

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU120821\
 Data File : VU046191.D
 Acq On : 08 Dec 2021 21:28
 Operator : SY/MD
 Sample : M4983-02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 09 04:36:06 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Dec 03 05:08:36 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.250	114	208343	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	205729	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.813	152	109784	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.601	65	60021	34.973	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	69.940%		
7) Chloroethane-d5	1.919	69	46824	35.535	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	71.060%		
11) 1,1-Dichloroethene-d2	2.572	63	89699	29.114	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	58.220%#		
21) 2-Butanone-d5	4.639	46	133747	98.032	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	98.030%		
24) Chloroform-d	5.067	84	119216	41.597	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	83.200%		
26) 1,2-Dichloroethane-d4	5.703	65	82540	42.913	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	85.820%		
32) Benzene-d6	5.729	84	254045	43.084	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	86.160%		
36) 1,2-Dichloropropane-d6	6.694	67	80494	44.047	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	88.100%		
41) Toluene-d8	7.900	98	229392	42.727	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	85.460%		
43) trans-1,3-Dichloroprop...	8.179	79	38767	43.945	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	87.900%		
47) 2-Hexanone-d5	8.633	63	89299	103.062	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	103.060%		
56) 1,1,2,2-Tetrachloroeth...	10.758	84	129190	46.616	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	93.240%		
66) 1,2-Dichlorobenzene-d4	12.192	152	101063	47.801	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	95.600%		
Target Compounds						Qvalue
5) Vinyl chloride	1.607	62	80843	39.546	ug/L	99
8) Chloroethane	1.938	64	164887	139.306	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.572	101	855	0.564	ug/L #	21
12) 1,1-Dichloroethene	2.585	96	8120	5.637	ug/L #	1
17) trans-1,2-Dichloroethene	3.360	96	12624	8.281	ug/L	93
19) 1,1-Dichloroethane	3.877	63	748159	269.910	ug/L	99
20) cis-1,2-Dichloroethene	4.671	96	424070	256.363	ug/L	97
27) 1,2-Dichloroethane	5.797	62	9275	4.058	ug/L	97
30) 1,1,1-Trichloroethane	5.321	97	279578	110.709	ug/L	98
31) Carbon tetrachloride	5.321	117	35557	16.585	ug/L	97
33) Benzene	5.781	78	5176	0.831	ug/L	100
34) Trichloroethene	6.543	95	14621	8.913	ug/L	95
37) 1,2-Dichloropropane	6.694	63	8616	5.282	ug/L #	86
39) cis-1,3-Dichloropropene	7.568	75	2202	0.887	ug/L #	69
46) Tetrachloroethene	8.552	164	6622	5.493	ug/L	95
49) Dibromochloromethane	8.555	129	6953	4.046	ug/L #	10
60) 1,2,3-Trichloropropane	11.813	75	12103	5.029	ug/L #	65

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Quant Time: Dec 09 04:36:06 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM112921WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Dec 03 05:08:36 2021
Response via : Initial Calibration

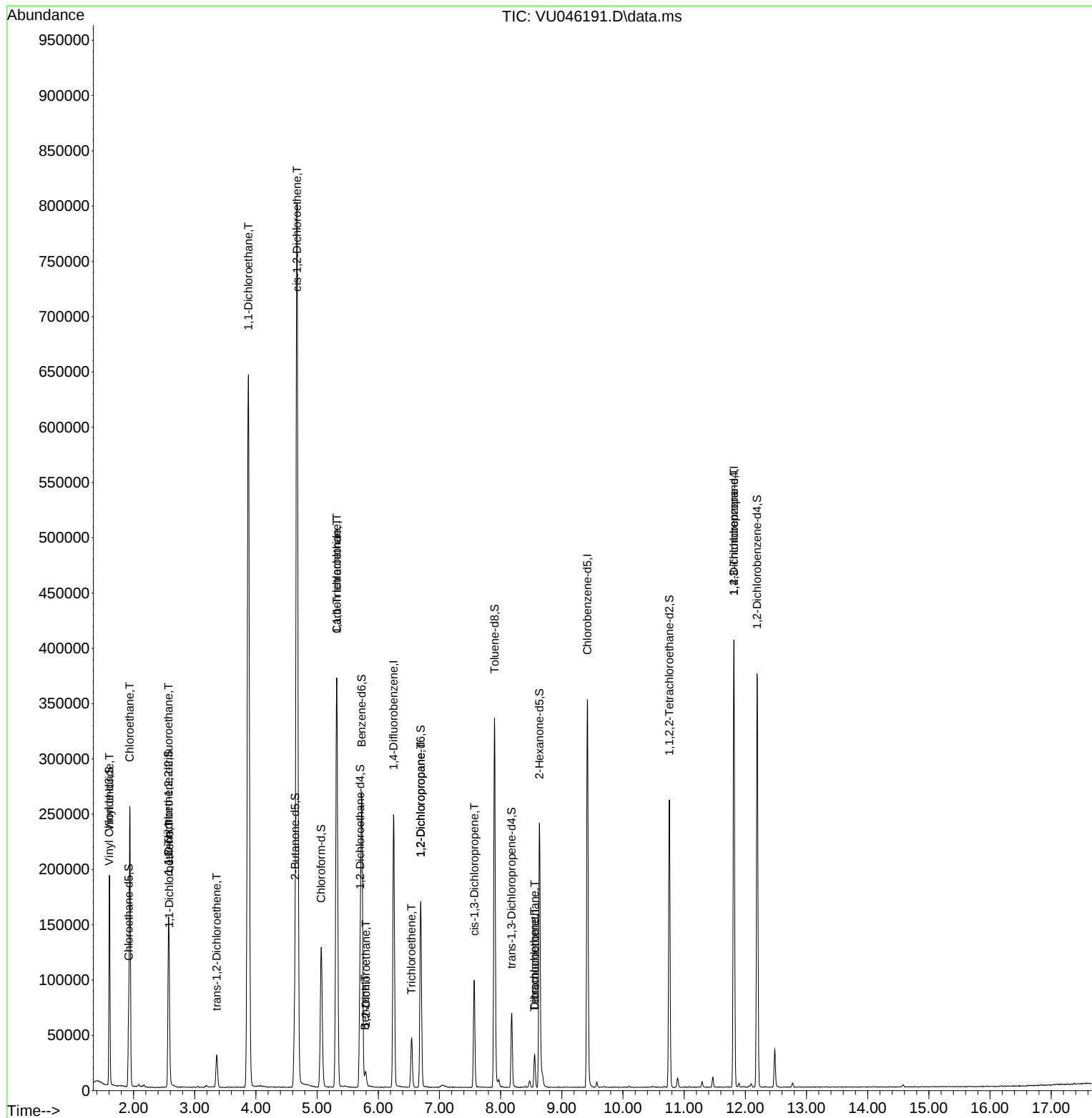
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

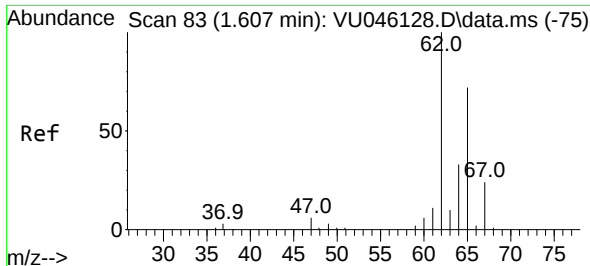
(#) = qualifier out of range (m) = manual integration (+) = signals summed						

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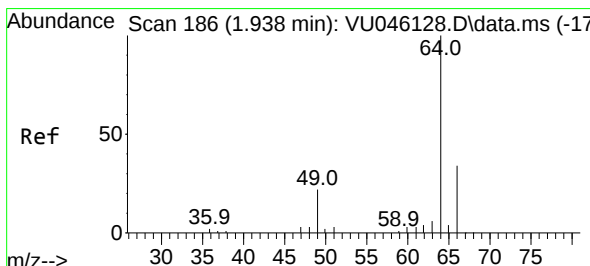
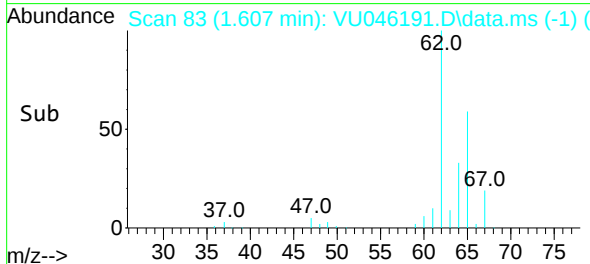
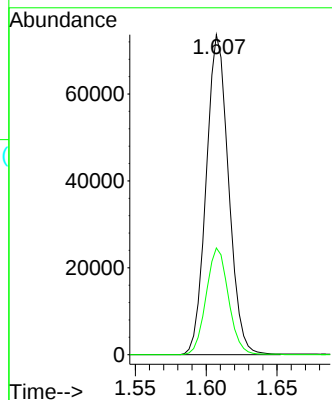
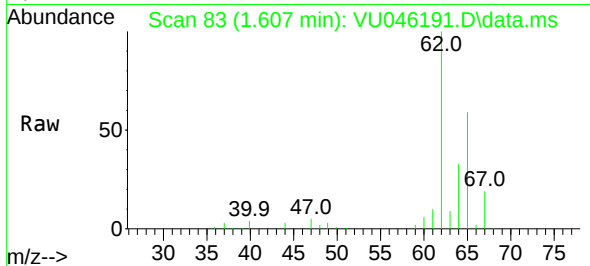




#5
 Vinyl chloride
 Concen: 39.546 ug/L
 RT: 1.607 min Scan# 83
 Delta R.T. 0.000 min
 Lab File: VU046191.D
 Acq: 08 Dec 2021 21:28

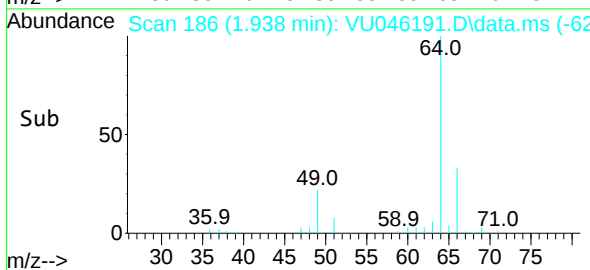
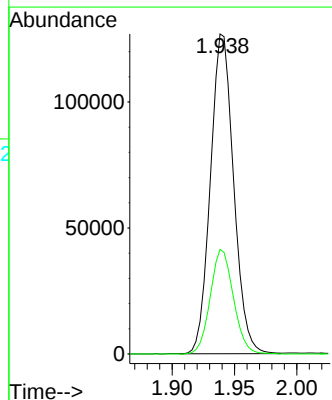
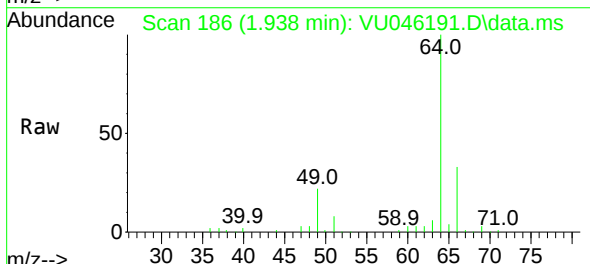
Instrument :
 MSVOA_U
 ClientSampleId :

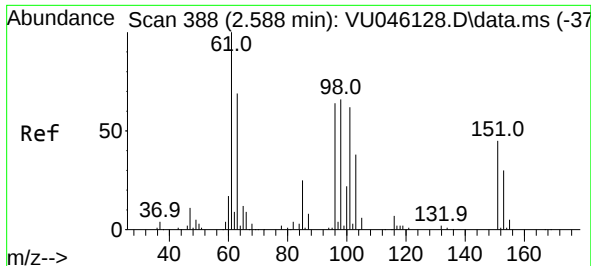
Tgt Ion: 62 Resp: 80843
 Ion Ratio Lower Upper
 62 100
 64 33.3 22.9 42.5



#8
 Chloroethane
 Concen: 139.306 ug/L
 RT: 1.938 min Scan# 186
 Delta R.T. 0.000 min
 Lab File: VU046191.D
 Acq: 08 Dec 2021 21:28

Tgt Ion: 64 Resp: 164887
 Ion Ratio Lower Upper
 64 100
 66 32.6 22.5 41.9

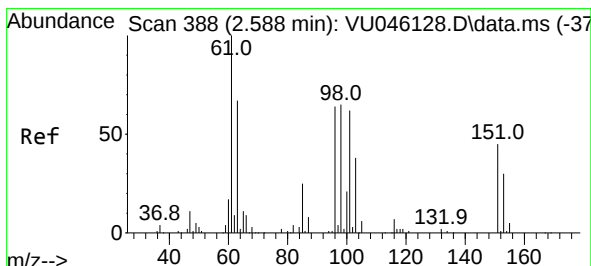
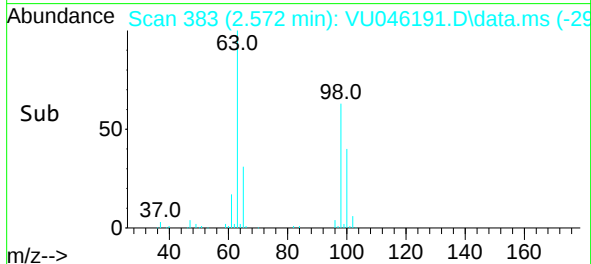
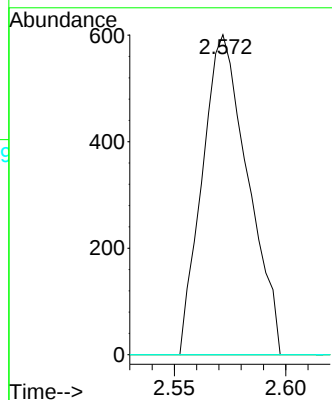
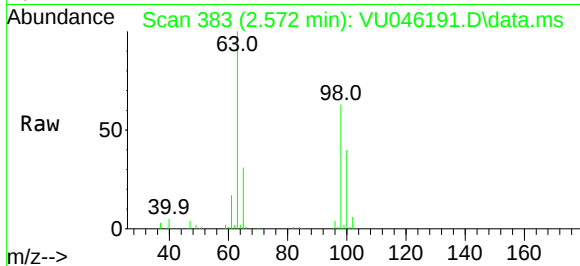




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.564 ug/L
 RT: 2.572 min Scan# 383
 Delta R.T. -0.016 min
 Lab File: VU046191.D
 Acq: 08 Dec 2021 21:28

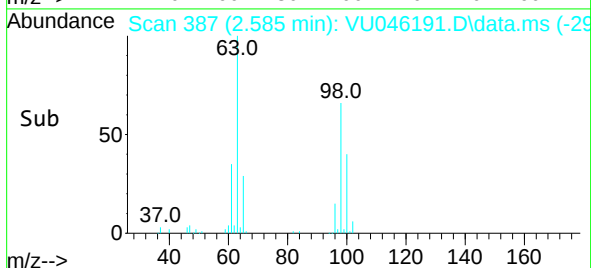
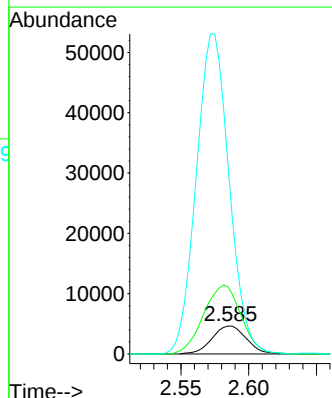
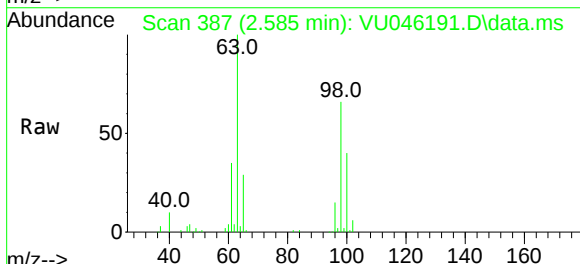
Instrument :
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 ClientSampleId :

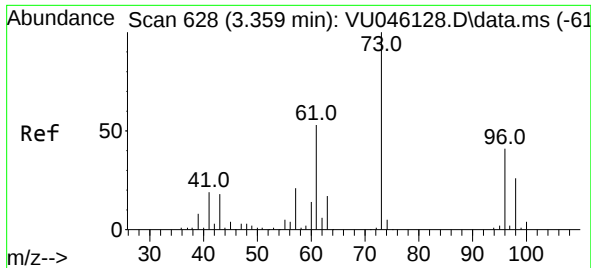
Tgt Ion:101 Resp: 855
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.1 52.7#
 151 0.0 56.7 85.1#



#12
 1,1-Dichloroethene
 Concen: 5.637 ug/L
 RT: 2.585 min Scan# 387
 Delta R.T. 0.000 min
 Lab File: VU046191.D
 Acq: 08 Dec 2021 21:28

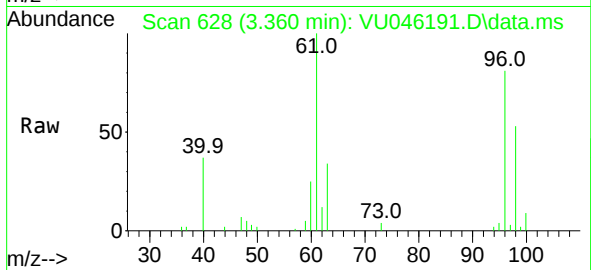
Tgt Ion: 96 Resp: 8120
 Ion Ratio Lower Upper
 96 100
 61 240.8 118.6 220.2#
 63 684.1 93.0 172.8#



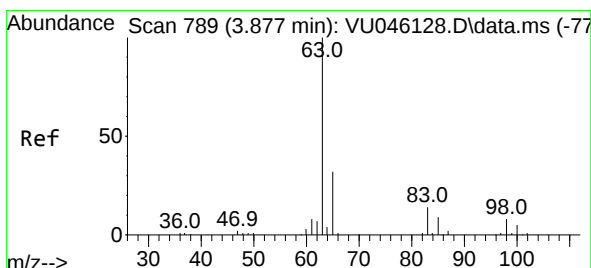
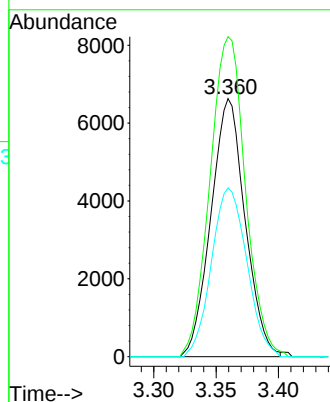
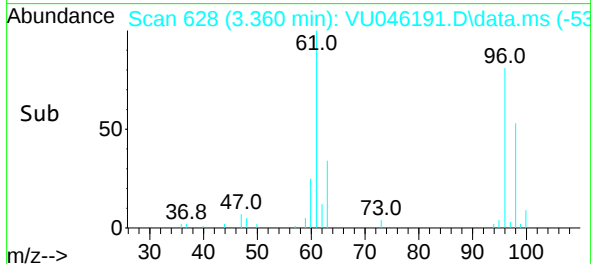


#17
trans-1,2-Dichloroethene
Concen: 8.281 ug/L
RT: 3.360 min Scan# 61
Delta R.T. 0.000 min
Lab File: VU046191.D
Acq: 08 Dec 2021 21:28

Instrument :
MSVOA_U
ClientSampleId :

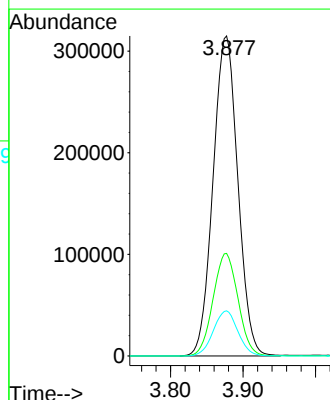
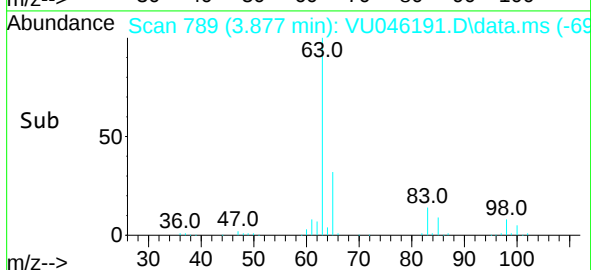
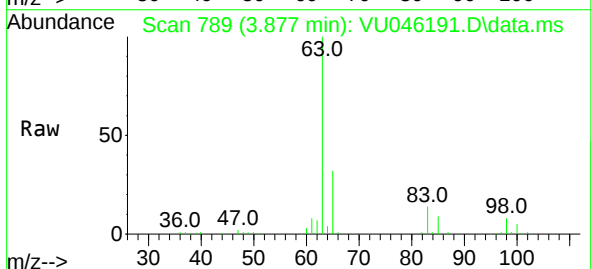


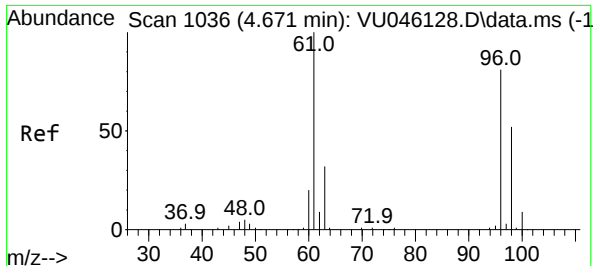
Tgt Ion: 96 Resp: 12624
Ion Ratio Lower Upper
96 100
61 124.0 94.6 175.6
98 65.4 44.0 81.8



#19
1,1-Dichloroethane
Concen: 269.910 ug/L
RT: 3.877 min Scan# 789
Delta R.T. 0.000 min
Lab File: VU046191.D
Acq: 08 Dec 2021 21:28

Tgt Ion: 63 Resp: 748159
Ion Ratio Lower Upper
63 100
65 32.0 22.8 42.4
83 14.1 9.6 17.8





#20

cis-1,2-Dichloroethene

Concen: 256.363 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. 0.000 min

Lab File: VU046191.D

Acq: 08 Dec 2021 21:28

Instrument :

MSVOA_U

ClientSampleId :

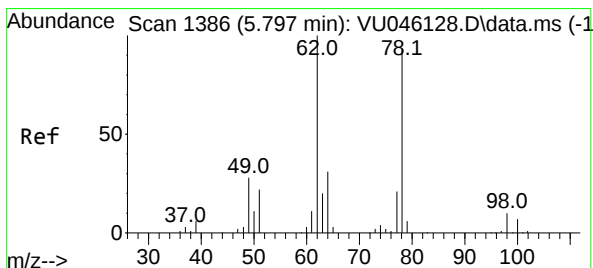
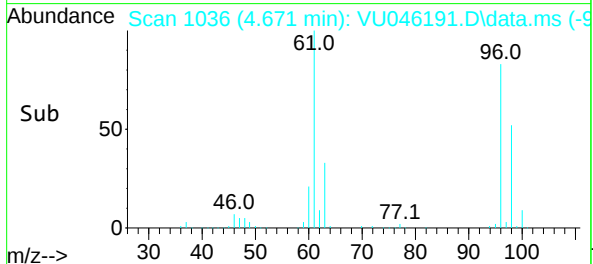
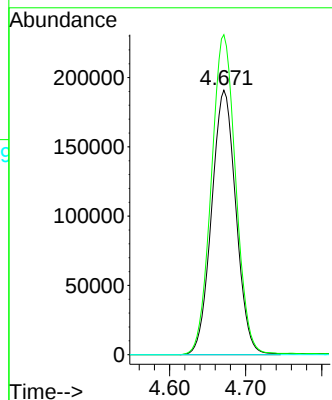
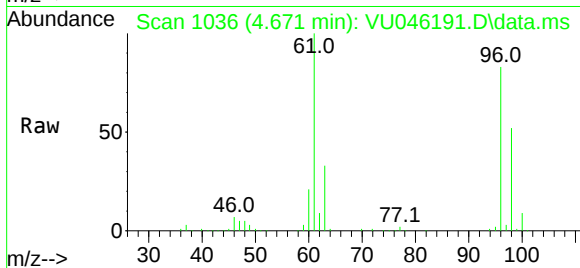
Tgt Ion: 96 Resp: 424070

Ion Ratio Lower Upper

96 100

61 121.0 86.8 161.2

68 0.0 0.0 0.0



#27

1,2-Dichloroethane

Concen: 4.058 ug/L

RT: 5.797 min Scan# 1386

Delta R.T. -0.003 min

Lab File: VU046191.D

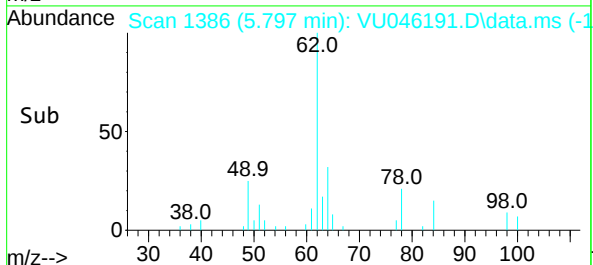
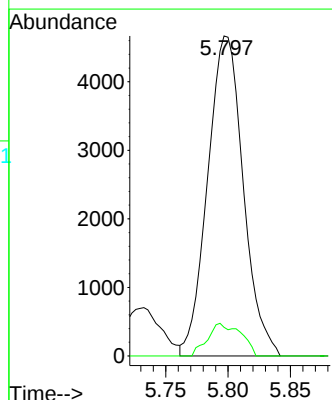
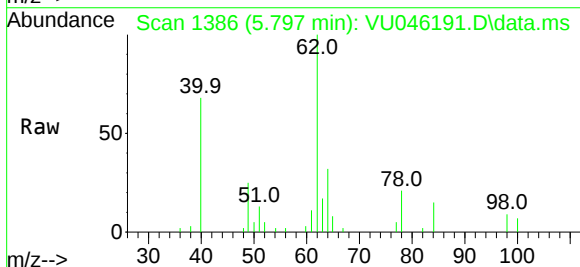
Acq: 08 Dec 2021 21:28

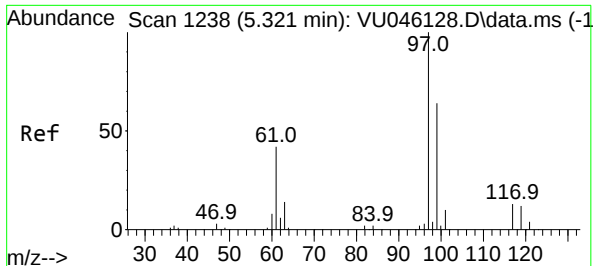
Tgt Ion: 62 Resp: 9275

Ion Ratio Lower Upper

62 100

98 9.0 7.9 11.9





#30

1,1,1-Trichloroethane

Concen: 110.709 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. 0.000 min

Lab File: VU046191.D

Acq: 08 Dec 2021 21:28

Instrument :

MSVOA_U

ClientSampleId :

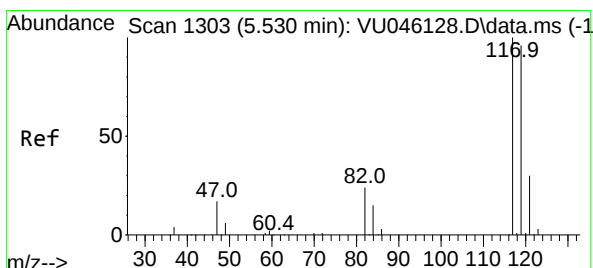
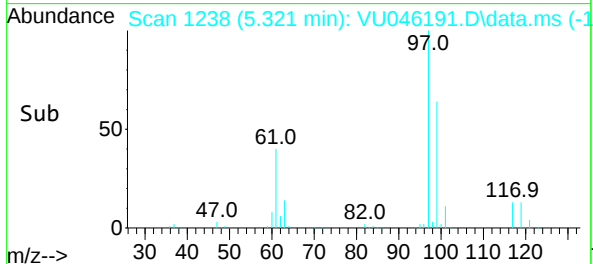
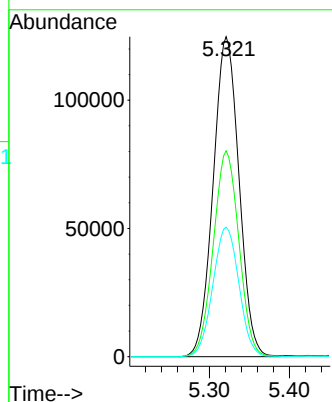
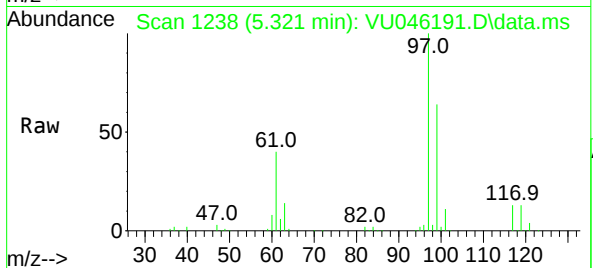
Tgt Ion: 97 Resp: 279578

Ion Ratio Lower Upper

97 100

99 63.8 51.8 77.6

61 40.9 34.4 51.6



#31

Carbon tetrachloride

Concen: 16.585 ug/L

RT: 5.321 min Scan# 1238

Delta R.T. -0.209 min

Lab File: VU046191.D

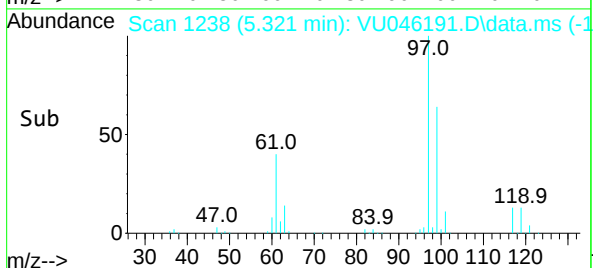
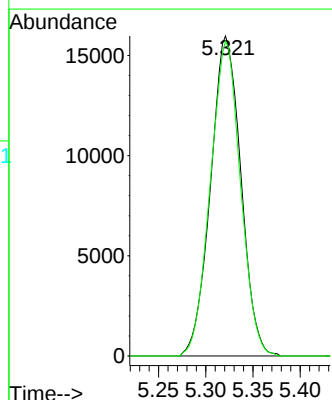
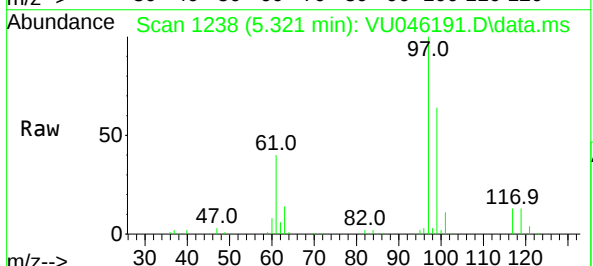
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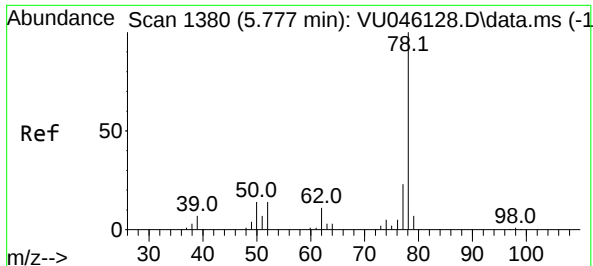
Tgt Ion: 117 Resp: 35557

Ion Ratio Lower Upper

117 100

119 97.6 75.7 113.5

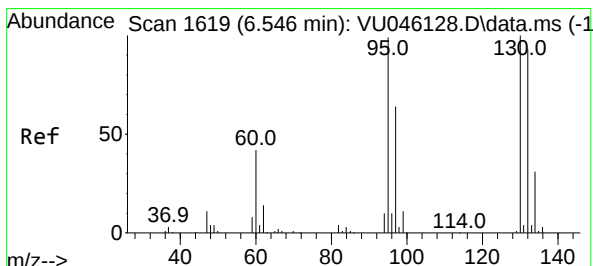
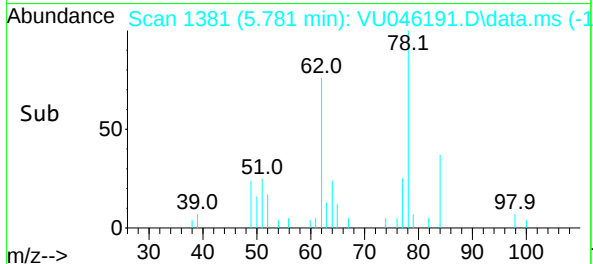
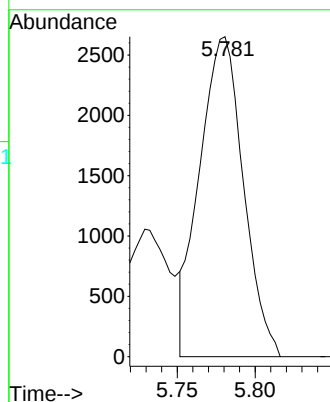
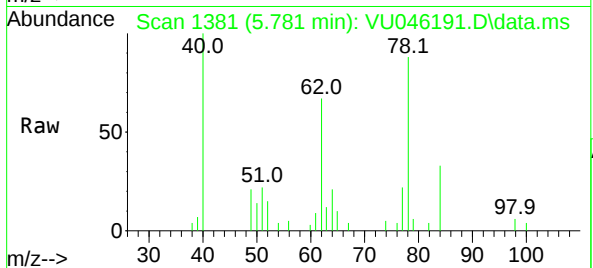




#33
Benzene
Concen: 0.831 ug/L
RT: 5.781 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU046191.D
Acq: 08 Dec 2021 21:28

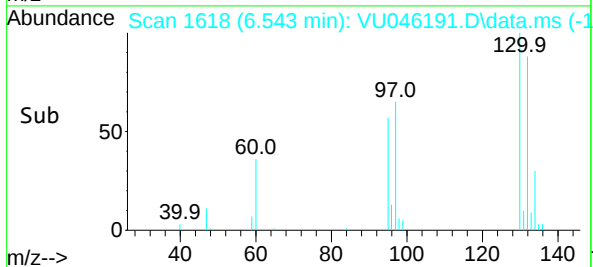
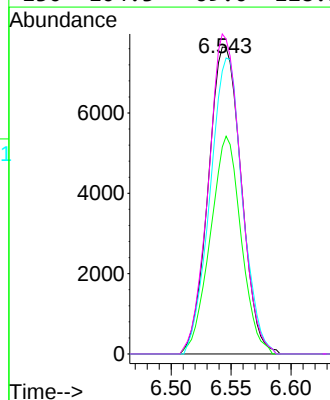
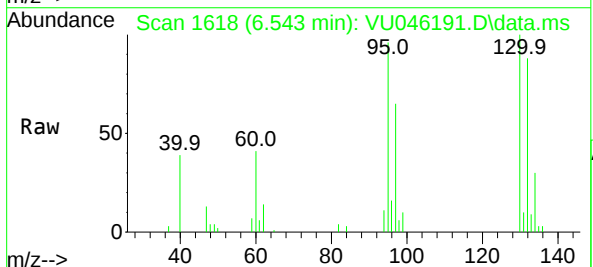
Instrument :
MSVOA_U
ClientSampleId :

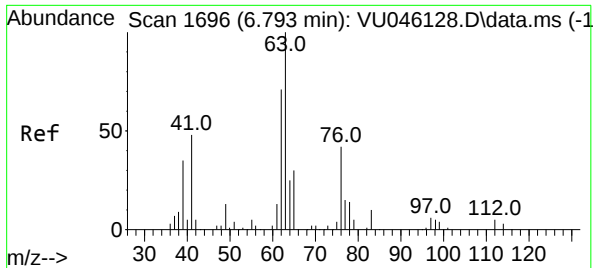
Tgt Ion: 78 Resp: 5176



#34
Trichloroethene
Concen: 8.913 ug/L
RT: 6.543 min Scan# 1618
Delta R.T. -0.003 min
Lab File: VU046191.D
Acq: 08 Dec 2021 21:28

Tgt Ion: 95 Resp: 14621
Ion Ratio Lower Upper
95 100
97 67.4 44.1 81.9
132 92.2 66.8 124.0
130 104.3 69.0 128.1





#37

1,2-Dichloropropane

Concen: 5.282 ug/L

RT: 6.694 min Scan# 1

Delta R.T. -0.099 min

Lab File: VU046191.D

Acq: 08 Dec 2021 21:28

Instrument :

MSVOA_U

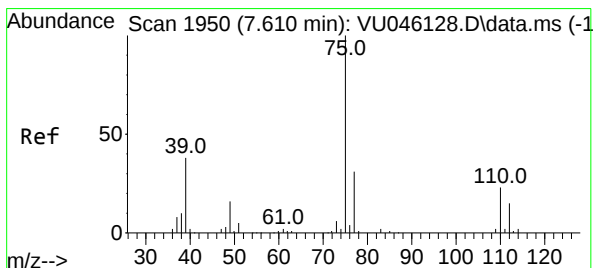
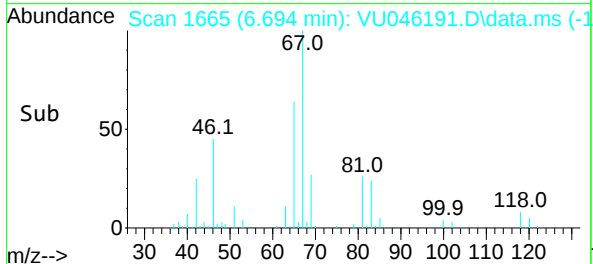
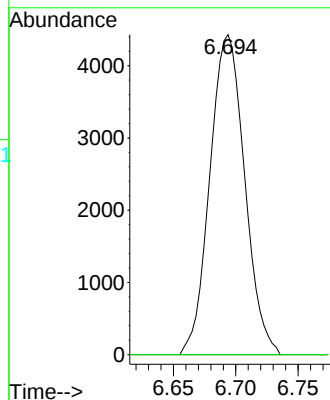
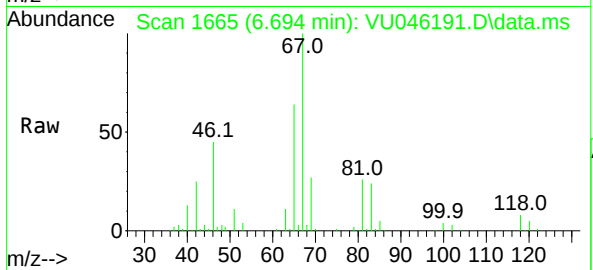
ClientSampleId :

Tgt Ion: 63 Resp: 8616

Ion Ratio Lower Upper

63 100

112 0.0 3.8 5.6#



#39

cis-1,3-Dichloropropene

Concen: 0.887 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU046191.D

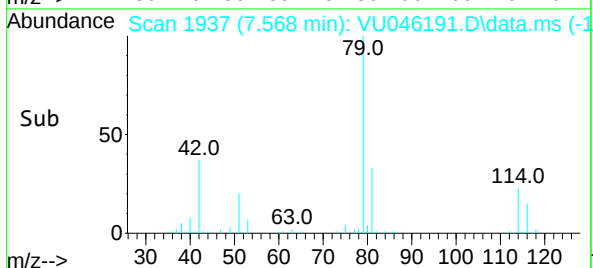
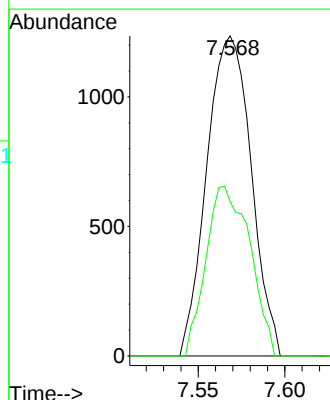
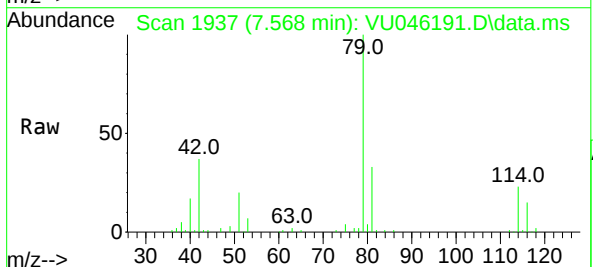
Acq: 08 Dec 2021 21:28

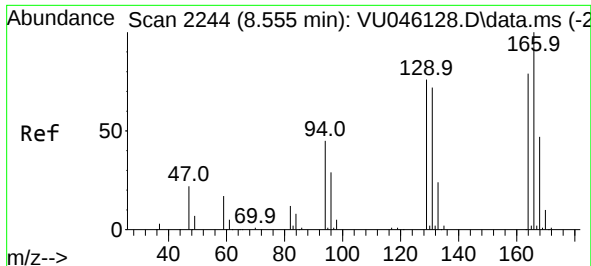
Tgt Ion: 75 Resp: 2202

Ion Ratio Lower Upper

75 100

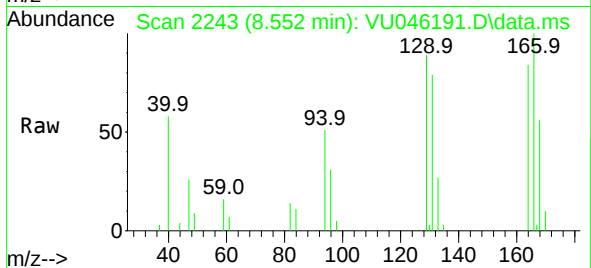
77 48.3 21.8 40.6#



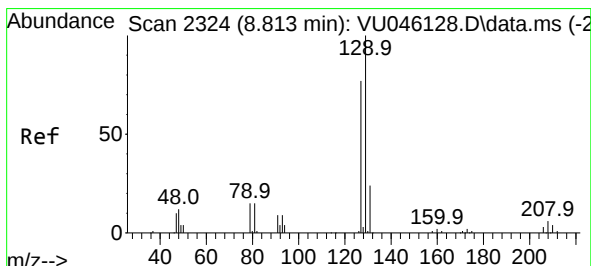
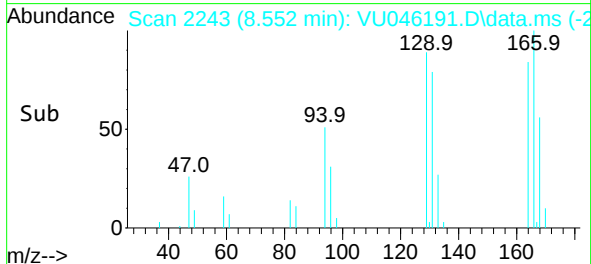
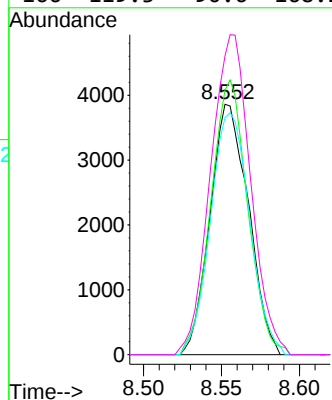


#46
Tetrachloroethene
Concen: 5.493 ug/L
RT: 8.552 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU046191.D
Acq: 08 Dec 2021 21:28

Instrument :
MSVOA_U
ClientSampleId :

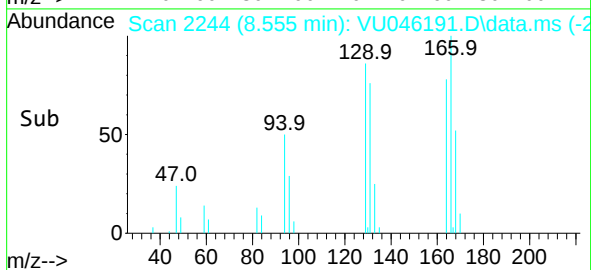
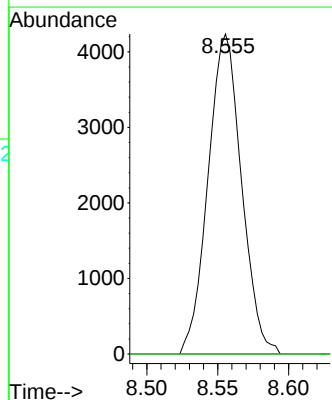
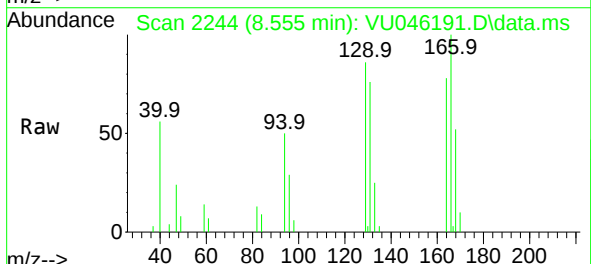


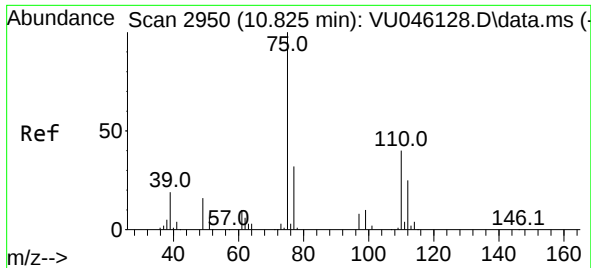
Tgt Ion:164 Resp: 6622
Ion Ratio Lower Upper
164 100
129 105.6 71.1 132.1
131 94.7 67.8 126.0
166 119.3 90.6 168.2



#49
Dibromochloromethane
Concen: 4.046 ug/L
RT: 8.555 min Scan# 2244
Delta R.T. -0.257 min
Lab File: VU046191.D
Acq: 08 Dec 2021 21:28

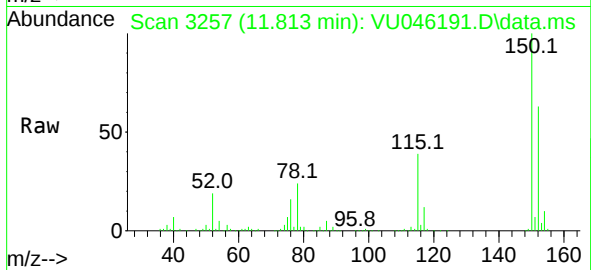
Tgt Ion:129 Resp: 6953
Ion Ratio Lower Upper
129 100
127 0.0 55.6 103.4#





#60
 1,2,3-Trichloropropane
 Concen: 5.029 ug/L
 RT: 11.813 min Scan# 31
 Delta R.T. 0.987 min
 Lab File: VU046191.D
 Acq: 08 Dec 2021 21:28

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	75	Resp:	12103
Ion	Ratio	Lower	Upper
75	100		
77	33.8	26.4	39.6
110	2.0	32.4	48.6#

