

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030420\
 Data File : VU037064.D
 Acq On : 05 Mar 2020 02:02
 Operator : JC/MD
 Sample : L1780-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DH1

Manual Integrations
 APPROVED

sam
 3/5/2020 3:34:59 PM

Quant Time: Mar 05 04:19:23 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M

Quant Title : VOC Analysis

QLast Update : Thu Mar 05 02:52:45 2020

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	299019	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.48	117	181478	50.00	ug/L	0.05
60) 1,4-Dichlorobenzene-d4	11.87	152	142409	50.00	ug/L	0.04

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	90978	36.23	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	72.46%
7) Chloroethane-d5	1.92	69	88786	42.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	85.46%
11) 1,1-Dichloroethene-d2	2.58	63	124596	29.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	59.26%#
21) 2-Butanone-d5	4.67	46	161962	96.16	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	96.16%
24) Chloroform-d	5.11	84	211842	55.25	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.50%
26) 1,2-Dichloroethane-d4	5.75	65	47063	18.14	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	36.28%#
32) Benzene-d6	5.83	84	356343	67.90	ug/L	0.07
Spiked Amount	50.000	Range	70 - 125	Recovery	=	135.80%#
36) 1,2-Dichloropropane-d6	6.73	67	135656	79.79	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	159.58%#
41) Toluene-d8	7.93	98	363788	74.72	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	149.44%#
43) trans-1,3-Dichloropropene-	8.21	79	55748	70.55	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	141.10%#
47) 2-Hexanone-d5	8.68	63	124763	150.07	ug/L	0.02
Spiked Amount	100.000	Range	45 - 130	Recovery	=	150.07%#
57) 1,1,2,2-Tetrachloroethane-	10.78	84	183064	76.37	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	152.74%#
64) 1,2-Dichlorobenzene-d4	12.24	152	141500	50.83	ug/L	0.04
Spiked Amount	50.000	Range	80 - 120	Recovery	=	101.66%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	2960	1.014 ug/L	99
13) Acetone	2.66	43	5855	3.379 ug/L	98
14) Carbon disulfide	2.82	76	40295	6.594 ug/L	98
16) Methylene chloride	3.07	84	9353	3.970 ug/L	97
25) Chloroform	5.13	83	893403	229.676 ug/L	99
29) Cyclohexane	5.43	56	50651	21.032 ug/L	99
33) Benzene	5.80	78	84935513m	14814.756 ug/L	
34) Trichloroethene	6.58	95	14046	9.968 ug/L	99
35) Methylcyclohexane	6.80	83	16706	6.838 ug/L #	70
42) Toluene	8.00	91	35557	5.821 ug/L	95
46) Tetrachloroethene	8.58	164	9458	10.189 ug/L	88
51) Chlorobenzene	9.47	112	71716560m	19815.929 ug/L	
62) 1,3-Dichlorobenzene	11.78	146	4234187	916.543 ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	41305021m	9049.724 ug/L	
65) 1,2-Dichlorobenzene	12.24	146	33851845m	7338.896 ug/L	
68) 1,2,4-trichlorobenzene	13.88	180	3970083	1807.088 ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	217862	99.235 ug/L	99

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Quant Time: Mar 05 04:19:23 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 05 02:52:45 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

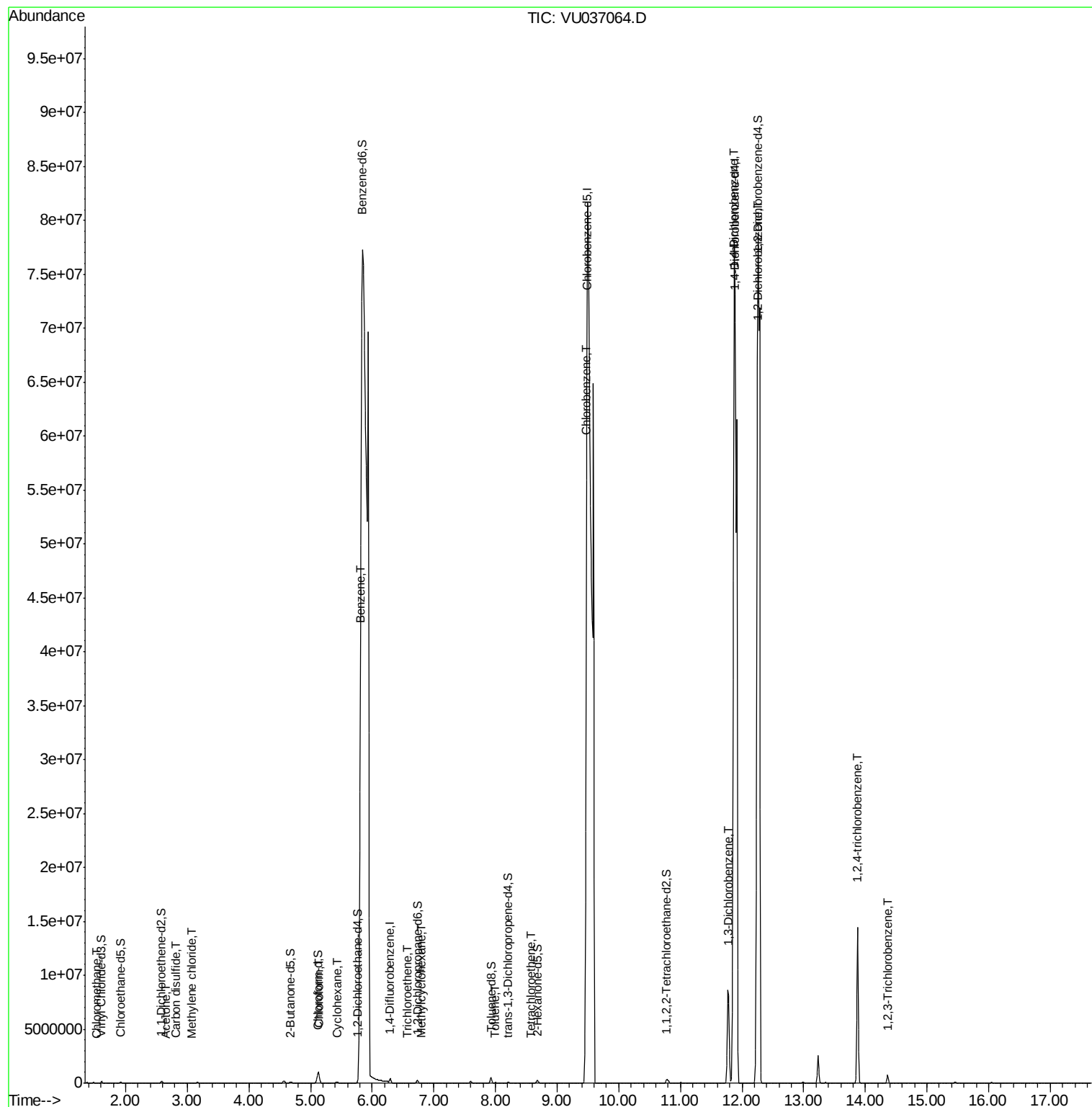
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030420\
Data File : VU037064.D
Acq On : 05 Mar 2020 02:02
Operator : JC/MD
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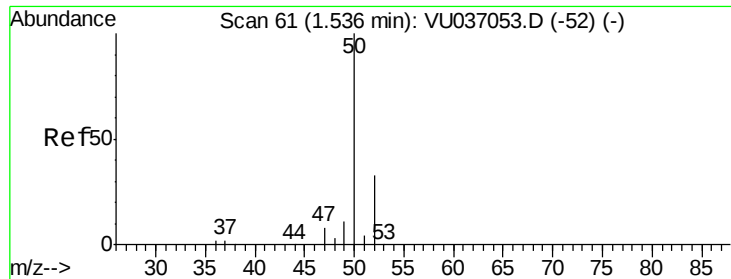
Instrument :
MSVOA_U
ClientSampleID :
C0DH1

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Quant Time: Mar 05 04:19:23 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM022420WMA.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 05 02:52:45 2020
Response via : Initial Calibration





#3

Chloromethane

Concen: 1.014 ug/L

RT: 1.53 min Scan# 59

Delta R.T. -0.01 min

Lab File: VU037064.D

Acq: 05 Mar 2020 02:02

Instrument :

MSVOA_U

ClientSampleId :

C0DH1

Tot Ion: 50 Resp: 2960

Ion Ratio Lower Upper

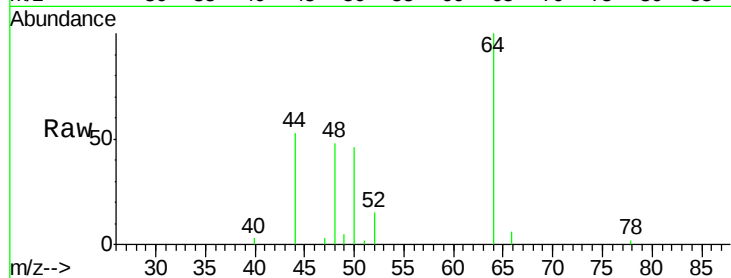
50 100

52 32.5 23.0 42.6

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Abundance Ion 50.00 (49.70 to 50.70): VU037064.D (-1) (-)

Ion 52.00 (51.70 to 52.70): VU037064.D (-1) (-)

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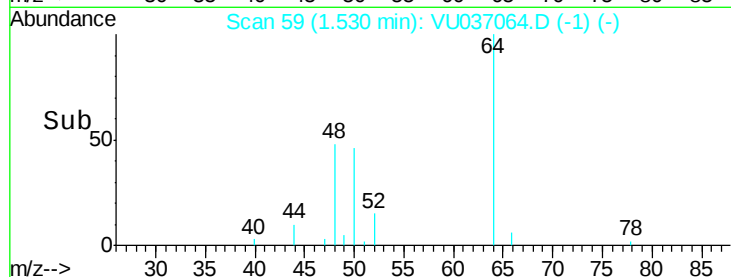
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1.53

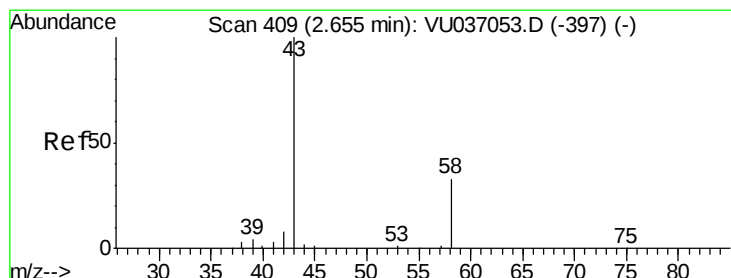
1.53

1.53

1.53



Time-->



#13

Acetone

Concen: 3.379 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037064.D

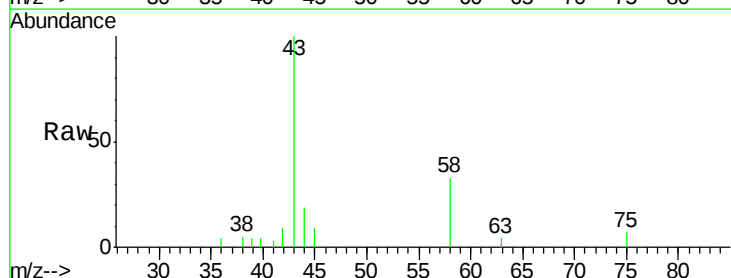
Acq: 05 Mar 2020 02:02

Tgt Ion: 43 Resp: 5855

Ion Ratio Lower Upper

43 100

58 31.1 0.0 64.6



Abundance Ion 43.00 (42.70 to 43.70): VU037064.D (-316) (-)

Ion 58.00 (57.70 to 58.70): VU037064.D (-316) (-)

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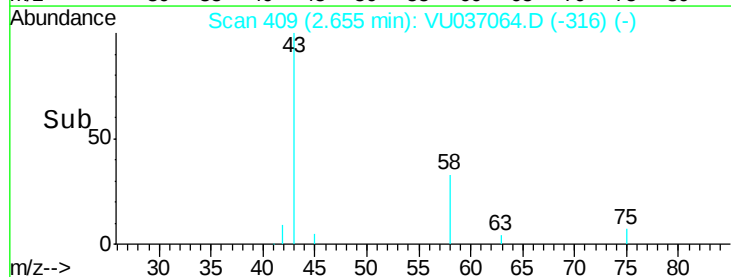
2.66

2.66

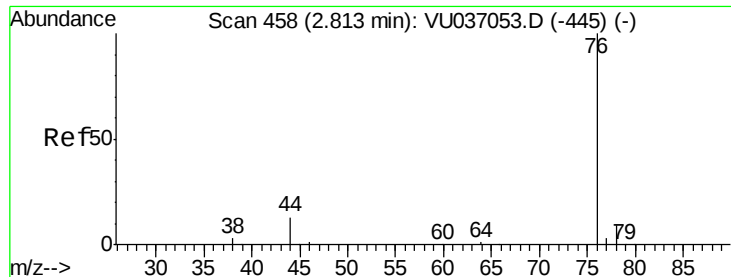
2.66

2.66

2.66



Time-->



#14

Carbon disulfide

Concen: 6.594 ug/L

RT: 2.82 min Scan# 459

Delta R.T. 0.00 min

Lab File: VU037064.D

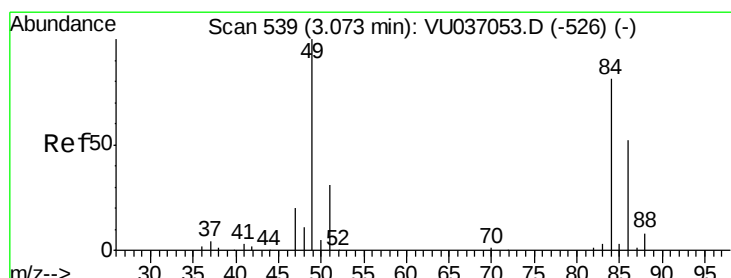
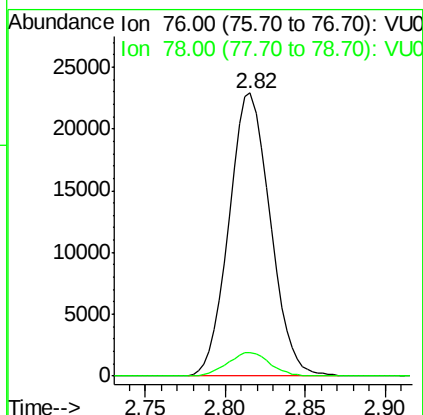
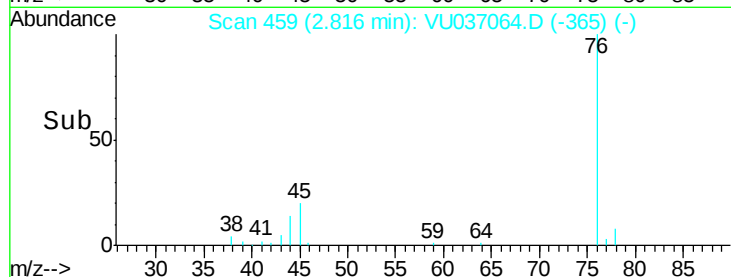
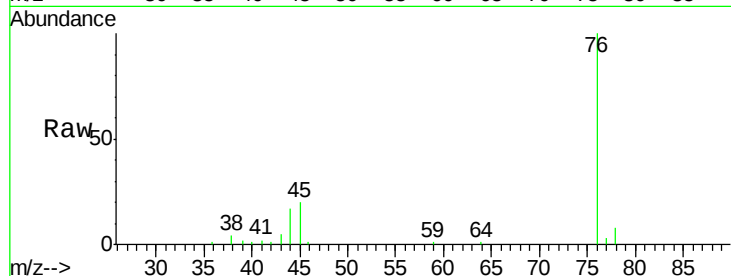
Acq: 05 Mar 2020 02:02

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.2	7.1	10.7

Instrument :
MSVOA_U
ClientSampled :
C0DH1

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#16

Methylene chloride

Concen: 3.970 ug/L

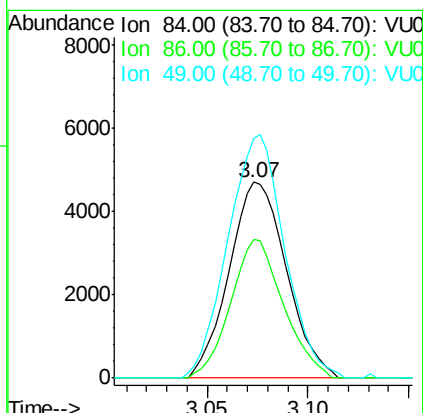
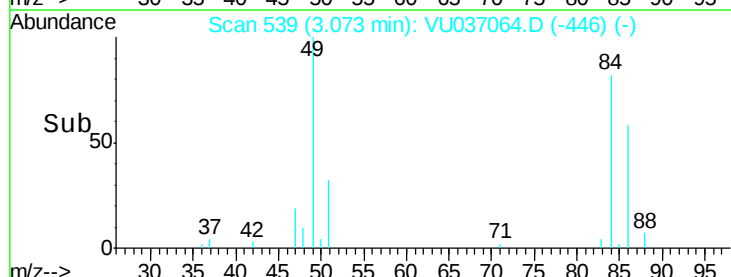
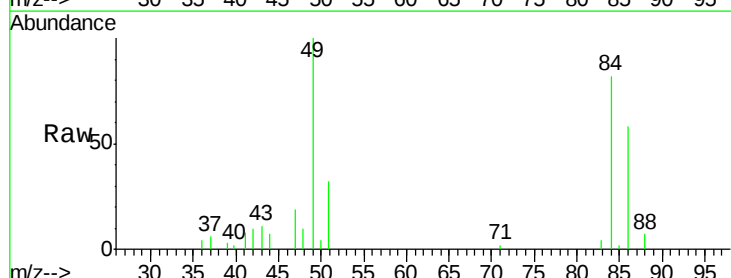
RT: 3.07 min Scan# 539

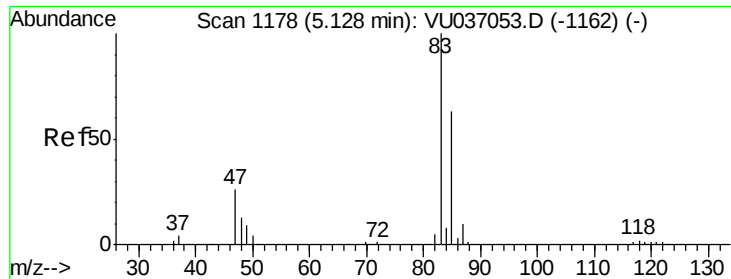
Delta R.T. 0.00 min

Lab File: VU037064.D

Acq: 05 Mar 2020 02:02

Tgt Ion	Ratio	Lower	Upper
84	100		
86	70.7	44.4	82.5
49	122.1	85.9	159.5





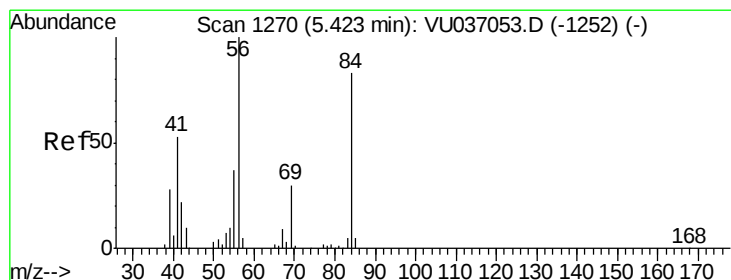
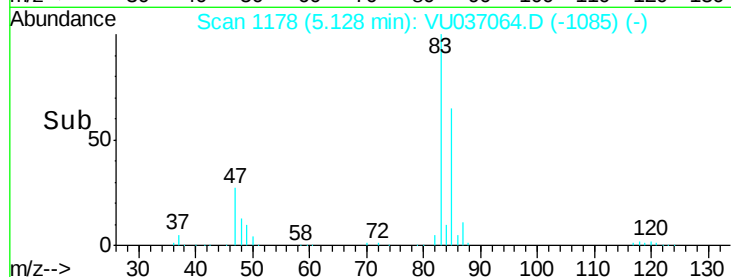
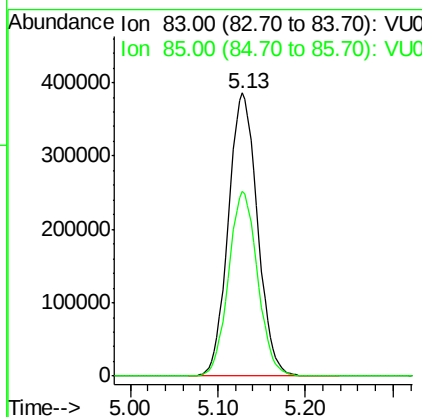
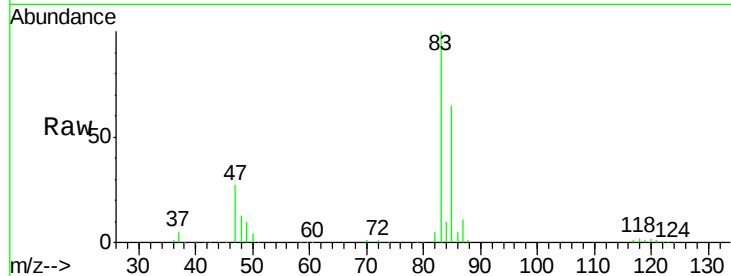
#25
Chloroform
Concen: 229.676 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU037064.D
Acq: 05 Mar 2020 02:02

Instrument :
MSVOA_U
ClientSampled :
C0DH1

Tot Ion	83	Resp	893403
Ion Ratio	100	Lower	Upper
85	65.3	45.1	83.9

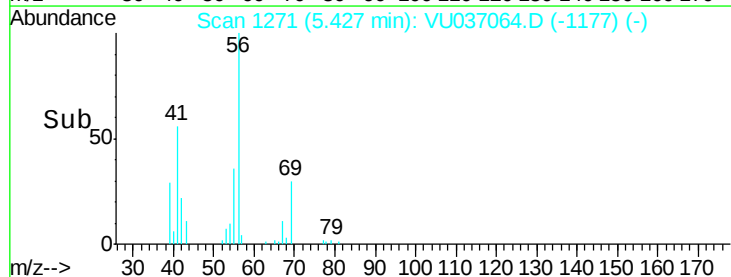
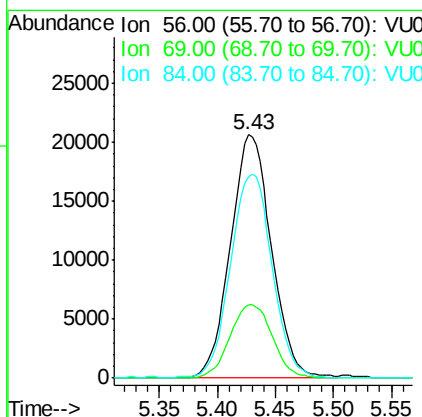
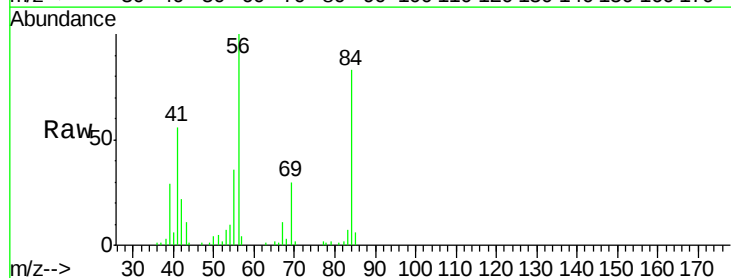
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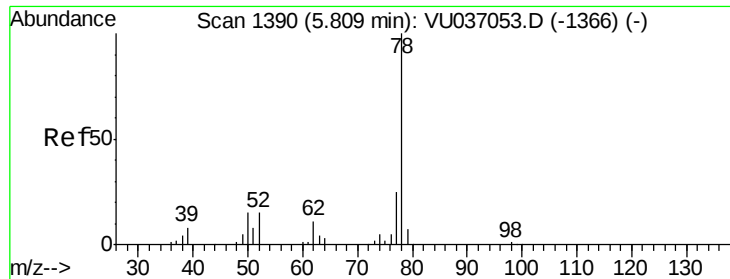
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#29
Cyclohexane
Concen: 21.032 ug/L
RT: 5.43 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VU037064.D
Acq: 05 Mar 2020 02:02

Tgt Ion	56	Resp	50651
Ion Ratio	100	Lower	Upper
69	31.1	24.6	37.0
84	85.2	67.0	100.4





#33

Benzene

Concen: 14814.756 ug/L m

RT: 5.80 min Scan# 1387

Delta R.T. -0.01 min

Lab File: VU037064.D

Acq: 05 Mar 2020 02:02

Instrument :

MSVOA_U

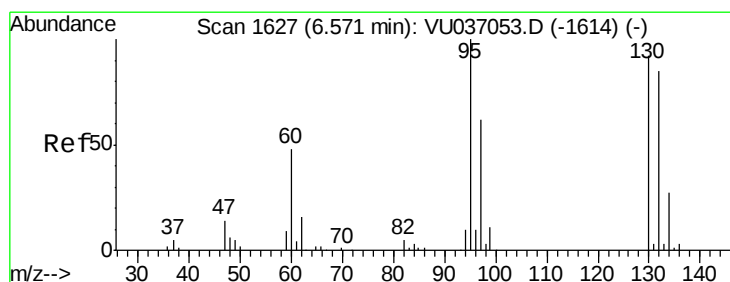
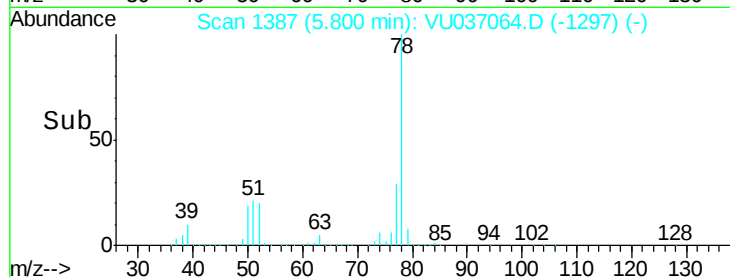
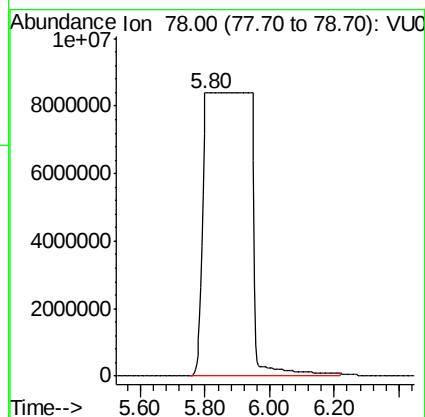
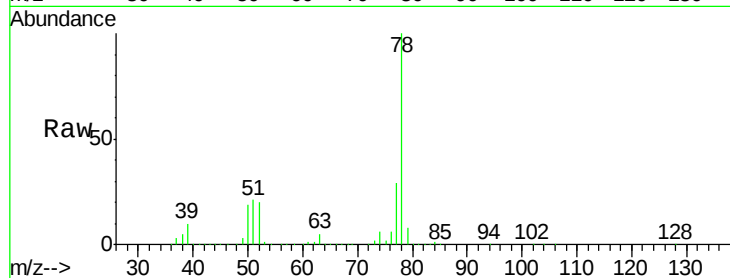
ClientSampleId :

C0DH1

Tgt Ion: 78 Resp:84935513

Manual Integrations
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#34

Trichloroethene

Concen: 9.968 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VU037064.D

Acq: 05 Mar 2020 02:02

Tgt Ion: 95 Resp: 14046

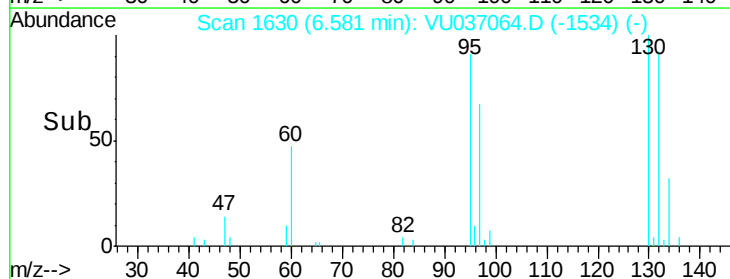
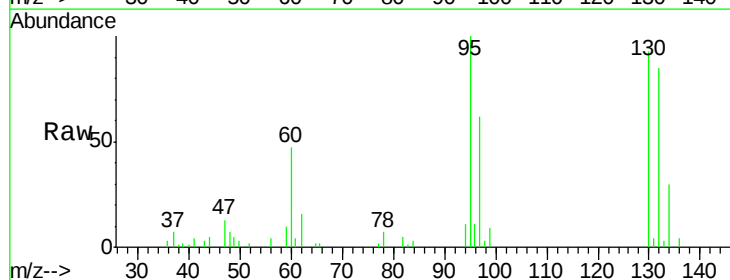
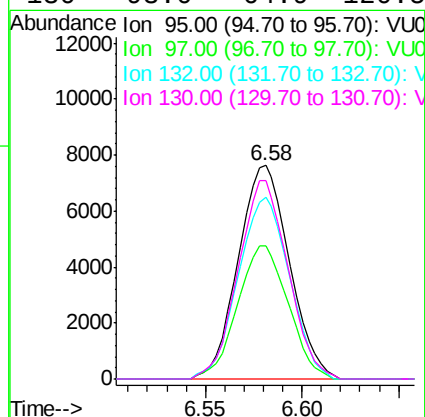
Ion	Ratio	Lower	Upper
95	100		
97	62.4	44.1	81.9
132	85.1	60.6	112.6
130	93.0	64.9	120.5

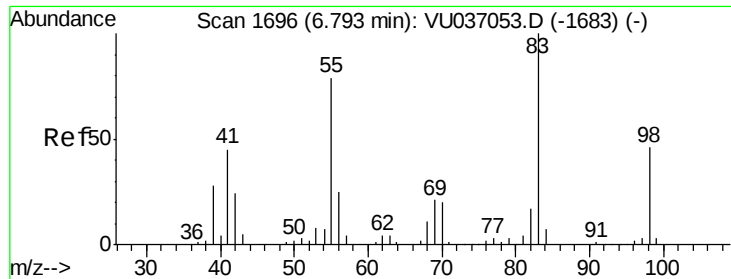
Ion 95.00 (94.70 to 95.70): VU037053.D (-1614) (-)

Ion 97.00 (96.70 to 97.70): VU037053.D (-1614) (-)

Ion 132.00 (131.70 to 132.70): VU037053.D (-1614) (-)

Ion 130.00 (129.70 to 130.70): VU037053.D (-1614) (-)





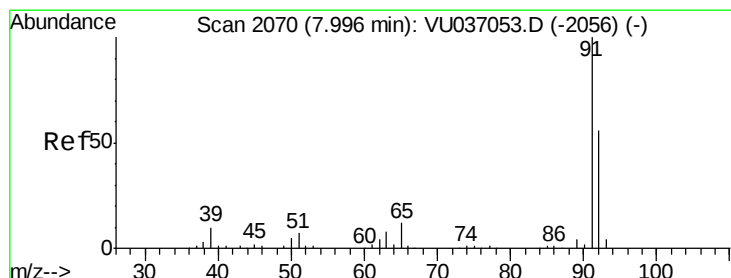
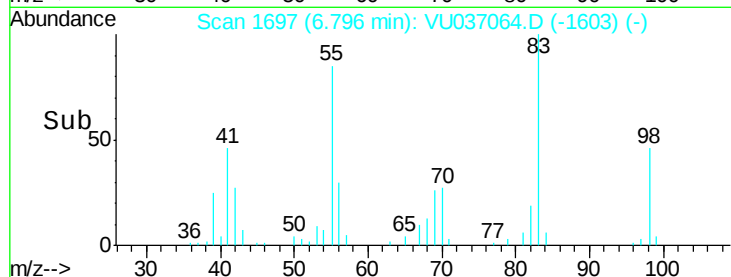
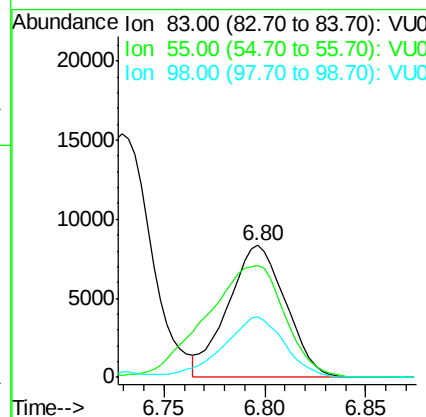
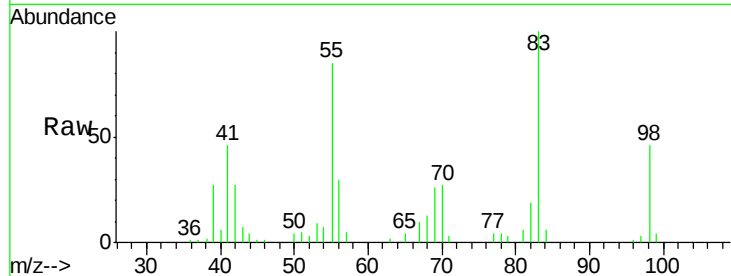
#35
Methvlcvclohexane
Concen: 6.838 ug/L
RT: 6.80 min Scan# 1697
Delta R.T. 0.00 min
Lab File: VU037064.D
Acq: 05 Mar 2020 02:02

Instrument :
MSVOA_U
ClientSampled :
C0DH1

Tot Ion	Ratio	Lower	Upper
83	100		
55	115.5	62.6	93.8#
98	48.6	35.1	52.7

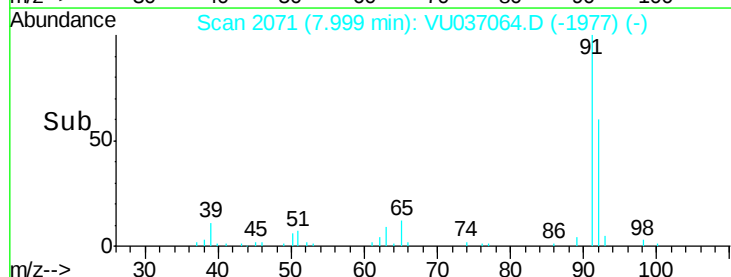
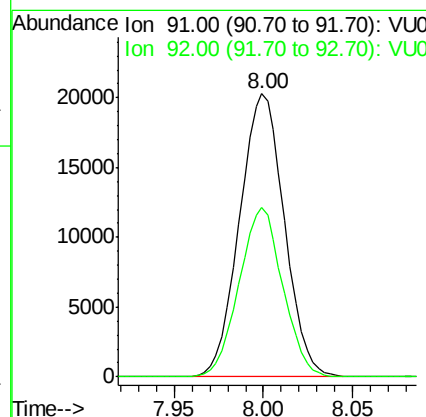
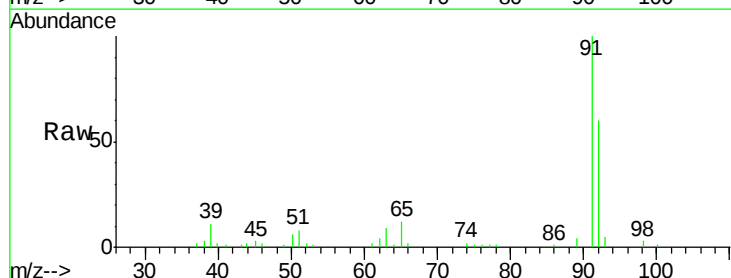
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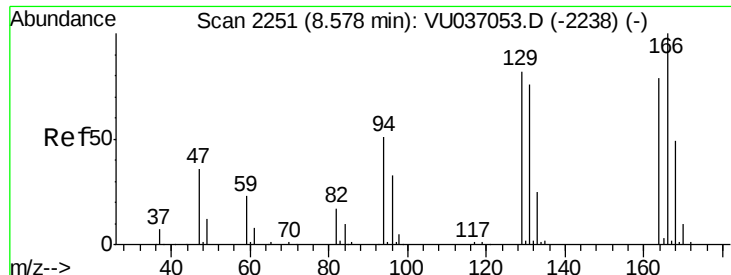
sam
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#42
Toluene
Concen: 5.821 ug/L
RT: 8.00 min Scan# 2071
Delta R.T. 0.00 min
Lab File: VU037064.D
Acq: 05 Mar 2020 02:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.0	39.4	73.2





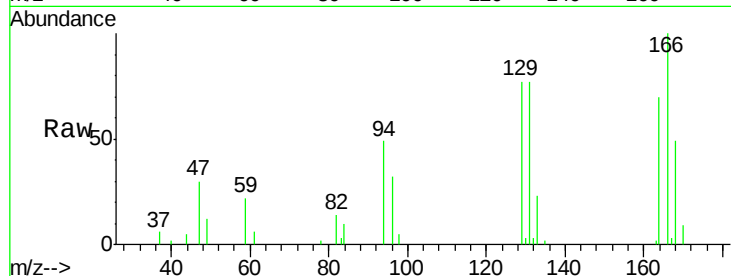
#46
Tetrachloroethene
Concen: 10.189 ug/L
RT: 8.58 min Scan# 2252
Delta R.T. 0.00 min
Lab File: VU037064.D
Acq: 05 Mar 2020 02:02

Instrument :
MSVOA_U
ClientSampled :
C0DH1

Tot Ion	Ratio	Lower	Upper
164	100		
129	109.5	72.0	133.8
131	109.0	67.9	126.1
166	142.3	87.1	161.7

Manual Integrations
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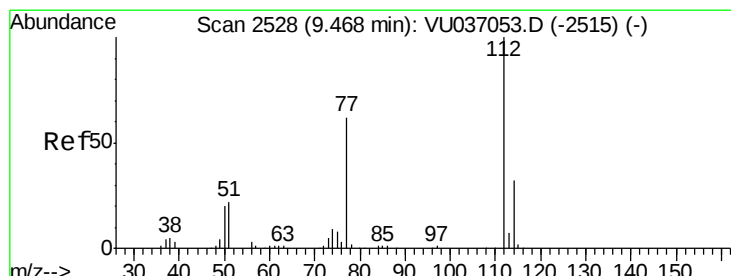
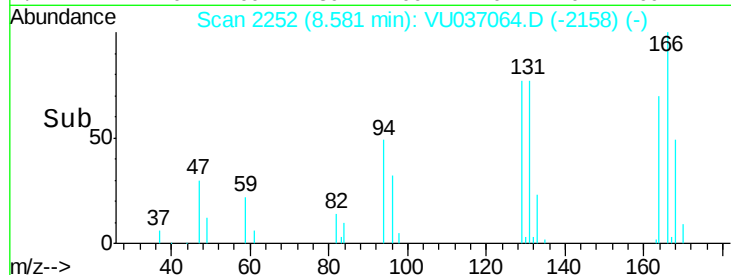
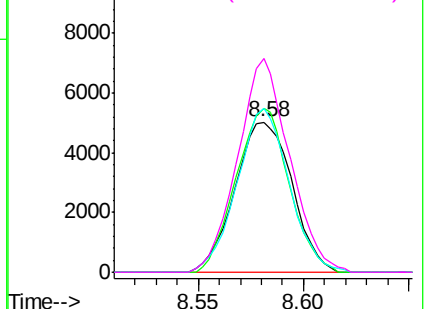


Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V



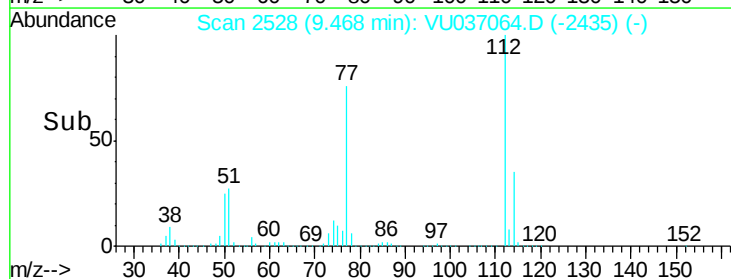
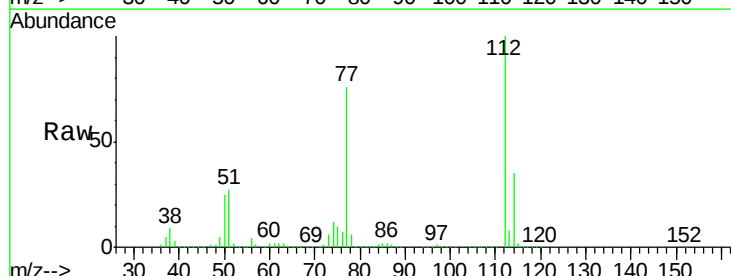
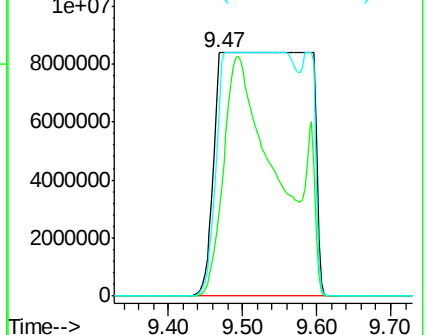
#51
Chlorobenzene
Concen: 19815.929 ug/L m
RT: 9.47 min Scan# 2528
Delta R.T. 0.00 min
Lab File: VU037064.D
Acq: 05 Mar 2020 02:02

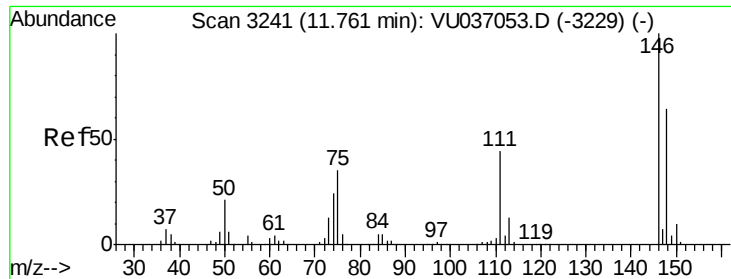
Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.7	22.3	41.5
77	75.6	50.1	75.1#

Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU0





#62

1,3-Dichlorobenzene

Concen: 916.543 ug/L

RT: 11.78 min Scan# 3246

Delta R.T. 0.02 min

Lab File: VU037064.D

Acq: 05 Mar 2020 02:02

Instrument :

MSVOA_U

ClientSampled :

C0DH1

Tot Ion:146 Resp: 4234187

Ion Ratio Lower Upper

146 100

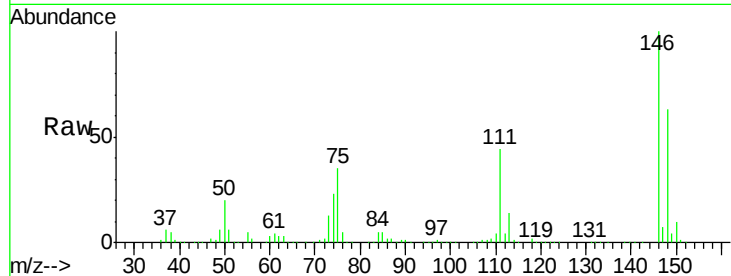
111 43.6 30.7 56.9

148 63.3 44.2 82.2

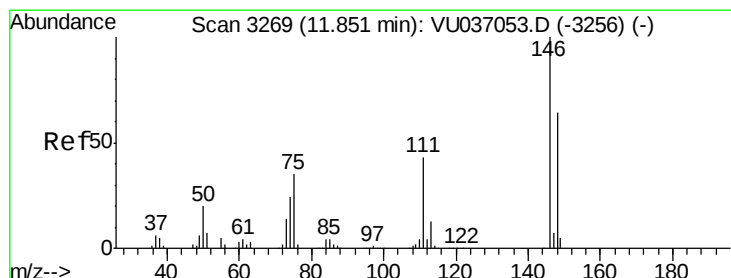
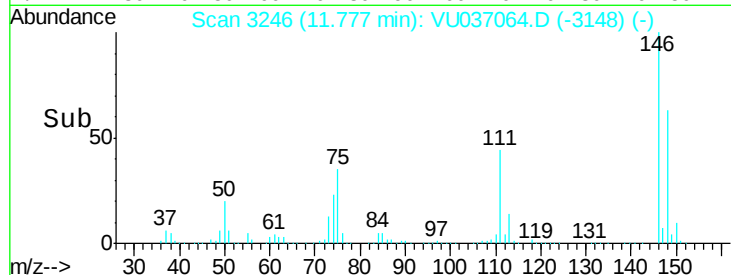
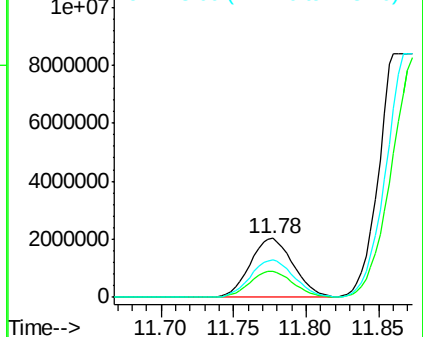
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 9049.724 ug/L m

RT: 11.86 min Scan# 3272

Delta R.T. 0.01 min

Lab File: VU037064.D

Acq: 05 Mar 2020 02:02

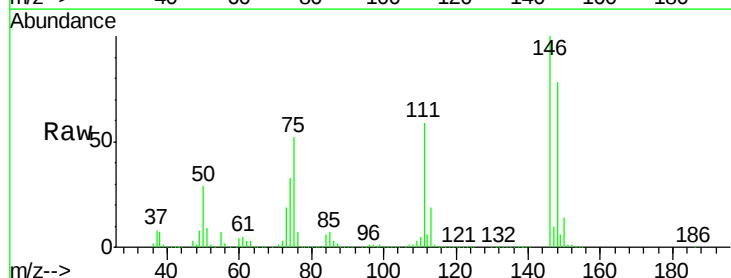
Tgt Ion:146 Resp:41305021

Ion Ratio Lower Upper

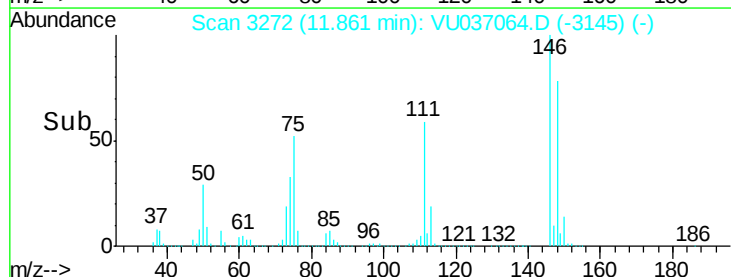
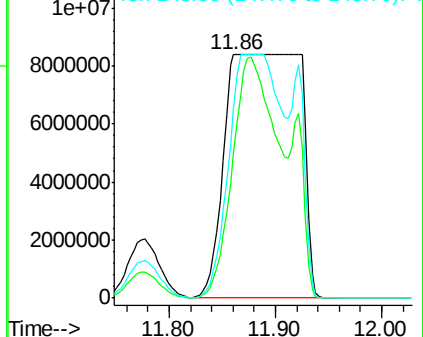
146 100

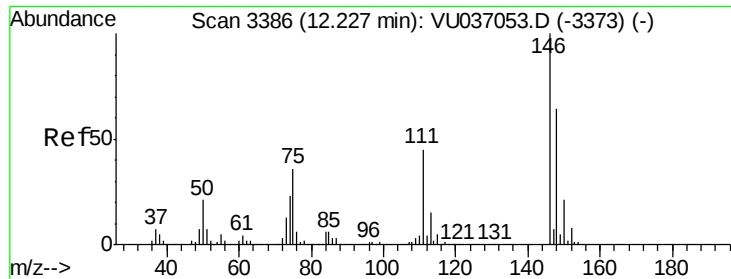
111 59.3 29.8 55.4#

148 77.5 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 7338.896 ug/L m

RT: 12.24 min Scan# 3390

Delta R.T. 0.01 min

Lab File: VU037064.D

Acq: 05 Mar 2020 02:02

Instrument :

MSVOA_U

ClientSampled :

C0DH1

Tot Ion:146 Resp:33851845

Ion Ratio Lower Upper

146 100

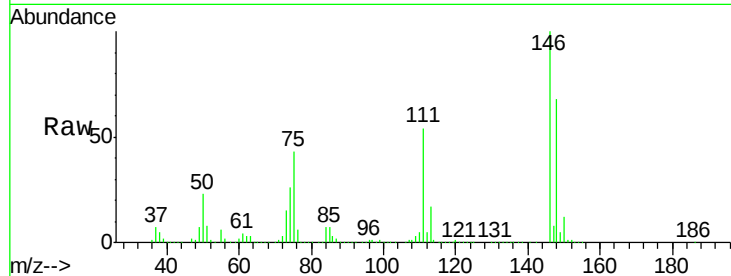
111 53.9 35.4 53.0#

148 67.9 50.5 75.7

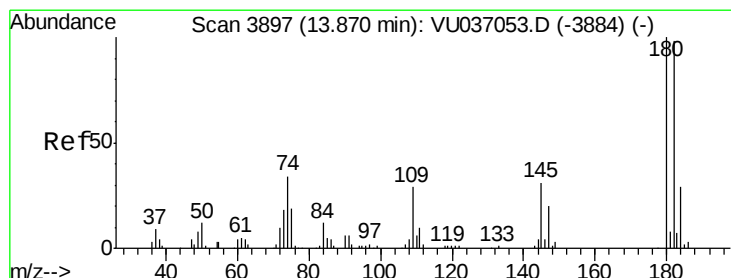
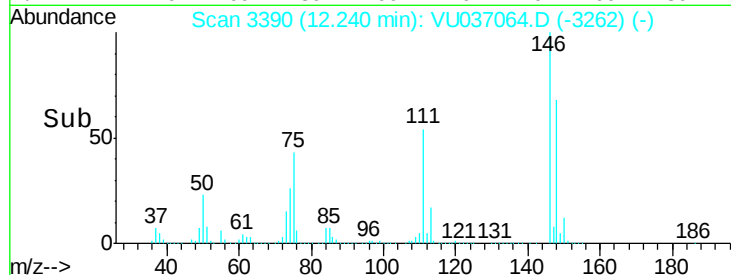
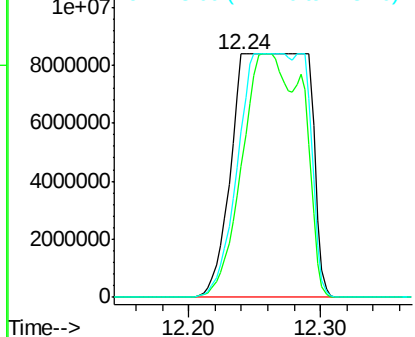
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 1807.088 ug/L

RT: 13.88 min Scan# 3899

Delta R.T. 0.01 min

Lab File: VU037064.D

Acq: 05 Mar 2020 02:02

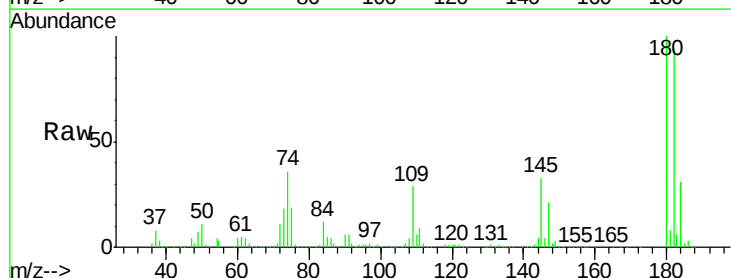
Tgt Ion:180 Resp: 3970083

Ion Ratio Lower Upper

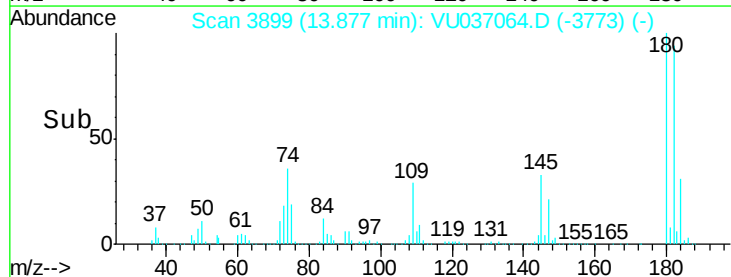
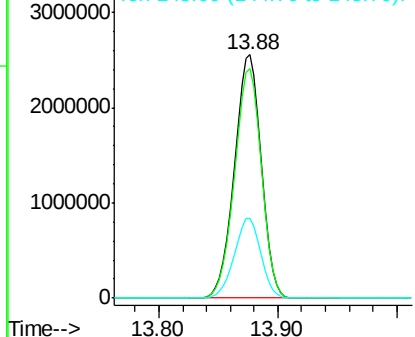
180 100

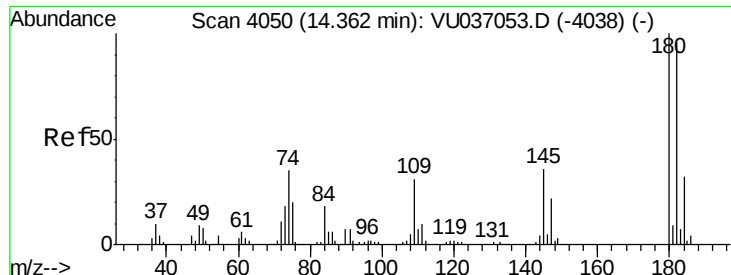
182 94.9 75.3 112.9

145 32.7 26.2 39.4



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 99.235 ug/L
 RT: 14.36 min Scan# 4050
 Delta R.T. 0.00 min
 Lab File: VU037064.D
 Acq: 05 Mar 2020 02:02

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DH1

Tot Ion:	180	Resp:	217862
Ion Ratio	Lower	Upper	
180	100		
182	95.7	77.0	115.6
145	34.3	28.1	42.1

Manual Integrations
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