



908 North Temperance Ave. ▽ Clovis, CA 93611 ▽ Phone 559-275-2175 ▽ Fax 559-275-4422

Certification Number: CA1312
NELAP Certification number: CA00046
DoD-ELAP Certificate number: 4064.01

Data Validatable Report

March 21, 2022

AECOM
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813

Attn: Alethea Ramos

Title: Report of Data: Case 98566-rev4

Project: 60571032 CV18F0126 Red Hill Fuel Storage, HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126
Subcontract: 18S-22209-HI27

Dear Ms. Ramos:

One biphasic water sample was received December 23, 2021. Revised written results for the requested analyses are being provided on this March 21, 2022.

Revision: This revision has the correct units for 2MEE.

Revision 2: The location IDs for samples ERH2273 and ERH2274 were revised to reflect the revised COC and notes on the samples have been added.

Revision 3: The COC was replaced.

Revision 4: The COC was replaced with the correct COC. There is no sample location ID change from the original report.

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

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Loren Portwood, Laboratory Director
APPL, Inc.

LP/lac
Enclosure
cc: File

Data Validation Package
for
60571032 CV18F0126 Red Hill Fuel Storage
APPL SDG 98566

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CASE NARRATIVE

Case Narrative

ARF: 98566

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

One biphasic water sample was received December 23, 2021, at -3.7°C . The sample group was assigned Analytical Request Form (ARF) number 98566.

Sample Preparation and Analysis Information:

For the APPL SOP ANA2MEE product sample, the product phase of the sample was diluted and injected on the instrument

For the APPL SOP ANA2MEE water analysis, the water phase of the sample was extracted according to 2MEE SPE Method.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

APPL SOP ANA2MEE: In the 211223A LCS, 2MEE recovered above the upper control limit. 2MEE was not detected in the associated sample.

The product sample contained an extremely high level of hydrocarbon and required a dilution prior to injection, which diluted 2MEE below $\frac{1}{2}$ the LOD.

The majority of 2MEE transferred into the water layer of the sample, as 2MEE is hydrophilic.

Revised 04/04/22: A revised COC with an updated collection date was provided by the client.

qryCOC_APPLCaseNarrativeReport

SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Method Description
98566	12/23/2021	ERH2273	BA48188	12/21/2021 1:20:00 AM	MISC	EPA 8270D	EPA 8270D MODIFIED WATER
98566	12/23/2021	ERH2274	BA48198	12/21/2021 1:10:00 AM	WATER	EPA 8270D	EPA 8270D MODIFIED WATER

APPL Inc.
Abbreviations and Flags


FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
B	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
G12	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
G13	Closely resembles the hydrocarbon profile of aviation gasoline
G14	Analyte concentration may be biased due to carry over
G2	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G3	Includes higher boiling hydrocarbons
G4	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
M	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer.
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other – (See case narrative)
MDL	Method detection limit
ND	Not detected
NT	Non-target
Q	Acceptance criteria not met
T1 I	Includes wide range of hydrocarbons not indicative of diesel
T1 M	Is mainly wide range of hydrocarbons not necessarily indicative of diesel
T2 I	Includes lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, e.g. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, e.g. asphaltene, waste oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
T6	Is mainly a match to hydrocarbons within range of diesel fuel
T7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel
U	Not detected
Y	Percent difference between primary and confirmation column > 40%

**SAMPLE RECORDS MANAGEMENT
CHAIN OF CUSTODY,
ARF, CRF, AND
CLIENT COMMUNICATION**

APPL - Analysis Request Form

98566

Client: AECOM
 Address: 1001 Bishop Street, Suite 1600
Honolulu, HI 96813
 Attn: Alethea Ramos
 Phone: 808-954-4536 Fax: 808-523-8950
 Job: 60571032 CV18F0126 Red Hill Fuel Storage
 PO #: 18S-22209-HI27 PO# 102604
 Chain of Custody (Y/N): Y # 12222021-7
 RAD Screen (Y/N): Y pH (Y/N): N
 Turn Around Type: 24 HOURS

Received by: MSA 
 Date Received: 12/23/21 Time: 11:40
 Delivered by: FEDEX
 Shuttle Custody Seals (Y/N): Y Time Zone: -10
 Chest Temp(s): °C
 Color: A-Green
 Samples Chilled until Placed in Refrig/Freezer: Y
 Project Manager: Libby Cheesebor
 QC Report Type: DVP4DOD/EQUIS/HI
 Due Date: 12/24/21

Comments:

PM: login and F1s to Margie.Pascua@aecom.com & alethea.ramos@aecom.com
PM: For Drinking Water DOC, use \$5310CD.
AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database
Report MS/MSD/DUPs when AECOM sample used
Wetlab: EPA 300 (NO3, Br,F,CL,SO4). EPA 353.2 (TOXN).
8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.
TPH-D/O both with and w/o SGC, reverse surrog for SGC; analyze SGC if detections. DO NOT Q-DELETE.
RSK: Methane only; 8011: EDB only; \$87DC53W5: report phenol + TICs
FR: email ftp info to Margie, alethea.ramos@aecom.com, Stella, tromeifanger@lab-data.com & jcanlas



Sample Distribution:

GC: 1-\$87DMEEW5MG, 1-\$87DMEEW5
Extractions: 2- MWE2MEE

Charges:

Invoice To:

ACCOUNTS PAYABLE
1001 Bishop Street, Ste 1600
USAPImaging@aecom.com
mary.basano@aecom.com

Client ID	APPL ID	Sampled	Analyses Requested
1. ERH2273	BA48188M LCSD 	12/21/21 01:20	\$87DMEEW5MG -- See Comments
2. ERH2274	BA48198W LCSD 	12/21/21 01:10	\$87DMEEW5 -- See Comments

APPL Sample Receipt Form

ARF# 98566

Sample	Container Type	Count	p
BA48188	15 VOAs - NP	1	NA
	40 500mL Amber, unprsvd	1	NA
BA48198	15 VOAs - NP	1	NA
	40 500mL Amber, unprsvd	1	NA

Sample Container Type Count p

COOLER RECEIPT FORM

ARF: 98566

- 1) Project: 60571032 CV18F0126 Red Hill Fuel Storage Date Received: 12/23/2021
2) Coolers: Number of Coolers: 1
3) YES Were custody seals present and intact? How many? 2 Name/Date on seal? SEE BELOW
4) YES Was there a shipping slip? Carrier name: FEDEX
5) Type of packing in cooler: X bubble wrap popcorn foam X plastic bags other
X wet ice dry ice no ice gel ice
6) YES Were cooler temperatures acceptable?
7) Serial number of calibrated thermometer used: IRB CF:-3.7°C
8) Cooler temp(s): In °C. Thermometer Temp / Corrected Temp
1: 0.0/-3.7 2: 3: 4: 5: 6:
7: 8: 9: 10: 11: 12:

Chain of custody:

- 9) YES Was a chain of custody received?
10) YES Were the custody papers complete/signed in the appropriate places?

Sample Labels:

- 11) YES Were all sample labels complete (sample ID, date/time of sampling, etc.)?
12) YES Did all container labels agree with custody papers?

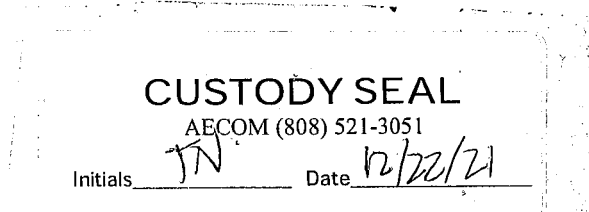
Sample Containers:

- 13) YES Were all containers sealed in separate bags?
14) YES Did all containers arrive in good condition:(unbroken, no leakage, no cracked/broken lids)?
15) YES Were correct containers and preservatives used for the tests indicated?
16) YES Was a sufficient amount of sample sent for tests indicated?
17) Yes Were bubbles present in volatile samples?
If yes, the following were received with air bubbles:
Larger than a pea: BA48188W W01
Smaller than a pea:

Preservation Hold time:

- 18) Yes Was a sufficient amount of holding time remaining to analyze the samples?
19) NA Was the pH taken of all non-VOA preserved samples and written on the sample container?
20) NA Was the pH of acid preserved non-VOA samples < 2?
21) NA Was the pH of the "basic" preserved samples for Cyanide > 12, Sulfide >9, Hexchrom >9?
22) NO Were unpreserved VOA Vials received for VOA Dept analysis?
23) NA If "yes", are the unpreserved VOA vials noted in the ADD TEST FIELD on the ARF?
pH strip lot number:
Lab notified if pH was not adequate:

Notes/Deficiencies:



Personnel receiving samples: CH Second reviewer:
Personnel labeling samples: CH
Project manager notified: CH Date/Time of notification 12/23/2021
Name of client notified: Date/Time of notification

SAMPLE RESULTS

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Alethea Ramos
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2273

Sample Collection Date: 12/21/21

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98566

APPL ID: BA48188

QCG: #87DME-211223A1-272565

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	80.0 U	100	80.0	40.0	ug/mL	12/23/21	12/23/21

Quant Method: MEE1222P.M
Run #: 1110Y156
Instrument: Yoda
Sequence: Y211110M
Dilution Factor: 1
Initials: MA

Printed: 1/13/2022 4:09:08 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

EPA 8270D MODIFIED WATER

AECOM
1001 Bishop Street, Suite 1600
Honolulu, HI 96813

Attn: Alethea Ramos
Project: 60571032 CV18F0126 Red Hill Fuel Storage

Sample ID: ERH2274

Sample Collection Date: 12/21/21

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

ARF: 98566

APPL ID: BA48198

QCG: #87DME-211227A-271946

Method	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
EPA 8270D	2-(2-METHOXYETHOXY)-ETHANOL	32000	100	80.0	40.0	ug/L	12/27/21	12/27/21

Quant Method: MEE1222P.M
Run #: 1110Y169
Instrument: Yoda
Sequence: Y211110M
Dilution Factor: 1
Initials: MA

Printed: 1/13/2022 4:09:08 PM
APPL-F1-SC-NoMC-REG MDLs-DOD

QC FORMS

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.
Case No: 98566
Matrix: MISC
Blank ID: 211223A1-BLK

SDG No: 98566
Date Analyzed: 12/23/2021
Instrument: Yoda
Time Analyzed: 1211

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211223A1-BLK	Blank	1110Y153	12/23/2021 1211
211223A1-LCS	Lab Control Spike	1110Y154	12/23/2021 1234
211223A1-LCSD	Lab Control Spiked	1110Y155	12/23/2021 1258
BA48188	ERH2273	1110Y156	12/23/2021 1511
211223A1-MS	Matrix Spike	1110Y162	12/27/2021 1201
211223A1-MSD	Matrix Spiked	1110Y163	12/27/2021 1224

Comments: Batch: #87DME-211223A1

Printed: 1/13/2022 4:06:36 PM
Form 4, Blank Summary

EPA 8270D

Form 4

Blank Summary

Lab Name: APPL, Inc.

SDG No: 98566

Case No: 98566

Date Analyzed: 12/27/2021

Matrix: WATER

Instrument: Yoda

Blank ID: 211227A-BLK

Time Analyzed: 1436

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211227A-BLK	Blank	1110Y165	12/27/2021 1436
211227A-LCS	Lab Control Spike	1110Y166	12/27/2021 1459
211227A-LCSD	Lab Control Spiked	1110Y167	12/27/2021 1522
BA48198	ERH2274	1110Y169	12/27/2021 1632

Comments: Batch: #87DME-211227A

Printed: 1/13/2022 4:06:36 PM
Form 4, Blank Summary

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **211227W-48198 - 271946**
Batch ID: #87DME-211227A

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/L	12/27/2021	12/27/2021

Quant Method: MEE1222P.M
Run #: 1110Y165
Instrument: Yoda
Sequence: Y211110M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 1/13/2022 4:09:20 PM

Method Blank
EPA 8270D MODIFIED WATER

Blank Name/QCG: **211223S-48188 - 272565**
Batch ID: #87DME-211223A1

APPL Inc.
908 North Temperance Avenue
Clovis, CA 93611

Sample Type	Analyte	Result	LOQ	LOD	DL	Units	Extraction Date	Analysis Date
BLANK	2-(2-METHOXYETHOXY)-ETHAN	80.0 U	100	80.0	40.0	ug/mL	12/23/2021	12/23/2021

Quant Method: MEE1222P.M
Run #: 1110Y153
Instrument: Yoda
Sequence: Y211110M
Initials: MA

GC SC-Blank-REG MDLs-DOD
Printed: 1/13/2022 4:09:20 PM

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 98566

Case No: 98566

Date Analyzed: 12/23/2021

Matrix: MISC

Instrument: Yoda

LCS ID: 211223A1-LCS

Time Analyzed: 1234

APPL ID.	Client Sample No.	File ID.	Date Analyzed	
211223A1-BLK	Blank	1110Y153	12/23/2021	1211
211223A1-LCS	Lab Control Spike	1110Y154	12/23/2021	1234
211223A1-LCSD	Lab Control Spiked	1110Y155	12/23/2021	1258
BA48188	ERH2273	1110Y156	12/23/2021	1511
211223A1-MS	Matrix Spike	1110Y162	12/27/2021	1201
211223A1-MSD	Matrix SpikeD	1110Y163	12/27/2021	1224

Comments: Batch: #87DME-211223A1

Printed: 1/13/2022 4:06:18 PM
Form 4, LCS Summary

EPA 8270D

Form 4

LCS Summary

Lab Name: APPL, Inc.

SDG No: 98566

Case No: 98566

Date Analyzed: 12/27/2021

Matrix: WATER

Instrument: Yoda

LCS ID: 211227A-LCS

Time Analyzed: 1459

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211227A-BLK	Blank	1110Y165	12/27/2021 1436
211227A-LCS	Lab Control Spike	1110Y166	12/27/2021 1459
211227A-LCSD	Lab Control Spiked	1110Y167	12/27/2021 1522
BA48198	ERH2274	1110Y169	12/27/2021 1632

Comments: Batch: #87DME-211227A

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Form 4, LCS Summary

Laboratory Control Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: 211223S-48188 LCS - 272565

Batch ID: #87DME-211223A1

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/mL	SPK Result ug/mL	DUP Result ug/mL	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	114	96.7	143 #	121	30-130	16.4	20

= Recovery is outside QC limits.

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	MEE1222P.M	MEE1222P.M
Extraction Date :	12/23/2021	12/23/2021
Analysis Date :	12/23/2021	12/23/2021
Instrument :	Yoda	Yoda
Run :	1110Y154	1110Y155
Initials :	MA	

Laboratory Control Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: 211227W-48198 LCS - 271946

Batch ID: #87DME-211227A

APPL Inc.

908 North Temperance Avenue

Clovis, CA 93611

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	80.0	69.3	65.4	86.6	81.8	30-130	5.8	20

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	MEE1222P.M	MEE1222P.M
Extraction Date :	12/27/2021	12/27/2021
Analysis Date :	12/27/2021	12/27/2021
Instrument :	Yoda	Yoda
Run :	1110Y166	1110Y167
Initials :	MA	

Matrix Spike Recoveries

EPA 8270D MODIFIED WATER

APPL ID: **211223S-48188 MS - 272565**
 Batch ID: #87DME-211223A1
 Sample ID: BA48188
 Client ID: ERH2273

APPL Inc.
 908 North Temperance Avenue
 Clovis, CA 93611

Compound Name	Spike Lvl ug/mL	Matrix Result ug/mL	SPK Result ug/mL	DUP Result ug/mL	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
2-(2-METHOXYETHOXY)-ETHANOL	10000	ND	9170	9790	91.7	97.9	30-130	6.5	20

Comments: _____

<u>Primary</u>	<u>SPK</u>	<u>DUP</u>
Quant Method :	MEE1222P.M	MEE1222P.M
Extraction Date :	12/23/2021	12/23/2021
Analysis Date :	12/27/2021	12/27/2021
Instrument :	Yoda	Yoda
Run :	1110Y162	1110Y163
Initials :	MA	

Printed: 1/13/2022 4:11:29 PM
 APPL MSD SCII

Form 5
Tune Summary

Lab Name: APPL Inc.
 Case No: _____
 Matrix: Water
 ID: 1110Y131.D

SDG No: _____
 Date Analyzed: 12/22/2021
 Instrument: Yoda
 Time Analyzed: 11:54

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	1ug/ml MEE 12/22/21	1110Y141.D	12/22/2021 20:00
2	10ug/ml MEE 12/22/21	1110Y142.D	12/22/2021 20:24
3	50ug/ml MEE 11/08/21	1110Y143.D	12/22/2021 20:47
4	100ug/ml MEE 11/08/2	1110Y144.D	12/22/2021 21:10
5	200ug/ml MEE 11/08/2	1110Y145.D	12/22/2021 21:33
6	500ug/ml MEE 11/08/2	1110Y146.D	12/22/2021 21:56
7	800ug/ml MEE 11/08/2	1110Y147.D	12/22/2021 22:19
8	1000ug/ml MEE 11/08/	1110Y148.D	12/22/2021 22:42
9			
10			
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21			
22			

m/e

51 9.95 - 80.04% of mass 198	<u>31.3</u>
68 0 - 2.04% of mass 69	<u>0.0</u>
70 0 - 2.04% of mass 69	<u>0.0</u>
127 10 - 80% of mass 198	<u>47.8</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198.05	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.8</u>
275 10 - 60% of mass 198	<u>29.1</u>
365 1 - 100% of mass 198	<u>3.4</u>
441 0.01 - 24% of mass 442	<u>16.3</u>
442 50 - 500% of mass 198.05	<u>96.1</u>
443 15 - 24% of mass 442	<u>19.7</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Water
ID: 1110Y151.D

SDG No: _____
Date Analyzed: 12/23/2021
Instrument: Yoda
Time Analyzed: 11:29

Client Sample No.	APPL ID.	File ID.	Date Analyzed
1	SS 500ug/ml MEE 11/0	1110Y152.D	12/23/2021 11:44
2	Blank	211223A BLK	12/23/2021 12:11
3	Lab Control Spike	211223A LCS-1	12/23/2021 12:34
4	Lab Control SpikeD	211223A LCSD-1	12/23/2021 12:58
5	BA48188 df100	1110Y156.D	12/23/2021 15:11
6	500ug/ml (2) MEE 11/	1110Y157.D	12/23/2021 15:34
7			
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15			
16			
17			
18			
19			
20			
21			
22			

m/e

51 9.95 - 80.04% of mass 198	<u>31.1</u>
68 0 - 2.04% of mass 69	<u>0.0</u>
70 0 - 2.04% of mass 69	<u>0.7</u>
127 10 - 80% of mass 198	<u>46.5</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.6</u>
275 10 - 60% of mass 198	<u>28.6</u>
365 1 - 100% of mass 198	<u>3.4</u>
441 0.01 - 24% of mass 442	<u>16.3</u>
442 50 - 500% of mass 198	<u>100.1</u>
443 15 - 24% of mass 442	<u>19.4</u>

Form 5
Tune Summary

Lab Name: APPL Inc.
Case No: _____
Matrix: Water
ID: 1110Y160.D

SDG No: _____
Date Analyzed: 12/27/2021
Instrument: Yoda
Time Analyzed: 10:29

Client Sample No.	APPL ID.	File ID.	Date Analyzed	
1	500ug/ml (1) MEE 11/	1110Y161.D	12/27/2021 10:44	
2	BA48188 df100 MS-1 1	1110Y162.D	12/27/2021 12:01	
3	BA48188 df100 MSD-1	1110Y163.D	12/27/2021 12:24	
4	Blank	211227A BLK 2/500	1110Y165.D	12/27/2021 14:36
5	Lab Control Spike	211227A LCS-1 2/500	1110Y166.D	12/27/2021 14:59
6	Lab Control Spiked	211227A LCSD-1 2/500	1110Y167.D	12/27/2021 15:22
7		BA48198M02 2/500 df1	1110Y169.D	12/27/2021 16:32
8	500ug/ml (1) MEE 11/	1110Y170.D	12/27/2021 16:55	
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22				

m/e

51 9.95 - 80.04% of mass 198	<u>34.9</u>
68 0 - 2.04% of mass 69	<u>0.0</u>
70 0 - 2.04% of mass 69	<u>0.6</u>
127 10 - 80% of mass 198	<u>49.3</u>
197 0 - 2% of mass 198	<u>0.0</u>
198 100 - 100% of mass 198.05	<u>100.0</u>
199 5 - 9% of mass 198	<u>6.6</u>
275 10 - 60% of mass 198	<u>28.4</u>
365 1 - 100% of mass 198	<u>3.2</u>
441 0.01 - 24% of mass 442	<u>15.9</u>
442 50 - 500% of mass 198.05	<u>90.4</u>
443 15 - 24% of mass 442	<u>19.5</u>

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 1110Y152.D Date Analyzed: 12/23/21
 Instrument ID: Yoda Time Analyzed: 11:44
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

1,4-dichlorobenzene-D4(IS)						
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	872999	4.94				
UPPER LIMIT	1745998	5.11				
LOWER LIMIT	436500	4.77				
SAMPLE NO.						
01 211223A BLK	522389	4.94				
02 211223A LCS-1	566021	4.93				
03 211223A LCSD-1	642500	4.93				
04 BA48188 df100	713884	4.94				
05 500ug/ml (2) MEE 11/08	746785	4.95				
06						
07						
08						
09						
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18						
19						
20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

8A
INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: APPL Inc. Contract: _____
 Lab Code: _____ SDG No.: _____
 Lab File ID (Standard): 1110Y161.D Date Analyzed: 12/27/21
 Instrument ID: Yoda Time Analyzed: 10:44
 GC Column: _____ ID: _____ Heated Purge: (Y/N) _____

1,4-dichlorobenzene-D4(IS)						
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	623984	4.94				
UPPER LIMIT	1247968	5.11				
LOWER LIMIT	311992	4.77				
SAMPLE NO.						
01 BA48188 df100 MS-1 10	750739	4.94				
02 BA48188 df100 MSD-1	763948	4.94				
03 211227A BLK 2/500	897319	4.93				
04 211227A LCS-1 2/500	855553	4.92				
05 211227A LCSD-1 2/500	995972	4.93				
06 BA48198M02 2/500 df10	1002870	4.94				
07 500ug/ml (1) MEE 11/08	691528	4.94				
08						
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20						
21						
22						

AREA UPPER LIMIT = +100% of internal standard area.
 AREA LOWER LIMIT = -50% of internal standard area.
 RT UPPER LIMIT = +0.17 minutes of internal standard RT
 RT LOWER LIMIT = -0.17 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

ORGANICS
Calibration Data

2MEE
EPA 8270

Form 6
Initial Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Initial Cal. Date: 12/22/2021
Instrument: Yoda

Initials: LP

1110Y141.D 1110Y142.D 1110Y143.D 1110Y144.D 1110Y145.D 1110Y146.D 1110Y147.D 1110Y148.D

	Compound	1	2	3	4	5	6	7	8			Avg	%RSD	Type	r ²	Q	MRF
1	I 1,4-dichlorobenzene-D4(IS)																
2	TML 2-(2-Methoxyethoxy)ethanol	1.083	0.3229	0.1576	0.1873	0.1918	0.2088	0.2130	0.2123			0.32	97	TM	1.000		
3																	
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35																	

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y141.D Vial: 41
 Acq On : 22 Dec 21 20:00 Operator: MA,SS
 Sample : 1ug/ml MEE 12/22/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 6:03 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:01:34 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	832943	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.14	45	22547	5.886	ppb	97

Quantitation Report

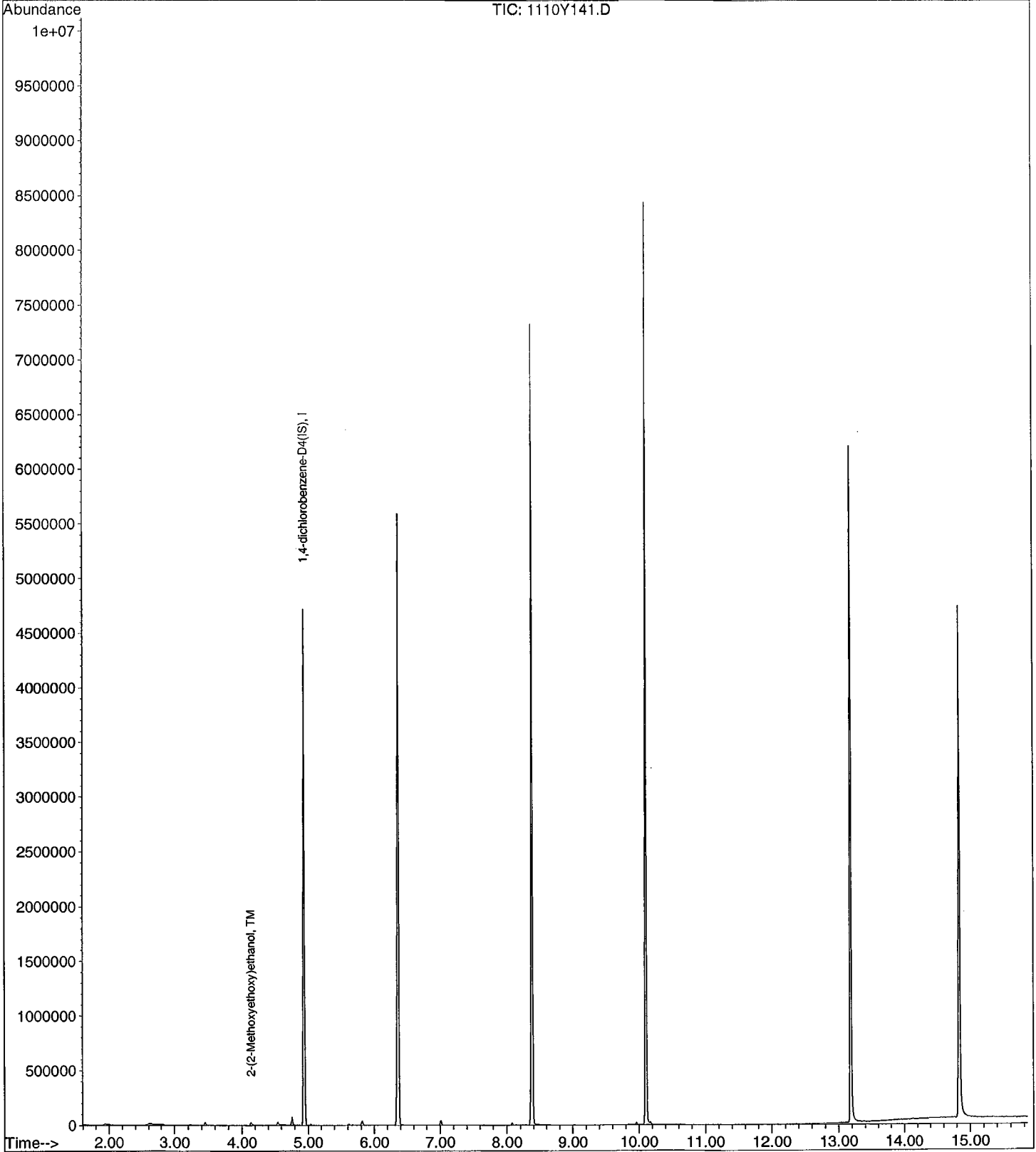
Data File : M:\YODA\DATA\Y211110M\1110Y141.D
Acq On : 22 Dec 21 20:00
Sample : 1ug/ml MEE 12/22/21
Misc : Water

Vial: 41
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 6:03 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:01:34 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y142.D Vial: 42
 Acq On : 22 Dec 21 20:24 Operator: MA,SS
 Sample : 10ug/ml MEE 12/22/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 6:03 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:01:34 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	815021	40.000 ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	4.12	45	65788	17.551 ppb	94

Quantitation Report

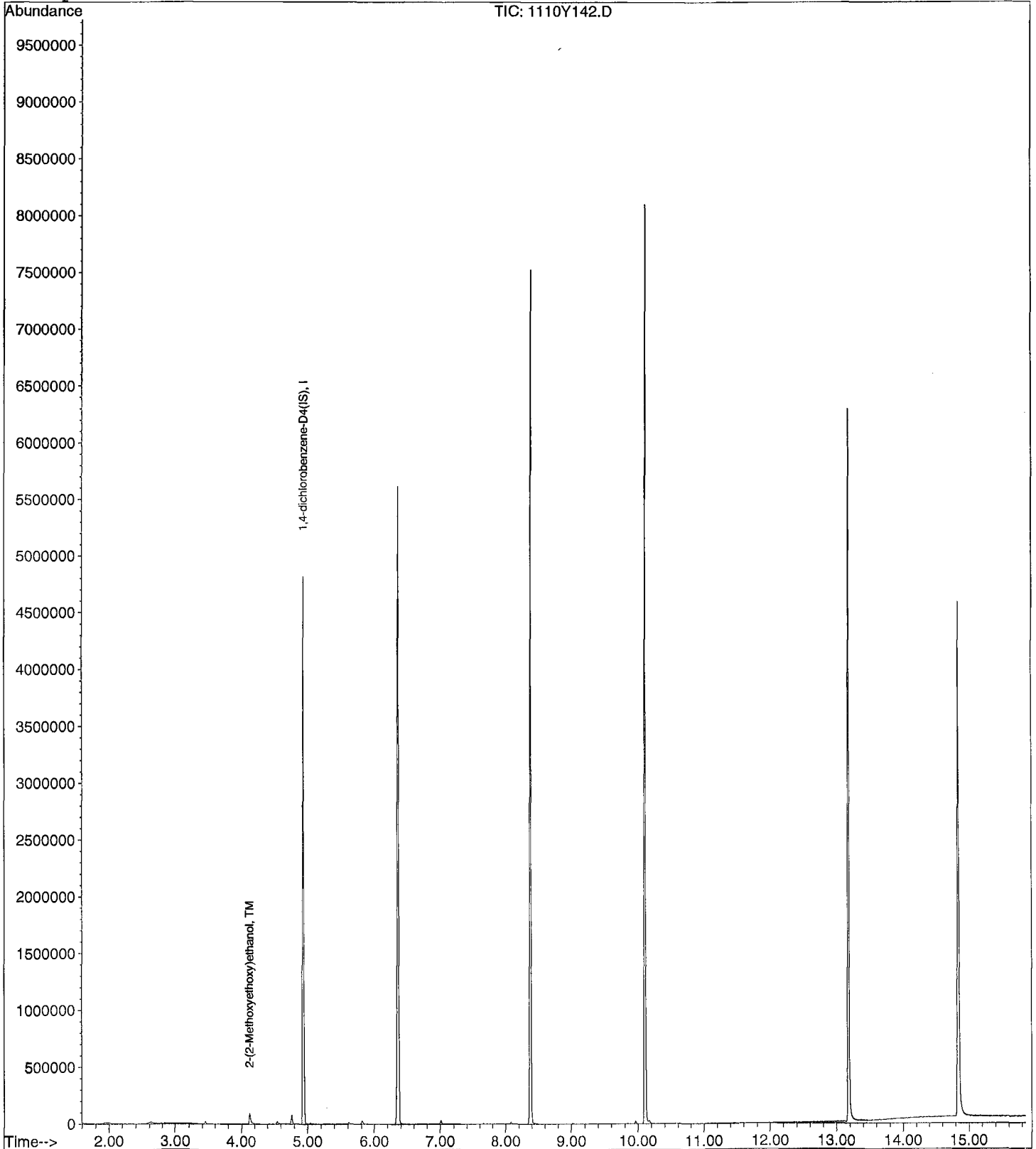
Data File : M:\YODA\DATA\Y211110M\1110Y142.D
Acq On : 22 Dec 21 20:24
Sample : 10ug/ml MEE 12/22/21
Misc : Water

Vial: 42
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 6:03 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:01:34 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y143.D Vial: 43
 Acq On : 22 Dec 21 20:47 Operator: MA,SS
 Sample : 50ug/ml MEE 11/08/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 6:03 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:01:34 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	658028	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.11	45	129645	42.838	ppb	100

Quantitation Report

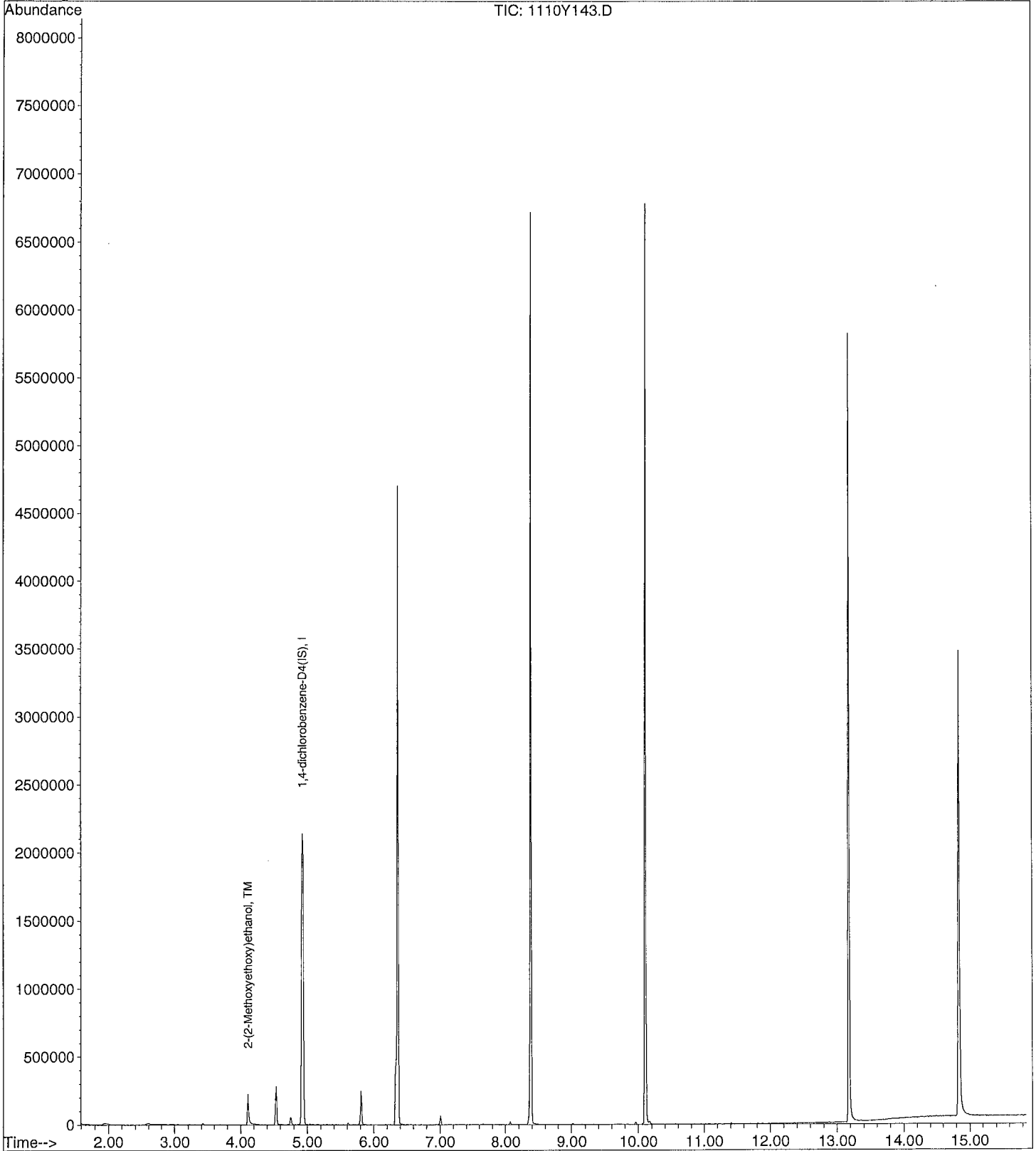
Data File : M:\YODA\DATA\Y211110M\1110Y143.D
Acq On : 22 Dec 21 20:47
Sample : 50ug/ml MEE 11/08/21
Misc : Water

Vial: 43
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 6:03 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:01:34 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y144.D Vial: 44
 Acq On : 22 Dec 21 21:10 Operator: MA,SS
 Sample : 100ug/ml MEE 11/08/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 6:03 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:01:34 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	795521	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.12	45	372561	101.826	ppb	97

Quantitation Report

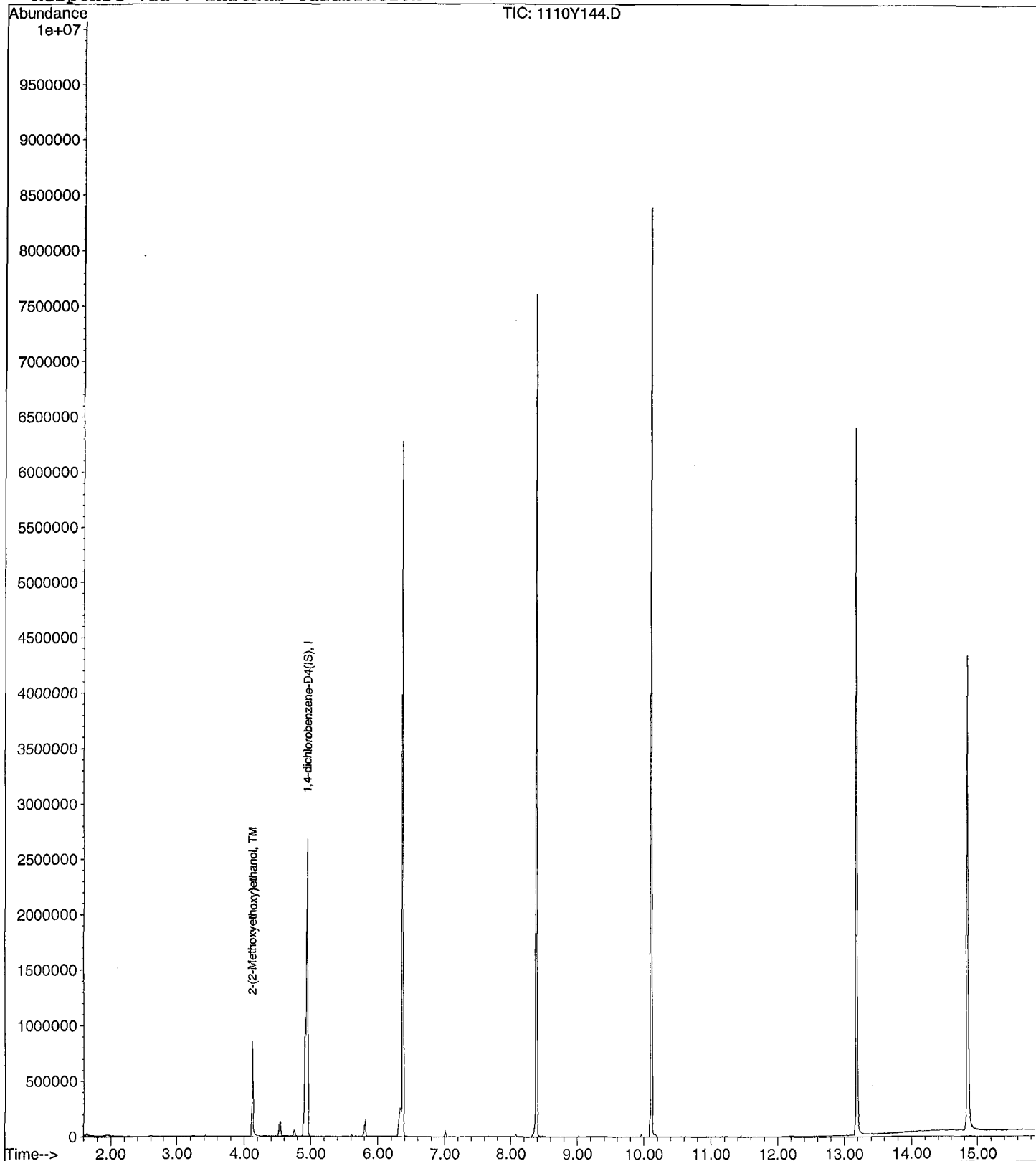
Data File : M:\YODA\DATA\Y211110M\1110Y144.D
Acq On : 22 Dec 21 21:10
Sample : 100ug/ml MEE 11/08/21
Misc : Water

Vial: 44
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 6:03 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:01:34 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y145.D Vial: 45
 Acq On : 22 Dec 21 21:33 Operator: MA,SS
 Sample : 200ug/ml MEE 11/08/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 6:03 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:01:34 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	804123	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.13	45	771106	208.500	ppb	99

Quantitation Report

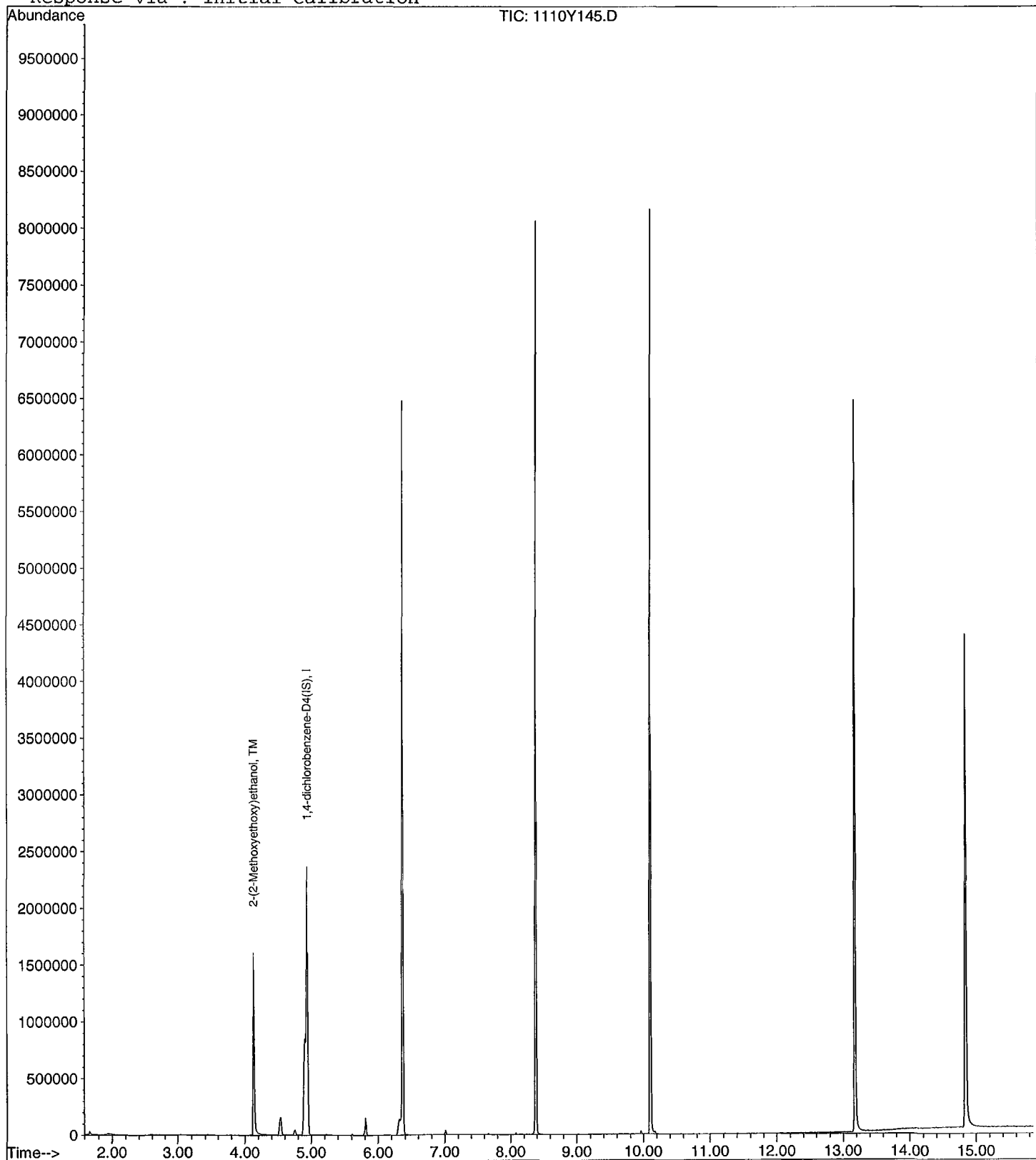
Data File : M:\YODA\DATA\Y211110M\1110Y145.D
Acq On : 22 Dec 21 21:33
Sample : 200ug/ml MEE 11/08/21
Misc : Water

Vial: 45
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 6:03 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:01:34 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y146.D Vial: 46
 Acq On : 22 Dec 21 21:56 Operator: MA,SS
 Sample : 500ug/ml MEE 11/08/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 6:03 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:01:34 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	793881	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	4.17	45	2071955	567.465	ppb	99

Quantitation Report

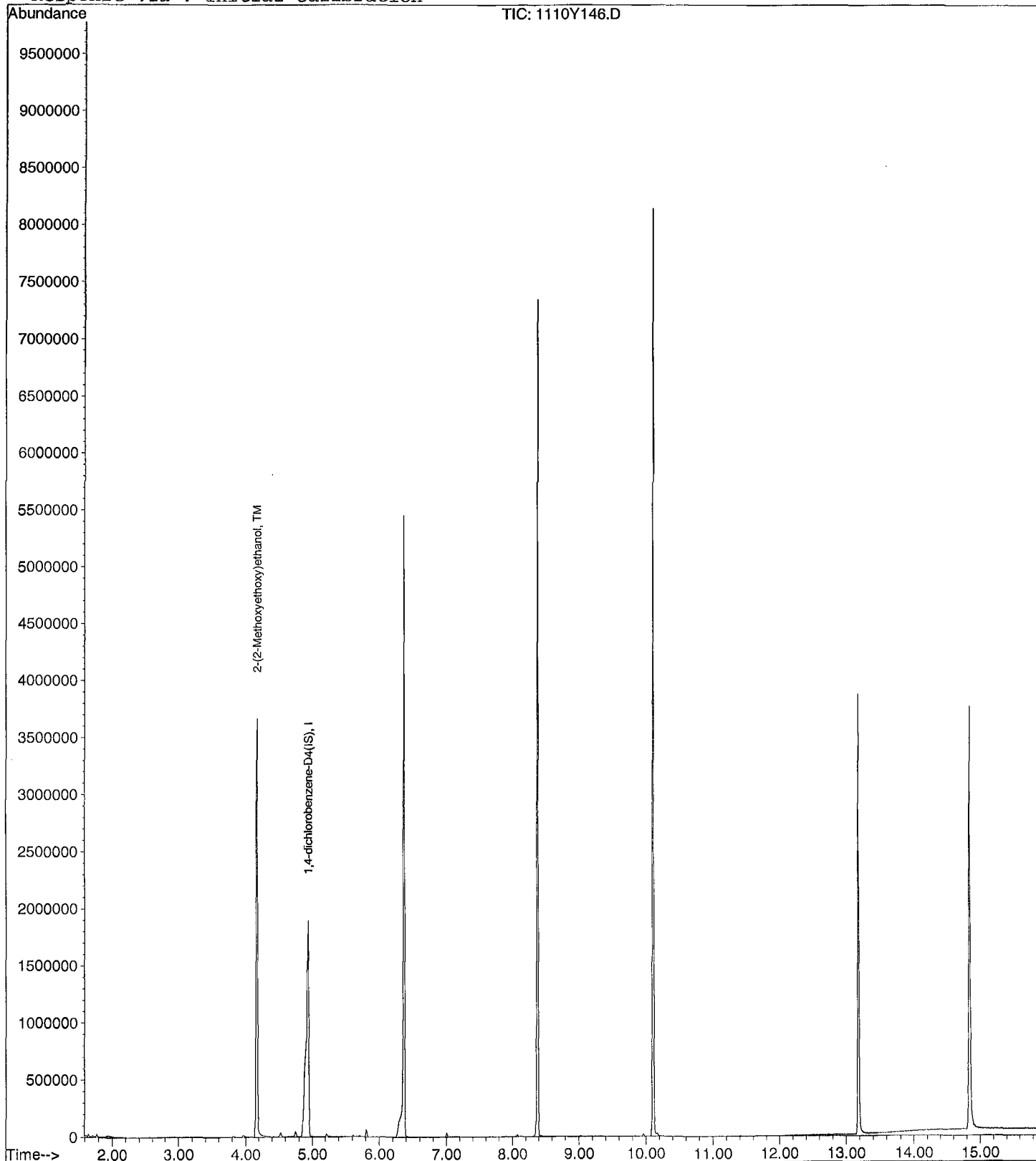
Data File : M:\YODA\DATA\Y211110M\1110Y146.D
Acq On : 22 Dec 21 21:56
Sample : 500ug/ml MEE 11/08/21
Misc : Water

Vial: 46
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 6:03 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:01:34 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y147.D Vial: 47
 Acq On : 22 Dec 21 22:19 Operator: MA,SS
 Sample : 800ug/ml MEE 11/08/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 6:07 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:07:01 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	781673	40.000	ppb	-0.01

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	4.22	45	3330247	926.330	ppb	100

Quantitation Report

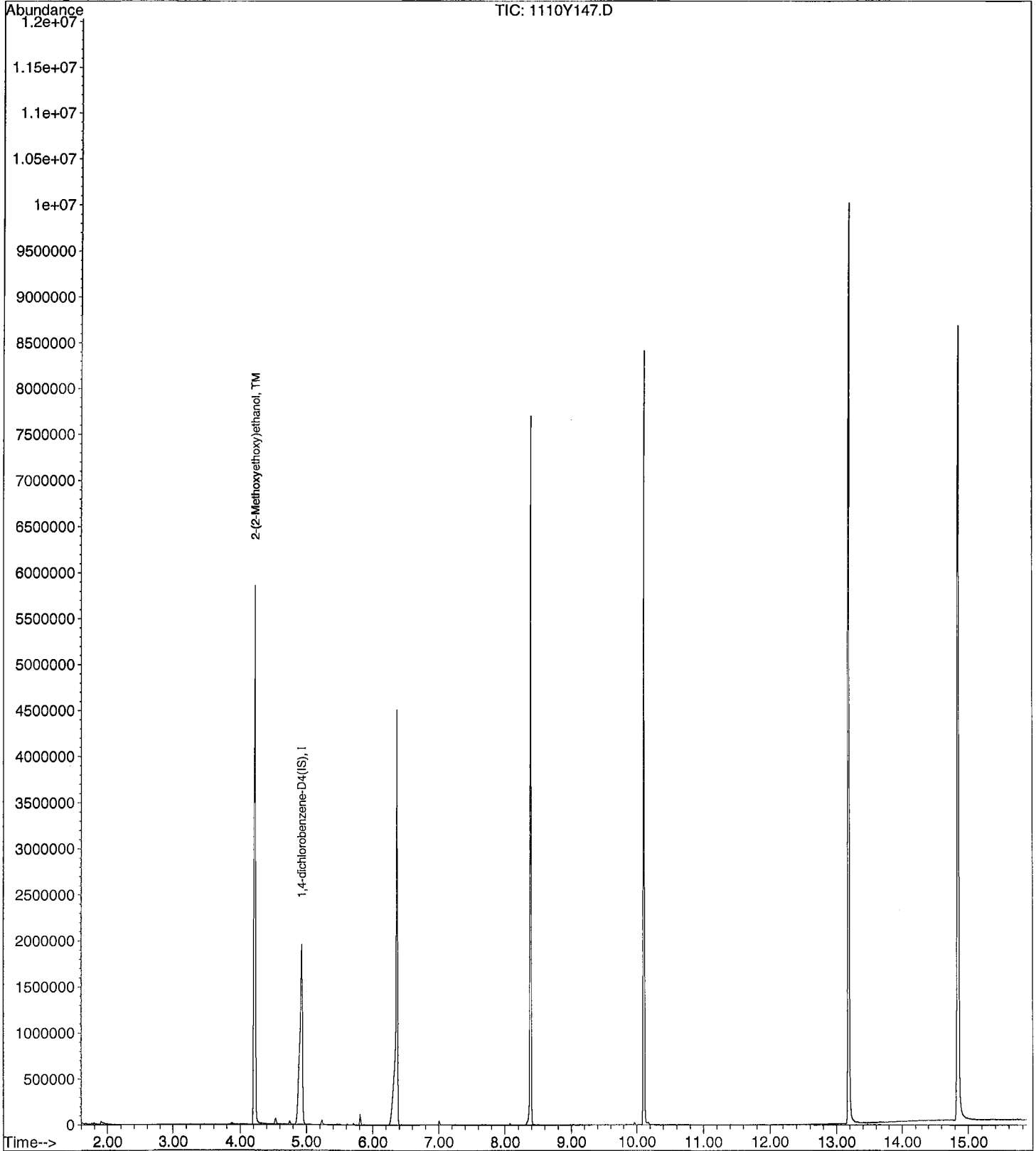
Data File : M:\YODA\DATA\Y211110M\1110Y147.D
Acq On : 22 Dec 21 22:19
Sample : 800ug/ml MEE 11/08/21
Misc : Water

Vial: 47
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 6:07 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:07:01 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y148.D Vial: 48
 Acq On : 22 Dec 21 22:42 Operator: MA,SS
 Sample : 1000ug/ml MEE 11/08/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 6:07 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:07:01 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	762290	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy) ethanol	4.26	45	4046239	1154.106	ppb	100

Quantitation Report

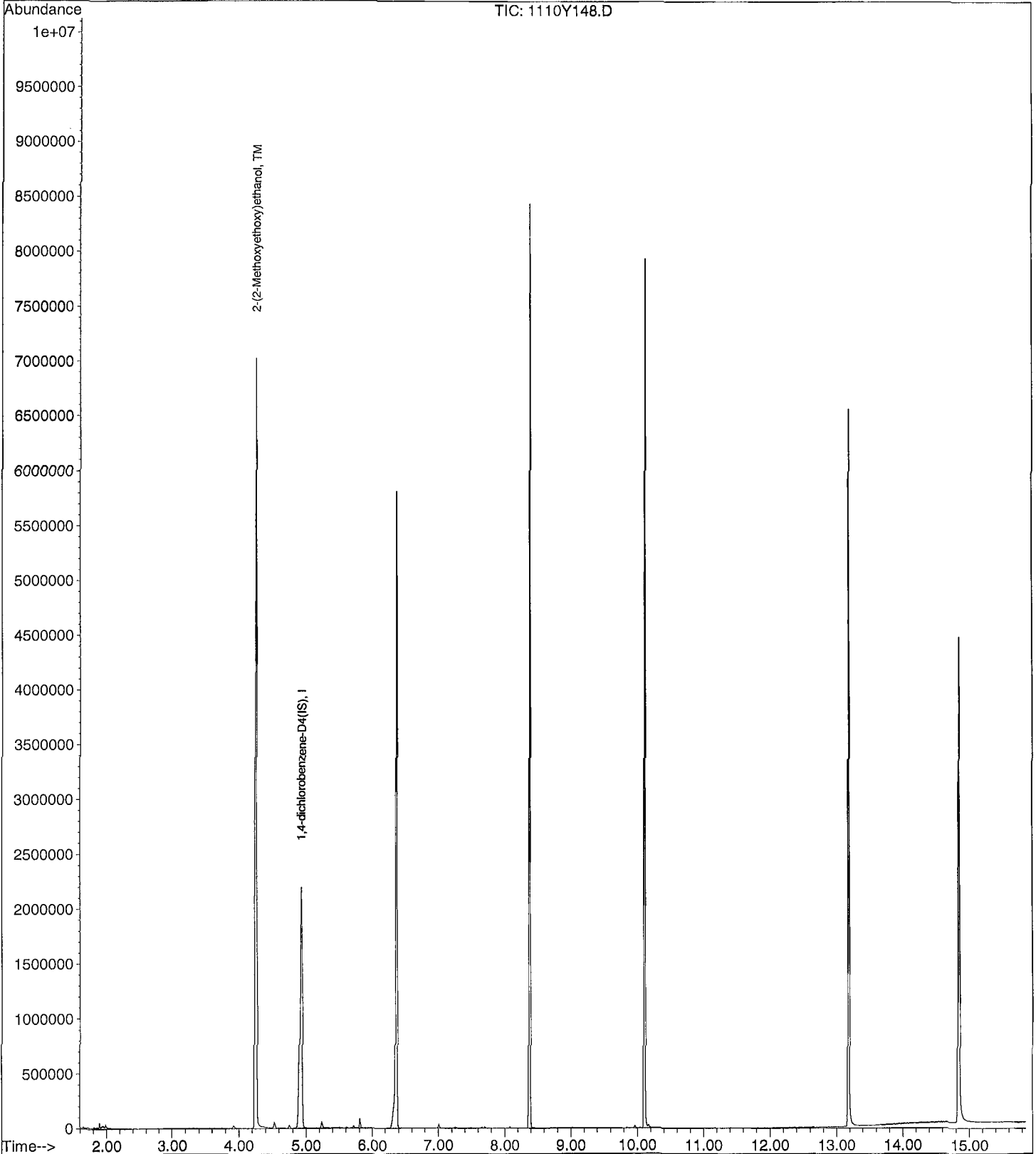
Data File : M:\YODA\DATA\Y211110M\1110Y148.D
Acq On : 22 Dec 21 22:42
Sample : 1000ug/ml MEE 11/08/21
Misc : Water

Vial: 48
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 6:07 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:07:01 2021
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Second Source Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 12/23/2021
Instrument: Yoda
Initial Cal. Date: 12/22/2021
Data File: 1110Y152.D

	Compound	MEAN	CCRF	%D	%Drift
1	TML 2-(2-Methoxyethoxy)ethanol	0.3221	0.2228	31	TML 5.7
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39					
40					

Average

31.0

Data File : M:\YODA\DATA\Y211110M\1110Y152.D Vial: 52
 Acq On : 23 Dec 21 11:44 Operator: MA,SS
 Sample : SS 500ug/ml MEE 11/08/21 Inst : Yoda
 Misc : Water Multiplr: 1.00

Quant Time: Dec 23 10:38 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:19:42 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	872999	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.18	45	2431601	528.722	ppb	100

Quantitation Report

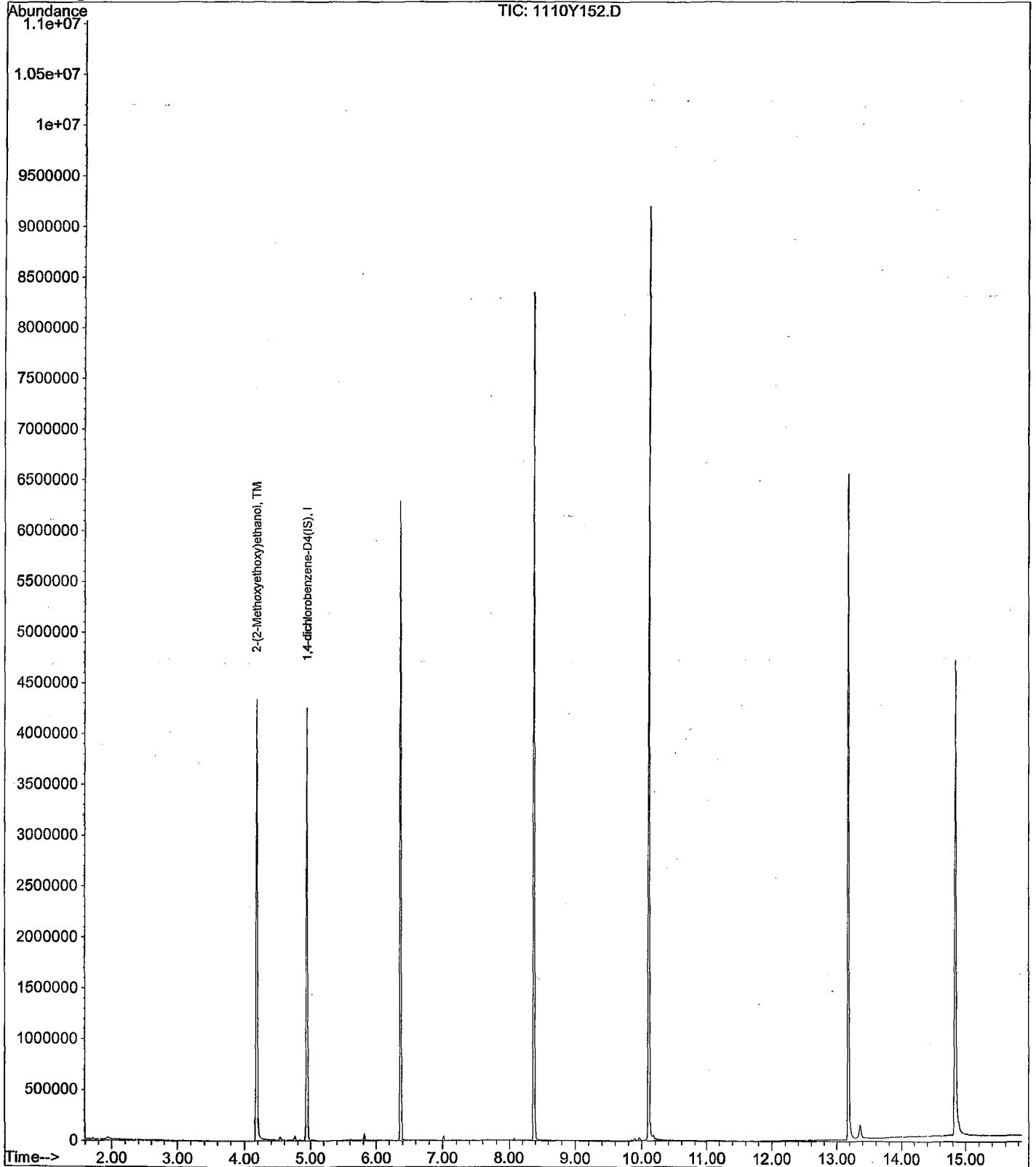
Data File : M:\YODA\DATA\Y211110M\1110Y152.D
Acq On : 23 Dec 21 11:44
Sample : SS 500ug/ml MEE 11/08/21
Misc : Water

Vial: 52
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 23 10:38 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:19:42 2021
Response via : Initial Calibration



2MEE
EPA 8270

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 12/23/2021
Instrument: Yoda
Initial Cal. Date: 12/22/2021
Data File: 1110Y157.D

		Compound	MEAN	CCRF	%D		%Drift
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TML	2-(2-Methoxyethoxy)ethanol	0.3221	0.2254	30	TML	6.9
3							
4							
5							
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40							

Average

30.0

Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y157.D Vial: 57
 Acq On : 23 Dec 21 15:34 Operator: MA,SS
 Sample : 500ug/ml (2) MEE 11/08/21 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Dec 24 5:07 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Dec 24 05:04:48 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.95	152	746785	40.000	ppb	0.01

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.20	45	2103943	534.717	ppb	99

Quantitation Report

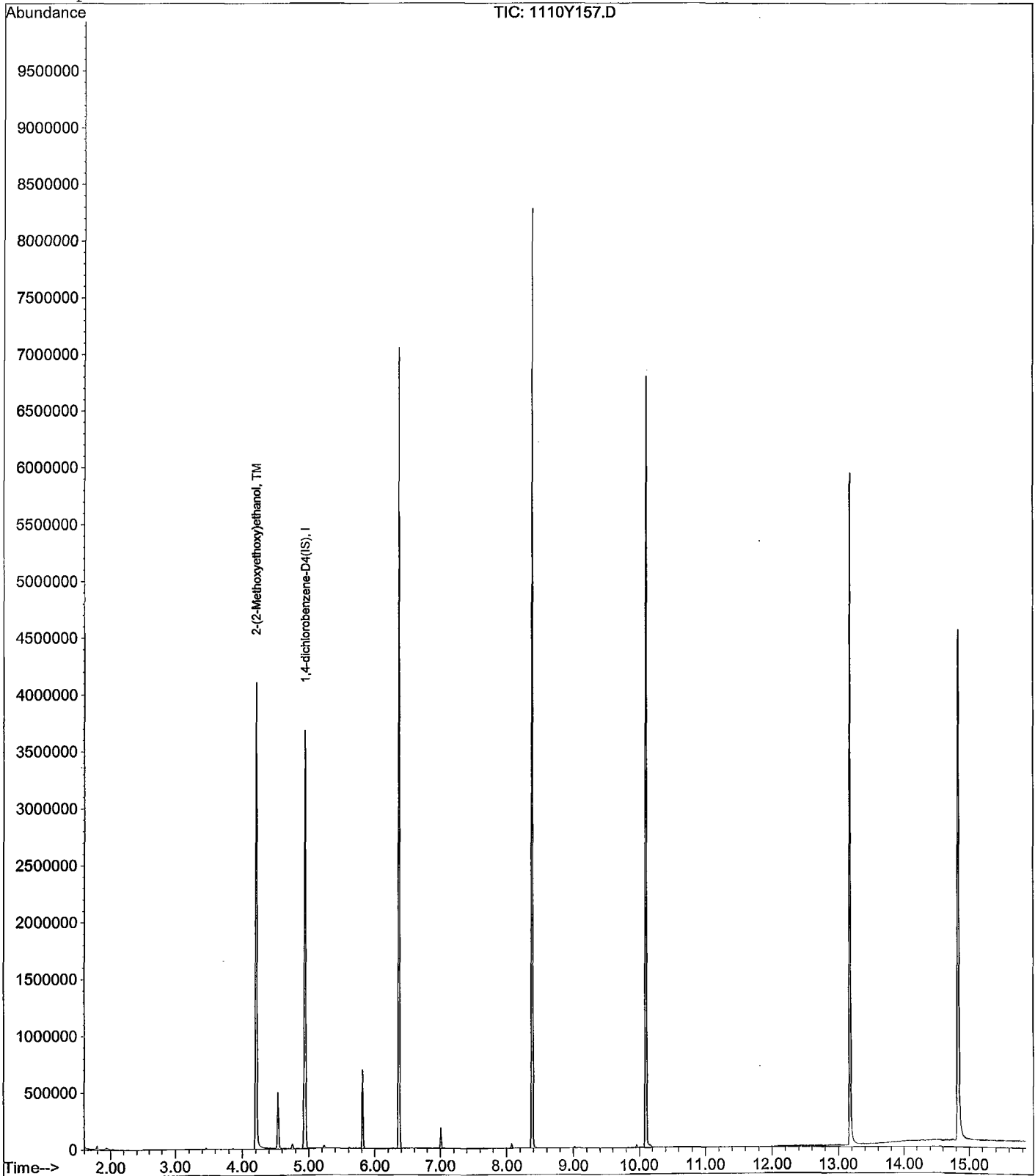
Data File : M:\YODA\DATA\Y211110M\1110Y157.D
Acq On : 23 Dec 21 15:34
Sample : 500ug/ml (2) MEE 11/08/21
Misc :

Vial: 57
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 24 5:07 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Dec 24 05:04:48 2021
Response via : Initial Calibration



2MEE
EPA 8270

Form 7

Continuing Calibration

Lab Name: APPL, Inc.

SDG No: _____

Case No: _____

Date Analyzed: 12/27/2021

Matrix: _____

Instrument: Yoda

Initial Cal. Date: 12/22/2021

Data File: 1110Y161.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TML	2-(2-Methoxyethoxy)ethanol	0.3221	0.2224	31	TML	5.5
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
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27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

31.0

Data File : M:\YODA\DATA\Y211110M\1110Y161.D Vial: 61
 Acq On : 27 Dec 21 10:44 Operator: MA,SS
 Sample : 500ug/ml (1) MEE 11/08/21 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Dec 27 9:40 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Thu Dec 23 06:19:42 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	623984	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.17	45	1734409	527.641	ppb	98

Quantitation Report

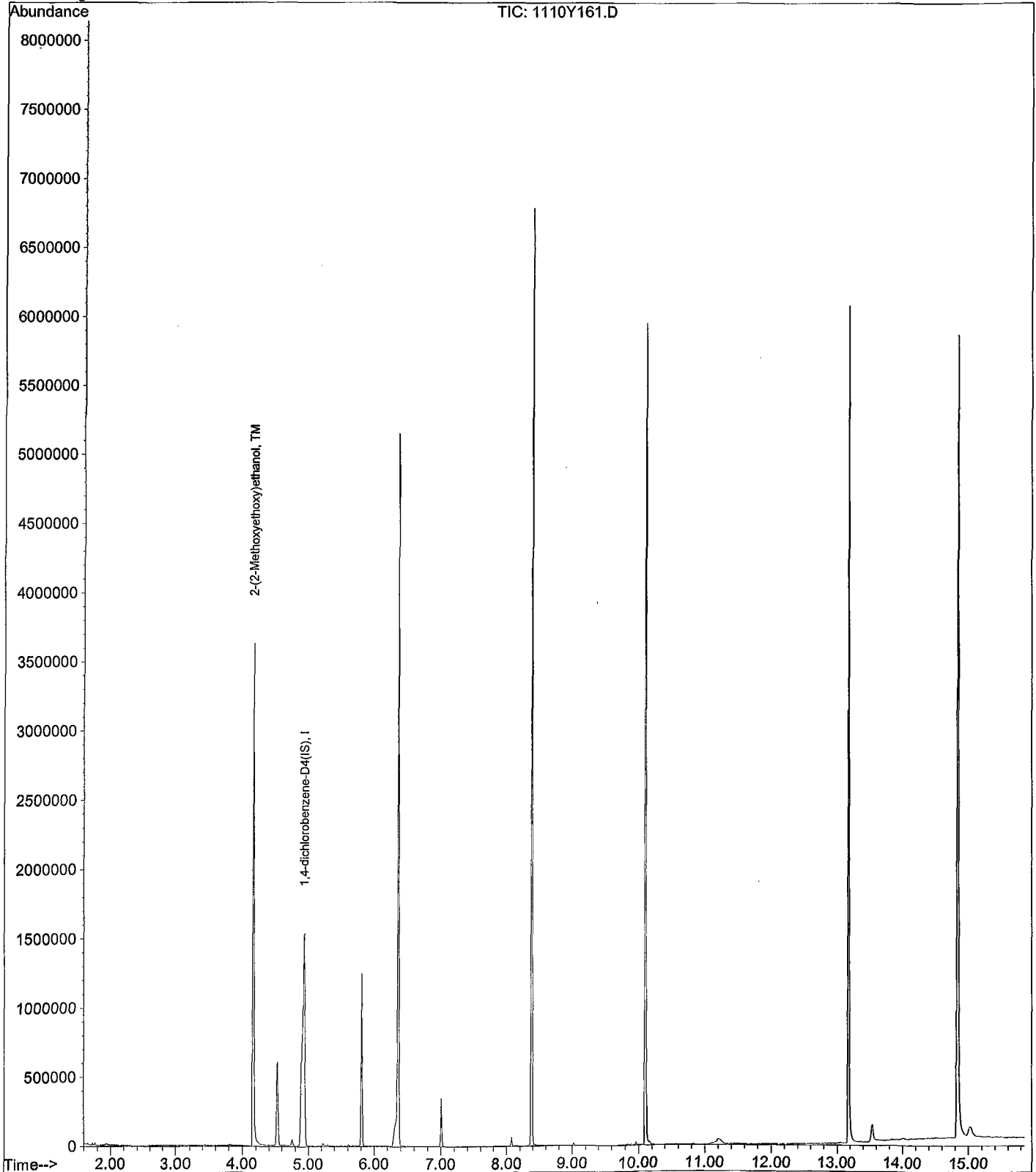
Data File : M:\YODA\DATA\Y211110M\1110Y161.D
Acq On : 27 Dec 21 10:44
Sample : 500ug/ml (1) MEE 11/08/21
Misc :

Vial: 61
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 27 9:40 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Dec 24 05:04:48 2021
Response via : Initial Calibration



2MEE
EPA 8270

Form 7
Continuing Calibration

Lab Name: APPL, Inc.
Case No: _____
Matrix: _____

SDG No: _____
Date Analyzed: 12/27/2021
Instrument: Yoda
Initial Cal. Date: 12/22/2021
Data File: 1110Y170.D

		Compound	MEAN	CCRF	%D	%Drift	
1	I	1,4-dichlorobenzene-D4(IS)	ISTD			I	
2	TML	2-(2-Methoxyethoxy)ethanol	0.3221	0.2221	31	TML	5.4
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
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27							
28							
29							
30							
31							
32							
33							
34							
35							
36							
37							
38							
39							
40							

Average

31.0

Data File : M:\YODA\DATA\Y211110M\1110Y170.D
Acq On : 27 Dec 21 16:55
Sample : 500ug/ml (1) MEE 11/08/21
Misc :

Vial: 70
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 27 15:50 2021

Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	691528	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.17	45	1919453	526.910	ppb	100

Quantitation Report

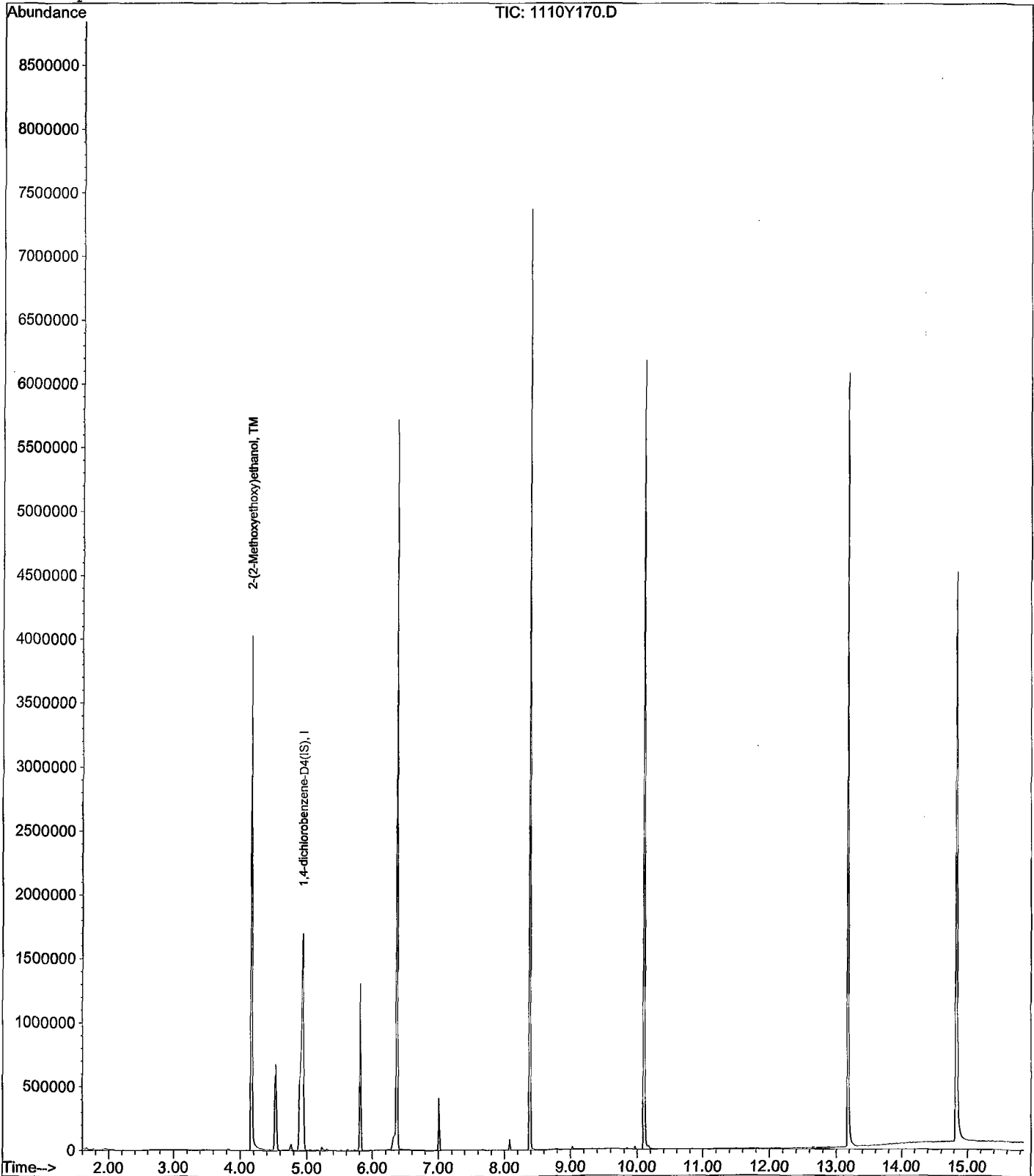
Data File : M:\YODA\DATA\Y211110M\1110Y170.D
Acq On : 27 Dec 21 16:55
Sample : 500ug/ml (1) MEE 11/08/21
Misc :

Vial: 70
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 27 15:50 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



ORGANICS
Raw Data

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y156.D
 Acq On : 23 Dec 21 15:11
 Sample : BA48188 df100
 Misc : Water

Vial: 56
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Dec 24 5:06 2021

Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Dec 24 05:04:48 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	713884	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

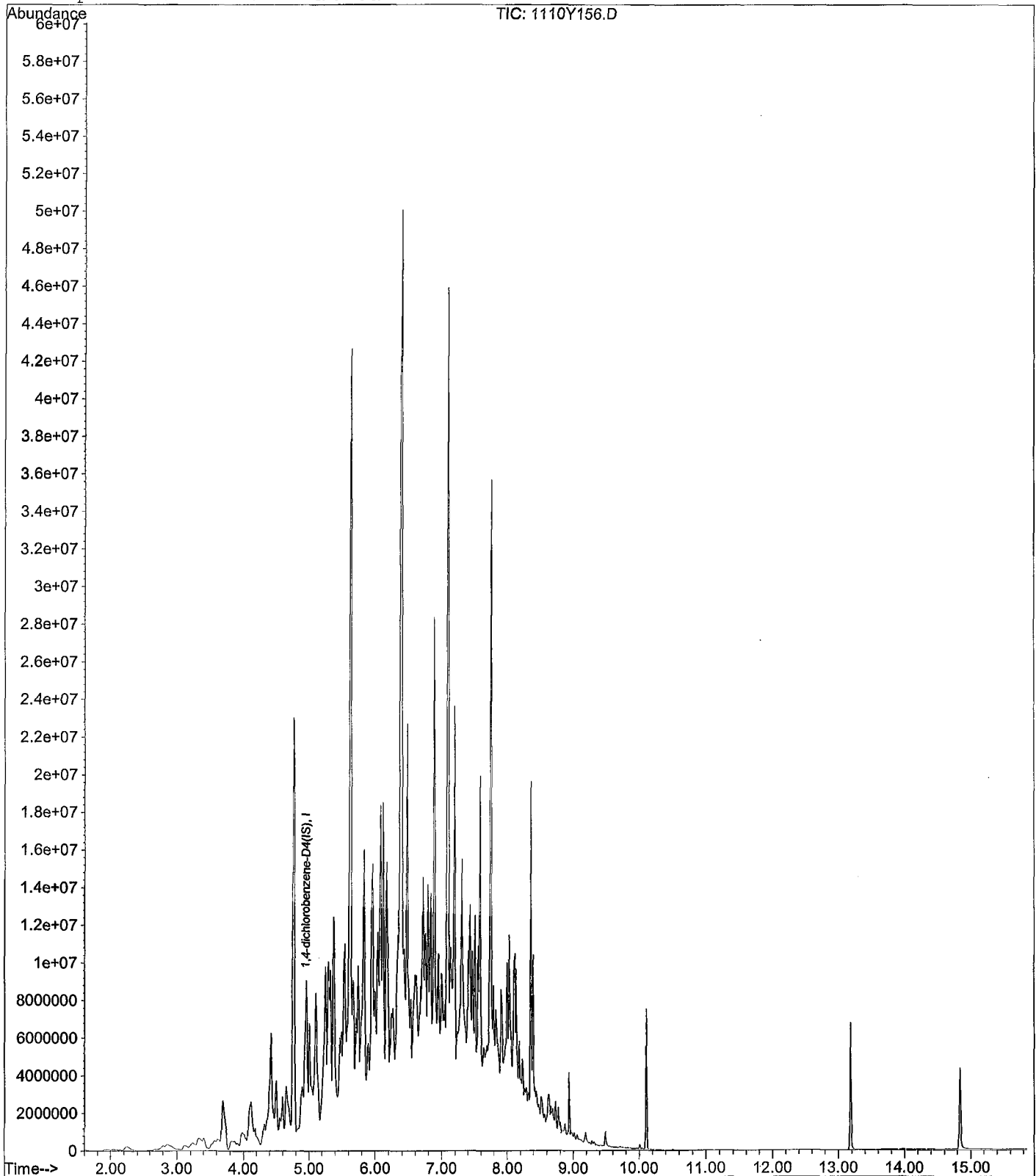
Data File : M:\YODA\DATA\Y211110M\1110Y156.D
Acq On : 23 Dec 21 15:11
Sample : BA48188 df100
Misc : Water

Vial: 56
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 24 5:06 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y211110M\1110Y169.D Vial: 69
 Acq On : 27 Dec 21 16:32 Operator: MA,SS
 Sample : BA48198M02 2/500 df100 Inst : Yoda
 Misc : Multiplr: 100.00

Quant Time: Dec 27 15:25 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Dec 27 15:25:15 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	1002872	40.000 ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.12	45	1687235	32205.772 ppb	100

Quantitation Report

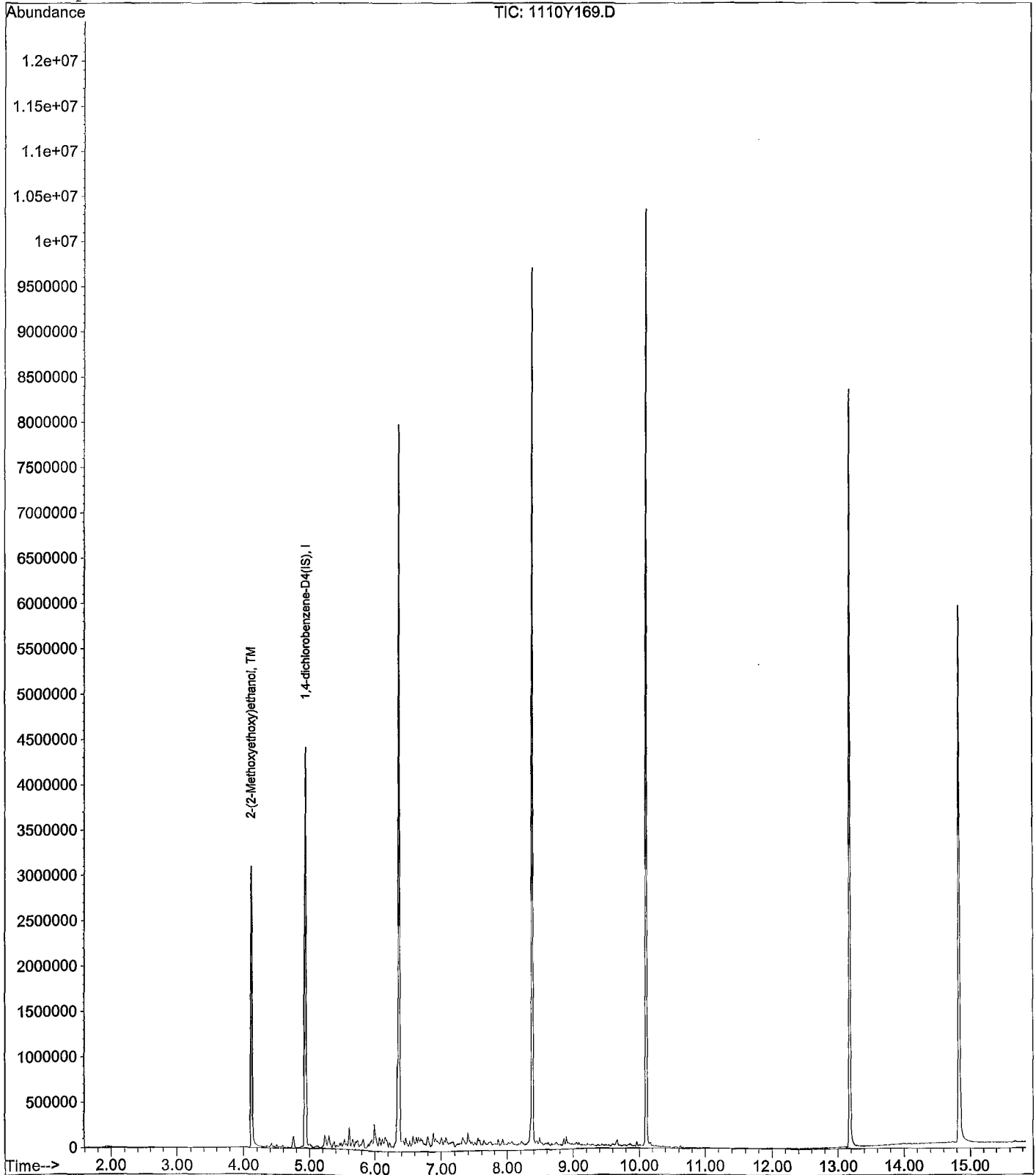
Data File : M:\YODA\DATA\Y211110M\1110Y169.D
Acq On : 27 Dec 21 16:32
Sample : BA48198M02 2/500 df100
Misc :

Vial: 69
Operator: MA,SS
Inst : Yoda
Multiplr: 100.00

Quant Time: Dec 27 15:25 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Quantitation Report

(Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y171.D
Acq On : 27 Dec 21 17:53
Sample : QC
Misc :
MS Integration Params: rteint.p
Quant Time: Dec 27 17:01 2021

Vial: 71
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00000

Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	549126	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.17	45	2270017	781.405	ppb	98

(#) = qualifier out of range (m) = manual integration
1110Y171.D MEE1222P.M Mon Dec 27 17:01:41 2021

Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y153.D
Acq On : 23 Dec 21 12:11
Sample : 211223A BLK
Misc : Water

Vial: 53
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 24 5:02 2021

Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Thu Dec 23 06:19:42 2021
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	522389	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds

Qvalue

Quantitation Report

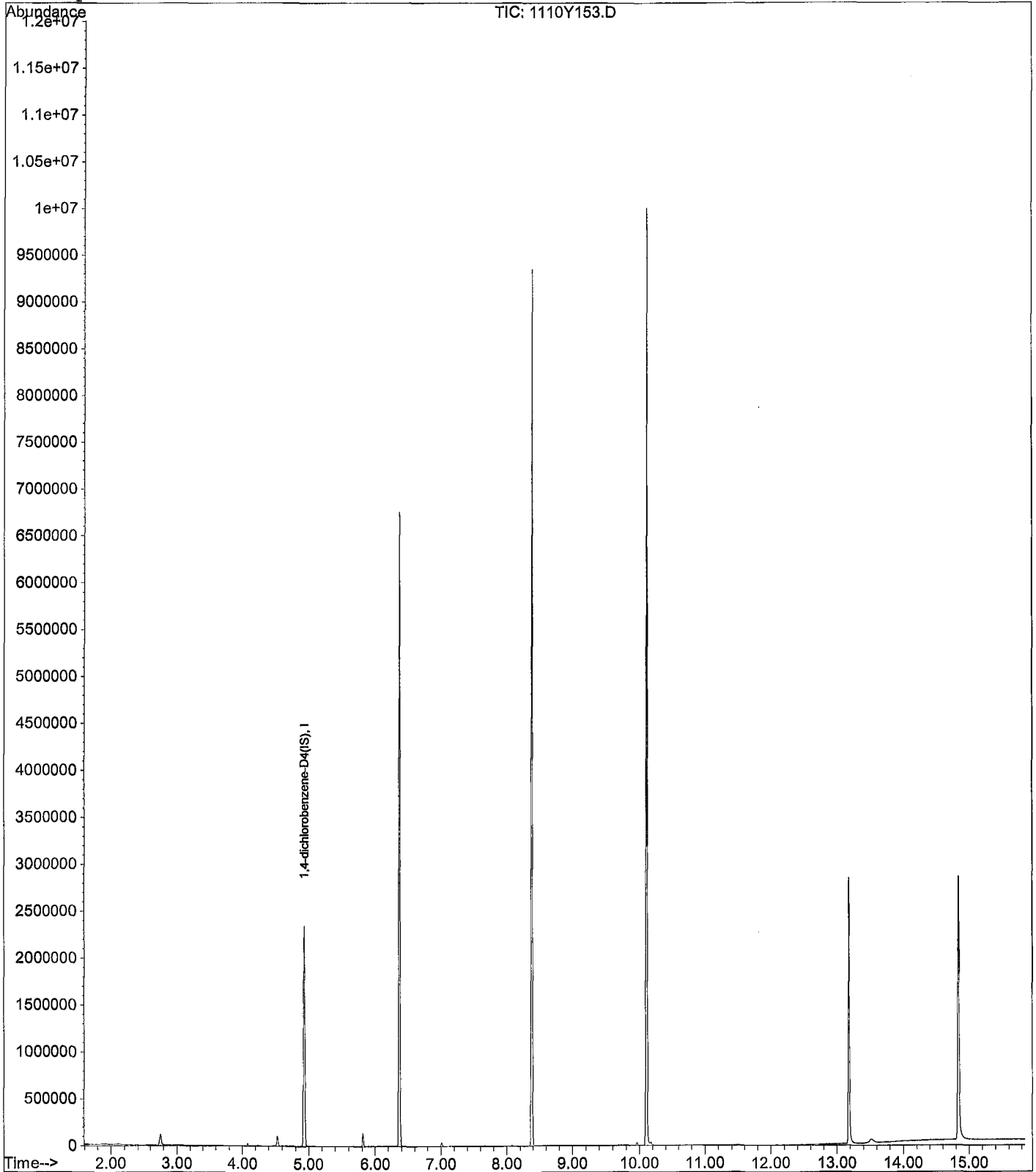
Data File : M:\YODA\DATA\Y211110M\1110Y153.D
Acq On : 23 Dec 21 12:11
Sample : 211223A BLK
Misc : Water

Vial: 53
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 24 5:02 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y165.D Vial: 65
 Acq On : 27 Dec 21 14:36 Operator: MA,SS
 Sample : 211227A BLK 2/500 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Dec 27 13:54 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Dec 27 12:03:27 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	897319	40.000	ppb	-0.01

System Monitoring Compounds

Target Compounds Qvalue

Quantitation Report

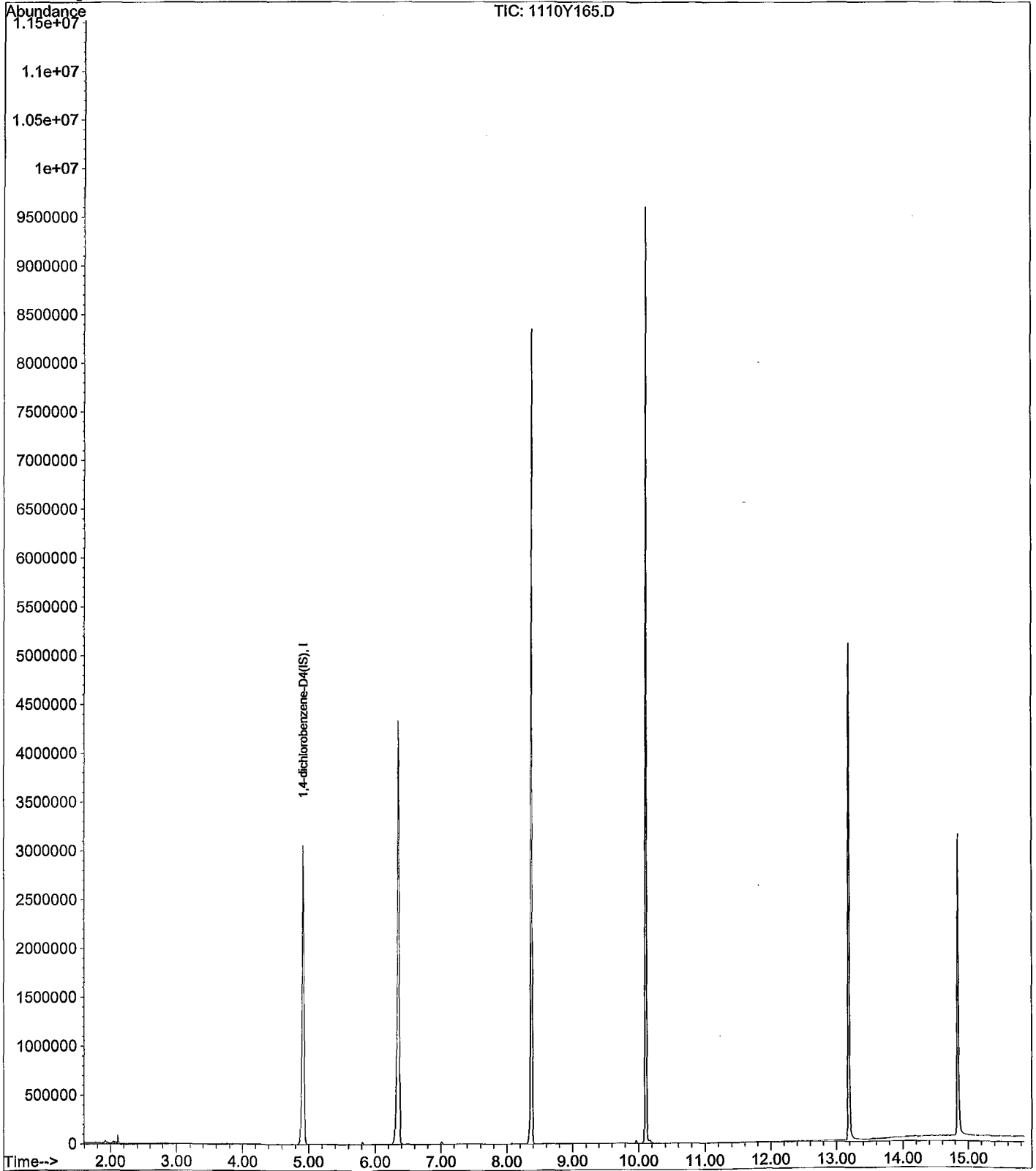
Data File : M:\YODA\DATA\Y211110M\1110Y165.D
Acq On : 27 Dec 21 14:36
Sample : 211227A BLK 2/500
Misc :

Vial: 65
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 27 13:54 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y154.D
 Acq On : 23 Dec 21 12:34
 Sample : 211223A LCS-1
 Misc : Water

Vial: 54
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Quant Time: Dec 24 5:04 2021

Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Dec 24 05:04:48 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	566021	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.27	45	324173	114.130	ppb	100

Quantitation Report

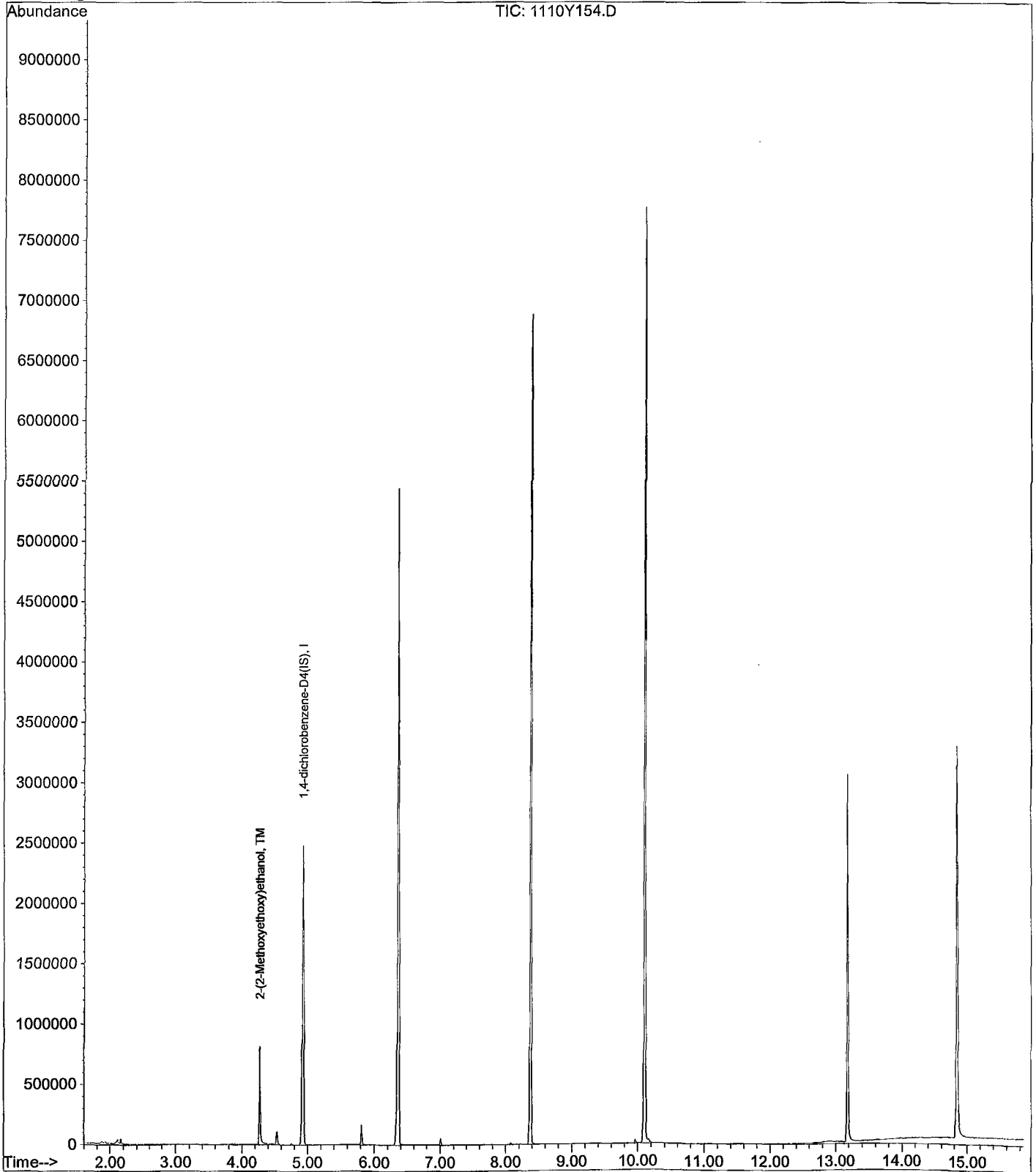
Data File : M:\YODA\DATA\Y211110M\1110Y154.D
Acq On : 23 Dec 21 12:34
Sample : 211223A LCS-1
Misc : Water

Vial: 54
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 24 5:04 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y211110M\1110Y155.D
Acq On : 23 Dec 21 12:58
Sample : 211223A LCSD-1
Misc : Water

Vial: 55
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 24 5:05 2021

Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Fri Dec 24 05:04:48 2021
Response via : Initial Calibration
DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	642500	40.000	ppb	-0.01

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.27	45	308179	96.691	ppb	99

Quantitation Report

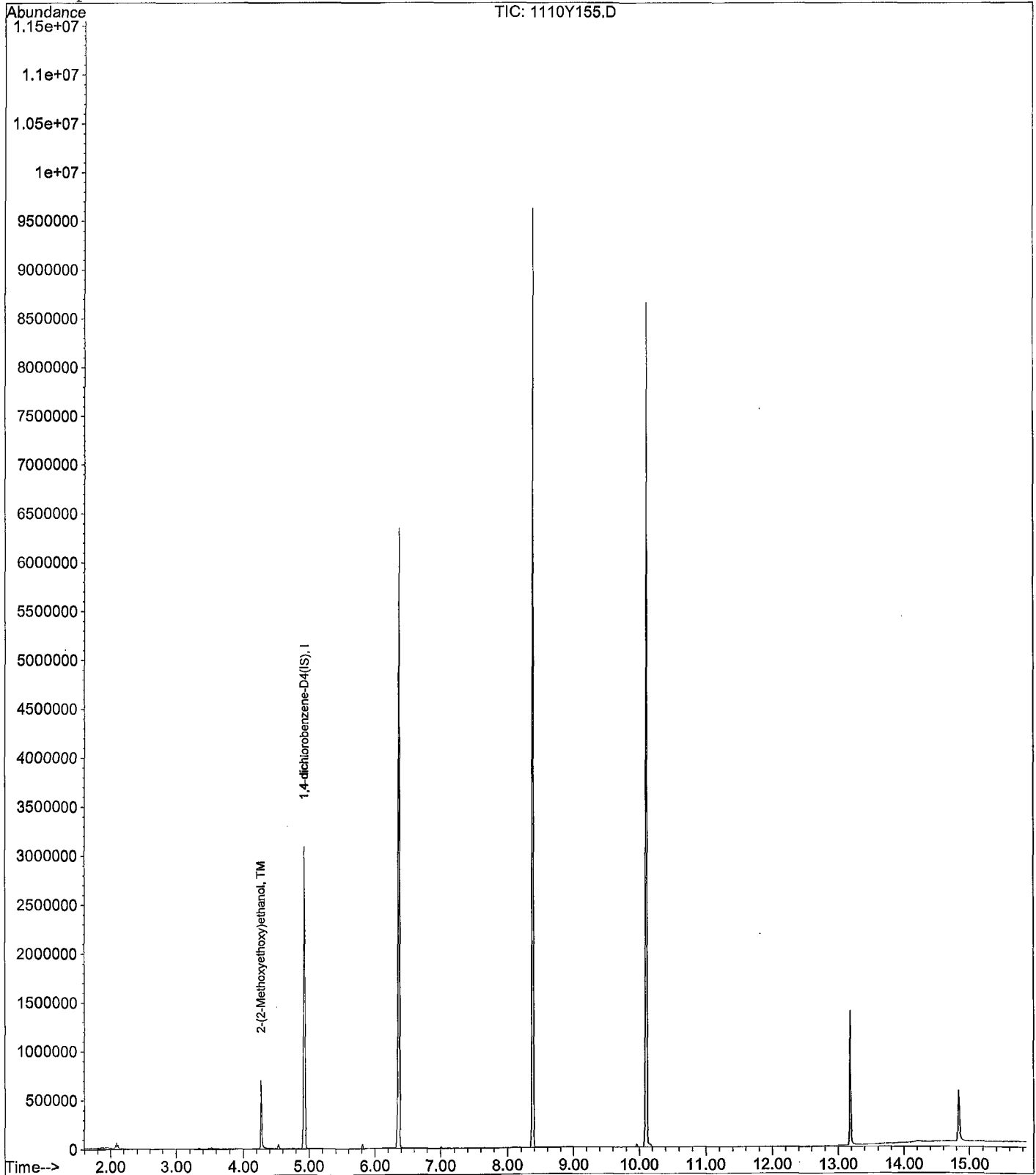
Data File : M:\YODA\DATA\Y211110M\1110Y155.D
Acq On : 23 Dec 21 12:58
Sample : 211223A LCSD-1
Misc : Water

Vial: 55
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 24 5:05 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y166.D Vial: 66
 Acq On : 27 Dec 21 14:59 Operator: MA,SS
 Sample : 211227A LCS-1 2/500 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Dec 27 13:59 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Dec 27 13:59:16 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.92	152	855553	40.000	ppb	-0.02

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.29	45	285465	69.335	ppb	100

Quantitation Report

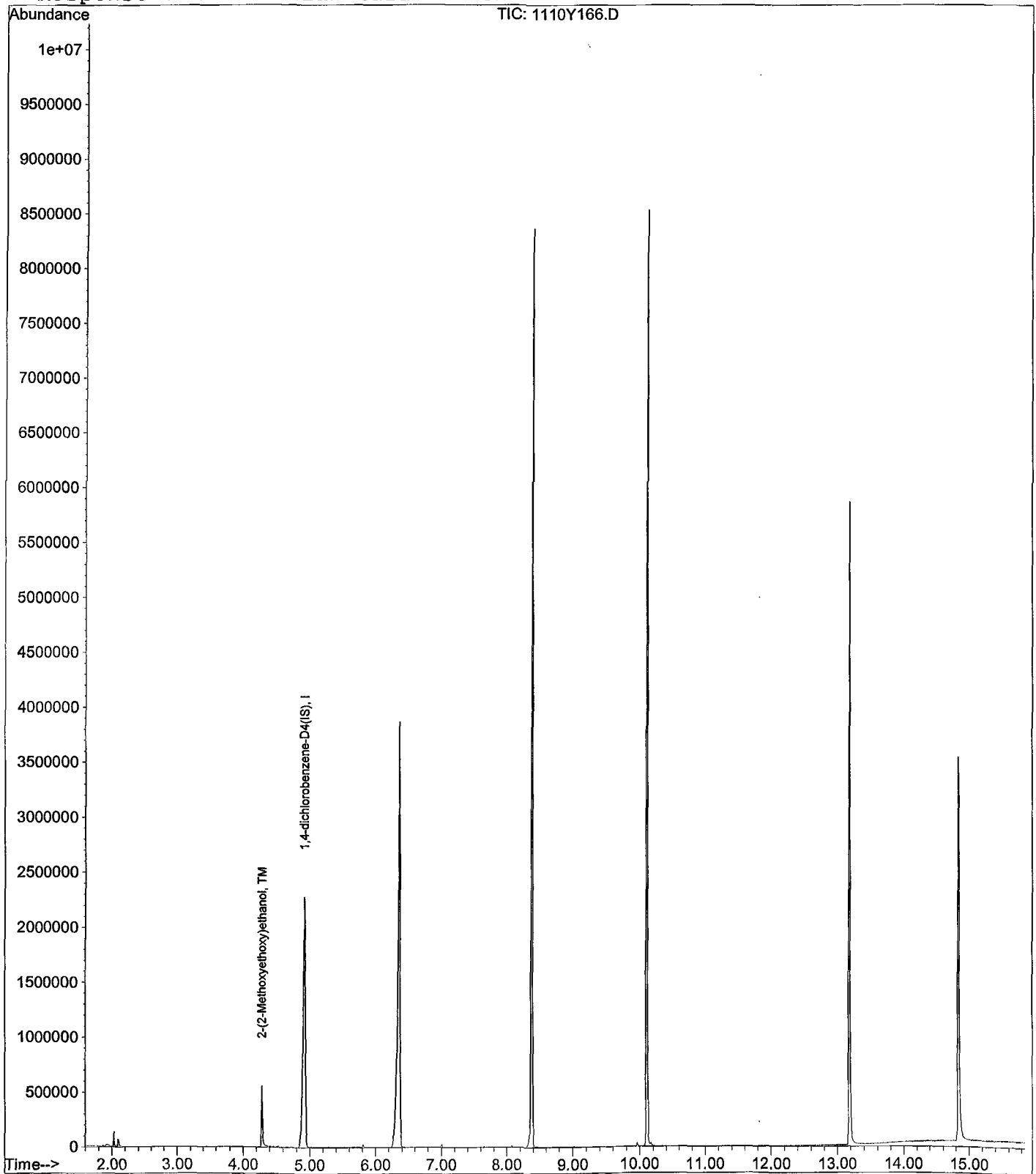
Data File : M:\YODA\DATA\Y211110M\1110Y166.D
Acq On : 27 Dec 21 14:59
Sample : 211227A LCS-1 2/500
Misc :

Vial: 66
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 27 13:59 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y167.D Vial: 67
 Acq On : 27 Dec 21 15:22 Operator: MA,SS
 Sample : 211227A LCSD-1 2/500 Inst : Yoda
 Misc : Multiplr: 1.00

Quant Time: Dec 27 14:15 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Dec 27 13:59:16 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.93	152	995972	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.27	45	311222	65.367	ppb	94

Quantitation Report

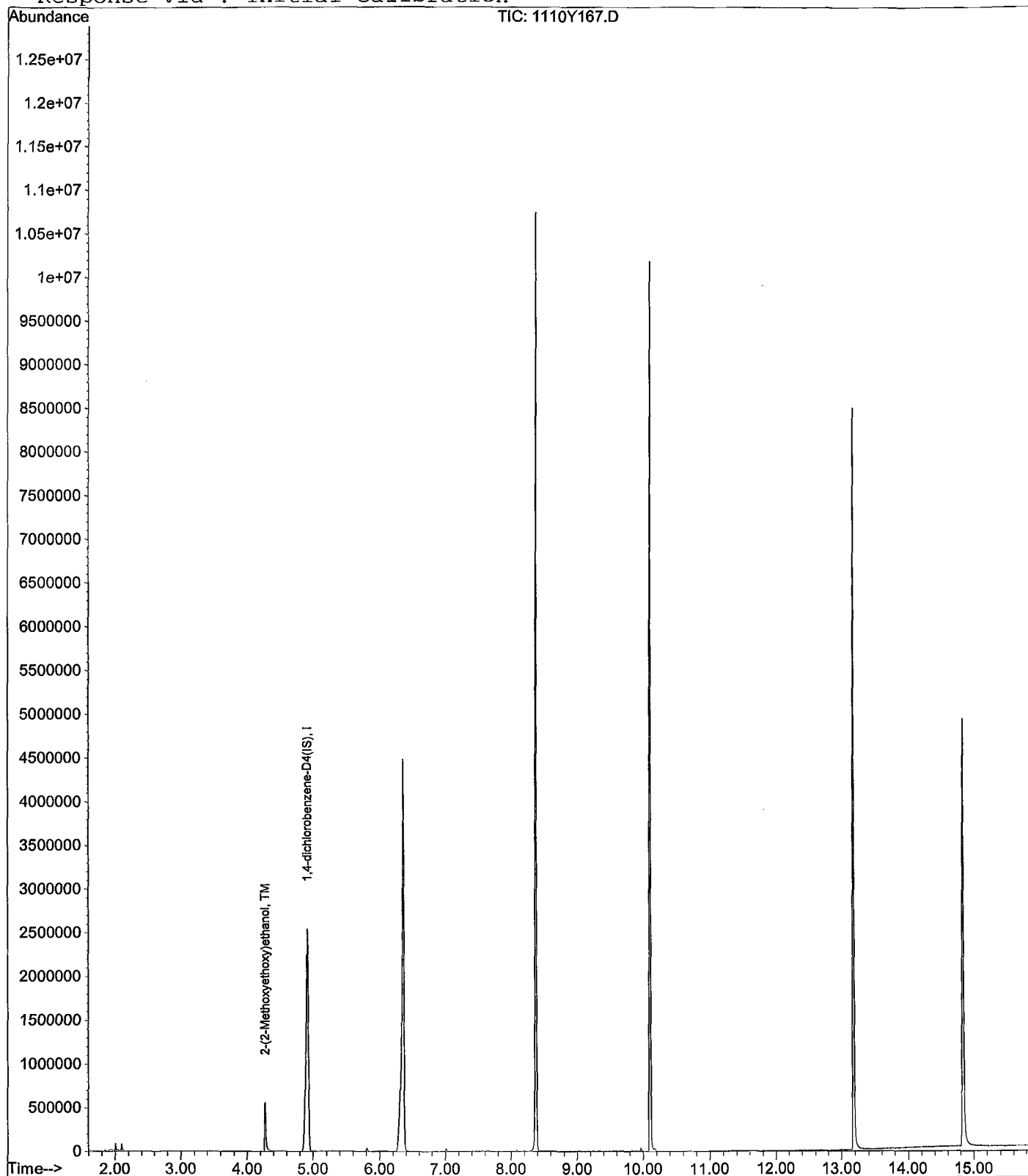
Data File : M:\YODA\DATA\Y211110M\1110Y167.D
Acq On : 27 Dec 21 15:22
Sample : 211227A LCSD-1 2/500
Misc :

Vial: 67
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00

Quant Time: Dec 27 14:15 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y162.D Vial: 62
 Acq On : 27 Dec 21 12:01 Operator: MA,SS
 Sample : BA48188 df100 MS-1 10000ug/L Inst : Yoda
 Misc : Multiplr: 100.00

Quant Time: Dec 27 11:14 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Fri Dec 24 05:04:48 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	750739	40.000	ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.12	45	340015m	9167.925	ppb	0

Quantitation Report

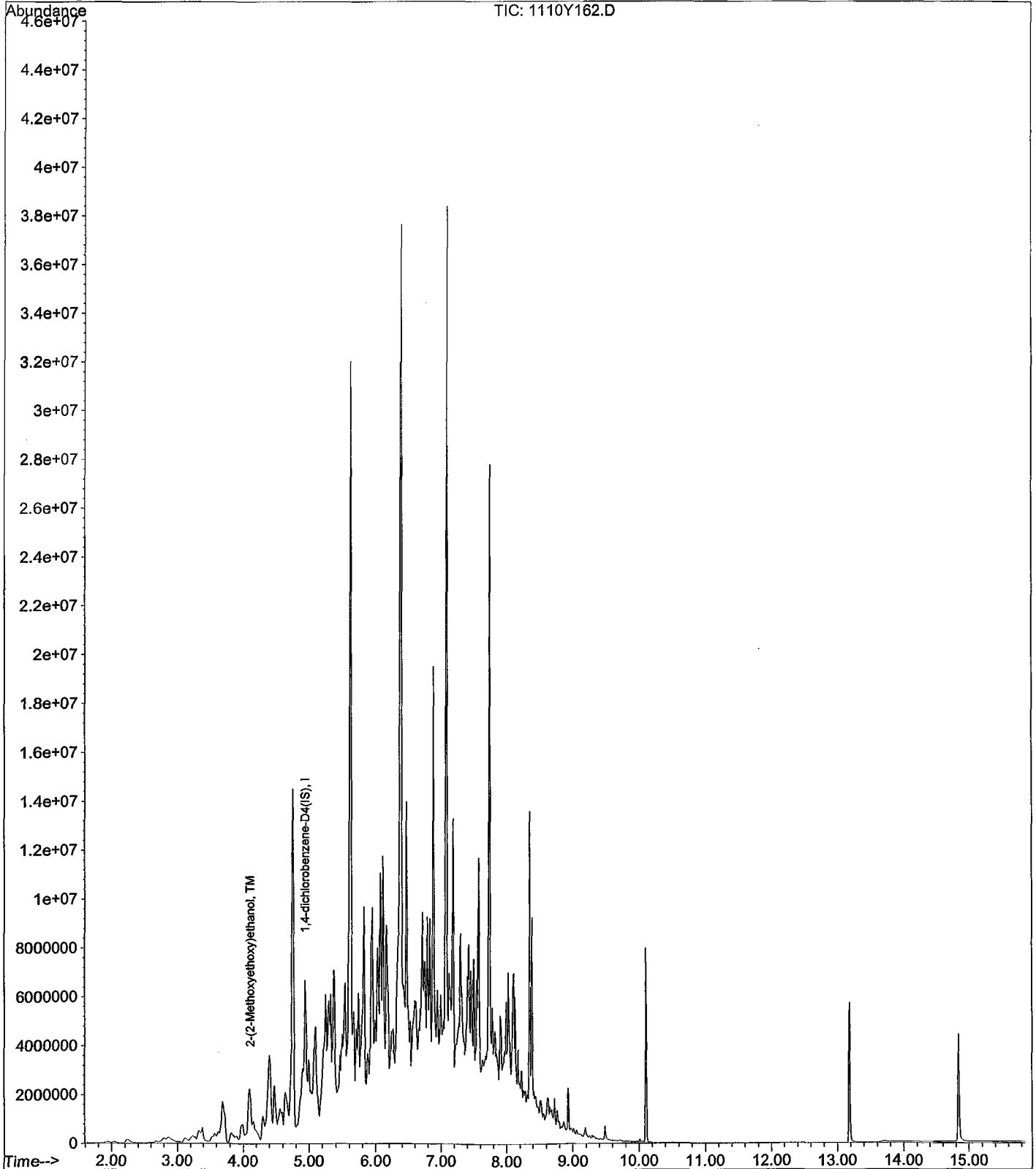
Data File : M:\YODA\DATA\Y211110M\1110Y162.D
Acq On : 27 Dec 21 12:01
Sample : BA48188 df100 MS-1 10000ug/L
Misc :

Vial: 62
Operator: MA,SS
Inst : Yoda
Multiplr: 100.00

Quant Time: Dec 27 11:14 2021

Quant Results File: MEE1222P.RES

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : M:\YODA\DATA\Y211110M\1110Y163.D Vial: 63
 Acq On : 27 Dec 21 12:24 Operator: MA,SS
 Sample : BA48188 df100 MSD-1 10000ug/L Inst : Yoda
 Misc : Multiplr: 100.00

Quant Time: Dec 27 11:25 2021 Quant Results File: MEE1222P.RES

Quant Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C
 Last Update : Mon Dec 27 11:25:30 2021
 Response via : Initial Calibration
 DataAcq Meth : GED

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
1) 1,4-dichlorobenzene-D4 (IS)	4.94	152	763948	40.000 ppb	0.00

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc Units	Qvalue
2) 2-(2-Methoxyethoxy)ethanol	4.11	45	371330	9789.265 ppb	100

Quantitation Report

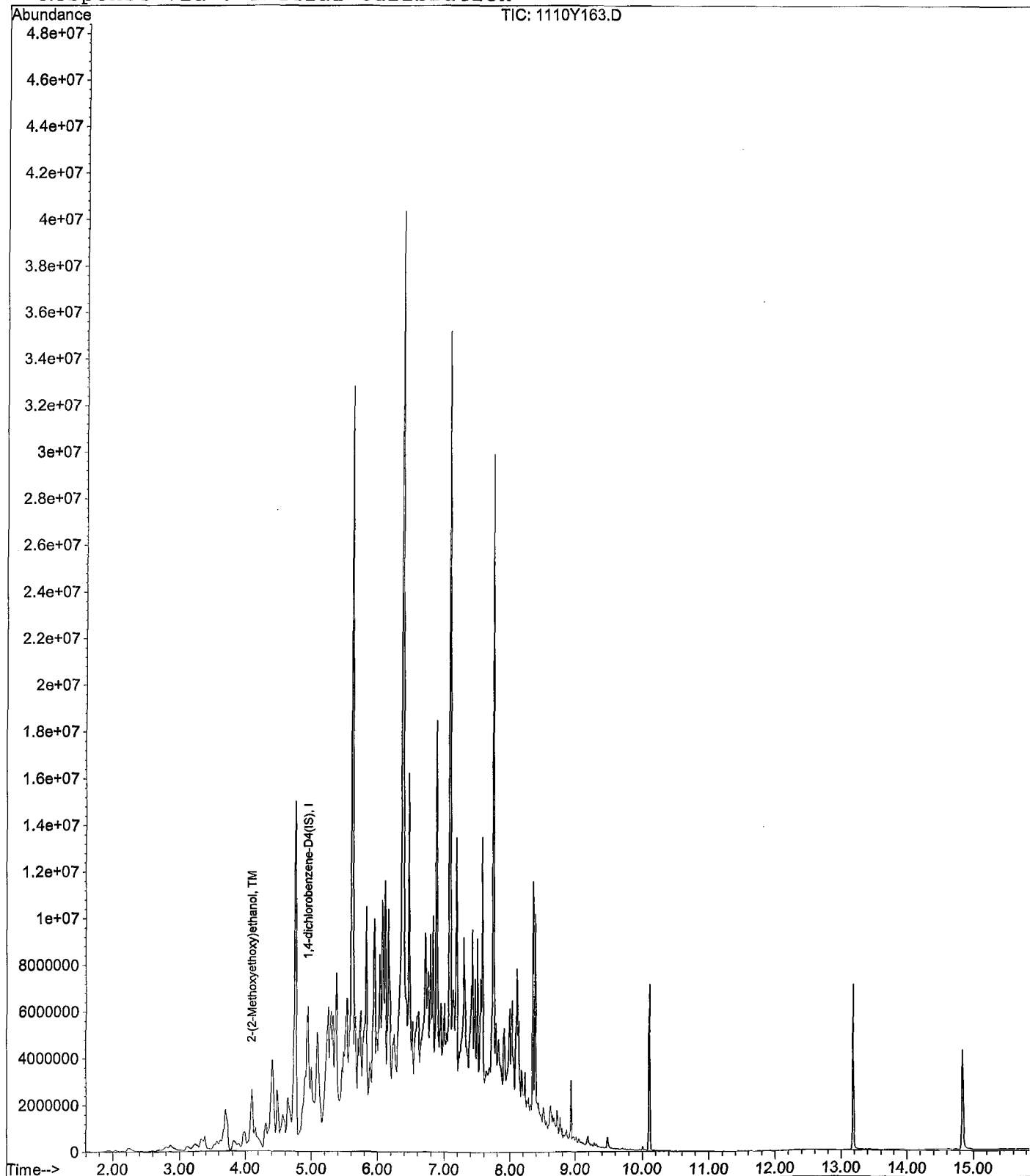
Data File : M:\YODA\DATA\Y211110M\1110Y163.D
Acq On : 27 Dec 21 12:24
Sample : BA48188 df100 MSD-1 10000ug/L
Misc :

Vial: 63
Operator: MA,SS
Inst : Yoda
Multiplr: 100.00

Quant Time: Dec 27 11:25 2021

Quant Results File: MEE1222P.RES

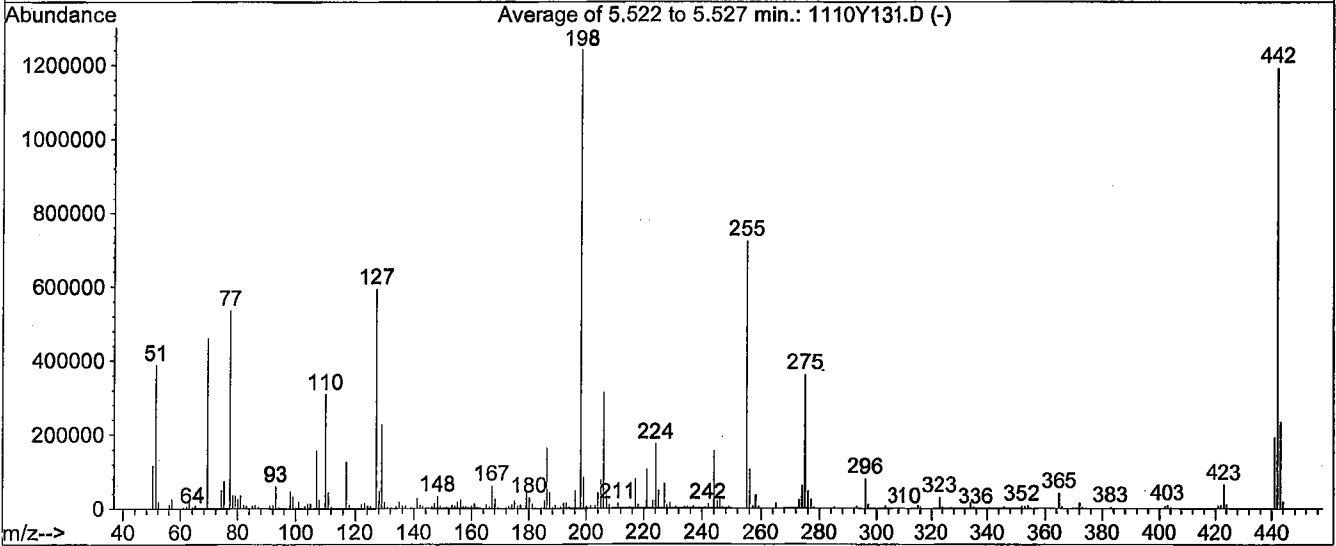
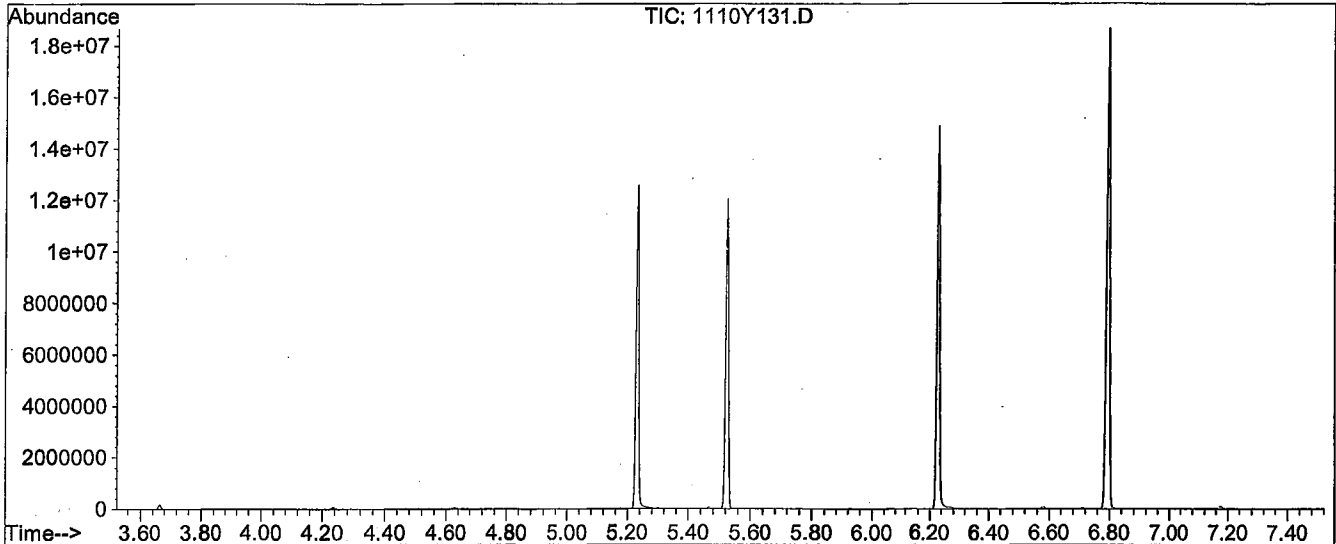
Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
Title : EPA 8270C
Last Update : Mon Dec 27 15:25:15 2021
Response via : Initial Calibration



Data File : M:\YODA\DATA\Y211110M\1110Y131.D
 Acq On : 22 Dec 21 11:54
 Sample : SV TUNE 7/2/21
 Misc : Water

Vial: 31
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 775, 776, 777; Background Corrected with Scan 766

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.3	388676	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	47.8	594112	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1242453	PASS
199	198	5	9	6.8	84880	PASS
275	198	10	60	29.1	362112	PASS
365	198	1	100	3.4	41949	PASS
441	442	0.01	24	16.3	194283	PASS
442	198	50	500	96.1	1194411	PASS
443	442	15	24	19.7	235499	PASS

Data File Name: 1110Y131.D
Data File Path: M:\YODA\DATA\Y211110M\
Operator: MA,SS
Date Acquired: 22 Dec 2021 11:54
Method File: DFTPP2.M
Sample Name: SV TUNE 7/2/21
Vial Number: 31
Instrument Name: Yoda

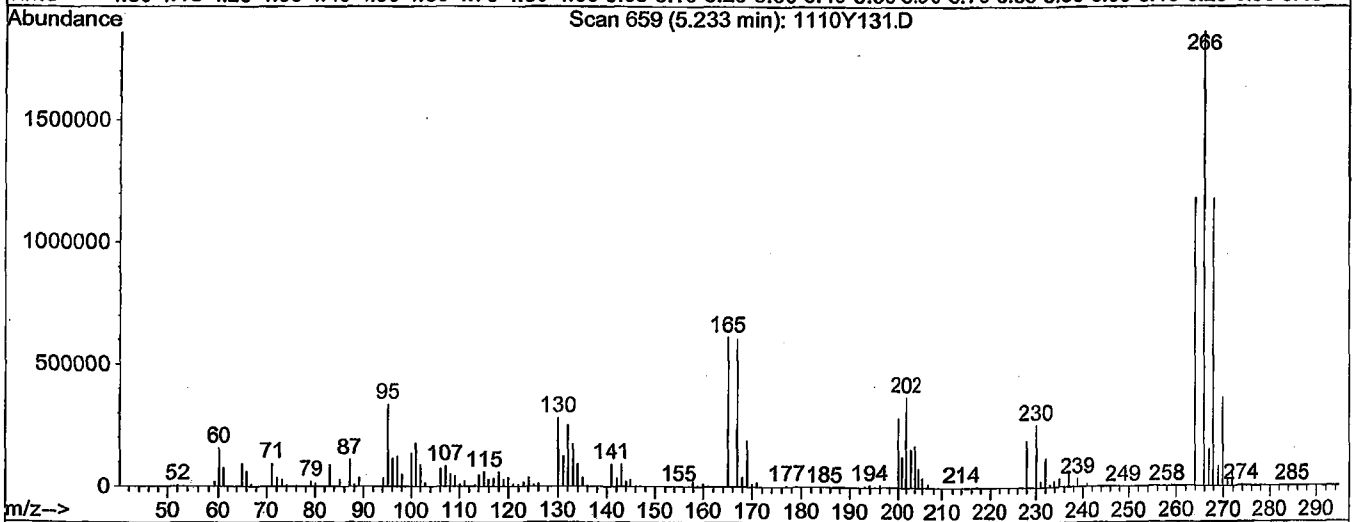
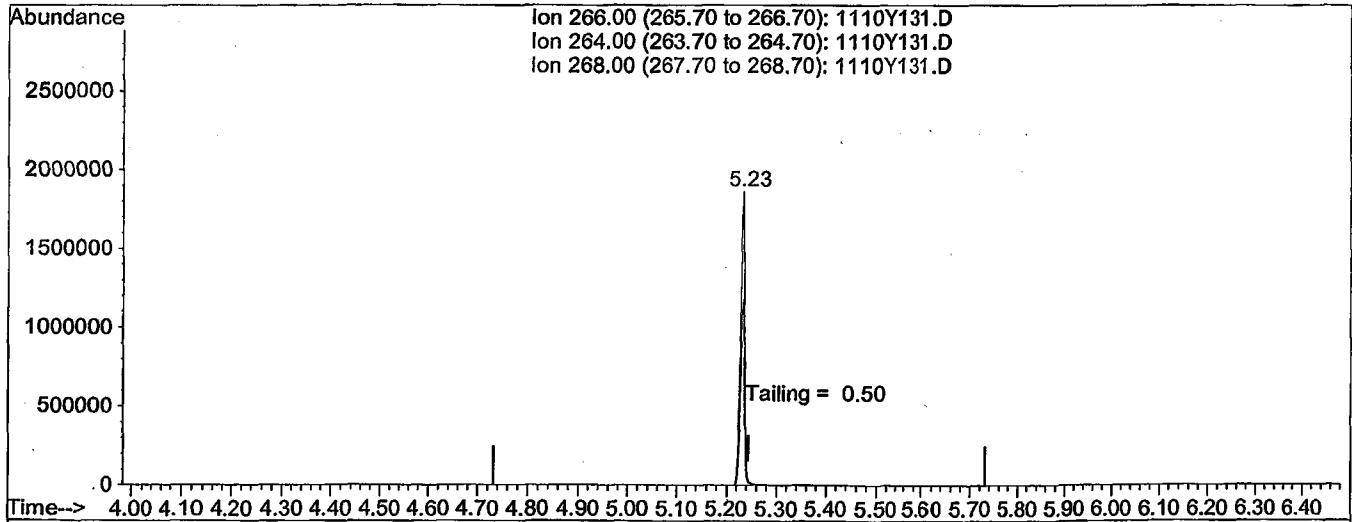
#	Name	Ret Time	Target Response
1)	DDT	6.79	131760000
2)	DDD	6.58	666890
3)	DDE	6.40	0

Breakdown 0.50

Data File : M:\YODA\DATA\Y211110M\1110Y131.D
Acq On : 22 Dec 21 11:54
Sample : SV TUNE 7/2/21
Misc : Water
Quant Time: Dec 22 12:47 2021

Vial: 31
Operator: MA,SS
Inst : Yoda
Multiplr: 1.00
Quant Results File: temp.res

Method : M:\YODA\DATA\Y211110M\DFTPP2.M (Chemstation Integrator)
Title :
Last Update : Wed Dec 22 12:47:47 2021
Response via : Single Level Calibration



TIC: 1110Y131.D

(5) Pentachlorophenol

5.23min 0.0000

response 10753567

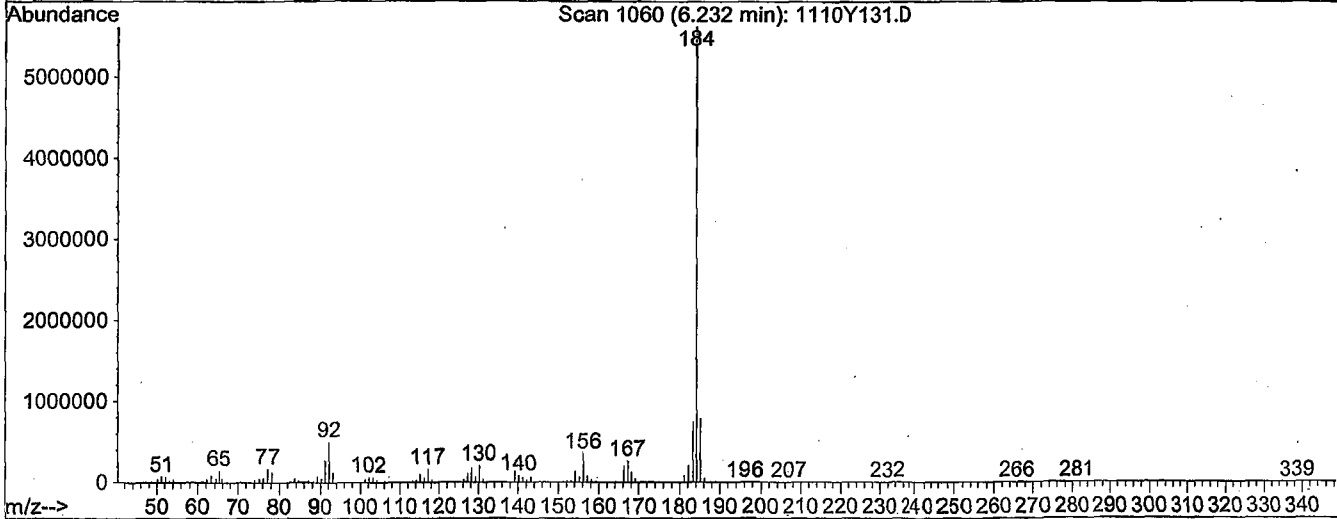
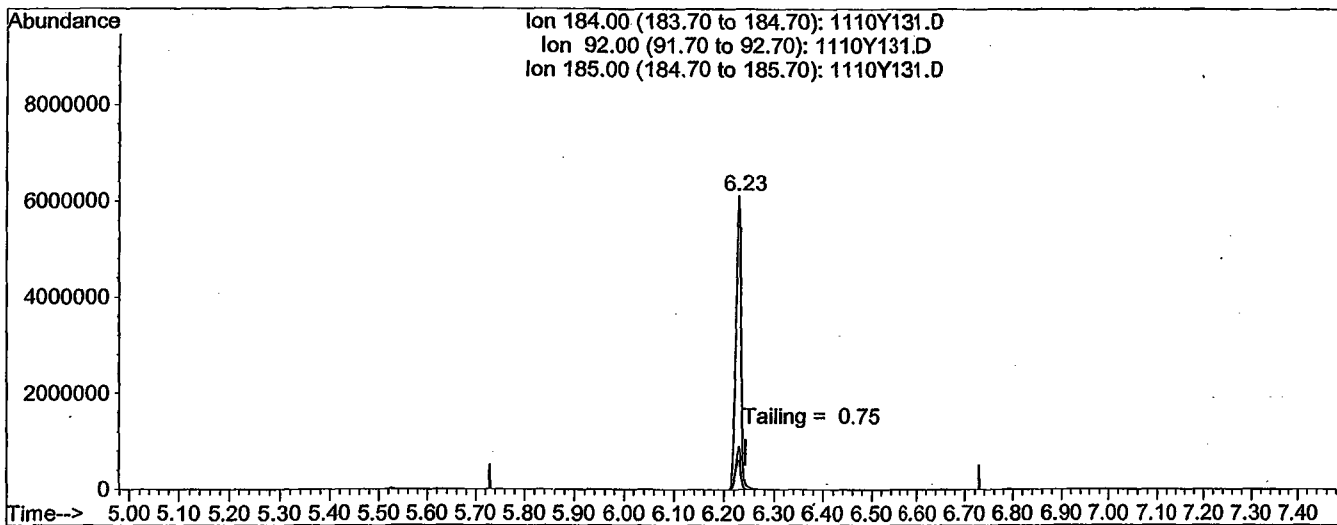
Ion	Exp%	Act%
266.00	100	100
264.00	63.50	63.15
268.00	63.40	63.85
0.00	0.00	0.00

QUANTIFICATION REPORT

Data File : M:\YODA\DATA\Y211110M\1110Y131.D
 Acq On : 22 Dec 21 11:54
 Sample : SV TUNE 7/2/21
 Misc : Water
 Quant Time: Dec 22 12:47 2021

Vial: 31
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y211110M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Dec 22 12:47:47 2021
 Response via : Single Level Calibration



TIC: 1110Y131.D

(6) Benzidine

6.23min 0.0000

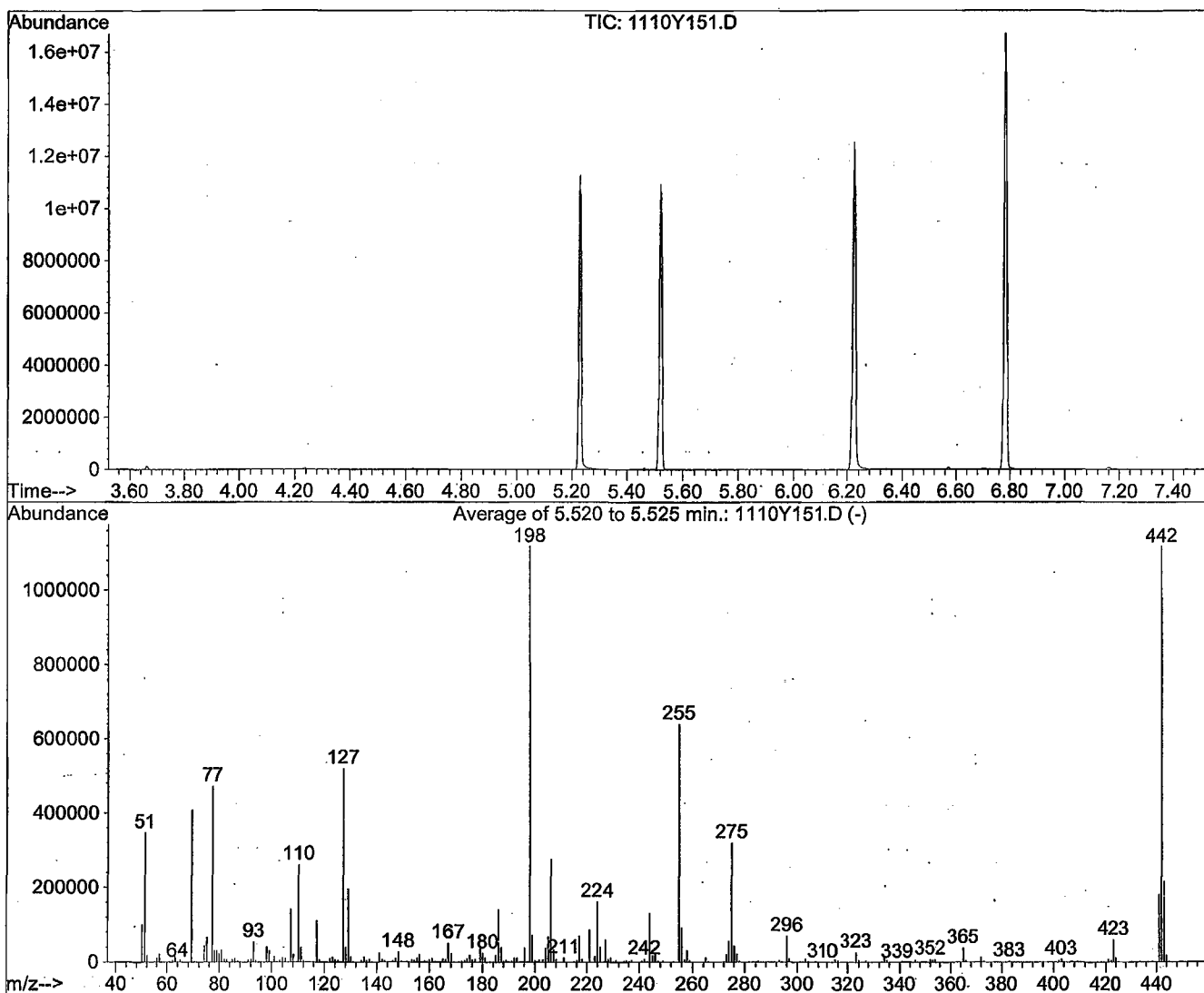
response 42805769

Ion	Exp%	Act%
184.00	100	100
92.00	10.20	10.18
185.00	14.80	14.33
0.00	0.00	0.00

Data File : M:\YODA\DATA\Y211110M\1110Y151.D
 Acq On : 23 Dec 21 11:29
 Sample : SV TUNE 7/2/21
 Misc : Water

Vial: 51
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 774, 775, 776; Background Corrected with Scan 765

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.1	348185	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.7	2700	PASS
127	198	10	80	46.5	520832	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1119339	PASS
199	198	5	9	6.6	73757	PASS
275	198	10	60	28.6	320661	PASS
365	198	1	100	3.4	38320	PASS
441	442	0.01	24	16.3	182763	PASS
442	198	50	500	100.1	1120789	PASS
443	442	15	24	19.4	217600	PASS

M:\YODA\DATA\Y211110M\1110Y151.D

Data File Name: 1110Y151.D
Data File Path: M:\YODA\DATA\Y211110M\
Operator: MA,SS
Date Acquired: 23 Dec 2021 11:29
Method File: DFTPP2.M
Sample Name: SV TUNE 7/2/21
Vial Number: 51
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.79	119061000
2)	DDD	6.58	532036
3)	DDE	6.40	0

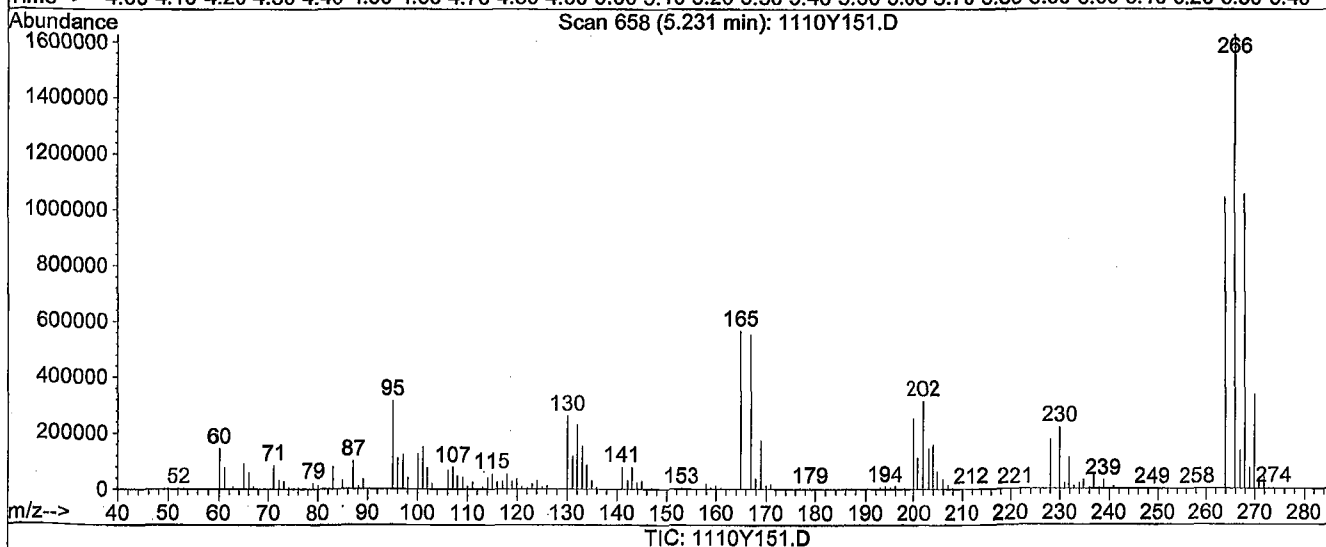
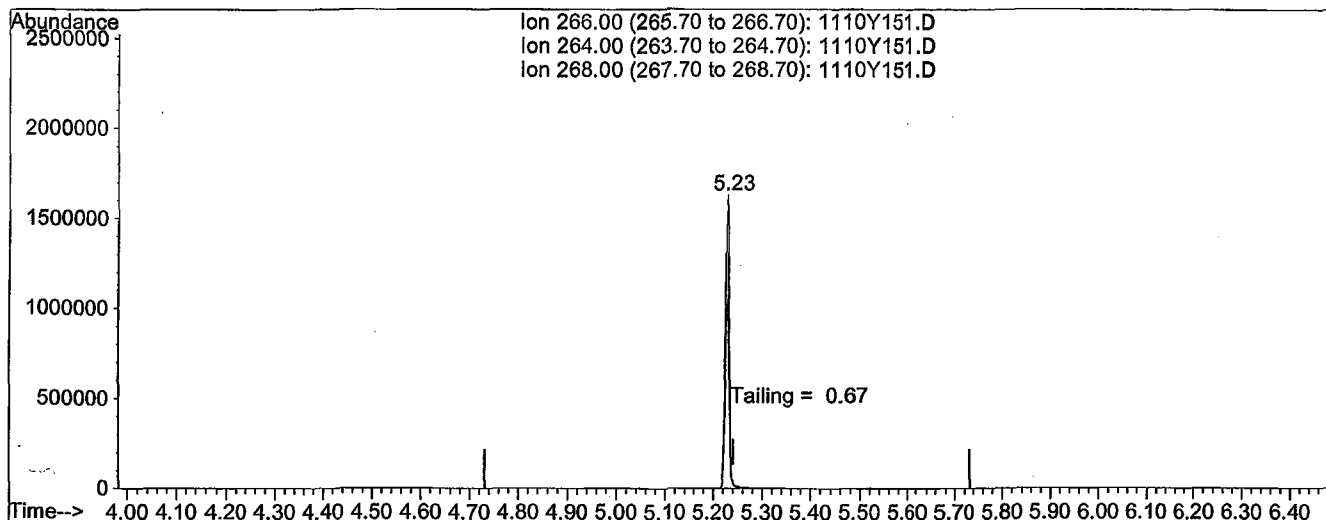
Breakdown 0.44

Quantitation Report

Data File : M:\YODA\DATA\Y211110M\1110Y151.D
 Acq On : 23 Dec 21 11:29
 Sample : SV TUNE 7/2/21
 Misc : Water
 Quant Time: Dec 23 10:23 2021

Vial: 51
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y211110M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Dec 22 12:47:47 2021
 Response via : Single Level Calibration



(5) Pentachlorophenol

5.23min 0.0000

response 9252419

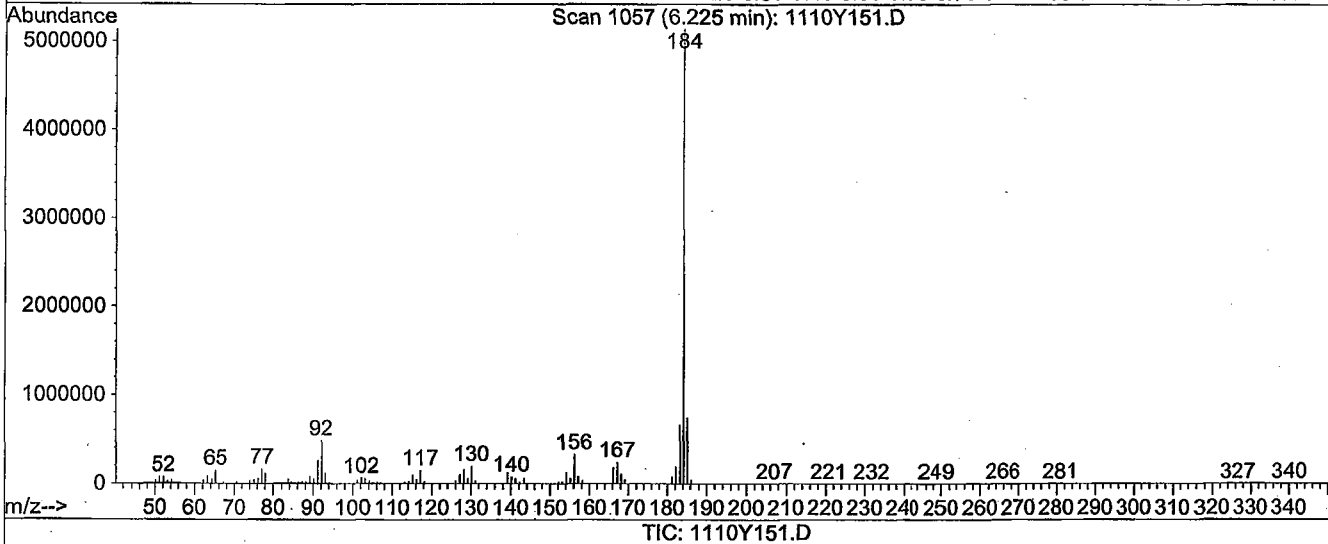
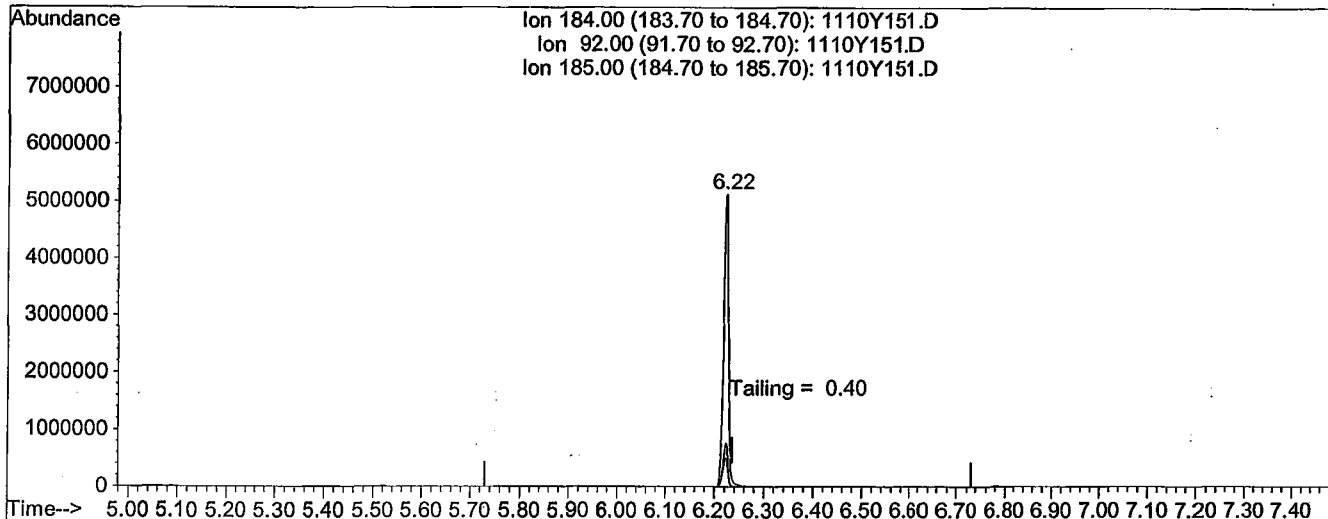
Ion	Exp%	Act%
266.00	100	100
264.00	63.50	64.28
268.00	63.40	64.07
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y211110M\1110Y151.D
 Acq On : 23 Dec 21 11:29
 Sample : SV TUNE 7/2/21
 Misc : Water
 Quant Time: Dec 23 10:23 2021

Vial: 51
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y211110M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Dec 22 12:47:47 2021
 Response via : Single Level Calibration



(6) Benzidine

6.22min 0.0000

response 35910089

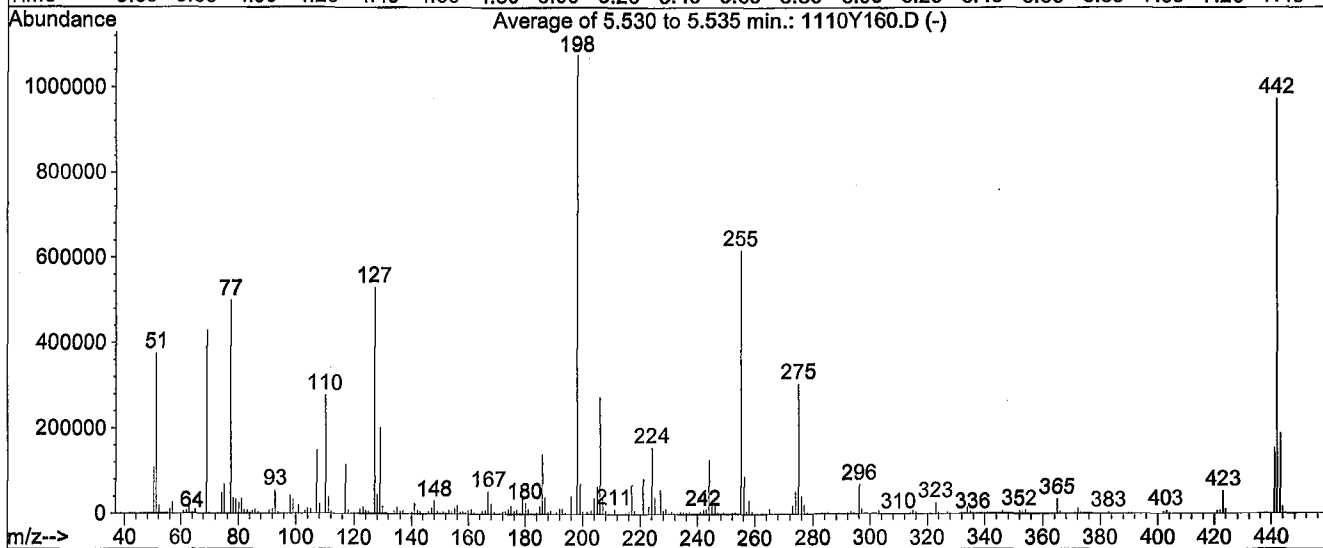
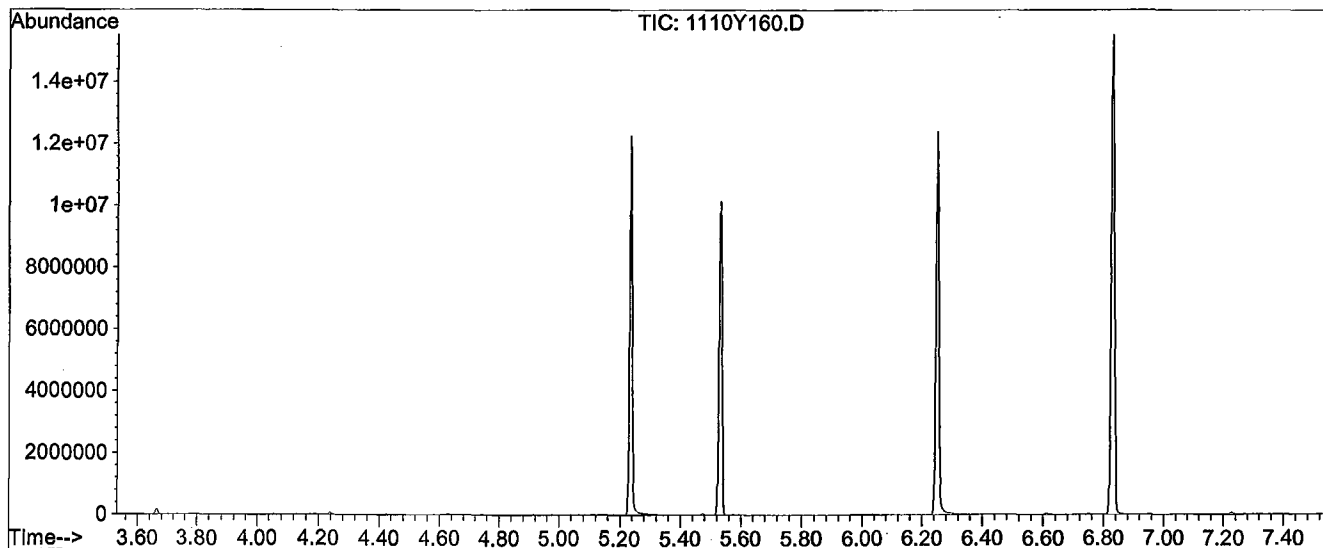
Ion	Exp%	Act%
184.00	100	100
92.00	10.20	10.00
185.00	14.80	14.82
0.00	0.00	0.00

DFTPP

Data File : M:\YODA\DATA\Y211110M\1110Y160.D
 Acq On : 27 Dec 21 10:29
 Sample : SV TUNE 7/2/21
 Misc :

Vial: 60
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00

Method : M:\YODA\DATA\Y211110M\MEE1222P.M (RTE Integrator)
 Title : EPA 8270C



AutoFind: Scans 777, 778, 779; Background Corrected with Scan 768

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.9	375490	PASS
68	69	0.00	2	0.0	0	PASS
70	69	0.00	2	0.6	2606	PASS
127	198	10	80	49.3	530432	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	1076267	PASS
199	198	5	9	6.6	71195	PASS
275	198	10	60	28.4	305408	PASS
365	198	1	100	3.2	34157	PASS
441	442	0.01	24	15.9	154595	PASS
442	198	50	500	90.4	973232	PASS
443	442	15	24	19.5	189824	PASS

M:\YODA\DATA\Y211110M\1110Y160.D

Data File Name: 1110Y160.D
Data File Path: M:\YODA\DATA\Y211110M\
Operator: MA,SS
Date Acquired: 27 Dec 2021 10:29
Method File: DFTPP2.M
Sample Name: SV TUNE 7/2/21
Vial Number: 60
Instrument Name: Yoda

#	Name	Ret Time	Target Response
1)	DDT	6.79	117595000
2)	DDD	6.58	368987
3)	DDE	6.40	135280

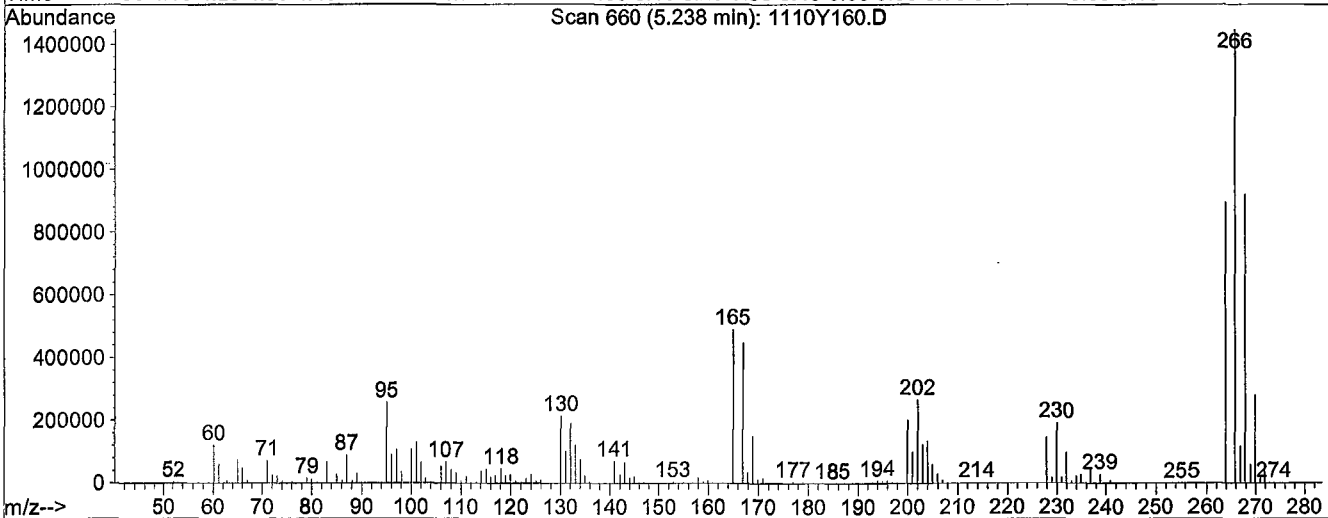
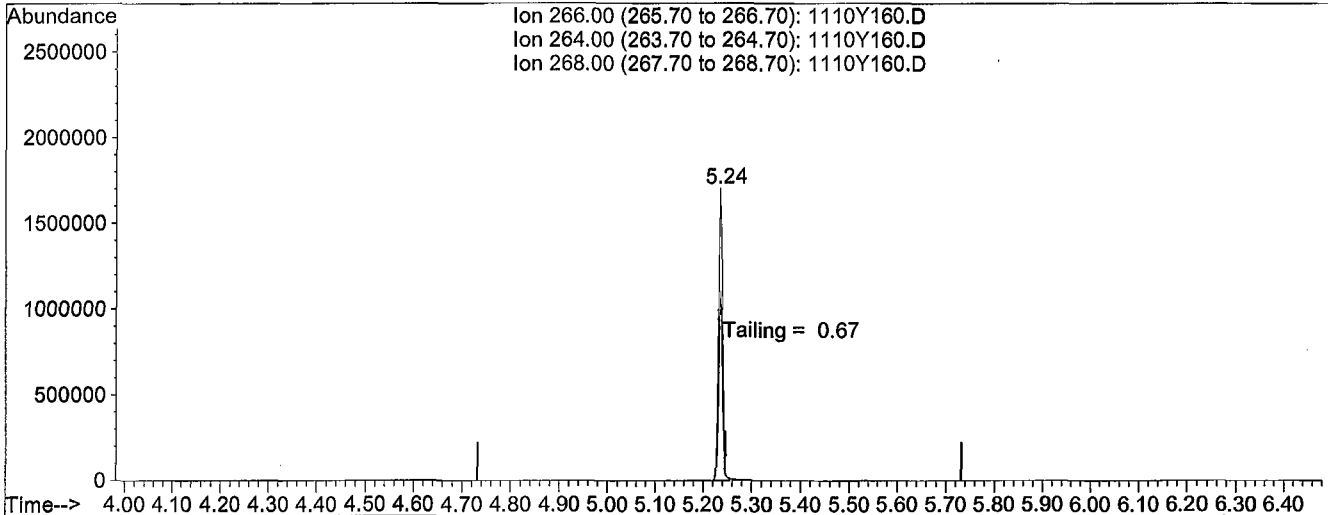
Breakdown 0.43

Quantitation Report

Data File : M:\YODA\DATA\Y211110M\1110Y160.D
 Acq On : 27 Dec 21 10:29
 Sample : SV TUNE 7/2/21
 Misc :
 Quant Time: Dec 27 9:55 2021

Vial: 60
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y211110M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Dec 22 12:47:47 2021
 Response via : Single Level Calibration



TIC: 1110Y160.D

(5) Pentachlorophenol

5.24min 0.0000

response 9620406

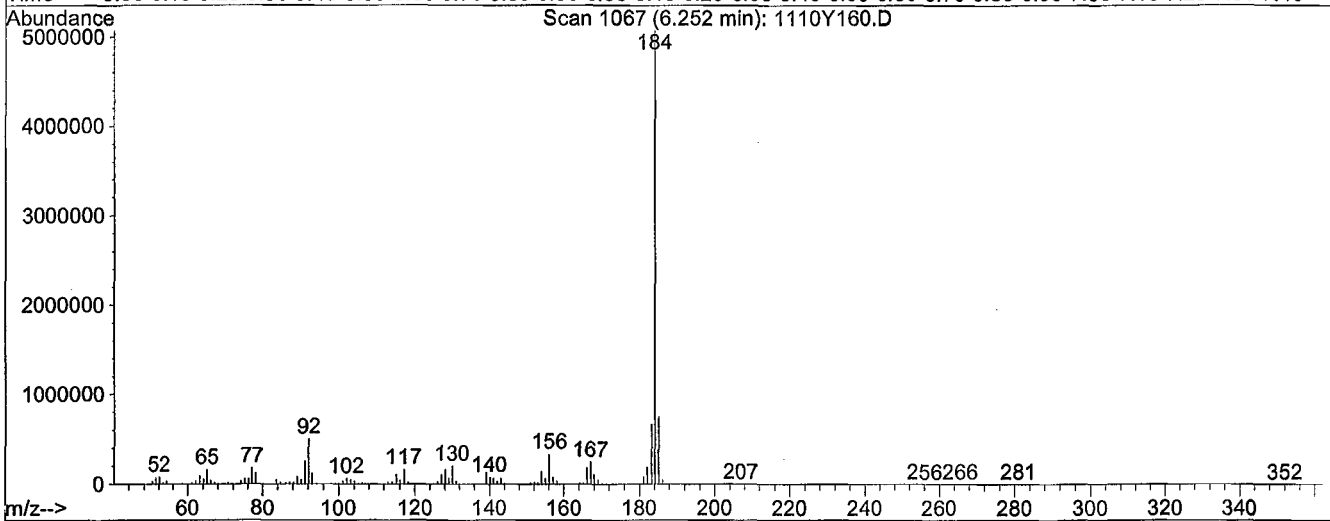
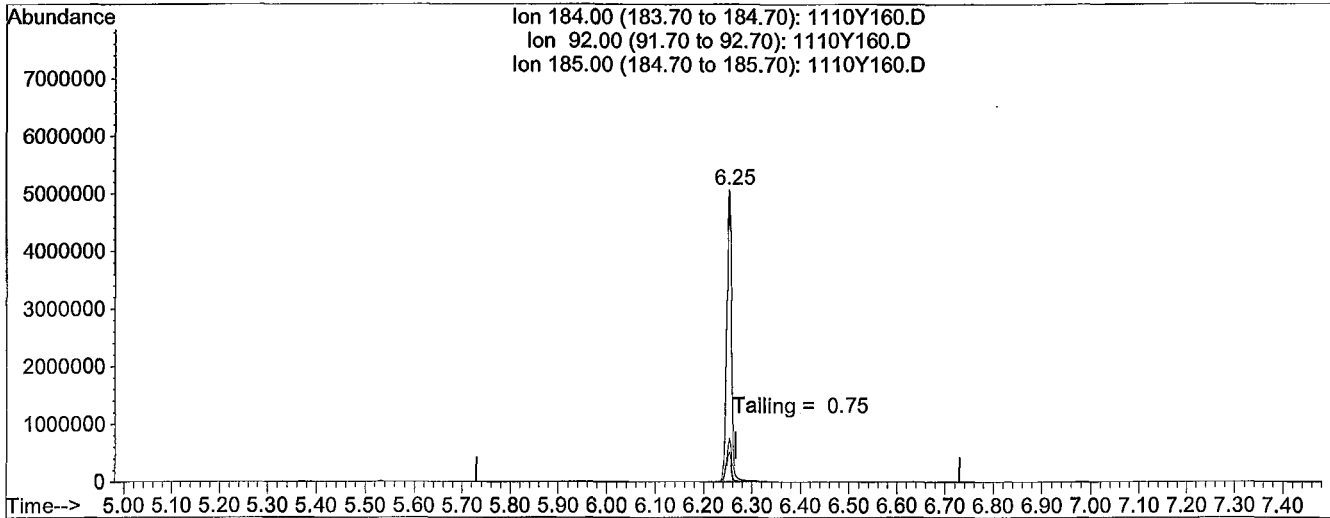
Ion	Exp%	Act%
266.00	100	100
264.00	63.50	62.71
268.00	63.40	63.58
0.00	0.00	0.00

Quantitation Report

Data File : M:\YODA\DATA\Y211110M\1110Y160.D
 Acq On : 27 Dec 21 10:29
 Sample : SV TUNE 7/2/21
 Misc :
 Quant Time: Dec 27 9:55 2021

Vial: 60
 Operator: MA,SS
 Inst : Yoda
 Multiplr: 1.00
 Quant Results File: temp.res

Method : M:\YODA\DATA\Y211110M\DFTPP2.M (Chemstation Integrator)
 Title :
 Last Update : Wed Dec 22 12:47:47 2021
 Response via : Single Level Calibration



(6) Benzidine

6.25min 0.0000

response 34578587

Ion	Exp%	Act%
184.00	100	100
92.00	10.20	10.11
185.00	14.80	14.83
0.00	0.00	0.00

Injection Log

Directory: M:\YODA\DATA\Y211110M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
31	1110Y131.D	1	SV TUNE 7/2/21	Water	22 Dec 21 11:54
41	1110Y141.D	1	1ug/ml MEE 12/22/21	Water	22 Dec 21 20:00
42	1110Y142.D	1	10ug/ml MEE 12/22/21	Water	22 Dec 21 20:24
43	1110Y143.D	1	50ug/ml MEE 11/08/21	Water	22 Dec 21 20:47
44	1110Y144.D	1	100ug/ml MEE 11/08/21	Water	22 Dec 21 21:10
45	1110Y145.D	1	200ug/ml MEE 11/08/21	Water	22 Dec 21 21:33
46	1110Y146.D	1	500ug/ml MEE 11/08/21	Water	22 Dec 21 21:56
47	1110Y147.D	1	800ug/ml MEE 11/08/21	Water	22 Dec 21 22:19
48	1110Y148.D	1	1000ug/ml MEE 11/08/21	Water	22 Dec 21 22:42
51	1110Y151.D	1	SV TUNE 7/2/21	Water	23 Dec 21 11:29
52	1110Y152.D	1	SS 500ug/ml MEE 11/08/21	Water	23 Dec 21 11:44
53	1110Y153.D	1	211223A BLK	Water	23 Dec 21 12:11
54	1110Y154.D	1	211223A LCS-1	Water	23 Dec 21 12:34
55	1110Y155.D	1	211223A LCSD-1	Water	23 Dec 21 12:58
56	1110Y156.D	1	BA48188 df100	Water	23 Dec 21 15:11
57	1110Y157.D	1	500ug/ml (2) MEE 11/08/21		23 Dec 21 15:34
60	1110Y160.D	1	SV TUNE 7/2/21		27 Dec 21 10:29
61	1110Y161.D	1	500ug/ml (1) MEE 11/08/21		27 Dec 21 10:44
65	1110Y165.D	1	211227A BLK 2/500		27 Dec 21 14:36
66	1110Y166.D	1	211227A LCS-1 2/500		27 Dec 21 14:59
67	1110Y167.D	1	211227A LCSD-1 2/500		27 Dec 21 15:22
69	1110Y169.D	100	BA48198M02 2/500 df100		27 Dec 21 16:32
70	1110Y170.D	1	500ug/ml (1) MEE 11/08/21		27 Dec 21 16:55

Name of Final Standard 2MEE Curve
 Prep Date 12/22/2021
 Exp Date 9/23/2022

Prep'd By (Initials) LS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
10 ug/mL 2MEE	APPL		2000 ug/mL	12/22/2021	11/2/2022	10 uL	100uL	Methanol 90uL Lot# 60303	1 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	12/22/2021	11/2/2022	1 uL	200uL	Methanol 199uL Lot# 60303	10 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	5 uL	200uL	Methanol 195uL Lot# 60303	50 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	5 uL	100uL	Methanol 95uL Lot# 60303	100 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	10 uL	100uL	Methanol 90uL Lot# 60303	200 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	50 uL	200 uL	Methanol 150 uL Lot# 60303	500 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	4 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	40 uL	100uL	Methanol 60 uL Lot# 60303	800 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL			
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	50 uL	100uL	Methanol 50uL Lot# 60303	1000 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL			

Name of Final Standard 2MEE Second Source
 Prep Date 12/22/2021
 Exp Date 7/31/2022

Prep'd By (Initials) LS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
MEE SS (w/o extract)	APPL		2000 ug/mL	11/3/2021	7/31/2022	50 uL	200uL	Methanol 150uL Lot# 60303	500 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	4 uL			

Name of Final Standard 2MEE Curve
 Prep Date 11/8/2021
 Exp Date 9/23/2022

Prep'd By (Initials) LS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	5 uL	200uL	Methanol 195uL Lot# 60303	50 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	4 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	5 uL	100uL	Methanol 95uL Lot# 60303	100 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	10 uL	100uL	Methanol 90uL Lot# 60303	200 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	20 uL	100uL	Methanol 80 uL Lot# 60303	400 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	50 uL	200 uL	Methanol 150 uL Lot# 60303	500 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	4 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	30 uL	100uL	Methanol 70 uL Lot# 60303	600 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	40 uL	100uL	Methanol 60 uL Lot# 60303	800 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL	*	*	*
MEE M STD Stock	APPL		2000 ug/mL	11/2/2021	11/2/2022	50 uL	100uL	Methanol 50uL Lot# 60303	1000 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	2 uL	*	*	*

Name of Final Standard 2MEE Second Source
 Prep Date 11/8/2021
 Exp Date 7/31/2022

Prep'd By (Initials) LS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	11/3/2021	7/31/2022	50 uL	200uL	Methanol 180uL Lot# 60303	500 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	4 uL	*	*	*

Name of Final Standard 2MEE Second Source
 Prep Date 11/8/2021
 Exp Date 7/31/2022

Prep'd By (Initials) LS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
MEE SS	APPL		2000 ug/mL	11/3/2021	7/31/2022	50 uL	200uL	Methanol 180uL Lot# 60303	500 ug/mL
SV Internal Standard	APPL	8270 Internal Standard	2000 ug/mL	9/23/2021	9/23/2022	4 uL	*	*	*

Name of Final Standard 2MEE STOCK (Diethylene Glycol)
 Prep Date 11/2/2021
 Exp Date 11/2/2022

Prep'd By (Initials) IC

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc. (range)
Diethylene glycol methyl ether	AccuStandard	S-72273	2000 ug/mL	218101558-01-51172,51173	12/23/2022	2.0 mL	4 mL	Methanol #60303	1000 ug/mL

Given to Extraction to be extracted to do MEE M STD Stock (used for ICAL) Final concentration 2000ug/mL

Name of Final Standard 2MEE Second Source Stock
 Prep Date 12/22/2021
 Exp Date 7/31/2022

Prep'd By (Initials) LS

Initial Standard Information						Final Standard Information			
Name of Initial Standard (from container Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc.(range)
Methoxyethanol-Neat	Chem Service	N-12404-1G	Neat 99.5%	10417700-51771	7/31/2022	0.010 mL	10 mL	Methanol #60303	1000 ug/mL

Was not extracted and was diluted into a clear 2mL vial to make the final concentration 500 ug/mL

Organic Extraction Worksheet





Method	Solid Phase Extraction of 2MEE in Water	Extraction Set	211227A	Extraction Method	MWE2MEE	Units	mL
Spiked ID 1	2MEEEE Stock 11-2-21 11-2-22	Surrogate ID 1					
Spiked ID 2		Surrogate ID 2					
Spiked ID 3		Surrogate ID 3					
Spiked ID 4		Surrogate ID 4					
Spiked ID 5		Surrogate ID 5					
Spiked ID 6		Sufficient Vol for Matrix QC:		NO			
Spiked ID 7		Ext. Start Time:		12/27/21 8:26			
Spiked ID 8		Ext. End Time:		12/27/21 12:48			
		GC Requires Extract By:					
		pH1				Water Bath Temp 1 °C	
		pH2				Water Bath Temp 2 °C	
		pH3				Water Bath Temp 3 °C	

Spiked By: SR

Date 12/27/2021

Witnessed By: CG

Date 12/27/2021

Sample	Sample Container	Spike Amount	Spike ID	Surrogate Amount	Surrogate ID	Extract Amount	Final Volume	pH	Extract Date/Time	Comments
1	211227A Blk			NA	NA	500	2	7	12/27/21 8:26	
										
					equip					
2	211227A LCS-1	0.040	1	NA	NA	500	2	7	12/27/21 8:26	
										
					equip					
3	211227A LCSD-1	0.040	1	NA	NA	500	2	7	12/27/21 8:26	
										
					equip					
4	BA48198 BA48198M02			NA	NA	500	2	7	12/27/21 8:26	98566oil on top layer of water color yellow
										
					equip					

Solvent and Lot#	
pH Strip Lot	HC160347
Carbon Cartridge 2000mg Lot#	031077-EX
Dichloromethane (DCM)	61117
Methanol (MeOH)	61231
Di Water	12-27-21
80% MeOH: 20% DCM	12-27-21

Extraction COC Transfer	
Extraction lab employee Initials	KY
GC analyst's initials	LS
Date	12/27/21
Time	12:56
Refrigerator	6C-C

Technician's Initials	
Scanned By	SR
Sample Preparation	SR
Extraction	SR, KY
Concentration	KY
Modified	12/27/2021 2:44:27 PM

Reviewed By: KY Date 12/27/2021

Injection Log

Directory: M:\YODA\DATA\Y211110M\

Vial	FileName	Multiplier	SampleName	Misc Info	Injected
31	1110Y131.D	1	SV TUNE 7/2/21	Water	22 Dec 21 11:54
41	1110Y141.D	1	1ug/ml MEE 12/22/21	Water	22 Dec 21 20:00
42	1110Y142.D	1	10ug/ml MEE 12/22/21	Water	22 Dec 21 20:24
43	1110Y143.D	1	50ug/ml MEE 11/08/21	Water	22 Dec 21 20:47
44	1110Y144.D	1	100ug/ml MEE 11/08/21	Water	22 Dec 21 21:10
45	1110Y145.D	1	200ug/ml MEE 11/08/21	Water	22 Dec 21 21:33
46	1110Y146.D	1	500ug/ml MEE 11/08/21	Water	22 Dec 21 21:56
47	1110Y147.D	1	800ug/ml MEE 11/08/21	Water	22 Dec 21 22:19
48	1110Y148.D	1	1000ug/ml MEE 11/08/21	Water	22 Dec 21 22:42
51	1110Y151.D	1	SV TUNE 7/2/21	Water	23 Dec 21 11:29
52	1110Y152.D	1	SS 500ug/ml MEE 11/08/21	Water	23 Dec 21 11:44
53	1110Y153.D	1	211223A BLK	Water	23 Dec 21 12:11
54	1110Y154.D	1	211223A LCS-1	Water	23 Dec 21 12:34
55	1110Y155.D	1	211223A LCSD-1	Water	23 Dec 21 12:58
56	1110Y156.D	1	BA48188M01 df100	Water	23 Dec 21 15:11
57	1110Y157.D	1	500ug/ml (2) MEE 11/08/21		23 Dec 21 15:34
60	1110Y160.D	1	SV TUNE 7/2/21		27 Dec 21 10:29
61	1110Y161.D	1	500ug/ml (1) MEE 11/08/21		27 Dec 21 10:44
62	1110Y162.D	100	BA48188M01 df100 MS-1 10000ug/L		27 Dec 21 12:01
63	1110Y163.D	100	BA48188M01 df100 MSD-1 10000ug/L		27 Dec 21 12:24
65	1110Y165.D	1	211227A BLK 2/500		27 Dec 21 14:36
66	1110Y166.D	1	211227A LCS-1 2/500		27 Dec 21 14:59
67	1110Y167.D	1	211227A LCSD-1 2/500		27 Dec 21 15:22
69	1110Y169.D	100	BA48198M02 2/500 df100		27 Dec 21 16:32
70	1110Y170.D	1	500ug/ml (1) MEE 11/08/21		27 Dec 21 16:55