

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091423\
 Data File : VY015551.D
 Acq On : 14 Sep 2023 22:11
 Operator : SY/MD
 Sample : 04409-12
 Misc : 5.72g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 15 04:07:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082923S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 31 20:01:47 2023
 Response via : Initial Calibration

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

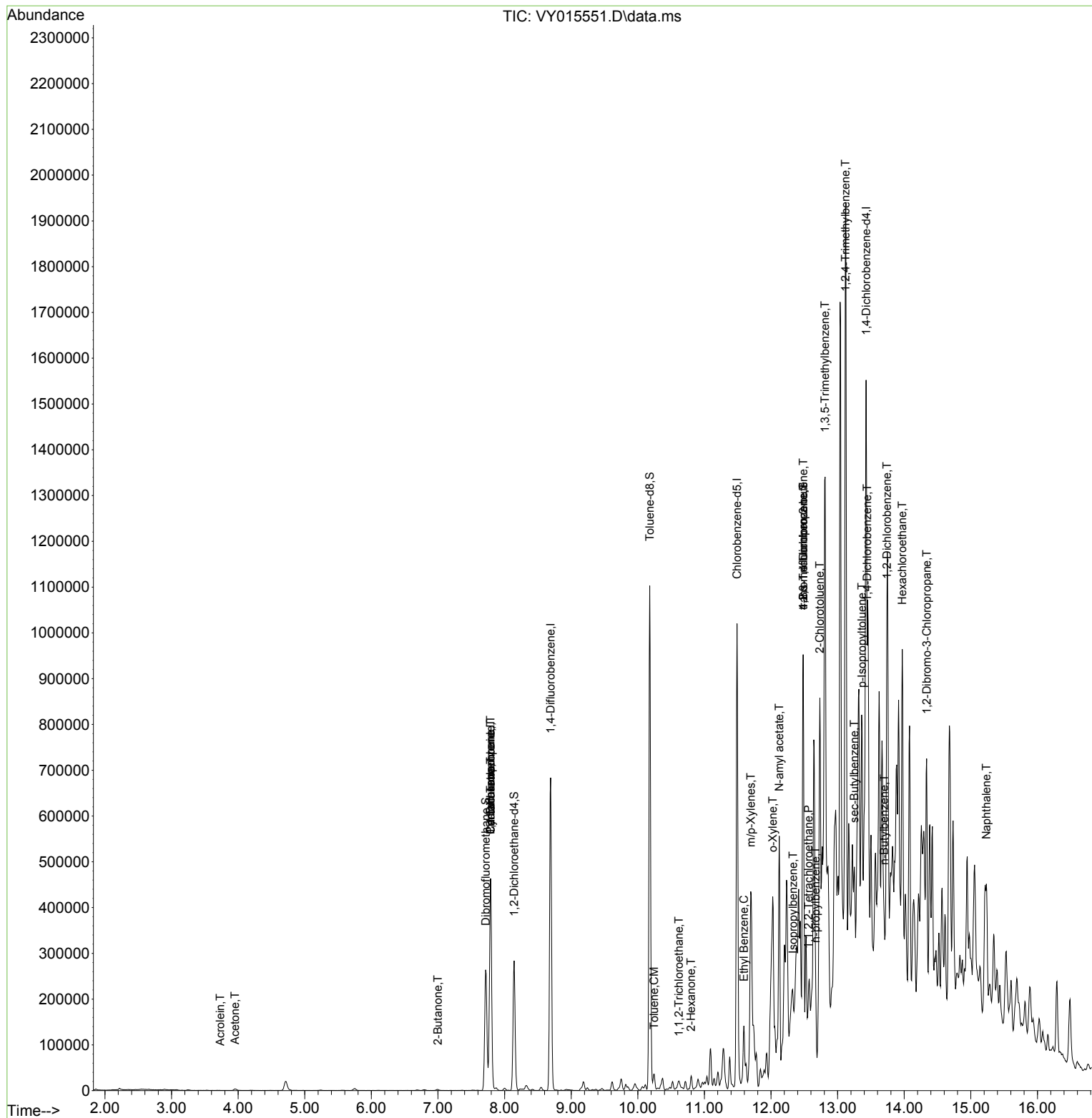
Internal Standards						
1) Pentafluorobenzene	7.789	168	352829	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	598778	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	536753	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	258090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	218088	57.661	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 115.320%	
35) Dibromofluoromethane	7.715	113	185233	53.709	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.420%	
50) Toluene-d8	10.178	98	689095	55.174	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 110.340%	
62) 4-Bromofluorobenzene	12.483	95	248100	53.509	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 107.020%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.954	59	188	Below Cal	#	89
13) Acrolein	3.728	56	23	11.667	ug/l #	14
16) Acetone	3.954	43	6704	4.247	ug/l	91
20) Methylene Chloride	4.716	84	15136	Below Cal		93
25) 2-Butanone	6.996	43	2473	1.104	ug/l #	61
31) Cyclohexane	7.789	56	8681	1.292	ug/l #	1
36) 1,1-Dichloropropene	7.789	75	26817	4.428	ug/l #	49
38) Carbon Tetrachloride	7.789	117	35045	5.603	ug/l #	16
52) Toluene	10.245	92	15071	1.392	ug/l	95
55) 1,1,2-Trichloroethane	10.617	97	6093	1.598	ug/l #	20
59) 2-Hexanone	10.800	43	11980	3.401	ug/l #	32
67) Ethyl Benzene	11.593	91	85072	4.096	ug/l	97
68) m/p-Xylenes	11.696	106	115280	14.320	ug/l	97
69) o-Xylene	12.026	106	87783	11.410	ug/l	99
73) Isopropylbenzene	12.330	105	23918	1.234	ug/l	98
74) N-amyl acetate	12.123	43	104210	16.000	ug/l #	63
75) 1,1,2,2-Tetrachloroethane	12.562	83	14398	3.111	ug/l #	88
76) 1,2,3-Trichloropropane	12.483	75	129815	37.929	ug/l #	100
78) n-propylbenzene	12.672	91	90901	3.875	ug/l	98
79) 2-Chlorotoluene	12.733	91	44939	3.416	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.812	105	252694	15.584	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.483	75	129815	83.668	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.117	105	868715	53.958	ug/l	98
85) sec-Butylbenzene	13.251	105	40840	1.928	ug/l #	70
86) p-Isopropyltoluene	13.367	119	58533	3.297	ug/l	97
88) 1,4-Dichlorobenzene	13.446	146	20772	2.267	ug/l #	7
89) n-Butylbenzene	13.696	91	34086	2.040	ug/l #	56
90) Hexachloroethane	13.970	117	24556	7.733	ug/l #	8
91) 1,2-Dichlorobenzene	13.739	146	56103	6.782	ug/l #	57
92) 1,2-Dibromo-3-Chloropr...	14.336	75	1834	2.003	ug/l #	3
95) Naphthalene	15.232	128	178199	13.848	ug/l	99

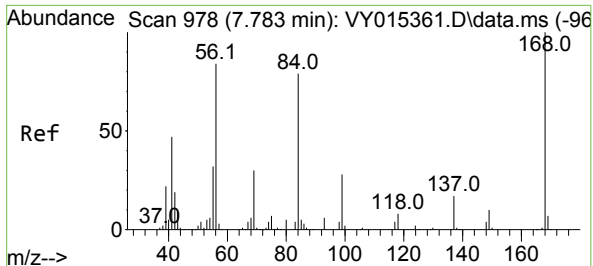
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 31 20:01:47 2023
Response via : Initial Calibration

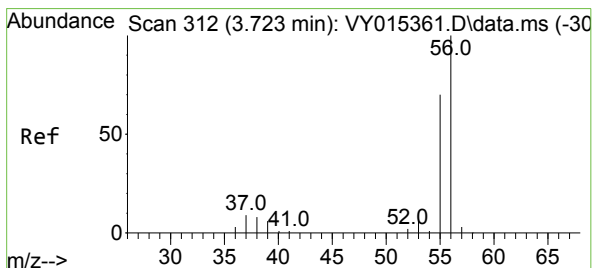
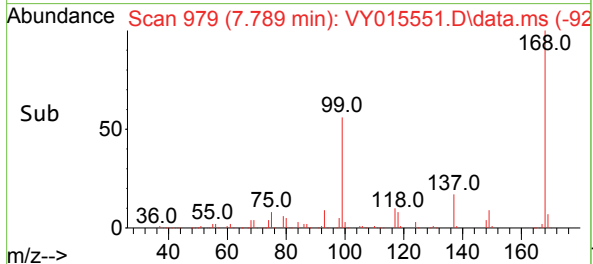
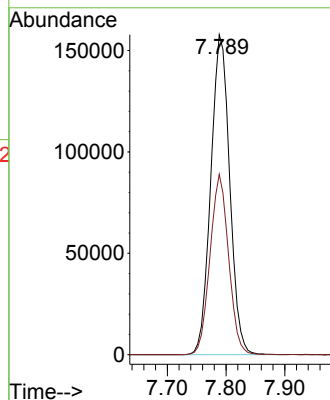
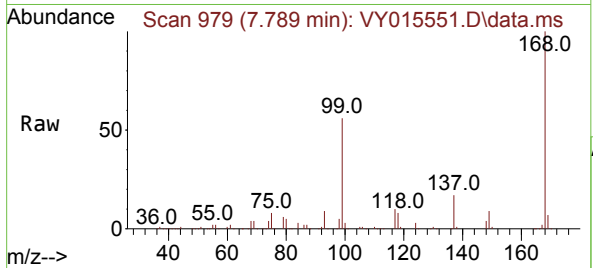




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

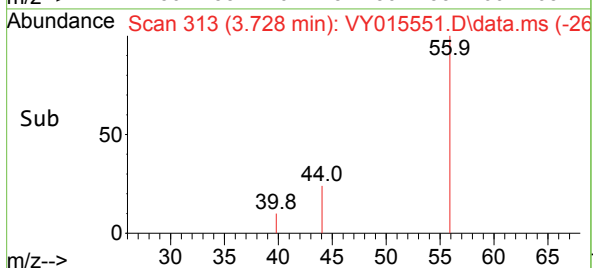
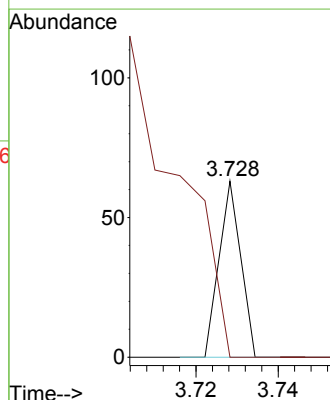
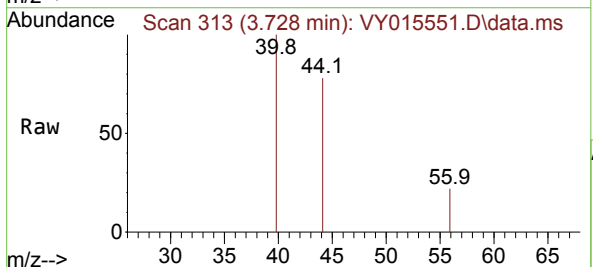
Instrument :
MSVOA_Y
ClientSampleId :

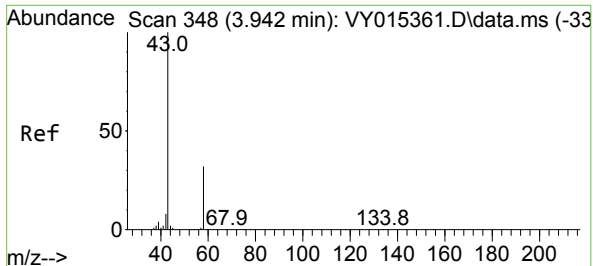
Tgt Ion:168 Resp: 352829
Ion Ratio Lower Upper
168 100
99 56.4 43.4 65.0



#13
Acrolein
Concen: 11.667 ug/l
RT: 3.728 min Scan# 313
Delta R.T. 0.005 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Tgt Ion: 56 Resp: 23
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#

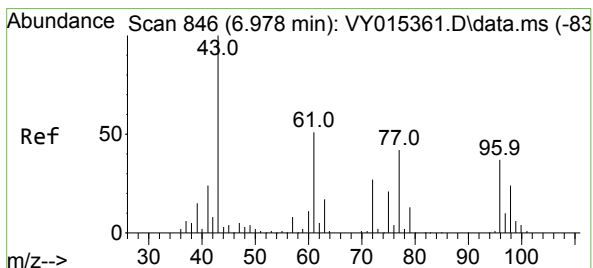
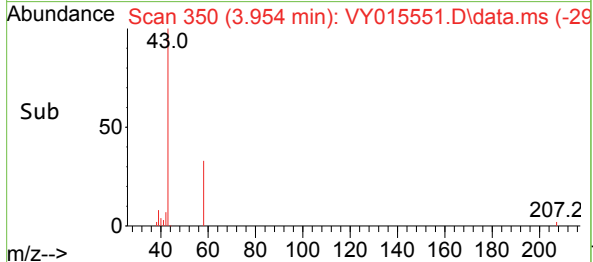
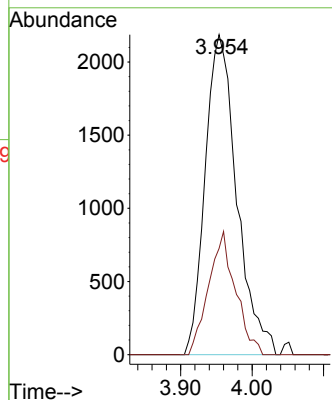
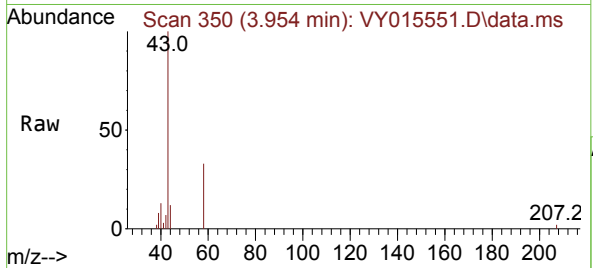




#16
Acetone
Concen: 4.247 ug/l
RT: 3.954 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

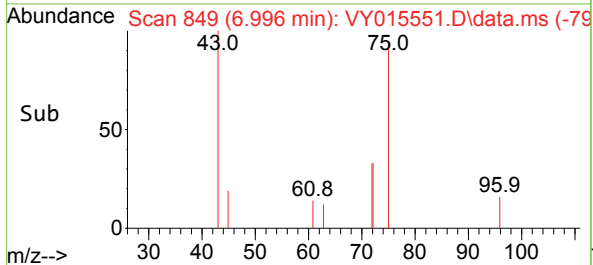
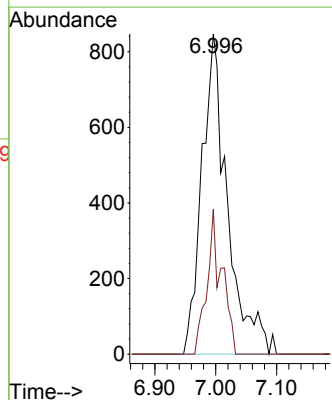
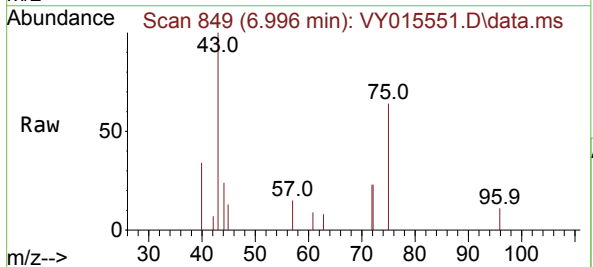
Instrument :
MSVOA_Y
ClientSampleId :

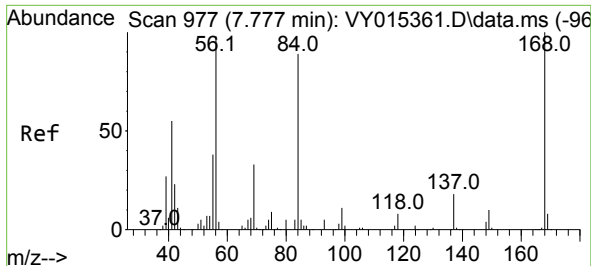
Tgt Ion: 43 Resp: 6704
Ion Ratio Lower Upper
43 100
58 33.2 22.7 34.1



#25
2-Butanone
Concen: 1.104 ug/l
RT: 6.996 min Scan# 849
Delta R.T. 0.018 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

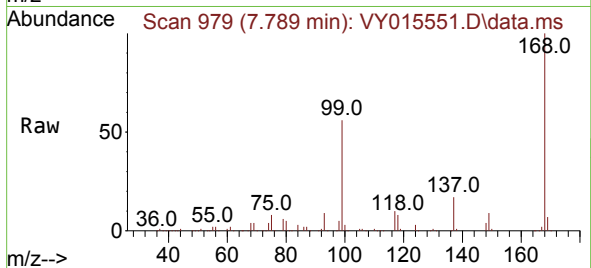
Tgt Ion: 43 Resp: 2473
Ion Ratio Lower Upper
43 100
72 45.2 20.5 30.7#



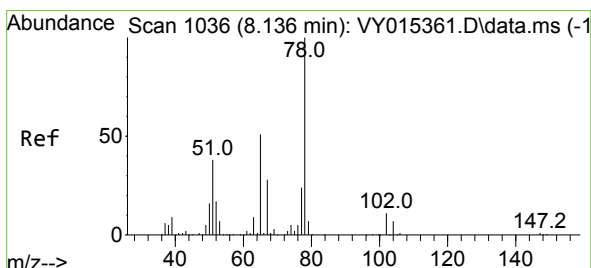
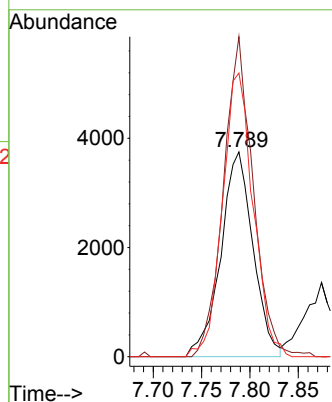
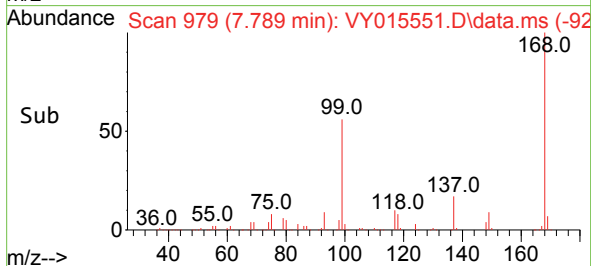


#31
Cyclohexane
Concen: 1.292 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Instrument :
MSVOA_Y
ClientSampleId :

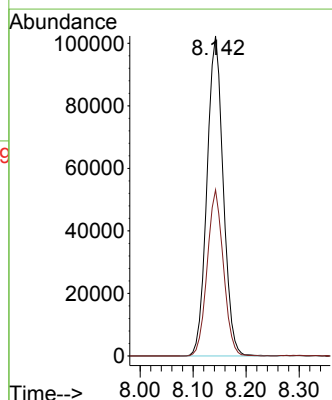
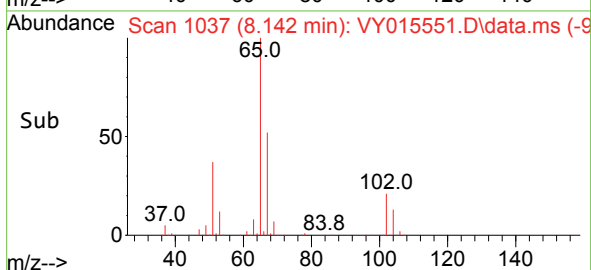
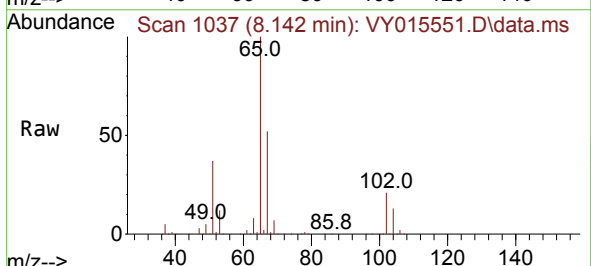


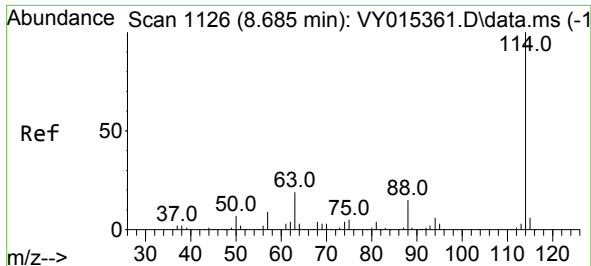
Tgt Ion: 56 Resp: 8681
Ion Ratio Lower Upper
56 100
69 156.2 27.8 41.6#
84 138.5 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 57.661 ug/l
RT: 8.142 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Tgt Ion: 65 Resp: 218088
Ion Ratio Lower Upper
65 100
67 51.7 0.0 101.8

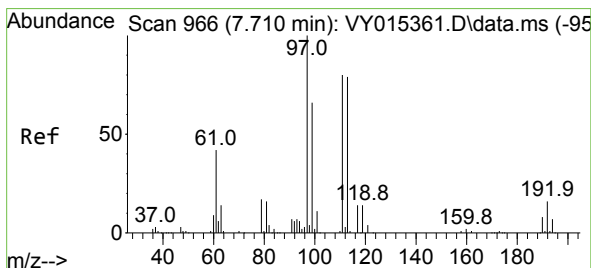
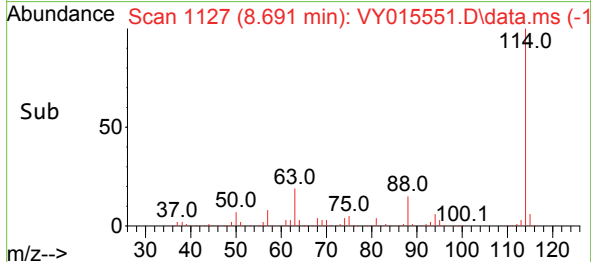
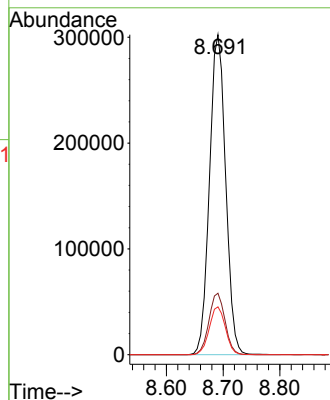
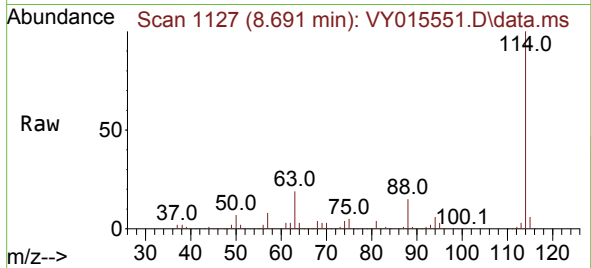




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

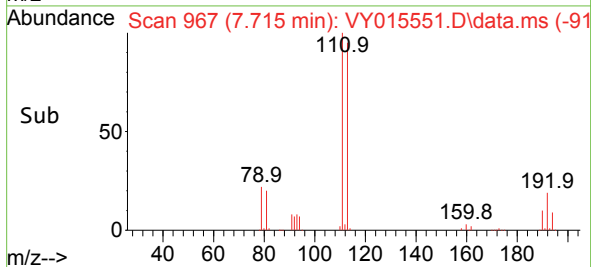
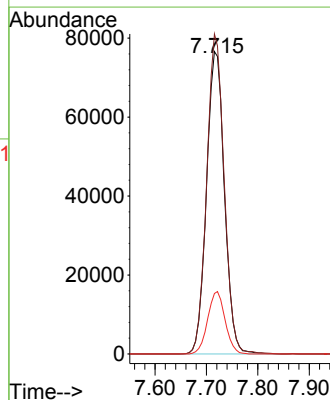
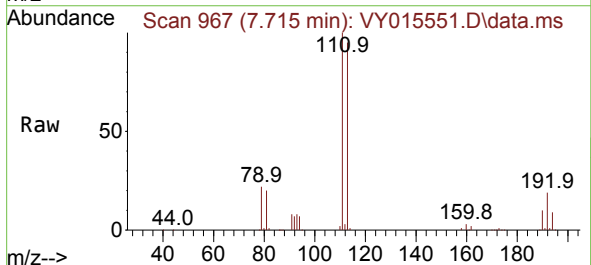
Instrument :
MSVOA_Y
ClientSampleId :

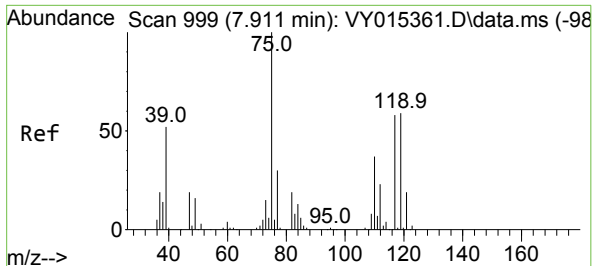
Tgt Ion:114 Resp: 598778
Ion Ratio Lower Upper
114 100
63 19.2 0.0 42.4
88 14.9 0.0 30.6



#35
Dibromofluoromethane
Concen: 53.709 ug/l
RT: 7.715 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

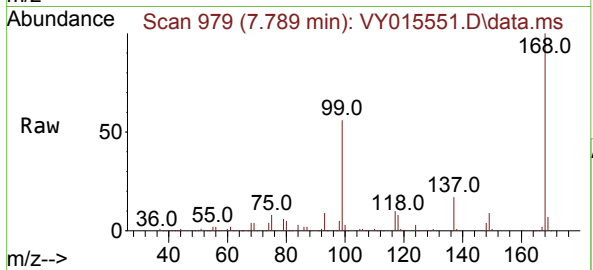
Tgt Ion:113 Resp: 185233
Ion Ratio Lower Upper
113 100
111 103.3 81.3 121.9
192 20.1 16.9 25.3



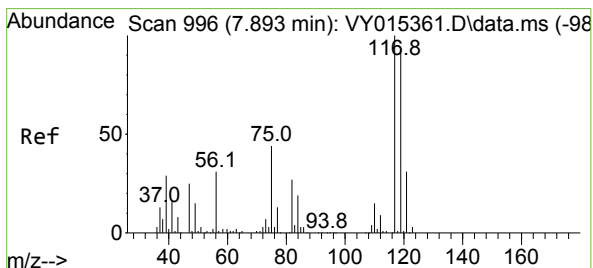
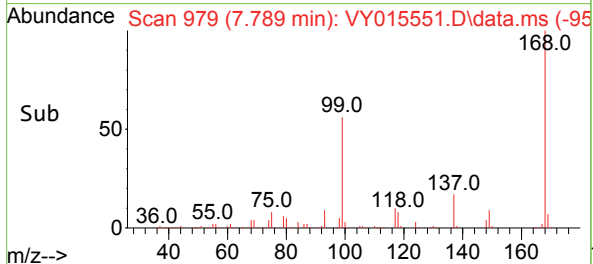
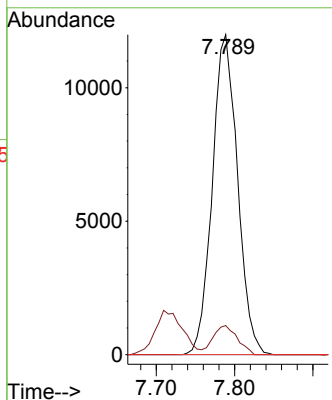


#36
1,1-Dichloropropene
Concen: 4.428 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Instrument :
MSVOA_Y
ClientSampleId :

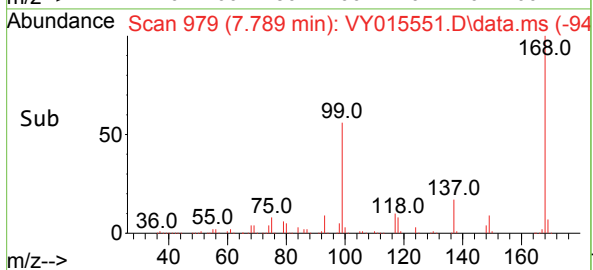
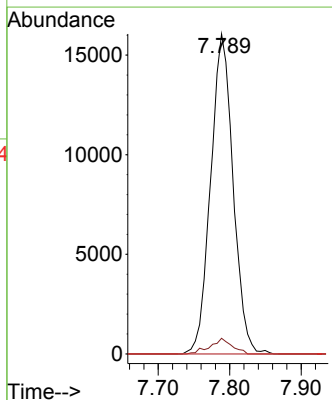
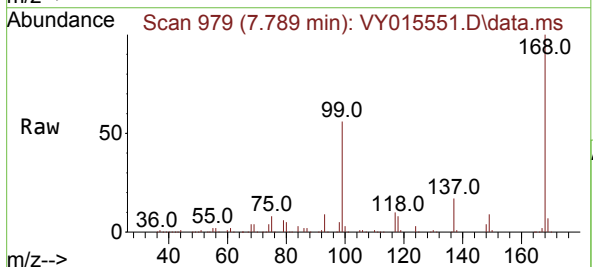


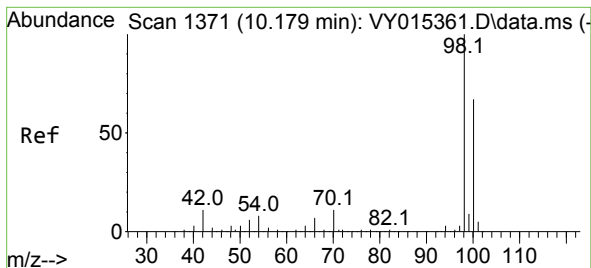
Tgt Ion: 75 Resp: 26817
Ion Ratio Lower Upper
75 100
110 8.7 17.8 53.5#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 5.603 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.104 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Tgt Ion: 117 Resp: 35045
Ion Ratio Lower Upper
117 100
119 4.9 76.4 114.6#
121 0.0 25.8 38.6#





#50

Toluene-d8

Concen: 55.174 ug/l

RT: 10.178 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

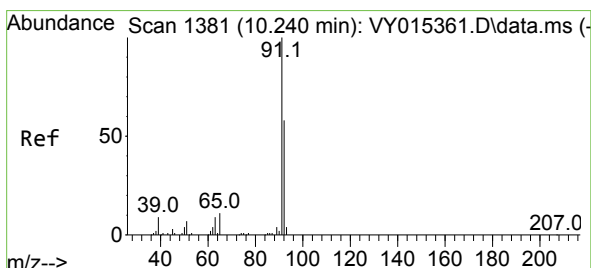
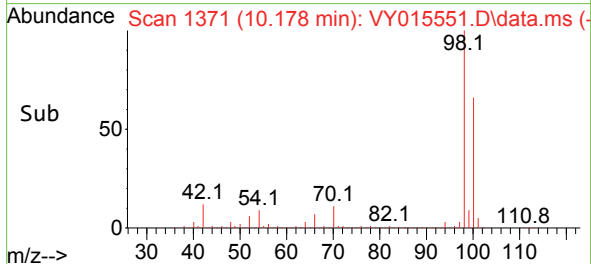
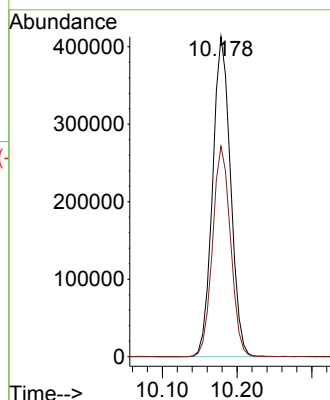
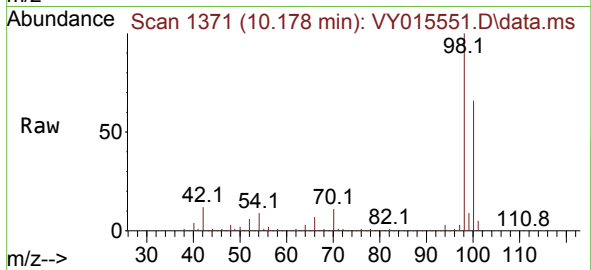
ClientSampleId :

Tgt Ion: 98 Resp: 689095

Ion Ratio Lower Upper

98 100

100 65.8 50.1 75.1



#52

Toluene

Concen: 1.392 ug/l

RT: 10.245 min Scan# 1382

Delta R.T. 0.006 min

Lab File: VY015551.D

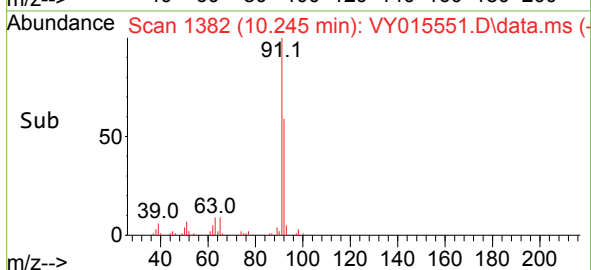
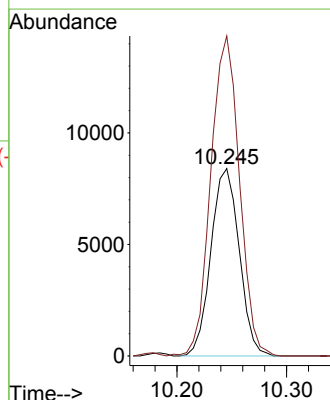
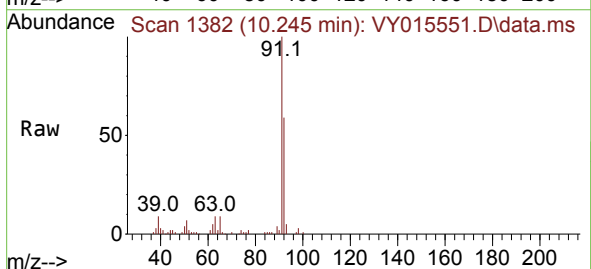
Acq: 14 Sep 2023 22:11

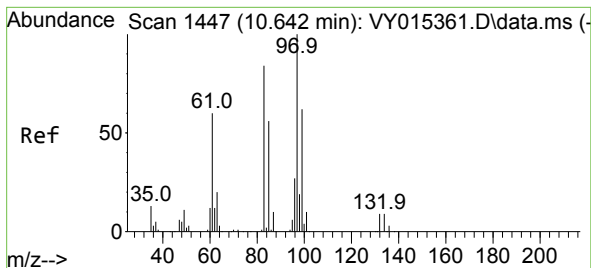
Tgt Ion: 92 Resp: 15071

Ion Ratio Lower Upper

92 100

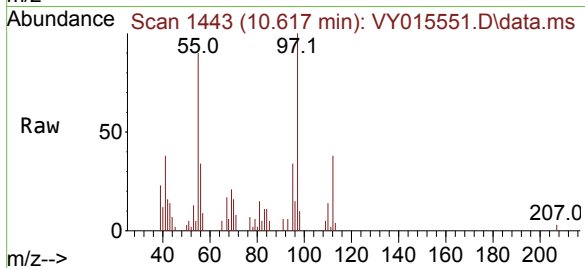
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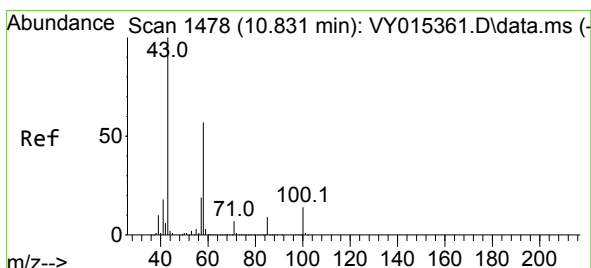
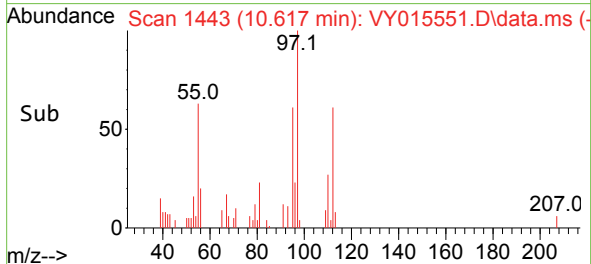
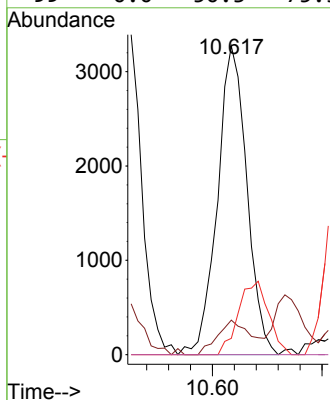


#55
1,1,2-Trichloroethane
Concen: 1.598 ug/l
RT: 10.617 min Scan# 1443
Delta R.T. -0.025 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Instrument :
MSVOA_Y
ClientSampleId :

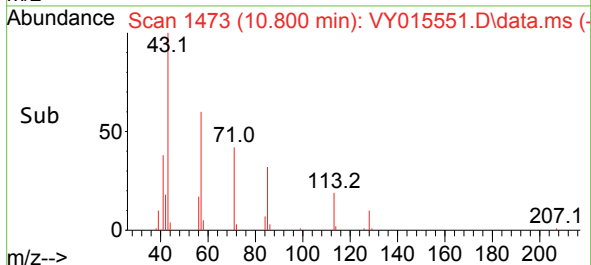
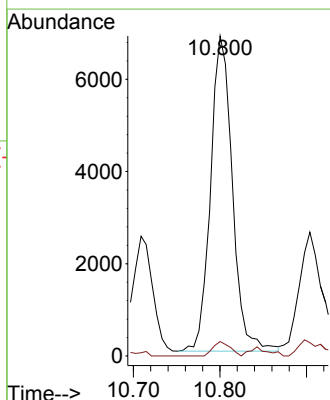
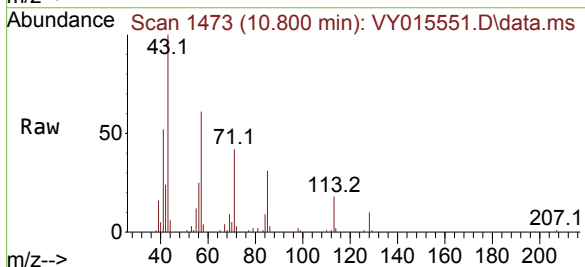


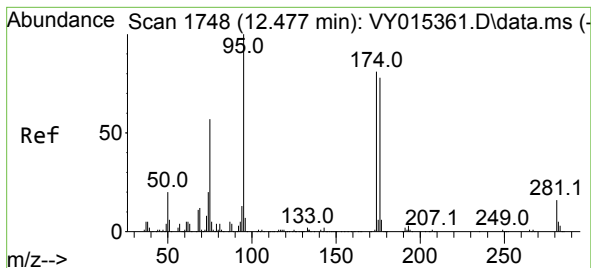
Tgt Ion: 97	Resp: 6093
Ion Ratio	Lower Upper
97 100	
83 9.2	72.0 108.0#
85 5.3	45.4 68.0#
99 0.0	50.3 75.5#



#59
2-Hexanone
Concen: 3.401 ug/l
RT: 10.800 min Scan# 1473
Delta R.T. -0.031 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Tgt Ion: 43	Resp: 11980
Ion Ratio	Lower Upper
43 100	
58 3.5	25.1 75.3#

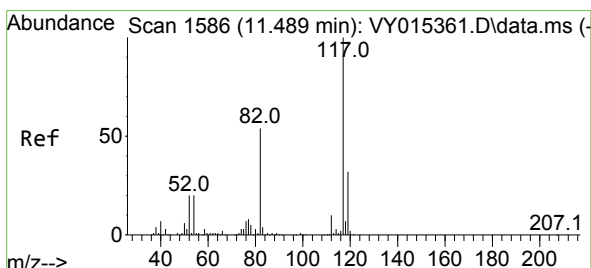
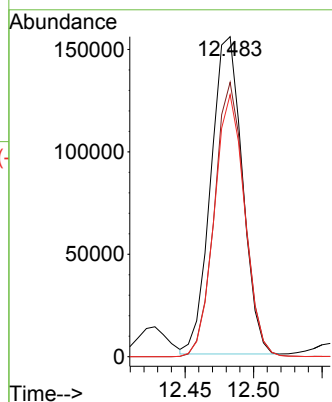
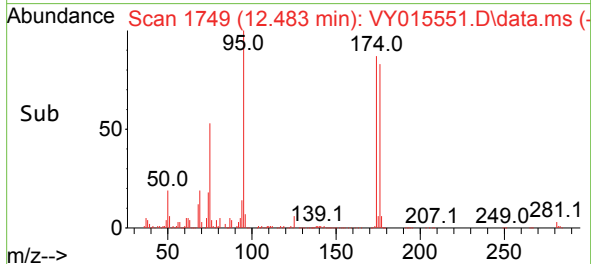
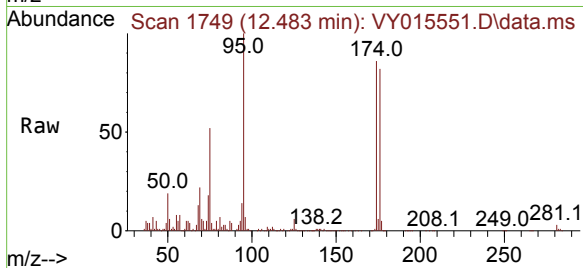




#62
4-Bromofluorobenzene
Concen: 53.509 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

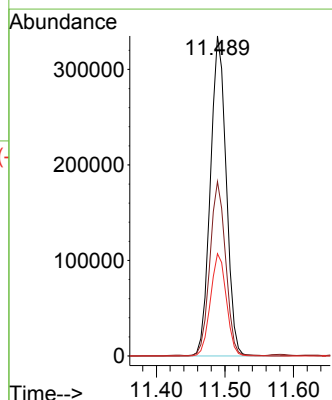
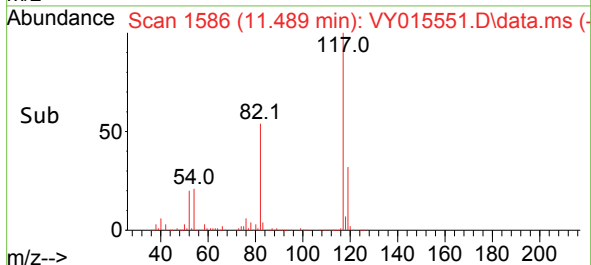
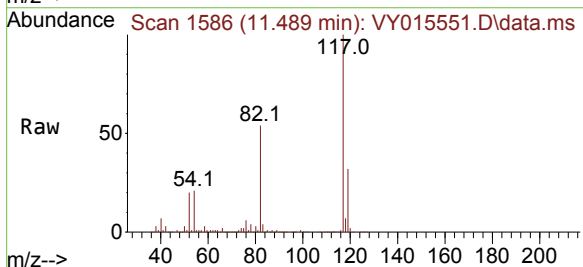
Instrument :
MSVOA_Y
ClientSampleId :

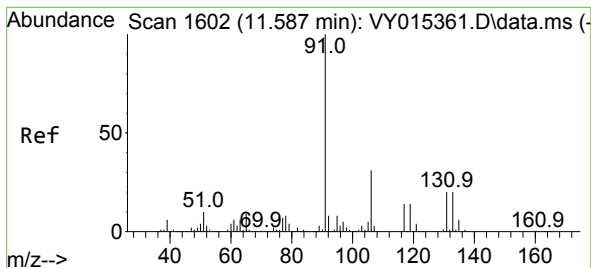
Tgt Ion: 95 Resp: 248100
Ion Ratio Lower Upper
95 100
174 82.8 0.0 178.2
176 79.8 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. -0.000 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Tgt Ion: 117 Resp: 536753
Ion Ratio Lower Upper
117 100
82 54.3 43.4 65.0
119 32.0 26.3 39.5





#67

Ethyl Benzene

Concen: 4.096 ug/l

RT: 11.593 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

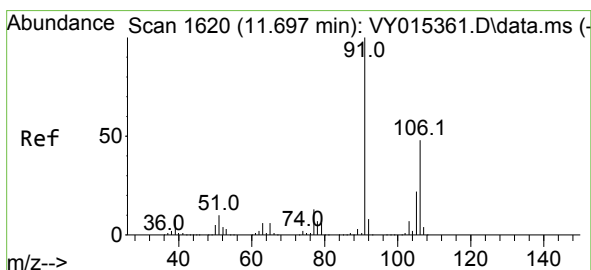
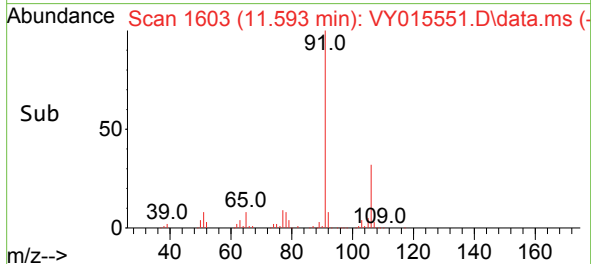
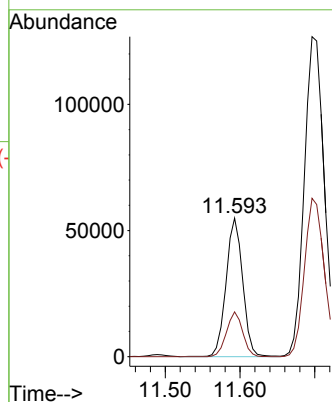
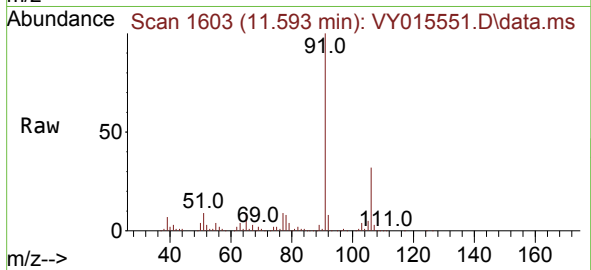
ClientSampleId :

Tgt Ion: 91 Resp: 85072

Ion Ratio Lower Upper

91 100

106 32.3 24.6 36.8



#68

m/p-Xylenes

Concen: 14.320 ug/l

RT: 11.696 min Scan# 1620

Delta R.T. -0.006 min

Lab File: VY015551.D

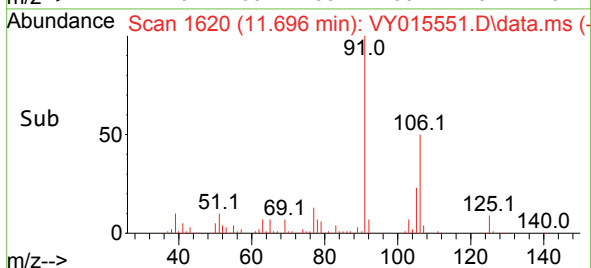
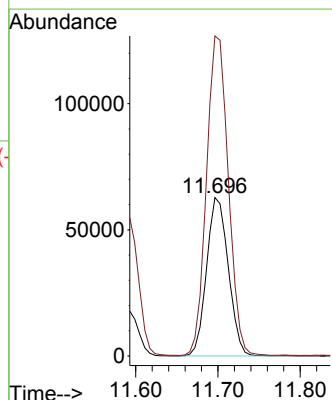
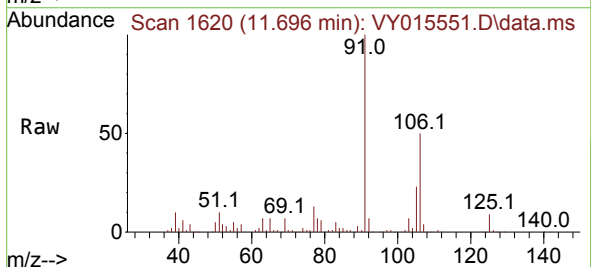
Acq: 14 Sep 2023 22:11

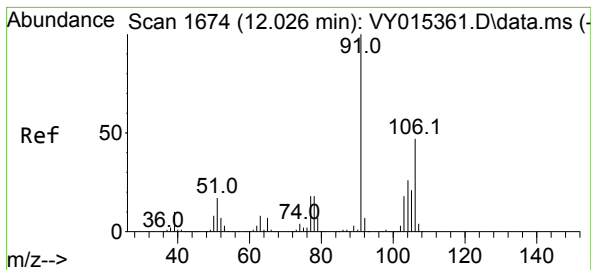
Tgt Ion: 106 Resp: 115280

Ion Ratio Lower Upper

106 100

91 202.6 166.1 249.1





#69

o-Xylene

Concen: 11.410 ug/l

RT: 12.026 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

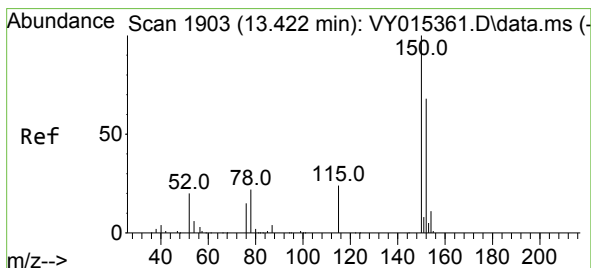
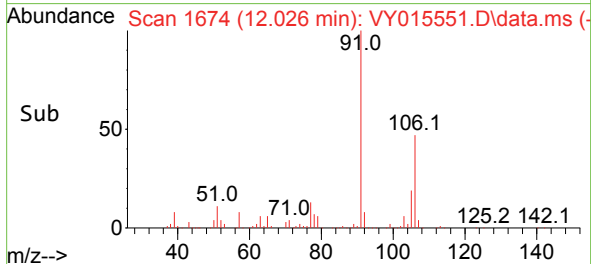
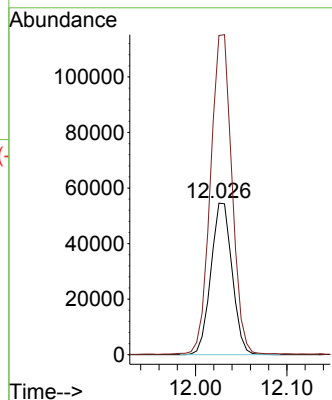
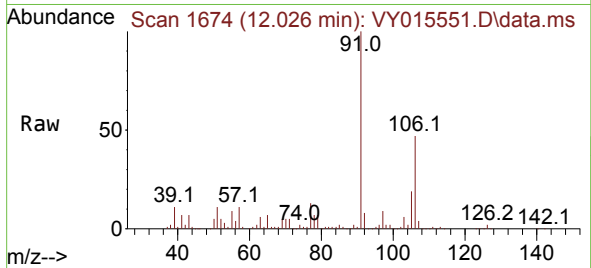
ClientSampleId :

Tgt Ion:106 Resp: 87783

Ion Ratio Lower Upper

106 100

91 213.9 108.1 324.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

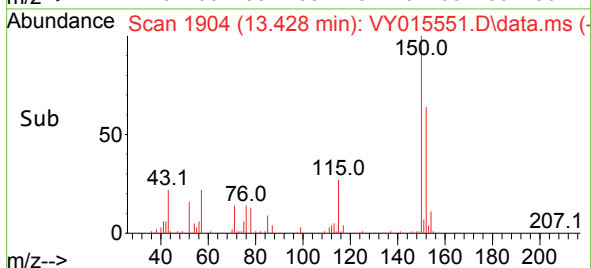
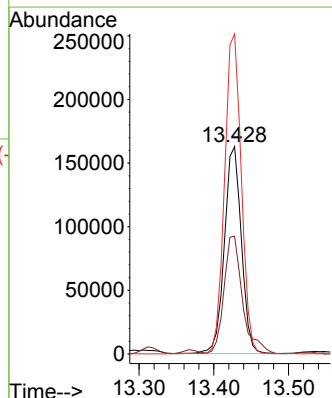
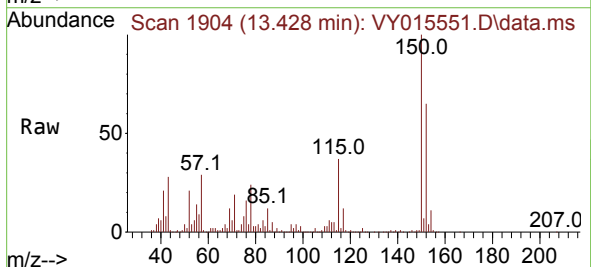
Tgt Ion:152 Resp: 258090

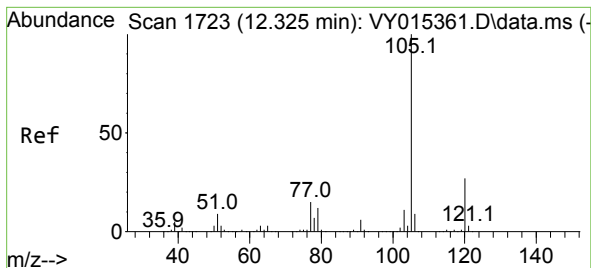
Ion Ratio Lower Upper

152 100

115 61.7 28.8 86.5

150 151.4 0.0 348.8





#73

Isopropylbenzene

Concen: 1.234 ug/l

RT: 12.330 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

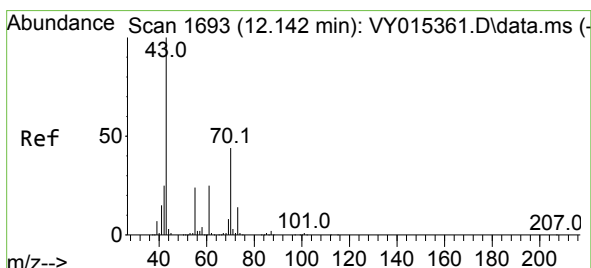
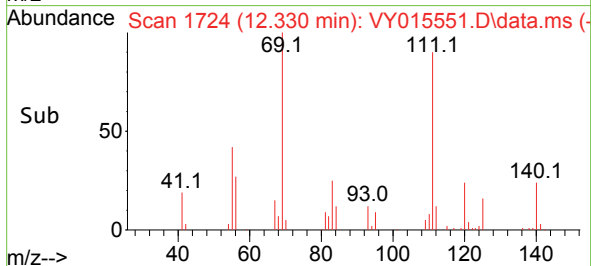
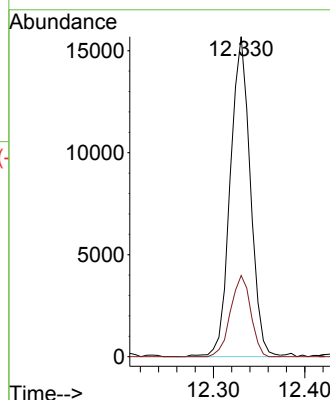
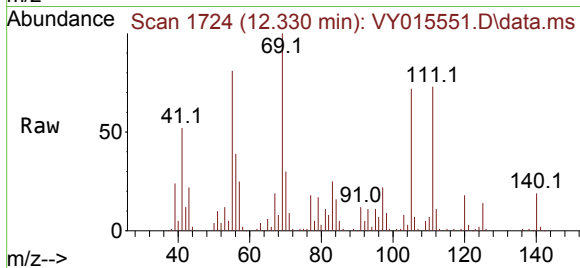
ClientSampleId :

Tgt Ion:105 Resp: 23918

Ion Ratio Lower Upper

105 100

120 25.5 13.3 39.9



#74

N-ethyl acetate

Concen: 16.000 ug/l

RT: 12.123 min Scan# 1690

Delta R.T. -0.019 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Tgt Ion: 43 Resp: 104210

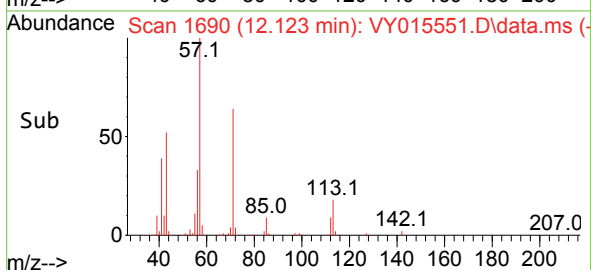
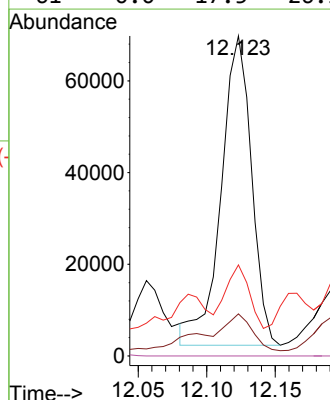
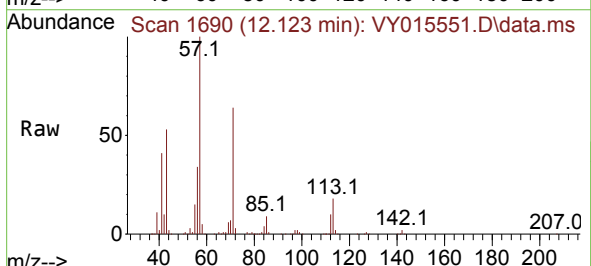
Ion Ratio Lower Upper

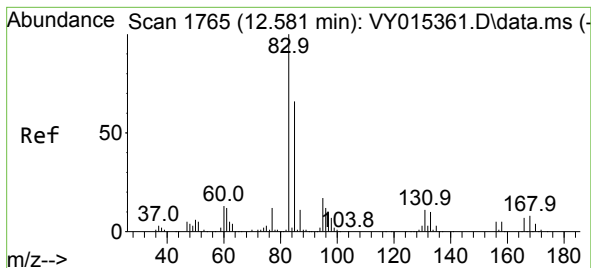
43 100

70 10.7 29.7 44.5#

55 15.5 18.3 27.5#

61 0.0 17.5 26.3#

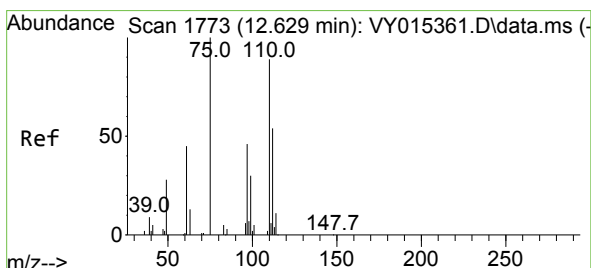
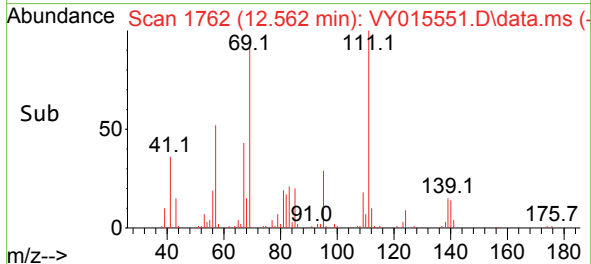
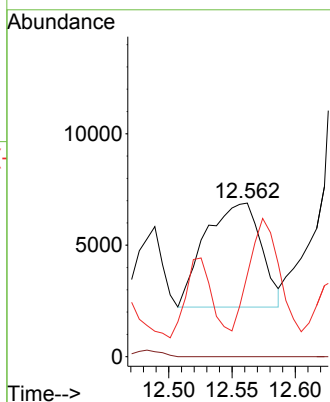
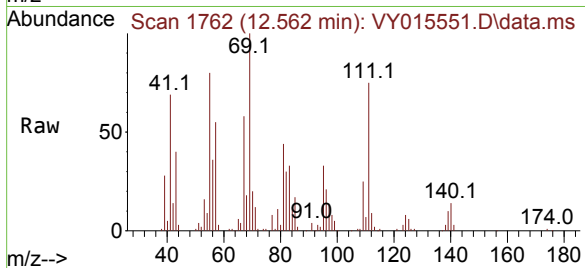




#75
1,1,2,2-Tetrachloroethane
Concen: 3.111 ug/l
RT: 12.562 min Scan# 1762
Delta R.T. -0.019 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

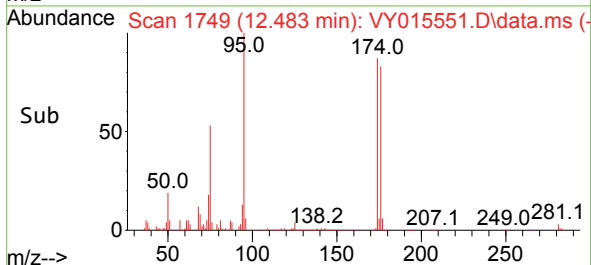
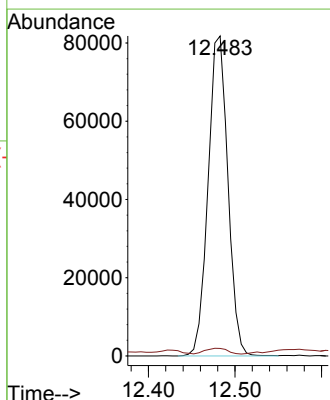
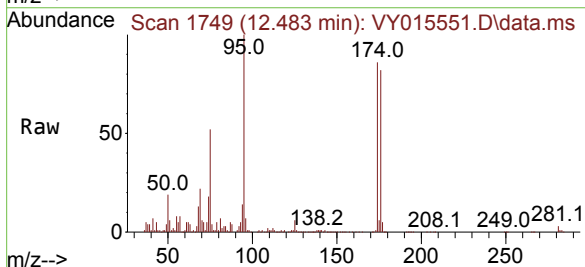
Instrument :
MSVOA_Y
ClientSampleId :

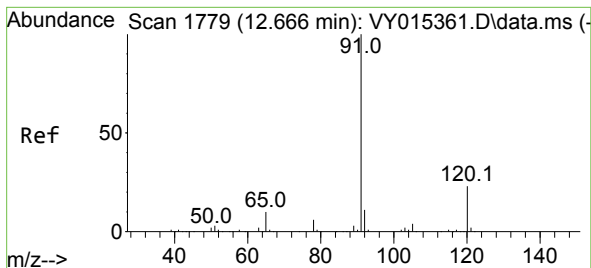
Tgt Ion: 83 Resp: 14398
Ion Ratio Lower Upper
83 100
131 0.0 5.4 16.2#
85 56.6 31.8 95.4



#76
1,2,3-Trichloropropane
Concen: 37.929 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.147 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Tgt Ion: 75 Resp: 129815
Ion Ratio Lower Upper
75 100
77 2.0 0.0 0.0#





#78

n-propylbenzene

Concen: 3.875 ug/l

RT: 12.672 min Scan# 1779

Delta R.T. 0.006 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

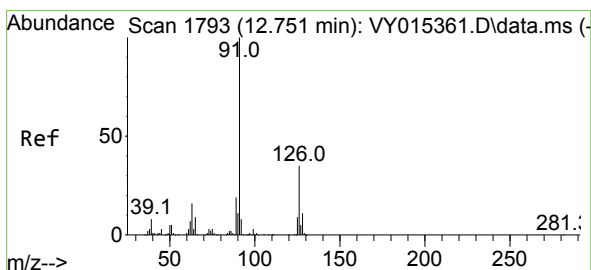
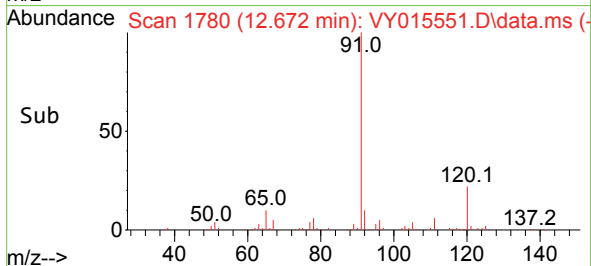
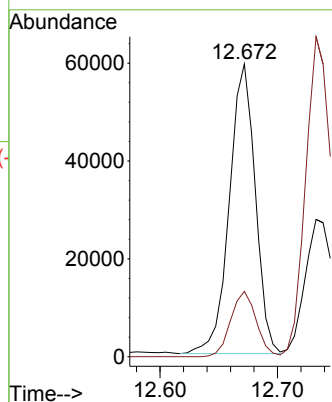
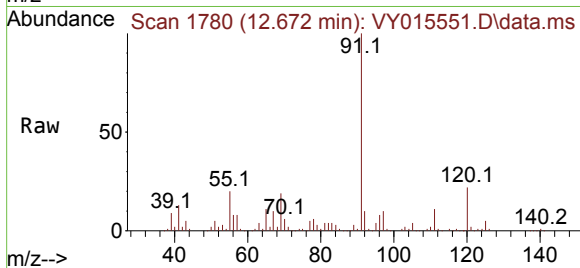
ClientSampleId :

Tgt Ion: 91 Resp: 90901

Ion Ratio Lower Upper

91 100

120 22.2 11.5 34.4



#79

2-Chlorotoluene

Concen: 3.416 ug/l

RT: 12.733 min Scan# 1790

Delta R.T. -0.019 min

Lab File: VY015551.D

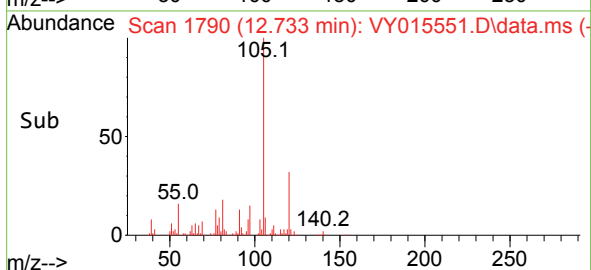
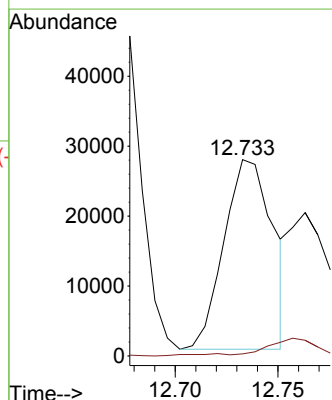
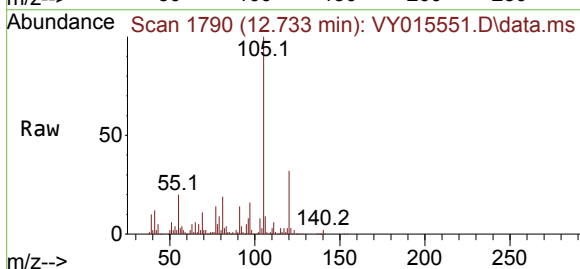
Acq: 14 Sep 2023 22:11

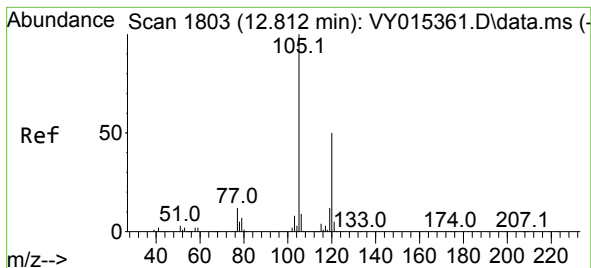
Tgt Ion: 91 Resp: 44939

Ion Ratio Lower Upper

91 100

126 0.0 17.3 51.7#





#80

1,3,5-Trimethylbenzene

Concen: 15.584 ug/l

RT: 12.812 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

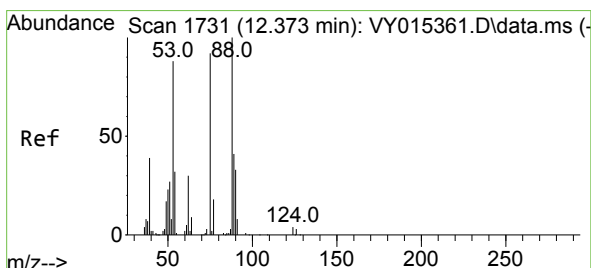
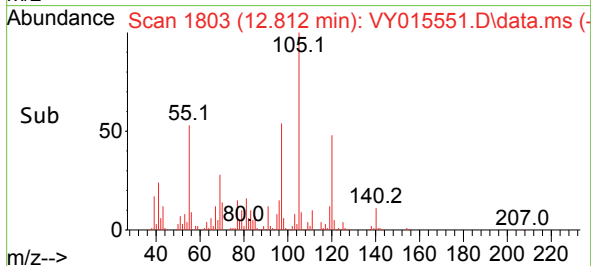
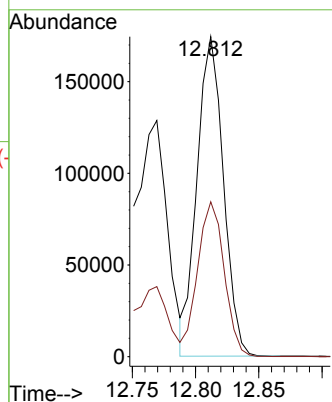
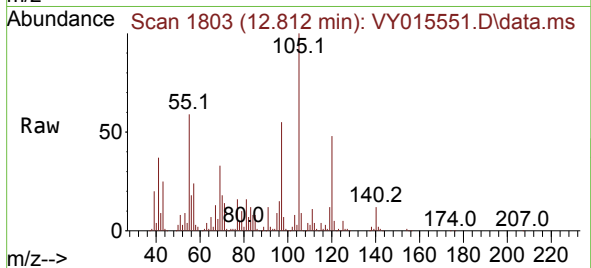
ClientSampleId :

Tgt Ion:105 Resp: 252694

Ion Ratio Lower Upper

105 100

120 49.2 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 83.668 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.103 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

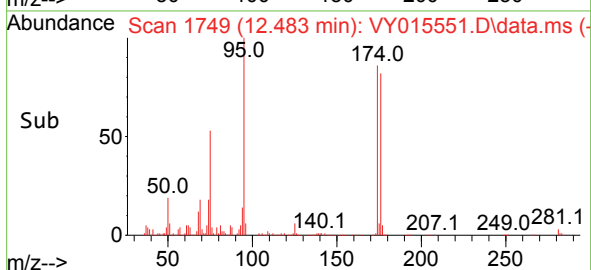
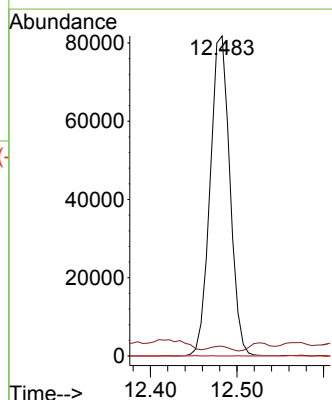
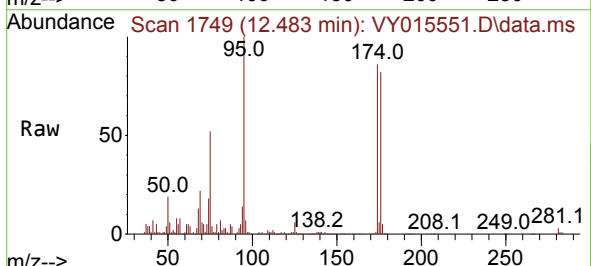
Tgt Ion: 75 Resp: 129815

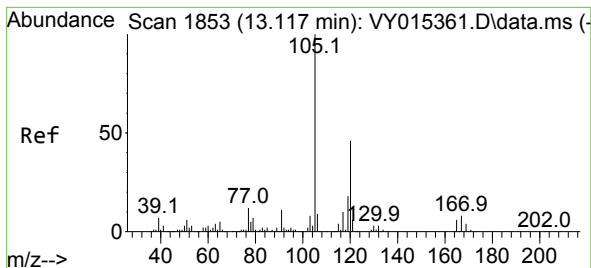
Ion Ratio Lower Upper

75 100

53 1.4 77.8 116.8#

89 0.0 37.4 56.0#





#84

1,2,4-Trimethylbenzene

Concen: 53.958 ug/l

RT: 13.117 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

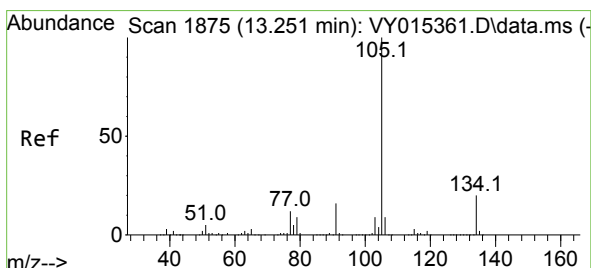
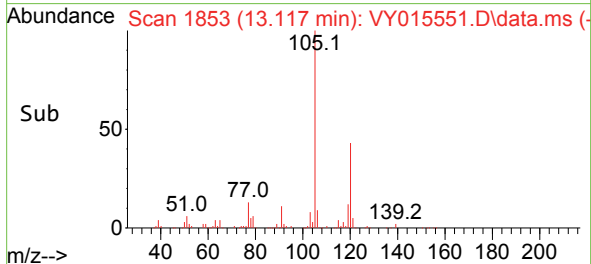
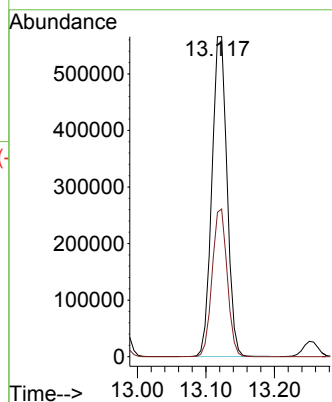
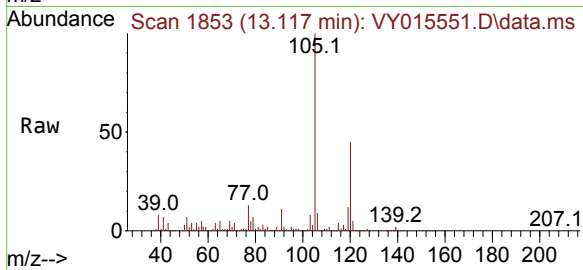
ClientSampleId :

Tgt Ion:105 Resp: 868715

Ion Ratio Lower Upper

105 100

120 46.0 22.2 66.6



#85

sec-Butylbenzene

Concen: 1.928 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. -0.000 min

Lab File: VY015551.D

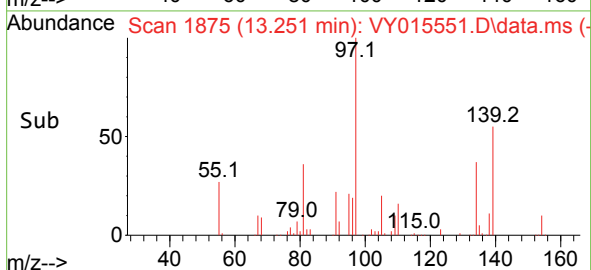
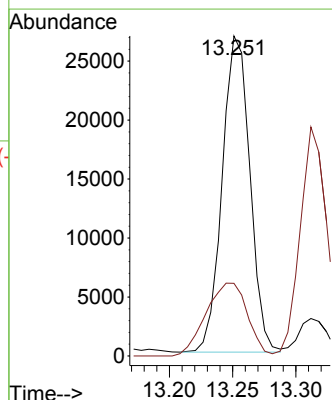
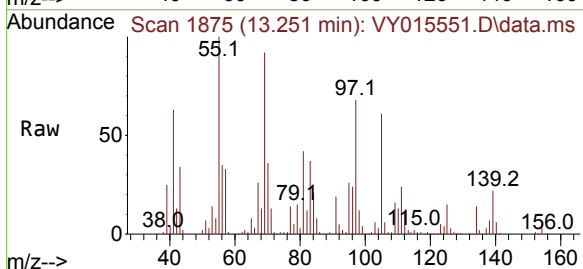
Acq: 14 Sep 2023 22:11

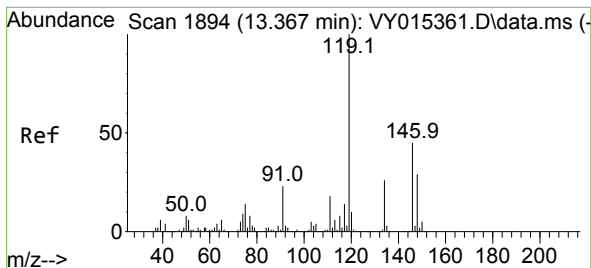
Tgt Ion:105 Resp: 40840

Ion Ratio Lower Upper

105 100

134 34.4 10.2 30.6#





#86

p-Isopropyltoluene

Concen: 3.297 ug/l

RT: 13.367 min Scan# 119

Delta R.T. -0.000 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

ClientSampleId :

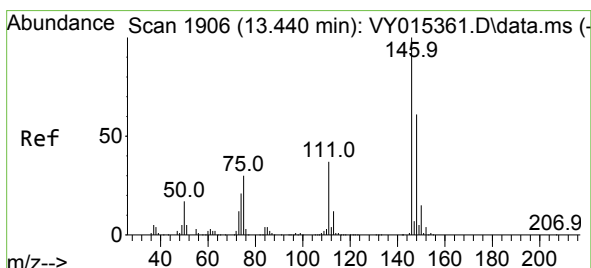
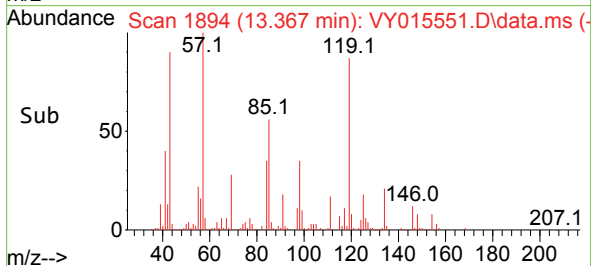
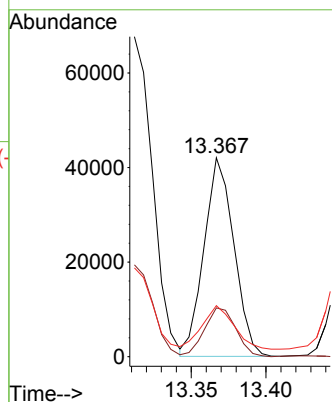
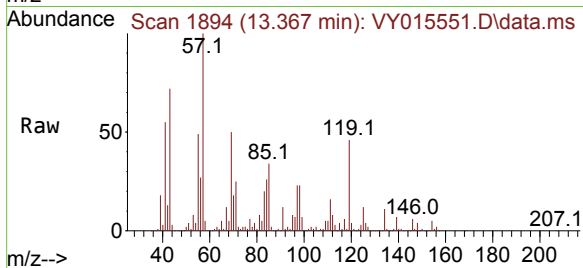
Tgt Ion:119 Resp: 58533

Ion Ratio Lower Upper

119 100

134 25.8 13.3 39.8

91 22.9 12.4 37.4



#88

1,4-Dichlorobenzene

Concen: 2.267 ug/l

RT: 13.446 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

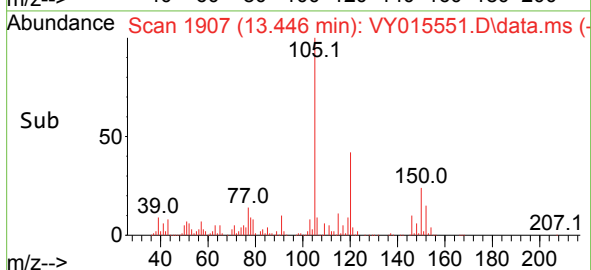
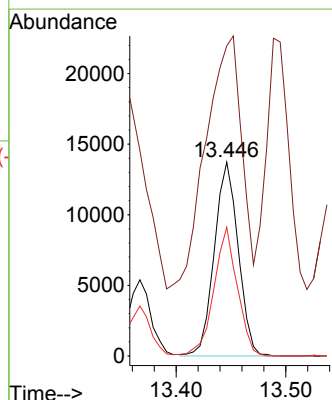
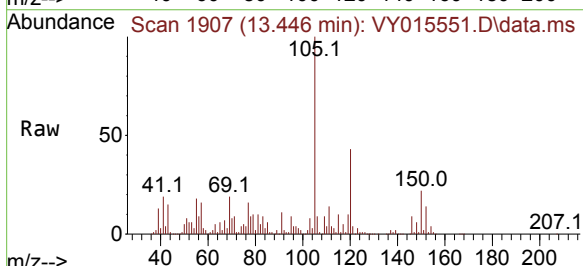
Tgt Ion:146 Resp: 20772

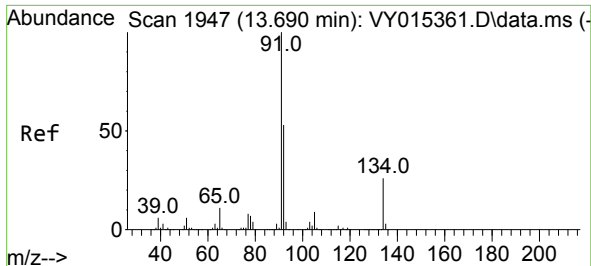
Ion Ratio Lower Upper

146 100

111 187.4 18.9 56.7#

148 65.4 32.1 96.5

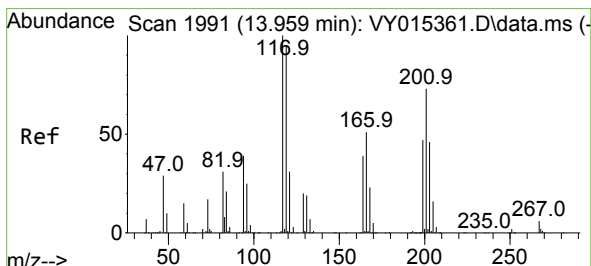
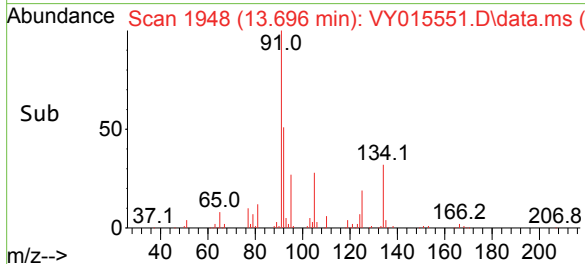
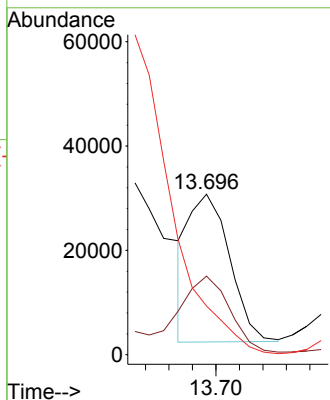
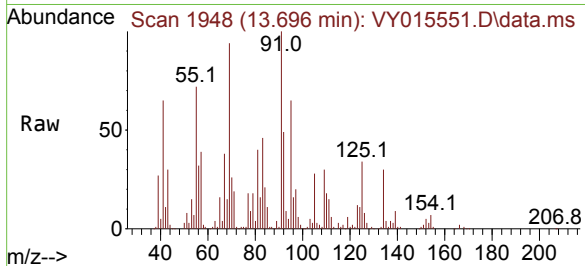




#89
n-Butylbenzene
Concen: 2.040 ug/l
RT: 13.696 min Scan# 1947
Delta R.T. -0.000 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

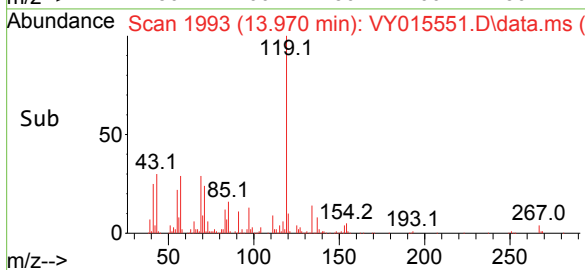
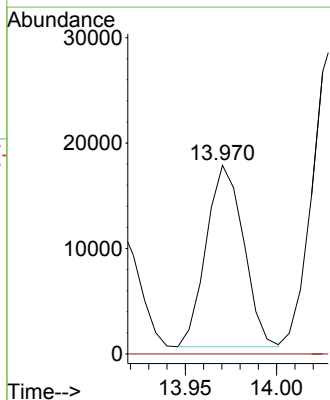
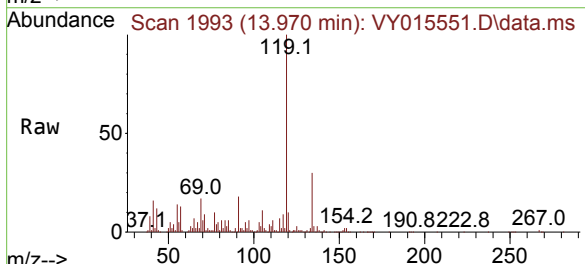
Instrument :
MSVOA_Y
ClientSampleId :

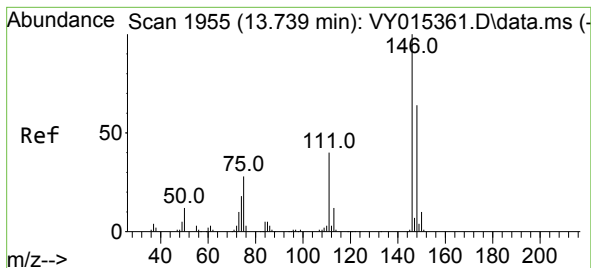
Tgt Ion: 91 Resp: 34086
Ion Ratio Lower Upper
91 100
92 78.9 25.4 76.0#
134 0.0 12.6 37.6#



#90
Hexachloroethane
Concen: 7.733 ug/l
RT: 13.970 min Scan# 1993
Delta R.T. 0.012 min
Lab File: VY015551.D
Acq: 14 Sep 2023 22:11

Tgt Ion: 117 Resp: 24556
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#





#91

1,2-Dichlorobenzene

Concen: 6.782 ug/l

RT: 13.739 min Scan# 1955

Delta R.T. -0.000 min

Lab File: VY015551.D

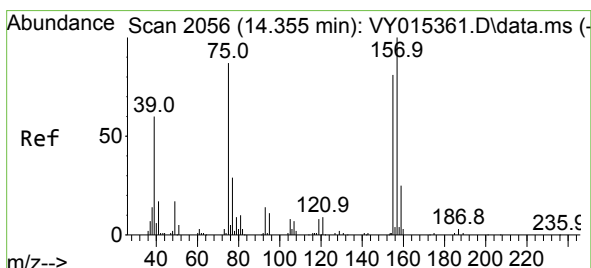
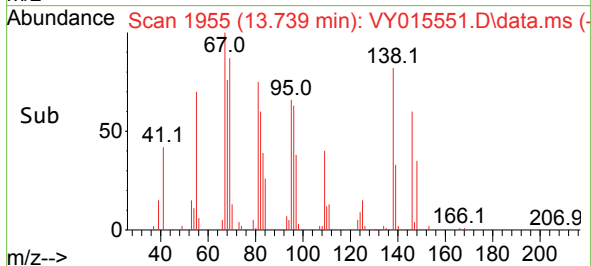
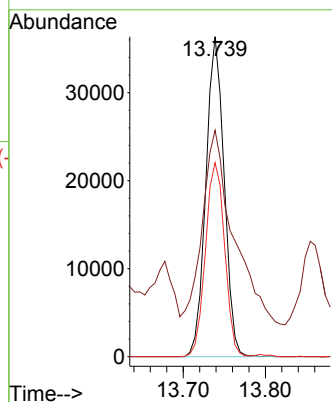
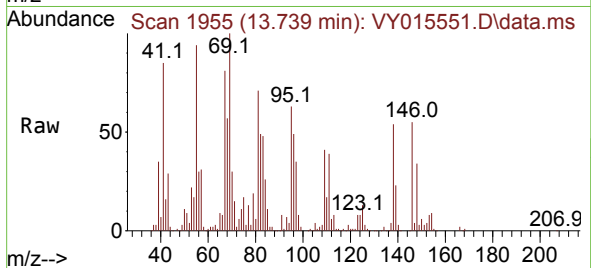
Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:146	Resp:	56103
Ion Ratio	Lower	Upper
146	100	
111	108.3	19.7 59.0#
148	63.7	32.0 96.2



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.003 ug/l

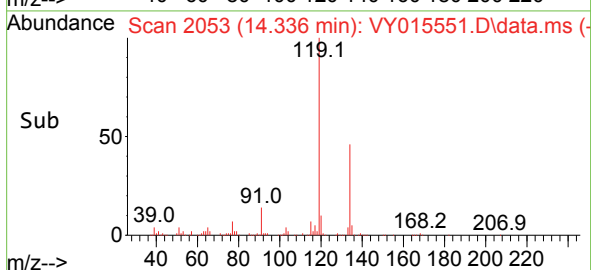
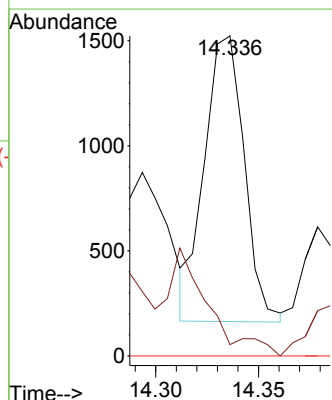
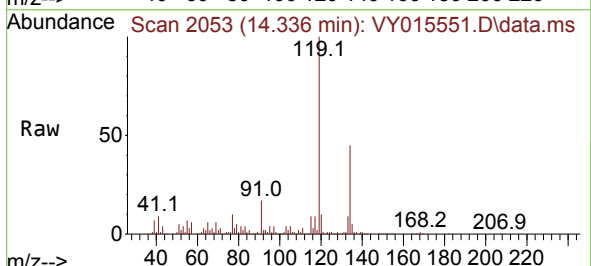
RT: 14.336 min Scan# 2053

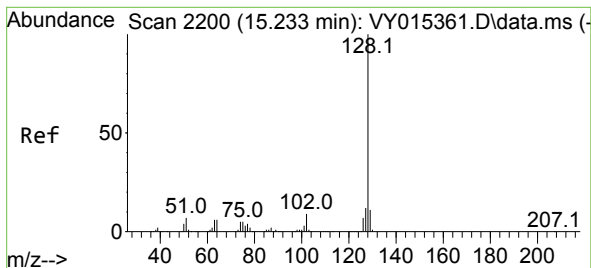
Delta R.T. -0.019 min

Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Tgt Ion: 75	Resp:	1834
Ion Ratio	Lower	Upper
75	100	
155	0.0	41.5 124.6#
157	0.0	51.8 155.5#





#95

Naphthalene

Concen: 13.848 ug/l

RT: 15.232 min Scan# 21

Delta R.T. -0.000 min

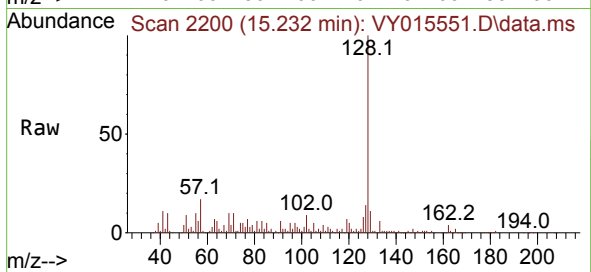
Lab File: VY015551.D

Acq: 14 Sep 2023 22:11

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 178199

Ion Ratio Lower Upper

128 100

127 13.8 10.8 16.2

129 11.5 8.6 13.0

