

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
 Data File : VU041957.D
 Acq On : 12 Jan 2021 06:11
 Operator : SY/MD
 Sample : M1027-20
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXN8

Quant Time: Jan 12 07:34:56 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR011121WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 12 05:50:11 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	116062	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	105408	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	44846	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	48327	4.94	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.80%
7) Chloroethane-d5	1.92	69	47567	5.25	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.00%
11) 1,1-Dichloroethene-d2	2.58	63	74427	4.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.20%
20) 2-Butanone-d5	4.66	46	185659	68.29	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	136.58%#
24) Chloroform-d	5.08	84	97538	5.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	109.40%
26) 1,2-Dichloroethane-d4	5.72	65	57811	6.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	123.00%
32) Benzene-d6	5.74	84	188711	6.06	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	121.20%
36) 1,2-Dichloropropane-d6	6.70	67	58339	5.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	119.20%
41) Toluene-d8	7.90	98	146407	5.18	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.60%
43) trans-1,3-Dichloropropene-	8.19	79	23321	5.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	114.20%
46) 2-Hexanone-d5	8.64	63	143815	69.61	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	139.22%#
57) 1,1,2,2-Tetrachloroethane-	10.75	84	52344	6.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	120.80%#
64) 1,2-Dichlorobenzene-d4	12.19	152	48336	5.70	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	114.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	961	0.086 ug/L	92
3) Chloromethane	1.52	50	627	0.051 ug/L	88
8) Chloroethane	1.93	64	327	0.040 ug/L #	43
9) Trichlorofluoromethane	2.15	101	19874	1.162 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.59	101	1646	0.177 ug/L #	73
12) 1,1-Dichloroethene	2.59	96	1483	0.164 ug/L #	1
13) Acetone	2.67	43	1980	1.121 ug/L	71
17) Methyl tert-butyl Ether	3.38	73	8208	0.378 ug/L	96
19) 1,1-Dichloroethane	3.89	63	1399	0.085 ug/L #	85
22) cis-1,2-Dichloroethene	4.68	96	10865	1.157 ug/L	87
25) Chloroform	5.11	83	3972	0.231 ug/L #	60
31) Carbon tetrachloride	5.54	117	2890	0.243 ug/L	94
34) Trichloroethene	6.55	95	309916	34.753 ug/L	95
35) Methylcyclohexane	6.70	83	13343	1.018 ug/L #	17
37) 1,2-Dichloropropane	6.70	63	6643	0.784 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1345	0.108 ug/L #	67
44) trans-1,3-Dichloropropene	8.19	75	1091	0.099 ug/L #	79

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Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Jan 12 05:50:11 2021
Response via : Initial Calibration

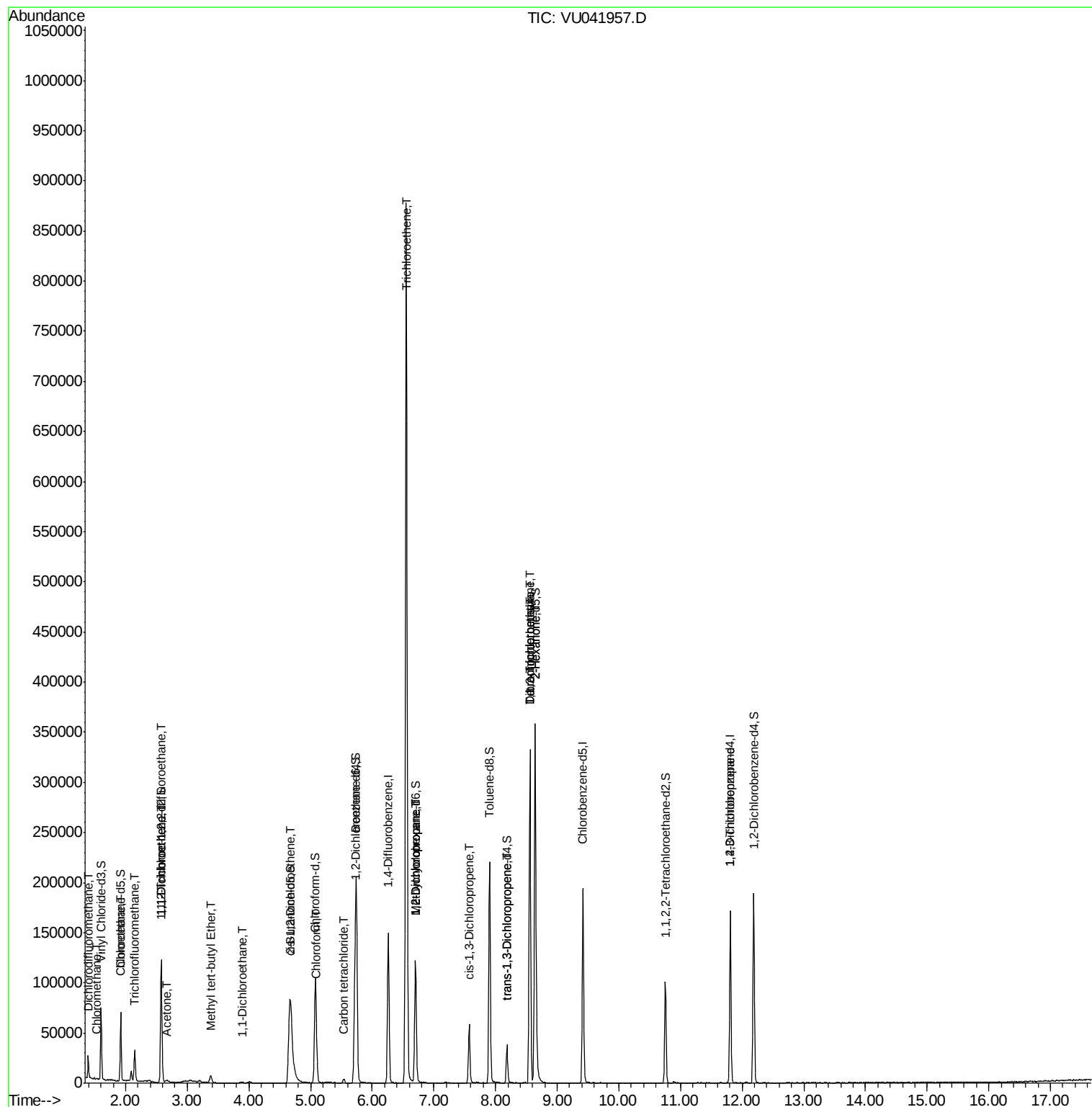
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	8.55	97	643	0.099	ug/L #	23
47) Tetrachloroethene	8.56	164	69614	11.219	ug/L	97
48) 2-Hexanone	8.64	43	17296	4.362	ug/L #	69
49) Dibromochloromethane	8.56	129	69645	8.811	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5033	0.813	ug/L	99

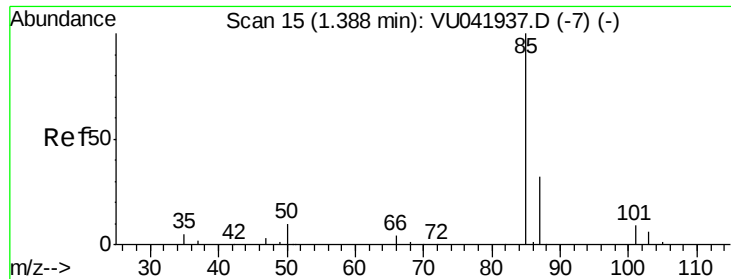
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.086 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Instrument :

MSVOA_U

ClientSampleId :

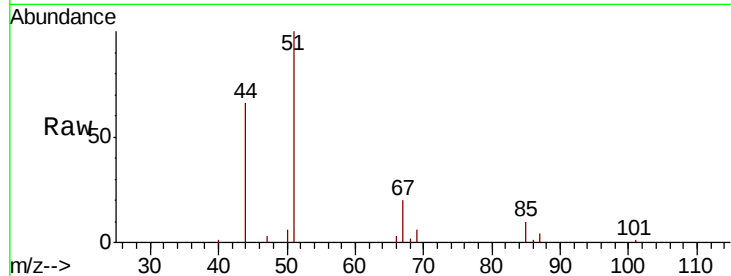
BFXN8

Tot Ion: 85 Resp: 961

Ion Ratio Lower Upper

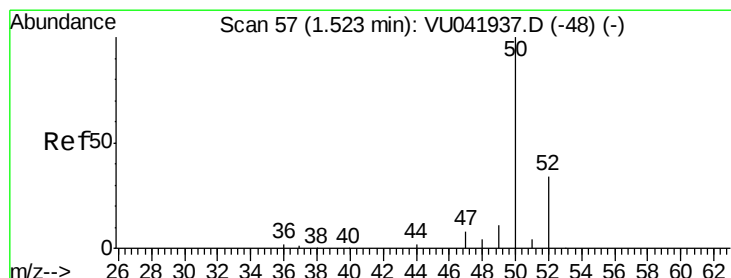
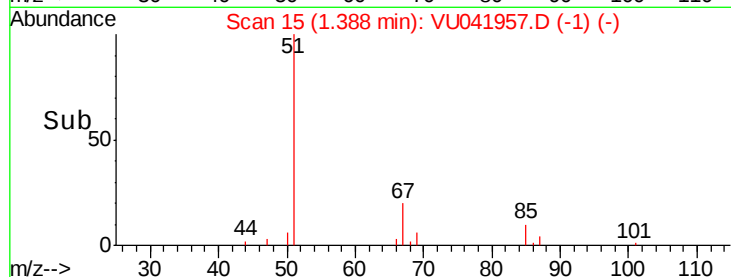
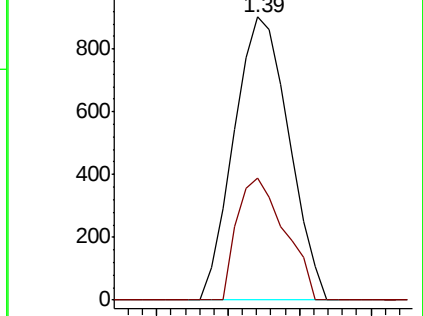
85 100

87 37.5 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.051 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041957.D

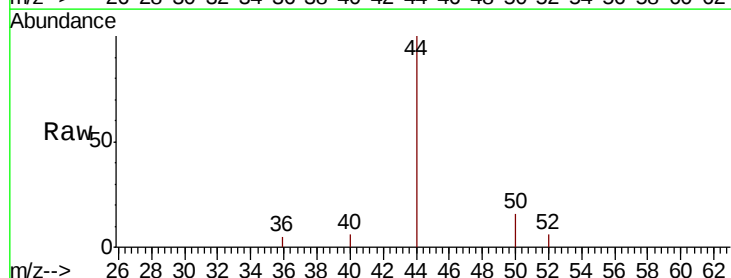
Acq: 12 Jan 2021 06:11

Tgt Ion: 50 Resp: 627

Ion Ratio Lower Upper

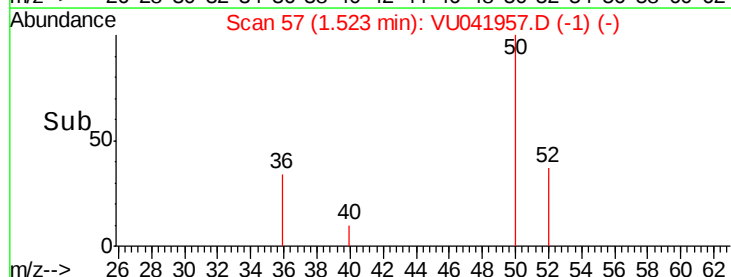
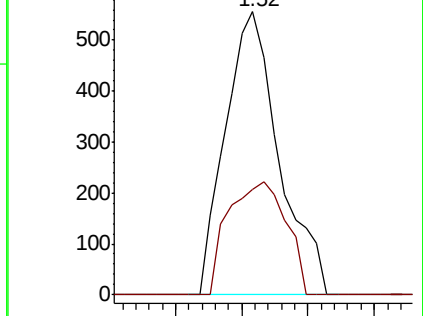
50 100

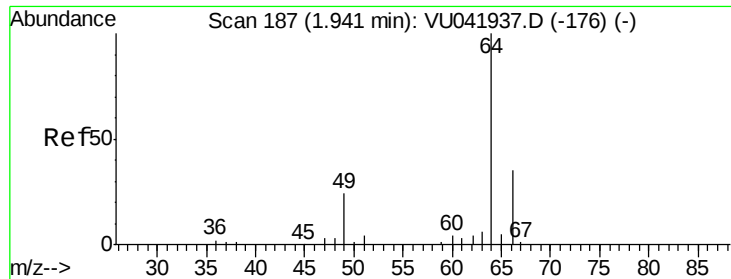
52 37.2 21.4 39.8



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#8

Chloroethane

Concen: 0.040 ug/L

RT: 1.93 min Scan# 185

Delta R.T. -0.01 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Instrument :

MSVOA_U

ClientSampleId :

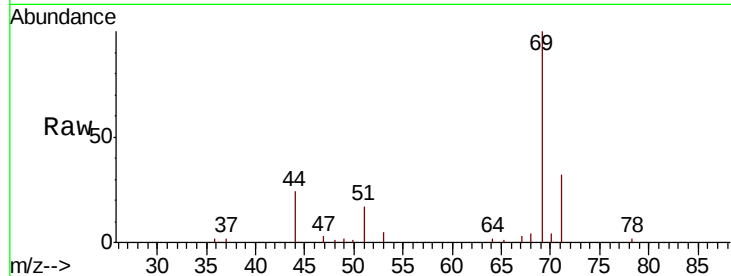
BFXN8

Tot Ion: 64 Resp: 327

Ion Ratio Lower Upper

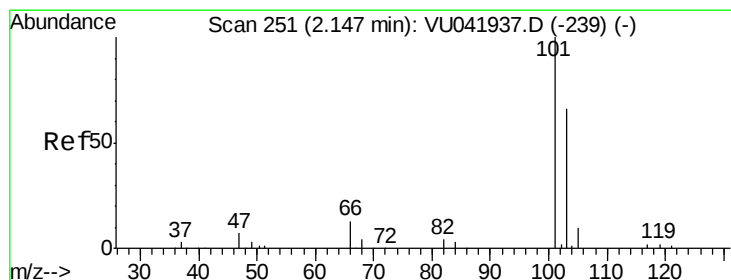
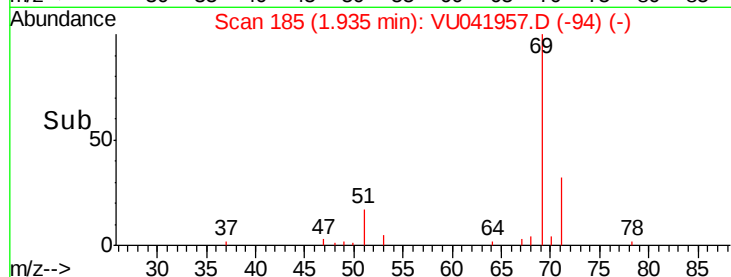
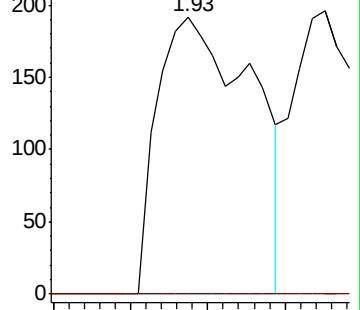
64 100

66 0.0 22.1 41.1#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#9

Trichlorofluoromethane

Concen: 1.162 ug/L

RT: 2.15 min Scan# 251

Delta R.T. -0.00 min

Lab File: VU041957.D

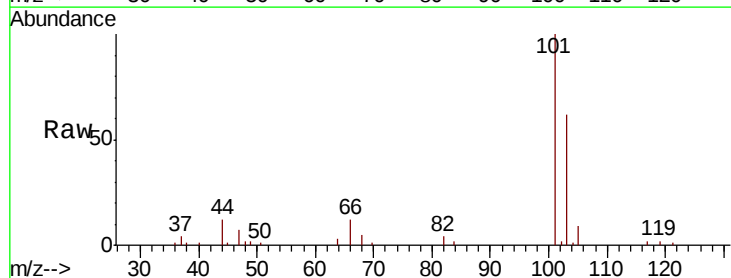
Acq: 12 Jan 2021 06:11

Tgt Ion:101 Resp: 19874

Ion Ratio Lower Upper

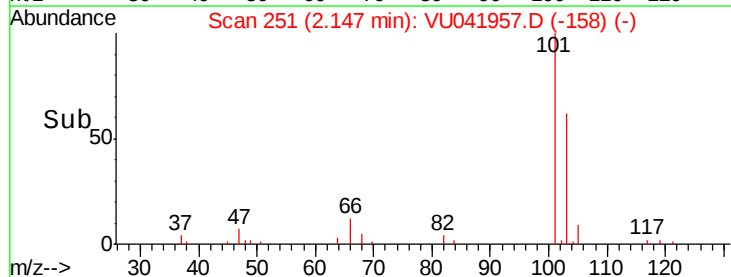
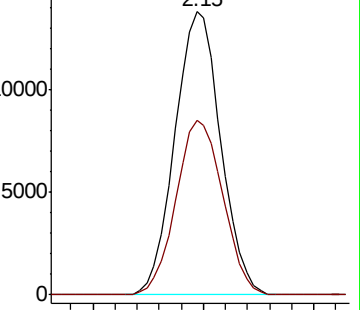
101 100

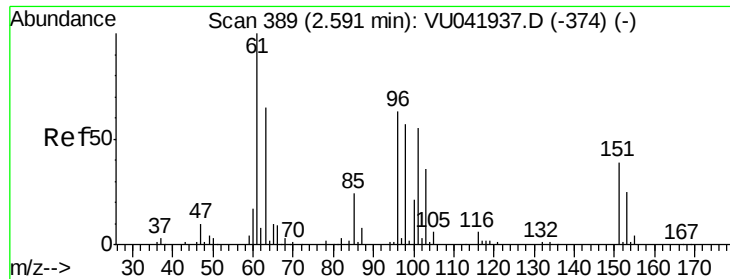
103 63.1 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 0.177 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

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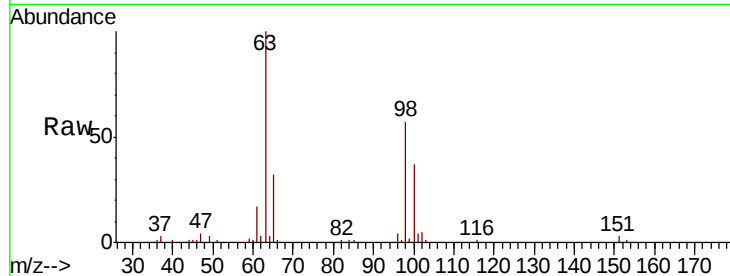
Tot Ion:101 Resp: 1646

Ion Ratio Lower Upper

101 100

85 26.0 35.1 52.7#

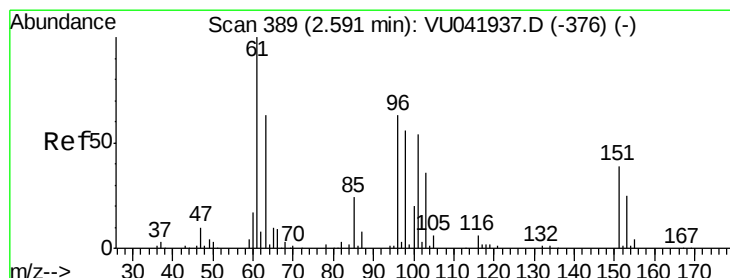
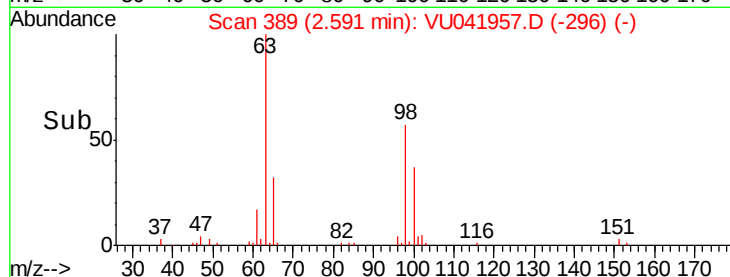
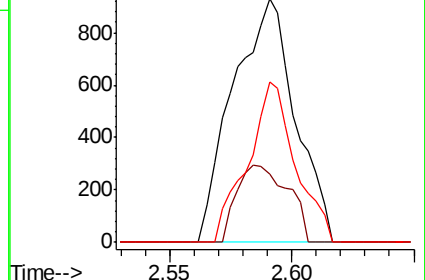
151 50.1 58.2 87.2#



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: 0.164 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

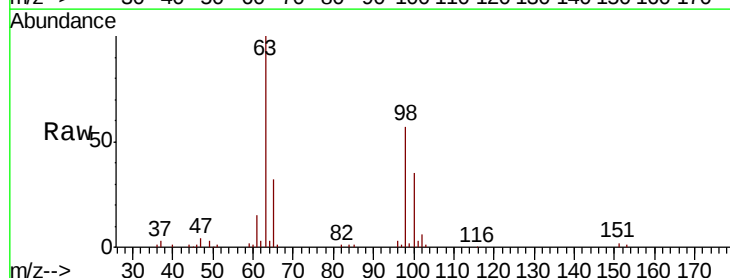
Tgt Ion: 96 Resp: 1483

Ion Ratio Lower Upper

96 100

61 485.6 123.5 229.4#

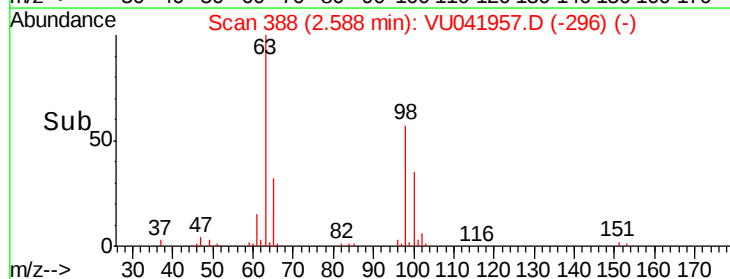
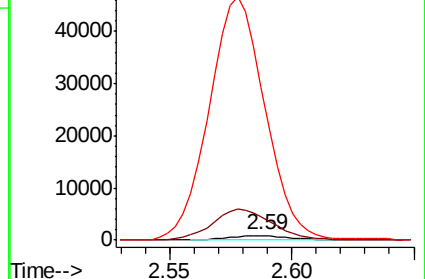
63 3189.5 93.5 173.7#

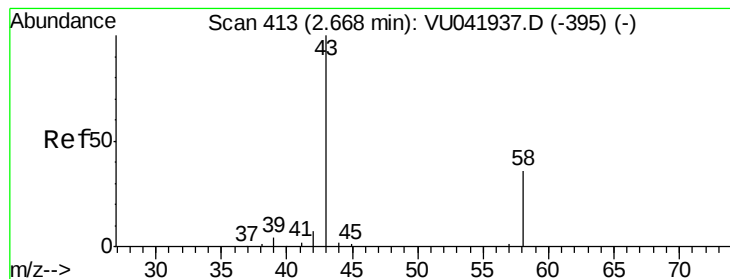


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 1.121 ug/L

RT: 2.67 min Scan# 414

Delta R.T. 0.00 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Instrument :

MSVOA_U

ClientSampleId :

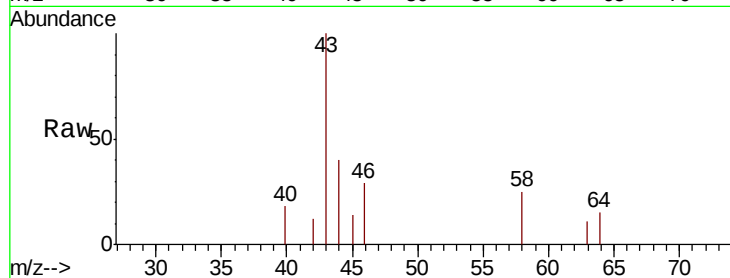
BFXN8

Tot Ion: 43 Resp: 1980

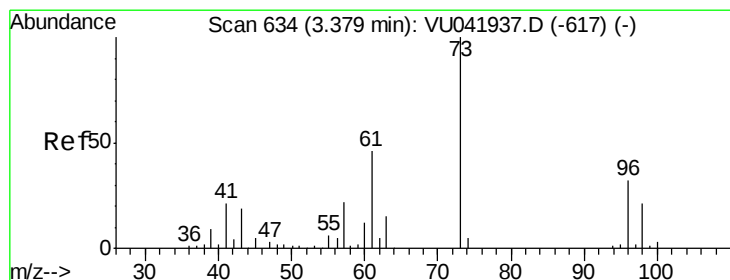
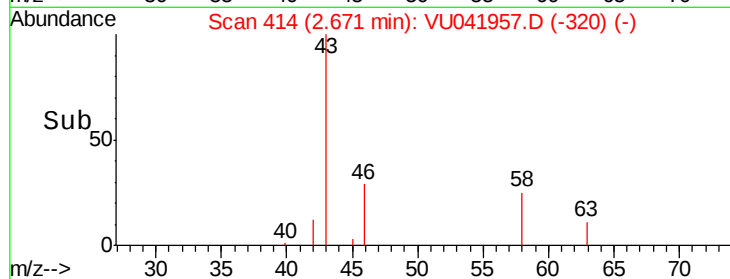
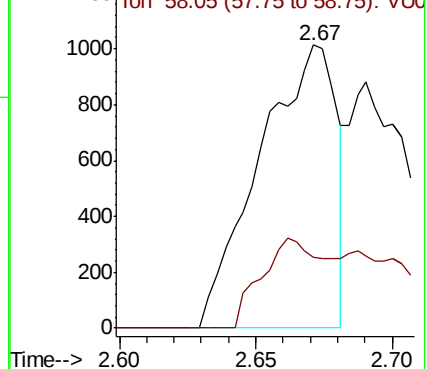
Ion Ratio Lower Upper

43 100

58 23.0 0.0 23.6



Abundance Ion 43.05 (42.75 to 43.75): VU041957.D (-320) (-)



#17

Methyl tert-butyl Ether

Concen: 0.378 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

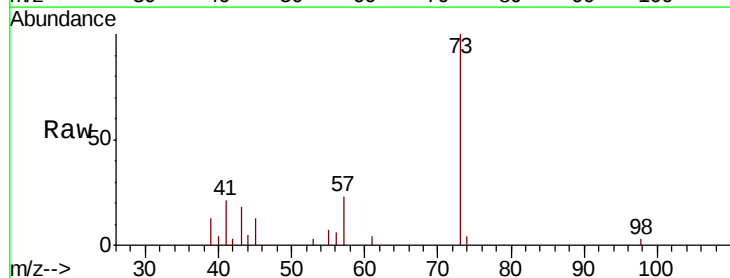
Tgt Ion: 73 Resp: 8208

Ion Ratio Lower Upper

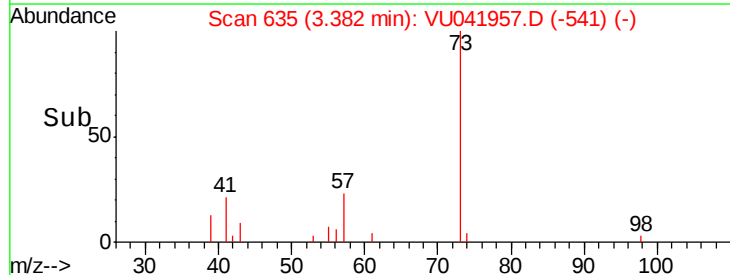
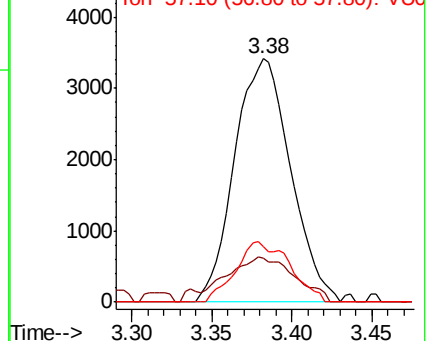
73 100

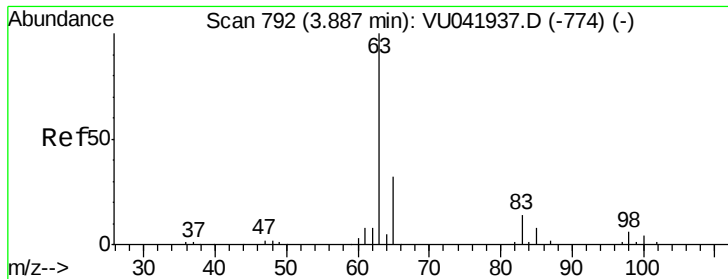
43 22.1 15.8 23.8

57 23.9 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VU041957.D (-541) (-)





#19

1,1-Dichloroethane

Concen: 0.085 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.01 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Instrument :

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ClientSampleId :

BFXN8

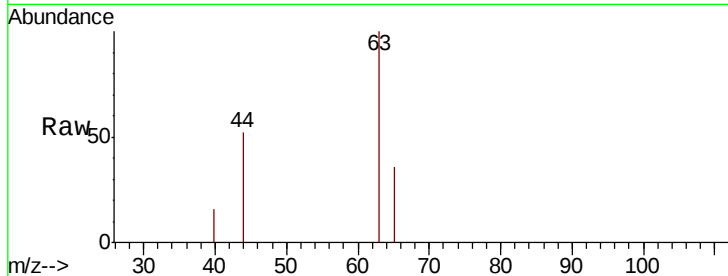
Tot Ion: 63 Resp: 1399

Ion Ratio Lower Upper

63 100

65 36.0 22.3 41.5

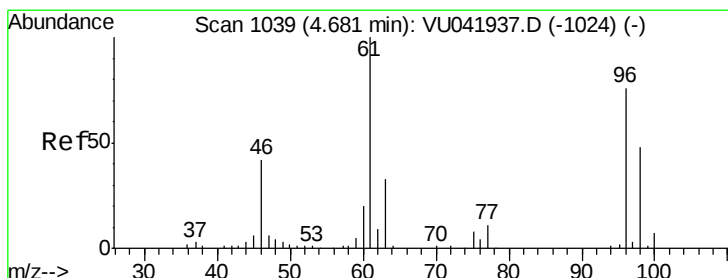
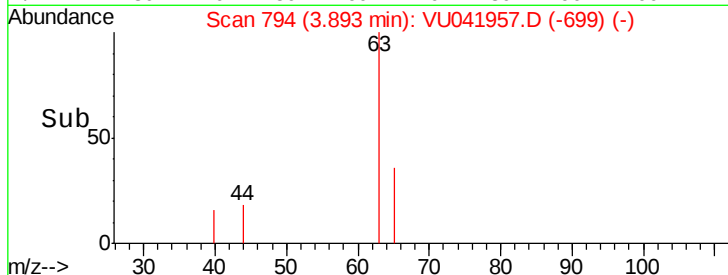
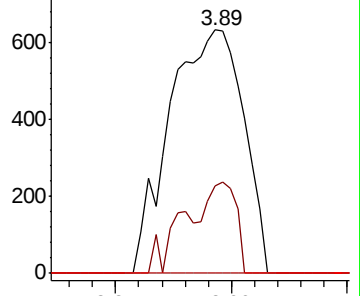
83 0.0 9.0 16.8#



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: 1.157 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.00 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

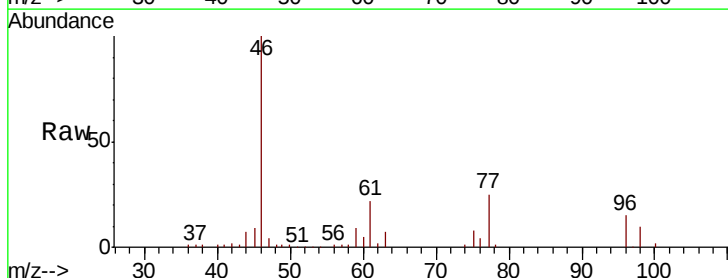
Tgt Ion: 96 Resp: 10865

Ion Ratio Lower Upper

96 100

61 144.5 90.3 167.7

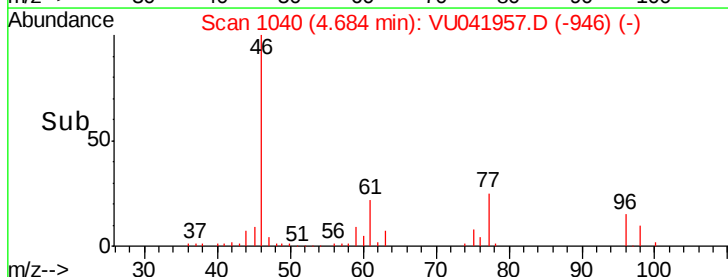
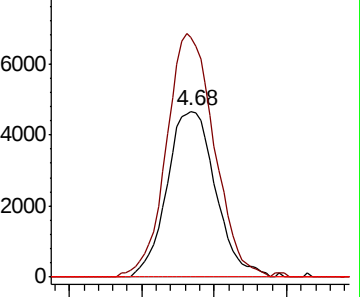
68 0.0 0.0 0.0

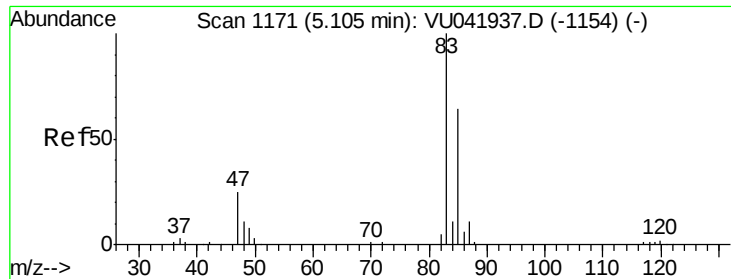


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0

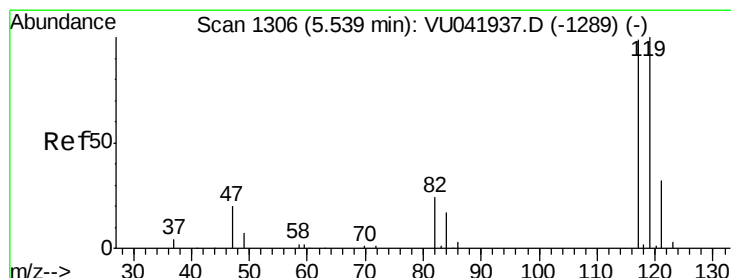
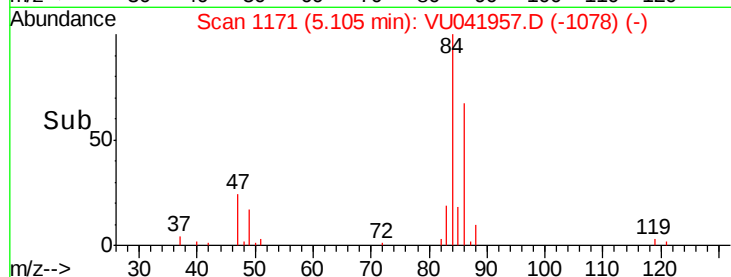
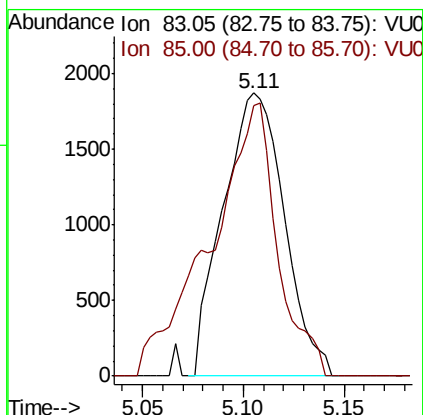
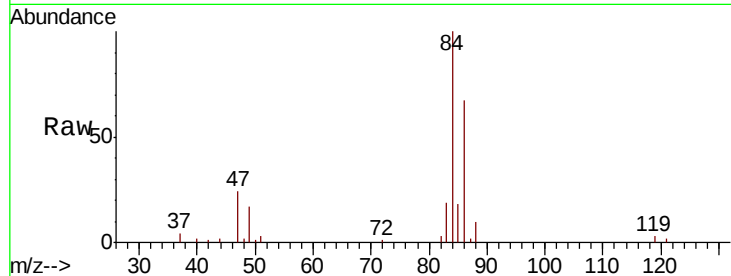




#25
Chloroform
Concen: 0.231 ug/L
RT: 5.11 min Scan# 1171
Delta R.T. -0.00 min
Lab File: VU041957.D
Acq: 12 Jan 2021 06:11

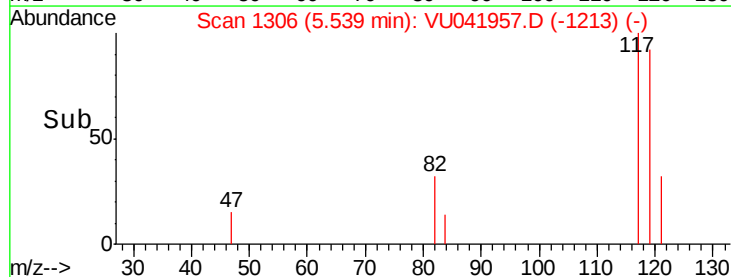
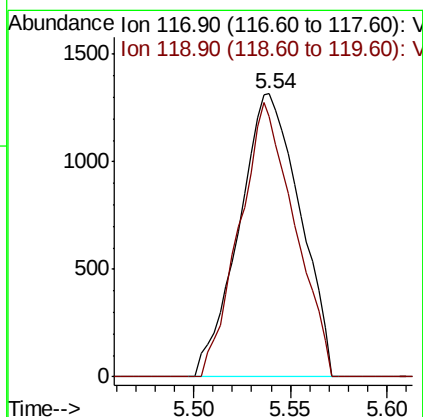
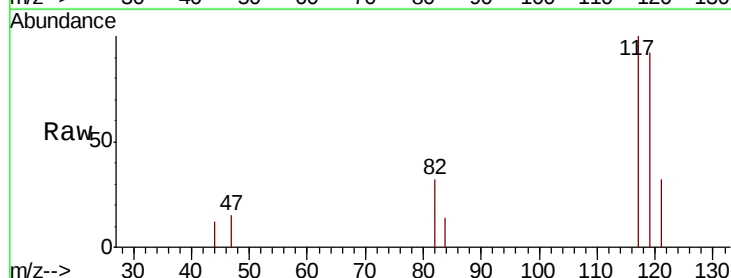
Instrument :
MSVOA_U
ClientSampleId :
BFXN8

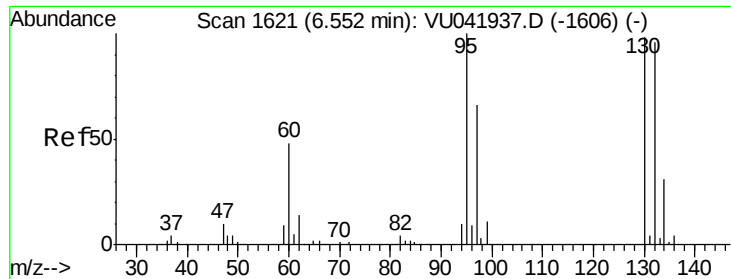
Tot Ion: 83 Resp: 3972
Ion Ratio Lower Upper
83 100
85 95.6 45.1 83.9#



#31
Carbon tetrachloride
Concen: 0.243 ug/L
RT: 5.54 min Scan# 1306
Delta R.T. -0.00 min
Lab File: VU041957.D
Acq: 12 Jan 2021 06:11

Tgt Ion: 117 Resp: 2890
Ion Ratio Lower Upper
117 100
119 87.5 75.0 112.4

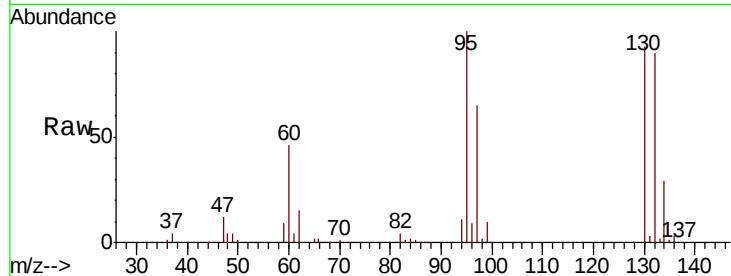




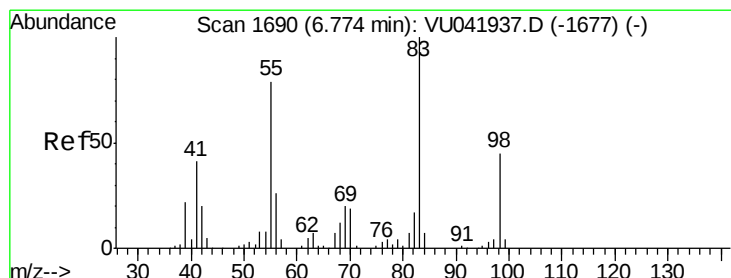
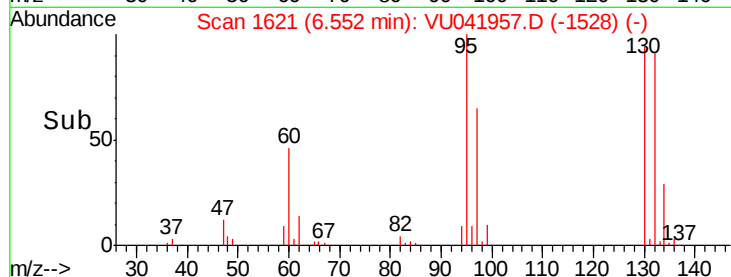
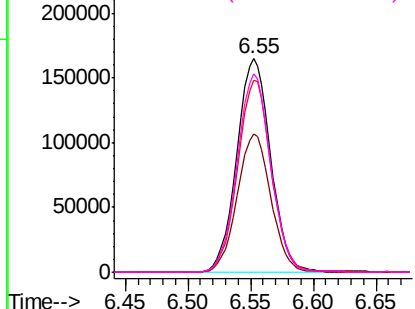
#34
 Trichloroethene
 Concen: 34.753 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. -0.00 min
 Lab File: VU041957.D
 Acq: 12 Jan 2021 06:11

Instrument :
 MSVOA_U
 ClientSampleID :
 BFXN8

Tot Ion: 95 Resp: 309916
 Ion Ratio Lower Upper
 95 100
 97 64.7 45.2 84.0
 132 90.1 68.7 127.5
 130 92.9 68.0 126.4

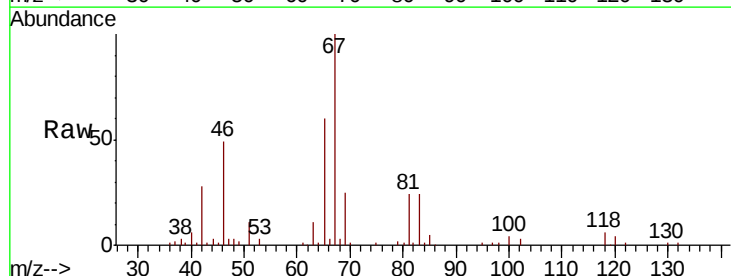


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

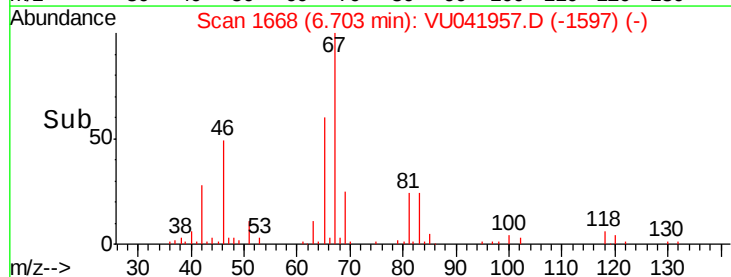
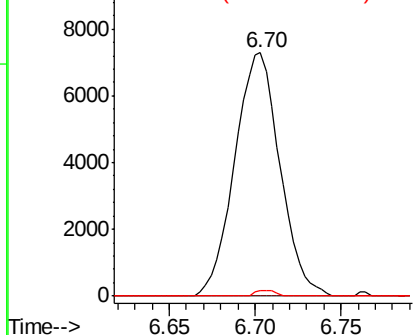


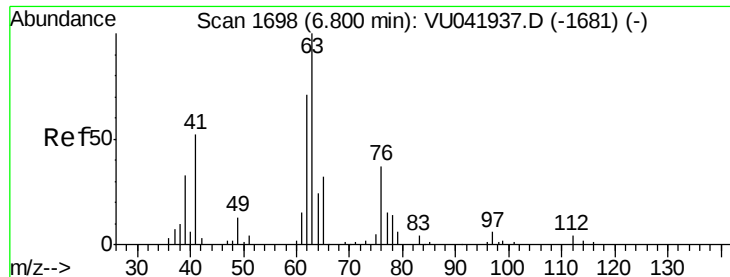
#35
 Methylcyclohexane
 Concen: 1.018 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041957.D
 Acq: 12 Jan 2021 06:11

Tgt Ion: 83 Resp: 13343
 Ion Ratio Lower Upper
 83 100
 55 0.0 64.3 96.5#
 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

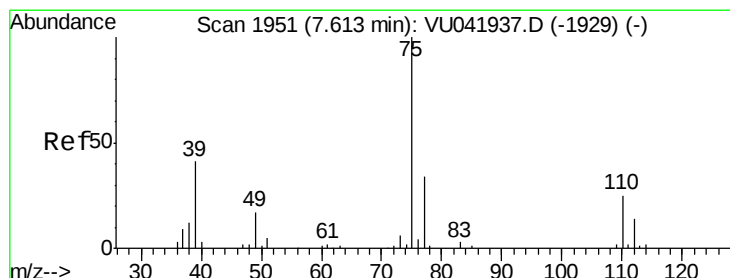
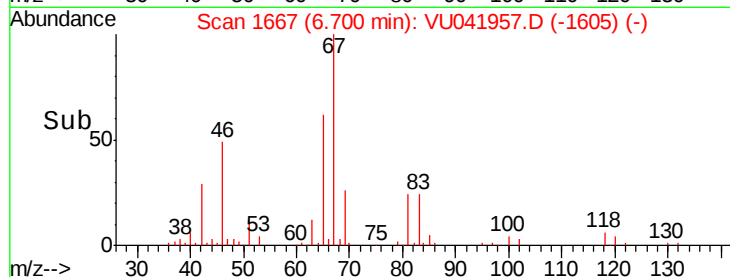
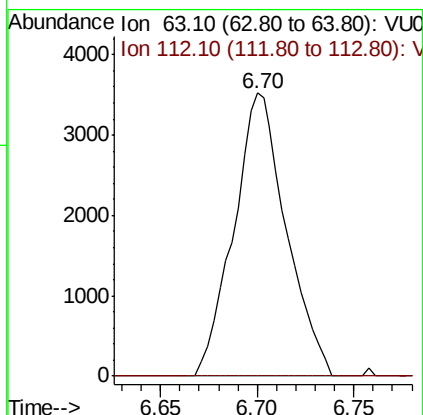
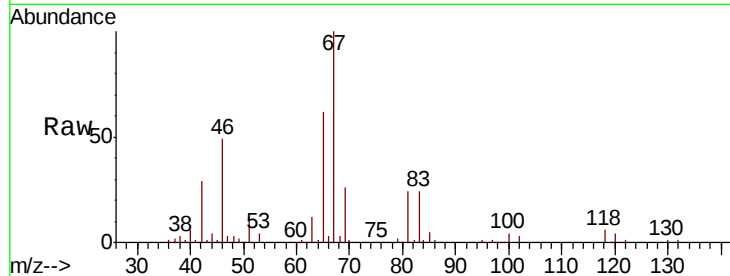




#37
 1,2-Dichloropropane
 Concen: 0.784 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU041957.D
 Acq: 12 Jan 2021 06:11

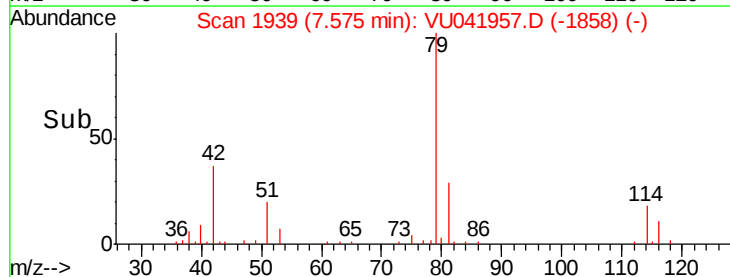
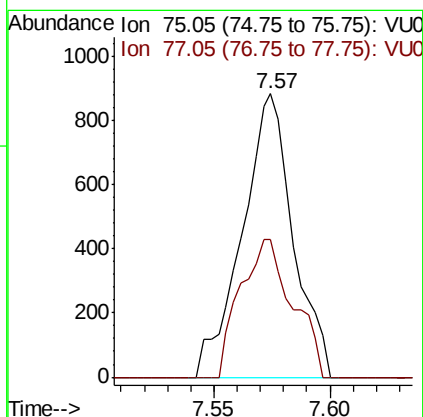
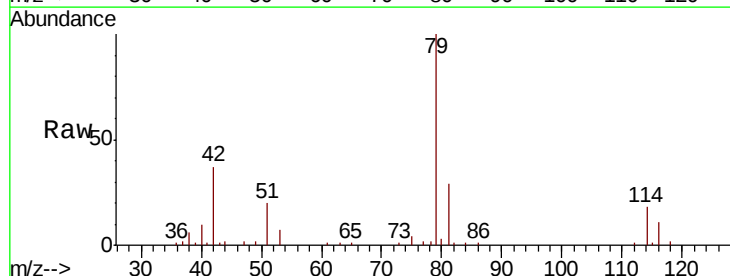
Instrument :
 MSVOA_U
 ClientSampleId :
 BFXN8

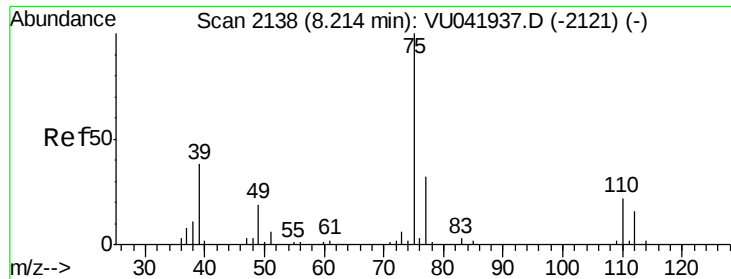
Tot Ion: 63 Resp: 6643
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.3 4.9#



#39
 cis-1,3-Dichloropropene
 Concen: 0.108 ug/L
 RT: 7.57 min Scan# 1939
 Delta R.T. -0.04 min
 Lab File: VU041957.D
 Acq: 12 Jan 2021 06:11

Tgt Ion: 75 Resp: 1345
 Ion Ratio Lower Upper
 75 100
 77 48.7 21.5 39.9#





#44

trans-1,3-Dichloropropene

Concen: 0.099 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Instrument :

MSVOA_U

ClientSampleId :

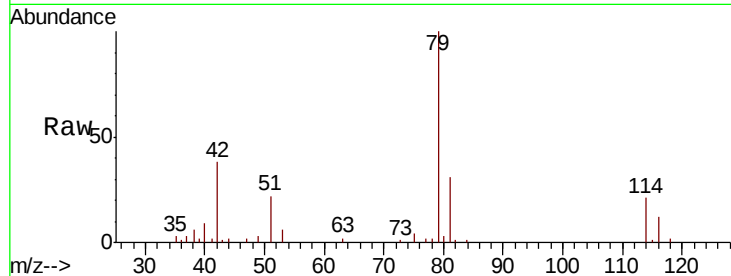
BFXN8

Tot Ion: 75 Resp: 1091

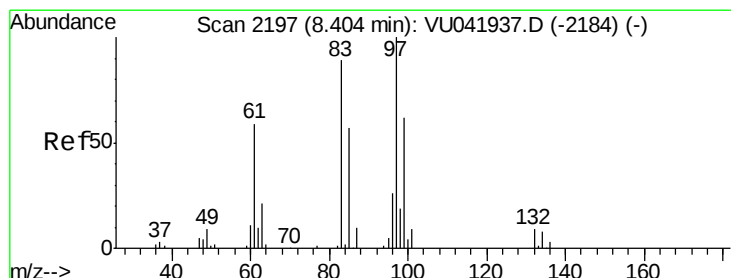
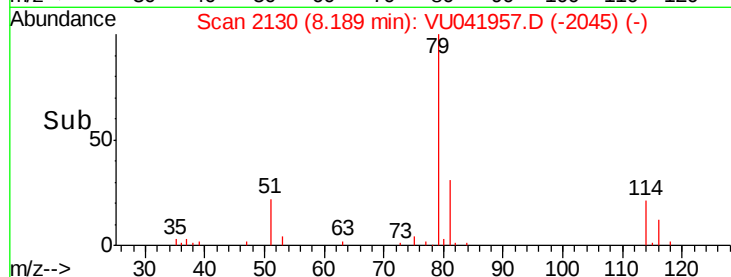
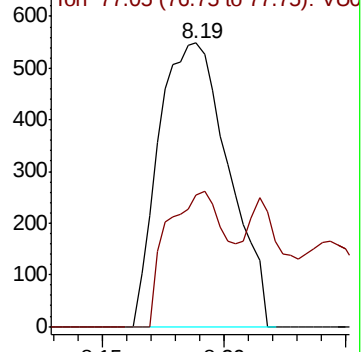
Ion Ratio Lower Upper

75 100

77 46.2 23.7 44.1#



Abundance Ion 75.05 (74.75 to 75.75): VU041937.D (-2121) (-)



#45

1,1,2-Trichloroethane

Concen: 0.099 ug/L

RT: 8.55 min Scan# 2243

Delta R.T. 0.15 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Tgt Ion: 97 Resp: 643

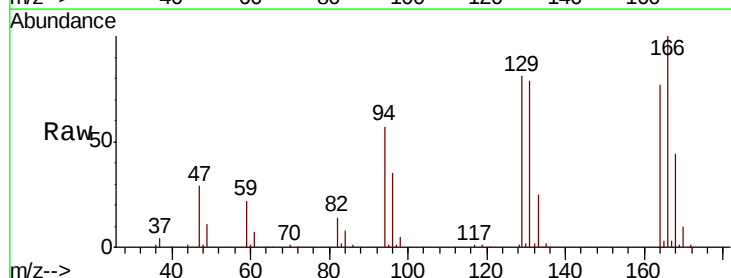
Ion Ratio Lower Upper

97 100

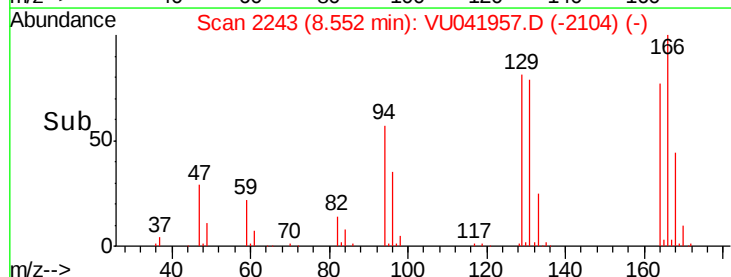
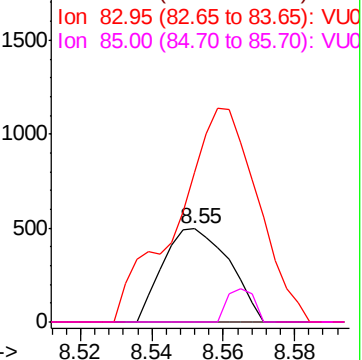
99 0.0 45.1 83.9#

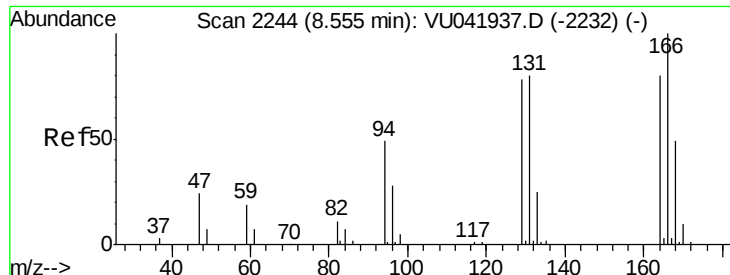
83 161.0 63.3 117.7#

85 0.0 39.2 72.8#



Abundance Ion 96.95 (96.65 to 97.65): VU041937.D (-2184) (-)





#47

Tetrachloroethene

Concen: 11.219 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Instrument :

MSVOA_U

ClientSampleId :

BFXN8

Tot Ion:164 Resp: 69614

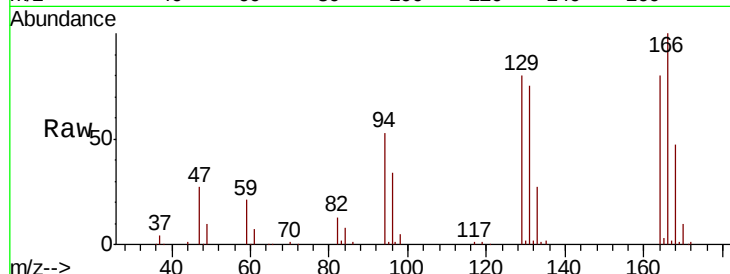
Ion Ratio Lower Upper

164 100

129 100.8 69.2 128.6

131 94.4 69.7 129.5

166 125.7 89.2 165.8

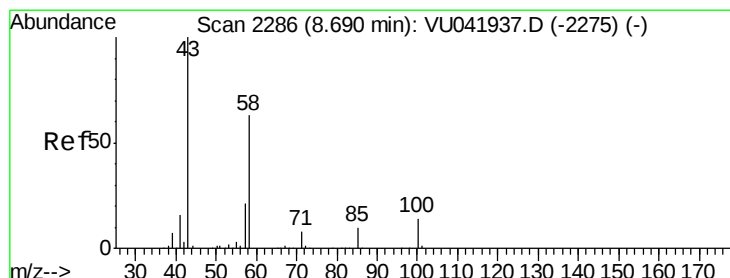
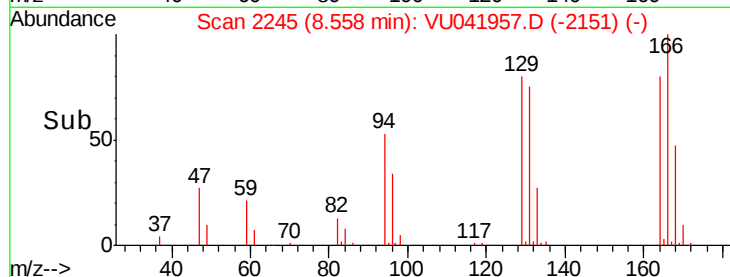
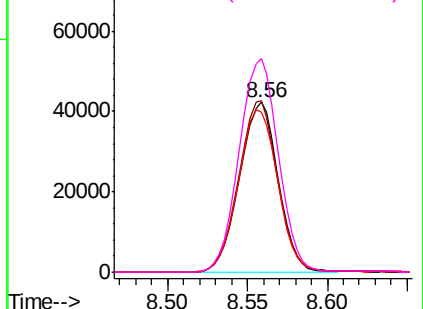


Abundance Ion 163.90 (163.60 to 164.60): V

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: 4.362 ug/L

RT: 8.64 min Scan# 2271

Delta R.T. -0.05 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Tgt Ion: 43 Resp: 17296

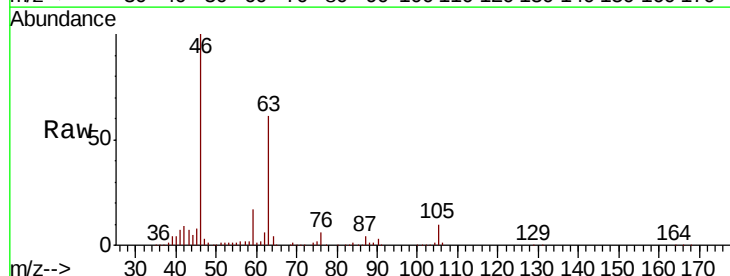
Ion Ratio Lower Upper

43 100

58 34.0 47.6 71.4#

57 31.2 17.1 25.7#

100 0.5 10.4 15.6#

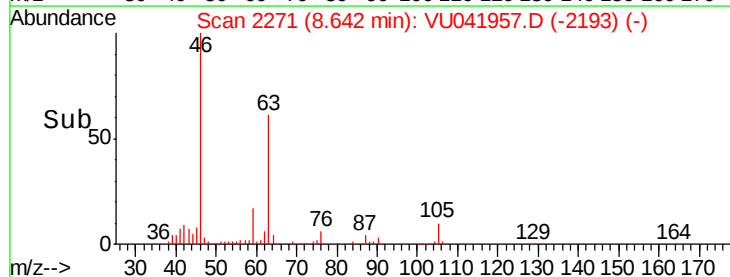
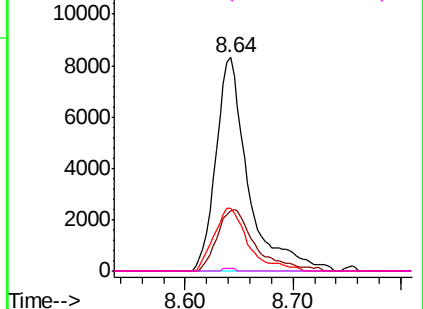


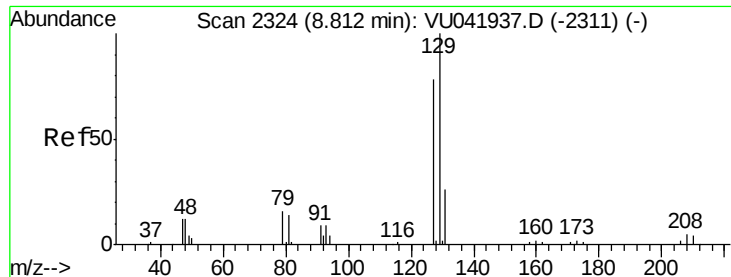
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 8.811 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041957.D

Acq: 12 Jan 2021 06:11

Instrument :

MSVOA_U

ClientSampled :

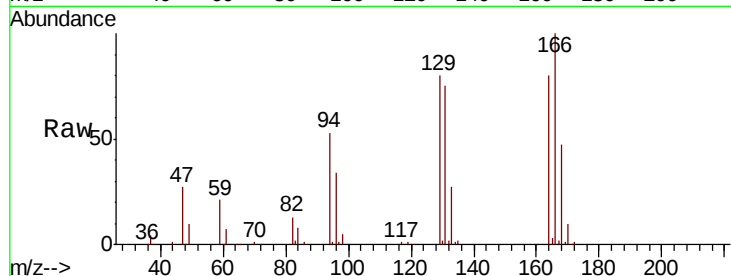
BFXN8

Tot Ion:129 Resp: 69645

Ion Ratio Lower Upper

129 100

127 0.0 54.9 101.9#

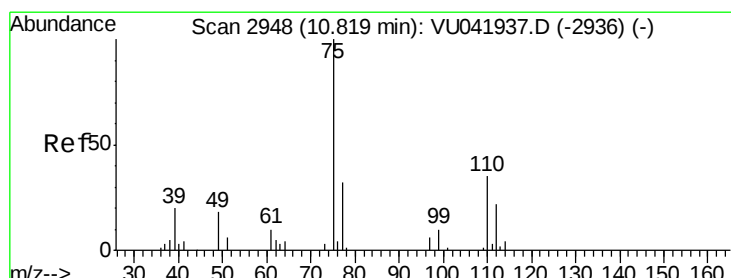
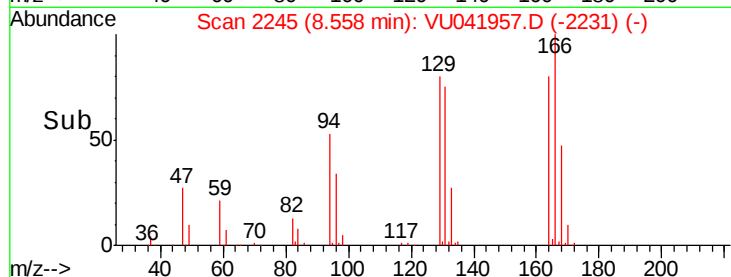


Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

Time-->



#59

1,2,3-Trichloropropane

Concen: 0.813 ug/L

RT: 11.81 min Scan# 3256

Delta R.T. 0.99 min

Lab File: VU041957.D

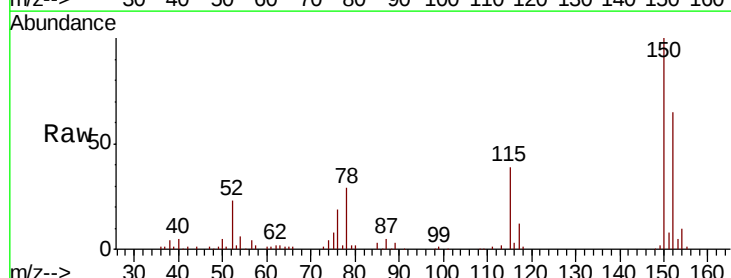
Acq: 12 Jan 2021 06:11

Tgt Ion: 75 Resp: 5033

Ion Ratio Lower Upper

75 100

77 34.5 27.0 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

11.81

Time-->

