

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051520\
 Data File : VU038202.D
 Acq On : 15 May 2020 16:49
 Operator : JC/MD
 Sample : L2657-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: May 16 03:35:22 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	344729	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.44	117	336453	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	157460	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	114309	3.63	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.60%
7) Chloroethane-d5	1.93	69	113419	4.16	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.20%
11) 1,1-Dichloroethene-d2	2.59	63	156094	2.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.20%#
20) 2-Butanone-d5	4.67	46	414465	53.27	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.54%
24) Chloroform-d	5.10	84	220087	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.74	65	130854	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
32) Benzene-d6	5.76	84	451697	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.60%
36) 1,2-Dichloropropane-d6	6.72	67	153472	4.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.40%
41) Toluene-d8	7.92	98	395792	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
43) trans-1,3-Dichloropropene-	8.20	79	53965	4.14	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.80%
46) 2-Hexanone-d5	8.65	63	330334	53.67	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.34%
57) 1,1,2,2-Tetrachloroethane-	10.77	84	120387	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.80%
64) 1,2-Dichlorobenzene-d4	12.20	152	146890	4.79	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	8164	0.259 ug/L	97
9) Trichlorofluoromethane	2.16	101	12540	0.329 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	5257	0.223 ug/L #	78
12) 1,1-Dichloroethene	2.60	96	7927	0.331 ug/L #	1
15) Methyl Acetate	2.83	43	8367	0.613 ug/L #	53
17) Methyl tert-butyl Ether	3.40	73	10394	0.156 ug/L #	89
18) trans-1,2-Dichloroethene	3.39	96	4560	0.175 ug/L	98
22) cis-1,2-Dichloroethene	4.71	96	268098	9.525 ug/L	99
25) Chloroform	5.13	83	15505	0.326 ug/L	97
31) Carbon tetrachloride	5.56	117	13790	0.445 ug/L	92
34) Trichloroethene	6.57	95	1969979	73.105 ug/L	98
35) Methylcyclohexane	6.72	83	33817	0.775 ug/L #	16
37) 1,2-Dichloropropane	6.72	63	16598	0.567 ug/L #	88
39) cis-1,3-Dichloropropene	7.59	75	3846	0.092 ug/L #	80
47) Tetrachloroethene	8.57	164	936333	49.676 ug/L	99
48) 2-Hexanone	8.71	43	24713	1.664 ug/L	91
49) Dibromochloromethane	8.57	129	898858	42.618 ug/L #	10

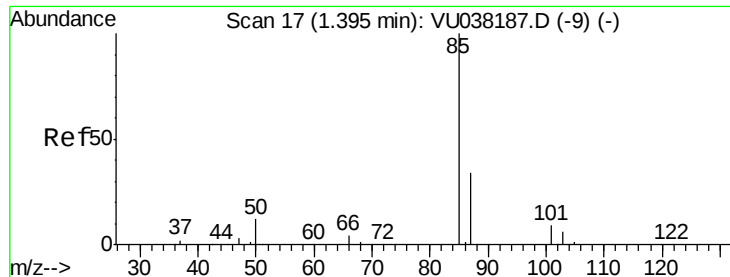
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051520\
Data File : VU038202.D
Acq On : 15 May 2020 16:49
Operator : JC/MD
Sample : L2657-08
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: May 16 03:35:22 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)
-----	-----	-----	-----	-----	-----	-----
59) 1,2,3-Trichloropropane	11.82	75	20552	1.046	ug/L	91
-----	-----	-----	-----	-----	-----	-----

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



#2

Dichlorodifluoromethane

Concen: 0.259 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Instrument :

MSVOA_U

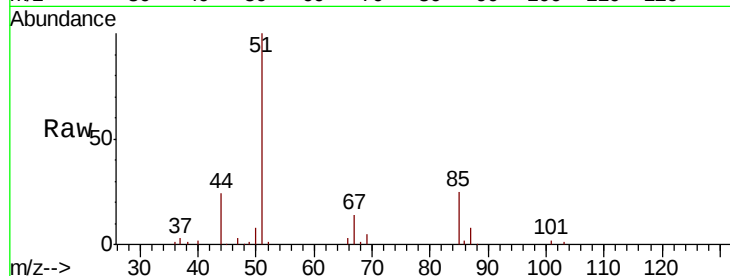
ClientSampleId :

Tot Ion: 85 Resp: 8164

Ion Ratio Lower Upper

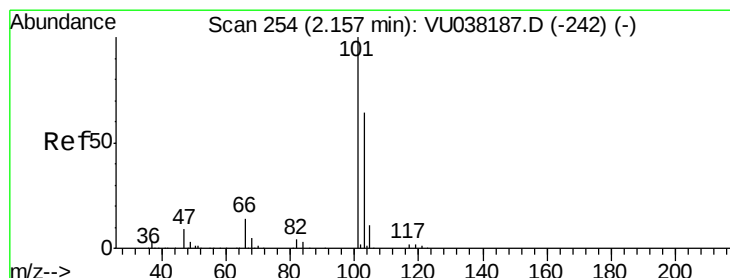
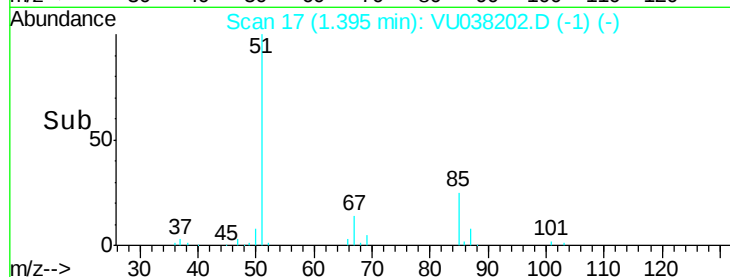
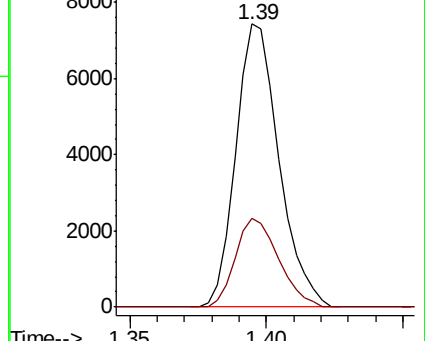
85 100

87 31.4 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: 0.329 ug/L

RT: 2.16 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU038202.D

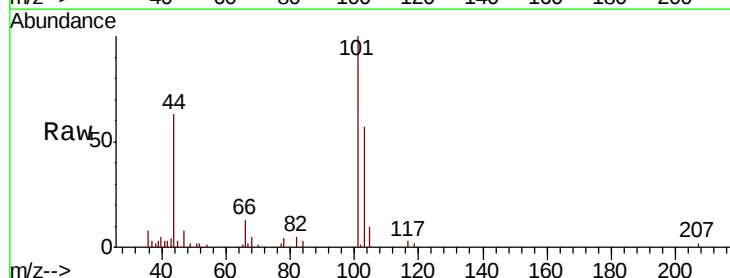
Acq: 15 May 2020 16:49

Tgt Ion: 101 Resp: 12540

Ion Ratio Lower Upper

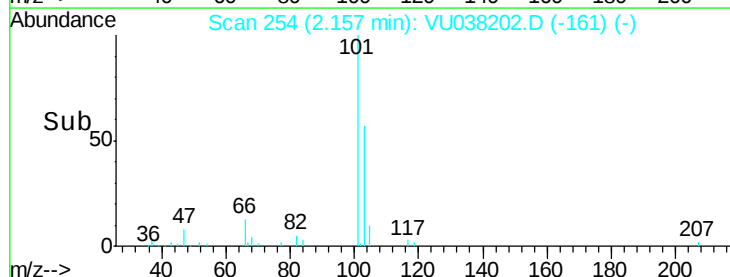
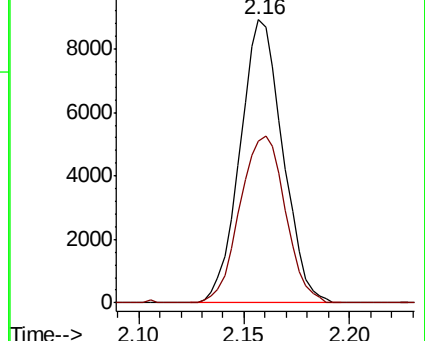
101 100

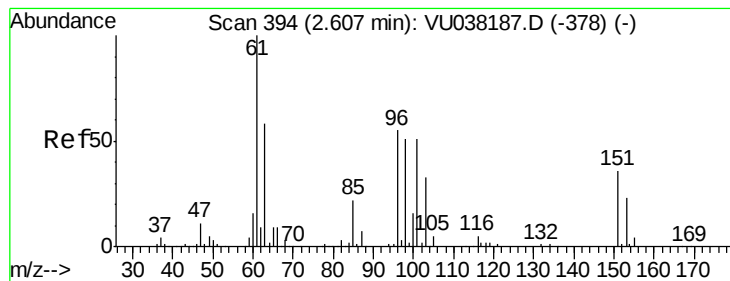
103 62.6 51.0 76.4



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: 0.223 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Instrument :

MSVOA_U

ClientSampleId :

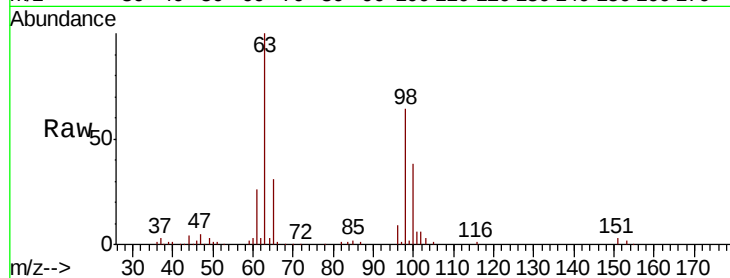
Tot Ion:101 Resp: 5257

Ion Ratio Lower Upper

101 100

85 31.7 35.3 52.9#

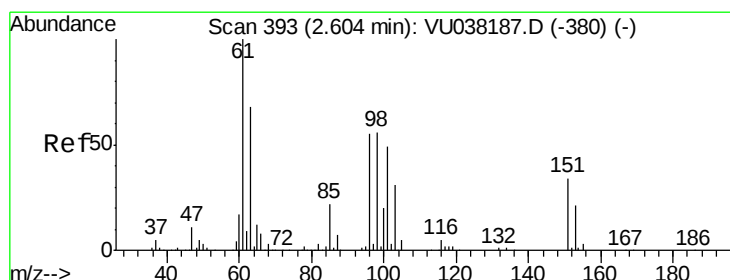
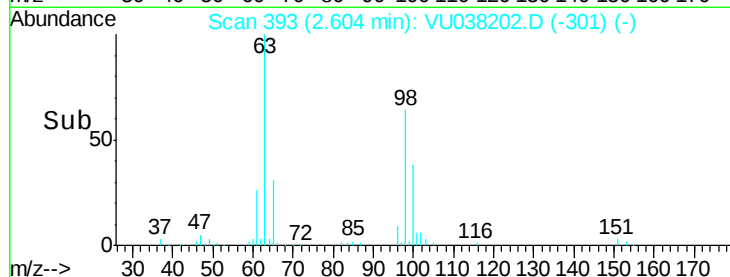
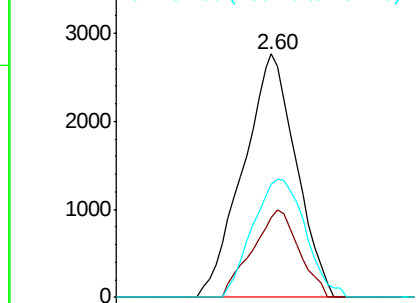
151 48.5 54.2 81.2#



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: 0.331 ug/L

RT: 2.60 min Scan# 393

Delta R.T. 0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

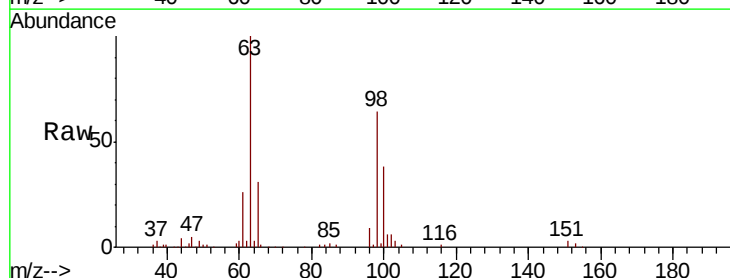
Tgt Ion: 96 Resp: 7927

Ion Ratio Lower Upper

96 100

61 300.6 126.2 234.4#

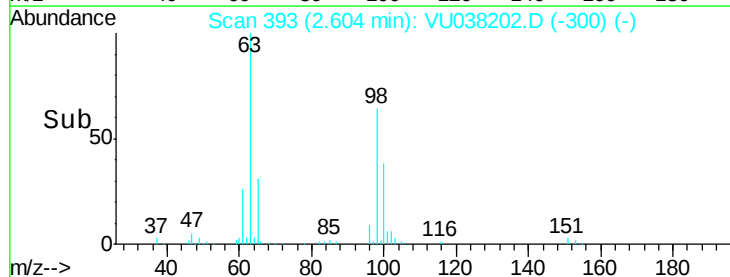
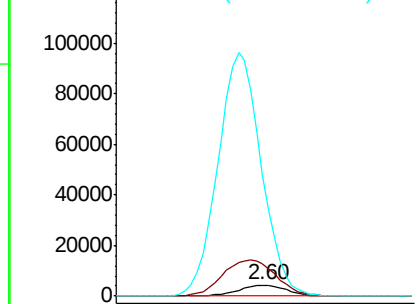
63 1141.6 96.9 179.9#

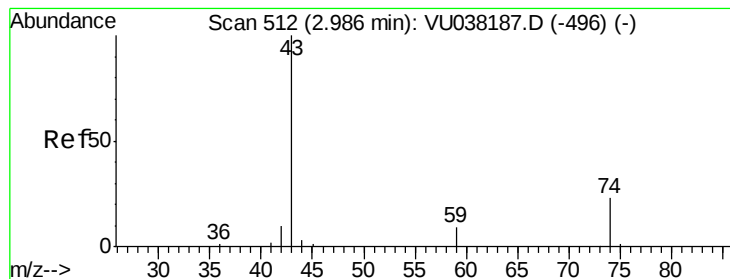


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#15

Methyl Acetate

Concen: 0.613 ug/L

RT: 2.83 min Scan# 463

Delta R.T. -0.16 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Instrument :

MSVOA_U

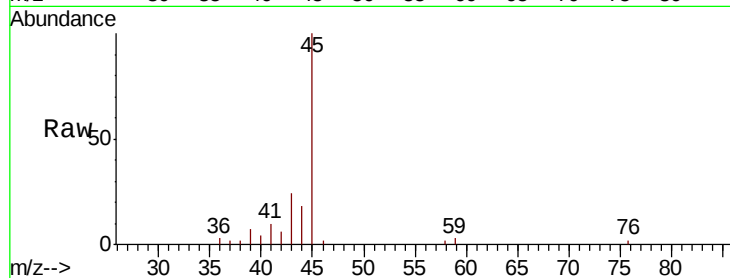
ClientSampleId :

Tot Ion: 43 Resp: 8367

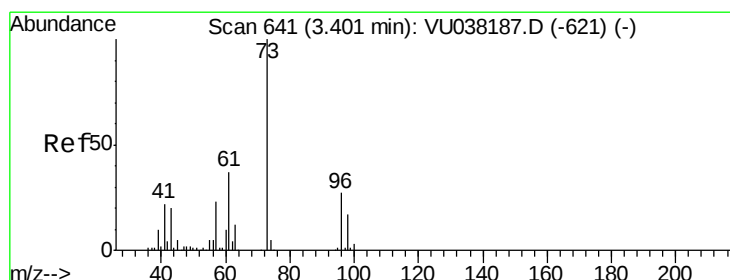
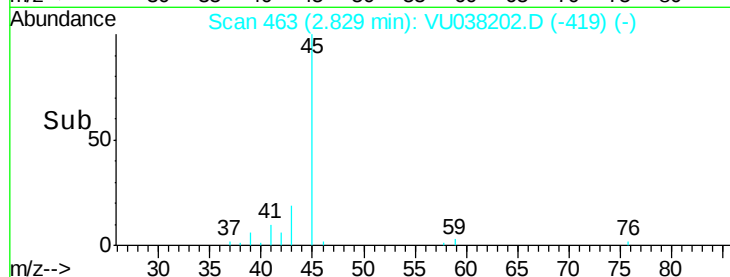
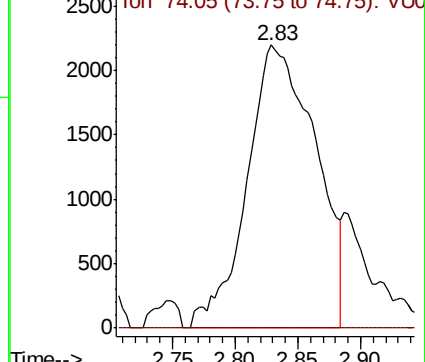
Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#



Abundance Ion 43.05 (42.75 to 43.75): VU038187.D (-496) (-)



#17

Methyl tert-butyl Ether

Concen: 0.156 ug/L

RT: 3.40 min Scan# 642

Delta R.T. 0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

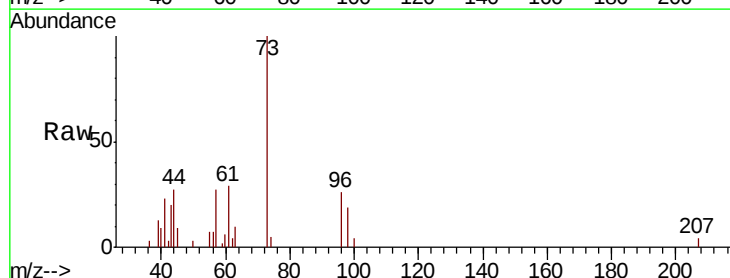
Tgt Ion: 73 Resp: 10394

Ion Ratio Lower Upper

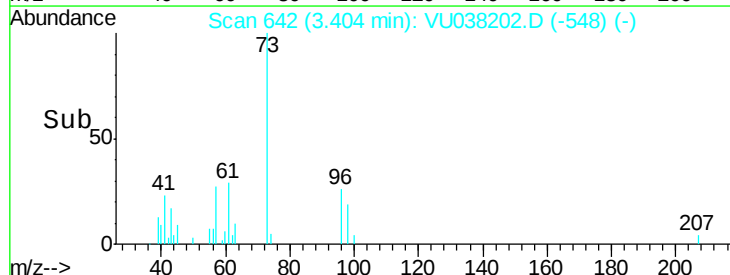
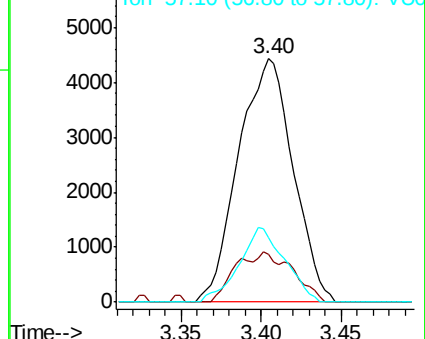
73 100

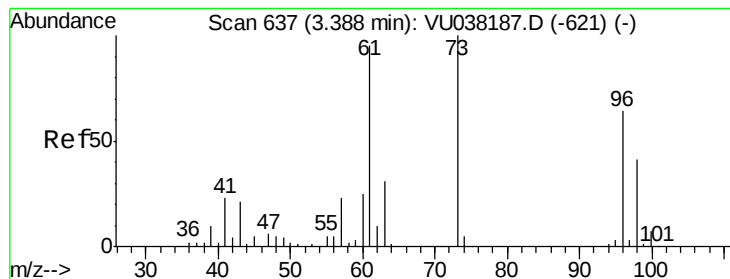
43 13.7 16.9 25.3#

57 25.6 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VU038187.D (-621) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.175 ug/L

RT: 3.39 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Instrument :

MSVOA_U

ClientSampleId :

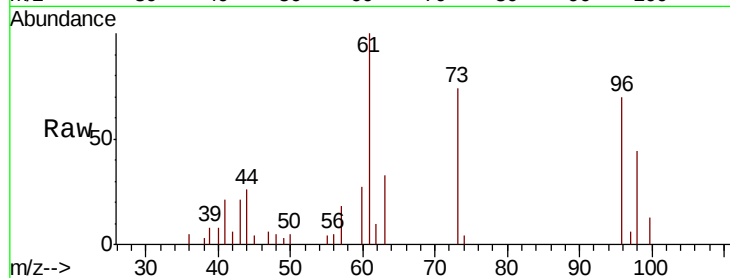
Tot Ion: 96 Resp: 4560

Ion Ratio Lower Upper

96 100

61 142.9 102.1 189.5

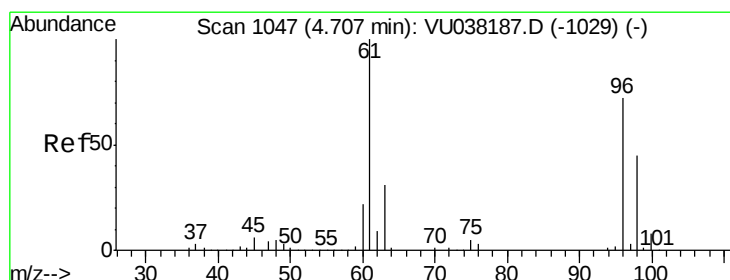
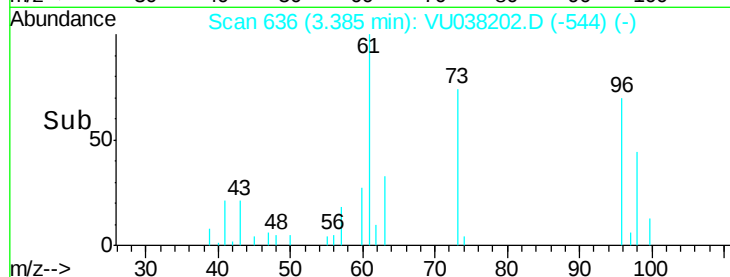
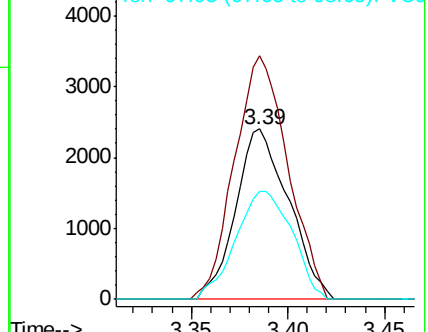
98 63.3 45.6 84.8



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) (-)



#22

cis-1,2-Dichloroethene

Concen: 9.525 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. 0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

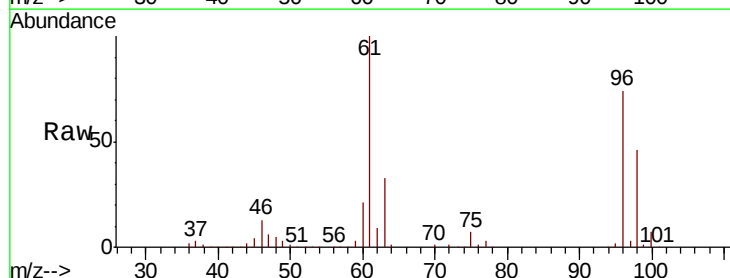
Tgt Ion: 96 Resp: 268098

Ion Ratio Lower Upper

96 100

61 135.0 95.3 176.9

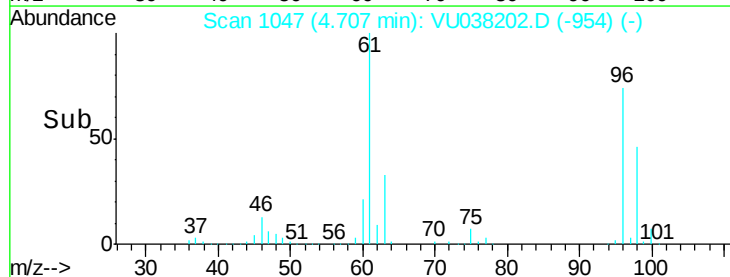
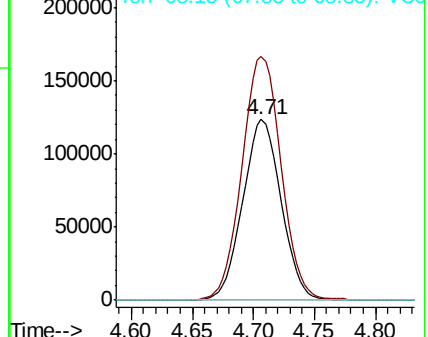
68 0.0 0.0 0.0

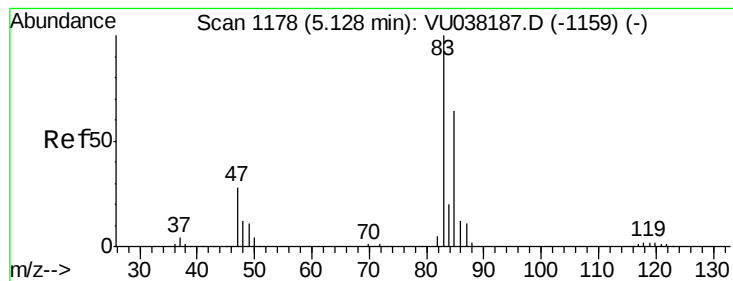


Abundance Ion 96.00 (95.70 to 96.70): VU038187.D (-1029) (-)

Ion 61.05 (60.75 to 61.75): VU038187.D (-1029) (-)

Ion 68.15 (67.85 to 68.85): VU038187.D (-1029) (-)





#25

Chloroform

Concen: 0.326 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Instrument :

MSVOA_U

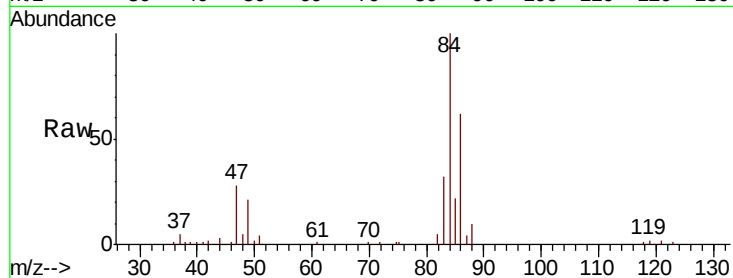
ClientSampleId :

Tot Ion: 83 Resp: 15505

Ion Ratio Lower Upper

83 100

85 68.1 46.2 85.8



Abundance Ion 83.05 (82.75 to 83.75): VU038187.D (-1159) (-)

Ion 85.00 (84.70 to 85.70): VU038187.D (-1159) (-)

5.13

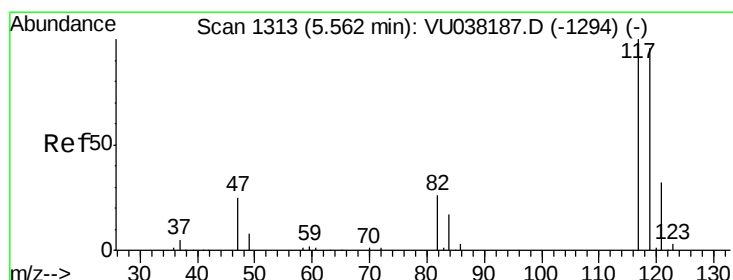
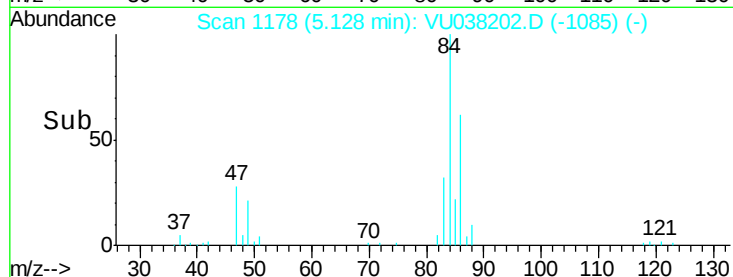
6000

4000

2000

0

Time-->



#31

Carbon tetrachloride

Concen: 0.445 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU038202.D

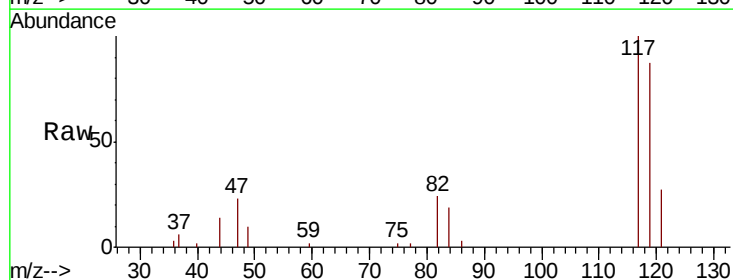
Acq: 15 May 2020 16:49

Tgt Ion: 117 Resp: 13790

Ion Ratio Lower Upper

117 100

119 86.9 75.4 113.2



Abundance Ion 116.90 (116.60 to 117.60): VU038187.D (-1294) (-)

Ion 118.90 (118.60 to 119.60): VU038187.D (-1294) (-)

5.56

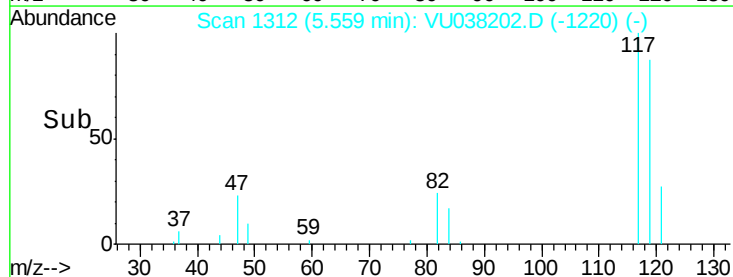
6000

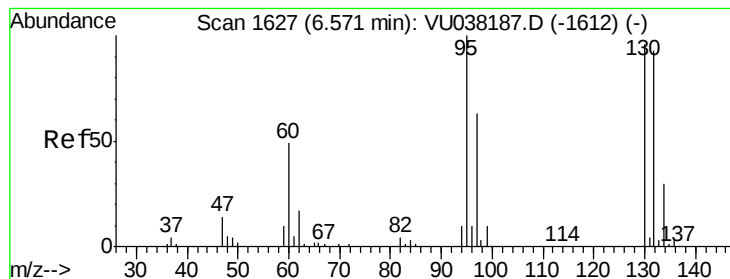
4000

2000

0

Time-->





#34

Trichloroethene

Concen: 73.105 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 95 Resp: 1969979

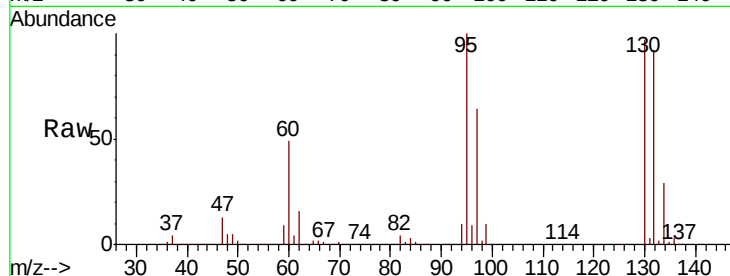
Ion Ratio Lower Upper

95 100

97 64.3 44.9 83.3

132 92.1 63.3 117.5

130 97.2 65.7 122.1

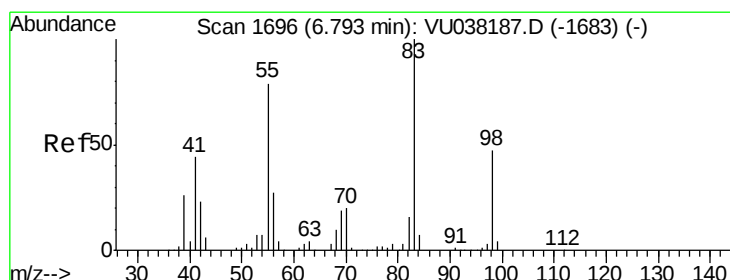
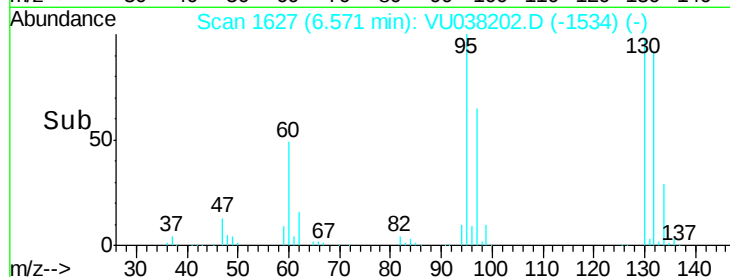
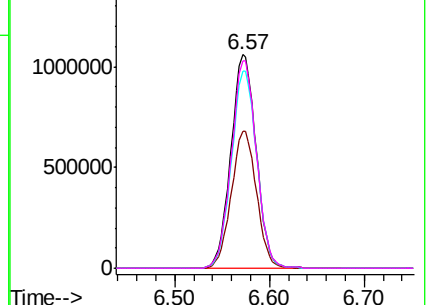


Abundance Ion 95.00 (94.70 to 95.70): VU038187.D (-1612) (-)

Ion 96.95 (96.65 to 97.65): VU038187.D (-1612) (-)

Ion 131.95 (131.65 to 132.65): VU038187.D (-1612) (-)

Ion 129.95 (129.65 to 130.65): VU038187.D (-1612) (-)



#35

Methylcyclohexane

Concen: 0.775 ug/L

RT: 6.72 min Scan# 1674

Delta R.T. -0.07 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

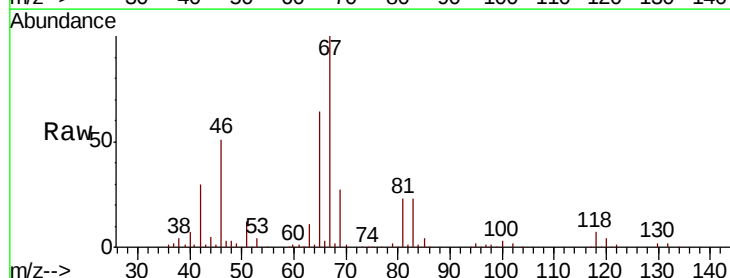
Tgt Ion: 83 Resp: 33817

Ion Ratio Lower Upper

83 100

55 0.5 66.7 100.1#

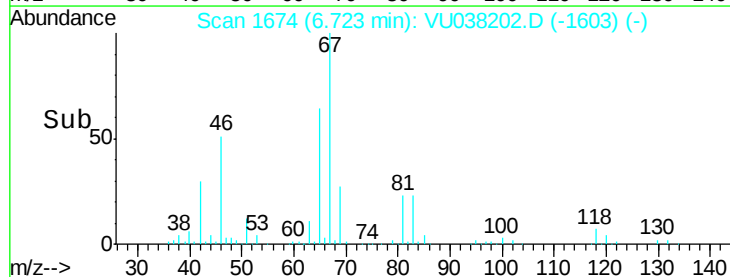
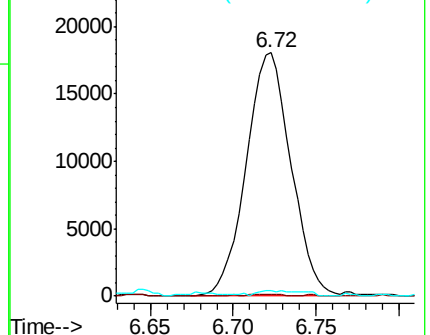
98 0.0 39.4 59.2#

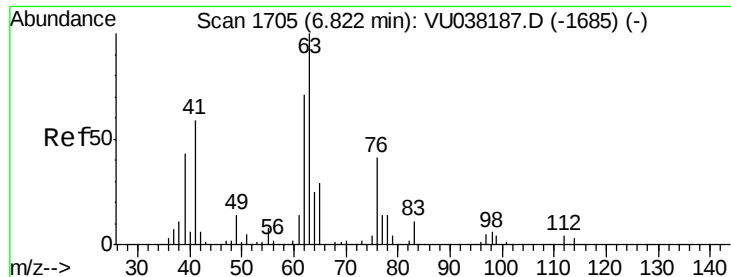


Abundance Ion 83.15 (82.85 to 83.85): VU038187.D (-1683) (-)

Ion 55.10 (54.80 to 55.80): VU038187.D (-1683) (-)

Ion 98.15 (97.85 to 98.85): VU038187.D (-1683) (-)

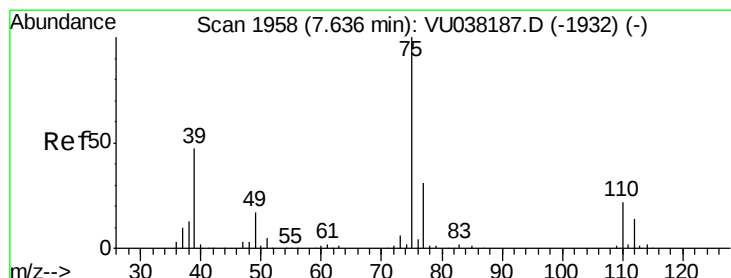
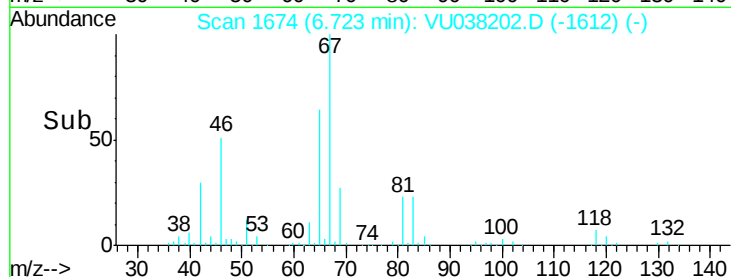
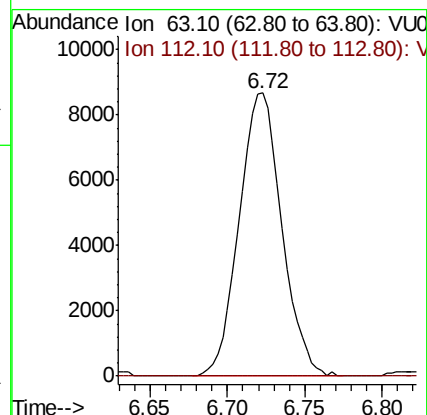
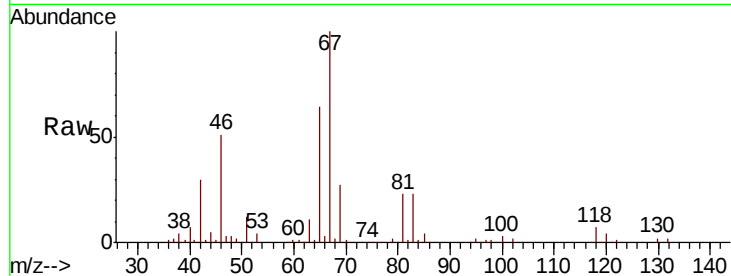




#37
 1,2-Dichloropropane
 Concen: 0.567 ug/L
 RT: 6.72 min Scan# 1674
 Delta R.T. -0.10 min
 Lab File: VU038202.D
 Acq: 15 May 2020 16:49

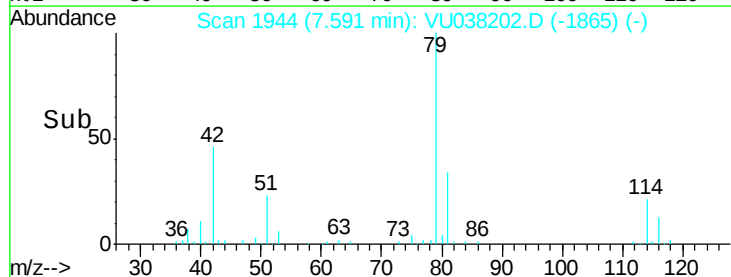
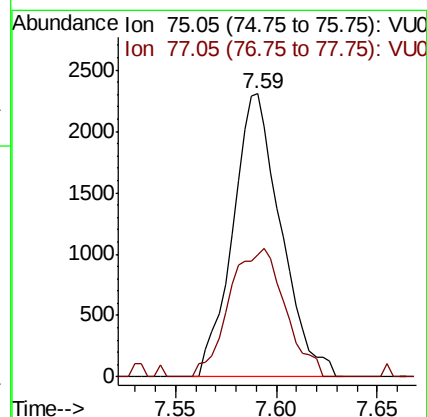
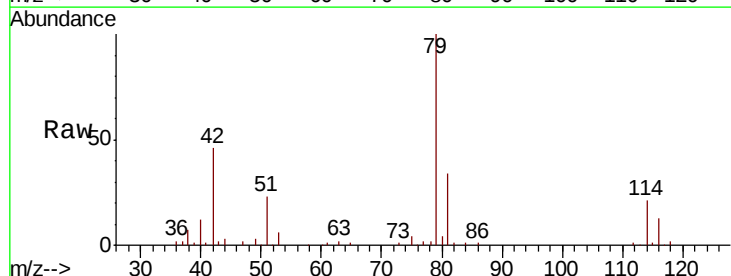
Instrument :
 MSVOA_U
 ClientSampleId :

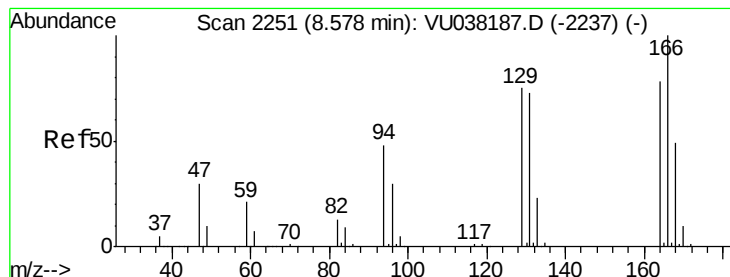
Tot Ion: 63 Resp: 16598
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.092 ug/L
 RT: 7.59 min Scan# 1944
 Delta R.T. -0.04 min
 Lab File: VU038202.D
 Acq: 15 May 2020 16:49

Tgt Ion: 75 Resp: 3846
 Ion Ratio Lower Upper
 75 100
 77 43.1 22.4 41.6#





#47

Tetrachloroethene

Concen: 49.676 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 936333

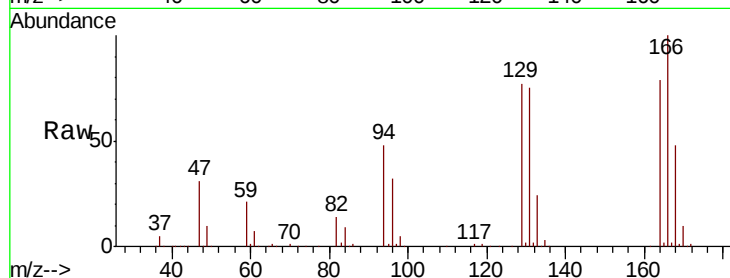
Ion Ratio Lower Upper

164 100

129 98.1 68.8 127.8

131 94.5 66.8 124.2

166 126.6 88.9 165.1

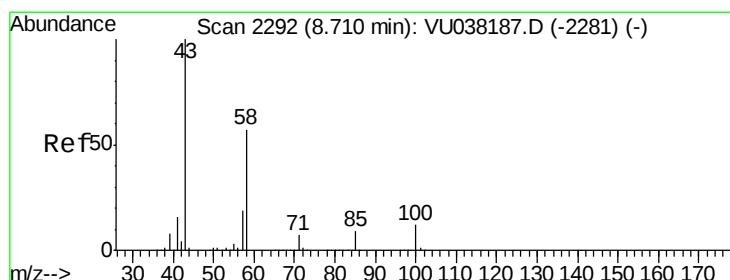
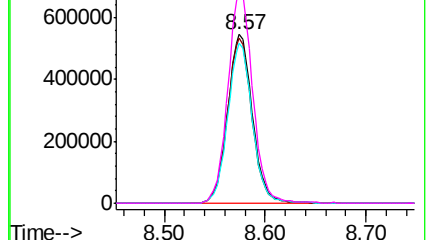
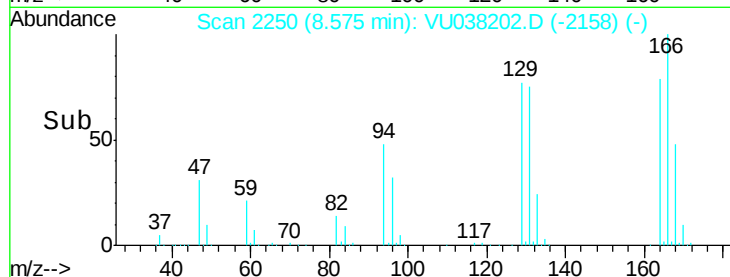


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.664 ug/L

RT: 8.71 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Tgt Ion: 43 Resp: 24713

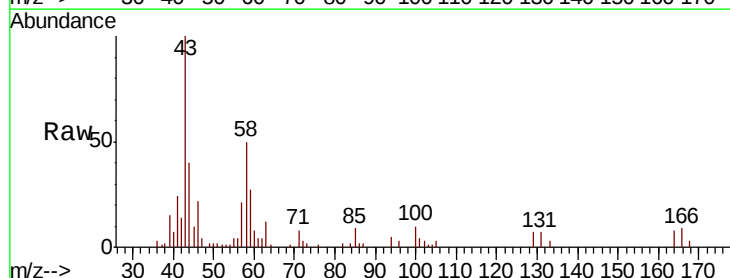
Ion Ratio Lower Upper

43 100

58 48.9 45.2 67.8

57 22.9 15.5 23.3

100 10.2 9.5 14.3

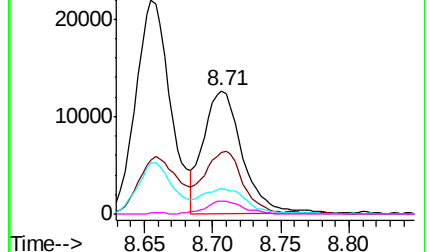
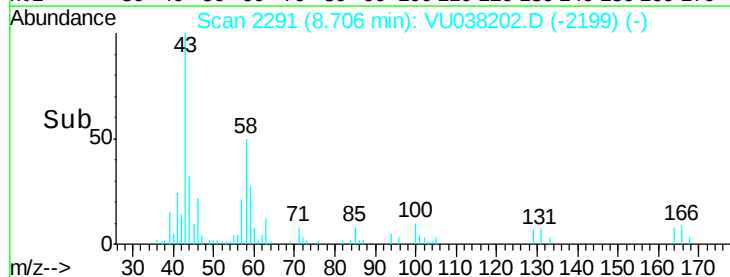


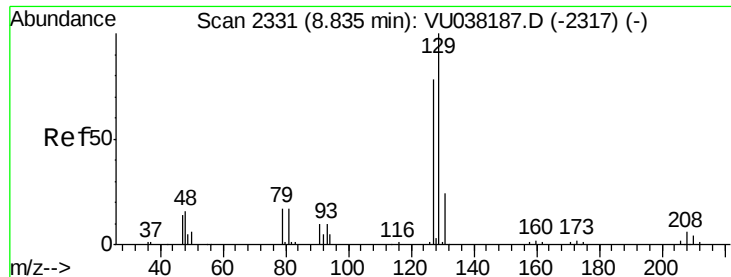
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 42.618 ug/L

RT: 8.57 min Scan# 2250

Delta R.T. -0.26 min

Lab File: VU038202.D

Acq: 15 May 2020 16:49

Instrument :

MSVOA_U

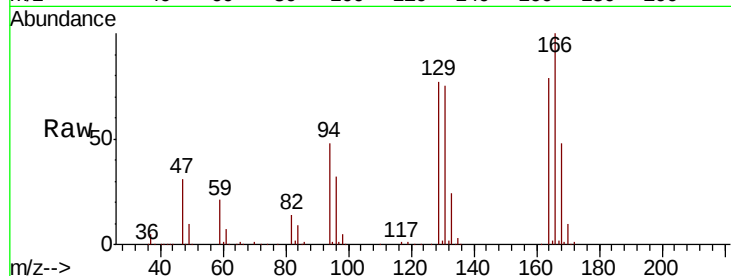
ClientSampleId :

Tot Ion:129 Resp: 898858

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

600000

500000

400000

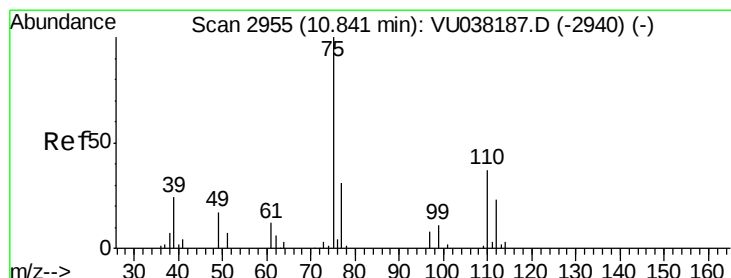
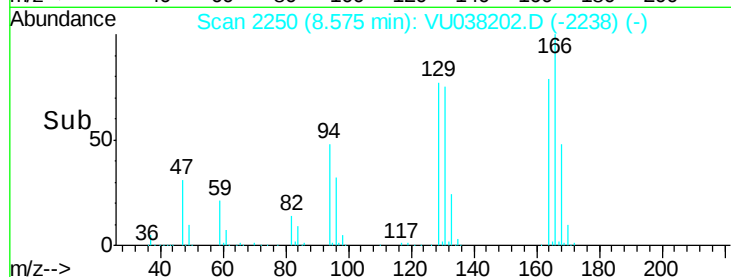
300000

200000

100000

0

Time--> 8.50 8.60 8.70



#59

1,2,3-Trichloropropane

Concen: 1.046 ug/L

RT: 11.82 min Scan# 3260

Delta R.T. 0.98 min

Lab File: VU038202.D

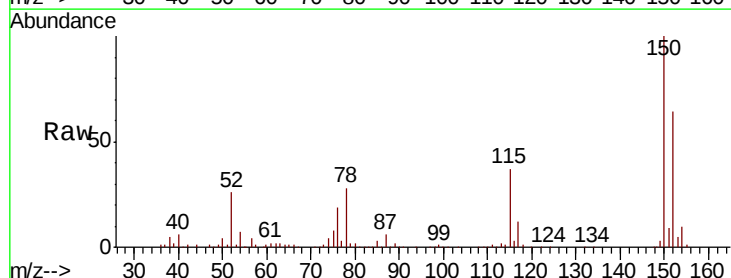
Acq: 15 May 2020 16:49

Tgt Ion: 75 Resp: 20552

Ion Ratio Lower Upper

75 100

77 36.7 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.82

10000

5000

0

Time--> 11.75 11.80 11.85

