

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110724\
 Data File : VY020216.D
 Acq On : 07 Nov 2024 18:51
 Operator : SY/MD
 Sample : P4734-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

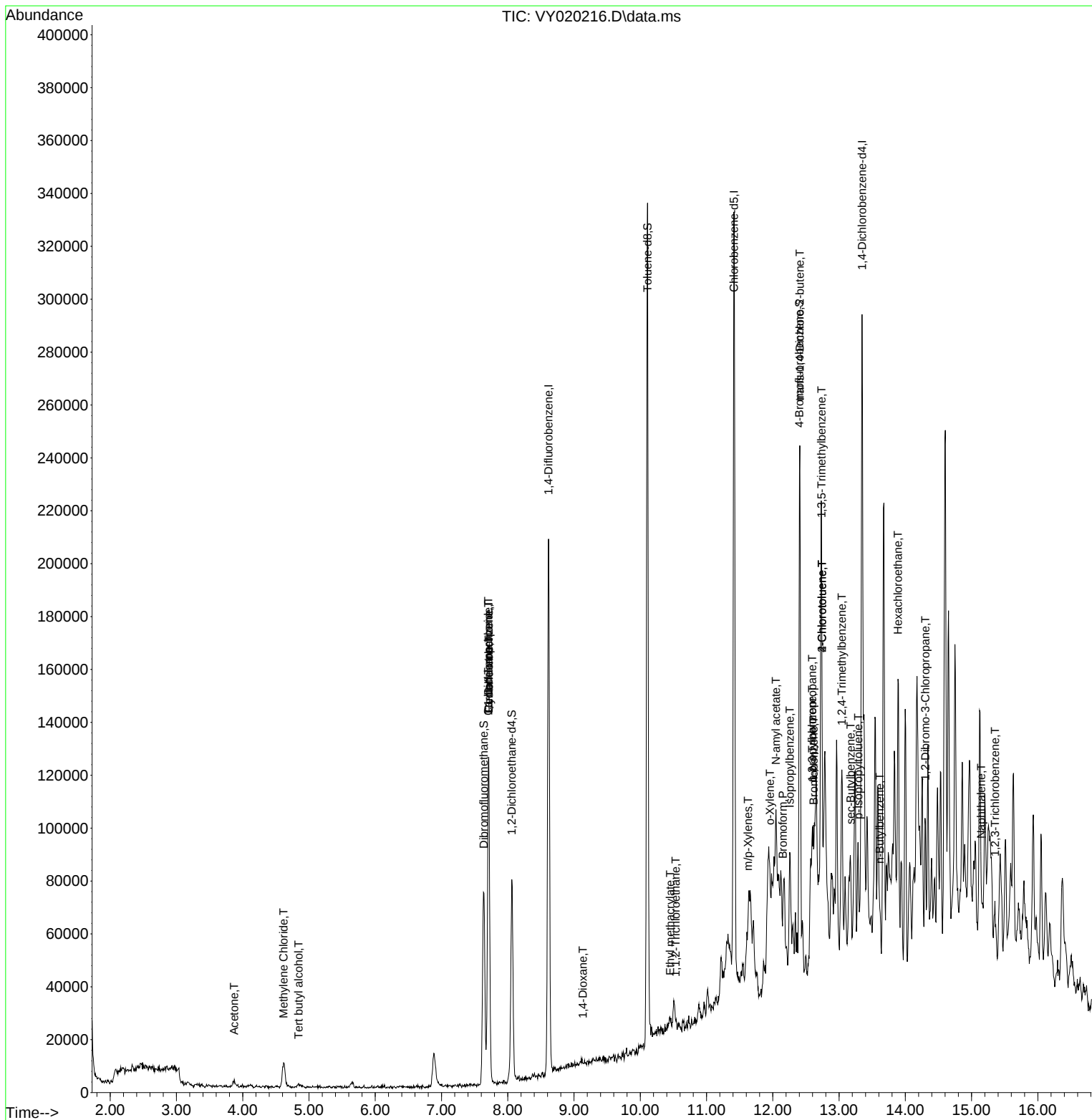
Quant Time: Nov 08 00:32:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 15:23:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	87698	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	162959	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	141956	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	50872	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	57057	52.129	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 104.260%	
35) Dibromofluoromethane	7.640	113	53836	51.961	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.920%	
50) Toluene-d8	10.109	98	194263	47.104	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.200%	
62) 4-Bromofluorobenzene	12.401	95	59138	44.147	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 88.300%	
Target Compounds						
						Qvalue
11) Tert butyl alcohol	4.842	59	1276	16.207	ug/l	# 88
16) Acetone	3.872	43	4295	16.874	ug/l	# 79
20) Methylene Chloride	4.616	84	5952	5.205	ug/l	# 85
31) Cyclohexane	7.713	56	2830	1.425	ug/l	# 42
36) 1,1-Dichloropropene	7.707	75	8187	5.115	ug/l	# 43
38) Carbon Tetrachloride	7.707	117	9927	6.168	ug/l	# 17
49) 1,4-Dioxane	9.134	88	60	9.623	ug/l	# 20
55) 1,1,2-Trichloroethane	10.536	97	1228	1.631	ug/l	# 20
56) Ethyl methacrylate	10.451	69	1539	1.425	ug/l	# 10
68) m/p-Xylenes	11.627	106	2230	1.078	ug/l	# 54
69) o-Xylene	11.956	106	4764	2.432	ug/l	87
71) Bromoform	12.151	173	502	1.013	ug/l	# 90
73) Isopropylbenzene	12.255	105	4350	1.070	ug/l	98
74) N-amyl acetate	12.048	43	6122	6.026	ug/l	# 54
76) 1,2,3-Trichloropropane	12.596	75	1581	3.315	ug/l	# 100
77) Bromobenzene	12.615	156	72285	87.950	ug/l	# 1
78) n-propylbenzene	12.596	91	7113	1.406	ug/l	91
79) 2-Chlorotoluene	12.743	91	3463	1.233	ug/l	71
80) 1,3,5-Trimethylbenzene	12.737	105	21949	6.727	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.408	75	33381	150.567	ug/l	# 16
82) 4-Chlorotoluene	12.743	91	3109	1.086	ug/l	75
84) 1,2,4-Trimethylbenzene	13.042	105	29899	9.252	ug/l	99
85) sec-Butylbenzene	13.176	105	7806	1.782	ug/l	91
86) p-Isopropyltoluene	13.291	119	5633	1.603	ug/l	# 80
89) n-Butylbenzene	13.615	91	8752	2.484	ug/l	# 77
90) Hexachloroethane	13.889	117	4132	5.945	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.304	75	187	1.735	ug/l	74
95) Naphthalene	15.145	128	5144	3.530	ug/l	# 71
96) 1,2,3-Trichlorobenzene	15.352	180	751	1.135	ug/l	# 1

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

Quant Time: Nov 08 00:32:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103024S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 15:23:13 2024
Response via : Initial Calibration

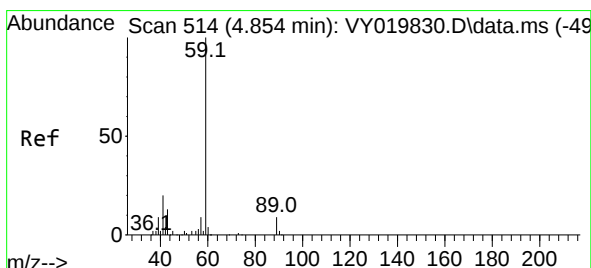
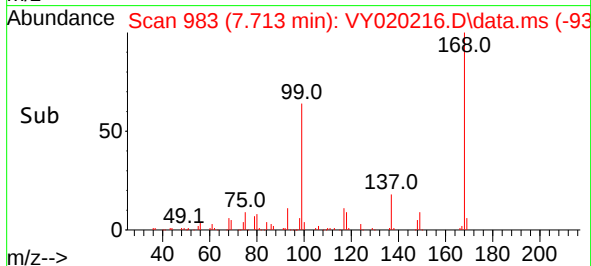
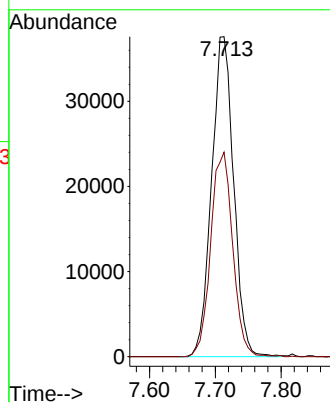
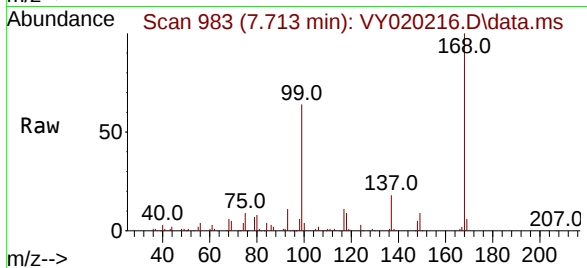




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

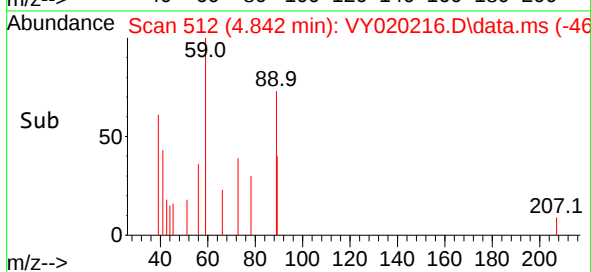
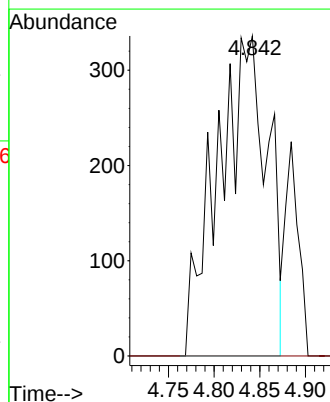
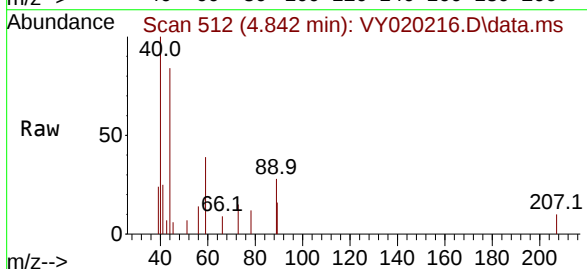
Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion:168 Resp: 87698
Ion Ratio Lower Upper
168 100
99 63.9 39.1 58.7#



#11
Tert butyl alcohol
Concen: 16.207 ug/l
RT: 4.842 min Scan# 512
Delta R.T. -0.018 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

Tgt Ion: 59 Resp: 1276
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#

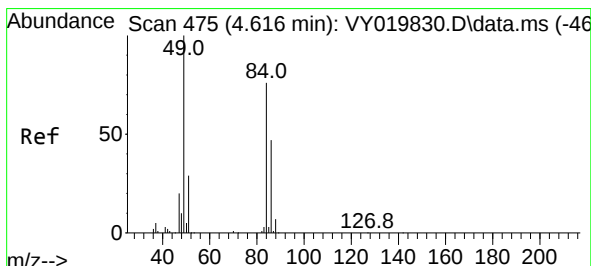
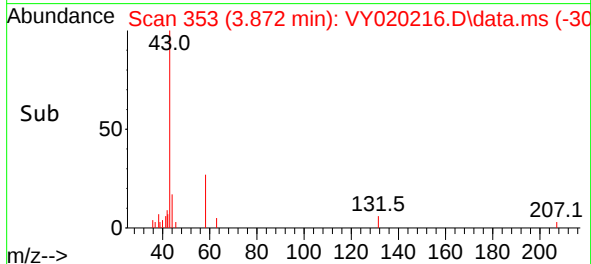
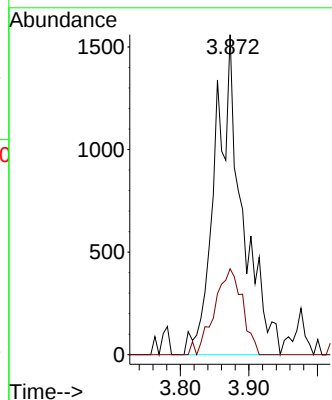
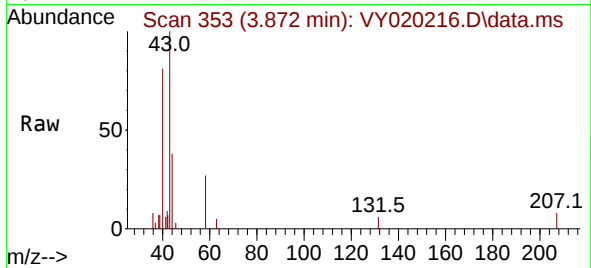




#16
Acetone
Concen: 16.874 ug/l
RT: 3.872 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

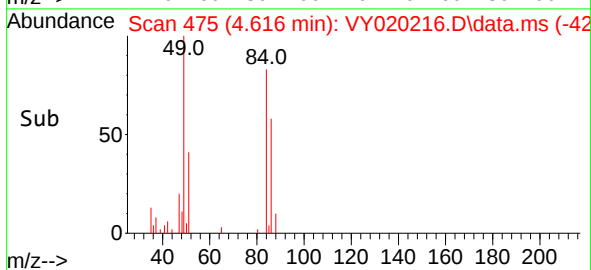
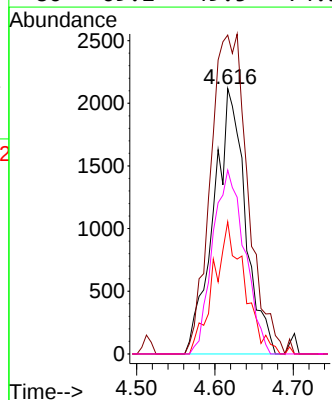
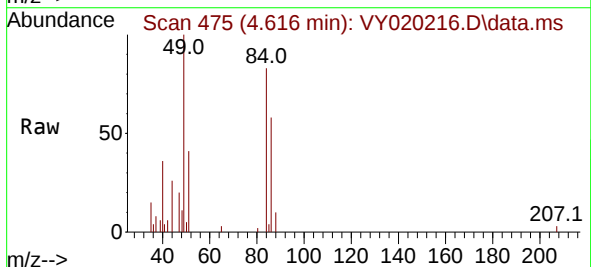
Instrument :
MSVOA_Y
ClientSampleId :

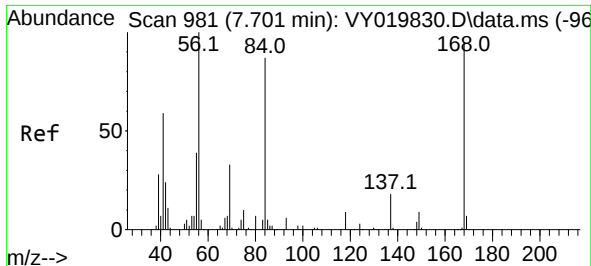
Tgt Ion: 43 Resp: 4295
Ion Ratio Lower Upper
43 100
58 26.9 31.7 47.5#



#20
Methylene Chloride
Concen: 5.205 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

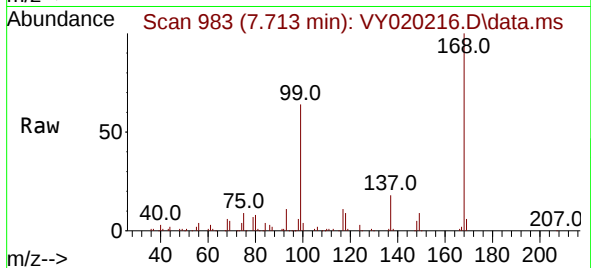
Tgt Ion: 84 Resp: 5952
Ion Ratio Lower Upper
84 100
49 120.1 84.4 126.6
51 49.8 26.0 39.0#
86 69.2 49.5 74.3



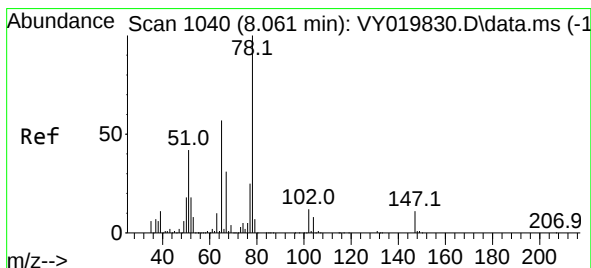
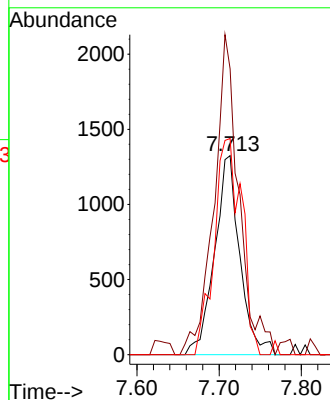
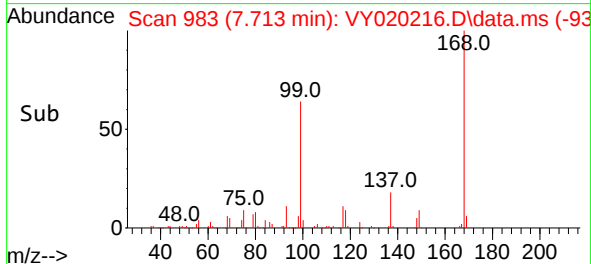


#31
Cyclohexane
Concen: 1.425 ug/l
RT: 7.713 min Scan# 981
Delta R.T. 0.012 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

Instrument :
MSVOA_Y
ClientSampleId :

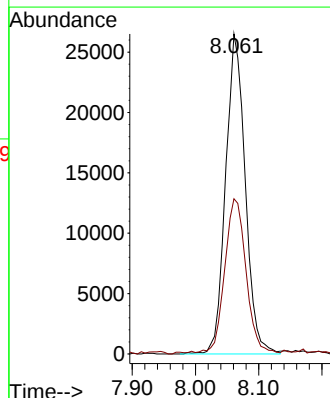
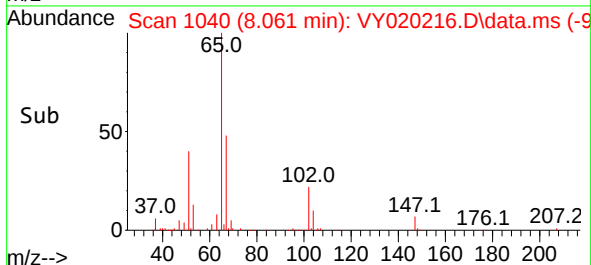
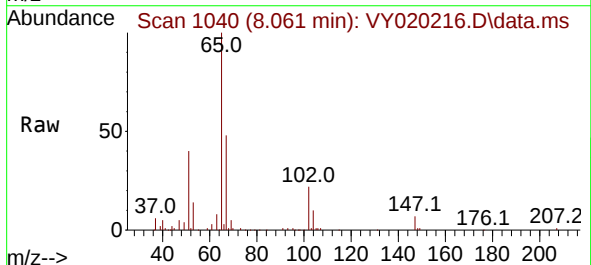


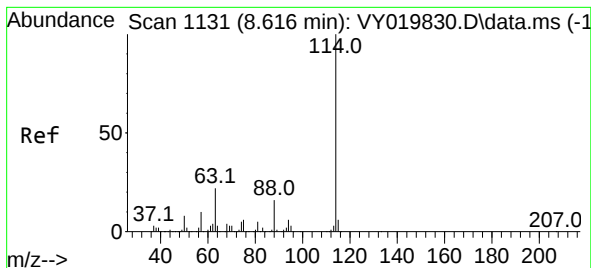
Tgt Ion: 56 Resp: 2830
Ion Ratio Lower Upper
56 100
69 143.5 28.7 43.1#
84 108.6 77.7 116.5



#33
1,2-Dichloroethane-d4
Concen: 52.129 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

Tgt Ion: 65 Resp: 57057
Ion Ratio Lower Upper
65 100
67 52.2 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

ClientSampleId :

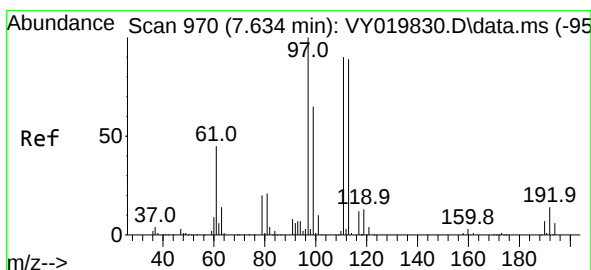
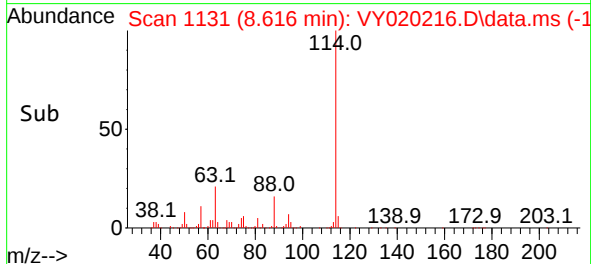
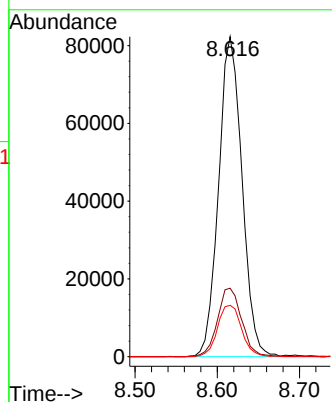
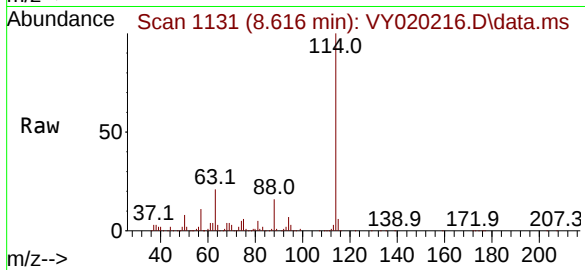
Tgt Ion:114 Resp: 162959

Ion Ratio Lower Upper

114 100

63 21.4 0.0 35.0

88 16.0 0.0 27.2



#35

Dibromofluoromethane

Concen: 51.961 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

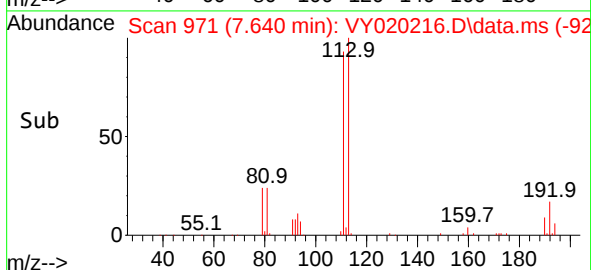
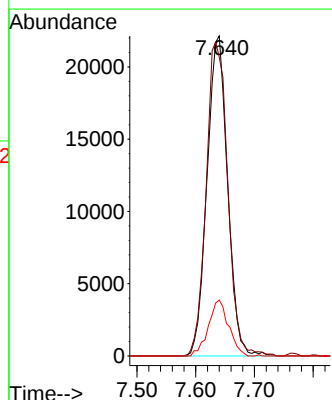
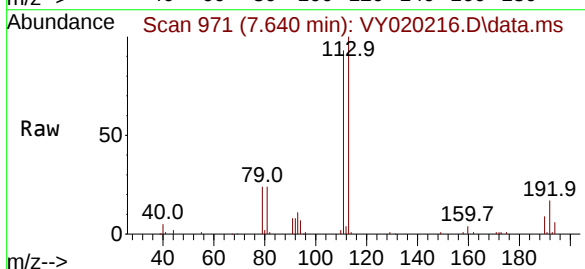
Tgt Ion:113 Resp: 53836

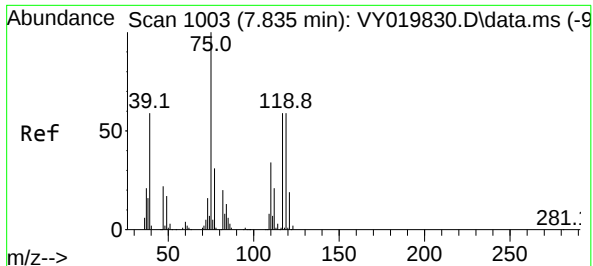
Ion Ratio Lower Upper

113 100

111 103.0 82.2 123.4

192 17.2 15.9 23.9





#36

1,1-Dichloropropene

Concen: 5.115 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

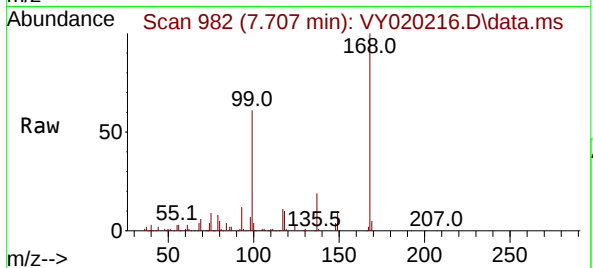
Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

ClientSampleId :



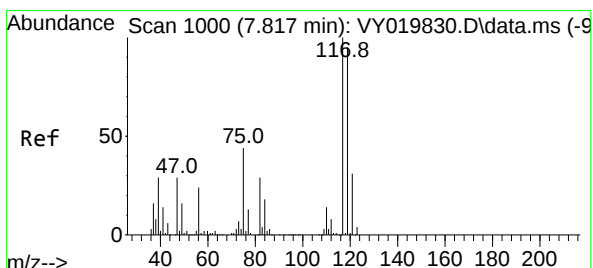
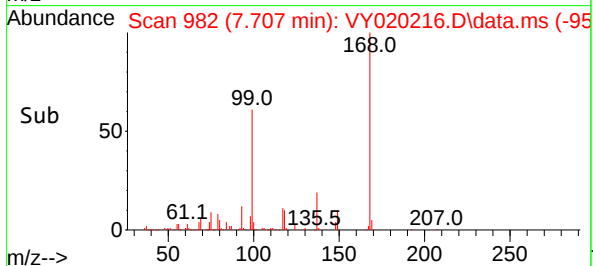
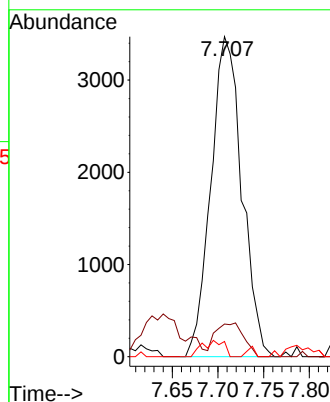
Tgt Ion: 75 Resp: 8187

Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 3.6 25.3 37.9#



#38

Carbon Tetrachloride

Concen: 6.168 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

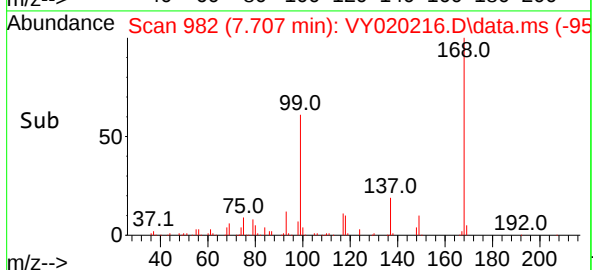
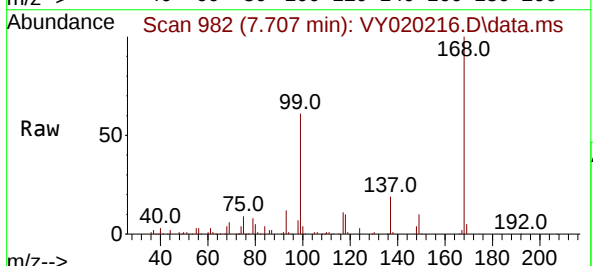
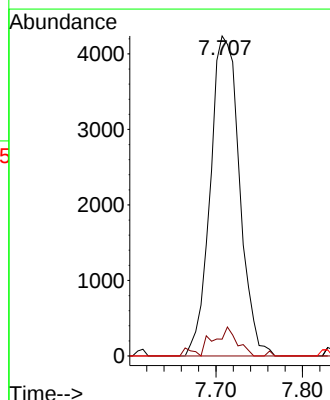
Tgt Ion: 117 Resp: 9927

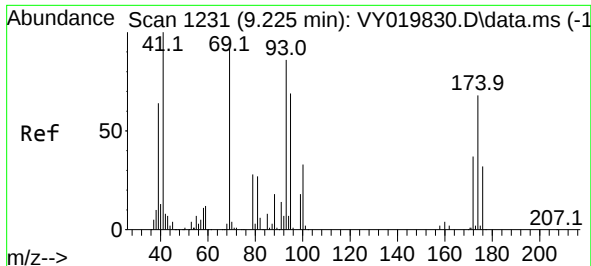
Ion Ratio Lower Upper

117 100

119 5.3 75.8 113.6#

121 0.0 24.0 36.0#





#49

1,4-Dioxane

Concen: 9.623 ug/l

RT: 9.134 min Scan# 11

Delta R.T. -0.097 min

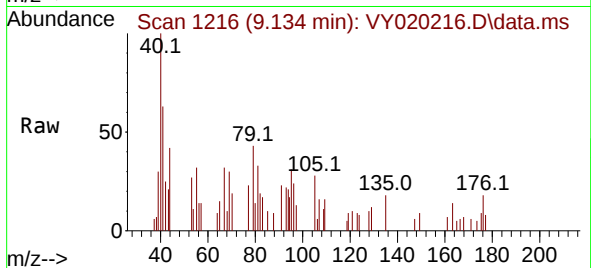
Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

ClientSampleId :



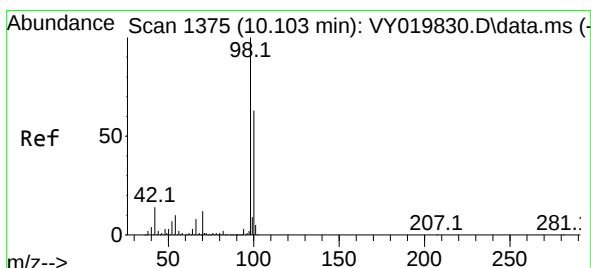
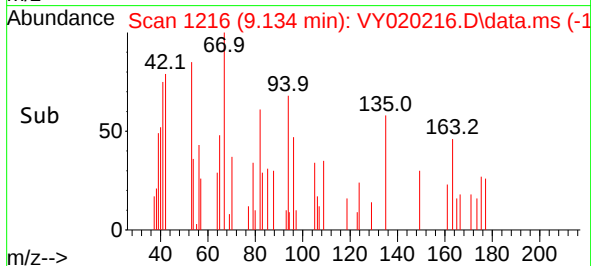
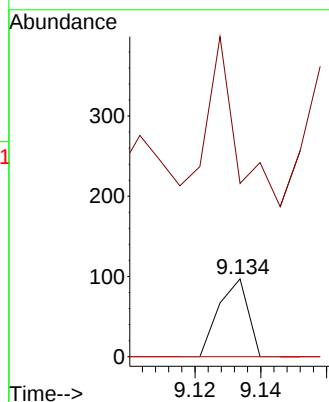
Tgt Ion: 88 Resp: 60

Ion Ratio Lower Upper

88 100

43 358.3 0.0 0.0#

58 0.0 49.3 73.9#



#50

Toluene-d8

Concen: 47.104 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY020216.D

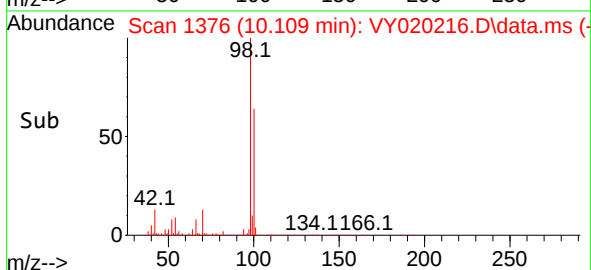
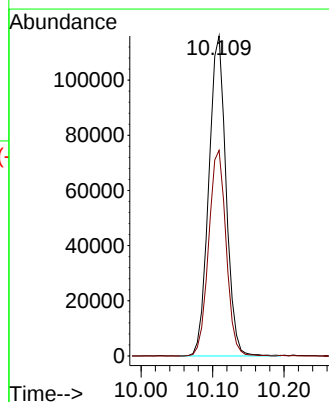
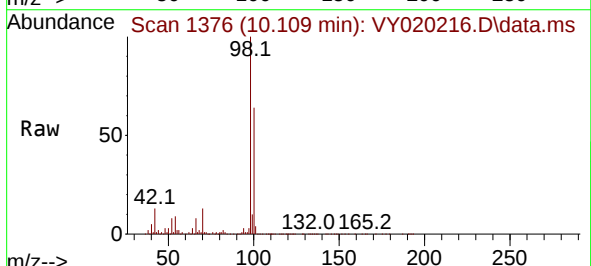
Acq: 07 Nov 2024 18:51

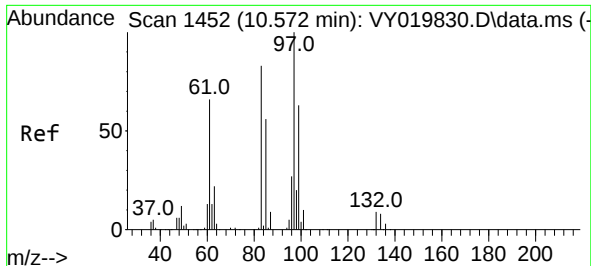
Tgt Ion: 98 Resp: 194263

Ion Ratio Lower Upper

98 100

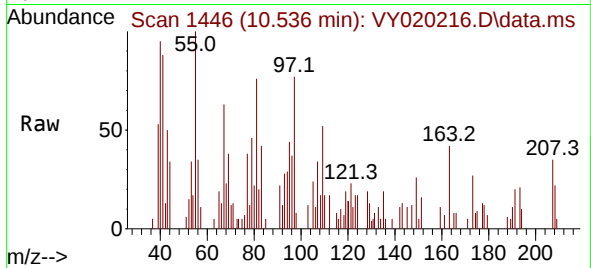
100 65.1 52.0 78.0



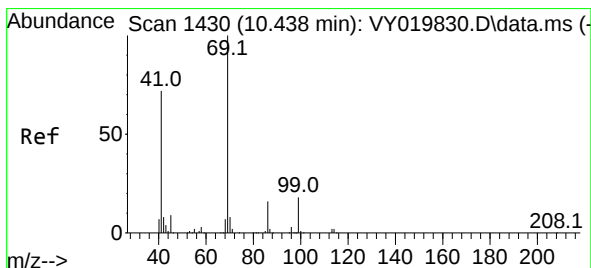
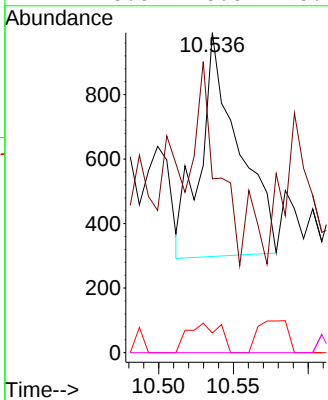
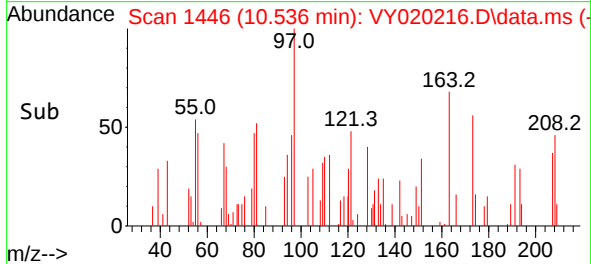


#55
1,1,2-Trichloroethane
Concen: 1.631 ug/l
RT: 10.536 min Scan# 1446
Delta R.T. -0.036 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

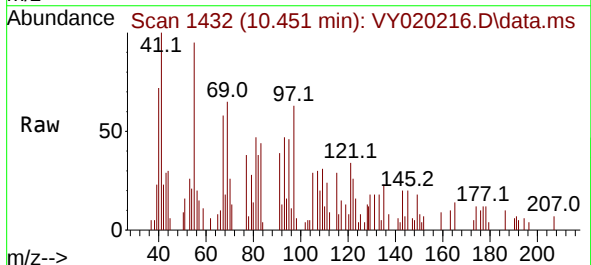
Instrument :
MSVOA_Y
ClientSampleId :



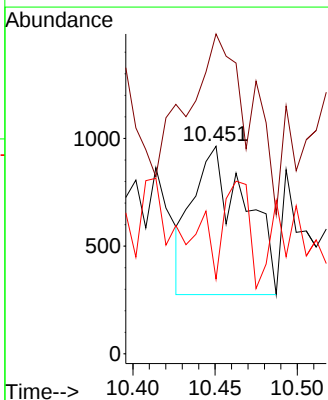
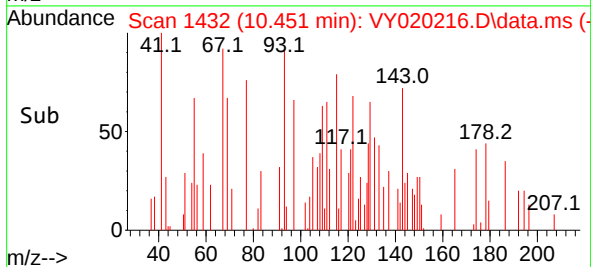
Tgt Ion	Ratio	Lower	Upper
97	100		
83	0.0	67.5	101.3#
85	8.9	42.9	64.3#
99	0.0	46.6	70.0#

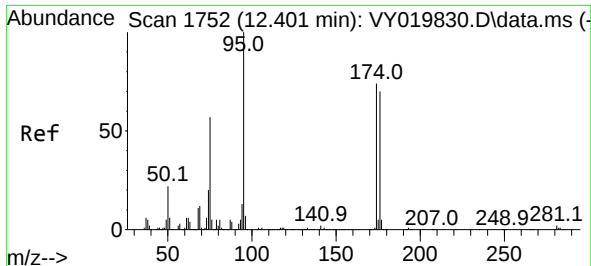


#56
Ethyl methacrylate
Concen: 1.425 ug/l
RT: 10.451 min Scan# 1432
Delta R.T. 0.012 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51



Tgt Ion	Ratio	Lower	Upper
69	100		
41	148.1	42.3	63.5#
39	33.3	22.9	34.3





#62

4-Bromofluorobenzene

Concen: 44.147 ug/l

RT: 12.401 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

ClientSampleId :

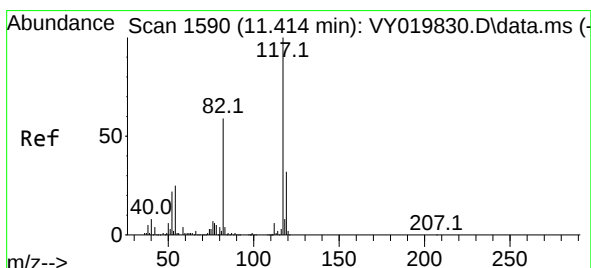
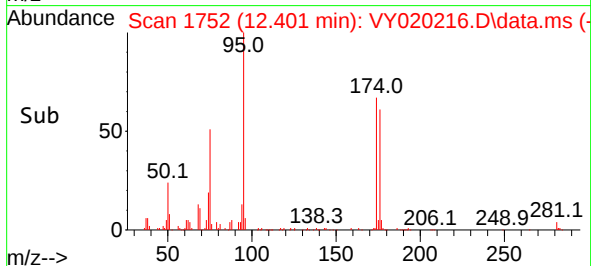
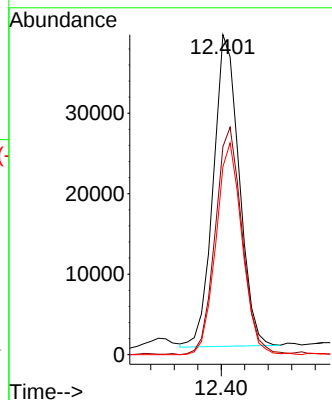
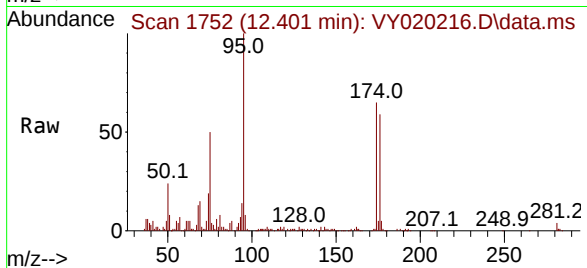
Tgt Ion: 95 Resp: 59138

Ion Ratio Lower Upper

95 100

174 75.4 0.0 175.6

176 69.0 0.0 171.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

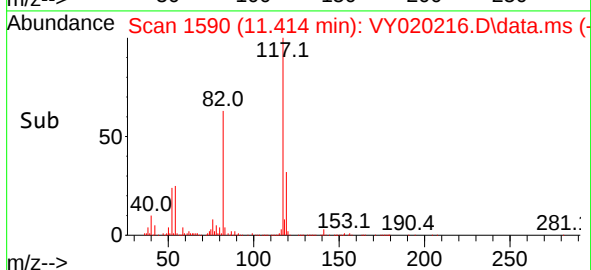
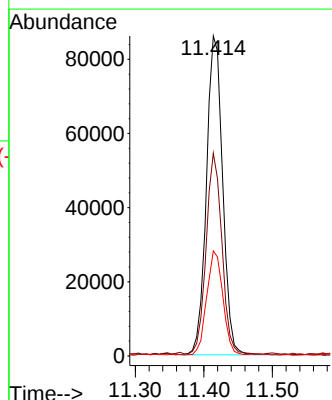
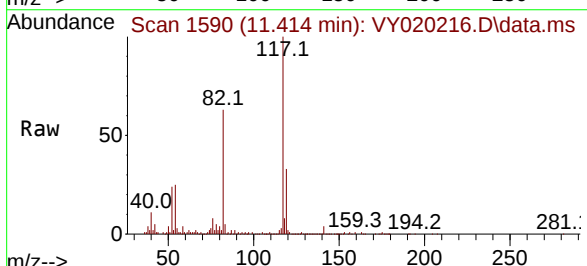
Tgt Ion: 117 Resp: 141956

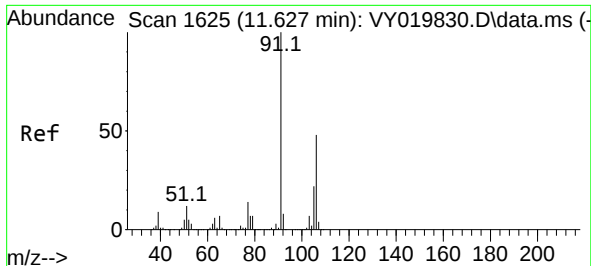
Ion Ratio Lower Upper

117 100

82 63.1 42.4 63.6

119 32.6 25.9 38.9

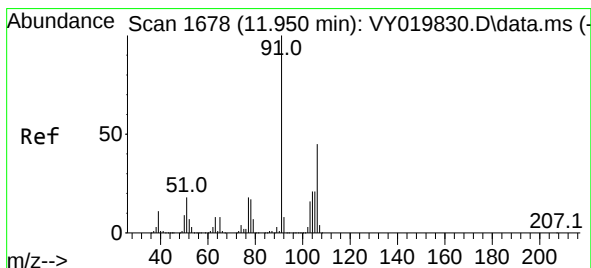
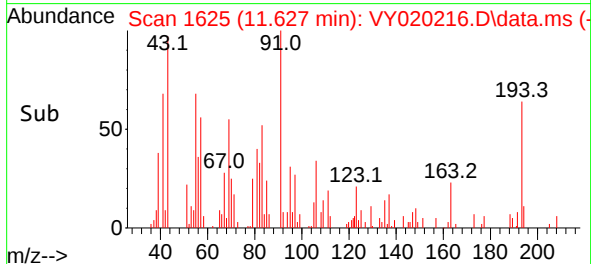
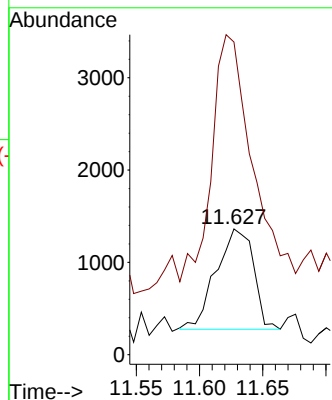
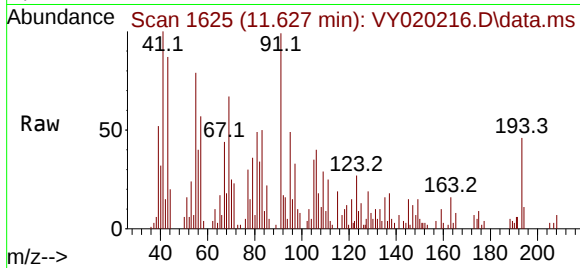




#68
m/p-Xylenes
Concen: 1.078 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.006 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

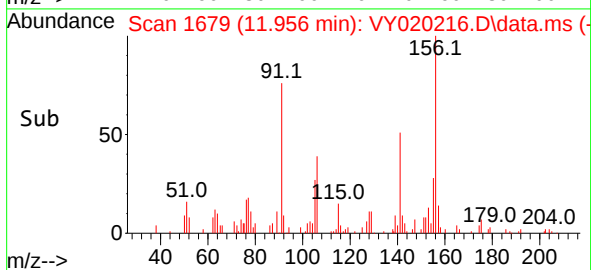
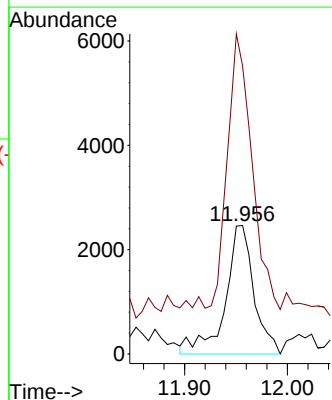
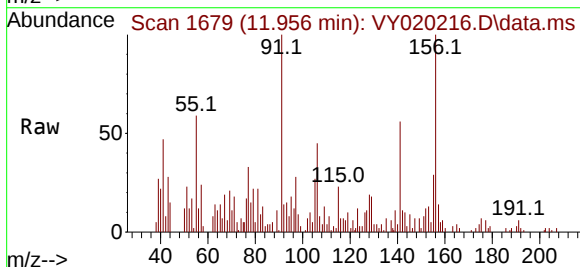
Instrument :
MSVOA_Y
ClientSampleId :

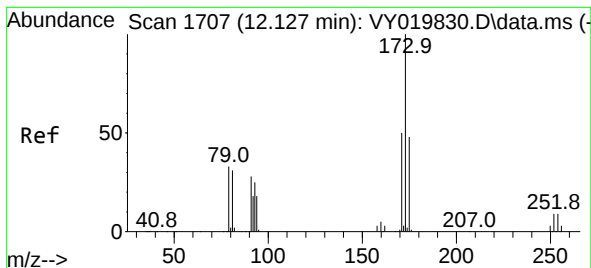
Tgt Ion:106 Resp: 2230
Ion Ratio Lower Upper
106 100
91 262.9 156.0 234.0#



#69
o-Xylene
Concen: 2.432 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.000 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

Tgt Ion:106 Resp: 4764
Ion Ratio Lower Upper
106 100
91 186.9 103.6 310.8





#71

Bromoform

Concen: 1.013 ug/l

RT: 12.151 min Scan# 1711

Delta R.T. 0.019 min

Lab File: VY020216.D

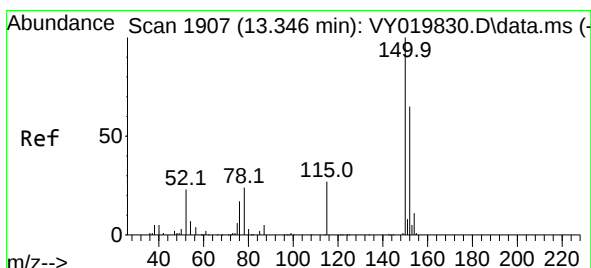
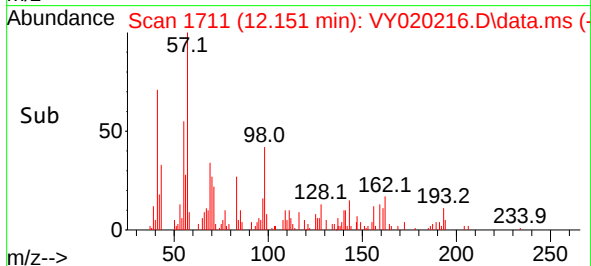
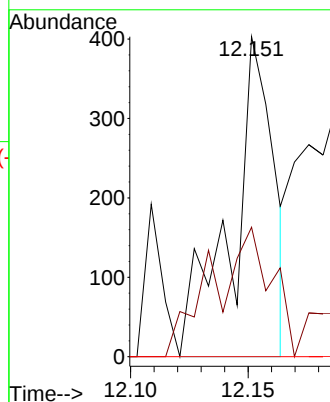
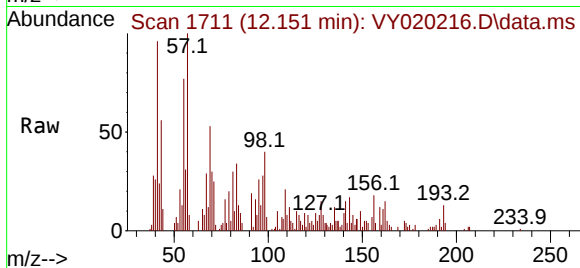
Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:173	Resp:	502
Ion Ratio	Lower	Upper
173	100	
175	56.8	25.1 75.3
254	0.0	0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

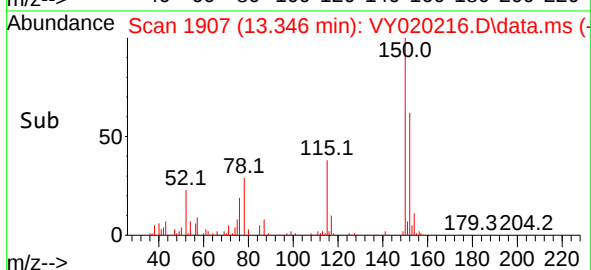
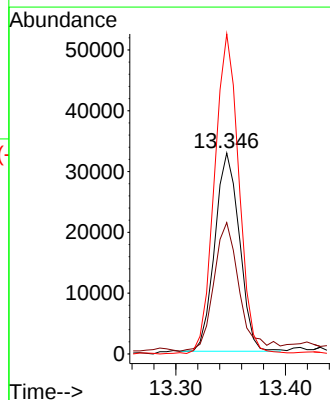
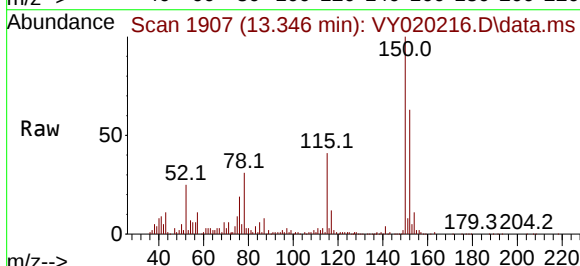
RT: 13.346 min Scan# 1907

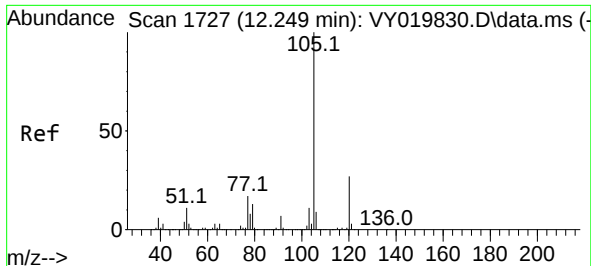
Delta R.T. 0.000 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Tgt Ion:152	Resp:	50872
Ion Ratio	Lower	Upper
152	100	
115	68.3	28.2 84.7
150	160.1	0.0 345.6

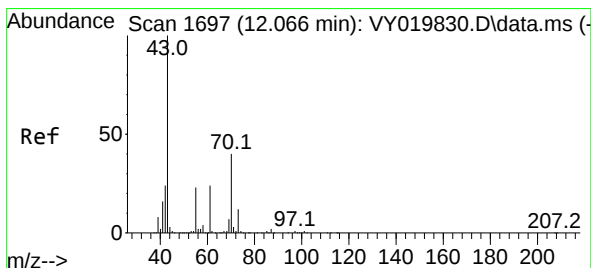
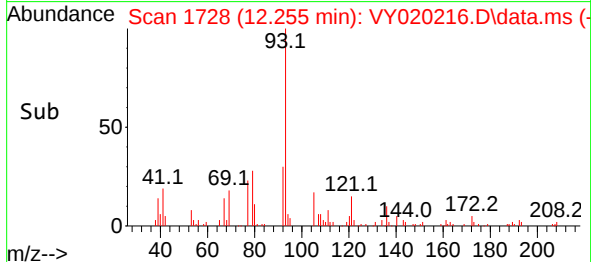
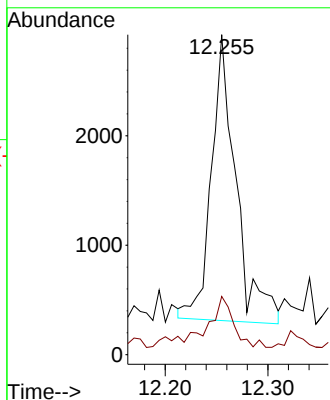
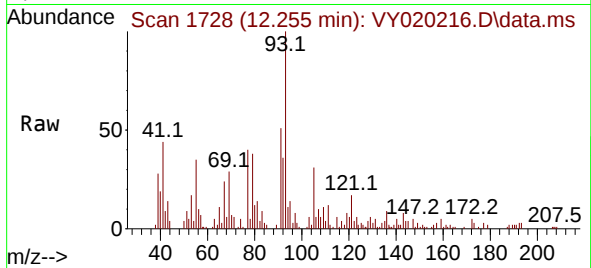




#73
Isopropylbenzene
Concen: 1.070 ug/l
RT: 12.255 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

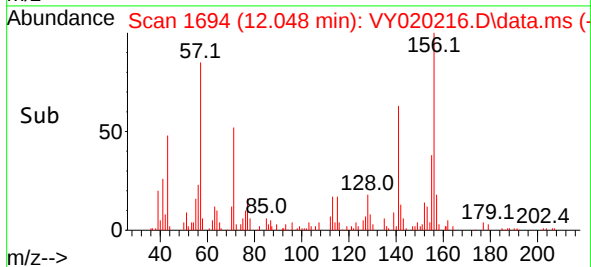
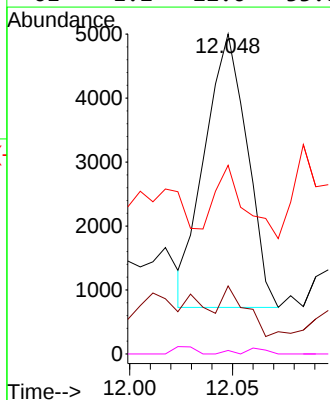
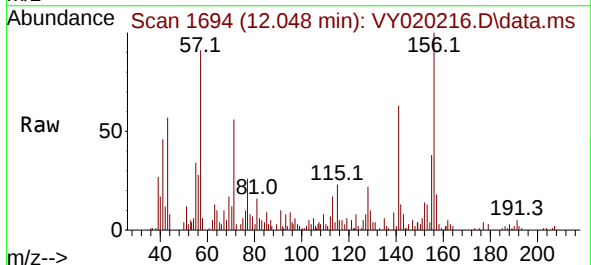
Instrument :
MSVOA_Y
ClientSampleId :

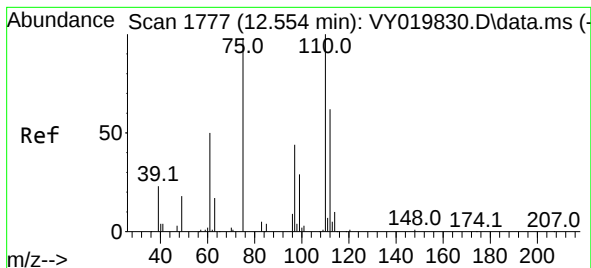
Tgt Ion:105 Resp: 4350
Ion Ratio Lower Upper
105 100
120 25.6 13.4 40.1



#74
N-ethyl acetate
Concen: 6.026 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.024 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

Tgt Ion: 43 Resp: 6122
Ion Ratio Lower Upper
43 100
70 9.0 41.4 62.2#
55 21.4 23.3 34.9#
61 1.2 22.6 33.8#





#76

1,2,3-Trichloropropane

Concen: 3.315 ug/l

RT: 12.596 min Scan# 1

Delta R.T. 0.037 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

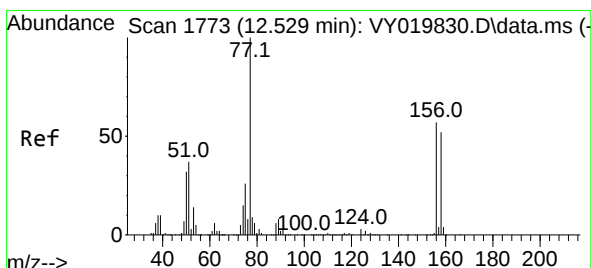
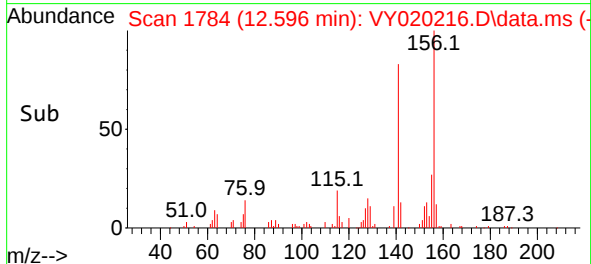
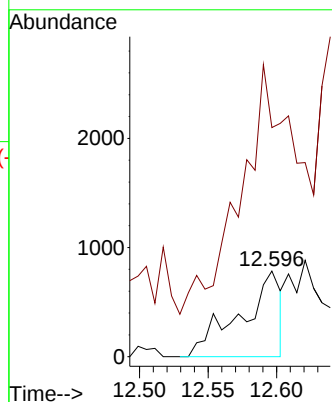
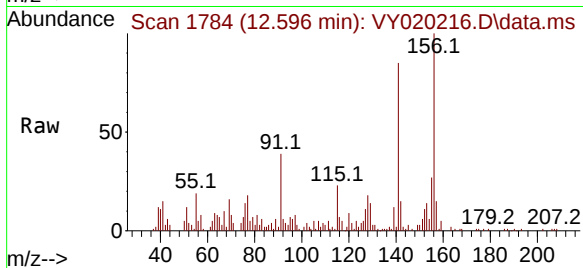
ClientSampleId :

Tgt Ion: 75 Resp: 1581

Ion Ratio Lower Upper

75 100

77 411.1 0.0 0.0#



#77

Bromobenzene

Concen: 87.950 ug/l

RT: 12.615 min Scan# 1787

Delta R.T. 0.079 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

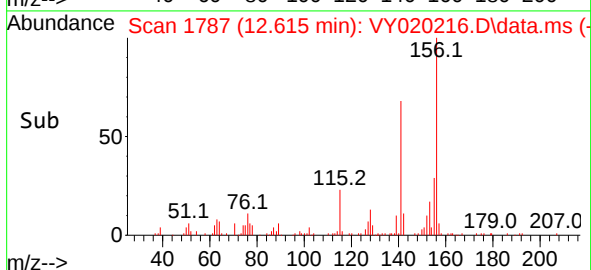
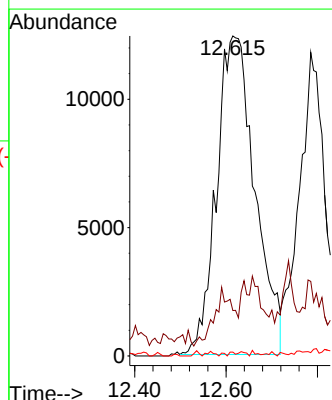
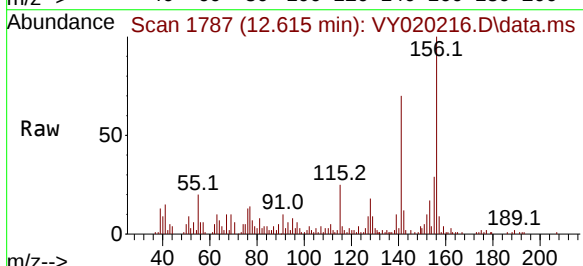
Tgt Ion:156 Resp: 72285

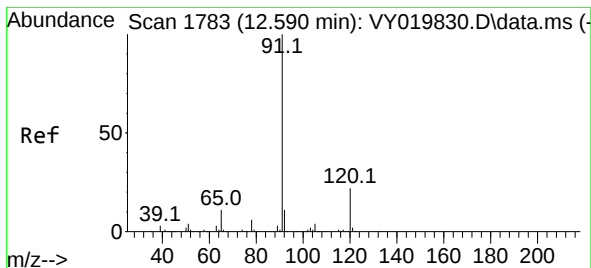
Ion Ratio Lower Upper

156 100

77 0.0 87.1 261.3#

158 0.2 48.6 145.9#





#78

n-propylbenzene

Concen: 1.406 ug/l

RT: 12.596 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

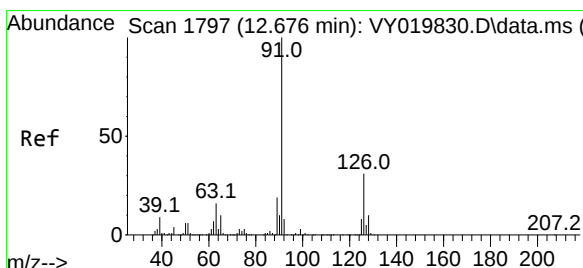
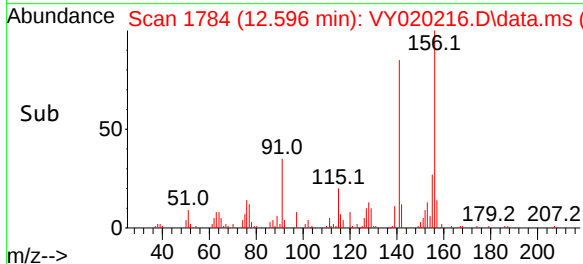
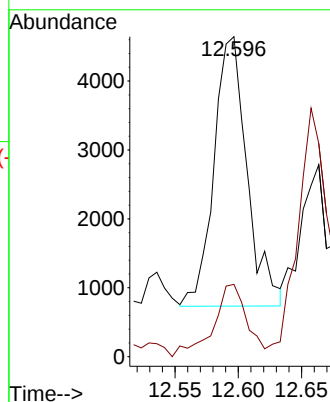
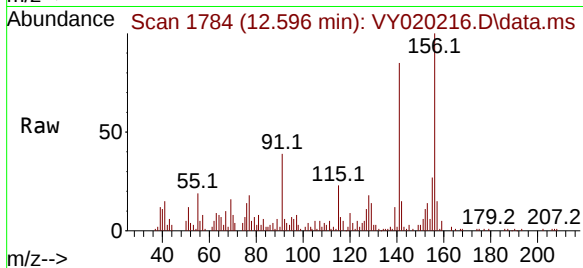
ClientSampleId :

Tgt Ion: 91 Resp: 7113

Ion Ratio Lower Upper

91 100

120 27.1 11.5 34.4



#79

2-Chlorotoluene

Concen: 1.233 ug/l

RT: 12.743 min Scan# 1808

Delta R.T. 0.061 min

Lab File: VY020216.D

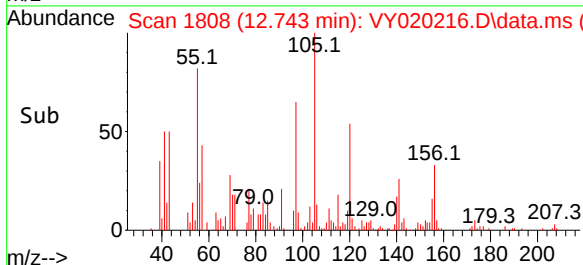
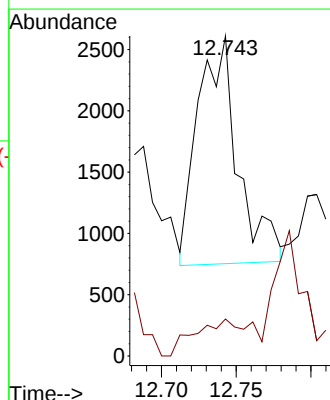
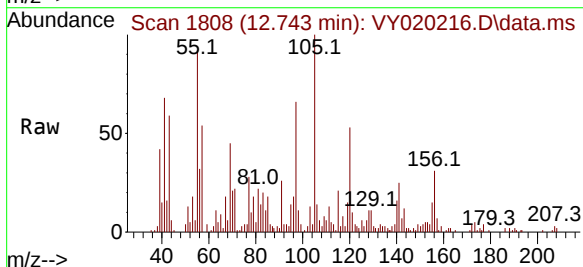
Acq: 07 Nov 2024 18:51

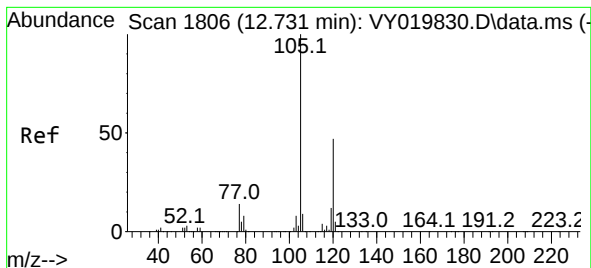
Tgt Ion: 91 Resp: 3463

Ion Ratio Lower Upper

91 100

126 18.5 17.8 53.5





#80

1,3,5-Trimethylbenzene

Concen: 6.727 ug/l

RT: 12.737 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

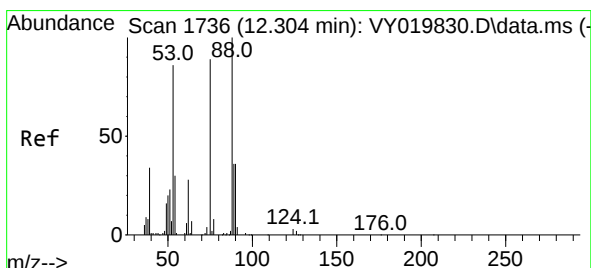
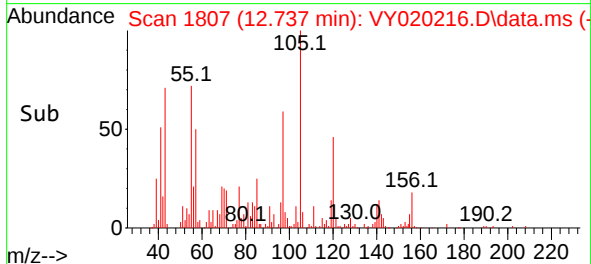
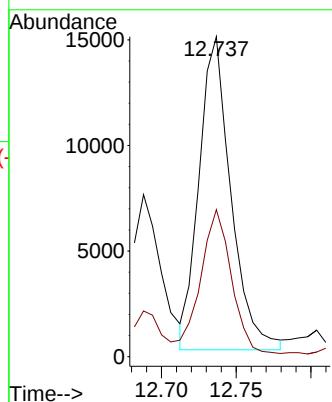
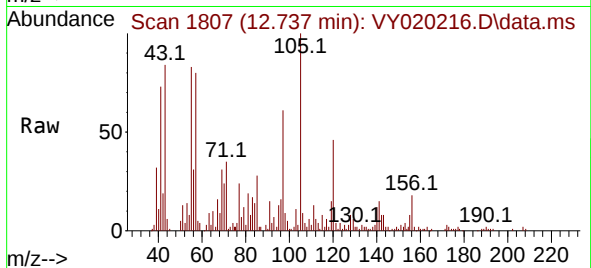
ClientSampleId :

Tgt Ion:105 Resp: 21949

Ion Ratio Lower Upper

105 100

120 45.7 25.1 75.2



#81

trans-1,4-Dichloro-2-butene

Concen: 150.567 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

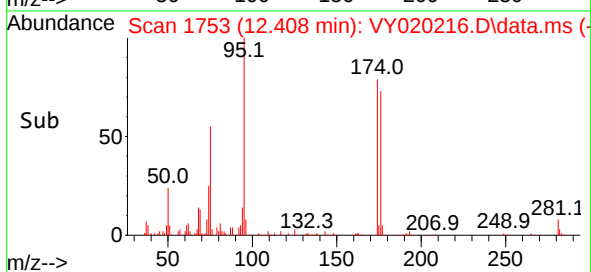
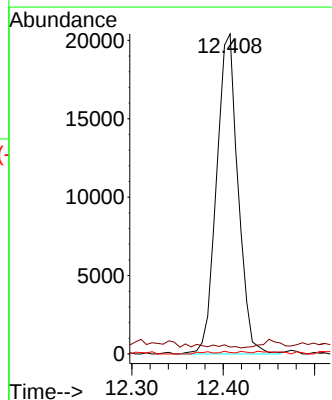
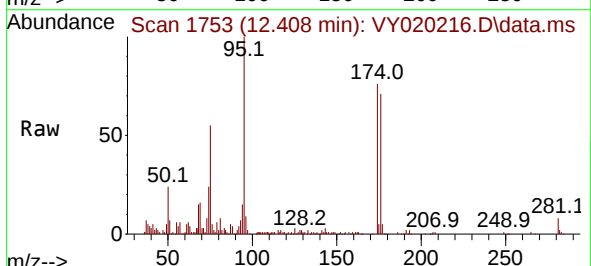
Tgt Ion: 75 Resp: 33381

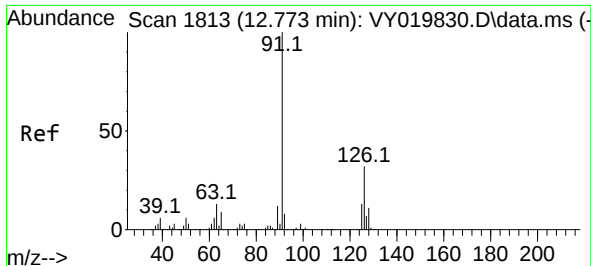
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.2 35.8 53.6#

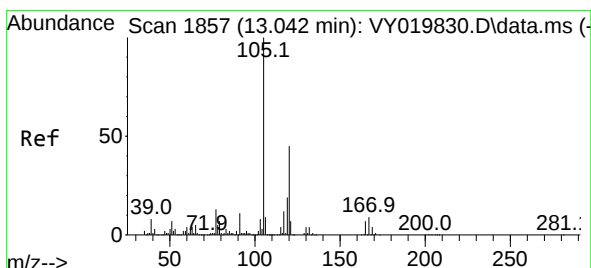
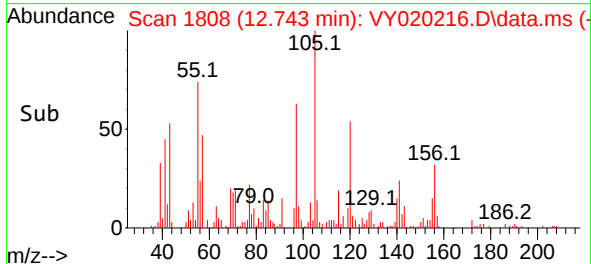
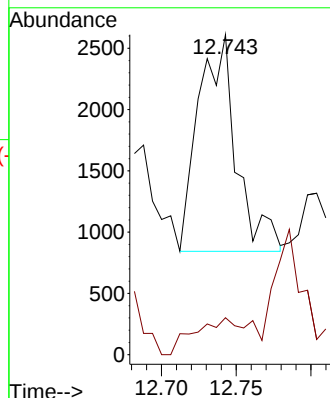
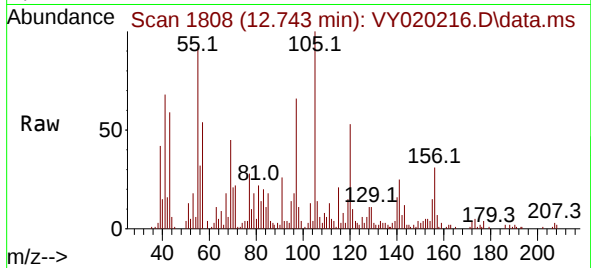




#82
4-Chlorotoluene
Concen: 1.086 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.036 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

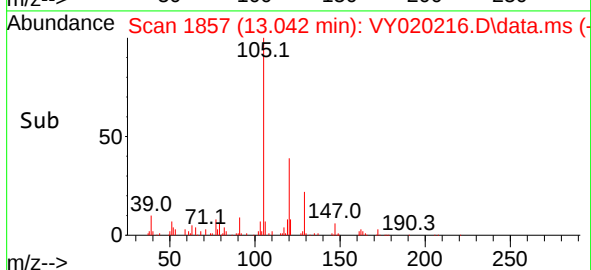
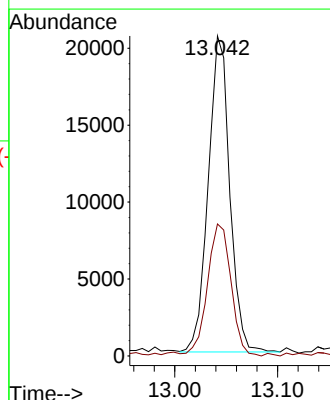
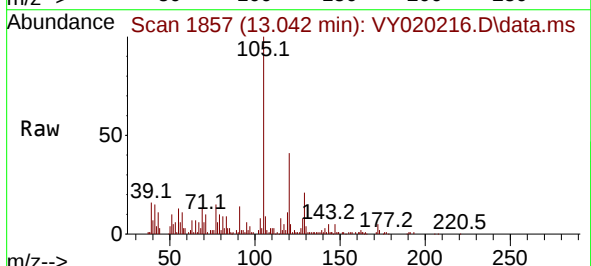
Instrument :
MSVOA_Y
ClientSampleId :

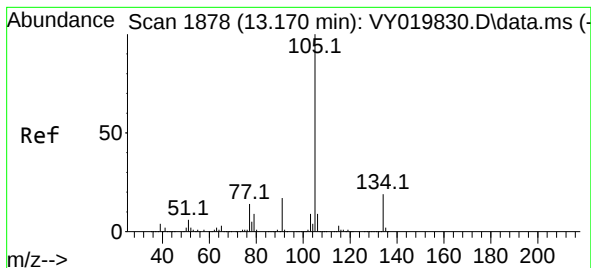
Tgt Ion: 91 Resp: 3109
Ion Ratio Lower Upper
91 100
126 20.6 17.6 52.9



#84
1,2,4-Trimethylbenzene
Concen: 9.252 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

Tgt Ion: 105 Resp: 29899
Ion Ratio Lower Upper
105 100
120 46.8 23.2 69.6





#85

sec-Butylbenzene

Concen: 1.782 ug/l

RT: 13.176 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

Instrument :

MSVOA_Y

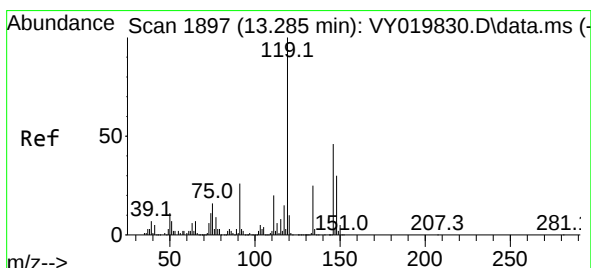
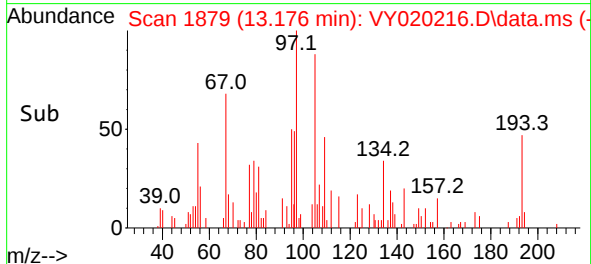
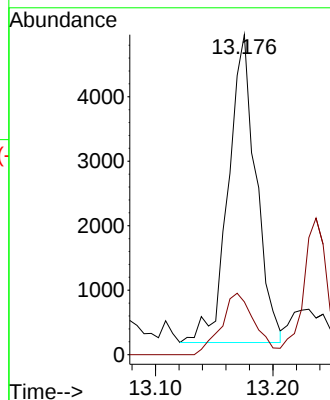
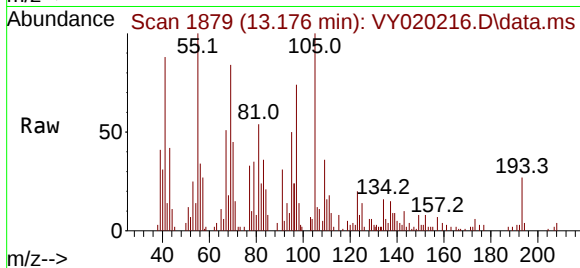
ClientSampleId :

Tgt Ion:105 Resp: 7806

Ion Ratio Lower Upper

105 100

134 24.2 10.1 30.1



#86

p-Isopropyltoluene

Concen: 1.603 ug/l

RT: 13.291 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY020216.D

Acq: 07 Nov 2024 18:51

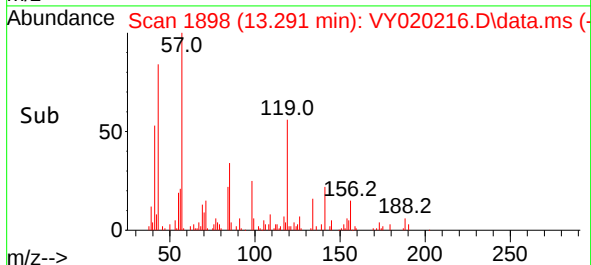
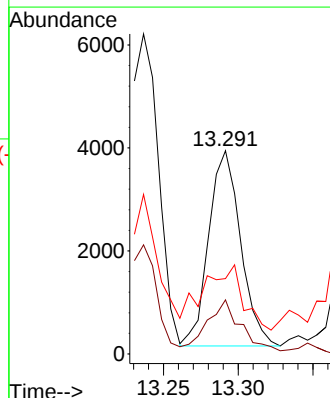
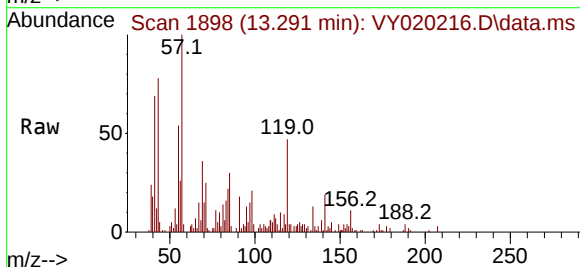
Tgt Ion:119 Resp: 5633

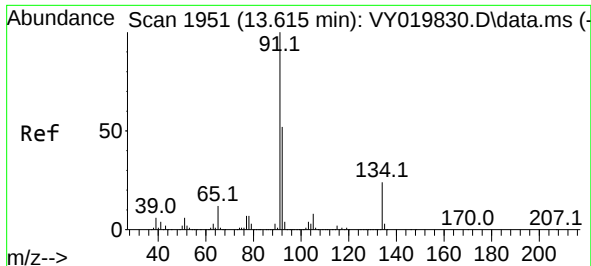
Ion Ratio Lower Upper

119 100

134 26.6 13.1 39.3

91 41.7 10.7 32.1#

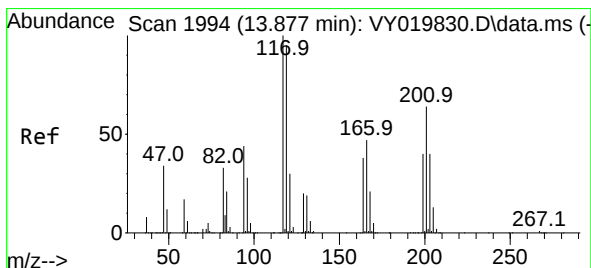
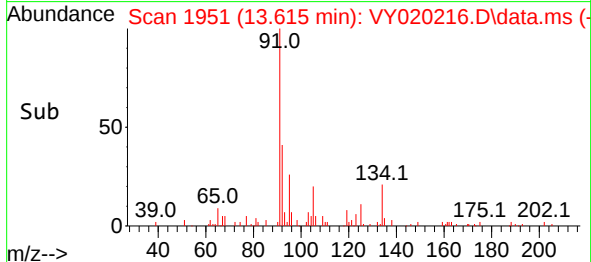
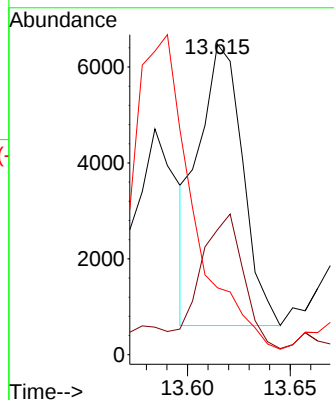
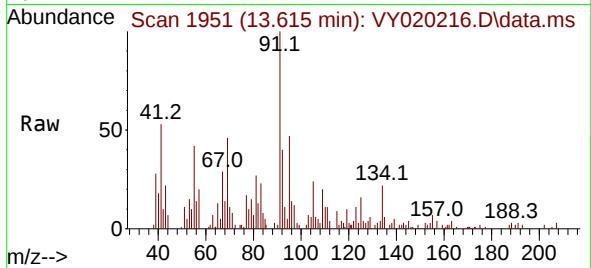




#89
n-Butylbenzene
Concen: 2.484 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. -0.006 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

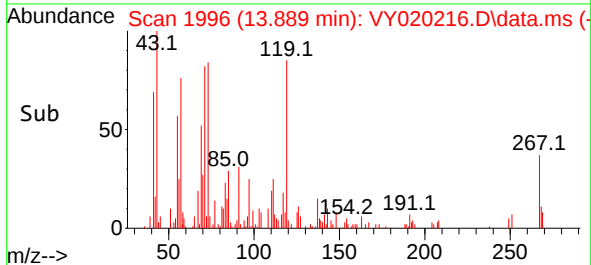
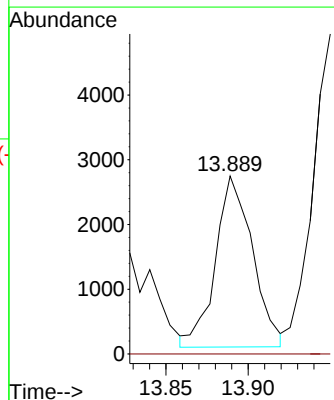
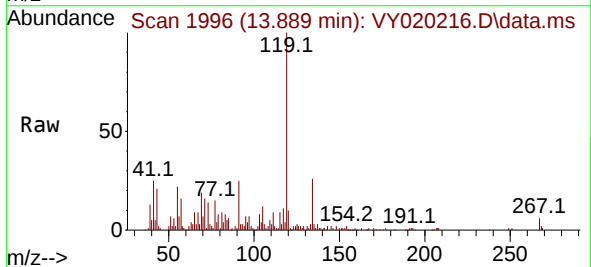
Instrument :
MSVOA_Y
ClientSampleId :

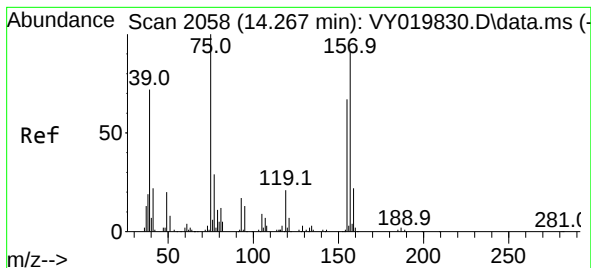
Tgt Ion: 91 Resp: 8752
Ion Ratio Lower Upper
91 100
92 46.8 26.6 79.7
134 0.0 12.9 38.7#



#90
Hexachloroethane
Concen: 5.945 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.006 min
Lab File: VY020216.D
Acq: 07 Nov 2024 18:51

Tgt Ion: 117 Resp: 4132
Ion Ratio Lower Upper
117 100
201 0.0 37.4 112.2#

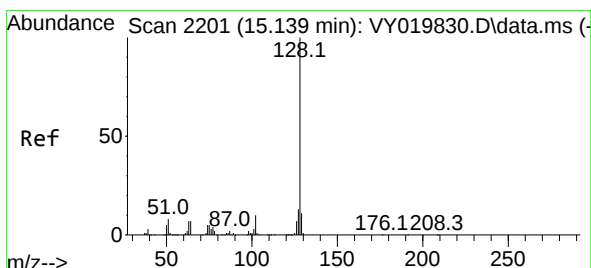
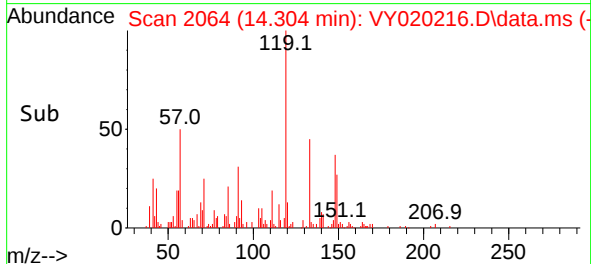
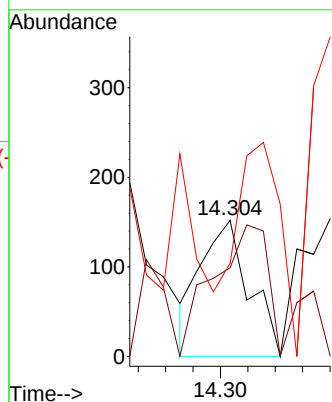
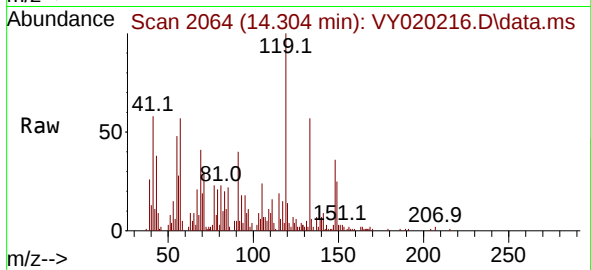




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.735 ug/l
 RT: 14.304 min Scan# 2064
 Delta R.T. 0.031 min
 Lab File: VY020216.D
 Acq: 07 Nov 2024 18:51

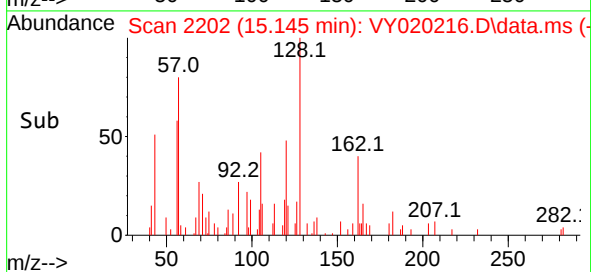
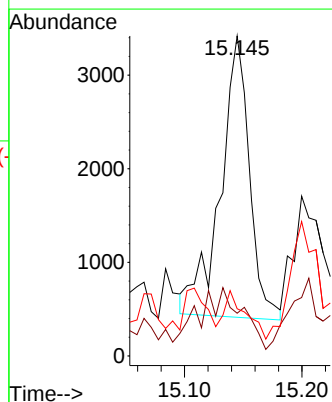
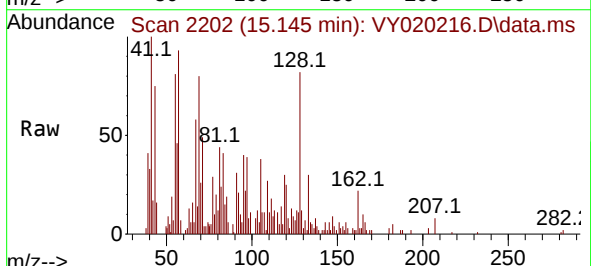
Instrument :
 MSVOA_Y
 ClientSampleId :

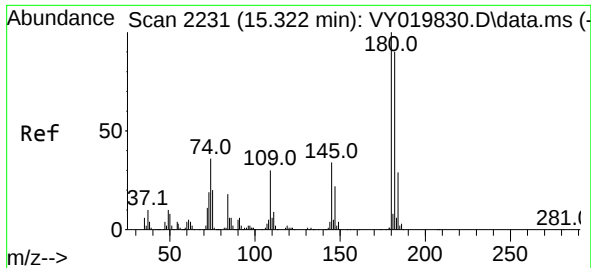
Tgt Ion: 75 Resp: 187
 Ion Ratio Lower Upper
 75 100
 155 134.2 48.6 145.8
 157 144.4 62.7 188.2



#95
 Naphthalene
 Concen: 3.530 ug/l
 RT: 15.145 min Scan# 2202
 Delta R.T. 0.000 min
 Lab File: VY020216.D
 Acq: 07 Nov 2024 18:51

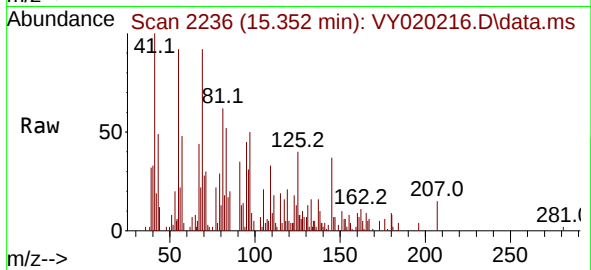
Tgt Ion: 128 Resp: 5144
 Ion Ratio Lower Upper
 128 100
 127 32.7 10.6 16.0#
 129 12.8 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 1.135 ug/l
 RT: 15.352 min Scan# 21
 Delta R.T. 0.025 min
 Lab File: VY020216.D
 Acq: 07 Nov 2024 18:51

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:180 Resp: 751
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.6 142.9#
 145 690.8 15.4 46.1#

