

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U110920\
 Data File : VU041150.D
 Acq On : 09 Nov 2020 18:50
 Operator : SY/MD
 Sample : L4646-17
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W1

Quant Time: Nov 10 01:14:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 10 01:04:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	71330	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	67895	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	32558	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	17822	2.97	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	59.40%
7) Chloroethane-d5	1.92	69	17141	3.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.40%
11) 1,1-Dichloroethene-d2	2.58	63	33282	2.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.60%#
20) 2-Butanone-d5	4.67	46	105759	53.59	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.18%
24) Chloroform-d	5.08	84	46704	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.20%
26) 1,2-Dichloroethane-d4	5.72	65	30781	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
32) Benzene-d6	5.74	84	84960	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	6.71	67	30739	5.20	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	104.00%
41) Toluene-d8	7.91	98	72103	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
43) trans-1,3-Dichloropropene-	8.19	79	11402	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.64	63	76406	55.38	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	110.76%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	26726	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.40%
64) 1,2-Dichlorobenzene-d4	12.19	152	30169	5.28	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.60%

Target Compounds

					Ovalue
5) Vinyl chloride	1.61	62	3799	0.567 ug/L	92
8) Chloroethane	1.93	64	131	0.031 ug/L #	43
9) Trichlorofluoromethane	2.43	101	1869	0.205 ug/L #	18
12) 1,1-Dichloroethene	2.59	96	4009	0.796 ug/L #	1
15) Methyl Acetate	3.05	43	2595	0.841 ug/L #	53
18) trans-1,2-Dichloroethene	3.37	96	29354	5.733 ug/L	97
19) 1,1-Dichloroethane	3.89	63	1400	0.137 ug/L #	90
22) cis-1,2-Dichloroethene	4.69	96	1780610	337.126 ug/L	94
25) Chloroform	5.11	83	1676	0.163 ug/L	89
29) 1,1,1-Trichloroethane	5.33	97	8041	0.968 ug/L #	89
30) Cyclohexane	5.41	56	2174	0.266 ug/L	93
31) Carbon tetrachloride	5.33	117	958	0.130 ug/L	96
33) Benzene	5.79	78	18566	0.915 ug/L	100
34) Trichloroethene	6.56	95	6533812	1265.543 ug/L	92
35) Methylcyclohexane	6.70	83	7444	0.967 ug/L #	19
37) 1,2-Dichloropropane	6.70	63	3489	0.636 ug/L #	86
39) cis-1,3-Dichloropropene	7.57	75	856	0.113 ug/L #	56

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110920\
 Data File : VU041150.D
 Acq On : 09 Nov 2020 18:50
 Operator : SY/MD
 Sample : L4646-17
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GB0W1

Quant Time: Nov 10 01:14:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Nov 10 01:04:12 2020
 Response via : Initial Calibration

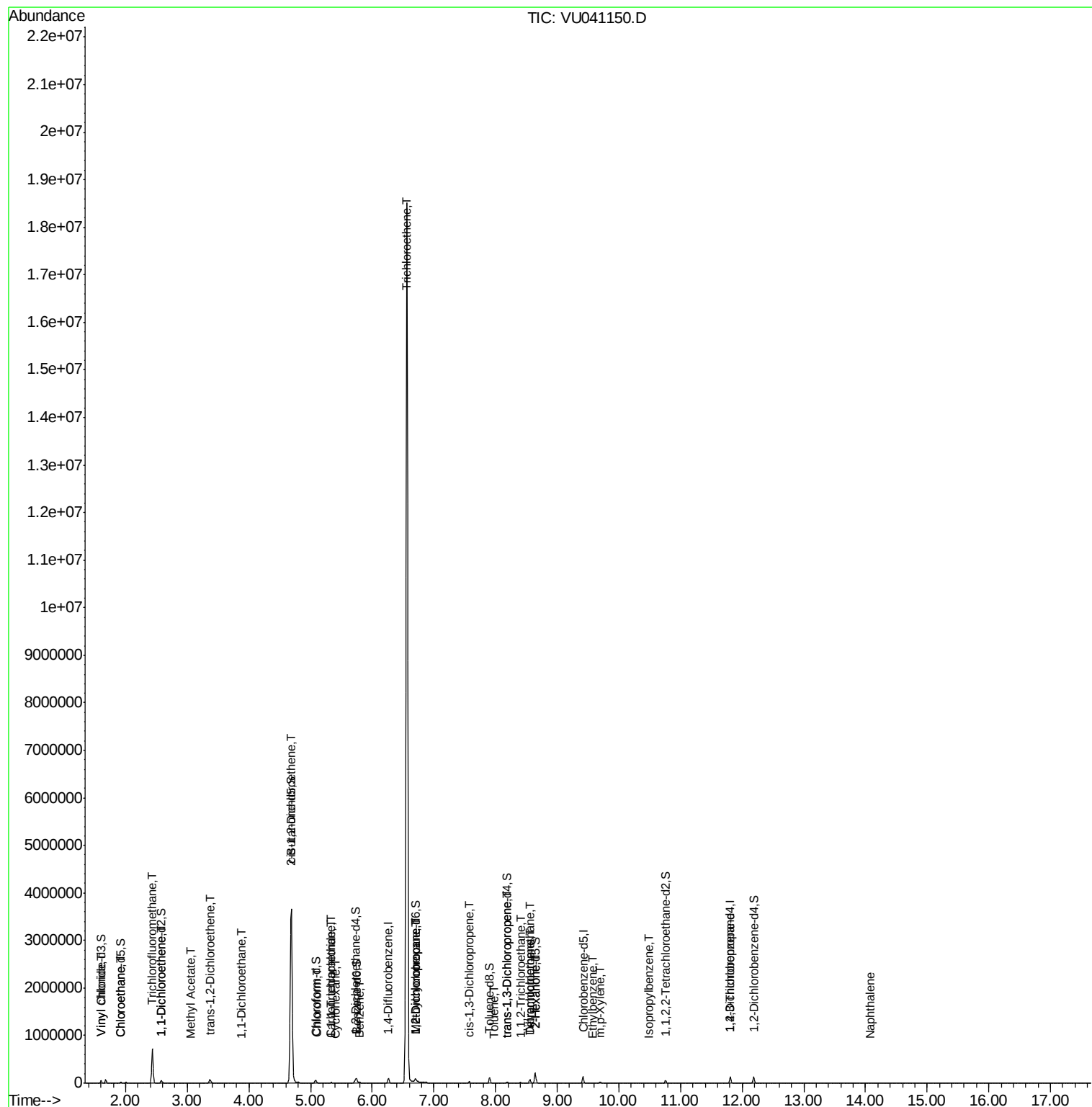
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.98	91	1149	0.056	ug/L #	72
44) trans-1,3-Dichloropropene	8.18	75	551	0.078	ug/L	85
45) 1,1,2-Trichloroethane	8.41	97	3783	0.926	ug/L	83
47) Tetrachloroethene	8.56	164	15926	4.195	ug/L	93
48) 2-Hexanone	8.64	43	10061	3.053	ug/L #	68
49) Dibromochloromethane	8.56	129	15802	3.330	ug/L #	11
52) Ethylbenzene	9.57	91	1474	0.068	ug/L	95
53) m,p-Xylene	9.69	106	4486	0.568	ug/L	100
56) Isopropylbenzene	10.48	105	1232	0.062	ug/L #	82
59) 1,2,3-Trichloropropane	11.81	75	4129	1.009	ug/L #	84
69) Naphthalene	14.08	128	493	0.051	ug/L #	69

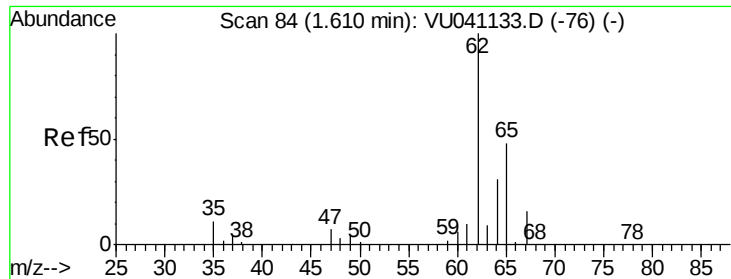
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU110920\
Data File : VU041150.D
Acq On : 09 Nov 2020 18:50
Operator : SY/MD
Sample : L4646-17
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
GB0W1

Quant Time: Nov 10 01:14:36 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR102620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Nov 10 01:04:12 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.567 ug/L

RT: 1.61 min Scan# 83

Delta R.T. -0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampleId :

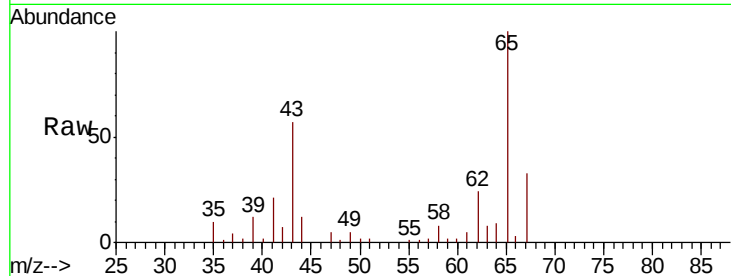
GB0W1

Tot Ion: 62 Resp: 3799

Ion Ratio Lower Upper

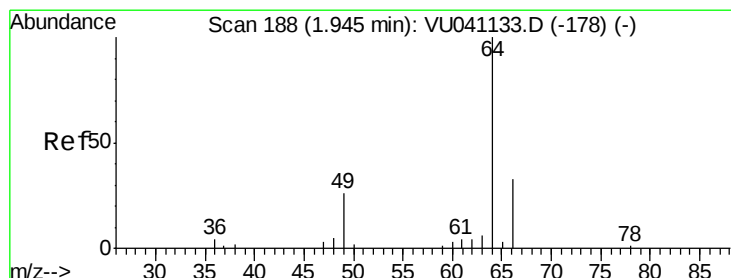
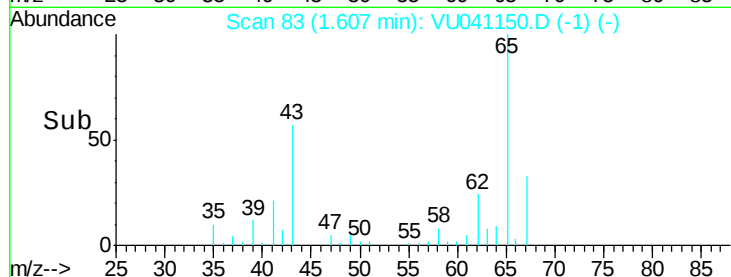
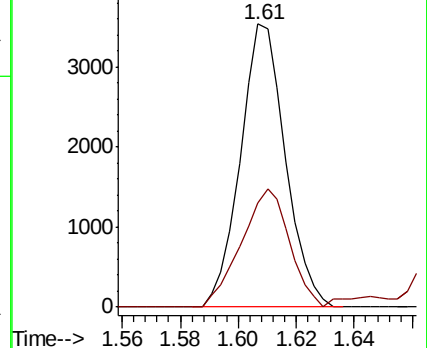
62 100

64 36.8 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#8

Chloroethane

Concen: 0.031 ug/L

RT: 1.93 min Scan# 184

Delta R.T. -0.01 min

Lab File: VU041150.D

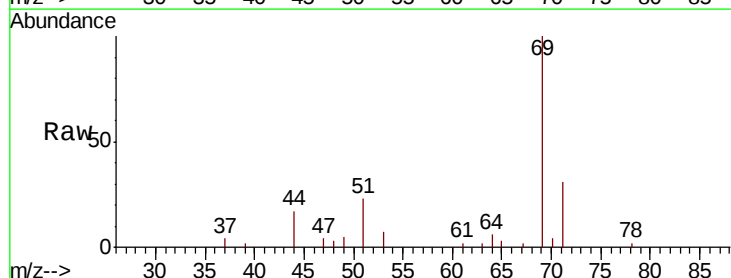
Acq: 09 Nov 2020 18:50

Tgt Ion: 64 Resp: 131

Ion Ratio Lower Upper

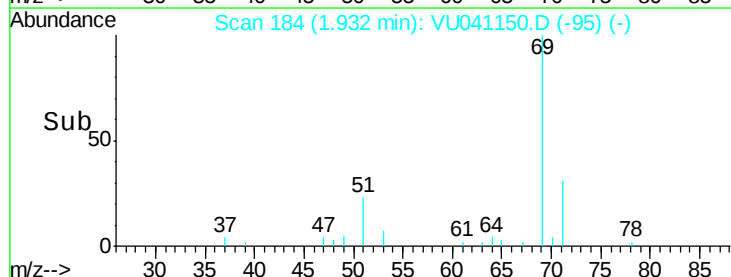
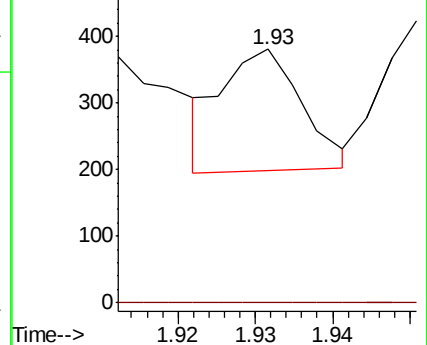
64 100

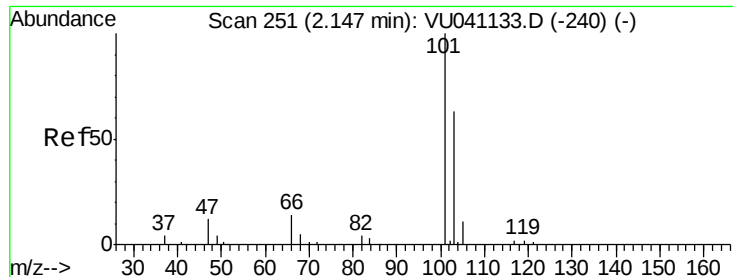
66 0.0 22.3 41.5#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0





#9

Trichlorofluoromethane

Concen: 0.205 ug/L

RT: 2.43 min Scan# 339

Delta R.T. 0.28 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampleId :

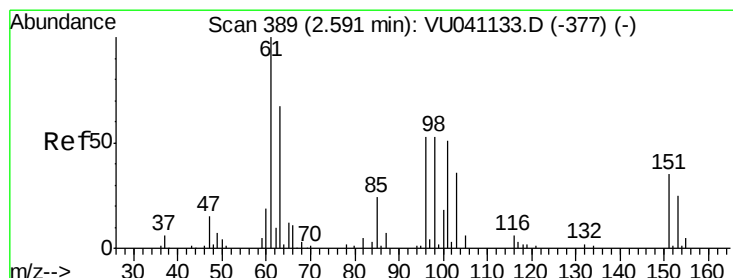
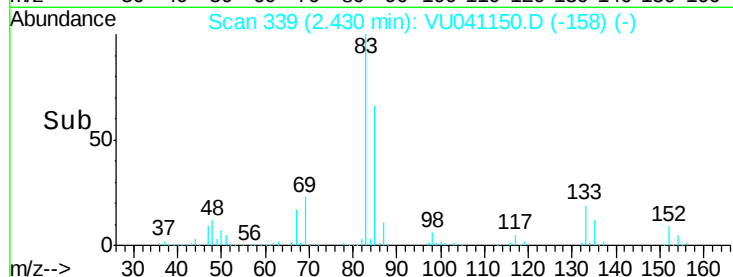
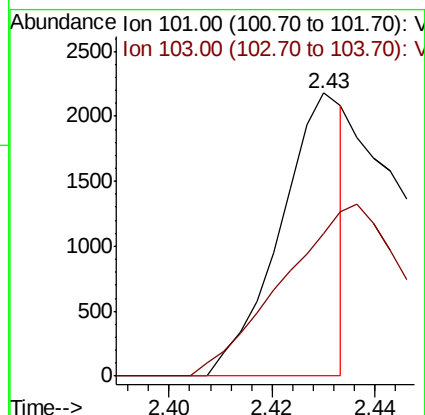
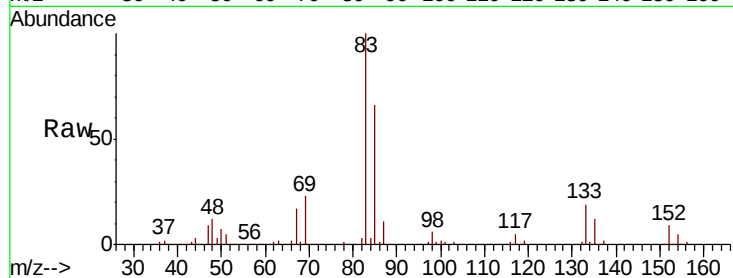
GB0W1

Tot Ion:101 Resp: 1869

Ion Ratio Lower Upper

101 100

103 0.0 51.0 76.4#



#12

1,1-Dichloroethene

Concen: 0.796 ug/L

RT: 2.59 min Scan# 389

Delta R.T. -0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

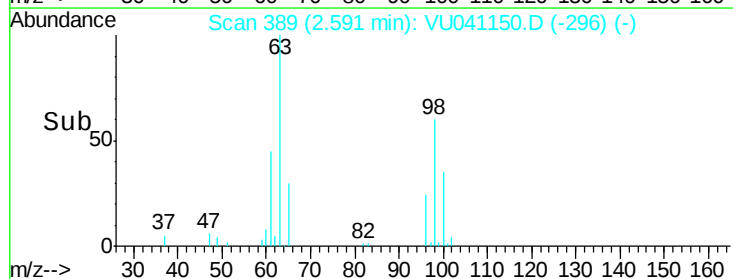
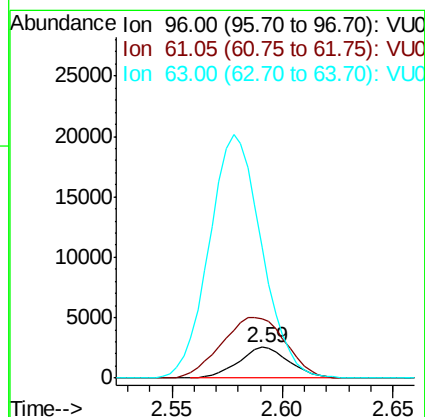
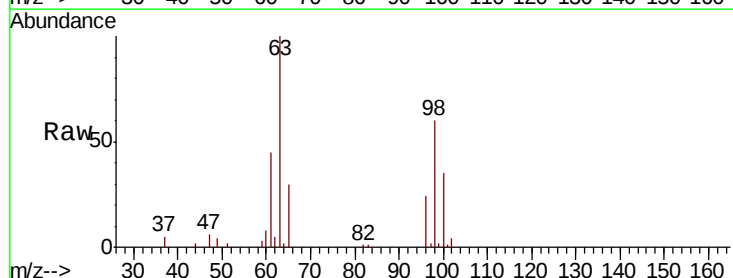
Tgt Ion: 96 Resp: 4009

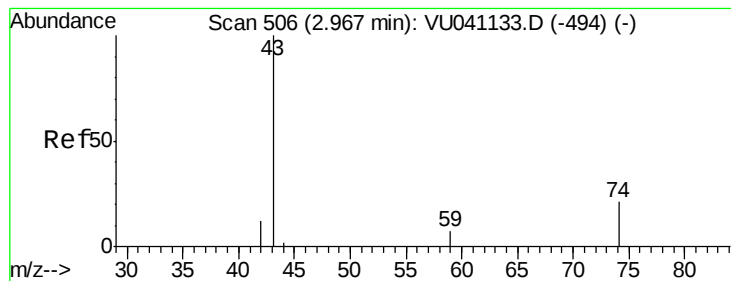
Ion Ratio Lower Upper

96 100

61 192.4 134.3 249.5

63 422.9 95.0 176.4#





#15

Methyl Acetate

Concen: 0.841 ug/L

RT: 3.05 min Scan# 533

Delta R.T. 0.09 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampleId :

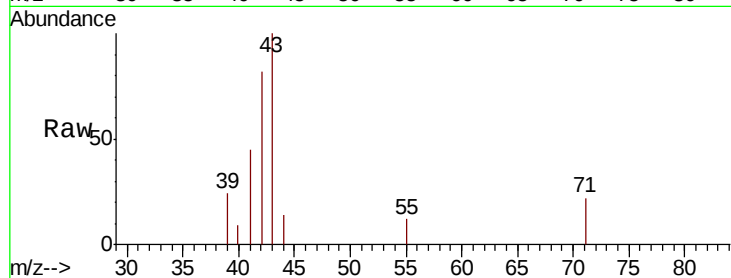
GB0W1

Tot Ion: 43 Resp: 2595

Ion Ratio Lower Upper

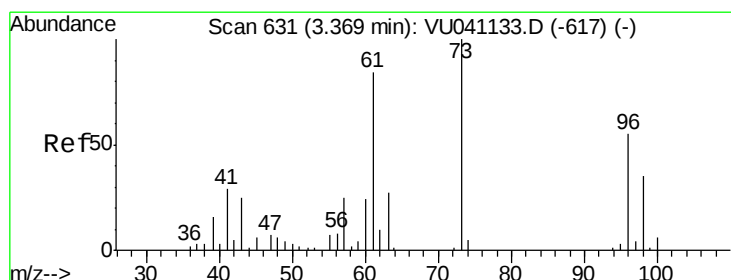
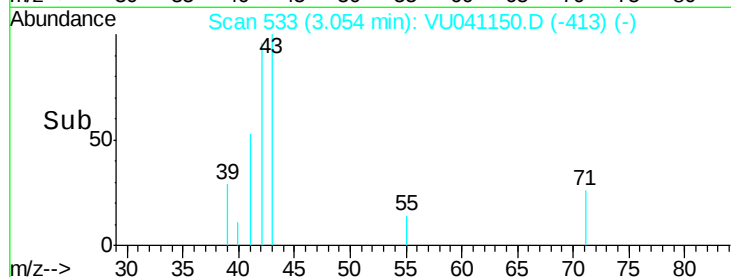
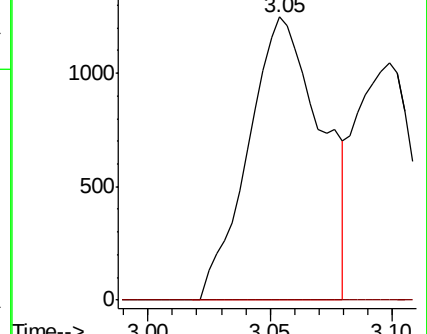
43 100

74 0.0 18.3 27.5#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 74.05 (73.75 to 74.75): VU0



#18

trans-1,2-Dichloroethene

Concen: 5.733 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

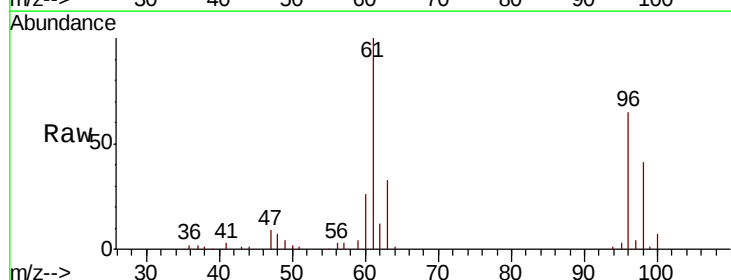
Tgt Ion: 96 Resp: 29354

Ion Ratio Lower Upper

96 100

61 154.1 110.9 205.9

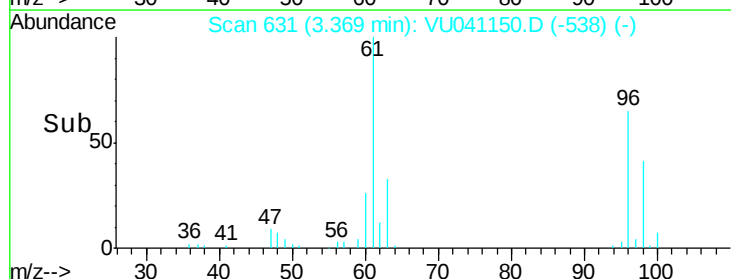
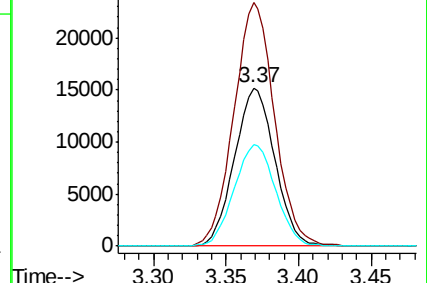
98 63.9 45.4 84.2

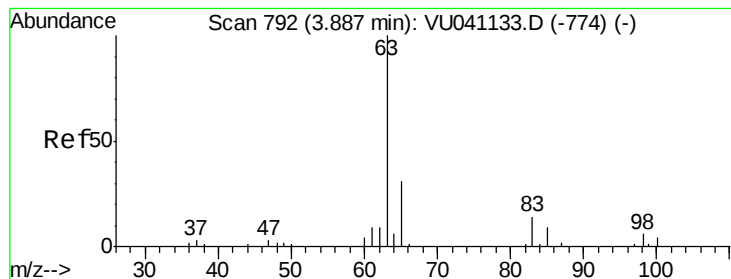


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 97.95 (97.65 to 98.65): VU0





#19

1,1-Dichloroethane

Concen: 0.137 ug/L

RT: 3.89 min Scan# 792

Delta R.T. -0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampleId :

GB0W1

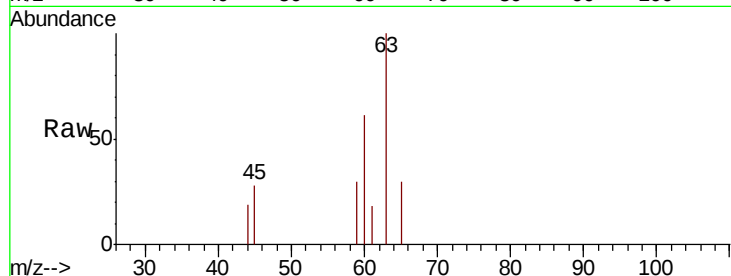
Tot Ion: 63 Resp: 1400

Ion Ratio Lower Upper

63 100

65 29.7 21.3 39.6

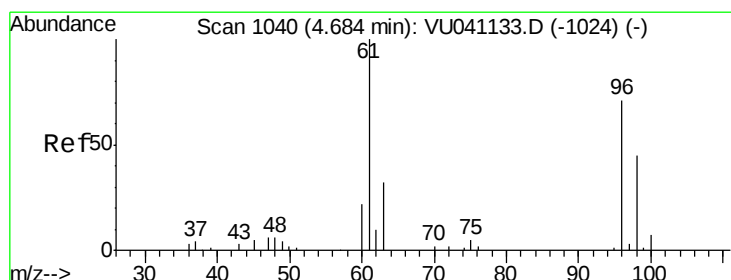
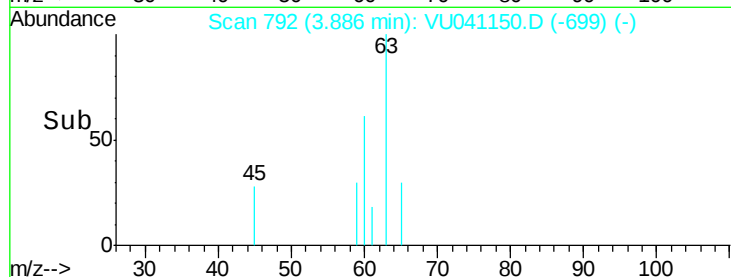
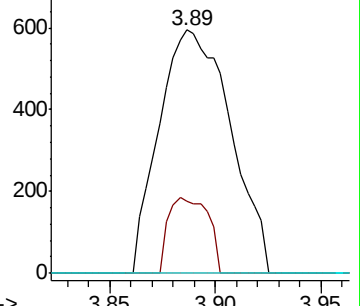
83 0.0 8.8 16.3#



Abundance Ion 63.10 (62.80 to 63.80): VU041150.D (-699) (-)

Ion 65.10 (64.80 to 65.80): VU041150.D (-699) (-)

Ion 83.05 (82.75 to 83.75): VU041150.D (-699) (-)



#22

cis-1,2-Dichloroethene

Concen: 337.126 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

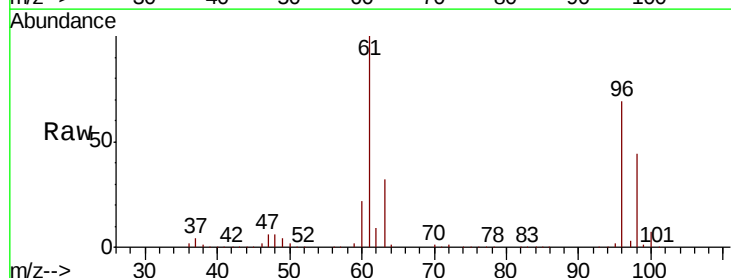
Tgt Ion: 96 Resp: 1780610

Ion Ratio Lower Upper

96 100

61 145.8 97.2 180.4

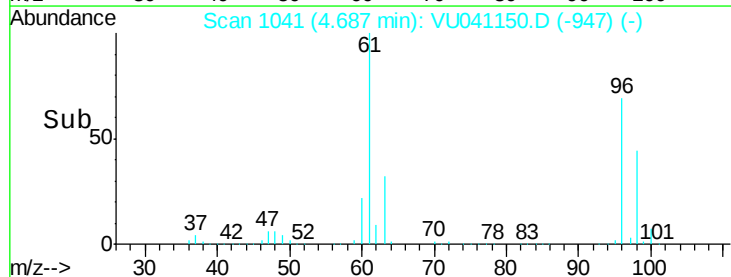
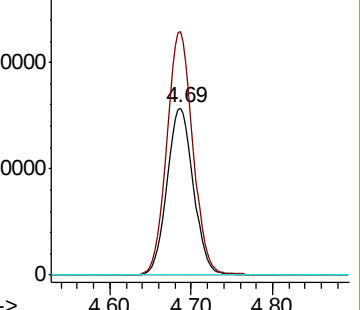
68 0.0 0.0 0.0

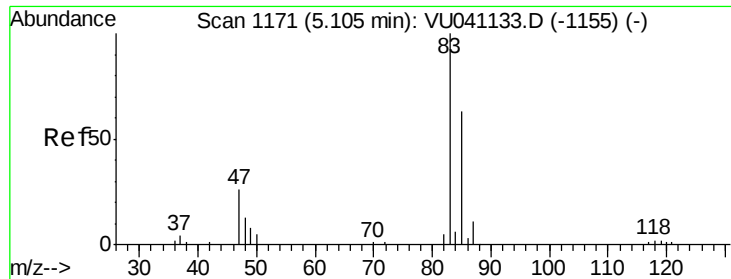


Abundance Ion 96.00 (95.70 to 96.70): VU041150.D (-947) (-)

Ion 61.05 (60.75 to 61.75): VU041150.D (-947) (-)

Ion 68.15 (67.85 to 68.85): VU041150.D (-947) (-)

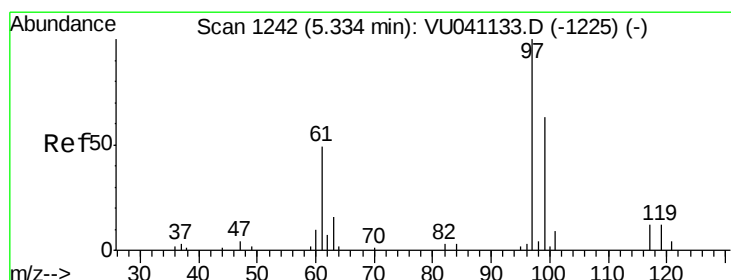
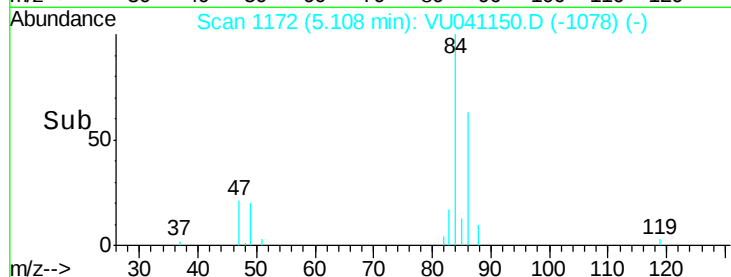
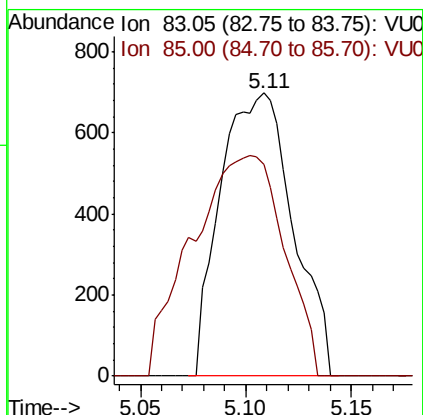
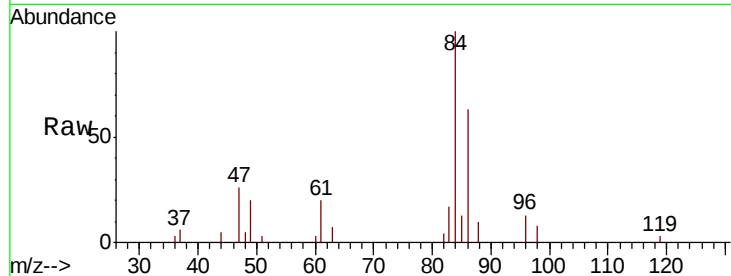




#25
Chloroform
Concen: 0.163 ug/L
RT: 5.11 min Scan# 1172
Delta R.T. 0.00 min
Lab File: VU041150.D
Acq: 09 Nov 2020 18:50

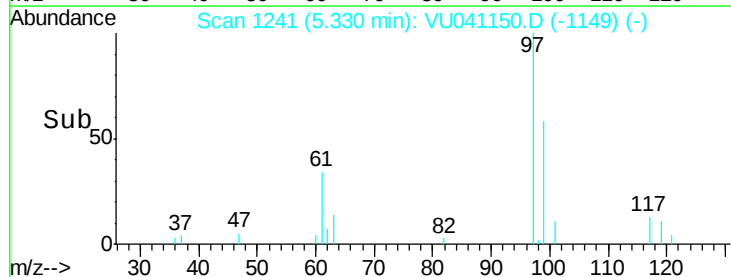
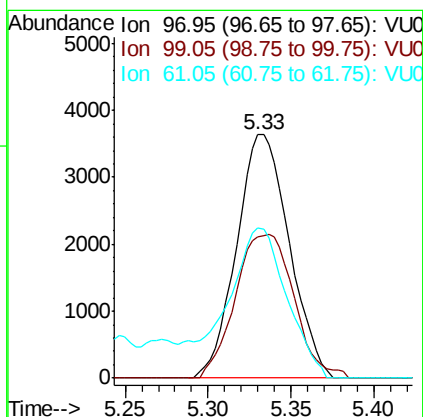
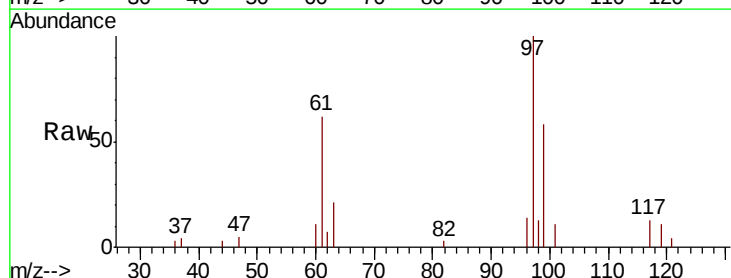
Instrument :
MSVOA_U
ClientSampleId :
GB0W1

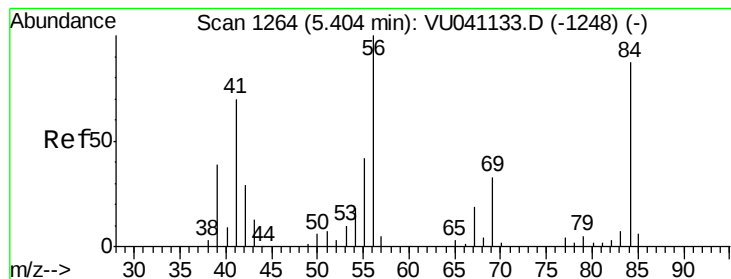
Tot Ion: 83 Resp: 1676
Ion Ratio Lower Upper
83 100
85 74.9 46.1 85.7



#29
1,1,1-Trichloroethane
Concen: 0.968 ug/L
RT: 5.33 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VU041150.D
Acq: 09 Nov 2020 18:50

Tgt Ion: 97 Resp: 8041
Ion Ratio Lower Upper
97 100
99 65.7 53.4 80.0
61 68.2 41.6 62.4#





#30

Cyclohexane

Concen: 0.266 ug/L

RT: 5.41 min Scan# 1265

Delta R.T. 0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampleId :

GB0W1

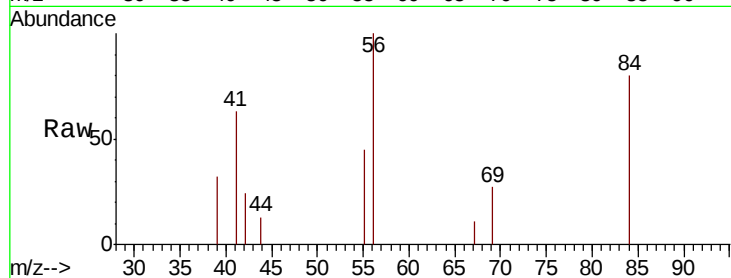
Tot Ion: 56 Resp: 2174

Ion Ratio Lower Upper

56 100

69 23.7 22.8 34.2

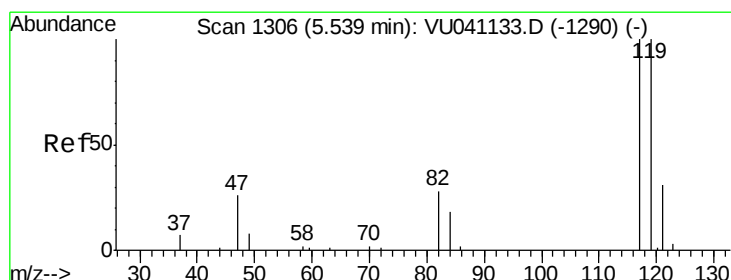
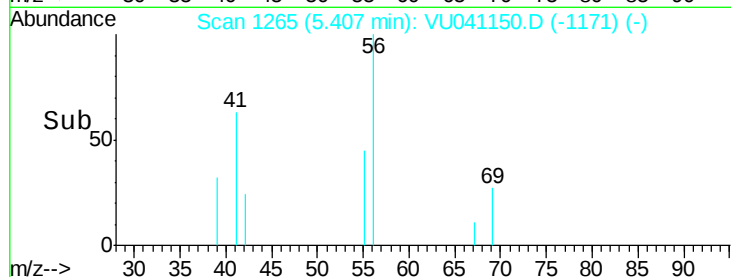
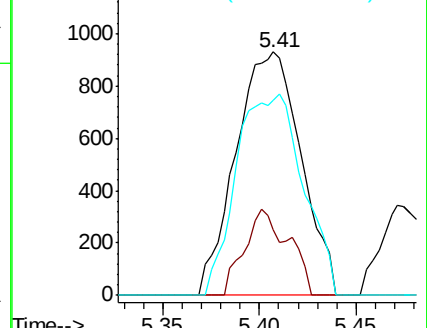
84 84.5 63.6 95.4



Abundance Ion 56.10 (55.80 to 56.80): VU041133.D (-1248) (-)

Ion 69.15 (68.85 to 69.85): VU041133.D (-1248) (-)

Ion 84.15 (83.85 to 84.85): VU041133.D (-1248) (-)



#31

Carbon tetrachloride

Concen: 0.130 ug/L

RT: 5.33 min Scan# 1241

Delta R.T. -0.21 min

Lab File: VU041150.D

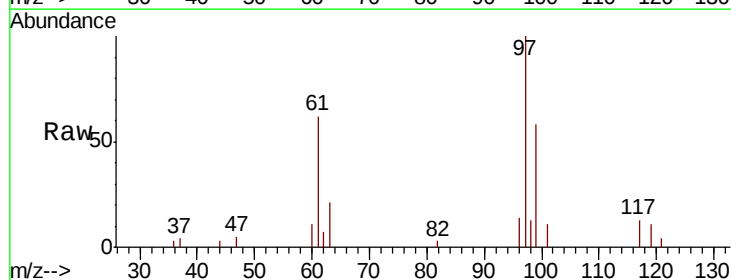
Acq: 09 Nov 2020 18:50

Tgt Ion: 117 Resp: 958

Ion Ratio Lower Upper

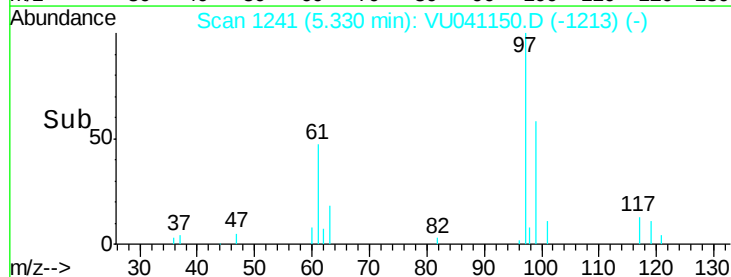
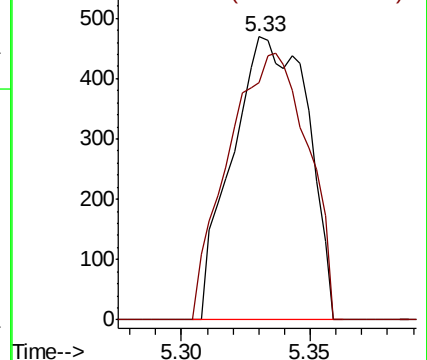
117 100

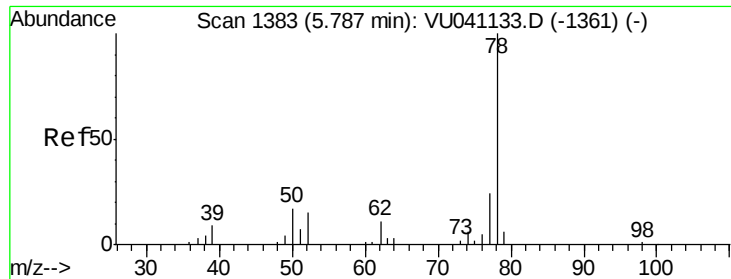
119 99.1 76.1 114.1



Abundance Ion 116.90 (116.60 to 117.60): VU041133.D (-1290) (-)

Ion 118.90 (118.60 to 119.60): VU041133.D (-1290) (-)





#33

Benzene

Concen: 0.915 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. 0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

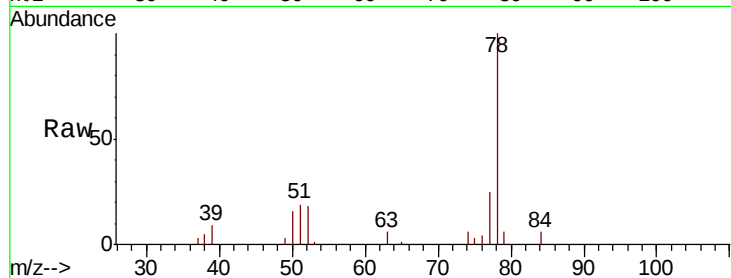
Instrument :

MSVOA_U

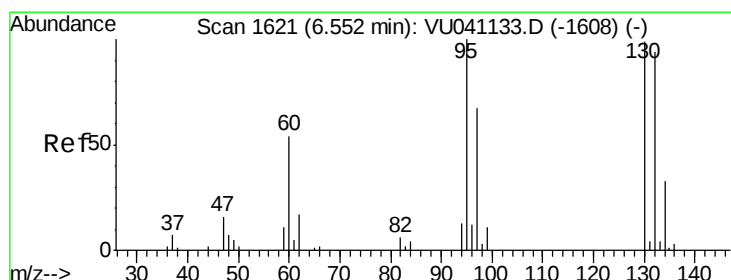
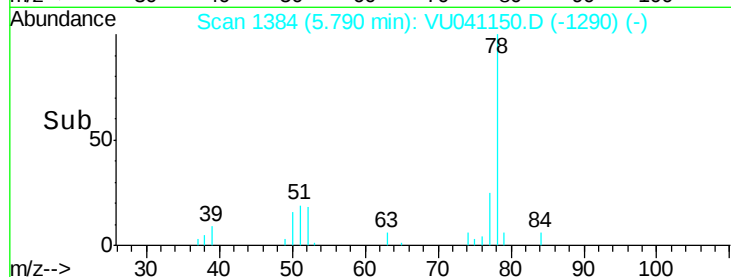
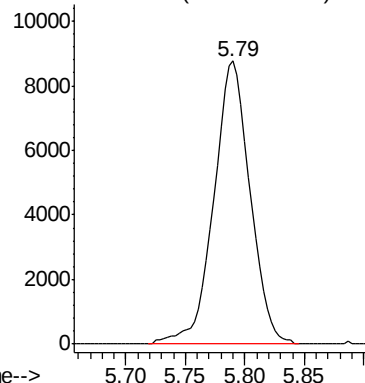
ClientSampleId :

GB0W1

Tgt Ion: 78 Resp: 18566



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 1265.543 ug/L

RT: 6.56 min Scan# 1624

Delta R.T. 0.01 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Tgt Ion: 95 Resp: 6533812

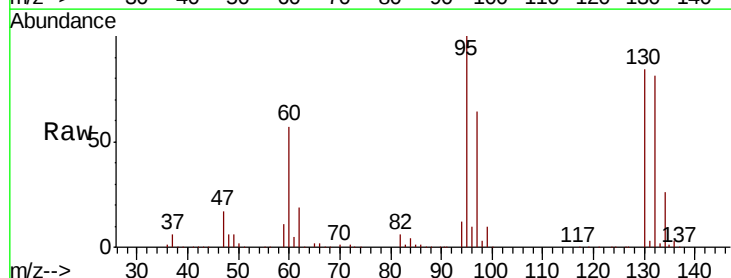
Ion	Ratio	Lower	Upper
95	100		
97	64.2	45.6	84.6
132	80.9	64.8	120.4
130	84.4	64.8	120.4

95 100

97 64.2 45.6 84.6

132 80.9 64.8 120.4

130 84.4 64.8 120.4

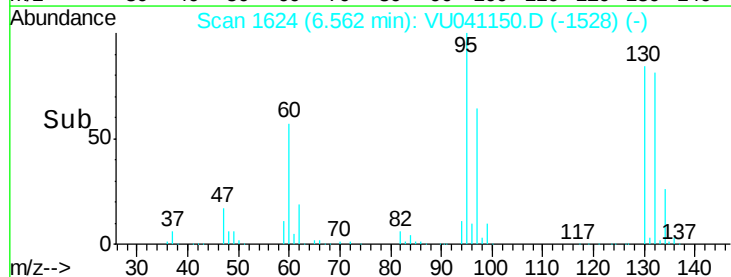
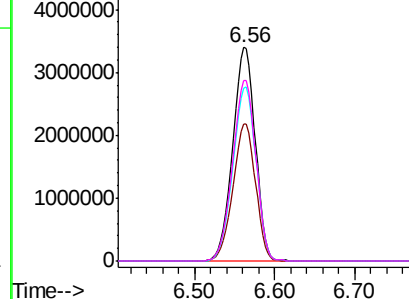


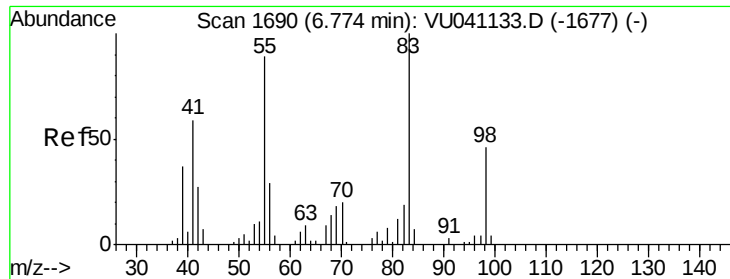
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): VU0

Ion 129.95 (129.65 to 130.65): VU0

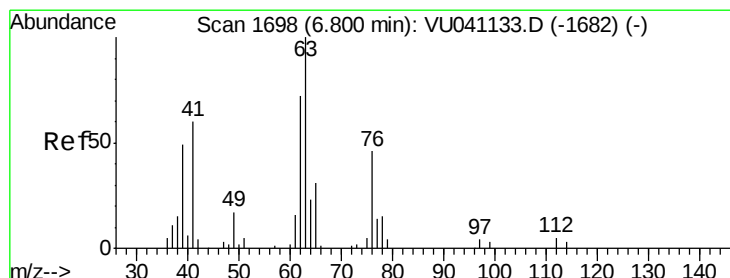
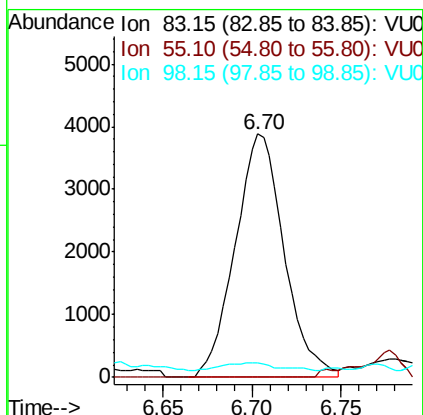
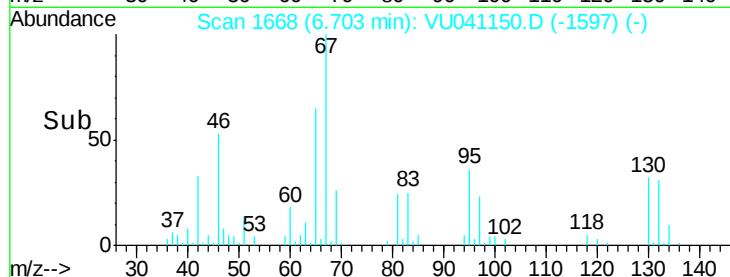
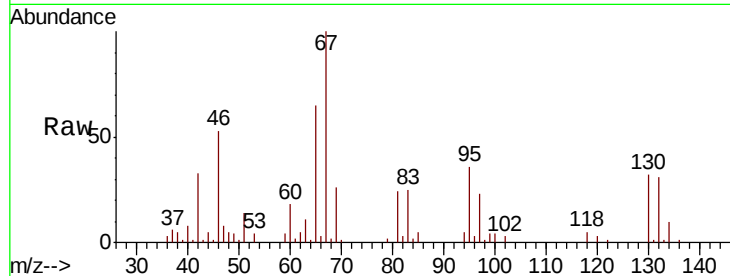




#35
Methvlcvclohexane
Concen: 0.967 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041150.D
Acq: 09 Nov 2020 18:50

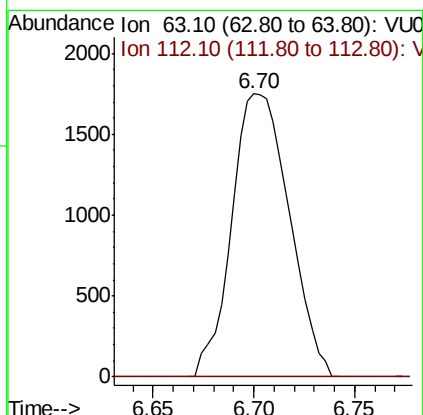
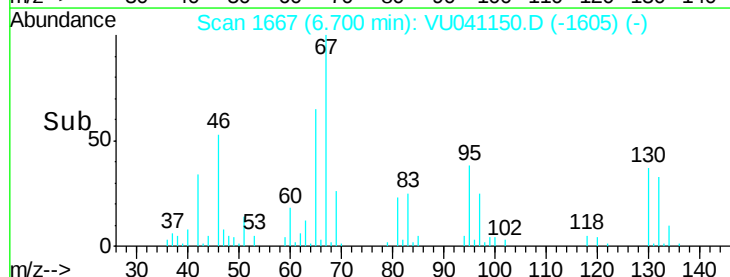
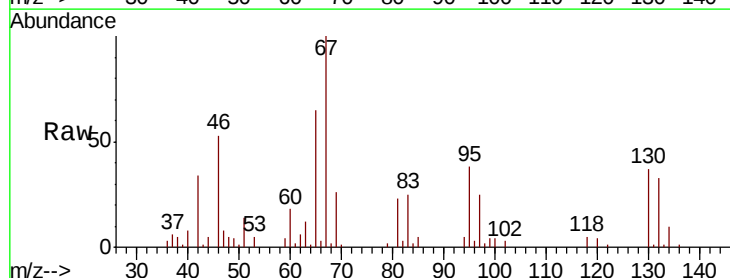
Instrument :
MSVOA_U
ClientSampleId :
GB0W1

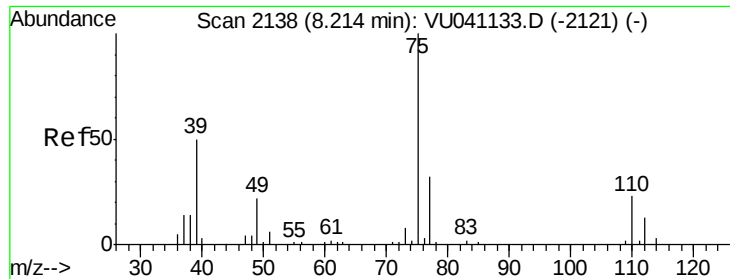
Tot Ion: 83 Resp: 7444
Ion Ratio Lower Upper
83 100
55 8.6 72.0 108.0#
98 0.0 36.6 55.0#



#37
1,2-Dichloropropane
Concen: 0.636 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041150.D
Acq: 09 Nov 2020 18:50

Tgt Ion: 63 Resp: 3489
Ion Ratio Lower Upper
63 100
112 0.0 3.6 5.4#





#44

trans-1,3-Dichloropropene

Concen: 0.078 ug/L

RT: 8.18 min Scan# 2128

Delta R.T. -0.03 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampleId :

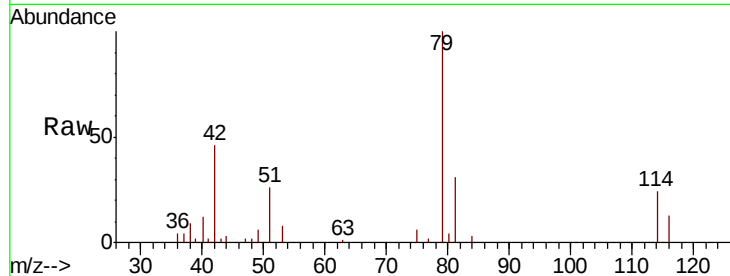
GB0W1

Tot Ion: 75 Resp: 551

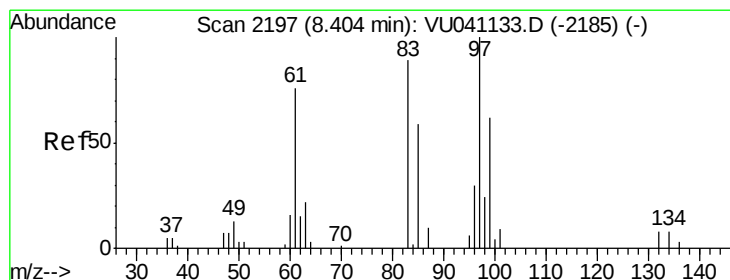
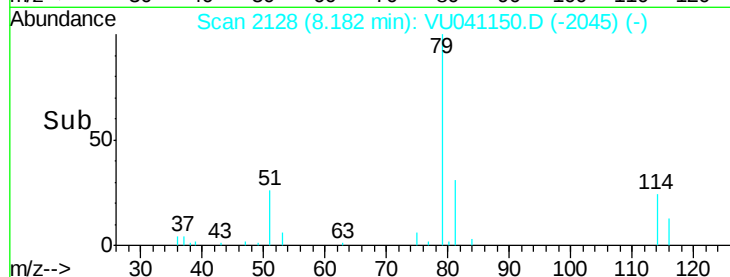
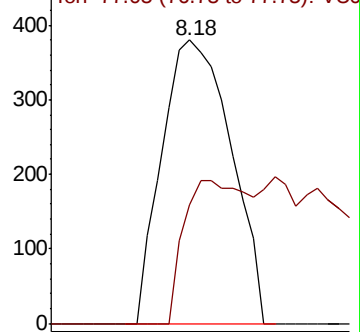
Ion Ratio Lower Upper

75 100

77 41.8 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU041133.D (-2121) (-)



#45

1,1,2-Trichloroethane

Concen: 0.926 ug/L

RT: 8.41 min Scan# 2198

Delta R.T. 0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Tgt Ion: 97 Resp: 3783

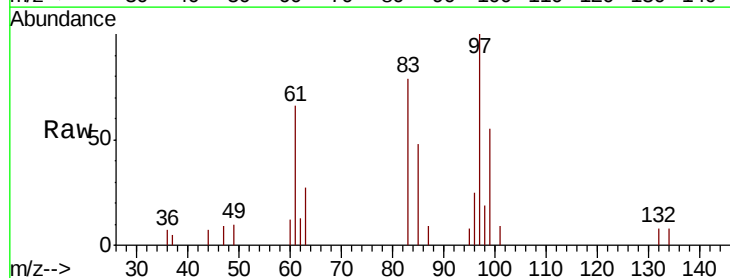
Ion Ratio Lower Upper

97 100

99 55.2 45.8 85.2

83 79.1 67.9 126.1

85 47.5 42.8 79.6

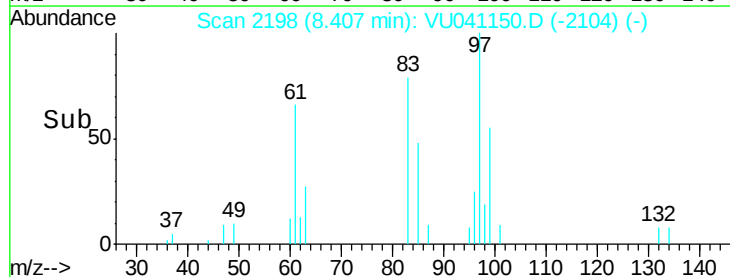
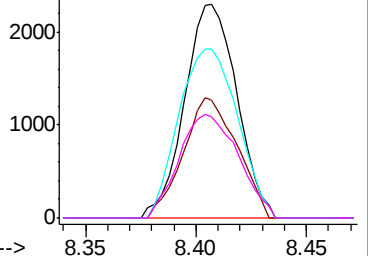


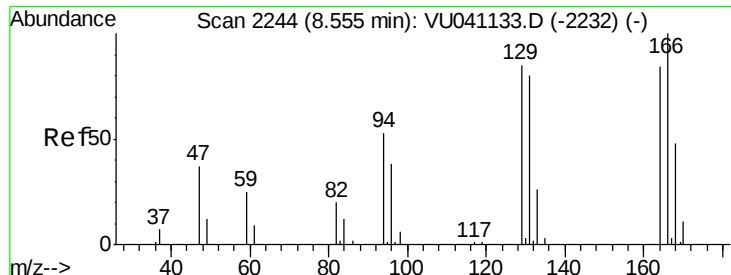
Abundance Ion 96.95 (96.65 to 97.65): VU041133.D (-2185) (-)

Ion 99.05 (98.75 to 99.75): VU041133.D (-2185) (-)

Ion 82.95 (82.65 to 83.65): VU041133.D (-2185) (-)

Ion 85.00 (84.70 to 85.70): VU041133.D (-2185) (-)

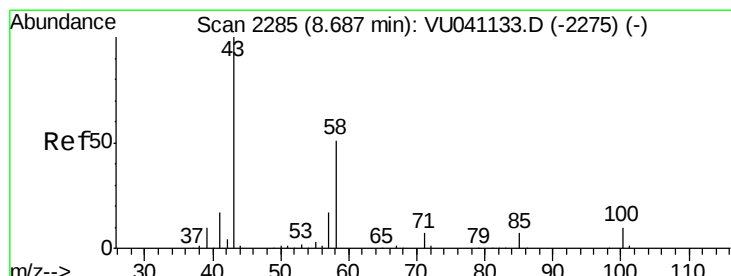
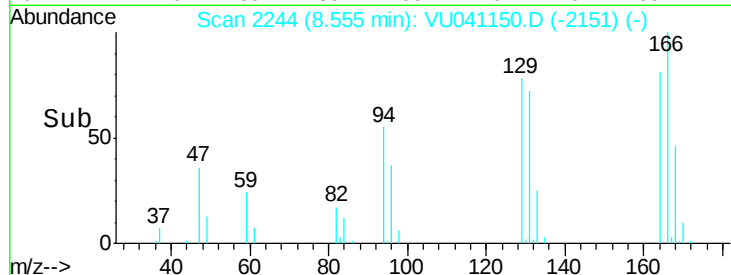
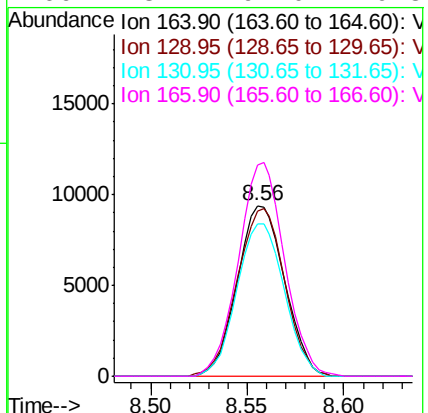
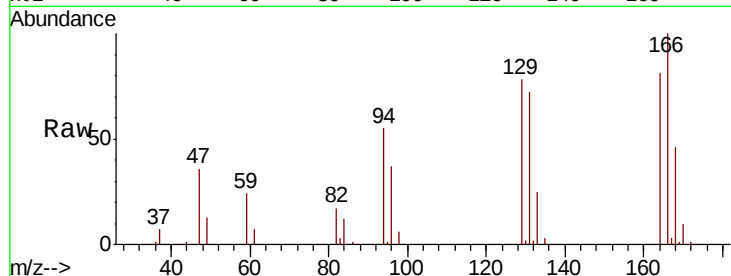




#47
Tetrachloroethene
Concen: 4.195 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.00 min
Lab File: VU041150.D
Acq: 09 Nov 2020 18:50

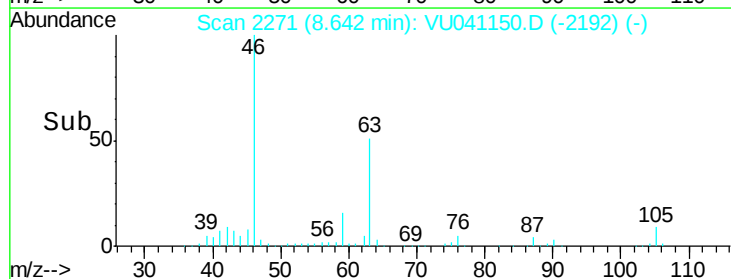
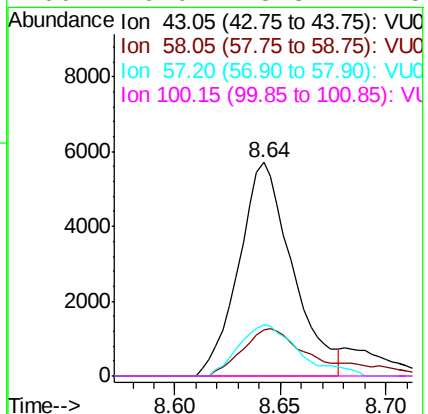
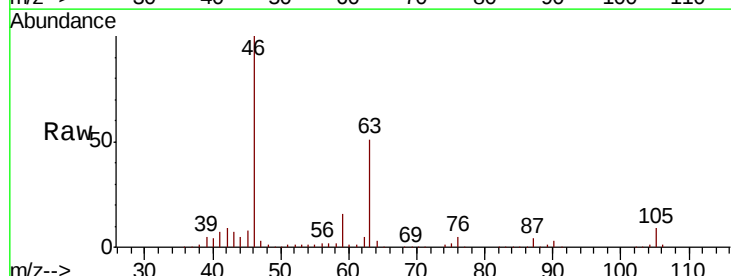
Instrument :
MSVOA_U
ClientSampleId :
GB0W1

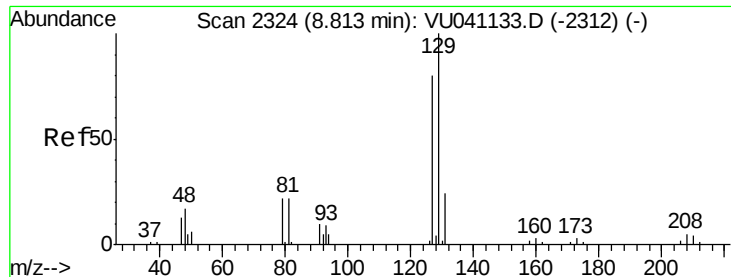
Tot Ion:164 Resp: 15926
Ion Ratio Lower Upper
164 100
129 96.4 70.3 130.7
131 88.9 70.8 131.4
166 123.7 92.0 170.8



#48
2-Hexanone
Concen: 3.053 ug/L
RT: 8.64 min Scan# 2271
Delta R.T. -0.05 min
Lab File: VU041150.D
Acq: 09 Nov 2020 18:50

Tgt Ion: 43 Resp: 10061
Ion Ratio Lower Upper
43 100
58 25.3 41.4 62.2#
57 26.7 14.6 21.8#
100 0.0 8.3 12.5#





#49

Dibromochloromethane

Concen: 3.330 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampleId :

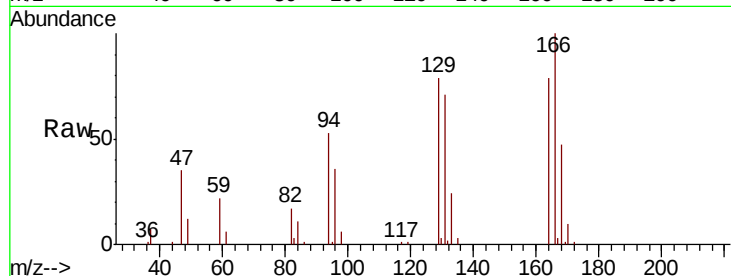
GB0W1

Tot Ion:129 Resp: 15802

Ion Ratio Lower Upper

129 100

127 0.0 53.4 99.2#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.56

10000

8000

6000

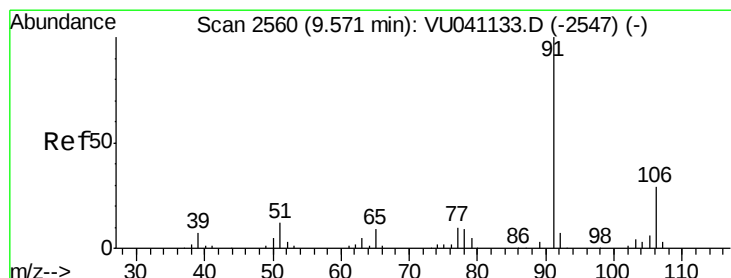
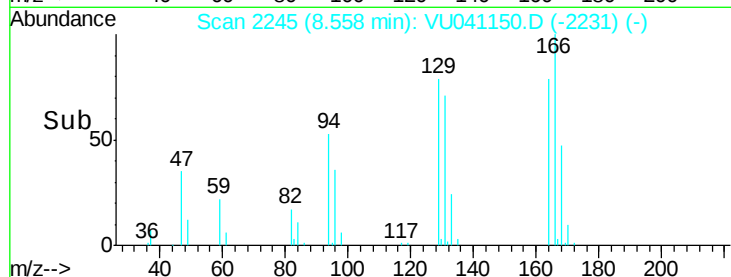
4000

2000

0

Time-->

8.50 8.55 8.60



#52

Ethylbenzene

Concen: 0.068 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU041150.D

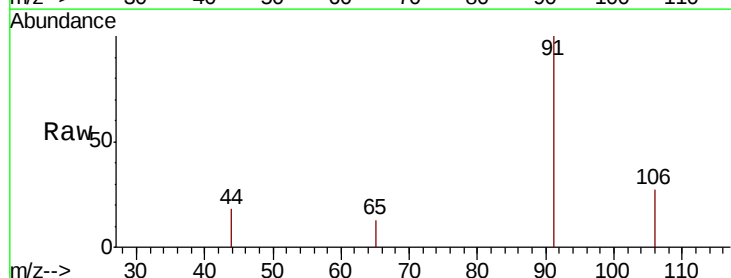
Acq: 09 Nov 2020 18:50

Tgt Ion: 91 Resp: 1474

Ion Ratio Lower Upper

91 100

106 27.2 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

9.57

1000

800

600

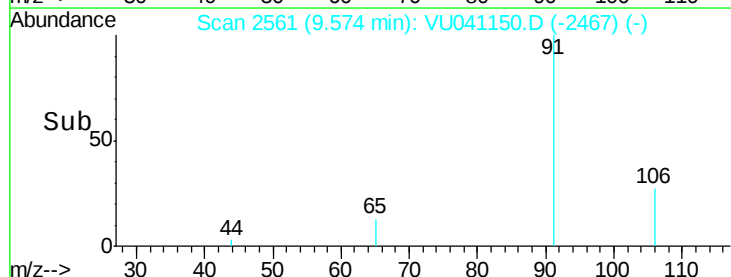
400

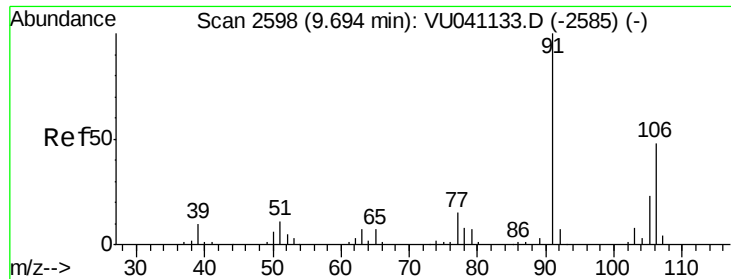
200

0

Time-->

9.55 9.60





#53

m,p-Xylene

Concen: 0.568 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampled :

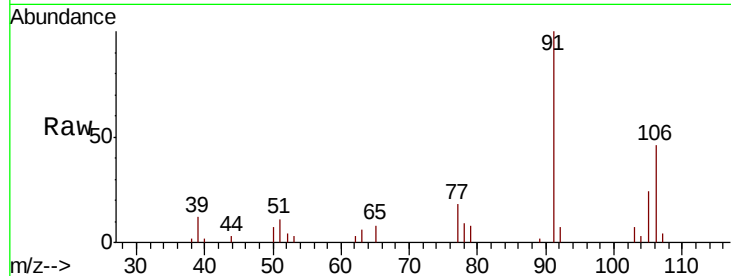
GB0W1

Tot Ion:106 Resp: 4486

Ion Ratio Lower Upper

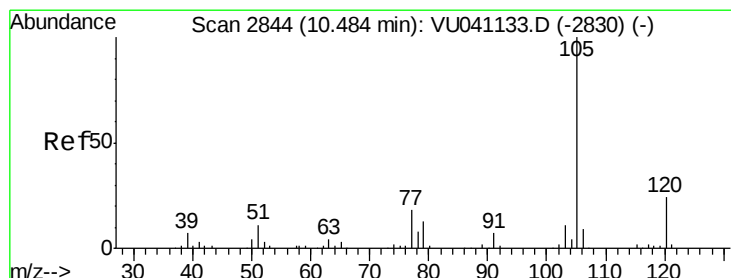
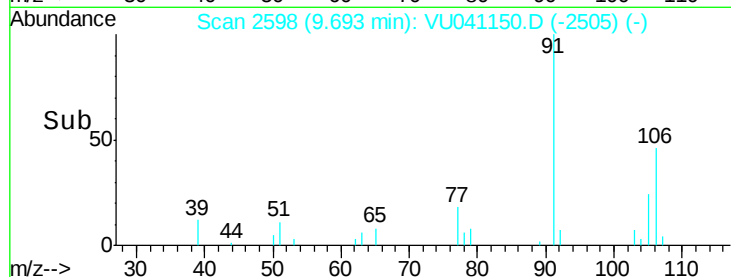
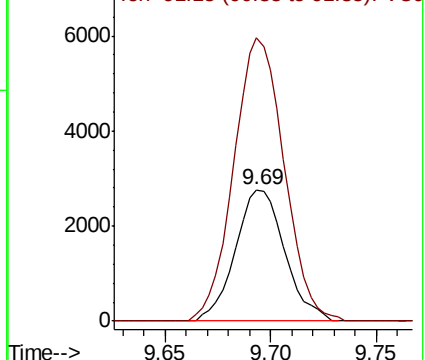
106 100

91 215.3 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#56

Isopropylbenzene

Concen: 0.062 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. -0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

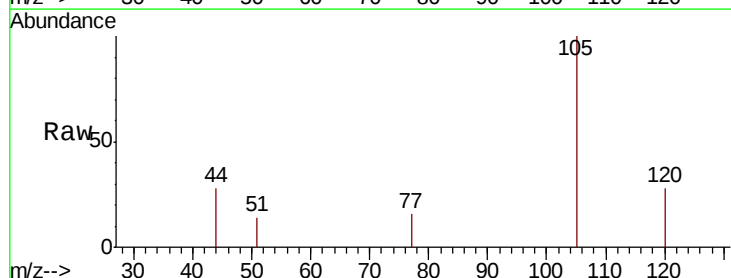
Tgt Ion:105 Resp: 1232

Ion Ratio Lower Upper

105 100

120 17.0 20.7 31.1#

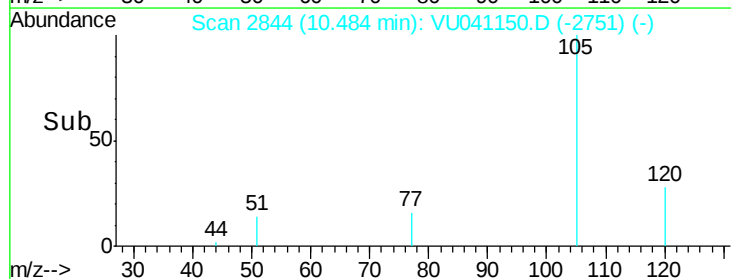
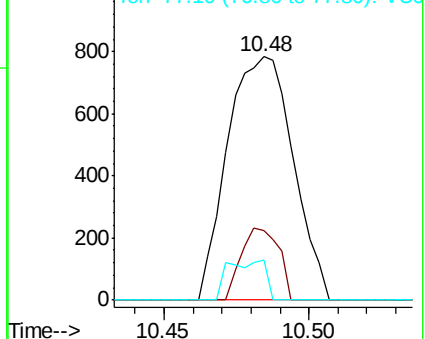
77 9.2 13.8 20.6#

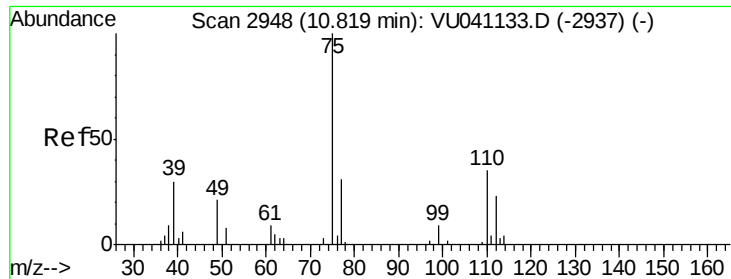


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VU0





#59

1,2,3-Trichloropropane

Concen: 1.009 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

Instrument :

MSVOA_U

ClientSampled :

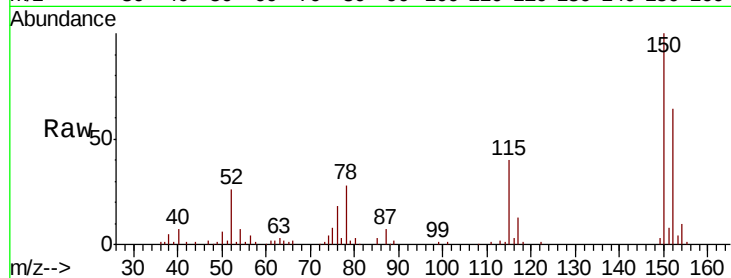
GB0W1

Tot Ion: 75 Resp: 4129

Ion Ratio Lower Upper

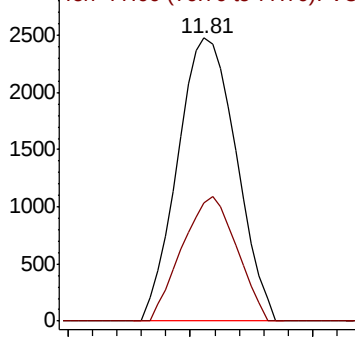
75 100

77 41.0 25.7 38.5#

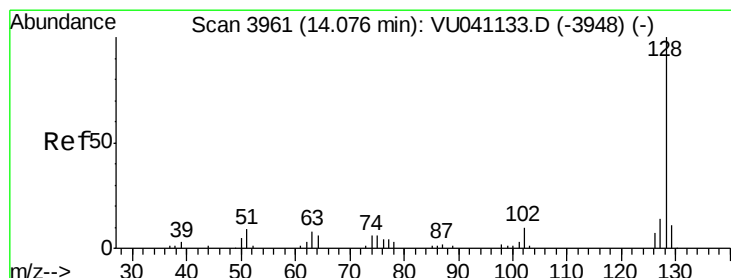
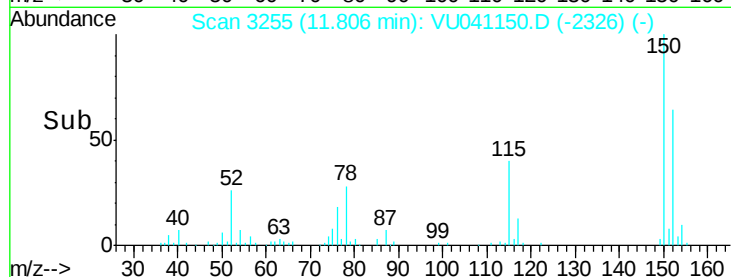


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



Time--> 11.75 11.80 11.85



#69

Naphthalene

Concen: 0.051 ug/L

RT: 14.08 min Scan# 3962

Delta R.T. 0.00 min

Lab File: VU041150.D

Acq: 09 Nov 2020 18:50

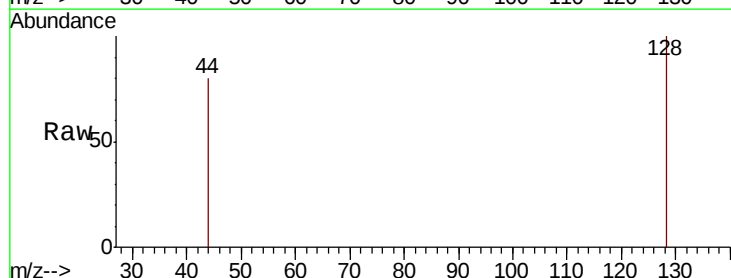
Tgt Ion: 128 Resp: 493

Ion Ratio Lower Upper

128 100

129 0.0 8.7 13.1#

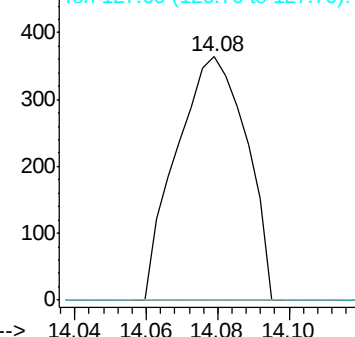
127 0.0 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



Time--> 14.04 14.06 14.08 14.10

