

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041885.D
 Acq On : 07 Jan 2021 20:16
 Operator : SY/MD
 Sample : M1026-16
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 08 05:01:52 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	143489	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	131752	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	57154	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	41499	3.70	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.00%
7) Chloroethane-d5	1.92	69	45354	5.22	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	104.40%
11) 1,1-Dichloroethene-d2	2.58	63	69637	3.37	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.40%
20) 2-Butanone-d5	4.65	46	173365	53.80	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.60%
24) Chloroform-d	5.08	84	104409	5.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.60%
26) 1,2-Dichloroethane-d4	5.72	65	58564	5.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.40%
32) Benzene-d6	5.74	84	197388	5.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	104.60%
36) 1,2-Dichloropropane-d6	6.70	67	66432	5.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.40%
41) Toluene-d8	7.91	98	159018	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
43) trans-1,3-Dichloropropene-	8.18	79	23828	4.48	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.60%
46) 2-Hexanone-d5	8.64	63	143705	49.43	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.86%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	59667	5.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	60308	5.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	118.60%

Target Compounds

					Ovalue
3) Chloromethane	1.53	50	2238	0.189 ug/L	93
8) Chloroethane	2.08	64	812	0.092 ug/L	86
9) Trichlorofluoromethane	2.15	101	15439	0.935 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	1143	0.116 ug/L #	51
12) 1,1-Dichloroethene	2.59	96	10652	1.094 ug/L #	1
16) Methylene chloride	3.06	84	31800	2.735 ug/L	89
17) Methyl tert-butyl Ether	3.38	73	21966	0.846 ug/L	99
19) 1,1-Dichloroethane	3.89	63	44090	2.343 ug/L	97
22) cis-1,2-Dichloroethene	4.68	96	1500	0.135 ug/L	89
25) Chloroform	5.11	83	21439	1.131 ug/L	97
27) 1,2-Dichloroethane	5.81	62	3488	0.272 ug/L #	91
29) 1,1,1-Trichloroethane	5.33	97	29353	1.940 ug/L	98
31) Carbon tetrachloride	5.33	117	3752	0.287 ug/L	98
34) Trichloroethene	6.55	95	23195	2.191 ug/L	93
35) Methylcyclohexane	6.70	83	15074	0.881 ug/L #	19
37) 1,2-Dichloropropane	6.70	63	6617	0.614 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1617	0.101 ug/L #	61

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
Data File : VU041885.D
Acq On : 07 Jan 2021 20:16
Operator : SY/MD
Sample : M1026-16
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jan 08 05:01:52 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

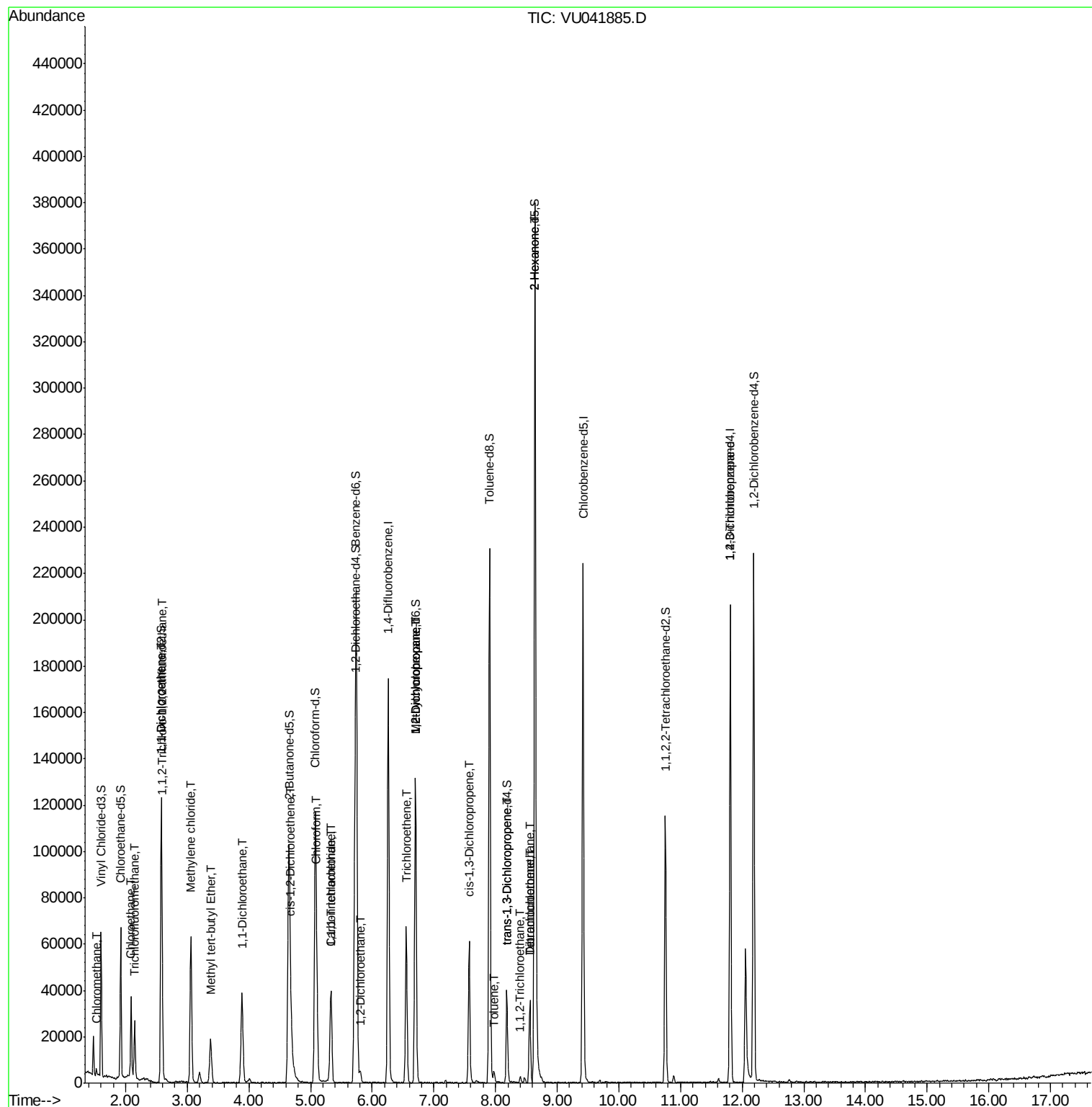
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.97	91	3541	0.081	uq/L	95
44) trans-1,3-Dichloropropene	8.19	75	1124	0.079	uq/L #	73
45) 1,1,2-Trichloroethane	8.40	97	961	0.121	uq/L #	80
47) Tetrachloroethene	8.56	164	8563	1.155	uq/L	93
48) 2-Hexanone	8.64	43	17195	3.081	uq/L #	68
49) Dibromochloromethane	8.56	129	8199	0.896	uq/L #	10
59) 1,2,3-Trichloropropane	11.81	75	6997	0.864	uq/L	95

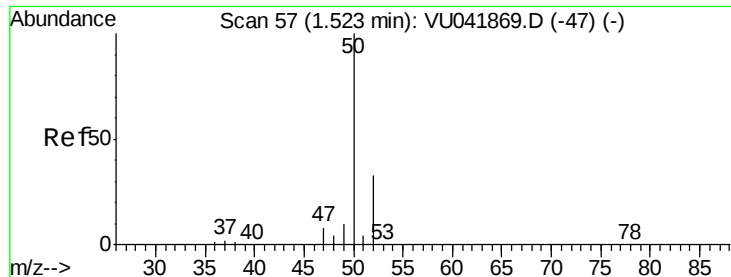
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
Data File : VU041885.D
Acq On : 07 Jan 2021 20:16
Operator : SY/MD
Sample : M1026-16
Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :

Quant Time: Jan 08 05:01:52 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





#3

Chloromethane

Concen: 0.189 ug/L

RT: 1.53 min Scan# 58

Delta R.T. 0.00 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Instrument :

MSVOA_U

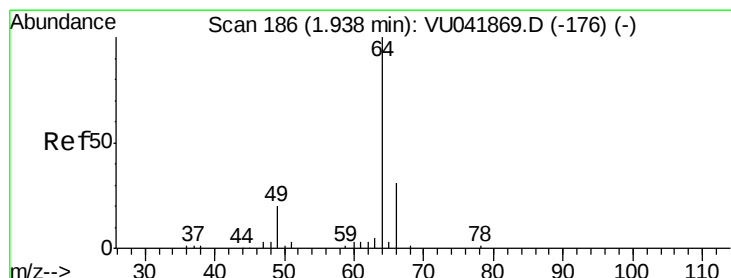
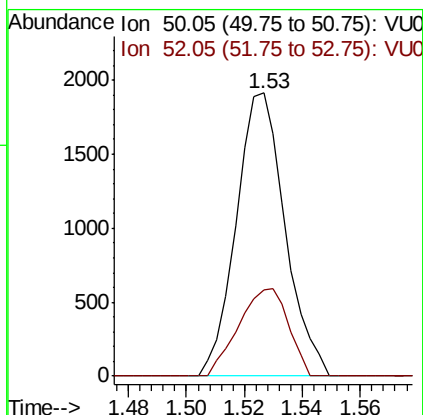
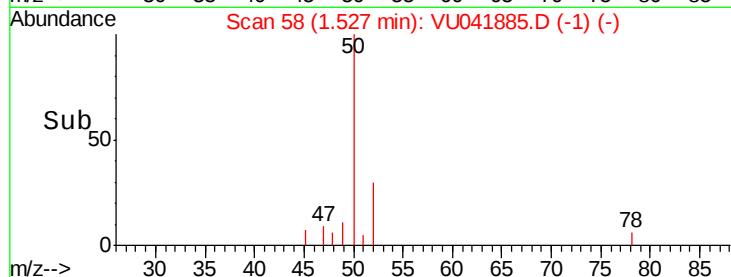
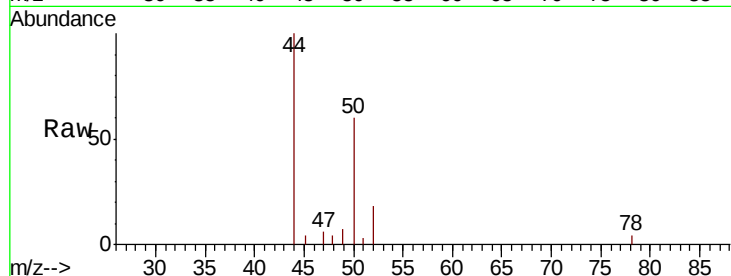
ClientSampleId :

Tot Ion: 50 Resp: 2238

Ion Ratio Lower Upper

50 100

52 30.4 24.1 44.8



#8

Chloroethane

Concen: 0.092 ug/L

RT: 2.08 min Scan# 229

Delta R.T. 0.14 min

Lab File: VU041885.D

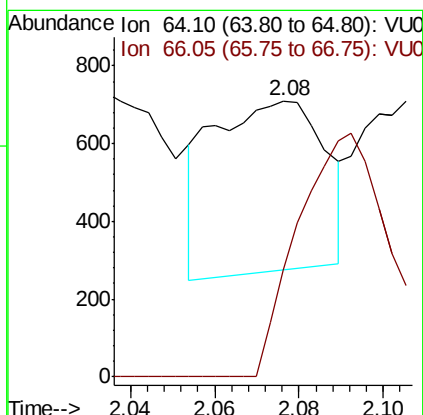
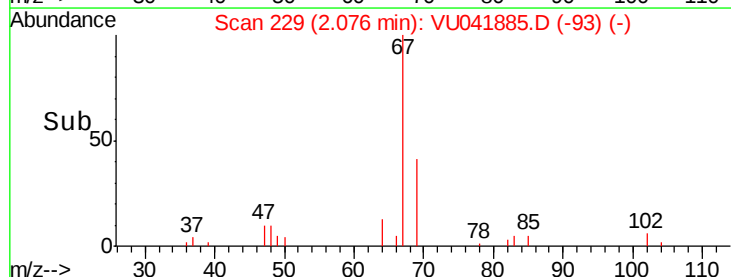
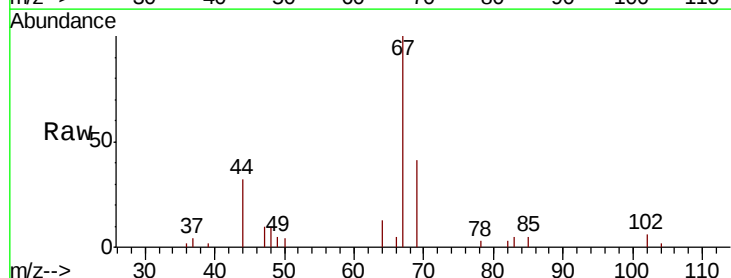
Acq: 07 Jan 2021 20:16

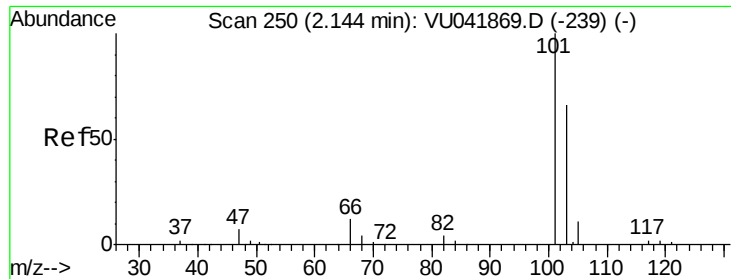
Tgt Ion: 64 Resp: 812

Ion Ratio Lower Upper

64 100

66 38.4 21.6 40.0



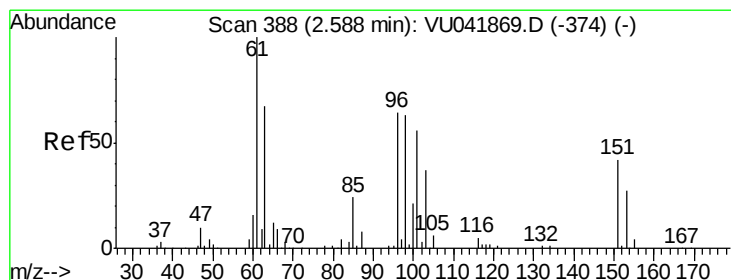
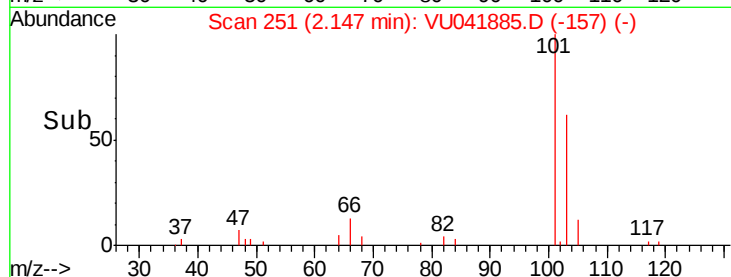
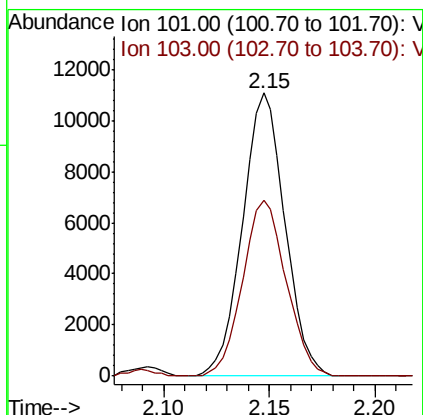
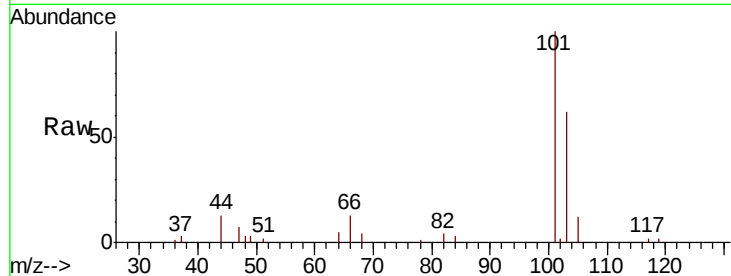


#9

Trichlorofluoromethane
Concen: 0.935 ug/L
RT: 2.15 min Scan# 251
Delta R.T. 0.00 min
Lab File: VU041885.D
Acq: 07 Jan 2021 20:16

Instrument :
MSVOA_U
ClientSampleId :

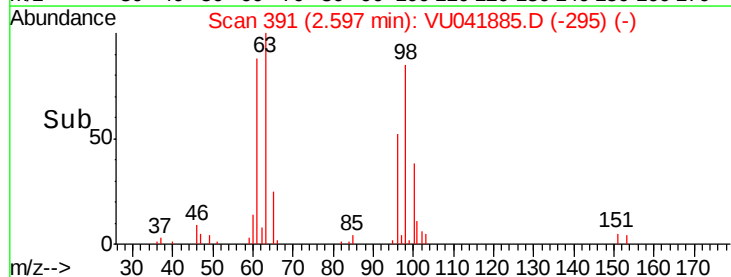
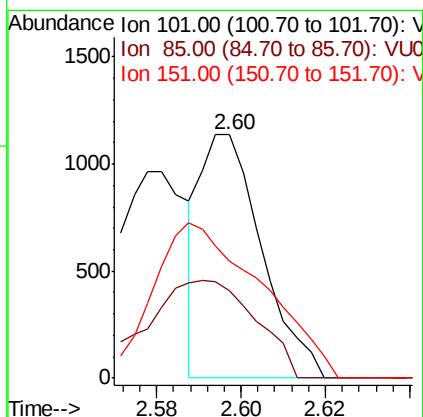
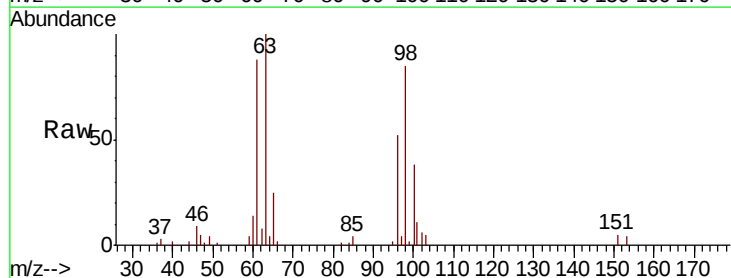
Tot Ion:101 Resp: 15439
Ion Ratio Lower Upper
101 100
103 63.9 51.1 76.7

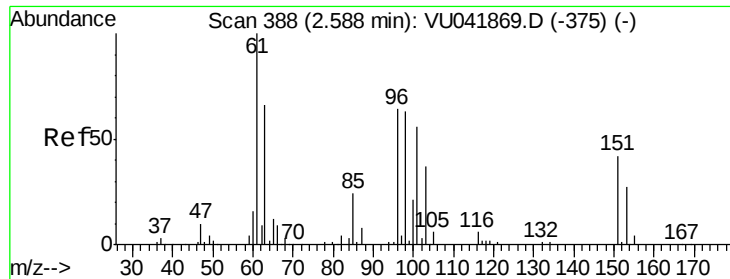


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.116 ug/L
RT: 2.60 min Scan# 391
Delta R.T. 0.01 min
Lab File: VU041885.D
Acq: 07 Jan 2021 20:16

Tgt Ion:101 Resp: 1143
Ion Ratio Lower Upper
101 100
85 71.0 33.6 50.4#
151 112.6 56.2 84.4#





#12

1,1-Dichloroethene

Concen: 1.094 ug/L

RT: 2.59 min Scan# 388

Delta R.T. 0.00 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Instrument :
MSVOA_U
ClientSampled :

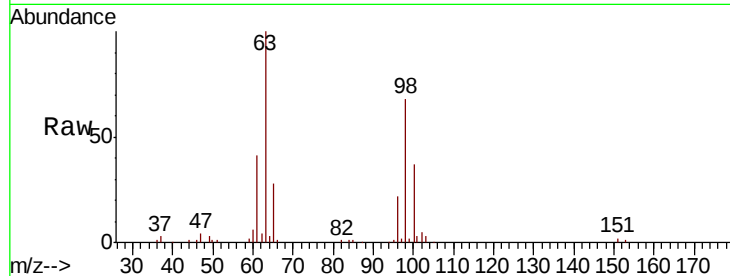
Tot Ion: 96 Resp: 10652

Ion Ratio Lower Upper

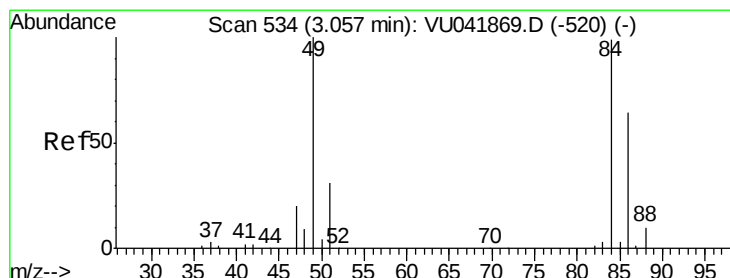
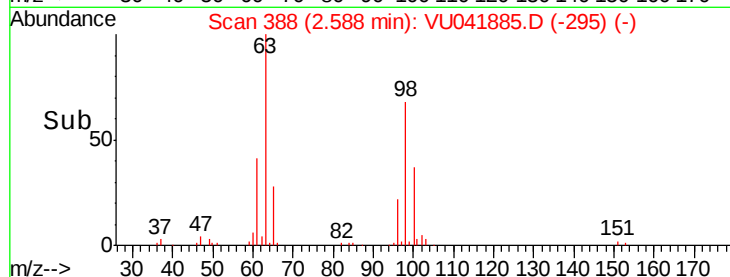
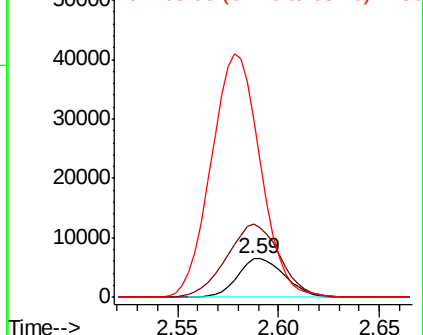
96 100

61 189.0 123.8 230.0

63 462.6 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



#16

Methylene chloride

Concen: 2.735 ug/L

RT: 3.06 min Scan# 535

Delta R.T. 0.00 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

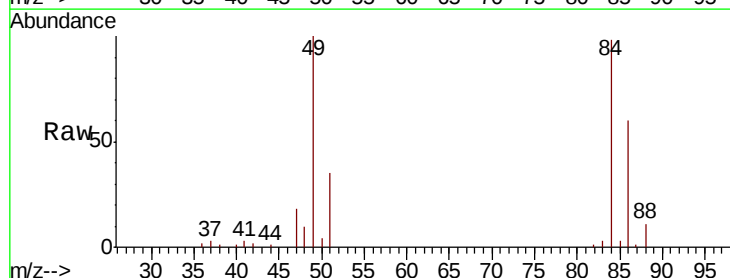
Tgt Ion: 84 Resp: 31800

Ion Ratio Lower Upper

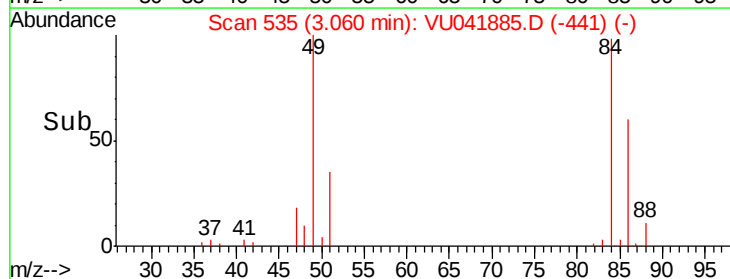
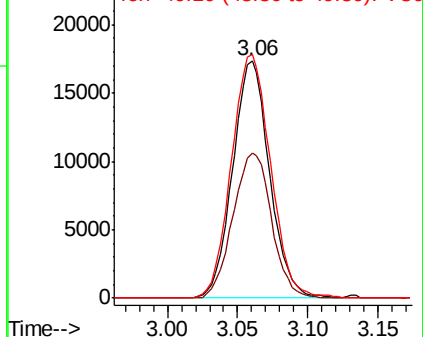
84 100

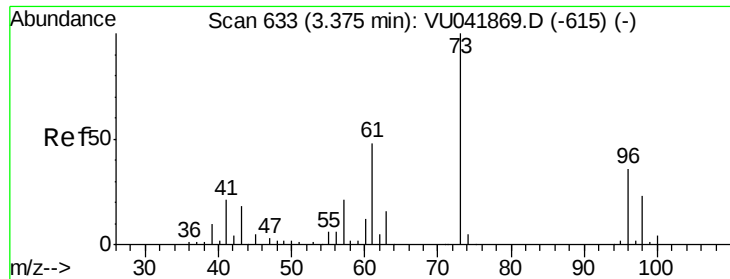
86 61.2 45.1 83.7

49 102.5 83.1 154.3



Abundance Ion 84.05 (83.75 to 84.75): VU0
Ion 86.00 (85.70 to 86.70): VU0
Ion 49.10 (48.80 to 49.80): VU0

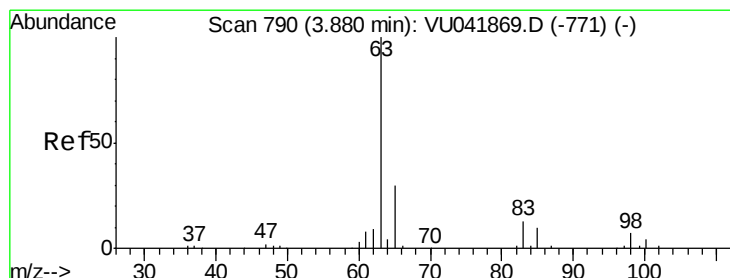
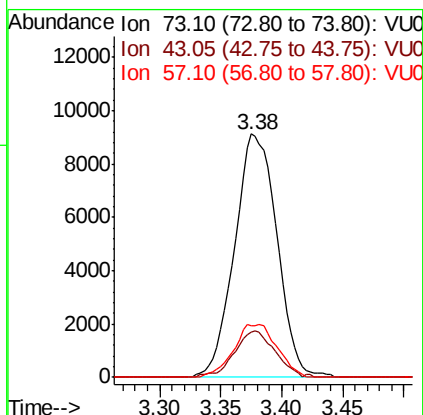
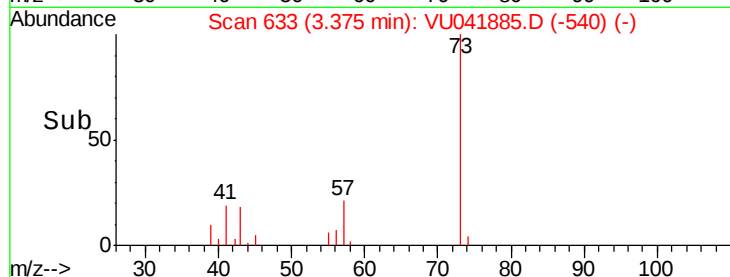
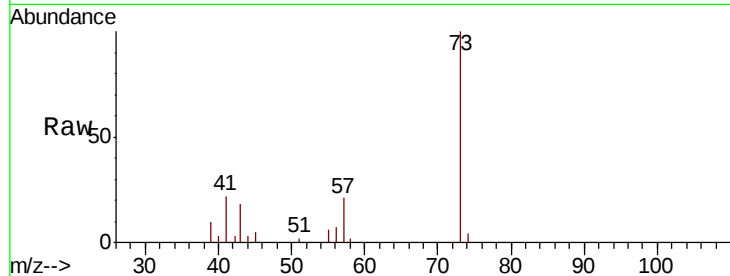




#17
Methvl tert-butvl Ether
Concen: 0.846 ug/L
RT: 3.38 min Scan# 633
Delta R.T. 0.00 min
Lab File: VU041885.D
Acq: 07 Jan 2021 20:16

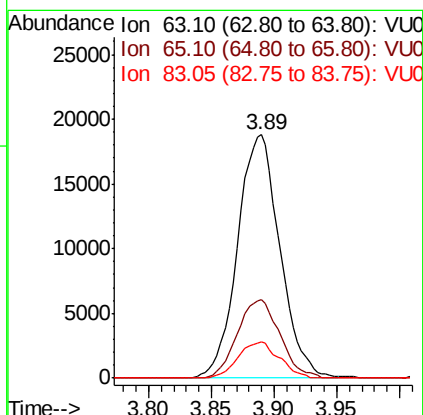
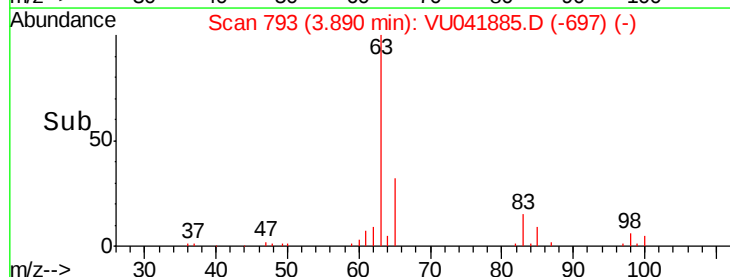
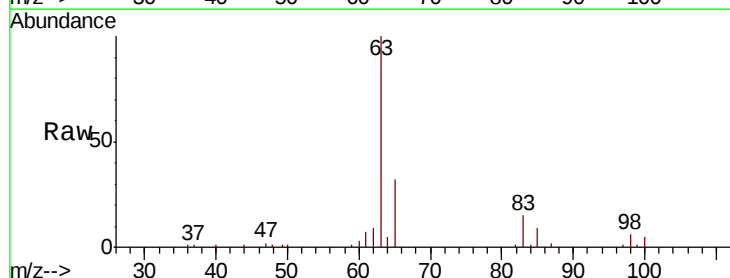
Instrument :
MSVOA_U
ClientSampleId :

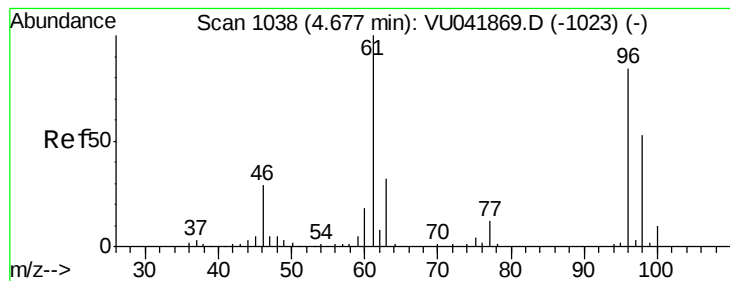
Tot Ion: 73 Resp: 21966
Ion Ratio Lower Upper
73 100
43 18.1 14.7 22.1
57 22.1 18.2 27.4



#19
1,1-Dichloroethane
Concen: 2.343 ug/L
RT: 3.89 min Scan# 793
Delta R.T. 0.01 min
Lab File: VU041885.D
Acq: 07 Jan 2021 20:16

Tgt Ion: 63 Resp: 44090
Ion Ratio Lower Upper
63 100
65 32.1 21.3 39.6
83 14.9 9.3 17.3





#22

cis-1,2-Dichloroethene

Concen: 0.135 ug/L

RT: 4.68 min Scan# 1040

Delta R.T. 0.01 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Instrument :

MSVOA_U

ClientSampleId :

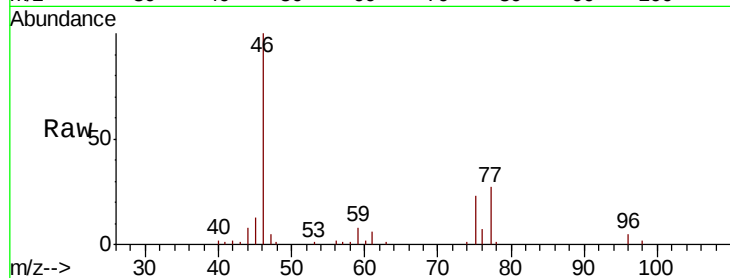
Tot Ion: 96 Resp: 1500

Ion Ratio Lower Upper

96 100

61 114.0 88.8 165.0

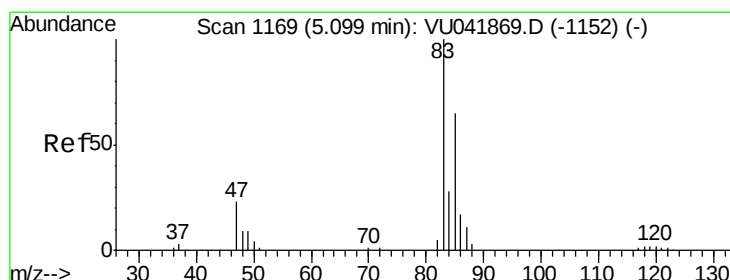
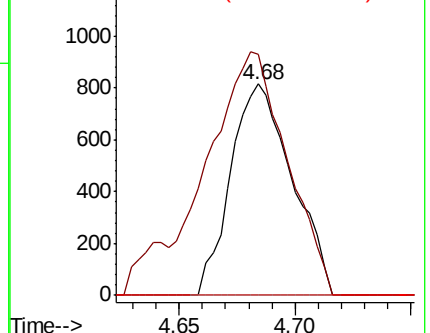
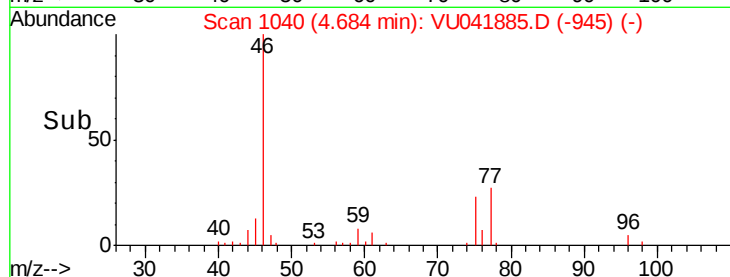
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU041885.D (-1045) (-)

Ion 61.05 (60.75 to 61.75): VU041885.D (-1045) (-)

Ion 68.15 (67.85 to 68.85): VU041885.D (-1045) (-)



#25

Chloroform

Concen: 1.131 ug/L

RT: 5.11 min Scan# 1171

Delta R.T. 0.01 min

Lab File: VU041885.D

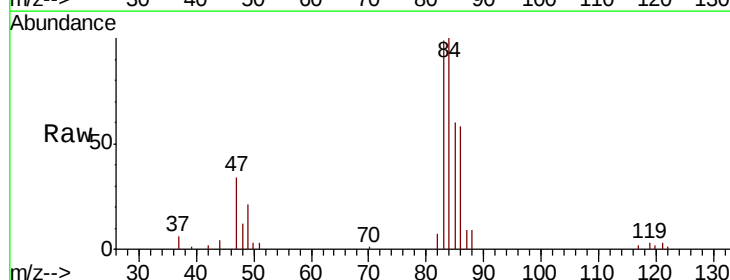
Acq: 07 Jan 2021 20:16

Tgt Ion: 83 Resp: 21439

Ion Ratio Lower Upper

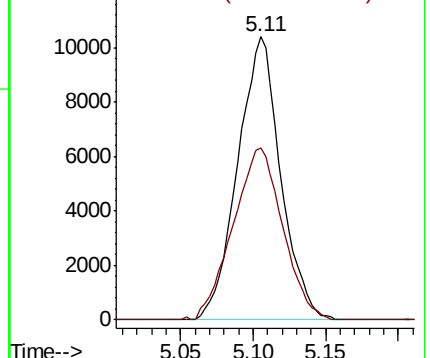
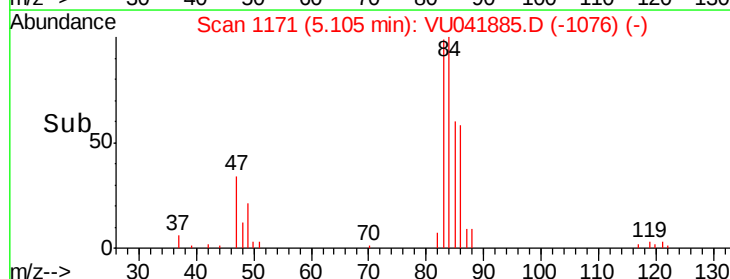
83 100

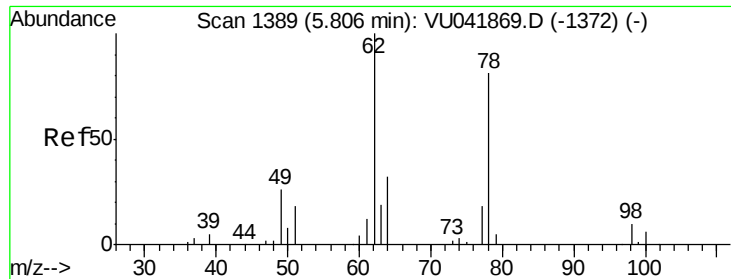
85 60.7 44.2 82.0



Abundance Ion 83.05 (82.75 to 83.75): VU041885.D (-1076) (-)

Ion 85.00 (84.70 to 85.70): VU041885.D (-1076) (-)

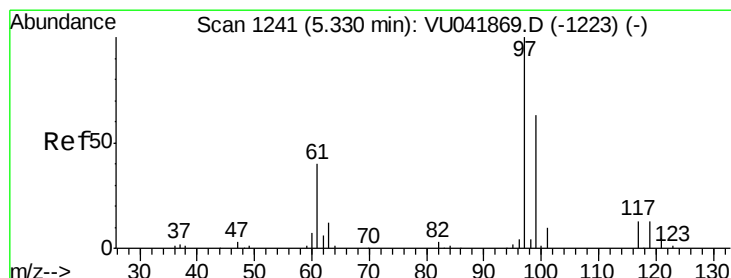
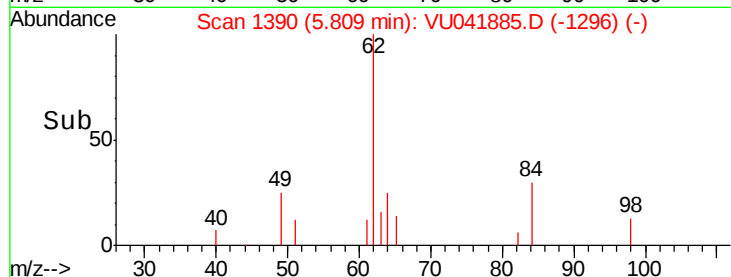
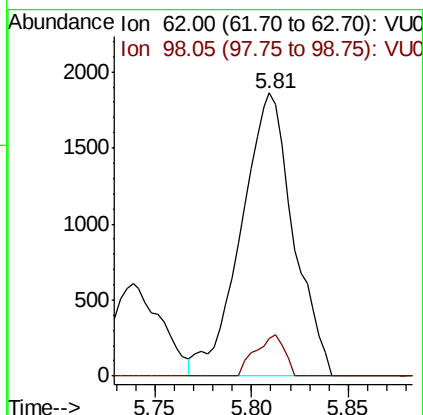
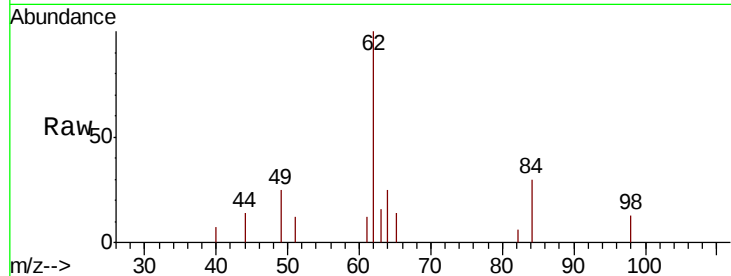




#27
 1,2-Dichloroethane
 Concen: 0.272 ug/L
 RT: 5.81 min Scan# 1390
 Delta R.T. 0.00 min
 Lab File: VU041885.D
 Acq: 07 Jan 2021 20:16

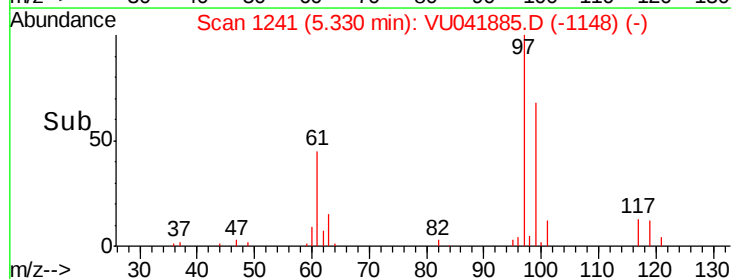
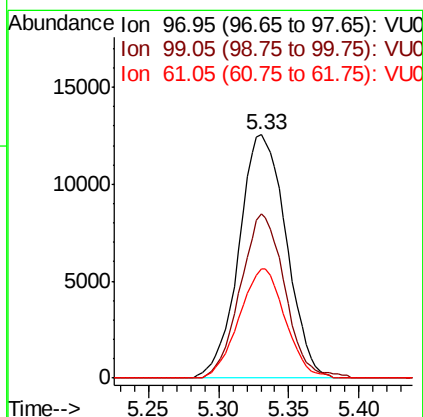
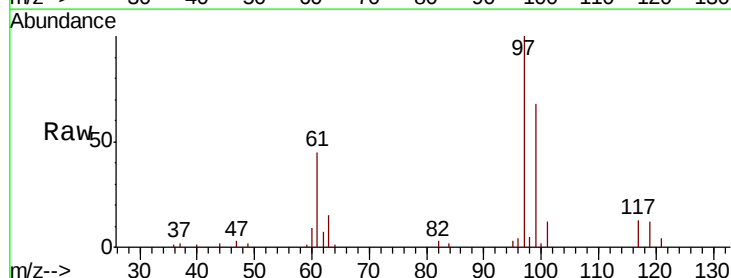
Instrument :
 MSVOA_U
 ClientSampleId :

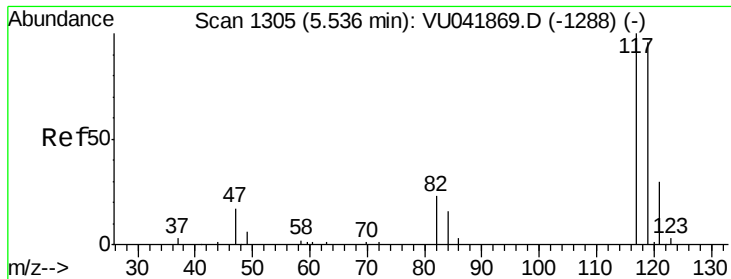
Tot Ion: 62 Resp: 3488
 Ion Ratio Lower Upper
 62 100
 98 13.5 8.2 12.2#



#29
 1,1,1-Trichloroethane
 Concen: 1.940 ug/L
 RT: 5.33 min Scan# 1241
 Delta R.T. 0.00 min
 Lab File: VU041885.D
 Acq: 07 Jan 2021 20:16

Tgt Ion: 97 Resp: 29353
 Ion Ratio Lower Upper
 97 100
 99 63.5 51.3 76.9
 61 43.6 36.5 54.7





#31

Carbon tetrachloride

Concen: 0.287 ug/L

RT: 5.33 min Scan# 1242

Delta R.T. -0.20 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

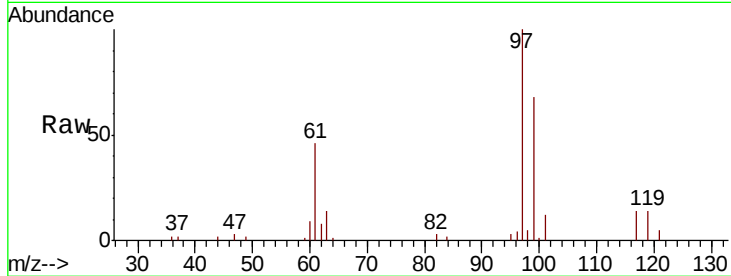
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 3752

Ion Ratio Lower Upper

117 100

119 97.3 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

5.33

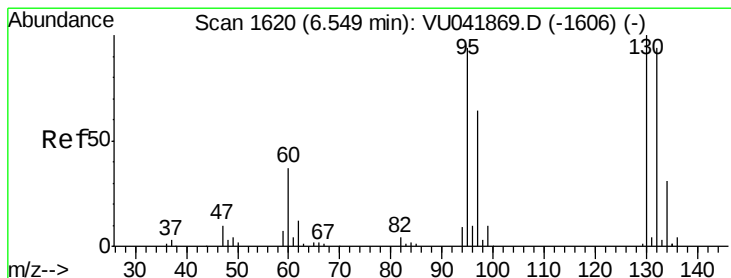
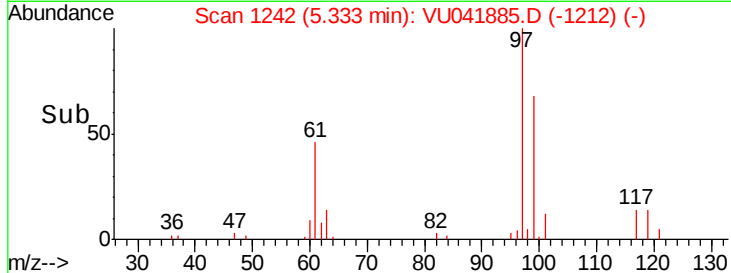
1500

1000

500

0

Time-->



#34

Trichloroethene

Concen: 2.191 ug/L

RT: 6.55 min Scan# 1621

Delta R.T. 0.00 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Tgt Ion: 95 Resp: 23195

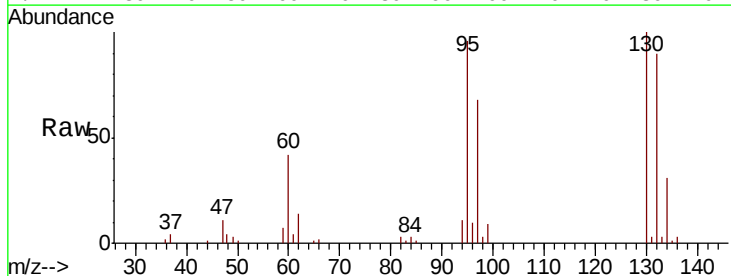
Ion Ratio Lower Upper

95 100

97 71.2 43.9 81.5

132 93.7 63.1 117.3

130 104.1 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

20000

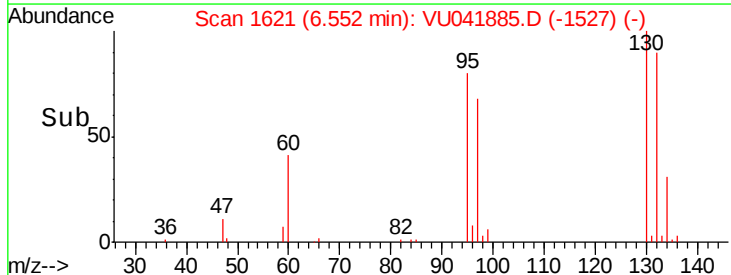
15000

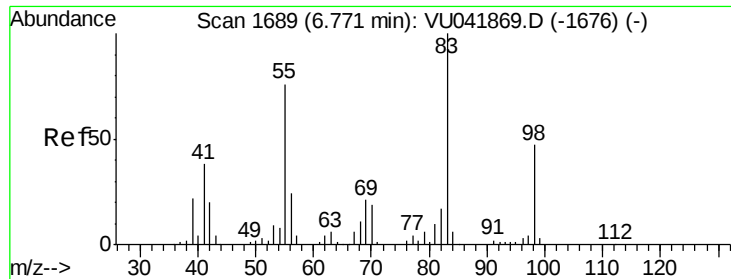
10000

5000

0

Time-->

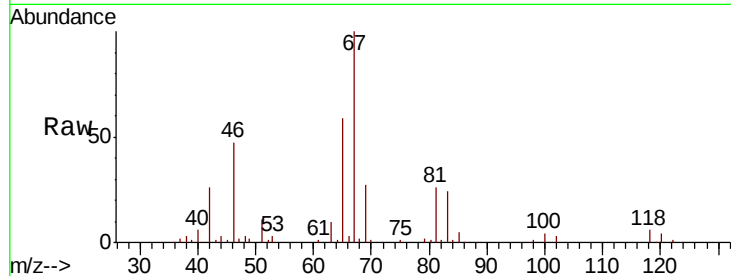




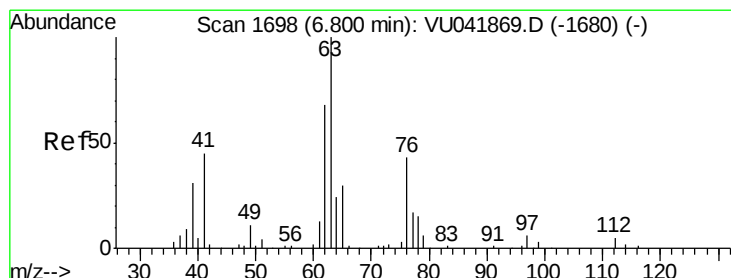
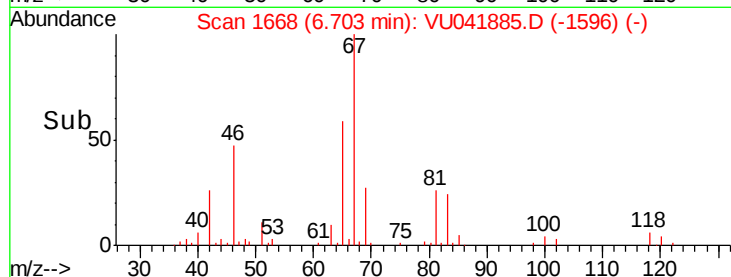
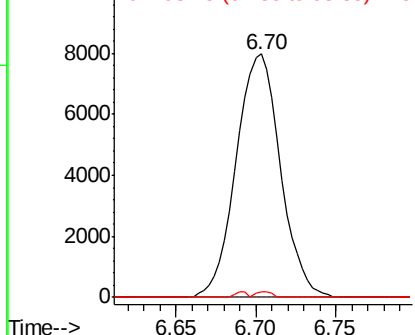
#35
Methvlcvclohexane
Concen: 0.881 ug/L
RT: 6.70 min Scan# 1668
Delta R.T. -0.07 min
Lab File: VU041885.D
Acq: 07 Jan 2021 20:16

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 83 Resp: 15074
Ion Ratio Lower Upper
83 100
55 0.0 61.2 91.8#
98 0.8 36.6 54.8#

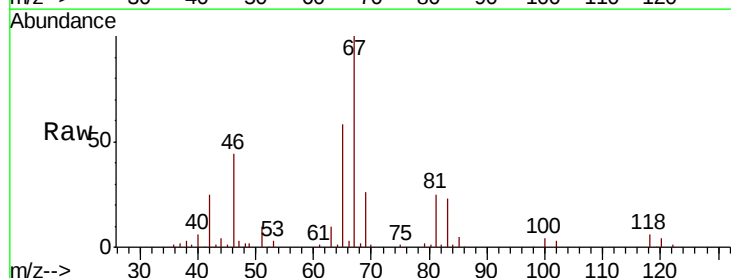


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

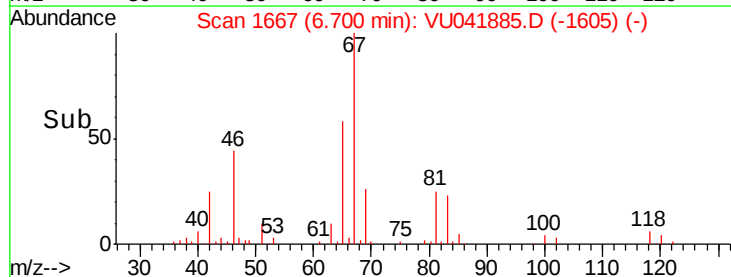
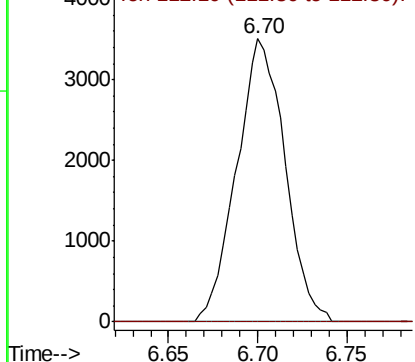


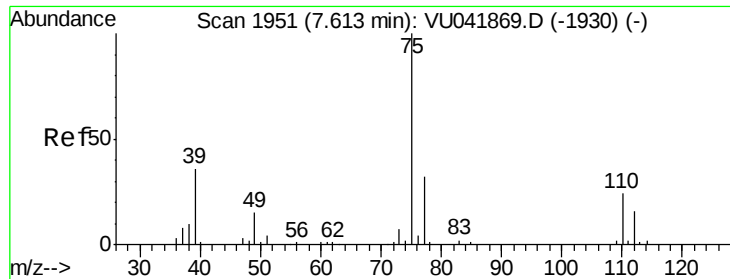
#37
1,2-Dichloropropane
Concen: 0.614 ug/L
RT: 6.70 min Scan# 1667
Delta R.T. -0.10 min
Lab File: VU041885.D
Acq: 07 Jan 2021 20:16

Tgt Ion: 63 Resp: 6617
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



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

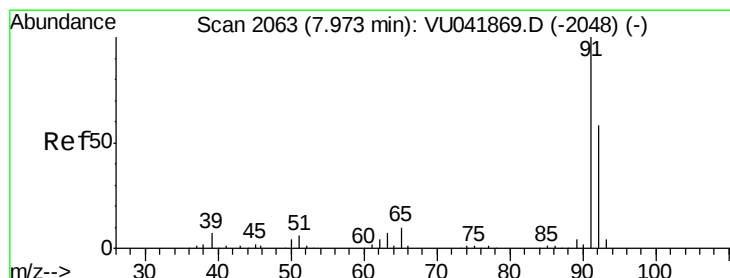
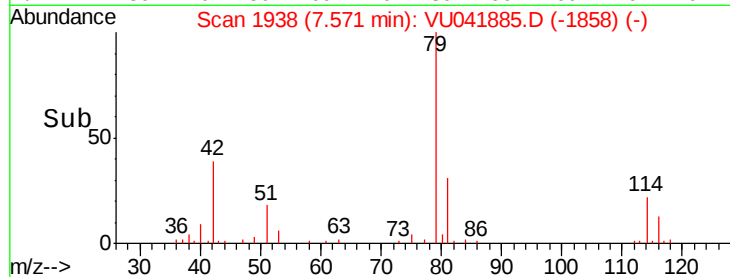
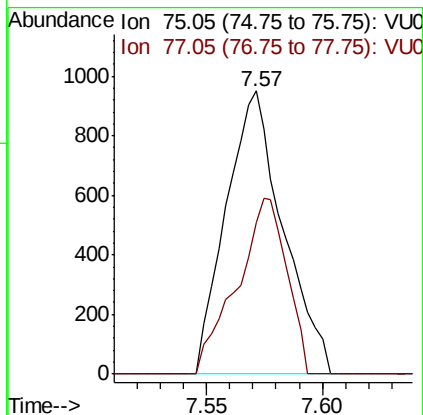
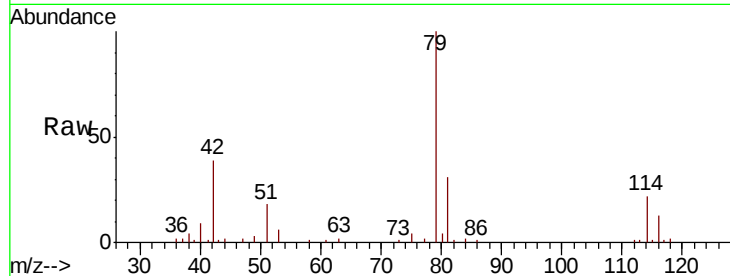




#39
 cis-1,3-Dichloropropene
 Concen: 0.101 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041885.D
 Acq: 07 Jan 2021 20:16

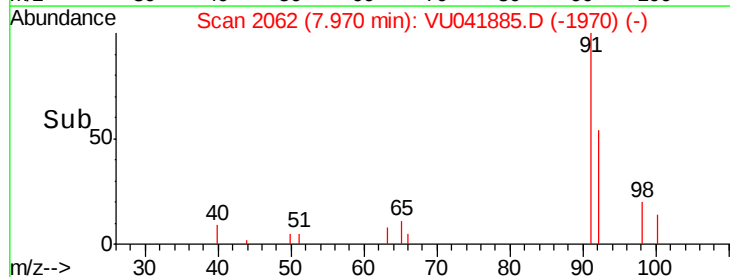
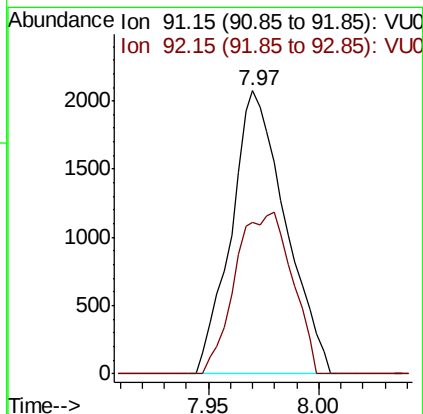
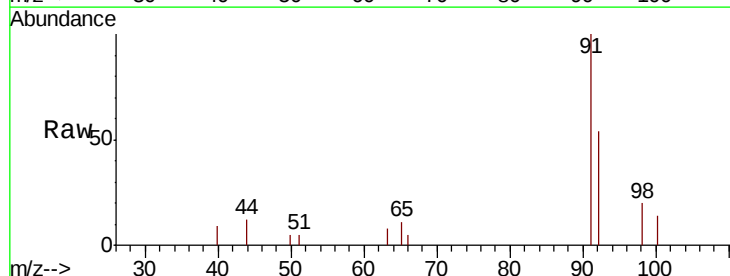
Instrument :
 MSVOA_U
 ClientSampled :

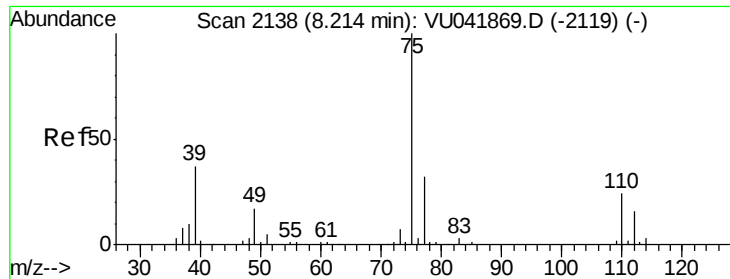
Tot Ion: 75 Resp: 1617
 Ion Ratio Lower Upper
 75 100
 77 53.5 22.3 41.3#



#42
 Toluene
 Concen: 0.081 ug/L
 RT: 7.97 min Scan# 2062
 Delta R.T. -0.00 min
 Lab File: VU041885.D
 Acq: 07 Jan 2021 20:16

Tgt Ion: 91 Resp: 3541
 Ion Ratio Lower Upper
 91 100
 92 53.5 40.0 74.2





#44

trans-1,3-Dichloropropene

Concen: 0.079 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Instrument :

MSVOA_U

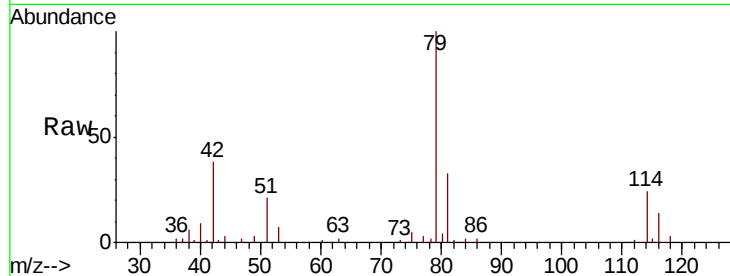
ClientSampleId :

Tot Ion: 75 Resp: 1124

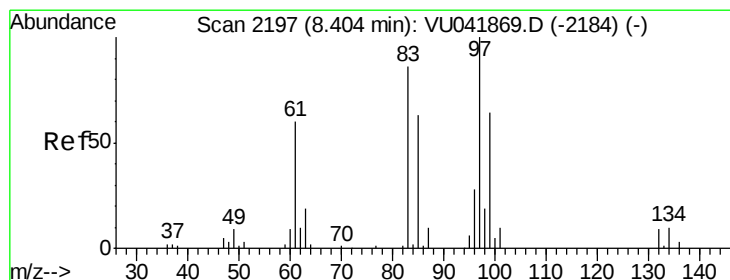
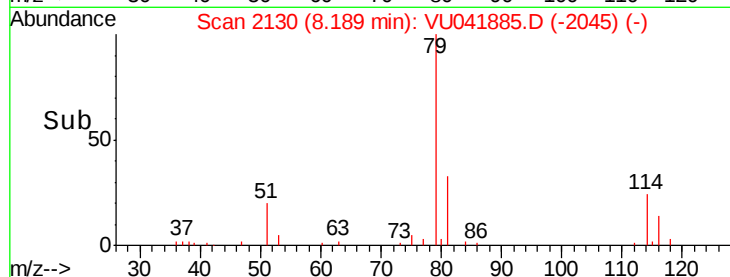
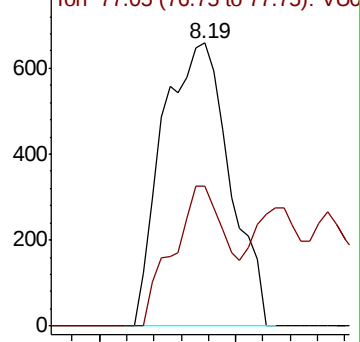
Ion Ratio Lower Upper

75 100

77 49.4 23.8 44.2#



Abundance Ion 75.05 (74.75 to 75.75): VU041869.D (-2119) (-)



#45

1,1,2-Trichloroethane

Concen: 0.121 ug/L

RT: 8.40 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Tgt Ion: 97 Resp: 961

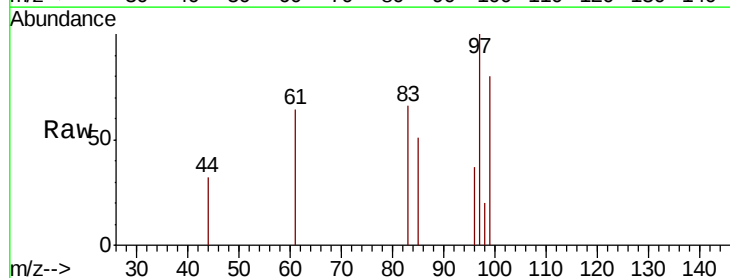
Ion Ratio Lower Upper

97 100

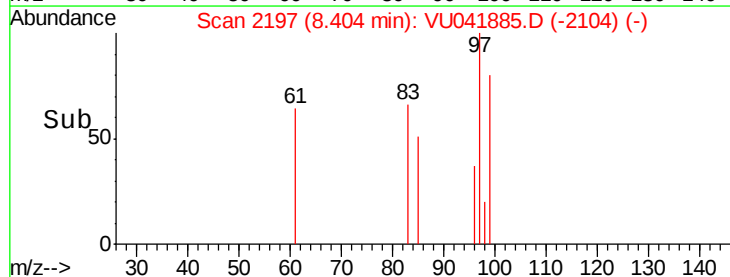
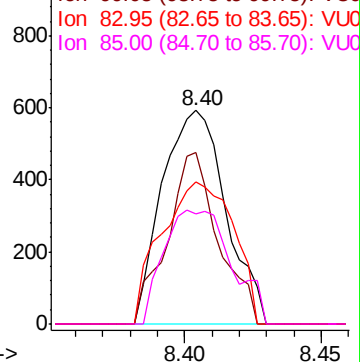
99 80.4 42.1 78.3#

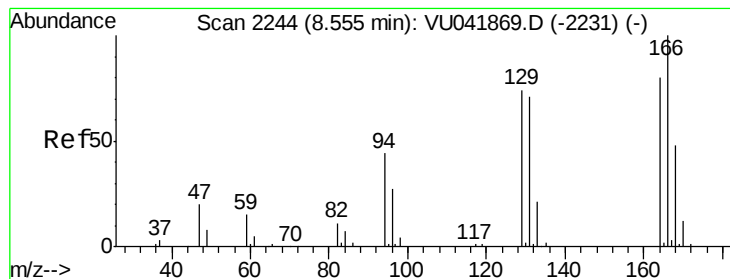
83 66.4 62.6 116.2

85 51.4 39.1 72.7



Abundance Ion 96.95 (96.65 to 97.65): VU041869.D (-2184) (-)





#47

Tetrachloroethene

Concen: 1.155 ug/L

RT: 8.56 min Scan# 2244

Delta R.T. 0.00 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:164 Resp: 8563

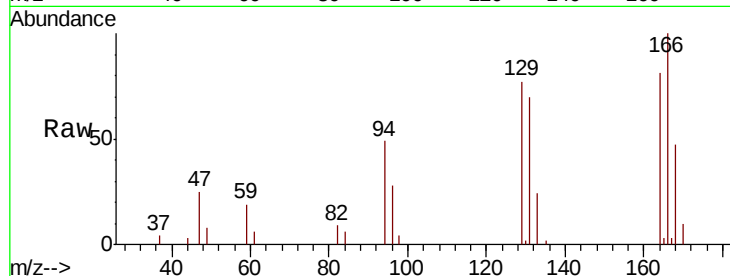
Ion Ratio Lower Upper

164 100

129 94.6 72.2 134.0

131 86.5 66.9 124.3

166 123.4 89.6 166.4

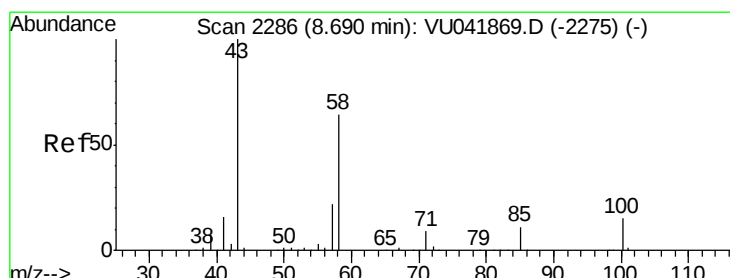
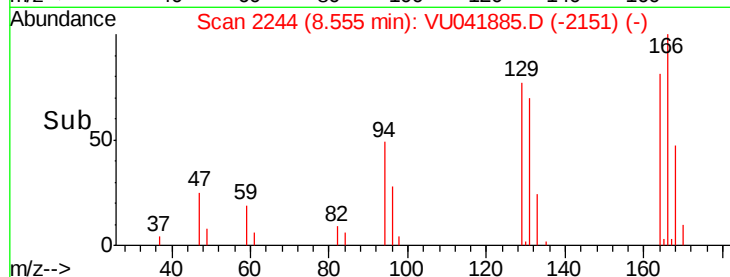
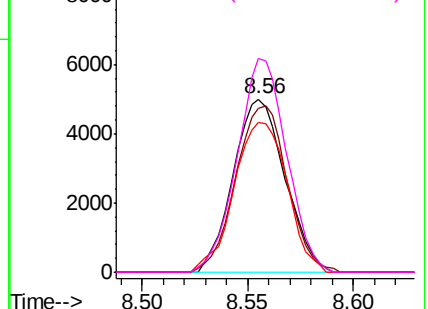


Abundance Ion 163.90 (163.60 to 164.60): V

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



#48

2-Hexanone

Concen: 3.081 ug/L

RT: 8.64 min Scan# 2270

Delta R.T. -0.05 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Tgt Ion: 43 Resp: 17195

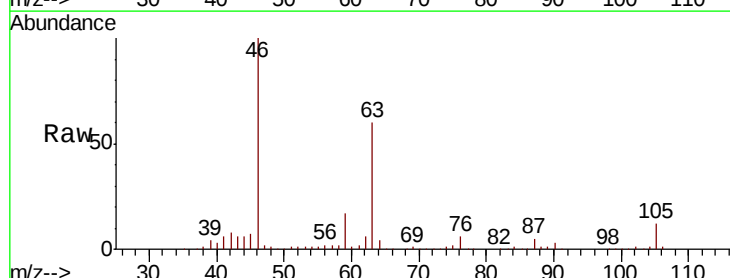
Ion Ratio Lower Upper

43 100

58 34.4 47.9 71.9#

57 33.4 16.5 24.7#

100 0.8 9.4 14.2#

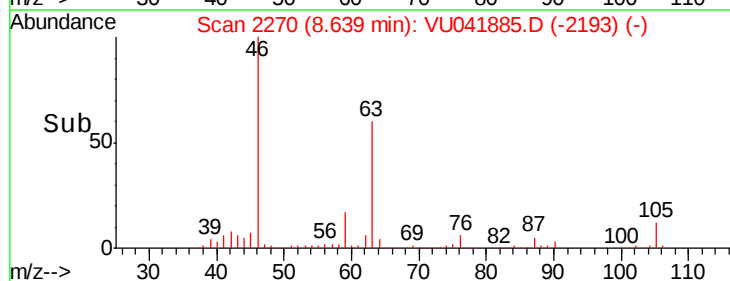
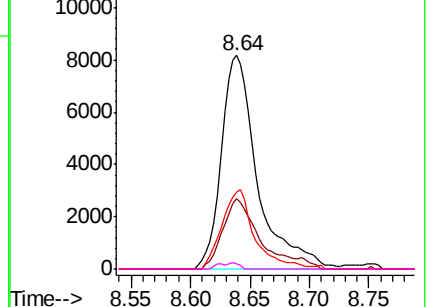


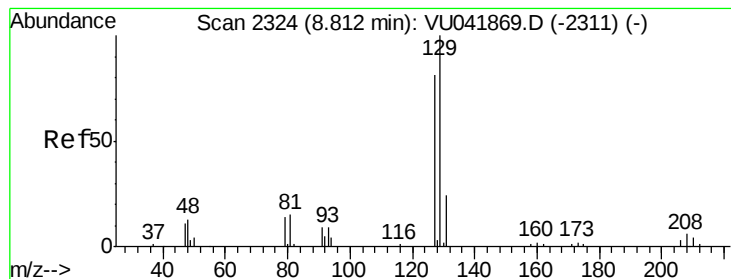
Abundance Ion 43.05 (42.75 to 43.75): VU0

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: 0.896 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.25 min

Lab File: VU041885.D

Acq: 07 Jan 2021 20:16

Instrument :

MSVOA_U

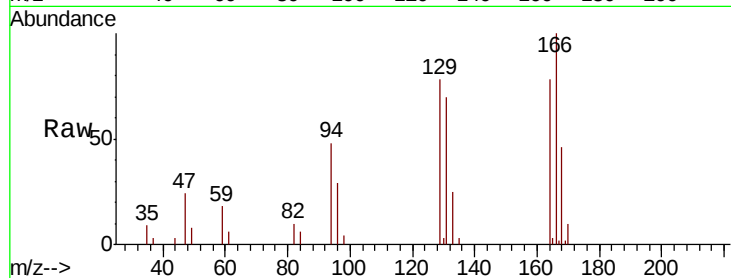
ClientSampled :

Tot Ion:129 Resp: 8199

Ion Ratio Lower Upper

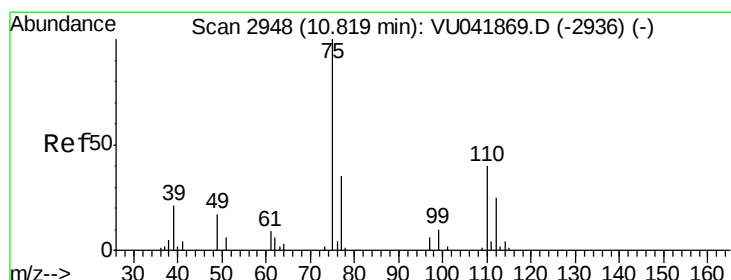
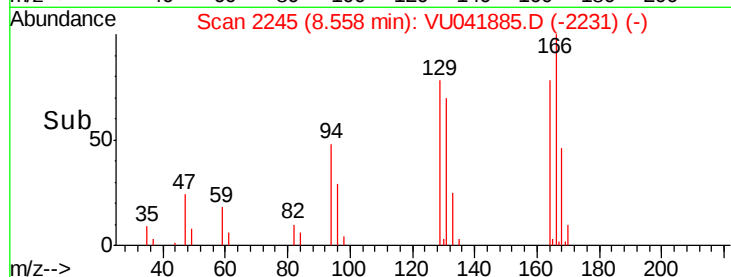
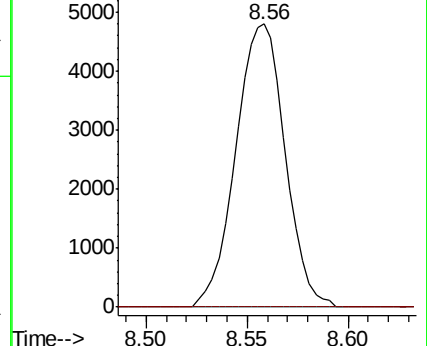
129 100

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: 0.864 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.99 min

Lab File: VU041885.D

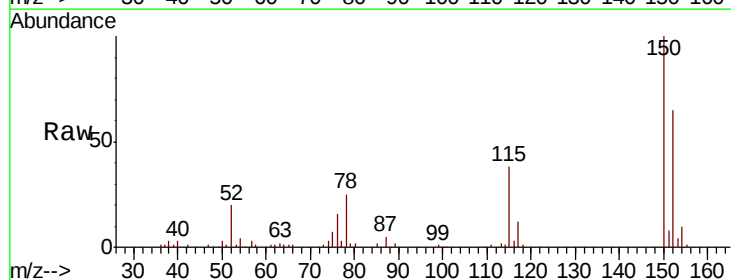
Acq: 07 Jan 2021 20:16

Tgt Ion: 75 Resp: 6997

Ion Ratio Lower Upper

75 100

77 29.6 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

