

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051520\
 Data File : VU038197.D
 Acq On : 15 May 2020 14:53
 Operator : JC/MD
 Sample : L2657-03
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 16 03:33:55 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	339914	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	332106	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	156978	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	111184	3.58	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.60%
7) Chloroethane-d5	1.93	69	111880	4.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.20%
11) 1,1-Dichloroethene-d2	2.59	63	157412	3.03	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.60%
20) 2-Butanone-d5	4.66	46	392766	51.20	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.40%
24) Chloroform-d	5.10	84	213865	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.60%
26) 1,2-Dichloroethane-d4	5.74	65	128259	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
32) Benzene-d6	5.76	84	450121	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
36) 1,2-Dichloropropane-d6	6.72	67	148765	4.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.60%
41) Toluene-d8	7.92	98	387872	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.80%
43) trans-1,3-Dichloropropene-	8.20	79	53040	4.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.40%
46) 2-Hexanone-d5	8.65	63	321113	52.85	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.70%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	118961	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
64) 1,2-Dichlorobenzene-d4	12.20	152	144673	4.74	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	64988	2.090	ug/L 99
9) Trichlorofluoromethane	2.16	101	875569	23.327	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	22033	0.947	ug/L 93
12) 1,1-Dichloroethene	2.61	96	16177	0.686	ug/L # 1
17) Methyl tert-butyl Ether	3.40	73	90579	1.382	ug/L 99
18) trans-1,2-Dichloroethene	3.39	96	22275	0.865	ug/L 97
19) 1,1-Dichloroethane	3.91	63	50223	0.998	ug/L 96
22) cis-1,2-Dichloroethene	4.71	96	56455	2.034	ug/L 99
25) Chloroform	5.13	83	16786	0.358	ug/L 96
29) 1,1,1-Trichloroethane	5.36	97	4790	0.126	ug/L # 79
34) Trichloroethene	6.57	95	534287	20.087	ug/L 97
35) Methylcyclohexane	6.72	83	33409	0.775	ug/L # 16
37) 1,2-Dichloropropane	6.72	63	15118	0.523	ug/L # 88
39) cis-1,3-Dichloropropene	7.59	75	3690	0.089	ug/L 89
47) Tetrachloroethene	8.57	164	470287	25.277	ug/L 99
48) 2-Hexanone	8.70	43	21316	1.454	ug/L 92
49) Dibromochloromethane	8.57	129	449032	21.569	ug/L # 10

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QLast Update : Sat May 16 03:30:00 2020
Response via : Initial Calibration

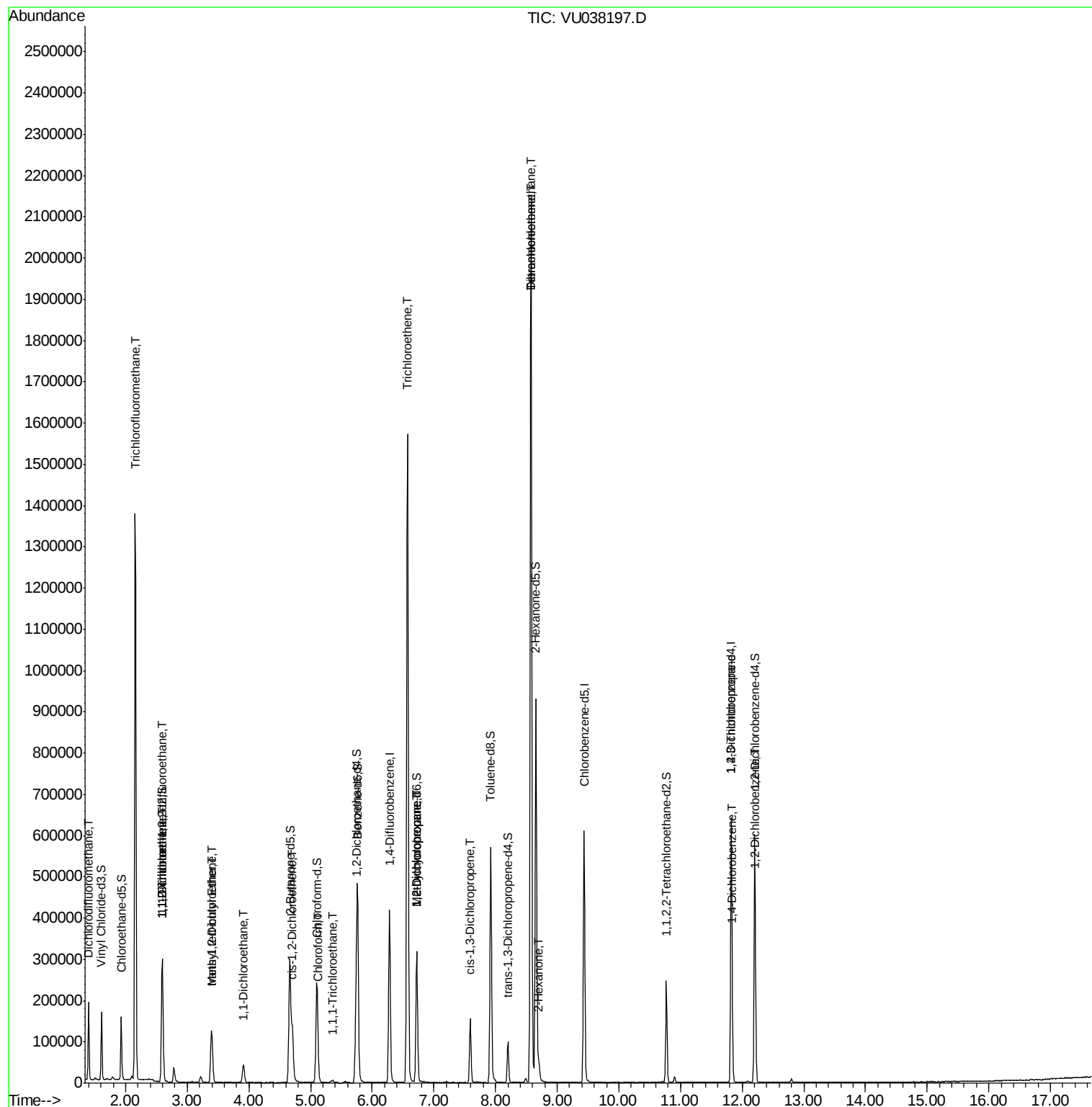
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
59) 1,2,3-Trichloropropane	11.83	75	26239	1.353	ug/L	96
63) 1,4-Dichlorobenzene	11.85	146	12616	0.244	ug/L	92
65) 1,2-Dichlorobenzene	12.22	146	9255	0.188	ug/L	95

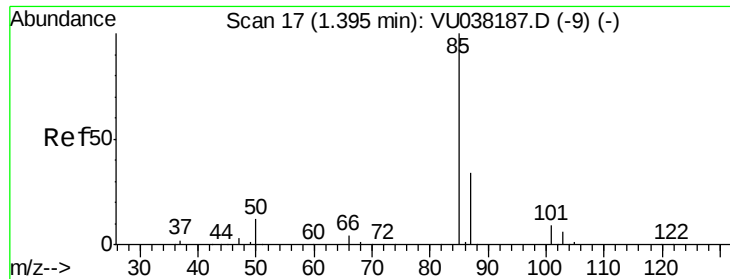
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.090 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038197.D

Acq: 15 May 2020 14:53

Instrument :

MSVOA_U

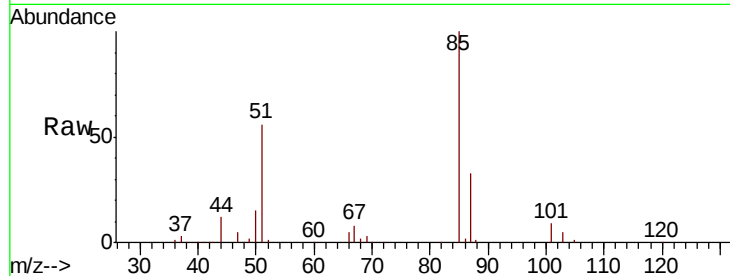
ClientSampleId :

Tot Ion: 85 Resp: 64988

Ion Ratio Lower Upper

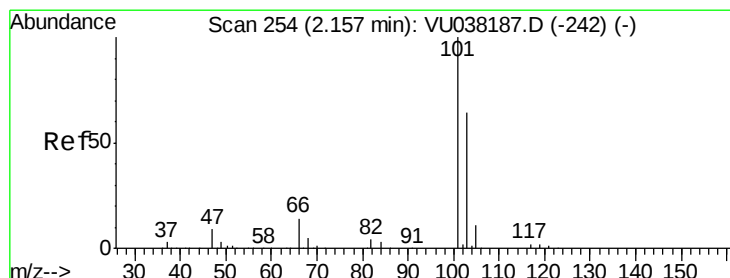
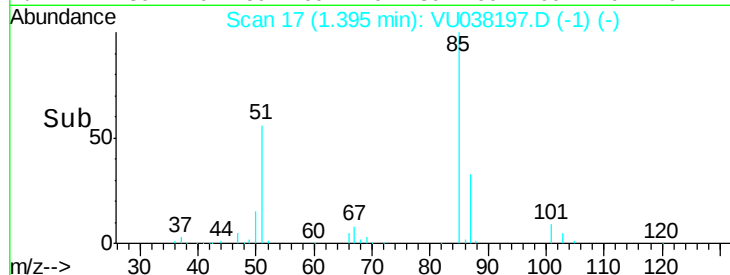
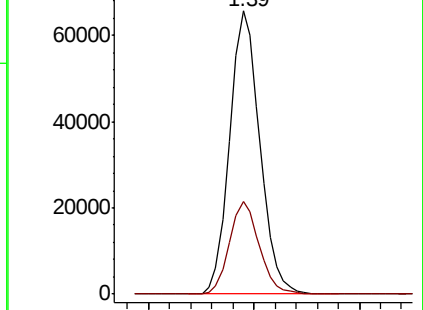
85 100

87 32.2 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU038187.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU038187.D (-9) (-)



#9

Trichlorofluoromethane

Concen: 23.327 ug/L

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU038197.D

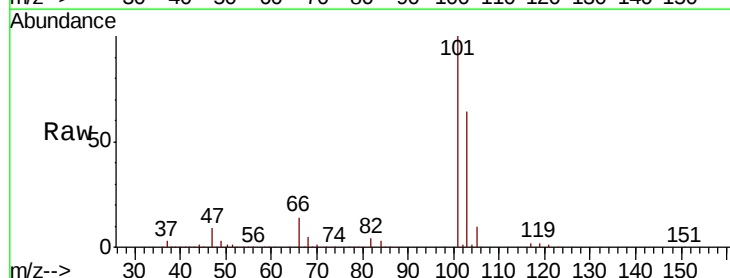
Acq: 15 May 2020 14:53

Tgt Ion: 101 Resp: 875569

Ion Ratio Lower Upper

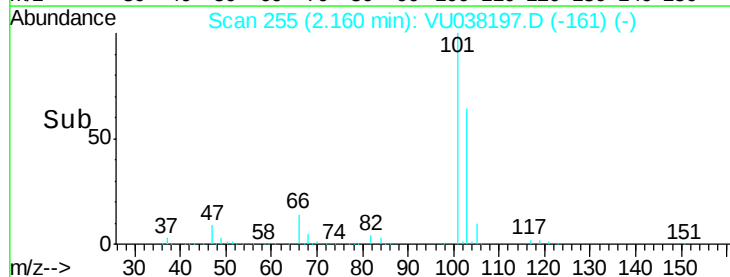
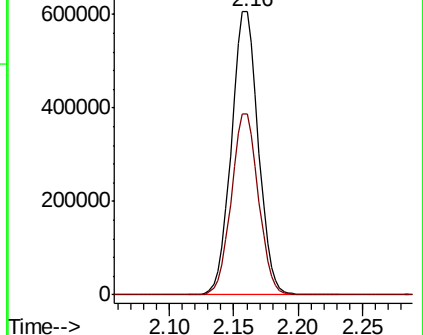
101 100

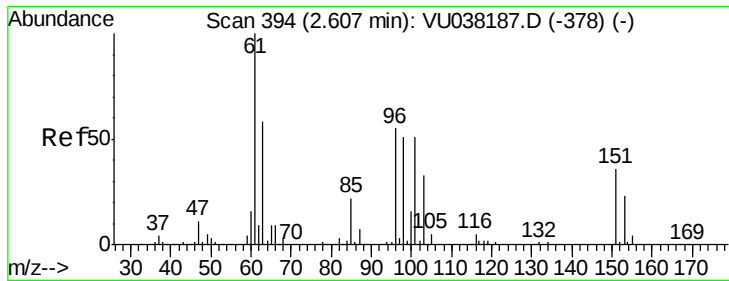
103 64.5 51.0 76.4



Abundance Ion 101.00 (100.70 to 101.70): VU038187.D (-242) (-)

Ion 103.00 (102.70 to 103.70): VU038187.D (-242) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.947 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038197.D

Acq: 15 May 2020 14:53

Instrument :

MSVOA_U

ClientSampled :

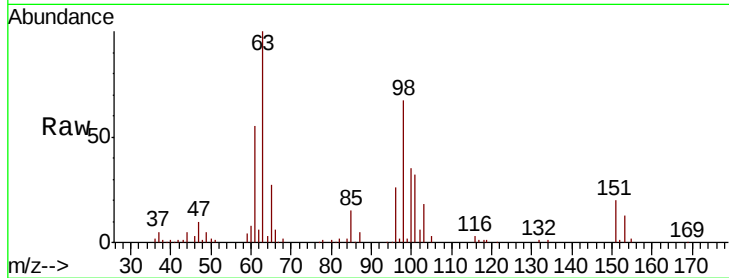
Tot Ion:101 Resp: 22033

Ion Ratio Lower Upper

101 100

85 45.4 35.3 52.9

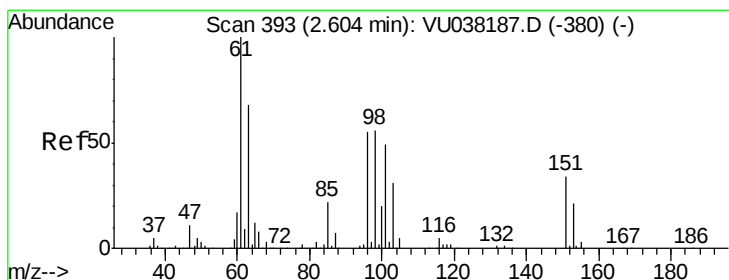
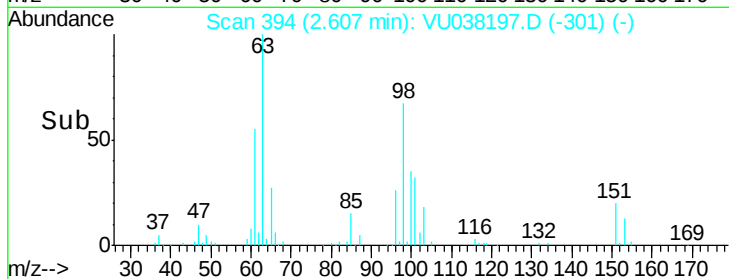
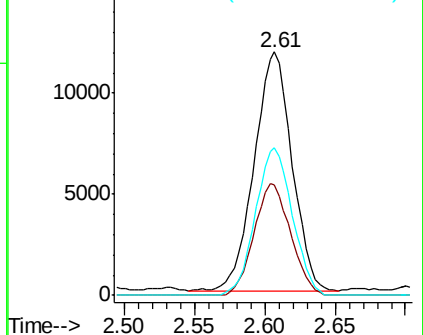
151 60.0 54.2 81.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.686 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU038197.D

Acq: 15 May 2020 14:53

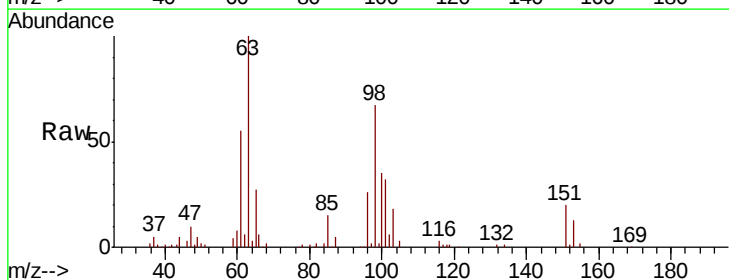
Tgt Ion: 96 Resp: 16177

Ion Ratio Lower Upper

96 100

61 211.1 126.2 234.4

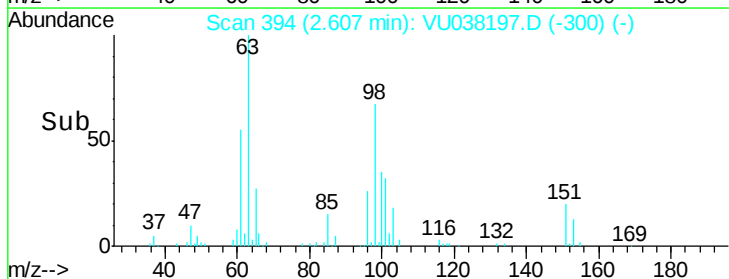
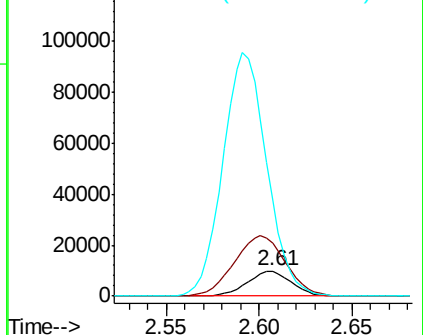
63 381.3 96.9 179.9#

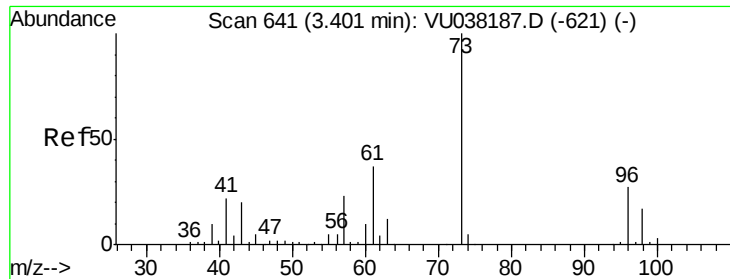


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

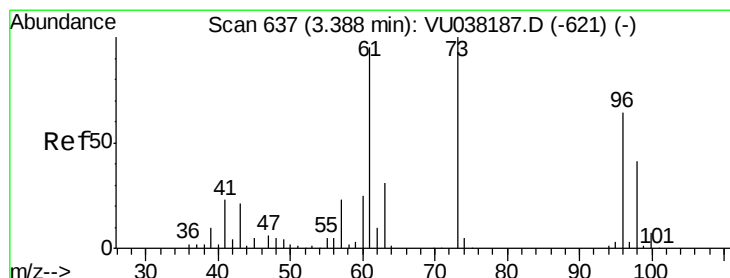
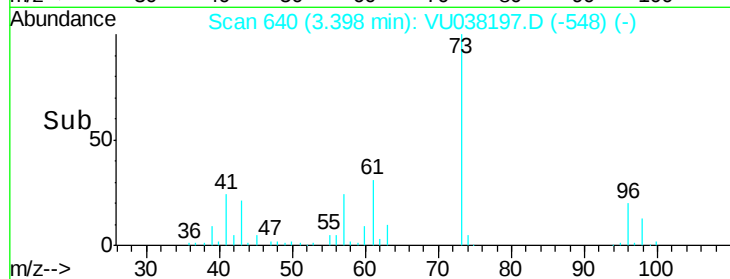
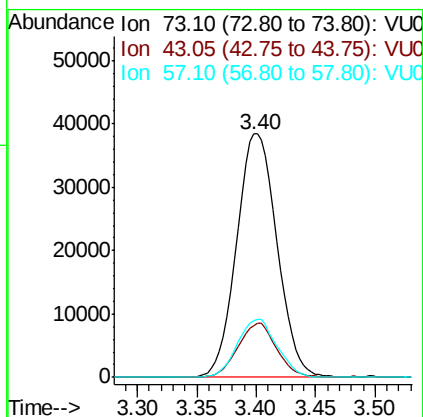
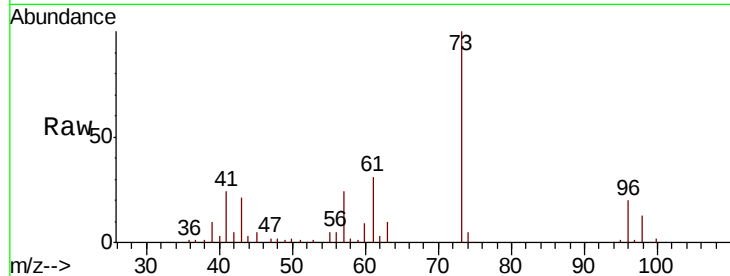




#17
Methvl tert-butvl Ether
Concen: 1.382 ug/L
RT: 3.40 min Scan# 640
Delta R.T. -0.00 min
Lab File: VU038197.D
Acq: 15 May 2020 14:53

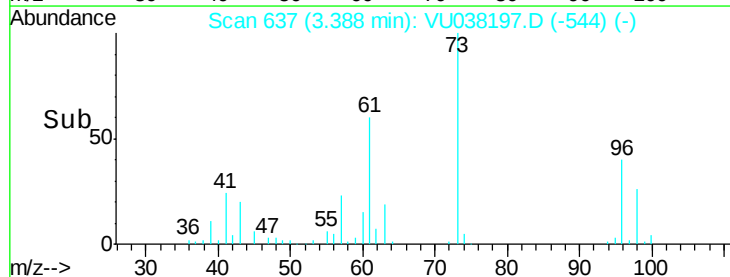
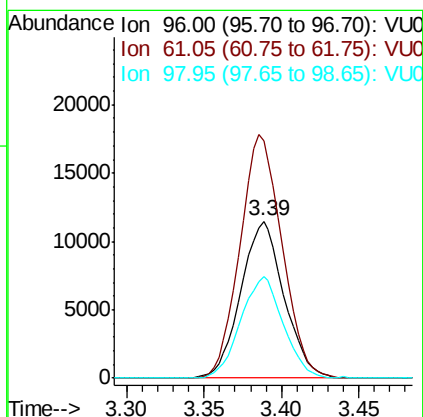
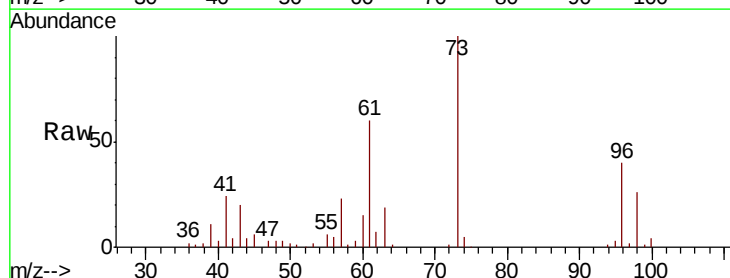
Instrument :
MSVOA_U
ClientSampleId :

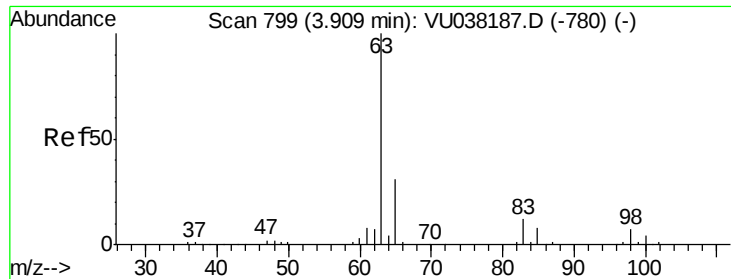
Tot Ion: 73 Resp: 90579
Ion Ratio Lower Upper
73 100
43 21.3 16.9 25.3
57 23.3 18.2 27.2



#18
trans-1,2-Dichloroethene
Concen: 0.865 ug/L
RT: 3.39 min Scan# 637
Delta R.T. 0.00 min
Lab File: VU038197.D
Acq: 15 May 2020 14:53

Tgt Ion: 96 Resp: 22275
Ion Ratio Lower Upper
96 100
61 151.1 102.1 189.5
98 65.0 45.6 84.8

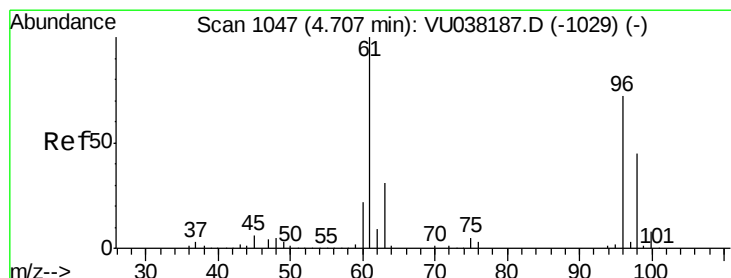
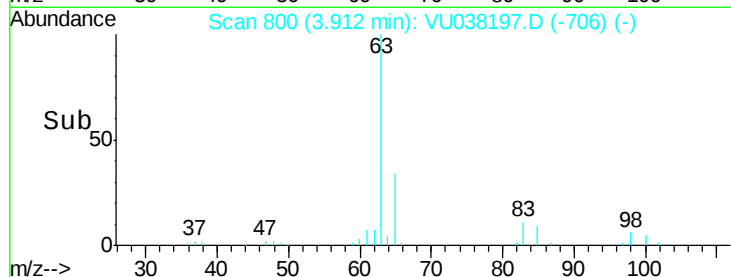
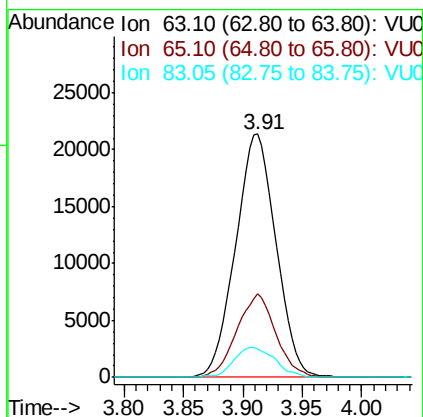
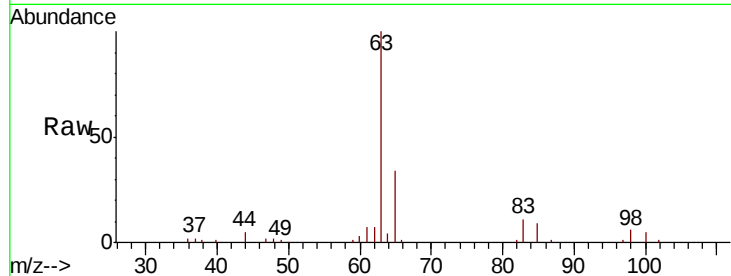




#19
 1,1-Dichloroethane
 Concen: 0.998 ug/L
 RT: 3.91 min Scan# 800
 Delta R.T. 0.00 min
 Lab File: VU038197.D
 Acq: 15 May 2020 14:53

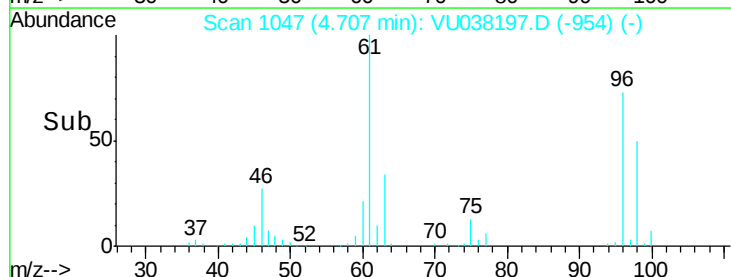
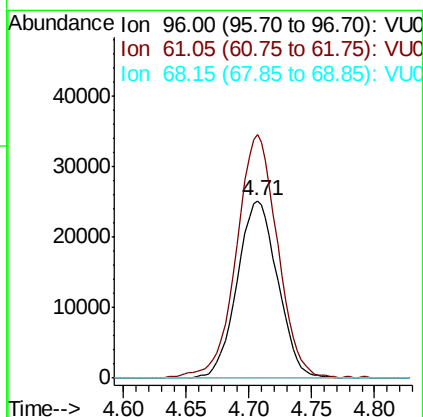
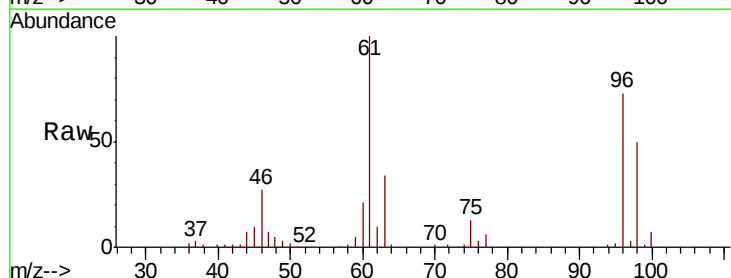
Instrument :
 MSVOA_U
 ClientSampled :

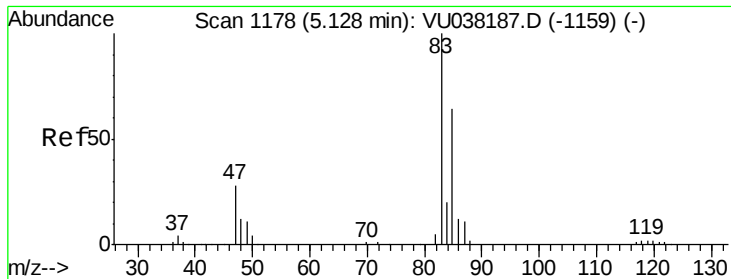
Tot Ion: 63 Resp: 50223
 Ion Ratio Lower Upper
 63 100
 65 34.3 22.5 41.7
 83 11.5 8.9 16.5



#22
 cis-1,2-Dichloroethene
 Concen: 2.034 ug/L
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU038197.D
 Acq: 15 May 2020 14:53

Tgt Ion: 96 Resp: 56455
 Ion Ratio Lower Upper
 96 100
 61 137.0 95.3 176.9
 68 0.0 0.0 0.0

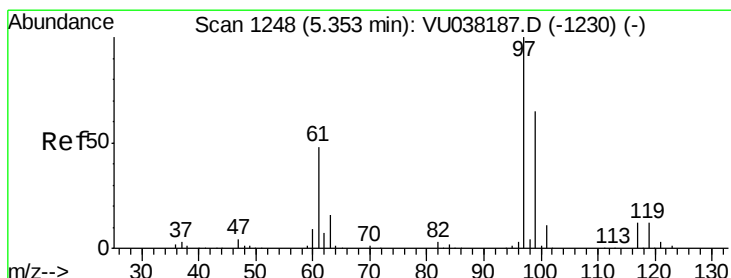
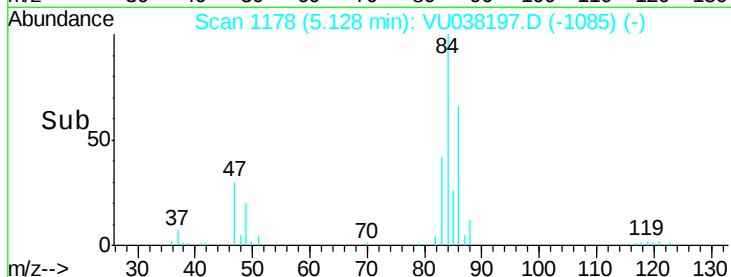
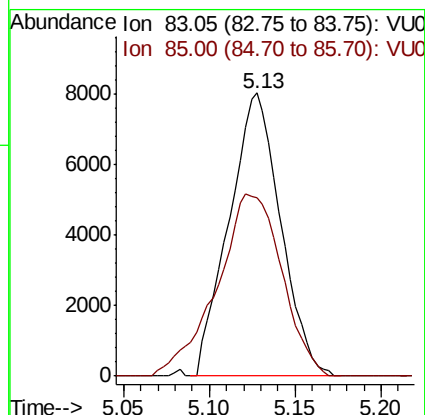
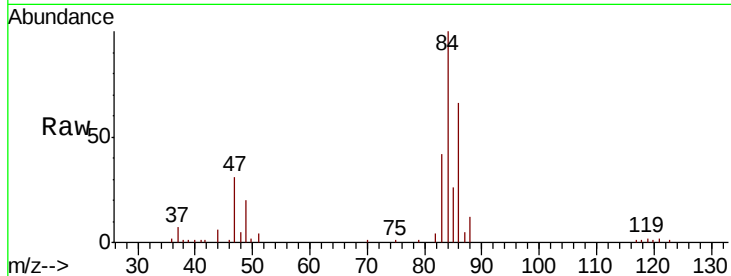




#25
Chloroform
Concen: 0.358 ug/L
RT: 5.13 min Scan# 1178
Delta R.T. 0.00 min
Lab File: VU038197.D
Acq: 15 May 2020 14:53

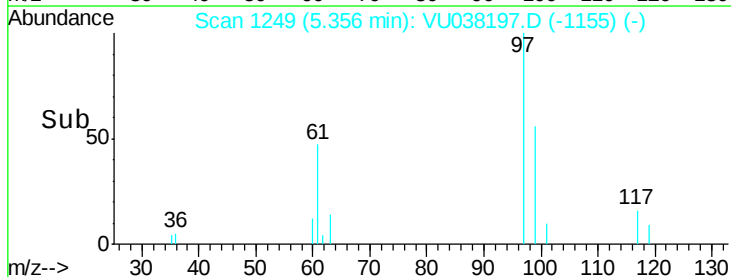
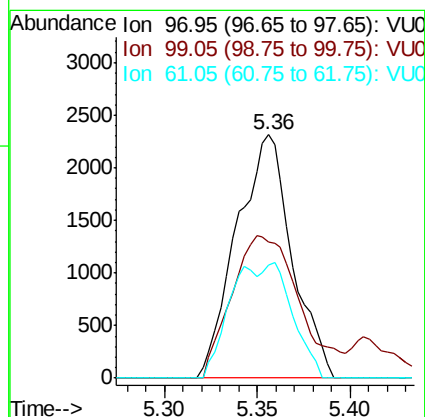
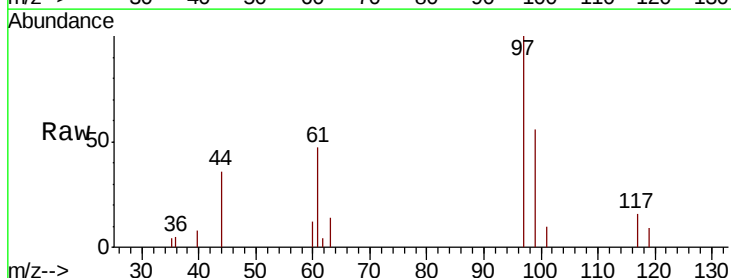
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ClientSampled :

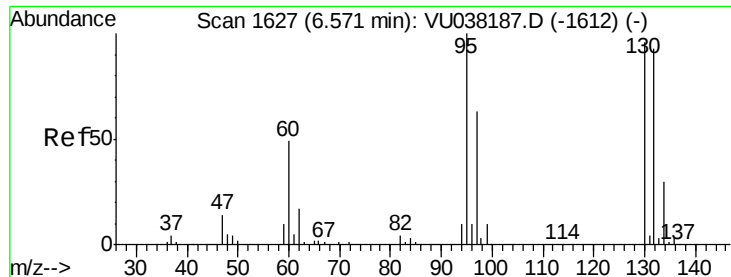
Tot Ion: 83 Resp: 16786
Ion Ratio Lower Upper
83 100
85 62.9 46.2 85.8



#29
1,1,1-Trichloroethane
Concen: 0.126 ug/L
RT: 5.36 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VU038197.D
Acq: 15 May 2020 14:53

Tgt Ion: 97 Resp: 4790
Ion Ratio Lower Upper
97 100
99 72.5 51.0 76.4
61 25.5 38.2 57.4#

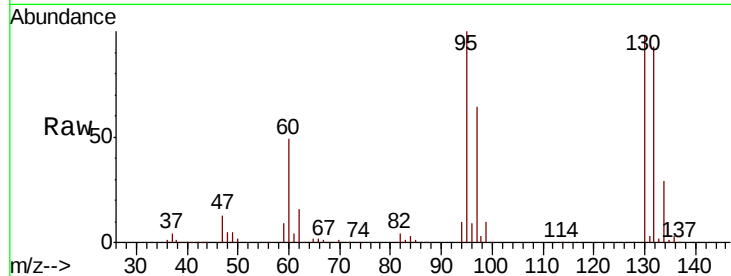




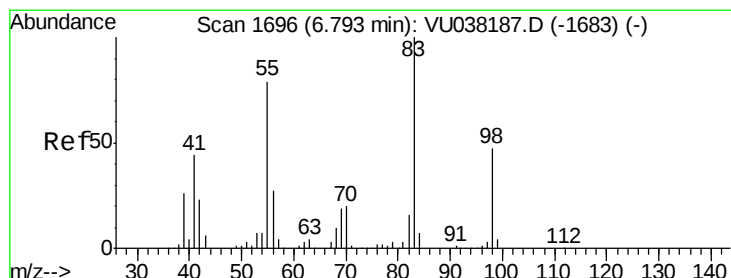
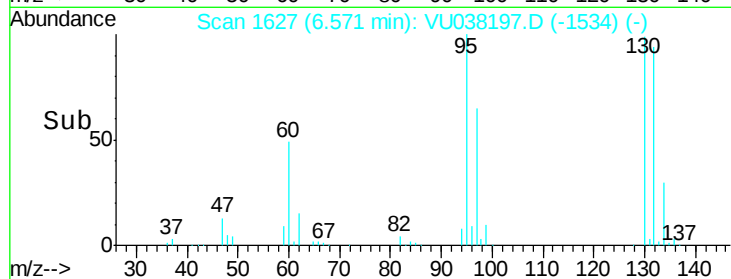
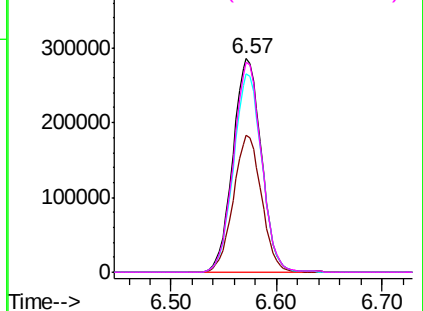
#34
 Trichloroethene
 Concen: 20.087 ug/L
 RT: 6.57 min Scan# 1627
 Delta R.T. 0.00 min
 Lab File: VU038197.D
 Acq: 15 May 2020 14:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 534287
 Ion Ratio Lower Upper
 95 100
 97 64.0 44.9 83.3
 132 92.9 63.3 117.5
 130 98.1 65.7 122.1

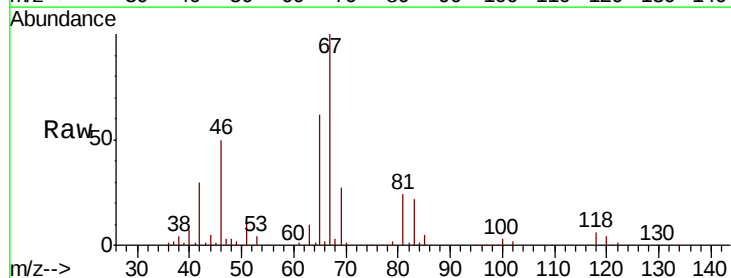


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

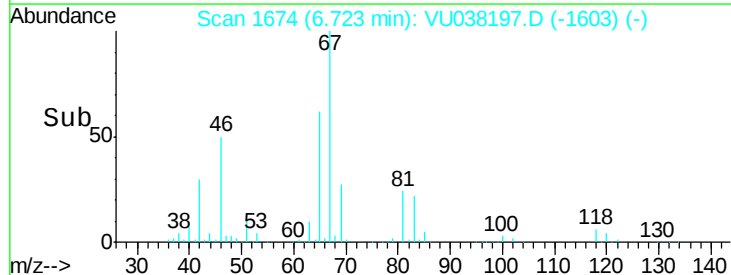
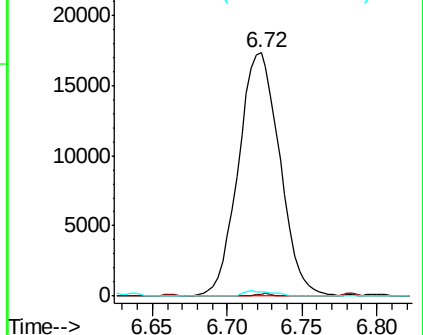


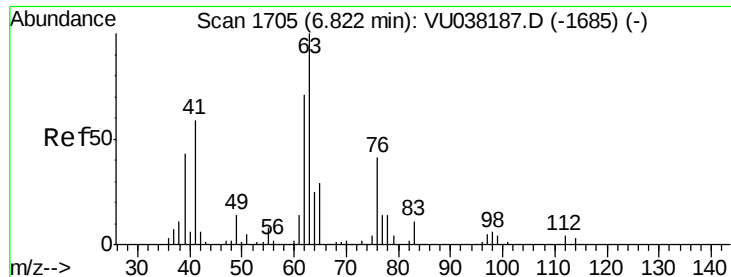
#35
 Methylcyclohexane
 Concen: 0.775 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.07 min
 Lab File: VU038197.D
 Acq: 15 May 2020 14:53

Tgt Ion: 83 Resp: 33409
 Ion Ratio Lower Upper
 83 100
 55 0.3 66.7 100.1#
 98 1.5 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

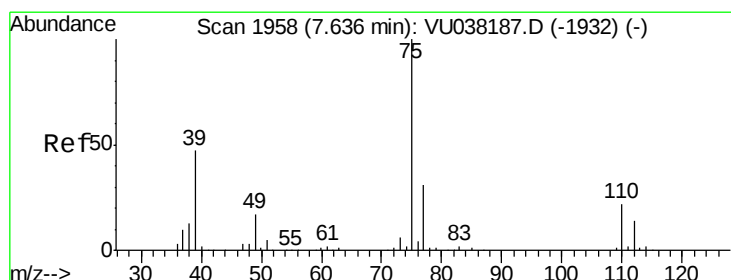
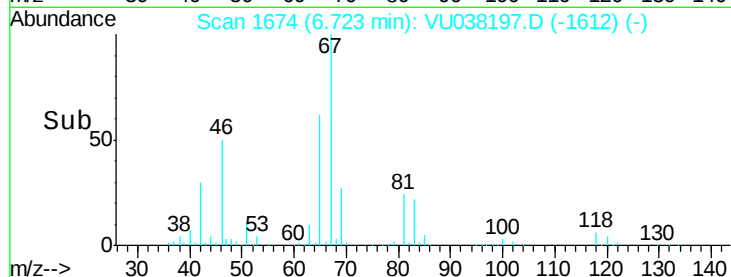
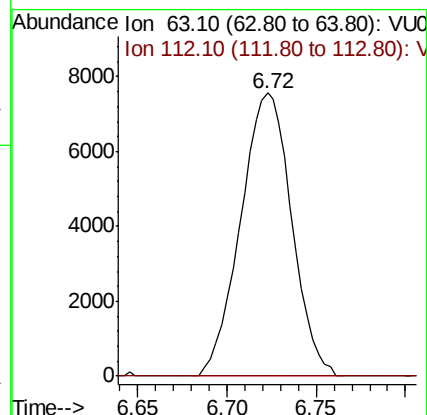
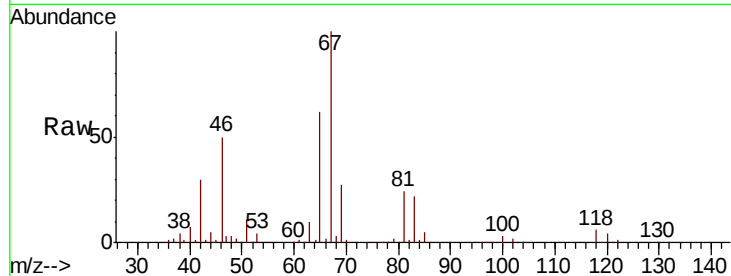




#37
 1,2-Dichloropropane
 Concen: 0.523 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.10 min
 Lab File: VU038197.D
 Acq: 15 May 2020 14:53

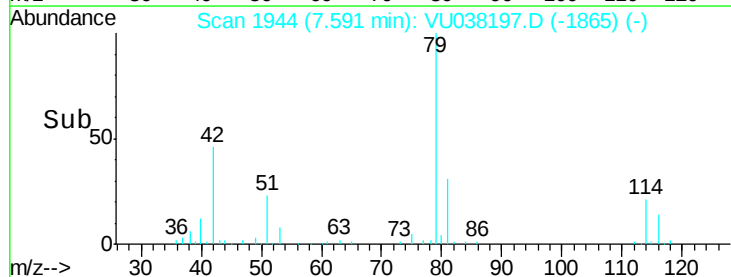
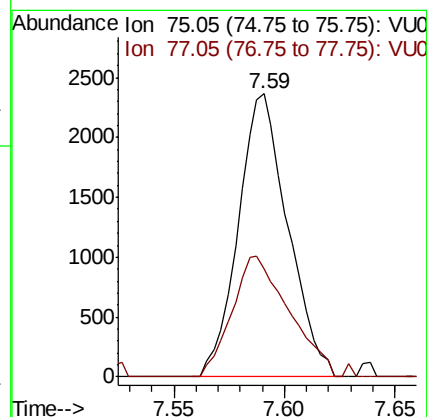
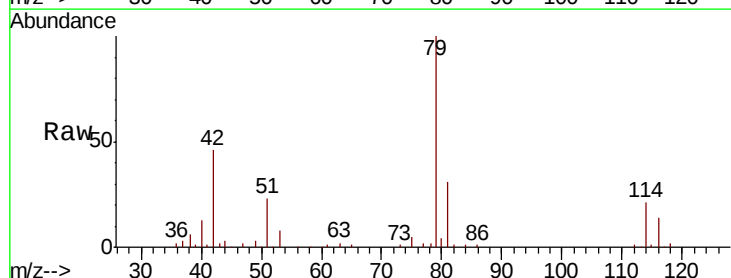
Instrument :
 MSVOA_U
 ClientSampleId :

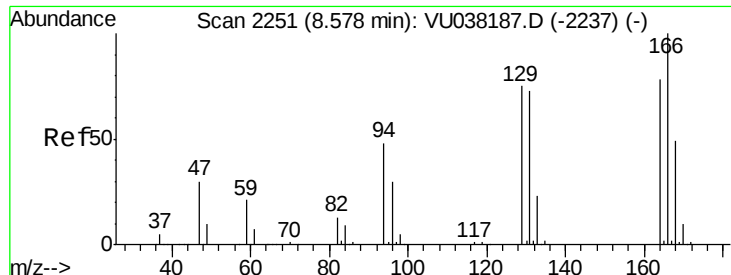
Tot Ion: 63 Resp: 15118
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.089 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU038197.D
 Acq: 15 May 2020 14:53

Tgt Ion: 75 Resp: 3690
 Ion Ratio Lower Upper
 75 100
 77 38.3 22.4 41.6





#47

Tetrachloroethene

Concen: 25.277 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU038197.D

Acq: 15 May 2020 14:53

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 470287

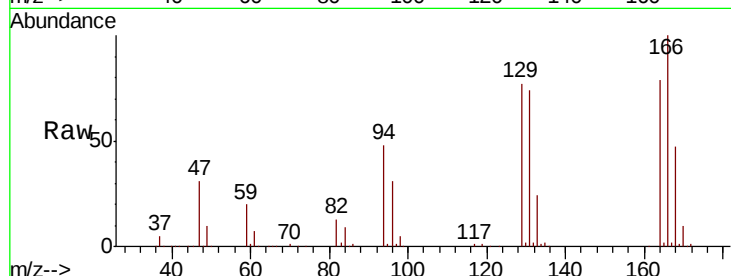
Ion Ratio Lower Upper

164 100

129 98.1 68.8 127.8

131 93.8 66.8 124.2

166 127.3 88.9 165.1

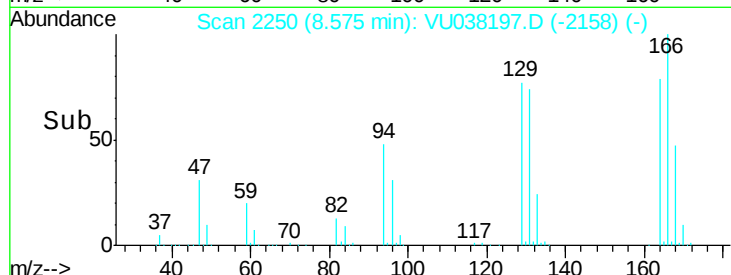


Abundance Ion 163.90 (163.60 to 164.60): V

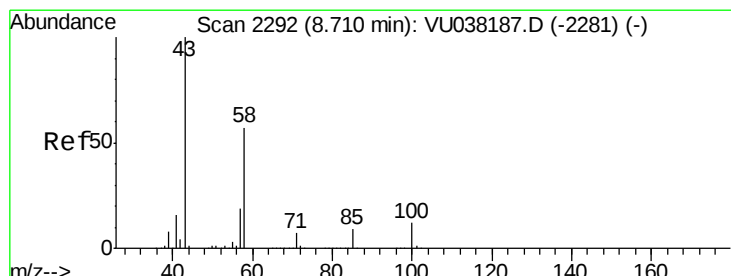
Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



Time-->



#48

2-Hexanone

Concen: 1.454 ug/L

RT: 8.70 min Scan# 2290

Delta R.T. -0.01 min

Lab File: VU038197.D

Acq: 15 May 2020 14:53

Tgt Ion: 43 Resp: 21316

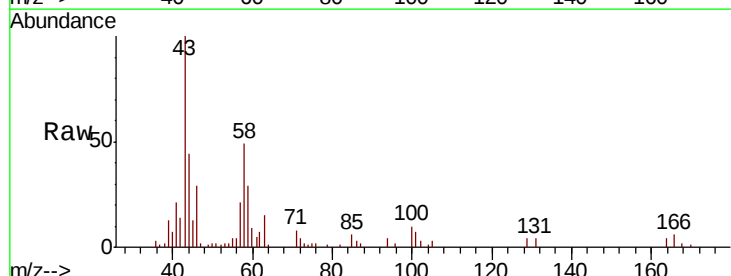
Ion Ratio Lower Upper

43 100

58 48.4 45.2 67.8

57 21.0 15.5 23.3

100 10.6 9.5 14.3

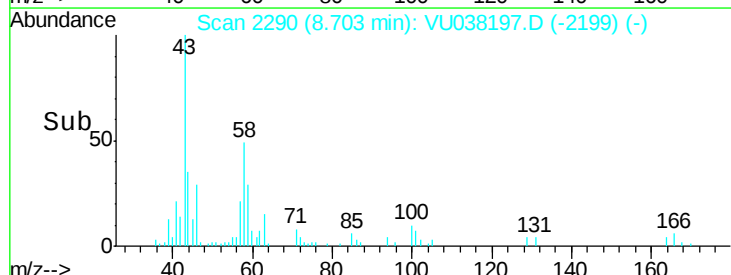


Abundance Ion 43.05 (42.75 to 43.75): VU0

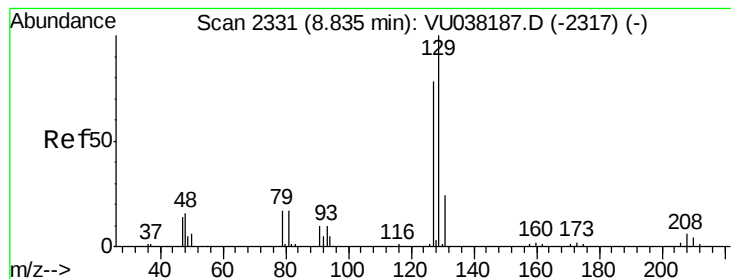
Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0



Time-->



#49

Dibromochloromethane

Concen: 21.569 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.26 min

Lab File: VU038197.D

Acq: 15 May 2020 14:53

Instrument :

MSVOA_U

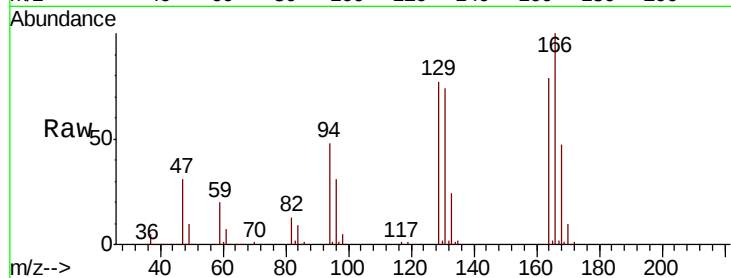
ClientSampleId :

Tot Ion:129 Resp: 449032

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

8.57

300000

250000

200000

150000

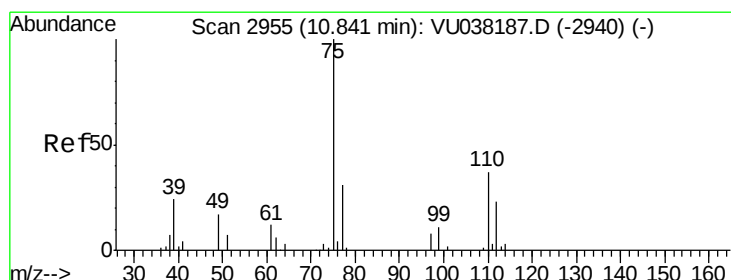
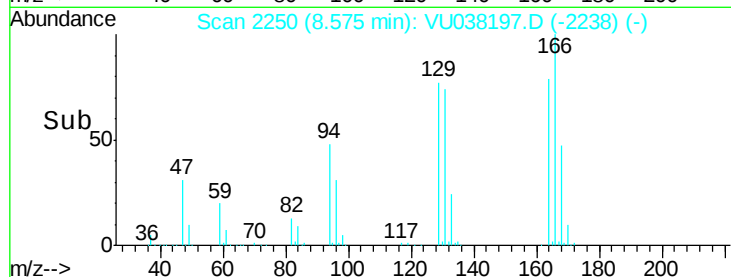
100000

50000

0

Time-->

8.50 8.55 8.60 8.65 8.70



#59

1,2,3-Trichloropropane

Concen: 1.353 ug/L

RT: 11.83 min Scan# 3261

Delta R.T. 0.98 min

Lab File: VU038197.D

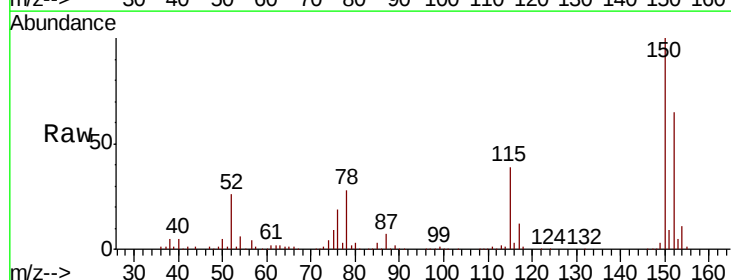
Acq: 15 May 2020 14:53

Tgt Ion: 75 Resp: 26239

Ion Ratio Lower Upper

75 100

77 29.6 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.83

15000

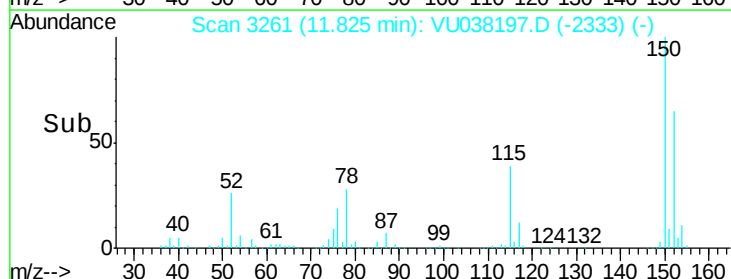
10000

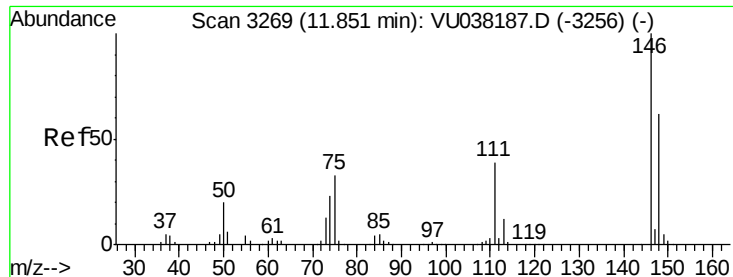
5000

0

Time-->

11.75 11.80 11.85 11.90





#63

1,4-Dichlorobenzene

Concen: 0.244 ug/L

RT: 11.85 min Scan# 3268

Delta R.T. -0.00 min

Lab File: VU038197.D

Acq: 15 May 2020 14:53

Instrument :

MSVOA_U

ClientSampleId :

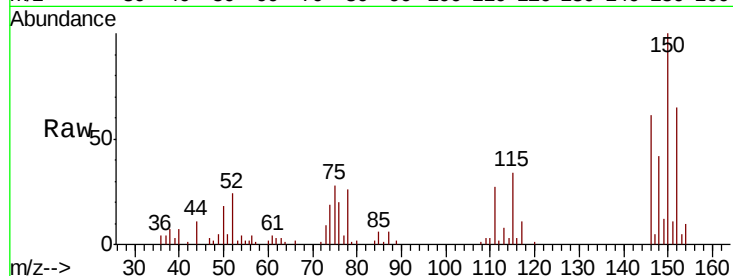
Tot Ion:146 Resp: 12616

Ion Ratio Lower Upper

146 100

111 44.1 27.2 50.6

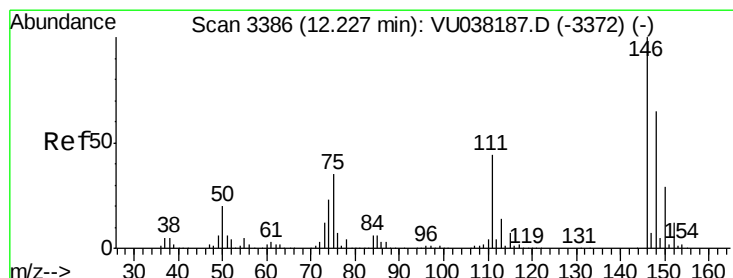
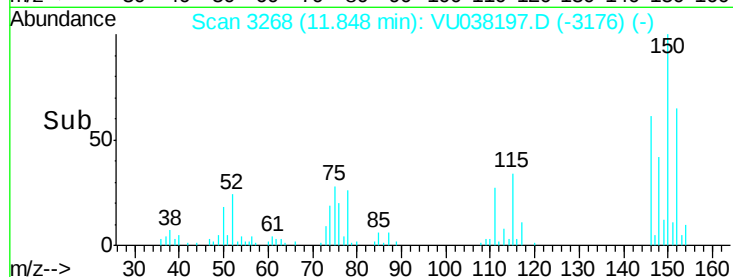
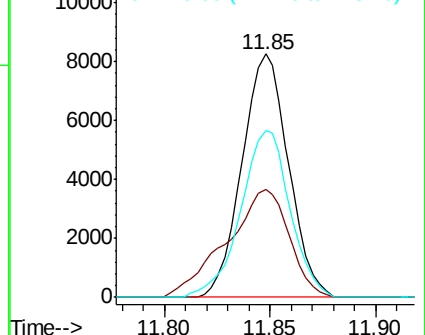
148 68.3 43.8 81.3



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.188 ug/L

RT: 12.22 min Scan# 3385

Delta R.T. -0.00 min

Lab File: VU038197.D

Acq: 15 May 2020 14:53

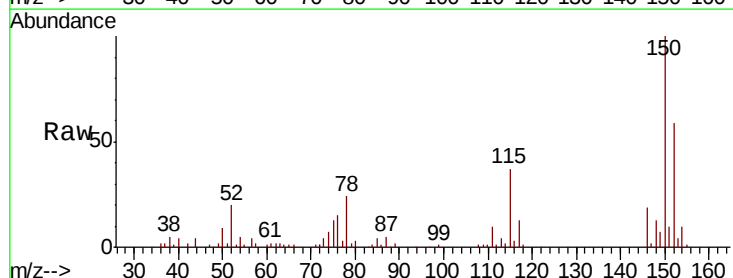
Tgt Ion:146 Resp: 9255

Ion Ratio Lower Upper

146 100

111 50.0 35.3 52.9

148 65.7 51.0 76.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

