

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030420\
 Data File : VU037061.D
 Acq On : 05 Mar 2020 00:51
 Operator : JC/MD
 Sample : L1780-09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DG5

Manual Integrations
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sam
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Quant Time: Mar 05 03:59:17 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	288366	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.47	117	297148	50.00	ug/L	0.04
60) 1,4-Dichlorobenzene-d4	11.83	152	137230	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	91928	37.96	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	75.92%
7) Chloroethane-d5	1.92	69	91079	45.46	ug/L	0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.92%
11) 1,1-Dichloroethene-d2	2.58	63	130532	32.19	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	64.38%
21) 2-Butanone-d5	4.67	46	154789	95.29	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.29%
24) Chloroform-d	5.10	84	170976	46.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.48%
26) 1,2-Dichloroethane-d4	5.75	65	58269	23.28	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	46.56%#
32) Benzene-d6	5.80	84	408934	47.59	ug/L	0.04
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.18%
36) 1,2-Dichloropropane-d6	6.73	67	125820	45.19	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	90.38%
41) Toluene-d8	7.92	98	352942	44.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	88.54%
43) trans-1,3-Dichloropropene-	8.20	79	53418	41.29	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	82.58%
47) 2-Hexanone-d5	8.66	63	111140	81.65	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	81.65%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	170536	43.45	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	86.90%
64) 1,2-Dichlorobenzene-d4	12.21	152	119741	44.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.28%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	3772	1.340 ug/L	90
12) 1,1-Dichloroethene	2.60	96	12203	6.552 ug/L #	1
13) Acetone	2.66	43	4256	2.547 ug/L	95
17) trans-1,2-Dichloroethene	3.38	96	2536	1.267 ug/L	93
20) cis-1,2-Dichloroethene	4.71	96	3858	1.724 ug/L	99
29) Cyclohexane	5.43	56	10013	2.539 ug/L	99
33) Benzene	5.80	78	57795532m	6156.737 ug/L	
34) Trichloroethene	6.58	95	4809	2.084 ug/L	93
42) Toluene	8.00	91	9826	0.982 ug/L	96
51) Chlorobenzene	9.47	112	42071457m	7099.597 ug/L	
62) 1,3-Dichlorobenzene	11.76	146	871313	195.725 ug/L	99
63) 1,4-Dichlorobenzene	11.86	146	16079108m	3655.803 ug/L	
65) 1,2-Dichlorobenzene	12.24	146	8426326	1895.724 ug/L	97
68) 1,2,4-trichlorobenzene	13.87	180	96276	45.476 ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	4958	2.344 ug/L	98

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

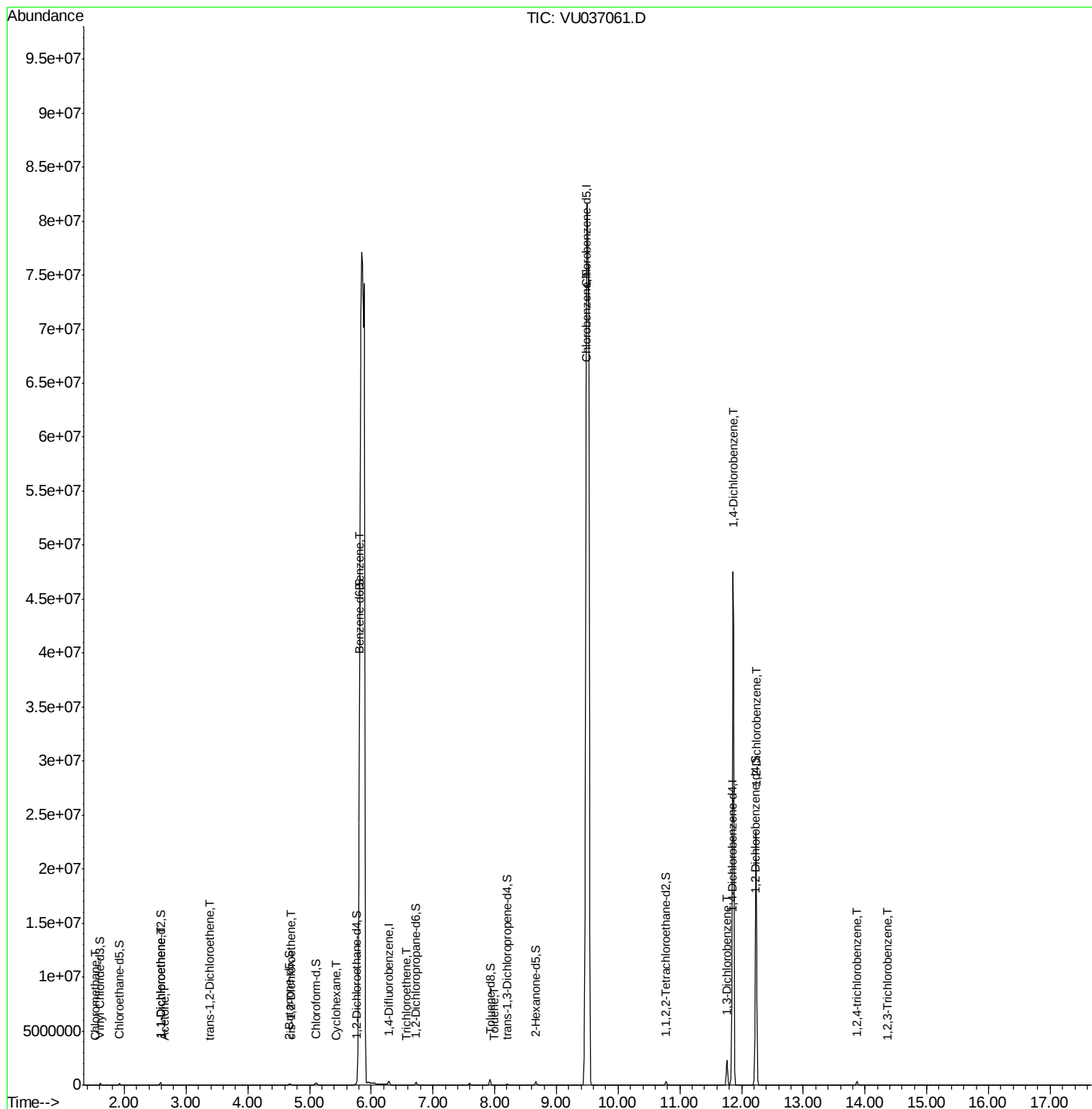
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030420\
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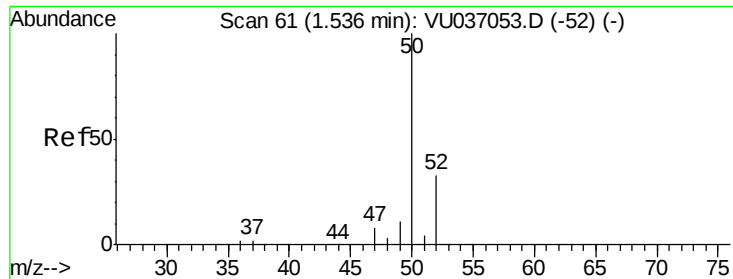
Instrument :
MSVOA_U
ClientSampleId :
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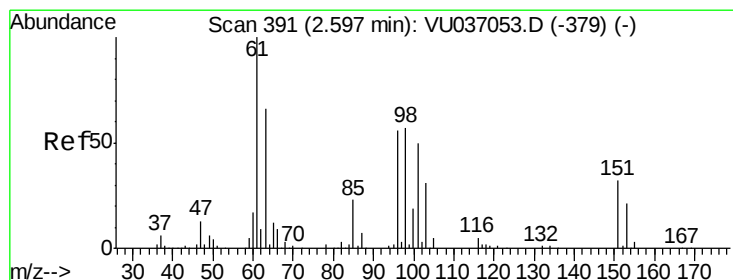
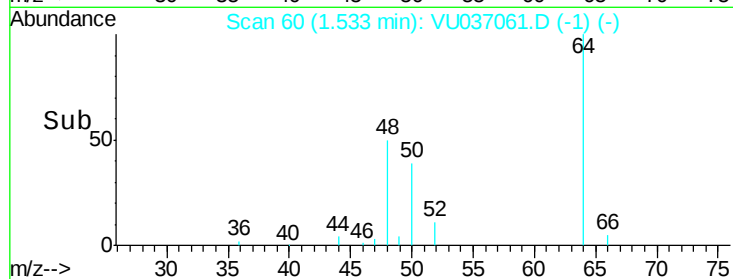
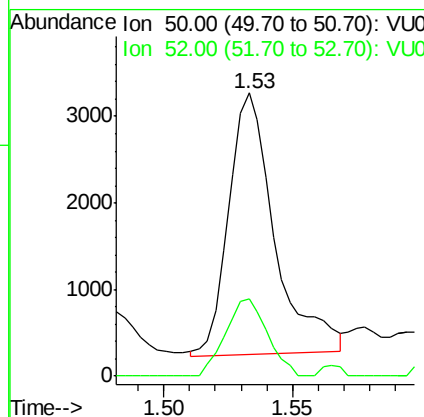
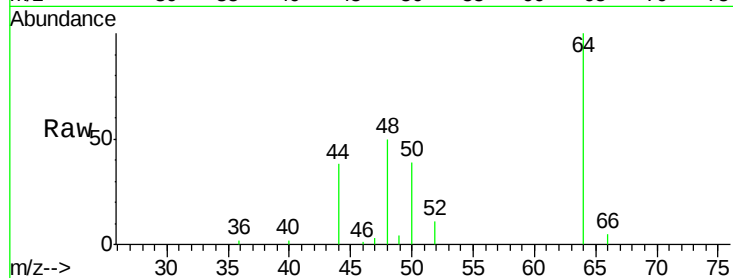
#3
 Chloromethane
 Concen: 1.340 ug/L
 RT: 1.53 min Scan# 60
 Delta R.T. -0.00 min
 Lab File: VU037061.D
 Acq: 05 Mar 2020 00:51

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DG5

Tot Ion: 50 Resp: 3772
 Ion Ratio Lower Upper
 50 100
 52 27.3 23.0 42.6

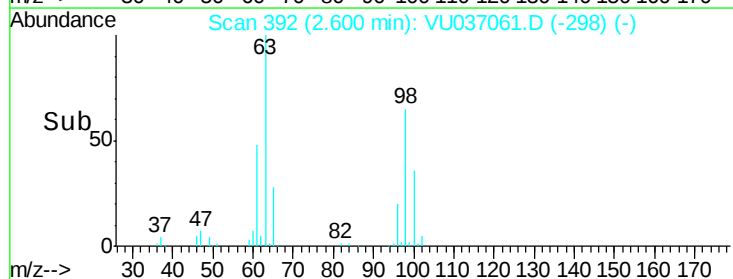
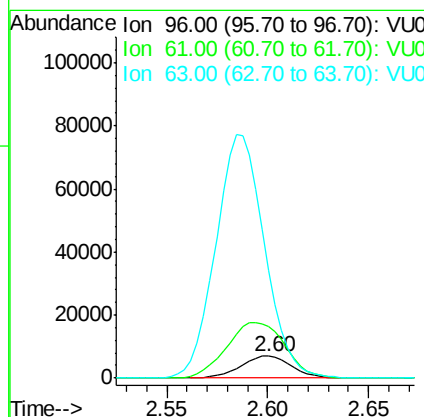
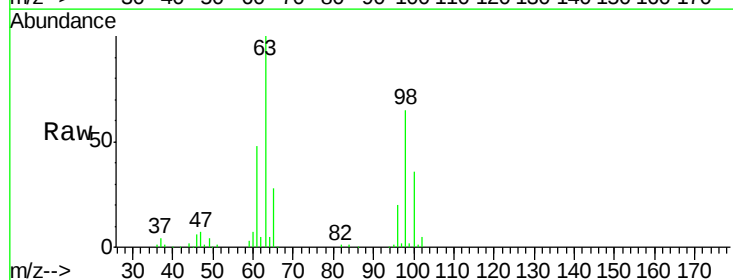
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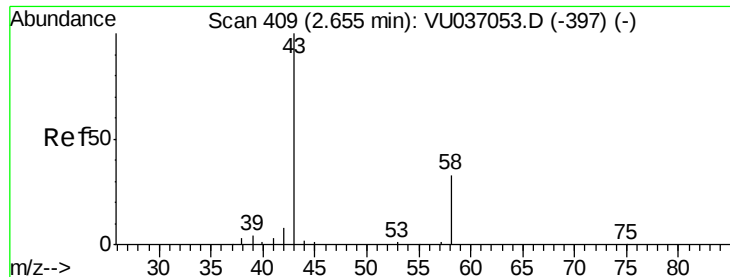
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#12
 1,1-Dichloroethene
 Concen: 6.552 ug/L
 RT: 2.60 min Scan# 392
 Delta R.T. 0.00 min
 Lab File: VU037061.D
 Acq: 05 Mar 2020 00:51

Tgt Ion: 96 Resp: 12203
 Ion Ratio Lower Upper
 96 100
 61 234.3 127.5 236.7
 63 490.7 101.4 188.2#





#13

Acetone

Concen: 2.547 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

Instrument :

MSVOA_U

ClientSampled :

C0DG5

Tot Ion: 43 Resp: 4256

Ion Ratio Lower Upper

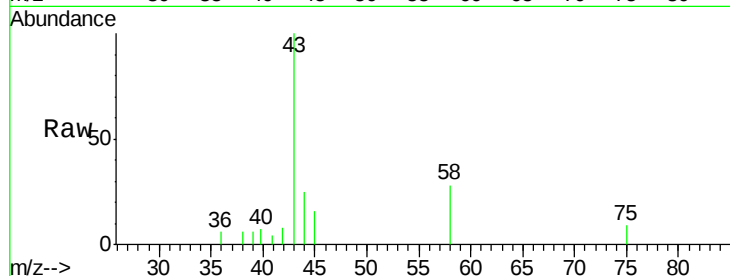
43 100

58 29.7 0.0 64.6

Manual Integrations
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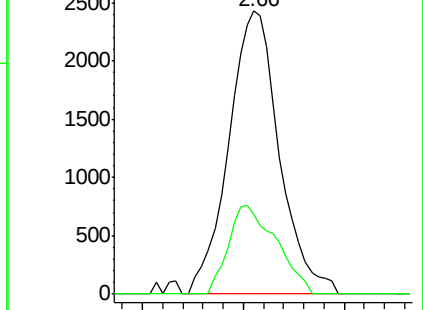
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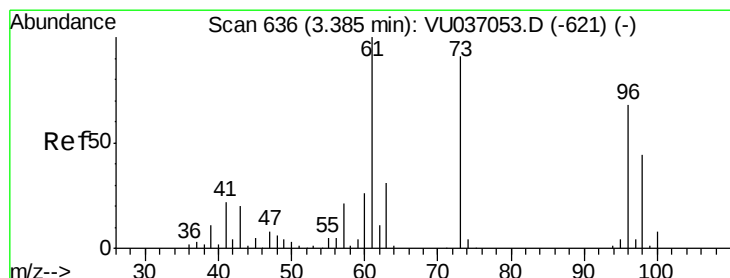
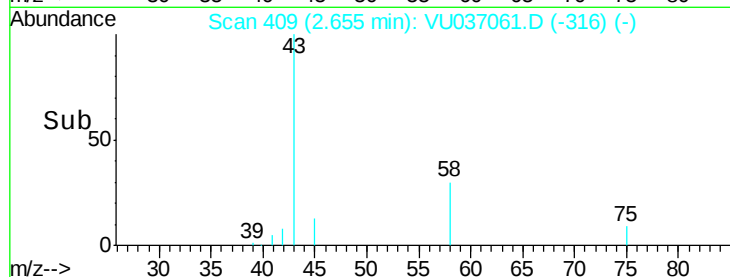


Abundance Ion 43.00 (42.70 to 43.70): VU037061.D (-543) (-)

Ion 58.00 (57.70 to 58.70): VU037061.D (-543) (-)



Time-->



#17

trans-1,2-Dichloroethene

Concen: 1.267 ug/L

RT: 3.38 min Scan# 635

Delta R.T. -0.00 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

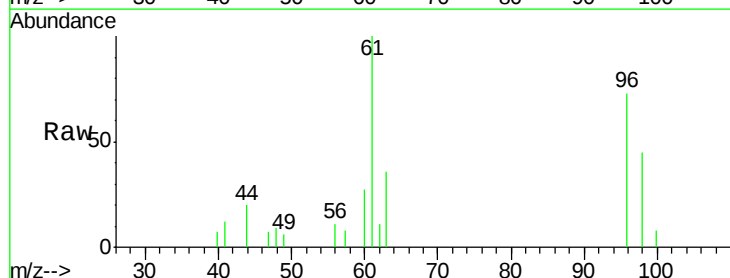
Tgt Ion: 96 Resp: 2536

Ion Ratio Lower Upper

96 100

61 136.7 103.8 192.8

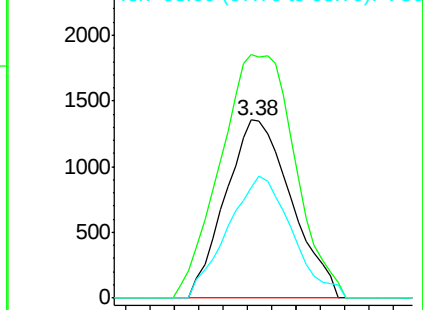
98 61.7 44.2 82.2



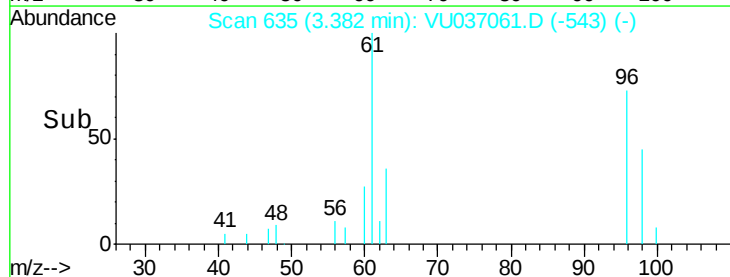
Abundance Ion 96.00 (95.70 to 96.70): VU037061.D (-543) (-)

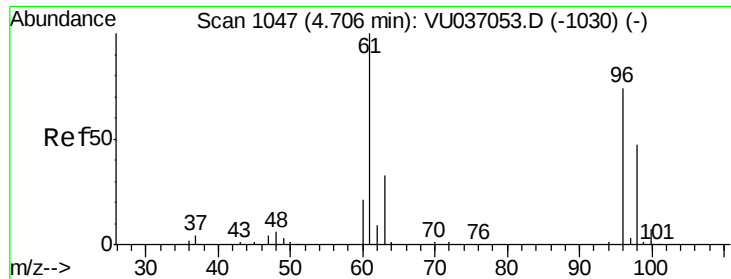
Ion 61.00 (60.70 to 61.70): VU037061.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU037061.D (-543) (-)



Time-->





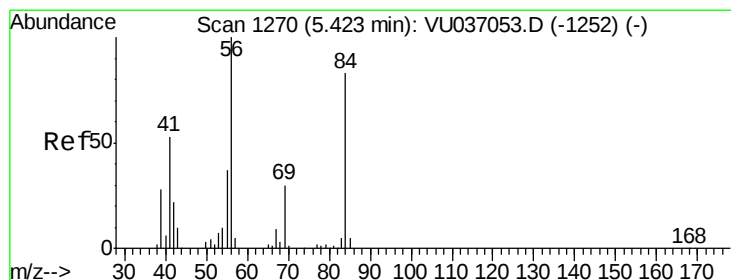
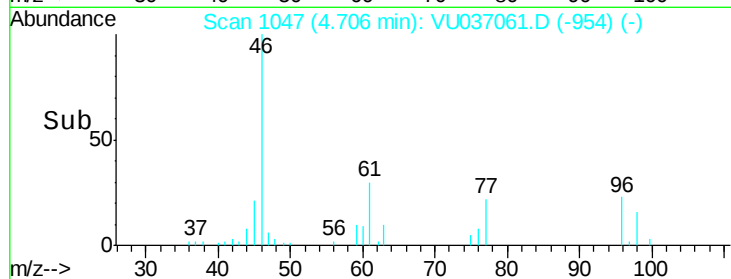
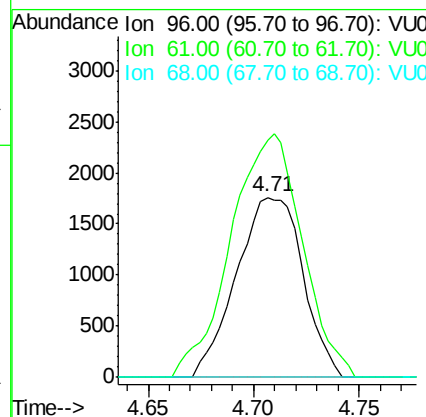
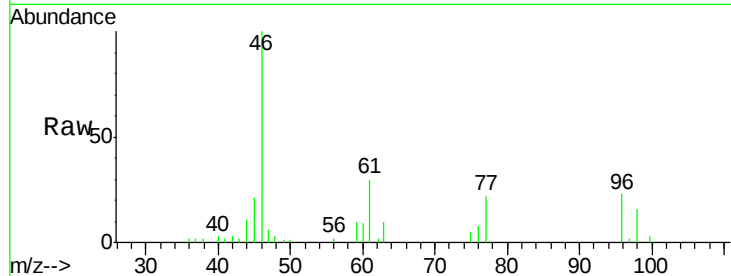
#20
 cis-1,2-Dichloroethene
 Concen: 1.724 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037061.D
 Acq: 05 Mar 2020 00:51

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DG5

Tot Ion	Ratio	Lower	Upper
96	100		
61	131.7	93.1	172.9
68	0.0	0.0	0.0

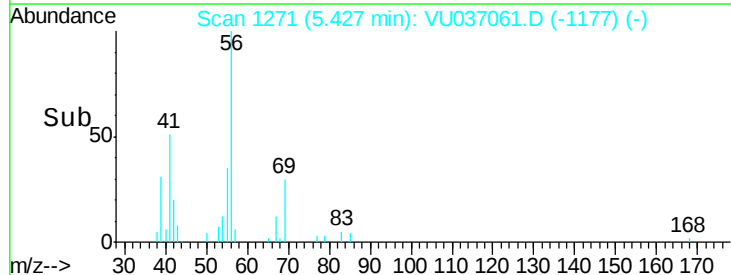
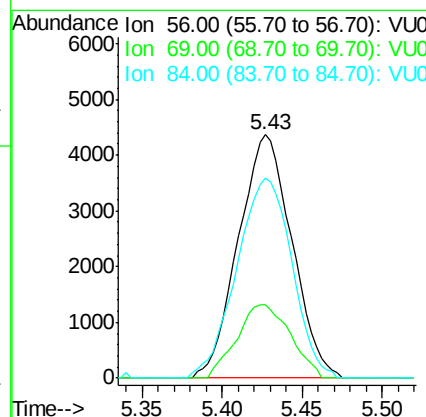
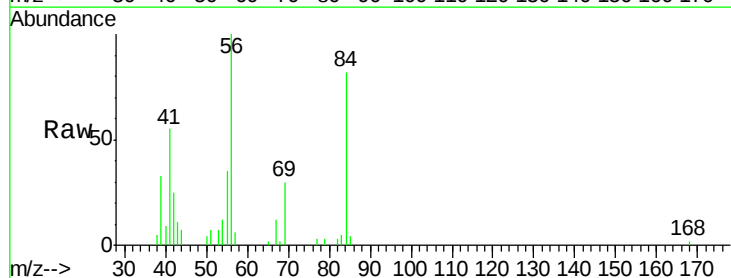
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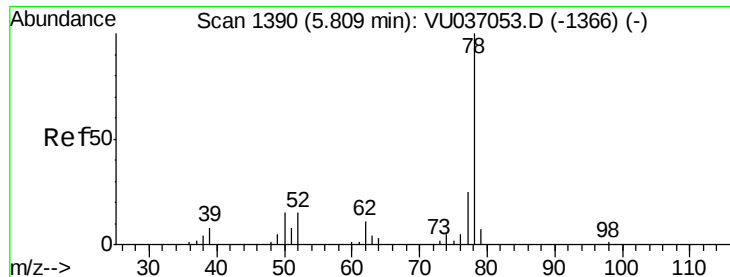
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#29
 Cyclohexane
 Concen: 2.539 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VU037061.D
 Acq: 05 Mar 2020 00:51

Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.1	24.6	37.0
84	84.8	67.0	100.4





#33

Benzene

Concen: 6156.737 ug/L m

RT: 5.80 min Scan# 1388

Delta R.T. -0.01 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

Instrument :

MSVOA_U

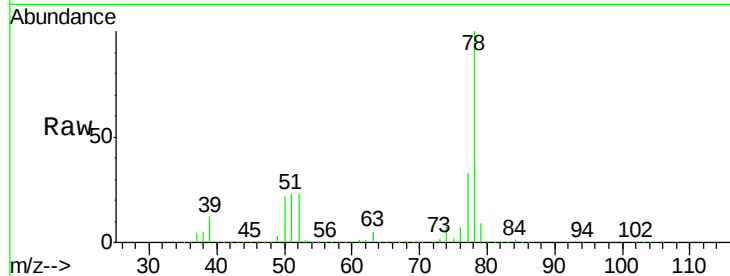
ClientSampleId :

C0DG5

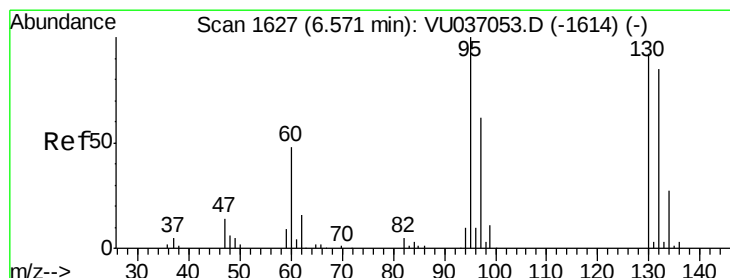
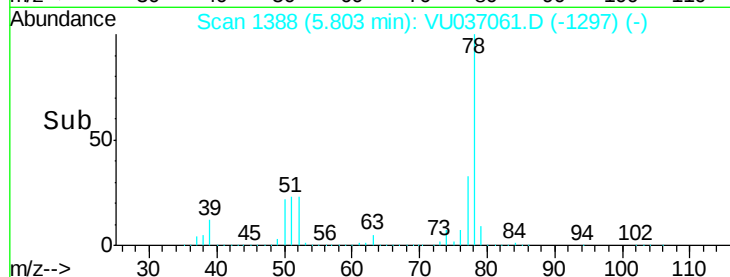
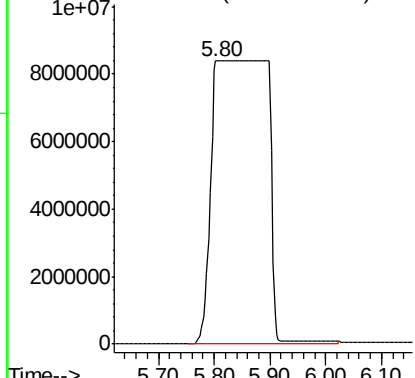
Tgt Ion: 78 Resp:57795532

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Abundance Ion 78.00 (77.70 to 78.70): VU0



#34

Trichloroethene

Concen: 2.084 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.01 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

Tgt Ion: 95 Resp: 4809

Ion	Ratio	Lower	Upper
95	100		
97	73.0	44.1	81.9
132	88.4	60.6	112.6
130	99.7	64.9	120.5

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

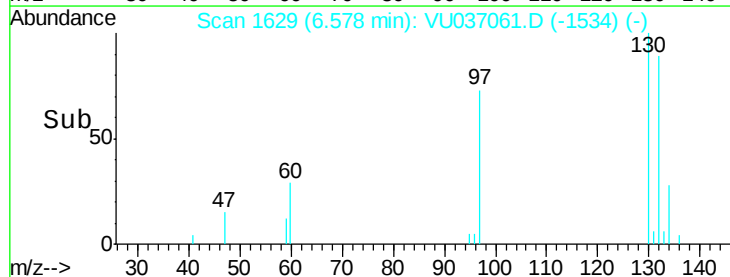
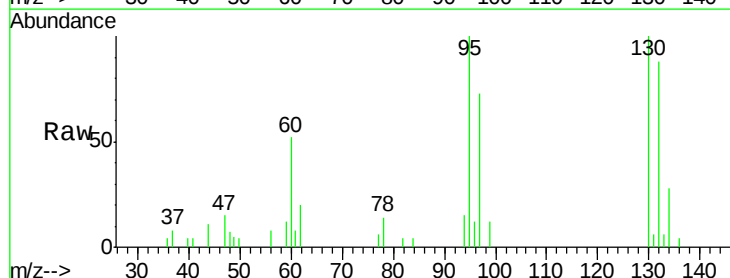
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->

Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->

Abundance

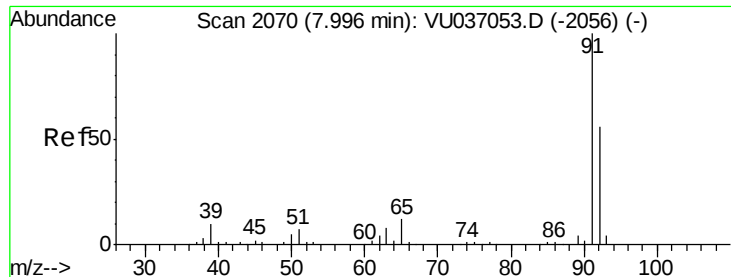
Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



#42

Toluene

Concen: 0.982 ug/L

RT: 8.00 min Scan# 2070

Delta R.T. 0.00 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

Instrument :

MSVOA_U

ClientSampleId :

C0DG5

Tot Ion: 91 Resp: 9826

Ion Ratio Lower Upper

91 100

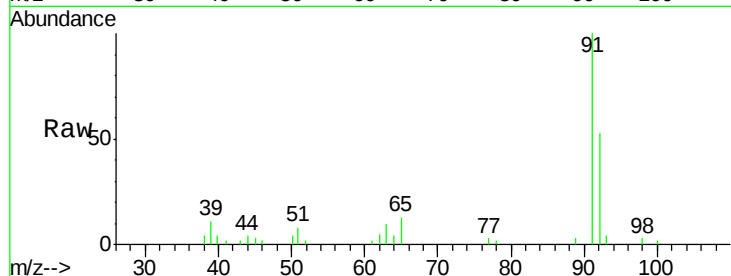
92 53.2 39.4 73.2

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Abundance Ion 91.00 (90.70 to 91.70): VU037053.D (-2056) (-)

Ion 92.00 (91.70 to 92.70): VU037053.D (-2056) (-)

8.00

6000

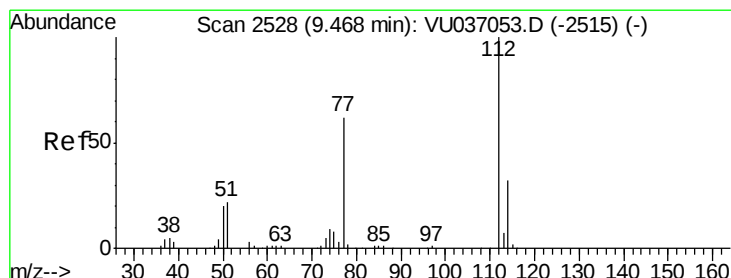
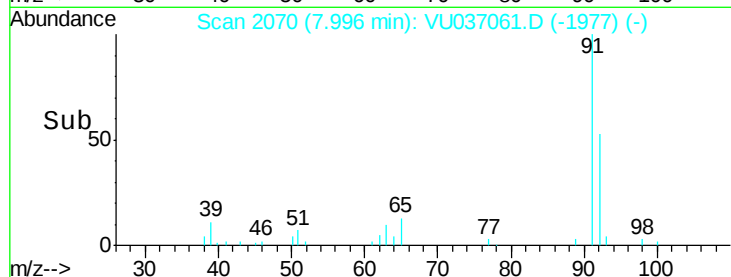
4000

2000

0

7.95 8.00 8.05

Time-->



#51

Chlorobenzene

Concen: 7099.597 ug/L m

RT: 9.47 min Scan# 2529

Delta R.T. 0.00 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

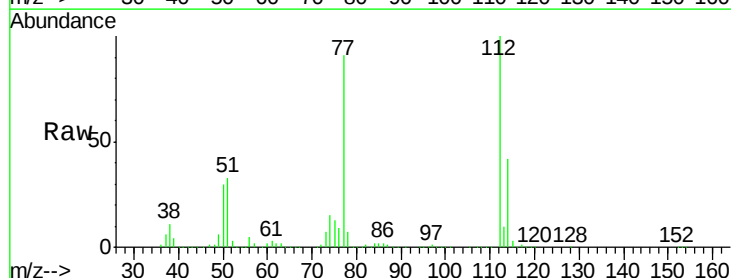
Tgt Ion: 112 Resp: 42071457

Ion Ratio Lower Upper

112 100

114 42.0 22.3 41.5#

77 91.5 50.1 75.1#



Abundance Ion 112.00 (111.70 to 112.70): VU037053.D (-2515) (-)

Ion 114.00 (113.70 to 114.70): VU037053.D (-2515) (-)

Ion 77.00 (76.70 to 77.70): VU037053.D (-2515) (-)

9.47

1e+07

8000000

6000000

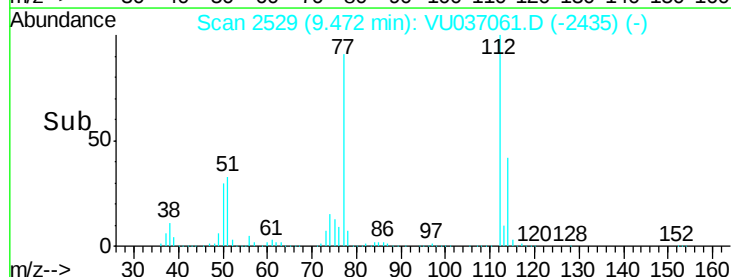
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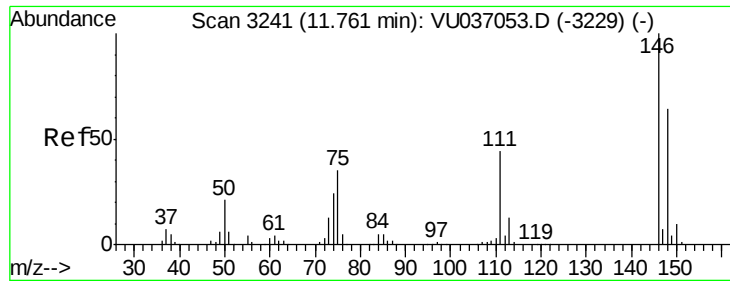
2000000

0

9.40 9.50 9.60

Time-->





#62

1,3-Dichlorobenzene

Concen: 195.725 ug/L

RT: 11.76 min Scan# 3242

Delta R.T. 0.00 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

Instrument :

MSVOA_U

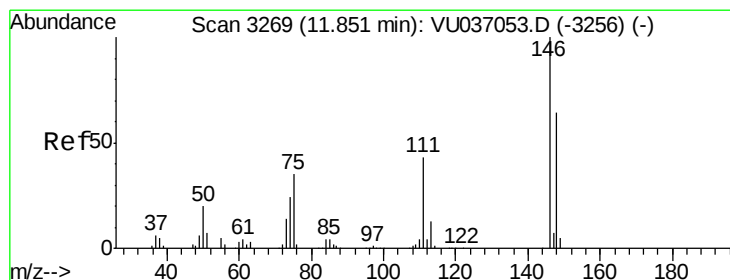
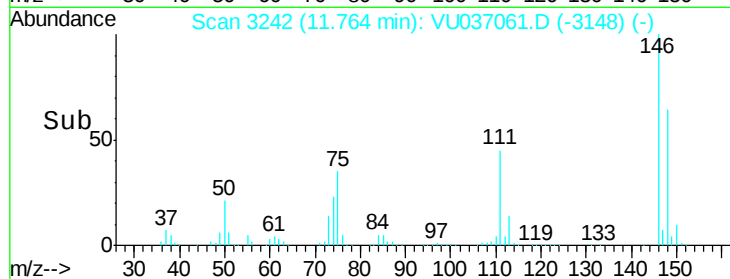
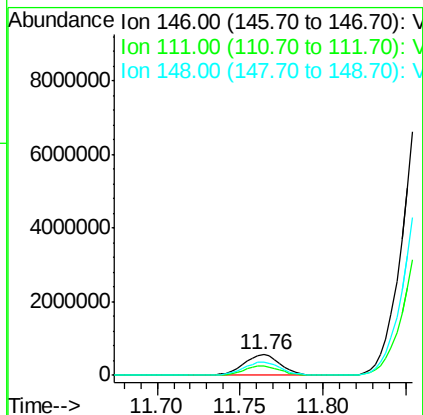
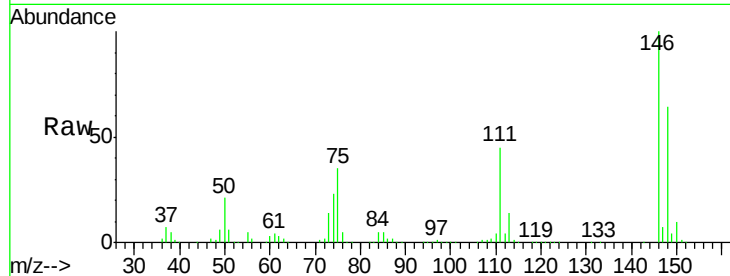
ClientSampled :

C0DG5

Tot Ion:	146	Resp:	871313
Ion Ratio	Lower	Upper	
146	100		
111	44.5	30.7	56.9
148	64.3	44.2	82.2

Manual Integrations
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#63

1,4-Dichlorobenzene

Concen: 3655.803 ug/L m

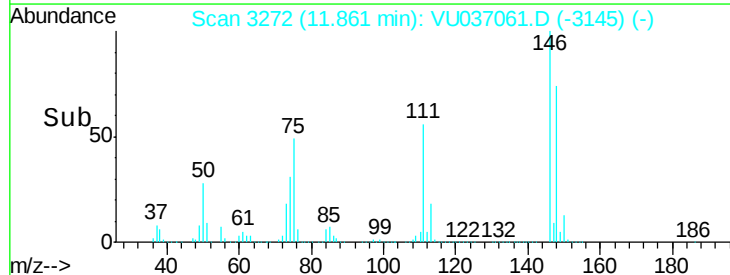
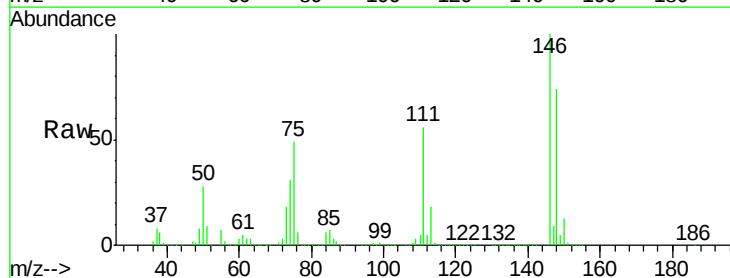
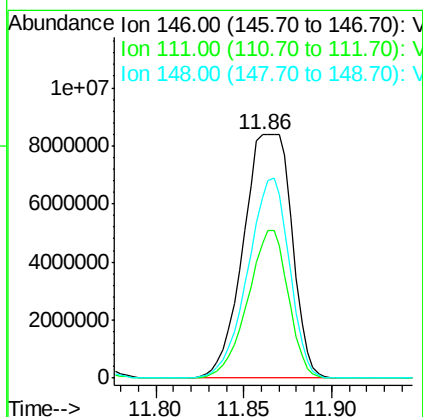
RT: 11.86 min Scan# 3272

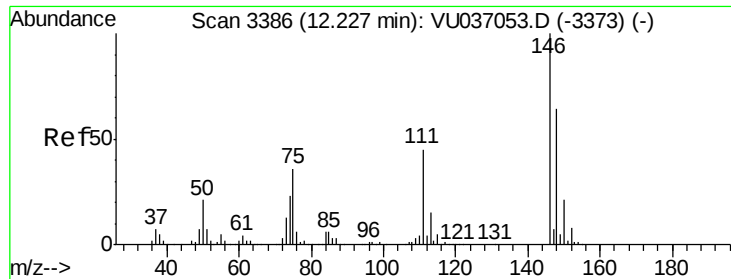
Delta R.T. 0.01 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

Tgt Ion:	146	Resp:	16079108
Ion Ratio	Lower	Upper	
146	100		
111	55.6	29.8	55.4#
148	74.3	45.1	83.9





#65

1,2-Dichlorobenzene

Concen: 1895.724 ug/L

RT: 12.24 min Scan# 3389

Delta R.T. 0.01 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

Instrument :

MSVOA_U

ClientSampled :

C0DG5

Tot Ion:146 Resp: 8426326

Ion Ratio Lower Upper

146 100

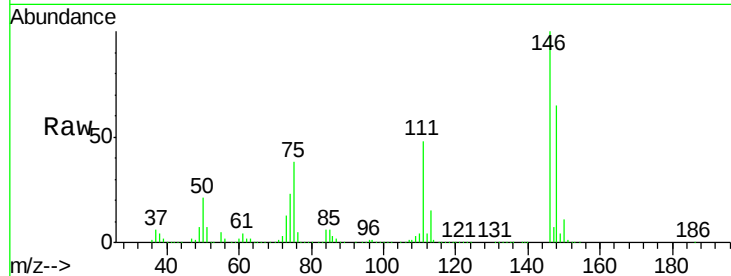
111 47.7 35.4 53.0

148 64.5 50.5 75.7

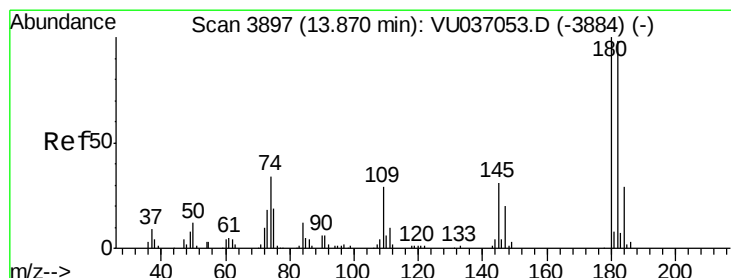
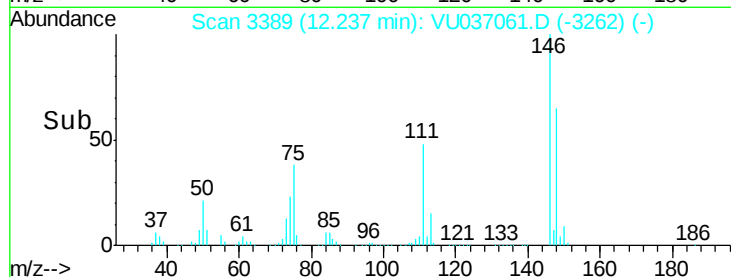
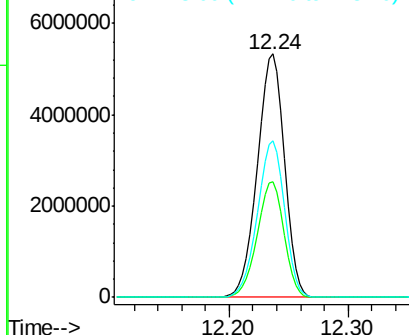
Manual Integrations
APPROVED

sam

3/5/2020 3:34:53 PM



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: 45.476 ug/L

RT: 13.87 min Scan# 3897

Delta R.T. 0.00 min

Lab File: VU037061.D

Acq: 05 Mar 2020 00:51

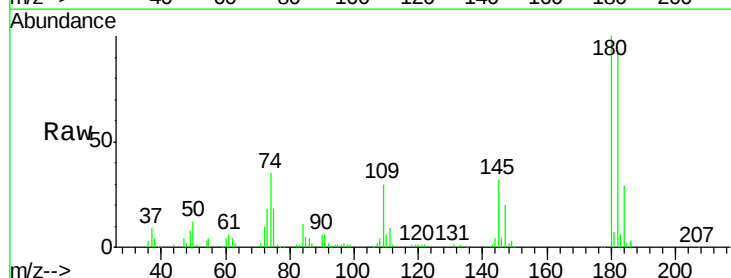
Tgt Ion:180 Resp: 96276

Ion Ratio Lower Upper

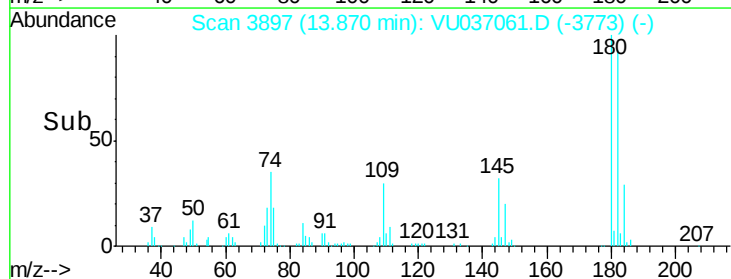
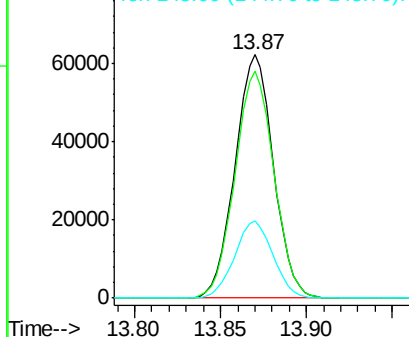
180 100

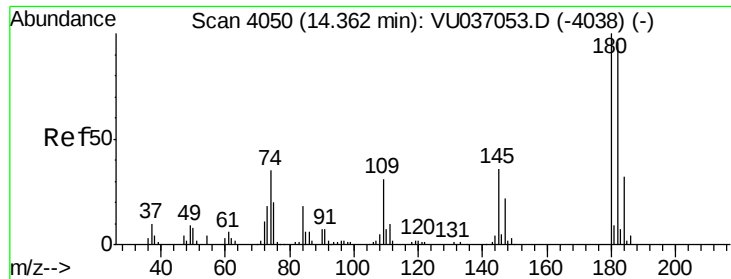
182 94.9 75.3 112.9

145 31.8 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





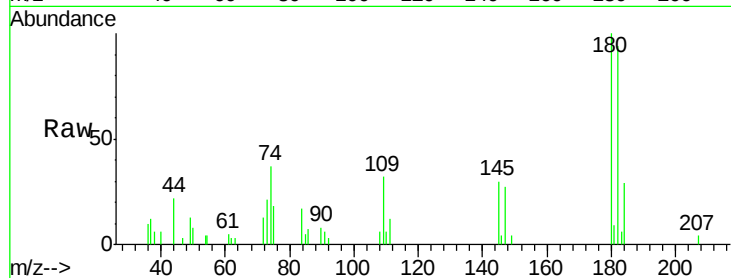
#70
 1,2,3-Trichlorobenzene
 Concen: 2.344 ug/L
 RT: 14.36 min Scan# 4050
 Delta R.T. 0.00 min
 Lab File: VU037061.D
 Acq: 05 Mar 2020 00:51

Instrument :
 MSVOA_U
 ClientSampleId :
 C0DG5

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	77.0	115.6
145	31.9	28.1	42.1

Manual Integrations
 APPROVED

sam
 3/5/2020 3:34:53 PM



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

