
15	1,2,3,7,8,9-HxCDD	390	39.54	859	2.08	1274	-0.09932		-0.010	-0.099323	*		1.117372	-
		392	39.50	414	no						*			
16	1,2,3,4,6,7,8-HpCDD	424	42.42	3531	0.95	7256	0.5384		0.005	-0.118057	12	xl	1.084762	-
		426	42.36	3725	OK						12			
17	OCDD	458	45.36	28854	0.86	62245	7.490398		0.007	-0.142687	136		1.054514	-
		460	45.29	33391	yes						145			
18	13C-2,3,7,8-TCDF	316	24.62	2773671	0.78	6314158	1472.346			0.622	4797		2.144584	74
		318	24.57	3540488	yes						11151			
19	13C-1,2,3,7,8-PeCDF	352	31.96	2839090	1.59	4627537	1467.076			0.955	4577		1.577374	73
		354	31.89	1788447	yes						2338			
20	13C-2,3,4,7,8-PeCDF	352	33.63	3285716	1.61	5332092	1737.847			0.982	6728		1.534347	87
		354	33.57	2046376	yes						3433			
21	13C-1,2,3,4,7,8-HxCDF	384	38.11	1396427	0.53	4012649	1484.778			1.134	3168		1.832773	74
		386	38.09	2616223	yes						4704			
22	13C-1,2,3,6,7,8-HxCDF	384	38.24	1556472	0.52	4545201	1561.924			1.053	3273		1.435092	78
		386	38.20	2988729	yes						4792			
23	13C-2,3,4,6,7,8-HxCDF	384	38.91	1482160	0.53	4301193	1584.47			1.129	3209		1.338387	79
		386	38.87	2819033	yes						4758			
24	13C-1,2,3,7,8,9-HxCDF	384	39.74	1374158	0.55	3890855	1533.779			1.208	2931		1.251033	77
		386	39.69	2516698	yes						4300			
25	13C-1,2,3,4,6,7,8-HpCDF	418	41.46	955459	0.44	3133149	1220.142			0.762	3268		1.266359	61
		420	41.41	2177690	yes						7889			
26	13C-1,2,3,4,7,8,9-HpCDF	418	42.75	886495	0.41	3057788	1418.247			0.907	2730		1.063266	71
		420	42.71	2171293	yes						6718			
27	13C-2,3,7,8-TCDD	332	25.67	1646544	0.82	3661393	1579.739			0.834	3904		1.159041	79
		334	25.70	2014849	yes						7703			
28	13C-1,2,3,7,8-PeCDD	368	34.36	1908340	1.63	3077487	1873.287			0.633	10358		0.821541	94
		370	34.29	1169147	yes						7603			
29	13C-1,2,3,4,7,8-HxCDD	402	39.10	1752599	1.34	3058222	1655.828			1.543	3345		0.910836	83
		404	39.06	1305623	yes						3642			
30	13C-1,2,3,6,7,8-HxCDD	402	39.19	1907810	1.21	3489662	1808.198			1.477	3497		0.951752	90
		404	39.15	1581852	yes						3824			
31	13C-1,2,3,4,6,7,8-HpCDD	436	42.40	1337636	1.17	2481036	1299.514			1.227	3042		0.941539	65
		438	42.36	1143400	yes						3992			
32	13C-OCDD	470	45.35	1574871	1	3148537	2057.726			0.674	6964		0.754584	51
		472	45.29	1573666	yes						8431			
33	13C-1,2,3,4-TCDD	332	25.38	1801685	0.82	3999378	80.282			0.042	4514		46352.42	4
		334	25.34	2197693	yes						8825			
34	13C-1,2,3,7,8,9-HxCDD	402	39.53	2285858	1.29	4055492	76.289			0.054	4107		53159.29	4
		404	39.49	1769634	yes						4459			
35	137-2,3,7,8-TCDD	328	25.70	500436	1	1000873	198.781			0.156	3683		2.517916	99
		328	25.62	500436	yes						3683			
36	Totals Tetra-Furans	304	-	0	-	0	-0.124976		0	-0.124976	-		0.97161	-
		306	26.00	0	-						-			
37	Totals Tetra-Dioxins	320	-	0	-	0	0.163814		1	-0.112375	-		1.240957	-
		322	26.00	0	-						-			
38	Totals Penta-Furans	340	-	0	-	0	-0.089219		0	-0.089219	-		1.034611	-

		342	34.00	0	-							
39	Totals Penta-Dioxins	356	-	0	-	0	-0.099898	0	-0.099898	-	1.116262	-
		358	34.00	0	-							
40	Totals Hexa-Furans	374	-	0	-	0	-0.037633	0	-0.037633	-	1.132007	-
		376	39.50	0	-							
41	Totals Hexa-Dioxins	390	-	0	-	0	0.469385	2	-0.100146	-	1.108192	-
		392	39.50	0	-							
42	Totals Hepta-Furans	408	-	0	-	0	-0.106148	0	-0.106143	-	1.192692	-
		410	42.50	0	-							
43	Totals Hepta-Dioxins	424	-	0	-	0	1.645253	2	-0.118057	-	1.084762	-
		426	42.50	0	-							

Totals Compound 36: Totals Tetra-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
36	Totals Tetra-Furans	304	25.42	1049	1.96	1584	0.051641	2		0.97161	-
		306	26.00	536	no			1			

Totals Compound 37: Totals Tetra-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
37	Totals Tetra-Dioxins	320	24.00	1682	0.82	3726	0.169814	4		1.240957	-
		322	26.00	2044	yes			4			
37	Totals Tetra-Dioxins	320	24.62	2300	6.81	2638	0.115968	7		1.240957	-
		322	26.00	338	no			1			

Totals Compound 38: Totals Penta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 39: Totals Penta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 40: Totals Hexa-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 41: Totals Hexa-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
41	Totals Hexa-Dioxins	390	37.54	3568	1.4	6124	0.337543	8		1.108192	-
		392	39.50	2596	yes			7			
41	Totals Hexa-Dioxins	390	38.11	-1946.8	1.24	-3516.8	-0.19384	13	xL	1.108192	-
		392	39.50	-1570	OK			4			
41	Totals Hexa-Dioxins	390	38.23	-1962.92	1.24	-3545.92	-0.19544	12	xL	1.108192	-
		392	39.50	-1583	OK			5			
41	Totals Hexa-Dioxins	390	38.45	1324	1.24	2392	0.131842	3		1.108192	-
		392	39.50	1068	yes			3			
41	Totals Hexa-Dioxins	390	38.91	-3387.68	1.24	-6119.68	-0.33731	27	xL	1.108192	-
		392	39.50	-2732	OK			10			
15	1,2,3,7,8,9-HeCDD	390	39.54	859	2.08	1274	0.069644	2		1.093474	-
		392	39.50	414	no			2			
41	Totals Hexa-Dioxins	390	39.74	-1532.64	1.24	-2768.64	-0.1526	11	xL	1.108192	-
		392	39.50	-1236	OK			3			

Totals Compound 42: Totals Hepta-Furans

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
No peaks found for this compound											

Totals Compound 43: Totals Hepta-Dioxins

#	Name	Trace	RT	Area	Ion Ratio	Abs.Resp	pg	S/N	Mod.User	RRF Mean	%Rec
43	Totals Hepta-Dioxins	424	41.46	10986	2.72	15020	1.114493	37		1.084762	-
		426	42.50	4034	no			14			
43	Totals Hepta-Dioxins	424	41.76	7892	1.01	15667	1.162501	26		1.084762	-
		426	42.50	7775	yes			28			
16	1,2,3,4,6,7,8-HpCDD	424	42.42	3531	0.95	7256	0.5384	12	xL	1.084762	-
		426	42.36	3725	OK			12			
43	Totals Hepta-Dioxins	424	42.75	11464	3.44	14799	1.098095	34		1.084762	-
		426	42.50	3335	no			11			

Quantity Sample Report

Sample Id: C:\MSSTXN\Default-pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSSTXN\Default-pro\METHOD\M3211210A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

36: Totale Tetra-Furans

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

M3211210A10 Sm (SG, 2x2)

1: Voltage S1R 11 Channels EI+

25.42 1049 303.9016 1.45e4 Area

%

M3211210A10 Sm (SG, 2x2)

1: Voltage S1R 11 Channels EI+

25.41 536 305.8987 8.53e3 Area

%

M3211210A10 Sm (SG, 2x2)

1: Voltage S1R 11 Channels EI+

24.62 315.9419 3.20e7

%

M3211210A10 Sm (SG, 2x2)

1: Voltage S1R 11 Channels EI+

24.62 317.9389 4.07e7

%

21.00 22.00 23.00 24.00 25.00 26.00 27.00

Time

(Handwritten circle with a diagonal line through it)

7.703

Quantity Sample Report

Sample List: C:\MASSLUX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLUX\Default.pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

37: Totals Tetra-Dioxins

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

1: Voltage SIR 11 Channels EI+

319.8965

3.42e4

Area

1.11e5

M3211210A10 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

321.8936

2.88e4

Area

1.49e5

M3211210A10 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

331.9368

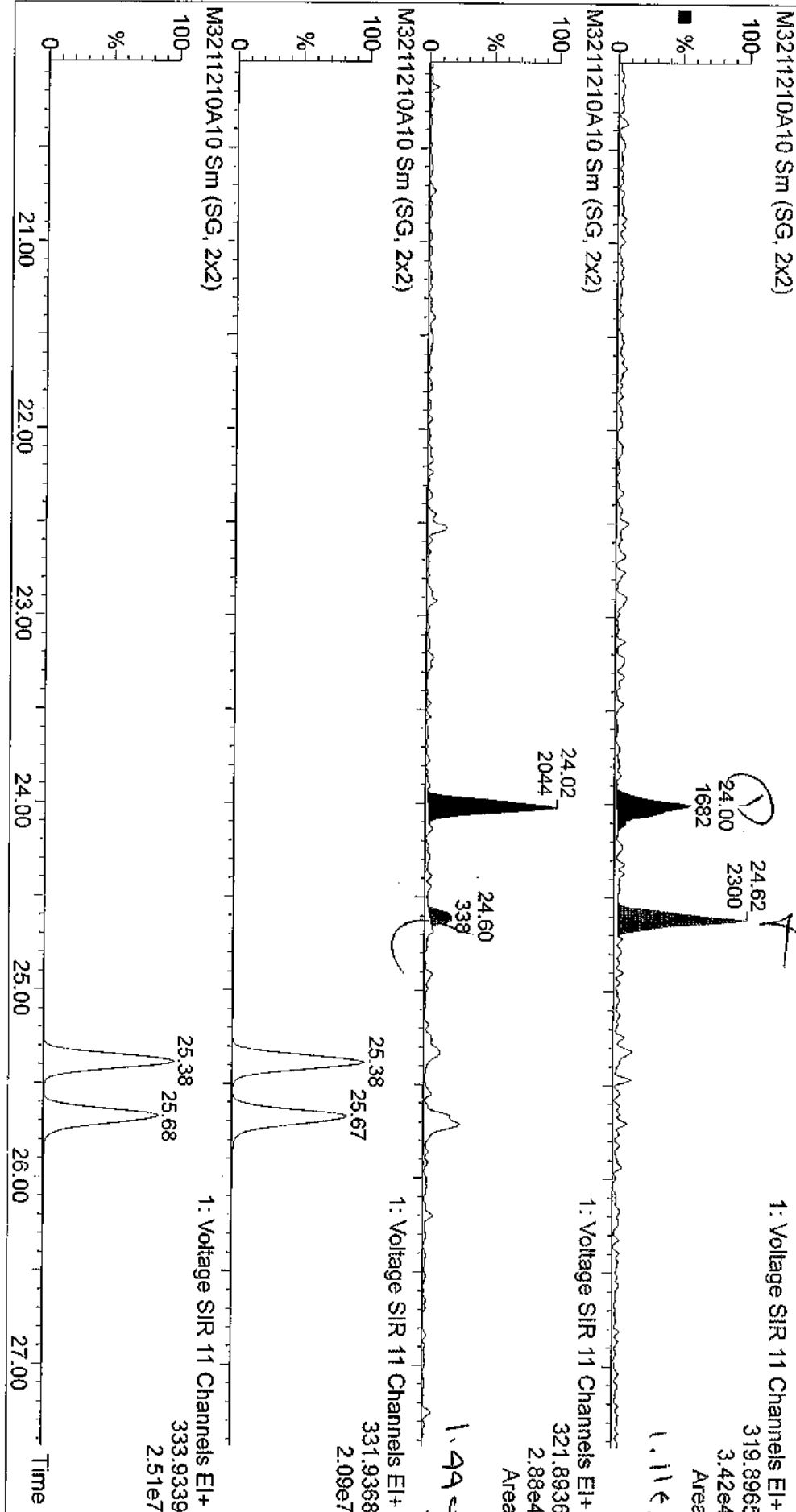
2.09e7

M3211210A10 Sm (SG, 2x2)

1: Voltage SIR 11 Channels EI+

333.9339

2.51e7



7

4.86e3

Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

35: C137-2,3,7,8-TCDD

REZ818-01R

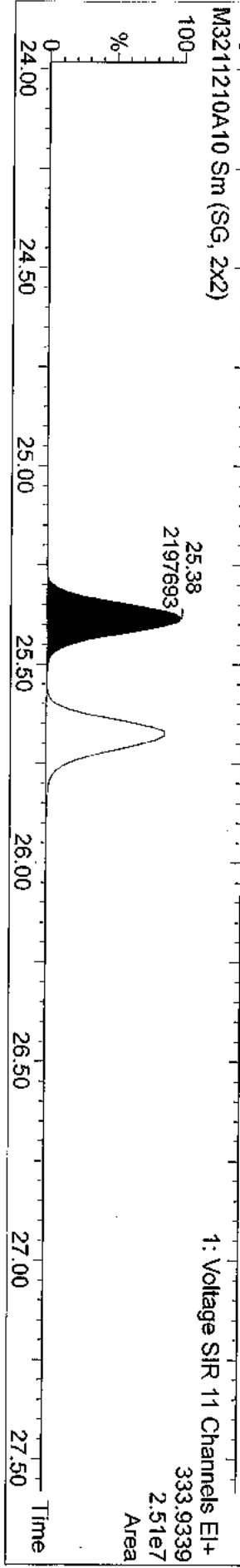
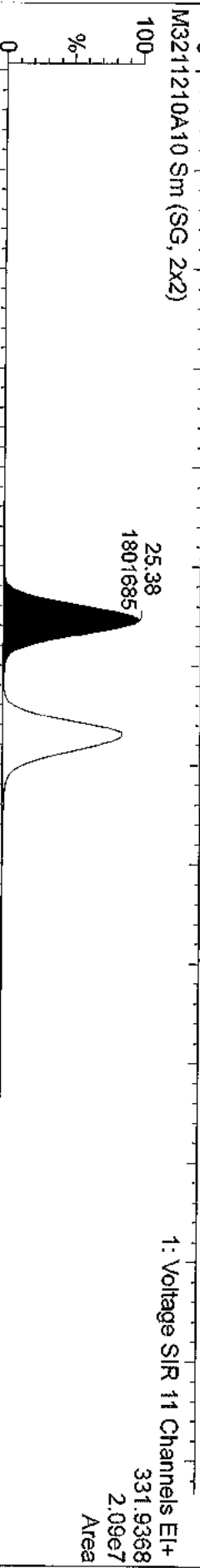
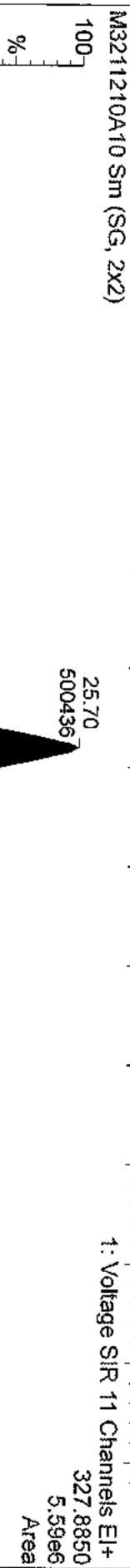
7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41



Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSSTYX\Default.pro\METHOD\M3211217A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
Text: REZ818-01R

38: Hexa DPE

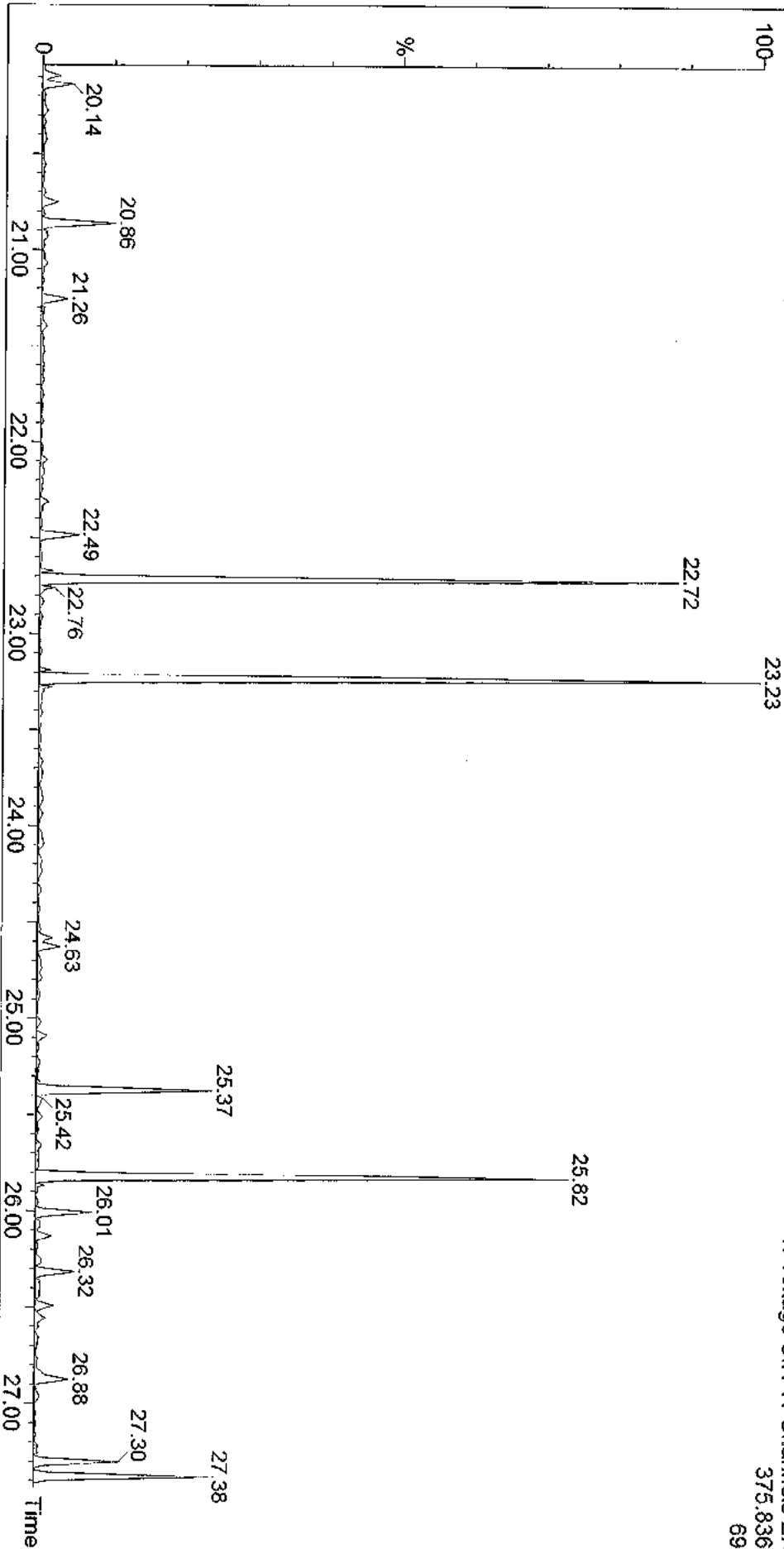
REZ818-01R
7716247: APEX_PDI-CORE-04-B-06*, S
M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

1: Voltage SIR 11 Channels EI+
375.8364
697



Quantify Sample Report

Sample List: C:\MASSVIEW\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSVIEW\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

39: Function 1 Lockmass

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06+, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

1: Voltage SIR 11 Channels EI+

26.28 26.83 27.22 316.9824

4.08e6

100 20.40 20.99 21.21 21.32 21.87 22.33 22.42 22.63 23.09 23.51 23.92 24.38 24.62

25.49 25.71

%

21.00 22.00 23.00 24.00 25.00 26.00 27.00 Time

Quantify Sample Report

Sample list: C:\MASSLYNX\Default.pro\SAMPLEDIR\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

40: Totals Penta-Furans

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

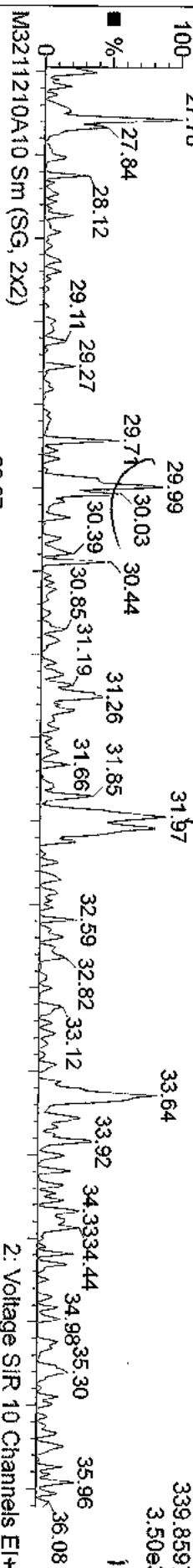
Autospec Ultima - M536

11-Dec-2021

03:07:41

M3211210A10 Sm (SG, 2x2)

2: Voltage SIR 10 Channels EI+



Quantify Sample Report

Sample list: C:\MASSLTX\Default.pro\SAMPLEDB\M3211210A_1613
 Test modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

41: Totals Penta-Dioxins

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

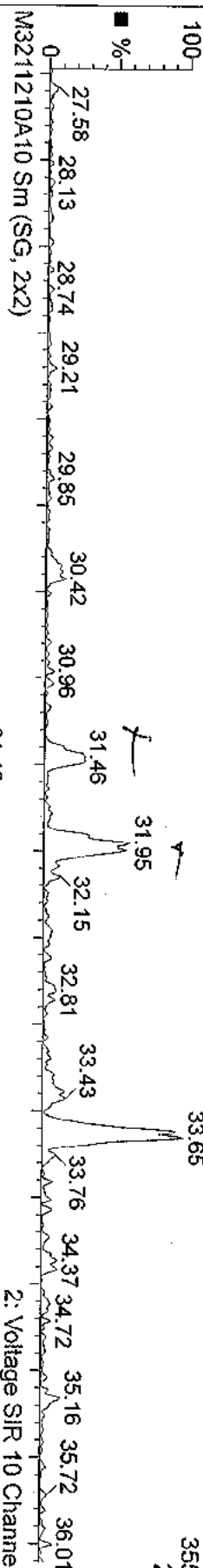
03:07:41

2: Voltage S/R 10 Channels EI+

355.8546

2.33e4

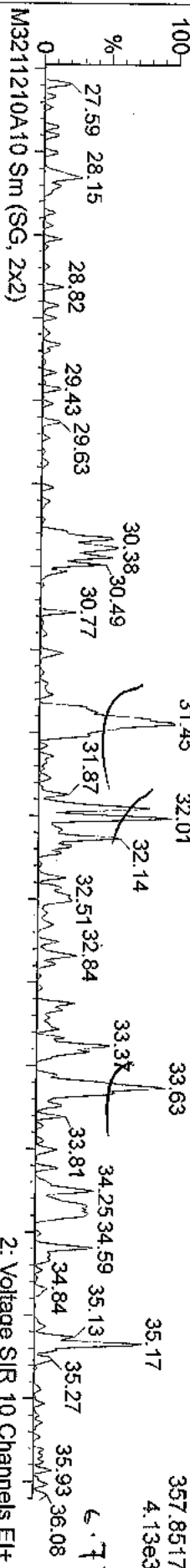
1.05e3



2: Voltage S/R 10 Channels EI+

357.8517

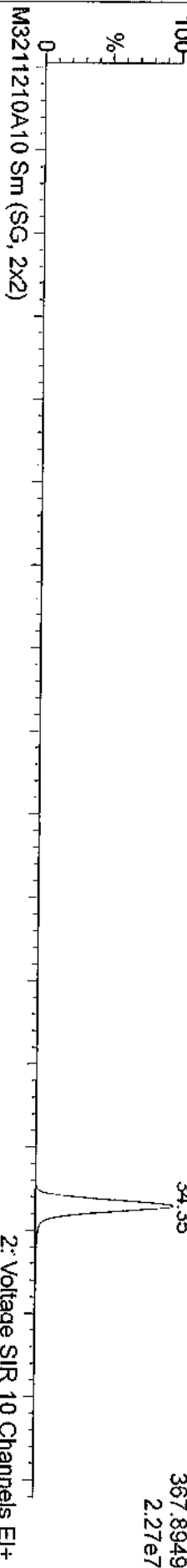
4.13e3



2: Voltage S/R 10 Channels EI+

367.8949

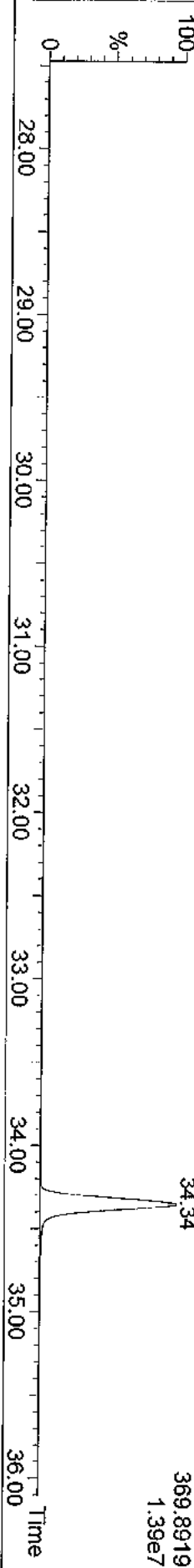
2.27e7



2: Voltage S/R 10 Channels EI+

369.8919

1.39e7



Quantify Sample Report

Sample Id: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MSDCHEM\Default.pro\METHOD\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

42: Hepta DPE

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S
 M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

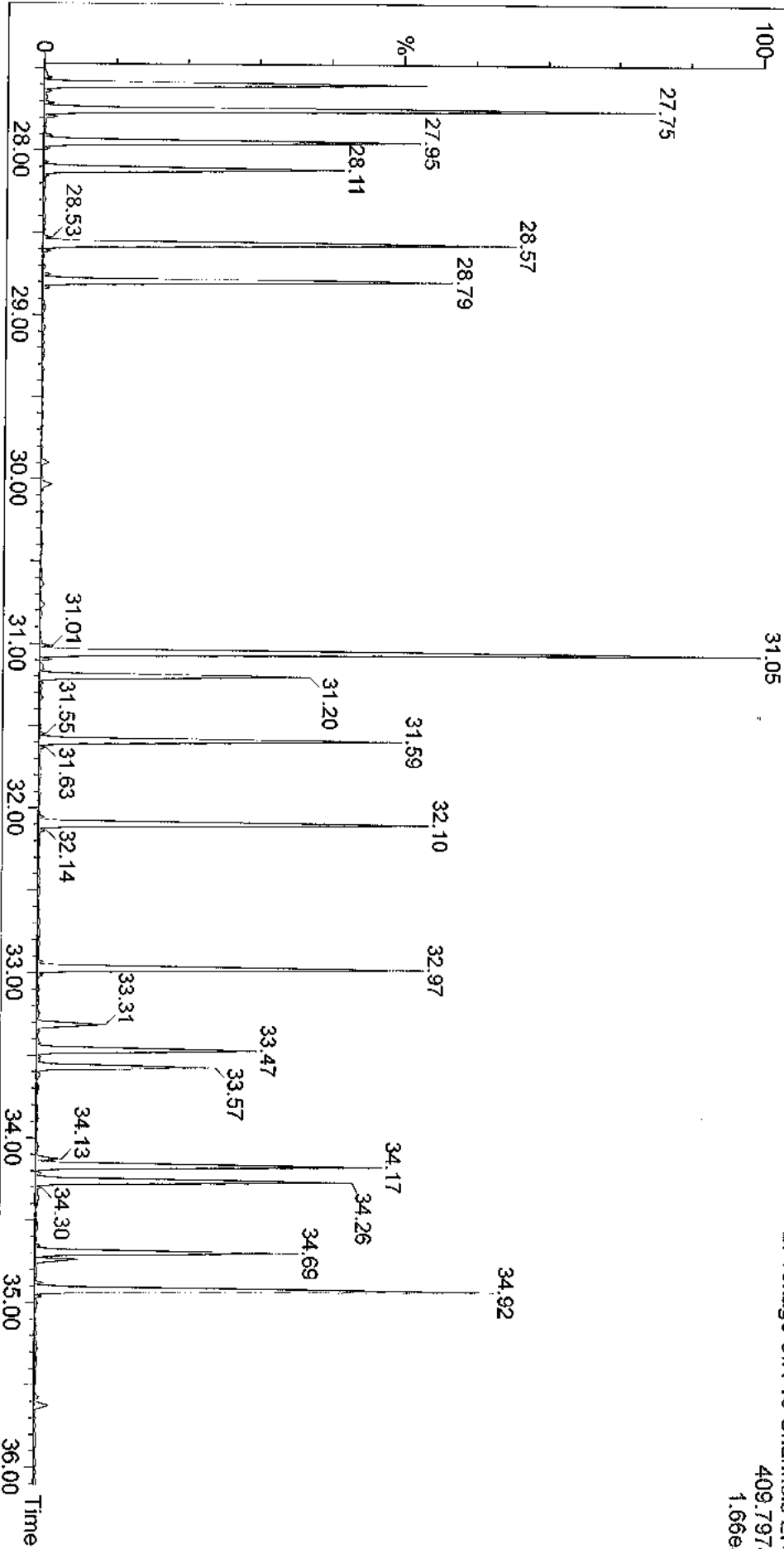
11-Dec-2021

03:07:41

2: Voltage SIF 10 Channels EI+

409.7974

1.66e3



Quantity Sample Report

Sample Desc: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211127A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

43: Function 2 Lockmass

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

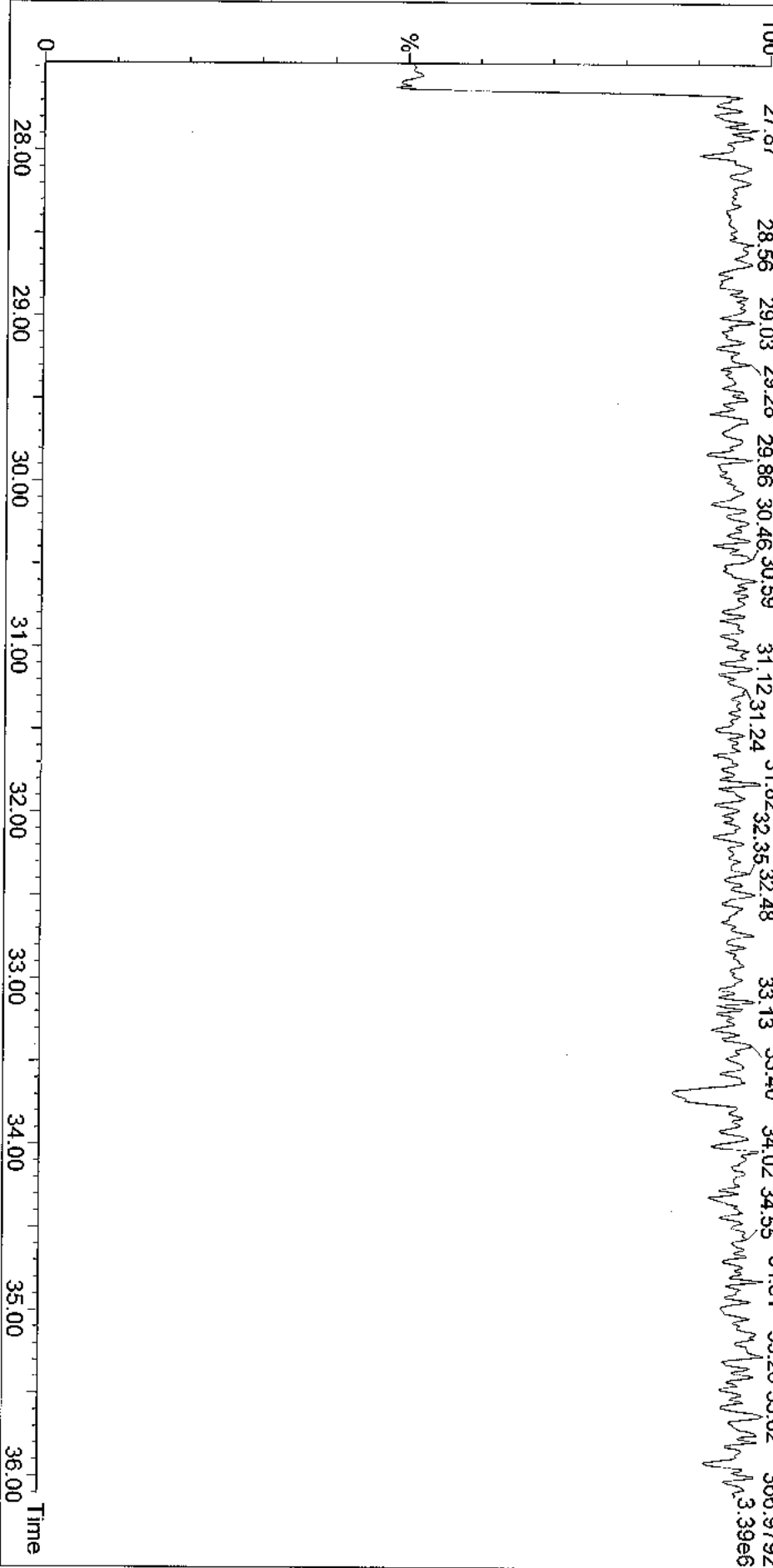
AutoSpec Ultima - M536

11-Dec-2021

03:07:41

2: Voltage SIR 10 Channels EI+

100 27.87 28.56 29.03 29.28 29.86 30.46 30.59 31.12 31.24 31.82 32.35 32.48 33.13 33.40 34.02 34.55 34.81 35.26 35.62 366.9792 3.39e6



Quantify Sample Report

Sample List: C:\MASSLYNX\Default-pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default-pro\METHOD\M3211210A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

44: Totals Hexa-Furans

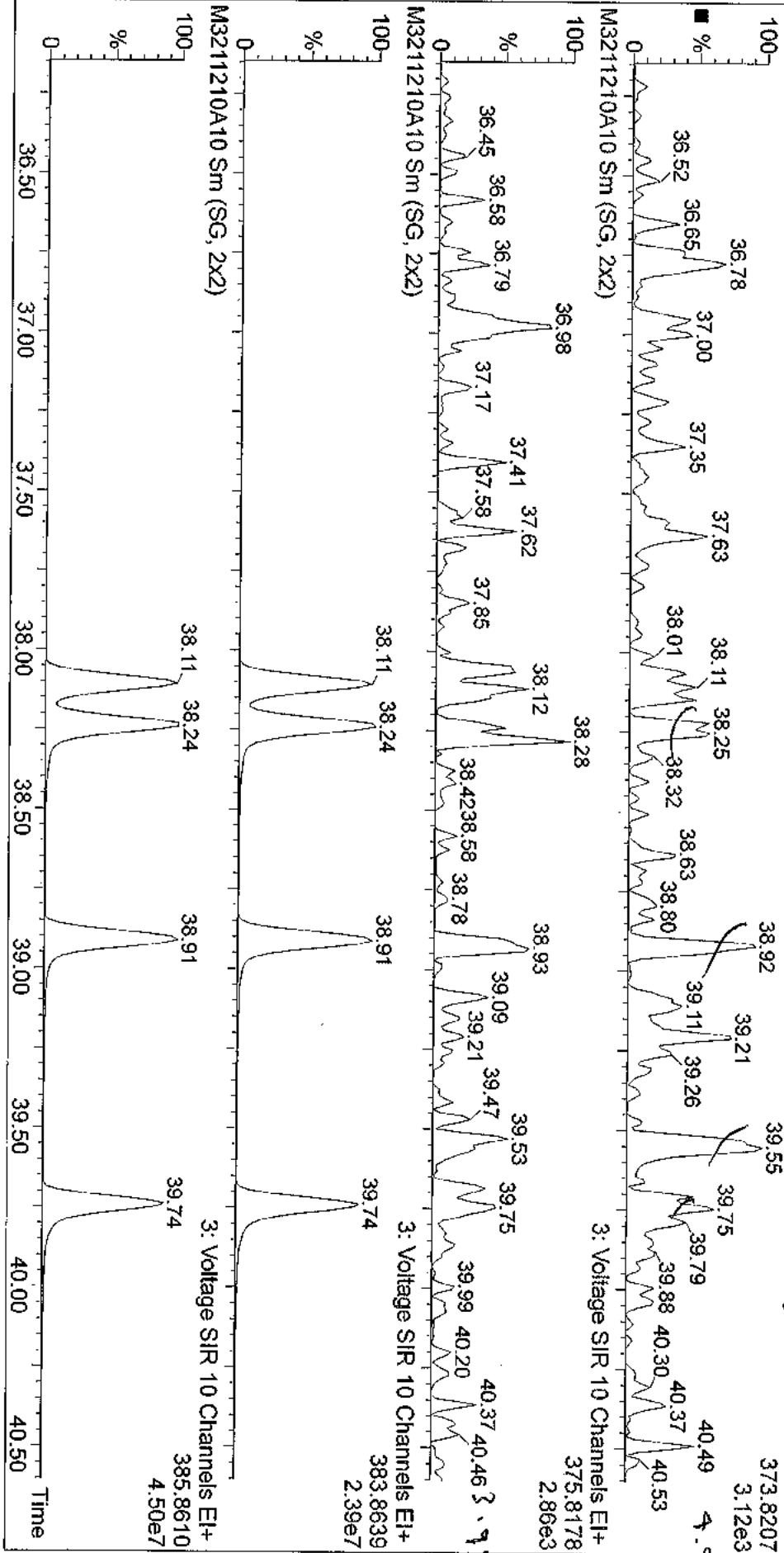
REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

AutoSpec Ultima - M536

11-Dec-2021

03:07:41



②

683716 of 729

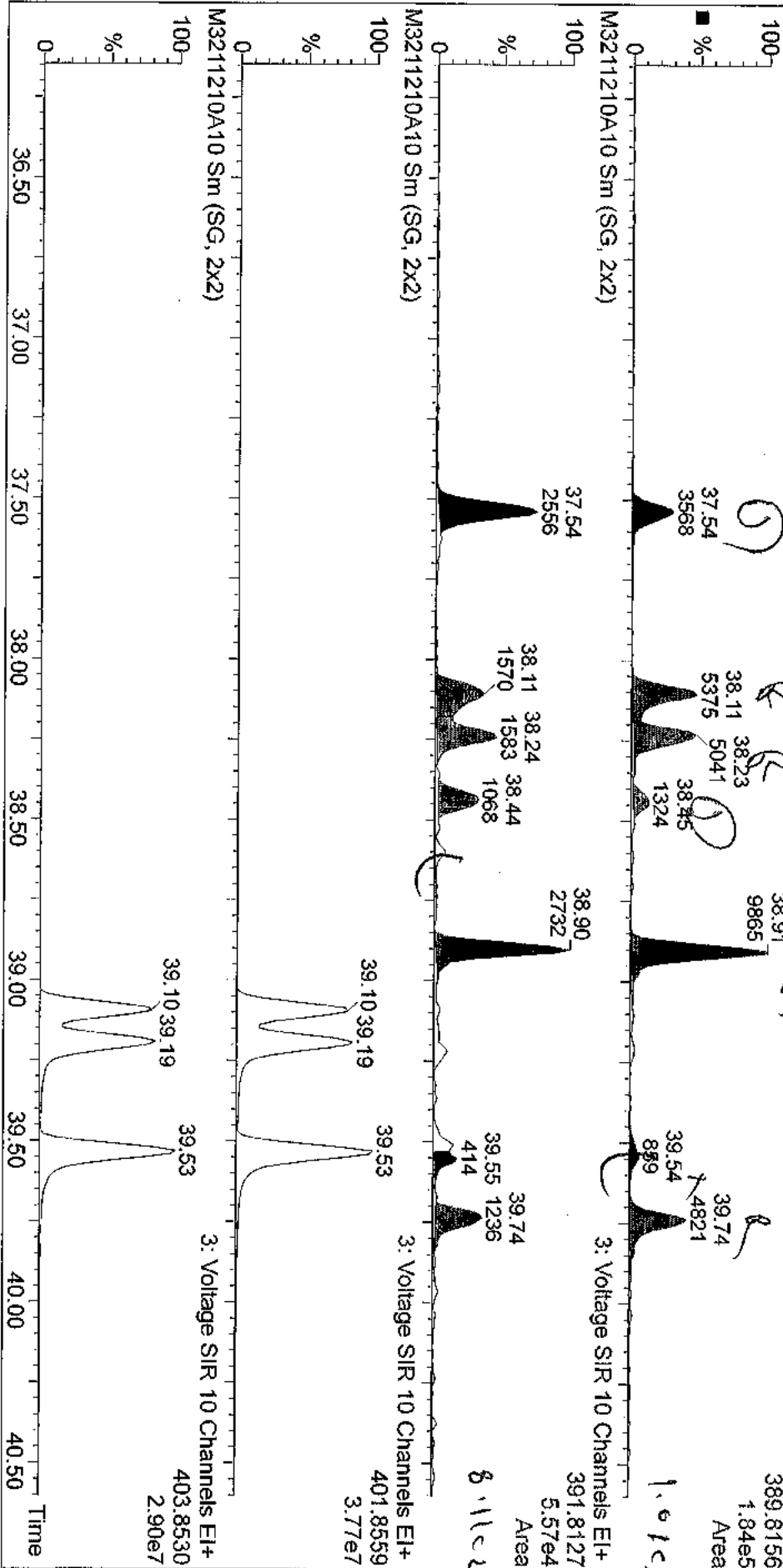
16 of 729

REZ818-01R

11-Dec-2021

03:07:41

3: Voltage SIF 10 Channels EI+



Quantify Sample Report

Sample List: C:\MSSTYX\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSSTYX\Default.pro\METHOD\M3211210A_HC_1613
Last modified: Mon Nov 29 13:06:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
Text: REZ818-01R

46: Octa DBE

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

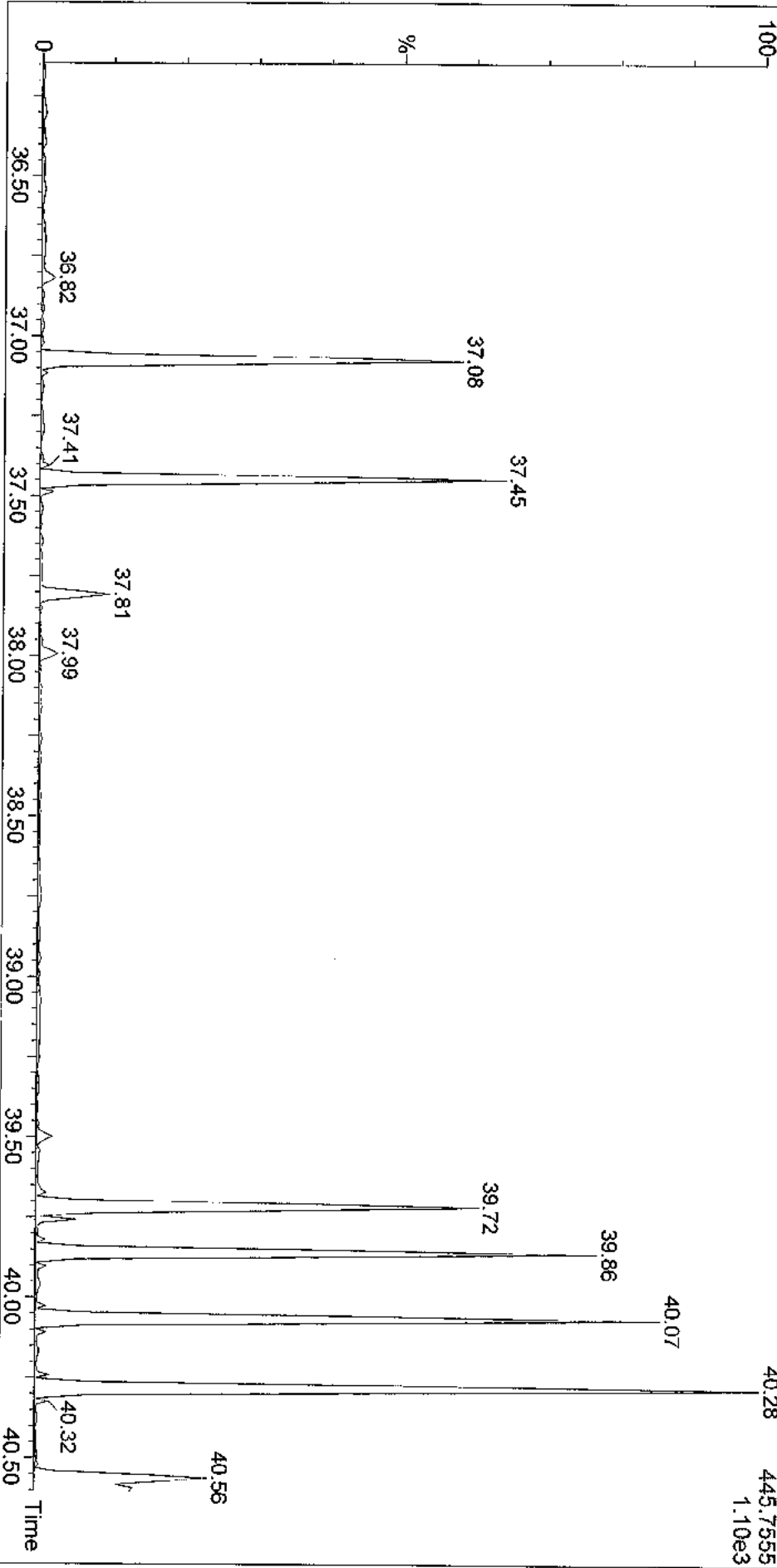
11-Dec-2021

03:07:41

3: Voltage S/R 10 Channels EI+

40.28 445.7555

1.10e3



Quantify Sample Report

Sample List: C:\MASSLYNX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNX\Default.pro\METHOD\M3211210A_EC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

47: Function 3 Lockmass

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

3: Voltage SIR 10 Channels EI+

39.88 40.14 40.33 380.9760

1.62e7

100 36.34 36.82 37.17 38.48 38.72 39.03 39.18



Quantity Sample Report

Sample List: C:\MASSLTX\Default-pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLTX\Default-pro\METHODS\M321127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

48: Totals Hepta-Furans

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06+, S

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

M3211210A10 Sm (SG, 2x2)

4: Voltage S1R 10 Channels EI+

407.7818

7.18e3

1.0e9

M3211210A10 Sm (SG, 2x2)

4: Voltage S1R 10 Channels EI+

409.7788

6.57e3

9.62e4

M3211210A10 Sm (SG, 2x2)

4: Voltage S1R 10 Channels EI+

417.8253

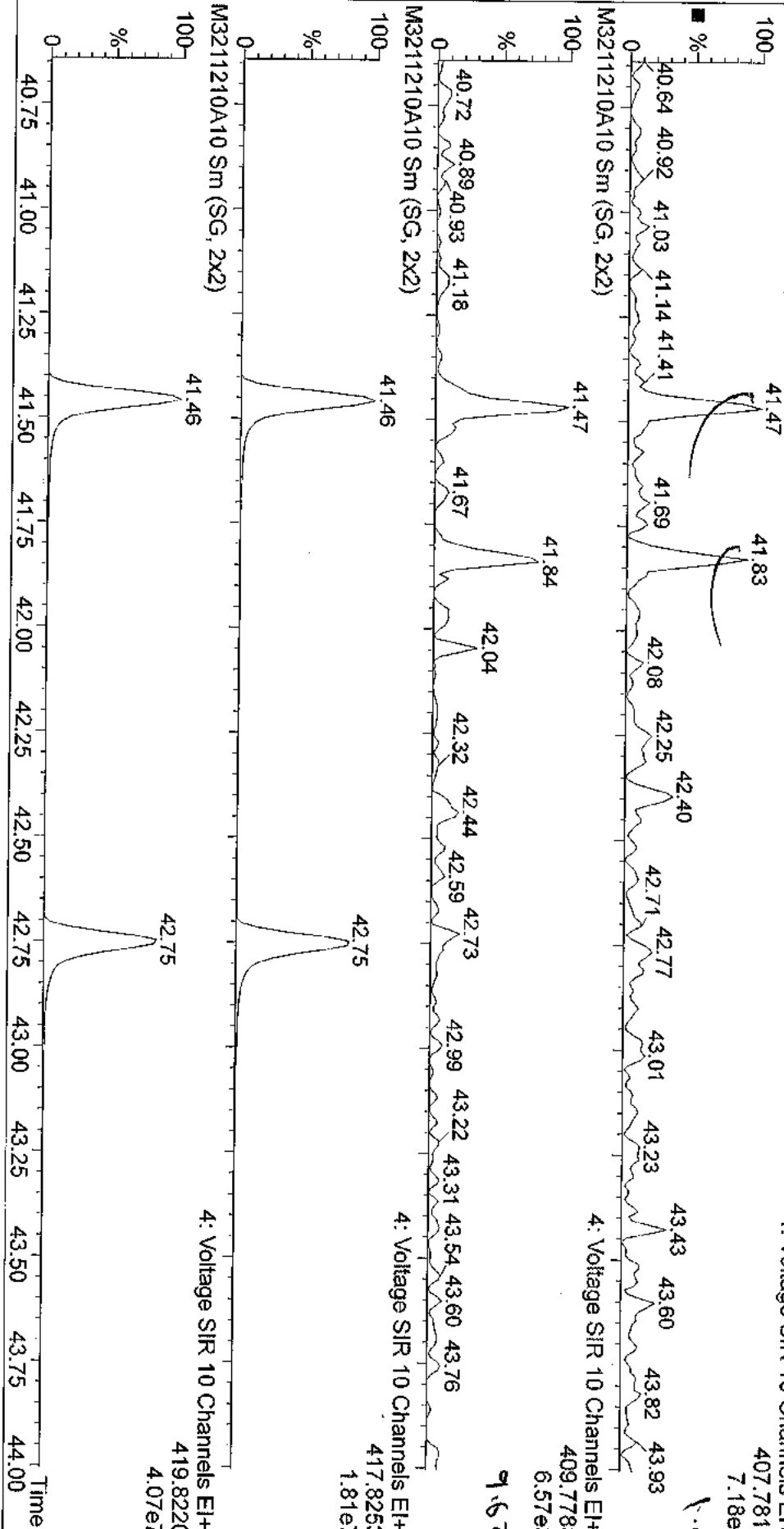
1.81e7

M3211210A10 Sm (SG, 2x2)

4: Voltage S1R 10 Channels EI+

419.8220

4.07e7



Quantify Sample Report

Sample List: C:\MASSLYNK\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLYNK\Default.pro\METHOD\M321127A_FC_1613
 Last modified: Mon Nov 29 23:04:11 2021
 Job Code:
 Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

49: Totals Hepta-Dioxins

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

4: Voltage SIR 10 Channels EI+

423.7767

2.05e5

Area

2.11e4

M3211210A10 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

425.7737

1.50e5

Area

7.8e4

M3211210A10 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

435.8169

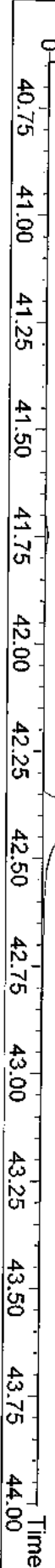
2.28e7

M3211210A10 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

437.8140

2.10e7



Quantify Sample Report

Sample List: C:\MASSL\N\Default.pro\SAMPLES\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSL\N\Default.pro\METHODS\M3211210A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: RE2818-01R

50: Nova DRE

RE2818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

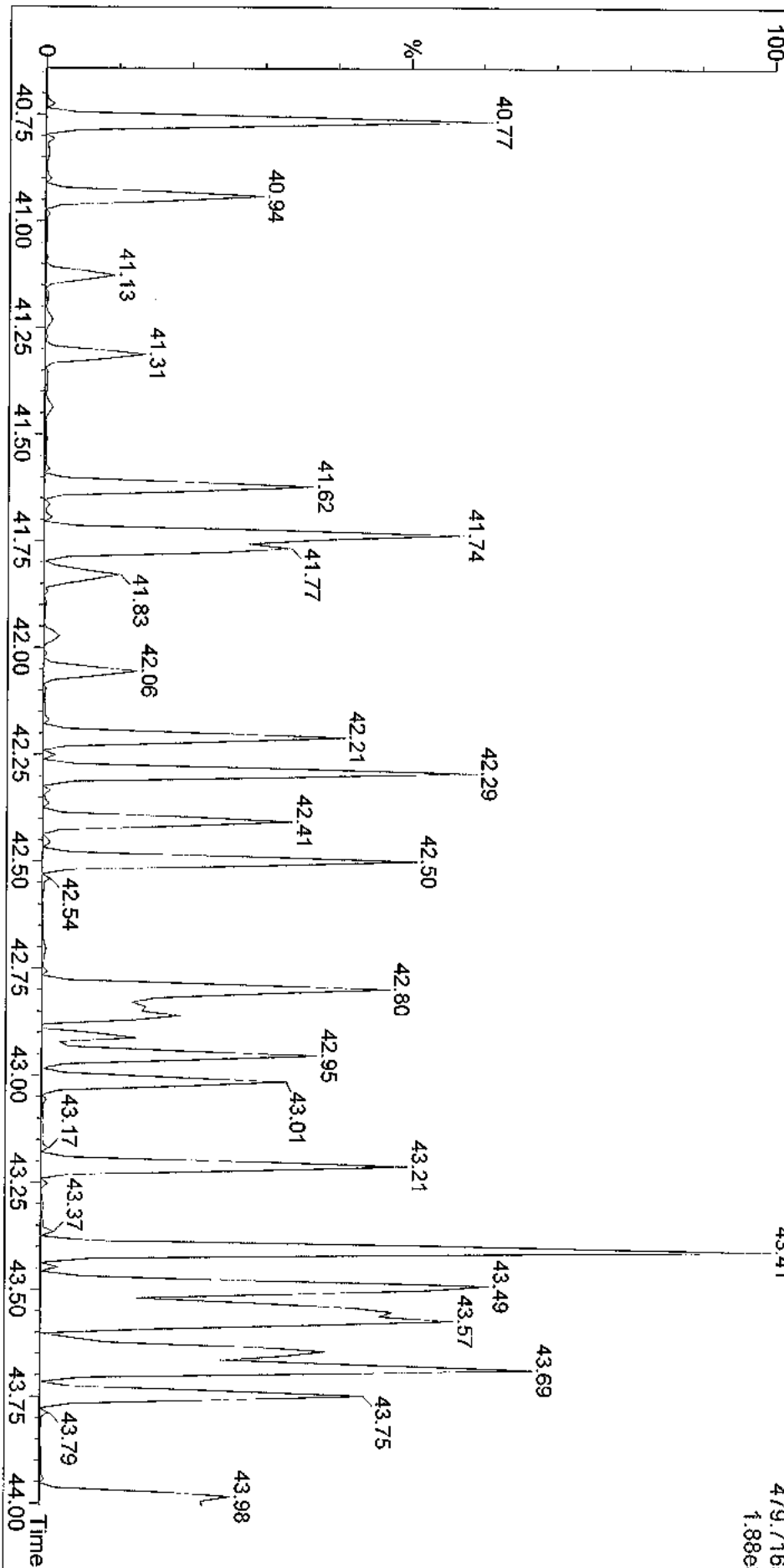
M3211210A10 Sm (SG, 2X2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

4: Voltage SIR 10 Channels EI+
 479.7165
 1.88e3



Quantify Sample Report

Sample List: C:\MSDCHEM\Default.pro\SAMPLEDB\M3211210A_1613
Test modified: Sat Dec 11 09:40:52 2021
Method: C:\MSDCHEM\Default.pro\METHOD\M321127A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
Text: REZ818-01R

SI: Function 4 Lockmass

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

100

40.84

4: Voltage SIF 10 Channels EI+

430.9728

9.53e6

40.77

%

40.75 41.00 41.25 41.50 41.75 42.00 42.25 42.50 42.75 43.00 43.25 43.50 43.75 44.00 Time

Quantity Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211210A_1613
 Last modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLTX\Default.pro\METHODS\M3211127A_HC_1613
 Last modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: REZ818-01R

10: ODF

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

5: Voltage SIF 8 Channels EI+

441.7428

5.11e3

Area

M3211210A10 Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

443.7398

6.06e3

Area

M3211210A10 Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

469.7780

2.06e7

Area

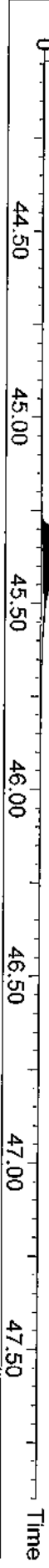
M3211210A10 Sm (SG, 2x2)

5: Voltage SIF 8 Channels EI+

471.7750

2.25e7

Area



Quantity Sample Report

Sample List: C:\MASSLTX\Default.pro\SAMPLEDB\M3211210A_1613
 Last Modified: Sat Dec 11 09:40:52 2021
 Method: C:\MASSLTX\Default.pro\METHOD\M321121A_HC_1613
 Last Modified: Mon Nov 29 13:04:11 2021
 Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
 Text: RE2818-01R

17: OGD

RE2818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

5: Voltage SIR 8 Channels EI+

457.7377

3.95e5

Area

5.53e2

M3211210A10 Sm (SG, 2x2)

45.36

33391

5: Voltage SIR 8 Channels EI+

459.7348

4.74e5

Area

5.22e1

M3211210A10 Sm (SG, 2x2)

45.35

1574871

5: Voltage SIR 8 Channels EI+

469.7780

2.06e7

Area

M3211210A10 Sm (SG, 2x2)

45.35

1573666

5: Voltage SIR 8 Channels EI+

471.7750

2.25e7

Area

Time

Quantity Sample Report

Sample list: C:\MASSVIEW\Default-pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MASSVIEW\Default-pro\METHOD\M3211217A_HC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
Text: RE2818-01R

52: Decca DPE

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2X2)

AutoSpec Ultima - M536

11-Dec-2021

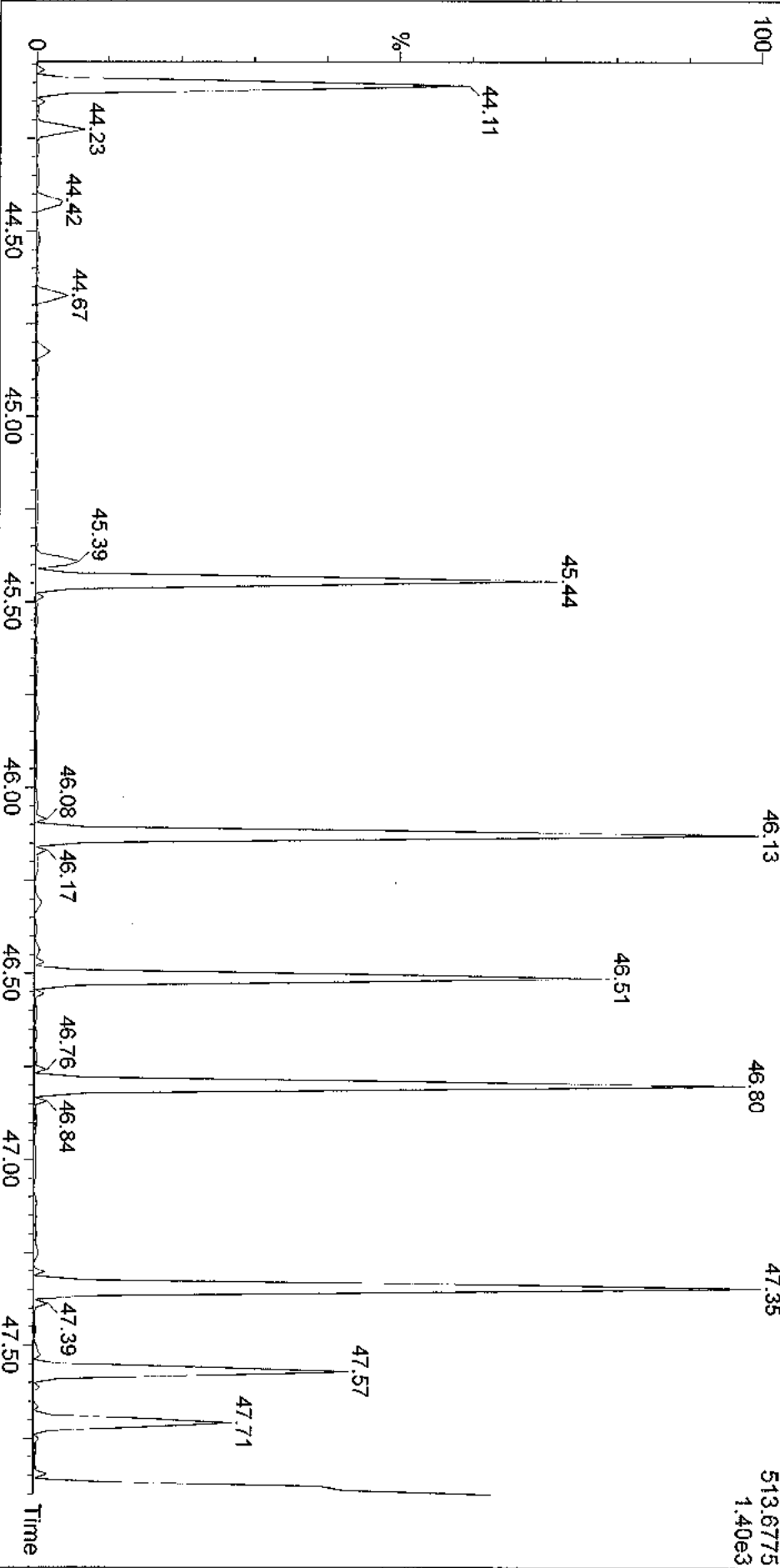
03:07:41

5: Voltage SIF 8 Channels EI+

47.35

513.6775

1.40e3



Quantity Sample Report

Sample list: C:\MSSTX\Default.pro\SAMPLEDB\M3211210A_1613
Last modified: Sat Dec 11 09:40:52 2021
Method: C:\MSSTX\Default.pro\METHOD\M3211217A_EC_1613
Last modified: Mon Nov 29 13:04:11 2021
Job Code:

Printed: Sat Dec 11 09:43:44 2021

Name: M3211210A10
Text: REZ818-01R

53: Function 5 Lockmass

REZ818-01R

7716247: APEX_PDI-CORE-04-B-06*, S

M3211210A10 Sm (SG, 2x2)

AutoSpec Ultima - M536

11-Dec-2021

03:07:41

5: Voltage SIR 8 Channels EI+

44.61 44.74 44.89

45.95

46.26

46.47

46.99

454.9728

8.01e6

0 44.50 45.00 45.50 46.00 46.50 47.00 47.50 Time

RE2818-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-06*, S

03:07:41

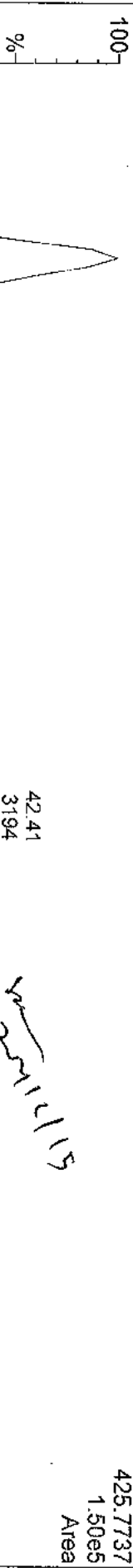
M3211210A10 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+



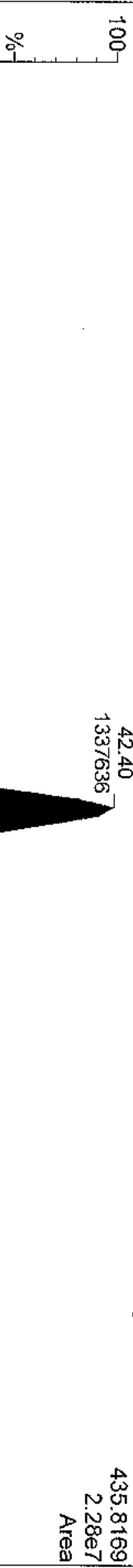
M3211210A10 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+



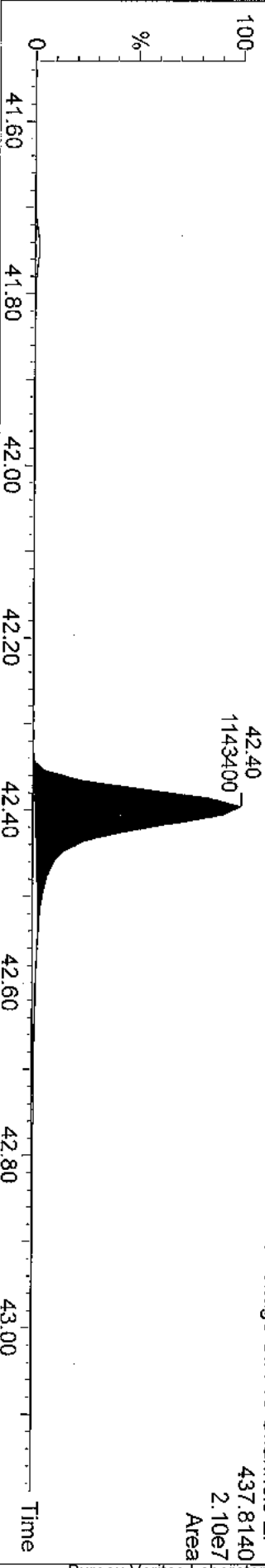
M3211210A10 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+



M3211210A10 Sm (SG, 2x2)

4: Voltage SIF 10 Channels EI+



REZ818-01R

AutoSpec Ultima - M536

11-Dec-2021

7716247: APEX_PDI-CORE-04-B-06*, S

03:07:41

M3211210A10 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

423.7767

2.05e5

Area

%

42.42
3531

M3211210A10 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

425.7737

1.50e5

Area

%

42.41
3725

Peak 12/15

M3211210A10 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

435.8169

2.28e7

Area

%

42.40
1337636

Peak 2/12/15

M3211210A10 Sm (SG, 2x2)

4: Voltage SIR 10 Channels EI+

437.8140

2.10e7

Area

%

42.40
1143400

Time



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**Bureau Veritas Canada (2019)
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1-800-668-0639
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