

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010921\
 Data File : VU041908.D
 Acq On : 08 Jan 2021 16:24
 Operator : SY/MD
 Sample : M1049-05
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 09 01:35:33 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jan 09 01:31:59 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	115868	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	108753	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	46290	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	33530	3.70	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.00%
7) Chloroethane-d5	1.92	69	38930	5.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	111.00%
11) 1,1-Dichloroethene-d2	2.58	63	49526	2.97	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.40%#
20) 2-Butanone-d5	4.66	46	158273	60.83	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	121.66%
24) Chloroform-d	5.08	84	87705	5.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	113.00%
26) 1,2-Dichloroethane-d4	5.72	65	49422	5.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	112.20%
32) Benzene-d6	5.74	84	154656	4.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.40%
36) 1,2-Dichloropropane-d6	6.70	67	51852	5.31	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	106.20%
41) Toluene-d8	7.90	98	115121	4.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.00%
43) trans-1,3-Dichloropropene-	8.19	79	18900	4.31	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.20%
46) 2-Hexanone-d5	8.64	63	128547	53.56	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.12%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	51492	5.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	116.20%
64) 1,2-Dichlorobenzene-d4	12.19	152	48518	5.89	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.80%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	811	0.085 ug/L #	76
9) Trichlorofluoromethane	2.15	101	200415	15.037 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.57	101	858	0.108 ug/L #	22
12) 1,1-Dichloroethene	2.59	96	543	0.069 ug/L #	1
16) Methylene chloride	3.06	84	1921	0.205 ug/L	79
21) 2-Butanone	4.83	43	94764	35.151 ug/L #	45
22) cis-1,2-Dichloroethene	4.68	96	14746	1.641 ug/L	89
25) Chloroform	5.10	83	4188	0.274 ug/L	94
31) Carbon tetrachloride	5.54	117	4263	0.395 ug/L	96
33) Benzene	5.79	78	3202	0.092 ug/L	100
34) Trichloroethene	6.55	95	312424	35.747 ug/L	93
35) Methylcyclohexane	6.70	83	13043	0.923 ug/L #	19
37) 1,2-Dichloropropane	6.70	63	5209	0.586 ug/L #	88
39) cis-1,3-Dichloropropene	7.57	75	1035	0.079 ug/L #	61
42) Toluene	7.97	91	2883	0.080 ug/L	85
45) 1,1,2-Trichloroethane	8.40	97	1105	0.168 ug/L	91
47) Tetrachloroethene	8.56	164	262116	42.842 ug/L	96

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Quant Time: Jan 09 01:35:33 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121220WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jan 09 01:31:59 2021
Response via : Initial Calibration

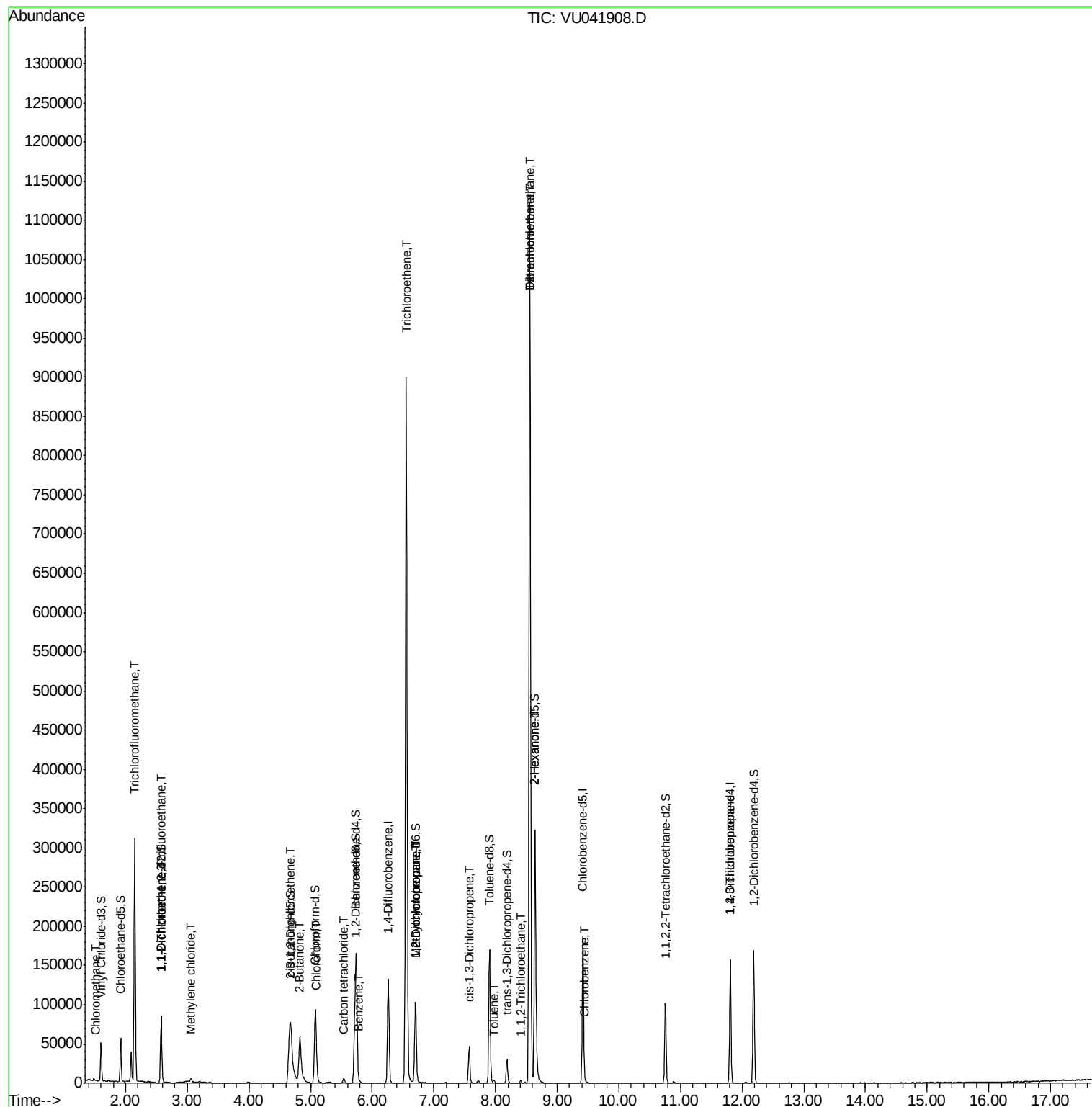
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 2-Hexanone	8.64	43	14901	3.234	ug/L #	69
49) Dibromochloromethane	8.56	129	246886	32.670	ug/L #	10
51) Chlorobenzene	9.45	112	1211	0.054	ug/L #	70
59) 1,2,3-Trichloropropane	11.80	75	4627	0.693	ug/L	95

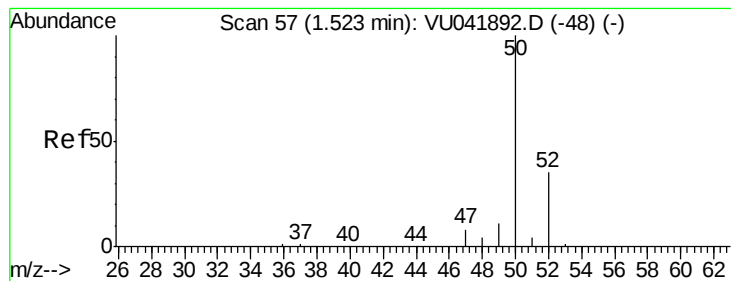
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.085 ug/L

RT: 1.52 min Scan# 57

Delta R.T. 0.00 min

Lab File: VU041908.D

Acq: 08 Jan 2021 16:24

Instrument :

MSVOA_U

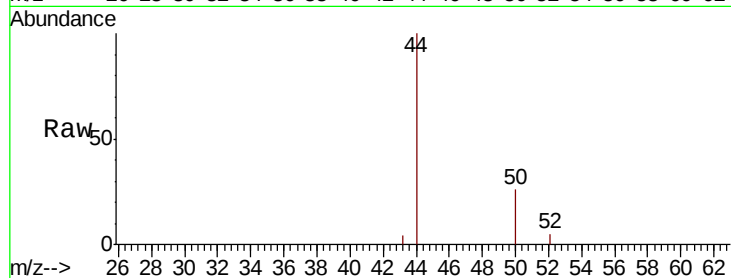
ClientSampleId :

Tot Ion: 50 Resp: 811

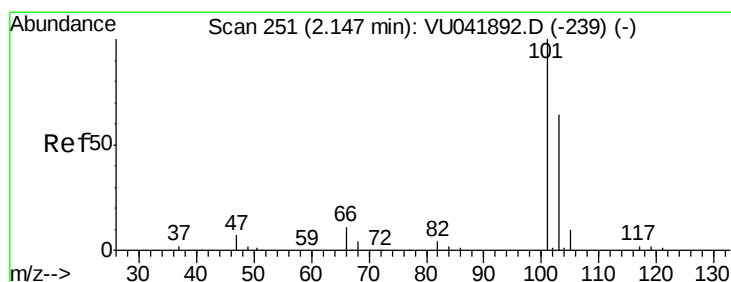
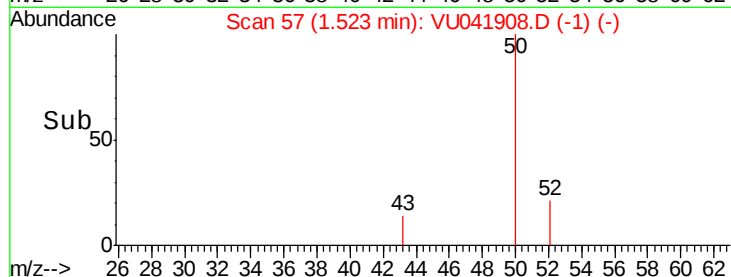
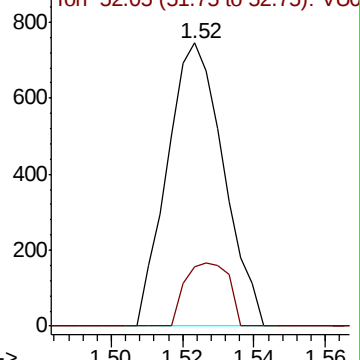
Ion Ratio Lower Upper

50 100

52 20.8 24.1 44.8#



Abundance Ion 50.05 (49.75 to 50.75): VU041892.D (-48) (-)



#9

Trichlorofluoromethane

Concen: 15.037 ug/L

RT: 2.15 min Scan# 251

Delta R.T. 0.00 min

Lab File: VU041908.D

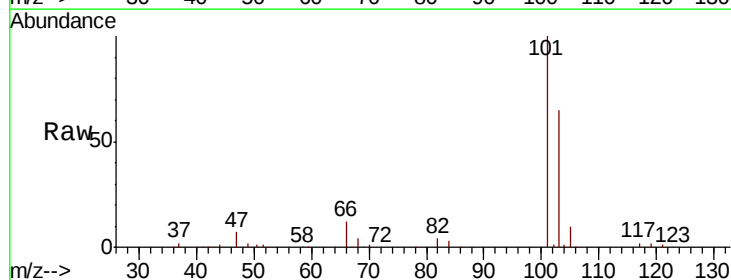
Acq: 08 Jan 2021 16:24

Tgt Ion: 101 Resp: 200415

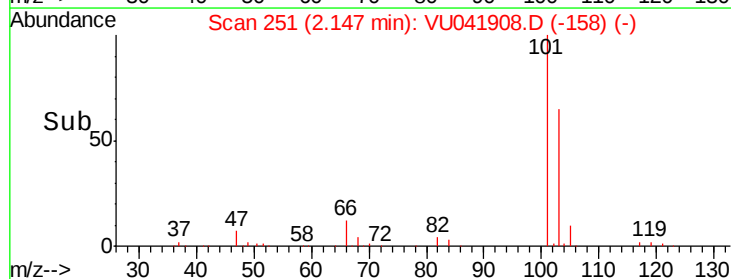
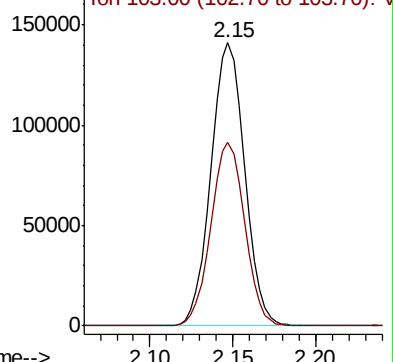
Ion Ratio Lower Upper

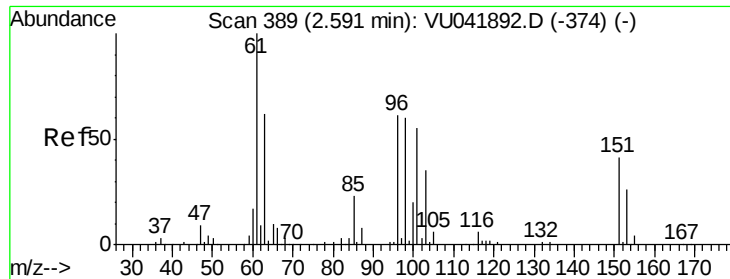
101 100

103 64.9 51.1 76.7



Abundance Ion 101.00 (100.70 to 101.70): VU041892.D (-239) (-)





#10

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

Concen: 0.108 ug/L

RT: 2.57 min Scan# 384

Delta R.T. -0.02 min

Lab File: VU041908.D

Acq: 08 Jan 2021 16:24

Instrument :

MSVOA_U

ClientSampleId :

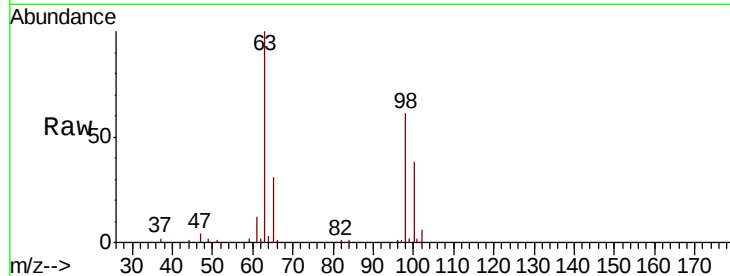
Tot Ion:101 Resp: 858

Ion Ratio Lower Upper

101 100

85 0.0 33.6 50.4#

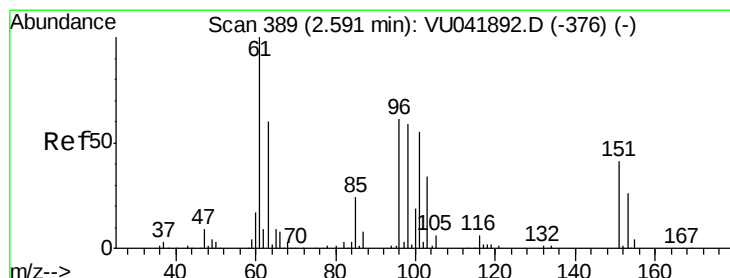
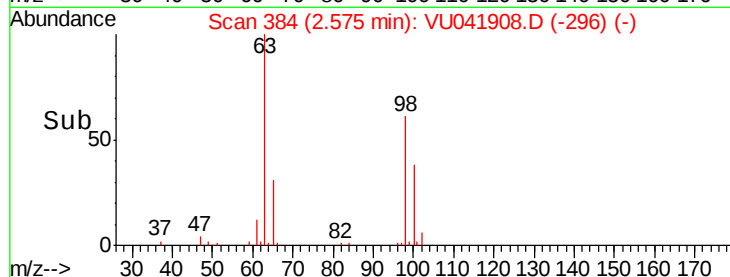
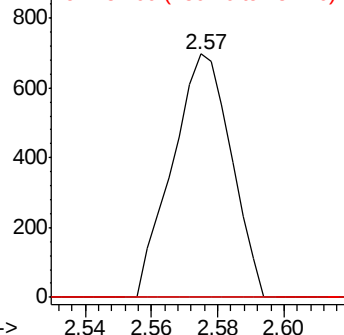
151 0.0 56.2 84.4#



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: 0.069 ug/L

RT: 2.59 min Scan# 388

Delta R.T. -0.00 min

Lab File: VU041908.D

Acq: 08 Jan 2021 16:24

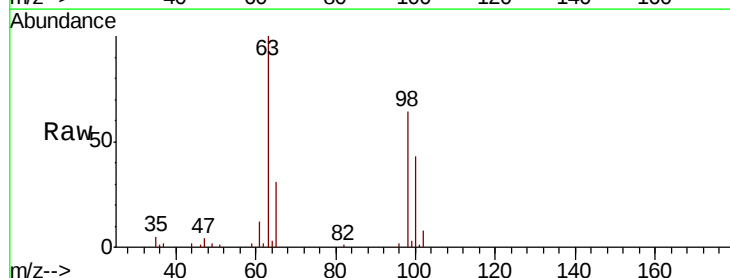
Tgt Ion: 96 Resp: 543

Ion Ratio Lower Upper

96 100

61 541.4 123.8 230.0#

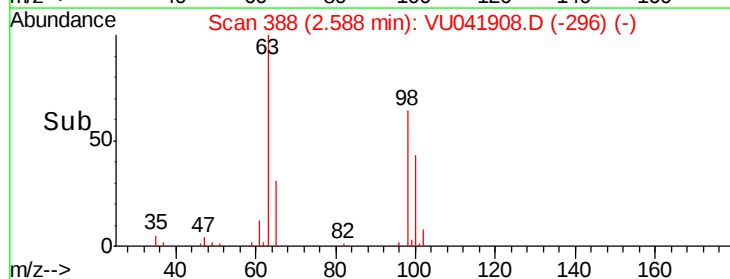
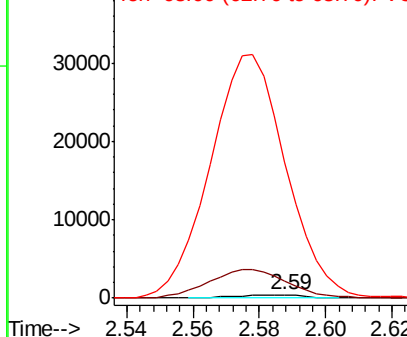
63 4383.8 81.0 150.4#

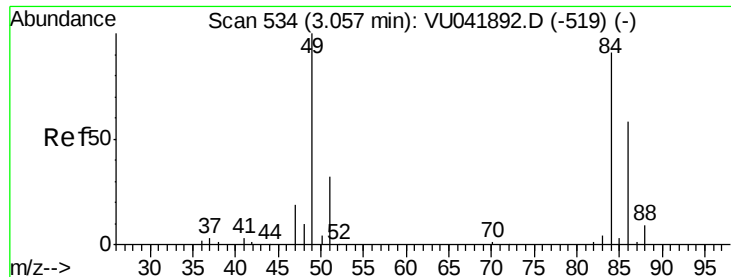


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

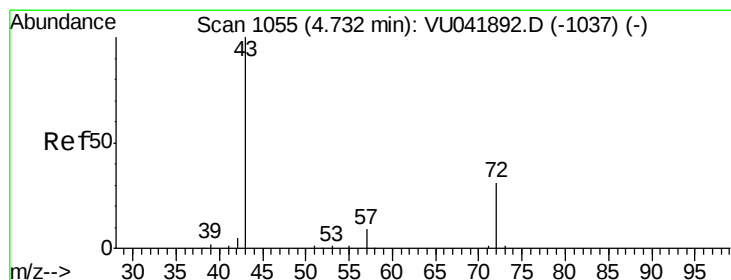
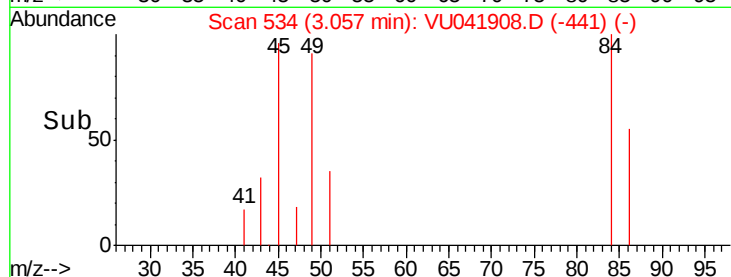
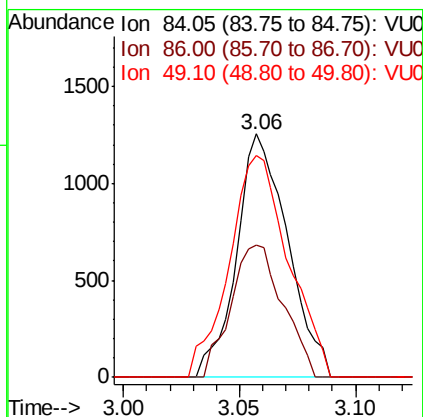
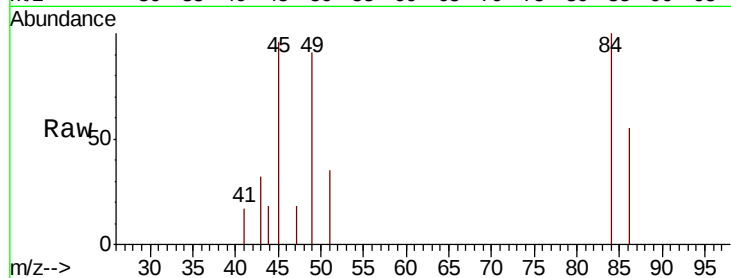




#16
Methvlene chloride
Concen: 0.205 ug/L
RT: 3.06 min Scan# 534
Delta R.T. 0.00 min
Lab File: VU041908.D
Acq: 08 Jan 2021 16:24

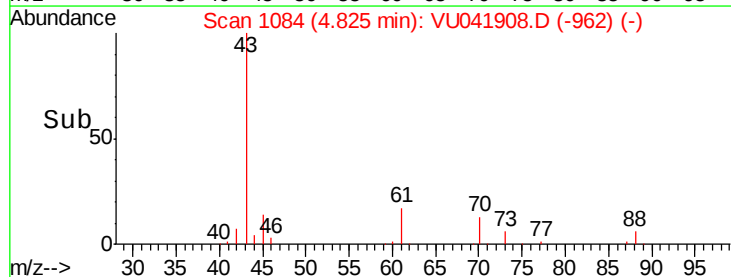
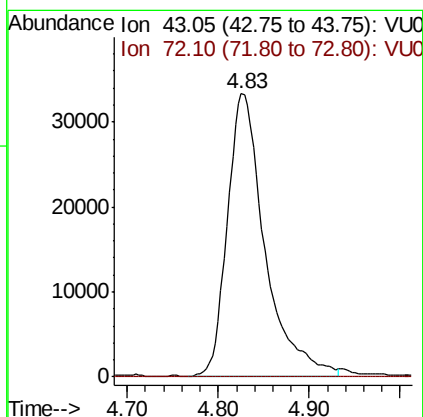
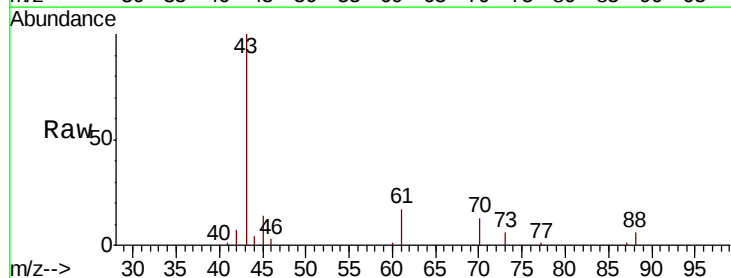
Instrument :
MSVOA_U
ClientSampleId :

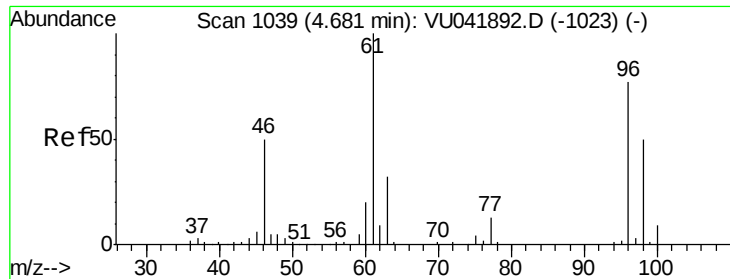
Tot Ion: 84 Resp: 1921
Ion Ratio Lower Upper
84 100
86 54.5 45.1 83.7
49 90.9 83.1 154.3



#21
2-Butanone
Concen: 35.151 ug/L
RT: 4.83 min Scan# 1084
Delta R.T. 0.09 min
Lab File: VU041908.D
Acq: 08 Jan 2021 16:24

Tgt Ion: 43 Resp: 94764
Ion Ratio Lower Upper
43 100
72 0.0 14.6 44.0#

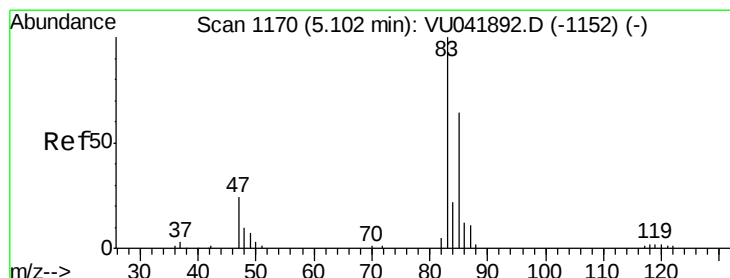
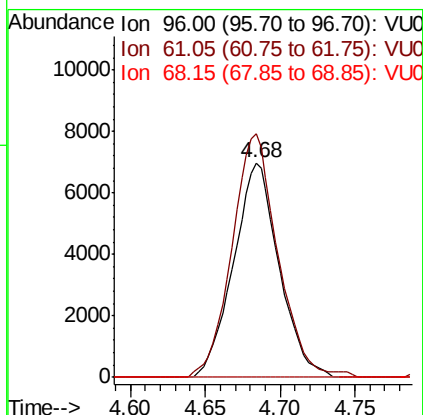
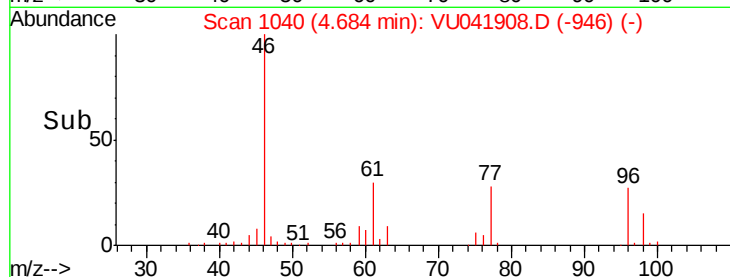
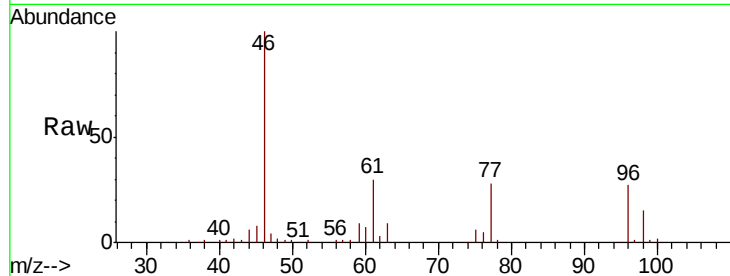




#22
 cis-1,2-Dichloroethene
 Concen: 1.641 ug/L
 RT: 4.68 min Scan# 1040
 Delta R.T. 0.00 min
 Lab File: VU041908.D
 Acq: 08 Jan 2021 16:24

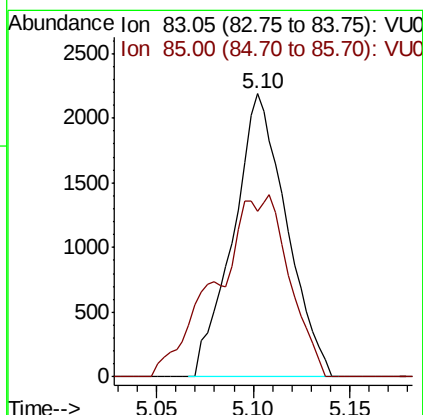
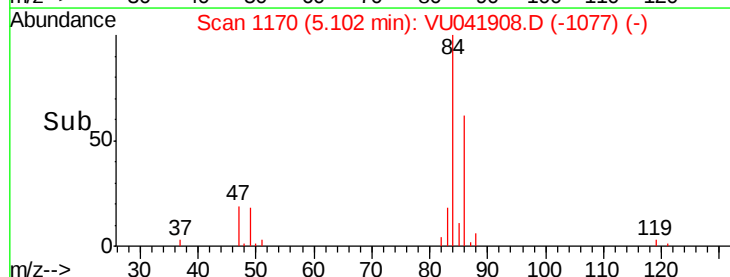
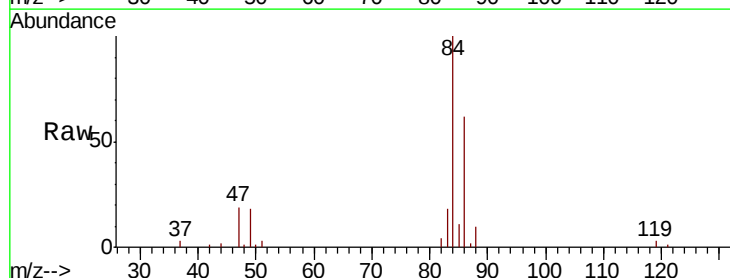
Instrument :
 MSVOA_U
 ClientSampleId :

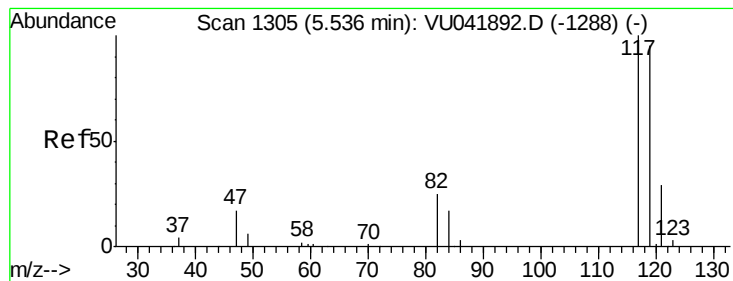
Tot Ion: 96 Resp: 14746
 Ion Ratio Lower Upper
 96 100
 61 113.7 88.8 165.0
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 0.274 ug/L
 RT: 5.10 min Scan# 1170
 Delta R.T. 0.00 min
 Lab File: VU041908.D
 Acq: 08 Jan 2021 16:24

Tgt Ion: 83 Resp: 4188
 Ion Ratio Lower Upper
 83 100
 85 58.6 44.2 82.0





#31

Carbon tetrachloride

Concen: 0.395 ug/L

RT: 5.54 min Scan# 1305

Delta R.T. 0.00 min

Lab File: VU041908.D

Acq: 08 Jan 2021 16:24

Instrument :

MSVOA_U

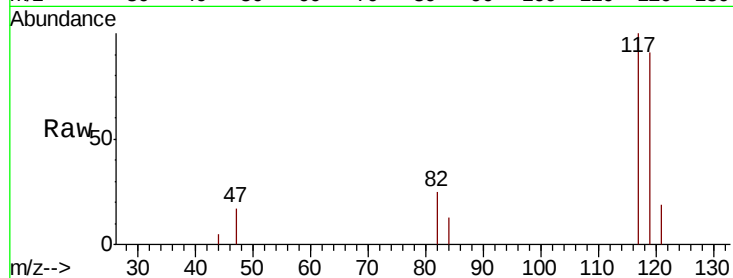
ClientSampleId :

Tot Ion:117 Resp: 4263

Ion Ratio Lower Upper

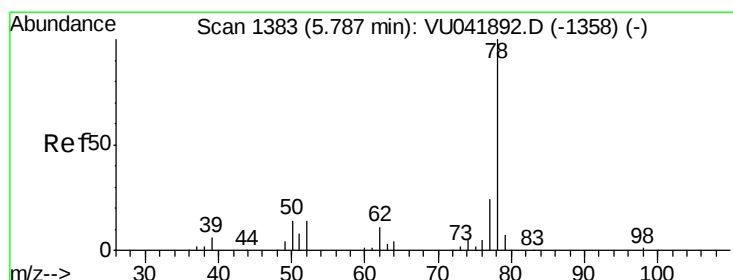
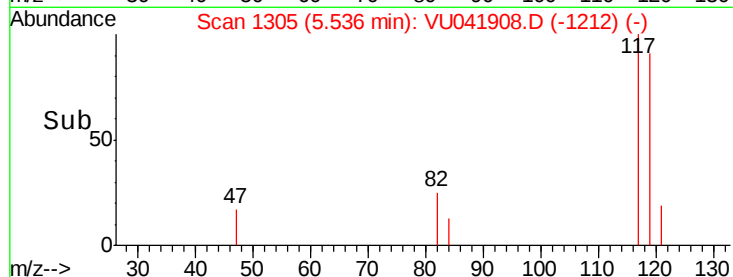
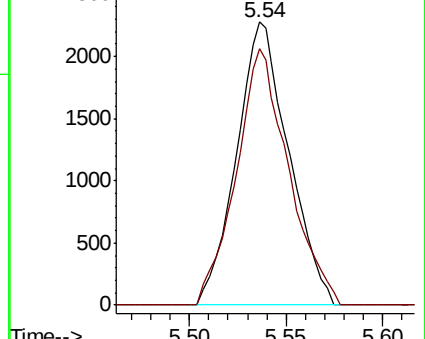
117 100

119 90.9 76.2 114.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.092 ug/L

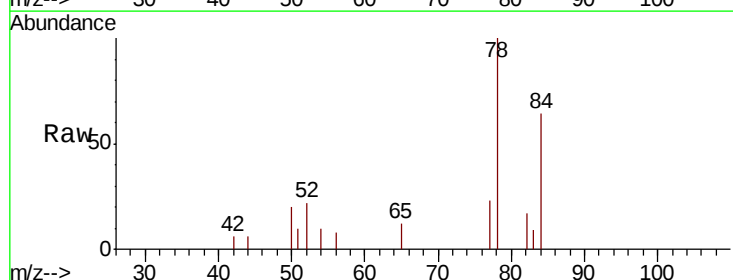
RT: 5.79 min Scan# 1383

Delta R.T. 0.00 min

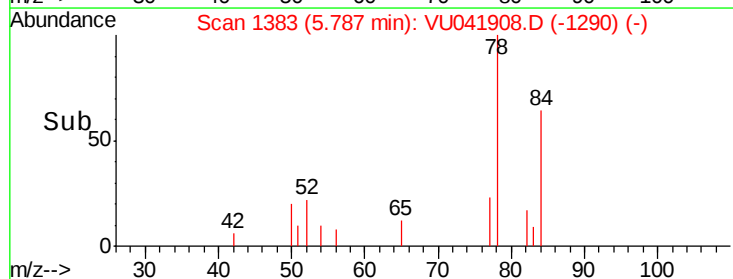
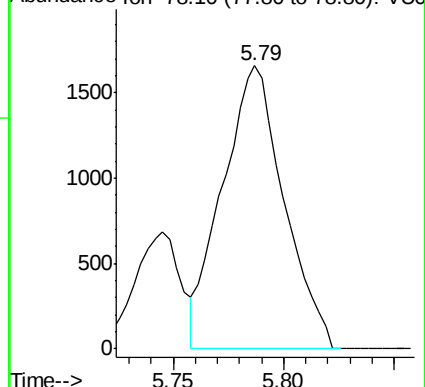
Lab File: VU041908.D

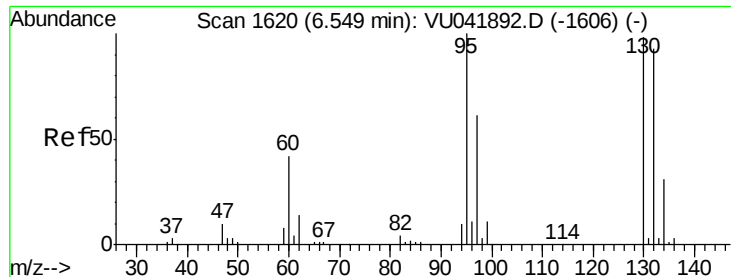
Acq: 08 Jan 2021 16:24

Tgt Ion: 78 Resp: 3202



Abundance Ion 78.10 (77.80 to 78.80): VU0

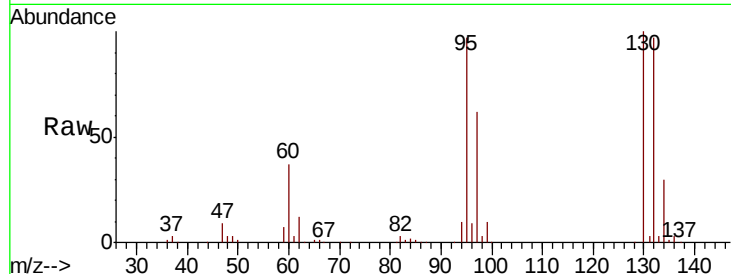




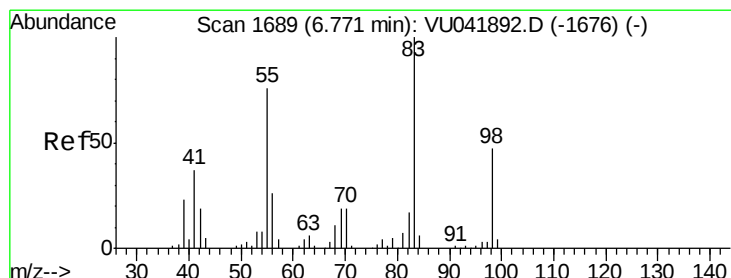
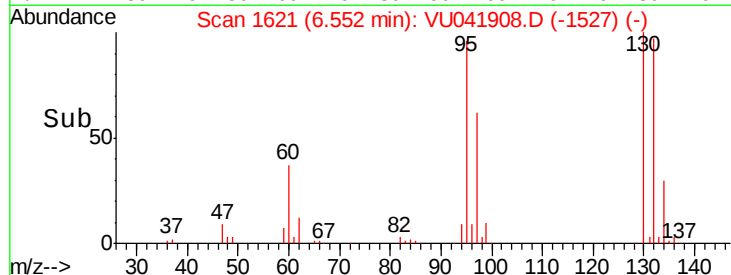
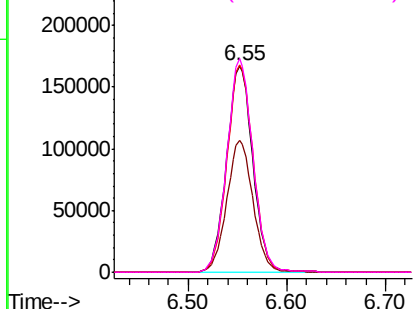
#34
 Trichloroethene
 Concen: 35.747 ug/L
 RT: 6.55 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VU041908.D
 Acq: 08 Jan 2021 16:24

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 95 Resp: 312424
 Ion Ratio Lower Upper
 95 100
 97 64.0 43.9 81.5
 132 100.7 63.1 117.3
 130 103.5 67.4 125.2

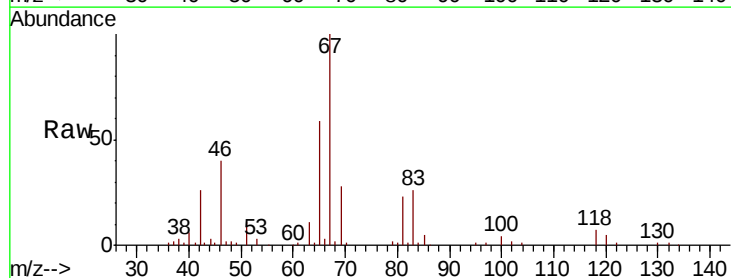


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 96.95 (96.65 to 97.65): VU0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

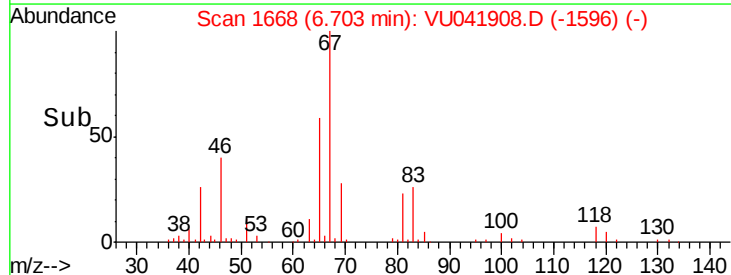
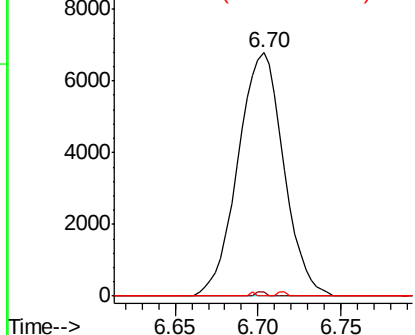


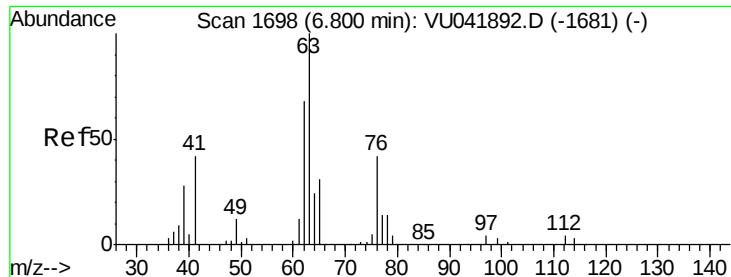
#35
 Methylcyclohexane
 Concen: 0.923 ug/L
 RT: 6.70 min Scan# 1668
 Delta R.T. -0.07 min
 Lab File: VU041908.D
 Acq: 08 Jan 2021 16:24

Tgt Ion: 83 Resp: 13043
 Ion Ratio Lower Upper
 83 100
 55 0.4 61.2 91.8#
 98 0.0 36.6 54.8#



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

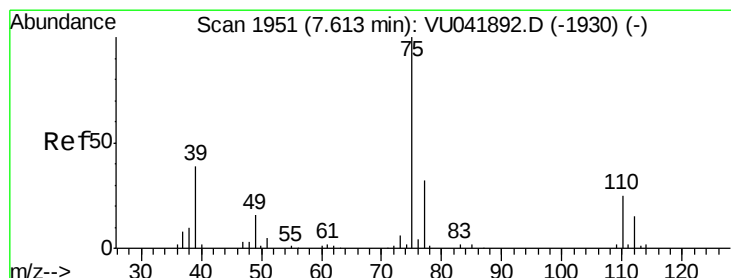
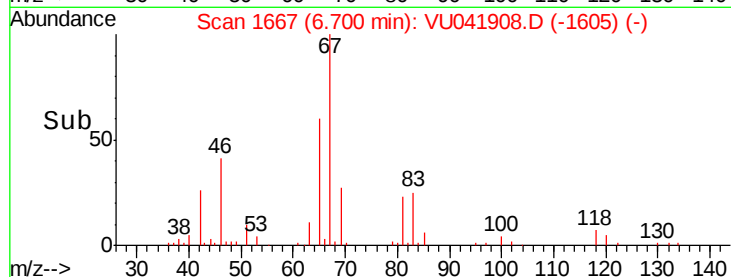
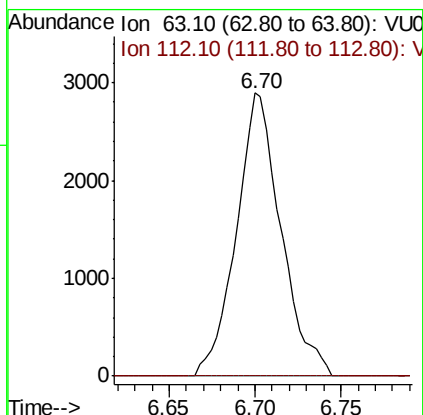
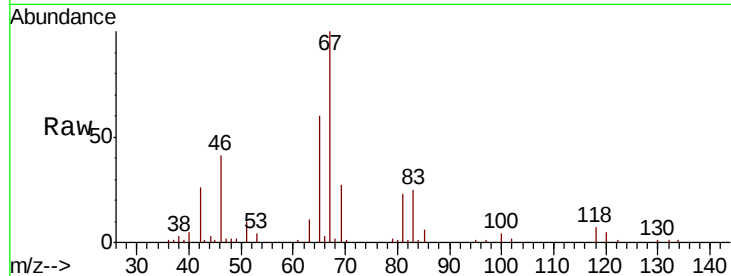




#37
 1,2-Dichloropropane
 Concen: 0.586 ug/L
 RT: 6.70 min Scan# 1667
 Delta R.T. -0.10 min
 Lab File: VU041908.D
 Acq: 08 Jan 2021 16:24

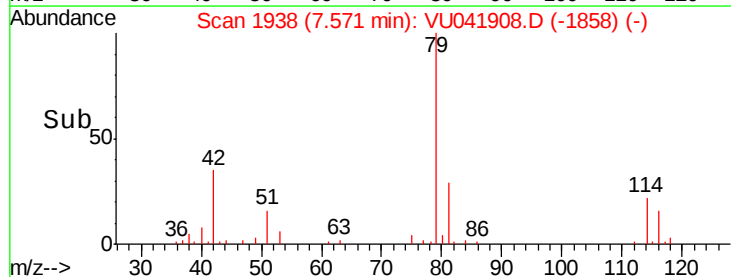
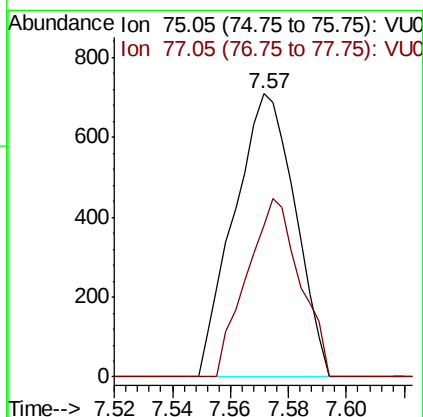
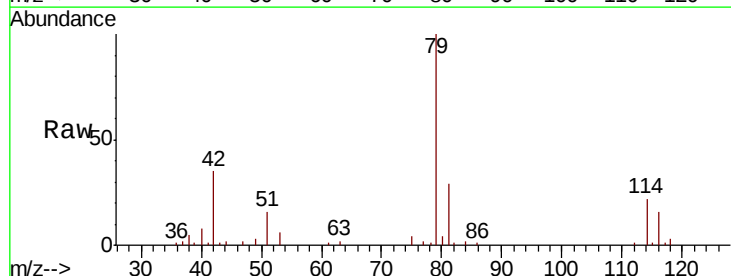
Instrument :
 MSVOA_U
 ClientSampleId :

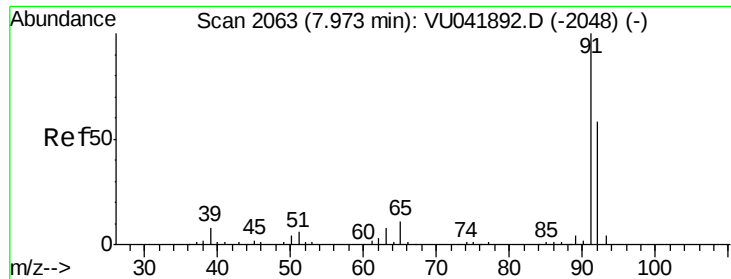
Tot Ion: 63 Resp: 5209
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.079 ug/L
 RT: 7.57 min Scan# 1938
 Delta R.T. -0.04 min
 Lab File: VU041908.D
 Acq: 08 Jan 2021 16:24

Tgt Ion: 75 Resp: 1035
 Ion Ratio Lower Upper
 75 100
 77 53.6 22.3 41.3#





#42

Toluene

Concen: 0.080 ug/L

RT: 7.97 min Scan# 2063

Delta R.T. 0.00 min

Lab File: VU041908.D

Acq: 08 Jan 2021 16:24

Instrument :

MSVOA_U

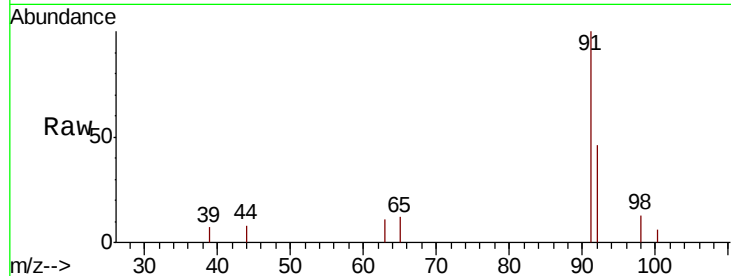
ClientSampleId :

Tot Ion: 91 Resp: 2883

Ion Ratio Lower Upper

91 100

92 45.9 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU041892.D (-2048) (-)

Ion 92.15 (91.85 to 92.85): VU041892.D (-2048) (-)

7.97

2000

1500

1000

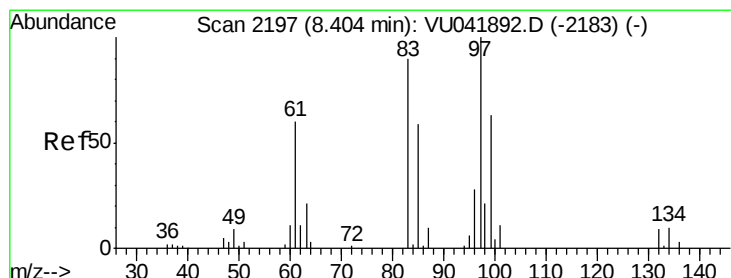
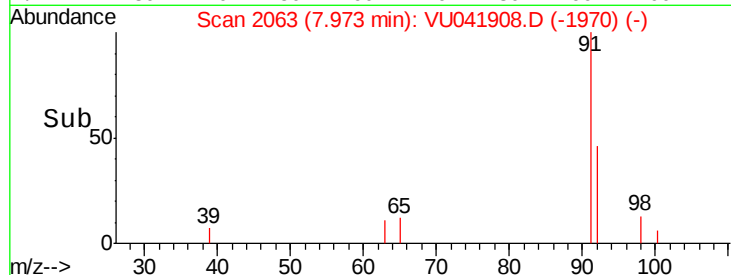
500

0

7.95

8.00

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.168 ug/L

RT: 8.40 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VU041908.D

Acq: 08 Jan 2021 16:24

Tgt Ion: 97 Resp: 1105

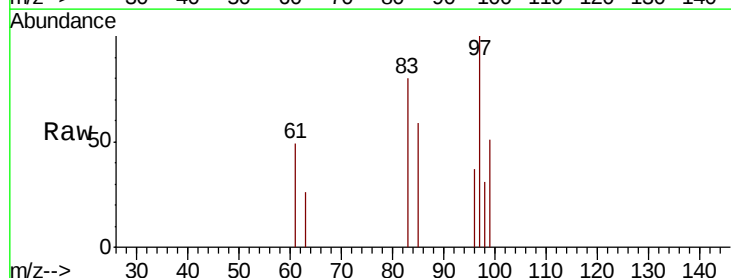
Ion Ratio Lower Upper

97 100

99 51.4 42.1 78.3

83 79.7 62.6 116.2

85 59.3 39.1 72.7



Abundance Ion 96.95 (96.65 to 97.65): VU041892.D (-2183) (-)

Ion 99.05 (98.75 to 99.75): VU041892.D (-2183) (-)

Ion 82.95 (82.65 to 83.65): VU041892.D (-2183) (-)

Ion 85.00 (84.70 to 85.70): VU041892.D (-2183) (-)

8.40

1000

800

600

400

200

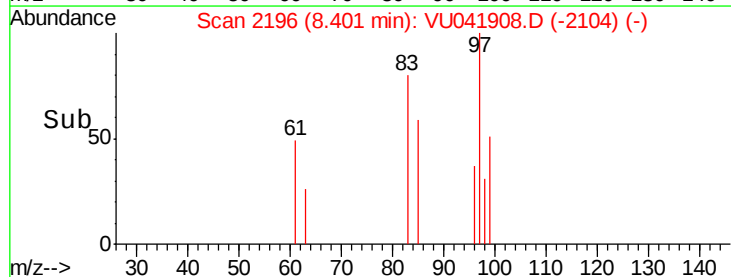
0

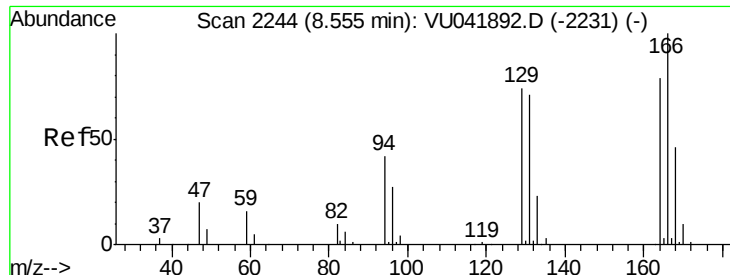
8.35

8.40

8.45

Time-->

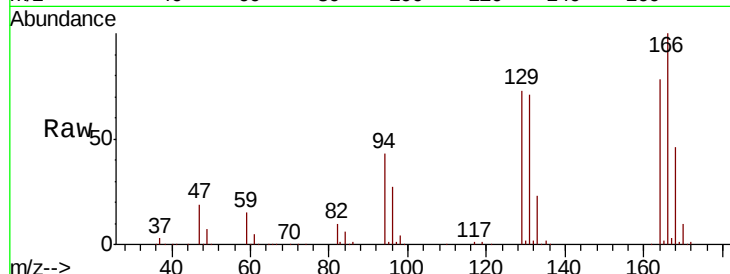




#47
Tetrachloroethene
Concen: 42.842 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. 0.00 min
Lab File: VU041908.D
Acq: 08 Jan 2021 16:24

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
164	100		
129	93.8	72.2	134.0
131	91.2	66.9	124.3
166	127.8	89.6	166.4



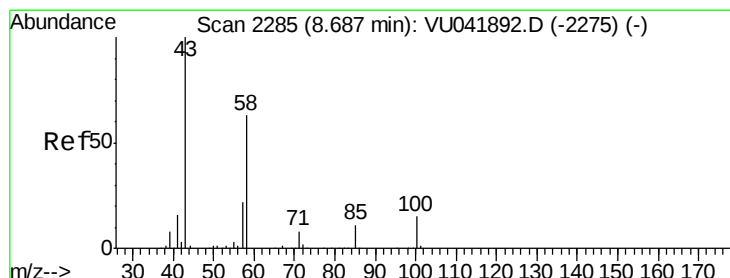
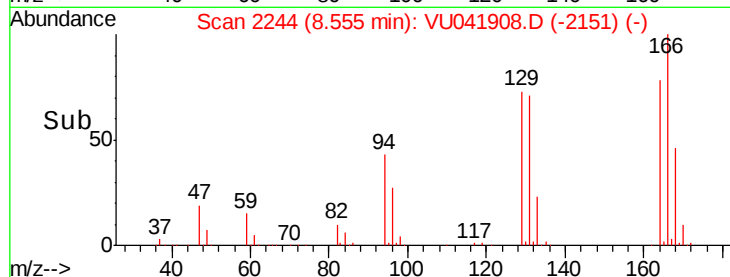
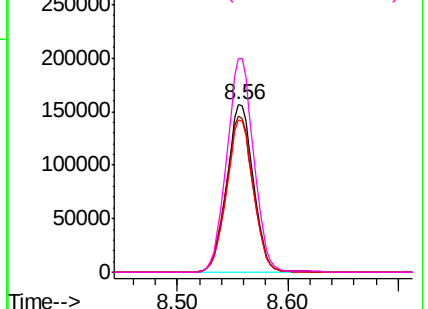
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

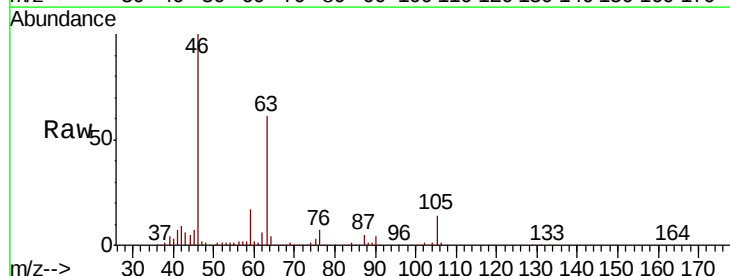
Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48
2-Hexanone
Concen: 3.234 ug/L
RT: 8.64 min Scan# 2270
Delta R.T. -0.05 min
Lab File: VU041908.D
Acq: 08 Jan 2021 16:24

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.8	47.9	71.9#
57	32.3	16.5	24.7#
100	0.8	9.4	14.2#



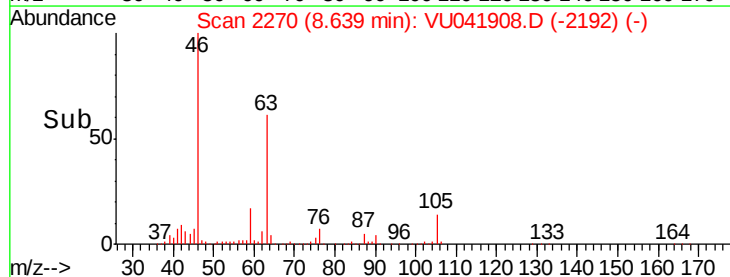
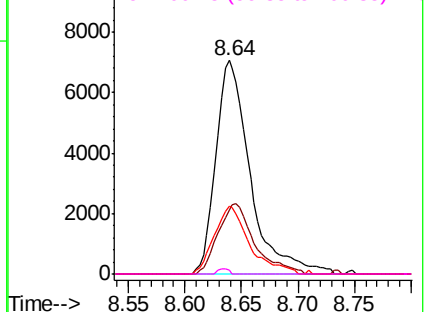
Abundance

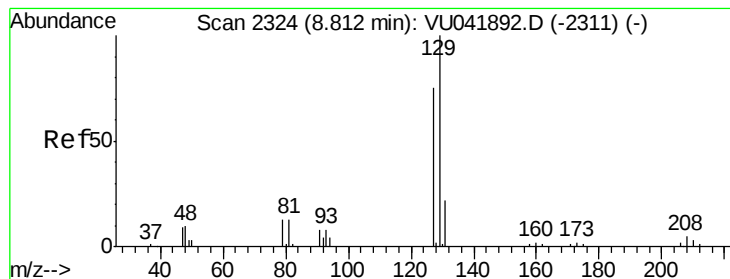
Ion 43.05 (42.75 to 43.75): VU0

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

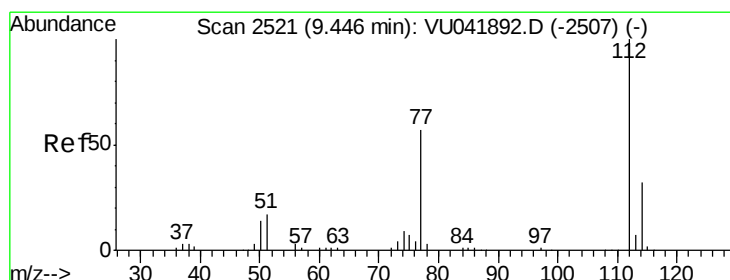
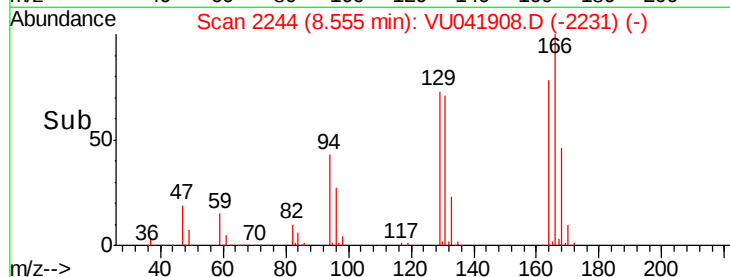
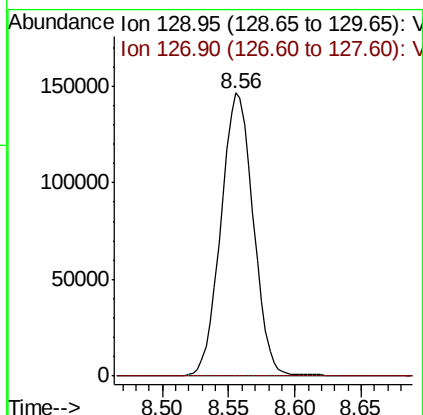
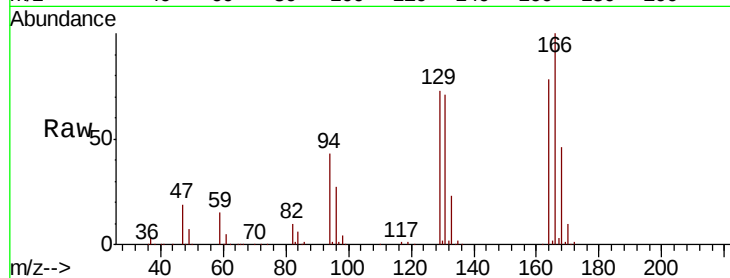




#49
Dibromochloromethane
Concen: 32.670 ug/L
RT: 8.56 min Scan# 2244
Delta R.T. -0.26 min
Lab File: VU041908.D
Acq: 08 Jan 2021 16:24

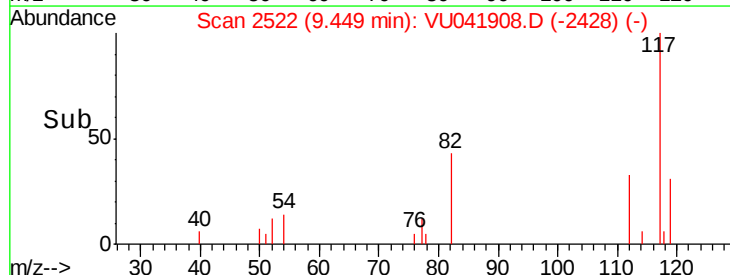
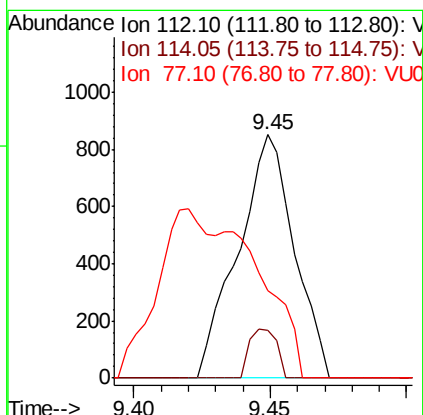
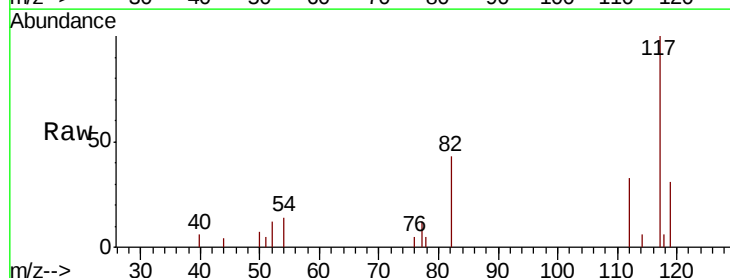
Instrument :
MSVOA_U
ClientSampleId :

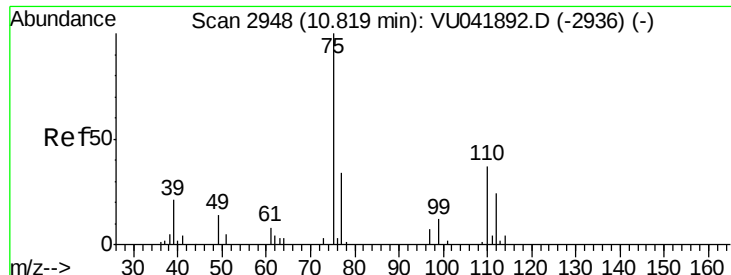
Tot Ion:129 Resp: 246886
Ion Ratio Lower Upper
129 100
127 0.0 54.7 101.7#



#51
Chlorobenzene
Concen: 0.054 ug/L
RT: 9.45 min Scan# 2522
Delta R.T. 0.00 min
Lab File: VU041908.D
Acq: 08 Jan 2021 16:24

Tgt Ion:112 Resp: 1211
Ion Ratio Lower Upper
112 100
114 19.6 22.7 42.3#
77 35.9 49.1 73.7#





#59

1,2,3-Trichloropropane

Concen: 0.693 ug/L

RT: 11.80 min Scan# 3254

Delta R.T. 0.98 min

Lab File: VU041908.D

Acq: 08 Jan 2021 16:24

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 75 Resp: 4627

Ion Ratio Lower Upper

75 100

77 29.9 26.2 39.2

