

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY120925\
 Data File : VY023912.D
 Acq On : 09 Dec 2025 16:40
 Operator : SY/MD
 Sample : Q3809-08
 Misc : 2.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SW-5

Quant Time: Dec 10 02:30:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 03:49:13 2025
 Response via : Initial Calibration

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

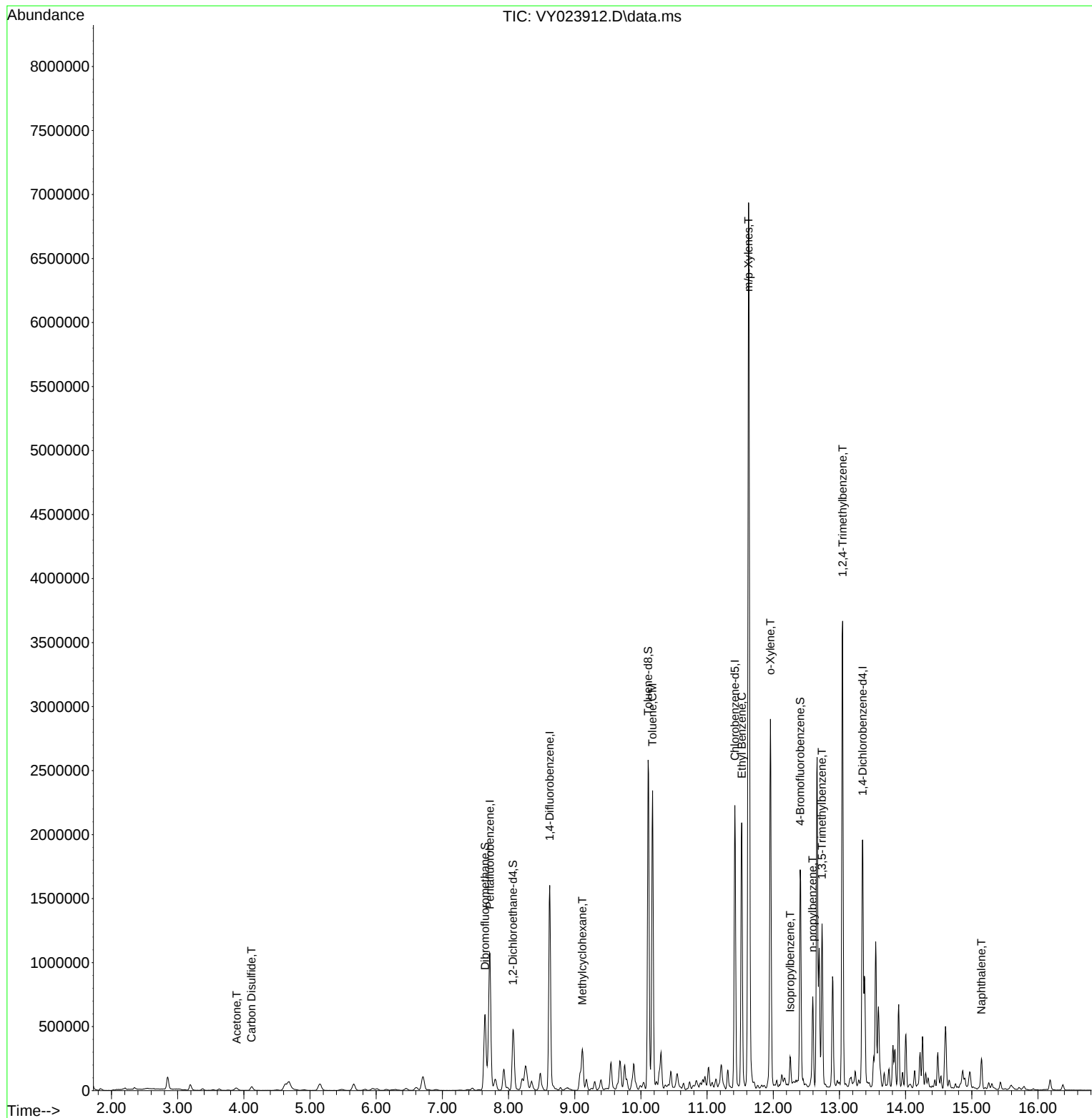
Internal Standards						
1) Pentafluorobenzene	7.719	168	823549	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1392287	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	1218144	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	535176	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	372034	45.158	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	90.320%		
35) Dibromofluoromethane	7.646	113	424858	47.578	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.160%		
50) Toluene-d8	10.109	98	1608878	46.300	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	92.600%		
62) 4-Bromofluorobenzene	12.408	95	503081	42.446	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	84.900%		
Target Compounds					Qvalue	
16) Acetone	3.891	43	32054	12.984	ug/l	92
17) Carbon Disulfide	4.116	76	60907	2.598	ug/l	99
39) Methylcyclohexane	9.116	83	130669	7.624	ug/l	96
52) Toluene	10.176	92	970167	38.926	ug/l	99
67) Ethyl Benzene	11.524	91	1401137	29.150	ug/l	97
68) m/p-Xylenes	11.627	106	2105229	114.589	ug/l	95
69) o-Xylene	11.957	106	781525	45.480	ug/l	97
73) Isopropylbenzene	12.255	105	142178	3.606	ug/l	97
78) n-propylbenzene	12.597	91	521707	10.965	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	574746	17.939	ug/l	98
84) 1,2,4-Trimethylbenzene	13.048	105	1959908	61.750	ug/l	95
95) Naphthalene	15.145	128	197195	12.577	ug/l	99

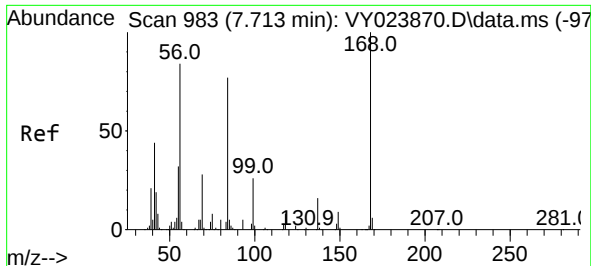
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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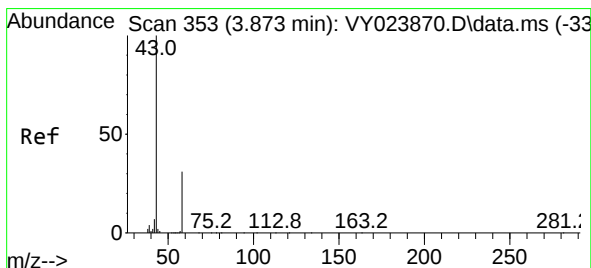
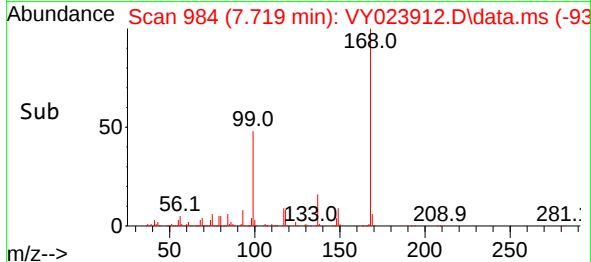
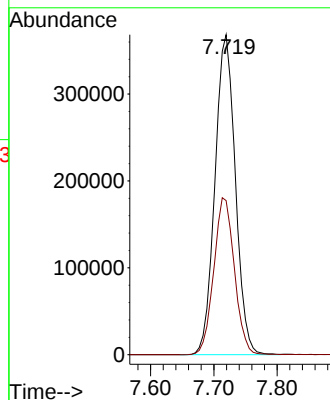
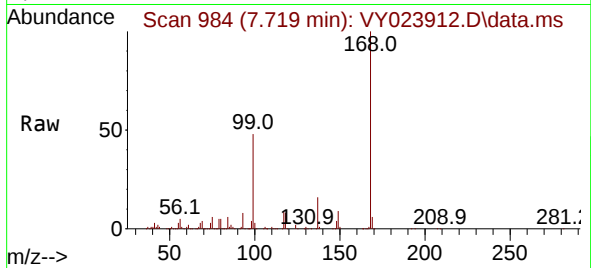




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

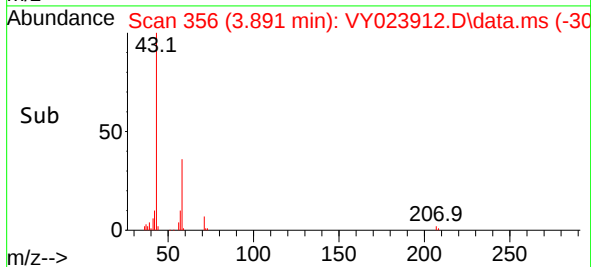
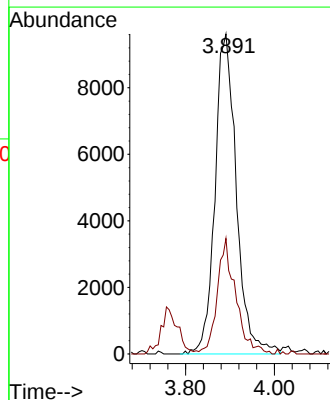
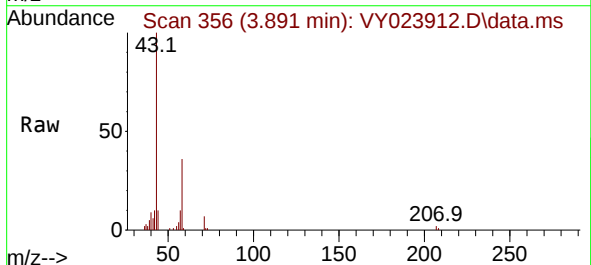
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

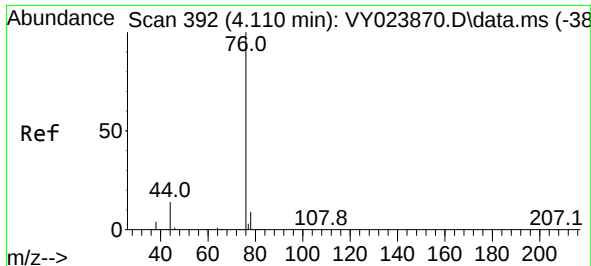
Tgt Ion:168 Resp: 823549
Ion Ratio Lower Upper
168 100
99 48.2 42.5 63.7



#16
Acetone
Concen: 12.984 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.018 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

Tgt Ion: 43 Resp: 32054
Ion Ratio Lower Upper
43 100
58 36.1 25.1 37.7

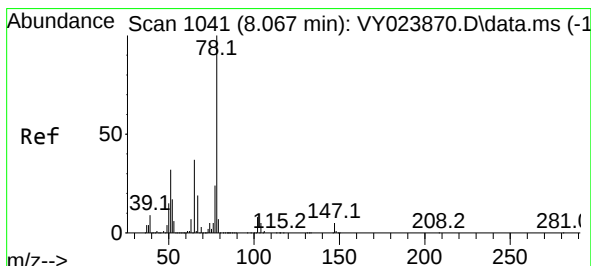
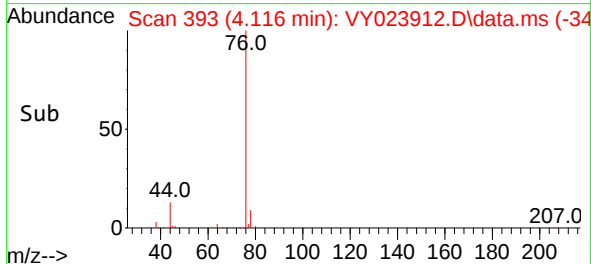
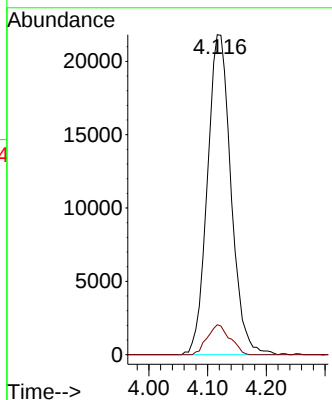
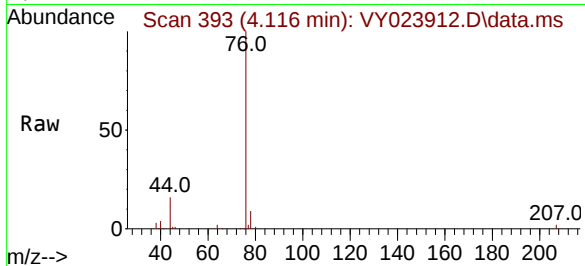




#17
Carbon Disulfide
Concen: 2.598 ug/l
RT: 4.116 min Scan# 392
Delta R.T. 0.006 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

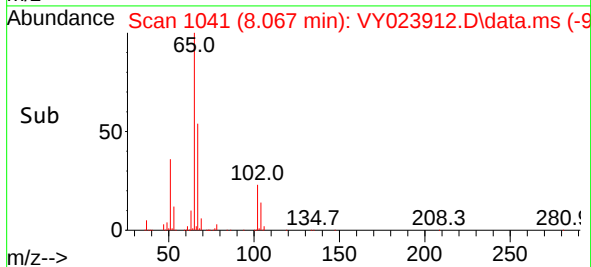
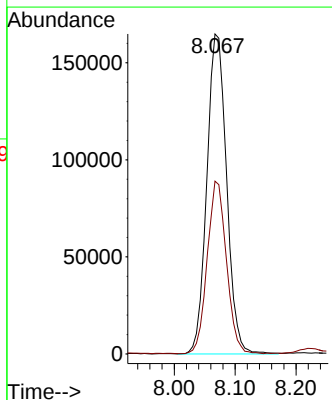
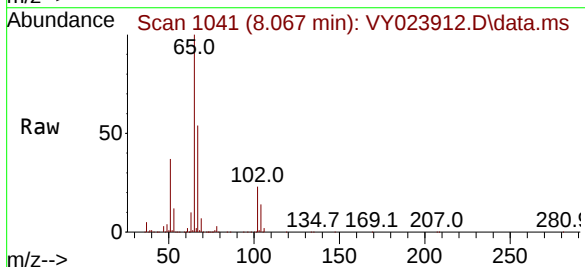
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

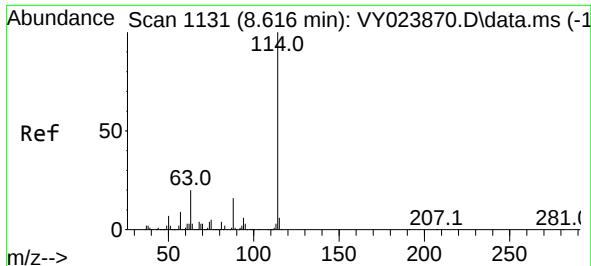
Tgt Ion: 76 Resp: 60907
Ion Ratio Lower Upper
76 100
78 9.4 7.1 10.7



#33
1,2-Dichloroethane-d4
Concen: 45.158 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.000 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

Tgt Ion: 65 Resp: 372034
Ion Ratio Lower Upper
65 100
67 52.3 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. 0.006 min

Lab File: VY023912.D

Acq: 09 Dec 2025 16:40

Instrument :

MSVOA_Y

ClientSampleId :

SW-5

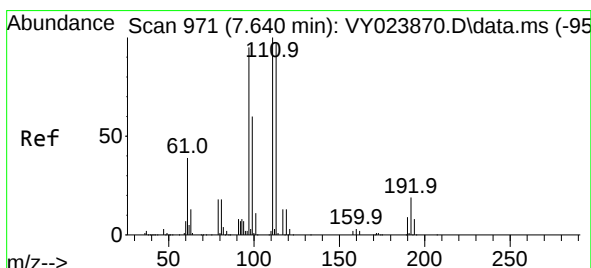
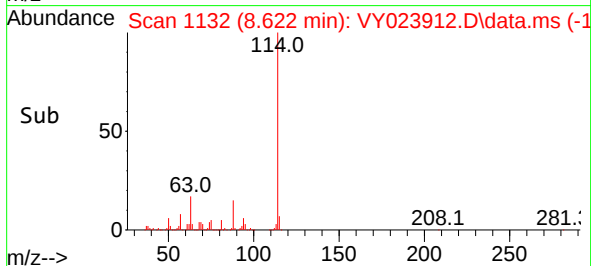
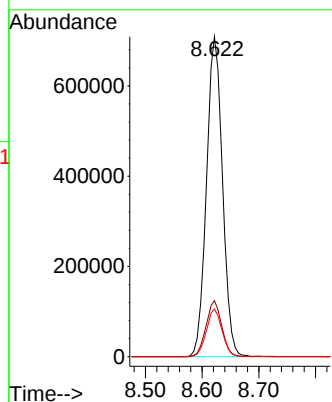
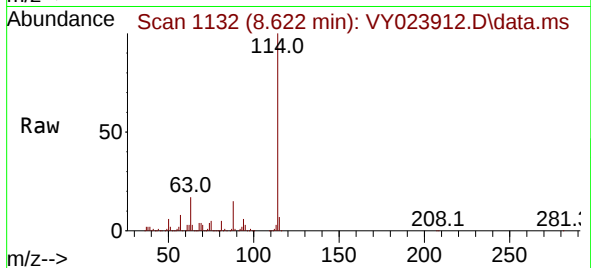
Tgt Ion:114 Resp: 1392287

Ion Ratio Lower Upper

114 100

63 17.5 0.0 39.2

88 14.9 0.0 31.4



#35

Dibromofluoromethane

Concen: 47.578 ug/l

RT: 7.646 min Scan# 972

Delta R.T. 0.006 min

Lab File: VY023912.D

Acq: 09 Dec 2025 16:40

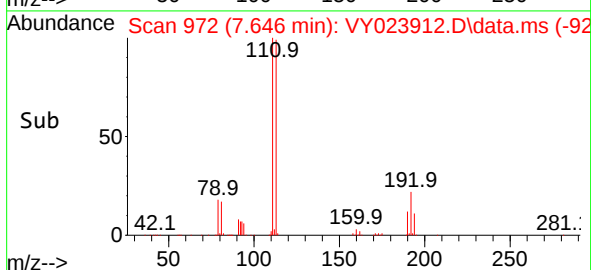
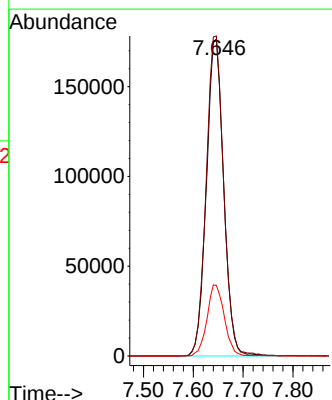
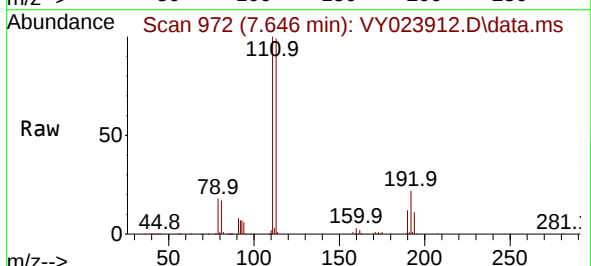
Tgt Ion:113 Resp: 424858

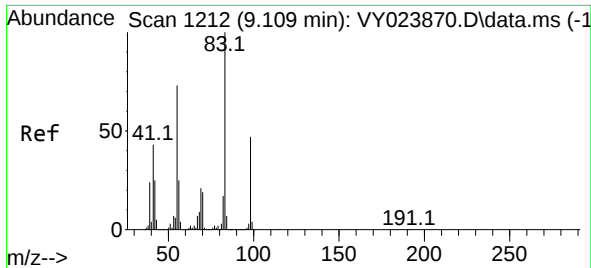
Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.2

192 22.5 15.8 23.8

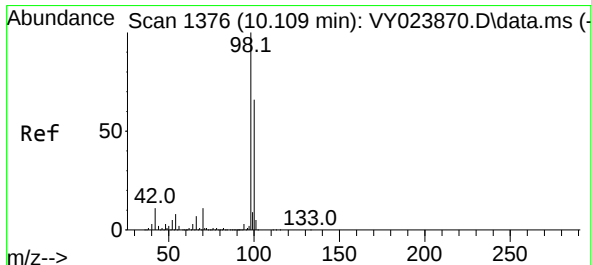
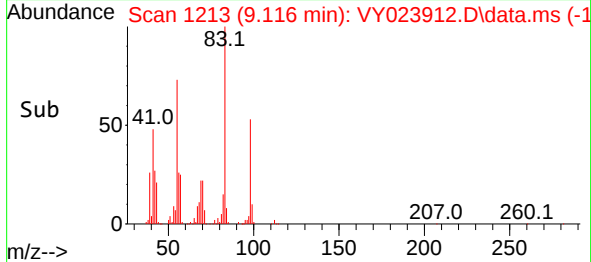
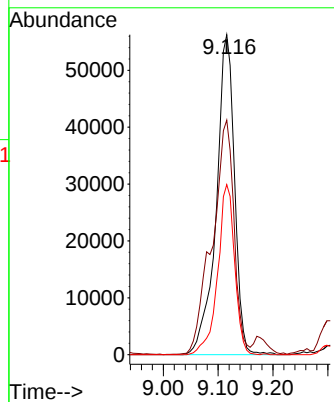
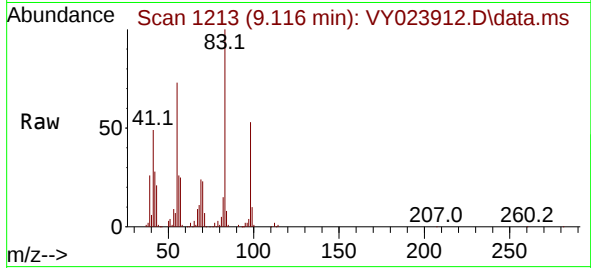




#39
Methylcyclohexane
Concen: 7.624 ug/l
RT: 9.116 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

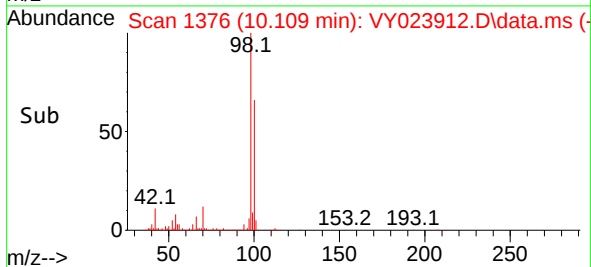
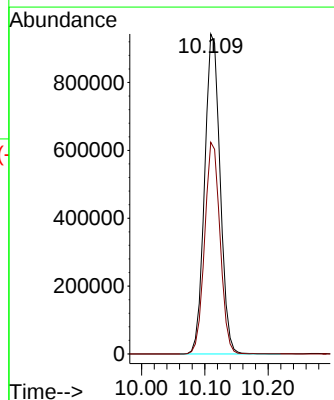
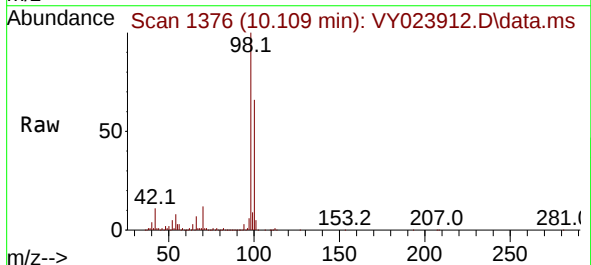
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

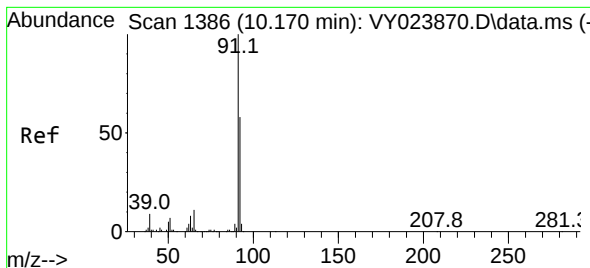
Tgt Ion: 83 Resp: 130669
Ion Ratio Lower Upper
83 100
55 73.1 58.8 88.2
98 53.1 37.8 56.6



#50
Toluene-d8
Concen: 46.300 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

Tgt Ion: 98 Resp: 1608878
Ion Ratio Lower Upper
98 100
100 65.7 52.5 78.7





#52

Toluene

Concen: 38.926 ug/l

RT: 10.176 min Scan# 1386

Delta R.T. 0.006 min

Lab File: VY023912.D

Acq: 09 Dec 2025 16:40

Instrument :

MSVOA_Y

ClientSampleId :

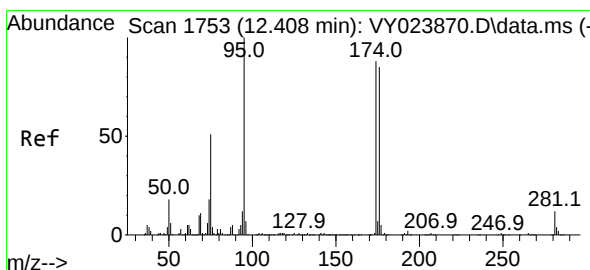
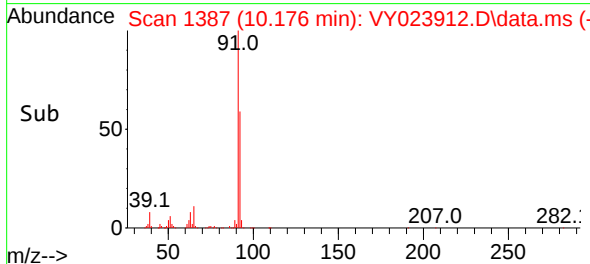
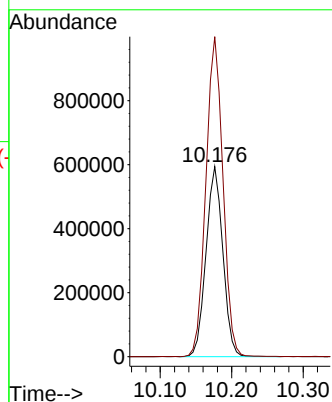
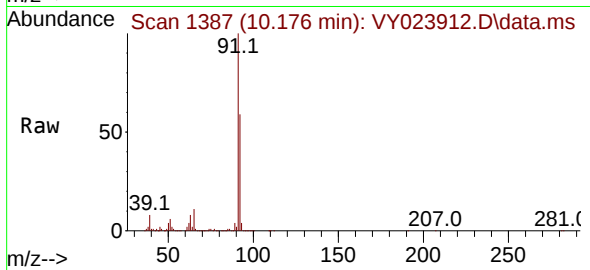
SW-5

Tgt Ion: 92 Resp: 970167

Ion Ratio Lower Upper

92 100

91 170.5 137.3 205.9



#62

4-Bromofluorobenzene

Concen: 42.446 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.000 min

Lab File: VY023912.D

Acq: 09 Dec 2025 16:40

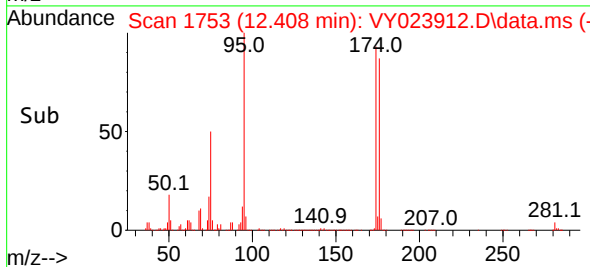
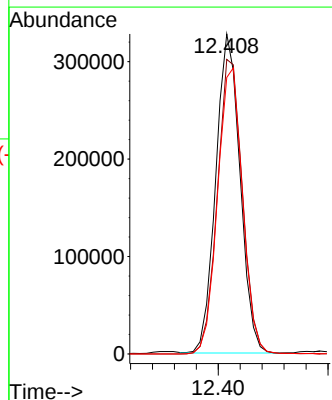
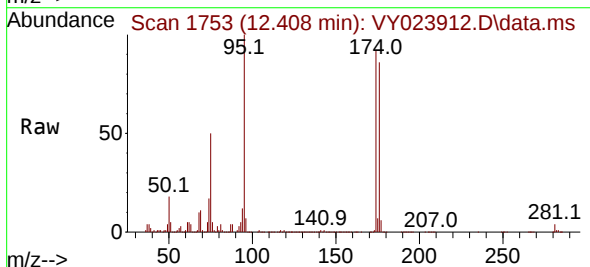
Tgt Ion: 95 Resp: 503081

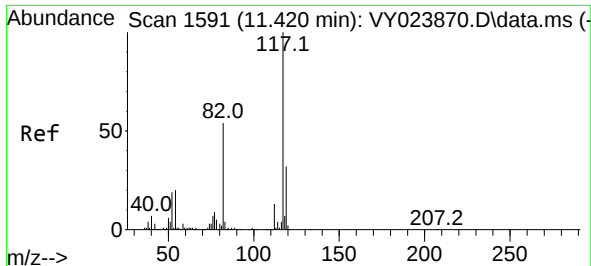
Ion Ratio Lower Upper

95 100

174 95.3 0.0 169.6

176 92.4 0.0 164.4

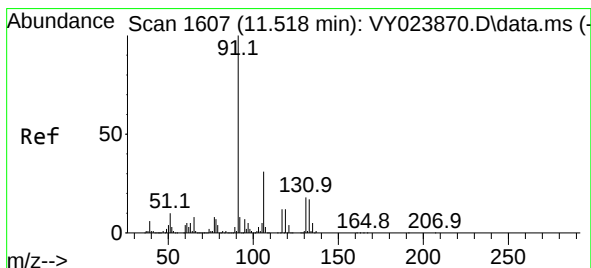
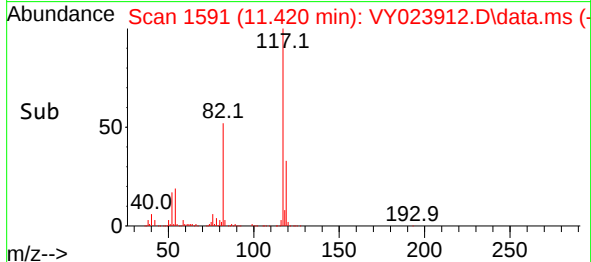
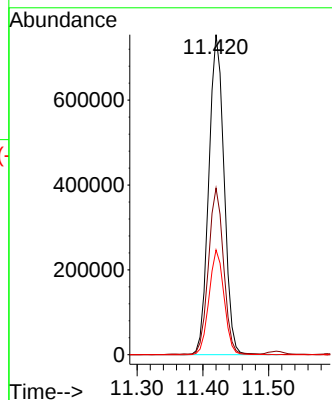
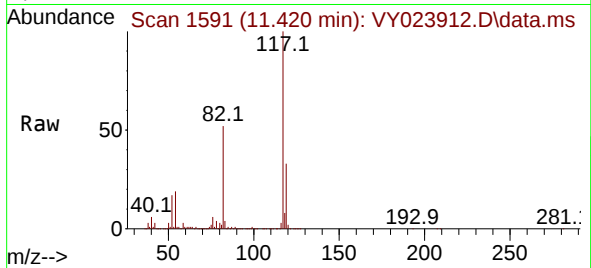




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

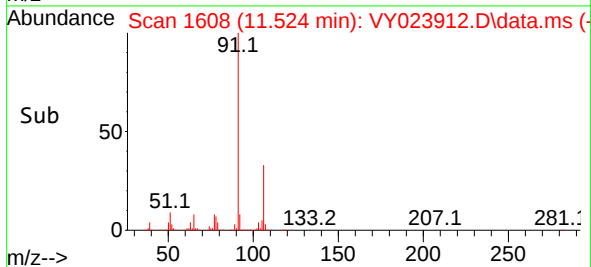
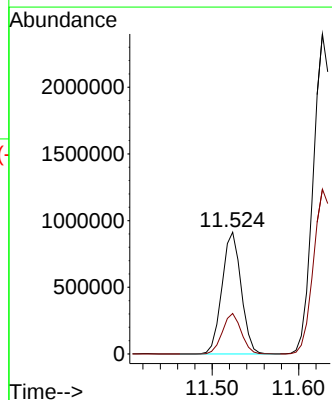
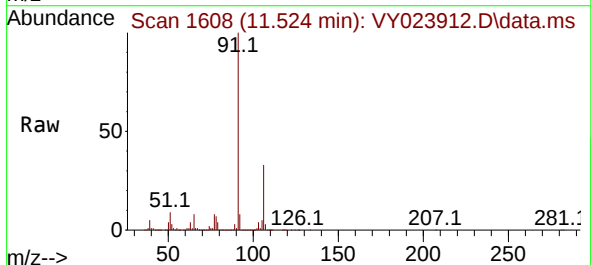
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SW-5

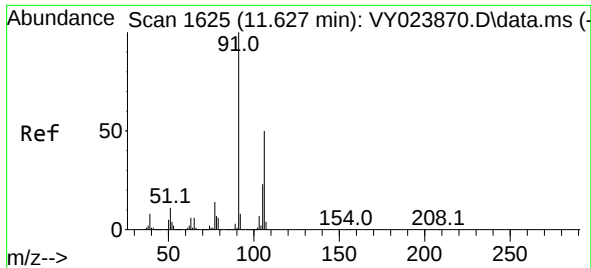
Tgt Ion:117 Resp: 1218144
Ion Ratio Lower Upper
117 100
82 51.9 43.1 64.7
119 32.7 26.0 39.0



#67
Ethyl Benzene
Concen: 29.150 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. 0.006 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

Tgt Ion: 91 Resp: 1401137
Ion Ratio Lower Upper
91 100
106 33.2 25.0 37.6

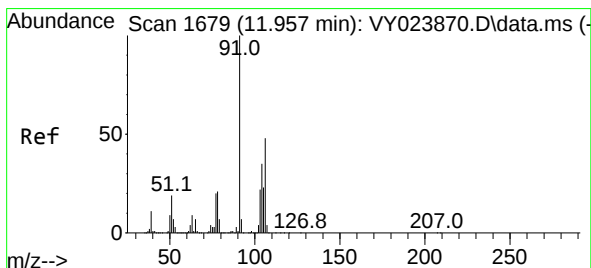
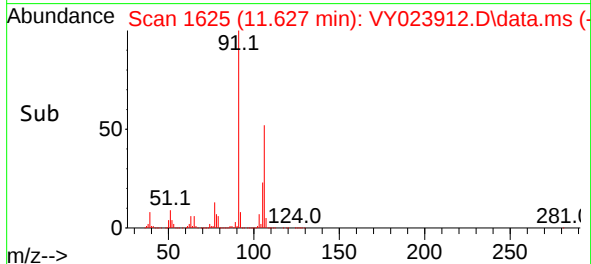
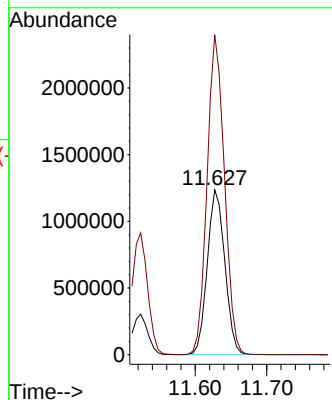
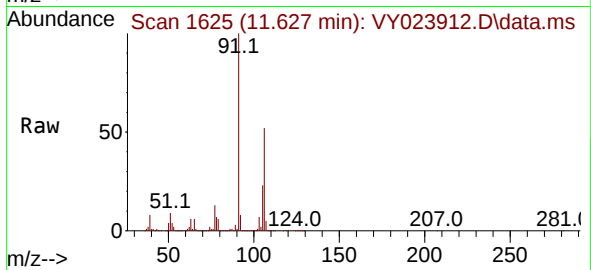




#68
m/p-Xylenes
Concen: 114.589 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

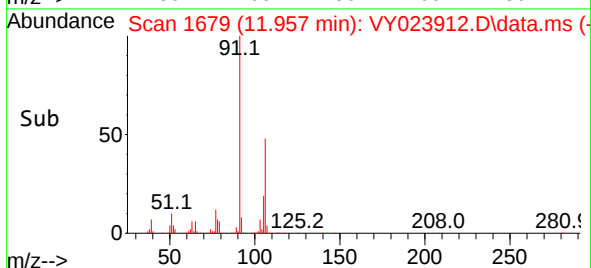
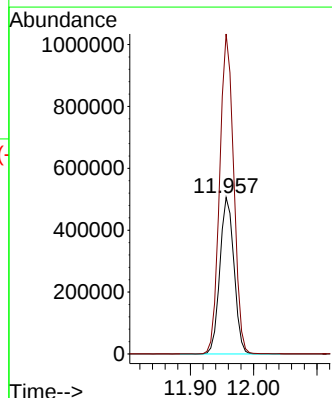
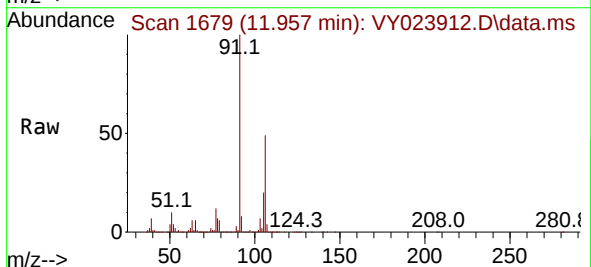
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

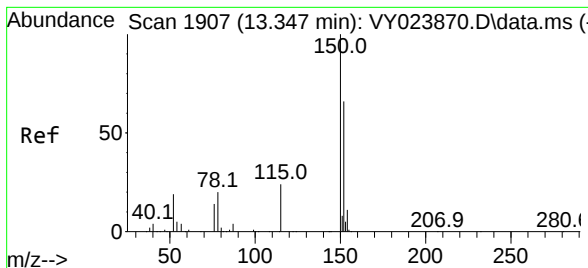
Tgt Ion:106 Resp: 2105229
Ion Ratio Lower Upper
106 100
91 191.9 159.7 239.5



#69
o-Xylene
Concen: 45.480 ug/l
RT: 11.957 min Scan# 1679
Delta R.T. -0.000 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

Tgt Ion:106 Resp: 781525
Ion Ratio Lower Upper
106 100
91 203.5 104.4 313.1

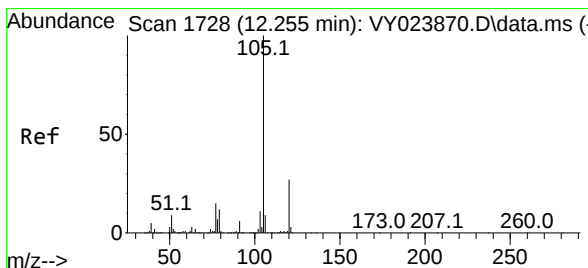
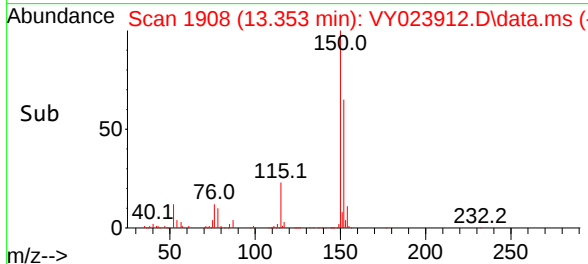
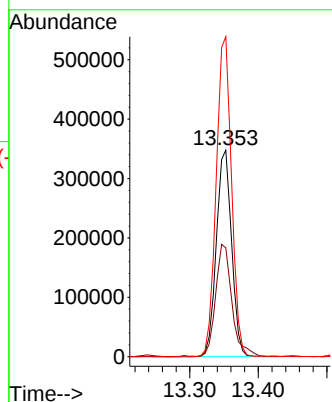
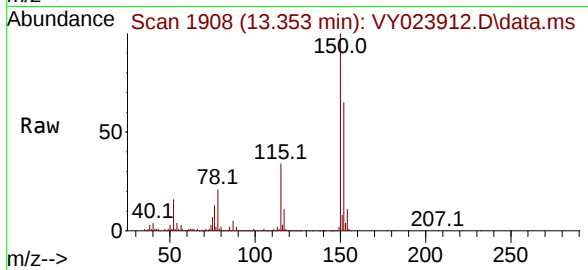




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

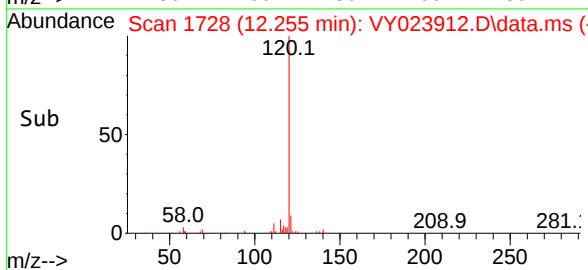
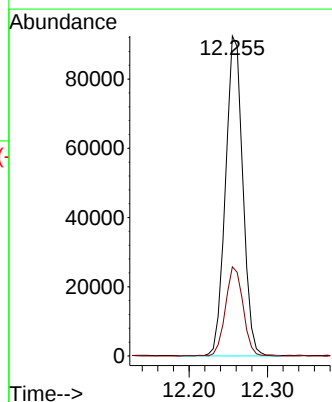
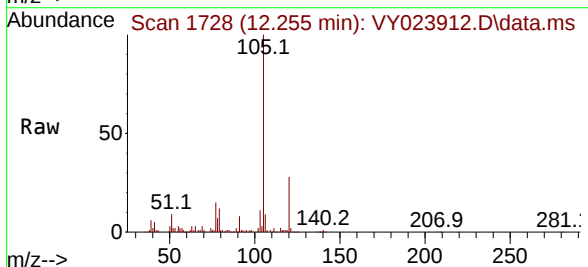
Instrument :
MSVOA_Y
ClientSampleId :
SW-5

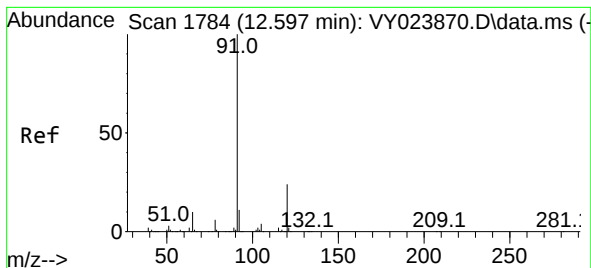
Tgt Ion:152 Resp: 535176
Ion Ratio Lower Upper
152 100
115 57.5 28.8 86.4
150 155.4 0.0 352.2



#73
Isopropylbenzene
Concen: 3.606 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. -0.000 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

Tgt Ion:105 Resp: 142178
Ion Ratio Lower Upper
105 100
120 28.3 13.4 40.1





#78

n-propylbenzene

Concen: 10.965 ug/l

RT: 12.597 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023912.D

Acq: 09 Dec 2025 16:40

Instrument :

MSVOA_Y

ClientSampleId :

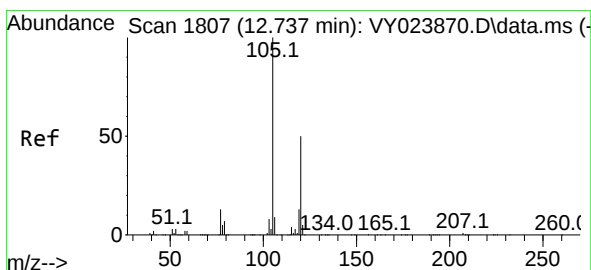
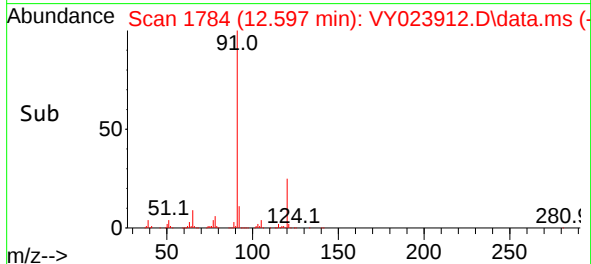
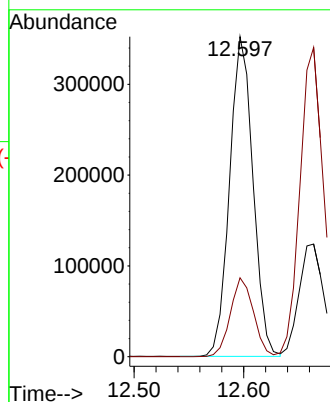
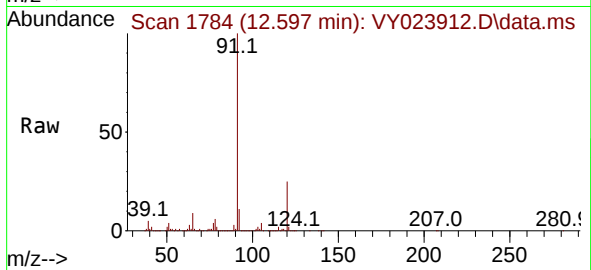
SW-5

Tgt Ion: 91 Resp: 521707

Ion Ratio Lower Upper

91 100

120 24.3 11.5 34.5



#80

1,3,5-Trimethylbenzene

Concen: 17.939 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. -0.000 min

Lab File: VY023912.D

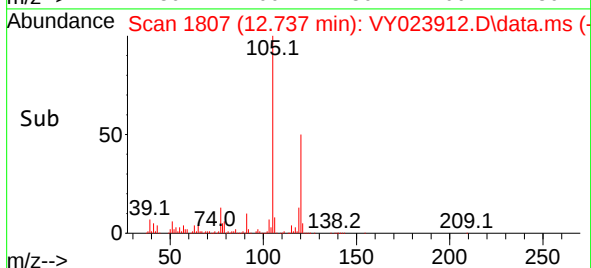
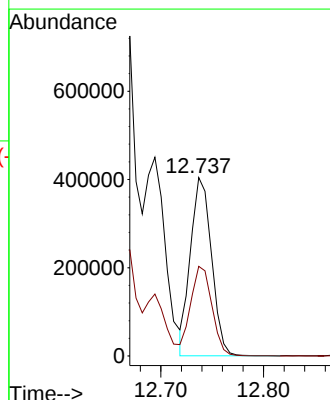
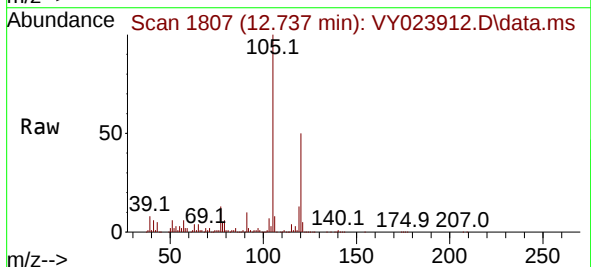
Acq: 09 Dec 2025 16:40

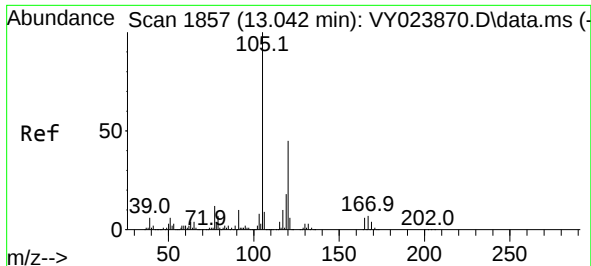
Tgt Ion: 105 Resp: 574746

Ion Ratio Lower Upper

105 100

120 50.8 24.9 74.6

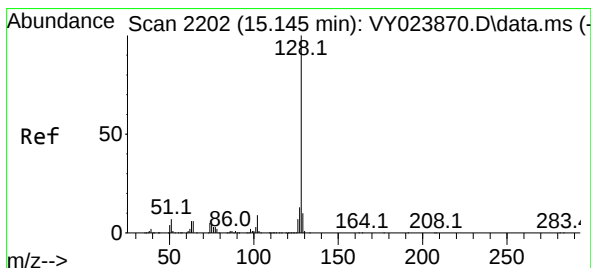
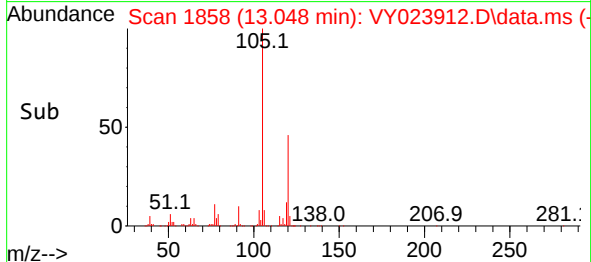
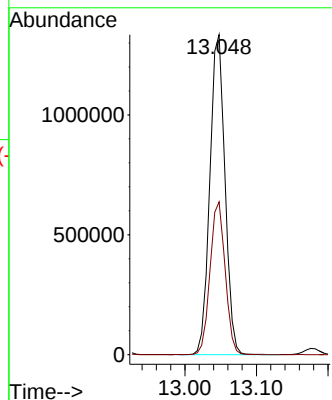
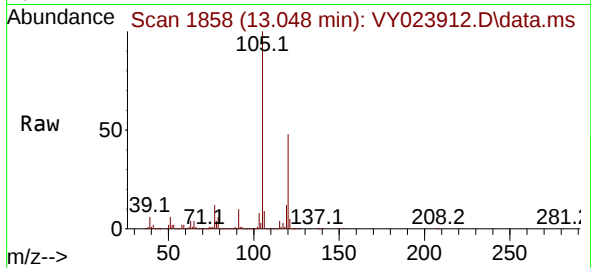




#84
1,2,4-Trimethylbenzene
Concen: 61.750 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

Instrument :
MSVOA_Y
ClientSampleId :
SW-5

Tgt Ion:105 Resp: 1959908
Ion Ratio Lower Upper
105 100
120 47.8 22.4 67.3



#95
Naphthalene
Concen: 12.577 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY023912.D
Acq: 09 Dec 2025 16:40

Tgt Ion:128 Resp: 197195
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.5 8.7 13.1

