

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051520\
 Data File : VU038198.D
 Acq On : 15 May 2020 15:17
 Operator : JC/MD
 Sample : L2657-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 16 03:34:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 16 03:30:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.28	114	330614	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	323079	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	153091	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	112508	3.72	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.40%
7) Chloroethane-d5	1.93	69	110823	4.24	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.80%
11) 1,1-Dichloroethene-d2	2.59	63	154607	3.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.20%
20) 2-Butanone-d5	4.66	46	403419	54.07	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.14%
24) Chloroform-d	5.10	84	213121	4.64	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.80%
26) 1,2-Dichloroethane-d4	5.74	65	130174	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.76	84	452441	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.40%
36) 1,2-Dichloropropane-d6	6.72	67	151026	4.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.60%
41) Toluene-d8	7.92	98	391747	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	8.20	79	51953	4.15	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.00%
46) 2-Hexanone-d5	8.65	63	332540	56.26	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.52%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	119541	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.00%
64) 1,2-Dichlorobenzene-d4	12.20	152	146301	4.91	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	139213	4.604 ug/L	99
9) Trichlorofluoromethane	2.16	101	12537	0.343 ug/L	100
12) 1,1-Dichloroethene	2.61	96	8591	0.374 ug/L #	1
17) Methyl tert-butyl Ether	3.40	73	43998	0.690 ug/L	97
18) trans-1,2-Dichloroethene	3.39	96	2482	0.099 ug/L	80
19) 1,1-Dichloroethane	3.92	63	6373	0.130 ug/L	94
22) cis-1,2-Dichloroethene	4.71	96	58528	2.168 ug/L	100
25) Chloroform	5.13	83	10905	0.239 ug/L	95
34) Trichloroethene	6.57	95	1361779	52.627 ug/L	98
35) Methylcyclohexane	6.72	83	34374	0.820 ug/L #	15
37) 1,2-Dichloropropane	6.72	63	15786	0.562 ug/L #	89
39) cis-1,3-Dichloropropene	7.59	75	3560	0.089 ug/L #	50
45) 1,1,2-Trichloroethane	8.57	97	8635	0.442 ug/L #	1
47) Tetrachloroethene	8.57	164	1031355	56.983 ug/L	99
48) 2-Hexanone	8.71	43	18192	1.275 ug/L	97
49) Dibromochloromethane	8.57	129	999256	49.340 ug/L #	10
59) 1,2,3-Trichloropropane	11.83	75	21433	1.136 ug/L	91

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Response via : Initial Calibration

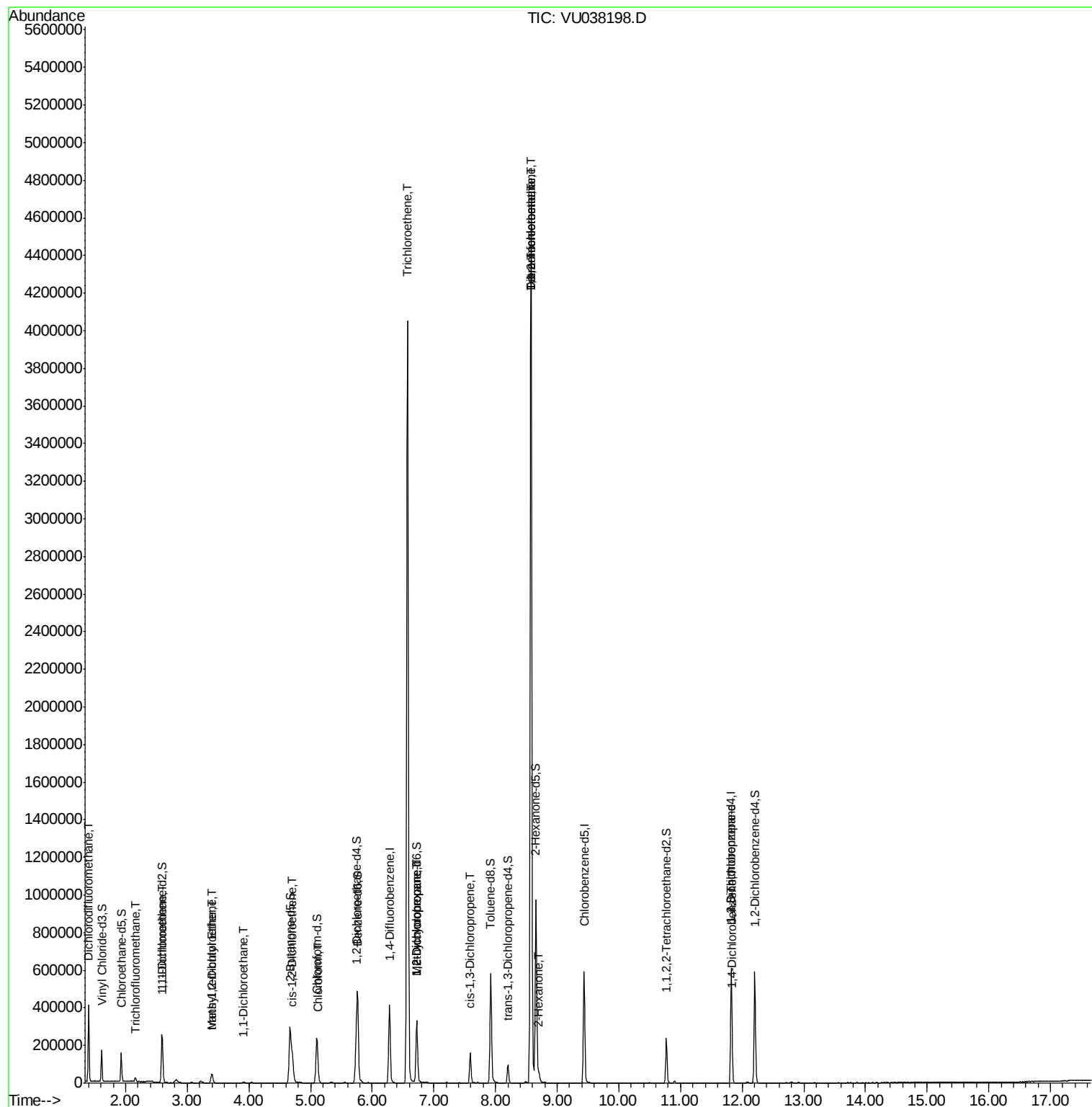
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,4-Dichlorobenzene	11.85	146	3816	0.076	ug/L	96

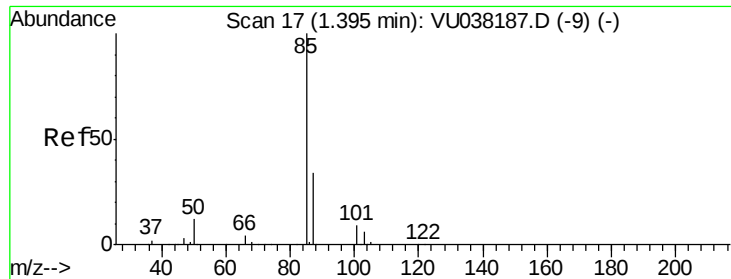
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.604 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU038198.D

Acq: 15 May 2020 15:17

Instrument :

MSVOA_U

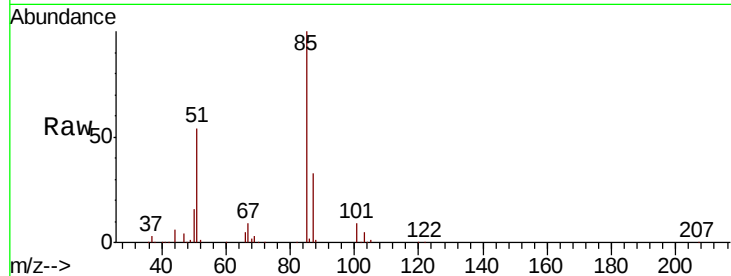
ClientSampleId :

Tot Ion: 85 Resp: 139213

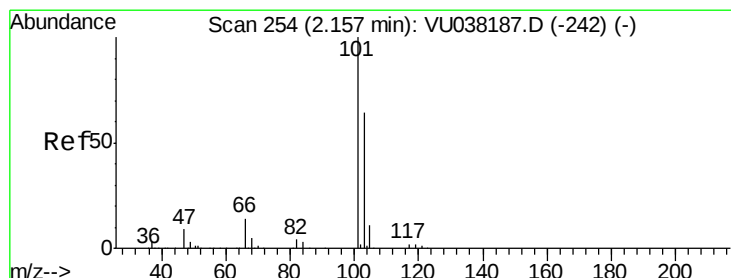
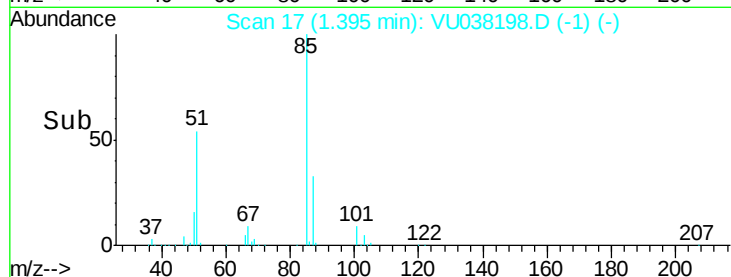
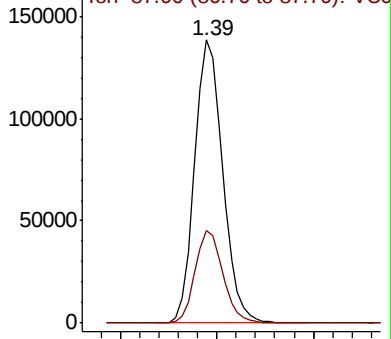
Ion Ratio Lower Upper

85 100

87 32.4 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU038198.D (-1) (-)



#9

Trichlorofluoromethane

Concen: 0.343 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU038198.D

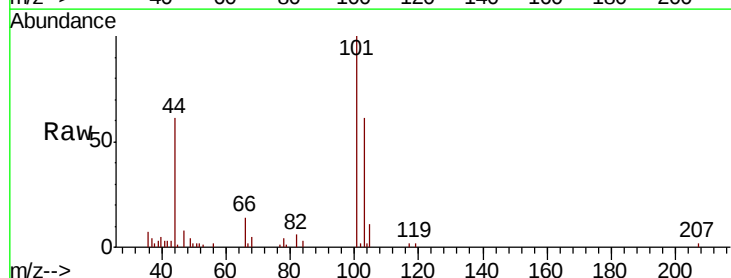
Acq: 15 May 2020 15:17

Tgt Ion:101 Resp: 12537

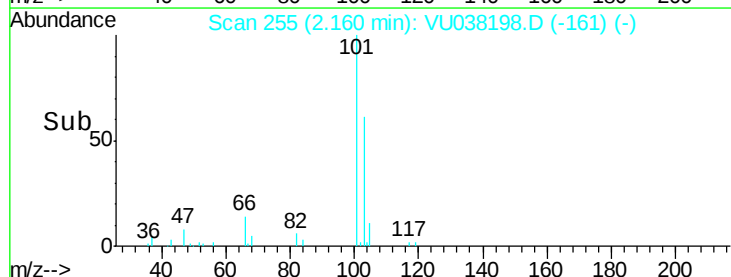
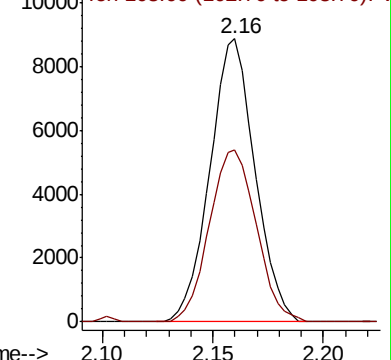
Ion Ratio Lower Upper

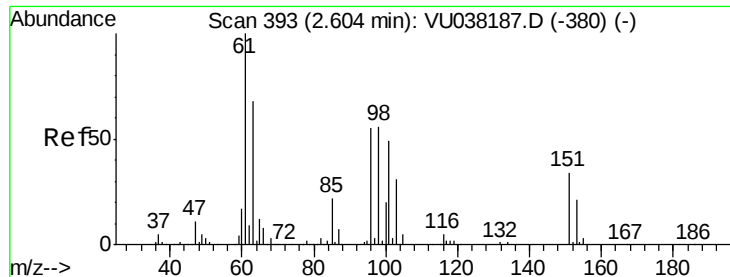
101 100

103 63.3 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU038198.D (-161) (-)





#12

1,1-Dichloroethene

Concen: 0.374 ug/L

RT: 2.61 min Scan# 394

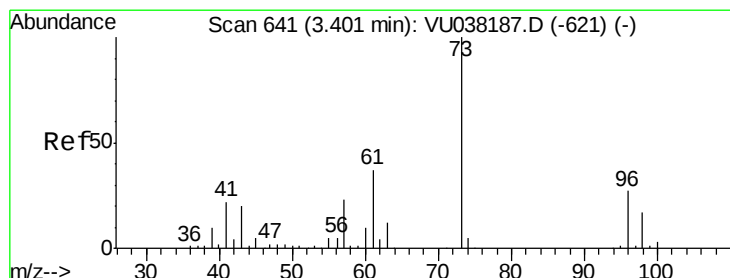
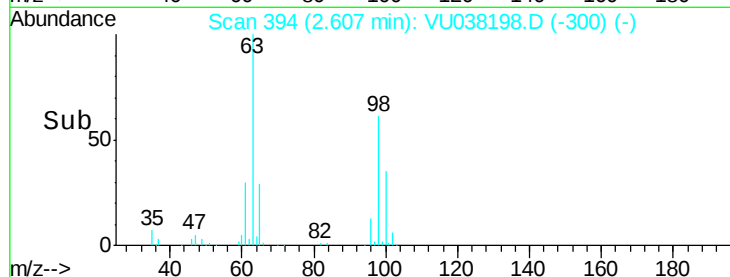
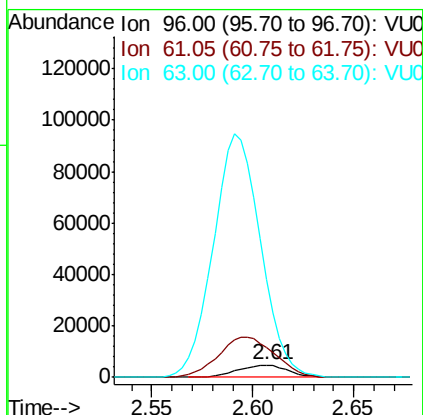
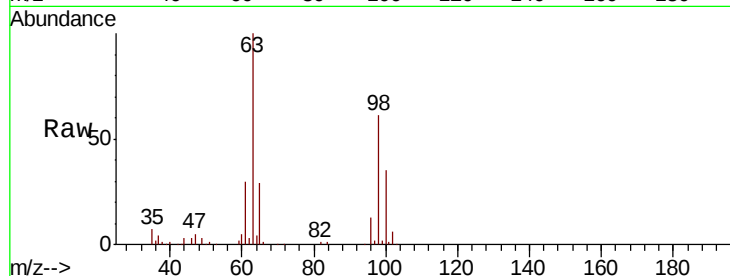
Delta R.T. 0.00 min

Lab File: VU038198.D

Acq: 15 May 2020 15:17

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 96 Resp: 8591
Ion Ratio Lower Upper
96 100
61 239.5 126.2 234.4#
63 786.9 96.9 179.9#



#17

Methyl tert-butyl Ether

Concen: 0.690 ug/L

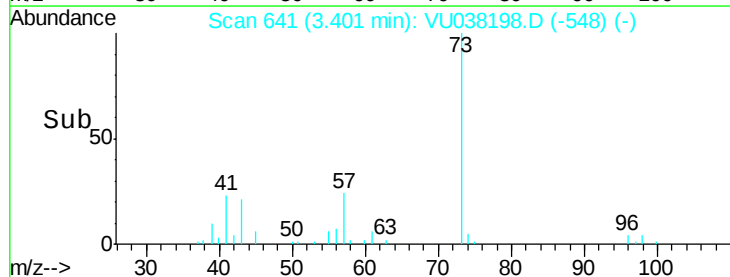
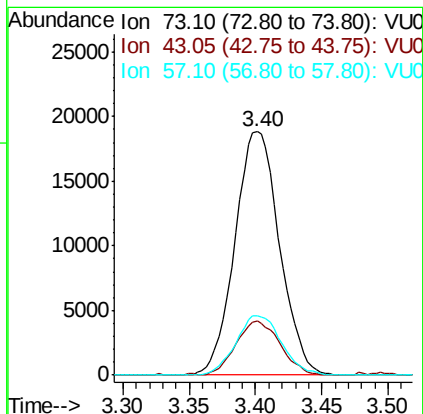
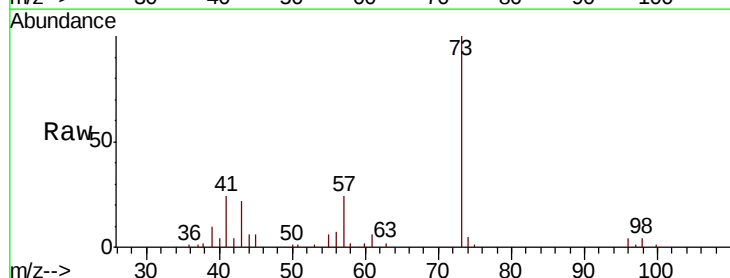
RT: 3.40 min Scan# 641

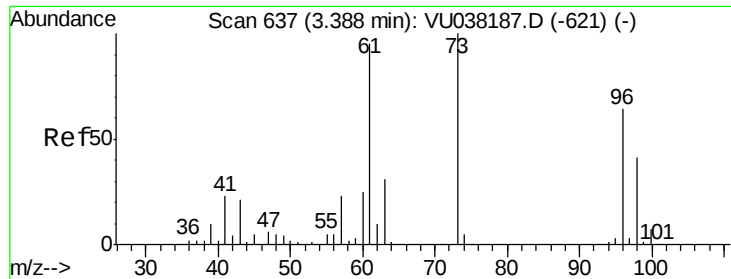
Delta R.T. -0.00 min

Lab File: VU038198.D

Acq: 15 May 2020 15:17

Tgt Ion: 73 Resp: 43998
Ion Ratio Lower Upper
73 100
43 22.1 16.9 25.3
57 25.0 18.2 27.2





#18

trans-1,2-Dichloroethene

Concen: 0.099 ug/L

RT: 3.39 min Scan# 638

Delta R.T. 0.00 min

Lab File: VU038198.D

Acq: 15 May 2020 15:17

Instrument :

MSVOA_U

ClientSampleId :

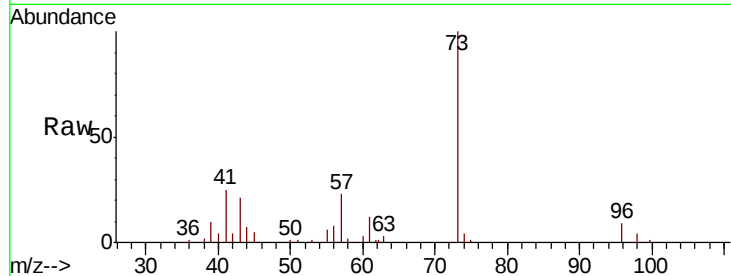
Tot Ion: 96 Resp: 2482

Ion Ratio Lower Upper

96 100

61 122.5 102.1 189.5

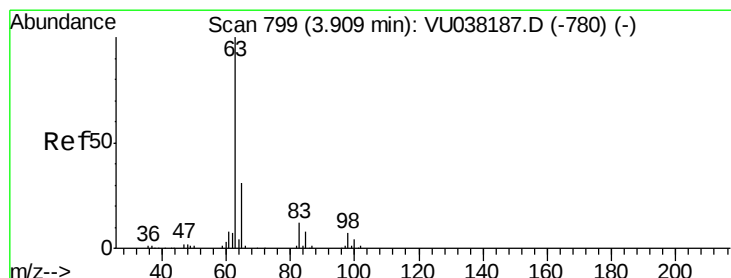
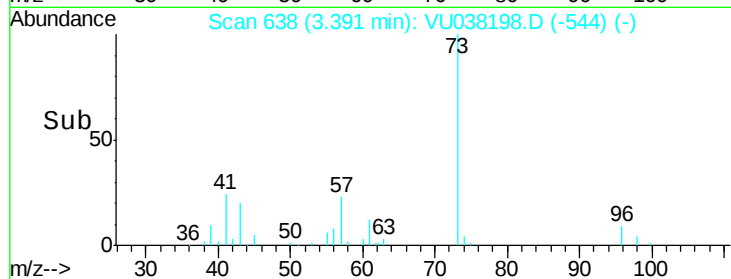
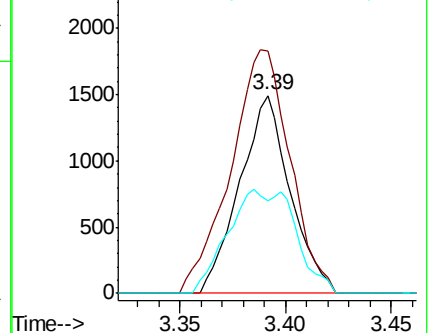
98 46.8 45.6 84.8



Abundance Ion 96.00 (95.70 to 96.70): VU038187.D (-621) (-)

Ion 61.05 (60.75 to 61.75): VU038187.D (-621) (-)

Ion 97.95 (97.65 to 98.65): VU038187.D (-621) (-)



#19

1,1-Dichloroethane

Concen: 0.130 ug/L

RT: 3.92 min Scan# 801

Delta R.T. 0.01 min

Lab File: VU038198.D

Acq: 15 May 2020 15:17

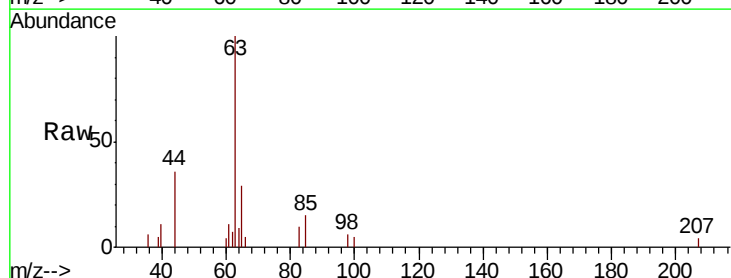
Tgt Ion: 63 Resp: 6373

Ion Ratio Lower Upper

63 100

65 28.7 22.5 41.7

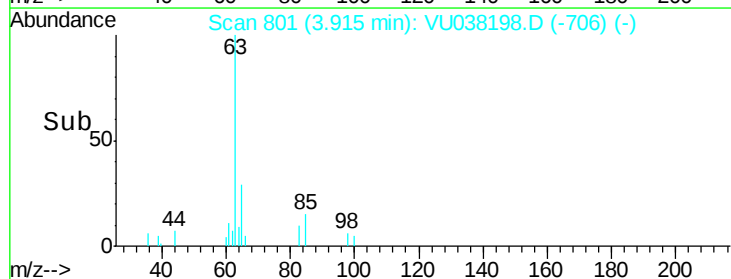
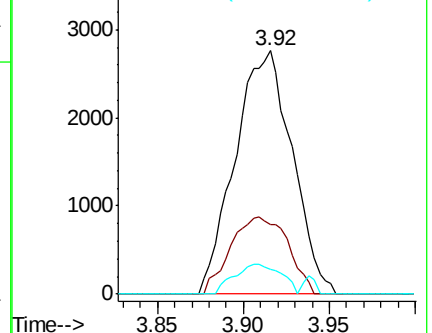
83 10.3 8.9 16.5

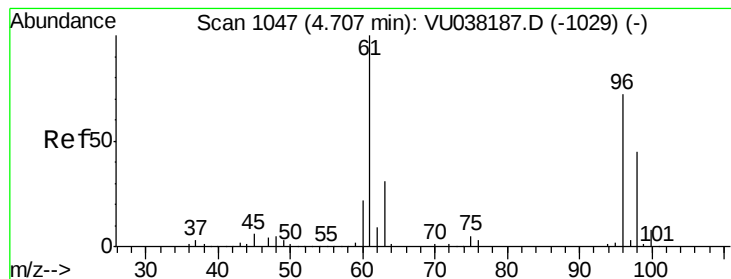


Abundance Ion 63.10 (62.80 to 63.80): VU038187.D (-780) (-)

Ion 65.10 (64.80 to 65.80): VU038187.D (-780) (-)

Ion 83.05 (82.75 to 83.75): VU038187.D (-780) (-)





#22

cis-1,2-Dichloroethene

Concen: 2.168 ug/L

RT: 4.71 min Scan# 1048

Delta R.T. 0.00 min

Lab File: VU038198.D

Acq: 15 May 2020 15:17

Instrument :
MSVOA_U
ClientSampleId :

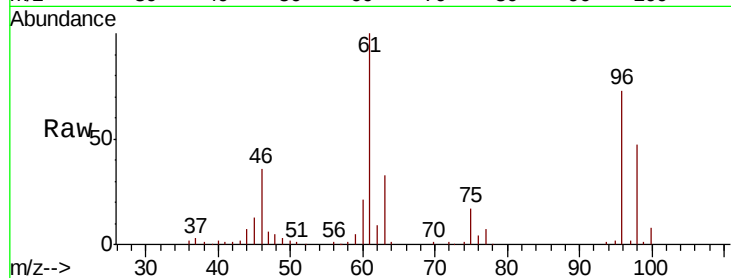
Tot Ion: 96 Resp: 58528

Ion Ratio Lower Upper

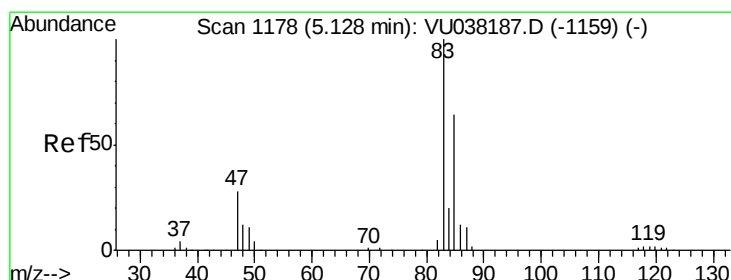
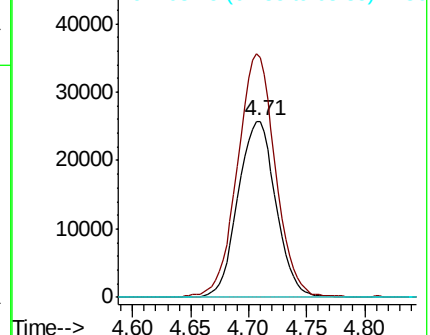
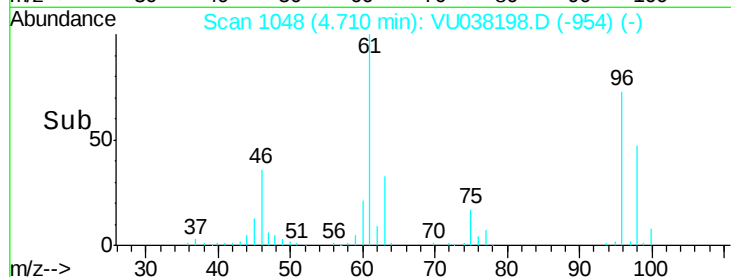
96 100

61 136.2 95.3 176.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU038198.D (-954) (-)



#25

Chloroform

Concen: 0.239 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VU038198.D

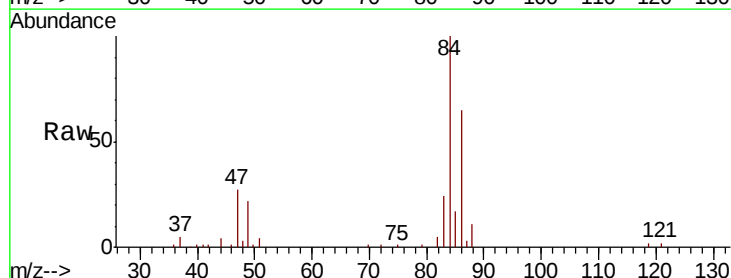
Acq: 15 May 2020 15:17

Tgt Ion: 83 Resp: 10905

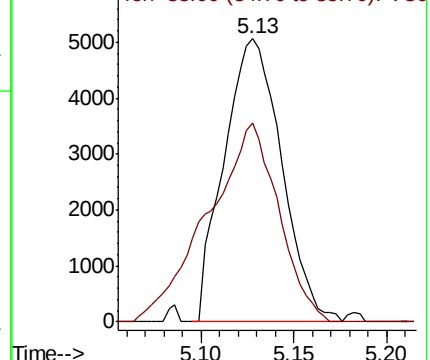
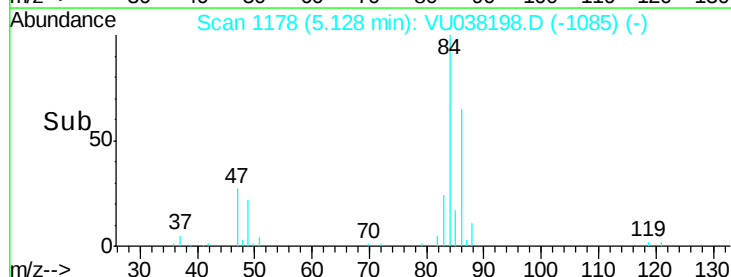
Ion Ratio Lower Upper

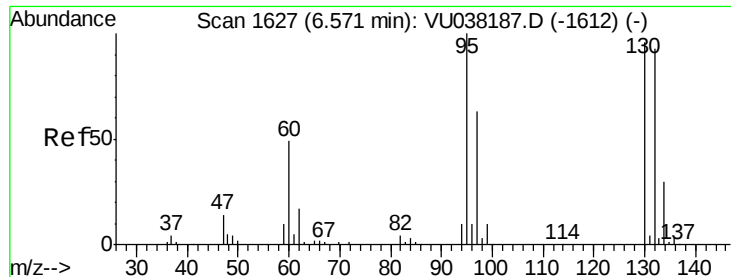
83 100

85 70.1 46.2 85.8



Abundance Ion 83.05 (82.75 to 83.75): VU038198.D (-1085) (-)

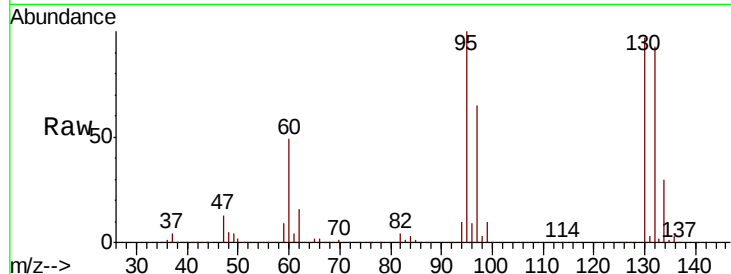




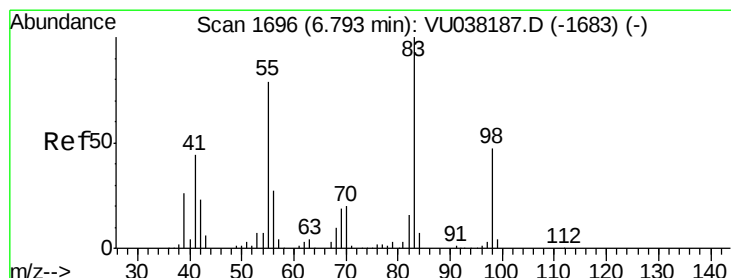
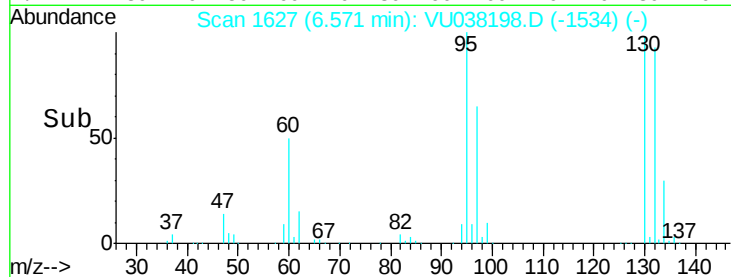
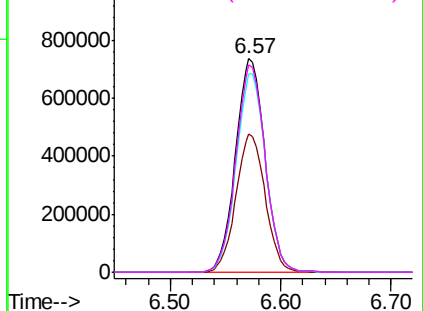
#34
 Trichloroethene
 Concen: 52.627 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. -0.00 min
 Lab File: VU038198.D
 Acq: 15 May 2020 15:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 1361779
 Ion Ratio Lower Upper
 95 100
 97 64.5 44.9 83.3
 132 92.7 63.3 117.5
 130 97.2 65.7 122.1

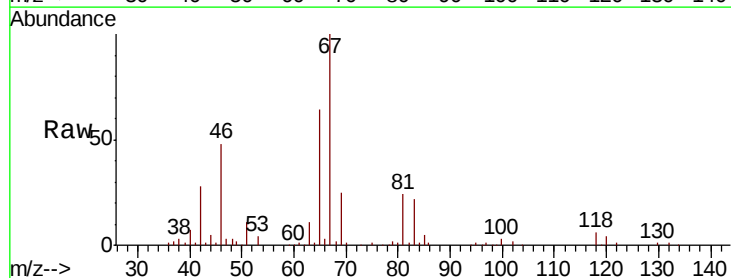


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

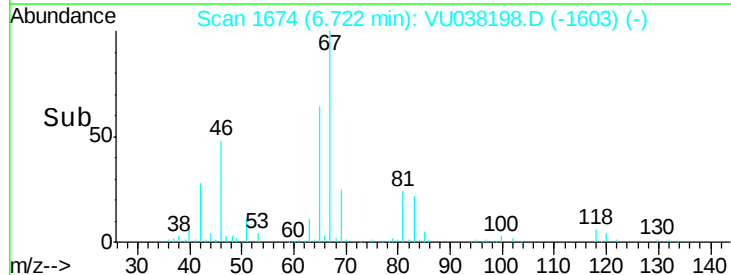
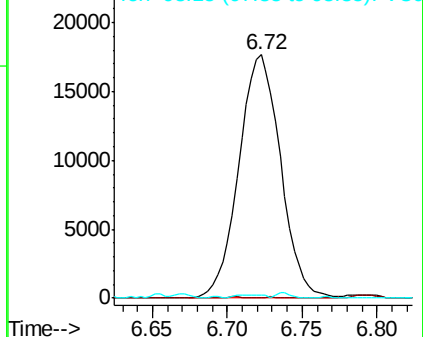


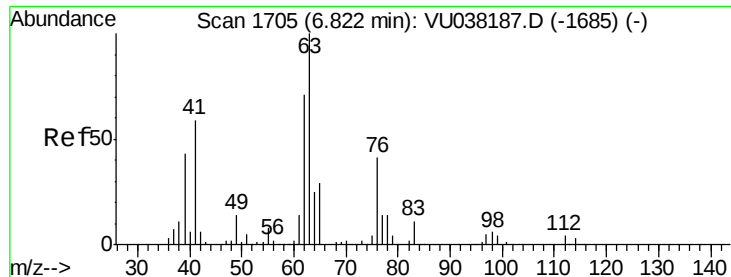
#35
 Methylcyclohexane
 Concen: 0.820 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: VU038198.D
 Acq: 15 May 2020 15:17

Tgt Ion: 83 Resp: 34374
 Ion Ratio Lower Upper
 83 100
 55 0.1 66.7 100.1#
 98 0.0 39.4 59.2#



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

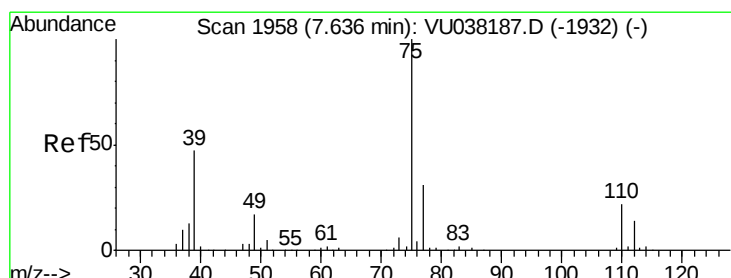
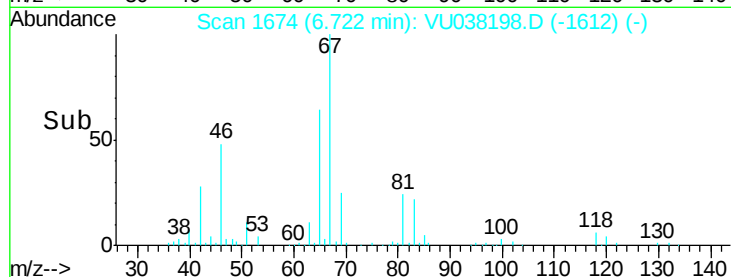
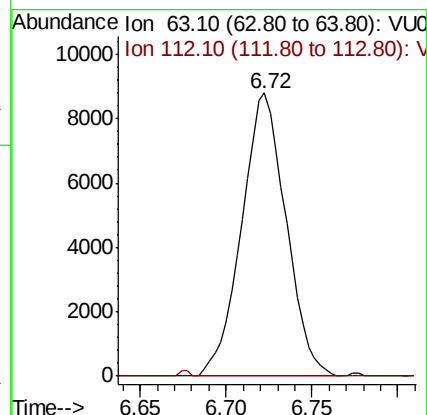
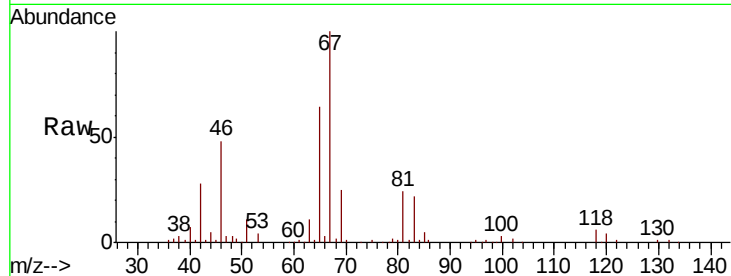




#37
 1,2-Dichloropropane
 Concen: 0.562 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.10 min
 Lab File: VU038198.D
 Acq: 15 May 2020 15:17

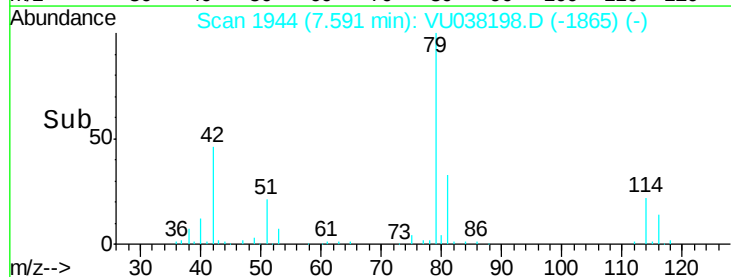
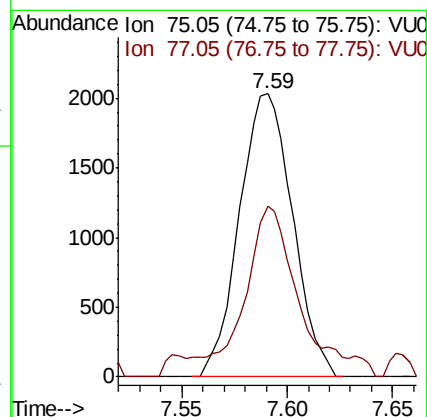
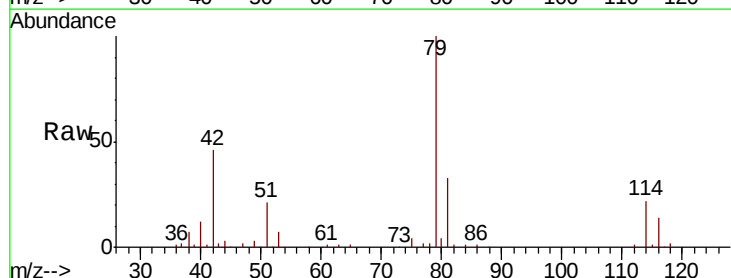
Instrument :
 MSVOA_U
 ClientSampleId :

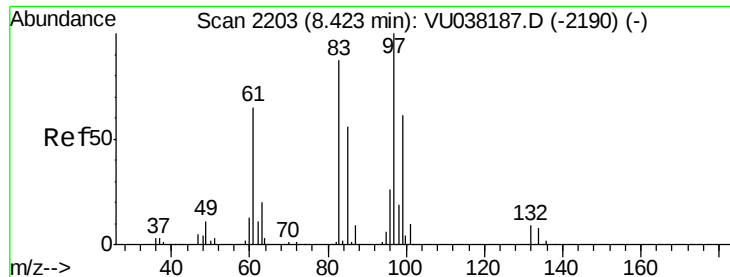
Tot Ion: 63 Resp: 15786
 Ion Ratio Lower Upper
 63 100
 112 0.4 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.089 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.05 min
 Lab File: VU038198.D
 Acq: 15 May 2020 15:17

Tgt Ion: 75 Resp: 3560
 Ion Ratio Lower Upper
 75 100
 77 60.1 22.4 41.6#





#45

1,1,2-Trichloroethane

Concen: 0.442 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. 0.15 min

Lab File: VU038198.D

Acq: 15 May 2020 15:17

Instrument :

MSVOA_U

ClientSampled :

Tot Ion: 97 Resp: 8635

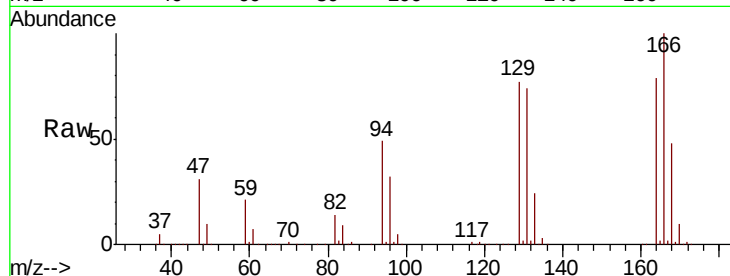
Ion Ratio Lower Upper

97 100

99 17.4 44.0 81.6#

83 304.5 59.6 110.8#

85 41.0 41.3 76.7#



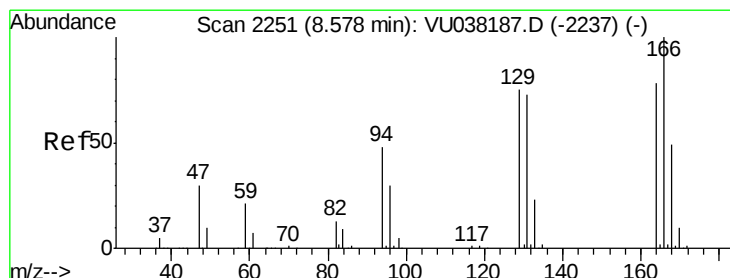
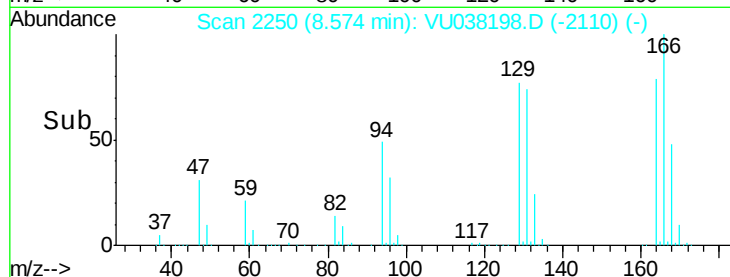
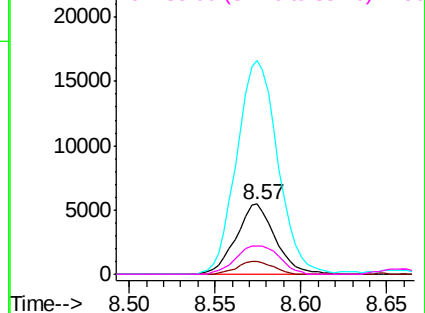
Abundance

Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 56.983 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU038198.D

Acq: 15 May 2020 15:17

Tgt Ion:164 Resp: 1031355

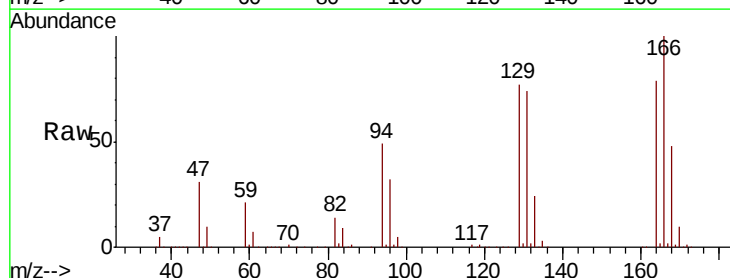
Ion Ratio Lower Upper

164 100

129 98.1 68.8 127.8

131 93.5 66.8 124.2

166 126.6 88.9 165.1



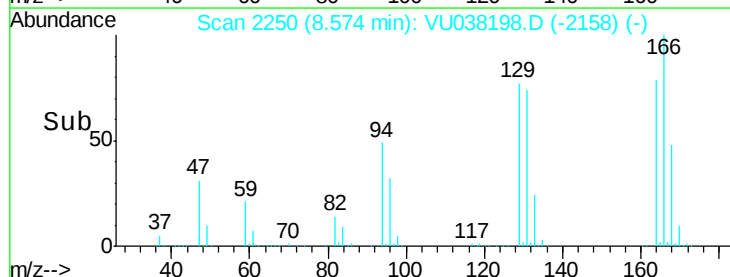
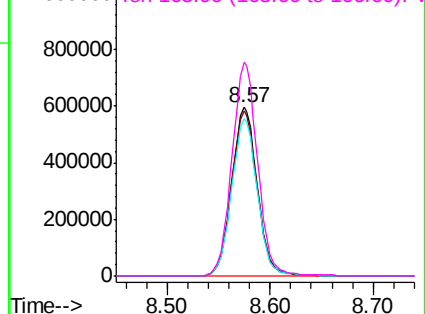
Abundance

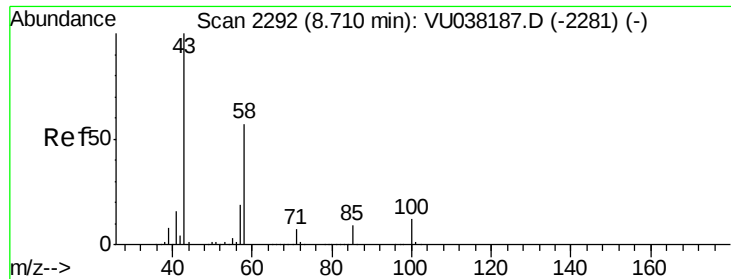
Ion 163.90 (163.60 to 164.60): V

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

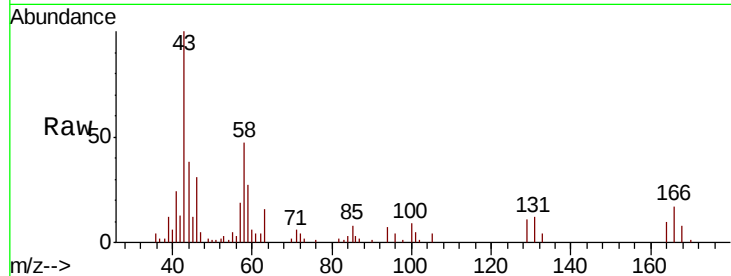




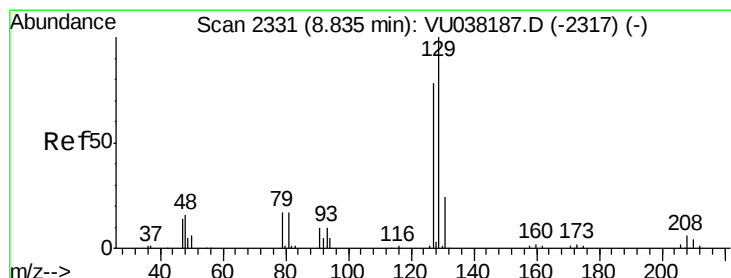
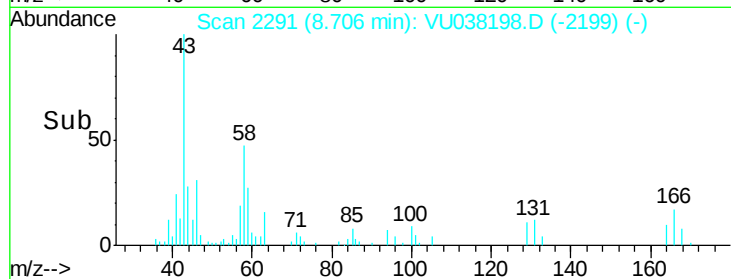
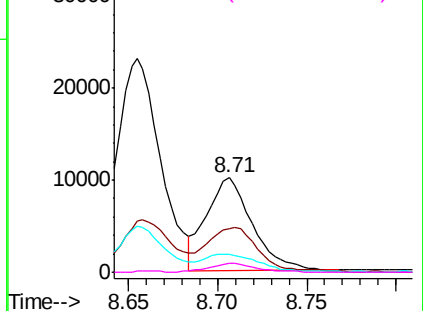
#48
2-Hexanone
Concen: 1.275 ug/L
RT: 8.71 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU038198.D
Acq: 15 May 2020 15:17

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 18192
Ion Ratio Lower Upper
43 100
58 54.6 45.2 67.8
57 20.0 15.5 23.3
100 9.8 9.5 14.3

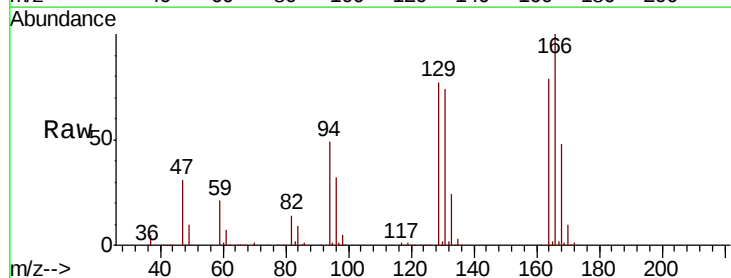


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

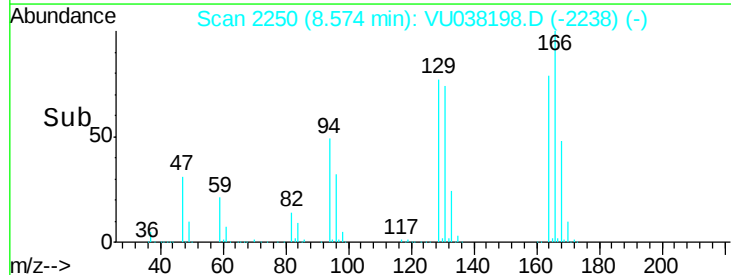
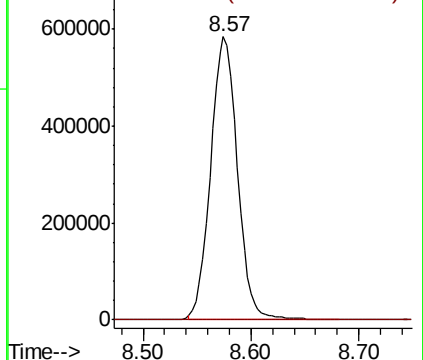


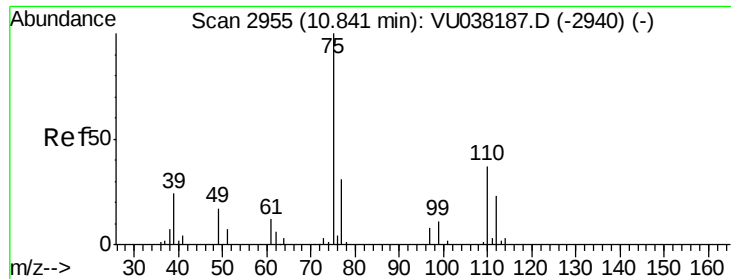
#49
Dibromochloromethane
Concen: 49.340 ug/L
RT: 8.57 min Scan# 2250
Delta R.T. -0.26 min
Lab File: VU038198.D
Acq: 15 May 2020 15:17

Tgt Ion: 129 Resp: 999256
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

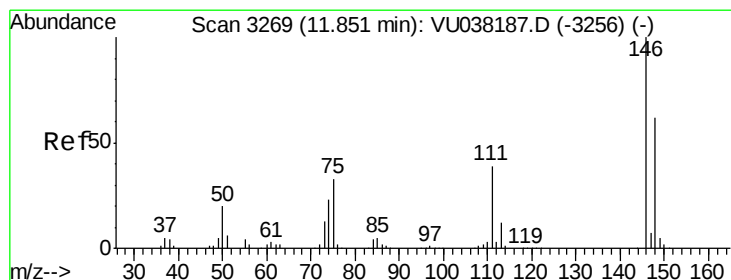
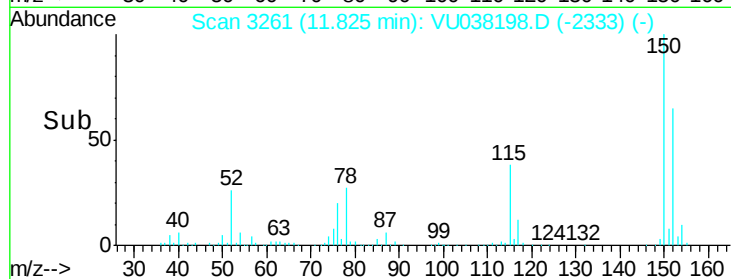
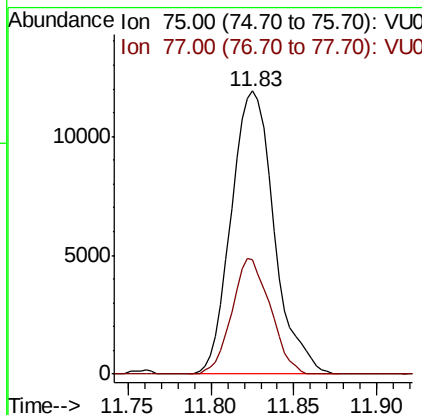
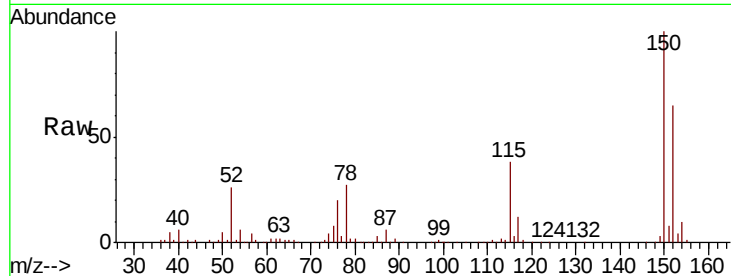




#59
 1,2,3-Trichloropropane
 Concen: 1.136 ug/L
 RT: 11.83 min Scan# 3261
 Delta R.T. 0.98 min
 Lab File: VU038198.D
 Acq: 15 May 2020 15:17

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 21433
 Ion Ratio Lower Upper
 75 100
 77 36.5 25.4 38.0



#63
 1,4-Dichlorobenzene
 Concen: 0.076 ug/L
 RT: 11.85 min Scan# 3268
 Delta R.T. -0.00 min
 Lab File: VU038198.D
 Acq: 15 May 2020 15:17

Tgt Ion: 146 Resp: 3816
 Ion Ratio Lower Upper
 146 100
 111 39.6 27.2 50.6
 148 58.6 43.8 81.3

