

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091523\
 Data File : VY015602.D
 Acq On : 16 Sep 2023 05:07
 Operator : SY/MD
 Sample : 04419-14
 Misc : 5.41g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 16 05:31:12 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)

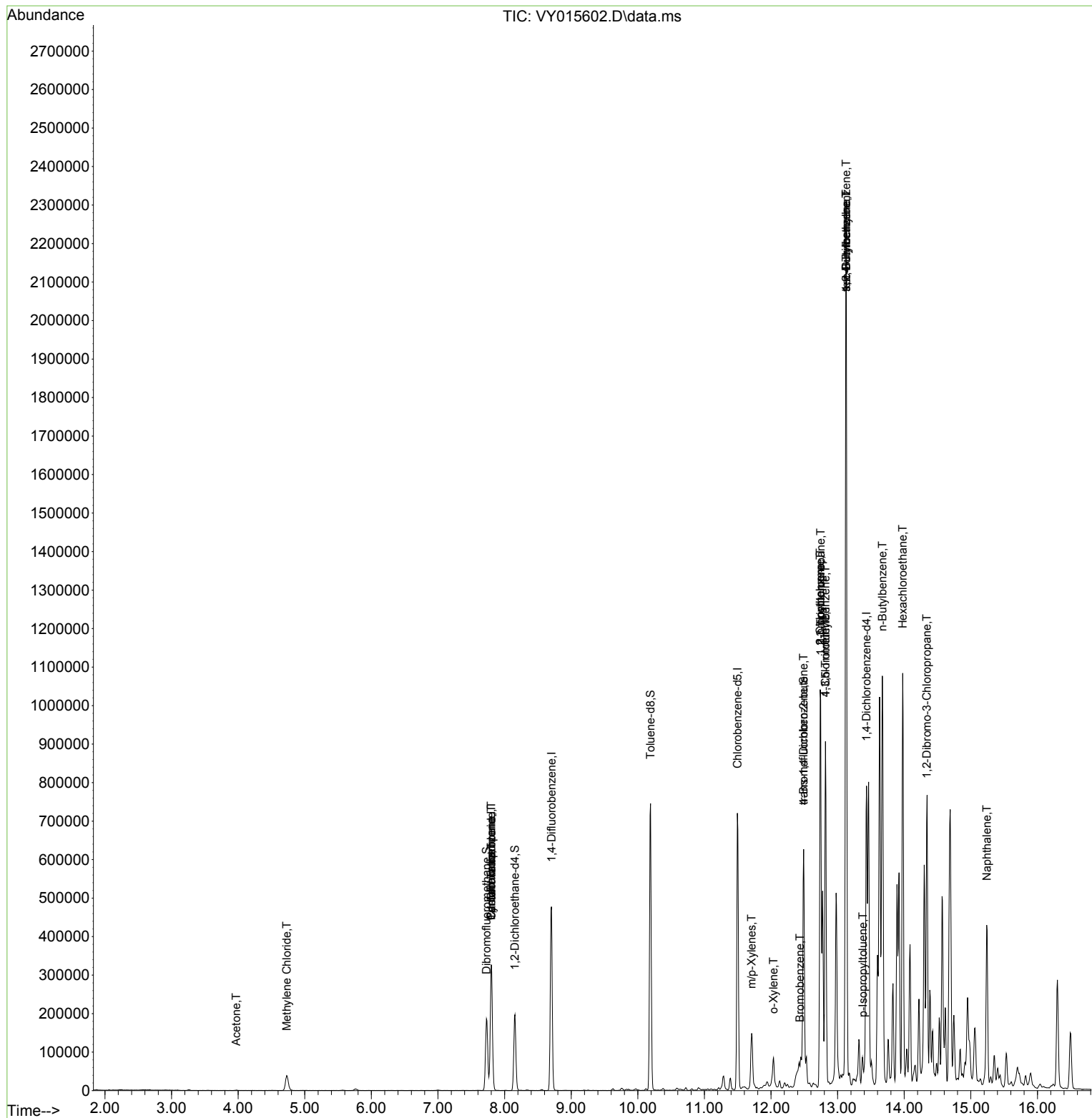
Internal Standards						
1) Pentafluorobenzene	7.801	168	256895	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.703	114	425051	50.000	ug/l	0.02
63) Chlorobenzene-d5	11.495	117	390895	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	187674	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	154537	56.116	ug/l	0.02
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.240%			
35) Dibromofluoromethane	7.728	113	134524	54.948	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.900%			
50) Toluene-d8	10.191	98	494477	55.773	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery = 111.540%			
62) 4-Bromofluorobenzene	12.489	95	181189	55.050	ug/l	0.01
Spiked Amount 50.000	Range 30 - 143		Recovery = 110.100%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.972	59	341	Below Cal	#	89
16) Acetone	3.972	43	1711	1.489	ug/l	96
20) Methylene Chloride	4.728	84	30105	2.335	ug/l	85
31) Cyclohexane	7.801	56	5126	1.048	ug/l #	1
36) 1,1-Dichloropropene	7.801	75	19000	4.420	ug/l #	51
38) Carbon Tetrachloride	7.801	117	25343	5.708	ug/l #	16
68) m/p-Xylenes	11.709	106	41760	7.123	ug/l	98
69) o-Xylene	12.038	106	18872	3.368	ug/l	98
76) 1,2,3-Trichloropropane	12.745	75	5778	2.322	ug/l #	100
77) Bromobenzene	12.434	156	21949	6.574	ug/l #	1
78) n-propylbenzene	12.739	91	84567	4.958	ug/l #	1
79) 2-Chlorotoluene	12.739	91	84567	8.839	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.818	105	431630	36.607	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.489	75	94535	83.791	ug/l #	11
82) 4-Chlorotoluene	12.818	91	47126	4.739	ug/l #	41
83) tert-Butylbenzene	13.129	119	149953	14.520	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.129	105	1225762	104.702	ug/l	97
85) sec-Butylbenzene	13.129	105	1225762	79.575	ug/l #	56
86) p-Isopropyltoluene	13.379	119	18282	1.416	ug/l	96
89) n-Butylbenzene	13.672	91	107585	8.854	ug/l #	1
90) Hexachloroethane	13.977	117	50094	21.695	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.336	75	2725	4.093	ug/l #	3
95) Naphthalene	15.239	128	335558	35.859	ug/l	99

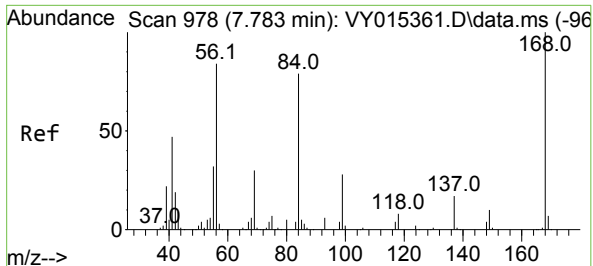
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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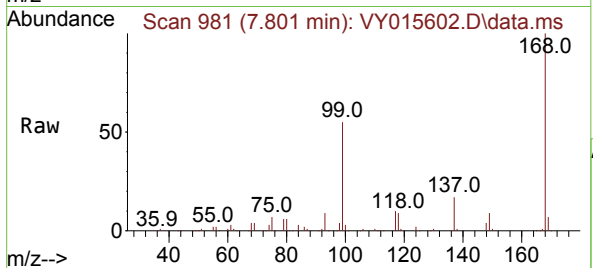
Quant Time: Sep 16 05:31:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082923S.M
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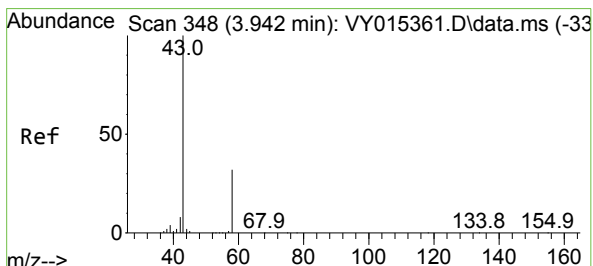
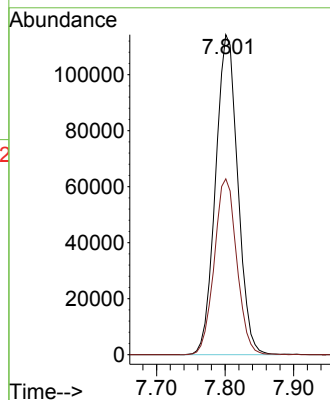
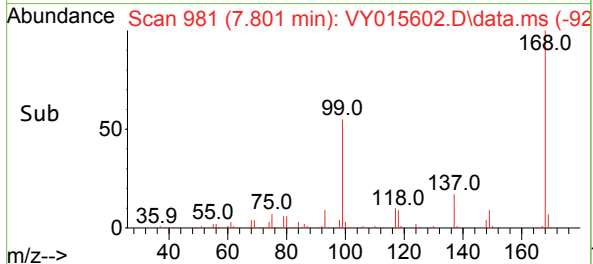


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Instrument :
MSVOA_Y
ClientSampleId :

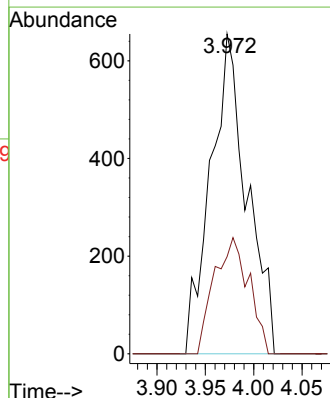
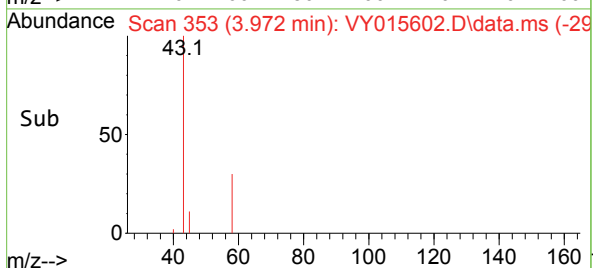
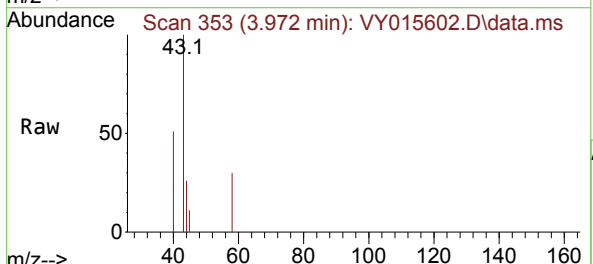


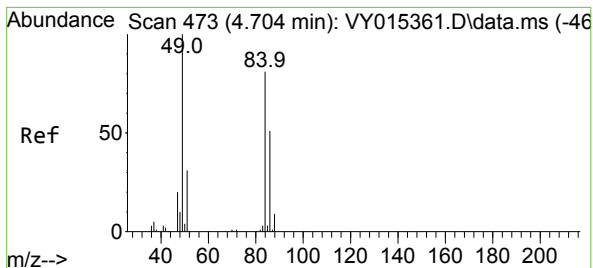
Tgt Ion:168 Resp: 256895
Ion Ratio Lower Upper
168 100
99 54.9 43.4 65.0



#16
Acetone
Concen: 1.489 ug/l
RT: 3.972 min Scan# 353
Delta R.T. 0.030 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Tgt Ion: 43 Resp: 1711
Ion Ratio Lower Upper
43 100
58 30.4 22.7 34.1





#20

Methylene Chloride

Concen: 2.335 ug/l

RT: 4.728 min Scan# 41

Delta R.T. 0.024 min

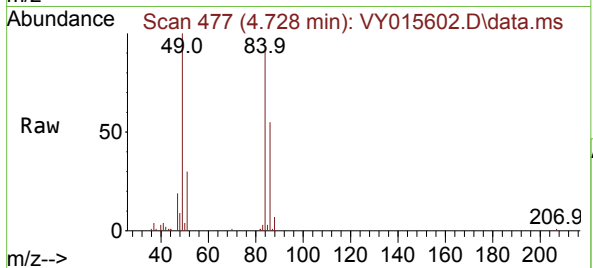
Lab File: VY015602.D

Acq: 16 Sep 2023 05:07

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 84 Resp: 30105

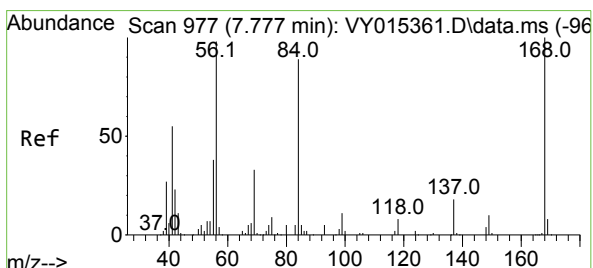
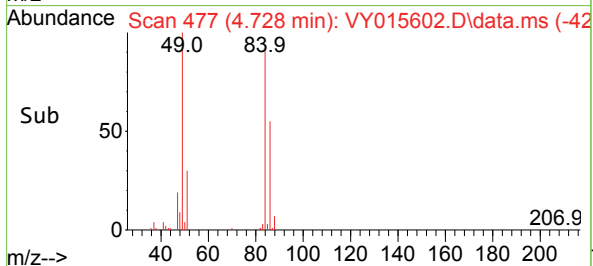
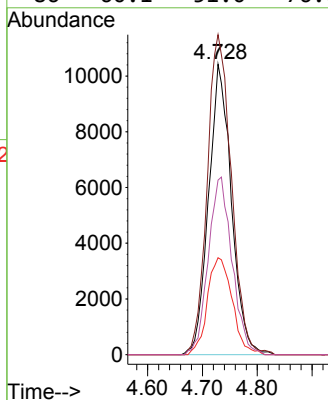
Ion Ratio Lower Upper

84 100

49 110.2 106.9 160.3

51 33.4 33.2 49.8

86 60.1 51.0 76.6



#31

Cyclohexane

Concen: 1.048 ug/l

RT: 7.801 min Scan# 981

Delta R.T. 0.018 min

Lab File: VY015602.D

Acq: 16 Sep 2023 05:07

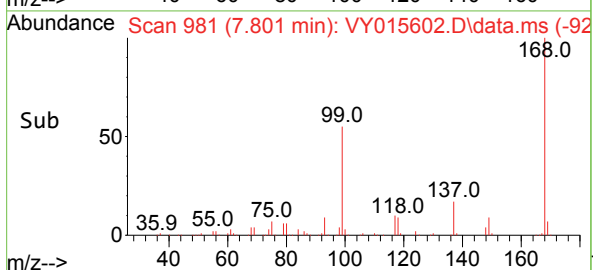
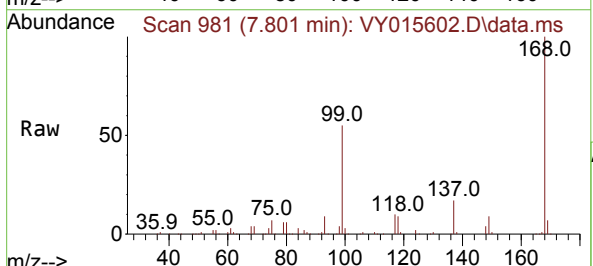
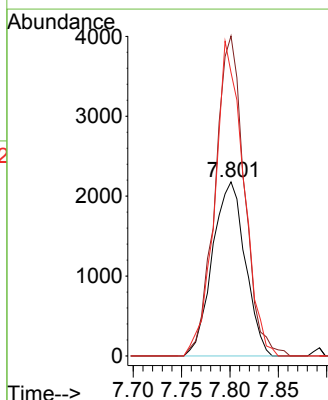
Tgt Ion: 56 Resp: 5126

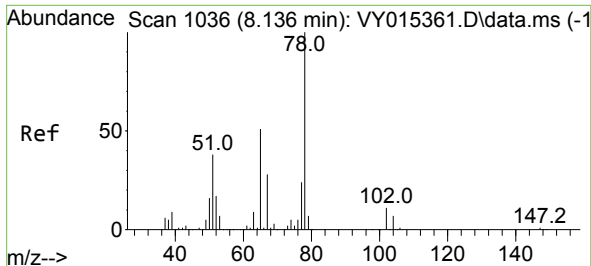
Ion Ratio Lower Upper

56 100

69 183.9 27.8 41.6#

84 162.9 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 56.116 ug/l

RT: 8.155 min Scan# 110

Delta R.T. 0.018 min

Lab File: VY015602.D

Acq: 16 Sep 2023 05:07

Instrument :

MSVOA_Y

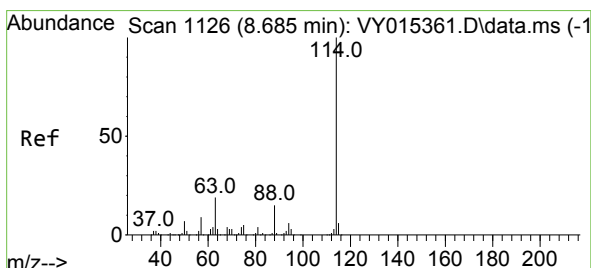
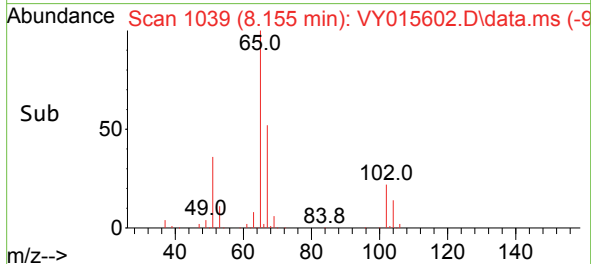
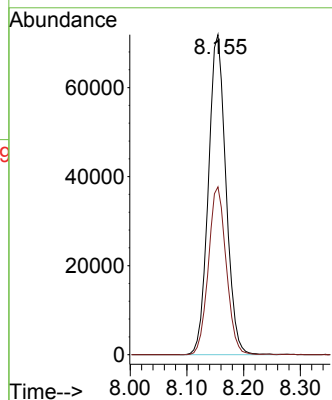
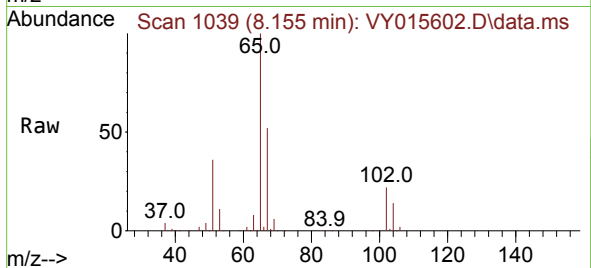
ClientSampleId :

Tgt Ion: 65 Resp: 154537

Ion Ratio Lower Upper

65 100

67 53.2 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.703 min Scan# 1129

Delta R.T. 0.018 min

Lab File: VY015602.D

Acq: 16 Sep 2023 05:07

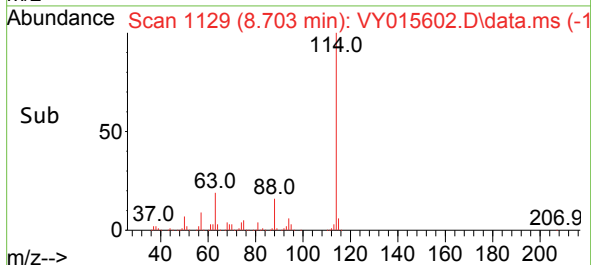
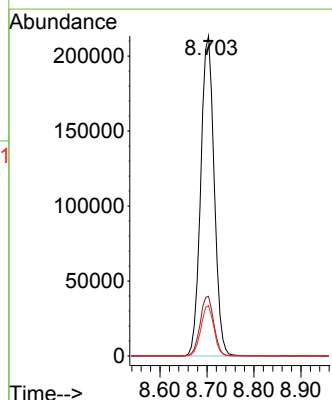
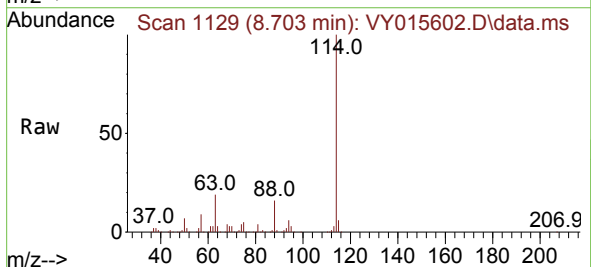
Tgt Ion: 114 Resp: 425051

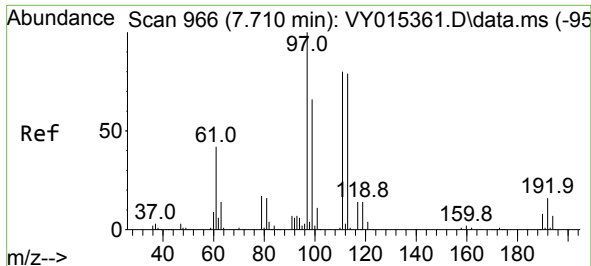
Ion Ratio Lower Upper

114 100

63 18.6 0.0 42.4

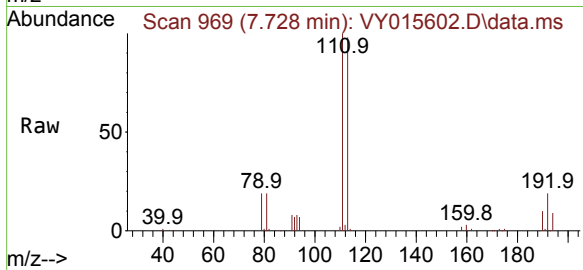
88 15.7 0.0 30.6



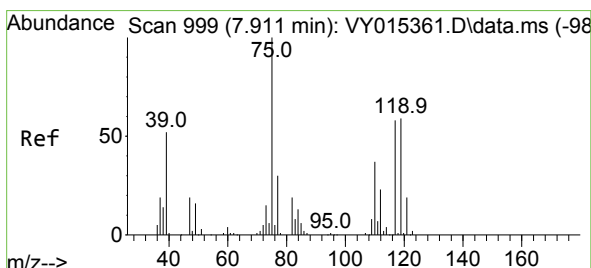
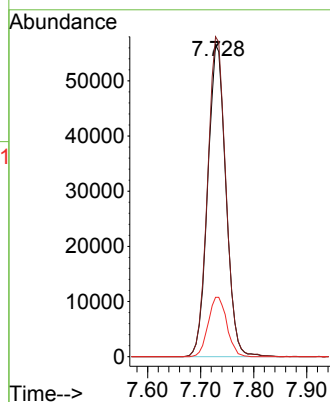
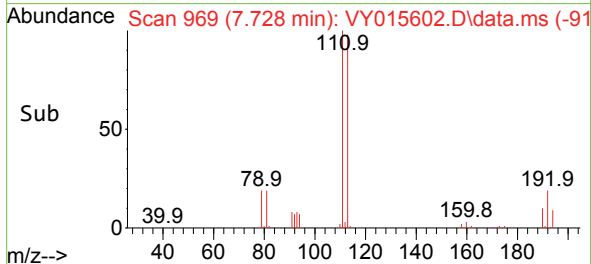


#35
Dibromofluoromethane
Concen: 54.948 ug/l
RT: 7.728 min Scan# 901
Delta R.T. 0.012 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Instrument :
MSVOA_Y
ClientSampleId :

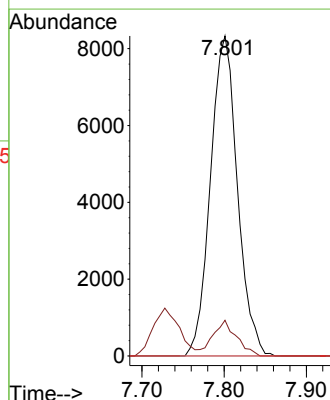
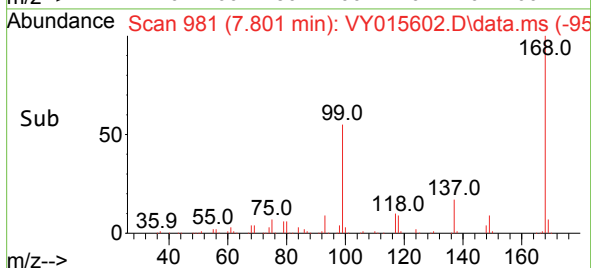
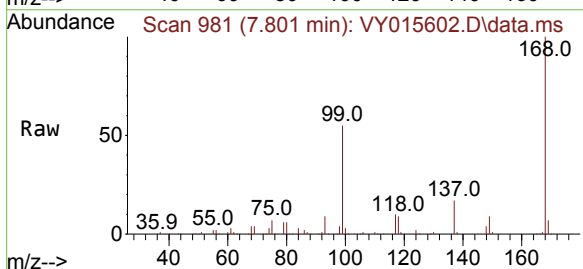


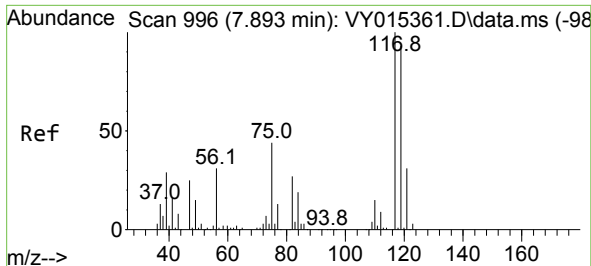
Tgt Ion:113 Resp: 134524
Ion Ratio Lower Upper
113 100
111 103.1 81.3 121.9
192 19.5 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.420 ug/l
RT: 7.801 min Scan# 981
Delta R.T. -0.110 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

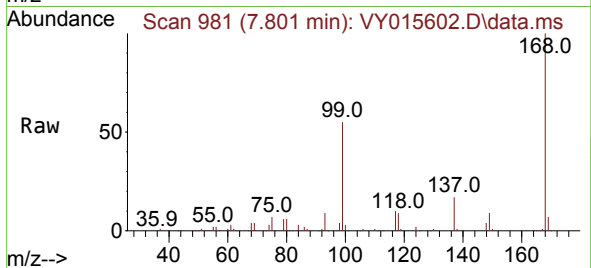
Tgt Ion: 75 Resp: 19000
Ion Ratio Lower Upper
75 100
110 10.0 17.8 53.5#
77 0.0 24.4 36.6#



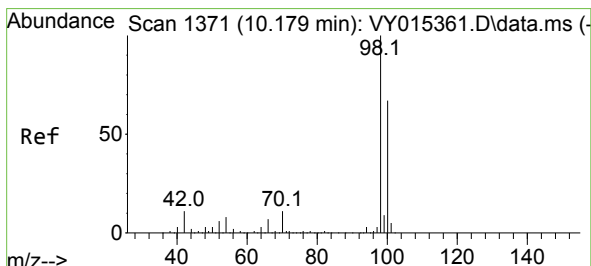
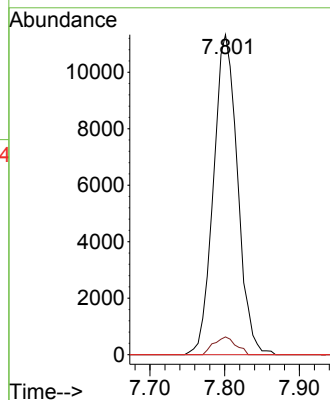
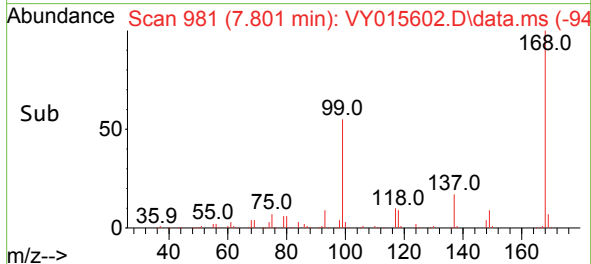


#38
Carbon Tetrachloride
Concen: 5.708 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.091 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Instrument :
MSVOA_Y
ClientSampleId :

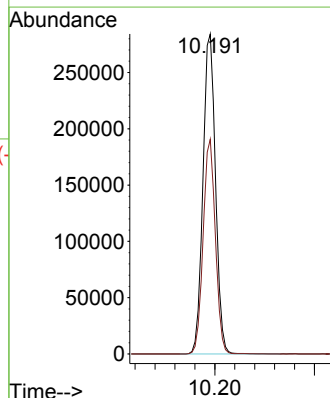
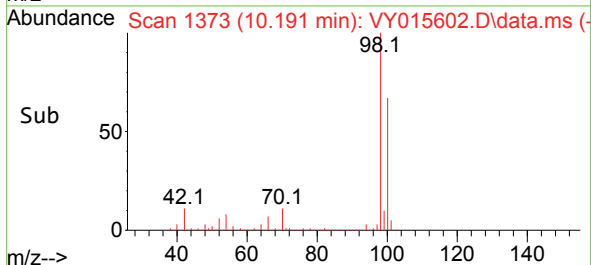
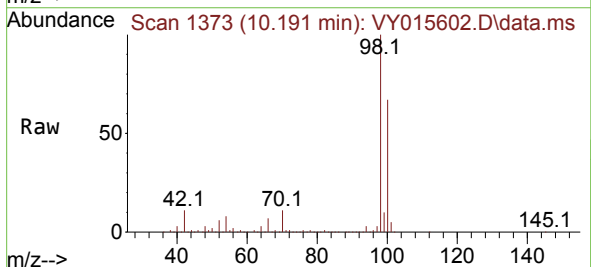


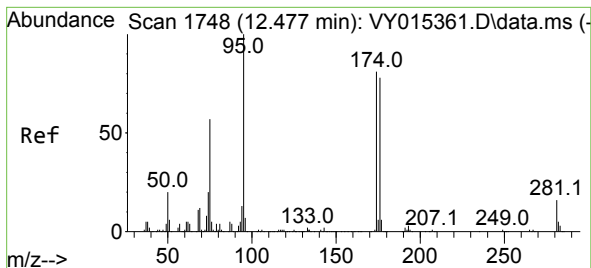
Tgt Ion:117 Resp: 25343
Ion Ratio Lower Upper
117 100
119 5.6 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 55.773 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.012 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Tgt Ion: 98 Resp: 494477
Ion Ratio Lower Upper
98 100
100 65.6 50.1 75.1

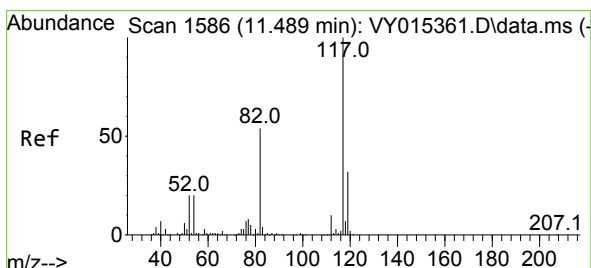
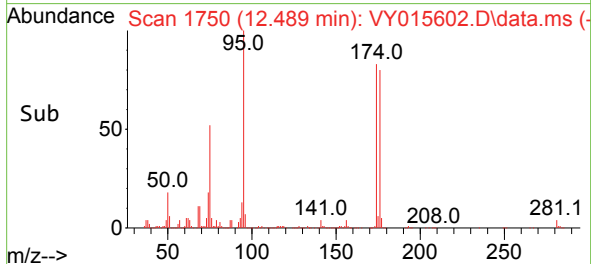
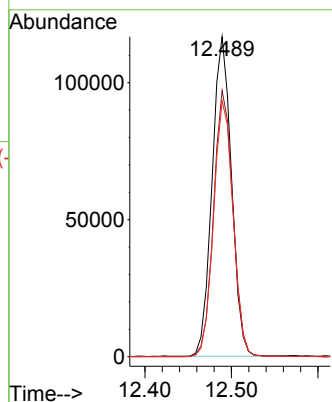
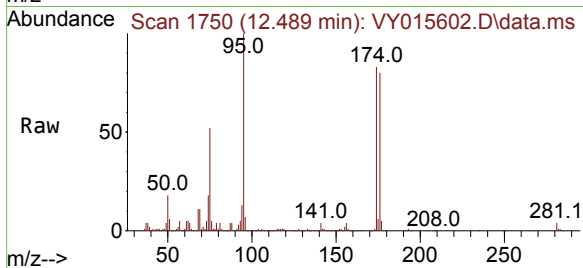




#62
4-Bromofluorobenzene
Concen: 55.050 ug/l
RT: 12.489 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

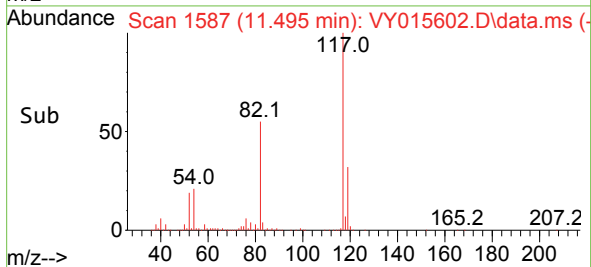
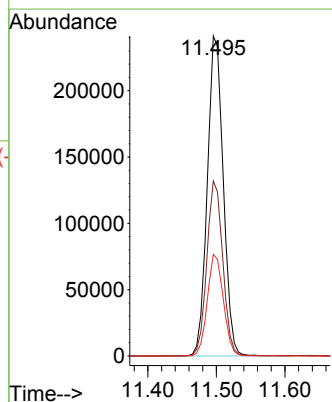
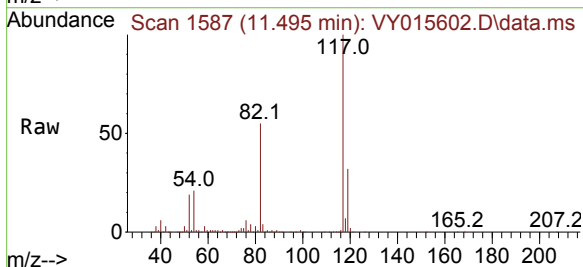
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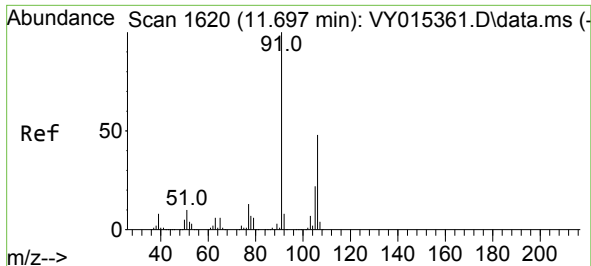
Tgt Ion: 95 Resp: 181189
Ion Ratio Lower Upper
95 100
174 83.3 0.0 178.2
176 80.4 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Tgt Ion: 117 Resp: 390895
Ion Ratio Lower Upper
117 100
82 54.7 43.4 65.0
119 31.8 26.3 39.5

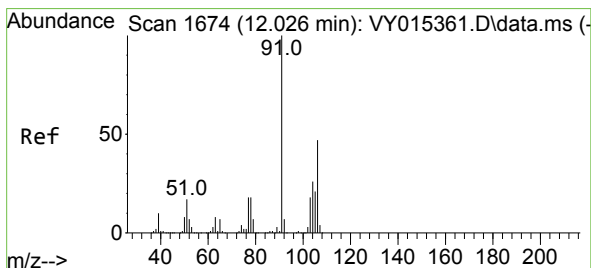
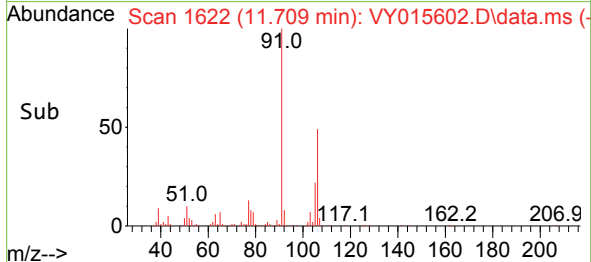
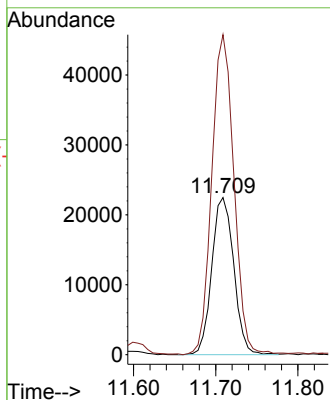
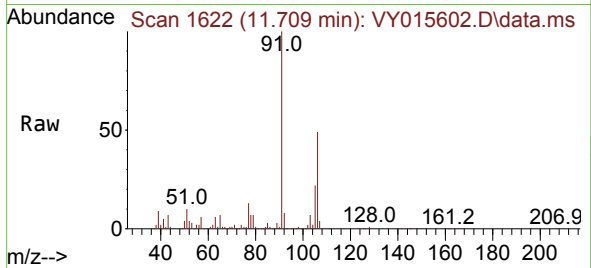




#68
m/p-Xylenes
Concen: 7.123 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

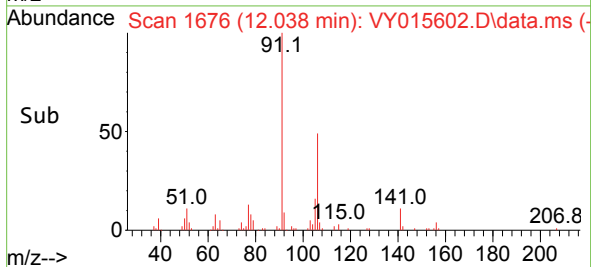
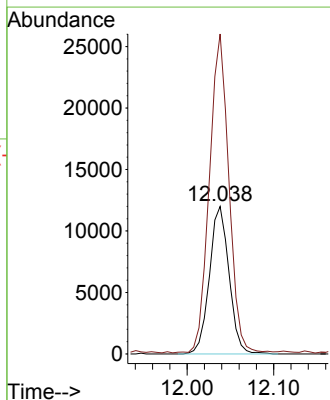
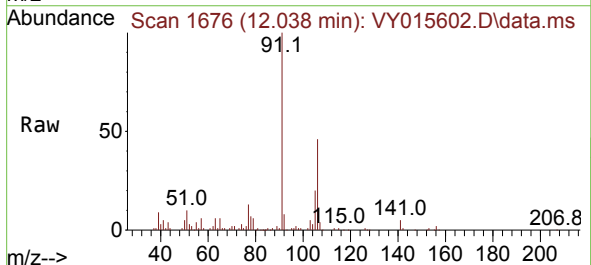
Instrument :
MSVOA_Y
ClientSampleId :

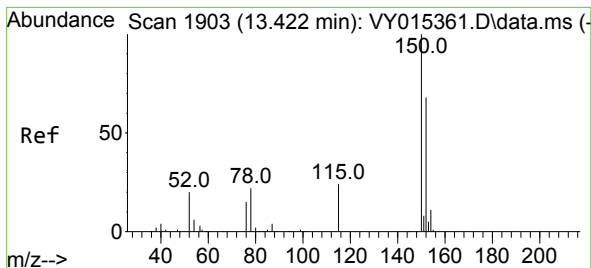
Tgt Ion:106 Resp: 41760
Ion Ratio Lower Upper
106 100
91 205.2 166.1 249.1



#69
o-Xylene
Concen: 3.368 ug/l
RT: 12.038 min Scan# 1676
Delta R.T. 0.012 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Tgt Ion:106 Resp: 18872
Ion Ratio Lower Upper
106 100
91 212.7 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1903

Delta R.T. 0.012 min

Lab File: VY015602.D

Acq: 16 Sep 2023 05:07

Instrument :

MSVOA_Y

ClientSampleId :

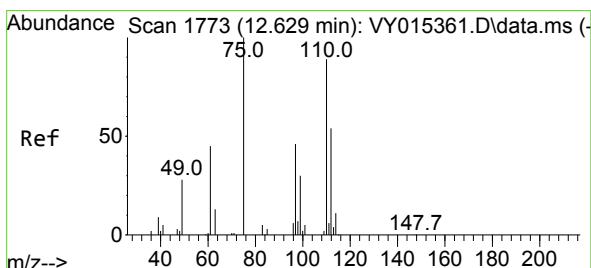
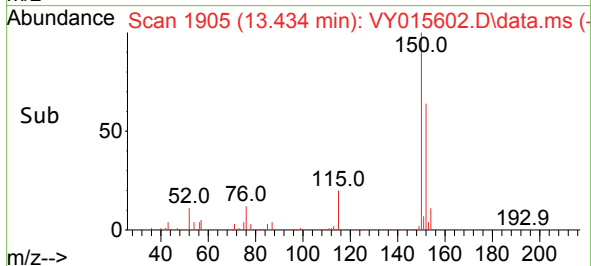
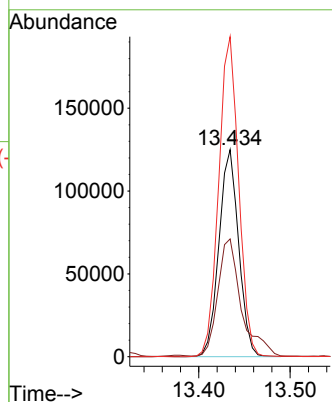
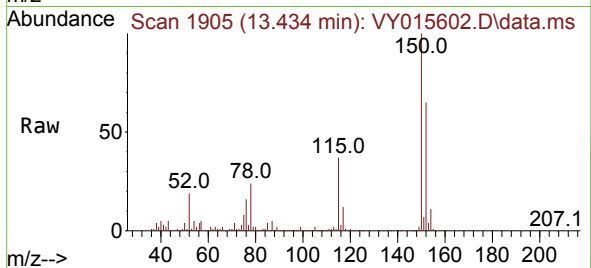
Tgt Ion:152 Resp: 187674

Ion Ratio Lower Upper

152 100

115 67.3 28.8 86.5

150 156.6 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 2.322 ug/l

RT: 12.745 min Scan# 1792

Delta R.T. 0.116 min

Lab File: VY015602.D

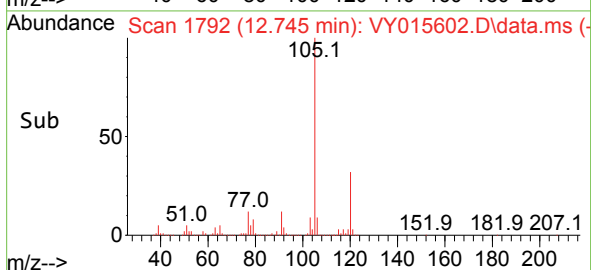
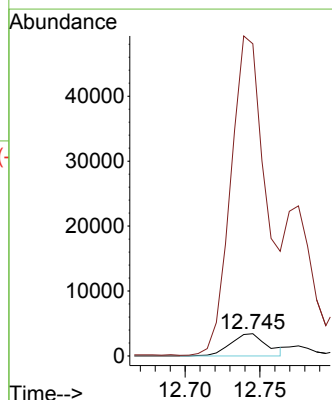
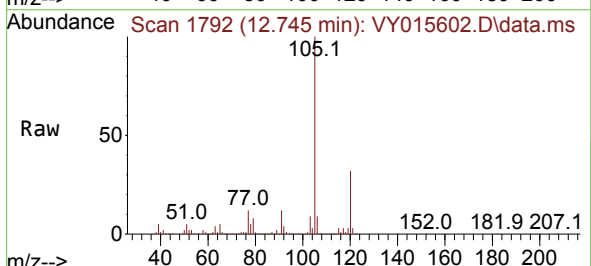
Acq: 16 Sep 2023 05:07

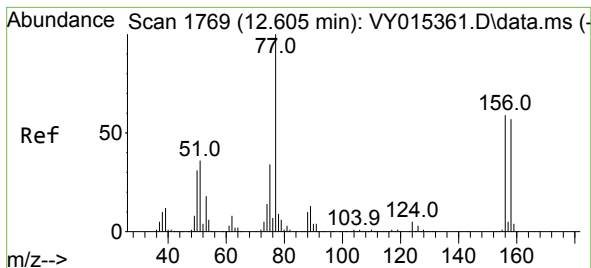
Tgt Ion: 75 Resp: 5778

Ion Ratio Lower Upper

75 100

77 1387.4 0.0 0.0#





#77

Bromobenzene

Concen: 6.574 ug/l

RT: 12.434 min Scan# 1741

Delta R.T. -0.171 min

Lab File: VY015602.D

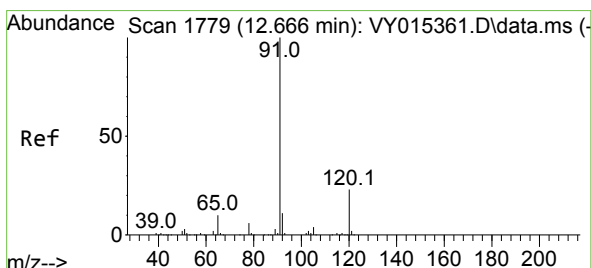
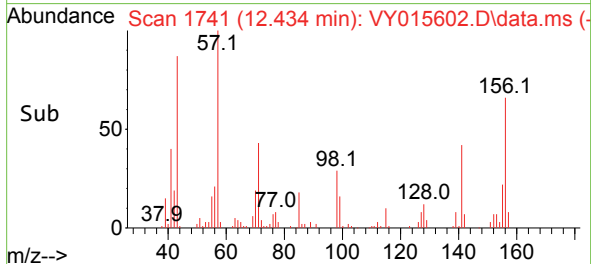
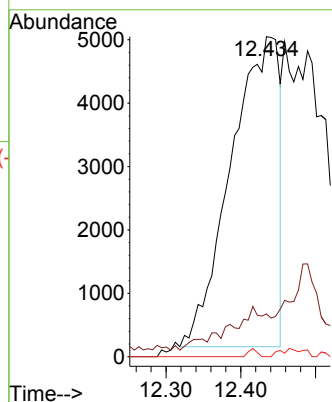
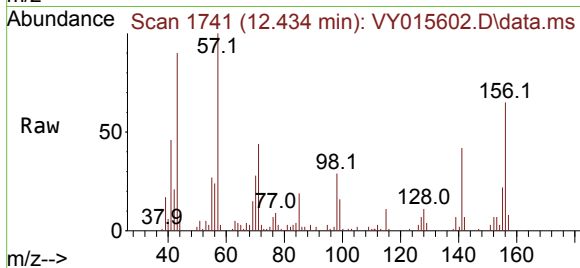
Acq: 16 Sep 2023 05:07

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	156	Resp:	21949
Ion Ratio	Lower	Upper	
156	100		
77	0.0	92.8	278.6#
158	0.4	48.4	145.3#



#78

n-propylbenzene

Concen: 4.958 ug/l

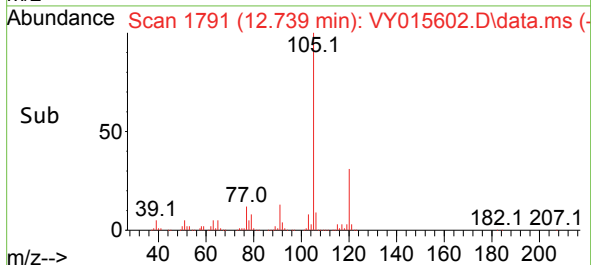
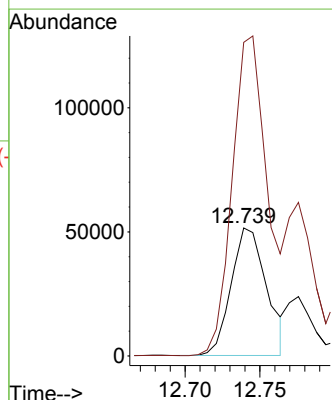
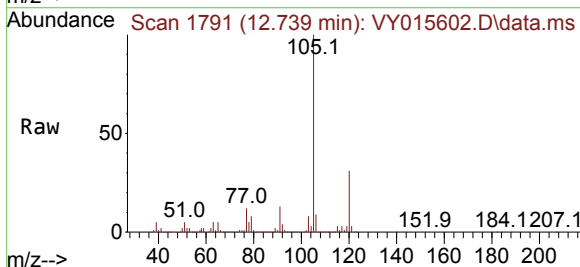
RT: 12.739 min Scan# 1791

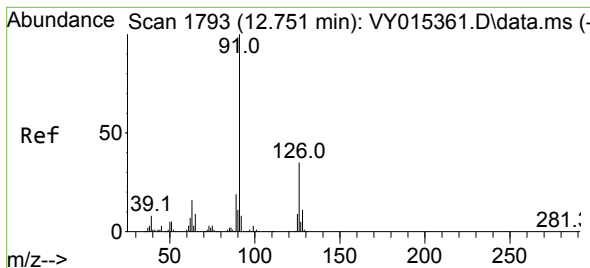
Delta R.T. 0.073 min

Lab File: VY015602.D

Acq: 16 Sep 2023 05:07

Tgt Ion:	91	Resp:	84567
Ion Ratio	Lower	Upper	
91	100		
120	248.3	11.5	34.4#

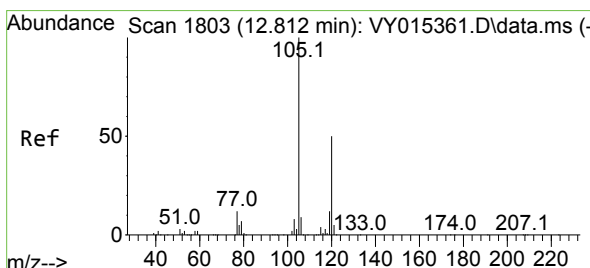
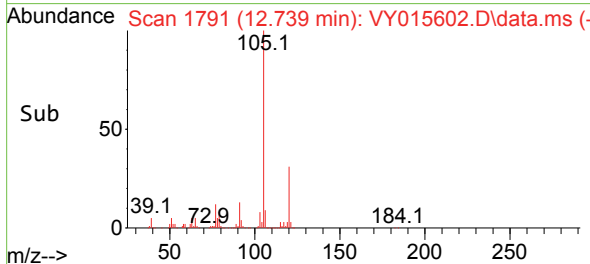
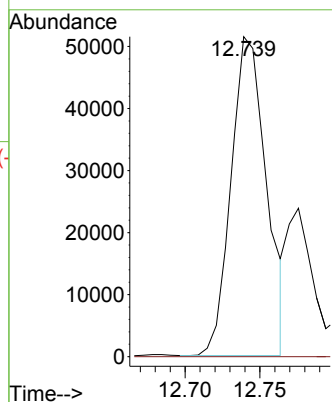
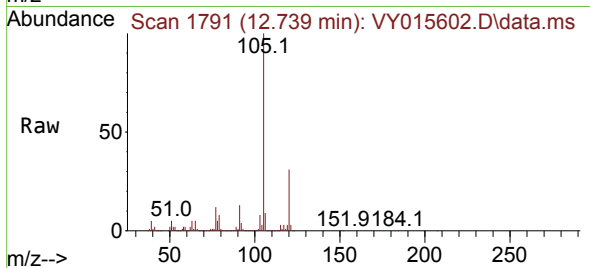




#79
2-Chlorotoluene
Concen: 8.839 ug/l
RT: 12.739 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

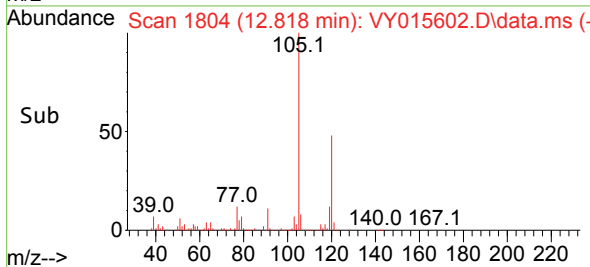
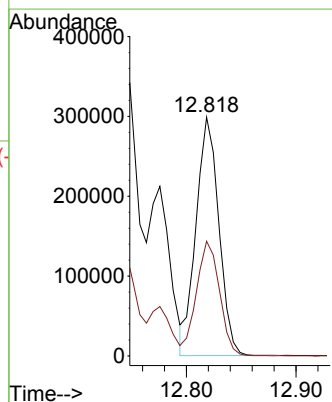
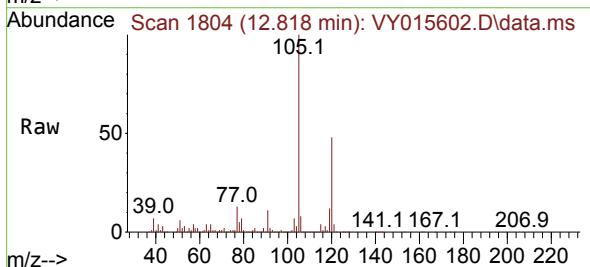
Instrument :
MSVOA_Y
ClientSampleId :

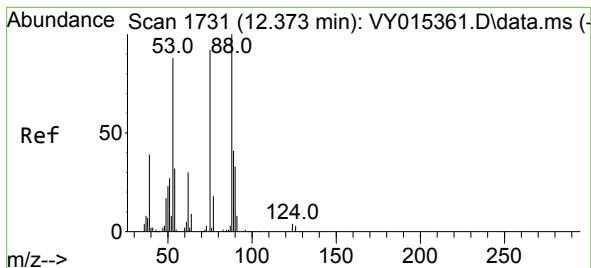
Tgt Ion: 91 Resp: 84567
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.7#



#80
1,3,5-Trimethylbenzene
Concen: 36.607 ug/l
RT: 12.818 min Scan# 1804
Delta R.T. 0.006 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Tgt Ion: 105 Resp: 431630
Ion Ratio Lower Upper
105 100
120 48.8 23.9 71.7

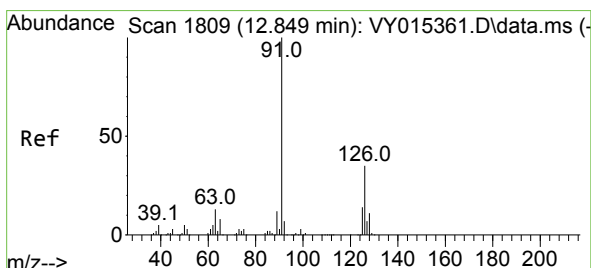
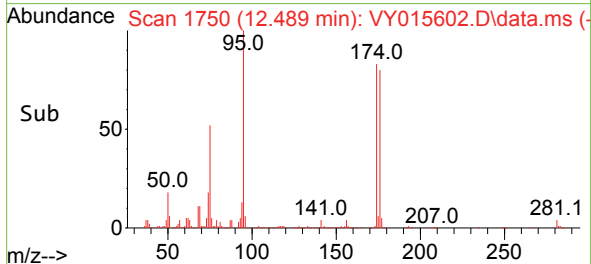
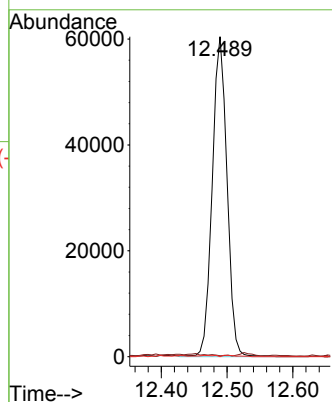
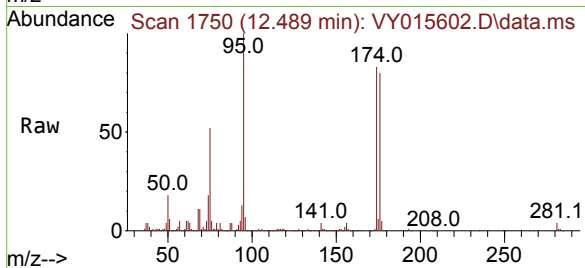




#81
trans-1,4-Dichloro-2-butene
Concen: 83.791 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.110 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

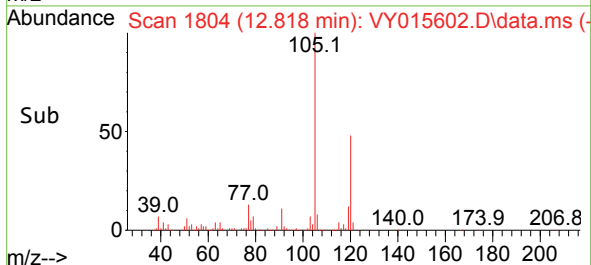
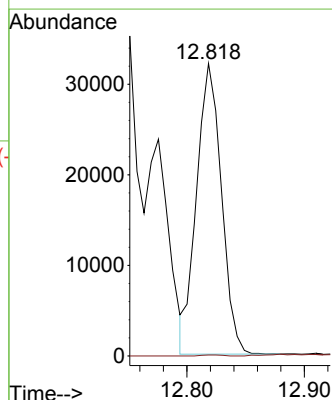
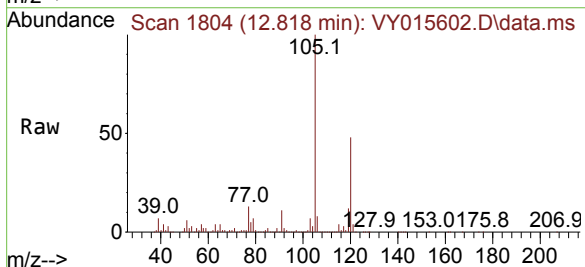
Instrument :
MSVOA_Y
ClientSampleId :

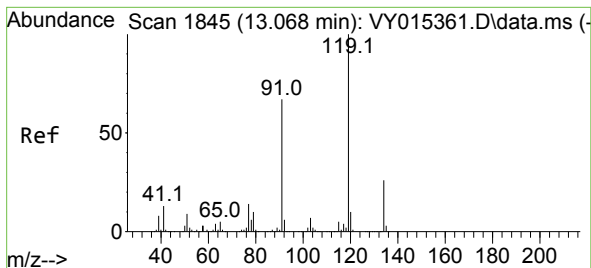
Tgt Ion: 75 Resp: 94535
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.4 37.4 56.0#



#82
4-Chlorotoluene
Concen: 4.739 ug/l
RT: 12.818 min Scan# 1804
Delta R.T. -0.031 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Tgt Ion: 91 Resp: 47126
Ion Ratio Lower Upper
91 100
126 0.3 17.2 51.6#





#83

tert-Butylbenzene

Concen: 14.520 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. 0.055 min

Lab File: VY015602.D

Acq: 16 Sep 2023 05:07

Instrument :

MSVOA_Y

ClientSampleId :

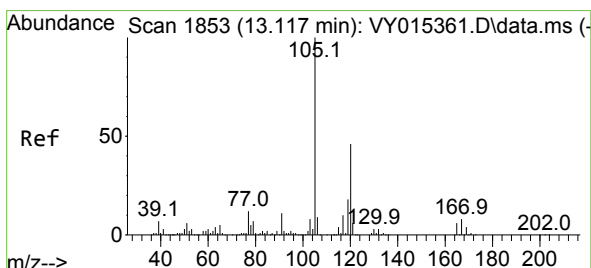
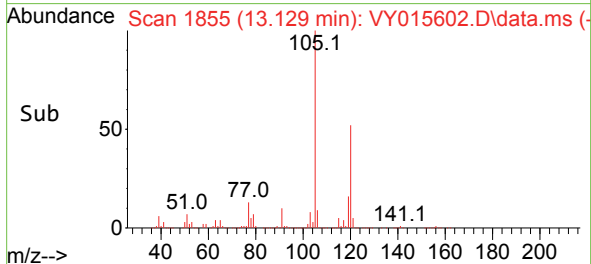
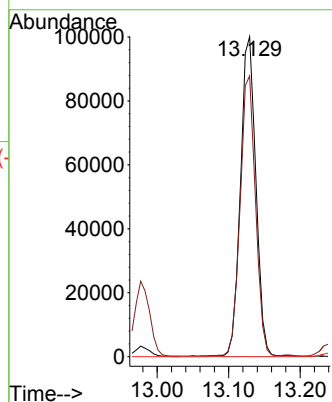
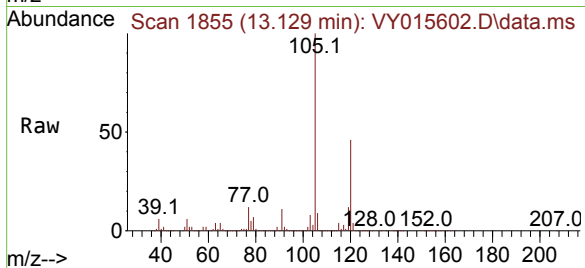
Tgt Ion:119 Resp: 149953

Ion Ratio Lower Upper

119 100

91 87.6 32.9 98.6

134 0.0 13.0 38.9#



#84

1,2,4-Trimethylbenzene

Concen: 104.702 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. 0.012 min

Lab File: VY015602.D

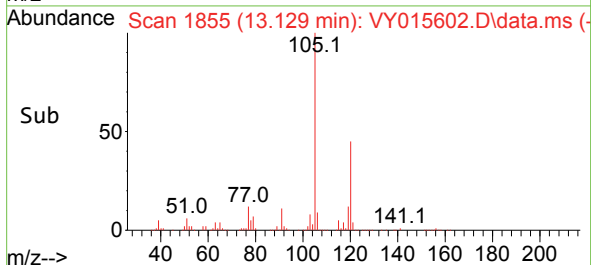
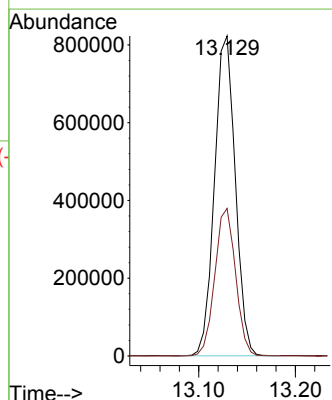
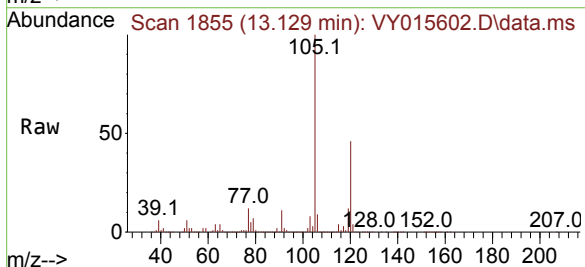
Acq: 16 Sep 2023 05:07

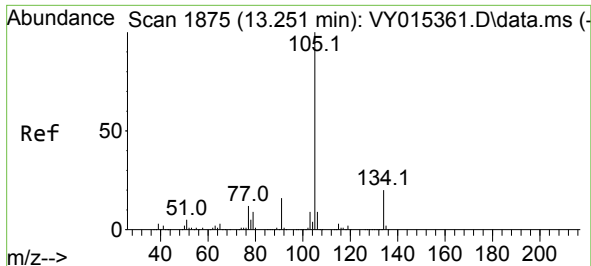
Tgt Ion:105 Resp: 1225762

Ion Ratio Lower Upper

105 100

120 46.0 22.2 66.6

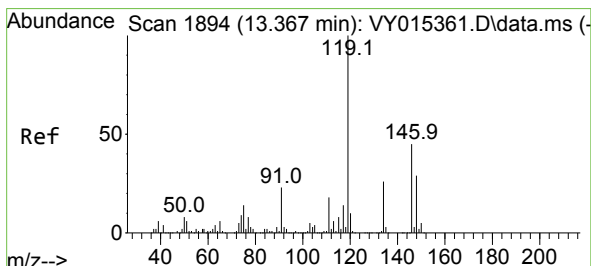
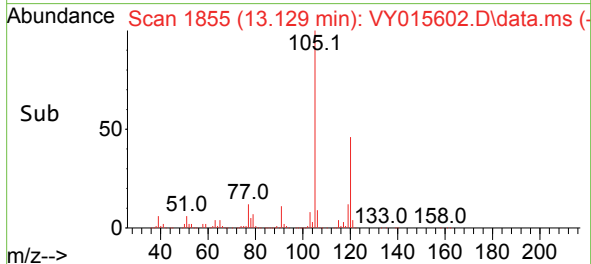
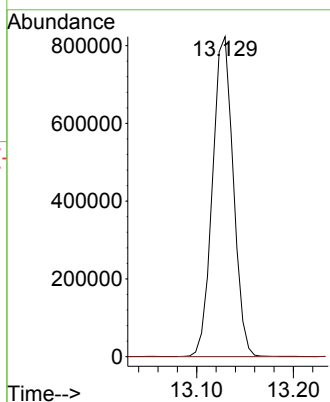
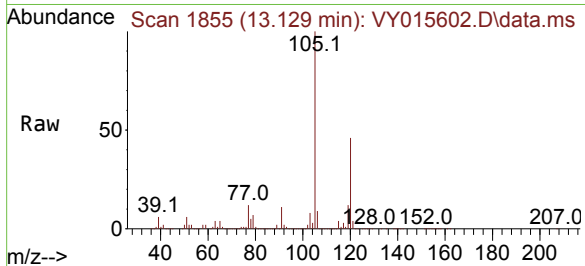




#85
 sec-Butylbenzene
 Concen: 79.575 ug/l
 RT: 13.129 min Scan# 1855
 Delta R.T. -0.122 min
 Lab File: VY015602.D
 Acq: 16 Sep 2023 05:07

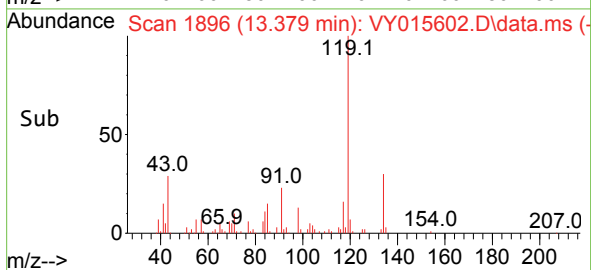
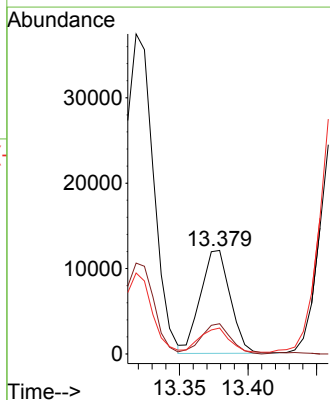
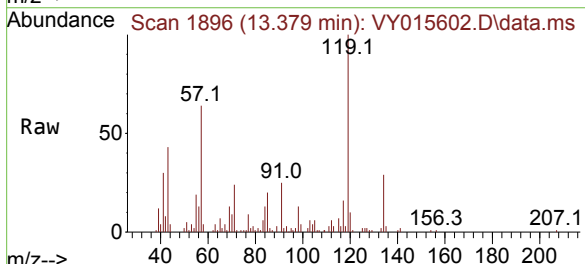
Instrument :
 MSVOA_Y
 ClientSampleId :

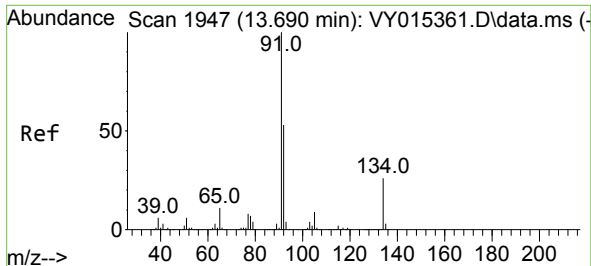
Tgt Ion:105 Resp: 1225762
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.6#



#86
 p-Isopropyltoluene
 Concen: 1.416 ug/l
 RT: 13.379 min Scan# 1896
 Delta R.T. 0.012 min
 Lab File: VY015602.D
 Acq: 16 Sep 2023 05:07

Tgt Ion:119 Resp: 18282
 Ion Ratio Lower Upper
 119 100
 134 28.9 13.3 39.8
 91 22.9 12.4 37.4

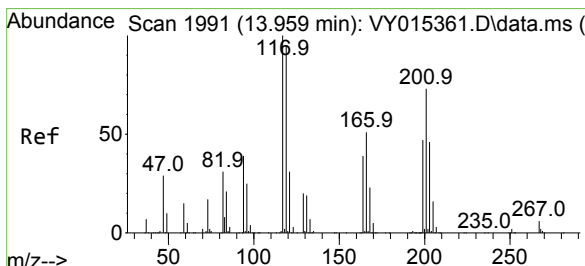
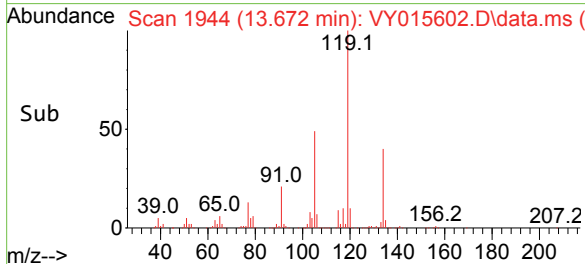
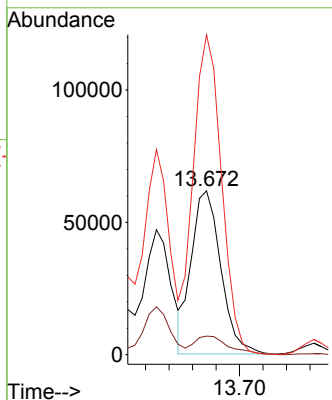
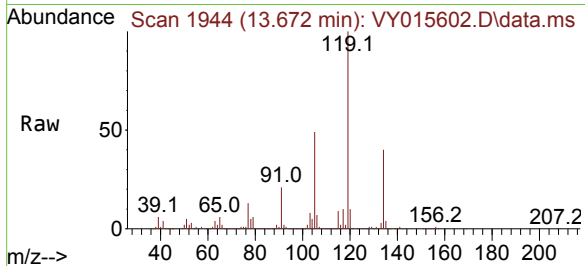




#89
n-Butylbenzene
Concen: 8.854 ug/l
RT: 13.672 min Scan# 1944
Delta R.T. -0.024 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

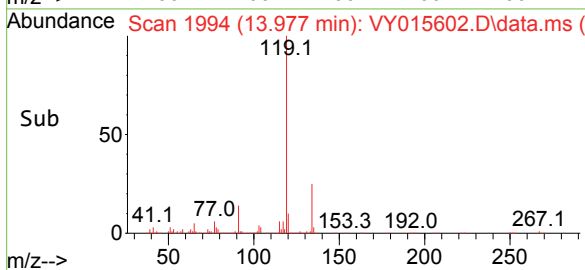
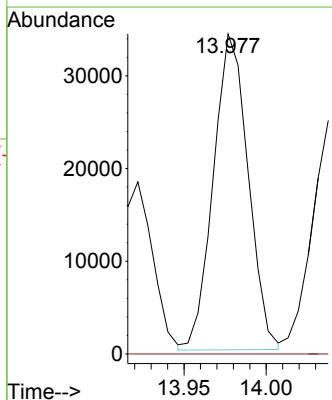
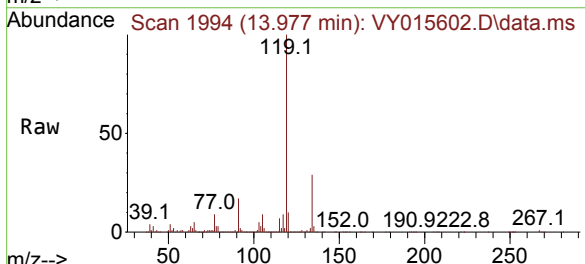
Instrument :
MSVOA_Y
ClientSampleId :

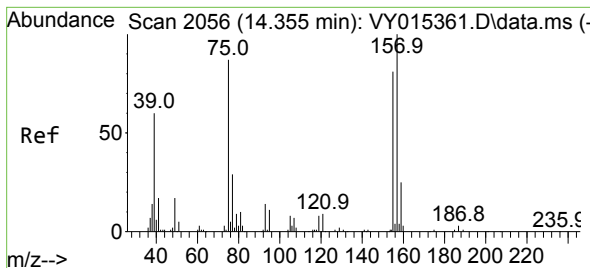
Tgt Ion: 91 Resp: 107585
Ion Ratio Lower Upper
91 100
92 13.2 25.4 76.0#
134 187.8 12.6 37.6#



#90
Hexachloroethane
Concen: 21.695 ug/l
RT: 13.977 min Scan# 1994
Delta R.T. 0.018 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Tgt Ion: 117 Resp: 50094
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#

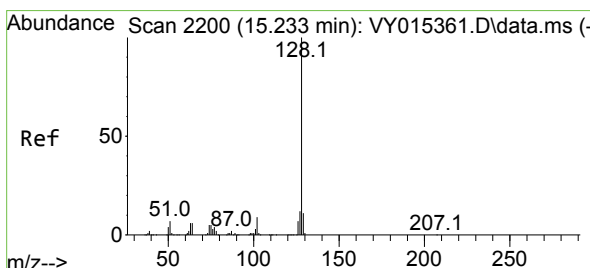
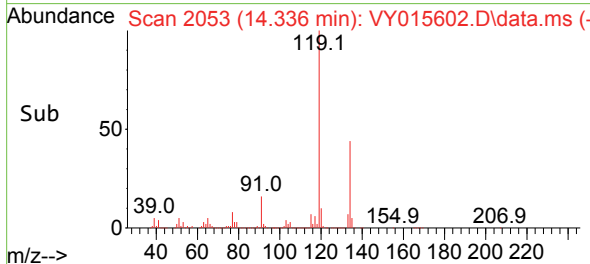
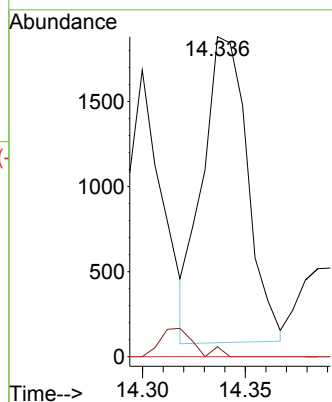
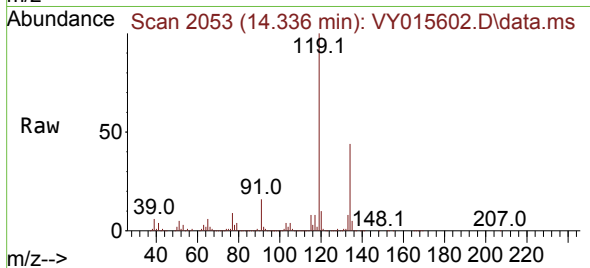




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.093 ug/l
RT: 14.336 min Scan# 2053
Delta R.T. -0.018 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 2725
Ion Ratio Lower Upper
75 100
155 0.0 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 35.859 ug/l
RT: 15.239 min Scan# 2201
Delta R.T. 0.006 min
Lab File: VY015602.D
Acq: 16 Sep 2023 05:07

Tgt Ion: 128 Resp: 335558
Ion Ratio Lower Upper
128 100
127 13.0 10.8 16.2
129 10.8 8.6 13.0

