

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110623\
 Data File : VY016233.D
 Acq On : 06 Nov 2023 13:46
 Operator : SY/MD
 Sample : 05253-04
 Misc : 4.89g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 06 23:56:54 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 01 03:33:29 2023
 Response via : Initial Calibration

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

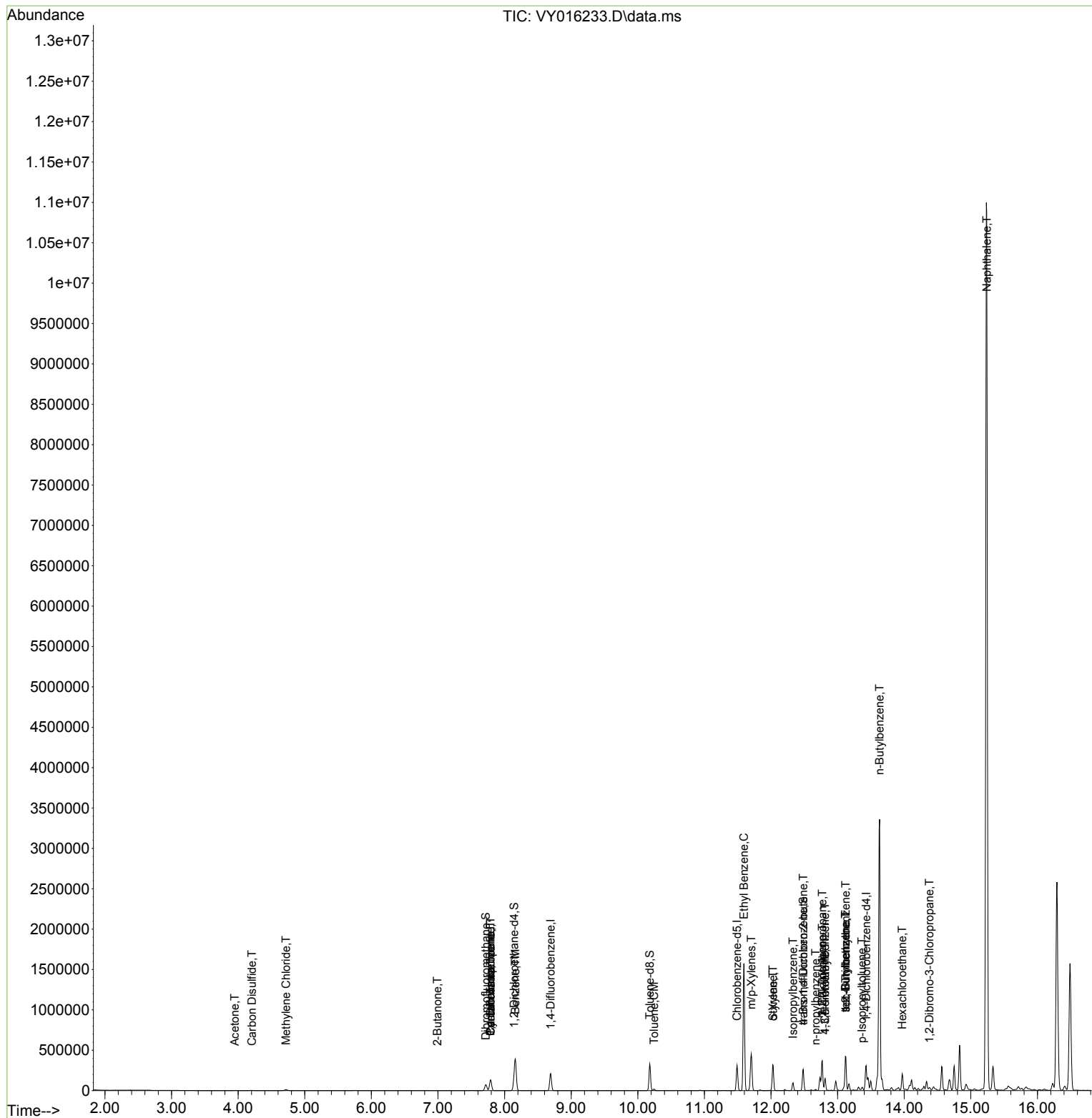
Internal Standards						
1) Pentafluorobenzene	7.789	168	104207	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.691	114	184713	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	171757	50.000	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.428	152	78964	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	59362	60.878	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.760%			
35) Dibromofluoromethane	7.716	113	52519	47.692	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 95.380%			
50) Toluene-d8	10.179	98	216459	49.578	ug/l	-0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.160%			
62) 4-Bromofluorobenzene	12.483	95	76540	51.267	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 102.540%			
Target Compounds					Qvalue	
13) Acrolein	3.735	56	19	Below Cal	#	21
16) Acetone	3.948	43	3667	4.848	ug/l #	86
17) Carbon Disulfide	4.204	76	7981	3.877	ug/l	99
20) Methylene Chloride	4.716	84	9754	7.230	ug/l #	86
25) 2-Butanone	6.990	43	837	3.111	ug/l #	89
31) Cyclohexane	7.789	56	1946	1.298	ug/l #	1
36) 1,1-Dichloropropene	7.789	75	7737	4.866	ug/l #	50
38) Carbon Tetrachloride	7.789	117	9977	6.333	ug/l #	16
40) Benzene	8.161	78	370470	81.153	ug/l	99
52) Toluene	10.246	92	7792	2.634	ug/l	98
67) Ethyl Benzene	11.593	91	1061756	173.959	ug/l	99
68) m/p-Xylenes	11.703	106	143823	60.981	ug/l	94
69) o-Xylene	12.032	106	86131	38.249	ug/l	98
70) Styrene	12.032	104	6555	1.751	ug/l #	1
73) Isopropylbenzene	12.331	105	59945	10.120	ug/l	99
76) 1,2,3-Trichloropropane	12.770	75	1653	2.223	ug/l #	100
78) n-propylbenzene	12.672	91	10233	1.461	ug/l	95
79) 2-Chlorotoluene	12.770	91	26332	6.742	ug/l #	43
80) 1,3,5-Trimethylbenzene	12.812	105	70837	14.761	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.483	75	39048	113.857	ug/l #	11
82) 4-Chlorotoluene	12.812	91	7744	1.931	ug/l #	40
83) tert-Butylbenzene	13.117	119	30090	7.008	ug/l #	59
84) 1,2,4-Trimethylbenzene	13.123	105	234109	49.302	ug/l	97
85) sec-Butylbenzene	13.123	105	234109	37.148	ug/l #	56
86) p-Isopropyltoluene	13.367	119	15308	2.931	ug/l #	76
89) n-Butylbenzene	13.629	91	301477	62.817	ug/l #	44
90) Hexachloroethane	13.971	117	12391	13.766	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.379	75	224	1.328	ug/l #	3
95) Naphthalene	15.239	128	9040837	3289.877	ug/l	98

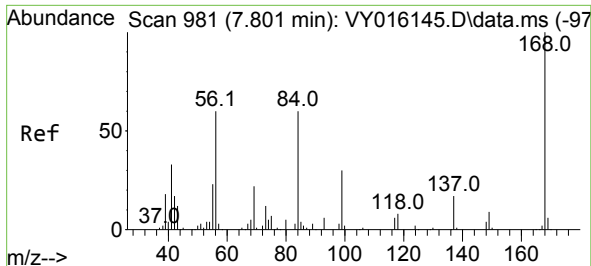
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110623\
Data File : VY016233.D
Acq On : 06 Nov 2023 13:46
Operator : SY/MD
Sample : 05253-04
Misc : 4.89g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: Nov 06 23:56:54 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
Quant Title : SW846 8260
QLast Update : Wed Nov 01 03:33:29 2023
Response via : Initial Calibration

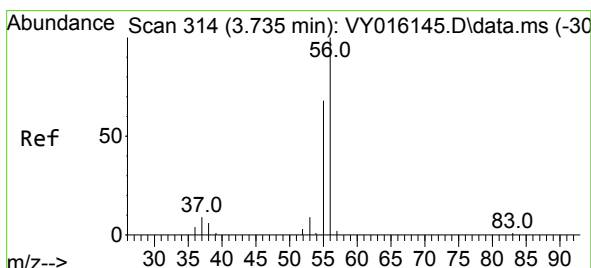
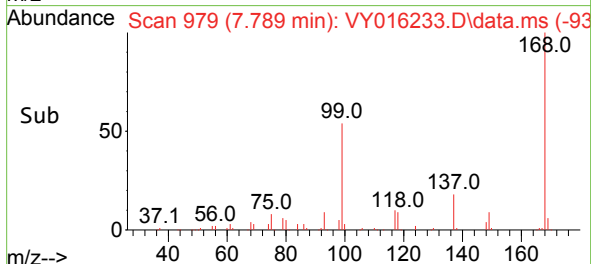
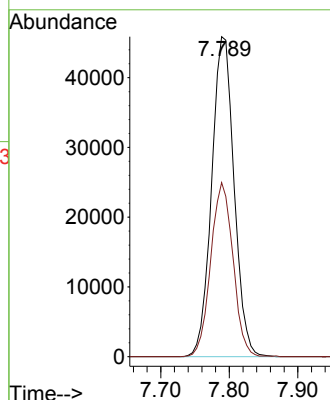
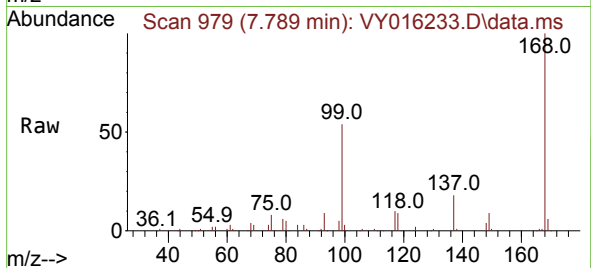




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

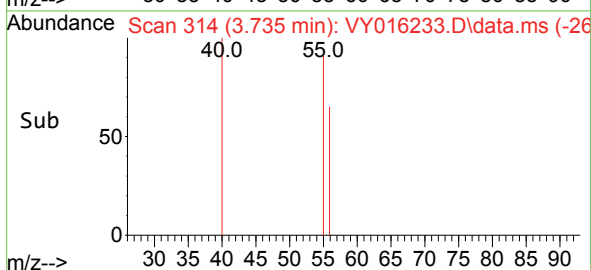
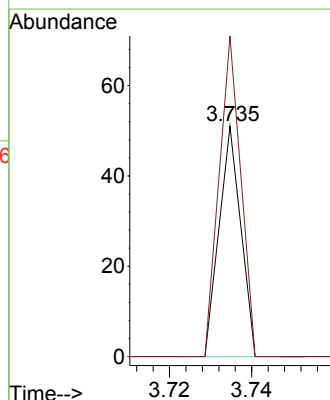
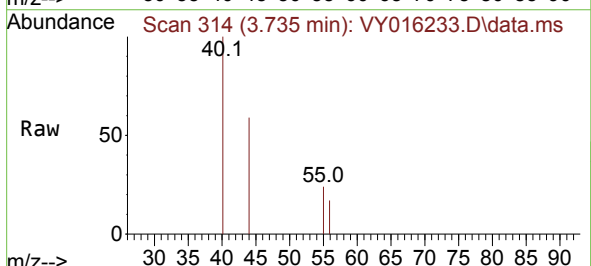
Instrument :
MSVOA_Y
ClientSampleId :

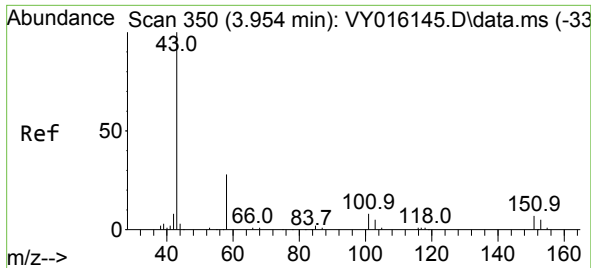
Tgt Ion:168 Resp: 104207
Ion Ratio Lower Upper
168 100
99 54.4 43.4 65.0



#13
Acrolein
Concen: Below Cal
RT: 3.735 min Scan# 314
Delta R.T. -0.000 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 56 Resp: 19
Ion Ratio Lower Upper
56 100
55 136.8 57.0 85.4#





#16

Acetone

Concen: 4.848 ug/l

RT: 3.948 min Scan# 349

Delta R.T. -0.006 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_Y

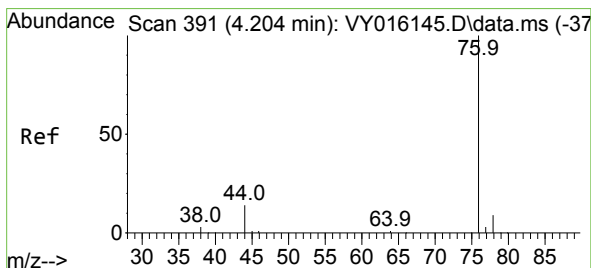
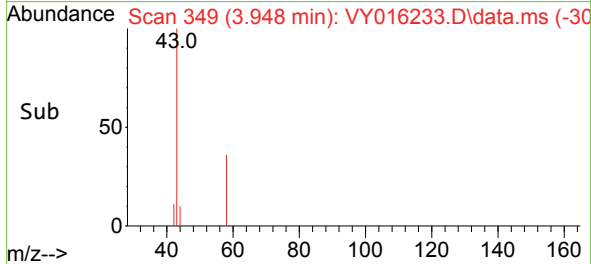
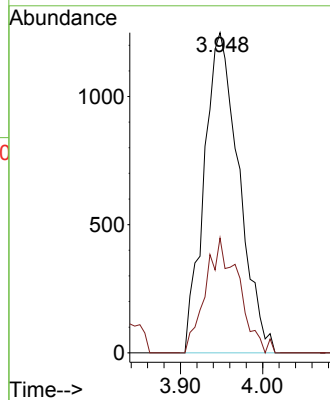
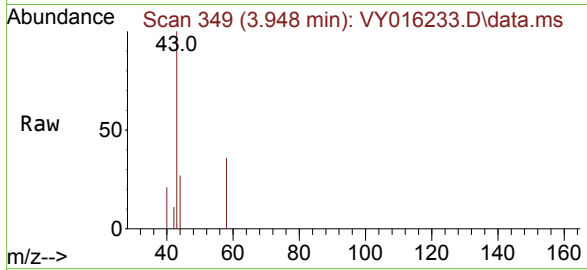
ClientSampleId :

Tgt Ion: 43 Resp: 3667

Ion Ratio Lower Upper

43 100

58 35.9 22.7 34.1#



#17

Carbon Disulfide

Concen: 3.877 ug/l

RT: 4.204 min Scan# 391

Delta R.T. 0.000 min

Lab File: VY016233.D

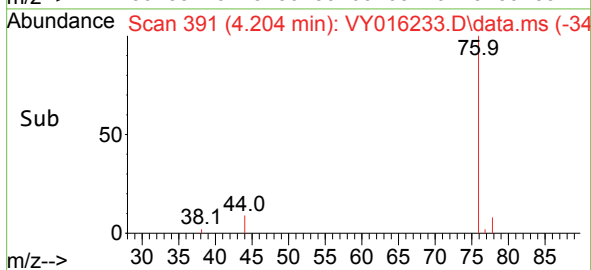
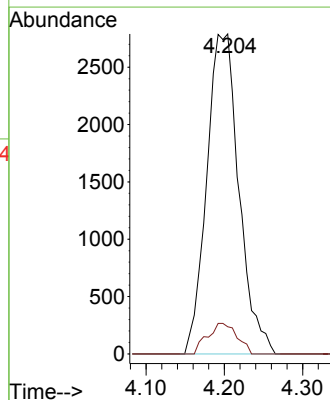
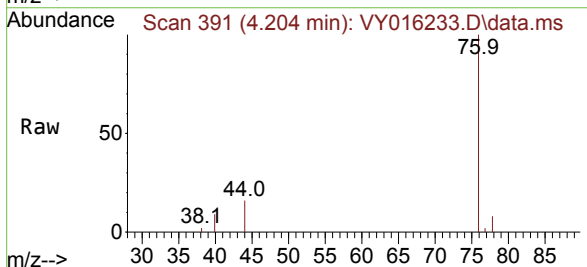
Acq: 06 Nov 2023 13:46

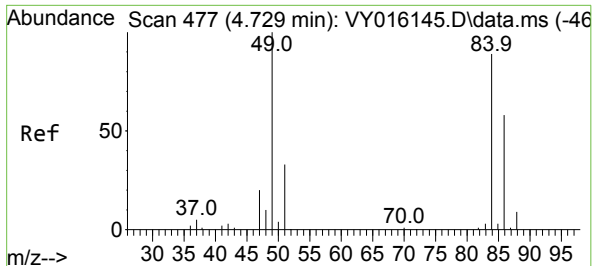
Tgt Ion: 76 Resp: 7981

Ion Ratio Lower Upper

76 100

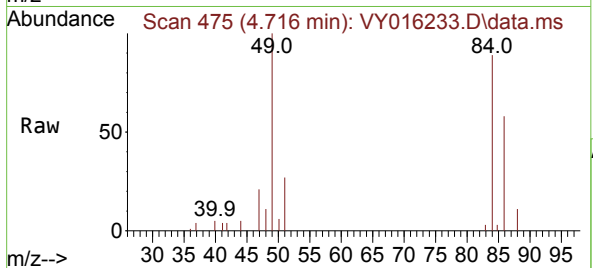
78 8.5 7.0 10.4



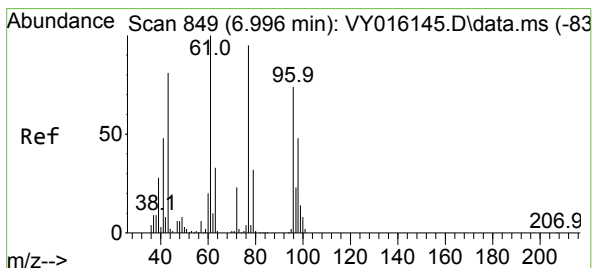
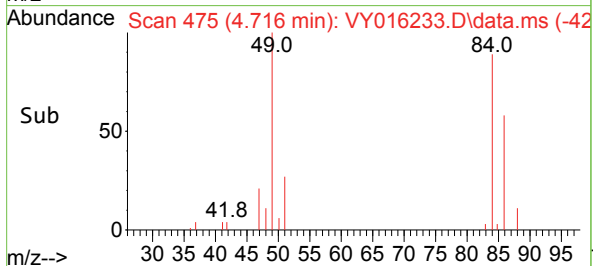
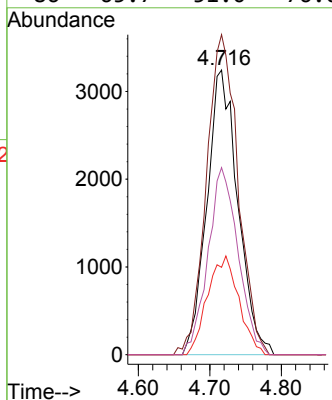


#20
Methylene Chloride
Concen: 7.230 ug/l
RT: 4.716 min Scan# 41
Delta R.T. -0.013 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Instrument :
MSVOA_Y
ClientSampleId :

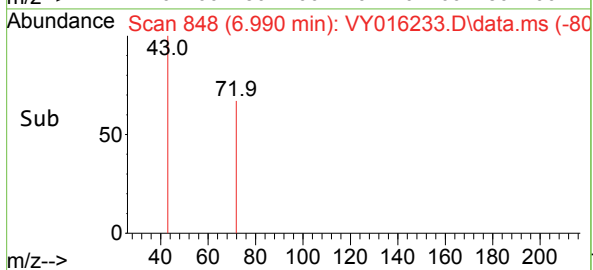
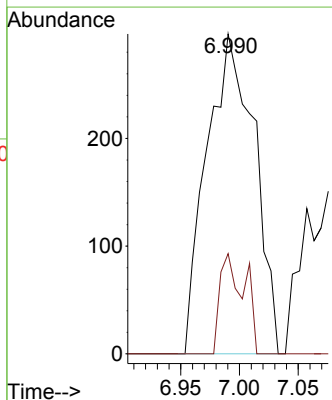
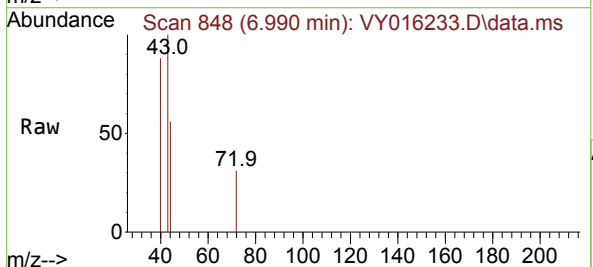


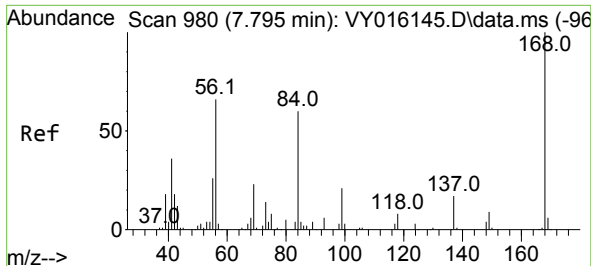
Tgt Ion:	84	Resp:	9754
Ion	Ratio	Lower	Upper
84	100		
49	112.4	106.9	160.3
51	30.7	33.2	49.8#
86	65.7	51.0	76.6



#25
2-Butanone
Concen: 3.111 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

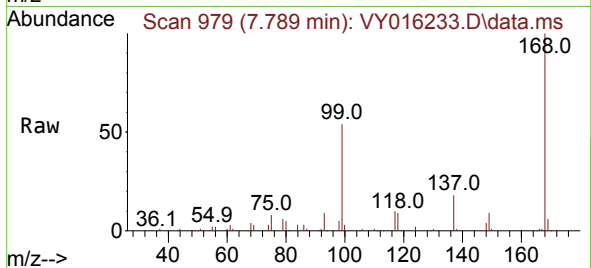
Tgt Ion:	43	Resp:	837
Ion	Ratio	Lower	Upper
43	100		
72	31.3	20.5	30.7#



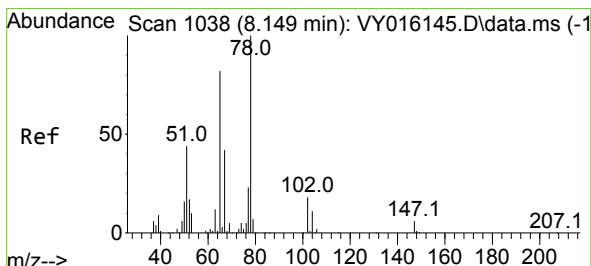
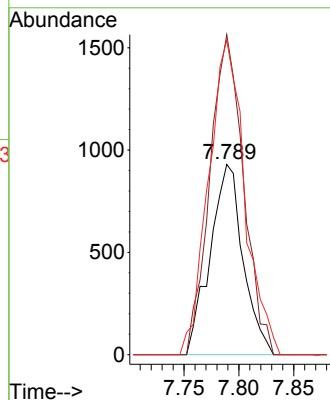
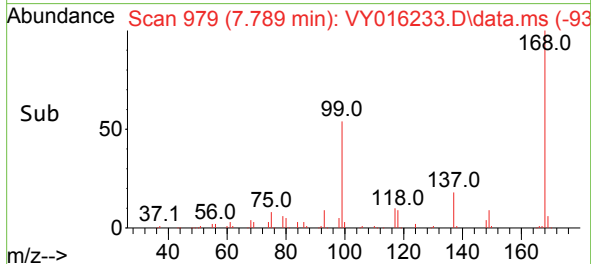


#31
Cyclohexane
Concen: 1.298 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

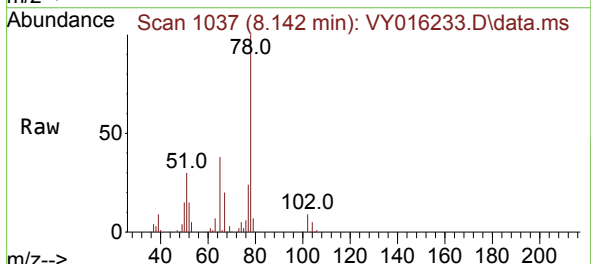
Instrument :
MSVOA_Y
ClientSampleId :



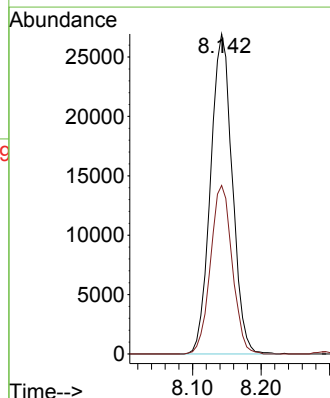
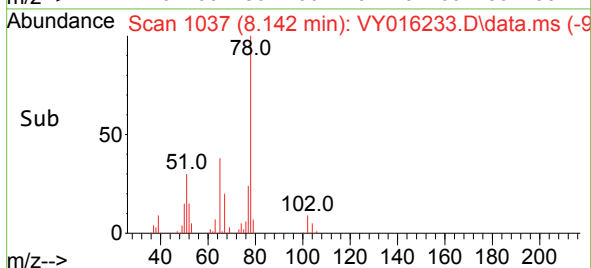
Tgt Ion: 56 Resp: 1946
Ion Ratio Lower Upper
56 100
69 168.2 27.8 41.6#
84 165.3 66.4 99.6#

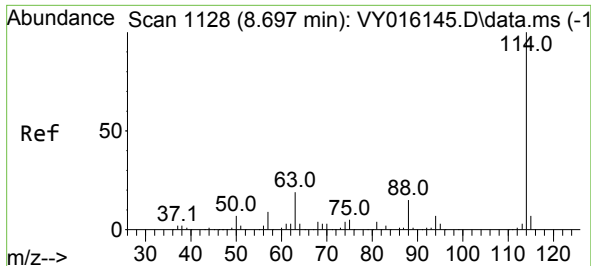


#33
1,2-Dichloroethane-d4
Concen: 60.878 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46



Tgt Ion: 65 Resp: 59362
Ion Ratio Lower Upper
65 100
67 52.6 0.0 101.8

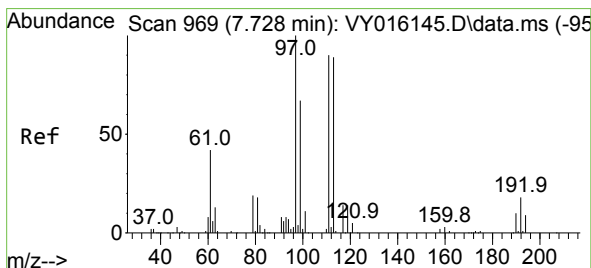
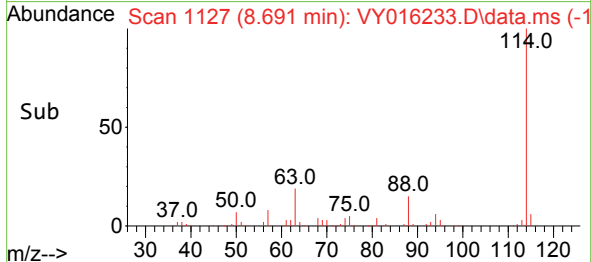
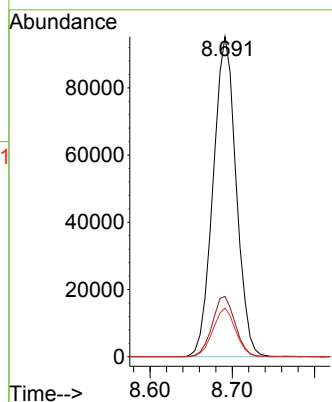
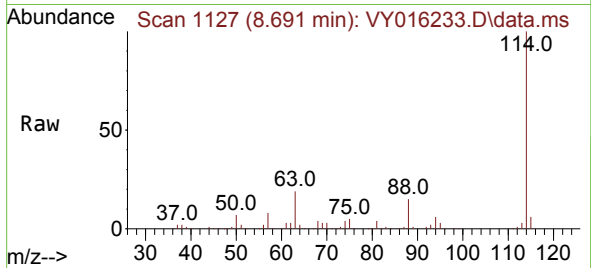




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

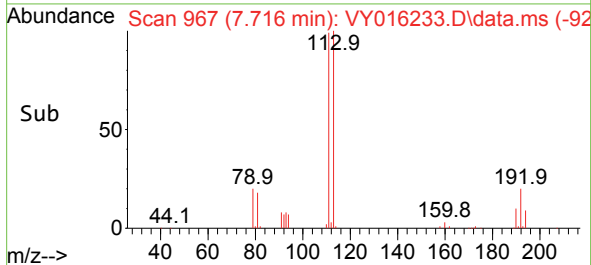
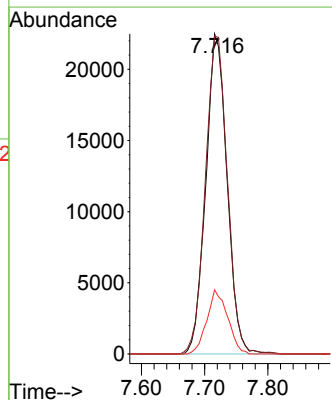
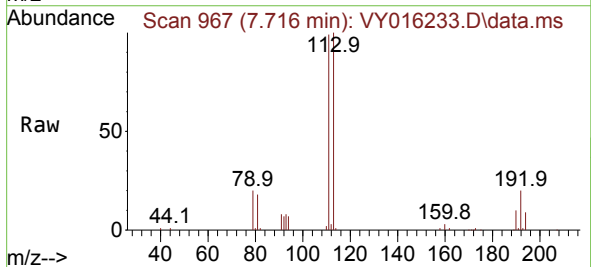
Instrument :
MSVOA_Y
ClientSampleId :

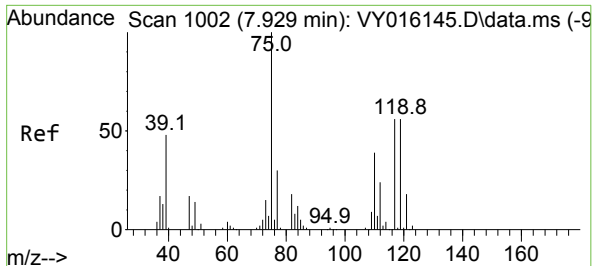
Tgt Ion:114 Resp: 184713
Ion Ratio Lower Upper
114 100
63 18.8 0.0 42.4
88 15.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 47.692 ug/l
RT: 7.716 min Scan# 967
Delta R.T. -0.012 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion:113 Resp: 52519
Ion Ratio Lower Upper
113 100
111 102.9 81.3 121.9
192 19.6 16.9 25.3





#36

1,1-Dichloropropene

Concen: 4.866 ug/l

RT: 7.789 min Scan# 91

Delta R.T. -0.140 min

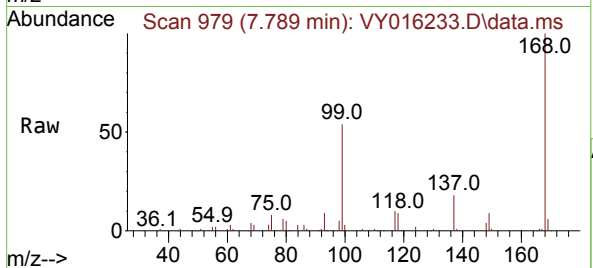
Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

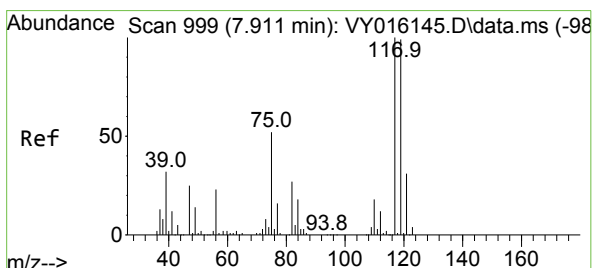
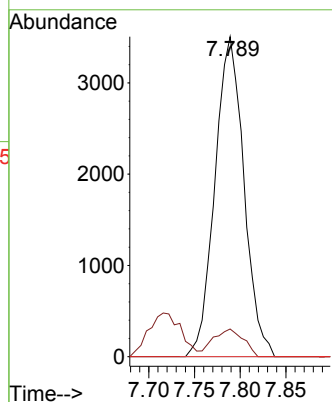
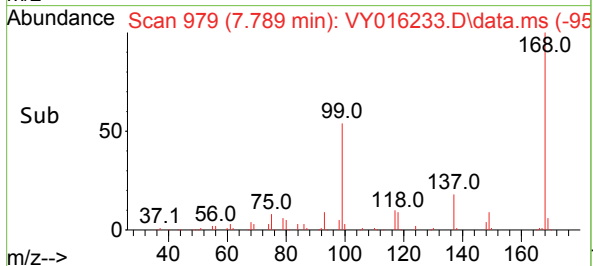
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 75	Resp: 7737
Ion Ratio	Lower Upper
75	100
110	9.1 17.8 53.5#
77	0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.333 ug/l

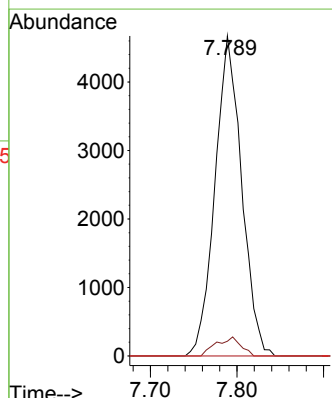
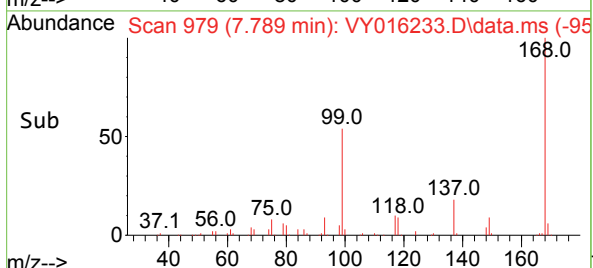
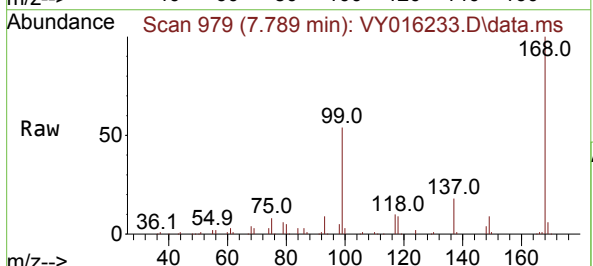
RT: 7.789 min Scan# 979

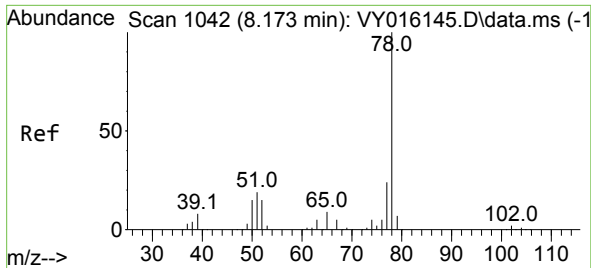
Delta R.T. -0.122 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

Tgt Ion: 117	Resp: 9977
Ion Ratio	Lower Upper
117	100
119	4.6 76.4 114.6#
121	0.0 25.8 38.6#

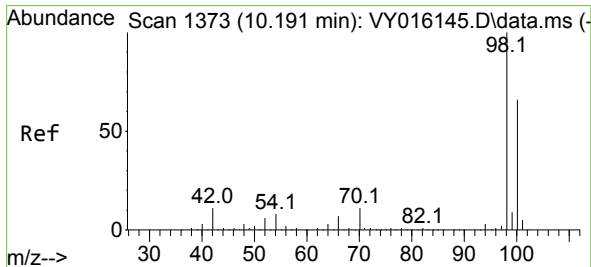
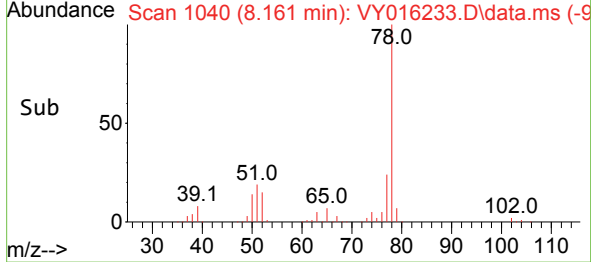
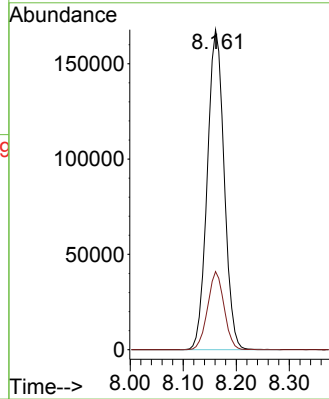
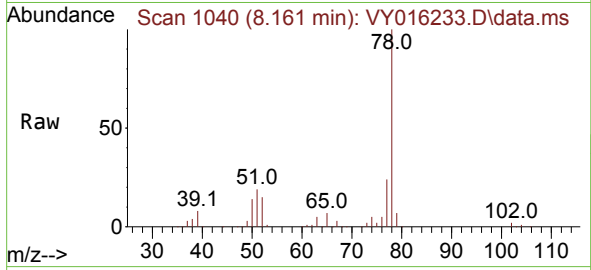




#40
Benzene
Concen: 81.153 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. -0.012 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

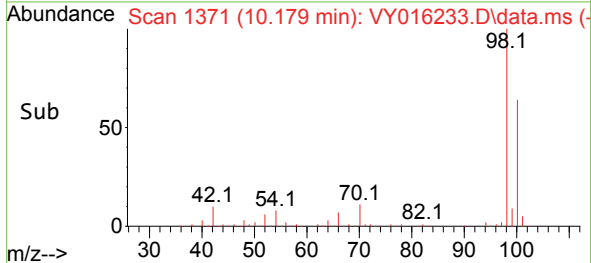
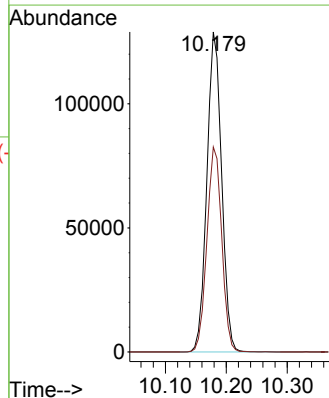
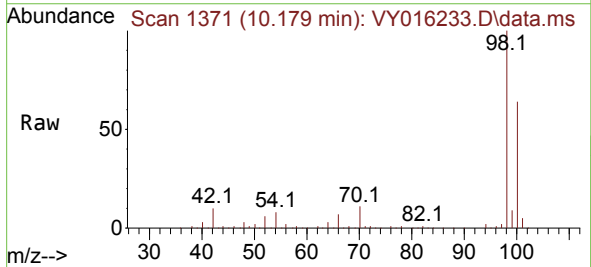
Instrument :
MSVOA_Y
ClientSampleId :

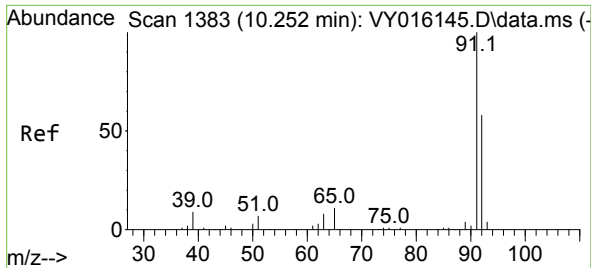
Tgt Ion: 78 Resp: 370470
Ion Ratio Lower Upper
78 100
77 24.4 19.0 28.6



#50
Toluene-d8
Concen: 49.578 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.012 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 98 Resp: 216459
Ion Ratio Lower Upper
98 100
100 64.5 50.1 75.1

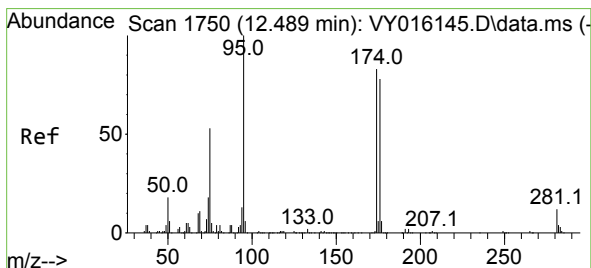
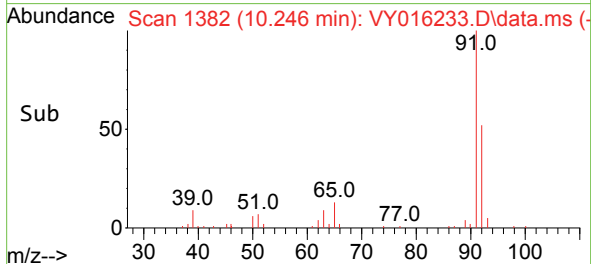
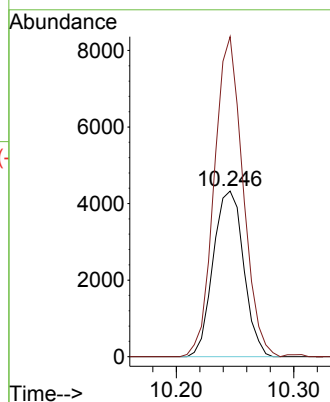
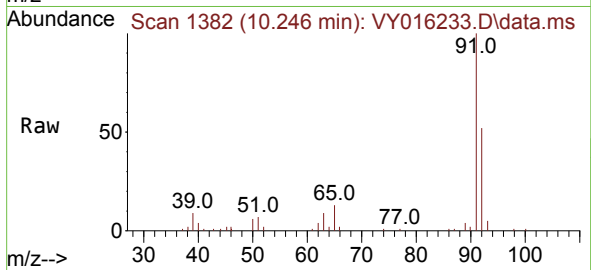




#52
Toluene
Concen: 2.634 ug/l
RT: 10.246 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

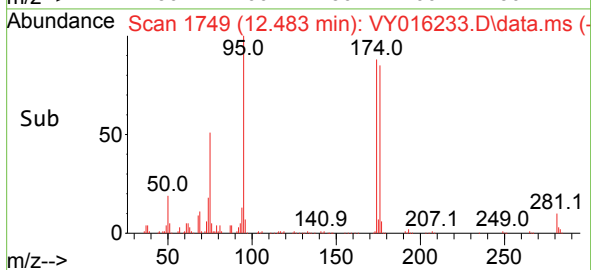
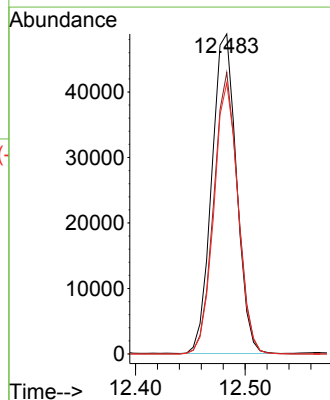
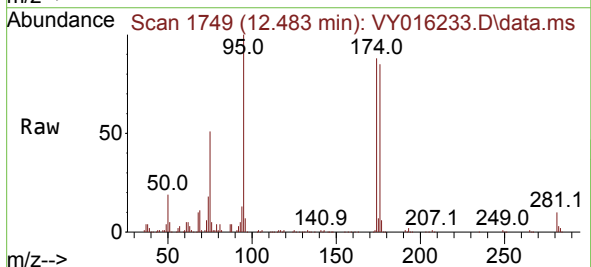
Instrument :
MSVOA_Y
ClientSampleId :

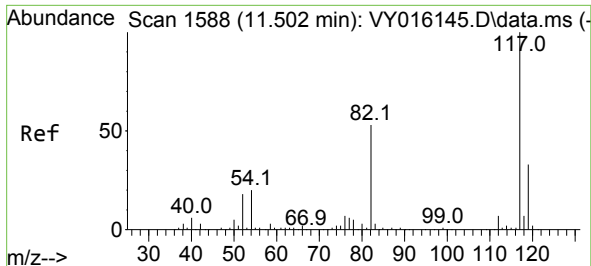
Tgt Ion: 92 Resp: 7792
Ion Ratio Lower Upper
92 100
91 182.3 143.8 215.6



#62
4-Bromofluorobenzene
Concen: 51.267 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 95 Resp: 76540
Ion Ratio Lower Upper
95 100
174 85.8 0.0 178.2
176 83.0 0.0 173.8

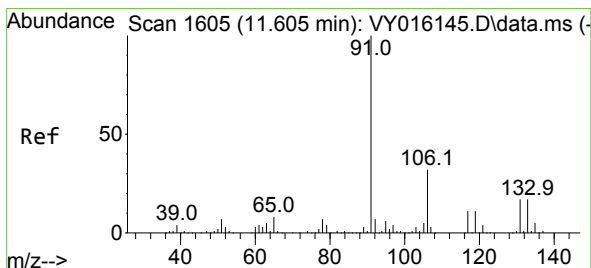
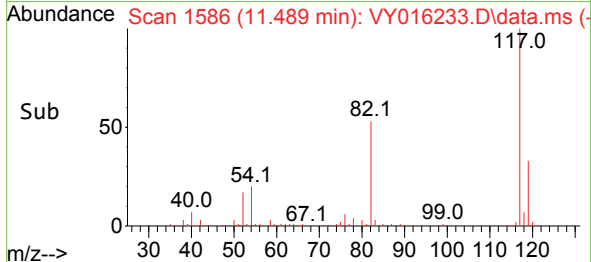
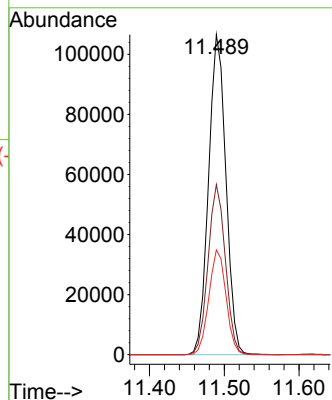
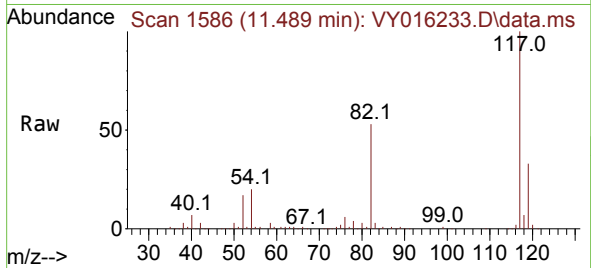




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

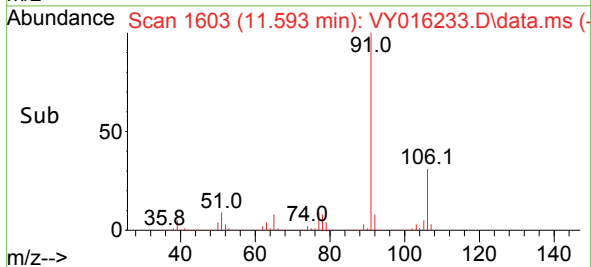
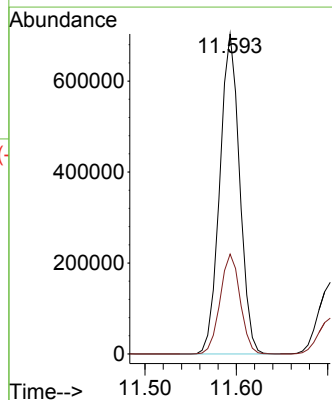
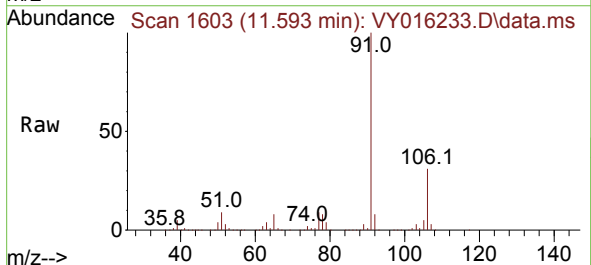
Instrument :
MSVOA_Y
ClientSampleId :

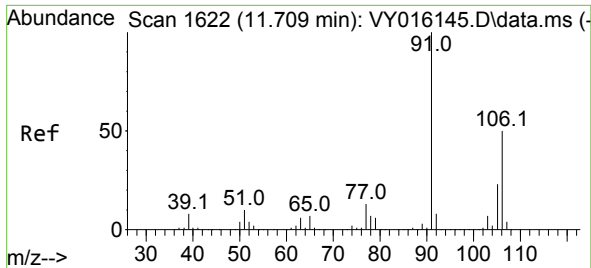
Tgt Ion:117 Resp: 171757
Ion Ratio Lower Upper
117 100
82 53.1 43.4 65.0
119 32.7 26.3 39.5



#67
Ethyl Benzene
Concen: 173.959 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. -0.012 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 91 Resp: 1061756
Ion Ratio Lower Upper
91 100
106 31.2 24.6 36.8

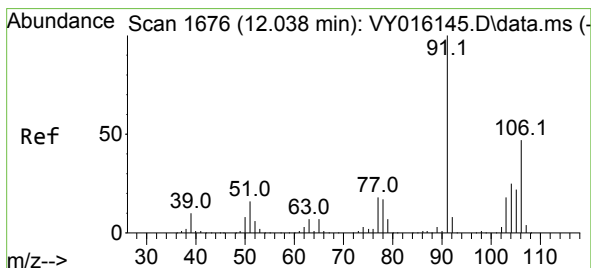
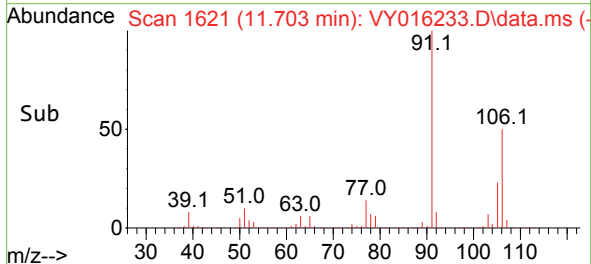
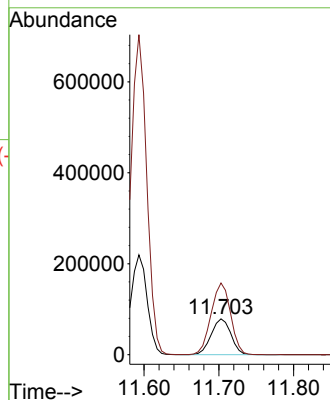
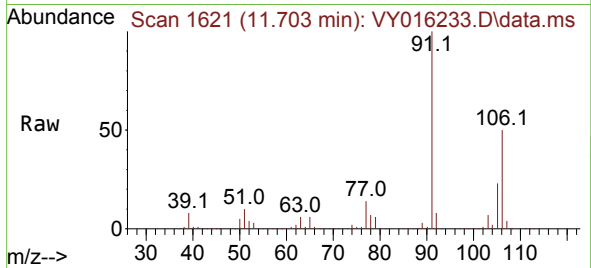




#68
m/p-Xylenes
Concen: 60.981 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

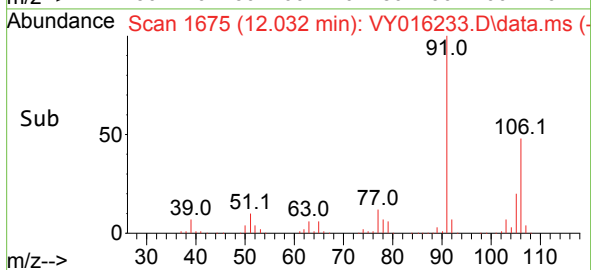
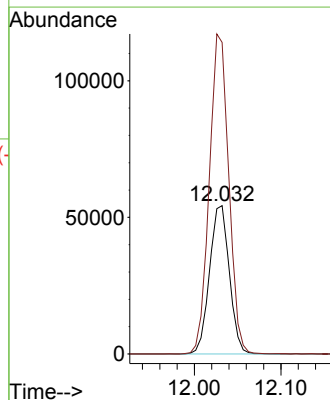
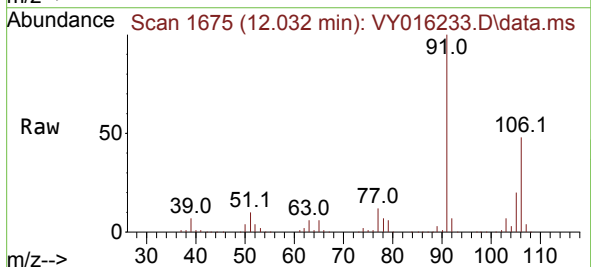
Instrument :
MSVOA_Y
ClientSampleId :

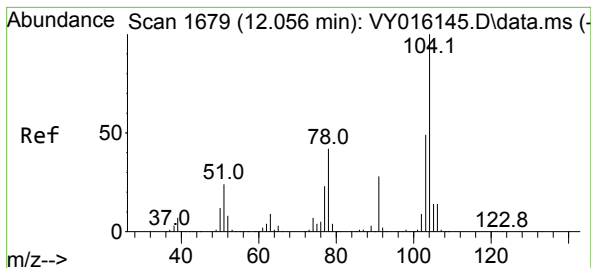
Tgt Ion:106 Resp: 143823
Ion Ratio Lower Upper
106 100
91 198.6 166.1 249.1



#69
o-Xylene
Concen: 38.249 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion:106 Resp: 86131
Ion Ratio Lower Upper
106 100
91 212.4 108.1 324.3





#70

Styrene

Concen: 1.751 ug/l

RT: 12.032 min Scan# 1

Delta R.T. -0.024 min

Lab File: VY016233.D

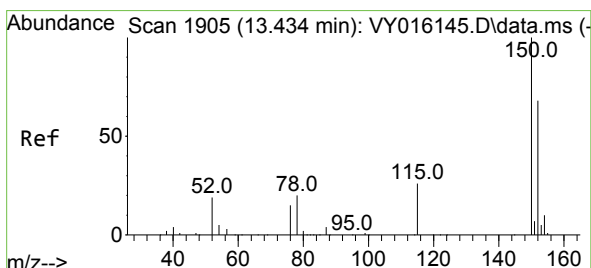
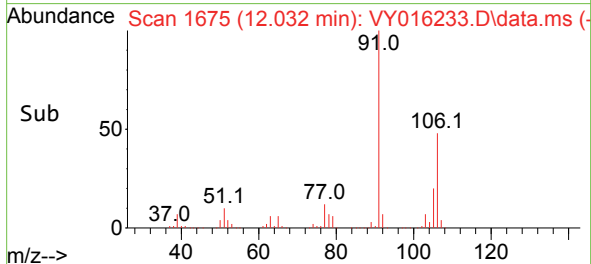
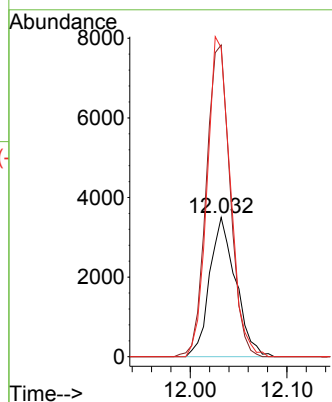
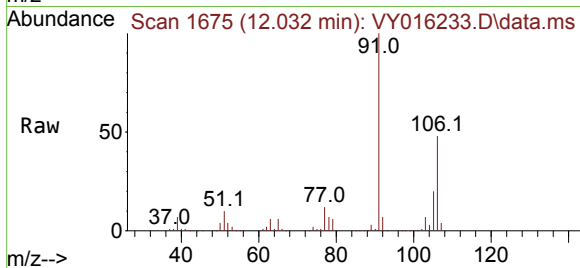
Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:104	Resp:	6555
Ion Ratio	Lower	Upper
104	100	
78	204.3	41.5 62.3#
103	204.2	44.6 67.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

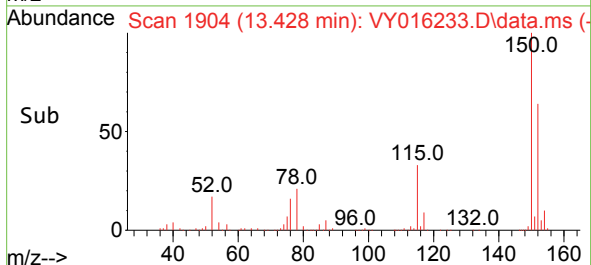
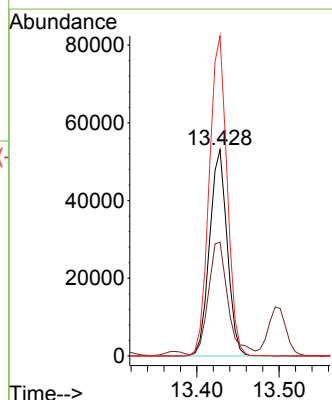
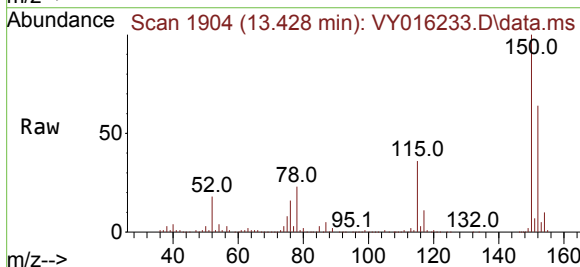
RT: 13.428 min Scan# 1904

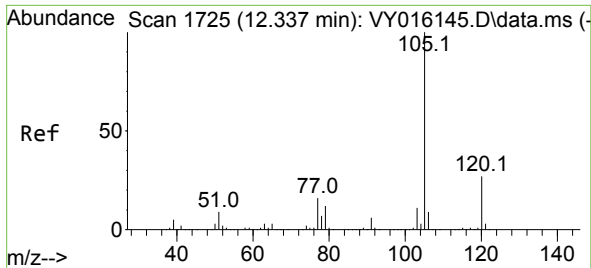
Delta R.T. -0.006 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

Tgt Ion:152	Resp:	78964
Ion Ratio	Lower	Upper
152	100	
115	60.0	28.8 86.5
150	157.0	0.0 348.8

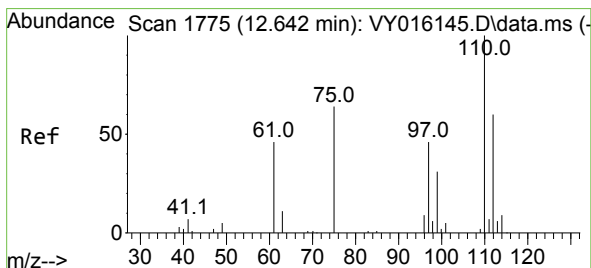
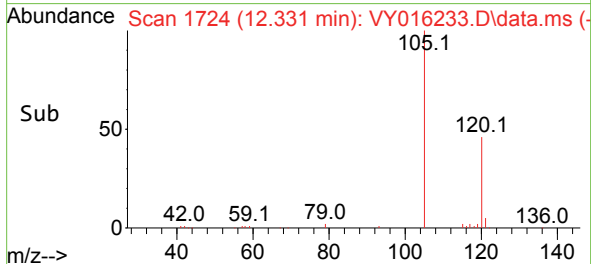
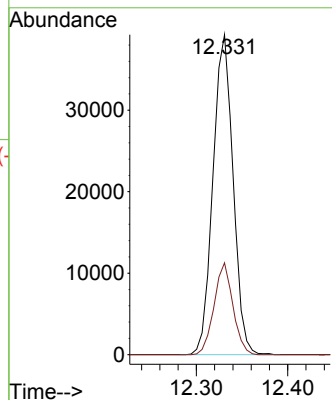
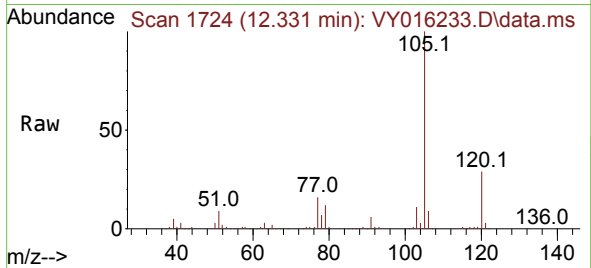




#73
Isopropylbenzene
Concen: 10.120 ug/l
RT: 12.331 min Scan# 1724
Delta R.T. -0.006 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

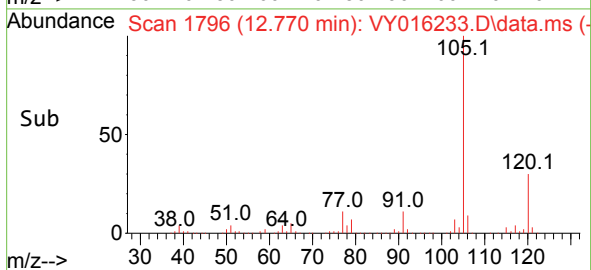
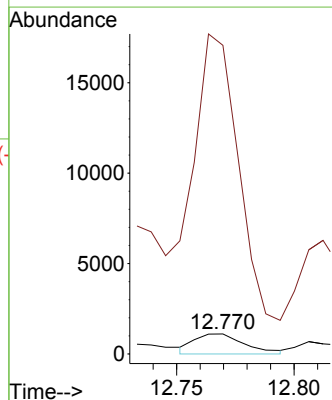
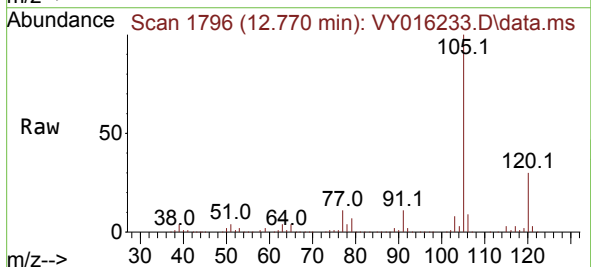
Instrument :
MSVOA_Y
ClientSampleId :

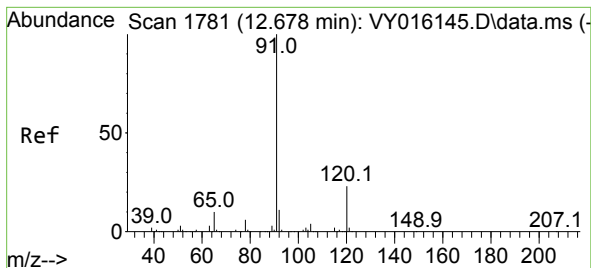
Tgt Ion:105 Resp: 59945
Ion Ratio Lower Upper
105 100
120 26.9 13.3 39.9



#76
1,2,3-Trichloropropane
Concen: 2.223 ug/l
RT: 12.770 min Scan# 1796
Delta R.T. 0.128 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 75 Resp: 1653
Ion Ratio Lower Upper
75 100
77 1584.2 0.0 0.0#





#78

n-propylbenzene

Concen: 1.461 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. -0.006 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_Y

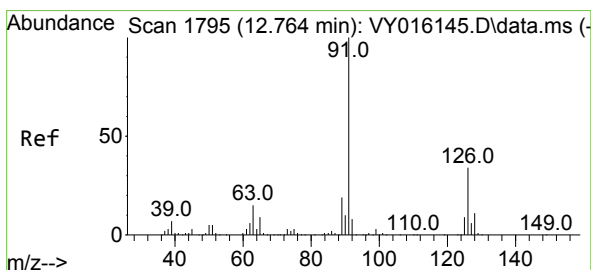
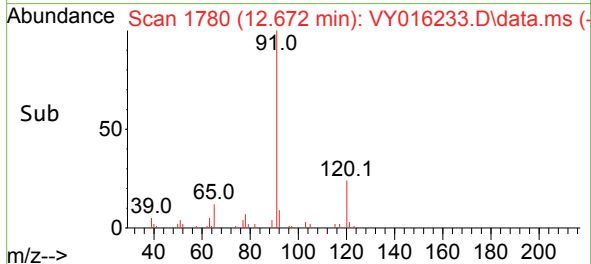
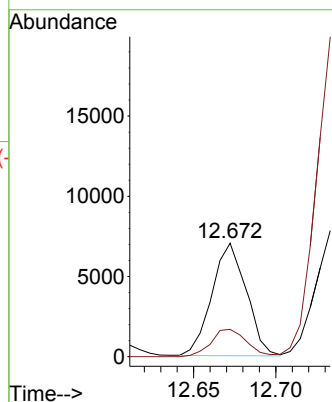
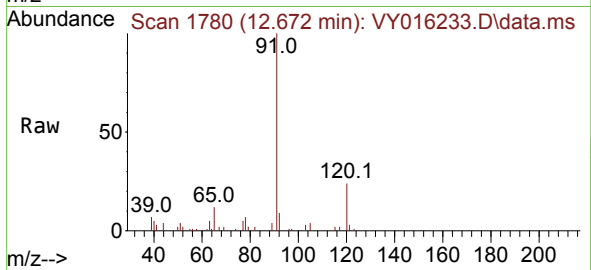
ClientSampleId :

Tgt Ion: 91 Resp: 10233

Ion Ratio Lower Upper

91 100

120 25.1 11.5 34.4



#79

2-Chlorotoluene

Concen: 6.742 ug/l

RT: 12.770 min Scan# 1796

Delta R.T. 0.006 min

Lab File: VY016233.D

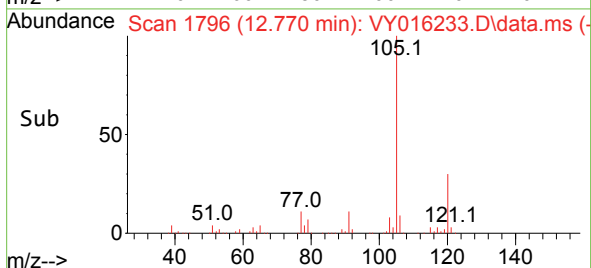
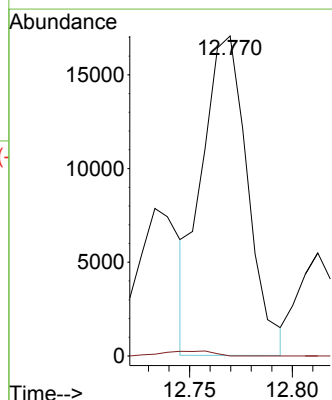
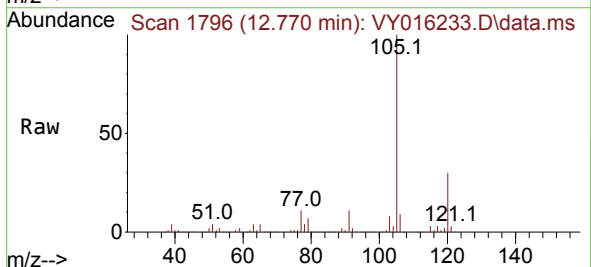
Acq: 06 Nov 2023 13:46

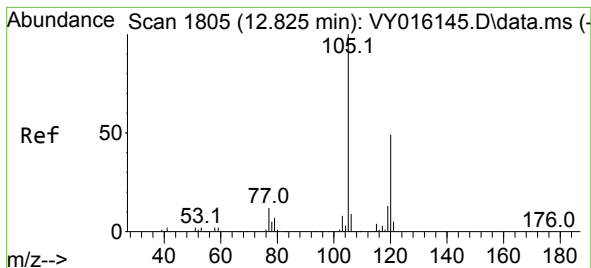
Tgt Ion: 91 Resp: 26332

Ion Ratio Lower Upper

91 100

126 1.7 17.3 51.7#





#80

1,3,5-Trimethylbenzene

Concen: 14.761 ug/l

RT: 12.812 min Scan# 1749

Delta R.T. -0.012 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_Y

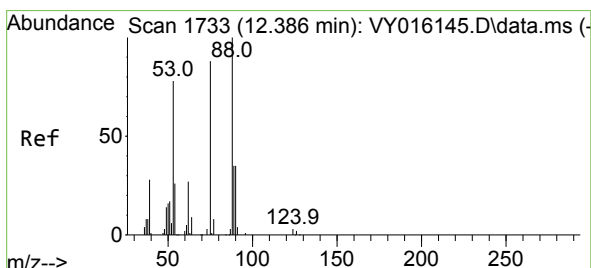
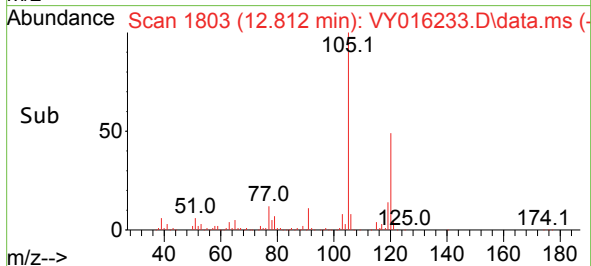
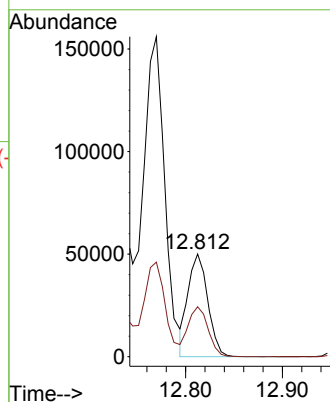
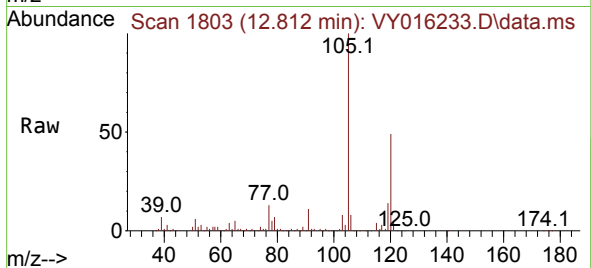
ClientSampleId :

Tgt Ion:105 Resp: 70837

Ion Ratio Lower Upper

105 100

120 49.2 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 113.857 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.097 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

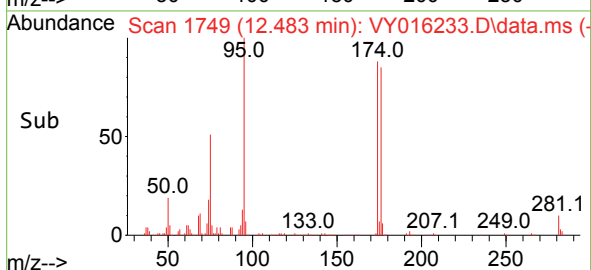
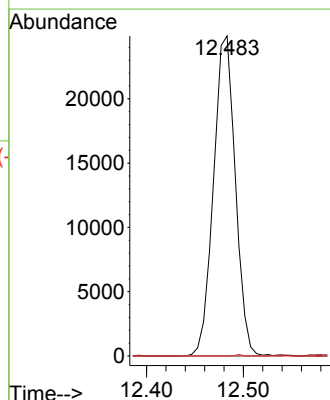
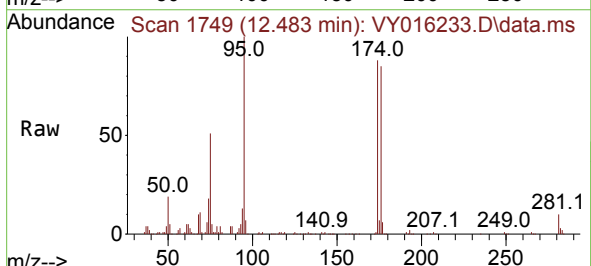
Tgt Ion: 75 Resp: 39048

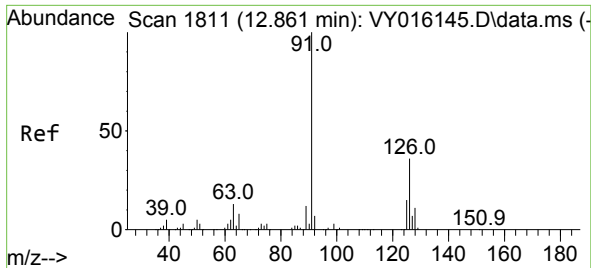
Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

89 0.1 37.4 56.0#

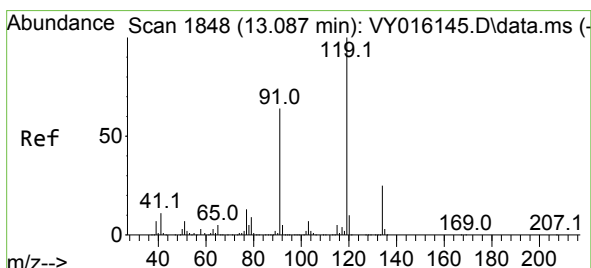
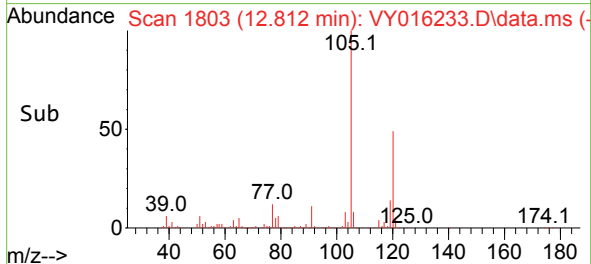
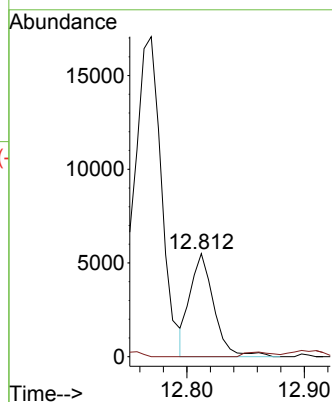
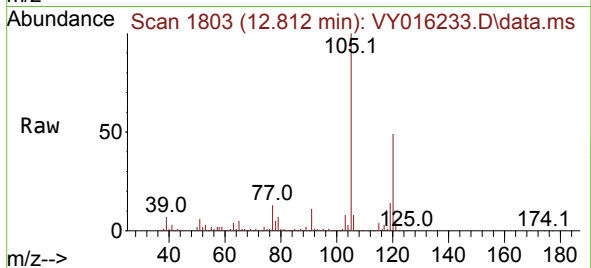




#82
4-Chlorotoluene
Concen: 1.931 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.049 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

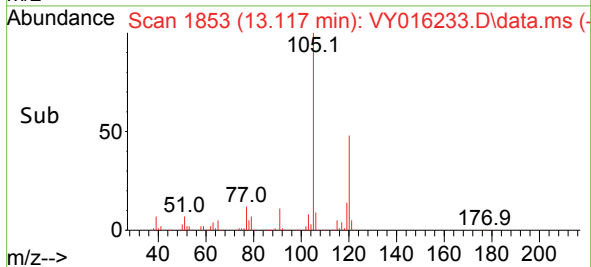
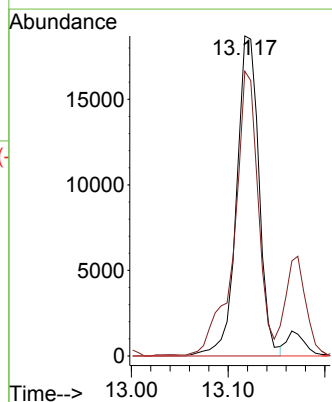
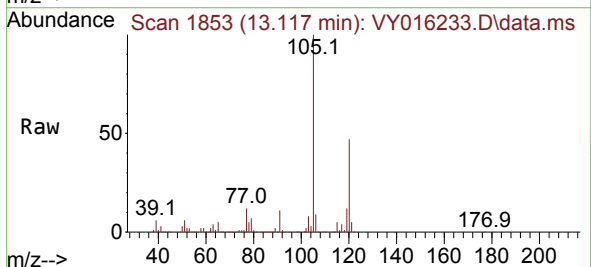
Instrument :
MSVOA_Y
ClientSampleId :

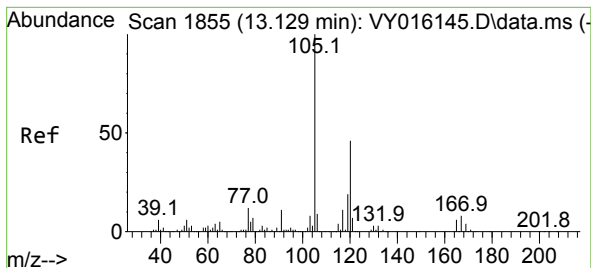
Tgt Ion: 91 Resp: 7744
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 7.008 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.030 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 119 Resp: 30090
Ion Ratio Lower Upper
119 100
91 95.0 32.9 98.6
134 0.0 13.0 38.9#





#84

1,2,4-Trimethylbenzene

Concen: 49.302 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.006 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_Y

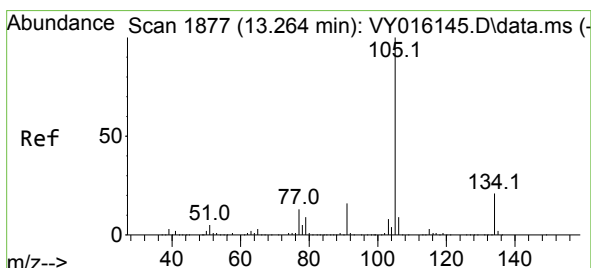
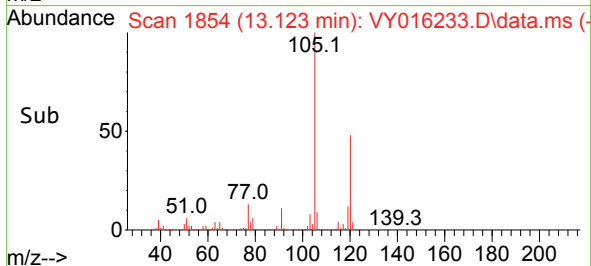
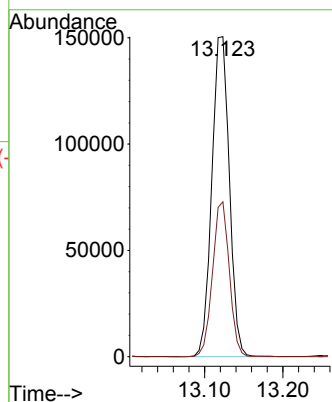
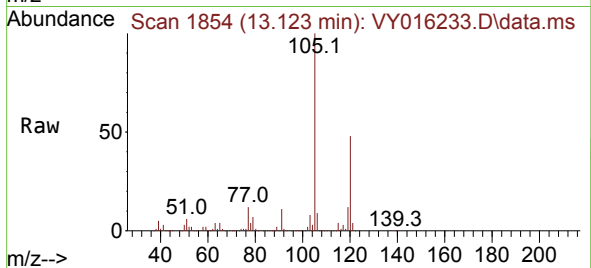
ClientSampleId :

Tgt Ion:105 Resp: 234109

Ion Ratio Lower Upper

105 100

120 46.4 22.2 66.6



#85

sec-Butylbenzene

Concen: 37.148 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.140 min

Lab File: VY016233.D

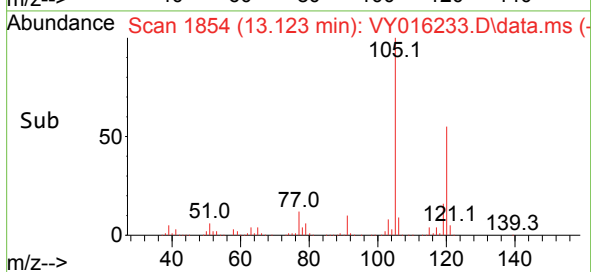
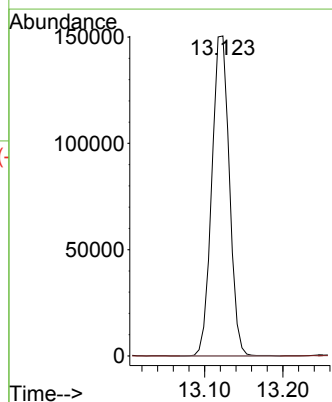
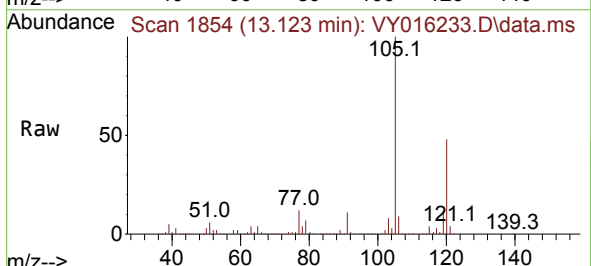
Acq: 06 Nov 2023 13:46

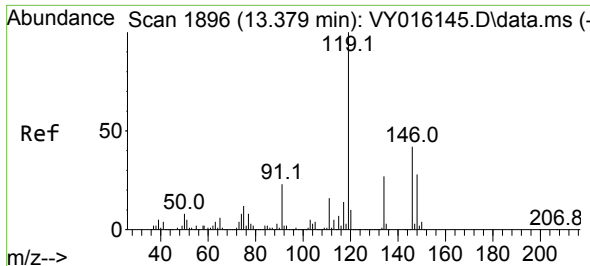
Tgt Ion:105 Resp: 234109

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#

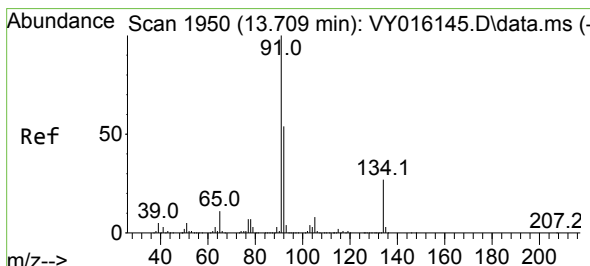
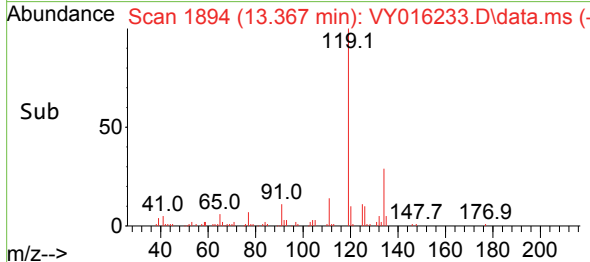
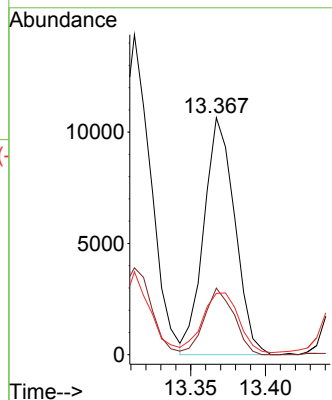
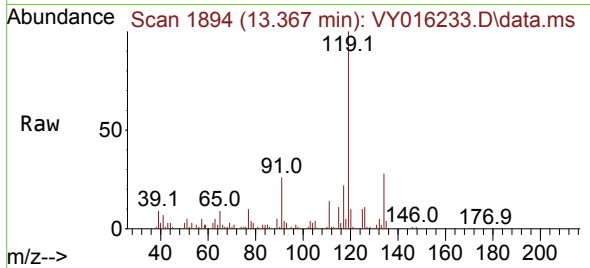




#86
p-Isopropyltoluene
Concen: 2.931 ug/l
RT: 13.367 min Scan# 119
Delta R.T. -0.012 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

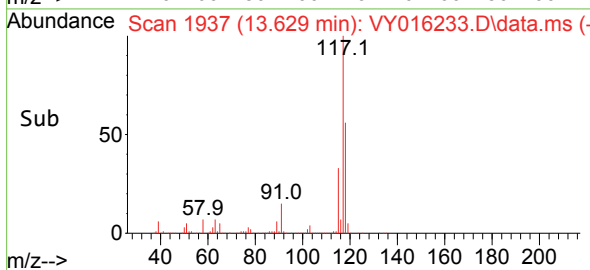
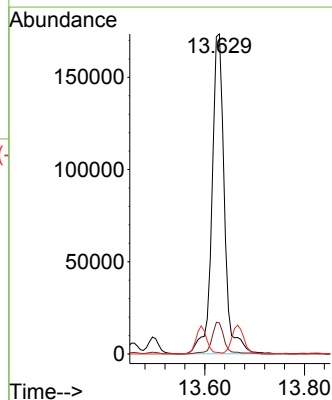
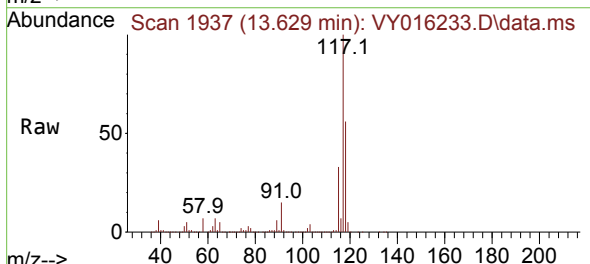
Instrument :
MSVOA_Y
ClientSampleId :

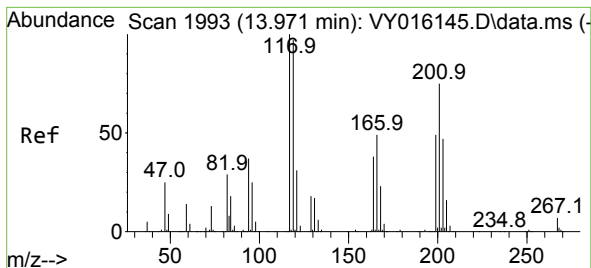
Tgt Ion:119 Resp: 15308
Ion Ratio Lower Upper
119 100
134 26.8 13.3 39.8
91 0.0 12.4 37.4#



#89
n-Butylbenzene
Concen: 62.817 ug/l
RT: 13.629 min Scan# 1937
Delta R.T. -0.079 min
Lab File: VY016233.D
Acq: 06 Nov 2023 13:46

Tgt Ion: 91 Resp: 301477
Ion Ratio Lower Upper
91 100
92 10.1 25.4 76.0#
134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 13.766 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. -0.000 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_Y

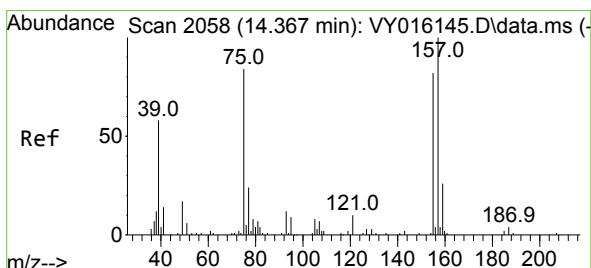
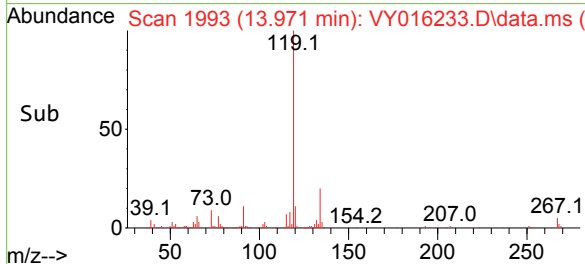
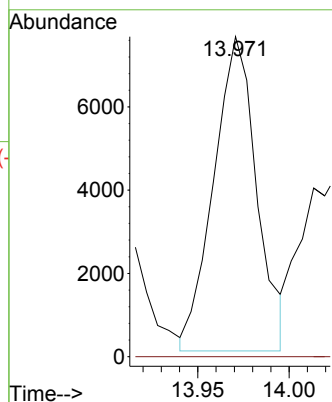
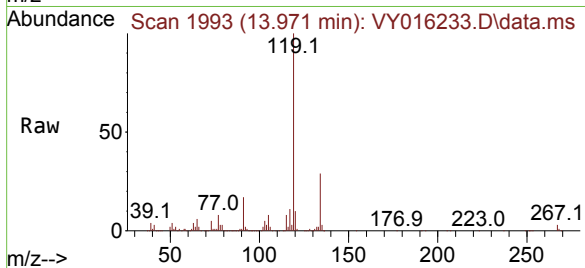
ClientSampleId :

Tgt Ion:117 Resp: 12391

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.328 ug/l

RT: 14.379 min Scan# 2060

Delta R.T. 0.012 min

Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

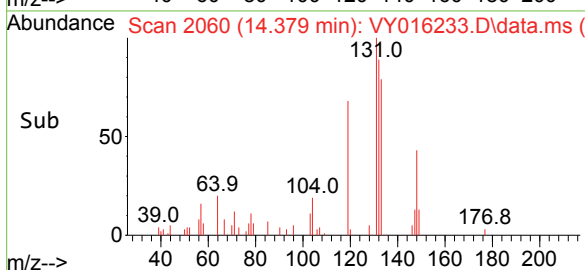
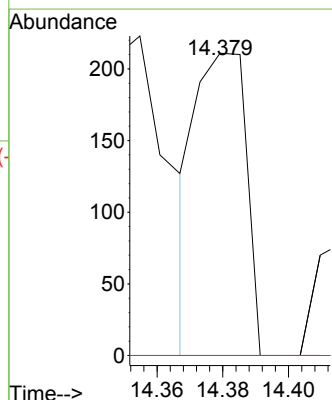
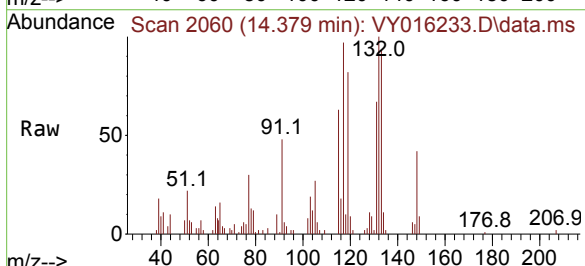
Tgt Ion: 75 Resp: 224

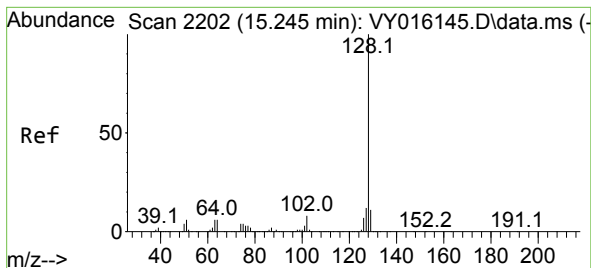
Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.6#

157 0.0 51.8 155.5#





#95

Naphthalene

Concen: 3289.877 ug/l

RT: 15.239 min Scan# 21

Delta R.T. -0.006 min

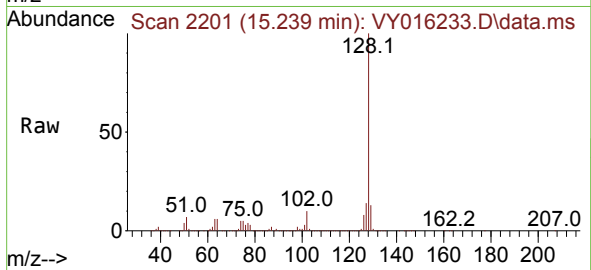
Lab File: VY016233.D

Acq: 06 Nov 2023 13:46

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 9040837

Ion Ratio Lower Upper

128 100

127 13.8 10.8 16.2

129 12.0 8.6 13.0

