

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121621\
 Data File : VX025840.D
 Acq On : 16 Dec 2021 02:25
 Operator : JC/MD
 Sample : M5084-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 C2

Quant Time: Dec 16 07:35:20 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121321W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 14 07:02:11 2021
 Response via : Initial Calibration

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

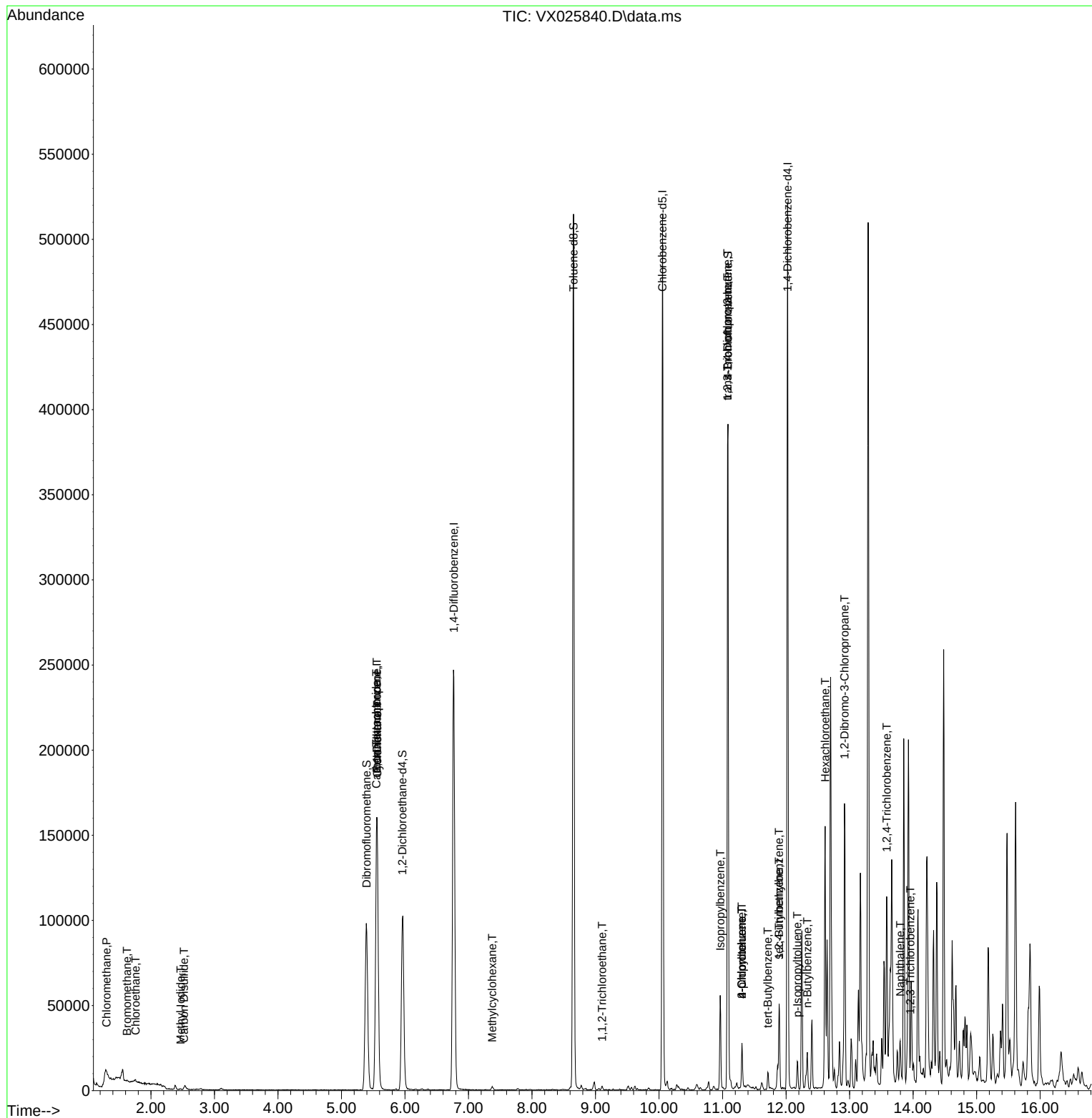
Internal Standards						
1) Pentafluorobenzene	5.556	168	153748	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	257551	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	230438	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	102841	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	97507	44.078	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	88.160%		
35) Dibromofluoromethane	5.397	113	82683	46.032	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.060%		
50) Toluene-d8	8.653	98	298314	45.583	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	91.160%#		
62) 4-Bromofluorobenzene	11.085	95	105767	42.545	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	85.100%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	668	0.373	ug/l	100
5) Bromomethane	1.624	94	353	0.260	ug/l #	68
6) Chloroethane	1.758	64	474	0.344	ug/l #	70
10) Methyl Iodide	2.465	142	606	0.291	ug/l #	91
16) Acetone	2.380	43	2632	Below Cal		95
17) Carbon Disulfide	2.520	76	1383	0.297	ug/l	96
20) Methylene Chloride	2.782	84	40	Below Cal #		7
31) Cyclohexane	5.562	56	3631	1.350	ug/l #	22
36) 1,1-Dichloropropene	5.556	75	11664	4.789	ug/l #	51
38) Carbon Tetrachloride	5.550	117	16173	5.707	ug/l #	15
39) Methylcyclohexane	7.373	83	608	0.223	ug/l #	79
55) 1,1,2-Trichloroethane	9.104	97	801	0.403	ug/l #	15
73) Isopropylbenzene	10.963	105	27163	3.639	ug/l	100
76) 1,2,3-Trichloropropane	11.079	75	54484	23.123	ug/l #	39
78) n-propylbenzene	11.305	91	15482	1.834	ug/l	98
79) 2-Chlorotoluene	11.305	91	15482	2.884	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	54484	71.688	ug/l #	10
82) 4-Chlorotoluene	11.305	91	15482	2.575	ug/l #	44
83) tert-Butylbenzene	11.713	119	4040	0.666	ug/l	92
84) 1,2,4-Trimethylbenzene	11.890	105	26974	4.362	ug/l #	31
85) sec-Butylbenzene	11.890	105	26974	3.699	ug/l	89
86) p-Isopropyltoluene	12.177	119	7106	1.160	ug/l	97
89) n-Butylbenzene	12.335	91	8302	1.625	ug/l	95
90) Hexachloroethane	12.616	117	6754	5.611	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	12.920	75	684	1.170	ug/l #	1
93) 1,2,4-Trichlorobenzene	13.585	180	251	3.484	ug/l #	1
95) Naphthalene	13.798	128	865	2.529	ug/l #	1
96) 1,2,3-Trichlorobenzene	13.957	180	186	3.079	ug/l #	1

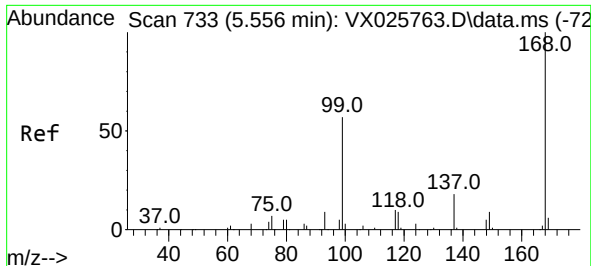
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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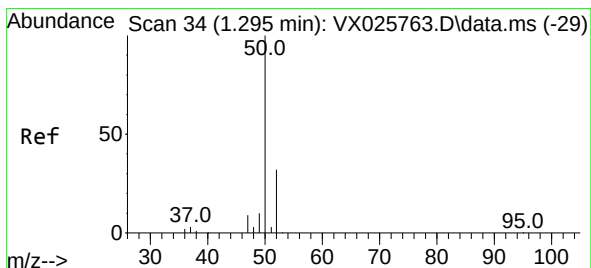
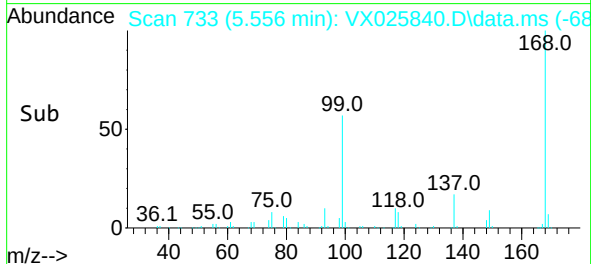
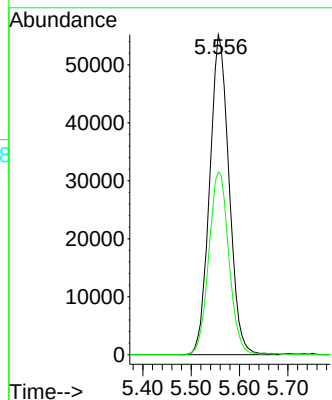
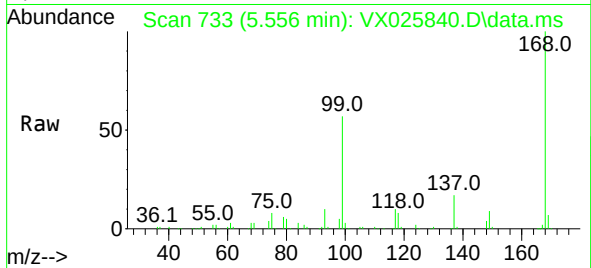




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

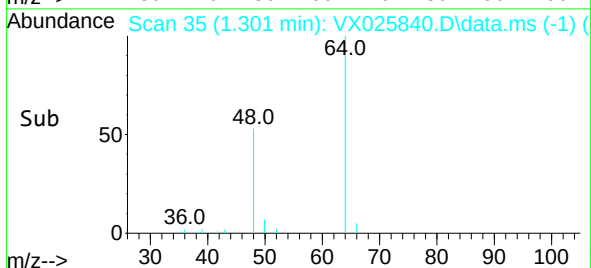
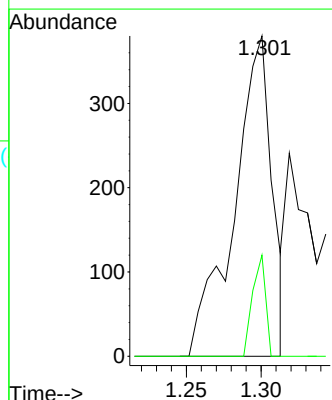
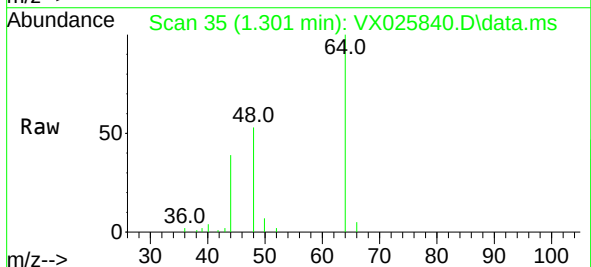
Instrument :
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C2

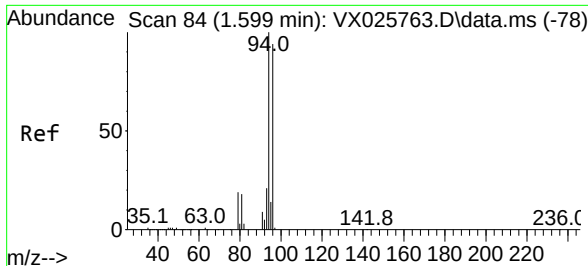
Tgt Ion:168 Resp: 153748
Ion Ratio Lower Upper
168 100
99 57.2 45.8 68.8



#3
Chloromethane
Concen: 0.373 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.006 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion: 50 Resp: 668
Ion Ratio Lower Upper
50 100
52 31.6 25.4 38.0

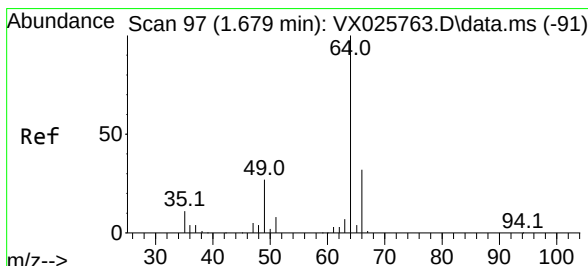
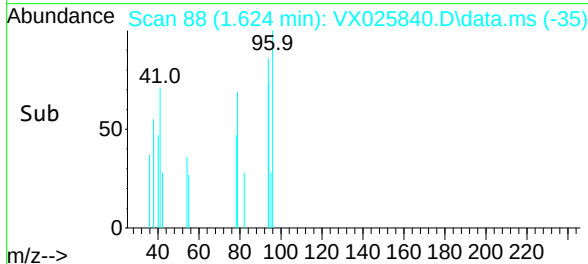
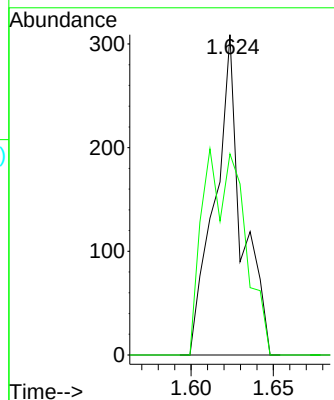
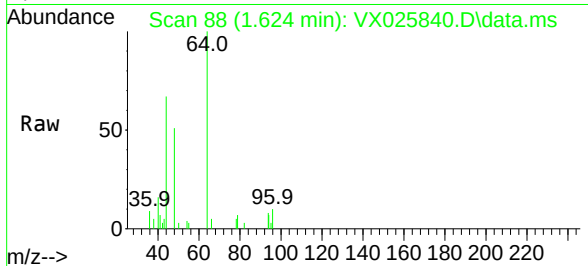




#5
Bromomethane
Concen: 0.260 ug/l
RT: 1.624 min Scan# 84
Delta R.T. 0.024 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

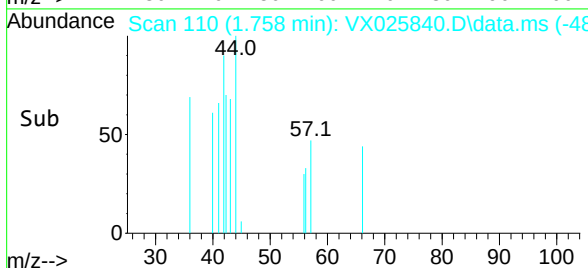
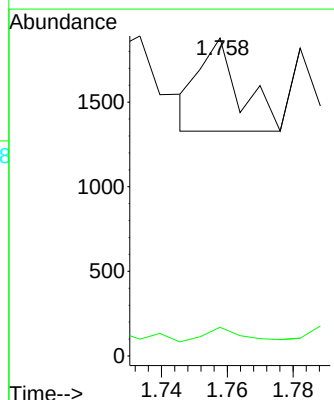
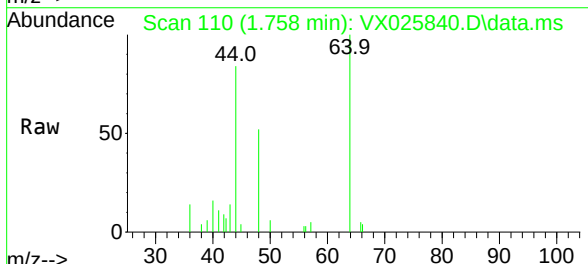
Instrument :
MSVOA_X
ClientSampleId :
C2

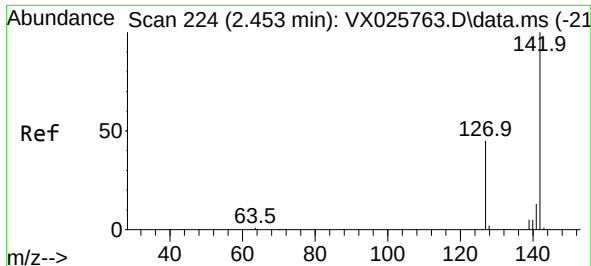
Tgt Ion: 94 Resp: 353
Ion Ratio Lower Upper
94 100
96 62.8 75.0 112.4#



#6
Chloroethane
Concen: 0.344 ug/l
RT: 1.758 min Scan# 110
Delta R.T. 0.079 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion: 64 Resp: 474
Ion Ratio Lower Upper
64 100
66 15.6 25.9 38.9#

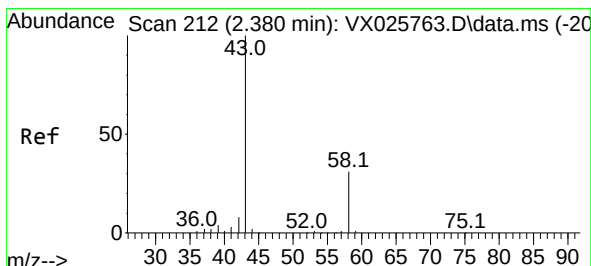
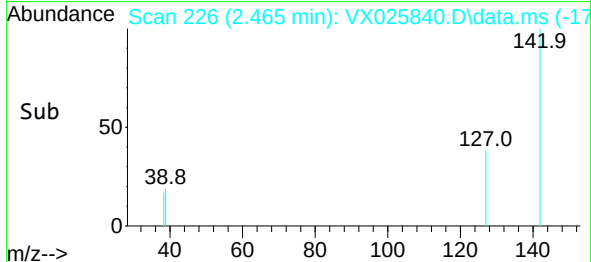
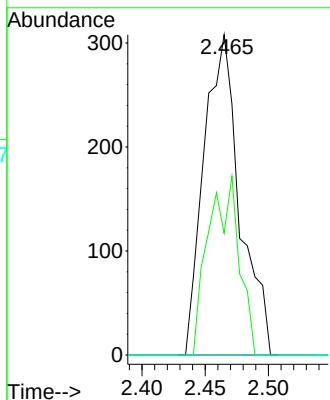
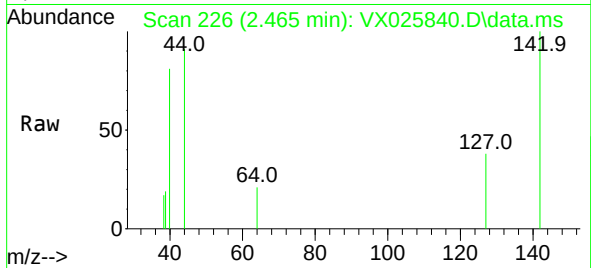




#10
Methyl Iodide
Concen: 0.291 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

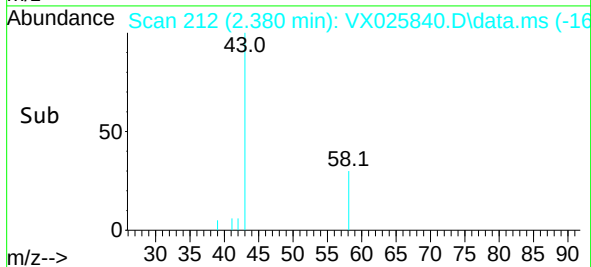
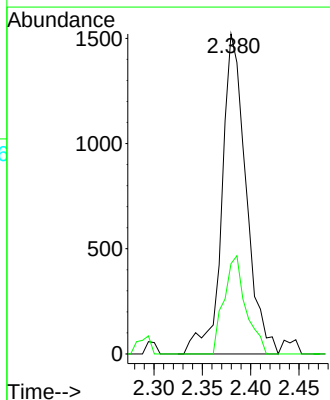
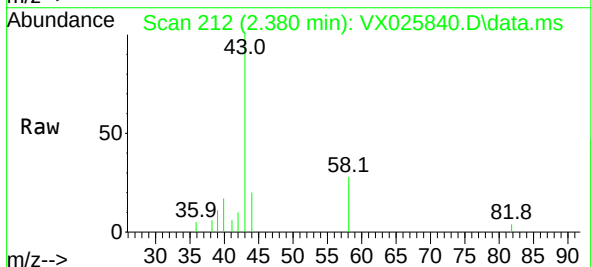
Instrument :
MSVOA_X
ClientSampleId :
C2

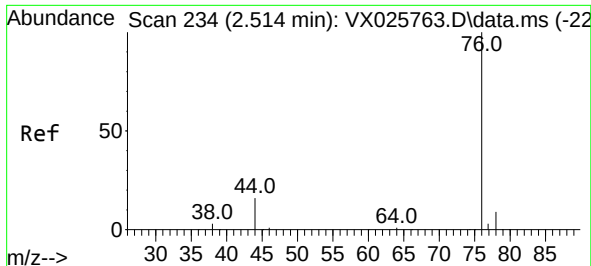
Tgt Ion:142 Resp: 606
Ion Ratio Lower Upper
142 100
127 47.5 37.5 56.3
141 0.0 11.4 17.0#



#16
Acetone
Concen: Below Cal
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion: 43 Resp: 2632
Ion Ratio Lower Upper
43 100
58 28.2 24.8 37.2





#17

Carbon Disulfide

Concen: 0.297 ug/l

RT: 2.520 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX025840.D

Acq: 16 Dec 2021 02:25

Instrument :

MSVOA_X

ClientSampleId :

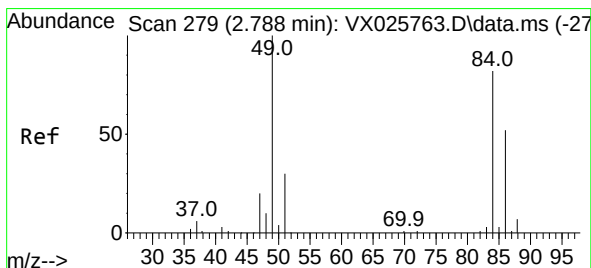
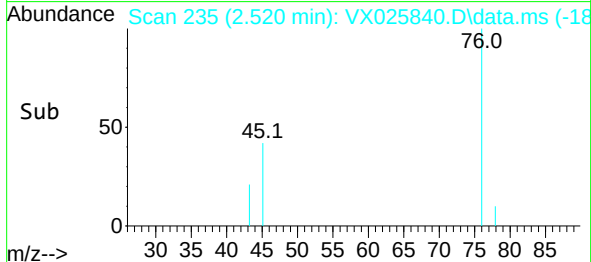
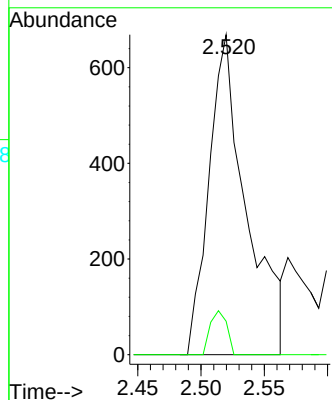
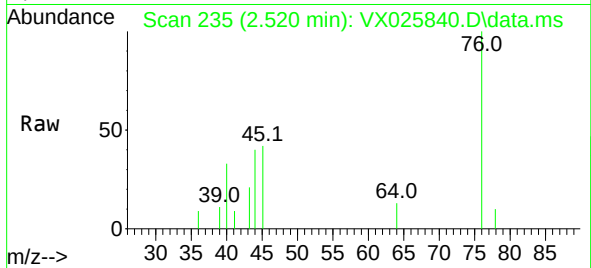
C2

Tgt Ion: 76 Resp: 1383

Ion Ratio Lower Upper

76 100

78 10.5 7.2 10.8



#20

Methylene Chloride

Concen: Below Cal

RT: 2.782 min Scan# 278

Delta R.T. -0.006 min

Lab File: VX025840.D

Acq: 16 Dec 2021 02:25

Tgt Ion: 84 Resp: 40

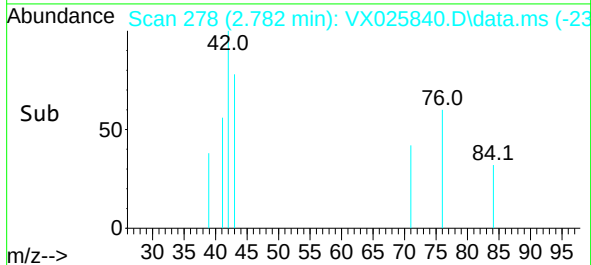
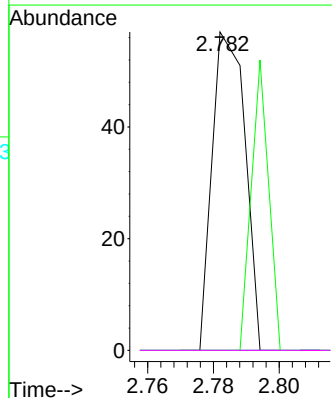
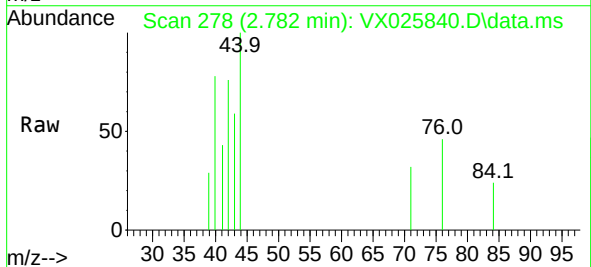
Ion Ratio Lower Upper

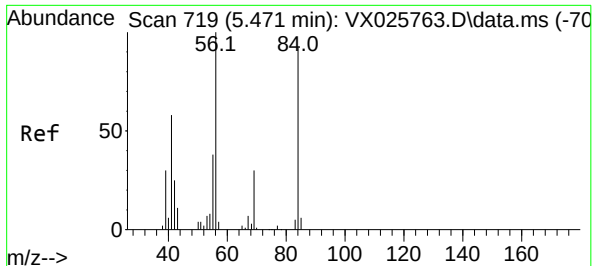
84 100

49 0.0 97.1 145.7#

51 0.0 29.3 43.9#

86 0.0 50.8 76.2#

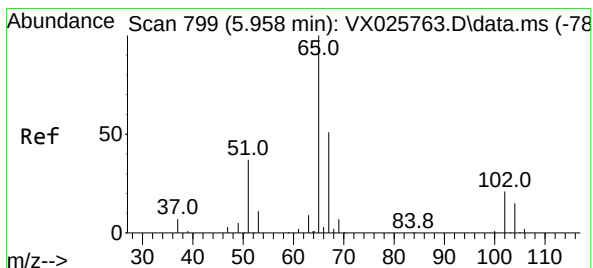
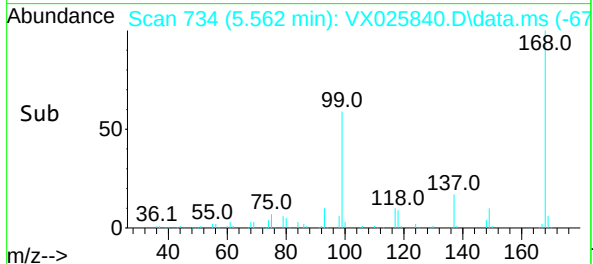
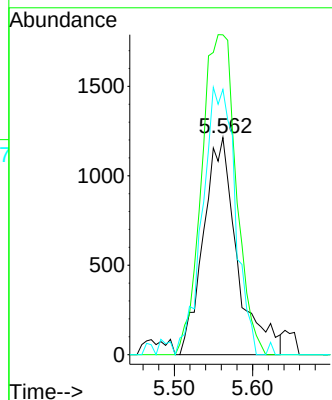
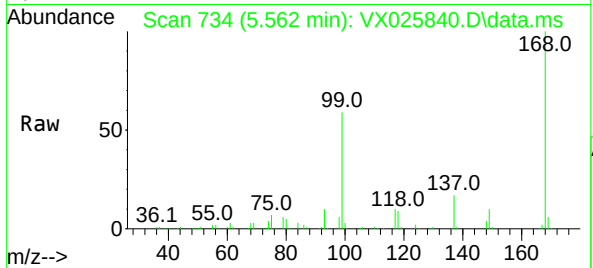




#31
Cyclohexane
Concen: 1.350 ug/l
RT: 5.562 min Scan# 719
Delta R.T. 0.091 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

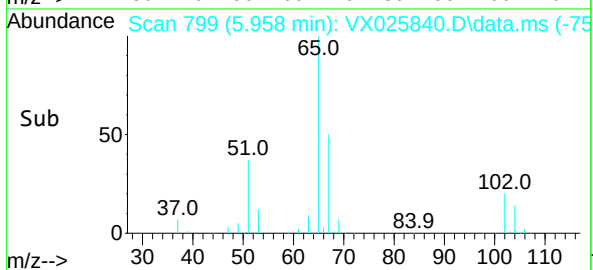
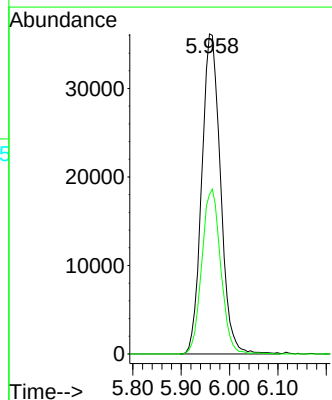
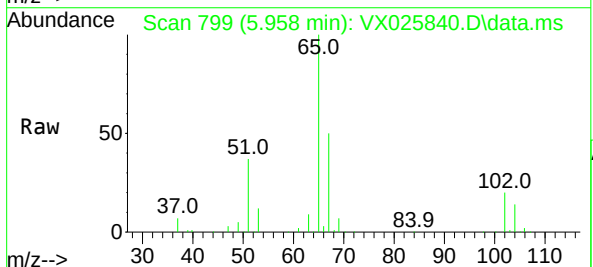
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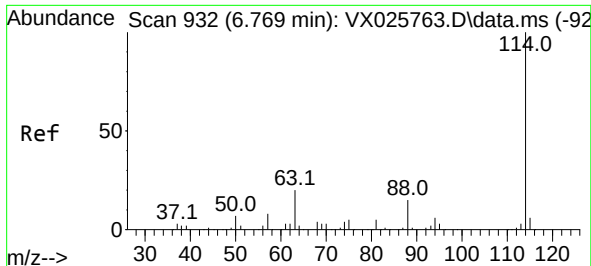
Tgt Ion: 56 Resp: 3631
Ion Ratio Lower Upper
56 100
69 147.3 23.9 35.9#
84 122.2 73.2 109.8#



#33
1,2-Dichloroethane-d4
Concen: 44.078 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion: 65 Resp: 97507
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.4

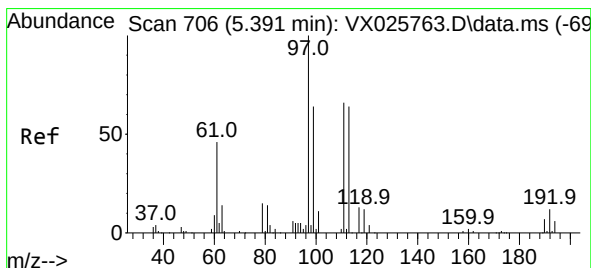
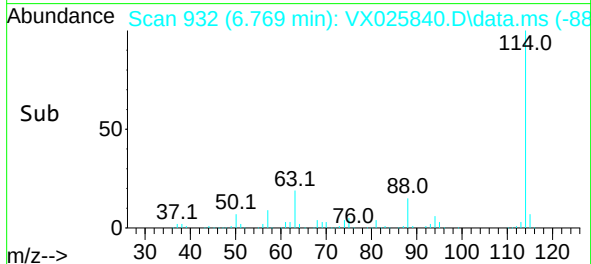
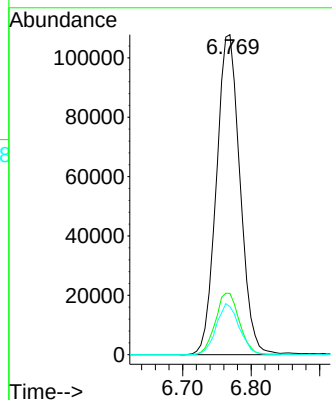
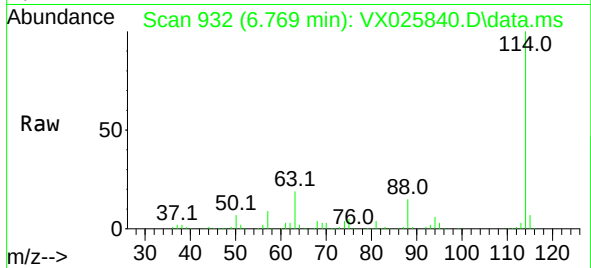




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

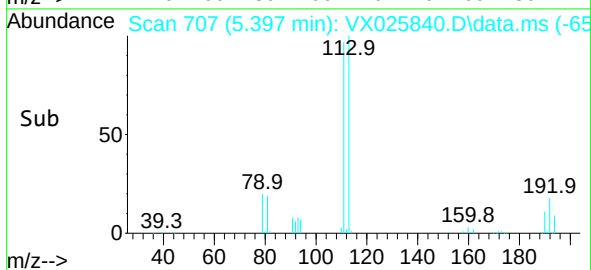
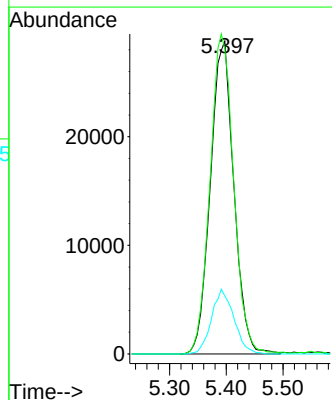
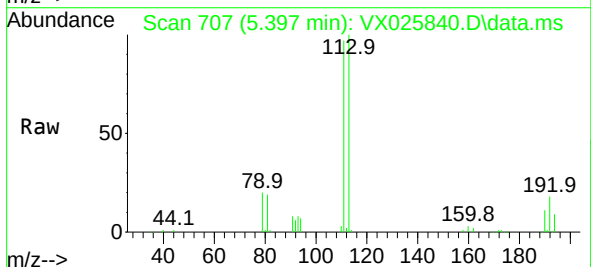
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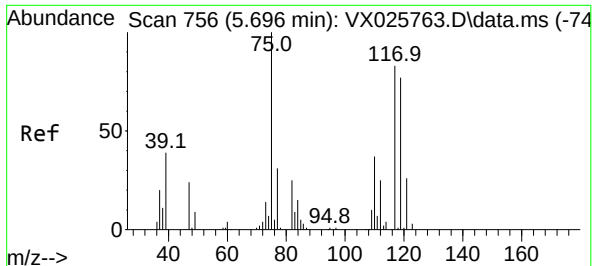
Tgt Ion:114 Resp: 257551
Ion Ratio Lower Upper
114 100
63 19.1 0.0 40.0
88 15.0 0.0 30.6



#35
Dibromofluoromethane
Concen: 46.032 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.006 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion:113 Resp: 82683
Ion Ratio Lower Upper
113 100
111 103.5 81.8 122.8
192 19.8 15.0 22.4

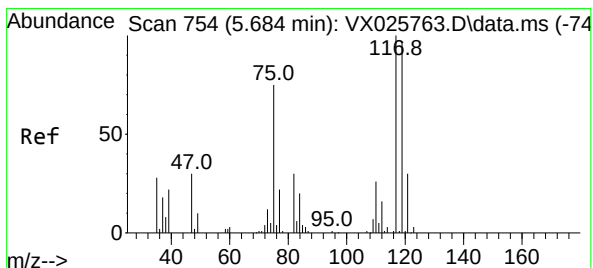
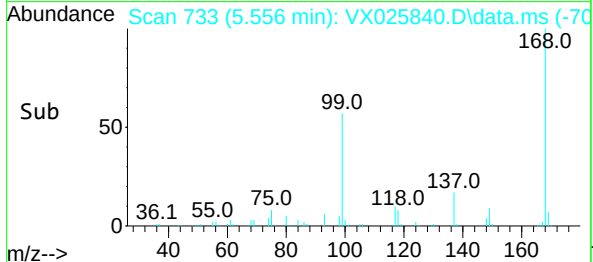
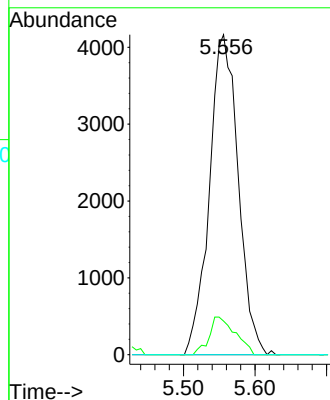
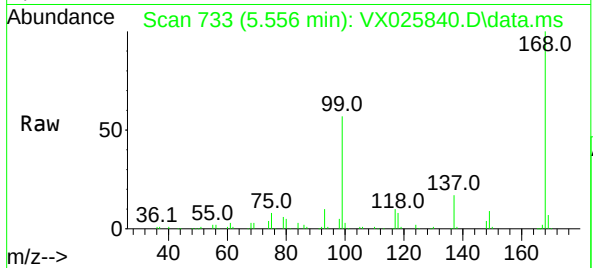




#36
1,1-Dichloropropene
Concen: 4.789 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

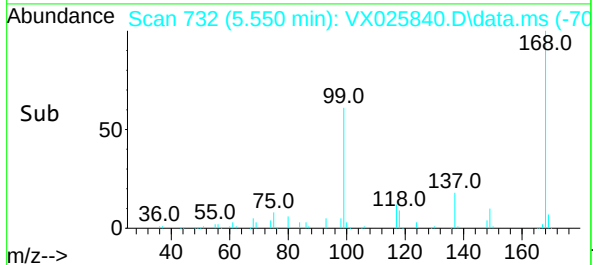
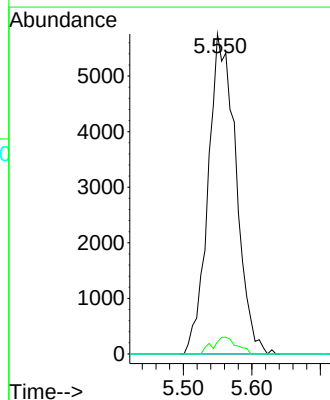
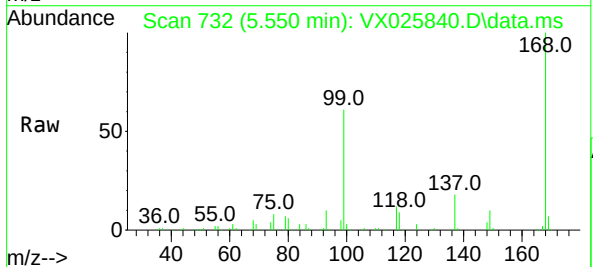
Instrument :
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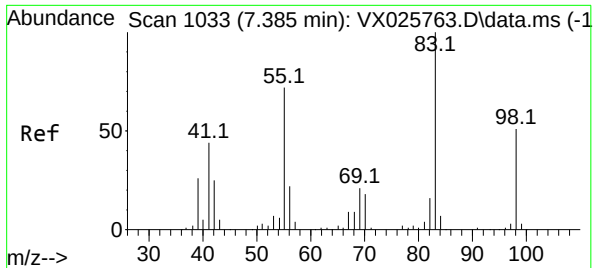
Tgt Ion: 75 Resp: 11664
Ion Ratio Lower Upper
75 100
110 10.7 18.2 54.6#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 5.707 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.134 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion: 117 Resp: 16173
Ion Ratio Lower Upper
117 100
119 3.8 77.2 115.8#
121 0.0 23.8 35.8#

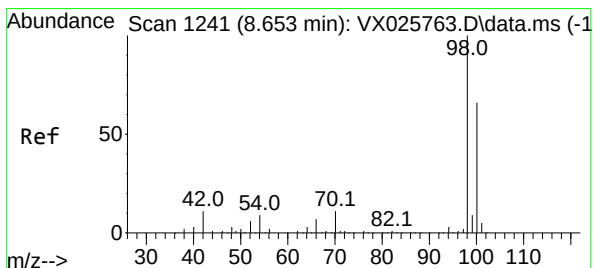
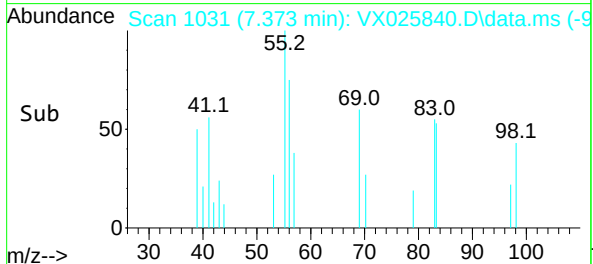
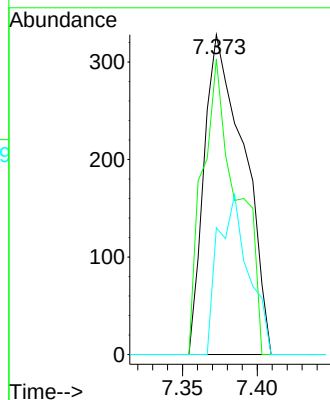
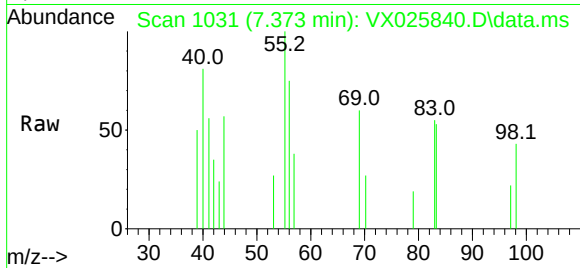




#39
Methylcyclohexane
Concen: 0.223 ug/l
RT: 7.373 min Scan# 1033
Delta R.T. -0.012 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

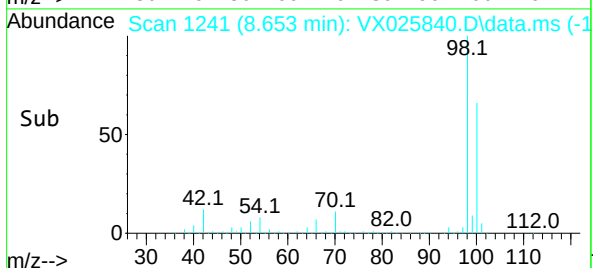
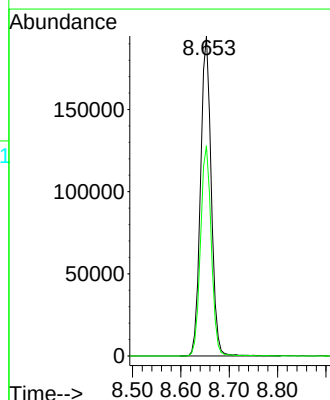
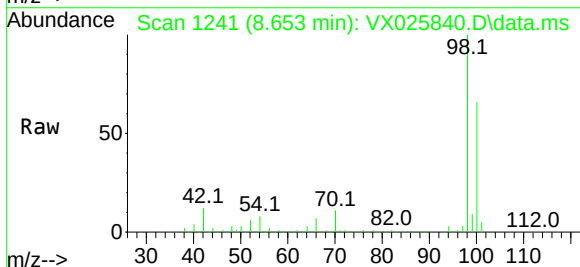
Instrument :
MSVOA_X
ClientSampleId :
C2

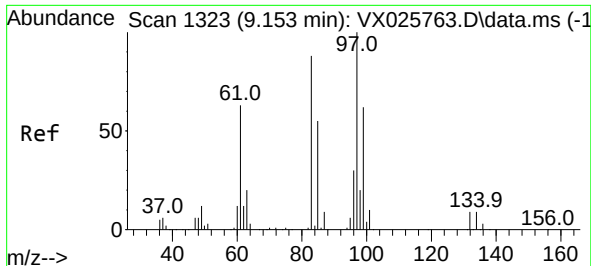
Tgt Ion: 83 Resp: 608
Ion Ratio Lower Upper
83 100
55 92.4 57.8 86.8#
98 39.6 40.5 60.7#



#50
Toluene-d8
Concen: 45.583 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion: 98 Resp: 298314
Ion Ratio Lower Upper
98 100
100 65.9 52.6 78.8



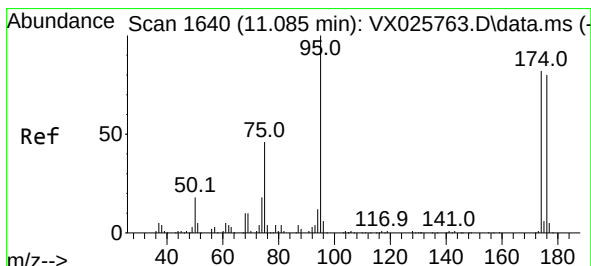
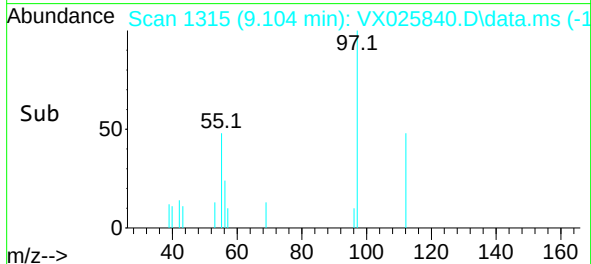
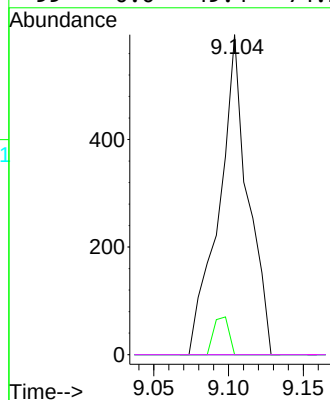
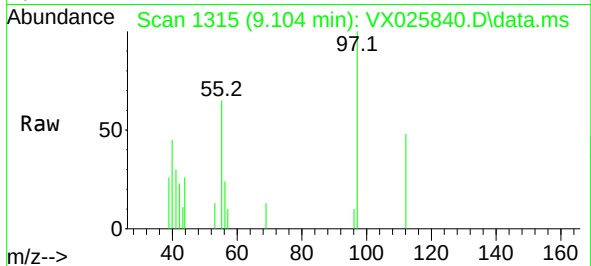


#55
 1,1,2-Trichloroethane
 Concen: 0.403 ug/l
 RT: 9.104 min Scan# 11
 Delta R.T. -0.049 min
 Lab File: VX025840.D
 Acq: 16 Dec 2021 02:25

Instrument :
 MSVOA_X
 ClientSampleId :
 C2

Tgt Ion: 97 Resp: 801

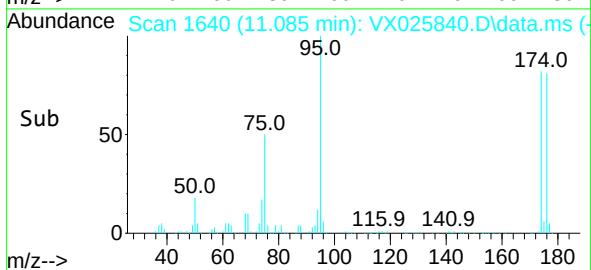
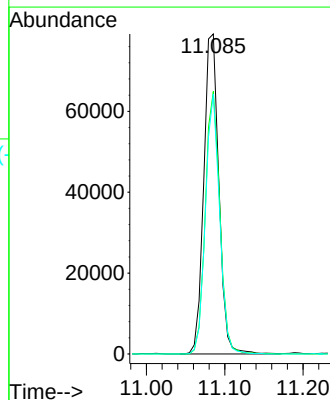
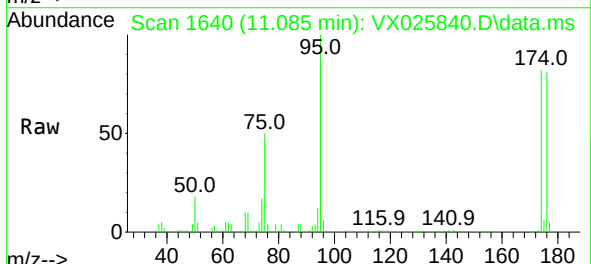
Ion	Ratio	Lower	Upper
97	100		
83	0.0	70.5	105.7#
85	0.0	43.8	65.6#
99	0.0	49.4	74.2#

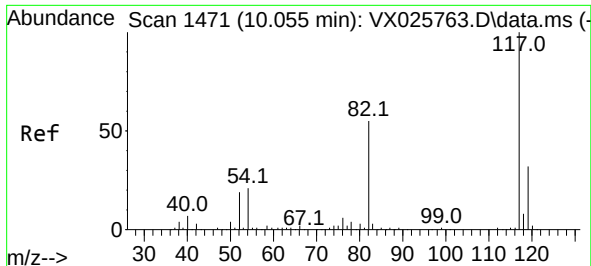


#62
 4-Bromofluorobenzene
 Concen: 42.545 ug/l
 RT: 11.085 min Scan# 1640
 Delta R.T. -0.000 min
 Lab File: VX025840.D
 Acq: 16 Dec 2021 02:25

Tgt Ion: 95 Resp: 105767

Ion	Ratio	Lower	Upper
95	100		
174	78.9	0.0	157.4
176	76.2	0.0	154.6

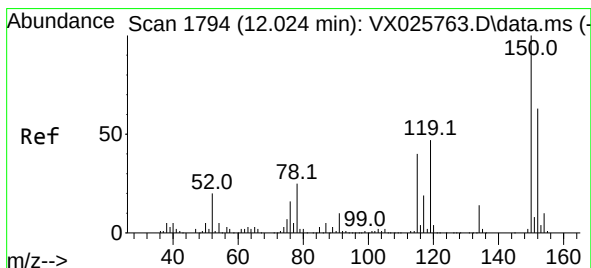
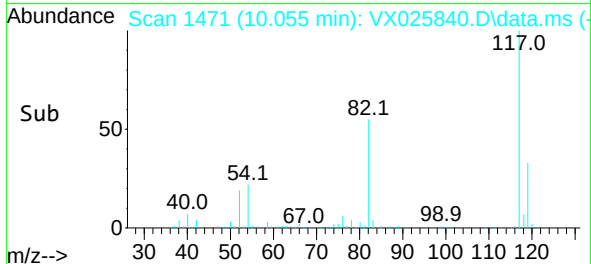
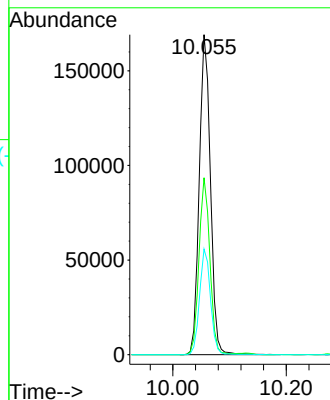
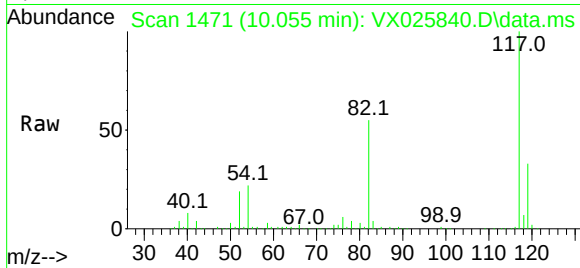




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

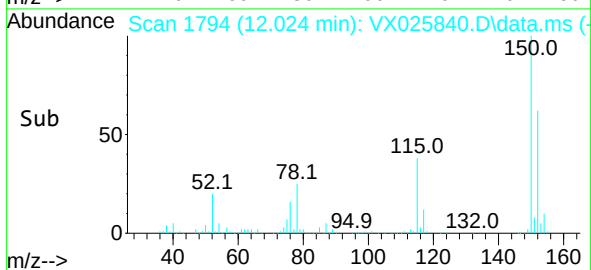
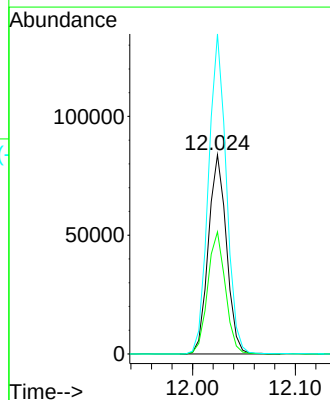
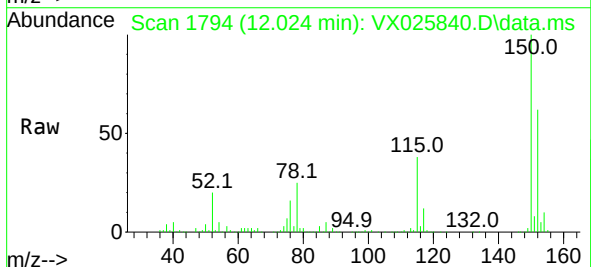
Instrument :
MSVOA_X
ClientSampleId :
C2

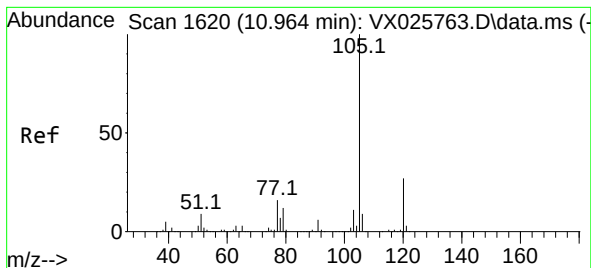
Tgt Ion:117 Resp: 230438
Ion Ratio Lower Upper
117 100
82 55.3 43.8 65.6
119 33.0 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion:152 Resp: 102841
Ion Ratio Lower Upper
152 100
115 60.0 41.3 123.9
150 158.2 0.0 351.8





#73

Isopropylbenzene

Concen: 3.639 ug/l

RT: 10.963 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX025840.D

Acq: 16 Dec 2021 02:25

Instrument :

MSVOA_X

ClientSampleId :

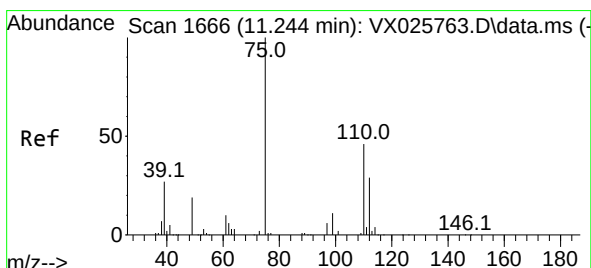
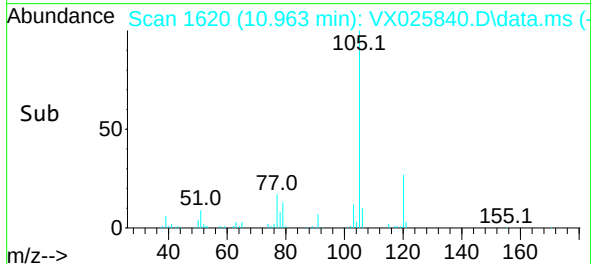
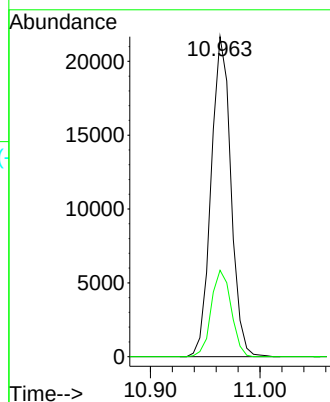
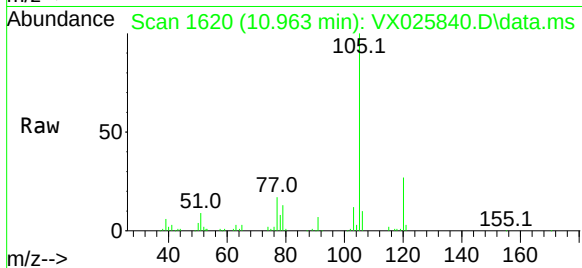
C2

Tgt Ion:105 Resp: 27163

Ion Ratio Lower Upper

105 100

120 27.2 13.6 40.7



#76

1,2,3-Trichloropropane

Concen: 23.123 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.165 min

Lab File: VX025840.D

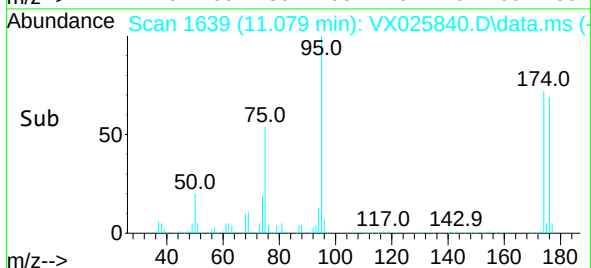
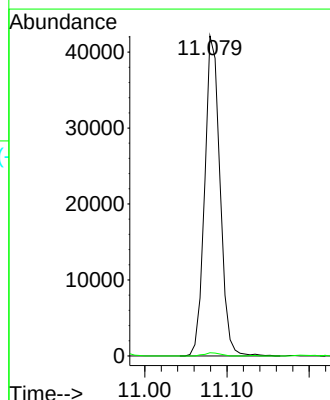
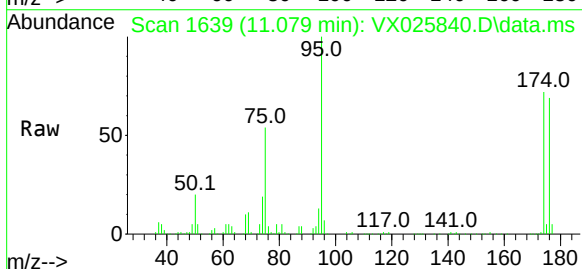
Acq: 16 Dec 2021 02:25

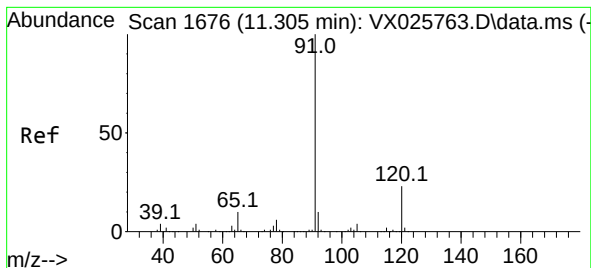
Tgt Ion: 75 Resp: 54484

Ion Ratio Lower Upper

75 100

77 1.0 19.0 57.0#





#78

n-propylbenzene

Concen: 1.834 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX025840.D

Acq: 16 Dec 2021 02:25

Instrument :

MSVOA_X

ClientSampleId :

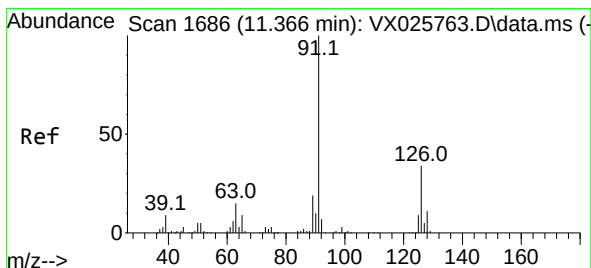
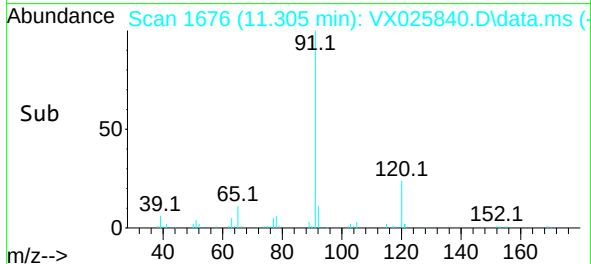
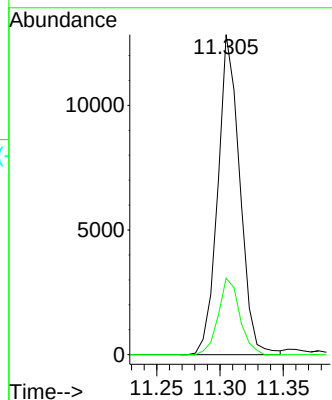
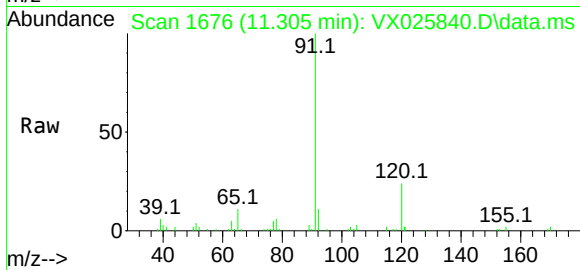
C2

Tgt Ion: 91 Resp: 15482

Ion Ratio Lower Upper

91 100

120 23.3 12.0 36.1



#79

2-Chlorotoluene

Concen: 2.884 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.061 min

Lab File: VX025840.D

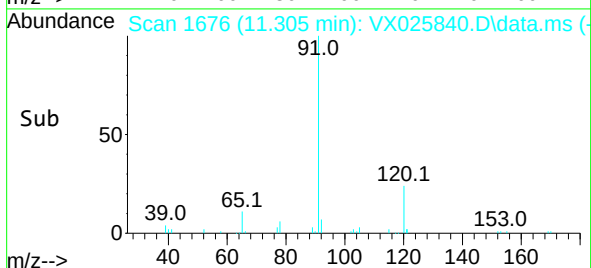
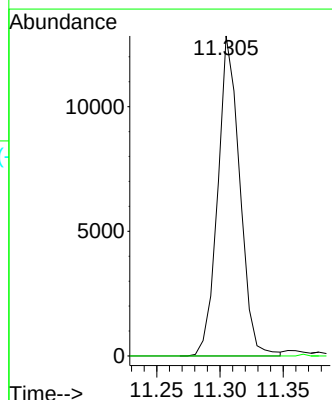
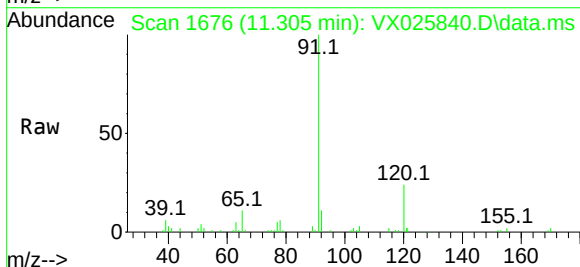
Acq: 16 Dec 2021 02:25

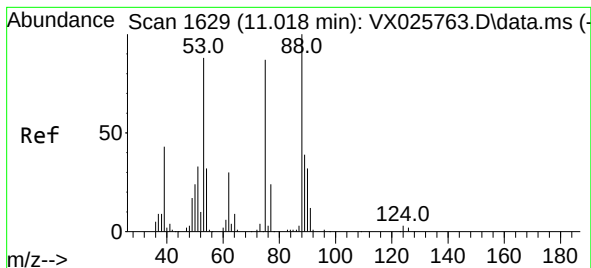
Tgt Ion: 91 Resp: 15482

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.3#

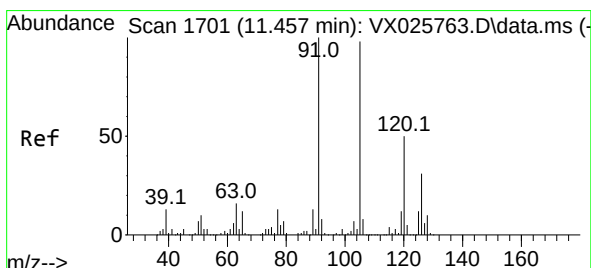
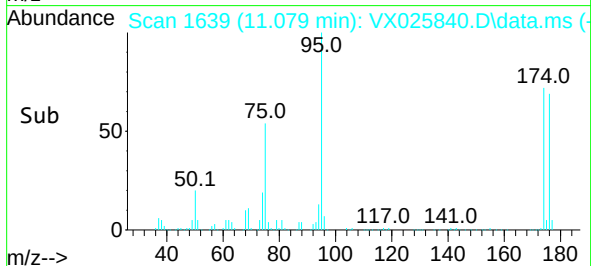
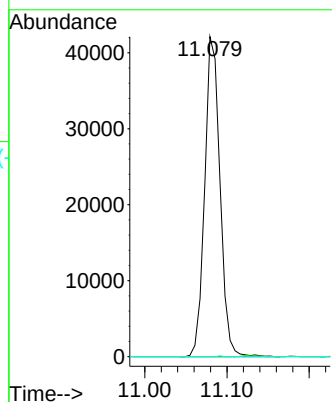
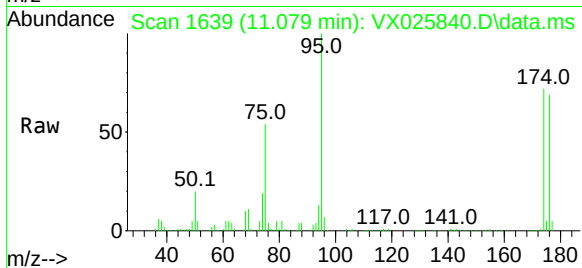




#81
trans-1,4-Dichloro-2-butene
Concen: 71.688 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

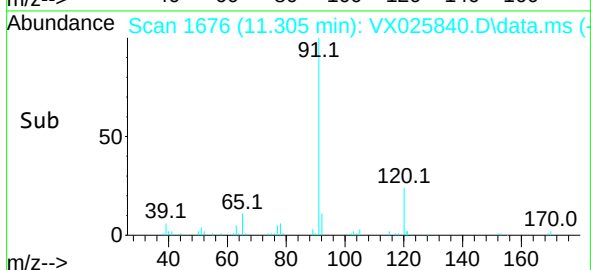
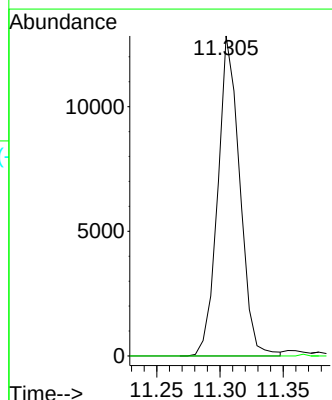
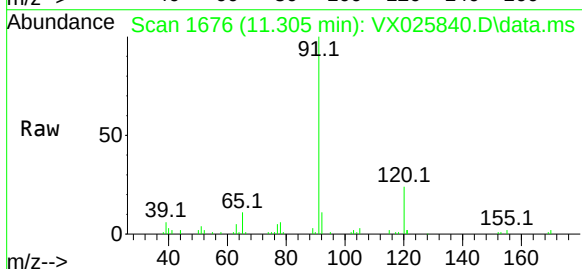
Instrument :
MSVOA_X
ClientSampleId :
C2

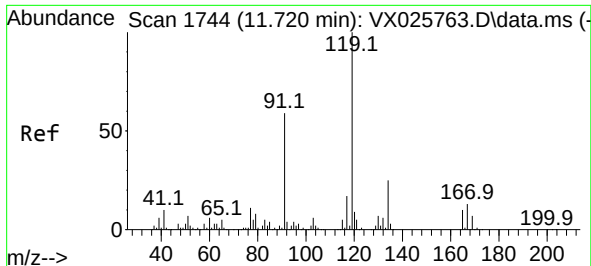
Tgt Ion: 75 Resp: 54484
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.1 38.3 57.5#



#82
4-Chlorotoluene
Concen: 2.575 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.152 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion: 91 Resp: 15482
Ion Ratio Lower Upper
91 100
126 0.0 15.6 46.7#

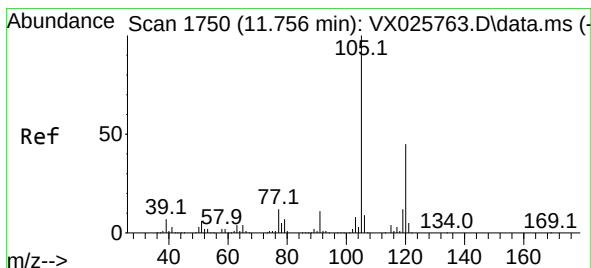
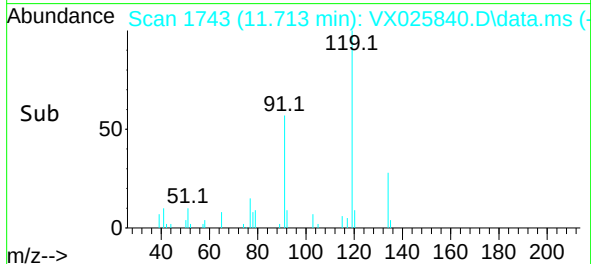
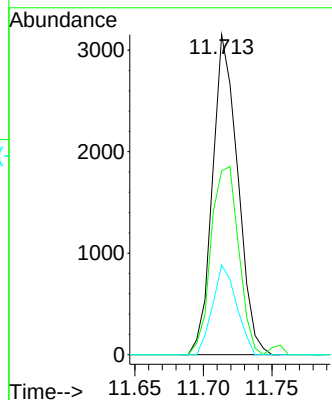
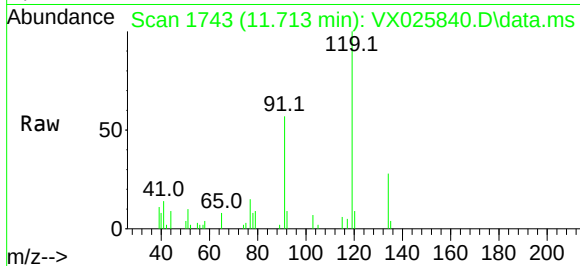




#83
 tert-Butylbenzene
 Concen: 0.666 ug/l
 RT: 11.713 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VX025840.D
 Acq: 16 Dec 2021 02:25

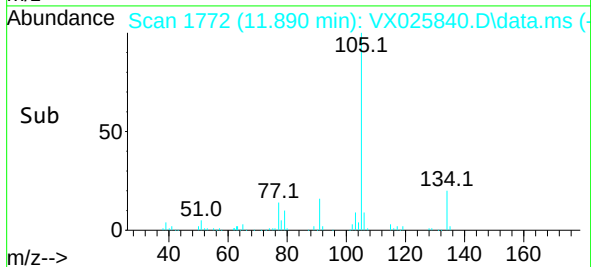
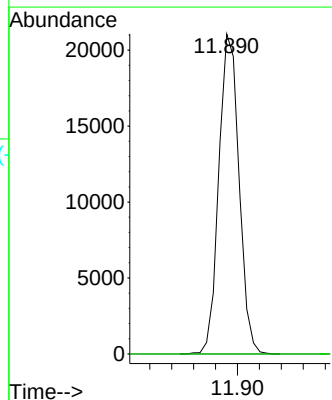
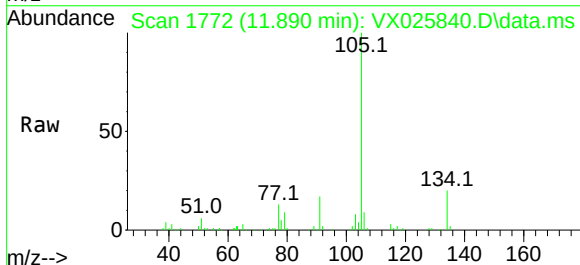
Instrument :
 MSVOA_X
 ClientSampleId :
 C2

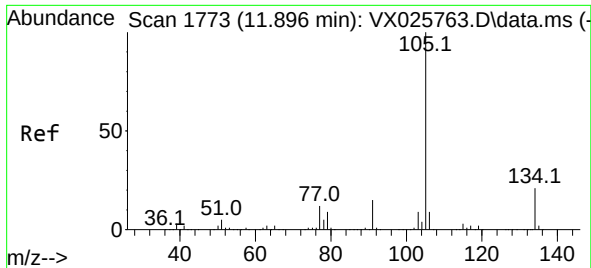
Tgt Ion:119	Resp:	4040
Ion	Ratio	Lower Upper
119	100	
91	64.1	28.7 86.1
134	26.5	11.9 35.9



#84
 1,2,4-Trimethylbenzene
 Concen: 4.362 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.134 min
 Lab File: VX025840.D
 Acq: 16 Dec 2021 02:25

Tgt Ion:105	Resp:	26974
Ion	Ratio	Lower Upper
105	100	
120	0.0	22.9 68.7#

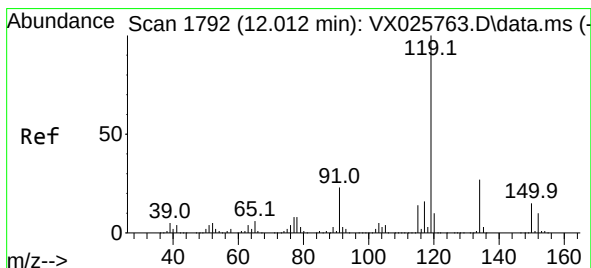
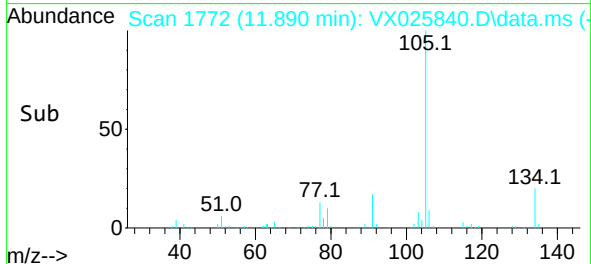
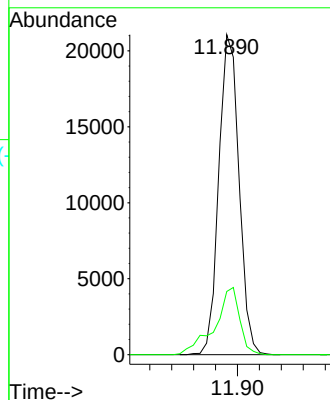
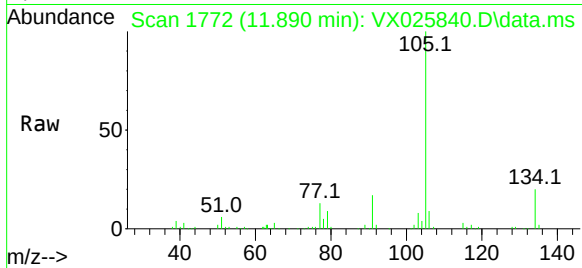




#85
 sec-Butylbenzene
 Concen: 3.699 ug/l
 RT: 11.890 min Scan# 1189
 Delta R.T. -0.006 min
 Lab File: VX025840.D
 Acq: 16 Dec 2021 02:25

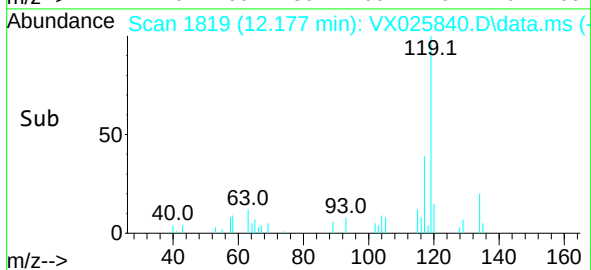
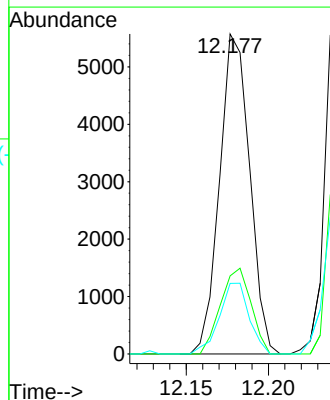
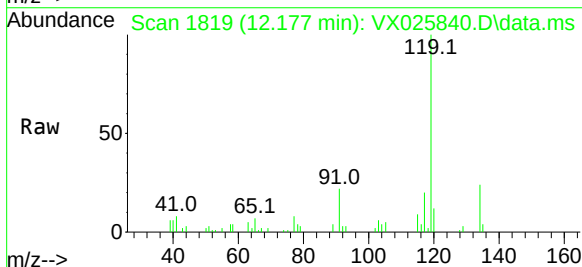
Instrument :
 MSVOA_X
 ClientSampleId :
 C2

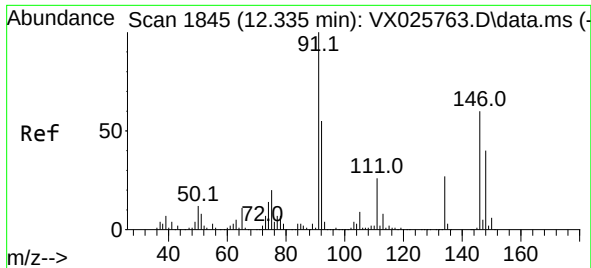
Tgt Ion:105 Resp: 26974
 Ion Ratio Lower Upper
 105 100
 134 25.9 10.4 31.1



#86
 p-Isopropyltoluene
 Concen: 1.160 ug/l
 RT: 12.177 min Scan# 1819
 Delta R.T. 0.165 min
 Lab File: VX025840.D
 Acq: 16 Dec 2021 02:25

Tgt Ion:119 Resp: 7106
 Ion Ratio Lower Upper
 119 100
 134 27.1 13.2 39.6
 91 22.0 11.9 35.9

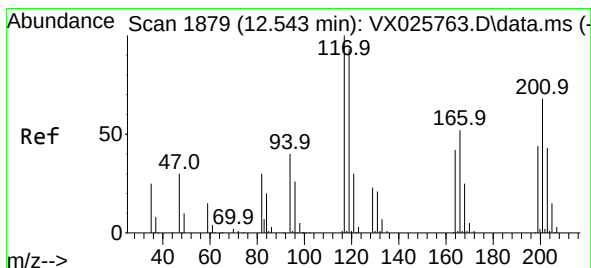
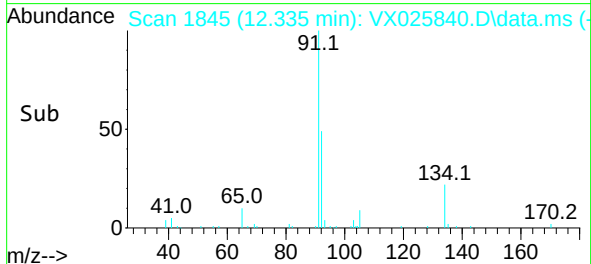
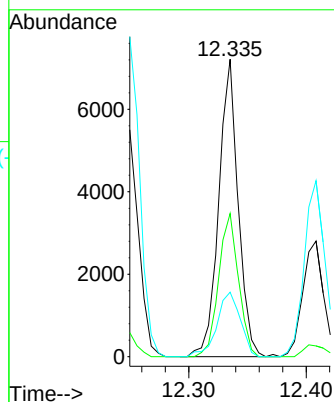
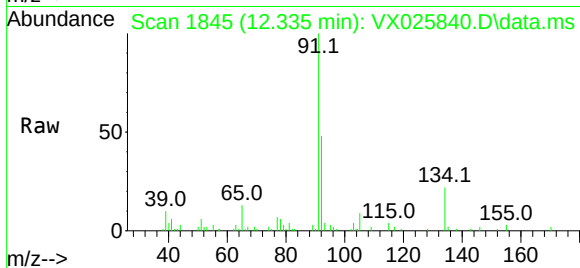




#89
n-Butylbenzene
Concen: 1.625 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

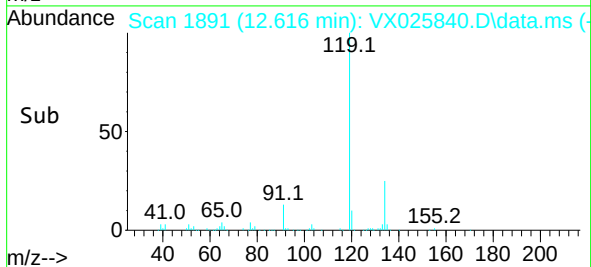
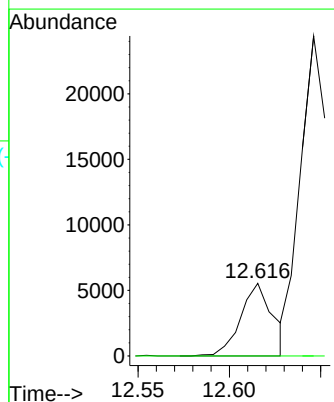
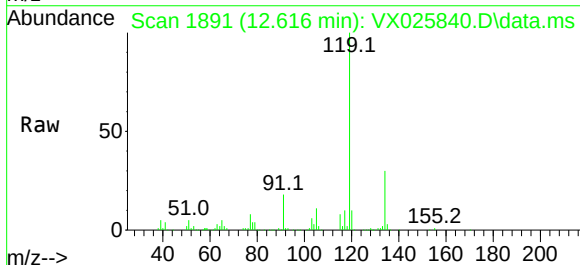
Instrument :
MSVOA_X
ClientSampleId :
C2

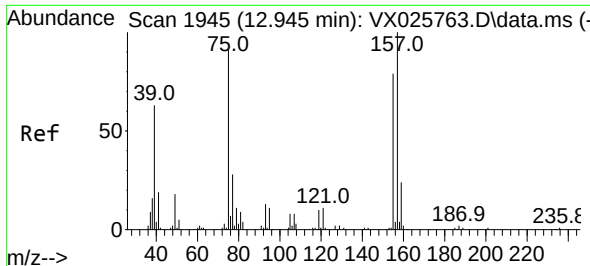
Tgt Ion: 91 Resp: 8302
Ion Ratio Lower Upper
91 100
92 49.2 27.3 81.8
134 26.1 13.5 40.4



#90
Hexachloroethane
Concen: 5.611 ug/l
RT: 12.616 min Scan# 1891
Delta R.T. 0.073 min
Lab File: VX025840.D
Acq: 16 Dec 2021 02:25

Tgt Ion: 117 Resp: 6754
Ion Ratio Lower Upper
117 100
201 0.0 35.4 106.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.170 ug/l

RT: 12.920 min Scan# 1945

Delta R.T. -0.024 min

Lab File: VX025840.D

Acq: 16 Dec 2021 02:25

Instrument :

MSVOA_X

ClientSampleId :

C2

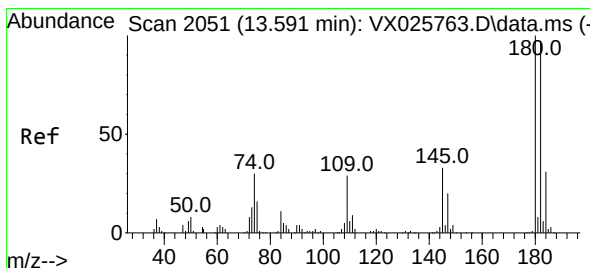
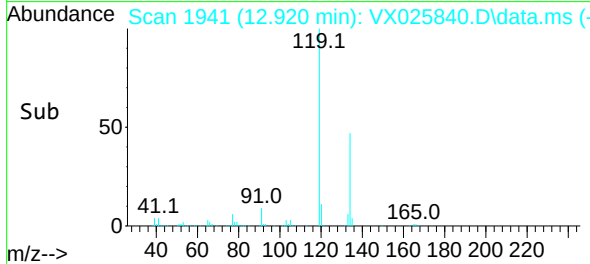
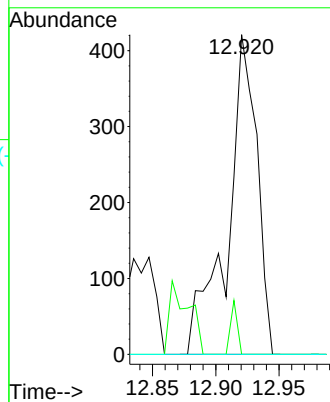
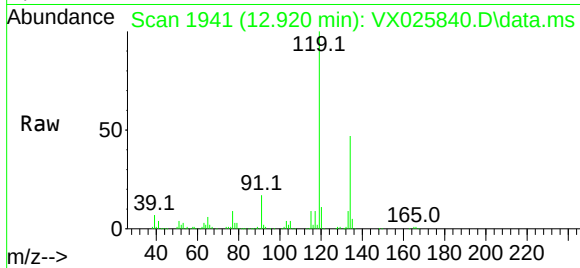
Tgt Ion: 75 Resp: 684

Ion Ratio Lower Upper

75 100

155 0.0 44.0 131.8#

157 0.0 55.5 166.5#



#93

1,2,4-Trichlorobenzene

Concen: 3.484 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.006 min

Lab File: VX025840.D

Acq: 16 Dec 2021 02:25

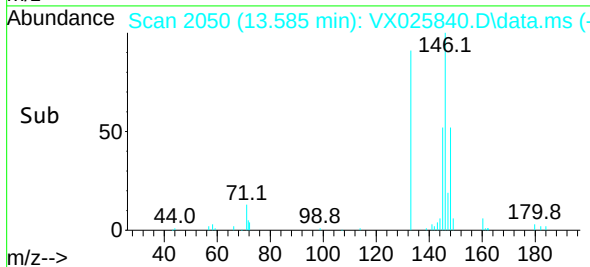
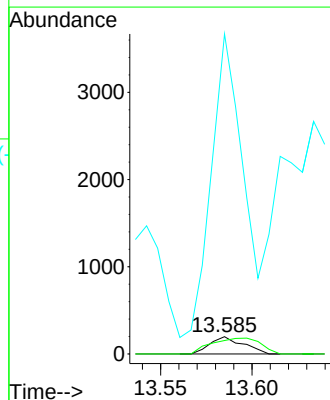
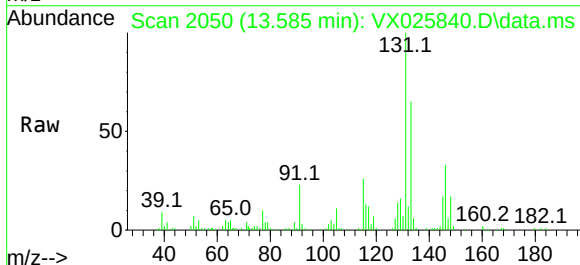
Tgt Ion: 180 Resp: 251

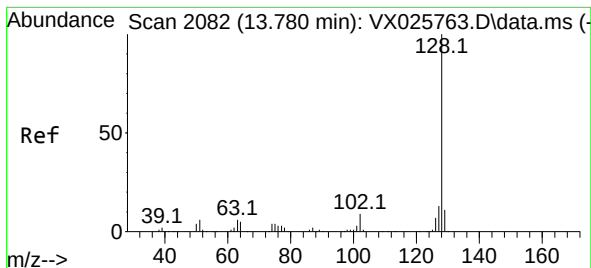
Ion Ratio Lower Upper

180 100

182 135.1 47.2 141.6

145 1674.9 16.3 48.9#





#95

Naphthalene

Concen: 2.529 ug/l

RT: 13.798 min Scan# 2085

Delta R.T. 0.018 min

Lab File: VX025840.D

Acq: 16 Dec 2021 02:25

Instrument :

MSVOA_X

ClientSampleId :

C2

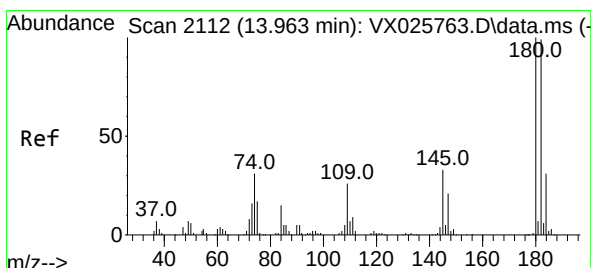
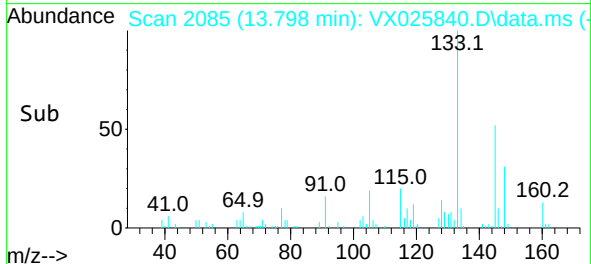
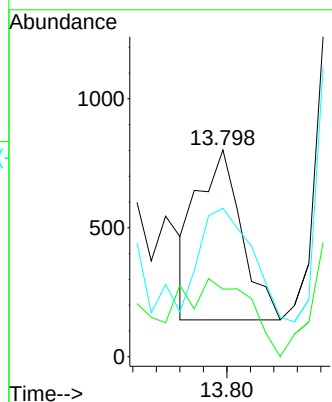
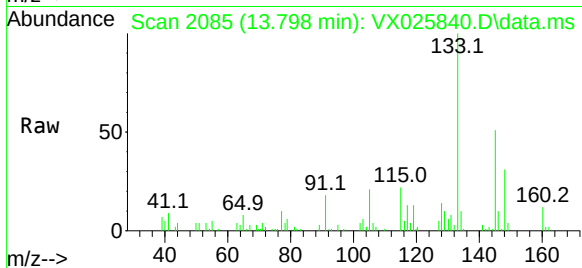
Tgt Ion:128 Resp: 865

Ion Ratio Lower Upper

128 100

127 68.0 10.3 15.5#

129 79.4 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 3.079 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.006 min

Lab File: VX025840.D

Acq: 16 Dec 2021 02:25

Tgt Ion:180 Resp: 186

Ion Ratio Lower Upper

180 100

182 71.5 47.5 142.6

145 3059.1 16.7 50.1#

