

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101123\
 Data File : VY015935.D
 Acq On : 11 Oct 2023 19:39
 Operator : SY/MD
 Sample : 04841-01
 Misc : 11.50g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 G-1-(5-10)

Quant Time: Oct 12 02:01:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100923S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 10 07:06:18 2023
 Response via : Initial Calibration

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

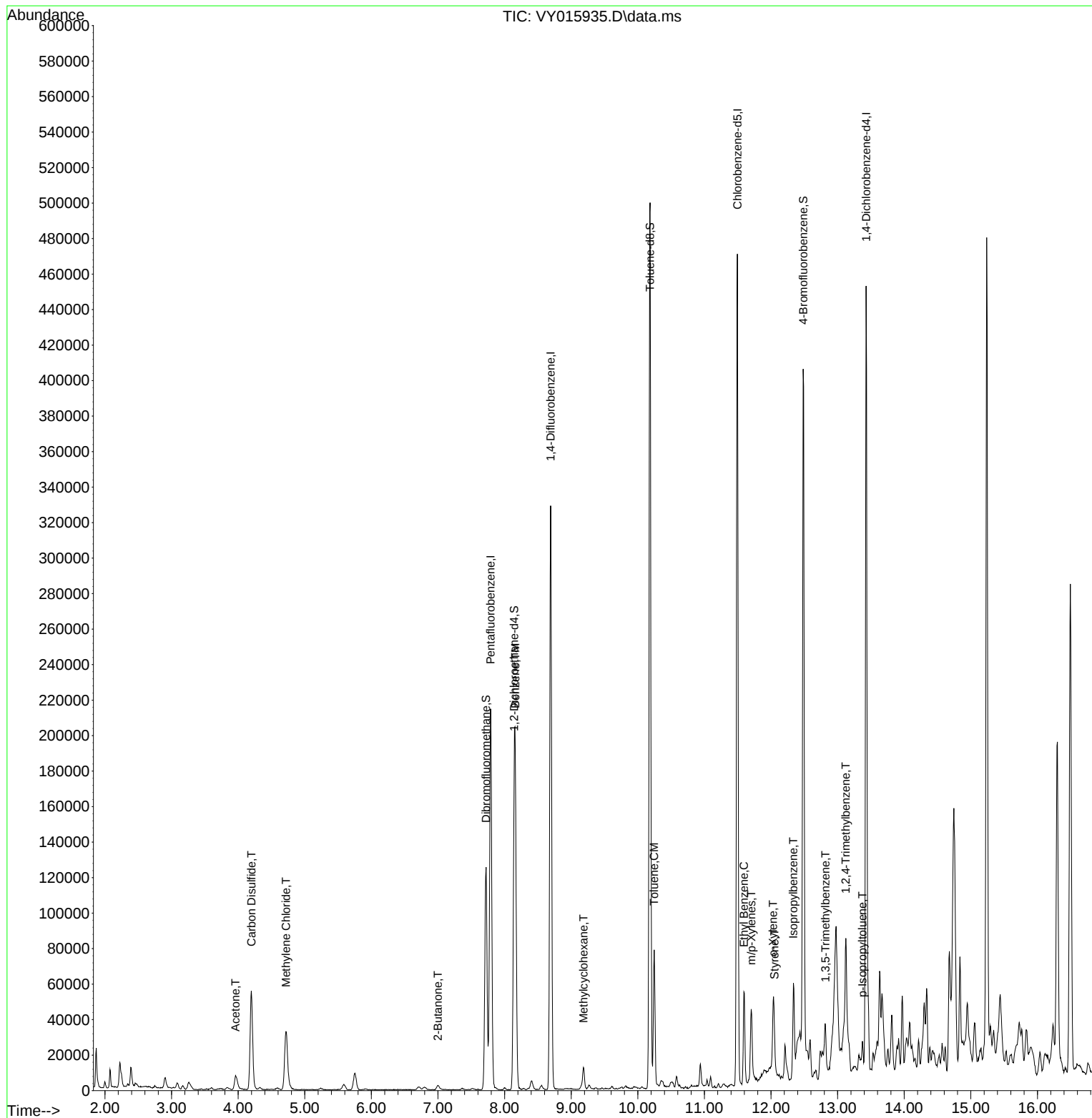
Internal Standards						
1) Pentafluorobenzene	7.789	168	166881	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	285842	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	259621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	114983	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	98824	65.813	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 131.620%			
35) Dibromofluoromethane	7.722	113	90288	56.630	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 113.260%			
50) Toluene-d8	10.185	98	337961	64.318	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 128.640%			
62) 4-Bromofluorobenzene	12.483	95	115456	54.096	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 108.200%			
Target Compounds					Qvalue	
16) Acetone	3.960	43	16352	27.543	ug/l	94
17) Carbon Disulfide	4.198	76	113539	77.181	ug/l	98
20) Methylene Chloride	4.716	84	25771	8.712	ug/l	93
25) 2-Butanone	6.996	43	4777	5.799	ug/l	97
39) Methylcyclohexane	9.185	83	4968	2.770	ug/l #	93
40) Benzene	8.161	78	130840	23.578	ug/l	100
52) Toluene	10.246	92	32238	8.752	ug/l	96
67) Ethyl Benzene	11.593	91	36664	4.719	ug/l	99
68) m/p-Xylenes	11.703	106	12745	4.354	ug/l	96
69) o-Xylene	12.032	106	8866	3.027	ug/l	100
70) Styrene	12.050	104	10070	1.970	ug/l	96
73) Isopropylbenzene	12.337	105	7629	1.052	ug/l	92
80) 1,3,5-Trimethylbenzene	12.819	105	9690	1.621	ug/l	96
84) 1,2,4-Trimethylbenzene	13.123	105	25586	4.250	ug/l	99
86) p-Isopropyltoluene	13.373	119	8784	1.298	ug/l	99

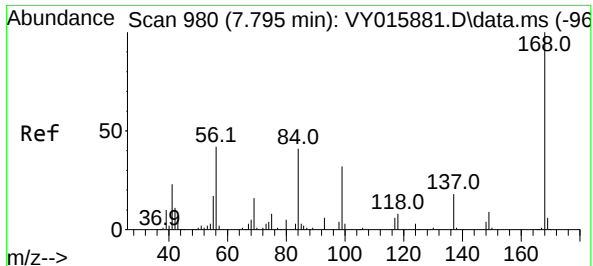
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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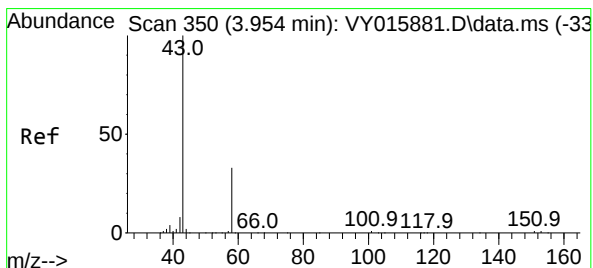
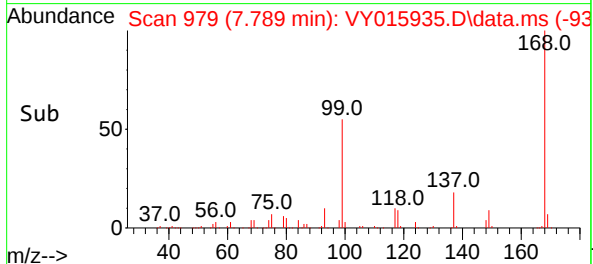
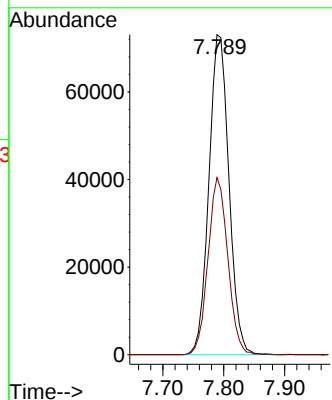
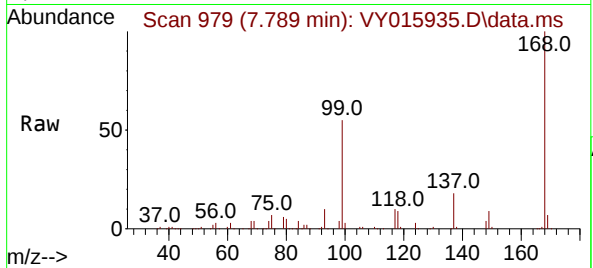




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015935.D
Acq: 11 Oct 2023 19:39

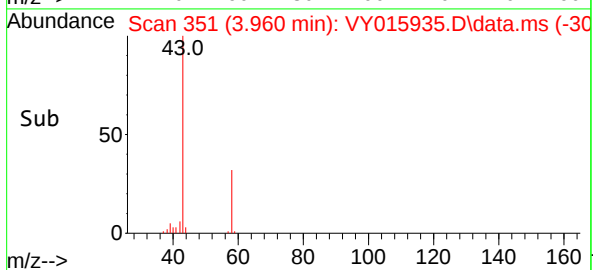
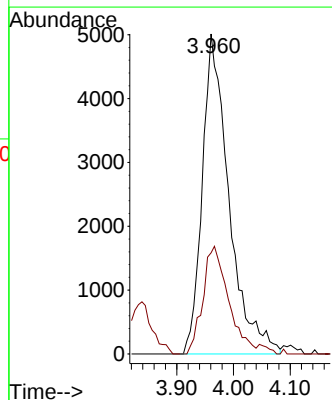
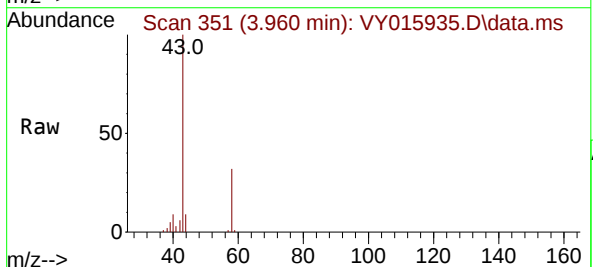
Instrument :
MSVOA_Y
ClientSampleId :
G-1-(5-10)

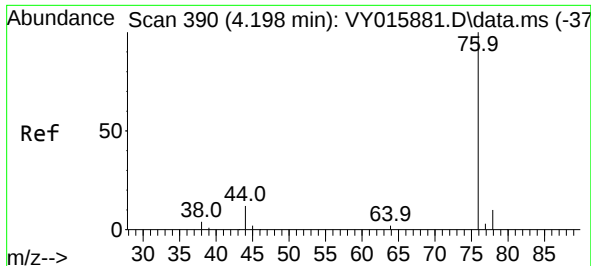
Tgt Ion:168 Resp: 166881
Ion Ratio Lower Upper
168 100
99 55.4 43.4 65.0



#16
Acetone
Concen: 27.543 ug/l
RT: 3.960 min Scan# 351
Delta R.T. 0.006 min
Lab File: VY015935.D
Acq: 11 Oct 2023 19:39

Tgt Ion: 43 Resp: 16352
Ion Ratio Lower Upper
43 100
58 31.6 22.7 34.1





#17

Carbon Disulfide

Concen: 77.181 ug/l

RT: 4.198 min Scan# 390

Delta R.T. 0.000 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

Instrument :

MSVOA_Y

ClientSampleId :

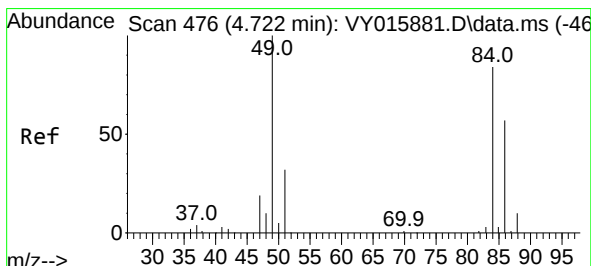
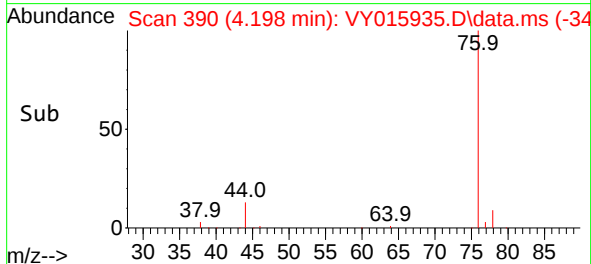
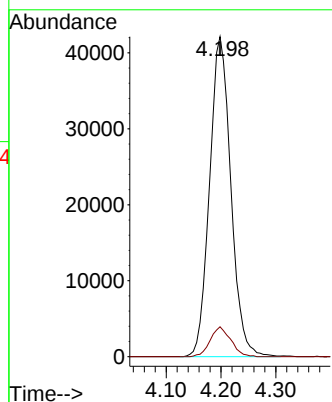
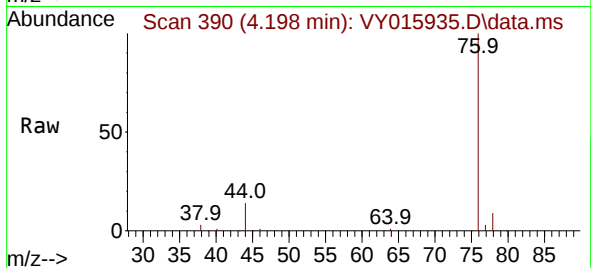
G-1-(5-10)

Tgt Ion: 76 Resp: 113539

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4



#20

Methylene Chloride

Concen: 8.712 ug/l

RT: 4.716 min Scan# 475

Delta R.T. -0.006 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

Tgt Ion: 84 Resp: 25771

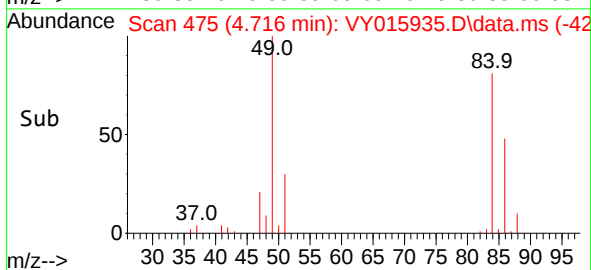
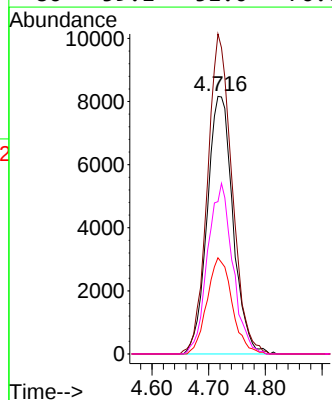
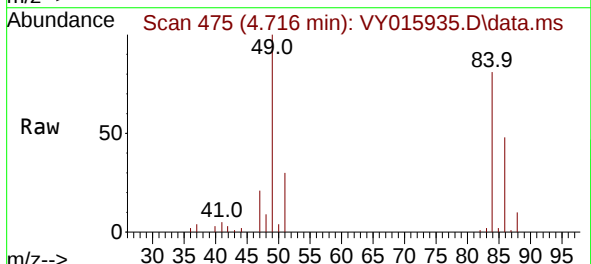
Ion Ratio Lower Upper

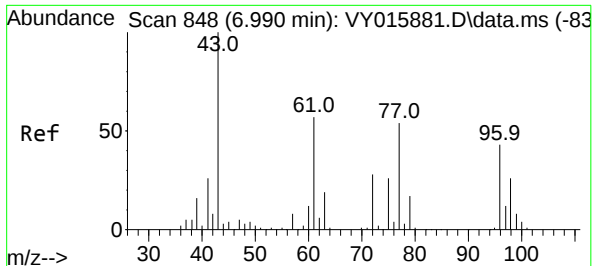
84 100

49 124.2 106.9 160.3

51 37.3 33.2 49.8

86 59.1 51.0 76.6





#25

2-Butanone

Concen: 5.799 ug/l

RT: 6.996 min Scan# 84

Delta R.T. 0.006 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

Instrument :

MSVOA_Y

ClientSampleId :

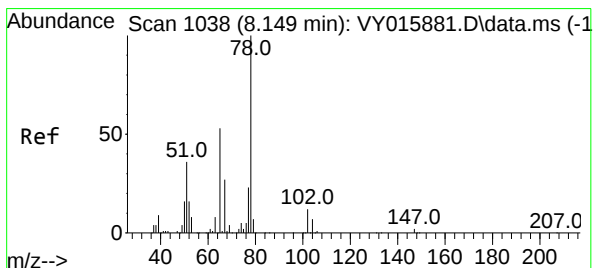
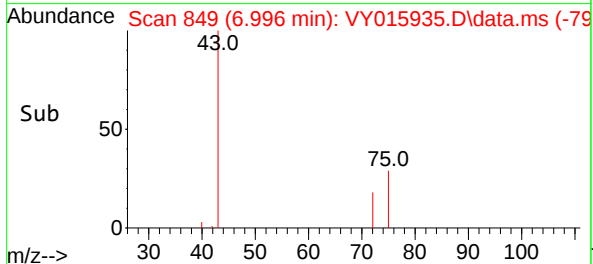
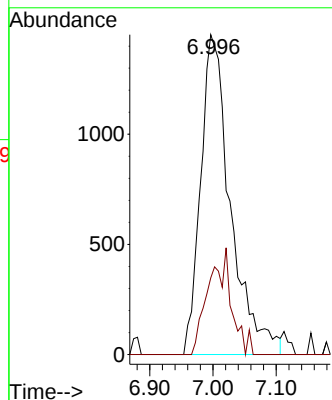
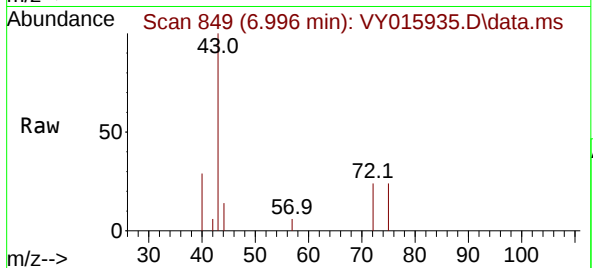
G-1-(5-10)

Tgt Ion: 43 Resp: 4777

Ion Ratio Lower Upper

43 100

72 24.0 20.5 30.7



#33

1,2-Dichloroethane-d4

Concen: 65.813 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. -0.006 min

Lab File: VY015935.D

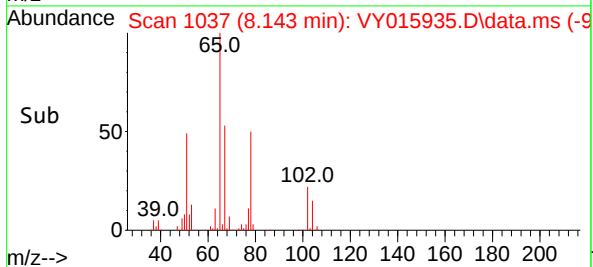
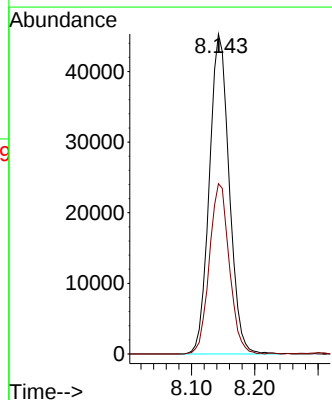
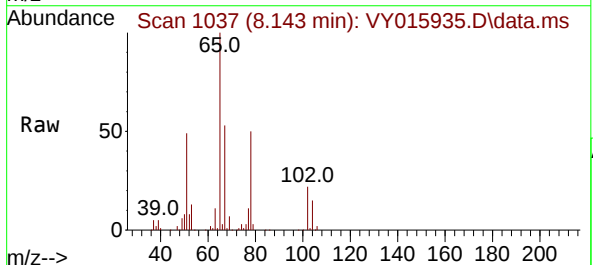
Acq: 11 Oct 2023 19:39

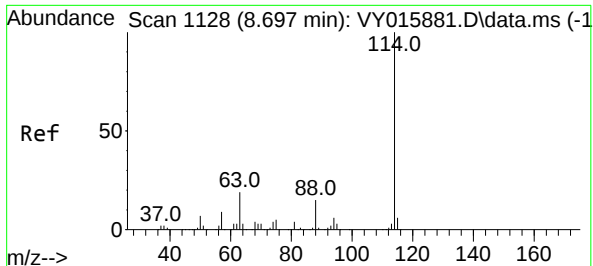
Tgt Ion: 65 Resp: 98824

Ion Ratio Lower Upper

65 100

67 53.4 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

Instrument :

MSVOA_Y

ClientSampleId :

G-1-(5-10)

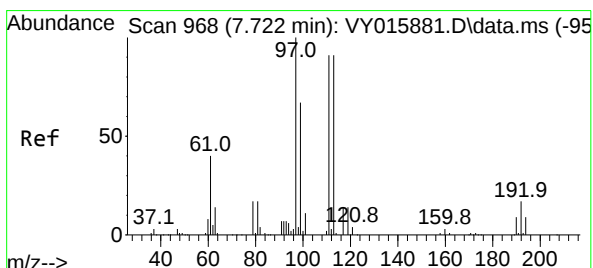
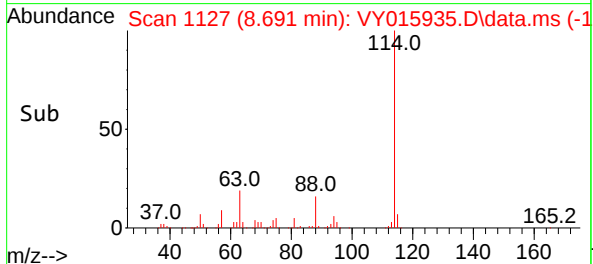
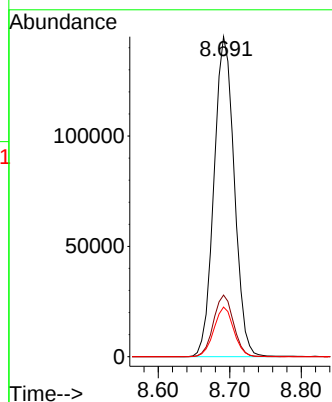
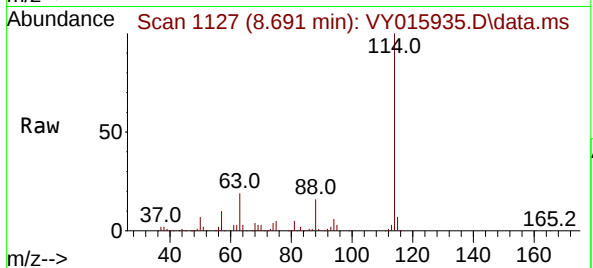
Tgt Ion:114 Resp: 285842

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.4

88 15.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 56.630 ug/l

RT: 7.722 min Scan# 968

Delta R.T. 0.000 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

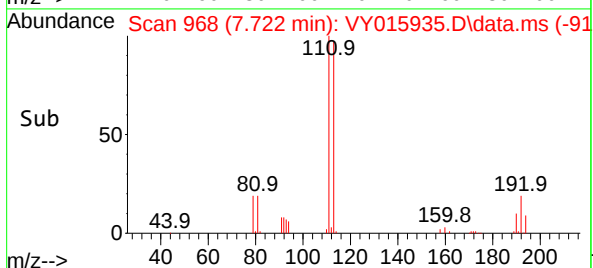
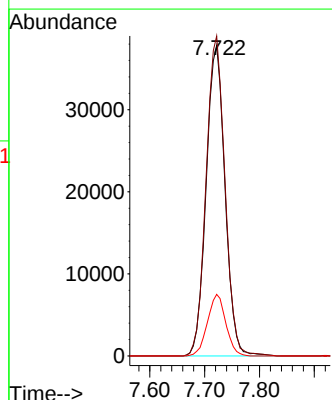
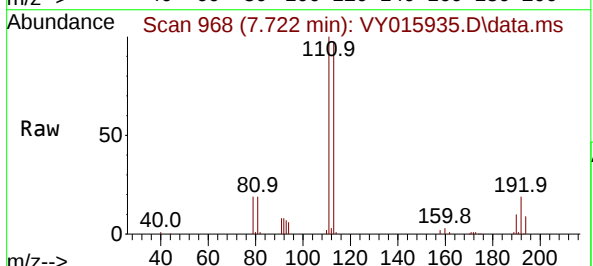
Tgt Ion:113 Resp: 90288

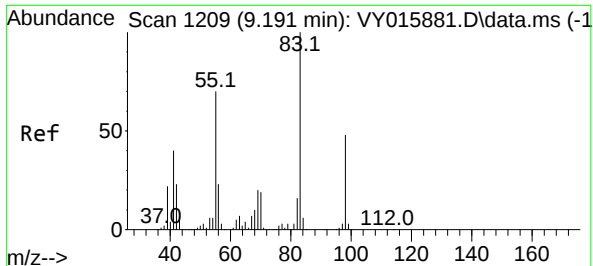
Ion Ratio Lower Upper

113 100

111 102.9 81.3 121.9

192 19.3 16.9 25.3





#39

Methylcyclohexane

Concen: 2.770 ug/l

RT: 9.185 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

Instrument :

MSVOA_Y

ClientSampleId :

G-1-(5-10)

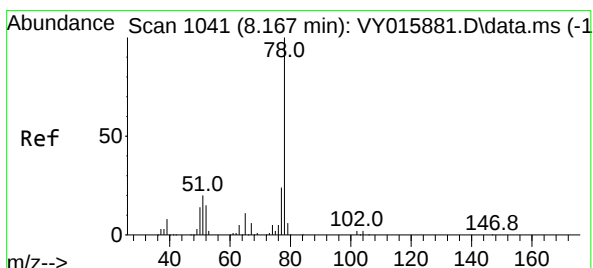
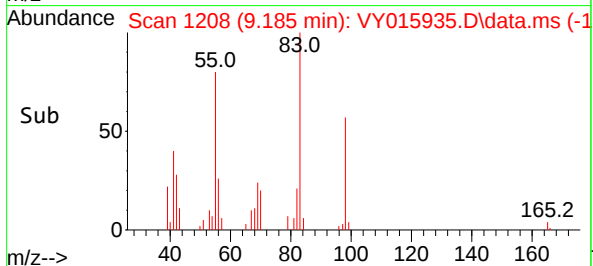
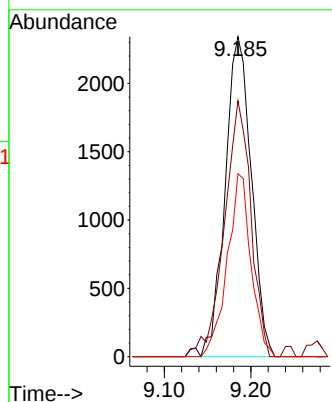
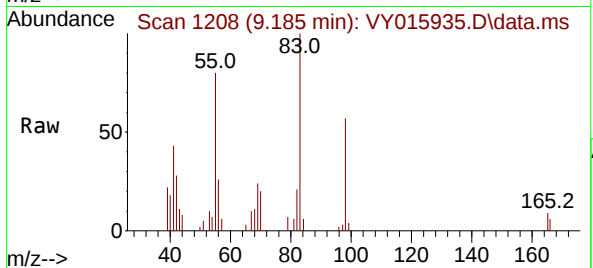
Tgt Ion: 83 Resp: 4968

Ion Ratio Lower Upper

83 100

55 79.9 63.0 94.4

98 57.2 37.4 56.2#



#40

Benzene

Concen: 23.578 ug/l

RT: 8.161 min Scan# 1040

Delta R.T. -0.006 min

Lab File: VY015935.D

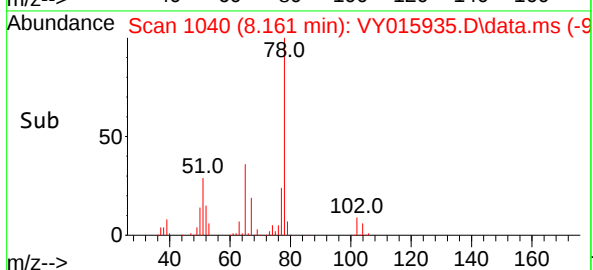
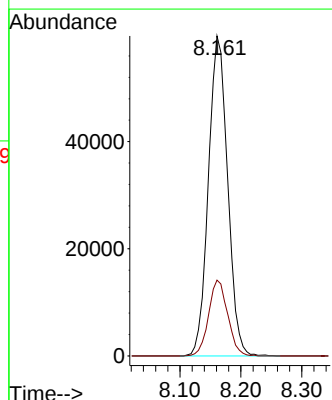
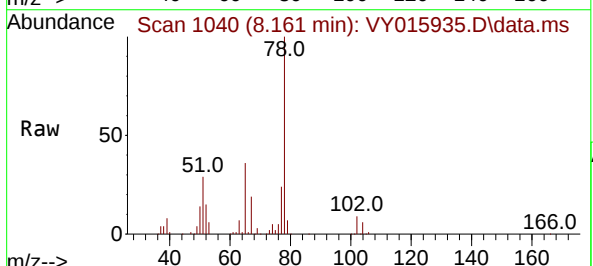
Acq: 11 Oct 2023 19:39

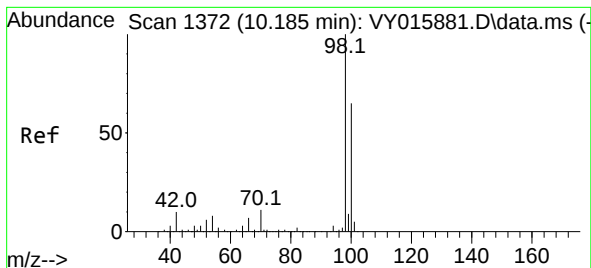
Tgt Ion: 78 Resp: 130840

Ion Ratio Lower Upper

78 100

77 23.7 19.0 28.6





#50

Toluene-d8

Concen: 64.318 ug/l

RT: 10.185 min Scan# 1372

Delta R.T. 0.000 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

Instrument :

MSVOA_Y

ClientSampleId :

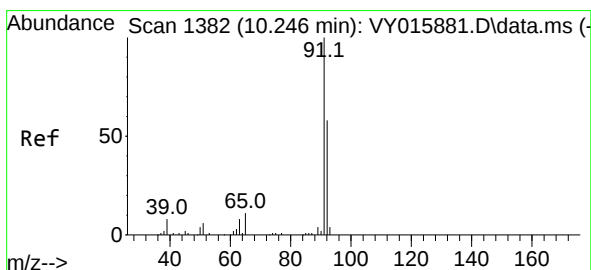
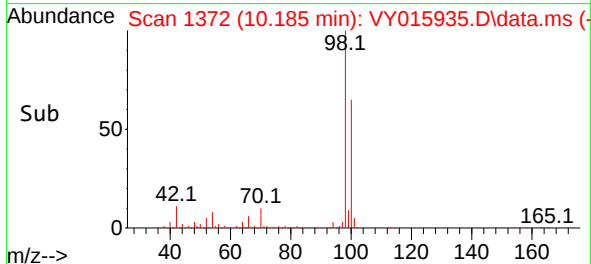
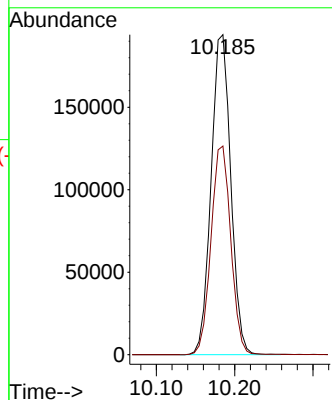
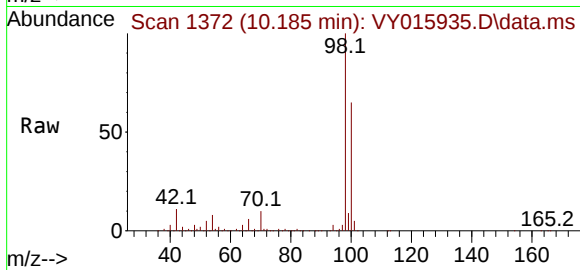
G-1-(5-10)

Tgt Ion: 98 Resp: 337961

Ion Ratio Lower Upper

98 100

100 65.7 50.1 75.1



#52

Toluene

Concen: 8.752 ug/l

RT: 10.246 min Scan# 1382

Delta R.T. 0.000 min

Lab File: VY015935.D

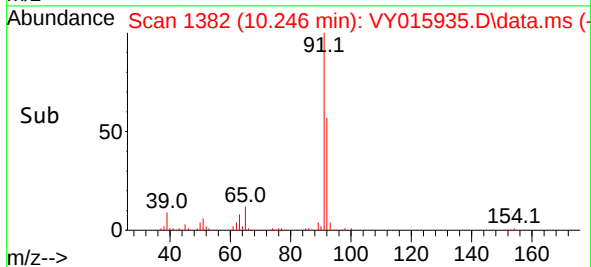
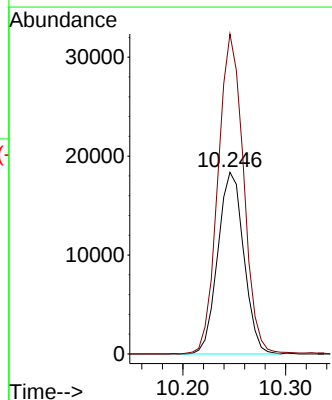
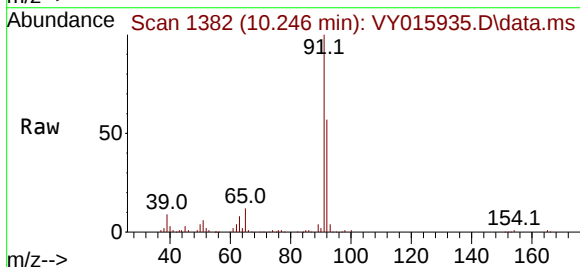
Acq: 11 Oct 2023 19:39

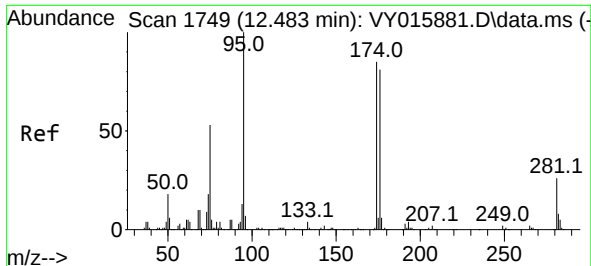
Tgt Ion: 92 Resp: 32238

Ion Ratio Lower Upper

92 100

91 173.5 143.8 215.6





#62

4-Bromofluorobenzene

Concen: 54.096 ug/l

RT: 12.483 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

Instrument :

MSVOA_Y

ClientSampleId :

G-1-(5-10)

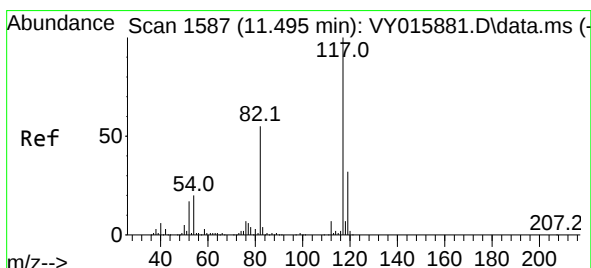
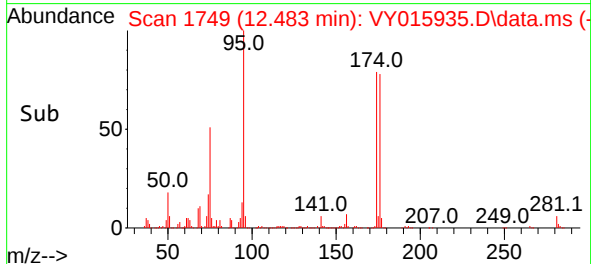
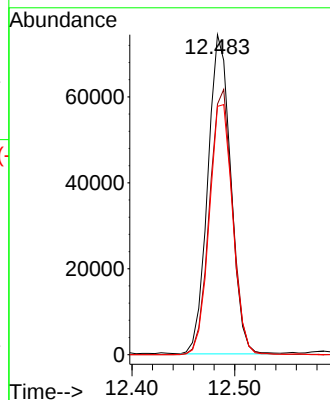
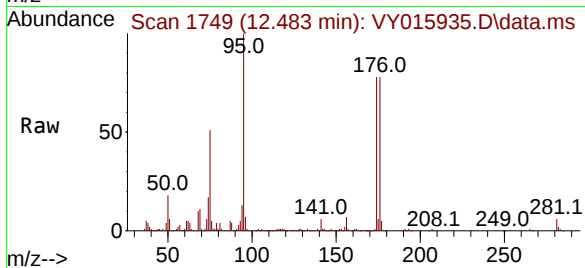
Tgt Ion: 95 Resp: 115456

Ion Ratio Lower Upper

95 100

174 83.8 0.0 178.2

176 79.9 0.0 173.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 1587

Delta R.T. 0.000 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

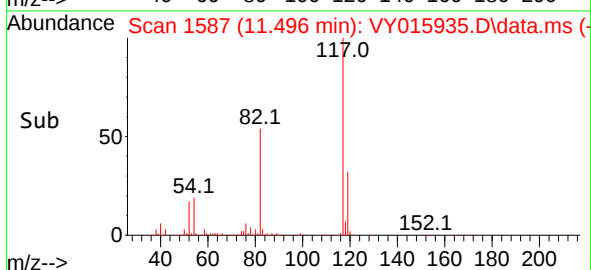
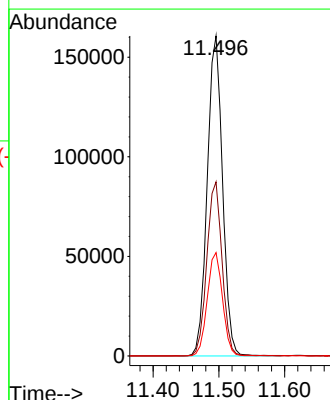
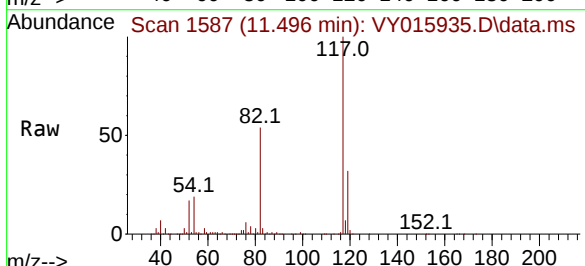
Tgt Ion: 117 Resp: 259621

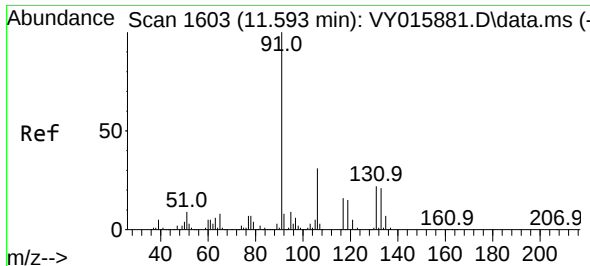
Ion Ratio Lower Upper

117 100

82 54.4 43.4 65.0

119 32.3 26.3 39.5





#67

Ethyl Benzene

Concen: 4.719 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. 0.000 min

Lab File: VY015935.D

Acq: 11 Oct 2023 19:39

Instrument :

MSVOA_Y

ClientSampleId :

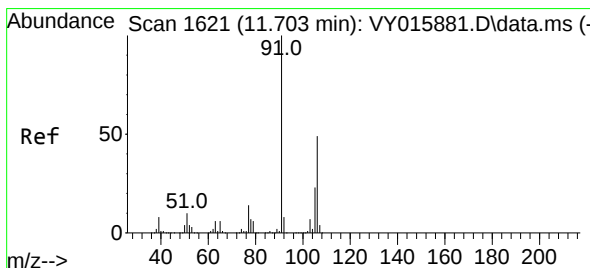
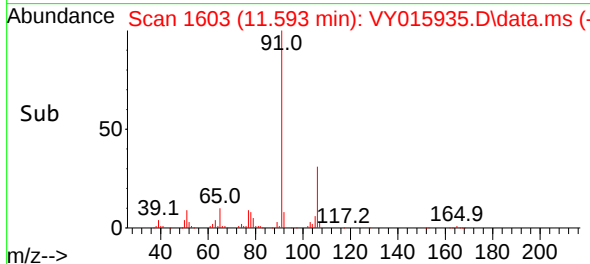
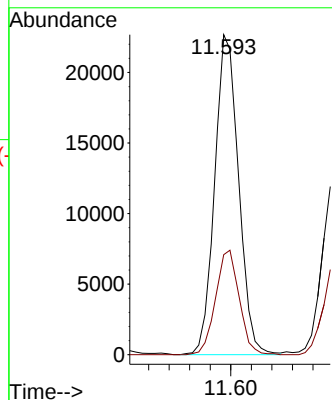
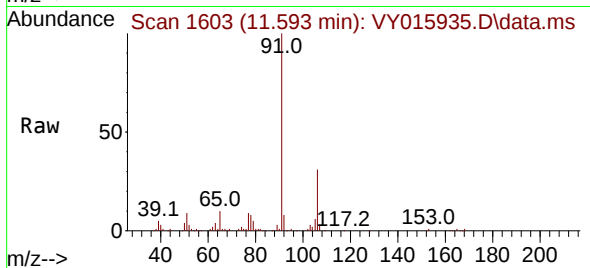
G-1-(5-10)

Tgt Ion: 91 Resp: 36664

Ion Ratio Lower Upper

91 100

106 31.2 24.6 36.8



#68

m/p-Xylenes

Concen: 4.354 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. 0.000 min

Lab File: VY015935.D

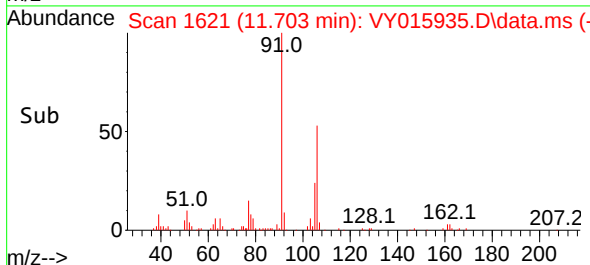
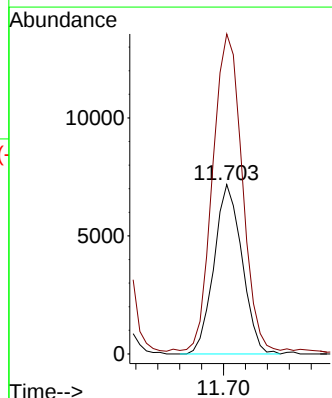
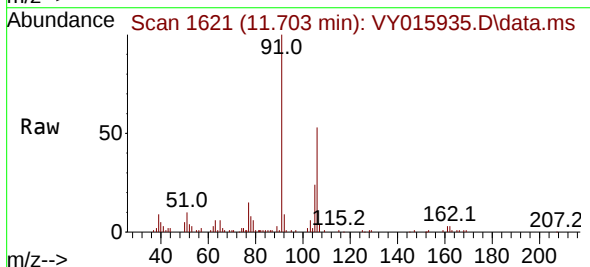
Acq: 11 Oct 2023 19:39

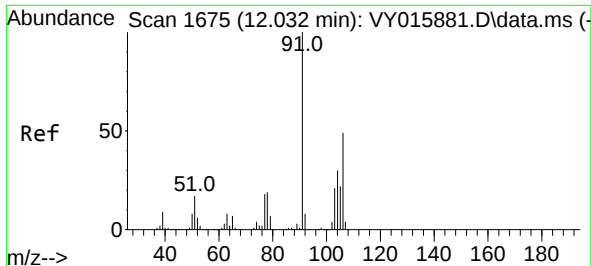
Tgt Ion: 106 Resp: 12745

Ion Ratio Lower Upper

106 100

91 200.9 166.1 249.1

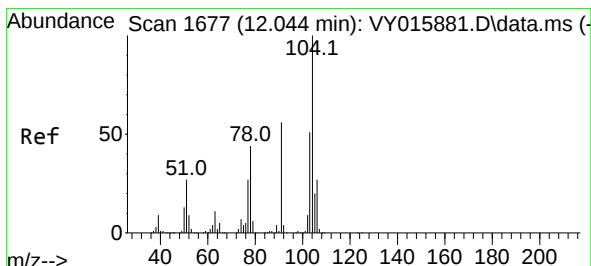
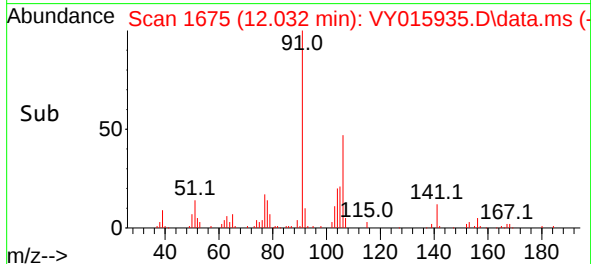
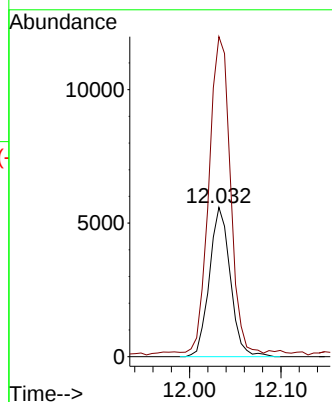
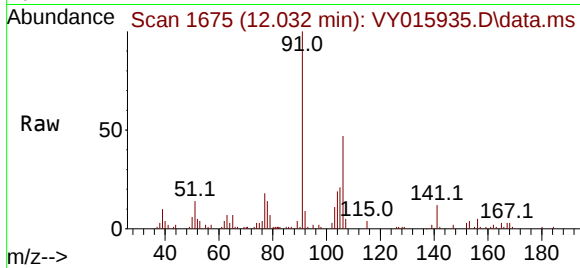




#69
o-Xylene
Concen: 3.027 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VY015935.D
Acq: 11 Oct 2023 19:39

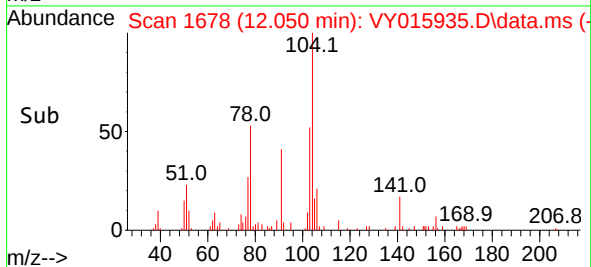
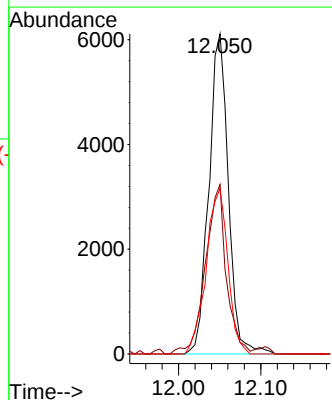
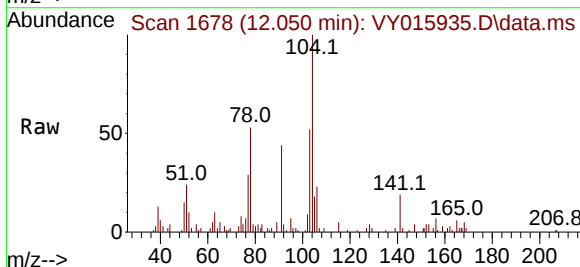
Instrument :
MSVOA_Y
ClientSampleId :
G-1-(5-10)

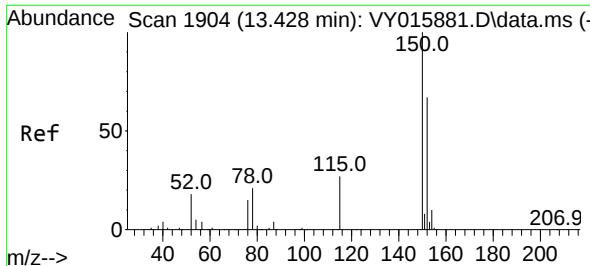
Tgt Ion:106 Resp: 8866
Ion Ratio Lower Upper
106 100
91 216.3 108.1 324.3



#70
Styrene
Concen: 1.970 ug/l
RT: 12.050 min Scan# 1678
Delta R.T. 0.006 min
Lab File: VY015935.D
Acq: 11 Oct 2023 19:39

Tgt Ion:104 Resp: 10070
Ion Ratio Lower Upper
104 100
78 56.6 41.5 62.3
103 57.6 44.6 67.0

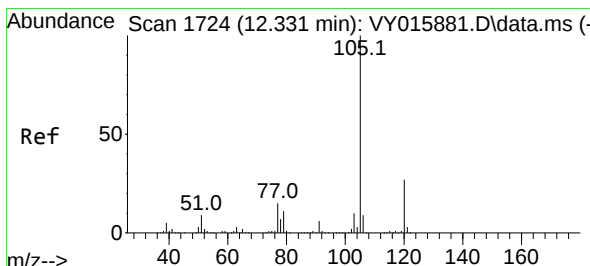
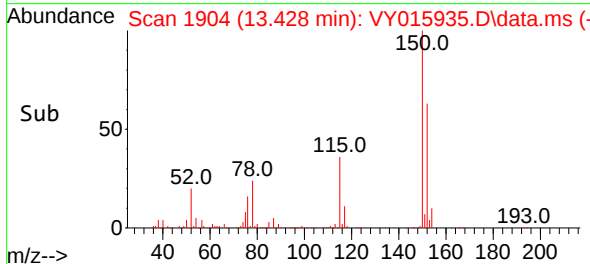
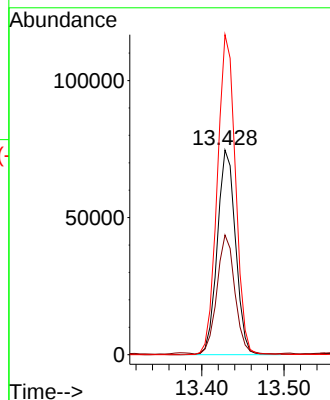
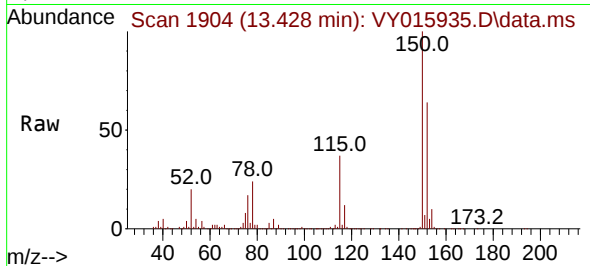




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 114983
Delta R.T. 0.000 min
Lab File: VY015935.D
Acq: 11 Oct 2023 19:39

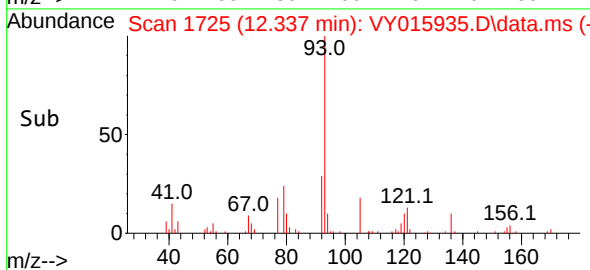
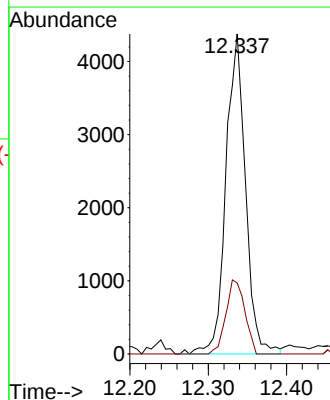
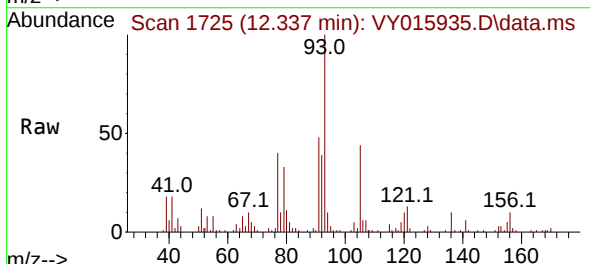
Instrument :
MSVOA_Y
ClientSampleId :
G-1-(5-10)

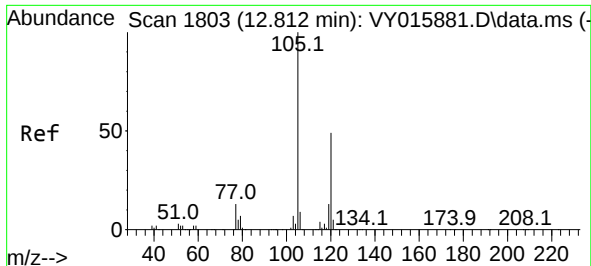
Tgt Ion:152 Resp: 114983
Ion Ratio Lower Upper
152 100
115 57.1 28.8 86.5
150 155.9 0.0 348.8



#73
Isopropylbenzene
Concen: 1.052 ug/l
RT: 12.337 min Scan# 1725
Delta R.T. 0.006 min
Lab File: VY015935.D
Acq: 11 Oct 2023 19:39

Tgt Ion:105 Resp: 7629
Ion Ratio Lower Upper
105 100
120 22.3 13.3 39.9

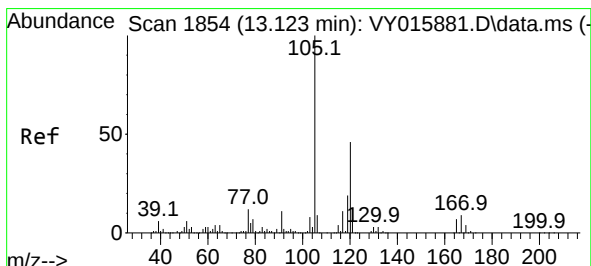
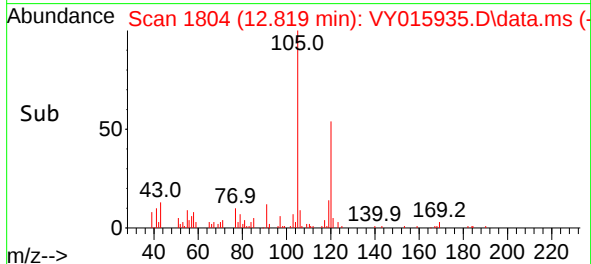
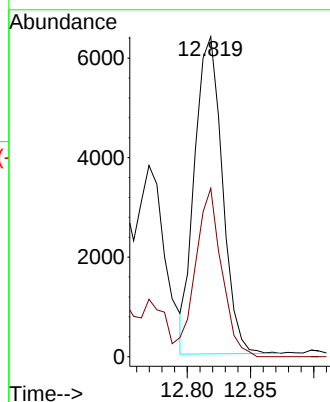
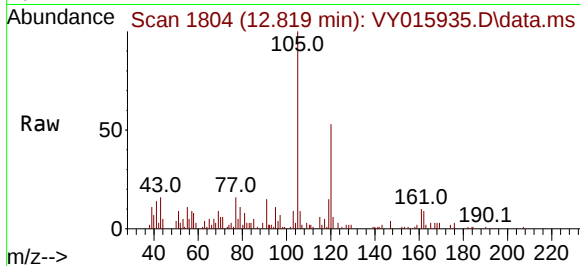




#80
1,3,5-Trimethylbenzene
Concen: 1.621 ug/l
RT: 12.819 min Scan# 1804
Delta R.T. 0.006 min
Lab File: VY015935.D
Acq: 11 Oct 2023 19:39

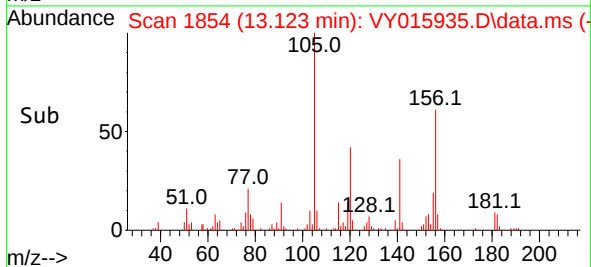
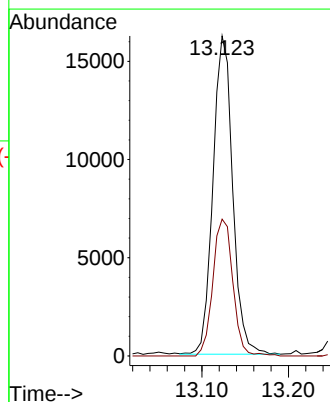
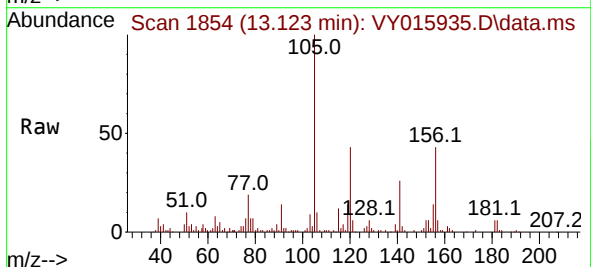
Instrument :
MSVOA_Y
ClientSampleId :
G-1-(5-10)

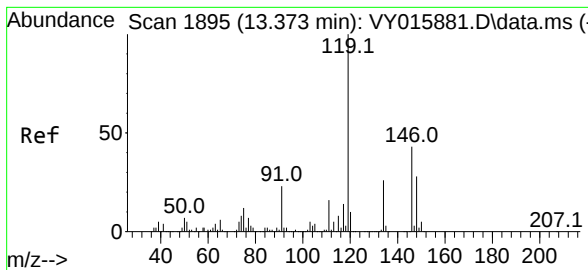
Tgt Ion:105 Resp: 9690
Ion Ratio Lower Upper
105 100
120 50.6 23.9 71.7



#84
1,2,4-Trimethylbenzene
Concen: 4.250 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. 0.000 min
Lab File: VY015935.D
Acq: 11 Oct 2023 19:39

Tgt Ion:105 Resp: 25586
Ion Ratio Lower Upper
105 100
120 43.7 22.2 66.6





#86
 p-Isopropyltoluene
 Concen: 1.298 ug/l
 RT: 13.373 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY015935.D
 Acq: 11 Oct 2023 19:39

Instrument :
 MSVOA_Y
 ClientSampleId :
 G-1-(5-10)

Tgt Ion:	119	Resp:	8784
Ion	Ratio	Lower	Upper
119	100		
134	27.4	13.3	39.8
91	24.4	12.4	37.4

