

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041897.D
 Acq On : 08 Jan 2021 12:02
 Operator : SY/MD
 Sample : M1027-04
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:33:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	140258	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	136211	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	60525	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	39126	3.57	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.40%
7) Chloroethane-d5	1.92	69	42419	5.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.00%
11) 1,1-Dichloroethene-d2	2.58	63	62219	3.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.60%
20) 2-Butanone-d5	4.65	46	166990	53.02	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.04%
24) Chloroform-d	5.08	84	99144	5.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.60%
26) 1,2-Dichloroethane-d4	5.72	65	57228	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.40%
32) Benzene-d6	5.74	84	191667	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.20%
36) 1,2-Dichloropropane-d6	6.70	67	63674	5.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.20%
41) Toluene-d8	7.90	98	155501	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.40%
43) trans-1,3-Dichloropropene-	8.19	79	23093	4.20	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.00%
46) 2-Hexanone-d5	8.64	63	148394	49.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.74%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	57258	5.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	59350	5.51	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	10160	0.855 ug/L	95
3) Chloromethane	1.52	50	2638	0.229 ug/L	94
9) Trichlorofluoromethane	2.15	101	4650	0.288 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	706	0.073 ug/L #	31
12) 1,1-Dichloroethene	2.58	96	1019	0.107 ug/L #	1
13) Acetone	2.66	43	2569	1.282 ug/L	76
17) Methyl tert-butyl Ether	3.38	73	2108	0.083 ug/L #	82
19) 1,1-Dichloroethane	3.89	63	1018	0.055 ug/L #	51
22) cis-1,2-Dichloroethene	4.68	96	6488	0.596 ug/L	94
25) Chloroform	5.11	83	4778	0.258 ug/L	97
29) 1,1,1-Trichloroethane	5.33	97	2168	0.139 ug/L	96
31) Carbon tetrachloride	5.53	117	1038	0.077 ug/L #	80
34) Trichloroethene	6.55	95	56747	5.184 ug/L	98
35) Methylcyclohexane	6.70	83	15031	0.849 ug/L #	19
37) 1,2-Dichloropropane	6.70	63	6526	0.586 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1402	0.085 ug/L #	47
44) trans-1,3-Dichloropropene	8.18	75	974	0.066 ug/L	91

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Quant Time: Jan 09 01:33:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

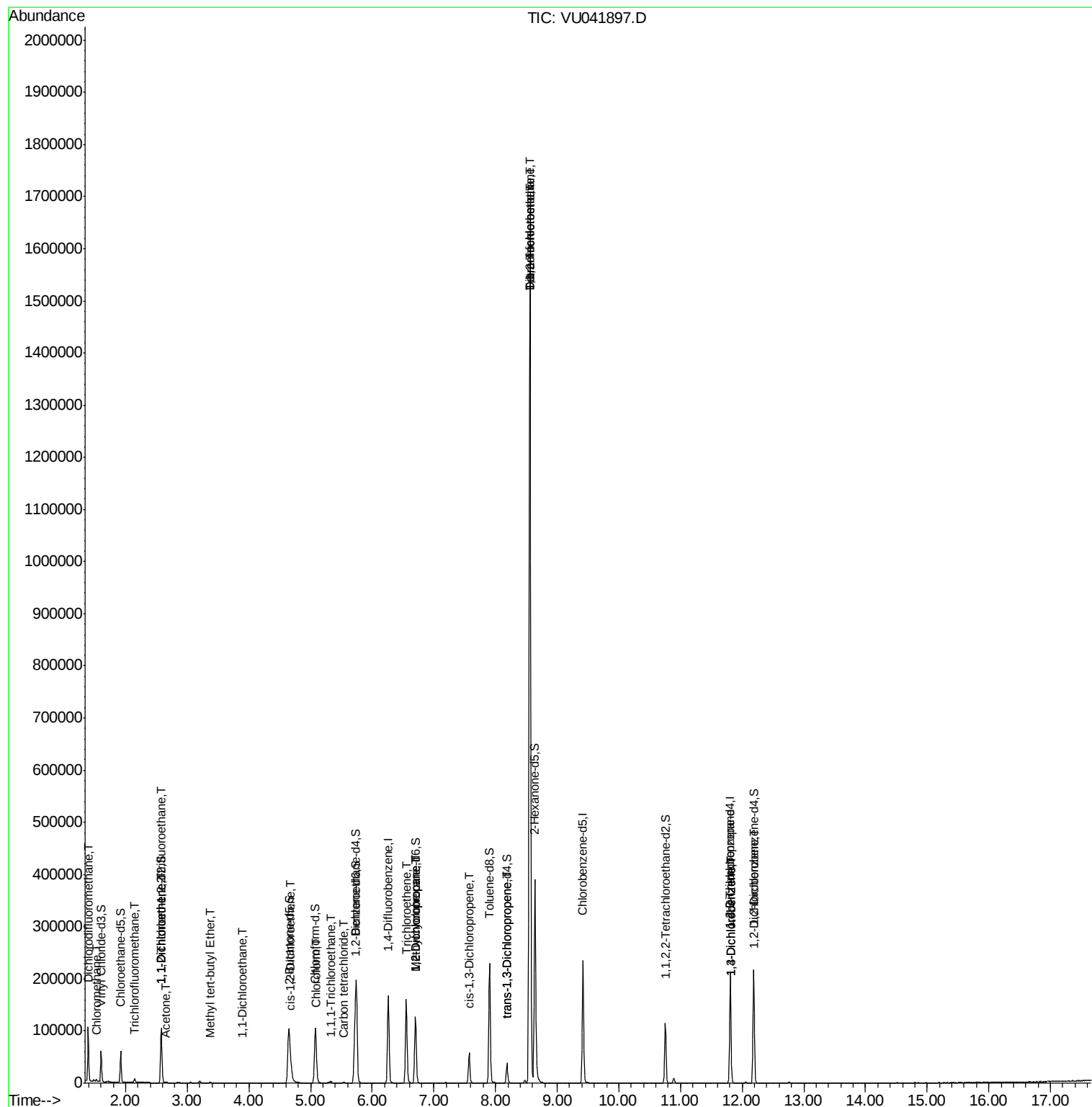
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.55	97	3319	0.403	ug/L #	13
47) Tetrachloroethene	8.56	164	391407	51.078	ug/L	96
49) Dibromochloromethane	8.56	129	371239	39.222	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6383	0.763	ug/L	91
62) 1,3-Dichlorobenzene	11.83	146	1112	0.060	ug/L	91
63) 1,4-Dichlorobenzene	11.83	146	1112	0.060	ug/L	88
65) 1,2-Dichlorobenzene	12.20	146	1150	0.063	ug/L	95

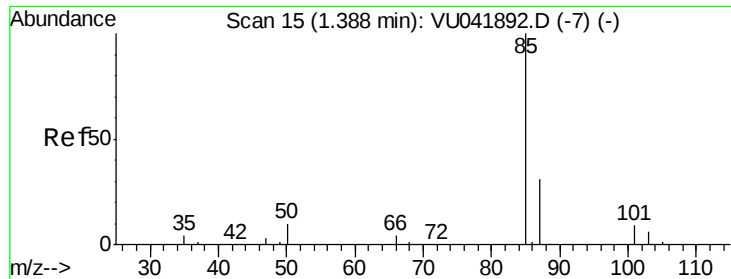
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.855 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

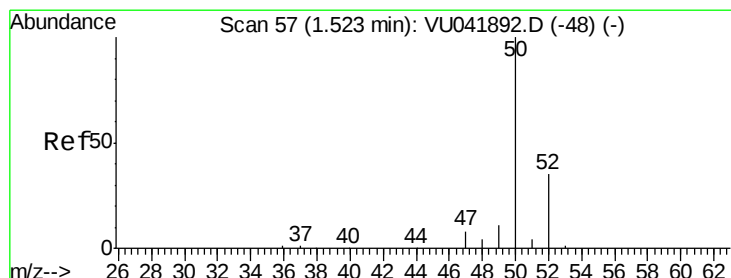
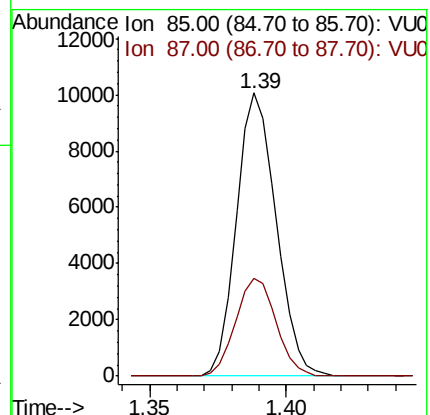
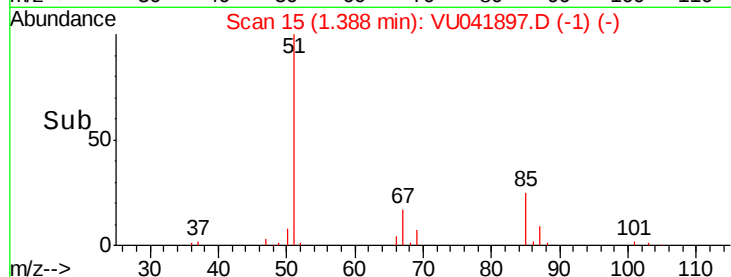
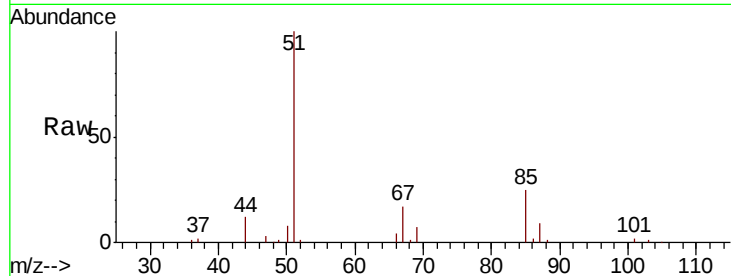
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 85 Resp: 10160

Ion Ratio Lower Upper

85 100

87 35.2 25.8 38.6



#3

Chloromethane

Concen: 0.229 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041897.D

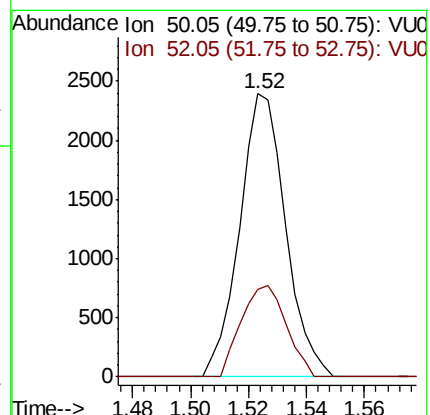
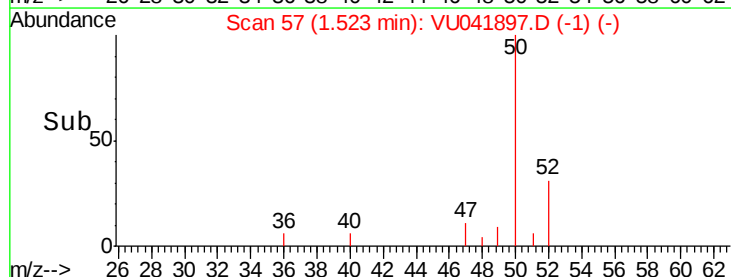
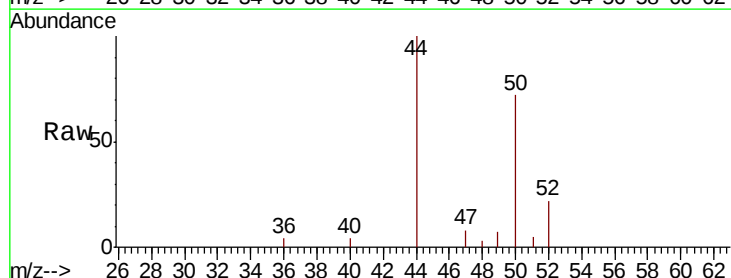
Acq: 08 Jan 2021 12:02

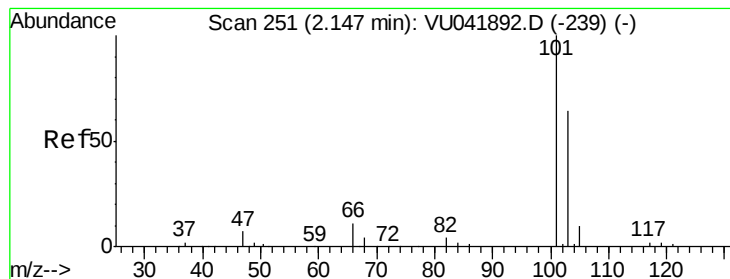
Tgt Ion: 50 Resp: 2638

Ion Ratio Lower Upper

50 100

52 31.1 24.1 44.8



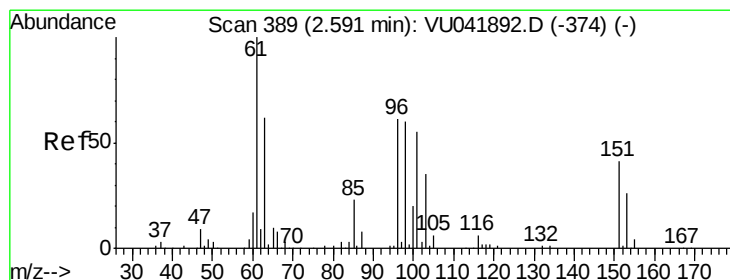
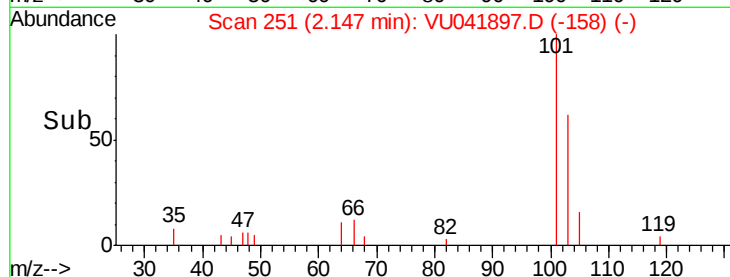
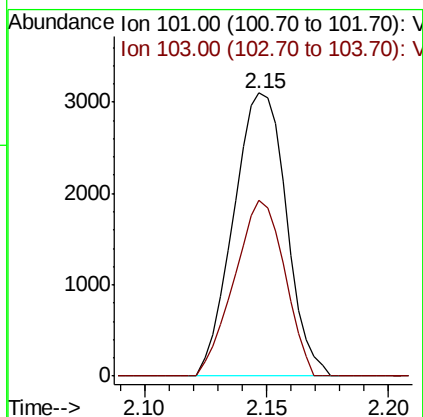
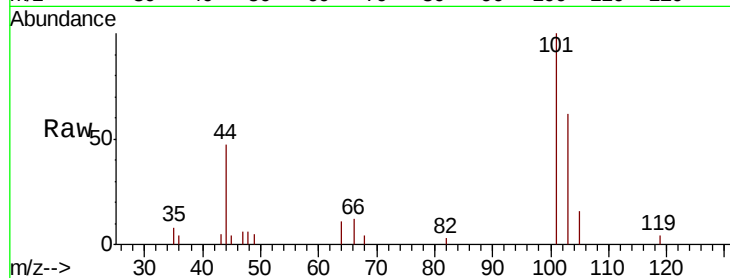


#9

Trichlorofluoromethane
Concen: 0.288 ug/L
RT: 2.15 min Scan# 251
Delta R.T. -0.00 min
Lab File: VU041897.D
Acq: 08 Jan 2021 12:02

Instrument :
MSVOA_U
ClientSampleId :

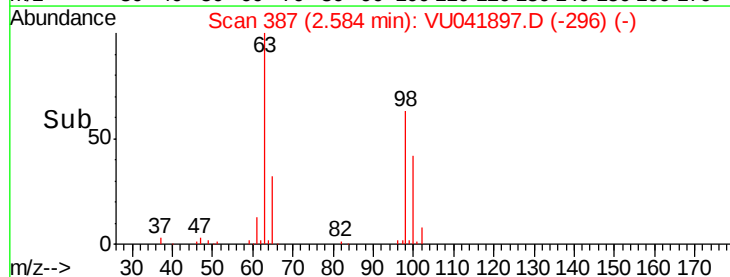
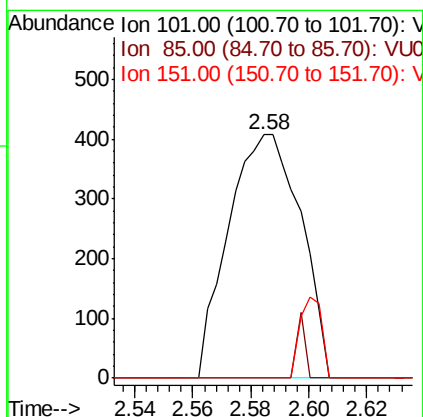
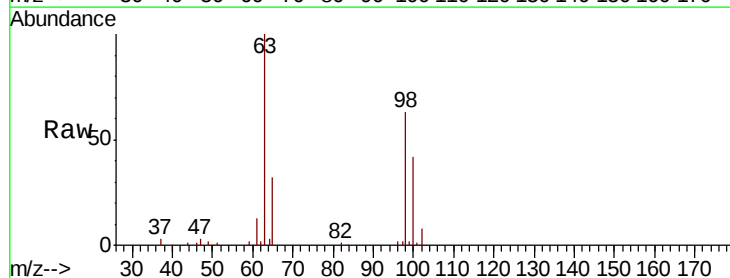
Tot Ion:101 Resp: 4650
Ion Ratio Lower Upper
101 100
103 59.3 51.1 76.7

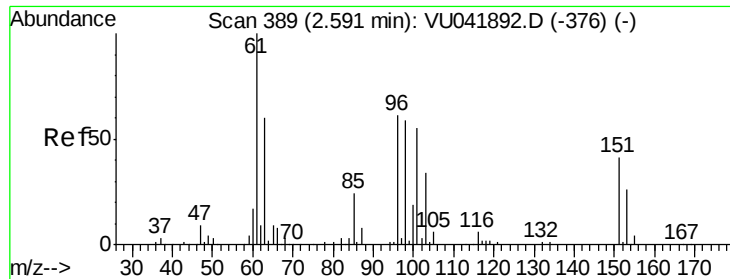


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.073 ug/L
RT: 2.58 min Scan# 387
Delta R.T. -0.01 min
Lab File: VU041897.D
Acq: 08 Jan 2021 12:02

Tgt Ion:101 Resp: 706
Ion Ratio Lower Upper
101 100
85 3.0 33.6 50.4#
151 9.9 56.2 84.4#

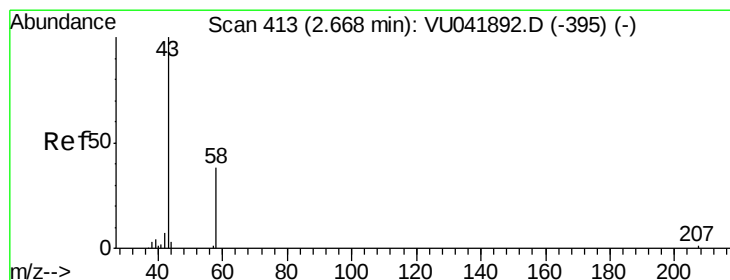
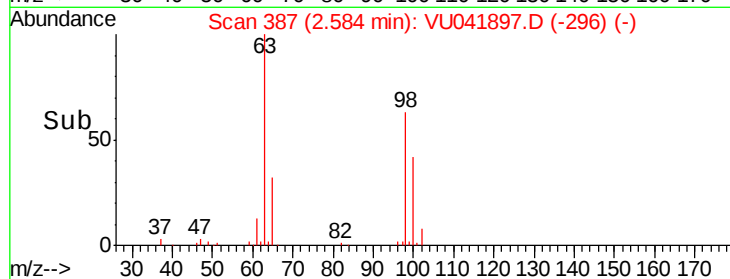
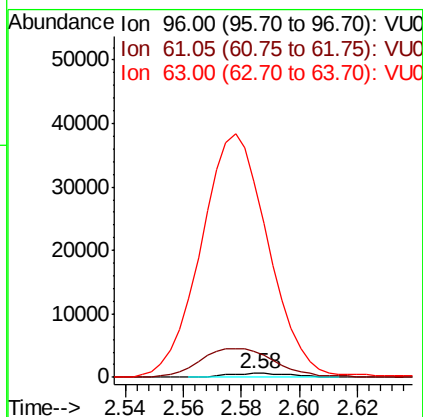
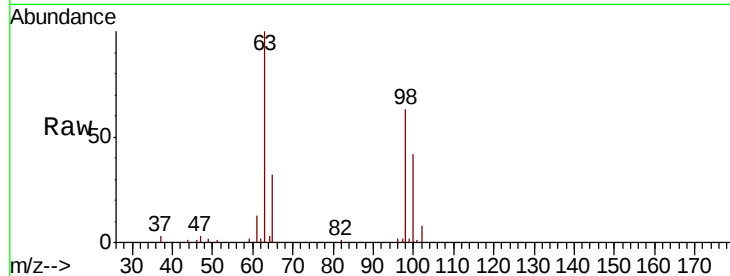




#12
 1,1-Dichloroethene
 Concen: 0.107 ug/L
 RT: 2.58 min Scan# 387
 Delta R.T. -0.01 min
 Lab File: VU041897.D
 Acq: 08 Jan 2021 12:02

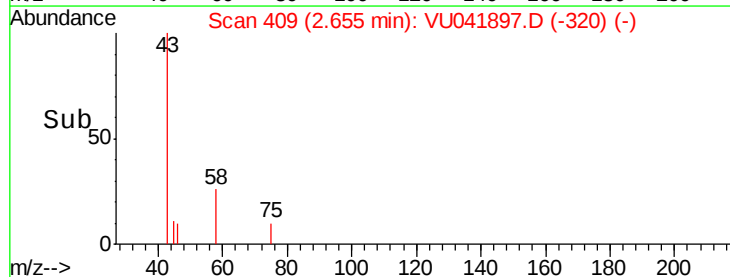
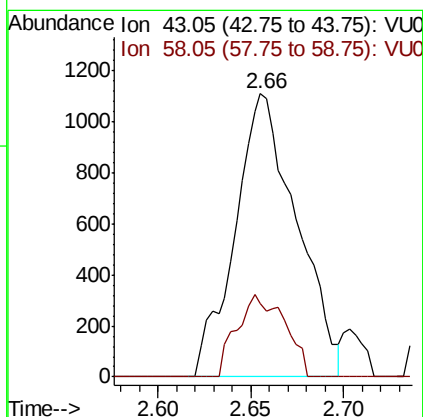
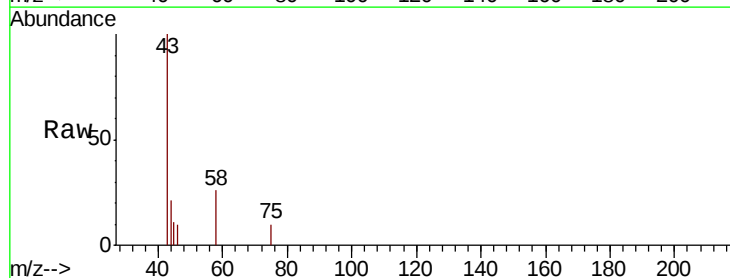
Instrument :
 MSVOA_U
 ClientSampleId :

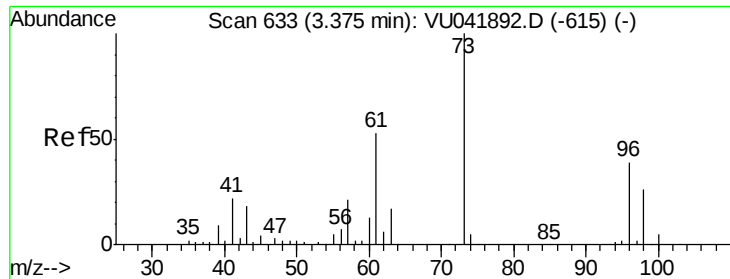
Tot Ion: 96 Resp: 1019
 Ion Ratio Lower Upper
 96 100
 61 653.7 123.8 230.0#
 63 4847.6 81.0 150.4#



#13
 Acetone
 Concen: 1.282 ug/L
 RT: 2.66 min Scan# 409
 Delta R.T. -0.01 min
 Lab File: VU041897.D
 Acq: 08 Jan 2021 12:02

Tgt Ion: 43 Resp: 2569
 Ion Ratio Lower Upper
 43 100
 58 22.7 0.0 73.2

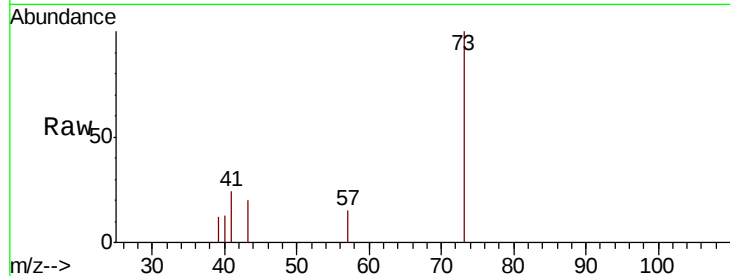




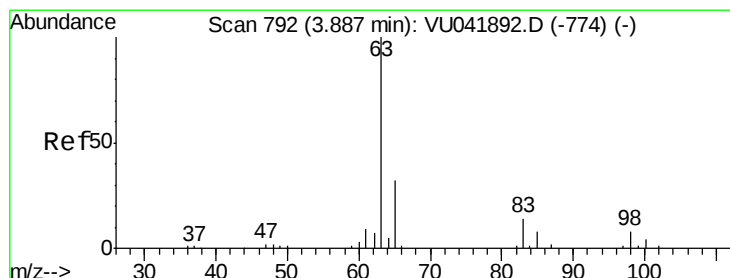
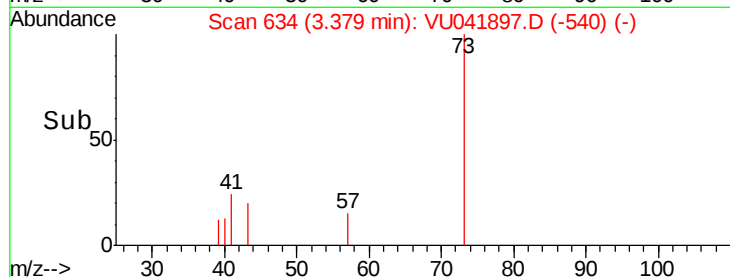
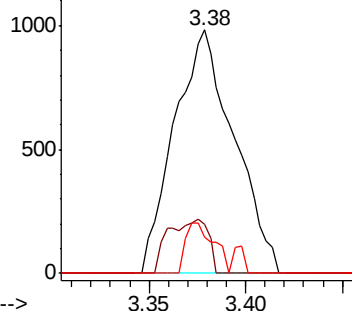
#17
Methvl tert-butvl Ether
Concen: 0.083 ug/L
RT: 3.38 min Scan# 634
Delta R.T. 0.00 min
Lab File: VU041897.D
Acq: 08 Jan 2021 12:02

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 73 Resp: 2108
Ion Ratio Lower Upper
73 100
43 14.9 14.7 22.1
57 9.7 18.2 27.4#

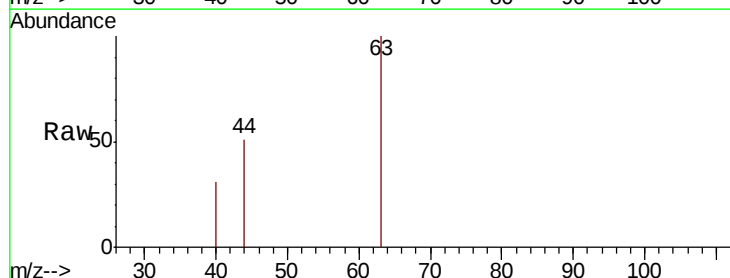


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

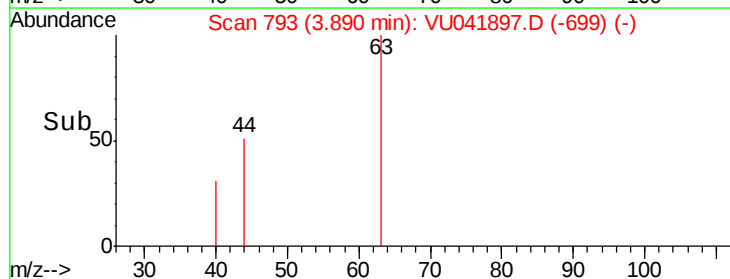
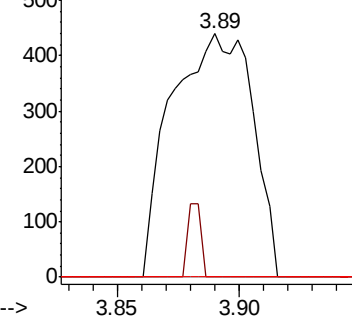


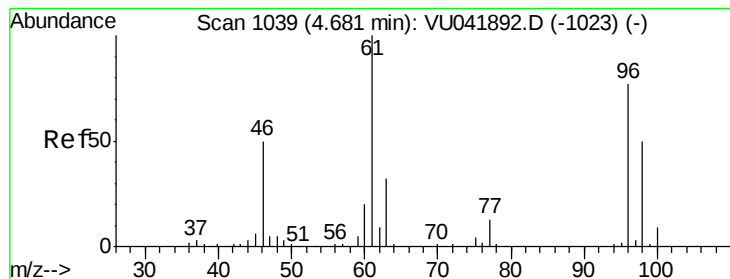
#19
1,1-Dichloroethane
Concen: 0.055 ug/L
RT: 3.89 min Scan# 793
Delta R.T. 0.00 min
Lab File: VU041897.D
Acq: 08 Jan 2021 12:02

Tgt Ion: 63 Resp: 1018
Ion Ratio Lower Upper
63 100
65 0.0 21.3 39.6#
83 0.0 9.3 17.3#



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: 0.596 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

Instrument :
MSVOA_U
ClientSampleId :

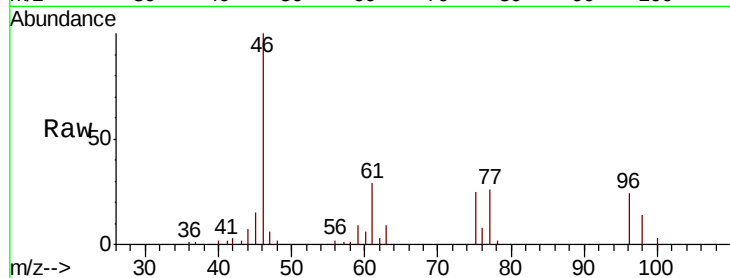
Tot Ion: 96 Resp: 6488

Ion Ratio Lower Upper

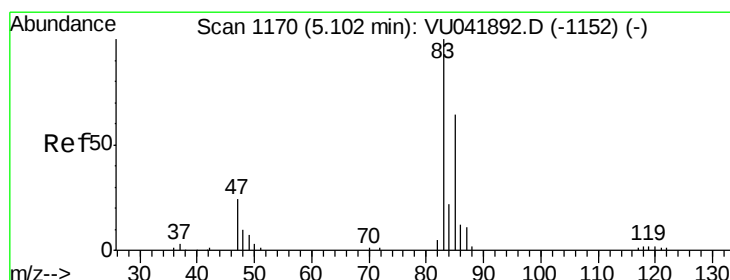
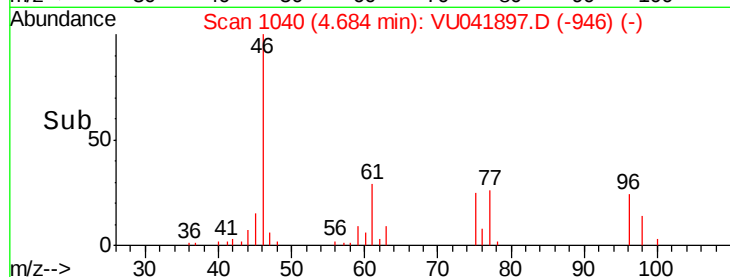
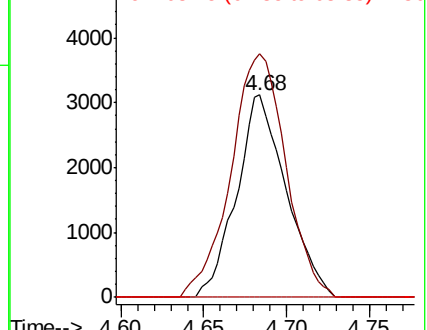
96 100

61 120.5 88.8 165.0

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: 0.258 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.00 min

Lab File: VU041897.D

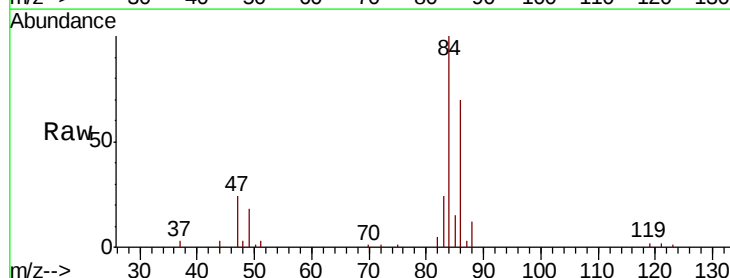
Acq: 08 Jan 2021 12:02

Tgt Ion: 83 Resp: 4778

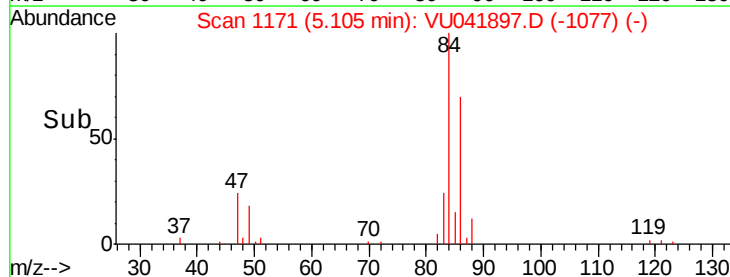
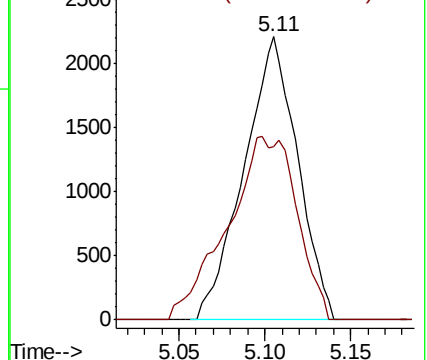
Ion Ratio Lower Upper

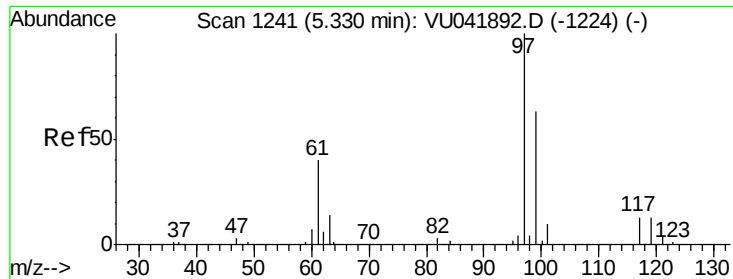
83 100

85 61.2 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU0
Ion 85.00 (84.70 to 85.70): VU0

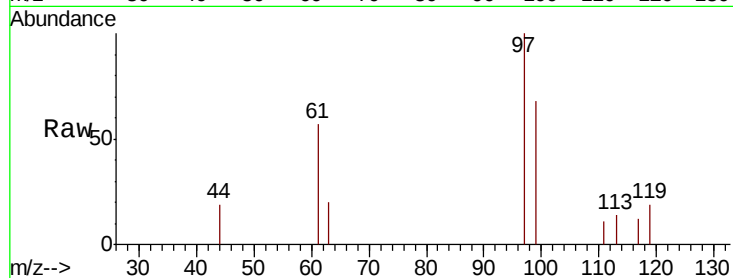




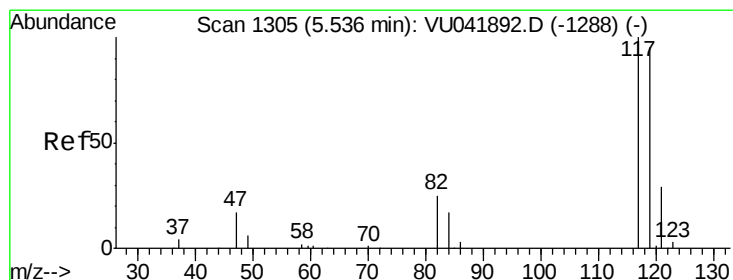
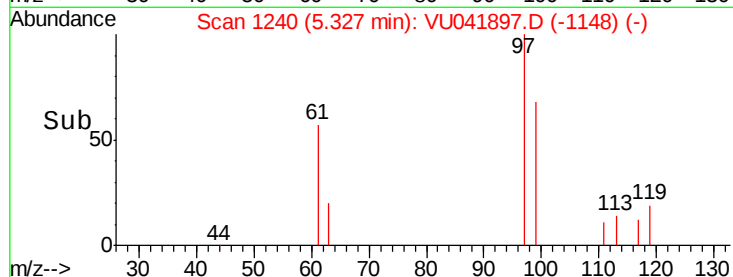
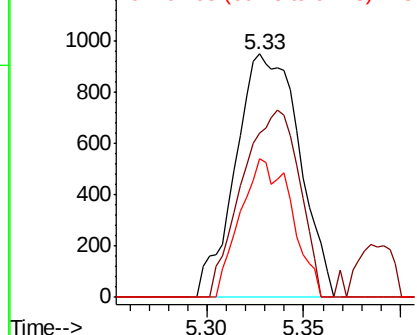
#29
 1,1,1-Trichloroethane
 Concen: 0.139 ug/L
 RT: 5.33 min Scan# 1240
 Delta R.T. -0.00 min
 Lab File: VU041897.D
 Acq: 08 Jan 2021 12:02

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 97 Resp: 2168
 Ion Ratio Lower Upper
 97 100
 99 69.3 51.3 76.9
 61 46.3 36.5 54.7

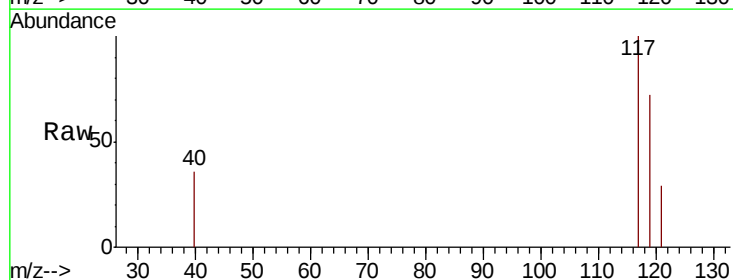


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

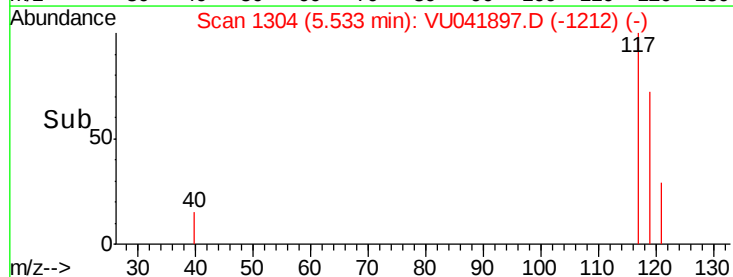
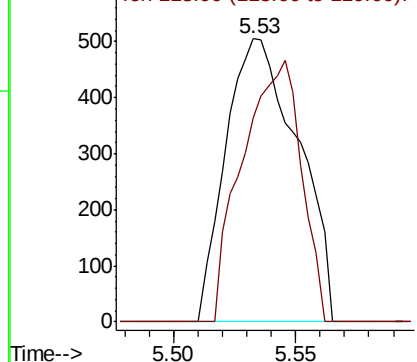


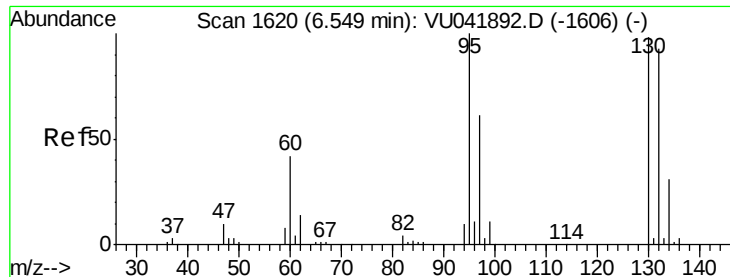
#31
 Carbon tetrachloride
 Concen: 0.077 ug/L
 RT: 5.53 min Scan# 1304
 Delta R.T. -0.00 min
 Lab File: VU041897.D
 Acq: 08 Jan 2021 12:02

Tgt Ion: 117 Resp: 1038
 Ion Ratio Lower Upper
 117 100
 119 75.3 76.2 114.2#



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V

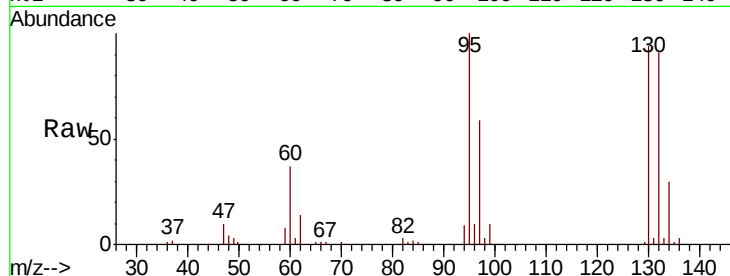




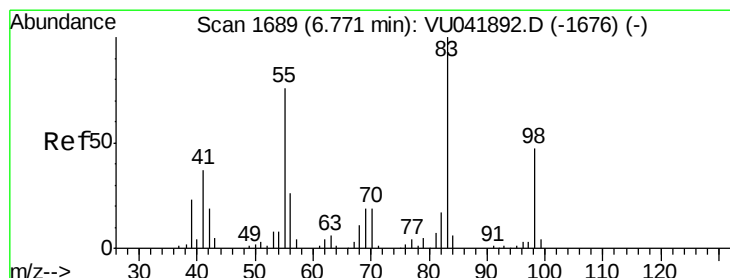
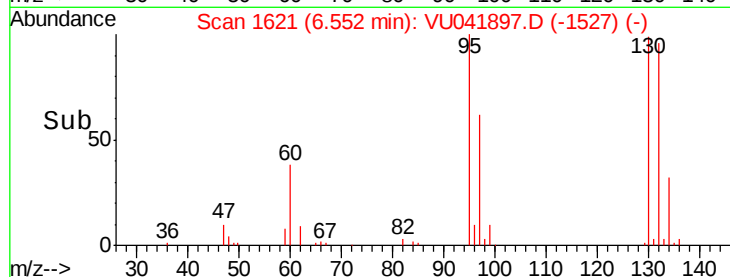
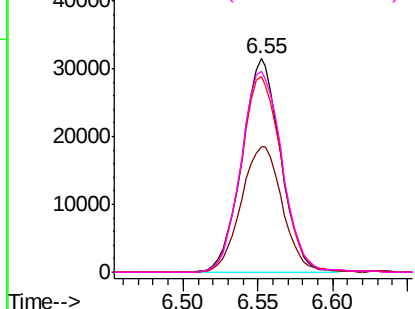
#34
 Trichloroethene
 Concen: 5.184 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041897.D
 Acq: 08 Jan 2021 12:02

Instrument :
 MSVOA_U
 ClientSampleID :

Tot Ion: 95 Resp: 56747
 Ion Ratio Lower Upper
 95 100
 97 59.0 43.9 81.5
 132 91.4 63.1 117.3
 130 94.4 67.4 125.2

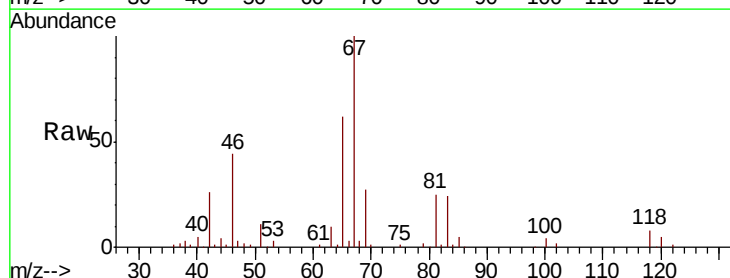


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

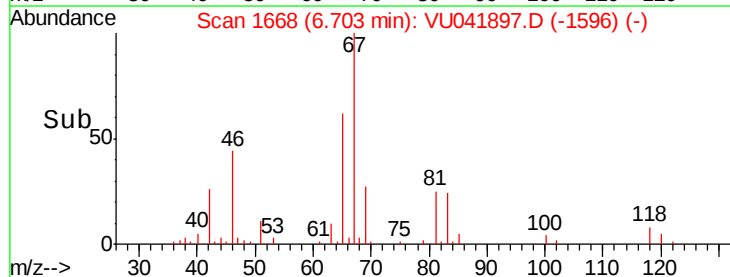
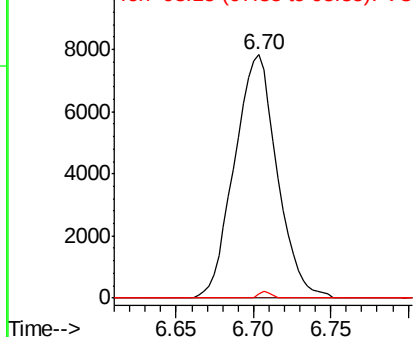


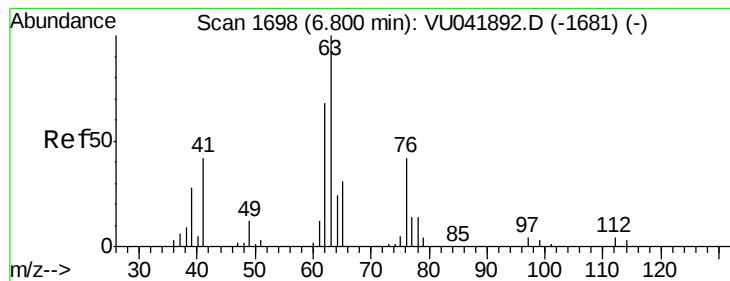
#35
 Methylcyclohexane
 Concen: 0.849 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041897.D
 Acq: 08 Jan 2021 12:02

Tgt Ion: 83 Resp: 15031
 Ion Ratio Lower Upper
 83 100
 55 0.0 61.2 91.8#
 98 0.8 36.6 54.8#



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: 0.586 ug/L

RT: 6.70 min Scan# 1667

Delta R.T. -0.10 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

Instrument :

MSVOA_U

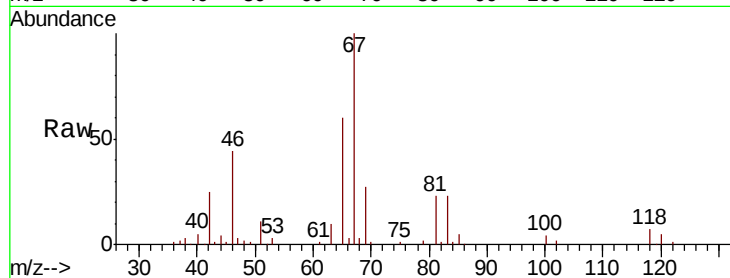
ClientSampleId :

Tot Ion: 63 Resp: 6526

Ion Ratio Lower Upper

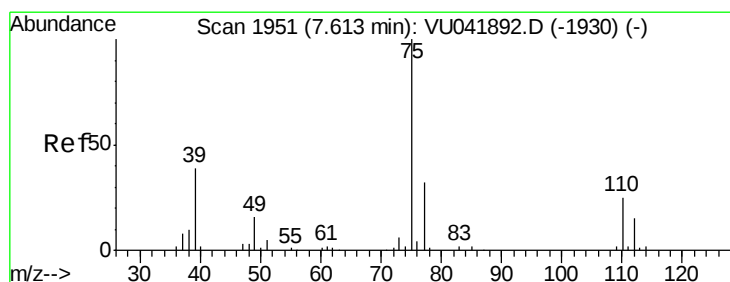
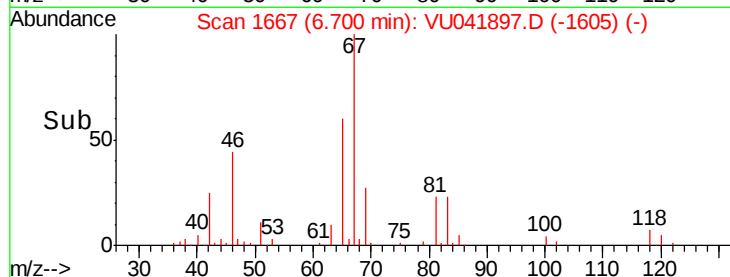
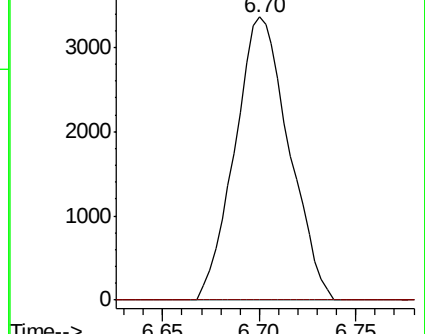
63 100

112 0.0 3.1 4.7#



Abundance Ion 63.10 (62.80 to 63.80): VU041897.D (-1681) (-)

Ion 112.10 (111.80 to 112.80): VU041897.D (-1681) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.085 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU041897.D

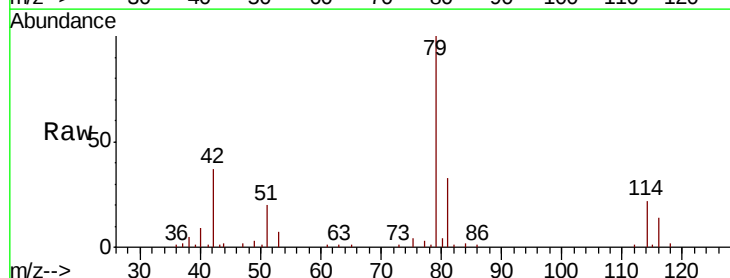
Acq: 08 Jan 2021 12:02

Tgt Ion: 75 Resp: 1402

Ion Ratio Lower Upper

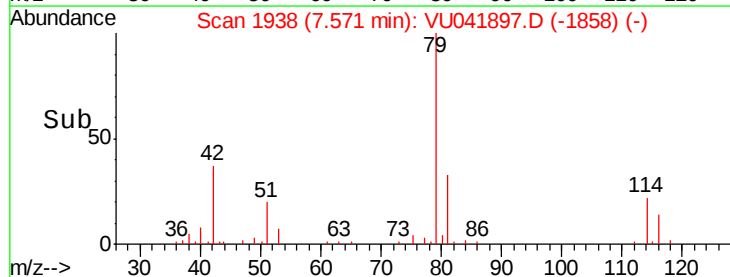
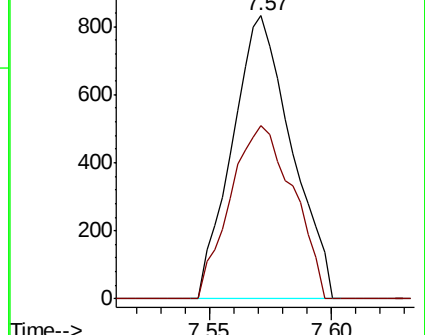
75 100

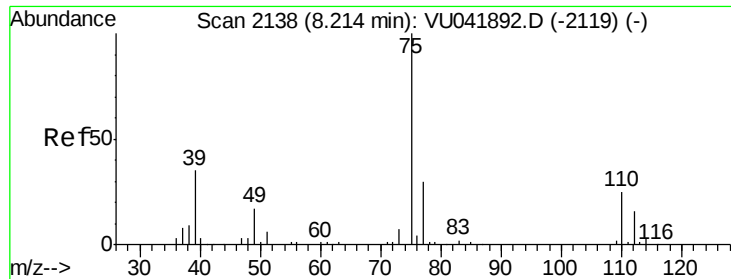
77 61.2 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VU041897.D (-1858) (-)

Ion 77.05 (76.75 to 77.75): VU041897.D (-1858) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.066 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

Instrument :

MSVOA_U

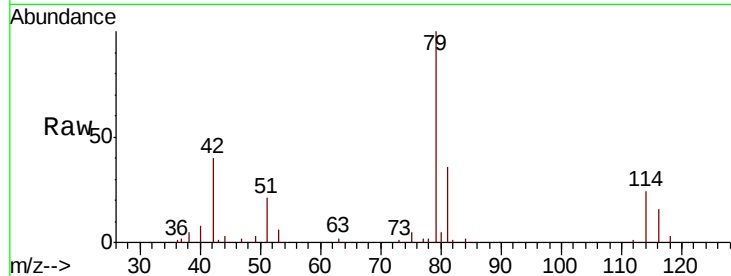
ClientSampleId :

Tot Ion: 75 Resp: 974

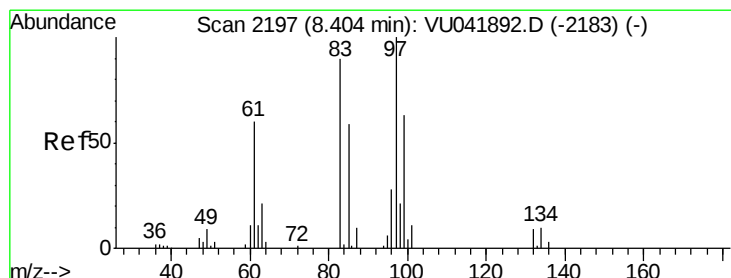
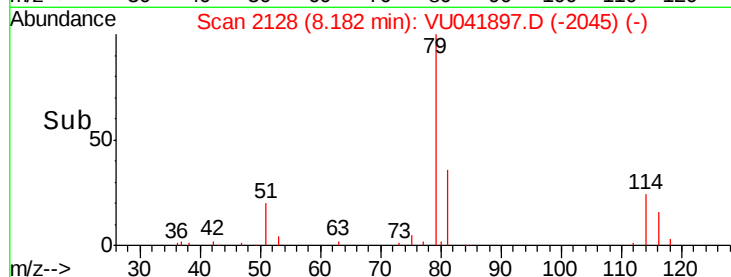
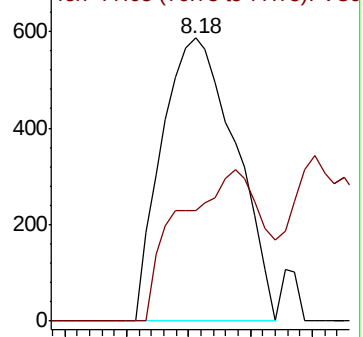
Ion Ratio Lower Upper

75 100

77 39.0 23.8 44.2



Abundance Ion 75.05 (74.75 to 75.75): VU041892.D (-2119) (-)



#45

1,1,2-Trichloroethane

Concen: 0.403 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. 0.15 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

Tgt Ion: 97 Resp: 3319

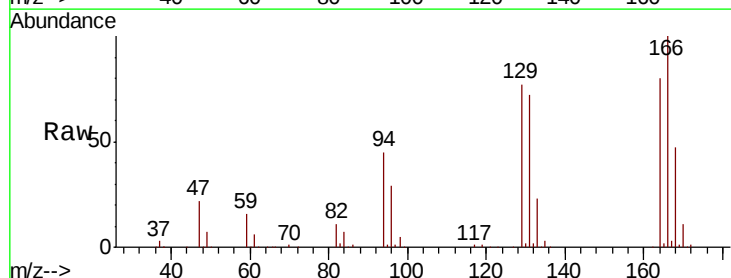
Ion Ratio Lower Upper

97 100

99 17.3 42.1 78.3#

83 227.4 62.6 116.2#

85 38.2 39.1 72.7#

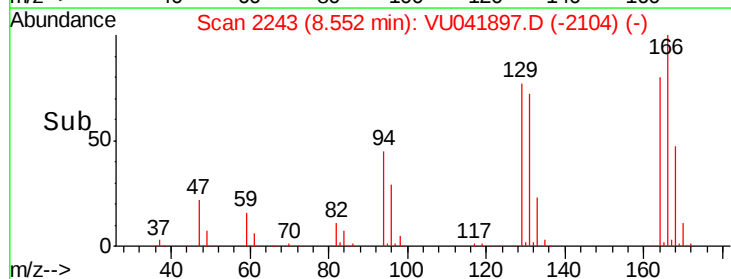
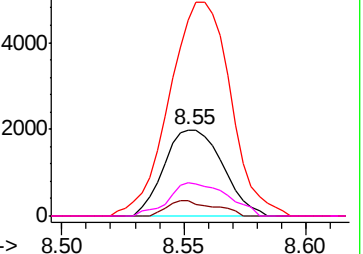


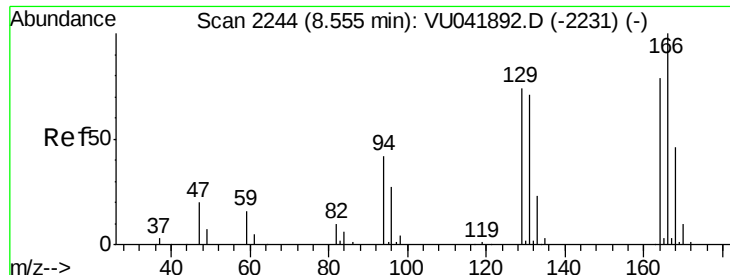
Abundance Ion 96.95 (96.65 to 97.65): VU041892.D (-2183) (-)

Ion 99.05 (98.75 to 99.75): VU041892.D (-2183) (-)

Ion 82.95 (82.65 to 83.65): VU041892.D (-2183) (-)

Ion 85.00 (84.70 to 85.70): VU041892.D (-2183) (-)





#47

Tetrachloroethene

Concen: 51.078 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:164 Resp: 391407

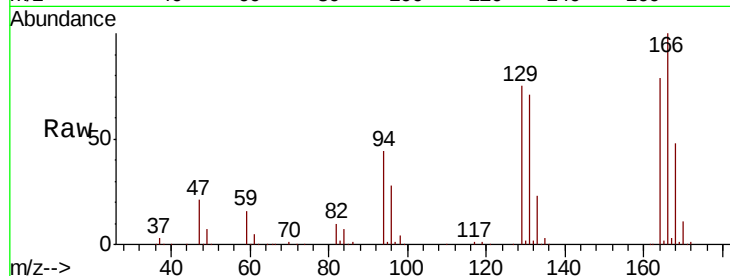
Ion Ratio Lower Upper

164 100

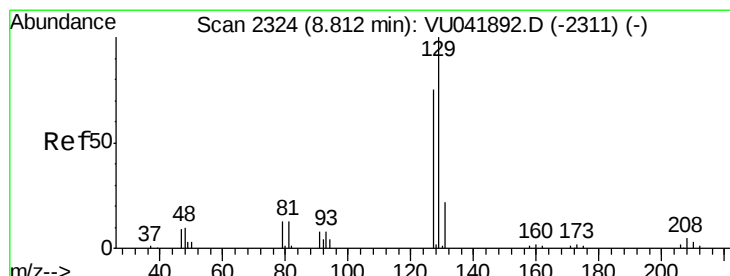
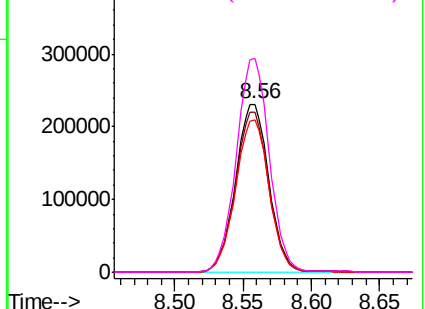
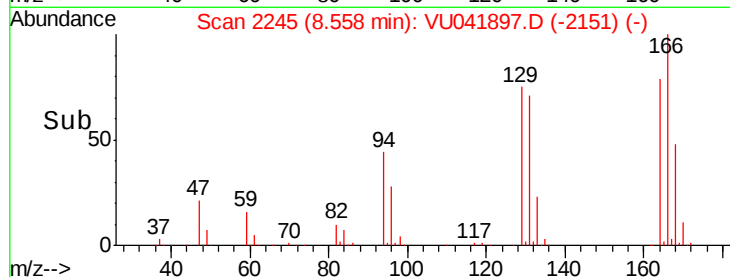
129 95.2 72.2 134.0

131 90.7 66.9 124.3

166 127.1 89.6 166.4



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: 39.222 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. -0.26 min

Lab File: VU041897.D

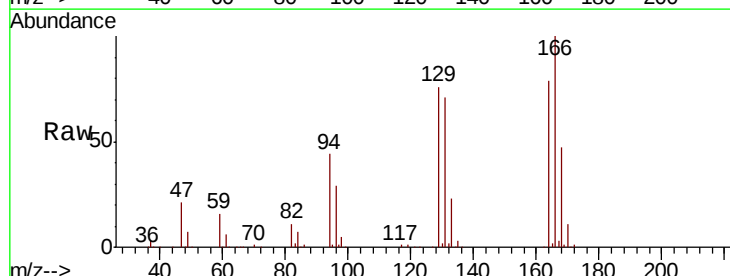
Acq: 08 Jan 2021 12:02

Tgt Ion:129 Resp: 371239

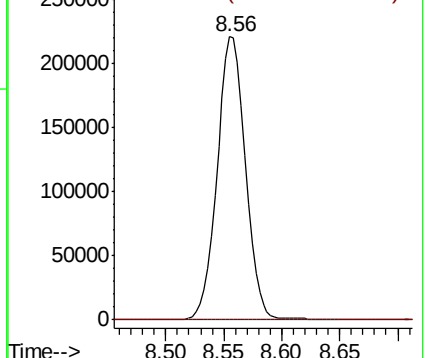
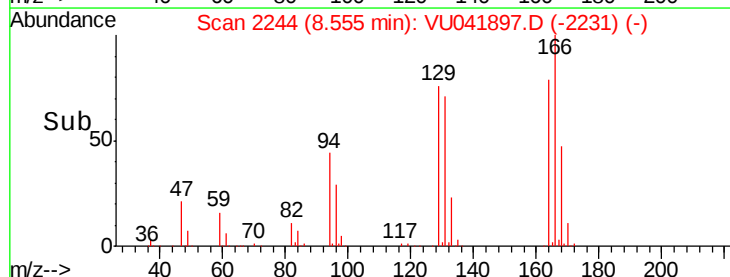
Ion Ratio Lower Upper

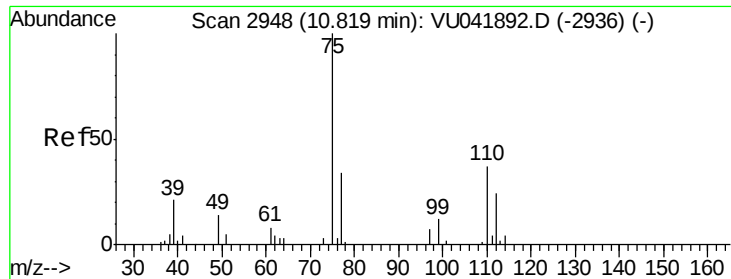
129 100

127 0.1 54.7 101.7#



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: 0.763 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

Instrument :

MSVOA_U

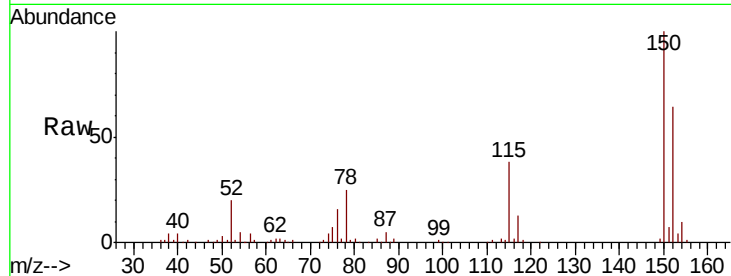
ClientSampleId :

Tot Ion: 75 Resp: 6383

Ion Ratio Lower Upper

75 100

77 27.9 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU041892.D (-2936) (-)

Ion 77.00 (76.70 to 77.70): VU041892.D (-2936) (-)

11.81

4000

3000

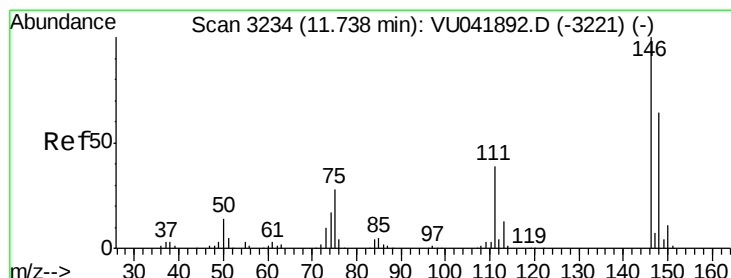
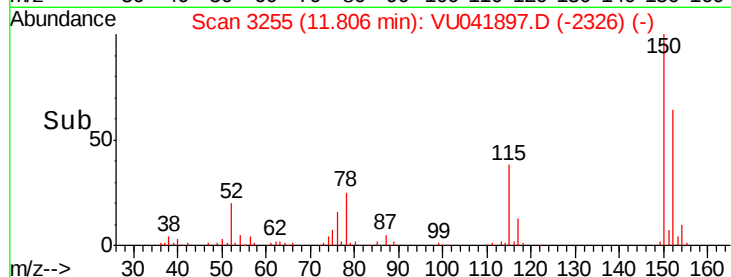
2000

1000

0

11.75 11.80 11.85

Time-->



#62

1,3-Dichlorobenzene

Concen: 0.060 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. 0.09 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

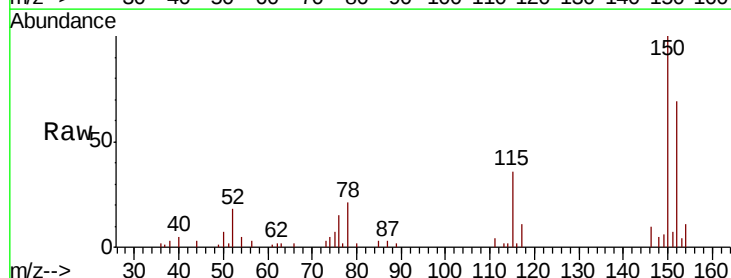
Tgt Ion: 146 Resp: 1112

Ion Ratio Lower Upper

146 100

111 44.6 30.0 55.8

148 53.1 44.9 83.3



Abundance Ion 145.95 (145.65 to 146.65): VU041892.D (-3221) (-)

Ion 111.00 (110.70 to 111.70): VU041892.D (-3221) (-)

Ion 148.00 (147.70 to 148.70): VU041892.D (-3221) (-)

11.83

1200

1000

800

600

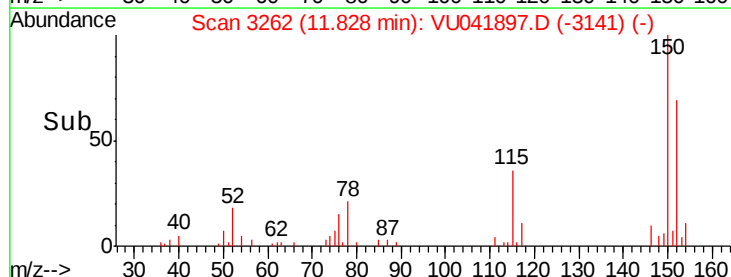
400

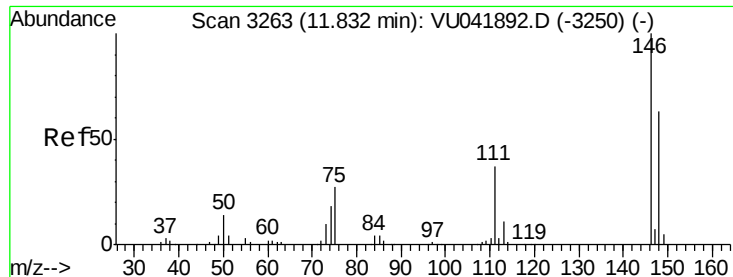
200

0

11.80 11.85

Time-->





#63

1,4-Dichlorobenzene

Concen: 0.060 ug/L

RT: 11.83 min Scan# 3262

Delta R.T. -0.00 min

Lab File: VU041897.D

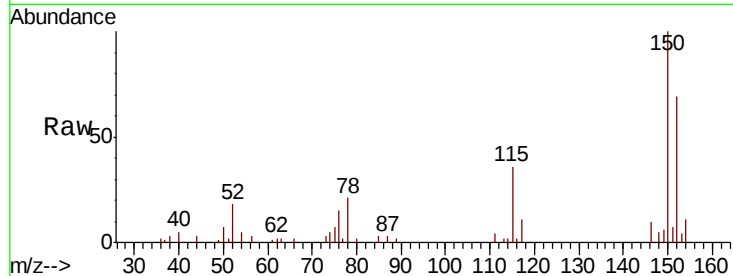
Acq: 08 Jan 2021 12:02

Instrument :

MSVOA_U

ClientSampled :

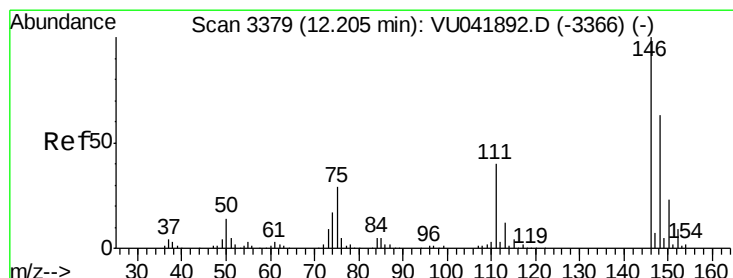
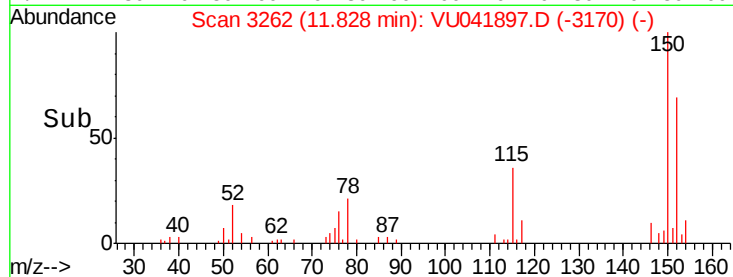
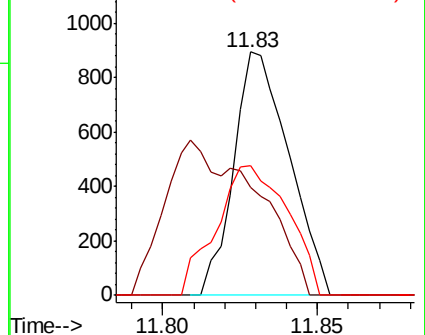
Tot Ion:146	Resp:	1112
Ion	Ratio	Lower Upper
146	100	
111	44.6	27.9 51.9
148	53.1	45.0 83.6



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: 0.063 ug/L

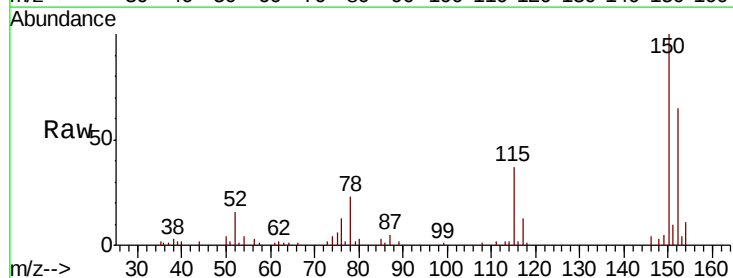
RT: 12.20 min Scan# 3379

Delta R.T. -0.00 min

Lab File: VU041897.D

Acq: 08 Jan 2021 12:02

Tgt Ion:146	Resp:	1150
Ion	Ratio	Lower Upper
146	100	
111	44.6	35.0 52.6
148	69.9	51.0 76.6



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

