

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041879.D
 Acq On : 07 Jan 2021 17:53
 Operator : SY/MD
 Sample : M1026-10
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 05:00:47 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jan 08 04:58:19 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	145099	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	141898	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	59928	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	44240	3.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.00%
7) Chloroethane-d5	1.92	69	45819	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.40%
11) 1,1-Dichloroethene-d2	2.58	63	70888	3.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.80%
20) 2-Butanone-d5	4.66	46	175199	53.77	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.54%
24) Chloroform-d	5.08	84	105309	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.40%
26) 1,2-Dichloroethane-d4	5.72	65	58760	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.60%
32) Benzene-d6	5.74	84	192041	4.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.60%
36) 1,2-Dichloropropane-d6	6.70	67	66716	5.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.80%
41) Toluene-d8	7.90	98	162662	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.80%
43) trans-1,3-Dichloropropene-	8.19	79	25423	4.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.80%
46) 2-Hexanone-d5	8.64	63	152795	48.79	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.58%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	59554	5.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	60684	5.69	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	113.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	12561	1.022	ug/L 94
3) Chloromethane	1.53	50	780	0.065	ug/L 88
9) Trichlorofluoromethane	2.15	101	4393659	263.237	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	84217	8.437	ug/L 96
12) 1,1-Dichloroethene	2.59	96	10862	1.104	ug/L # 48
13) Acetone	2.66	43	1433	0.691	ug/L 87
16) Methylene chloride	3.06	84	2623	0.223	ug/L 90
17) Methyl tert-butyl Ether	3.38	73	71148	2.709	ug/L 98
19) 1,1-Dichloroethane	3.89	63	59291	3.116	ug/L 96
22) cis-1,2-Dichloroethene	4.69	96	11166	0.992	ug/L 86
25) Chloroform	5.11	83	17193	0.897	ug/L 95
27) 1,2-Dichloroethane	5.81	62	832	0.064	ug/L # 73
29) 1,1,1-Trichloroethane	5.33	97	4036	0.248	ug/L 98
31) Carbon tetrachloride	5.54	117	6321	0.449	ug/L 99
34) Trichloroethene	6.55	95	330454	28.978	ug/L 98
35) Methylcyclohexane	6.70	83	15572	0.845	ug/L # 18
37) 1,2-Dichloropropane	6.70	63	6620	0.570	ug/L # 88

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
Data File : VU041879.D
Acq On : 07 Jan 2021 17:53
Operator : SY/MD
Sample : M1026-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jan 08 05:00:47 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jan 08 04:58:19 2021
Response via : Initial Calibration

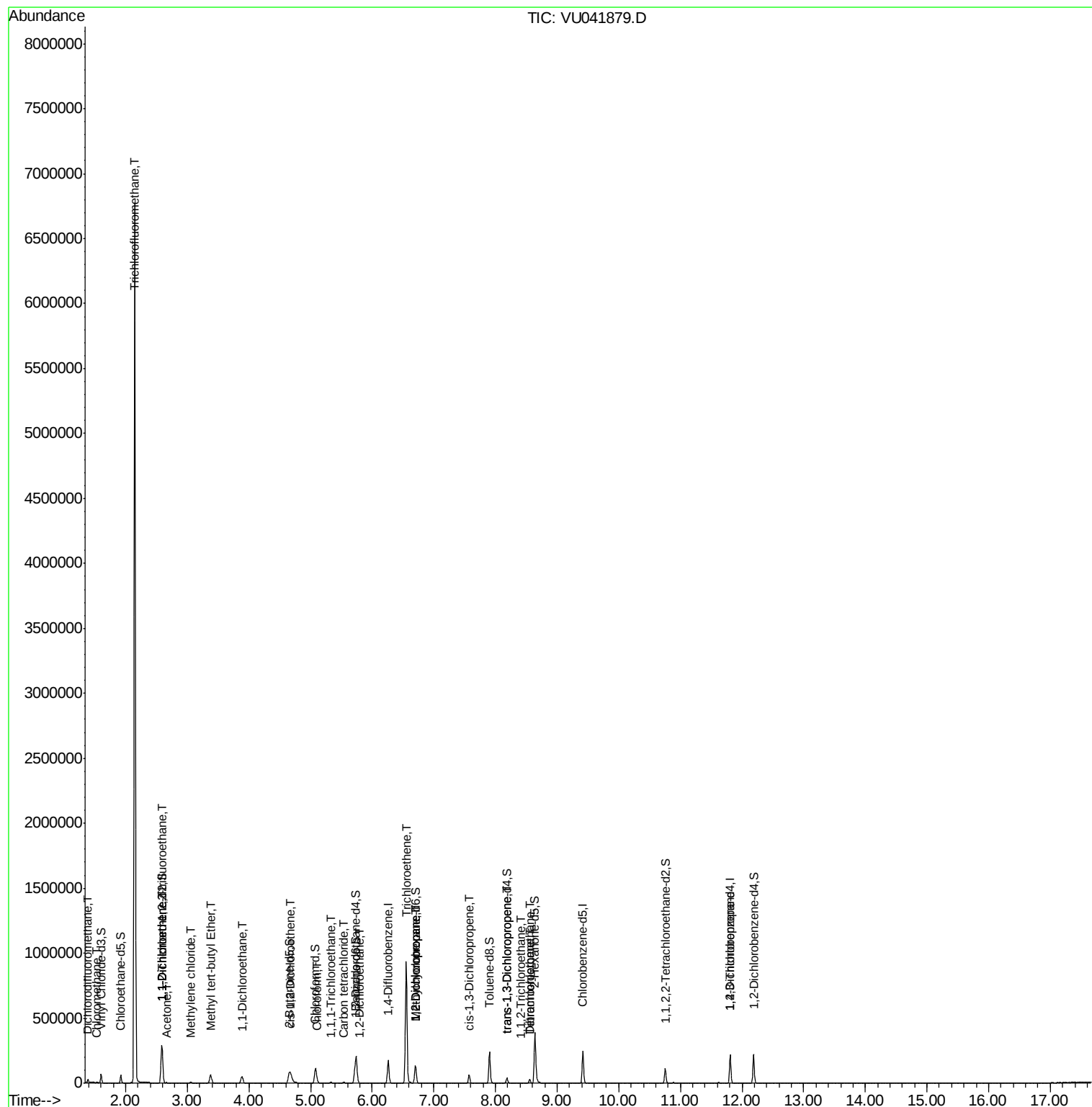
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	1551	0.090	ug/L #	75
44) trans-1,3-Dichloropropene	8.18	75	1084	0.070	ug/L #	70
45) 1,1,2-Trichloroethane	8.41	97	478	0.056	ug/L #	53
47) Tetrachloroethene	8.56	164	7109	0.891	ug/L	92
49) Dibromochloromethane	8.56	129	6700	0.679	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6987	0.801	ug/L	98

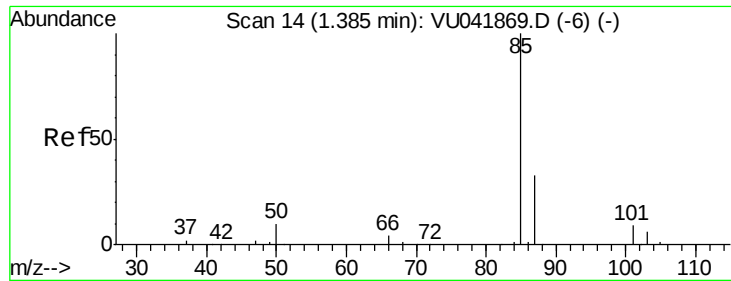
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
Data File : VU041879.D
Acq On : 07 Jan 2021 17:53
Operator : SY/MD
Sample : M1026-10
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jan 08 05:00:47 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jan 08 04:58:19 2021
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.022 ug/L

RT: 1.39 min Scan# 15

Delta R.T. 0.00 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

Instrument :

MSVOA_U

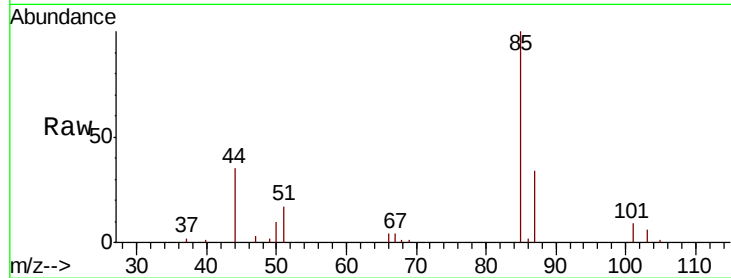
ClientSampleId :

Tot Ion: 85 Resp: 12561

Ion Ratio Lower Upper

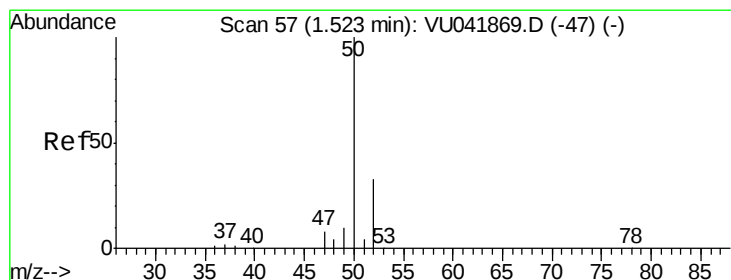
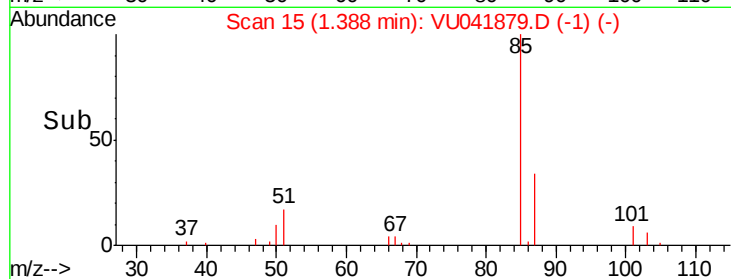
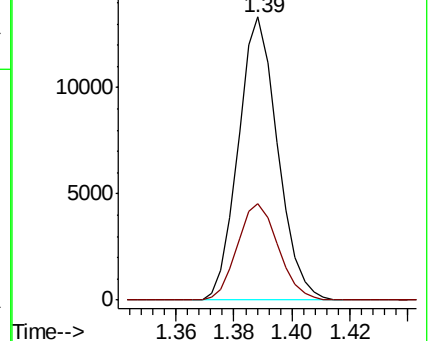
85 100

87 35.3 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.065 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041879.D

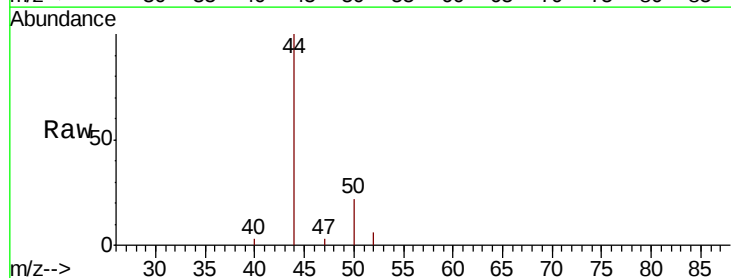
Acq: 07 Jan 2021 17:53

Tgt Ion: 50 Resp: 780

Ion Ratio Lower Upper

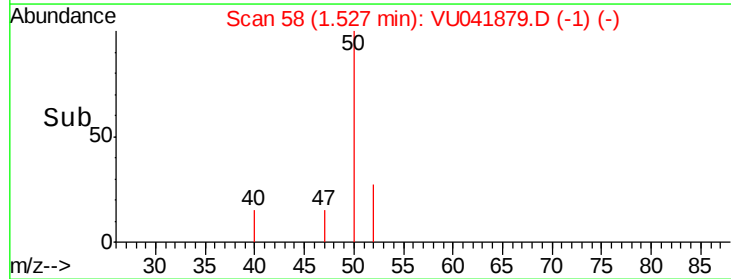
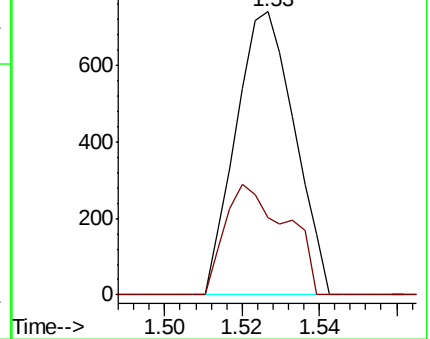
50 100

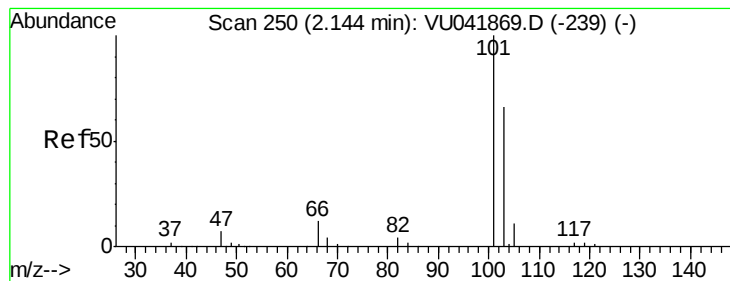
52 27.3 24.1 44.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



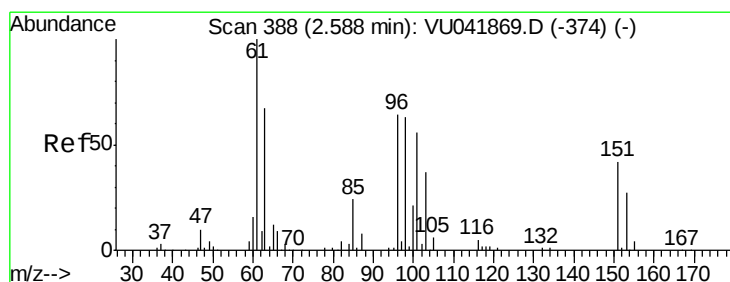
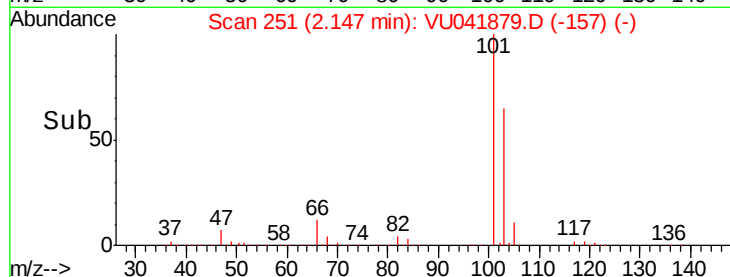
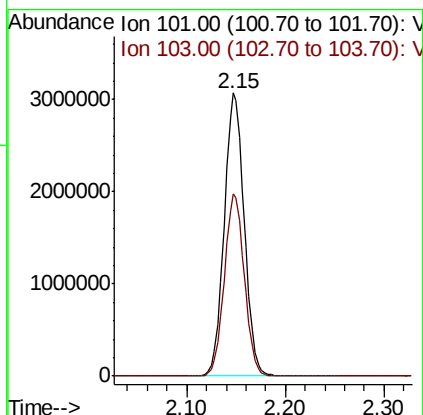
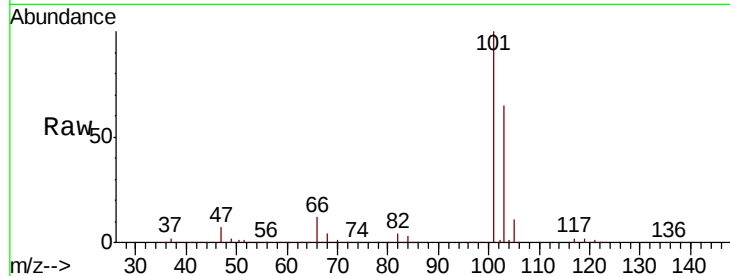


#9

Trichlorofluoromethane
Concen: 263.237 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU041879.D
Acq: 07 Jan 2021 17:53

Instrument :
MSVOA_U
ClientSampleId :

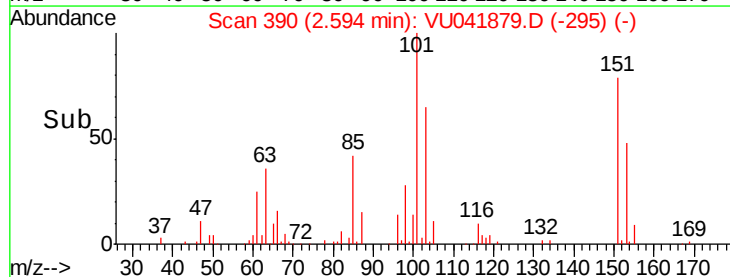
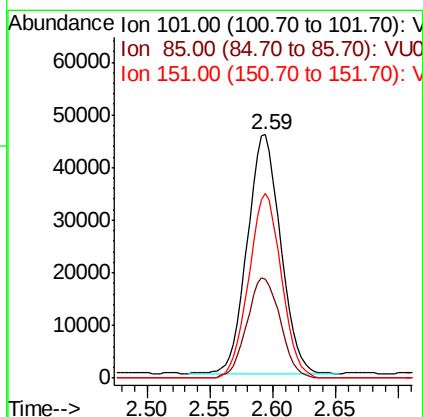
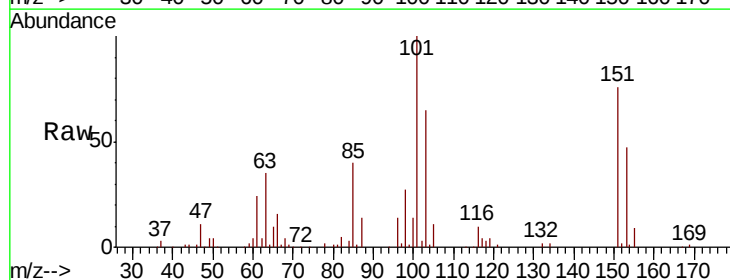
Tot Ion:101 Resp: 4393659
Ion Ratio Lower Upper
101 100
103 64.5 51.1 76.7

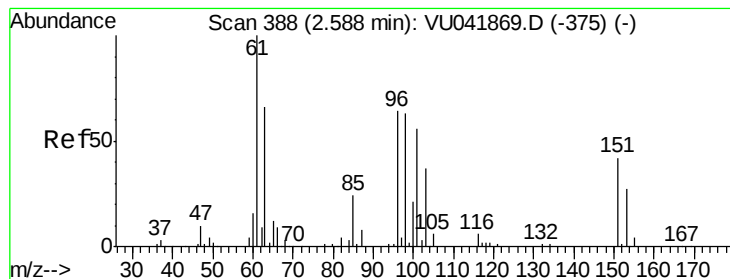


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 8.437 ug/L
RT: 2.59 min Scan# 390
Delta R.T. 0.01 min
Lab File: VU041879.D
Acq: 07 Jan 2021 17:53

Tgt Ion:101 Resp: 84217
Ion Ratio Lower Upper
101 100
85 42.0 33.6 50.4
151 75.6 56.2 84.4





#12

1,1-Dichloroethene

Concen: 1.104 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.01 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

Instrument :
MSVOA_U
ClientSampleId :

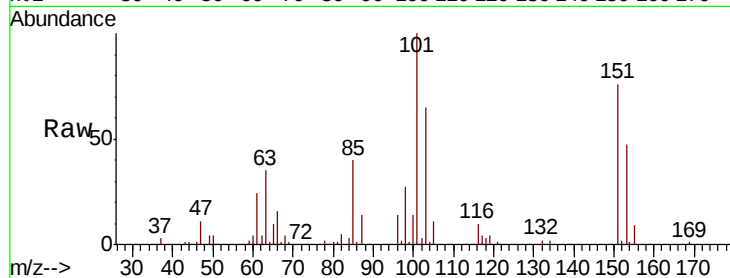
Tot Ion: 96 Resp: 10862

Ion Ratio Lower Upper

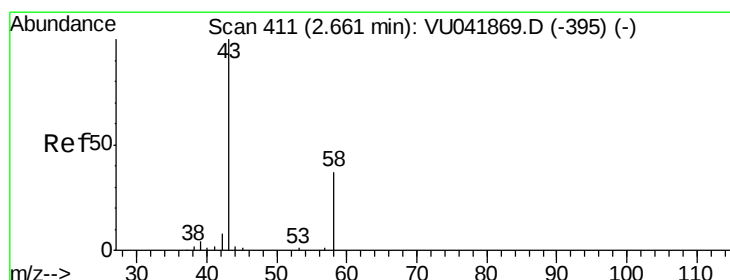
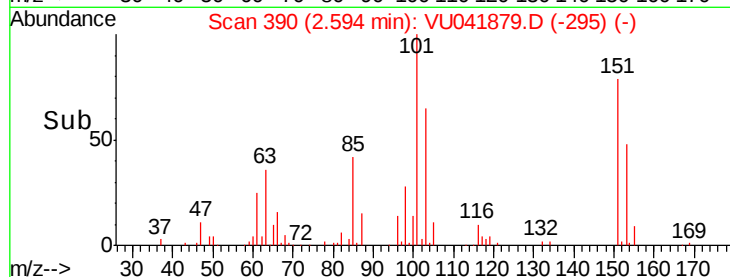
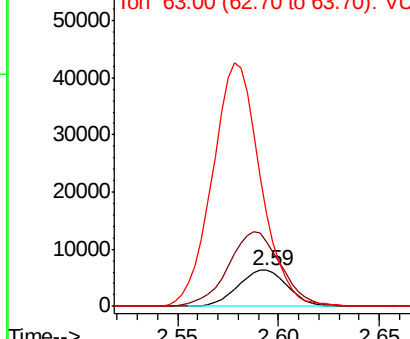
96 100

61 179.6 123.8 230.0

63 256.4 81.0 150.4#



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



#13

Acetone

Concen: 0.691 ug/L

RT: 2.66 min Scan# 411

Delta R.T. 0.00 min

Lab File: VU041879.D

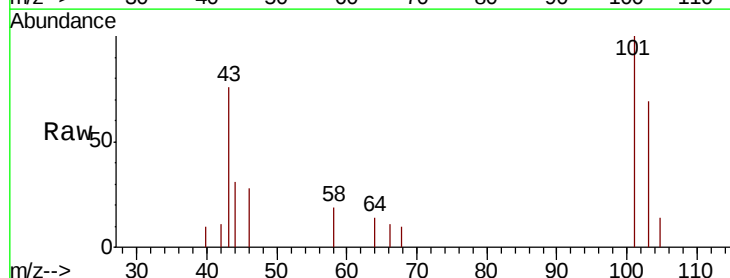
Acq: 07 Jan 2021 17:53

Tgt Ion: 43 Resp: 1433

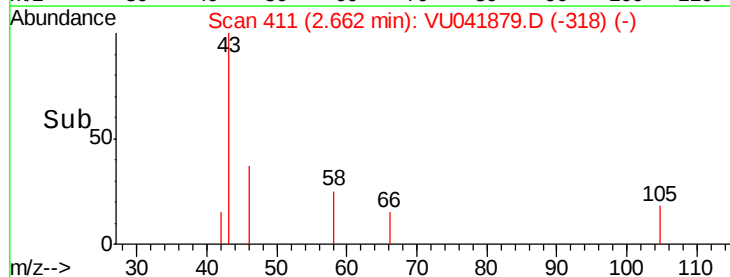
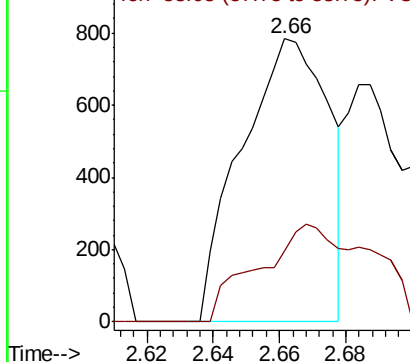
Ion Ratio Lower Upper

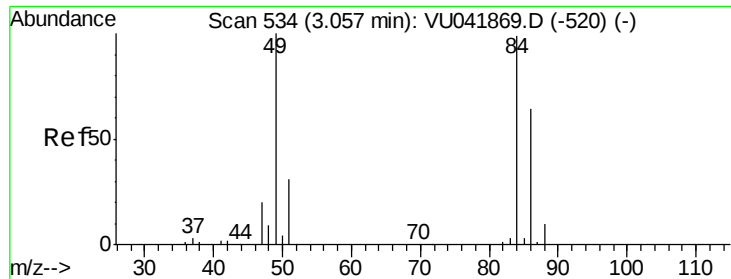
43 100

58 44.4 0.0 73.2



Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0

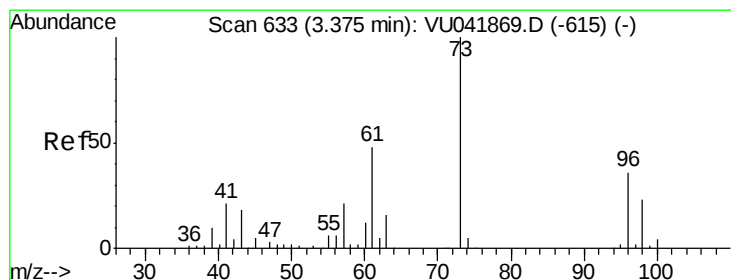
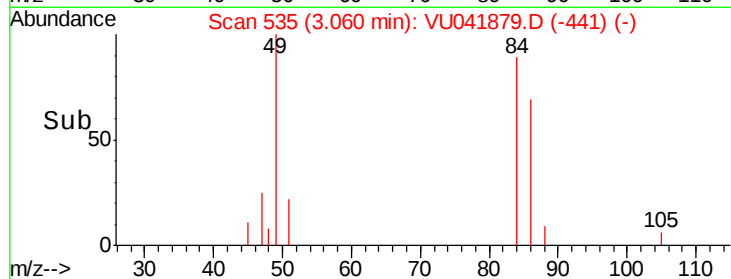
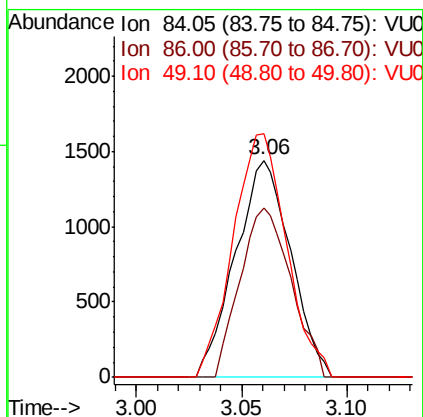
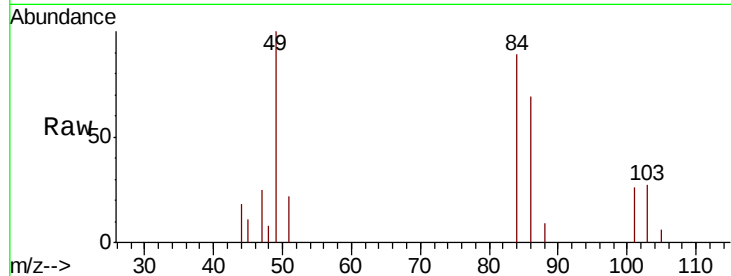




#16
Methvlene chloride
Concen: 0.223 ug/L
RT: 3.06 min Scan# 535
Delta R.T. 0.00 min
Lab File: VU041879.D
Acq: 07 Jan 2021 17:53

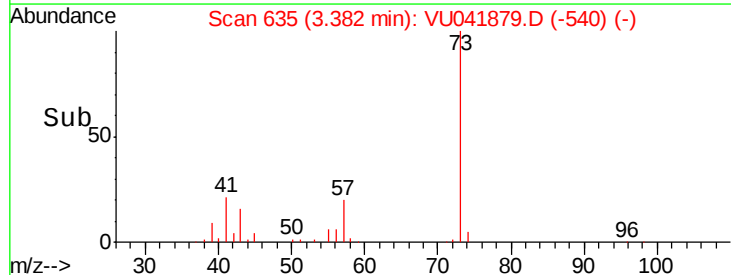
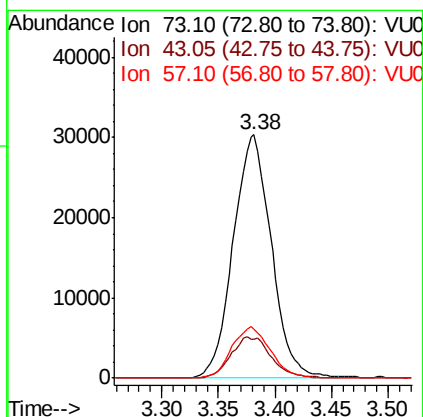
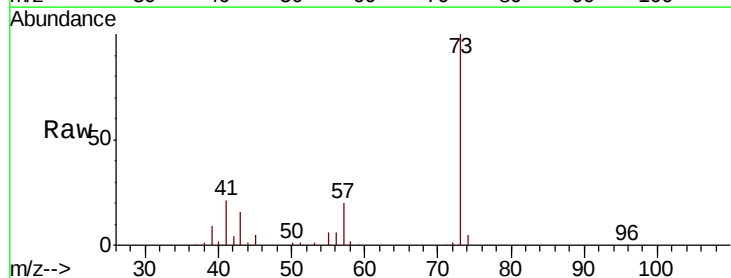
Instrument :
MSVOA_U
ClientSampleId :

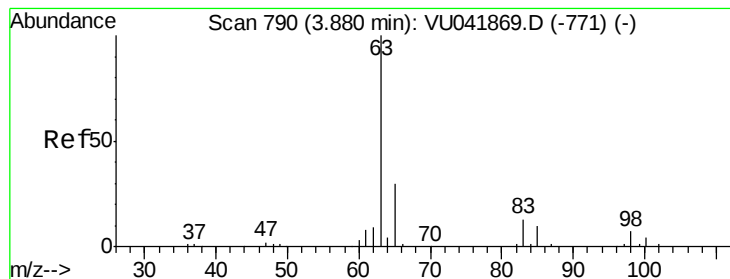
Tot Ion: 84 Resp: 2623
Ion Ratio Lower Upper
84 100
86 77.8 45.1 83.7
49 112.3 83.1 154.3



#17
Methyl tert-butyl Ether
Concen: 2.709 ug/L
RT: 3.38 min Scan# 635
Delta R.T. 0.01 min
Lab File: VU041879.D
Acq: 07 Jan 2021 17:53

Tgt Ion: 73 Resp: 71148
Ion Ratio Lower Upper
73 100
43 17.8 14.7 22.1
57 21.4 18.2 27.4





#19

1,1-Dichloroethane

Concen: 3.116 ug/L

RT: 3.89 min Scan# 792

Delta R.T. 0.01 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

Instrument :

MSVOA_U

ClientSampleId :

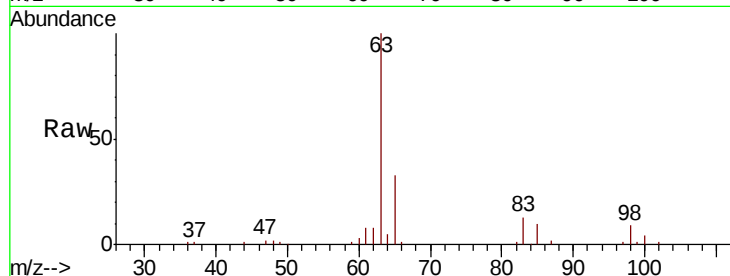
Tot Ion: 63 Resp: 59291

Ion Ratio Lower Upper

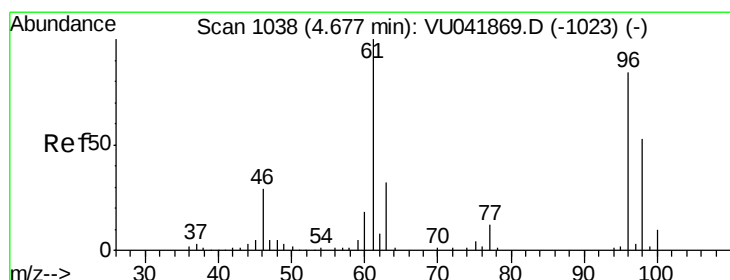
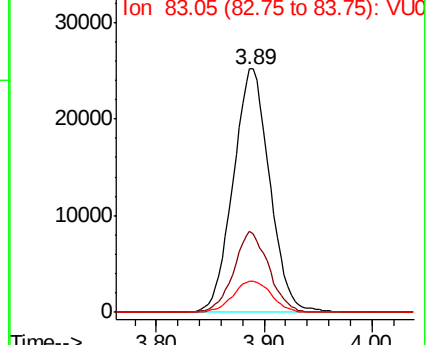
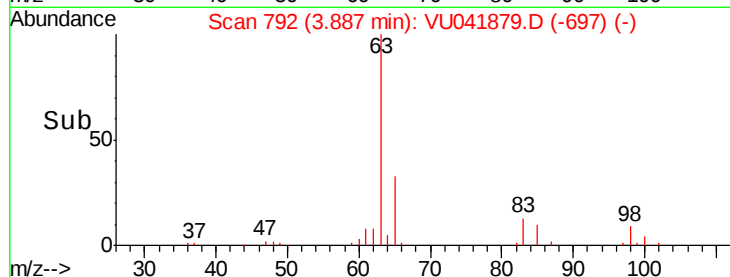
63 100

65 33.5 21.3 39.6

83 12.9 9.3 17.3



Abundance Ion 63.10 (62.80 to 63.80): VU041879.D (-697) (-)



#22

cis-1,2-Dichloroethene

Concen: 0.992 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.01 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

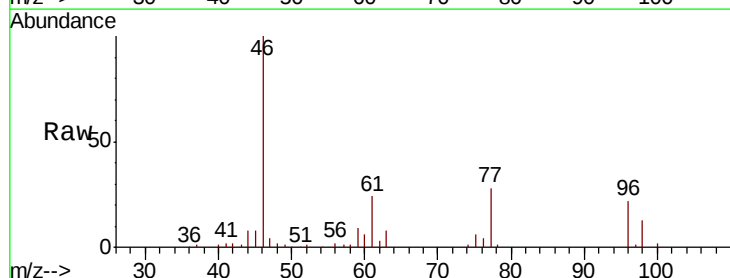
Tgt Ion: 96 Resp: 11166

Ion Ratio Lower Upper

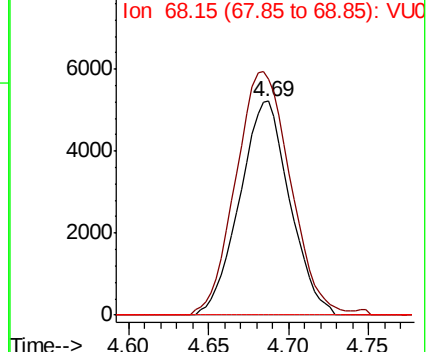
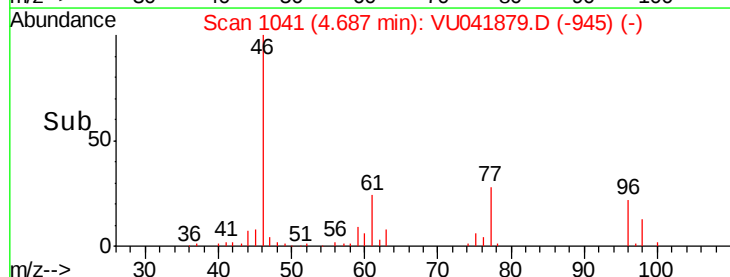
96 100

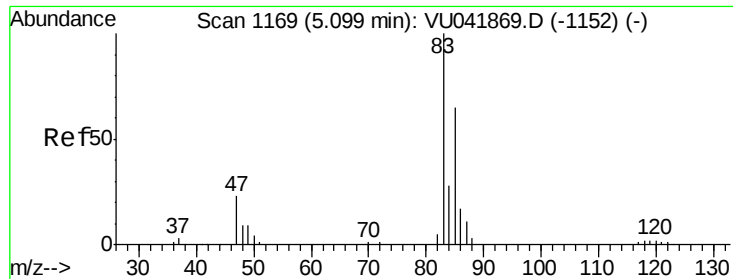
61 110.7 88.8 165.0

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041879.D (-945) (-)

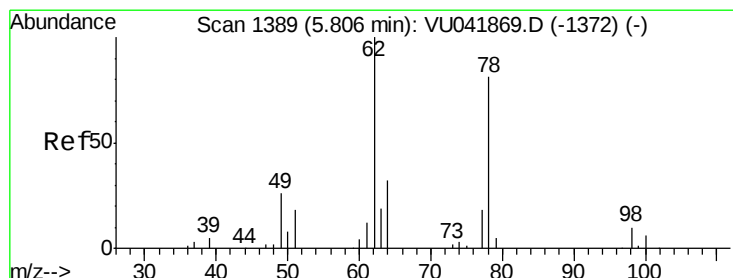
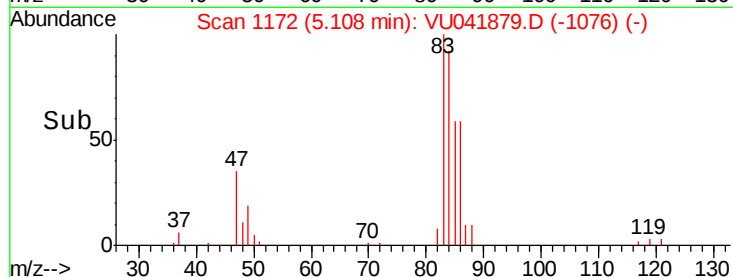
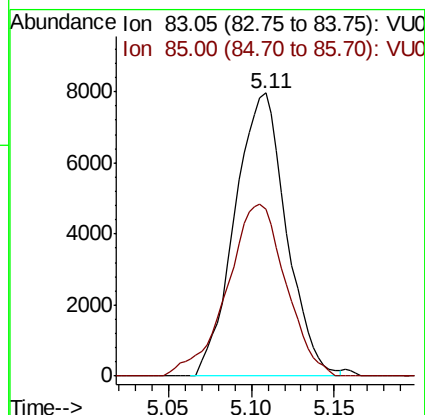
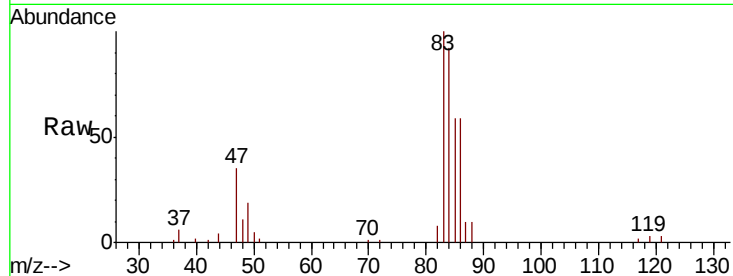




#25
Chloroform
Concen: 0.897 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.01 min
Lab File: VU041879.D
Acq: 07 Jan 2021 17:53

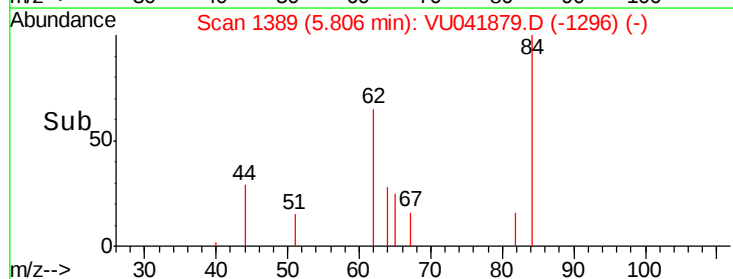
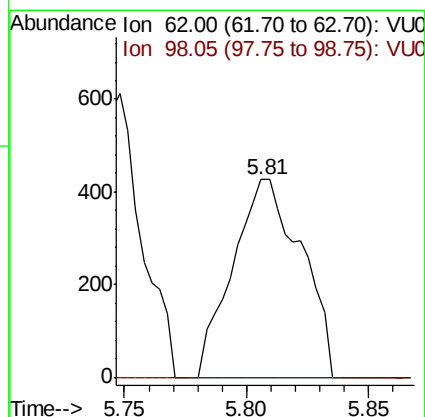
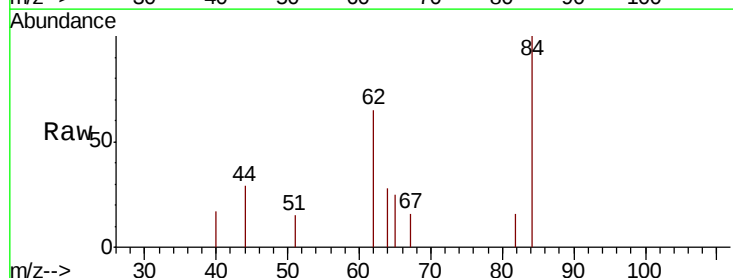
Instrument :
MSVOA_U
ClientSampled :

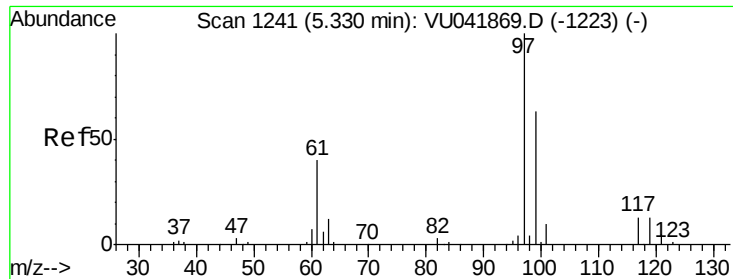
Tot Ion: 83 Resp: 17193
Ion Ratio Lower Upper
83 100
85 59.0 44.2 82.0



#27
1,2-Dichloroethane
Concen: 0.064 ug/L
RT: 5.81 min Scan# 1389
Delta R.T. 0.00 min
Lab File: VU041879.D
Acq: 07 Jan 2021 17:53

Tgt Ion: 62 Resp: 832
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#

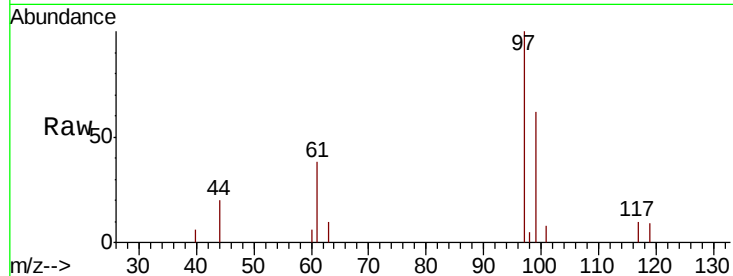




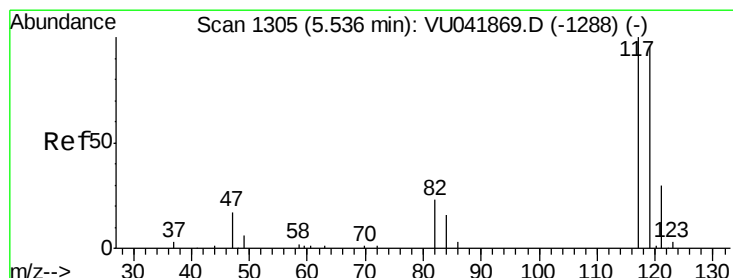
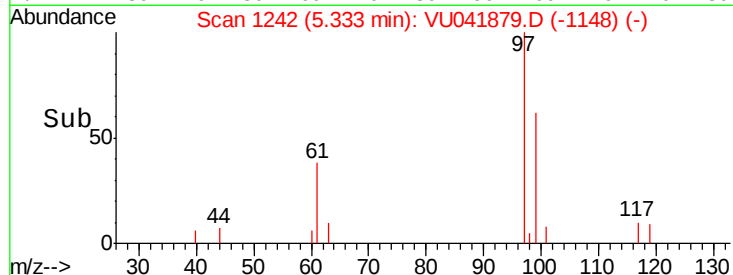
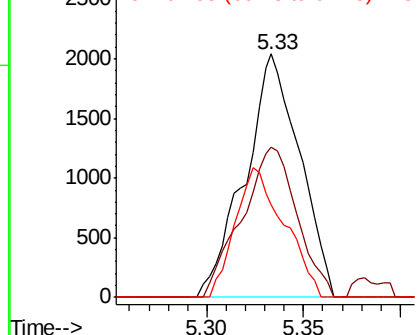
#29
 1,1,1-Trichloroethane
 Concen: 0.248 ug/L
 RT: 5.33 min Scan# 1242
 Delta R.T. 0.00 min
 Lab File: VU041879.D
 Acq: 07 Jan 2021 17:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 97 Resp: 4036
 Ion Ratio Lower Upper
 97 100
 99 62.2 51.3 76.9
 61 47.2 36.5 54.7

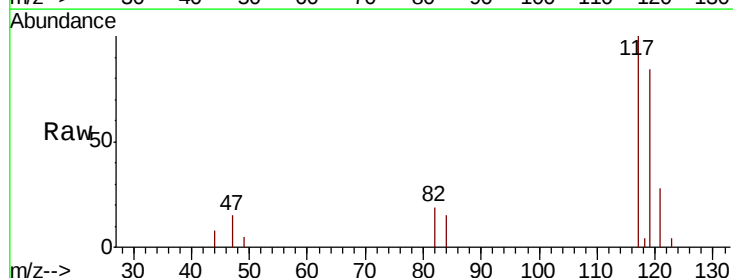


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

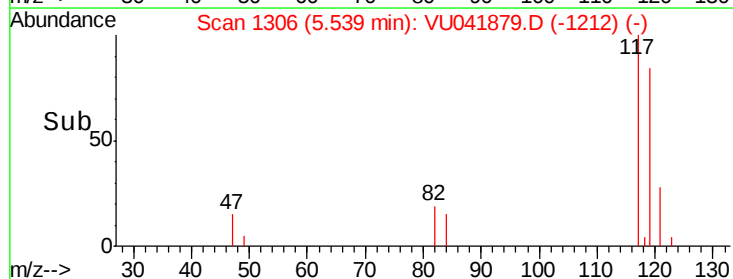
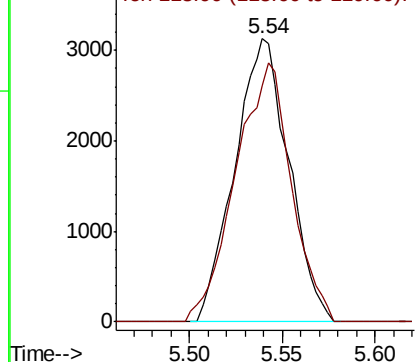


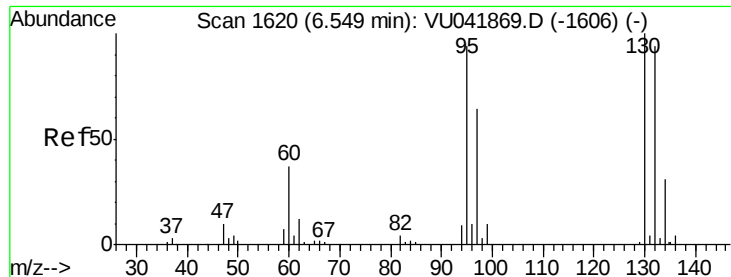
#31
 Carbon tetrachloride
 Concen: 0.449 ug/L
 RT: 5.54 min Scan# 1306
 Delta R.T. 0.00 min
 Lab File: VU041879.D
 Acq: 07 Jan 2021 17:53

Tgt Ion: 117 Resp: 6321
 Ion Ratio Lower Upper
 117 100
 119 94.5 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: 28.978 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 95 Resp: 330454

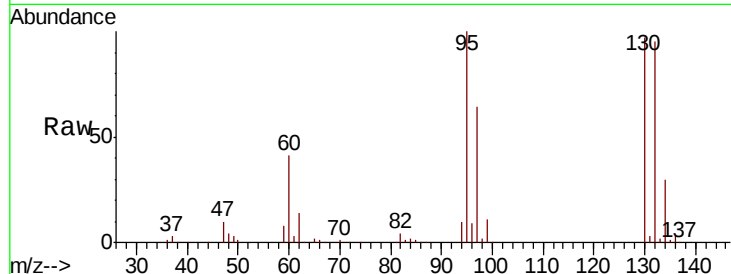
Ion Ratio Lower Upper

95 100

97 64.1 43.9 81.5

132 94.6 63.1 117.3

130 96.7 67.4 125.2

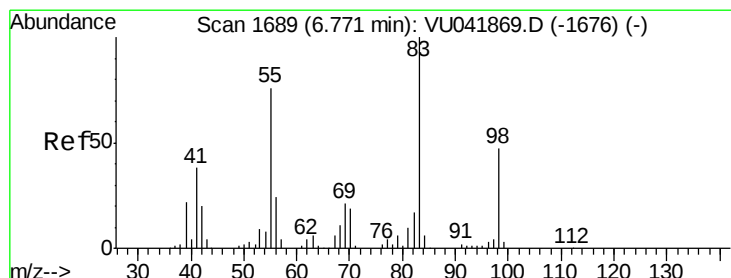
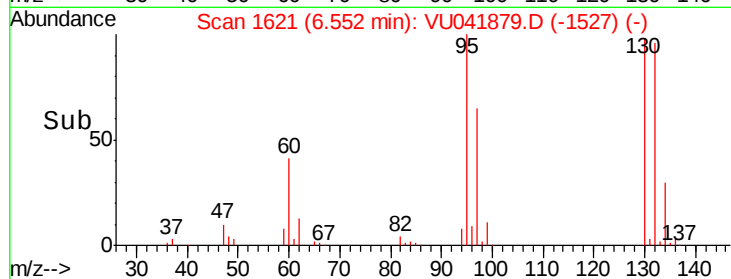
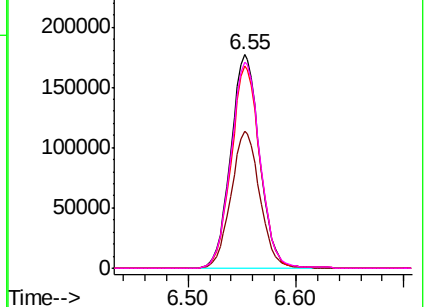


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 0.845 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

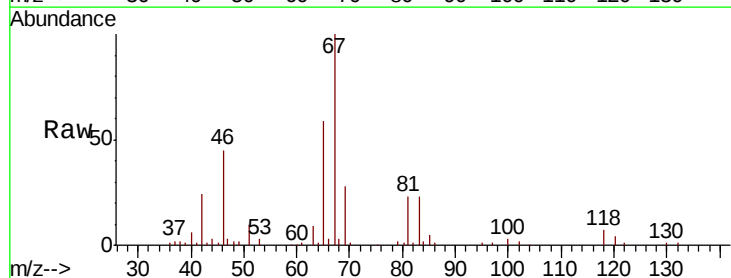
Tgt Ion: 83 Resp: 15572

Ion Ratio Lower Upper

83 100

55 0.0 61.2 91.8#

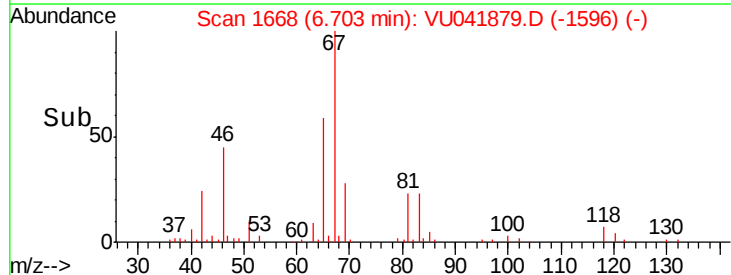
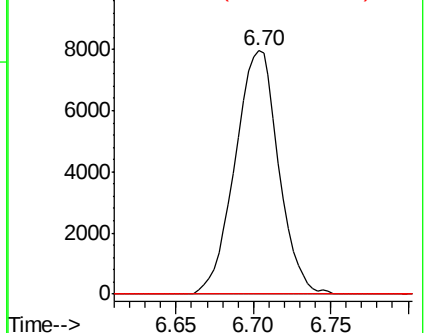
98 0.0 36.6 54.8#

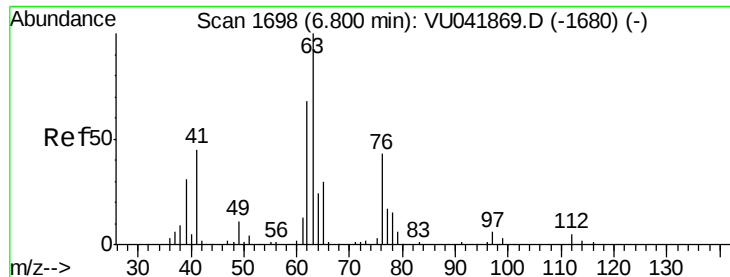


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

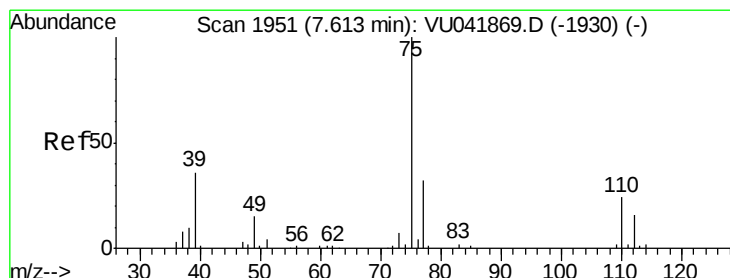
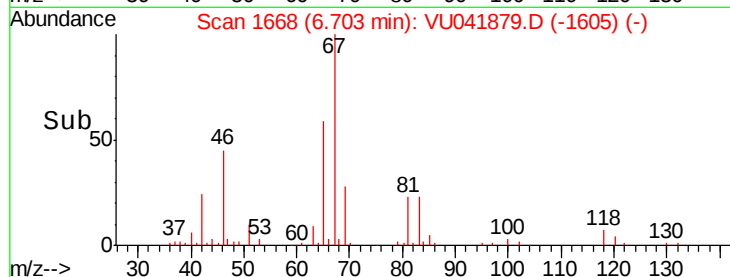
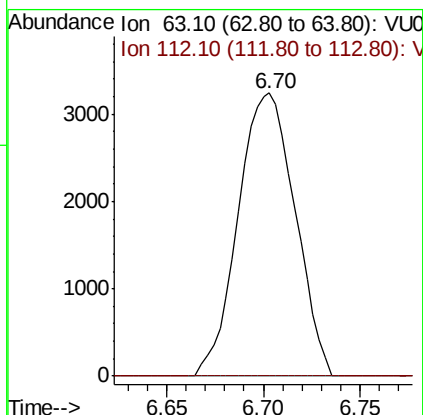
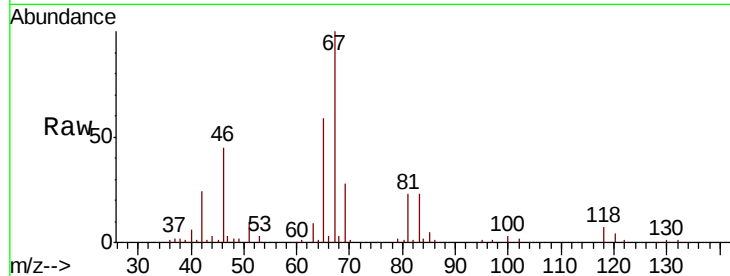




#37
 1,2-Dichloropropane
 Concen: 0.570 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.10 min
 Lab File: VU041879.D
 Acq: 07 Jan 2021 17:53

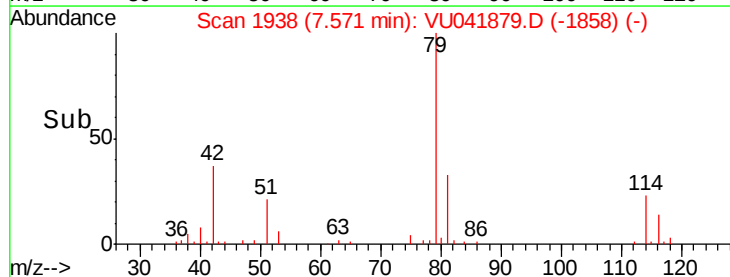
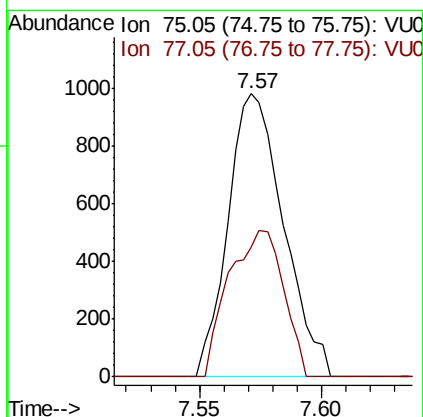
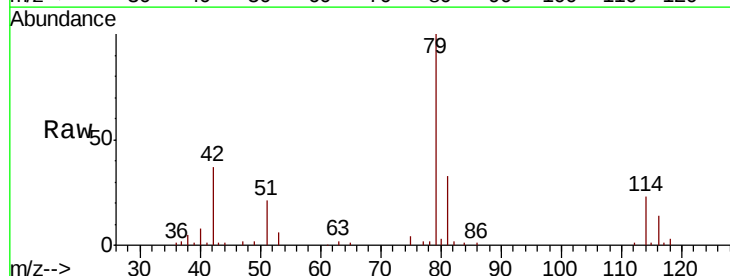
Instrument :
 MSVOA_U
 ClientSampled :

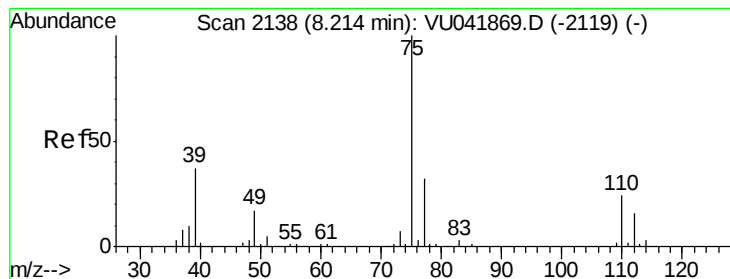
Tot Ion: 63 Resp: 6620
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.090 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041879.D
 Acq: 07 Jan 2021 17:53

Tgt Ion: 75 Resp: 1551
 Ion Ratio Lower Upper
 75 100
 77 45.7 22.3 41.3#





#44

trans-1,3-Dichloropropene

Concen: 0.070 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

Instrument :

MSVOA_U

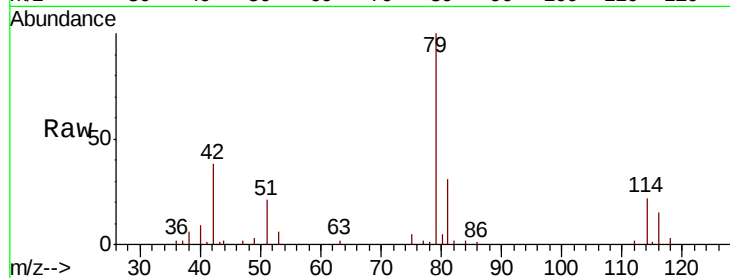
ClientSampleId :

Tot Ion: 75 Resp: 1084

Ion Ratio Lower Upper

75 100

77 51.3 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

800

600

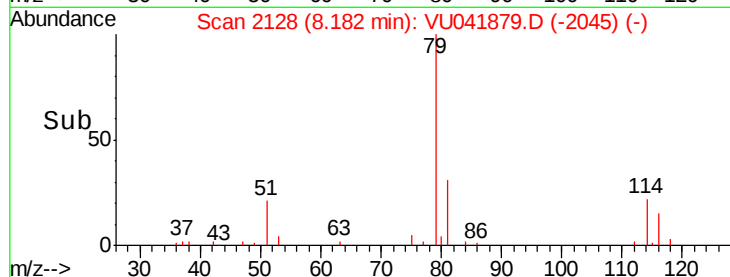
400

200

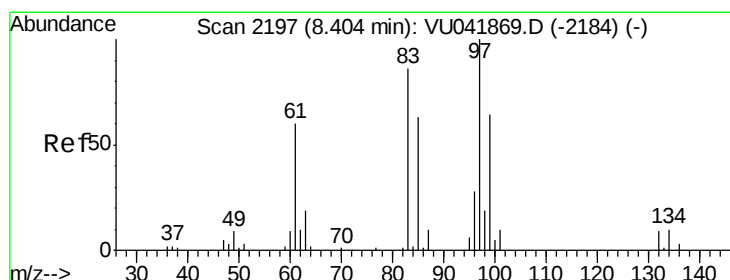
0

8.14 8.16 8.18 8.20 8.22

8.18



Time-->



#45

1,1,2-Trichloroethane

Concen: 0.056 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

Tgt Ion: 97 Resp: 478

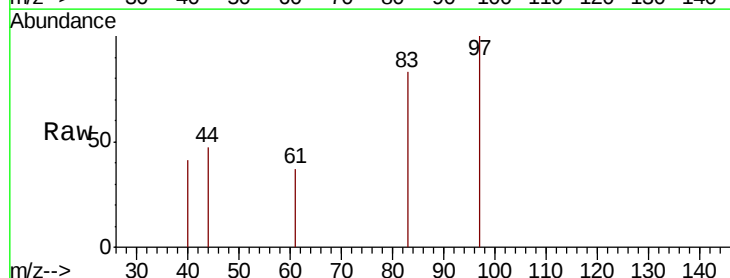
Ion Ratio Lower Upper

97 100

99 0.0 42.1 78.3#

83 83.2 62.6 116.2

85 0.0 39.1 72.7#



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

500

400

300

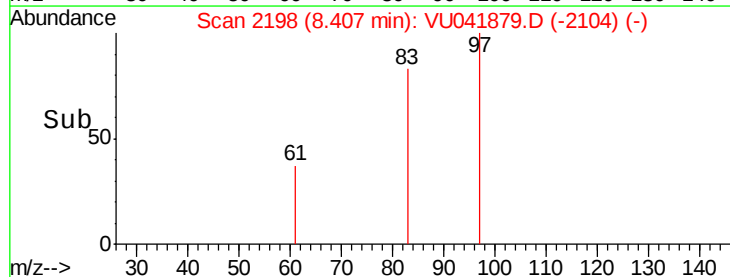
200

100

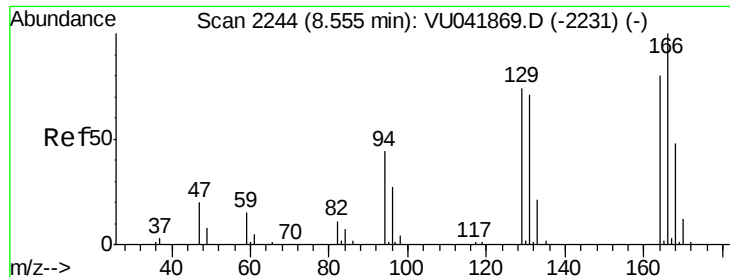
0

8.38 8.40 8.42 8.44

8.41



Time-->



#47

Tetrachloroethene

Concen: 0.891 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 7109

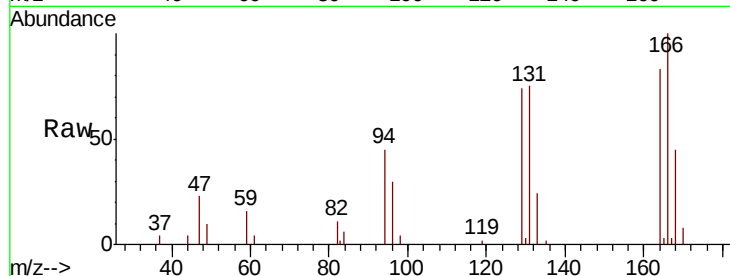
Ion Ratio Lower Upper

164 100

129 89.0 72.2 134.0

131 90.6 66.9 124.3

166 120.4 89.6 166.4

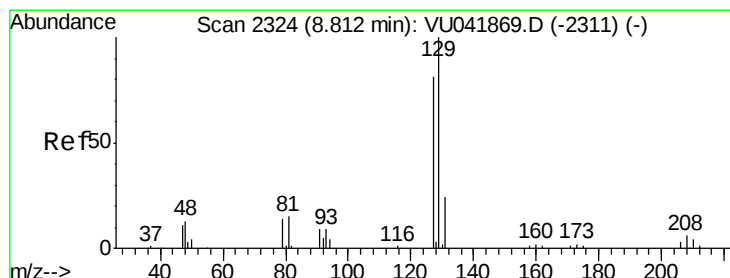
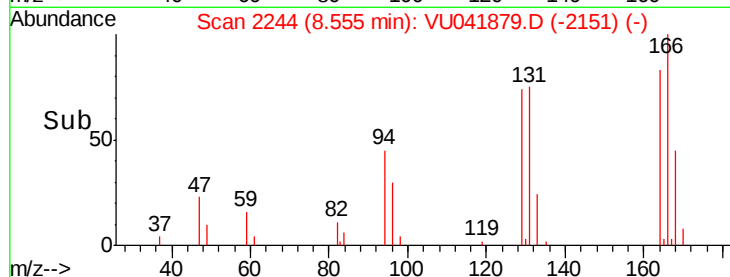
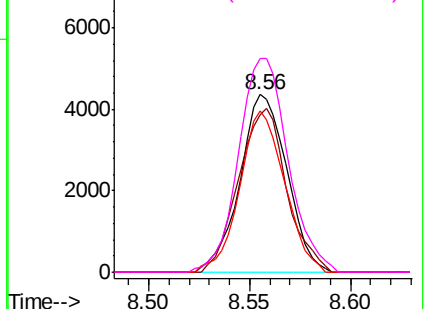


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.679 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041879.D

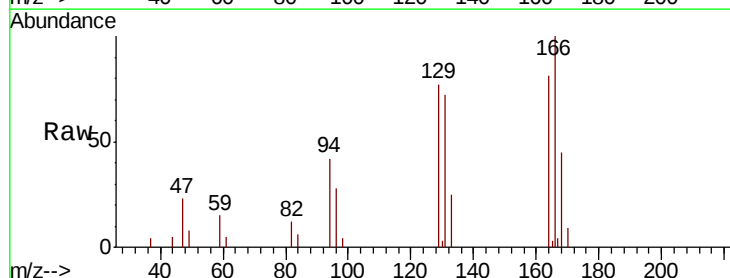
Acq: 07 Jan 2021 17:53

Tgt Ion:129 Resp: 6700

Ion Ratio Lower Upper

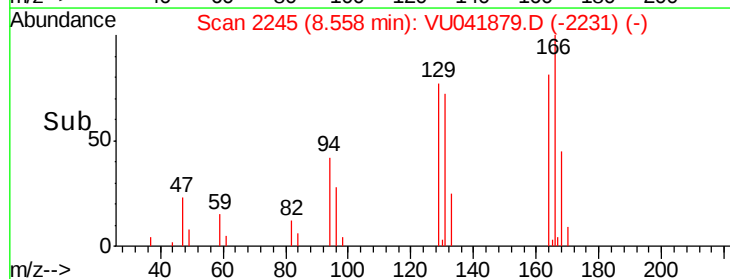
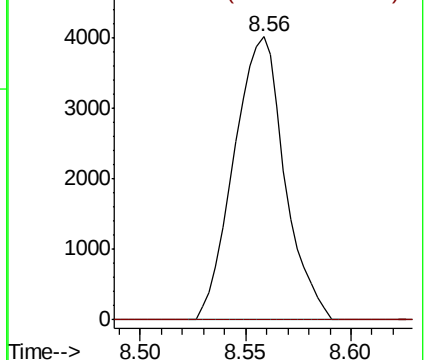
129 100

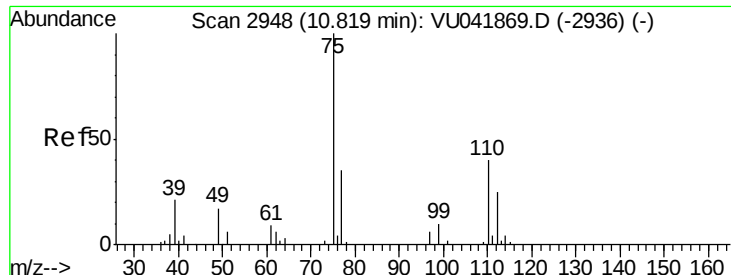
127 0.0 54.7 101.7#



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: 0.801 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041879.D

Acq: 07 Jan 2021 17:53

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 6987

Ion Ratio Lower Upper

75 100

77 31.7 26.2 39.2

