

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082323\
 Data File : VY015291.D
 Acq On : 23 Aug 2023 19:19
 Operator : SY/MD
 Sample : 04119-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 24 02:35:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

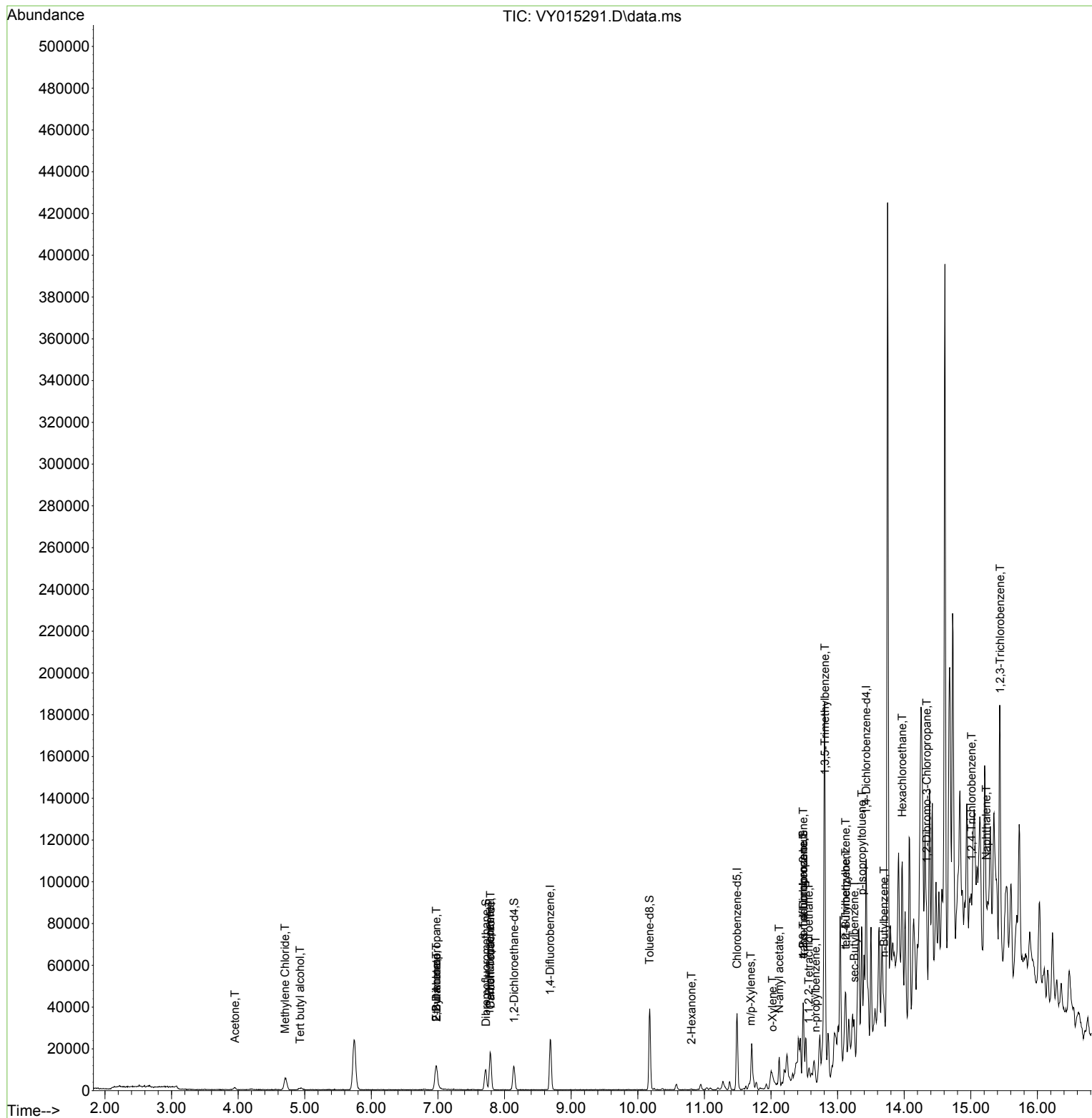
Internal Standards						
1) Pentafluorobenzene	7.783	168	13366	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	21633	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	19990	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	9843	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	9066	56.505	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 113.000%			
35) Dibromofluoromethane	7.722	113	6779	48.709	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 97.420%			
50) Toluene-d8	10.179	98	25844	49.884	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.760%			
62) 4-Bromofluorobenzene	12.483	95	9137	48.286	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 96.580%			
Target Compounds					Qvalue	
3) Chloromethane	2.113	50	137	Below Cal	#	43
5) Bromomethane	2.613	94	23	Below Cal	#	2
11) Tert butyl alcohol	4.930	59	807	15.343	ug/l #	89
16) Acetone	3.954	43	1783	34.017	ug/l	98
20) Methylene Chloride	4.704	84	4177	31.652	ug/l	85
25) 2-Butanone	6.978	43	766	10.321	ug/l #	49
26) 2,2-Dichloropropane	6.978	77	849	3.954	ug/l #	54
36) 1,1-Dichloropropene	7.777	75	1282	8.326	ug/l #	41
37) Ethyl Acetate	6.978	43	766	5.337	ug/l #	57
38) Carbon Tetrachloride	7.789	117	1442	7.913	ug/l #	12
59) 2-Hexanone	10.807	43	218	1.945	ug/l #	27
68) m/p-Xylenes	11.697	106	655	2.702	ug/l	97
69) o-Xylene	12.026	106	779	3.226	ug/l	86
74) N-amyl acetate	12.124	43	2780	12.165	ug/l #	76
75) 1,1,2,2-Tetrachloroethane	12.569	83	279	1.692	ug/l #	26
76) 1,2,3-Trichloropropane	12.483	75	4901	40.983	ug/l #	100
78) n-propylbenzene	12.672	91	2163	2.878	ug/l	96
80) 1,3,5-Trimethylbenzene	12.813	105	7469	14.157	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.483	75	4901	90.019	ug/l #	11
83) tert-Butylbenzene	13.123	119	2018	4.182	ug/l #	48
84) 1,2,4-Trimethylbenzene	13.123	105	15884	30.129	ug/l	97
85) sec-Butylbenzene	13.252	105	3368	4.763	ug/l	89
86) p-Isopropyltoluene	13.367	119	4163	7.101	ug/l	99
89) n-Butylbenzene	13.697	91	4491	8.125	ug/l #	63
90) Hexachloroethane	13.971	117	2087	17.945	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.337	75	189	5.919	ug/l #	3
93) 1,2,4-Trichlorobenzene	15.013	180	317	1.727	ug/l #	1
95) Naphthalene	15.233	128	4138	9.051	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.440	180	918	5.539	ug/l #	1

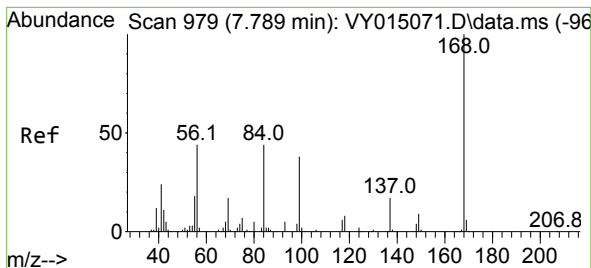
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Aug 14 12:43:26 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.000 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

Instrument :

MSVOA_Y

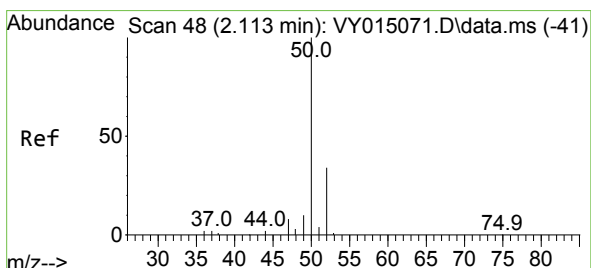
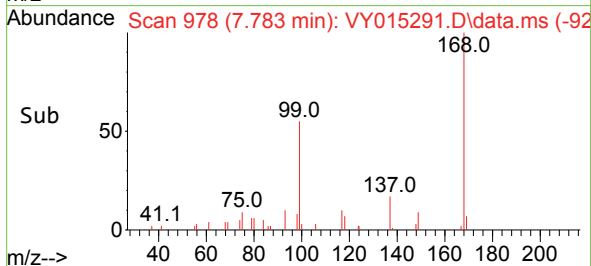
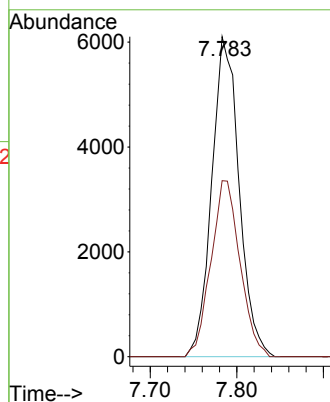
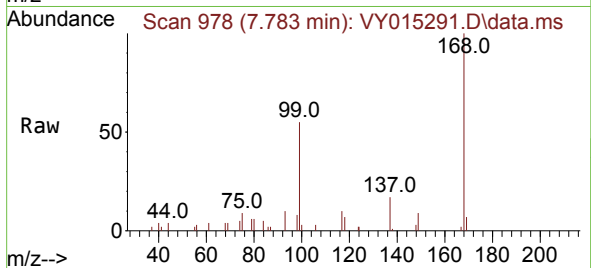
ClientSampleId :

Tgt Ion:168 Resp: 13366

Ion Ratio Lower Upper

168 100

99 55.0 43.4 65.0



#3

Chloromethane

Concen: Below Cal

RT: 2.113 min Scan# 48

Delta R.T. 0.006 min

Lab File: VY015291.D

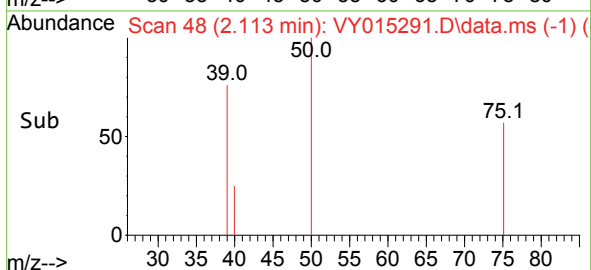
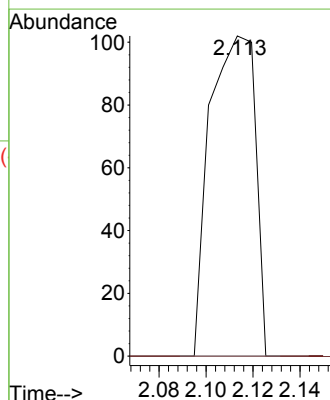
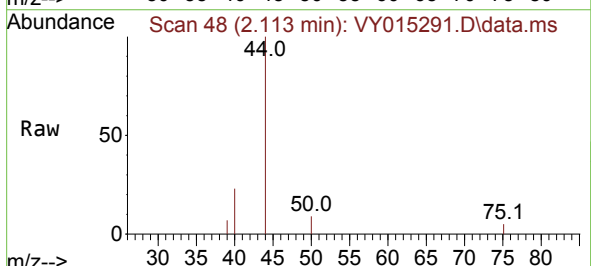
Acq: 23 Aug 2023 19:19

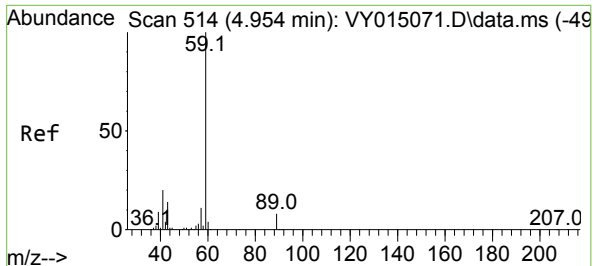
Tgt Ion: 50 Resp: 137

Ion Ratio Lower Upper

50 100

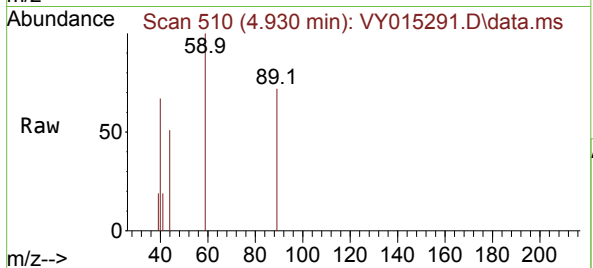
52 0.0 25.4 38.2#



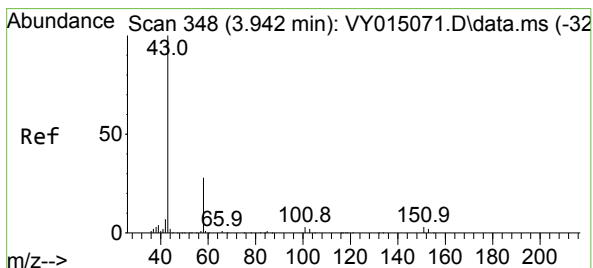
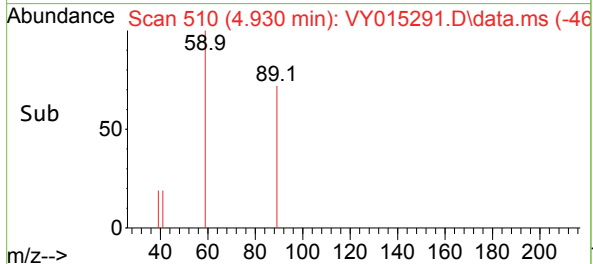
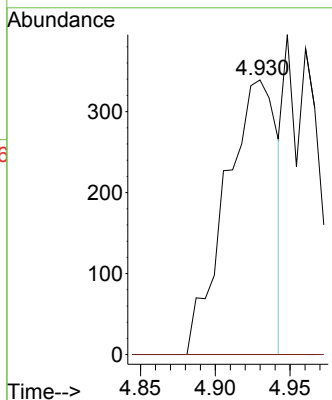


#11
Tert butyl alcohol
Concen: 15.343 ug/l
RT: 4.930 min Scan# 514
Delta R.T. -0.018 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Instrument :
MSVOA_Y
ClientSampleId :

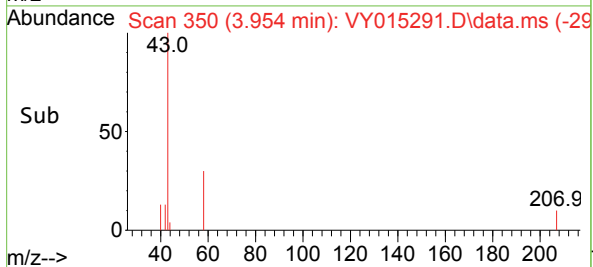
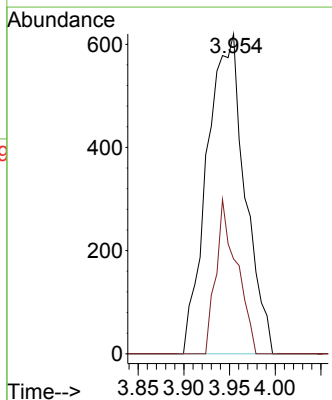
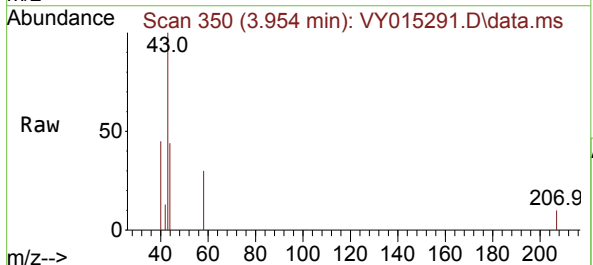


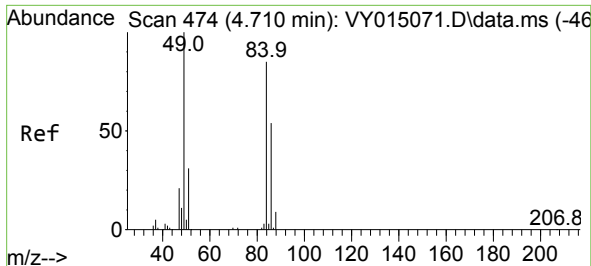
Tgt Ion: 59 Resp: 807
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#16
Acetone
Concen: 34.017 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.012 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

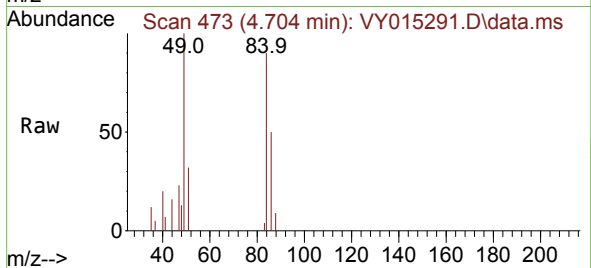
Tgt Ion: 43 Resp: 1783
Ion Ratio Lower Upper
43 100
58 29.7 22.7 34.1



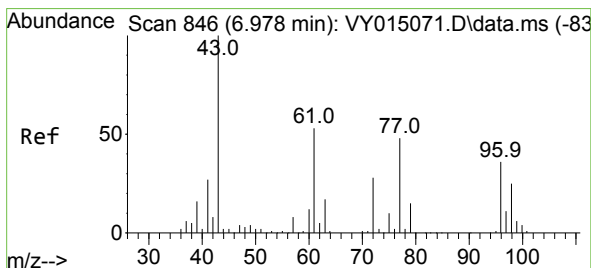
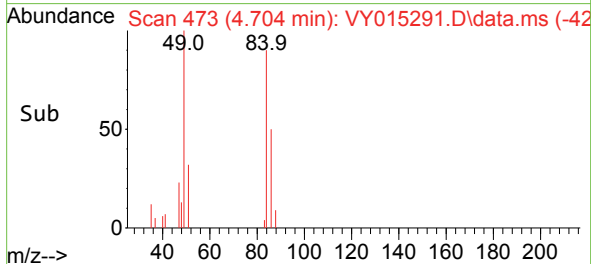
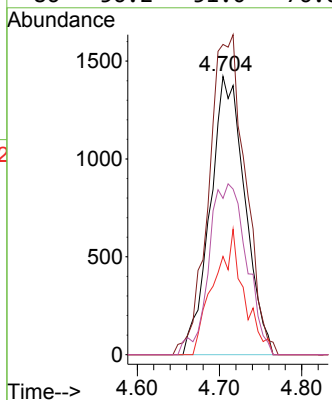


#20
Methylene Chloride
Concen: 31.652 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Instrument :
MSVOA_Y
ClientSampleId :

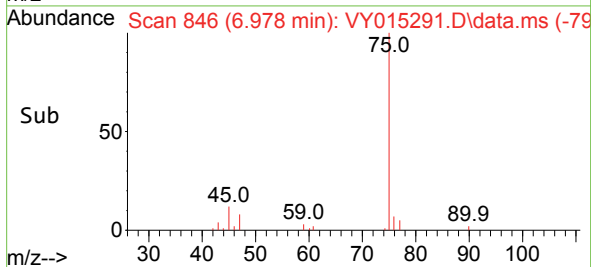
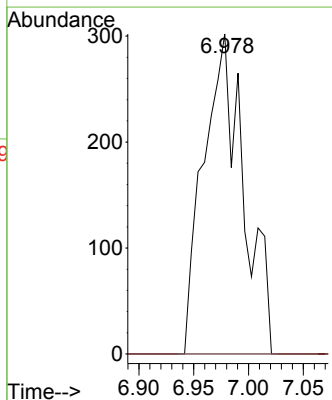
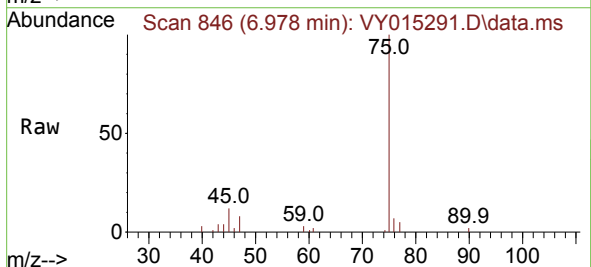


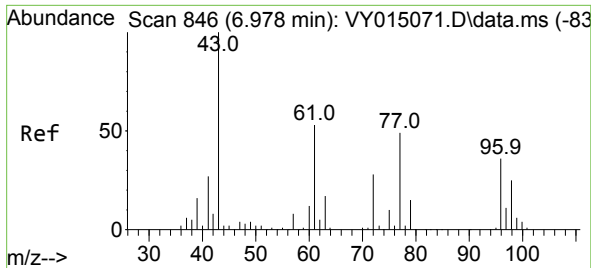
Tgt Ion:	84	Resp:	4177
Ion	Ratio	Lower	Upper
84	100		
49	111.5	106.9	160.3
51	35.3	33.2	49.8
86	56.2	51.0	76.6



#25
2-Butanone
Concen: 10.321 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Tgt Ion:	43	Resp:	766
Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.5	30.7#

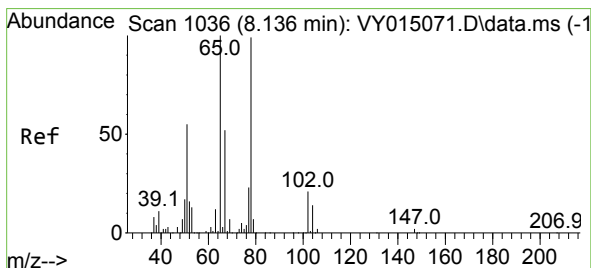
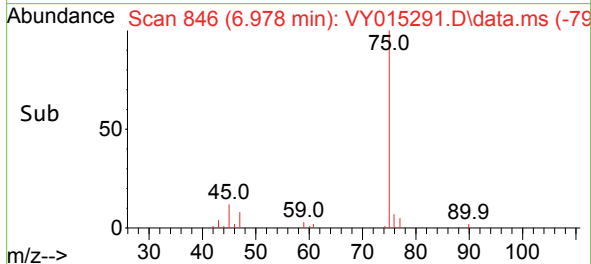
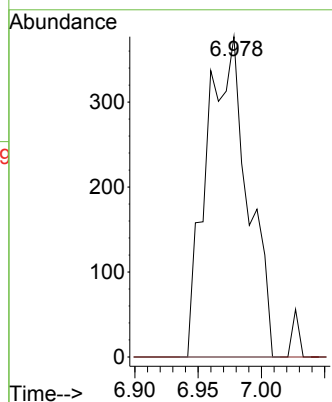
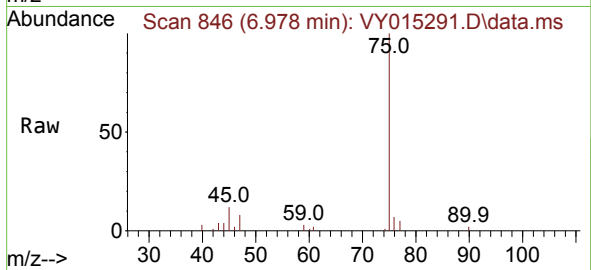




#26
2,2-Dichloropropane
Concen: 3.954 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.006 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

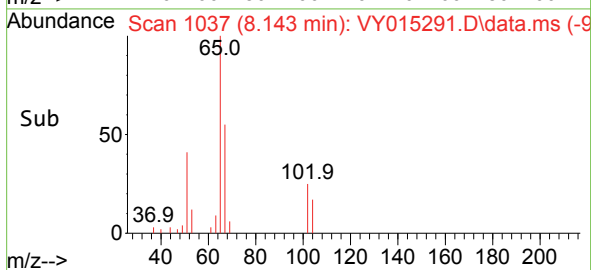
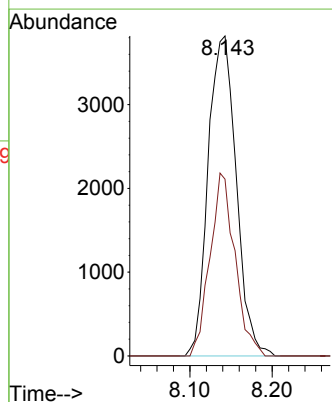
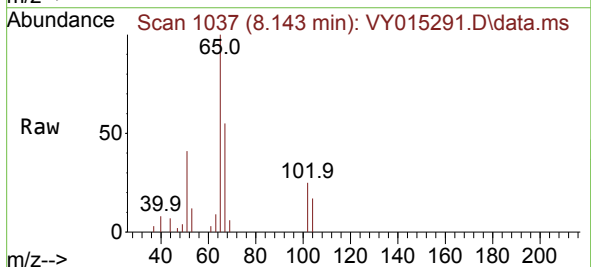
Instrument :
MSVOA_Y
ClientSampleId :

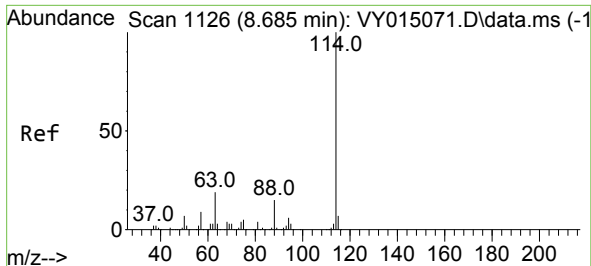
Tgt Ion: 77 Resp: 849
Ion Ratio Lower Upper
77 100
97 0.0 10.9 32.9#



#33
1,2-Dichloroethane-d4
Concen: 56.505 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Tgt Ion: 65 Resp: 9066
Ion Ratio Lower Upper
65 100
67 50.9 0.0 101.8

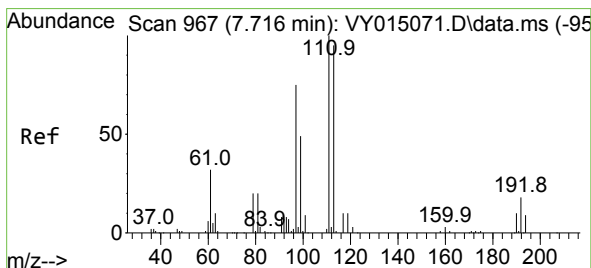
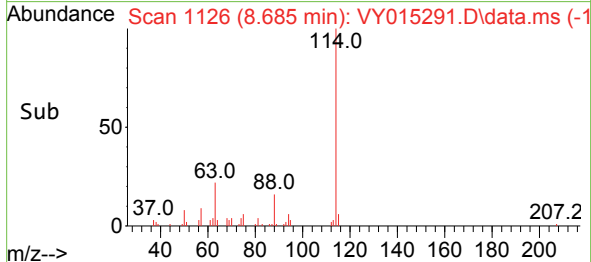
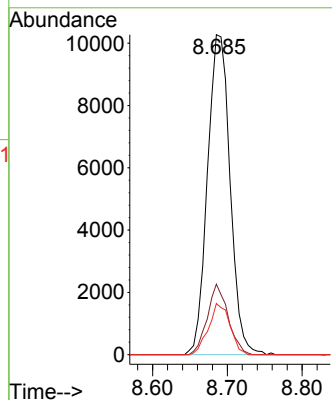
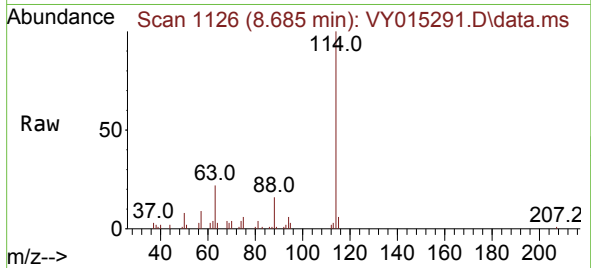




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

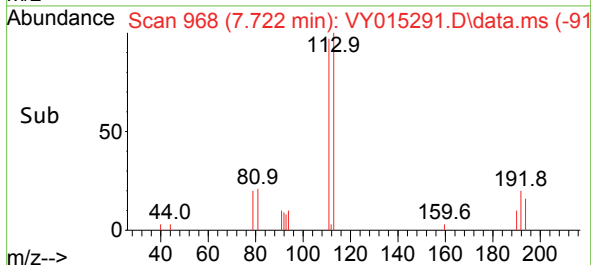
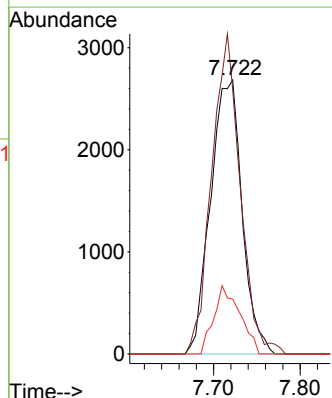
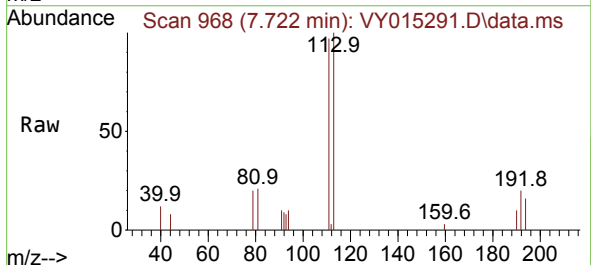
Instrument :
MSVOA_Y
ClientSampleId :

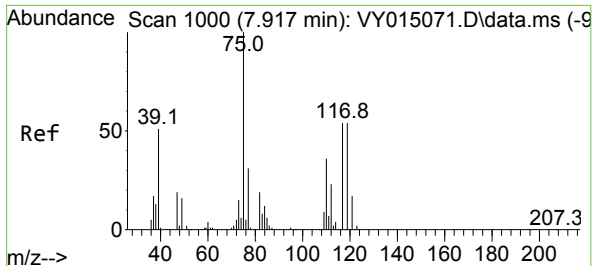
Tgt Ion:	114	Resp:	21633
Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	42.4
88	16.0	0.0	30.6



#35
Dibromofluoromethane
Concen: 48.709 ug/l
RT: 7.722 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

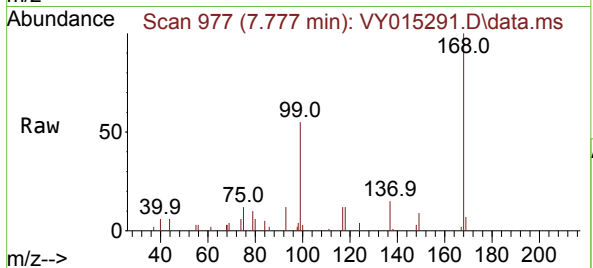
Tgt Ion:	113	Resp:	6779
Ion	Ratio	Lower	Upper
113	100		
111	105.9	81.3	121.9
192	20.6	16.9	25.3



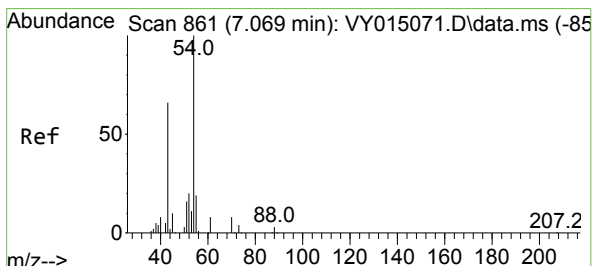
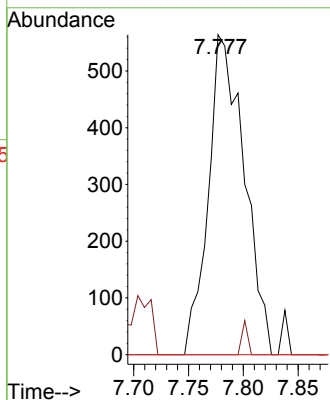
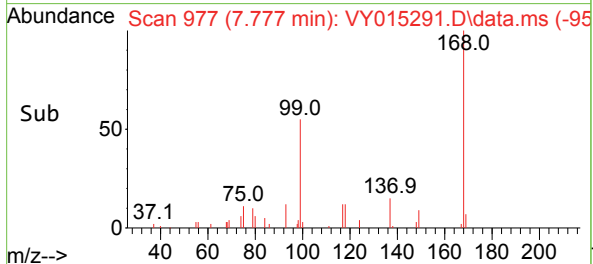


#36
1,1-Dichloropropene
Concen: 8.326 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

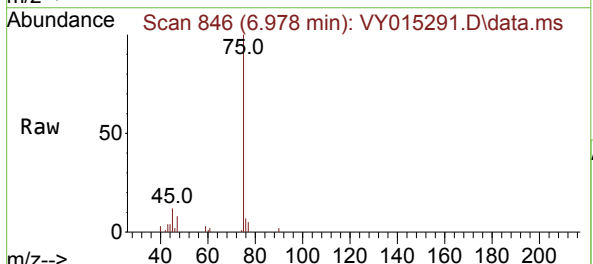
Instrument :
MSVOA_Y
ClientSampleId :



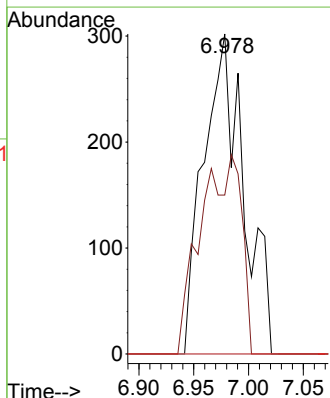
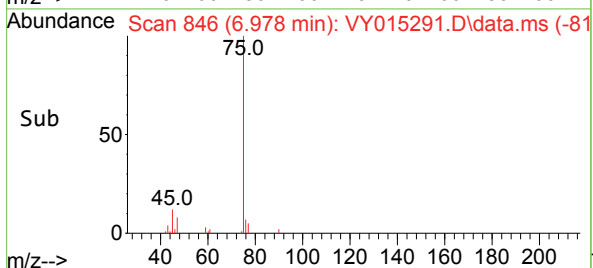
Tgt Ion: 75 Resp: 1282
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.5#
77 0.0 24.4 36.6#

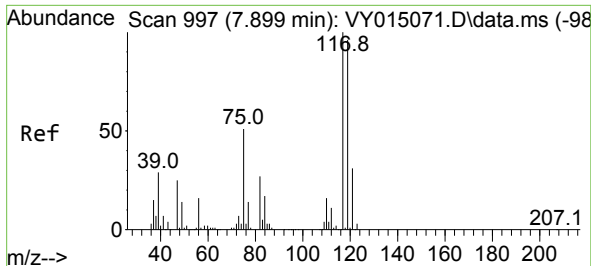


#37
Ethyl Acetate
Concen: 5.337 ug/l
RT: 6.978 min Scan# 846
Delta R.T. -0.091 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19



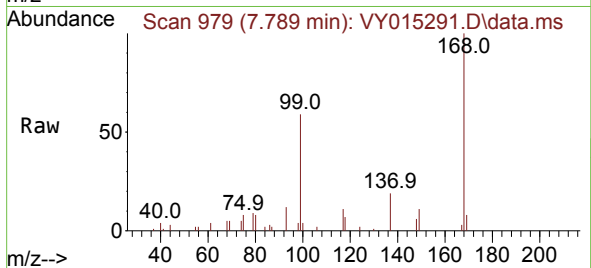
Tgt Ion: 43 Resp: 766
Ion Ratio Lower Upper
43 100
61 34.6 10.1 15.1#
70 0.0 7.1 10.7#



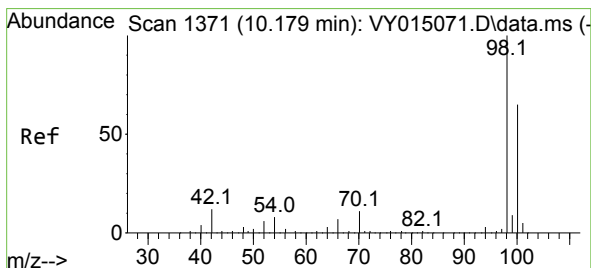
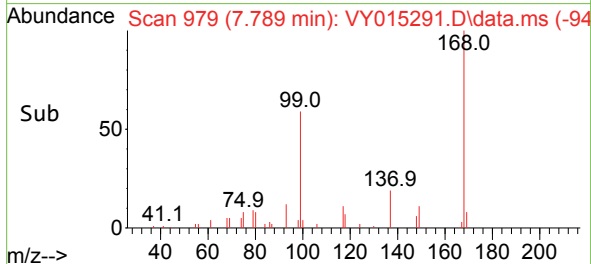
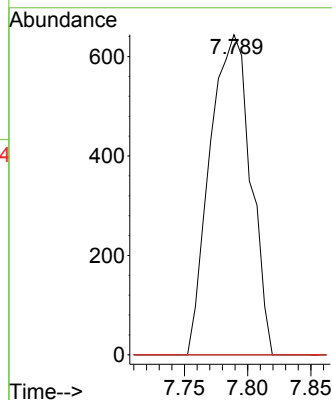


#38
Carbon Tetrachloride
Concen: 7.913 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Instrument :
MSVOA_Y
ClientSampleId :

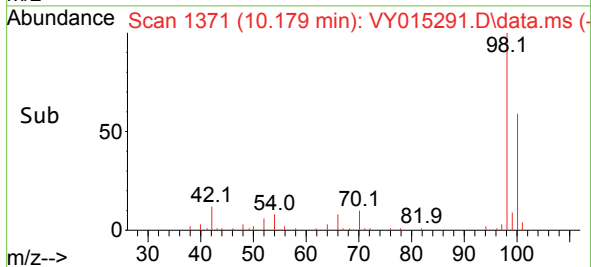
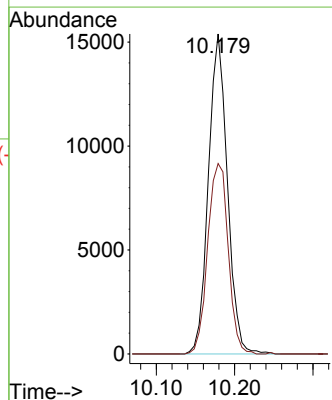
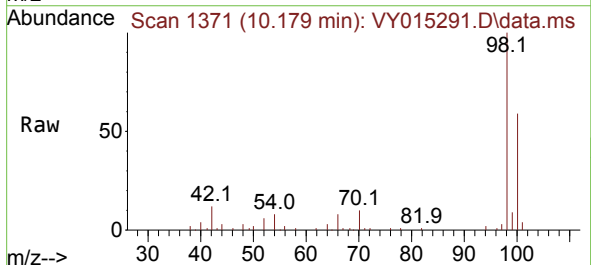


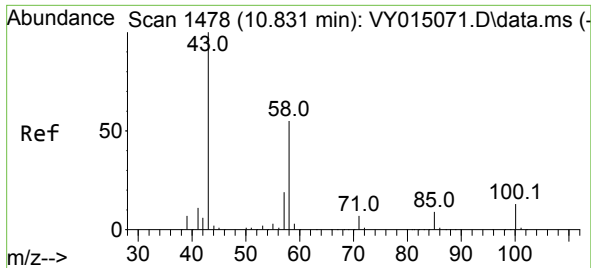
Tgt Ion:117 Resp: 1442
Ion Ratio Lower Upper
117 100
119 0.0 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 49.884 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Tgt Ion: 98 Resp: 25844
Ion Ratio Lower Upper
98 100
100 64.3 50.1 75.1

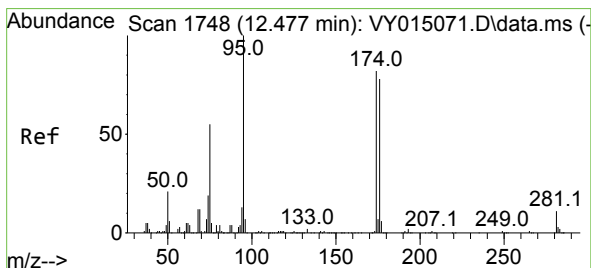
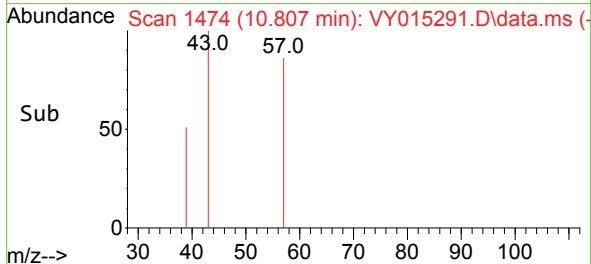
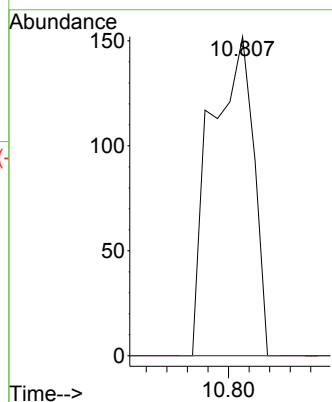
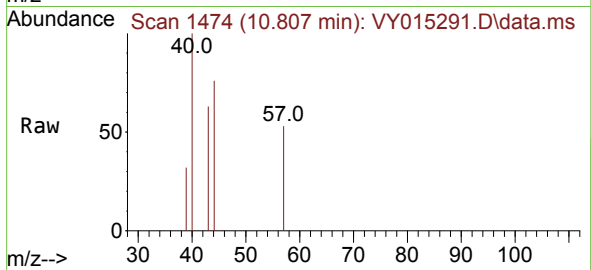




#59
2-Hexanone
Concen: 1.945 ug/l
RT: 10.807 min Scan# 1478
Delta R.T. -0.024 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

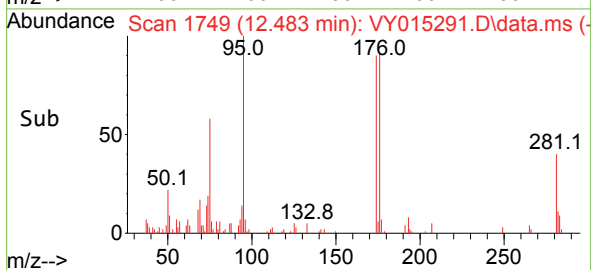
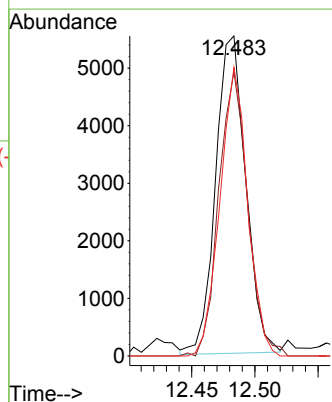
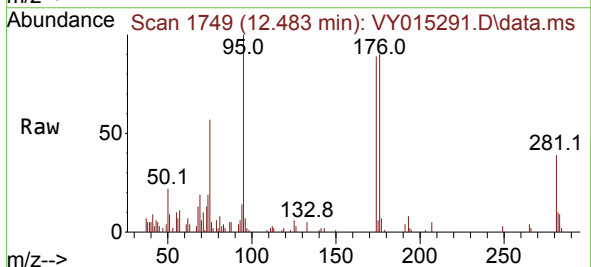
Instrument :
MSVOA_Y
ClientSampleId :

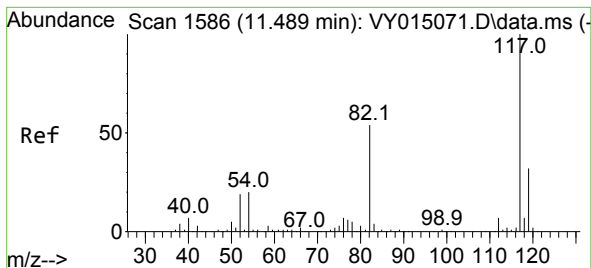
Tgt Ion: 43 Resp: 218
Ion Ratio Lower Upper
43 100
58 0.0 25.1 75.3#



#62
4-Bromofluorobenzene
Concen: 48.286 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Tgt Ion: 95 Resp: 9137
Ion Ratio Lower Upper
95 100
174 85.5 0.0 178.2
176 83.6 0.0 173.8

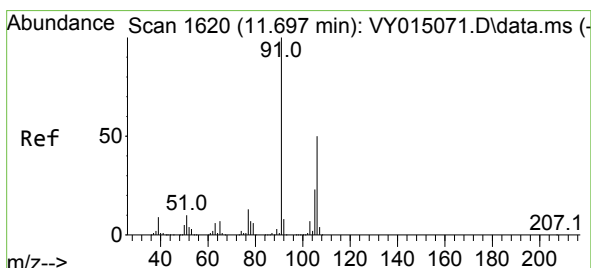
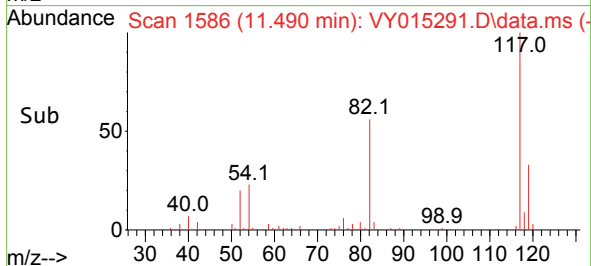
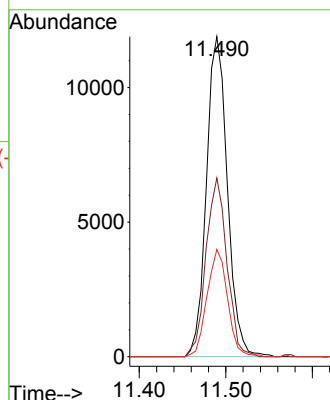
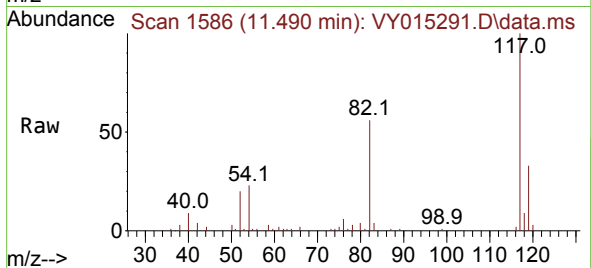




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

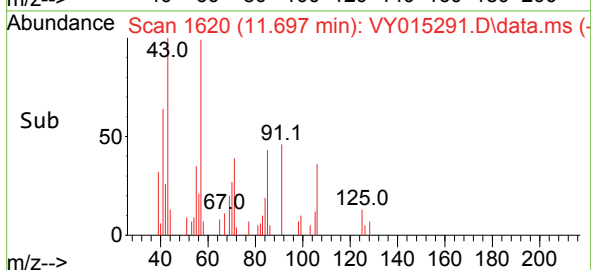
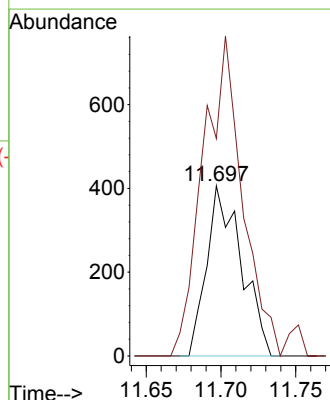
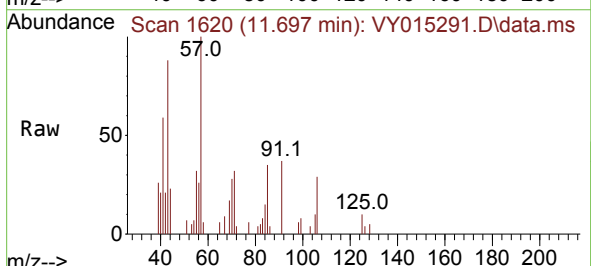
Instrument :
MSVOA_Y
ClientSampleId :

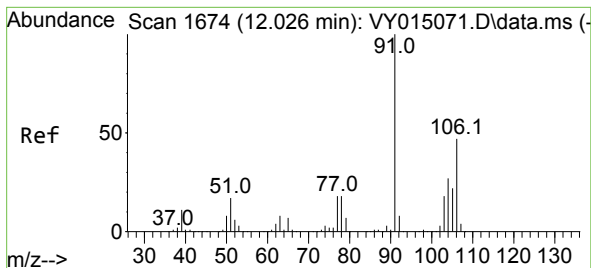
Tgt Ion:117 Resp: 19990
Ion Ratio Lower Upper
117 100
82 55.9 43.4 65.0
119 33.5 26.3 39.5



#68
m/p-Xylenes
Concen: 2.702 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Tgt Ion:106 Resp: 655
Ion Ratio Lower Upper
106 100
91 213.0 166.1 249.1

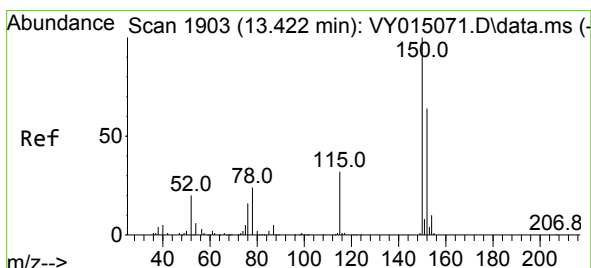
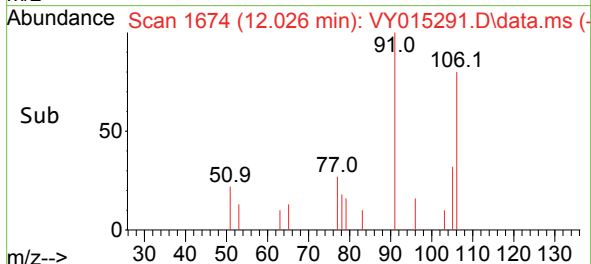
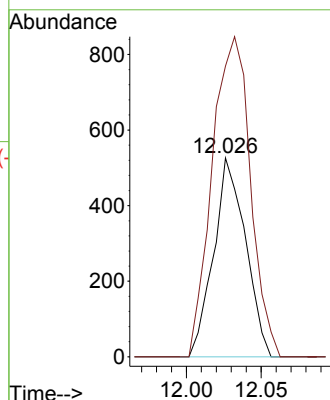
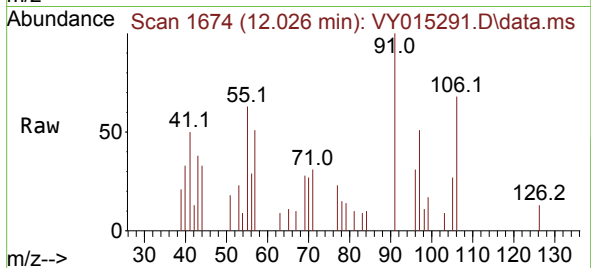




#69
o-Xylene
Concen: 3.226 ug/l
RT: 12.026 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

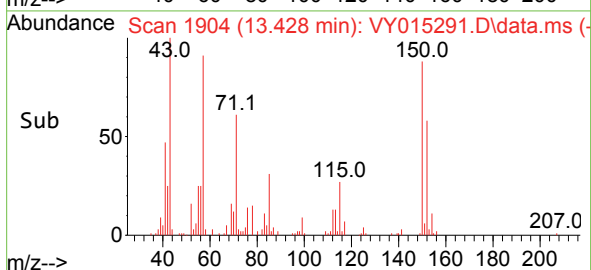
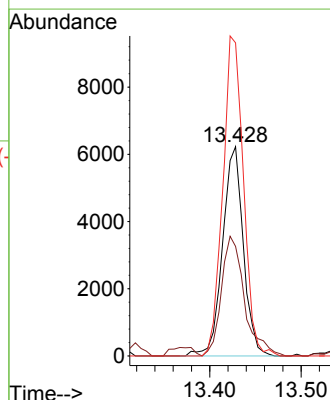
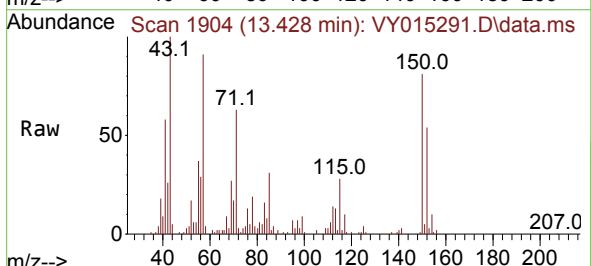
Instrument :
MSVOA_Y
ClientSampleId :

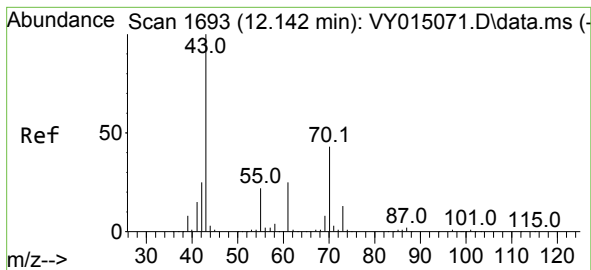
Tgt Ion:106 Resp: 779
Ion Ratio Lower Upper
106 100
91 193.3 108.1 324.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Tgt Ion:152 Resp: 9843
Ion Ratio Lower Upper
152 100
115 63.5 28.8 86.5
150 151.9 0.0 348.8





#74

N-amy1 acetate

Concen: 12.165 ug/l

RT: 12.124 min Scan# 1690

Delta R.T. -0.018 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 43 Resp: 2780

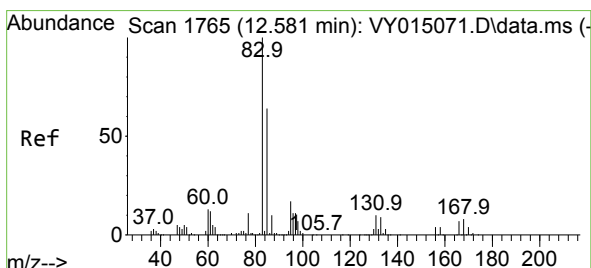
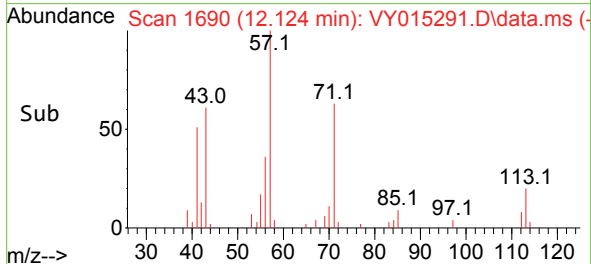
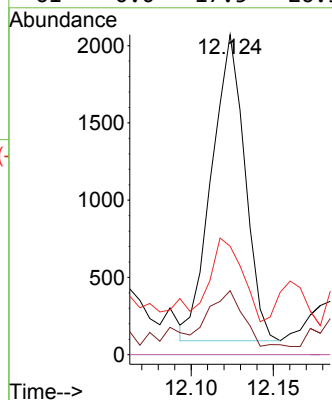
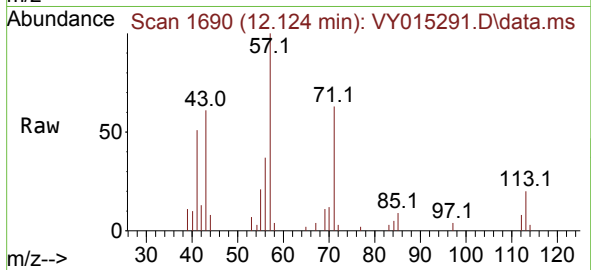
Ion Ratio Lower Upper

43 100

70 24.2 29.7 44.5#

55 26.1 18.3 27.5

61 0.0 17.5 26.3#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.692 ug/l

RT: 12.569 min Scan# 1763

Delta R.T. -0.012 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

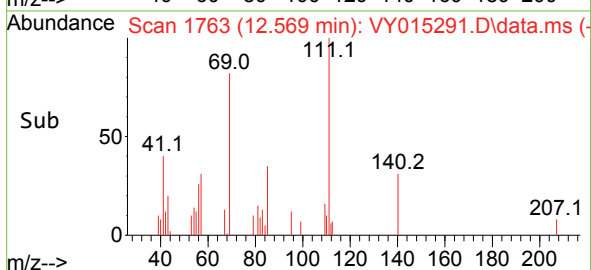
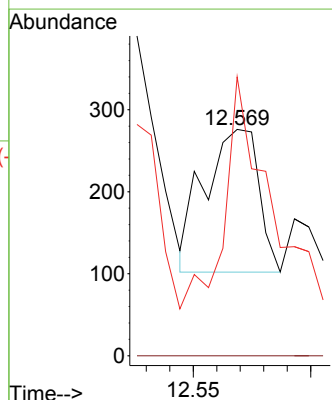
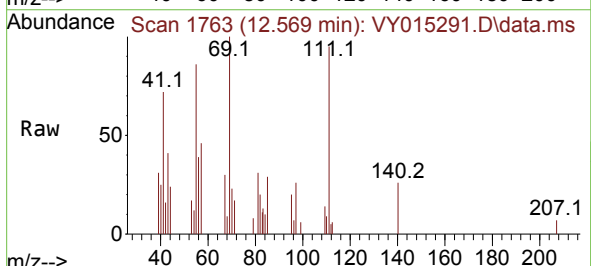
Tgt Ion: 83 Resp: 279

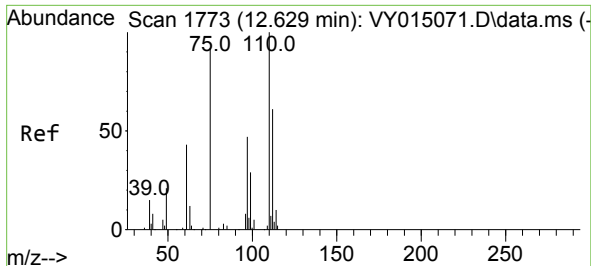
Ion Ratio Lower Upper

83 100

131 0.0 5.4 16.2#

85 0.0 31.8 95.4#

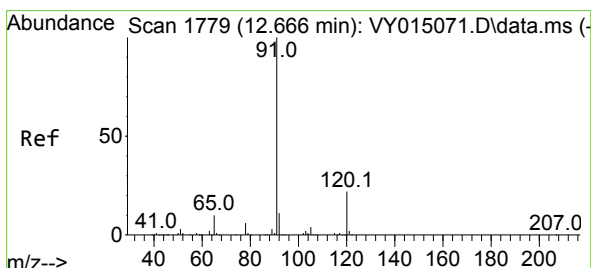
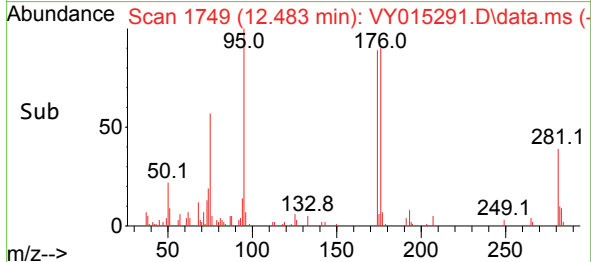
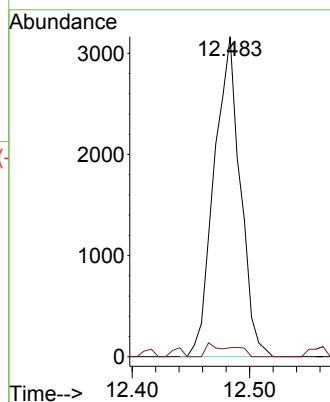
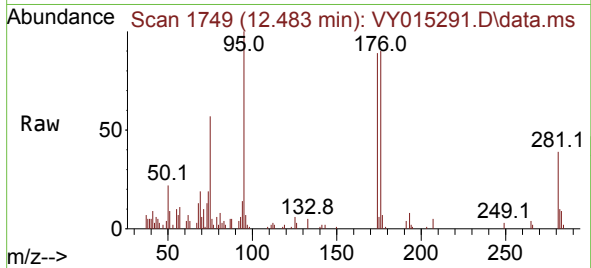




#76
1,2,3-Trichloropropane
Concen: 40.983 ug/l
RT: 12.483 min Scan# 11
Delta R.T. -0.146 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

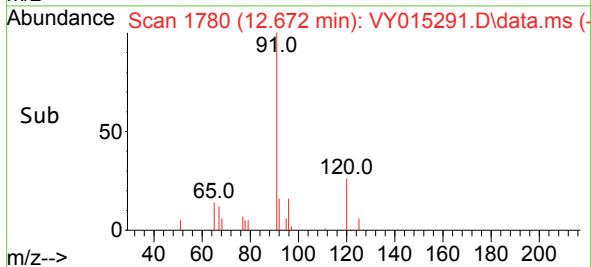
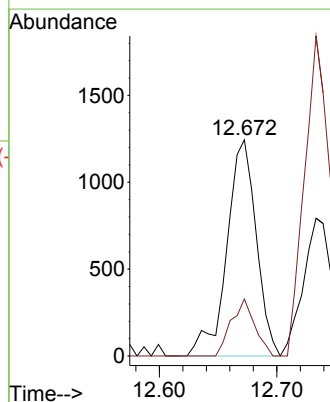
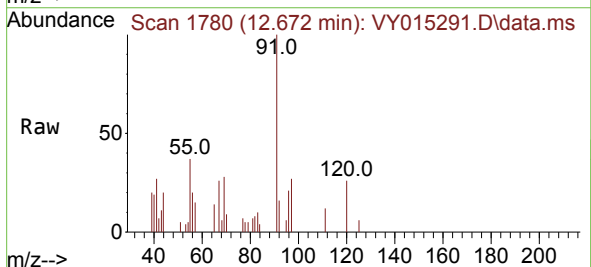
Instrument :
MSVOA_Y
ClientSampleId :

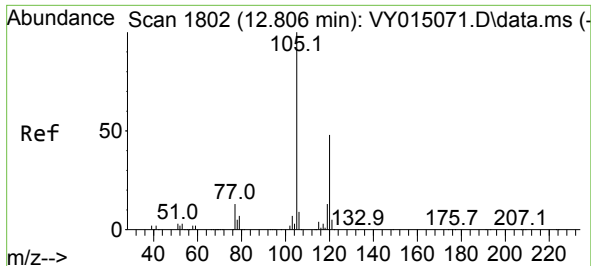
Tgt Ion: 75 Resp: 4901
Ion Ratio Lower Upper
75 100
77 2.2 0.0 0.0#



#78
n-propylbenzene
Concen: 2.878 ug/l
RT: 12.672 min Scan# 1780
Delta R.T. 0.006 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Tgt Ion: 91 Resp: 2163
Ion Ratio Lower Upper
91 100
120 21.1 11.5 34.4

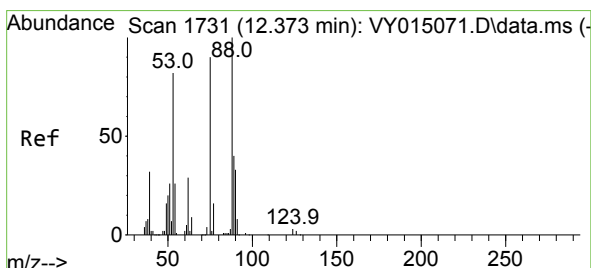
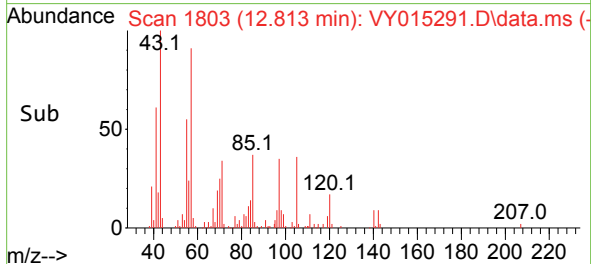
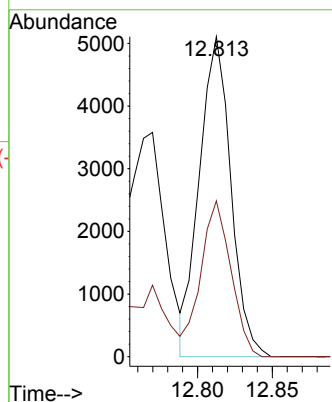
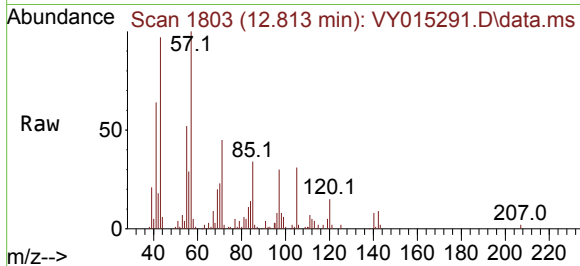




#80
1,3,5-Trimethylbenzene
Concen: 14.157 ug/l
RT: 12.813 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

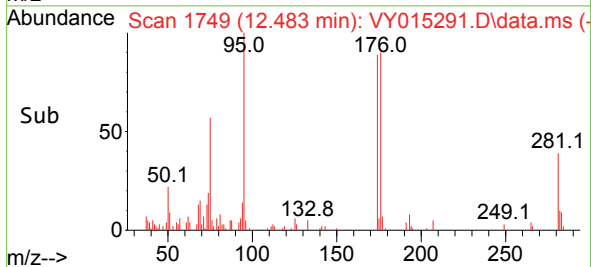
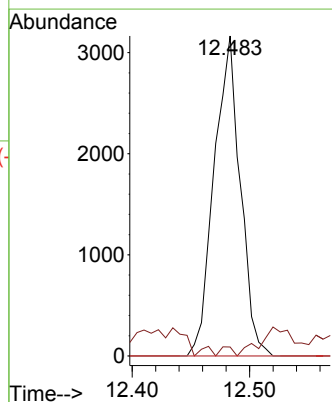
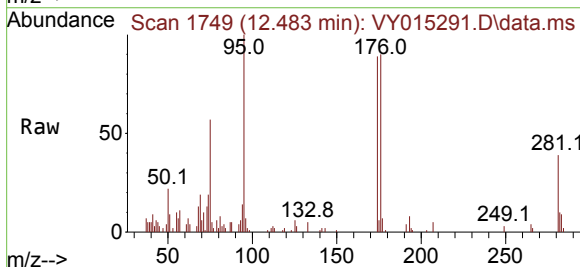
Instrument :
MSVOA_Y
ClientSampleId :

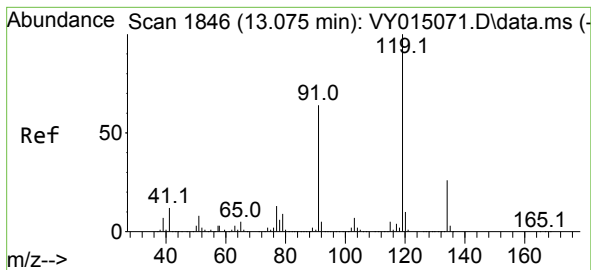
Tgt Ion:105 Resp: 7469
Ion Ratio Lower Upper
105 100
120 46.8 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 90.019 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.110 min
Lab File: VY015291.D
Acq: 23 Aug 2023 19:19

Tgt Ion: 75 Resp: 4901
Ion Ratio Lower Upper
75 100
53 1.3 77.8 116.8#
89 0.0 37.4 56.0#





#83

tert-Butylbenzene

Concen: 4.182 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.049 min

Lab File: VY015291.D

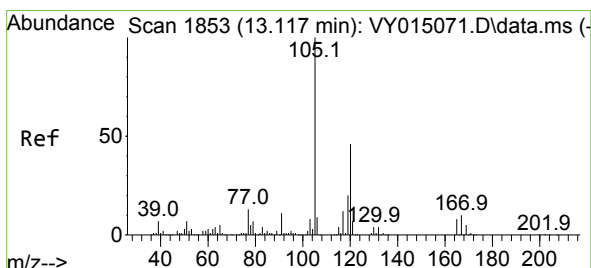
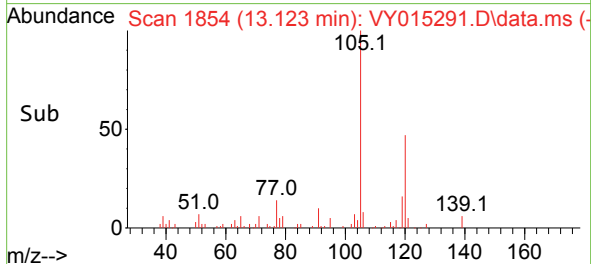
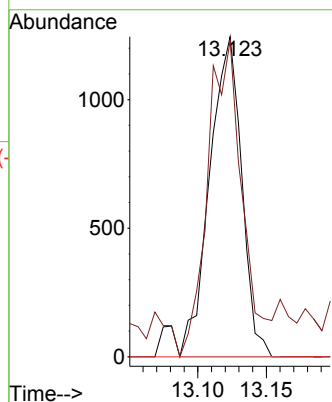
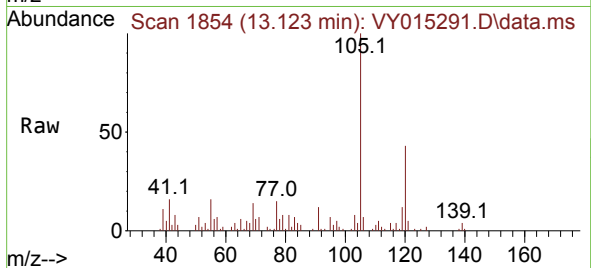
Acq: 23 Aug 2023 19:19

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	119	Resp:	2018
Ion	Ratio	Lower	Upper
119	100		
91	107.2	32.9	98.6#
134	0.0	13.0	38.9#



#84

1,2,4-Trimethylbenzene

Concen: 30.129 ug/l

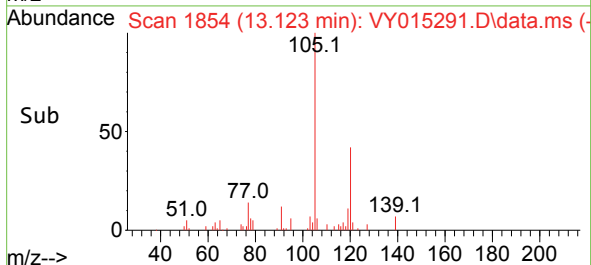
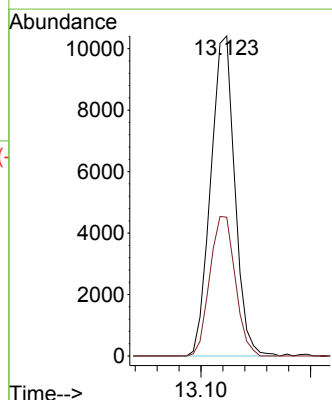
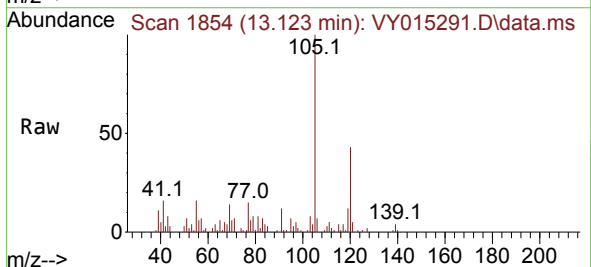
RT: 13.123 min Scan# 1854

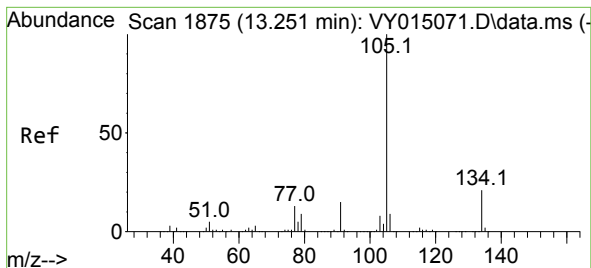
Delta R.T. 0.006 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

Tgt Ion:	105	Resp:	15884
Ion	Ratio	Lower	Upper
105	100		
120	46.0	22.2	66.6





#85

sec-Butylbenzene

Concen: 4.763 ug/l

RT: 13.252 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

Instrument :

MSVOA_Y

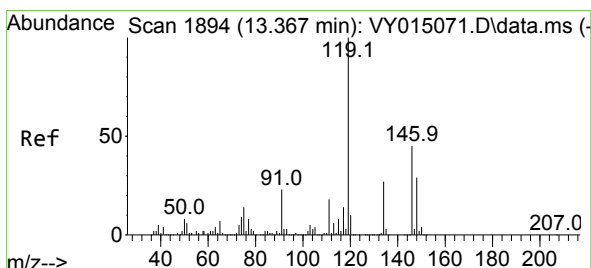
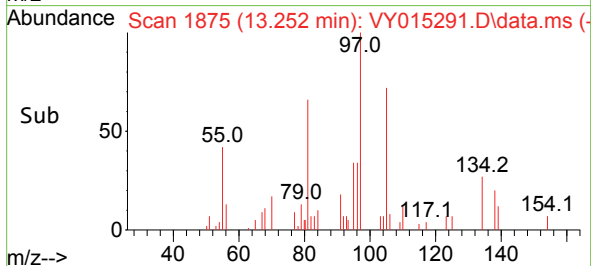
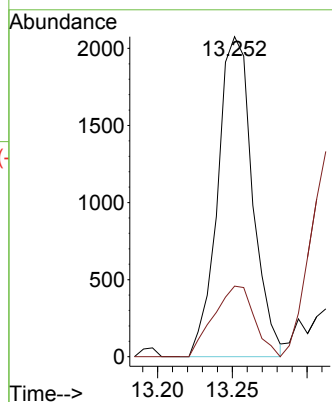
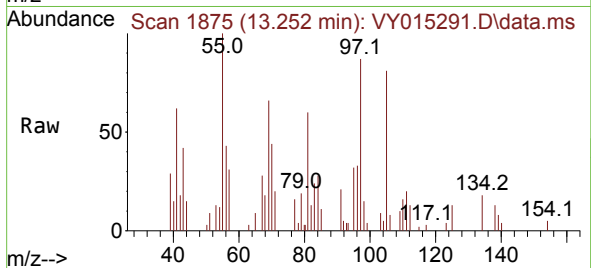
ClientSampleId :

Tgt Ion:105 Resp: 3368

Ion Ratio Lower Upper

105 100

134 25.7 10.2 30.6



#86

p-Isopropyltoluene

Concen: 7.101 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

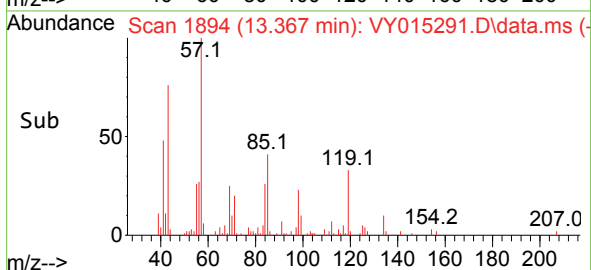
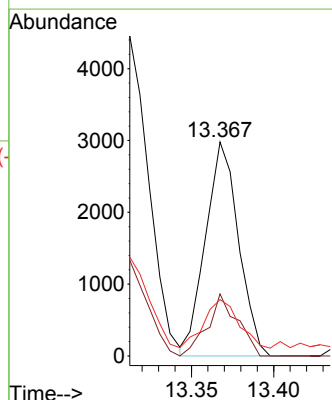
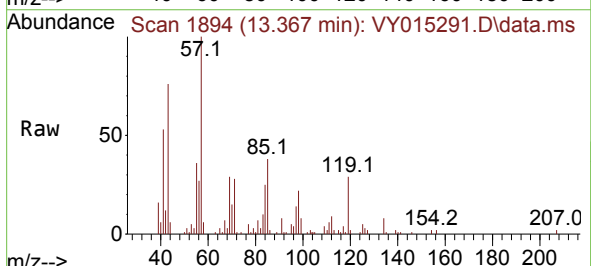
Tgt Ion:119 Resp: 4163

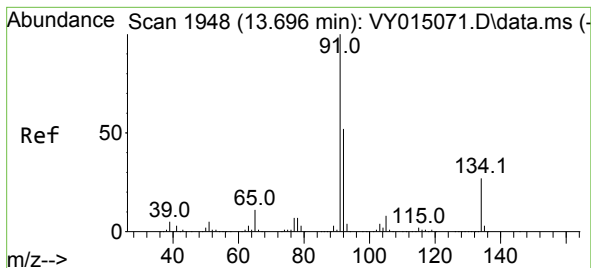
Ion Ratio Lower Upper

119 100

134 26.2 13.3 39.8

91 23.7 12.4 37.4





#89

n-Butylbenzene

Concen: 8.125 ug/l

RT: 13.697 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

Instrument :

MSVOA_Y

ClientSampleId :

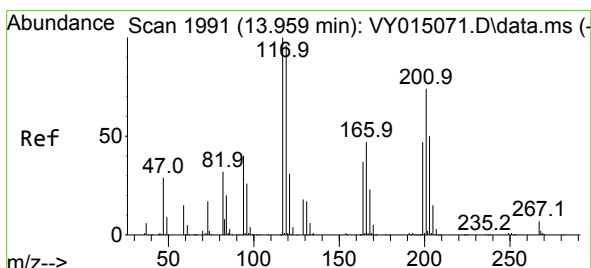
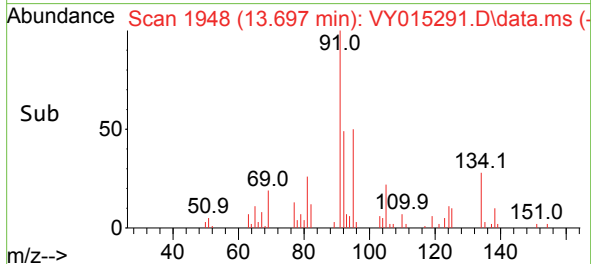
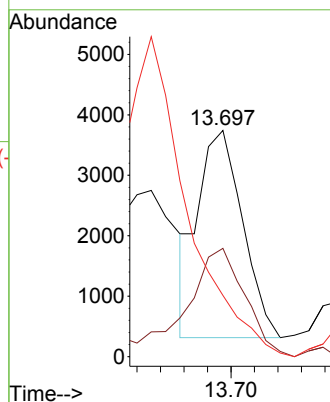
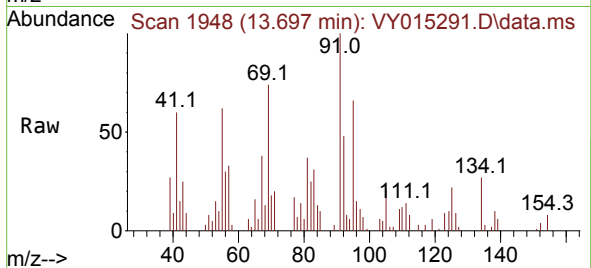
Tgt Ion: 91 Resp: 4491

Ion Ratio Lower Upper

91 100

92 72.1 25.4 76.0

134 0.0 12.6 37.6#



#90

Hexachloroethane

Concen: 17.945 ug/l

RT: 13.971 min Scan# 1993

Delta R.T. 0.012 min

Lab File: VY015291.D

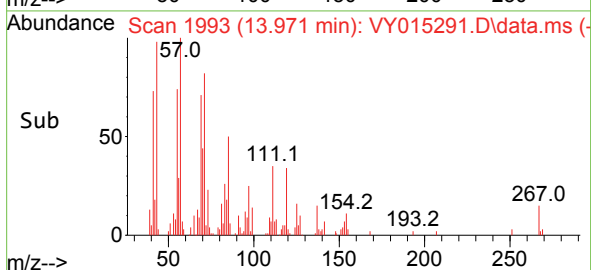
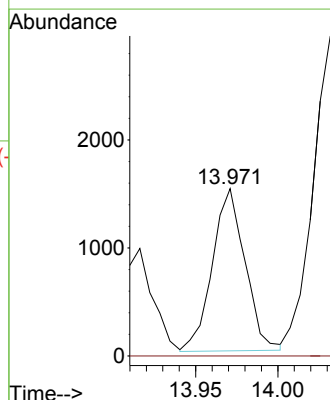
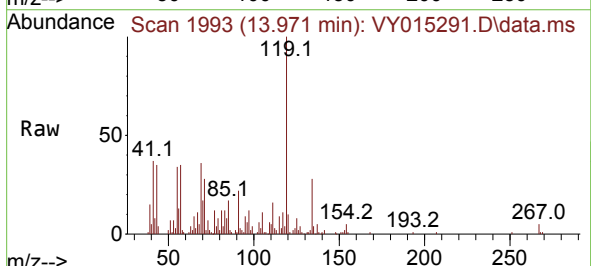
Acq: 23 Aug 2023 19:19

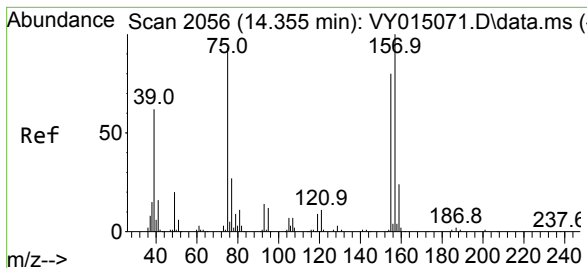
Tgt Ion: 117 Resp: 2087

Ion Ratio Lower Upper

117 100

201 0.0 41.6 124.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 5.919 ug/l

RT: 14.337 min Scan# 2056

Delta R.T. -0.018 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

Instrument :

MSVOA_Y

ClientSampleId :

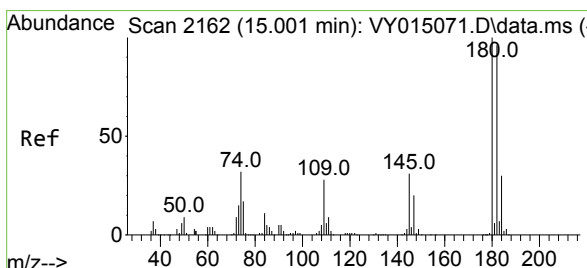
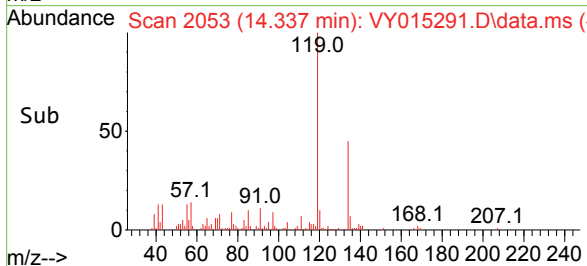
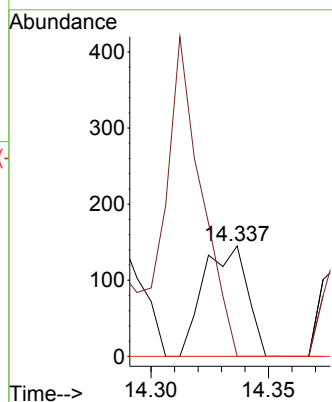
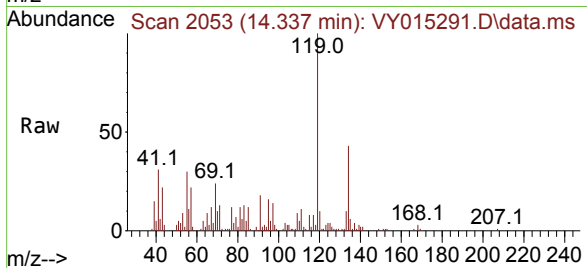
Tgt Ion: 75 Resp: 189

Ion Ratio Lower Upper

75 100

155 0.0 41.5 124.6#

157 0.0 51.8 155.5#



#93

1,2,4-Trichlorobenzene

Concen: 1.727 ug/l

RT: 15.013 min Scan# 2164

Delta R.T. 0.006 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

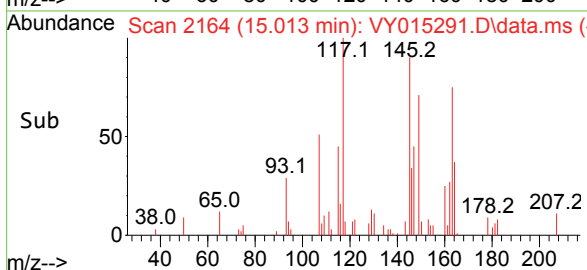
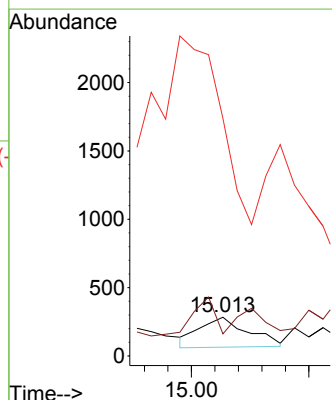
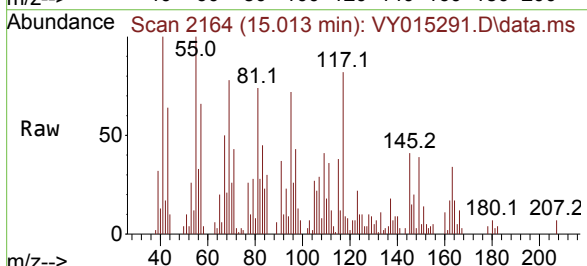
Tgt Ion:180 Resp: 317

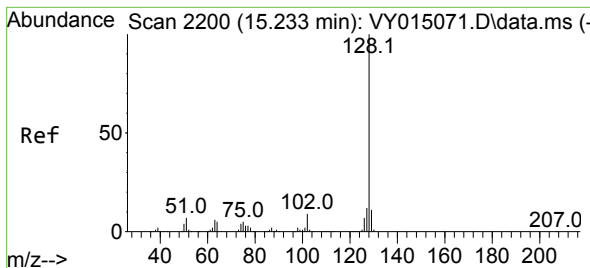
Ion Ratio Lower Upper

180 100

182 195.0 47.0 141.2#

145 1815.1 14.5 43.5#





#95

Naphthalene

Concen: 9.051 ug/l

RT: 15.233 min Scan# 21

Delta R.T. 0.000 min

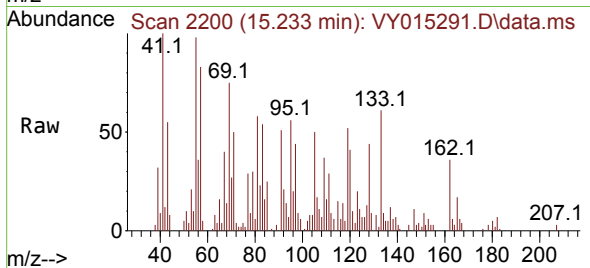
Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

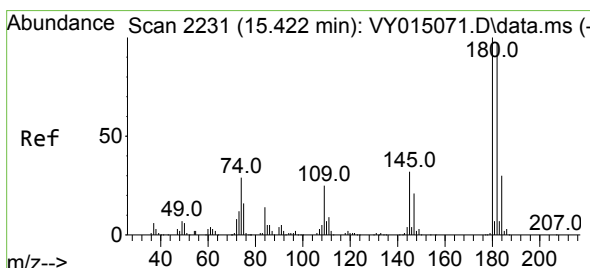
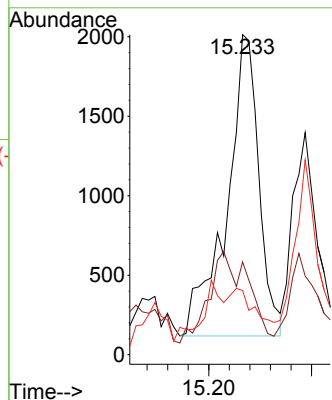
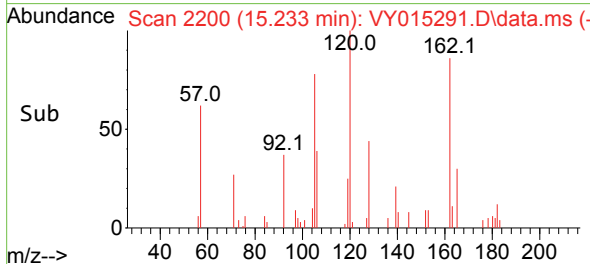
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128	Resp:	4138
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.8 16.2#
129	0.0	8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 5.539 ug/l

RT: 15.440 min Scan# 2234

Delta R.T. 0.019 min

Lab File: VY015291.D

Acq: 23 Aug 2023 19:19

Tgt Ion:180	Resp:	918
Ion Ratio	Lower	Upper
180	100	
182	0.0	47.3 141.8#
145	436.4	15.4 46.2#

