

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011121\
 Data File : VU041951.D
 Acq On : 12 Jan 2021 03:47
 Operator : SY/MD
 Sample : M1027-14
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BFXK8

Quant Time: Jan 12 05:53:42 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	121564	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	118847	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	43942	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	48674	4.75	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.00%
7) Chloroethane-d5	1.92	69	46140	4.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.20%
11) 1,1-Dichloroethene-d2	2.58	63	72837	3.75	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.00%
20) 2-Butanone-d5	4.65	46	183150	64.32	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	128.64%
24) Chloroform-d	5.08	84	99589	5.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.60%
26) 1,2-Dichloroethane-d4	5.71	65	58008	5.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	117.80%
32) Benzene-d6	5.74	84	190567	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.40%
36) 1,2-Dichloropropane-d6	6.70	67	64889	5.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	117.60%
41) Toluene-d8	7.90	98	155505	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
43) trans-1,3-Dichloropropene-	8.19	79	23918	5.19	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	103.80%
46) 2-Hexanone-d5	8.64	63	156283	67.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	134.18%#
57) 1,1,2,2-Tetrachloroethane-	10.75	84	49259	5.04	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.80%
64) 1,2-Dichlorobenzene-d4	12.19	152	46206	5.56	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.39	85	11033	0.938	ug/L 97
3) Chloromethane	1.52	50	739	0.058	ug/L 88
8) Chloroethane	1.96	64	369	0.044	ug/L # 43
9) Trichlorofluoromethane	2.14	101	1258	0.070	ug/L 96
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	765	0.078	ug/L # 20
12) 1,1-Dichloroethene	2.58	96	1316	0.139	ug/L # 1
13) Acetone	2.66	43	3969	2.146	ug/L 93
17) Methyl tert-butyl Ether	3.38	73	10038	0.441	ug/L # 87
22) cis-1,2-Dichloroethene	4.68	96	10879	1.106	ug/L 94
25) Chloroform	5.10	83	3643	0.202	ug/L # 75
27) 1,2-Dichloroethane	5.81	62	1055	0.091	ug/L # 73
34) Trichloroethene	6.55	95	161960	16.108	ug/L 95
35) Methylcyclohexane	6.70	83	14905	1.008	ug/L # 18
37) 1,2-Dichloropropane	6.70	63	6867	0.719	ug/L # 88
39) cis-1,3-Dichloropropene	7.58	75	1345	0.095	ug/L # 52
44) trans-1,3-Dichloropropene	8.18	75	1017	0.082	ug/L 97
45) 1,1,2-Trichloroethane	8.56	97	2056	0.281	ug/L # 1

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

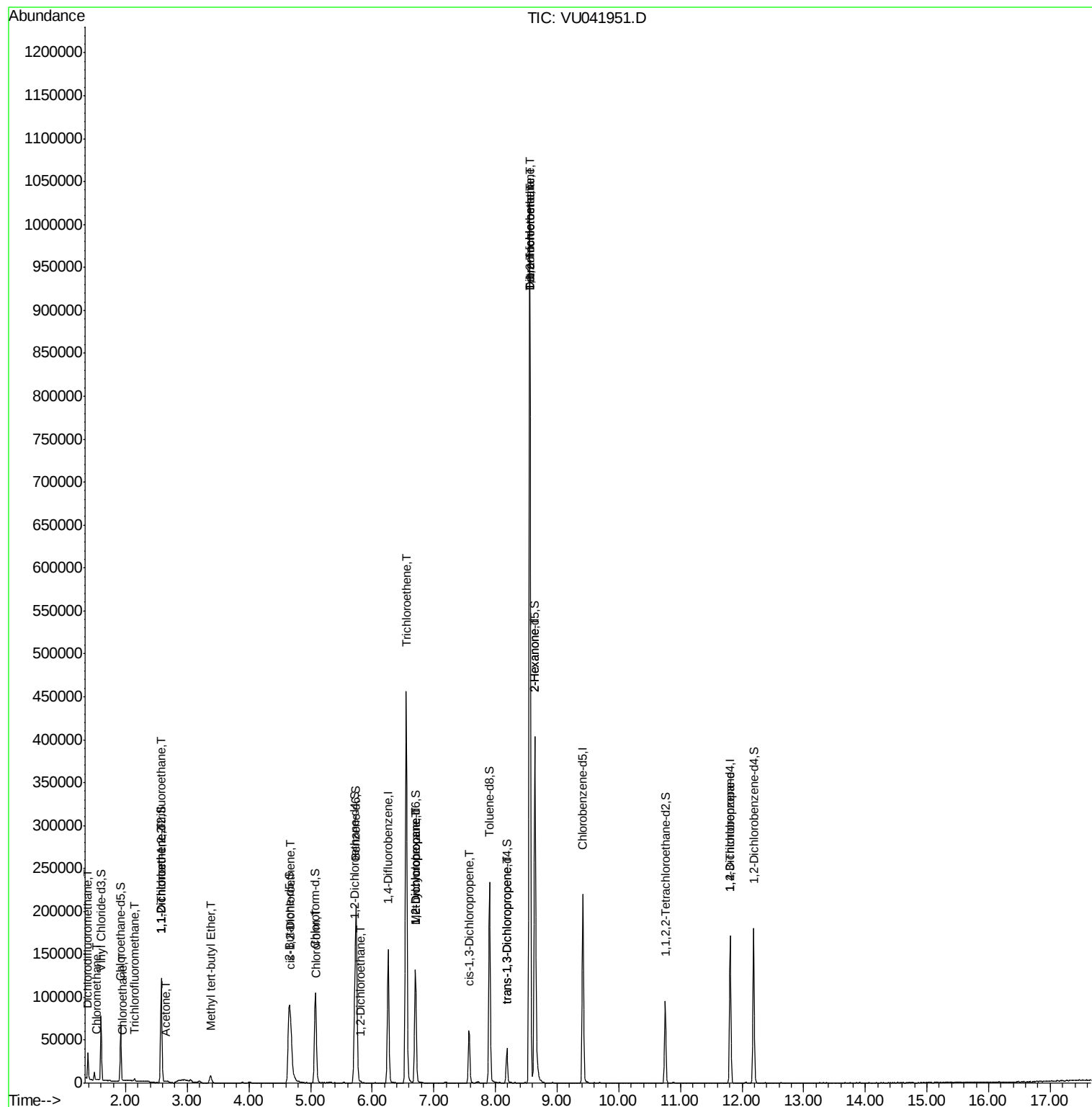
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.56	164	218155	31.181	ug/L	97
48) 2-Hexanone	8.64	43	20054	4.486	ug/L #	66
49) Dibromochloromethane	8.56	129	223356	25.061	ug/L #	10
59) 1,2,3-Trichloropropane	11.81	75	5880	0.843	ug/L	94

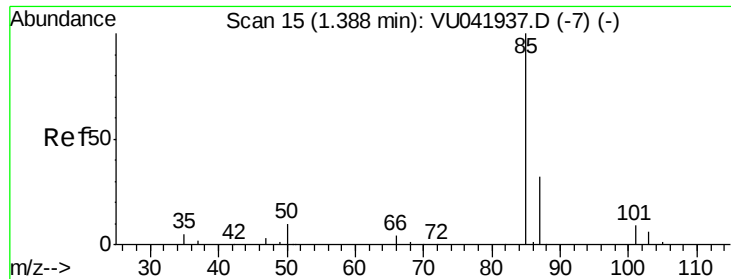
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU011121\
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#2

Dichlorodifluoromethane

Concen: 0.938 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Instrument :

MSVOA_U

ClientSampleId :

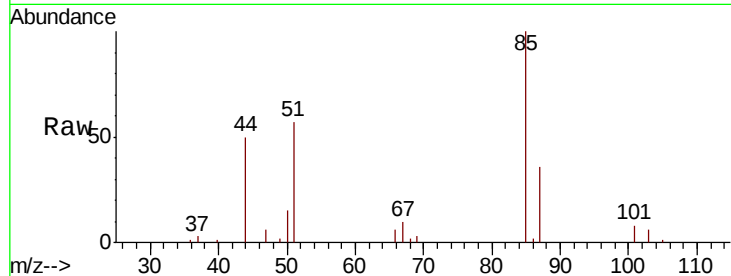
BFXK8

Tot Ion: 85 Resp: 11033

Ion Ratio Lower Upper

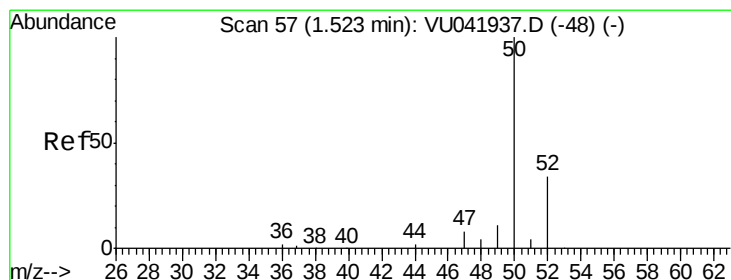
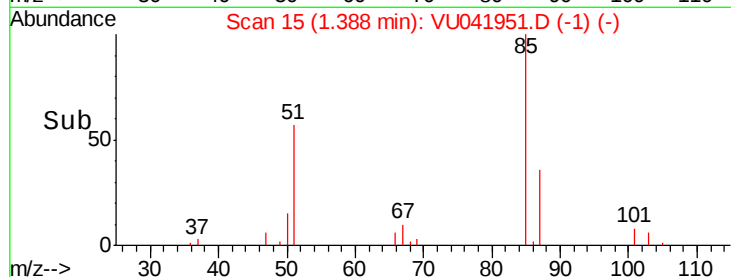
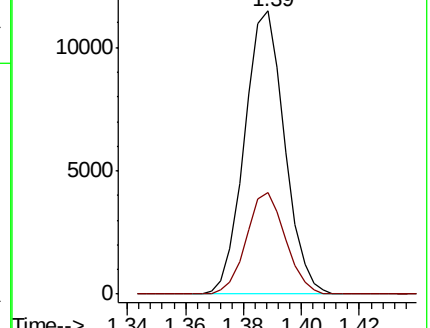
85 100

87 34.8 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU041937.D (-7) (-)

Ion 87.00 (86.70 to 87.70): VU041937.D (-7) (-)



#3

Chloromethane

Concen: 0.058 ug/L

RT: 1.52 min Scan# 57

Delta R.T. -0.00 min

Lab File: VU041951.D

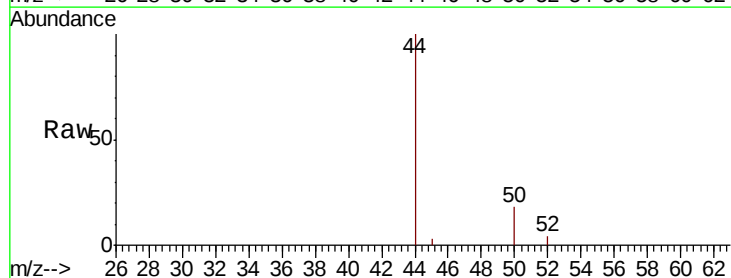
Acq: 12 Jan 2021 03:47

Tgt Ion: 50 Resp: 739

Ion Ratio Lower Upper

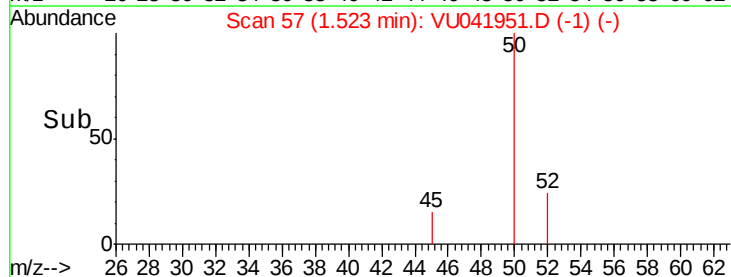
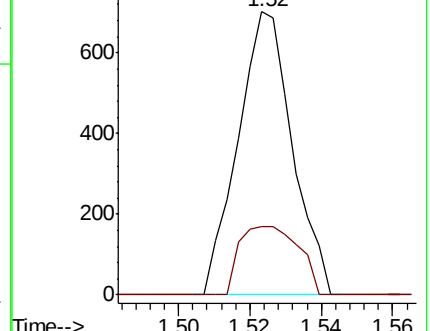
50 100

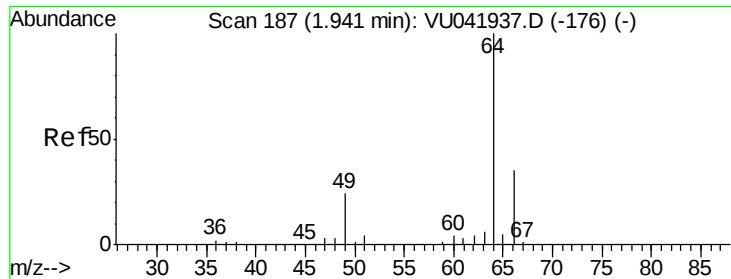
52 24.2 21.4 39.8



Abundance Ion 50.05 (49.75 to 50.75): VU041937.D (-48) (-)

Ion 52.05 (51.75 to 52.75): VU041937.D (-48) (-)

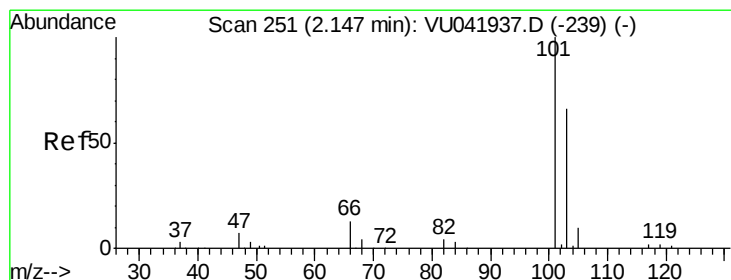
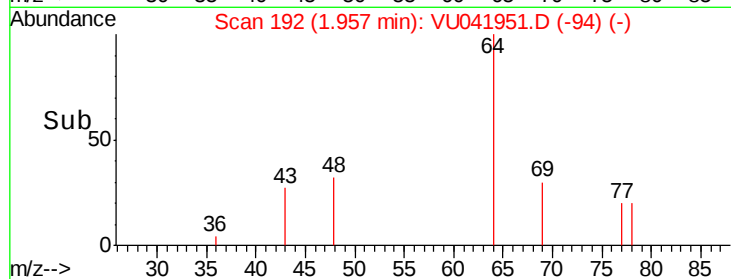
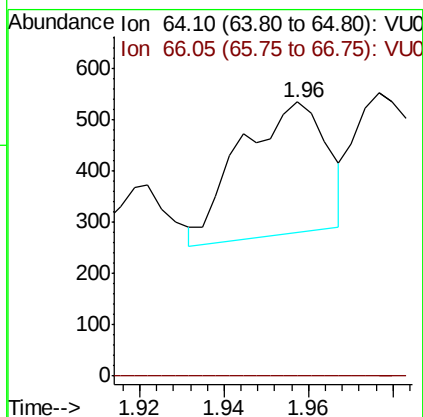
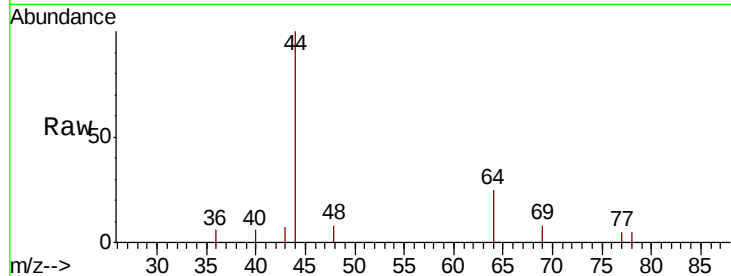




#8
Chloroethane
Concen: 0.044 ug/L
RT: 1.96 min Scan# 192
Delta R.T. 0.02 min
Lab File: VU041951.D
Acq: 12 Jan 2021 03:47

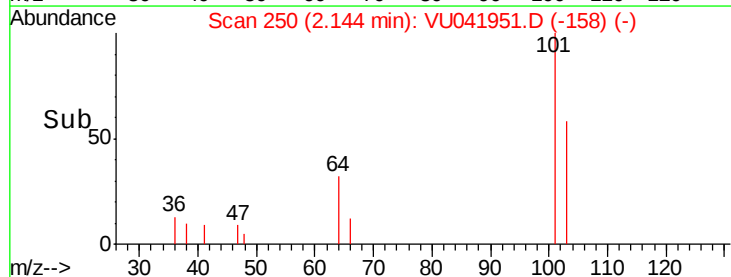
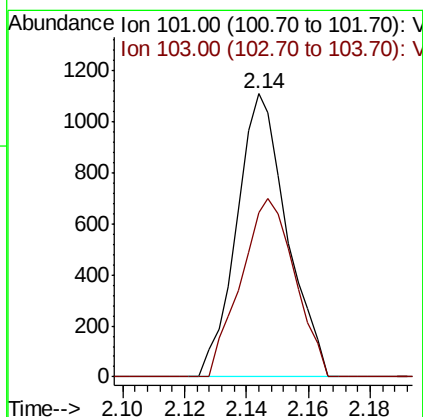
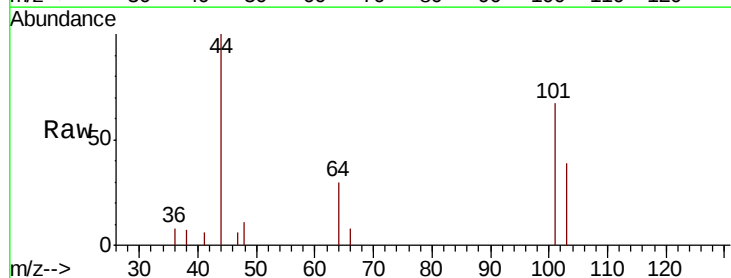
Instrument :
MSVOA_U
ClientSampleId :
BFXK8

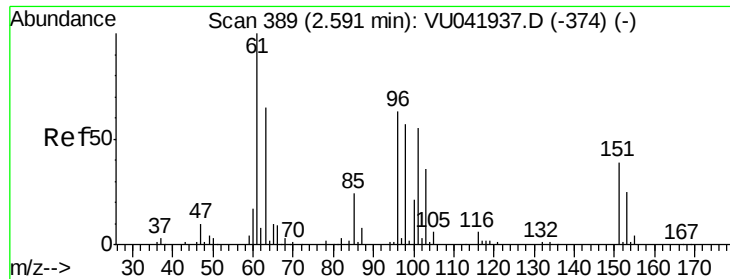
Tot Ion: 64 Resp: 369
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#



#9
Trichlorofluoromethane
Concen: 0.070 ug/L
RT: 2.14 min Scan# 250
Delta R.T. -0.00 min
Lab File: VU041951.D
Acq: 12 Jan 2021 03:47

Tgt Ion:101 Resp: 1258
Ion Ratio Lower Upper
101 100
103 67.3 51.3 76.9





#10

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

Concen: 0.078 ug/L

RT: 2.58 min Scan# 385

Delta R.T. -0.01 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Instrument :

MSVOA_U

ClientSampleId :

BFXK8

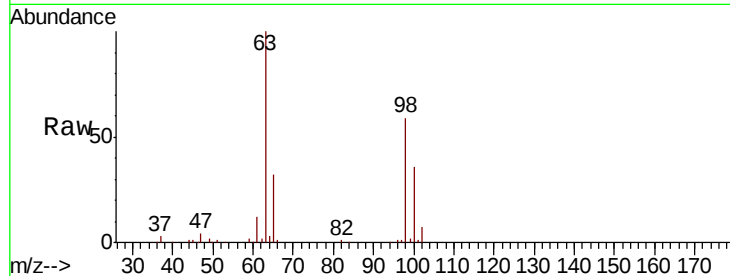
Tot Ion:101 Resp: 765

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

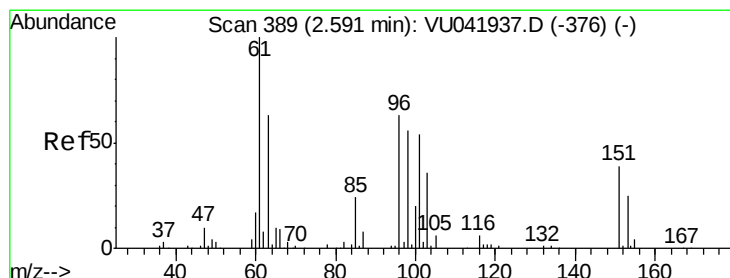
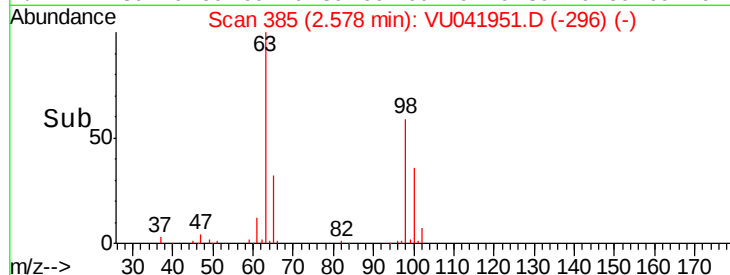
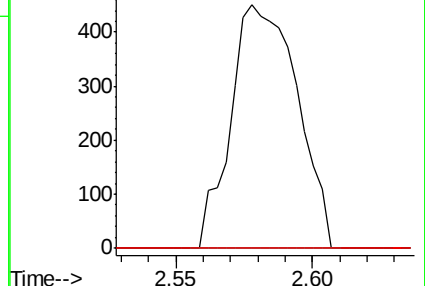
151 0.0 58.2 87.2#



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: 0.139 ug/L

RT: 2.58 min Scan# 387

Delta R.T. -0.01 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

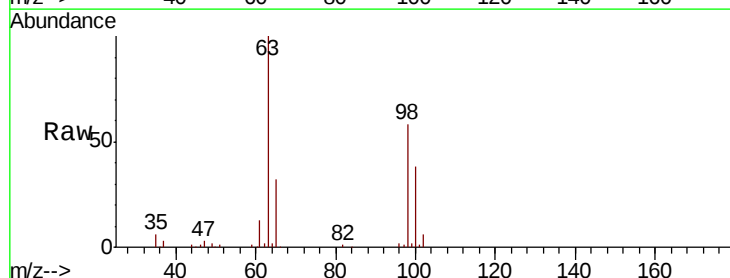
Tgt Ion: 96 Resp: 1316

Ion Ratio Lower Upper

96 100

61 670.7 123.5 229.4#

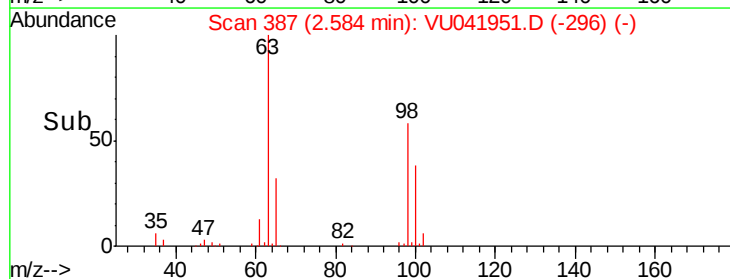
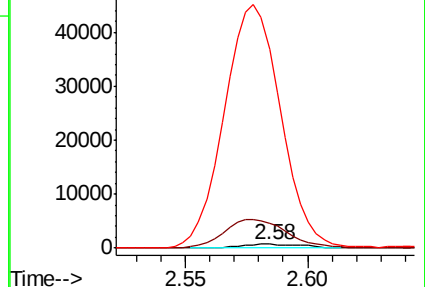
63 5339.9 93.5 173.7#

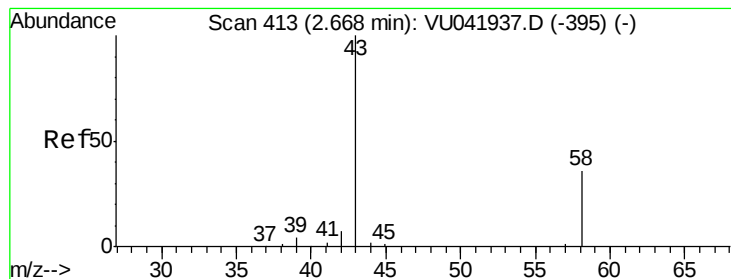


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.146 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Instrument :

MSVOA_U

ClientSampleId :

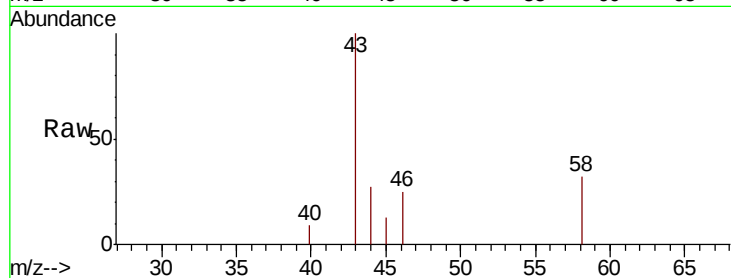
BFXK8

Tot Ion: 43 Resp: 3969

Ion Ratio Lower Upper

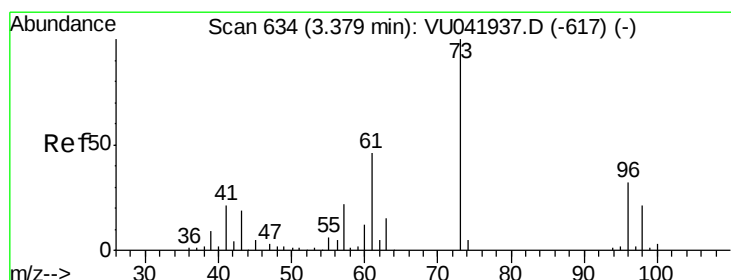
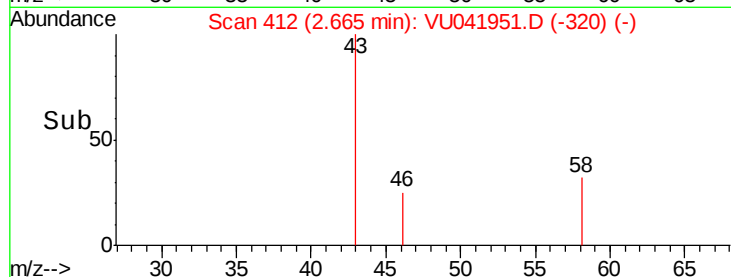
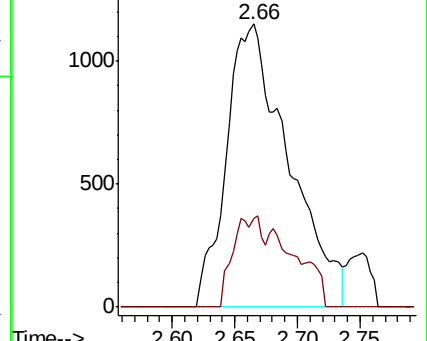
43 100

58 9.2 0.0 23.6



Abundance Ion 43.05 (42.75 to 43.75): VU041937.D (-395) (-)

Ion 58.05 (57.75 to 58.75): VU041937.D (-395) (-)



#17

Methyl tert-butyl Ether

Concen: 0.441 ug/L

RT: 3.38 min Scan# 634

Delta R.T. -0.00 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

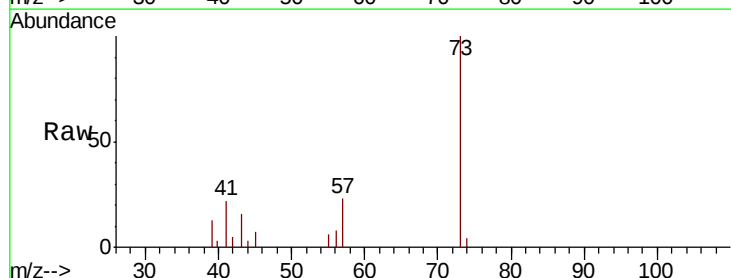
Tgt Ion: 73 Resp: 10038

Ion Ratio Lower Upper

73 100

43 8.9 15.8 23.8#

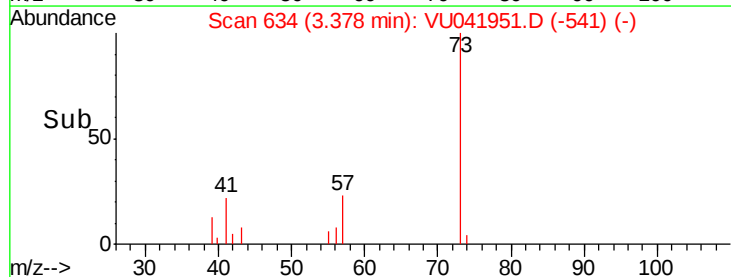
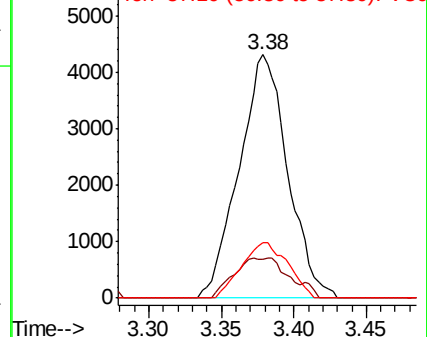
57 21.6 18.3 27.5

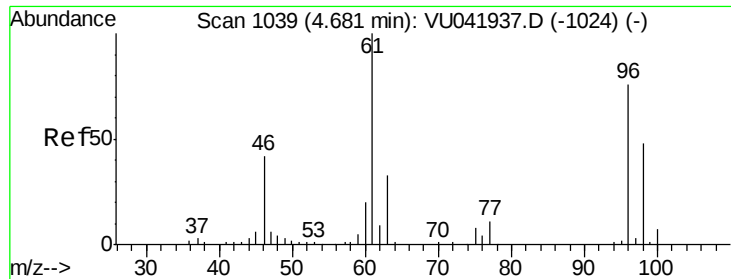


Abundance Ion 73.10 (72.80 to 73.80): VU041937.D (-617) (-)

Ion 43.05 (42.75 to 43.75): VU041937.D (-617) (-)

Ion 57.10 (56.80 to 57.80): VU041937.D (-617) (-)





#22

cis-1,2-Dichloroethene

Concen: 1.106 ug/L

RT: 4.68 min Scan# 1039

Delta R.T. -0.00 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Instrument :

MSVOA_U

ClientSampleId :

BFXK8

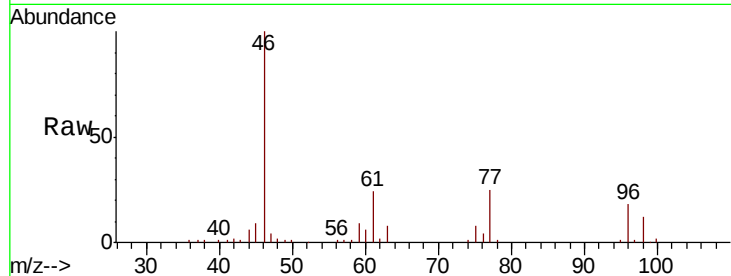
Tot Ion: 96 Resp: 10879

Ion Ratio Lower Upper

96 100

61 135.7 90.3 167.7

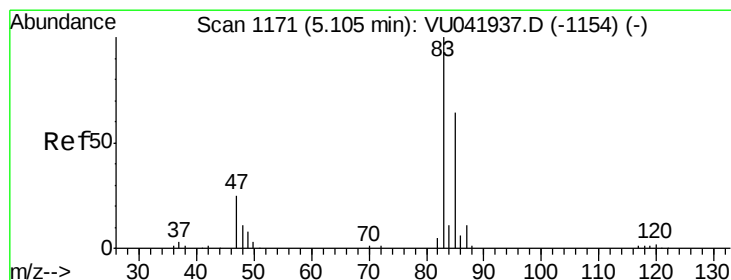
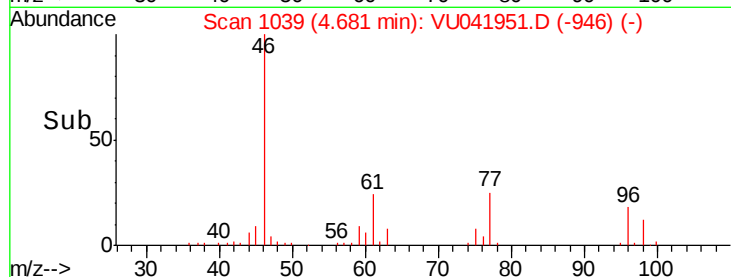
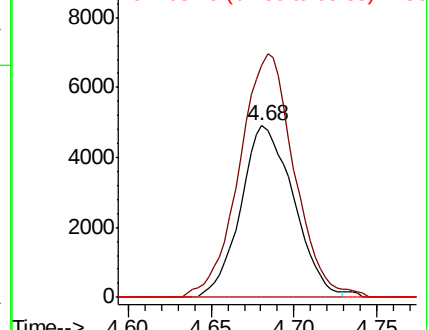
68 0.0 0.0 0.0



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: 0.202 ug/L

RT: 5.10 min Scan# 1170

Delta R.T. -0.00 min

Lab File: VU041951.D

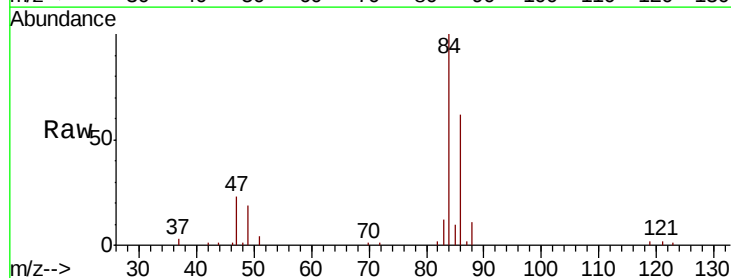
Acq: 12 Jan 2021 03:47

Tgt Ion: 83 Resp: 3643

Ion Ratio Lower Upper

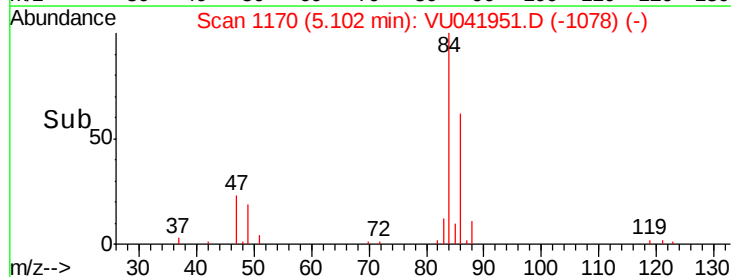
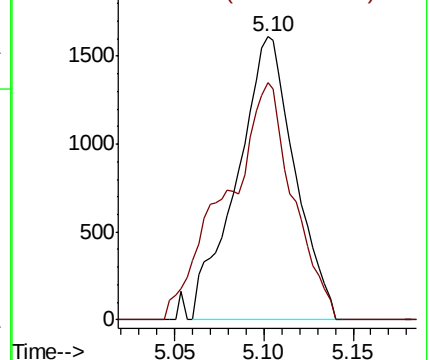
83 100

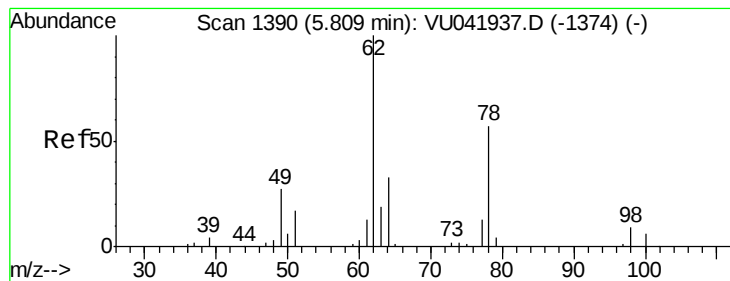
85 83.9 45.1 83.9#



Abundance Ion 83.05 (82.75 to 83.75): VU0

Ion 85.00 (84.70 to 85.70): VU0





#27

1,2-Dichloroethane

Concen: 0.091 ug/L

RT: 5.81 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Instrument :

MSVOA_U

ClientSampled :

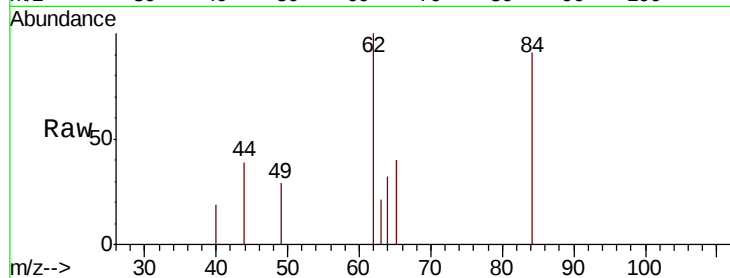
BFXK8

Tot Ion: 62 Resp: 1055

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.8#



Abundance Ion 62.00 (61.70 to 62.70): VU041937.D (-1374) (-)

Ion 98.05 (97.75 to 98.75): VU041937.D (-1374) (-)

5.81

600

500

400

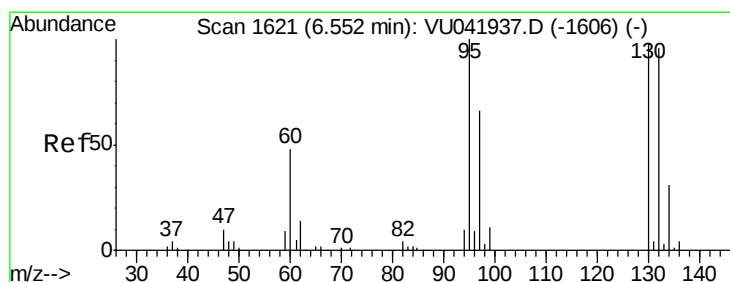
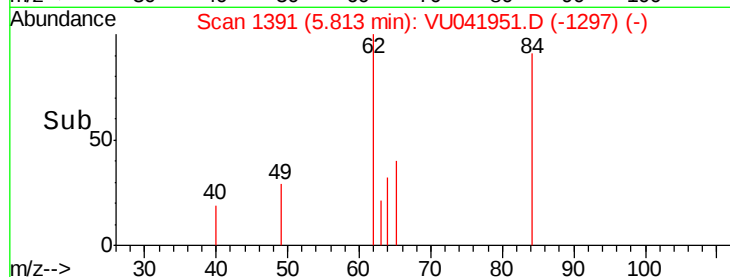
300

200

100

0

Time-->



#34

Trichloroethene

Concen: 16.108 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. -0.00 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Tgt Ion: 95 Resp: 161960

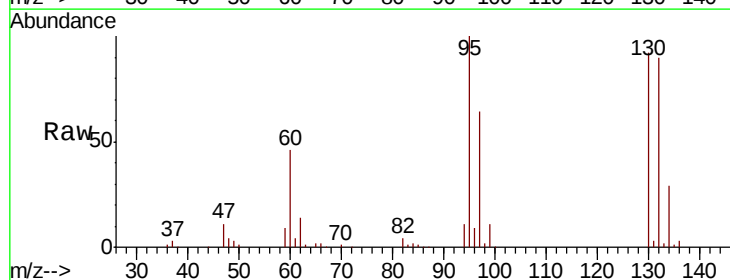
Ion Ratio Lower Upper

95 100

97 63.7 45.2 84.0

132 90.5 68.7 127.5

130 92.2 68.0 126.4



Abundance Ion 95.00 (94.70 to 95.70): VU041937.D (-1606) (-)

Ion 96.95 (96.65 to 97.65): VU041937.D (-1606) (-)

Ion 131.95 (131.65 to 132.65): VU041937.D (-1606) (-)

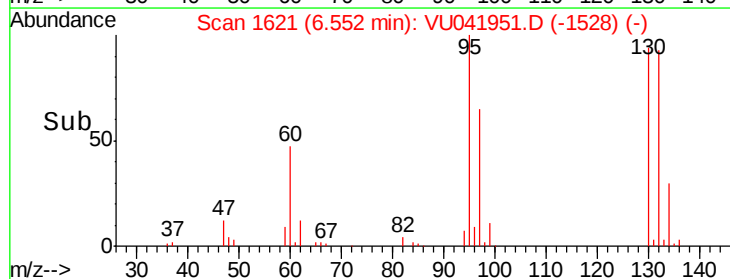
Ion 129.95 (129.65 to 130.65): VU041937.D (-1606) (-)

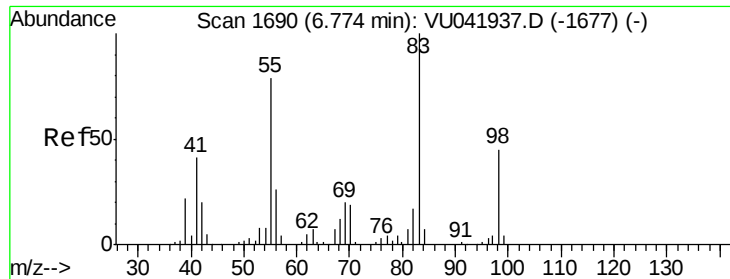
100000

50000

0

Time-->

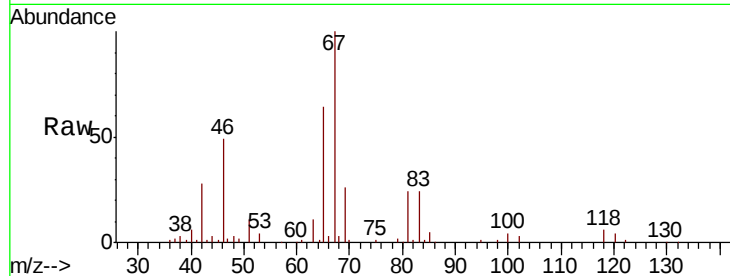




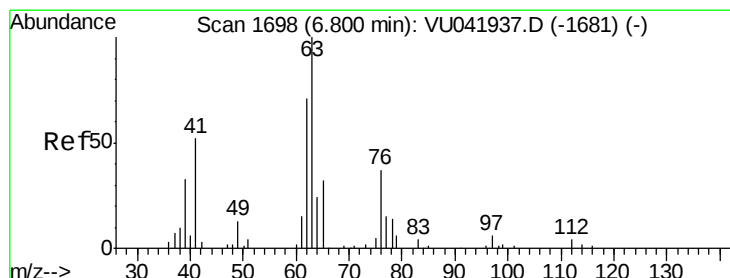
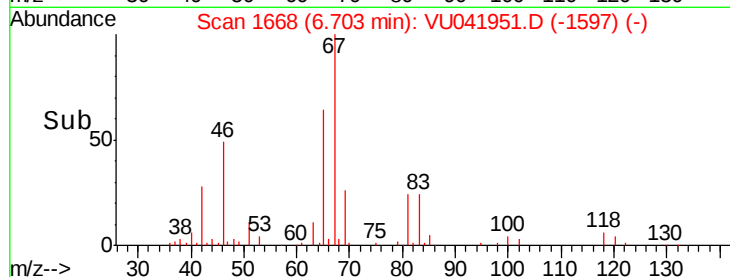
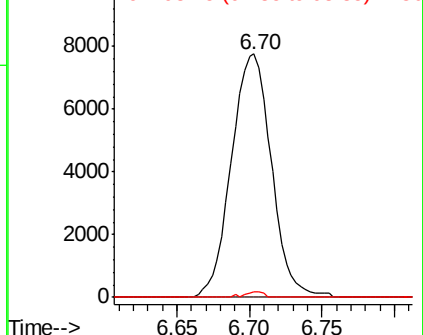
#35
Methylcyclohexane
Concen: 1.008 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041951.D
Acq: 12 Jan 2021 03:47

Instrument :
MSVOA_U
ClientSampleId :
BFXK8

Tot Ion: 83 Resp: 14905
Ion Ratio Lower Upper
83 100
55 0.0 64.3 96.5#
98 1.1 36.6 54.8#

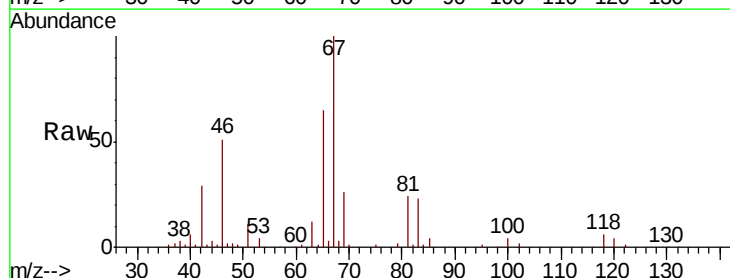


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

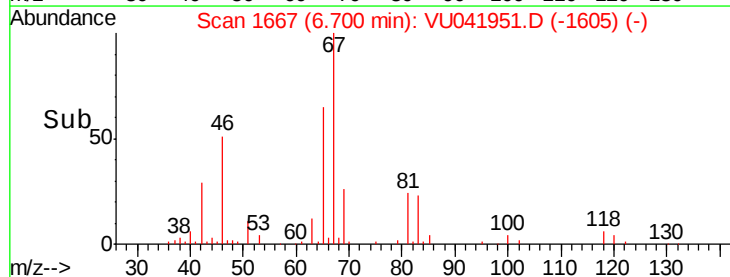
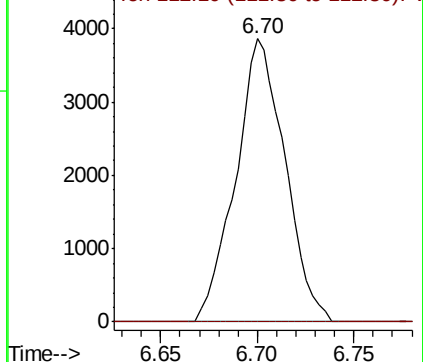


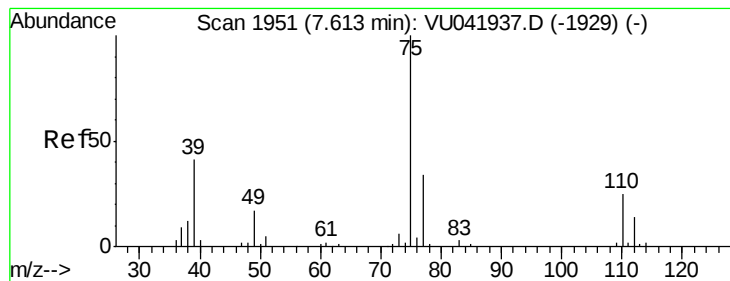
#37
1,2-Dichloropropane
Concen: 0.719 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041951.D
Acq: 12 Jan 2021 03:47

Tgt Ion: 63 Resp: 6867
Ion Ratio Lower Upper
63 100
112 0.0 3.3 4.9#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V





#39

cis-1,3-Dichloropropene

Concen: 0.095 ug/L

RT: 7.58 min Scan# 1940

Delta R.T. -0.04 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Instrument :

MSVOA_U

ClientSampleId :

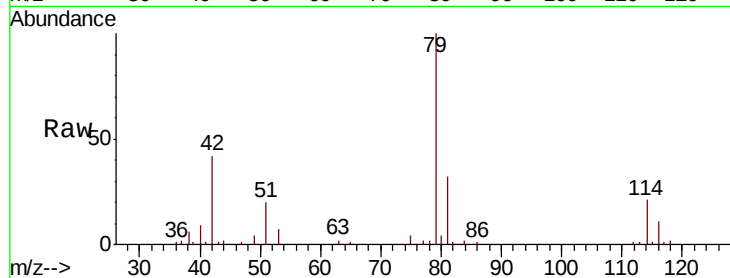
BFXK8

Tot Ion: 75 Resp: 1345

Ion Ratio Lower Upper

75 100

77 56.9 21.5 39.9#



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

7.58

800

600

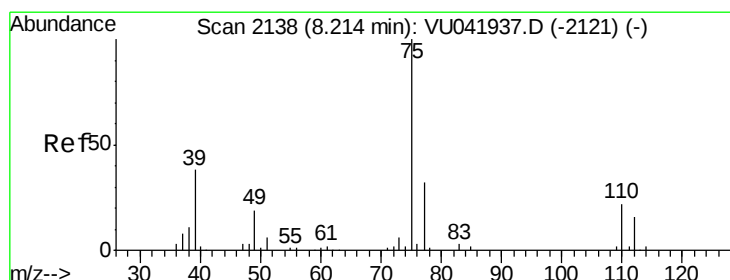
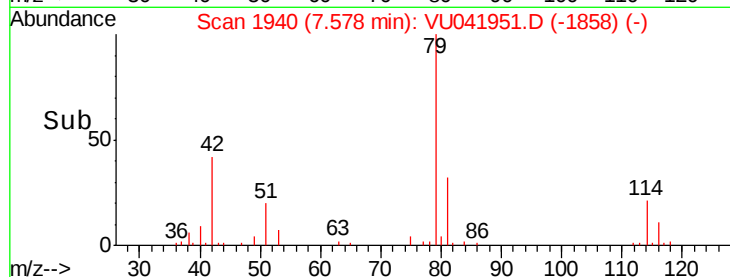
400

200

0

7.55 7.60

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.082 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041951.D

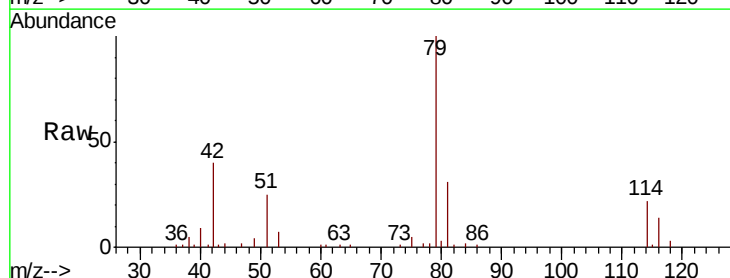
Acq: 12 Jan 2021 03:47

Tgt Ion: 75 Resp: 1017

Ion Ratio Lower Upper

75 100

77 32.4 23.7 44.1



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

8.18

800

600

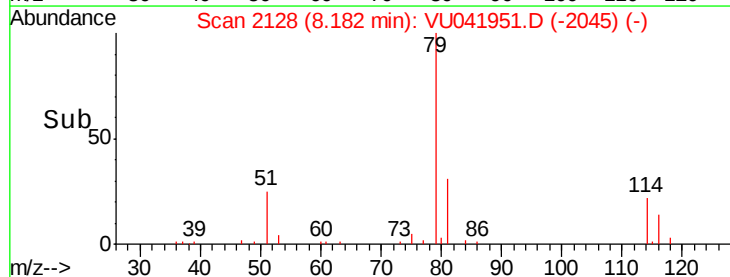
400

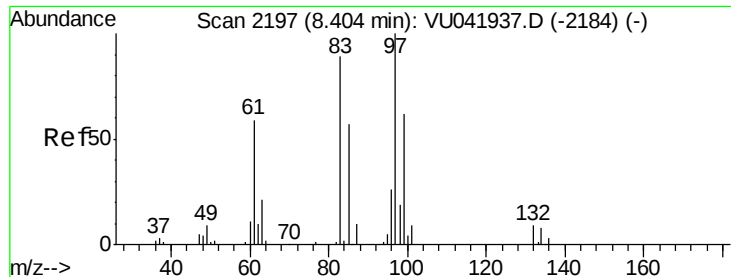
200

0

8.15 8.20

Time-->





#45

1,1,2-Trichloroethane

Concen: 0.281 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.15 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Instrument :

MSVOA_U

ClientSampleId :

BFXK8

Tot Ion: 97 Resp: 2056

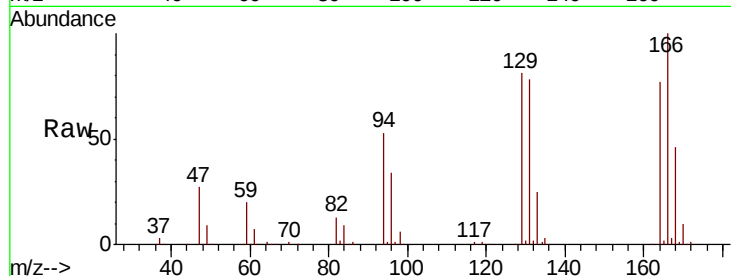
Ion Ratio Lower Upper

97 100

99 21.2 45.1 83.9#

83 296.7 63.3 117.7#

85 34.4 39.2 72.8#



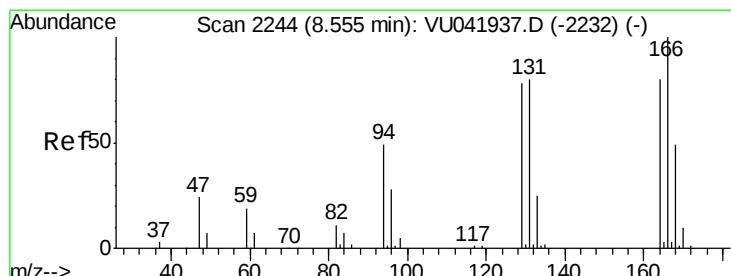
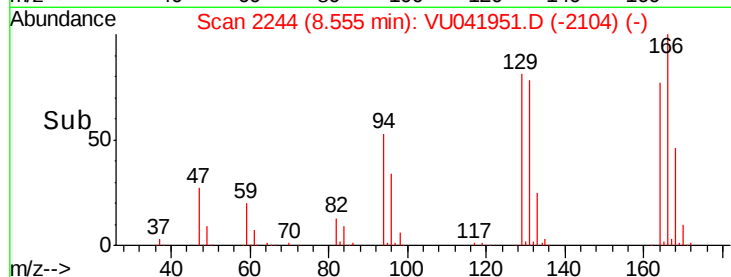
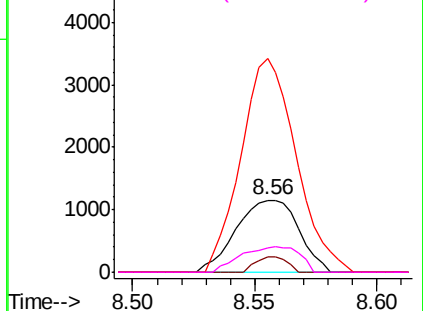
Abundance

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



#47

Tetrachloroethene

Concen: 31.181 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. 0.00 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Tgt Ion:164 Resp: 218155

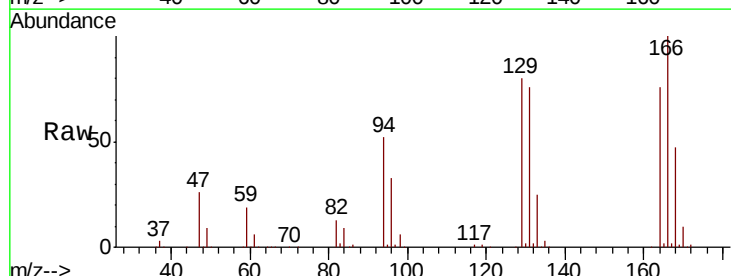
Ion Ratio Lower Upper

164 100

129 105.3 69.2 128.6

131 99.5 69.7 129.5

166 130.9 89.2 165.8



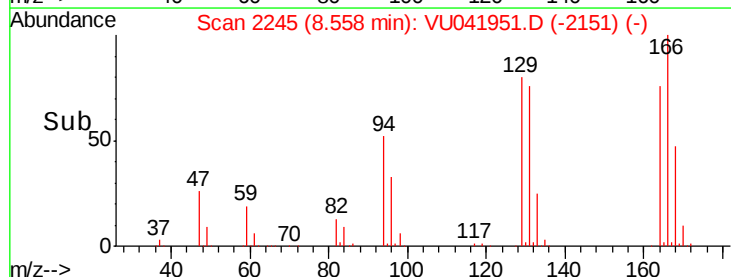
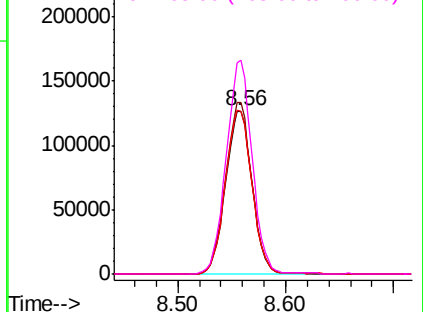
Abundance

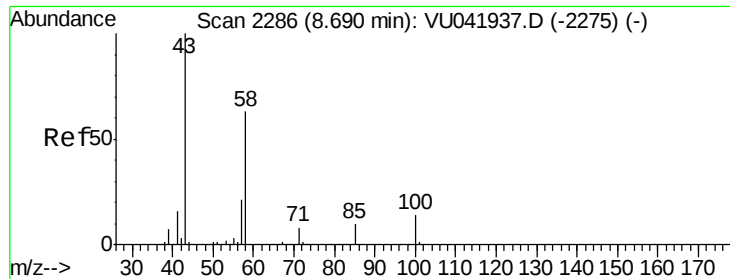
Ion 163.90 (163.60 to 164.60): V

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

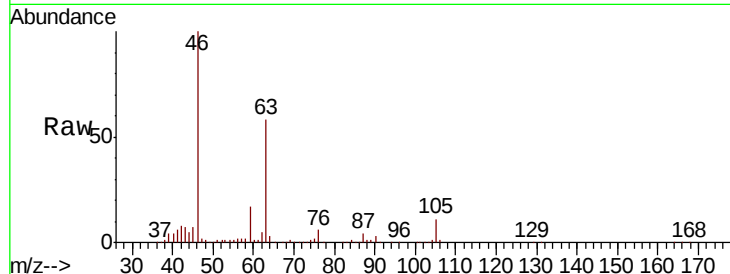




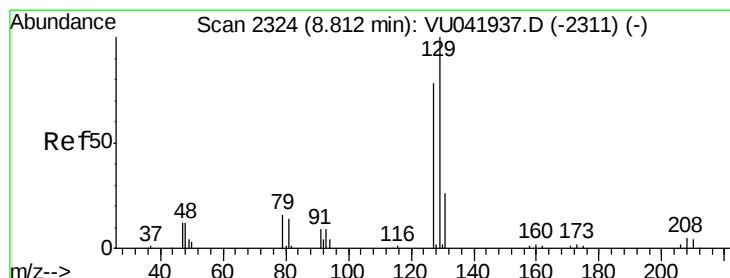
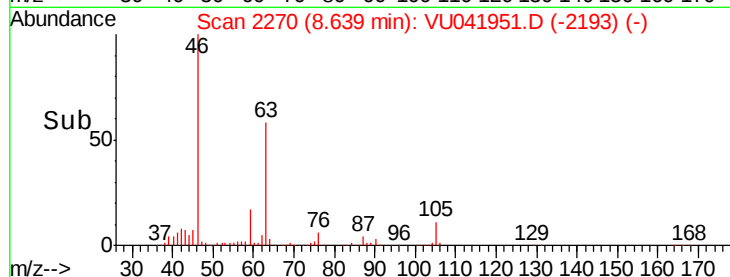
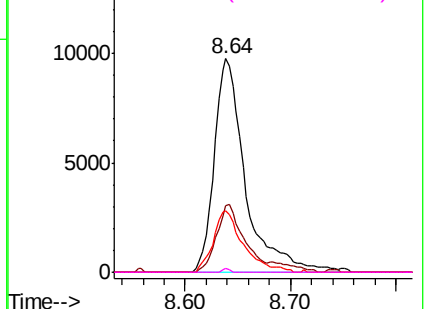
#48
2-Hexanone
Concen: 4.486 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041951.D
Acq: 12 Jan 2021 03:47

Instrument :
MSVOA_U
ClientSampleId :
BFXK8

Tot Ion: 43 Resp: 20054
Ion Ratio Lower Upper
43 100
58 27.6 47.6 71.4#
57 27.7 17.1 25.7#
100 0.4 10.4 15.6#

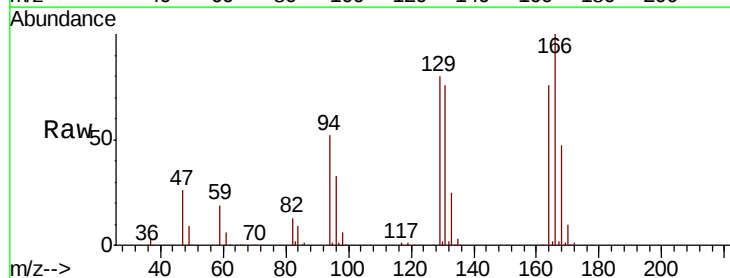


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

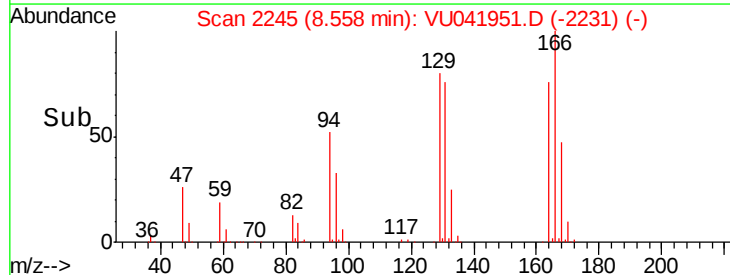
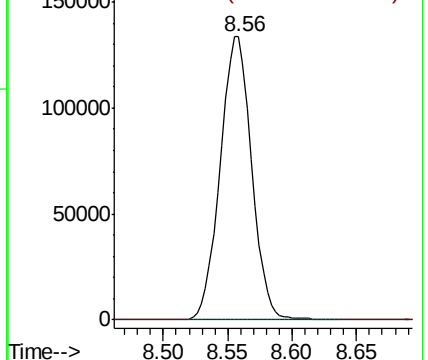


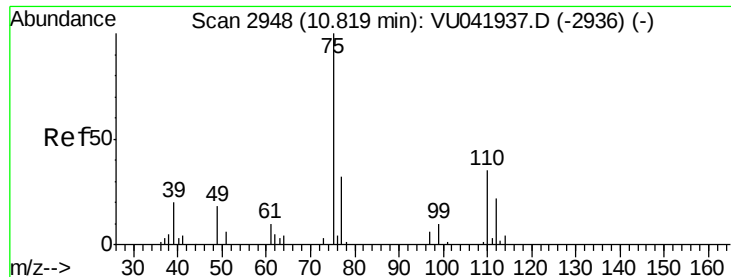
#49
Dibromochloromethane
Concen: 25.061 ug/L
RT: 8.56 min Scan# 2245
Delta R.T. -0.25 min
Lab File: VU041951.D
Acq: 12 Jan 2021 03:47

Tgt Ion: 129 Resp: 223356
Ion Ratio Lower Upper
129 100
127 0.1 54.9 101.9#



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: 0.843 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041951.D

Acq: 12 Jan 2021 03:47

Instrument :

MSVOA_U

ClientSampleId :

BFXK8

Tot Ion: 75 Resp: 5880

Ion Ratio Lower Upper

75 100

77 30.3 27.0 40.4

