

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062425\
 Data File : VY022804.D
 Acq On : 24 Jun 2025 17:50
 Operator : SY/MD
 Sample : Q2403-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

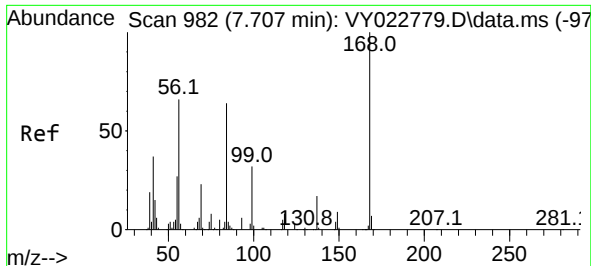
Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0093

Quant Time: Jun 25 01:29:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	379681	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	684135	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	533264	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	116879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	210146	49.591	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.180%		
35) Dibromofluoromethane	7.628	113	205727	49.447	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery =	98.900%		
50) Toluene-d8	10.103	98	774486	46.911	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	93.820%		
62) 4-Bromofluorobenzene	12.402	95	190302	35.856	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	71.720%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.866	59	5169	18.345	ug/l #	86
16) Acetone	3.867	43	11099	13.857	ug/l	90
40) Benzene	8.079	78	19890	1.026	ug/l	95
51) 4-Methyl-2-Pentanone	9.994	43	6094	2.120	ug/l	96
52) Toluene	10.164	92	58118	4.751	ug/l	99
68) m/p-Xylenes	11.621	106	32441	4.076	ug/l	95
69) o-Xylene	11.950	106	12390	1.652	ug/l	91
84) 1,2,4-Trimethylbenzene	13.036	105	59574	8.527	ug/l	97
89) n-Butylbenzene	13.609	91	14741	2.034	ug/l #	63

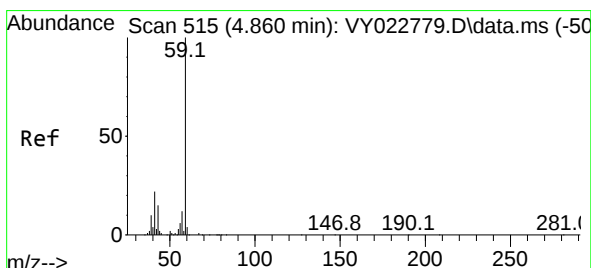
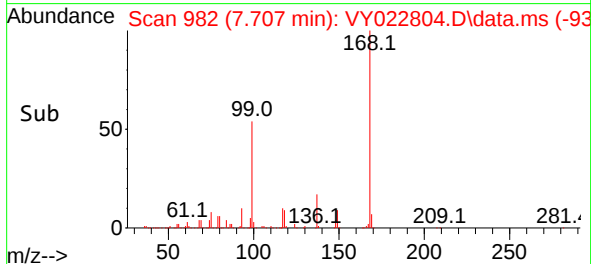
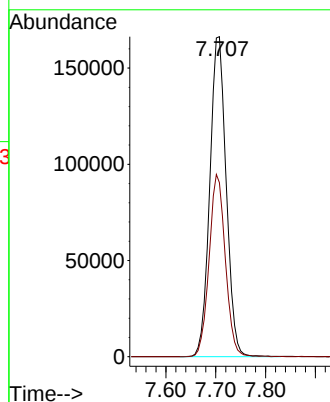
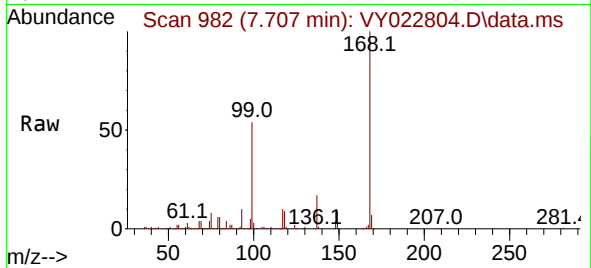
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

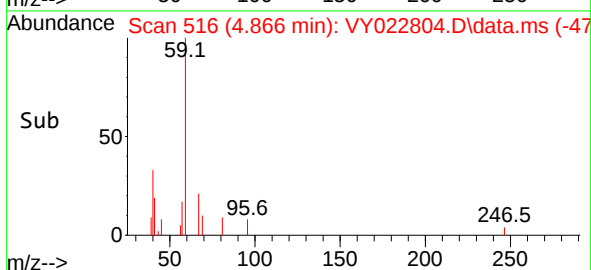
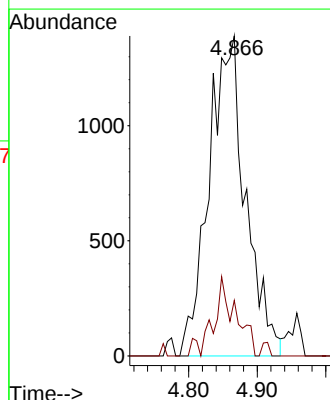
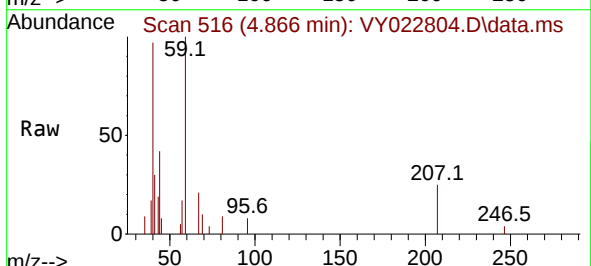
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

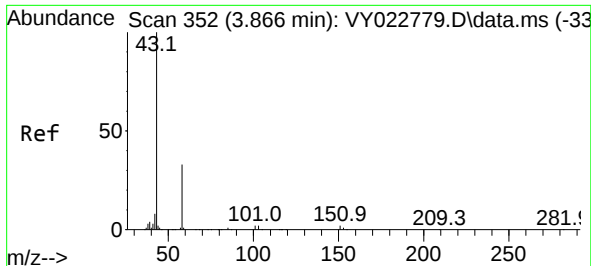
Tgt Ion:168 Resp: 379681
Ion Ratio Lower Upper
168 100
99 54.4 44.3 66.5



#11
Tert butyl alcohol
Concen: 18.345 ug/l
RT: 4.866 min Scan# 516
Delta R.T. -0.018 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 59 Resp: 5169
Ion Ratio Lower Upper
59 100
57 15.3 8.0 12.0#

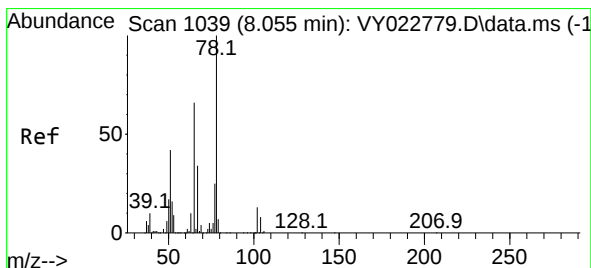
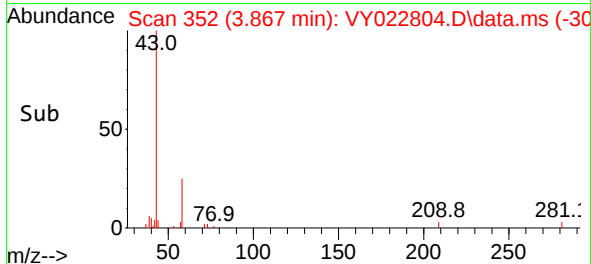
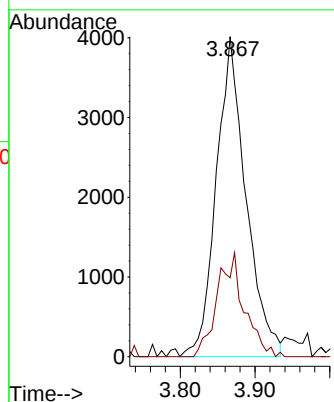
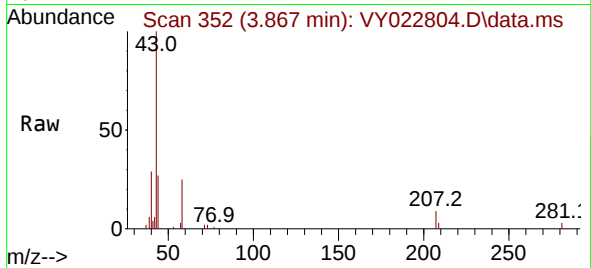




#16
Acetone
Concen: 13.857 ug/l
RT: 3.867 min Scan# 311
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

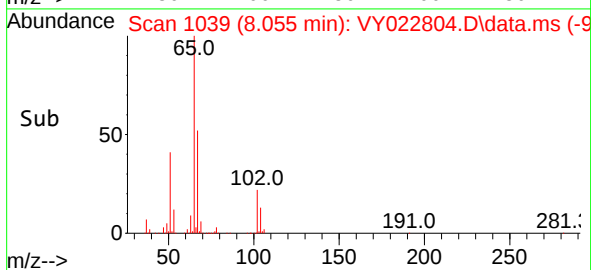
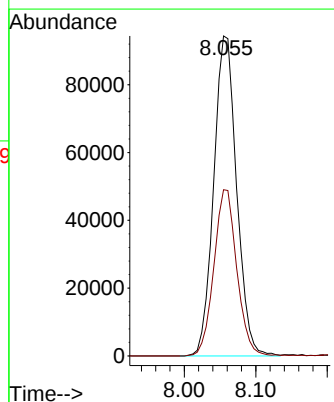
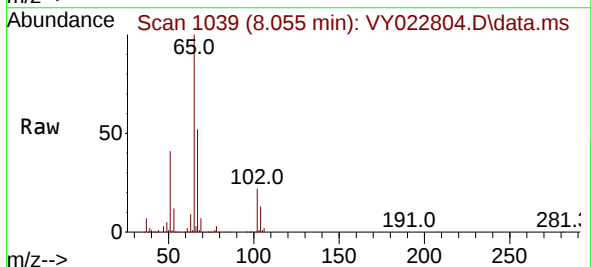
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

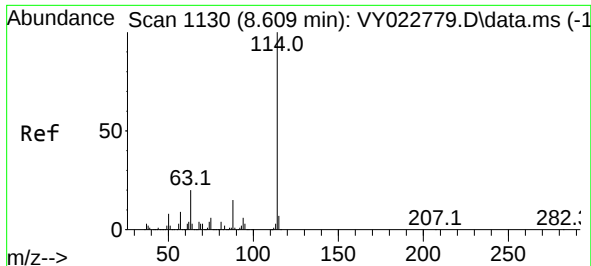
Tgt Ion: 43 Resp: 11099
Ion Ratio Lower Upper
43 100
58 24.7 24.0 36.0



#33
1,2-Dichloroethane-d4
Concen: 49.591 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 65 Resp: 210146
Ion Ratio Lower Upper
65 100
67 52.2 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0093

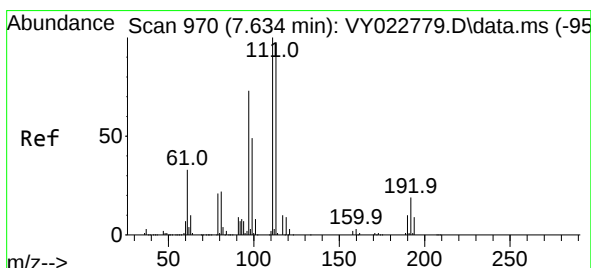
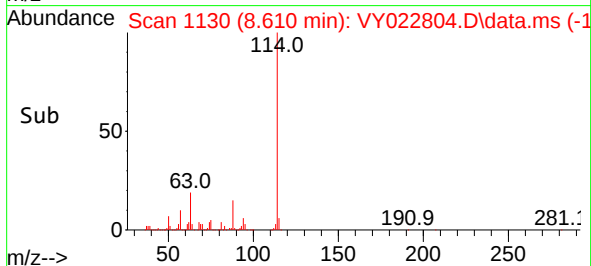
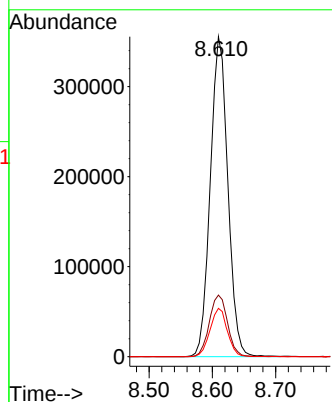
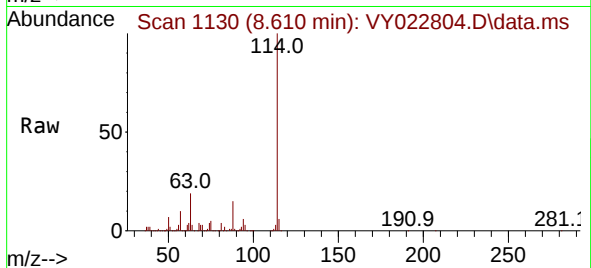
Tgt Ion:114 Resp: 684135

Ion Ratio Lower Upper

114 100

63 19.3 0.0 40.8

88 15.1 0.0 27.8



#35

Dibromofluoromethane

Concen: 49.447 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.012 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

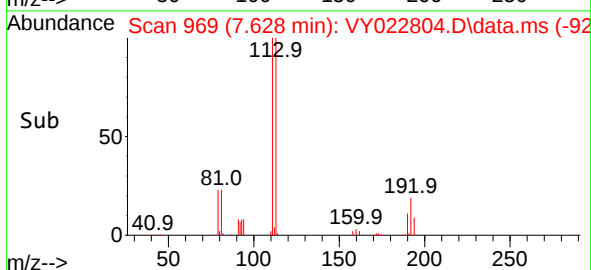
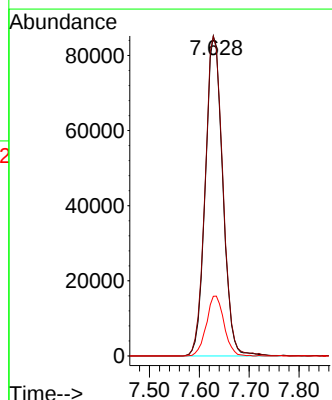
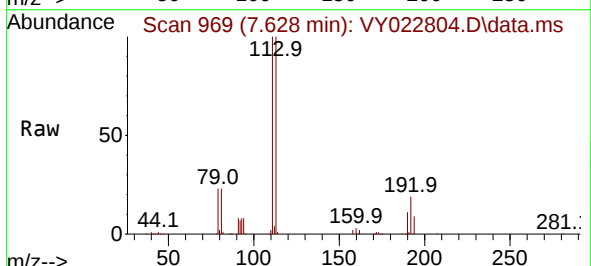
Tgt Ion:113 Resp: 205727

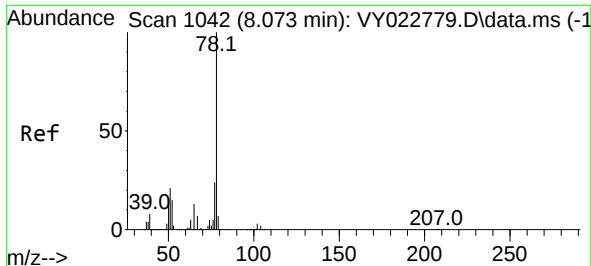
Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

192 19.1 14.2 21.2

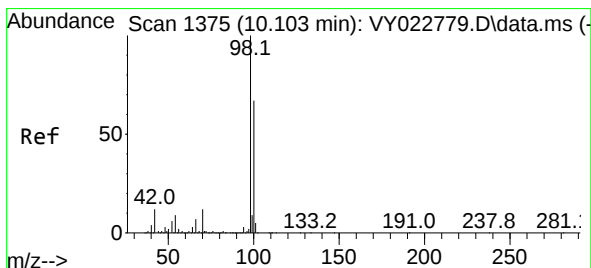
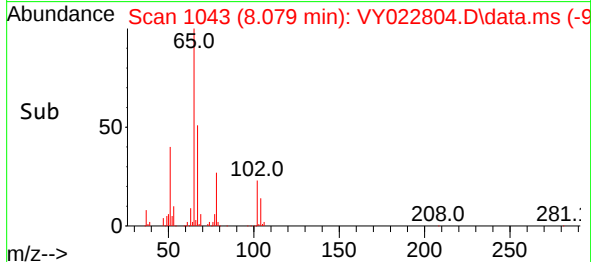
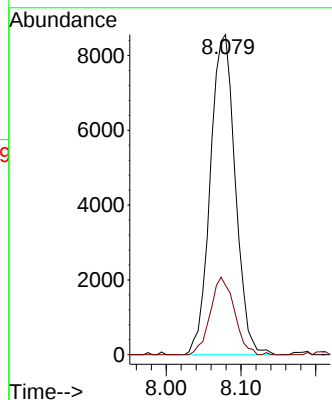
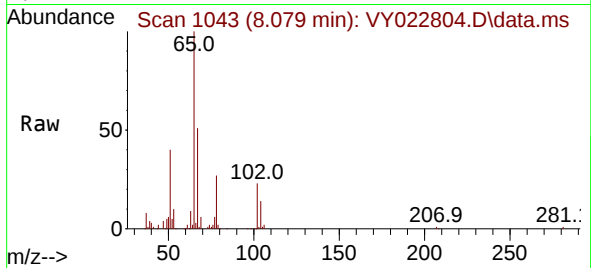




#40
Benzene
Concen: 1.026 ug/l
RT: 8.079 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

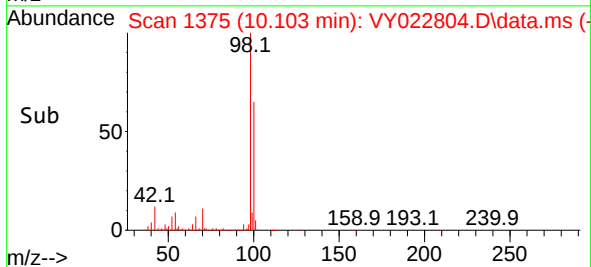
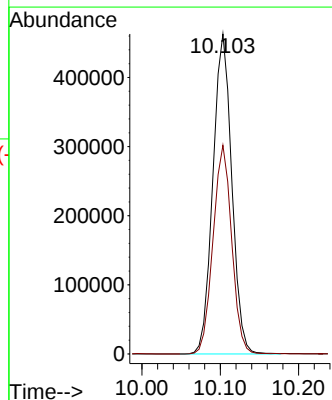
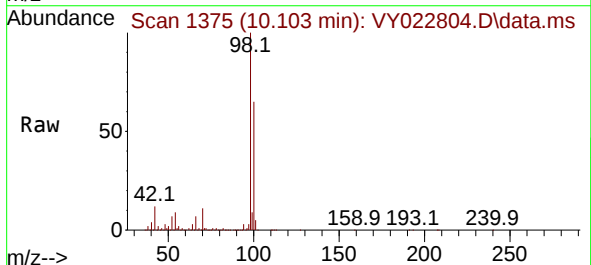
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0093

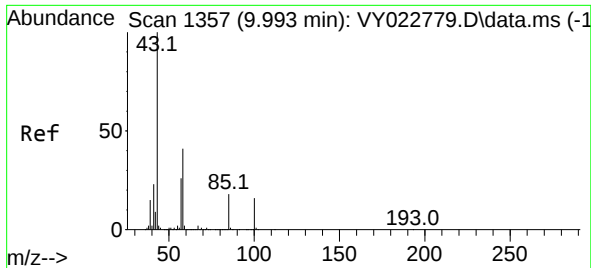
Tgt Ion: 78 Resp: 19890
Ion Ratio Lower Upper
78 100
77 21.7 19.3 28.9



#50
Toluene-d8
Concen: 46.911 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 98 Resp: 774486
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.0

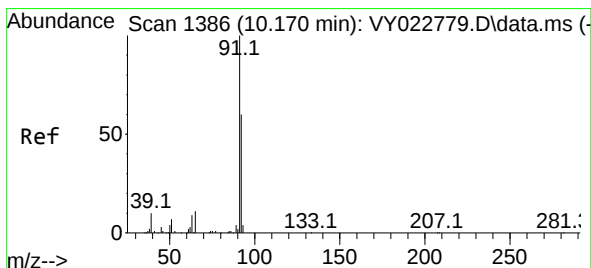
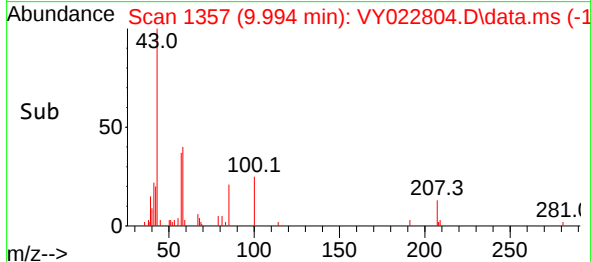
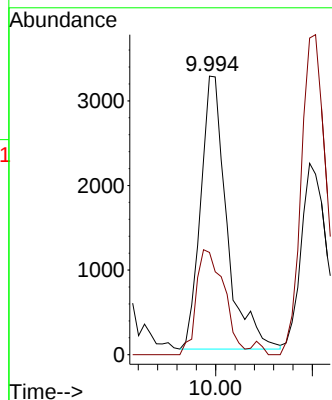
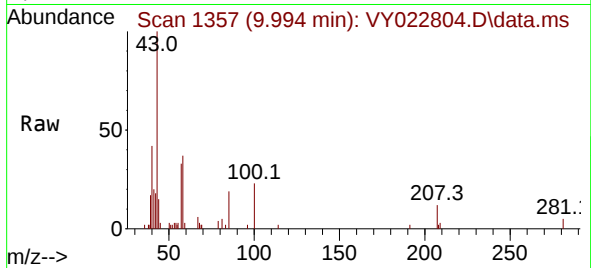




#51
4-Methyl-2-Pentanone
Concen: 2.120 ug/l
RT: 9.994 min Scan# 1357
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

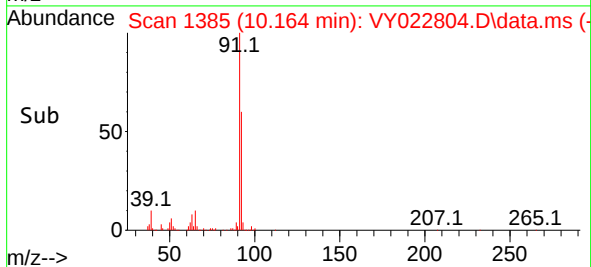
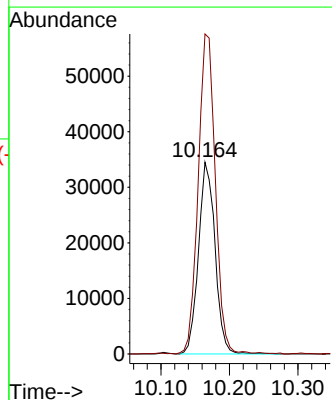
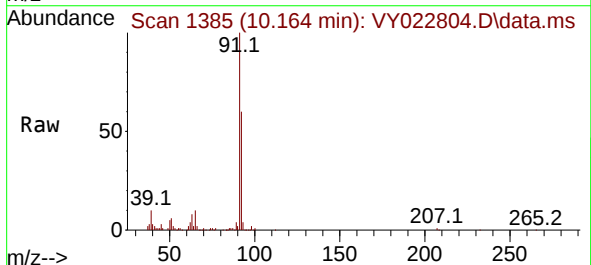
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MSVOA_Y
ClientSampleId :
LAW-25-0093

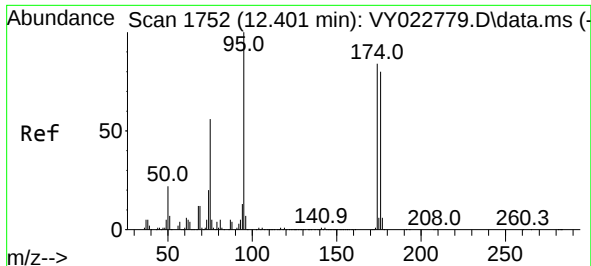
Tgt Ion: 43 Resp: 6094
Ion Ratio Lower Upper
43 100
58 40.7 30.4 45.6



#52
Toluene
Concen: 4.751 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 92 Resp: 58118
Ion Ratio Lower Upper
92 100
91 172.7 139.0 208.4

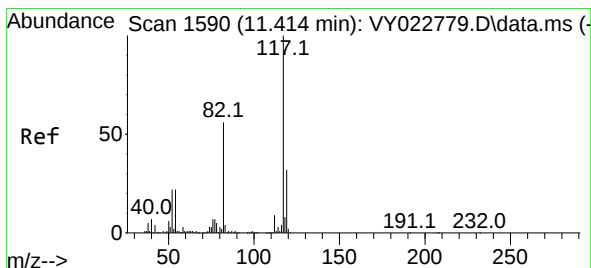
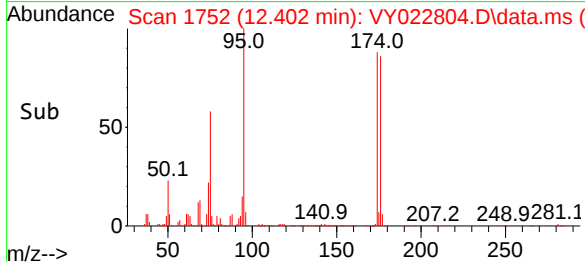
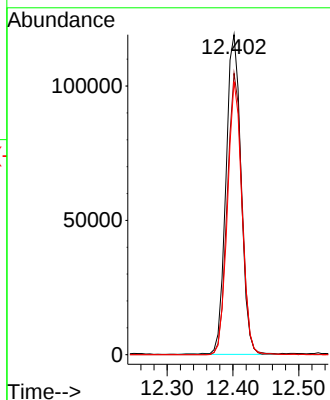
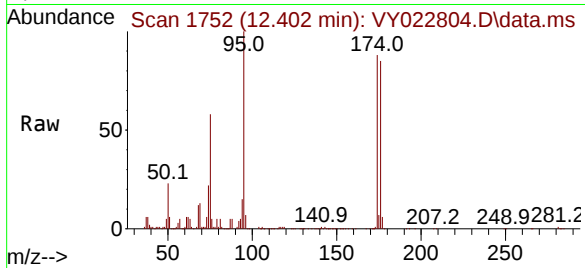




#62
4-Bromofluorobenzene
Concen: 35.856 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

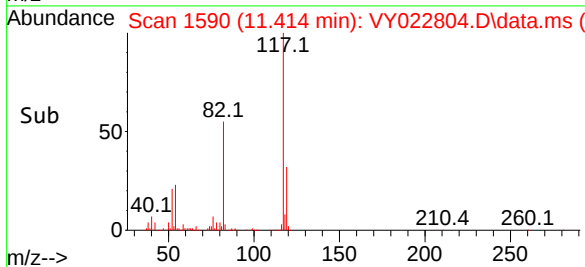
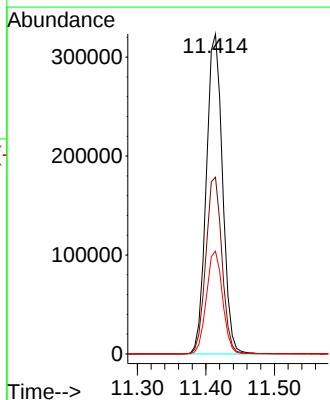
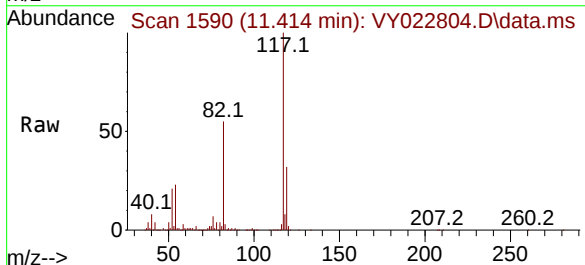
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LAW-25-0093

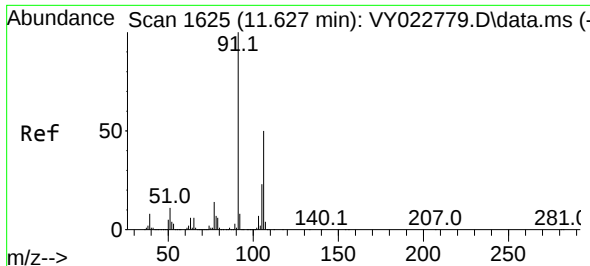
Tgt Ion: 95 Resp: 190302
Ion Ratio Lower Upper
95 100
174 85.7 0.0 170.0
176 82.0 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion: 117 Resp: 533264
Ion Ratio Lower Upper
117 100
82 55.2 44.6 66.8
119 32.1 25.4 38.0

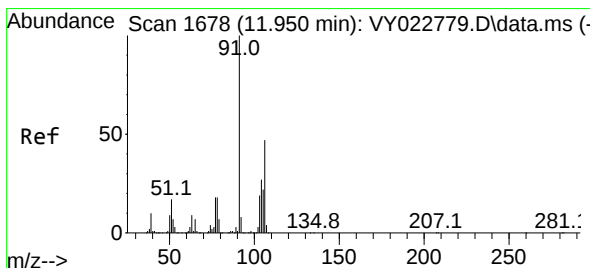
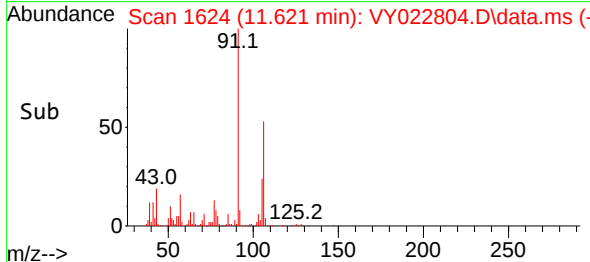
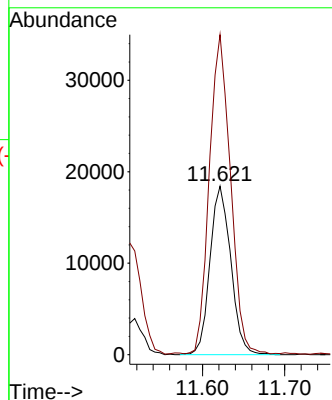
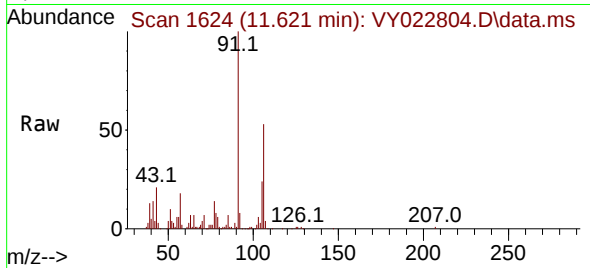




#68
m/p-Xylenes
Concen: 4.076 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

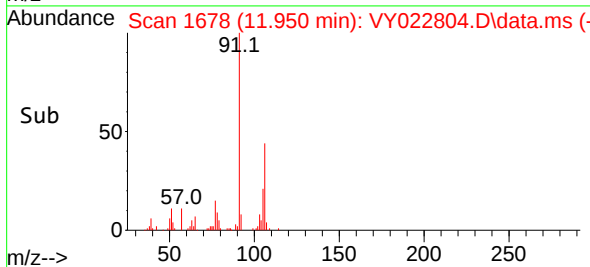
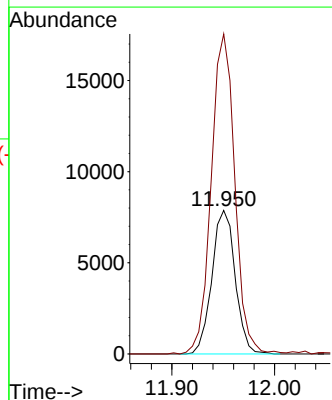
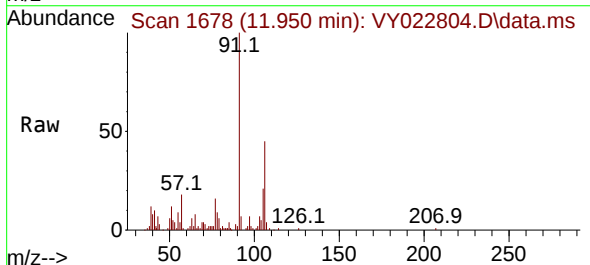
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ClientSampleId :
LAW-25-0093

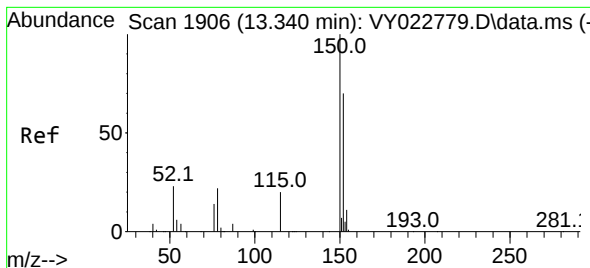
Tgt Ion:106 Resp: 32441
Ion Ratio Lower Upper
106 100
91 192.1 159.4 239.0



#69
o-Xylene
Concen: 1.652 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022804.D
Acq: 24 Jun 2025 17:50

Tgt Ion:106 Resp: 12390
Ion Ratio Lower Upper
106 100
91 225.7 105.8 317.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY022804.D

Acq: 24 Jun 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0093

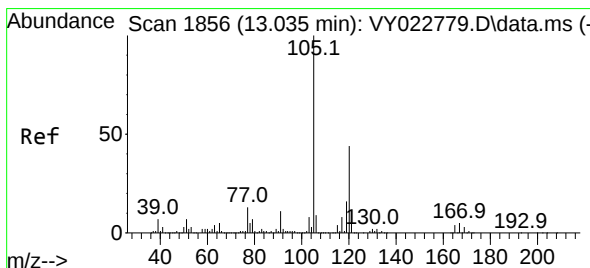
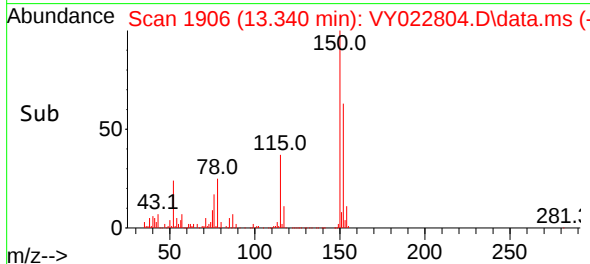
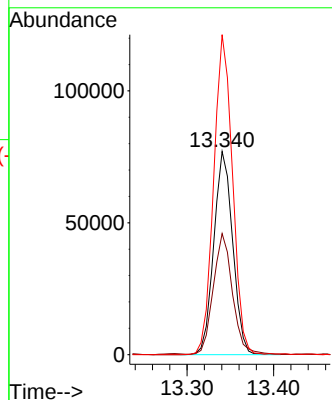
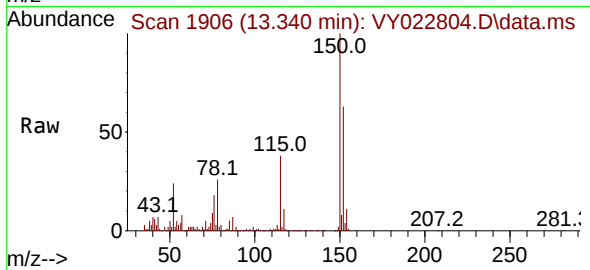
Tgt Ion:152 Resp: 116879

Ion Ratio Lower Upper

152 100

115 60.3 28.9 86.7

150 157.0 0.0 349.6



#84

1,2,4-Trimethylbenzene

Concen: 8.527 ug/l

RT: 13.036 min Scan# 1856

Delta R.T. -0.006 min

Lab File: VY022804.D

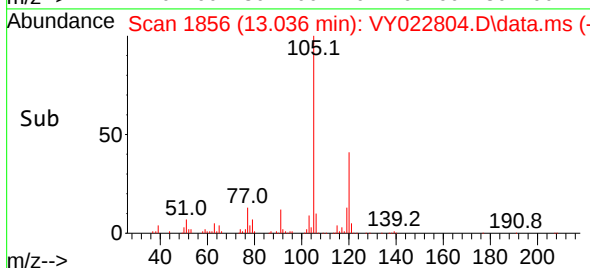
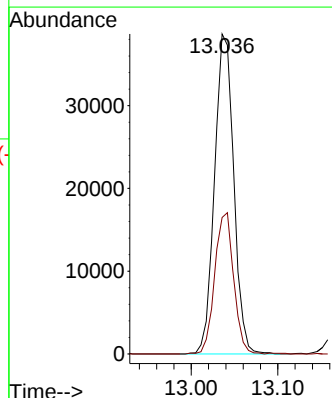
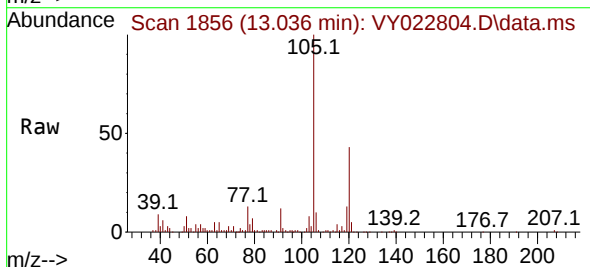
Acq: 24 Jun 2025 17:50

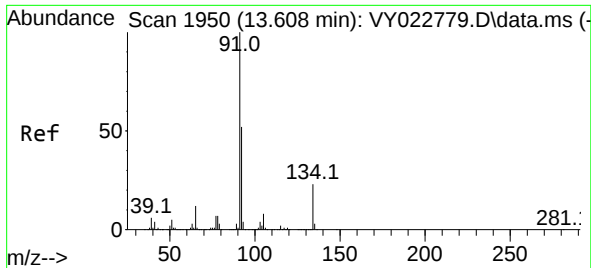
Tgt Ion:105 Resp: 59574

Ion Ratio Lower Upper

105 100

120 43.5 22.7 68.1





#89

n-Butylbenzene

Concen: 2.034 ug/l

RT: 13.609 min Scan# 1950

Delta R.T. -0.012 min

Lab File: VY022804.D

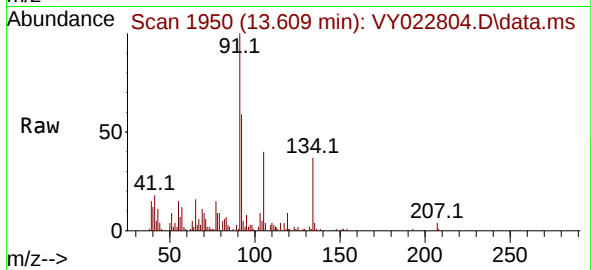
Acq: 24 Jun 2025 17:50

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0093



Tgt Ion: 91 Resp: 14741

Ion Ratio Lower Upper

91 100

92 74.3 25.9 77.8

134 0.0 12.0 36.1#

