

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110920\
 Data File : VU041160.D
 Acq On : 09 Nov 2020 23:29
 Operator : SY/MD
 Sample : L4673-12
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0T2

Quant Time: Nov 10 04:26:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 10 04:18:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	58106	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	57316	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	25874	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	15316	3.14	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.80%
7) Chloroethane-d5	1.92	69	15610	4.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.20%
11) 1,1-Dichloroethene-d2	2.58	63	26928	2.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.20%#
20) 2-Butanone-d5	4.66	46	89352	55.58	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.16%
24) Chloroform-d	5.08	84	42596	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.80%
26) 1,2-Dichloroethane-d4	5.72	65	27730	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.60%
32) Benzene-d6	5.74	84	72711	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
36) 1,2-Dichloropropane-d6	6.70	67	26650	5.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.80%
41) Toluene-d8	7.91	98	60627	4.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.20%
43) trans-1,3-Dichloropropene-	8.19	79	9722	4.49	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.80%
46) 2-Hexanone-d5	8.64	63	61963	53.20	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	106.40%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	24018	5.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.60%
64) 1,2-Dichlorobenzene-d4	12.19	152	26074	5.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.61	62	1533	0.281	ug/L	87
8) Chloroethane	1.67	64	2534	0.733	ug/L #	43
12) 1,1-Dichloroethene	2.59	96	2074	0.505	ug/L #	1
13) Acetone	2.66	43	1228	1.117	ug/L	97
15) Methyl Acetate	3.07	43	428	0.170	ug/L #	53
18) trans-1,2-Dichloroethene	3.37	96	16485	3.952	ug/L	99
19) 1,1-Dichloroethane	3.89	63	2126	0.255	ug/L	94
22) cis-1,2-Dichloroethene	4.69	96	1119236	260.134	ug/L	96
25) Chloroform	5.11	83	3188	0.381	ug/L	91
27) 1,2-Dichloroethane	5.74	62	363	0.058	ug/L #	74
29) 1,1,1-Trichloroethane	5.33	97	10344	1.476	ug/L #	93
30) Cyclohexane	5.41	56	346	0.050	ug/L #	72
31) Carbon tetrachloride	5.54	117	5169	0.833	ug/L	94
33) Benzene	5.79	78	2577	0.150	ug/L	100
34) Trichloroethene	6.56	95	2407934	552.480	ug/L	96
35) Methylcyclohexane	6.70	83	6329	0.974	ug/L #	13
37) 1,2-Dichloropropane	6.70	63	3419	0.738	ug/L #	86

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QLast Update : Tue Nov 10 04:18:40 2020
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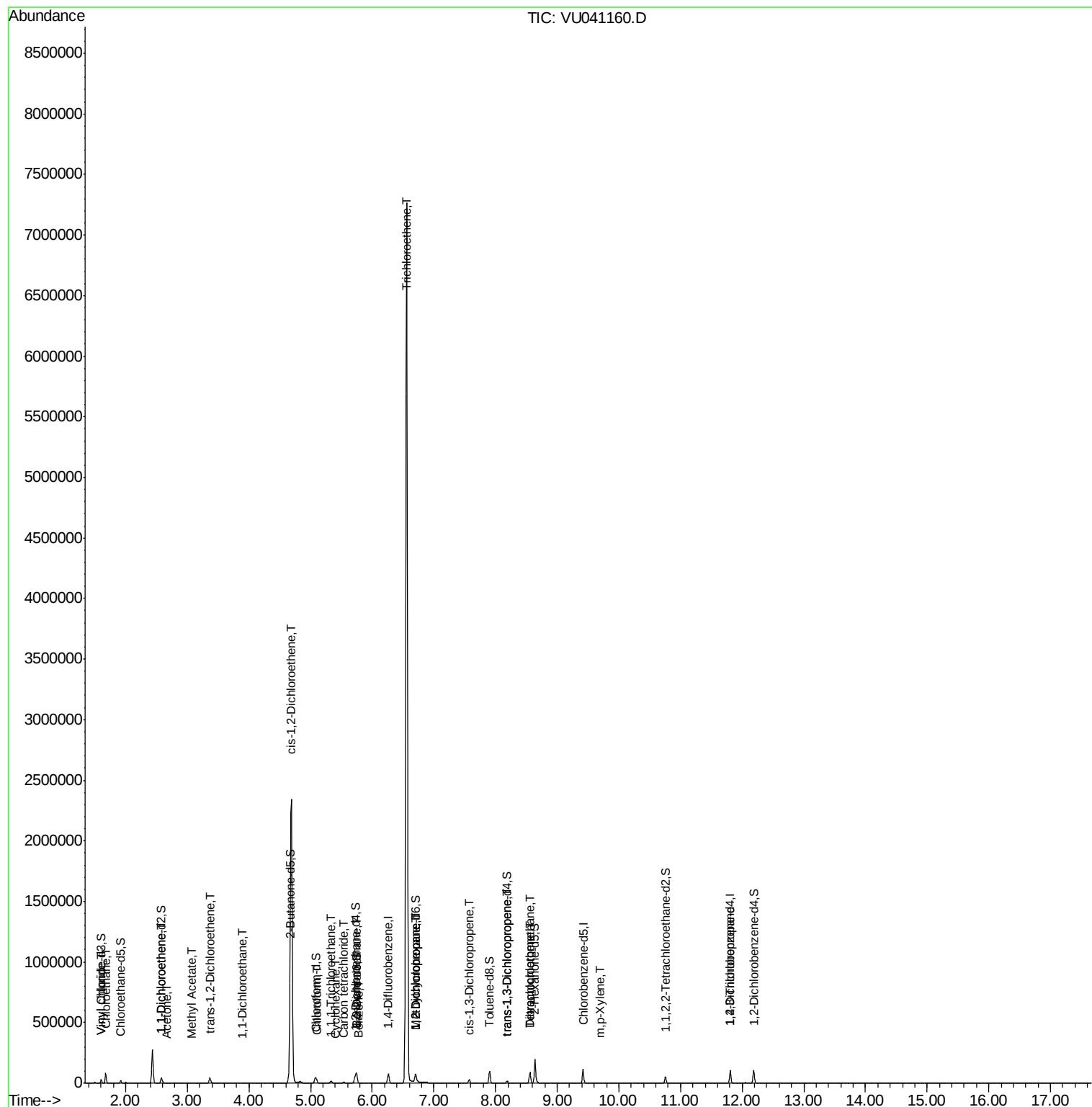
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	804	0.126	ug/L #	77
44) trans-1,3-Dichloropropene	8.19	75	422	0.071	ug/L #	62
47) Tetrachloroethene	8.56	164	18703	5.836	ug/L	97
49) Dibromochloromethane	8.56	129	19186	4.789	ug/L #	11
53) m,p-Xylene	9.69	106	1064	0.160	ug/L	98
59) 1,2,3-Trichloropropane	11.81	75	3294	0.954	ug/L #	83

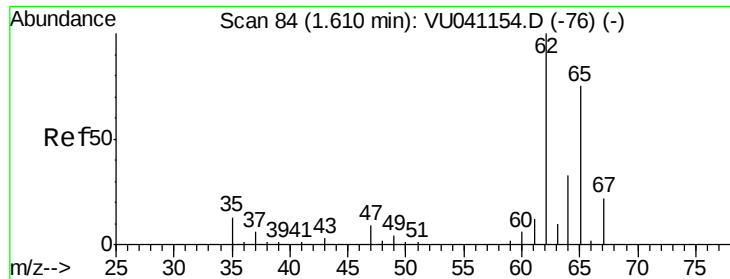
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.281 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU041160.D

Acq: 09 Nov 2020 23:29

Instrument :

MSVOA_U

ClientSampled :

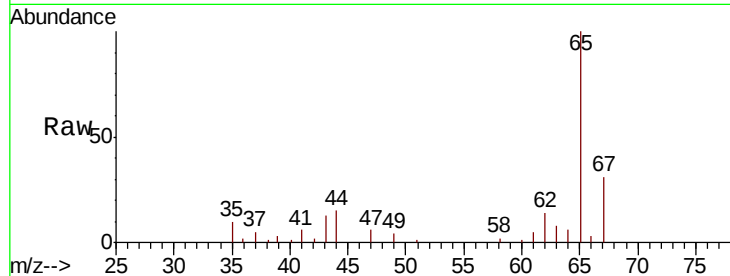
GB0T2

Tot Ion: 62 Resp: 1533

Ion Ratio Lower Upper

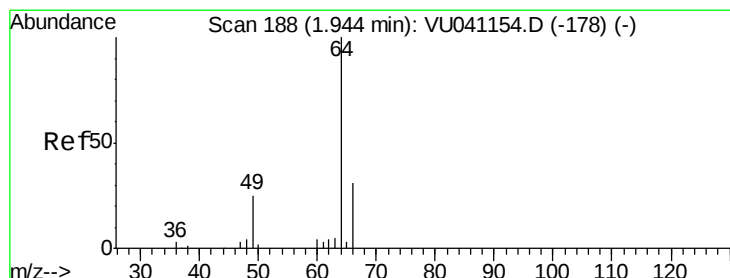
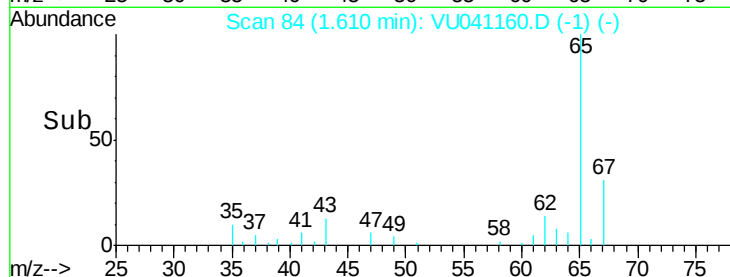
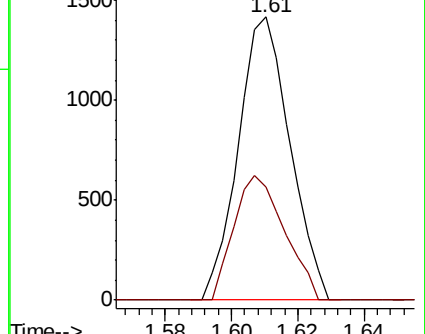
62 100

64 39.9 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.733 ug/L

RT: 1.67 min Scan# 104

Delta R.T. -0.27 min

Lab File: VU041160.D

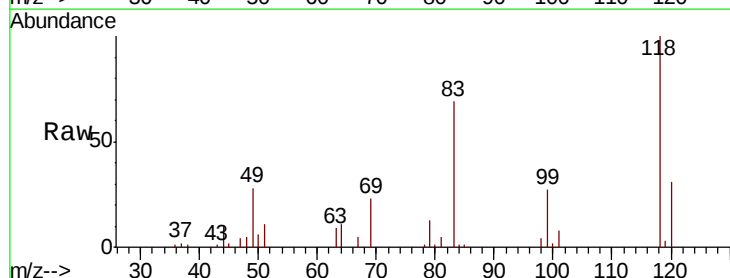
Acq: 09 Nov 2020 23:29

Tgt Ion: 64 Resp: 2534

Ion Ratio Lower Upper

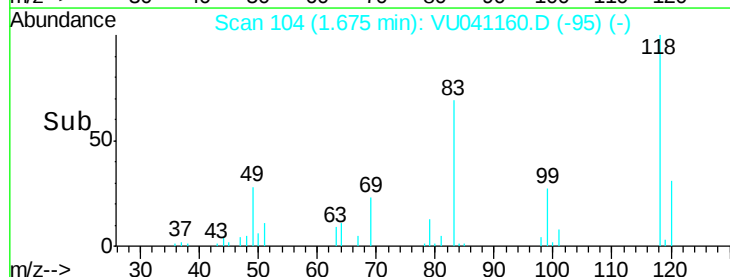
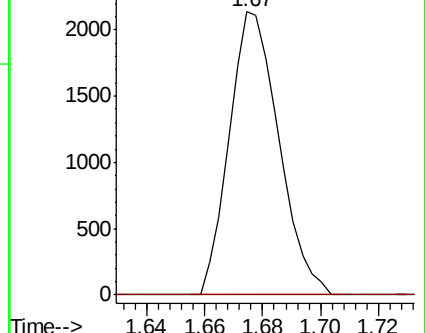
64 100

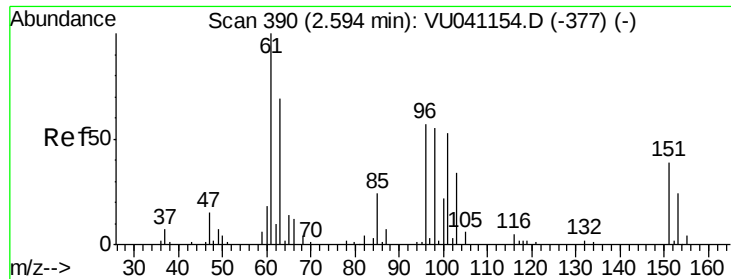
66 0.0 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0

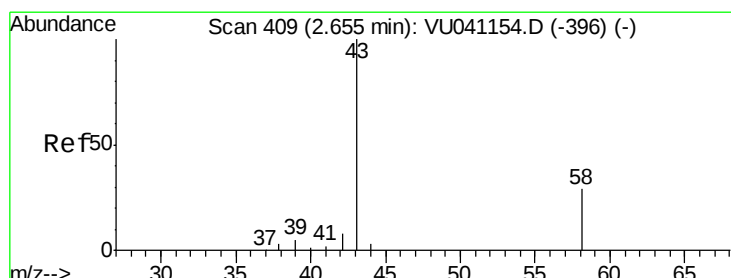
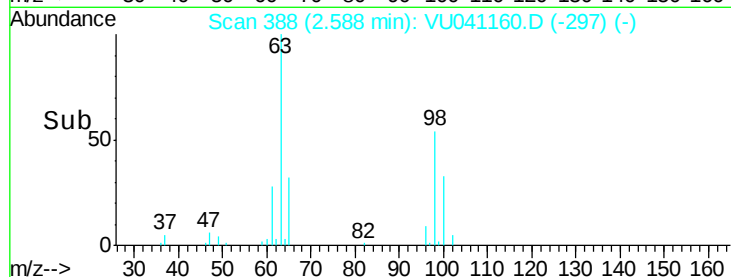
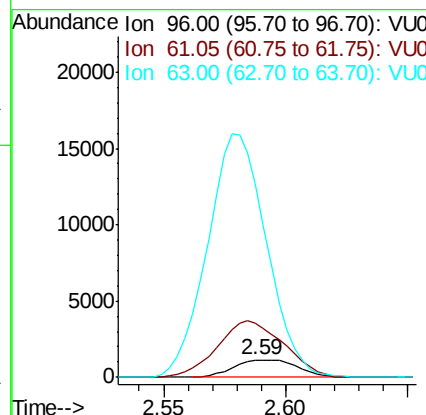
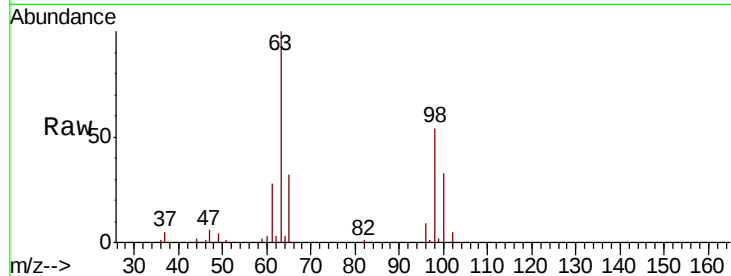




#12
 1,1-Dichloroethene
 Concen: 0.505 ug/L
 RT: 2.59 min Scan# 388
 Delta R.T. -0.01 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

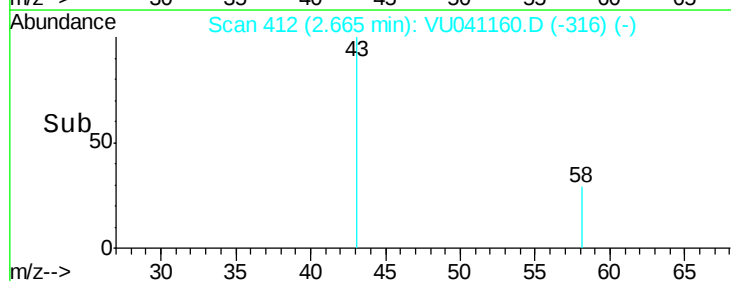
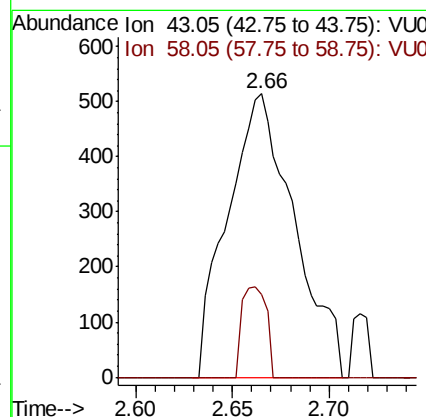
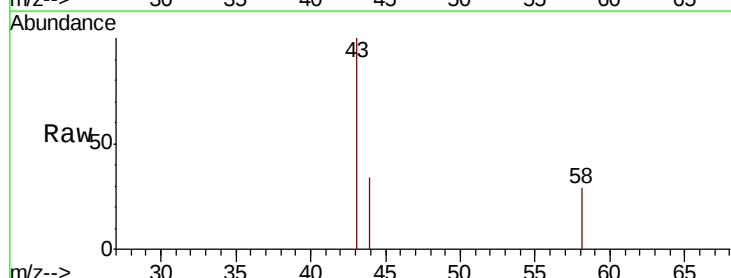
Instrument :
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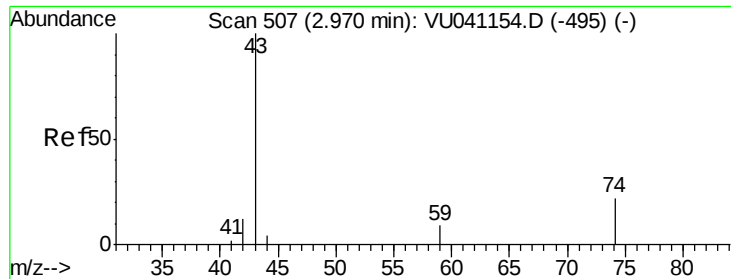
Tot Ion: 96 Resp: 2074
 Ion Ratio Lower Upper
 96 100
 61 308.6 134.3 249.5#
 63 1106.4 95.0 176.4#



#13
 Acetone
 Concen: 1.117 ug/L
 RT: 2.66 min Scan# 412
 Delta R.T. 0.01 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

Tgt Ion: 43 Resp: 1228
 Ion Ratio Lower Upper
 43 100
 58 11.6 0.0 25.4

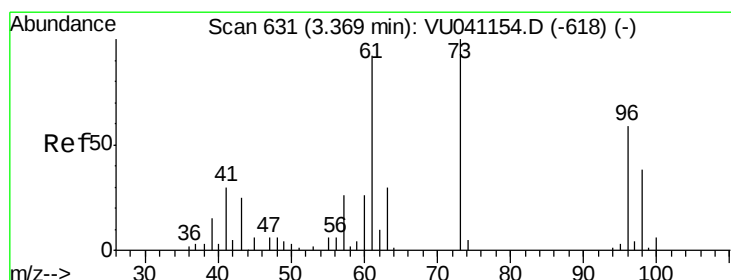
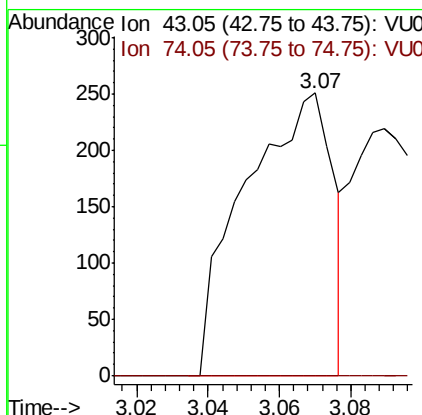
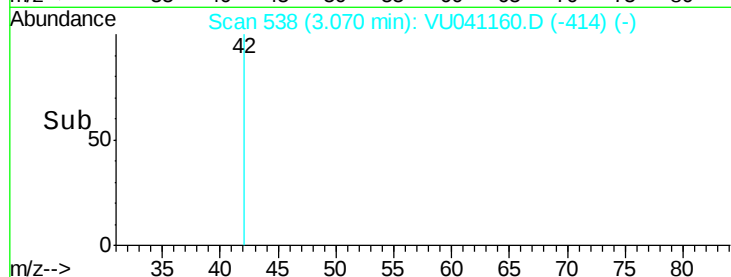
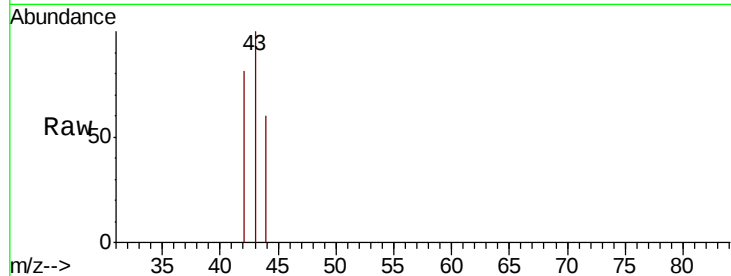




#15
Methyl Acetate
Concen: 0.170 ug/L
RT: 3.07 min Scan# 538
Delta R.T. 0.10 min
Lab File: VU041160.D
Acq: 09 Nov 2020 23:29

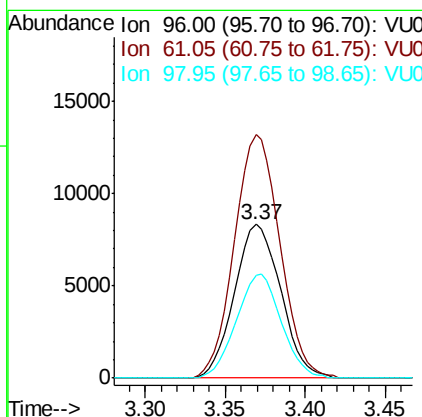
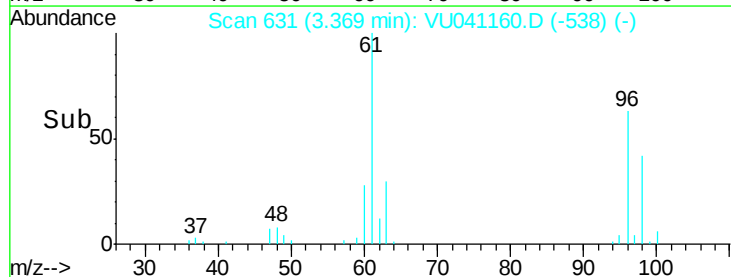
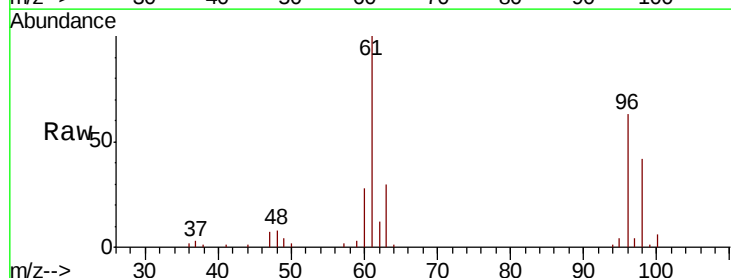
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MSVOA_U
ClientSampleId :
GB0T2

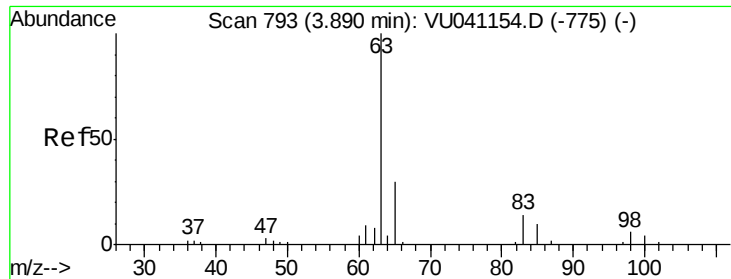
Tot Ion: 43 Resp: 428
Ion Ratio Lower Upper
43 100
74 0.0 18.3 27.5#



#18
trans-1,2-Dichloroethene
Concen: 3.952 ug/L
RT: 3.37 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU041160.D
Acq: 09 Nov 2020 23:29

Tgt Ion: 96 Resp: 16485
Ion Ratio Lower Upper
96 100
61 158.4 110.9 205.9
98 66.6 45.4 84.2

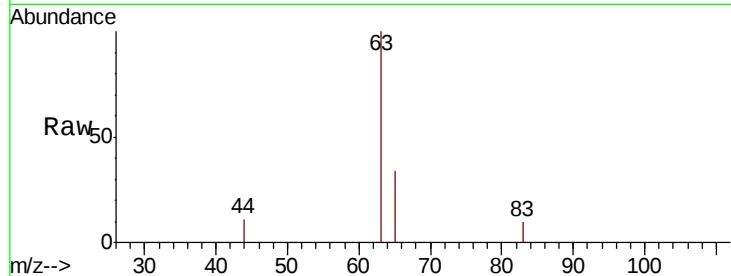




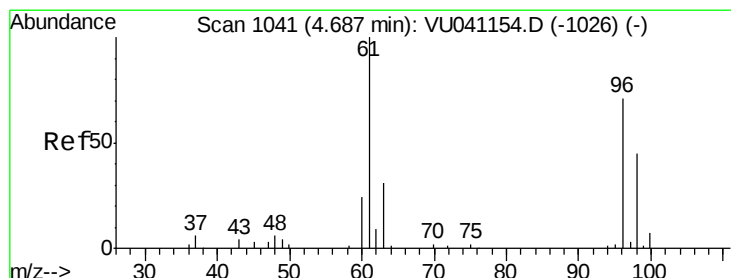
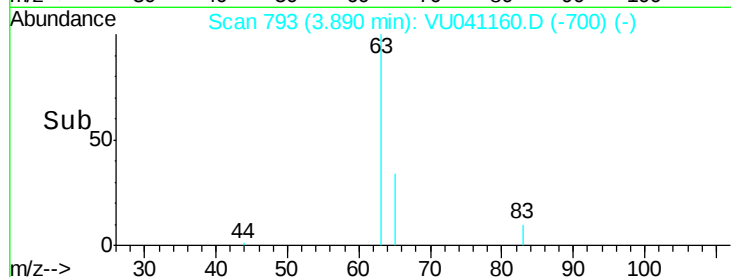
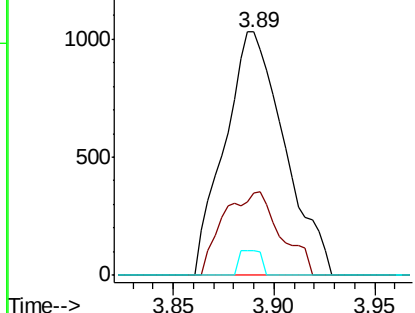
#19
 1,1-Dichloroethane
 Concen: 0.255 ug/L
 RT: 3.89 min Scan# 793
 Delta R.T. 0.00 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0T2

Tot Ion: 63 Resp: 2126
 Ion Ratio Lower Upper
 63 100
 65 34.0 21.3 39.6
 83 10.2 8.8 16.3

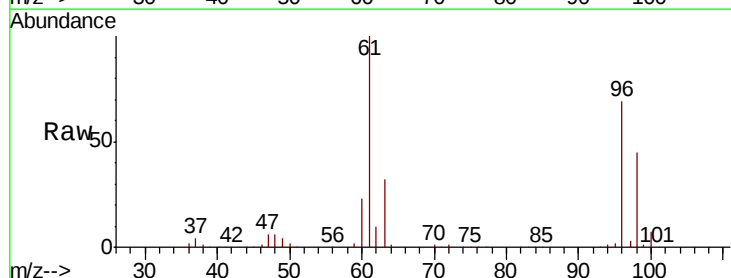


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

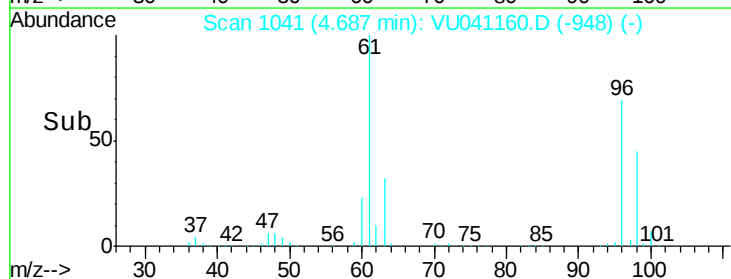
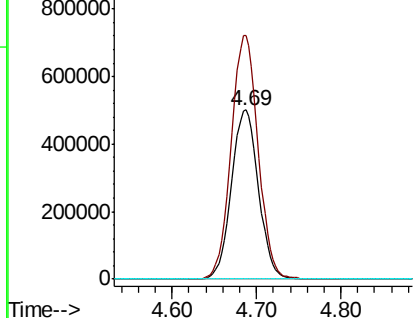


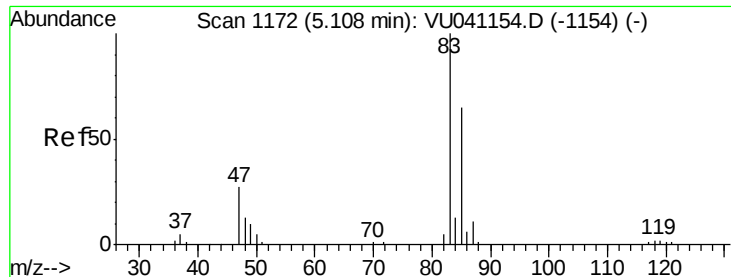
#22
 cis-1,2-Dichloroethene
 Concen: 260.134 ug/L
 RT: 4.69 min Scan# 1041
 Delta R.T. 0.00 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

Tgt Ion: 96 Resp: 1119236
 Ion Ratio Lower Upper
 96 100
 61 144.0 97.2 180.4
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

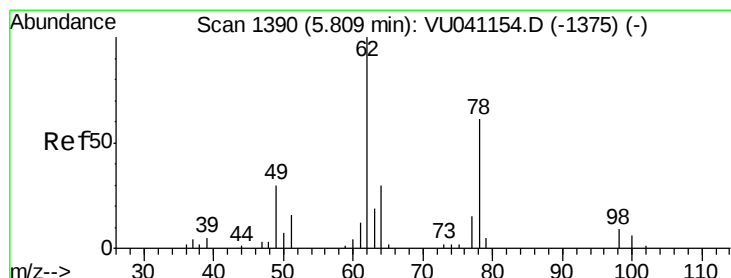
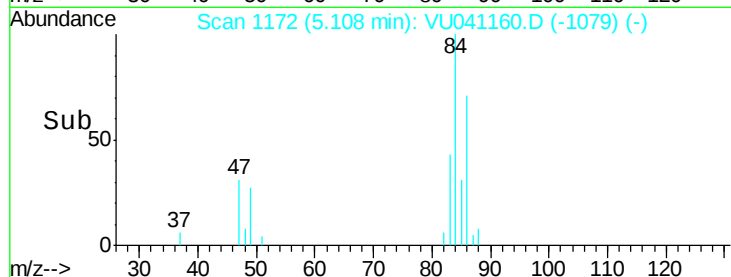
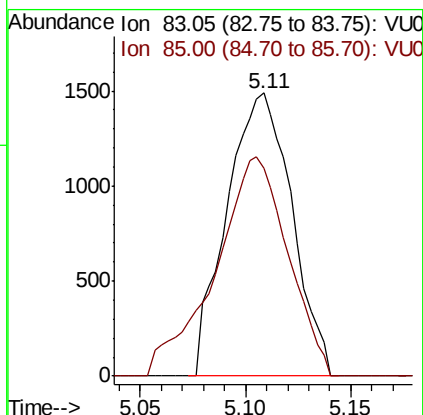
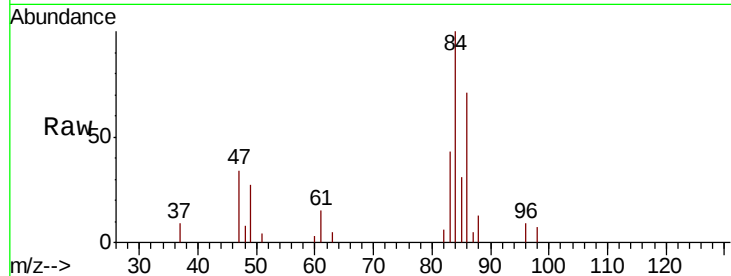




#25
Chloroform
Concen: 0.381 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU041160.D
Acq: 09 Nov 2020 23:29

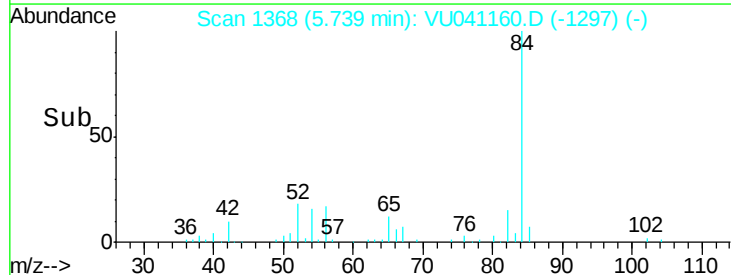
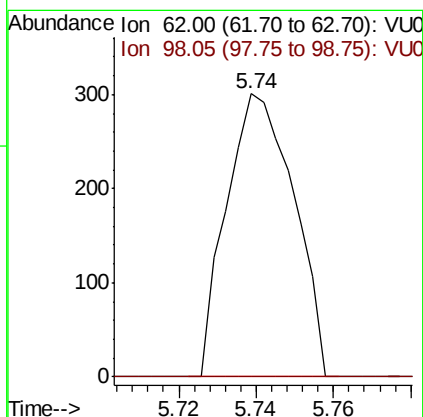
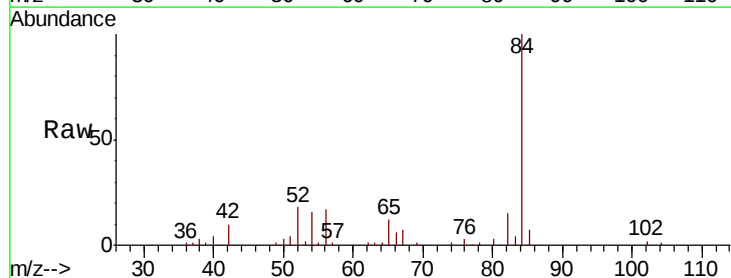
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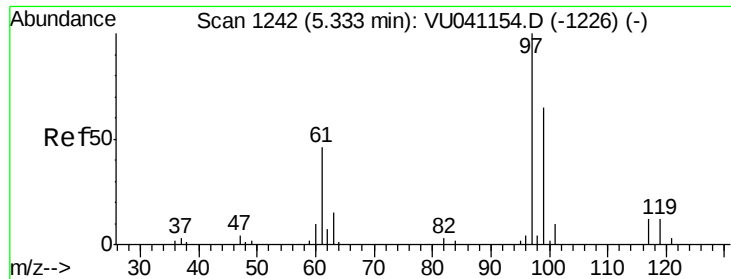
Tot Ion: 83 Resp: 3188
Ion Ratio Lower Upper
83 100
85 73.4 46.1 85.7



#27
1,2-Dichloroethane
Concen: 0.058 ug/L
RT: 5.74 min Scan# 1368
Delta R.T. -0.07 min
Lab File: VU041160.D
Acq: 09 Nov 2020 23:29

Tgt Ion: 62 Resp: 363
Ion Ratio Lower Upper
62 100
98 0.0 7.6 11.4#

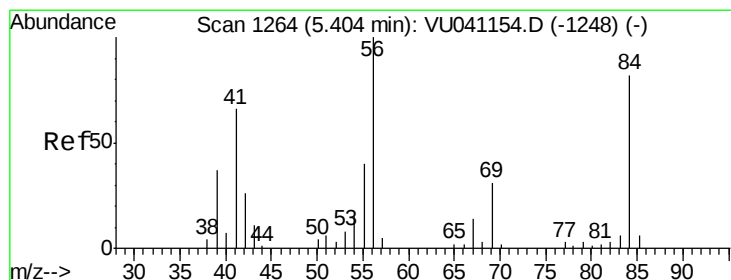
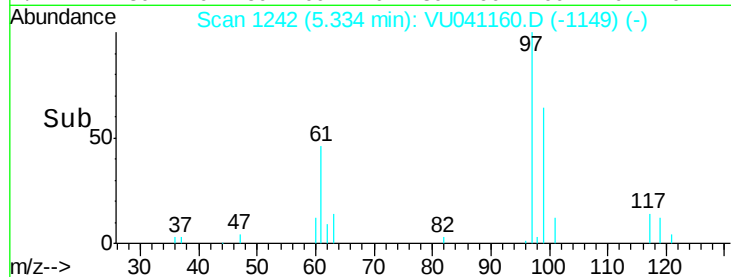
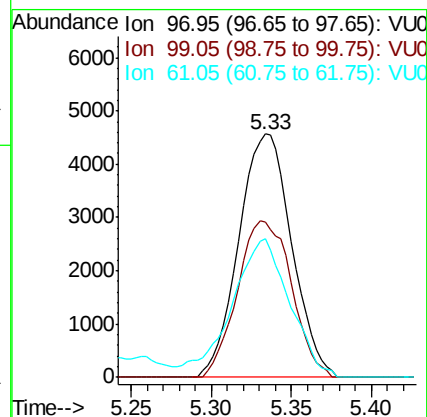
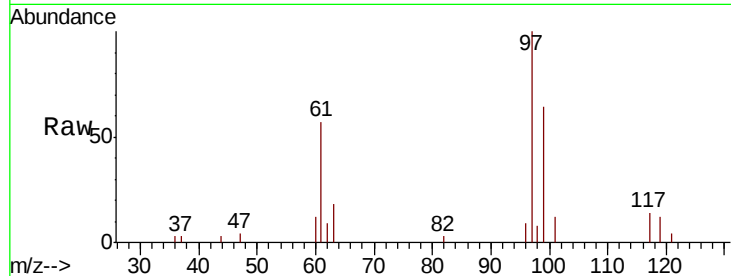




#29
 1,1,1-Trichloroethane
 Concen: 1.476 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

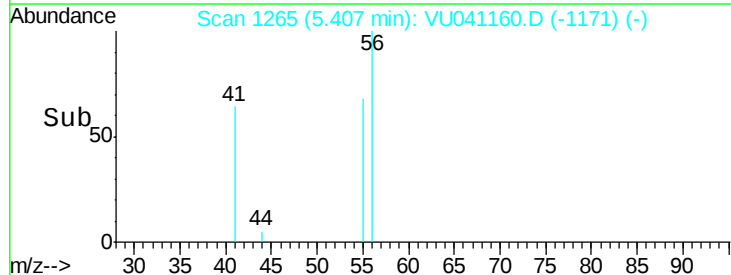
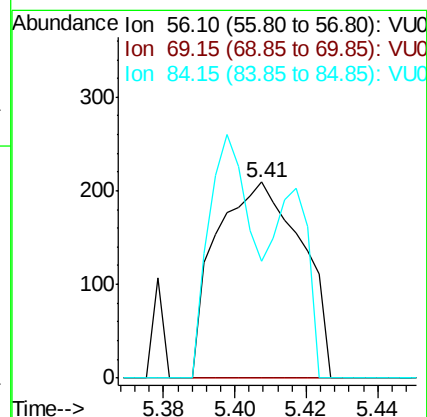
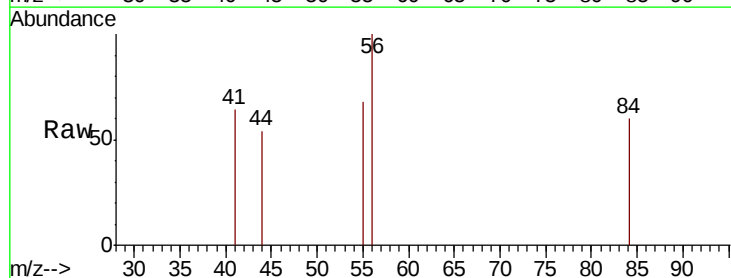
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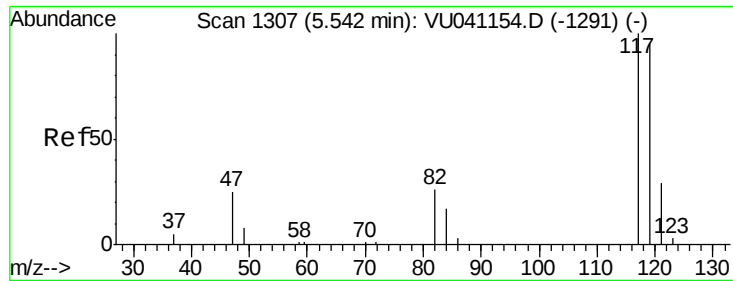
Tot Ion: 97 Resp: 10344
 Ion Ratio Lower Upper
 97 100
 99 65.6 53.4 80.0
 61 62.8 41.6 62.4#



#30
 Cyclohexane
 Concen: 0.050 ug/L
 RT: 5.41 min Scan# 1265
 Delta R.T. 0.00 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

Tgt Ion: 56 Resp: 346
 Ion Ratio Lower Upper
 56 100
 69 0.0 22.8 34.2#
 84 62.4 63.6 95.4#





#31

Carbon tetrachloride

Concen: 0.833 ug/L

RT: 5.54 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VU041160.D

Acq: 09 Nov 2020 23:29

Instrument :

MSVOA_U

ClientSampleId :

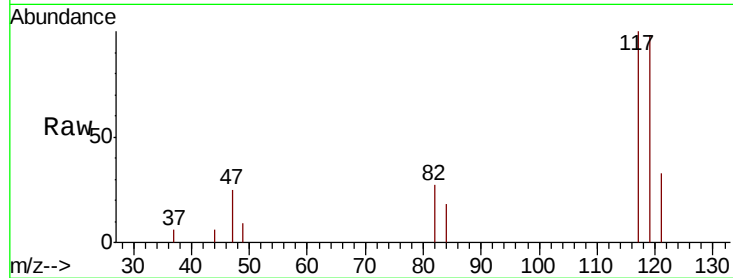
GB0T2

Tot Ion:117 Resp: 5169

Ion Ratio Lower Upper

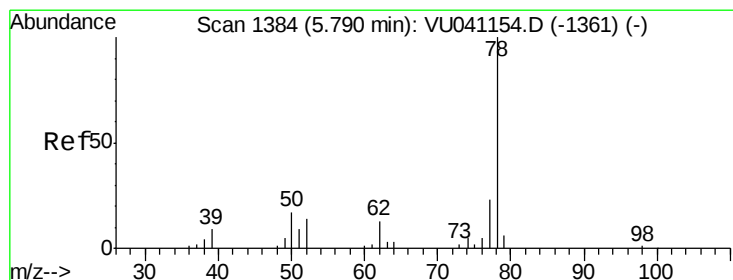
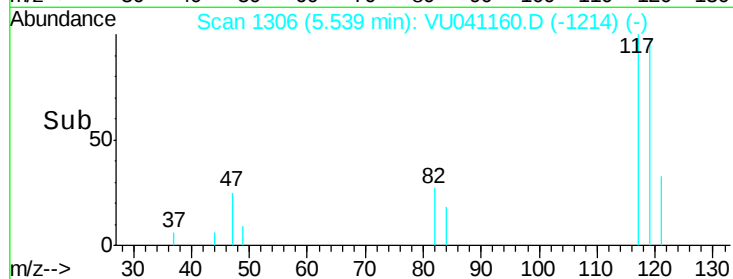
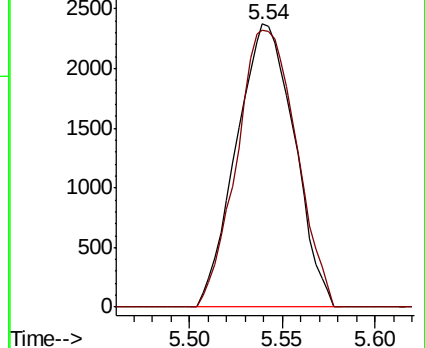
117 100

119 100.5 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.150 ug/L

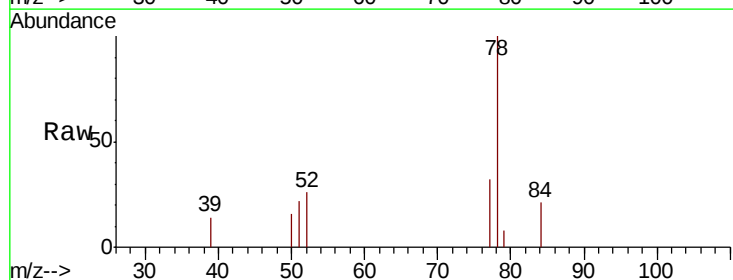
RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

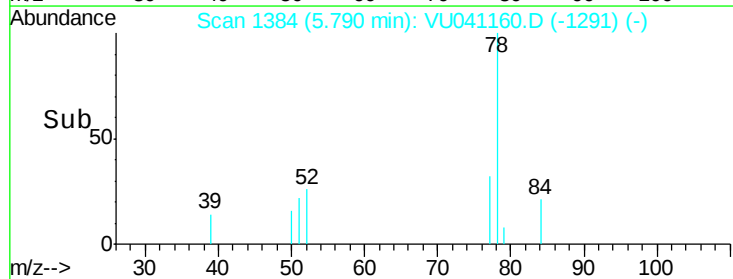
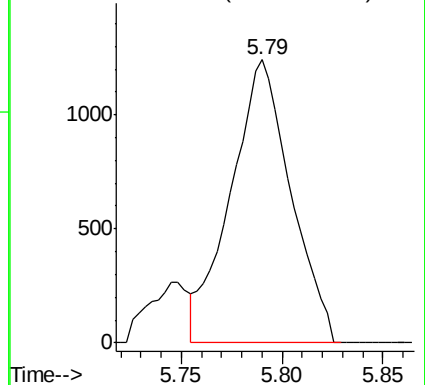
Lab File: VU041160.D

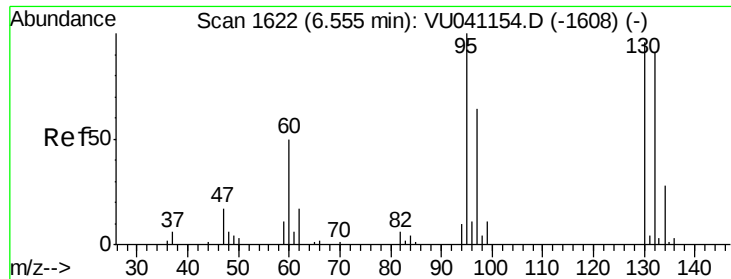
Acq: 09 Nov 2020 23:29

Tgt Ion: 78 Resp: 2577



Abundance Ion 78.10 (77.80 to 78.80): VU0

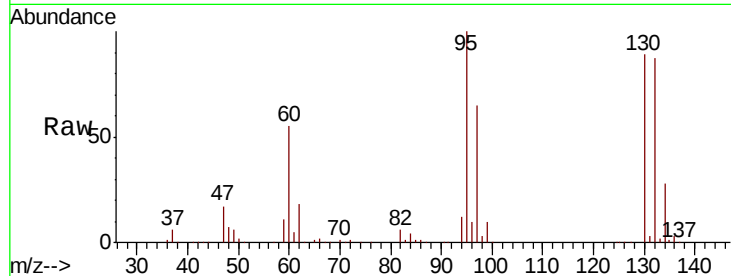




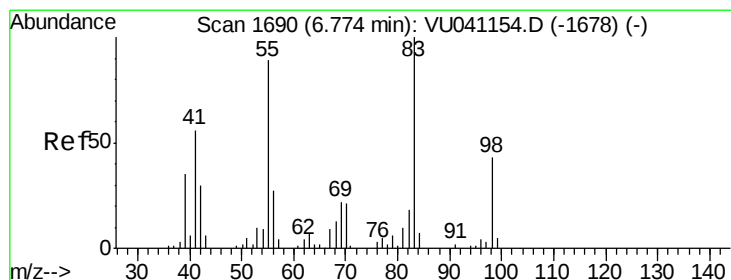
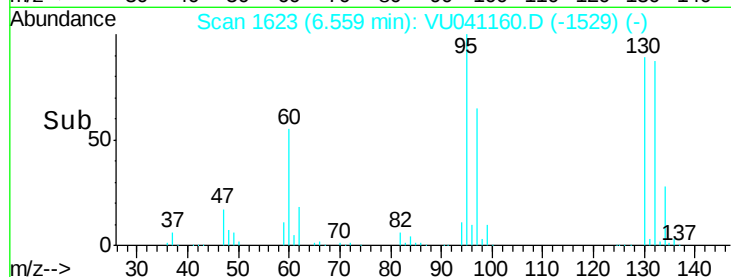
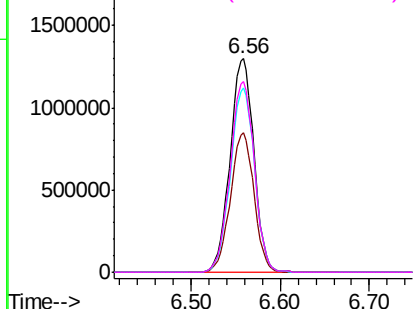
#34
 Trichloroethene
 Concen: 552.480 ug/L
 RT: 6.56 min Scan# 1623
 Delta R.T. 0.00 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0T2

Tot Ion: 95 Resp: 2407934
 Ion Ratio Lower Upper
 95 100
 97 65.2 45.6 84.6
 132 86.5 64.8 120.4
 130 89.4 64.8 120.4

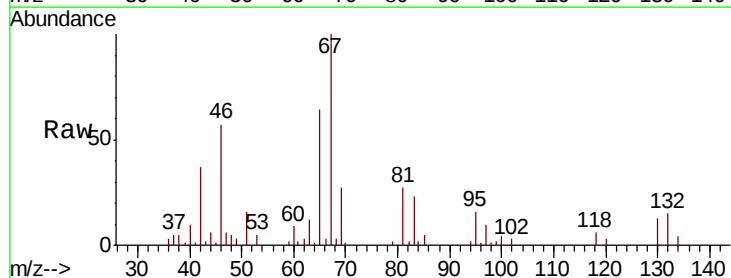


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

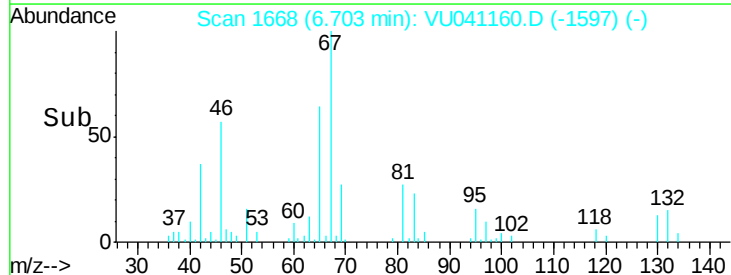
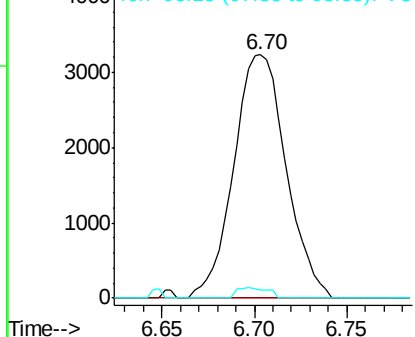


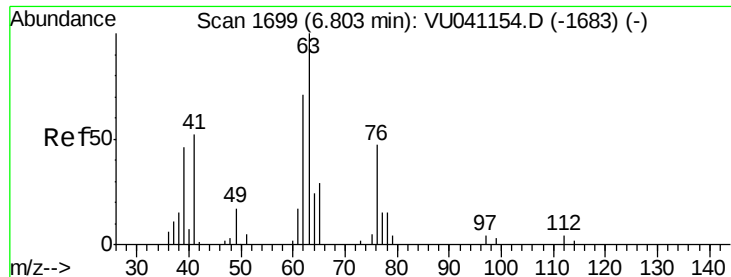
#35
 Methylcyclohexane
 Concen: 0.974 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

Tgt Ion: 83 Resp: 6329
 Ion Ratio Lower Upper
 83 100
 55 0.0 72.0 108.0#
 98 0.0 36.6 55.0#



Abundance Ion 83.15 (82.85 to 83.85): VU0
 Ion 55.10 (54.80 to 55.80): VU0
 Ion 98.15 (97.85 to 98.85): VU0

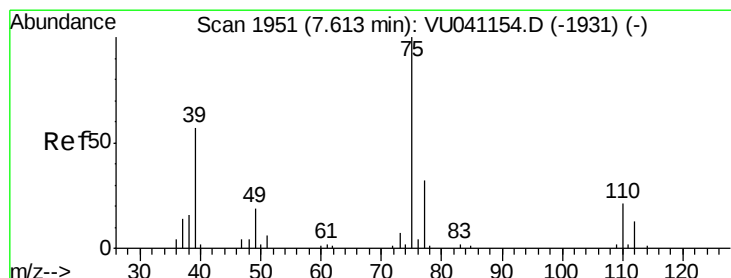
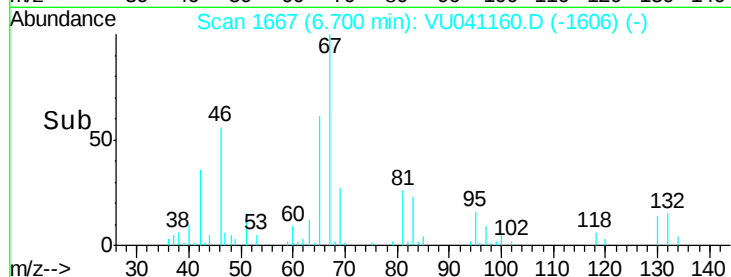
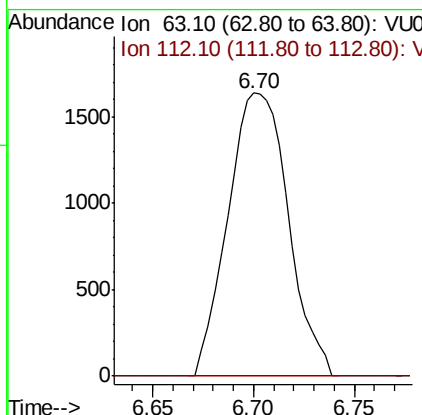
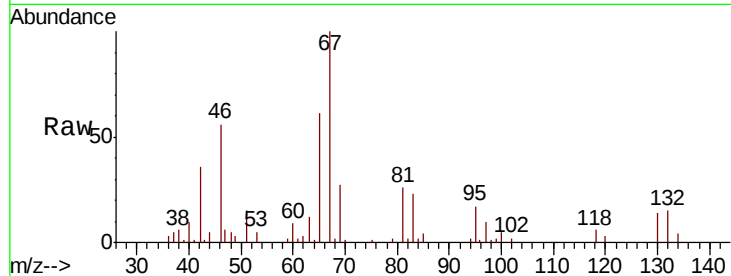




#37
 1,2-Dichloropropane
 Concen: 0.738 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

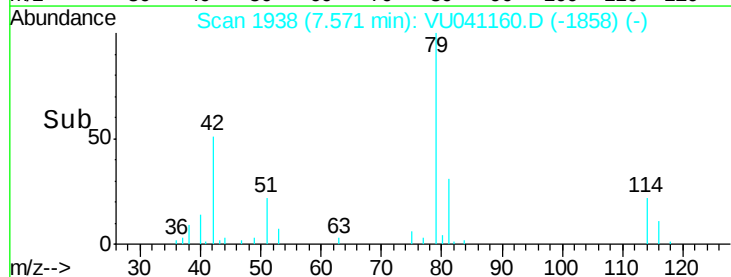
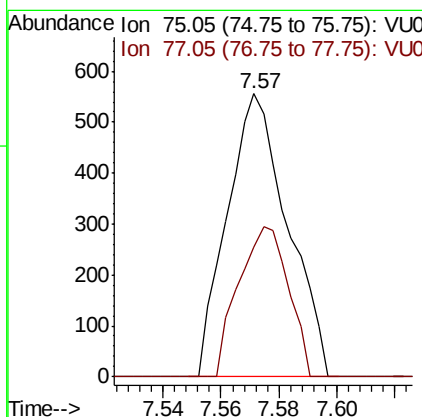
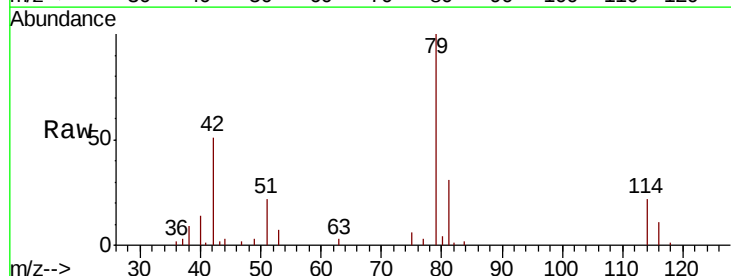
Instrument :
 MSVOA_U
 ClientSampleId :
 GB0T2

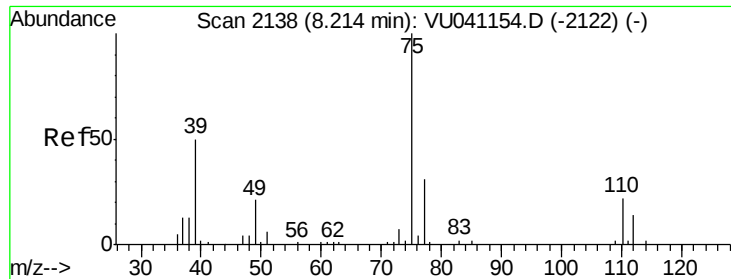
Tot Ion: 63 Resp: 3419
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.126 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041160.D
 Acq: 09 Nov 2020 23:29

Tgt Ion: 75 Resp: 804
 Ion Ratio Lower Upper
 75 100
 77 45.7 22.7 42.3#





#44

trans-1,3-Dichloropropene

Concen: 0.071 ug/L

RT: 8.19 min Scan# 2129

Delta R.T. -0.03 min

Lab File: VU041160.D

Acq: 09 Nov 2020 23:29

Instrument :

MSVOA_U

ClientSampleId :

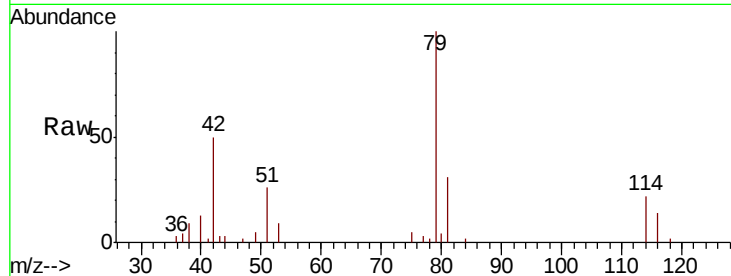
GB0T2

Tot Ion: 75 Resp: 422

Ion Ratio Lower Upper

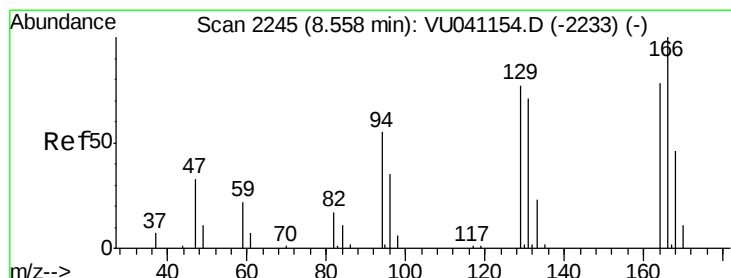
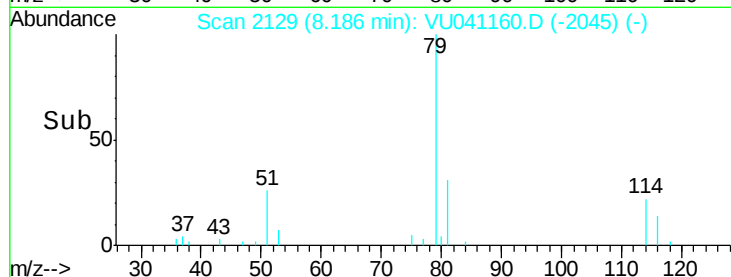
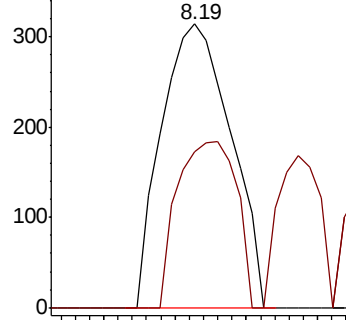
75 100

77 54.8 23.3 43.3#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#47

Tetrachloroethene

Concen: 5.836 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041160.D

Acq: 09 Nov 2020 23:29

Tgt Ion:164 Resp: 18703

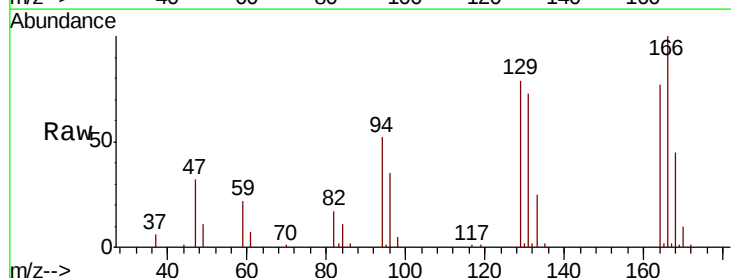
Ion Ratio Lower Upper

164 100

129 101.8 70.3 130.7

131 94.3 70.8 131.4

166 129.5 92.0 170.8

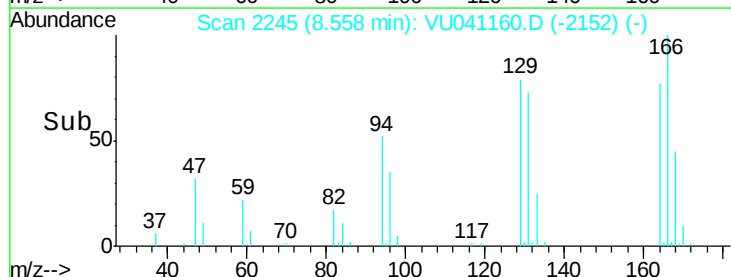
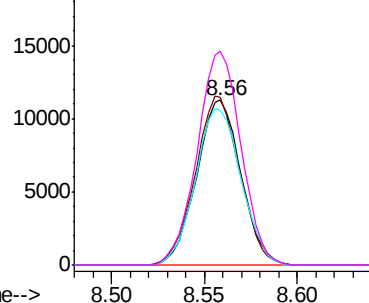


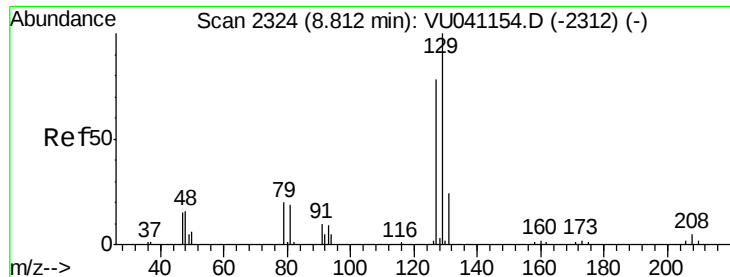
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





#49

Dibromochloromethane

Concen: 4.789 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041160.D

Acq: 09 Nov 2020 23:29

Instrument :

MSVOA_U

ClientSampleId :

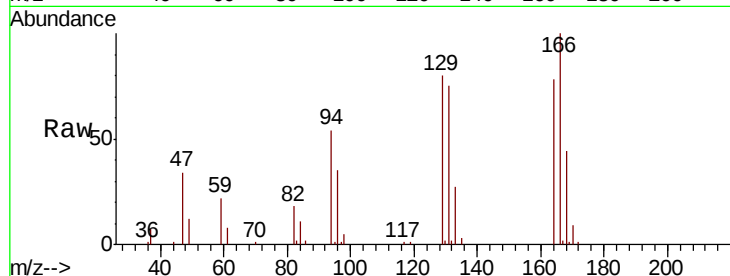
GB0T2

Tot Ion:129 Resp: 19186

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

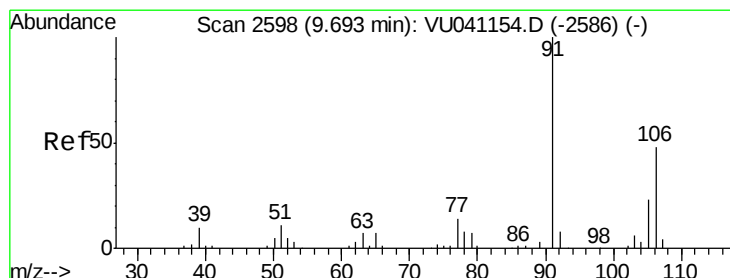
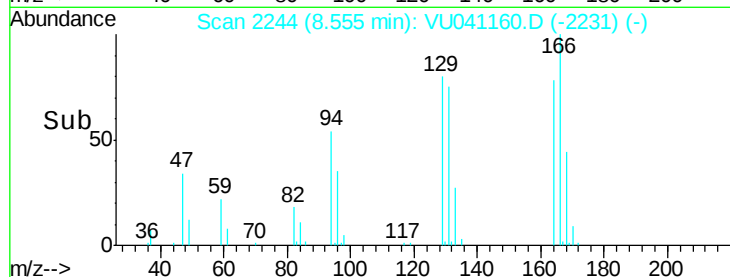
8.56

10000

5000

0

Time-->



#53

m,p-Xylene

Concen: 0.160 ug/L

RT: 9.69 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VU041160.D

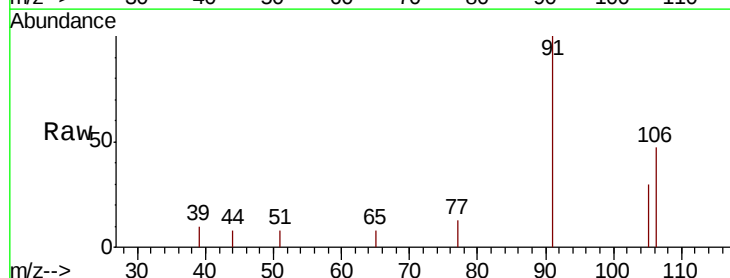
Acq: 09 Nov 2020 23:29

Tgt Ion:106 Resp: 1064

Ion Ratio Lower Upper

106 100

91 212.0 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0

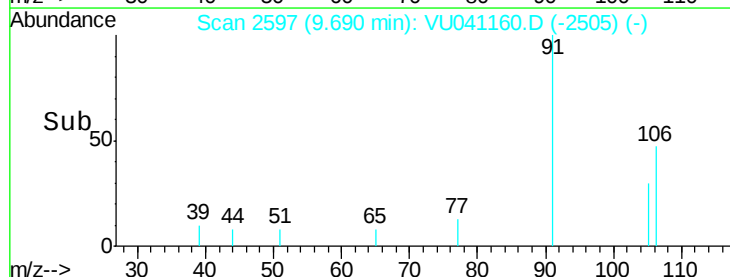
1500

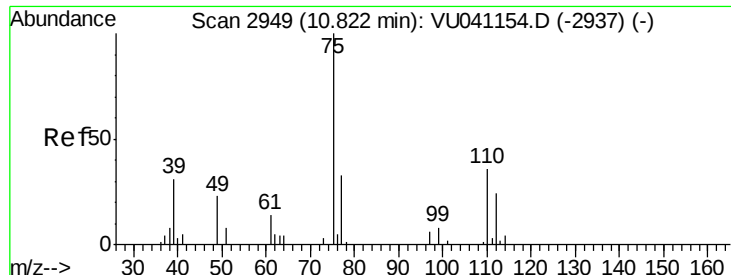
1000

500

0

Time-->





#59

1,2,3-Trichloropropane

Concen: 0.954 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041160.D

Acq: 09 Nov 2020 23:29

Instrument :

MSVOA_U

ClientSampleId :

GB0T2

Tot Ion: 75 Resp: 3294

Ion Ratio Lower Upper

75 100

77 41.8 25.7 38.5#

