

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091523\
 Data File : VY015605.D
 Acq On : 16 Sep 2023 06:18
 Operator : SY/MD
 Sample : 04419-19
 Misc : 5.57g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 52 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 16 07:03:08 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)

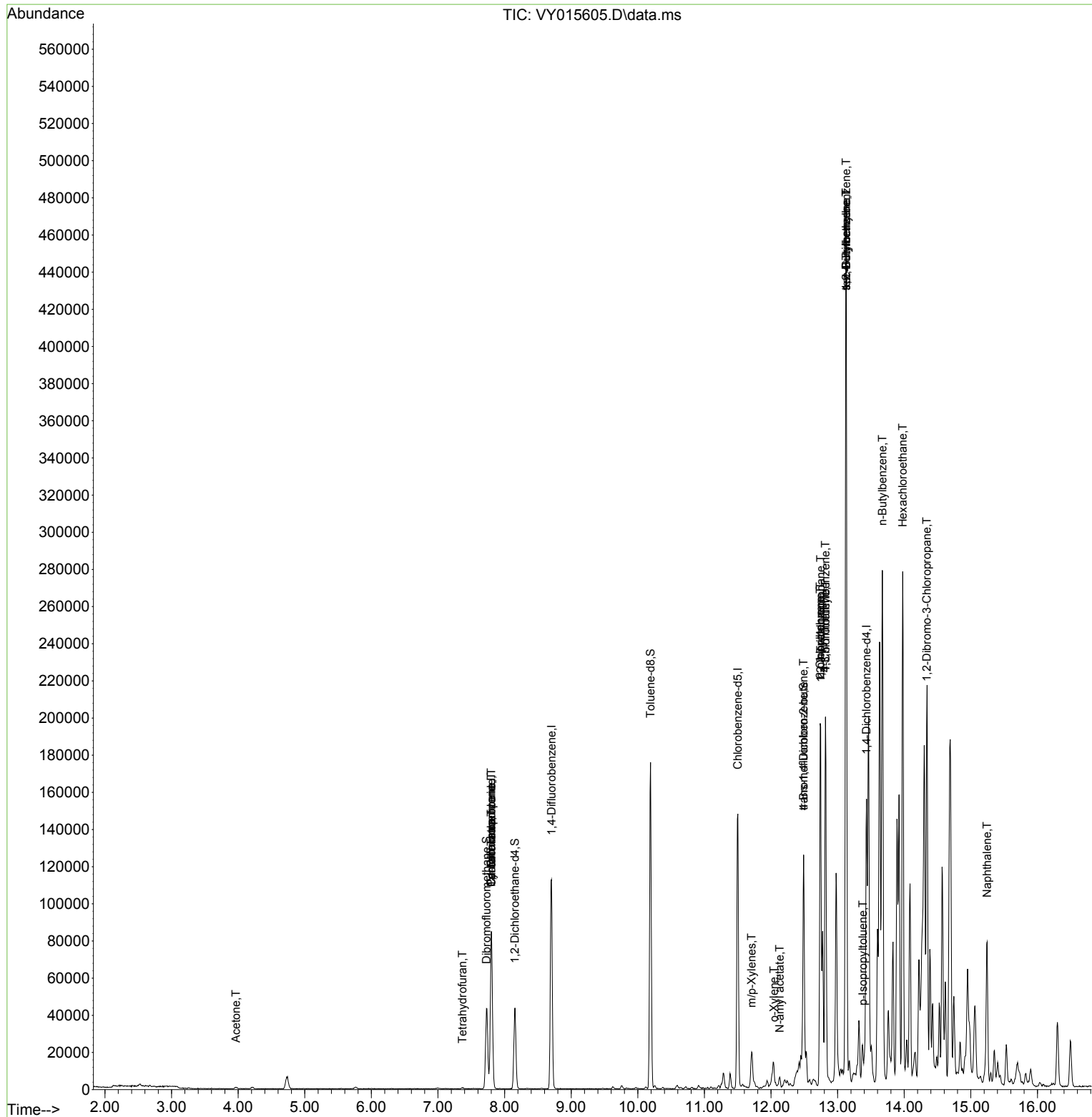
Internal Standards						
1) Pentafluorobenzene	7.801	168	66579	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.703	114	101009	50.000	ug/l	0.02
63) Chlorobenzene-d5	11.502	117	83077	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.434	152	35000	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	34101	47.779	ug/l	0.02
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.560%		
35) Dibromofluoromethane	7.728	113	30838	53.005	ug/l	0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	106.020%		
50) Toluene-d8	10.191	98	115818	54.971	ug/l	0.01
Spiked Amount 50.000	Range 58 - 134		Recovery =	109.940%		
62) 4-Bromofluorobenzene	12.489	95	34905	44.627	ug/l	0.01
Spiked Amount 50.000	Range 30 - 143		Recovery =	89.260%		
Target Compounds						Qvalue
11) Tert butyl alcohol	4.978	59	107	Below Cal	#	89
16) Acetone	3.966	43	1351	4.535	ug/l #	89
20) Methylene Chloride	4.728	84	4897	Below Cal	#	79
29) Tetrahydrofuran	7.368	42	299	1.127	ug/l #	84
31) Cyclohexane	7.801	56	1355	1.069	ug/l #	1
36) 1,1-Dichloropropene	7.801	75	5189	5.079	ug/l #	49
38) Carbon Tetrachloride	7.801	117	6367	6.035	ug/l #	18
68) m/p-Xylenes	11.709	106	5287	4.243	ug/l	99
69) o-Xylene	12.044	106	3179	2.670	ug/l	99
74) N-amyl acetate	12.130	43	1657	1.876	ug/l #	72
76) 1,2,3-Trichloropropane	12.745	75	1178	2.538	ug/l #	100
78) n-propylbenzene	12.739	91	15644	4.918	ug/l #	1
79) 2-Chlorotoluene	12.739	91	15644	8.768	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.818	105	94496	42.973	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.489	75	18833	89.507	ug/l #	10
82) 4-Chlorotoluene	12.818	91	10606	5.720	ug/l #	40
83) tert-Butylbenzene	13.129	119	31307	16.255	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.129	105	255585	117.063	ug/l	98
85) sec-Butylbenzene	13.129	105	255585	88.970	ug/l #	56
86) p-Isopropyltoluene	13.379	119	4342	1.803	ug/l	95
89) n-Butylbenzene	13.672	91	27035	11.930	ug/l #	1
90) Hexachloroethane	13.977	117	12147	28.209	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.336	75	762	6.138	ug/l #	7
95) Naphthalene	15.245	128	60853	34.870	ug/l	98

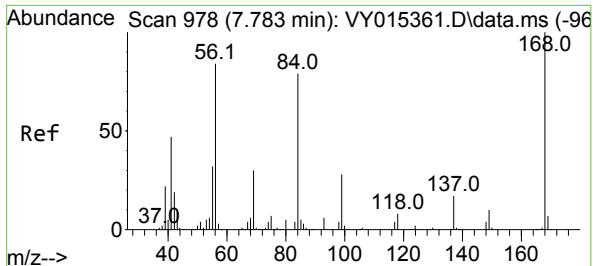
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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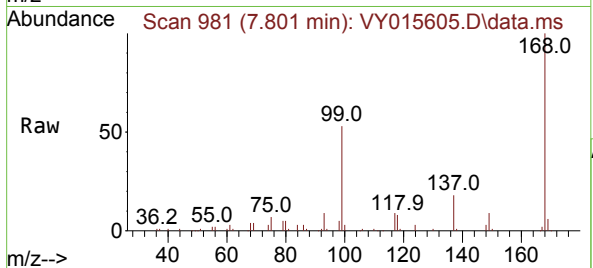
Quant Time: Sep 16 07:03:08 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082923S.M
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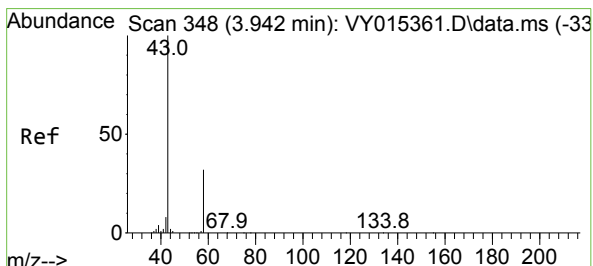
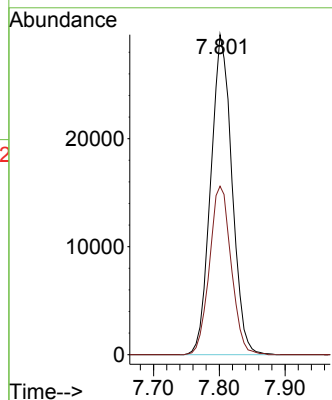
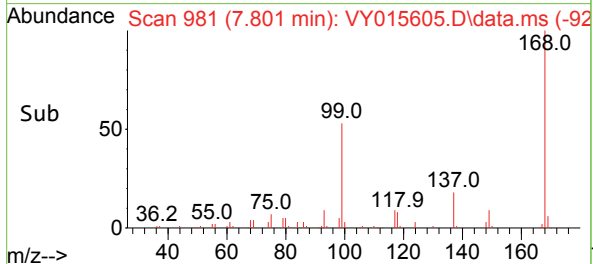


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Instrument :
MSVOA_Y
ClientSampleId :

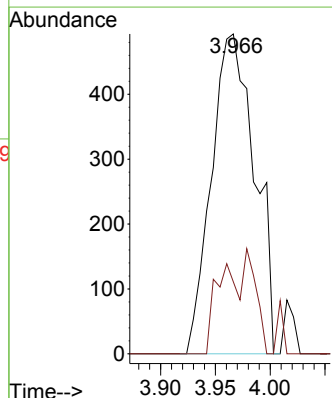
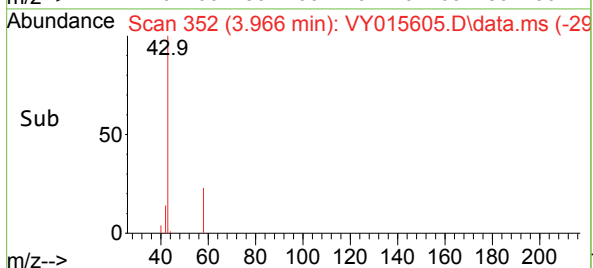
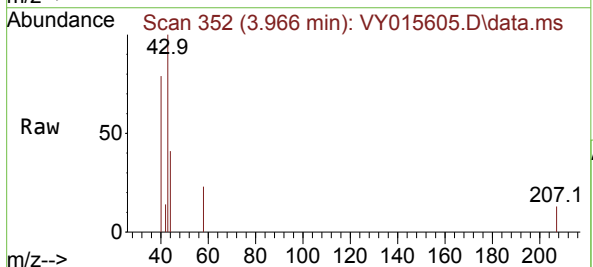


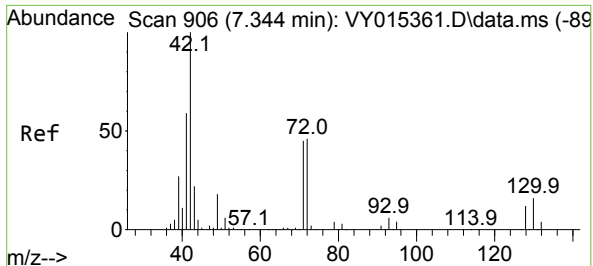
Tgt Ion:168 Resp: 66579
Ion Ratio Lower Upper
168 100
99 52.6 43.4 65.0



#16
Acetone
Concen: 4.535 ug/l
RT: 3.966 min Scan# 352
Delta R.T. 0.024 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Tgt Ion: 43 Resp: 1351
Ion Ratio Lower Upper
43 100
58 22.5 22.7 34.1#





#29

Tetrahydrofuran

Concen: 1.127 ug/l

RT: 7.368 min Scan# 91

Delta R.T. 0.024 min

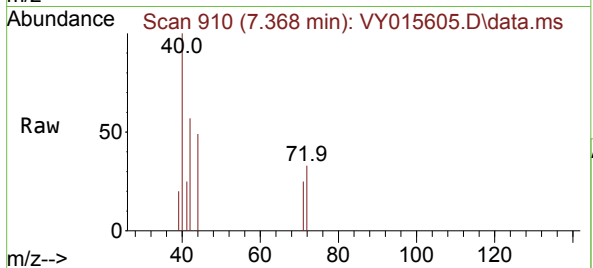
Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

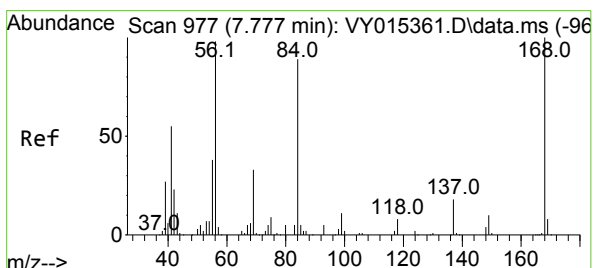
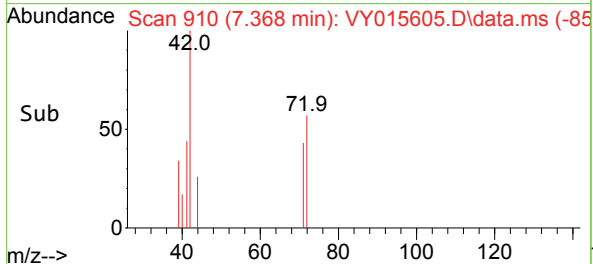
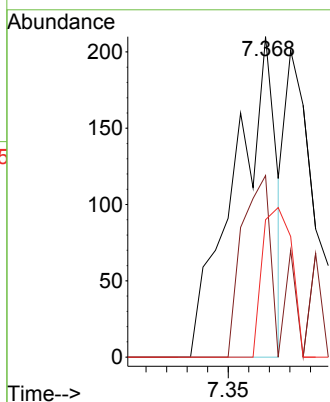
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	299
Ion	Ratio	Lower	Upper
42	100		
72	54.5	32.8	49.2#
71	32.8	31.0	46.4



#31

Cyclohexane

Concen: 1.069 ug/l

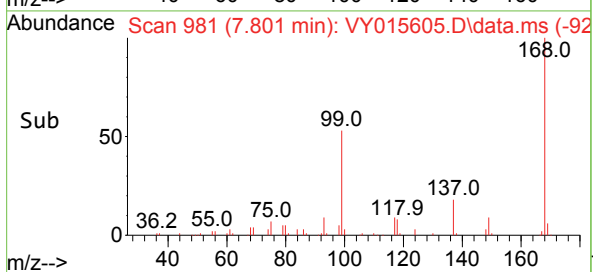
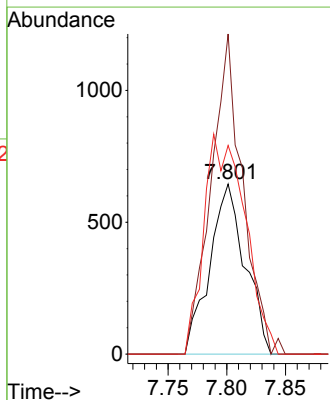
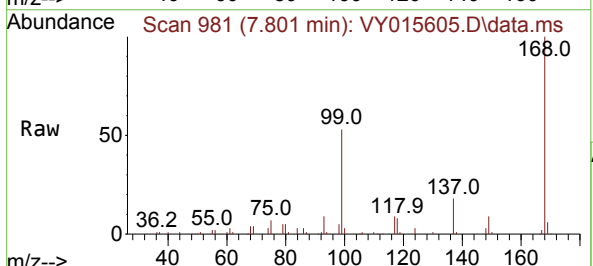
RT: 7.801 min Scan# 981

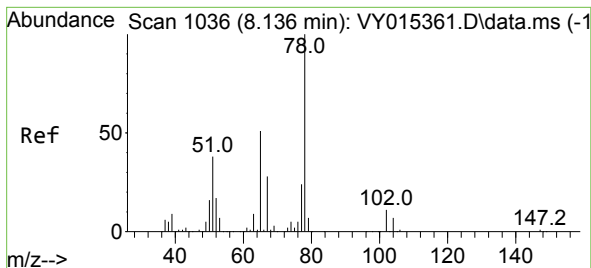
Delta R.T. 0.018 min

Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

Tgt Ion:	56	Resp:	1355
Ion	Ratio	Lower	Upper
56	100		
69	188.2	27.8	41.6#
84	122.6	66.4	99.6#





#33

1,2-Dichloroethane-d4

Concen: 47.779 ug/l

RT: 8.155 min Scan# 1109

Delta R.T. 0.018 min

Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

Instrument :

MSVOA_Y

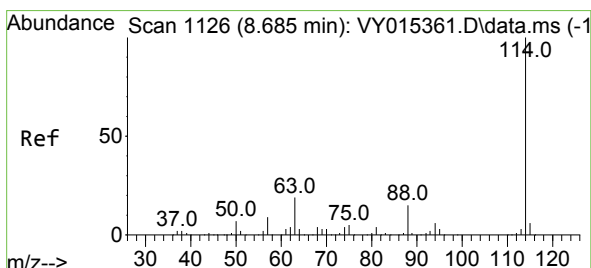
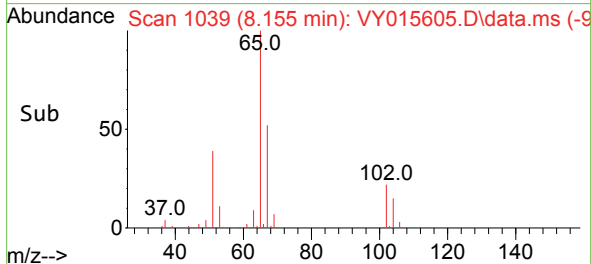
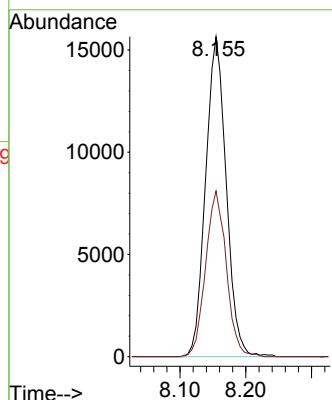
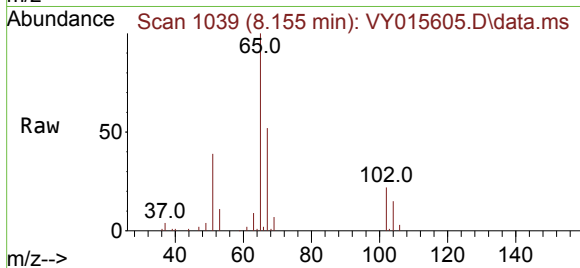
ClientSampleId :

Tgt Ion: 65 Resp: 34101

Ion Ratio Lower Upper

65 100

67 52.1 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: VY015605.D

Acq: 16 Sep 2023 06:18

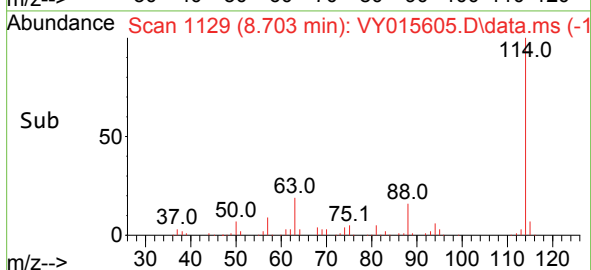
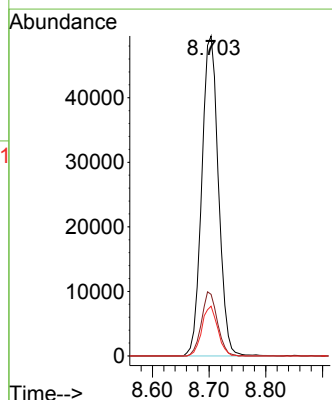
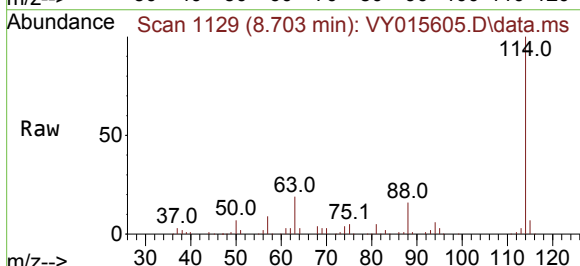
Tgt Ion: 114 Resp: 101009

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.4

88 15.5 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.005 ug/l

RT: 7.728 min Scan# 9

Delta R.T. 0.012 min

Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

Instrument :

MSVOA_Y

ClientSampleId :

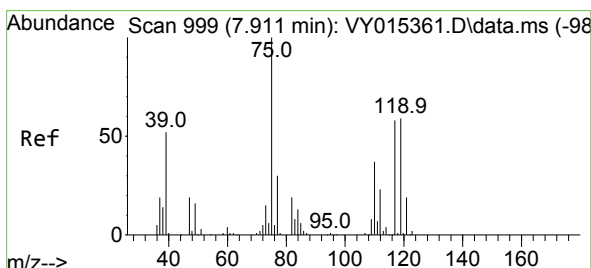
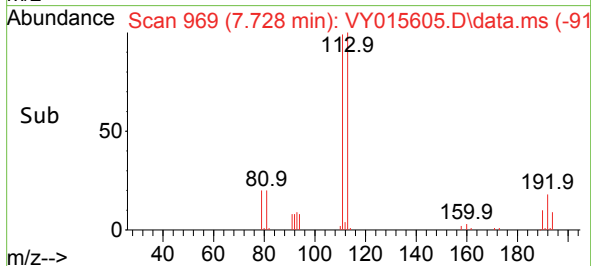
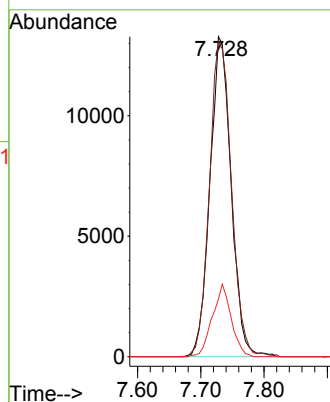
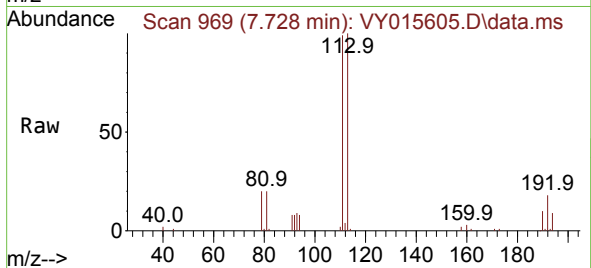
Tgt Ion:113 Resp: 30838

Ion Ratio Lower Upper

113 100

111 102.6 81.3 121.9

192 20.1 16.9 25.3



#36

1,1-Dichloropropene

Concen: 5.079 ug/l

RT: 7.801 min Scan# 981

Delta R.T. -0.110 min

Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

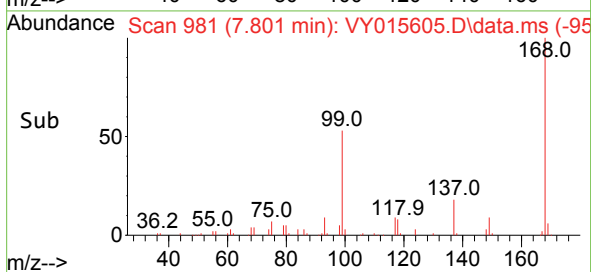
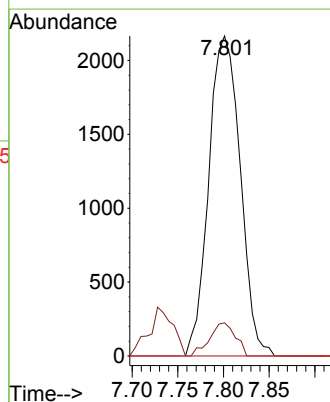
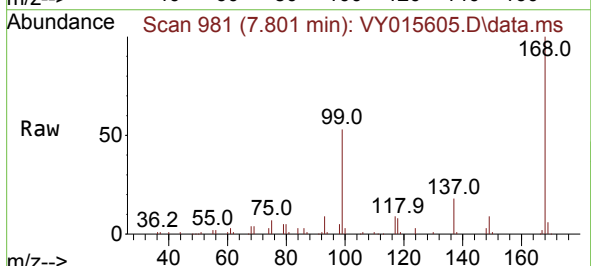
Tgt Ion: 75 Resp: 5189

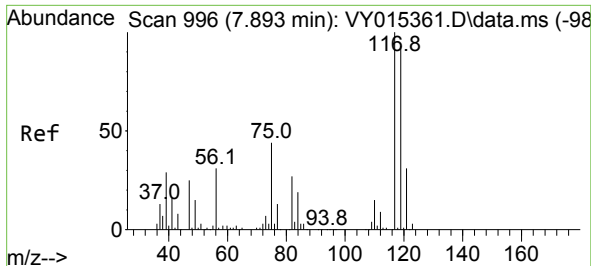
Ion Ratio Lower Upper

75 100

110 8.5 17.8 53.5#

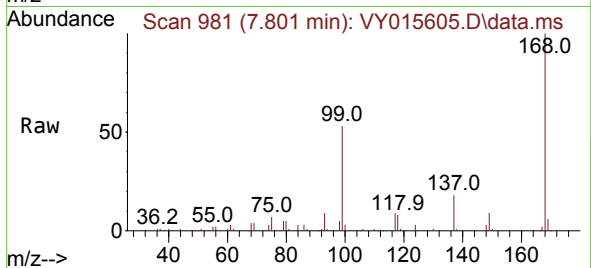
77 0.0 24.4 36.6#



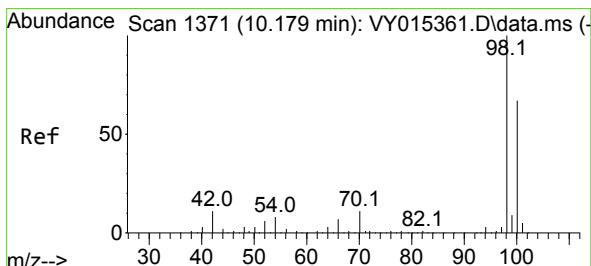
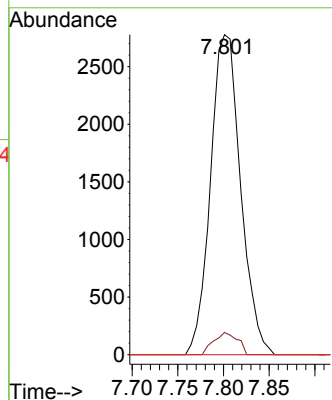
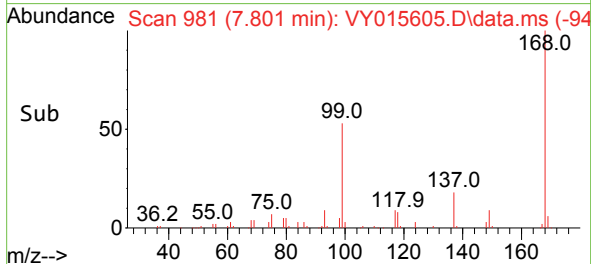


#38
Carbon Tetrachloride
Concen: 6.035 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.091 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Instrument :
MSVOA_Y
ClientSampleId :

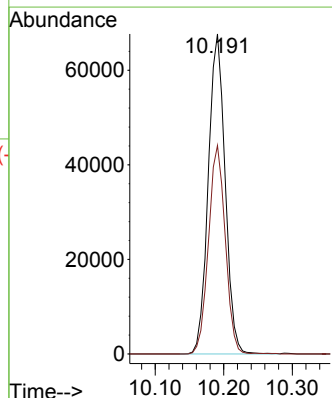
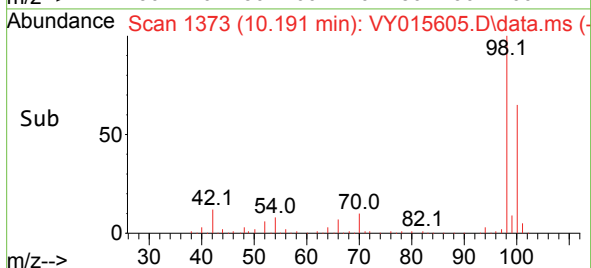
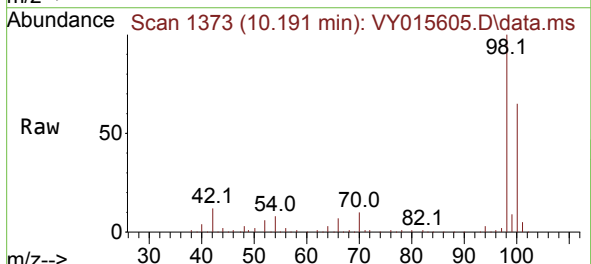


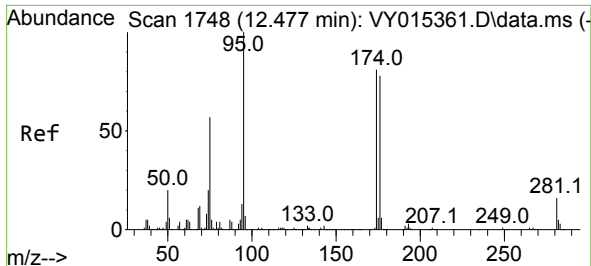
Tgt Ion:117 Resp: 6367
Ion Ratio Lower Upper
117 100
119 7.0 76.4 114.6#
121 0.0 25.8 38.6#



#50
Toluene-d8
Concen: 54.971 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.012 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Tgt Ion: 98 Resp: 115818
Ion Ratio Lower Upper
98 100
100 64.8 50.1 75.1

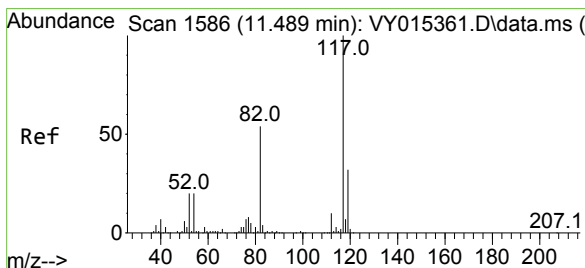
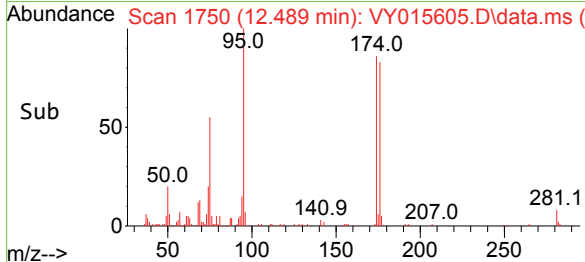
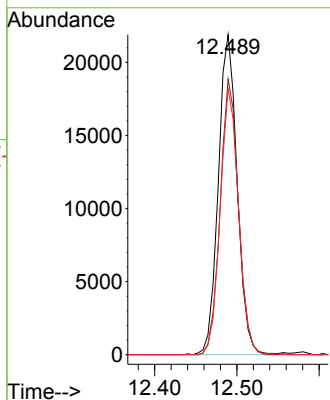
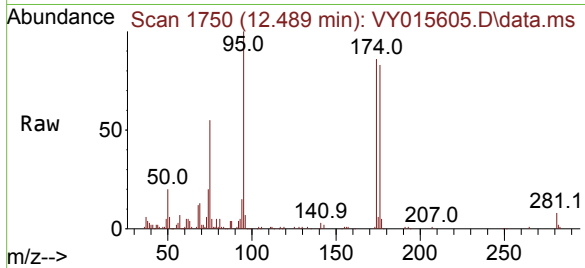




#62
4-Bromofluorobenzene
Concen: 44.627 ug/l
RT: 12.489 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

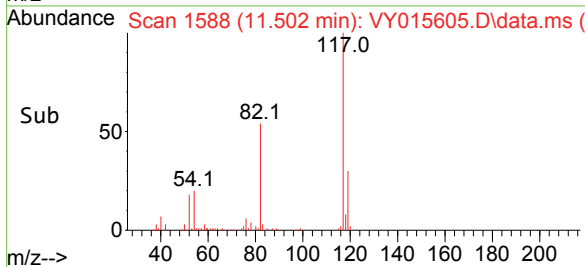
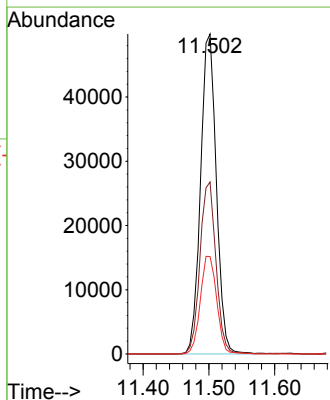
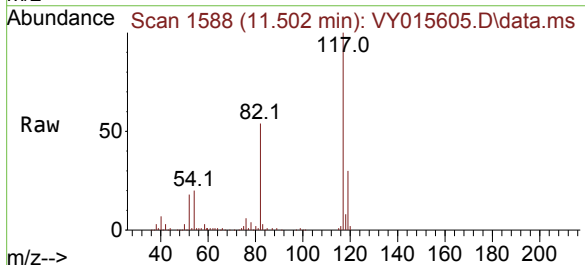
Instrument :
MSVOA_Y
ClientSampleId :

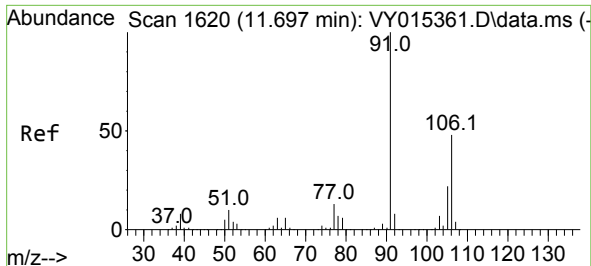
Tgt Ion: 95 Resp: 34905
Ion Ratio Lower Upper
95 100
174 83.0 0.0 178.2
176 80.9 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.502 min Scan# 1588
Delta R.T. 0.012 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Tgt Ion: 117 Resp: 83077
Ion Ratio Lower Upper
117 100
82 53.8 43.4 65.0
119 30.5 26.3 39.5

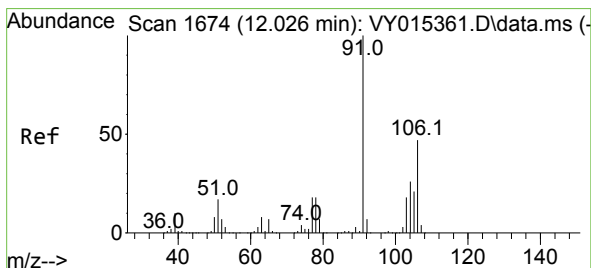
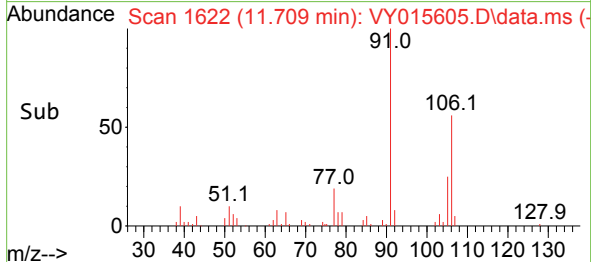
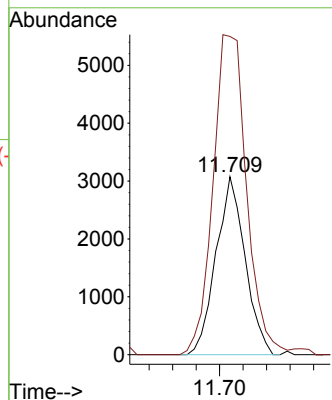
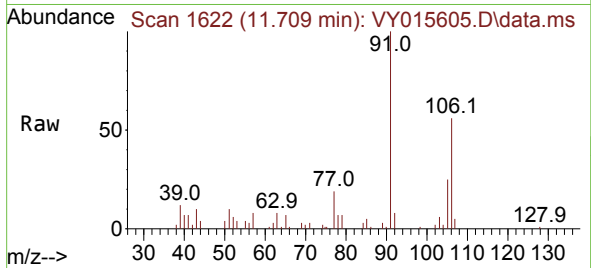




#68
m/p-Xylenes
Concen: 4.243 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

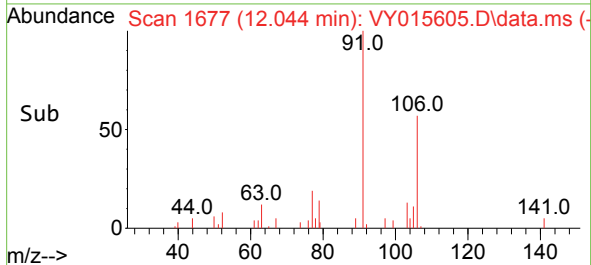
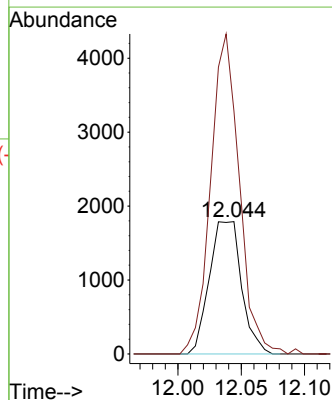
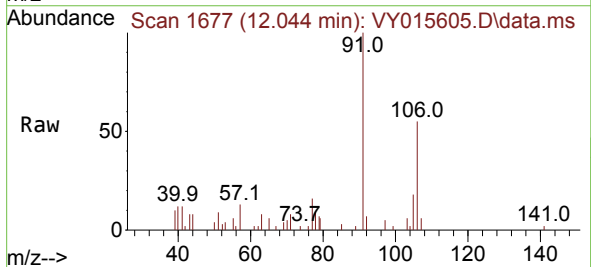
Instrument :
MSVOA_Y
ClientSampleId :

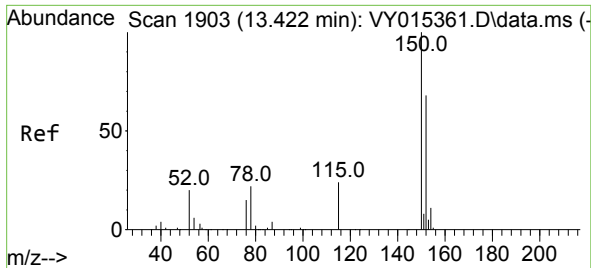
Tgt Ion:106 Resp: 5287
Ion Ratio Lower Upper
106 100
91 209.5 166.1 249.1



#69
o-Xylene
Concen: 2.670 ug/l
RT: 12.044 min Scan# 1677
Delta R.T. 0.018 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

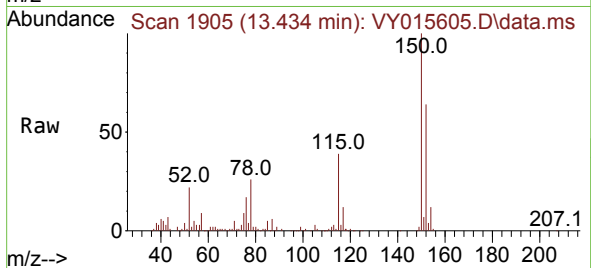
Tgt Ion:106 Resp: 3179
Ion Ratio Lower Upper
106 100
91 214.8 108.1 324.3



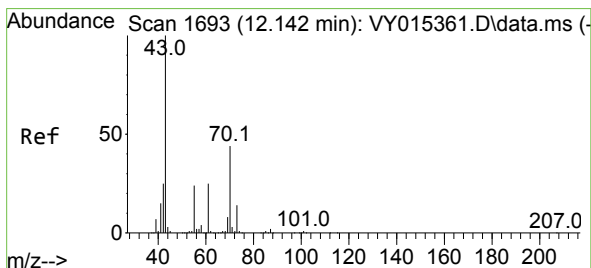
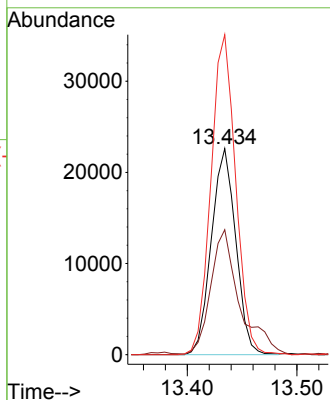
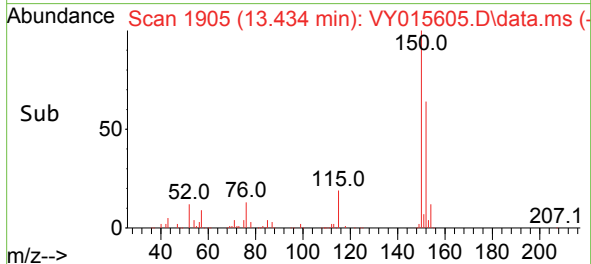


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.434 min Scan# 1905
Delta R.T. 0.012 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

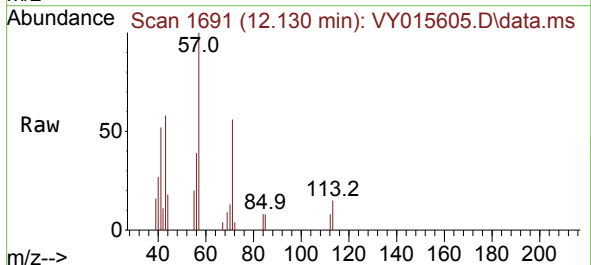
Instrument :
MSVOA_Y
ClientSampleId :



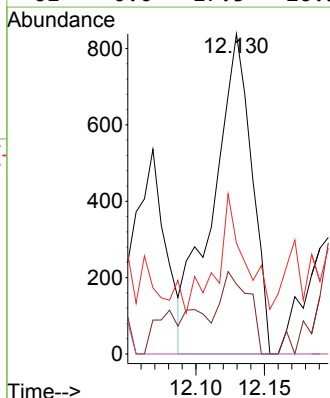
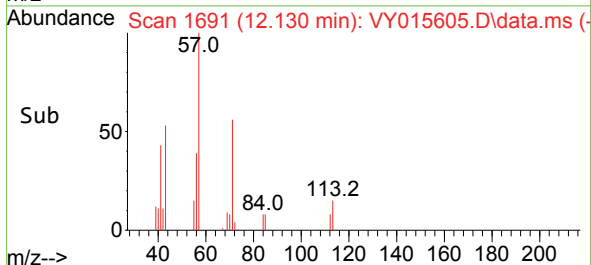
Tgt Ion:152 Resp: 35000
Ion Ratio Lower Upper
152 100
115 70.8 28.8 86.5
150 157.4 0.0 348.8

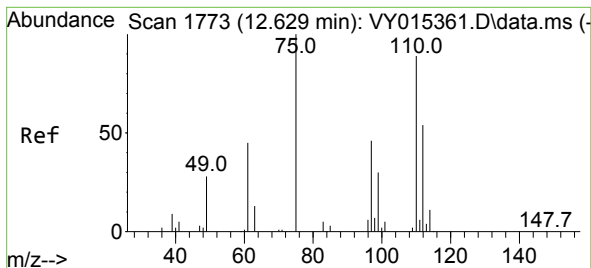


#74
N-ethyl acetate
Concen: 1.876 ug/l
RT: 12.130 min Scan# 1691
Delta R.T. -0.012 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18



Tgt Ion: 43 Resp: 1657
Ion Ratio Lower Upper
43 100
70 18.7 29.7 44.5#
55 26.1 18.3 27.5
61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 2.538 ug/l

RT: 12.745 min Scan# 1792

Delta R.T. 0.116 min

Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

Instrument :

MSVOA_Y

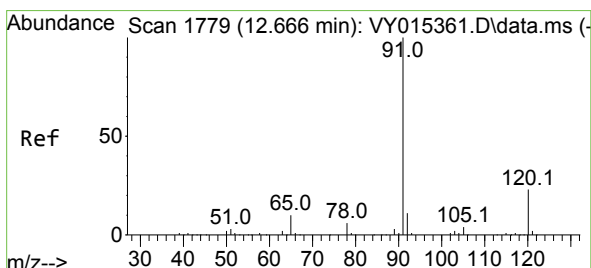
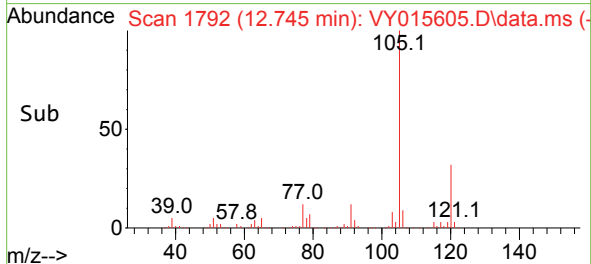
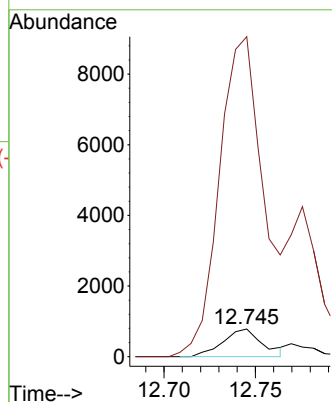
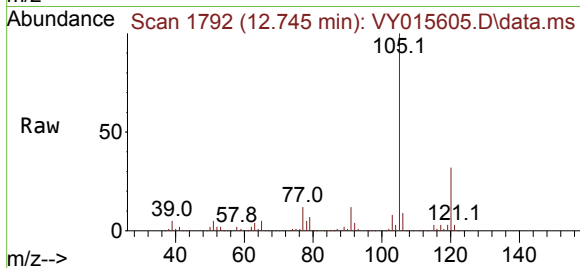
ClientSampleId :

Tgt Ion: 75 Resp: 1178

Ion Ratio Lower Upper

75 100

77 1290.2 0.0 0.0#



#78

n-propylbenzene

Concen: 4.918 ug/l

RT: 12.739 min Scan# 1791

Delta R.T. 0.073 min

Lab File: VY015605.D

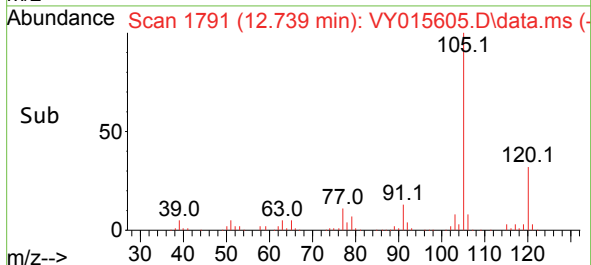
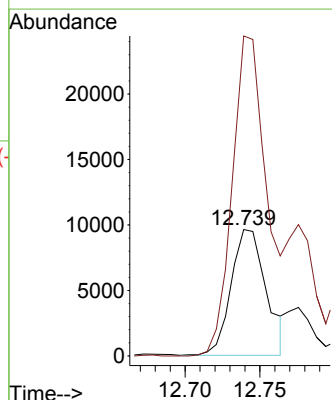
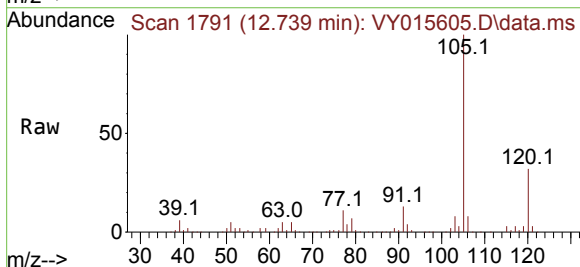
Acq: 16 Sep 2023 06:18

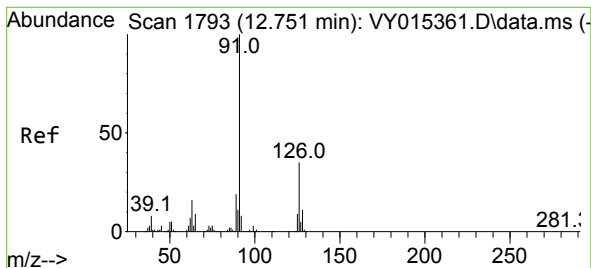
Tgt Ion: 91 Resp: 15644

Ion Ratio Lower Upper

91 100

120 249.3 11.5 34.4#

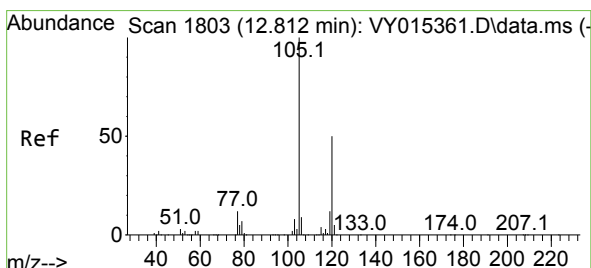
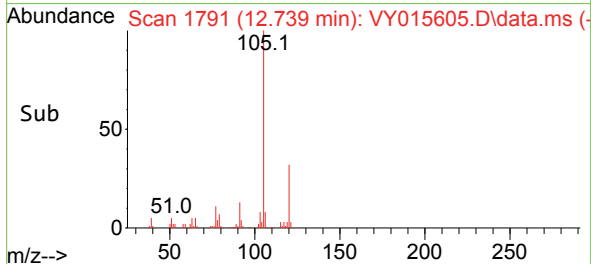
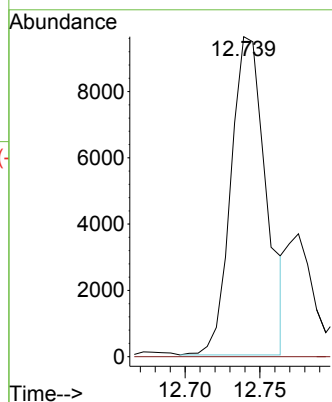
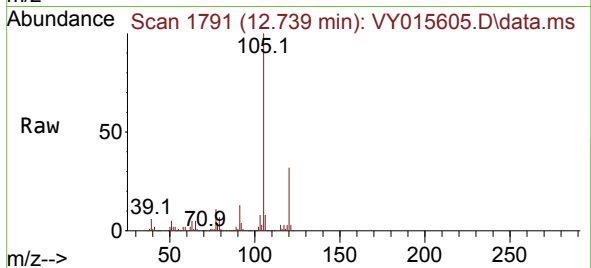




#79
2-Chlorotoluene
Concen: 8.768 ug/l
RT: 12.739 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

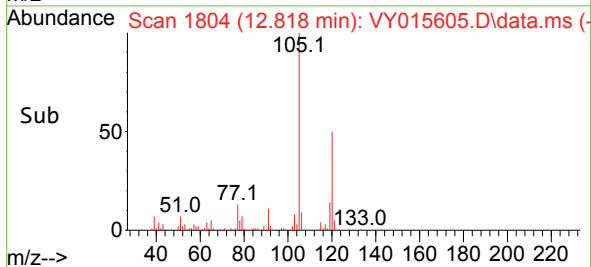
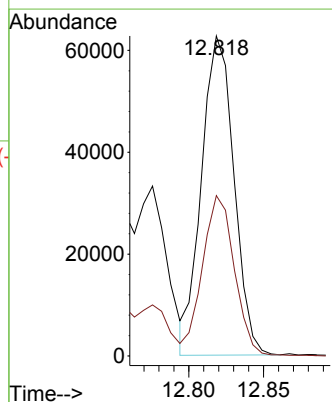
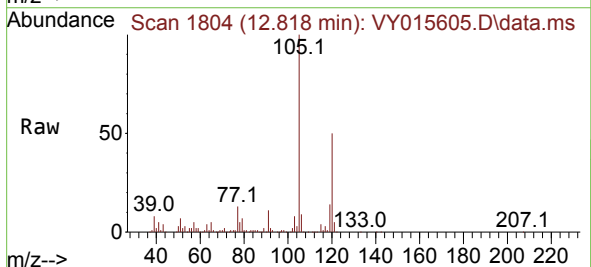
Instrument :
MSVOA_Y
ClientSampleId :

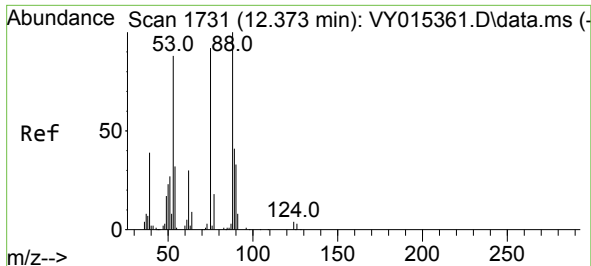
Tgt Ion: 91 Resp: 15644
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.7#



#80
1,3,5-Trimethylbenzene
Concen: 42.973 ug/l
RT: 12.818 min Scan# 1804
Delta R.T. 0.006 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Tgt Ion:105 Resp: 94496
Ion Ratio Lower Upper
105 100
120 49.8 23.9 71.7

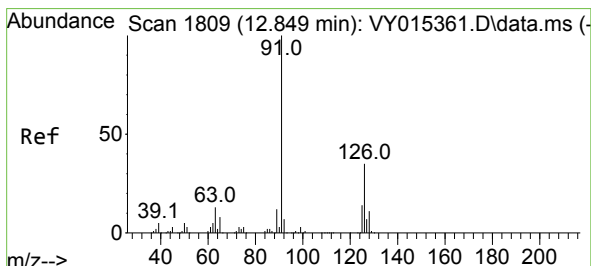
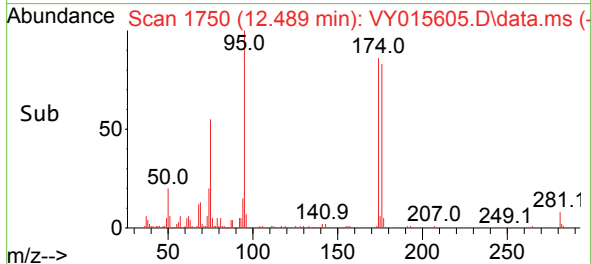
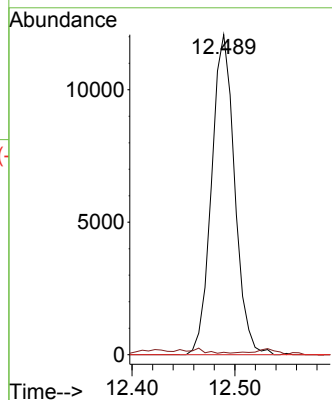
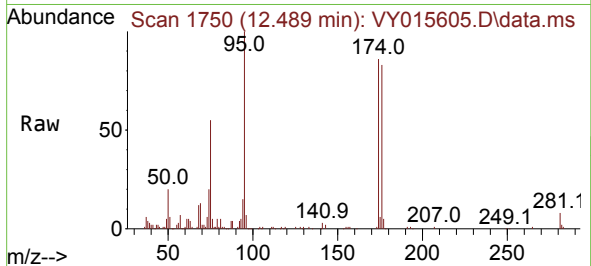




#81
trans-1,4-Dichloro-2-butene
Concen: 89.507 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.110 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

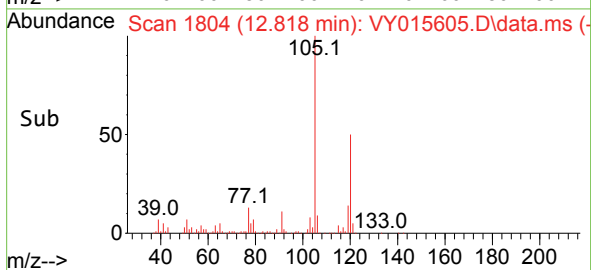
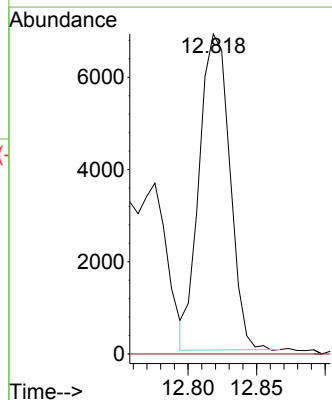
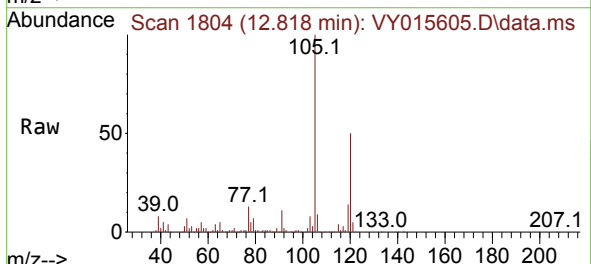
Instrument :
MSVOA_Y
ClientSampleId :

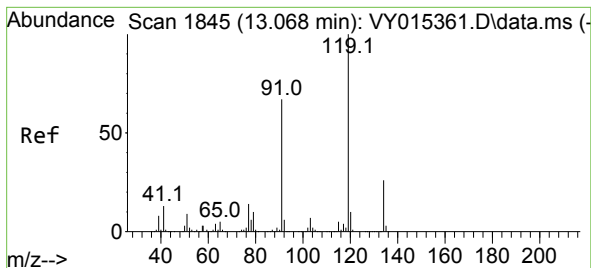
Tgt Ion: 75 Resp: 18833
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#



#82
4-Chlorotoluene
Concen: 5.720 ug/l
RT: 12.818 min Scan# 1804
Delta R.T. -0.031 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Tgt Ion: 91 Resp: 10606
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#





#83

tert-Butylbenzene

Concen: 16.255 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. 0.055 min

Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

Instrument :

MSVOA_Y

ClientSampleId :

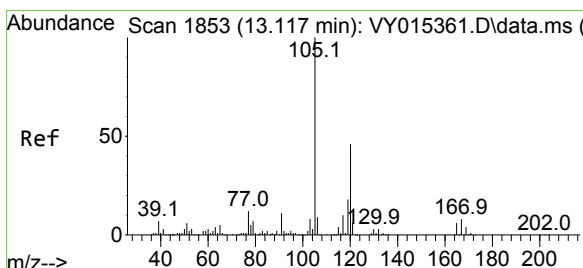
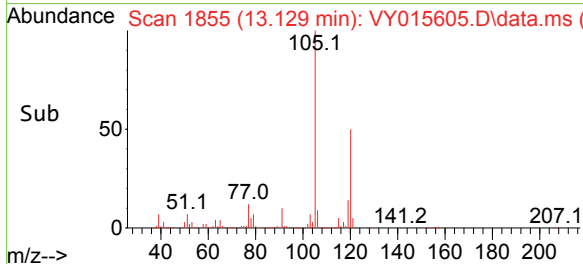
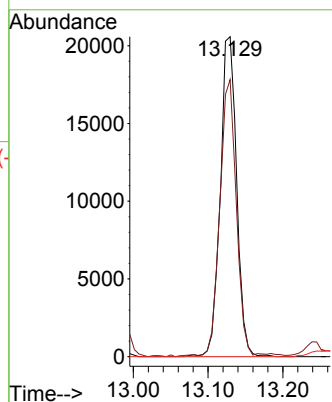
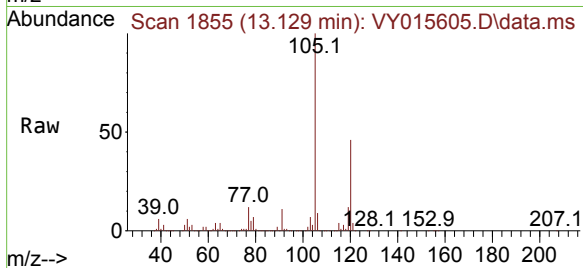
Tgt Ion:119 Resp: 31307

Ion Ratio Lower Upper

119 100

91 88.1 32.9 98.6

134 0.0 13.0 38.9#



#84

1,2,4-Trimethylbenzene

Concen: 117.063 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. 0.012 min

Lab File: VY015605.D

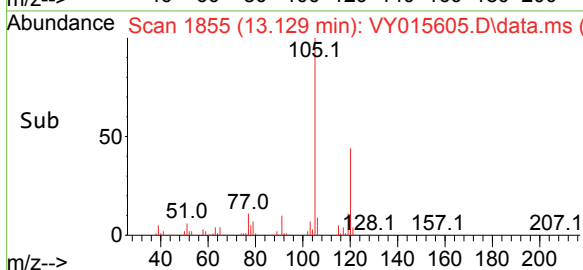
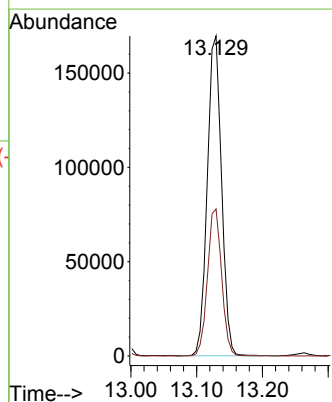
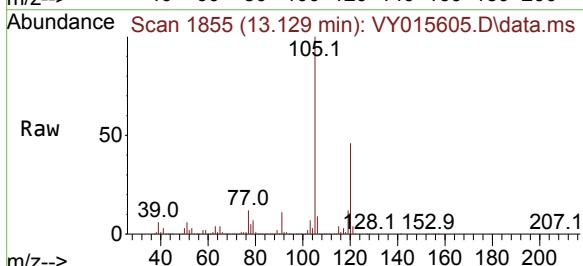
Acq: 16 Sep 2023 06:18

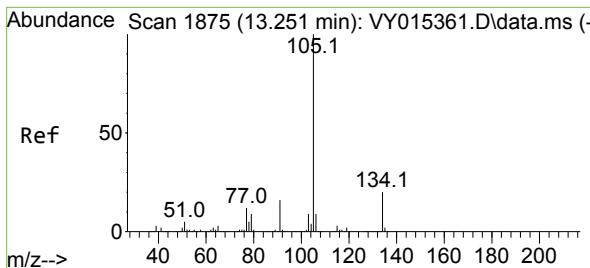
Tgt Ion:105 Resp: 255585

Ion Ratio Lower Upper

105 100

120 45.7 22.2 66.6





#85

sec-Butylbenzene

Concen: 88.970 ug/l

RT: 13.129 min Scan# 1855

Delta R.T. -0.122 min

Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

Instrument :

MSVOA_Y

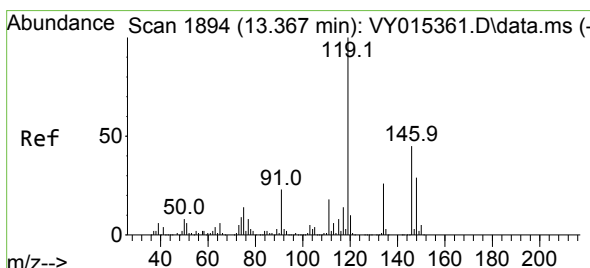
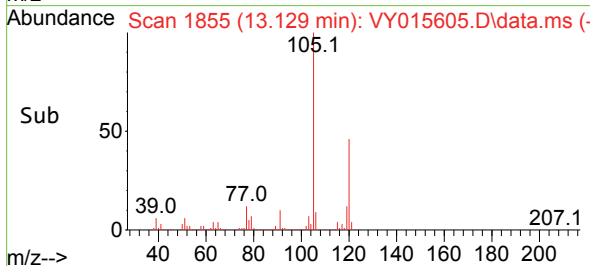
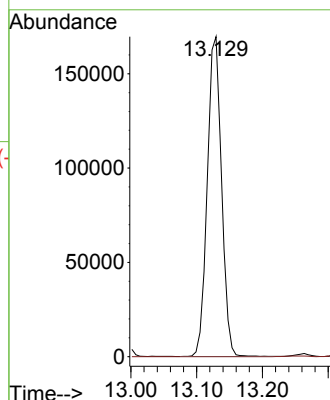
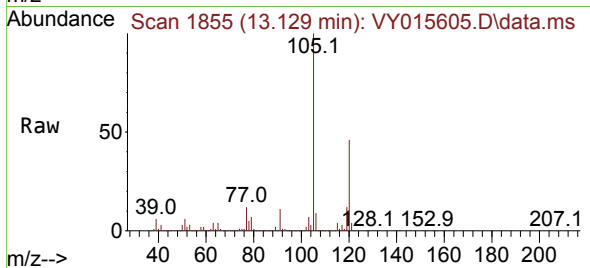
ClientSampleId :

Tgt Ion:105 Resp: 255585

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.6#



#86

p-Isopropyltoluene

Concen: 1.803 ug/l

RT: 13.379 min Scan# 1896

Delta R.T. 0.012 min

Lab File: VY015605.D

Acq: 16 Sep 2023 06:18

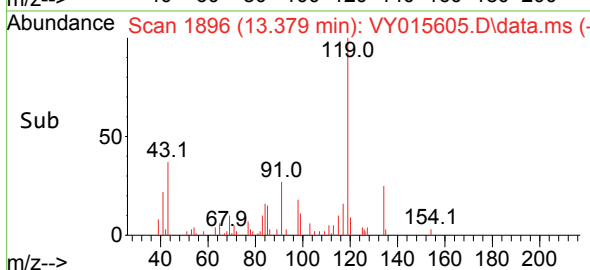
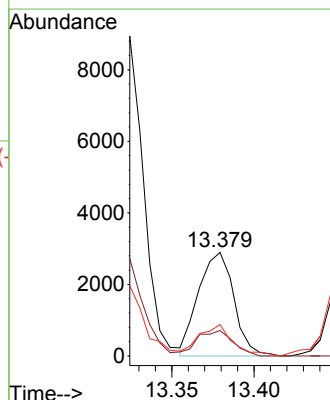
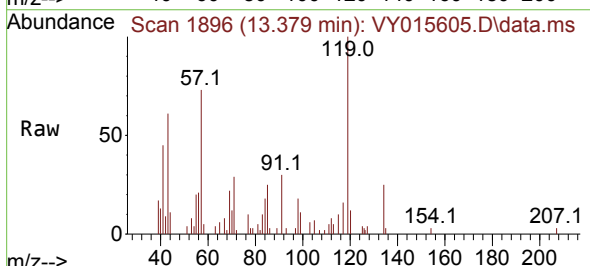
Tgt Ion:119 Resp: 4342

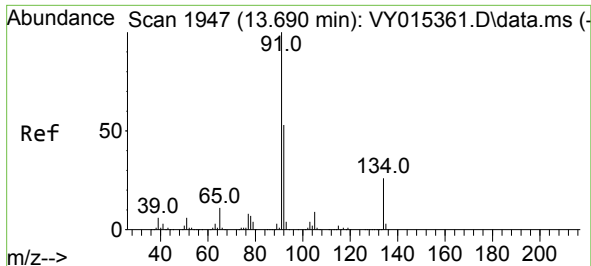
Ion Ratio Lower Upper

119 100

134 25.6 13.3 39.8

91 28.8 12.4 37.4

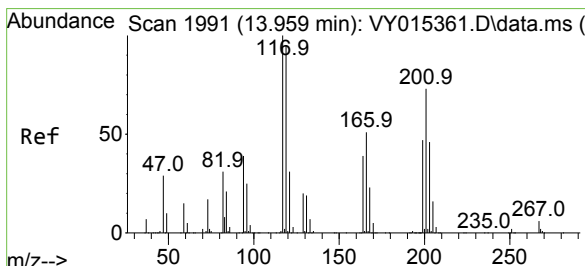
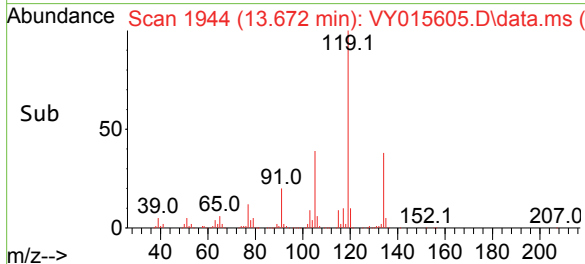
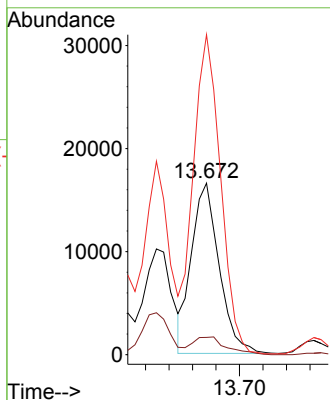
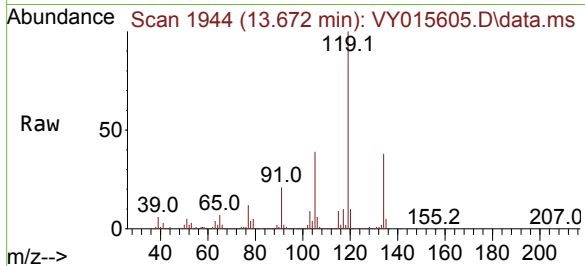




#89
n-Butylbenzene
Concen: 11.930 ug/l
RT: 13.672 min Scan# 1944
Delta R.T. -0.024 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

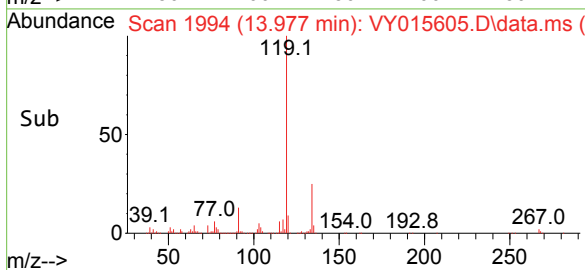
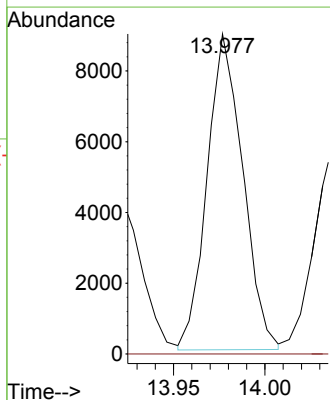
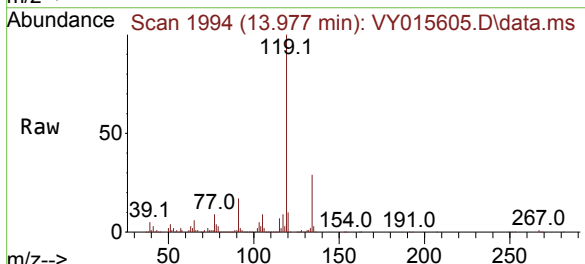
Instrument :
MSVOA_Y
ClientSampleId :

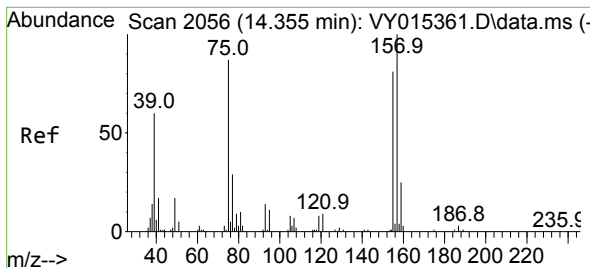
Tgt Ion: 91 Resp: 27035
Ion Ratio Lower Upper
91 100
92 12.3 25.4 76.0#
134 185.1 12.6 37.6#



#90
Hexachloroethane
Concen: 28.209 ug/l
RT: 13.977 min Scan# 1994
Delta R.T. 0.018 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Tgt Ion: 117 Resp: 12147
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#

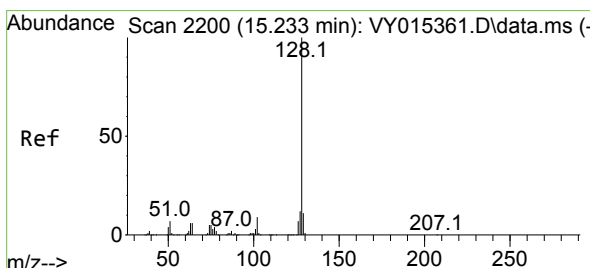
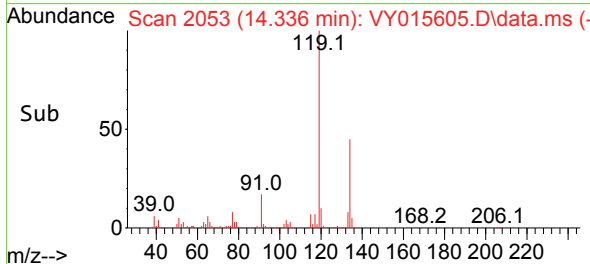
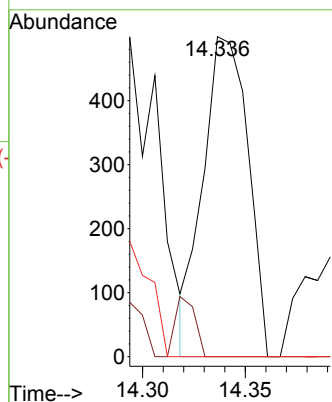
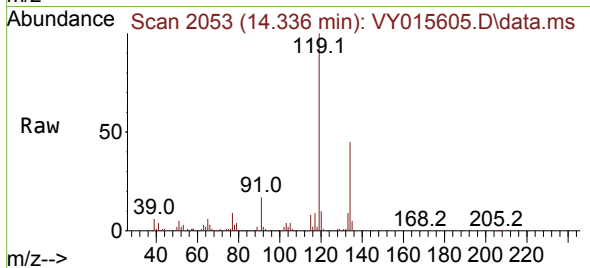




#92
1,2-Dibromo-3-Chloropropane
Concen: 6.138 ug/l
RT: 14.336 min Scan# 2053
Delta R.T. -0.018 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 762
Ion Ratio Lower Upper
75 100
155 8.3 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 34.870 ug/l
RT: 15.245 min Scan# 2202
Delta R.T. 0.012 min
Lab File: VY015605.D
Acq: 16 Sep 2023 06:18

Tgt Ion: 128 Resp: 60853
Ion Ratio Lower Upper
128 100
127 12.9 10.8 16.2
129 11.4 8.6 13.0

