

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111125\
 Data File : VY023733.D
 Acq On : 11 Nov 2025 12:30
 Operator : SY/MD
 Sample : Q3593-05
 Misc : 5.61g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 A-LAW-25-0167-0175-COMP

Quant Time: Nov 12 03:34:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

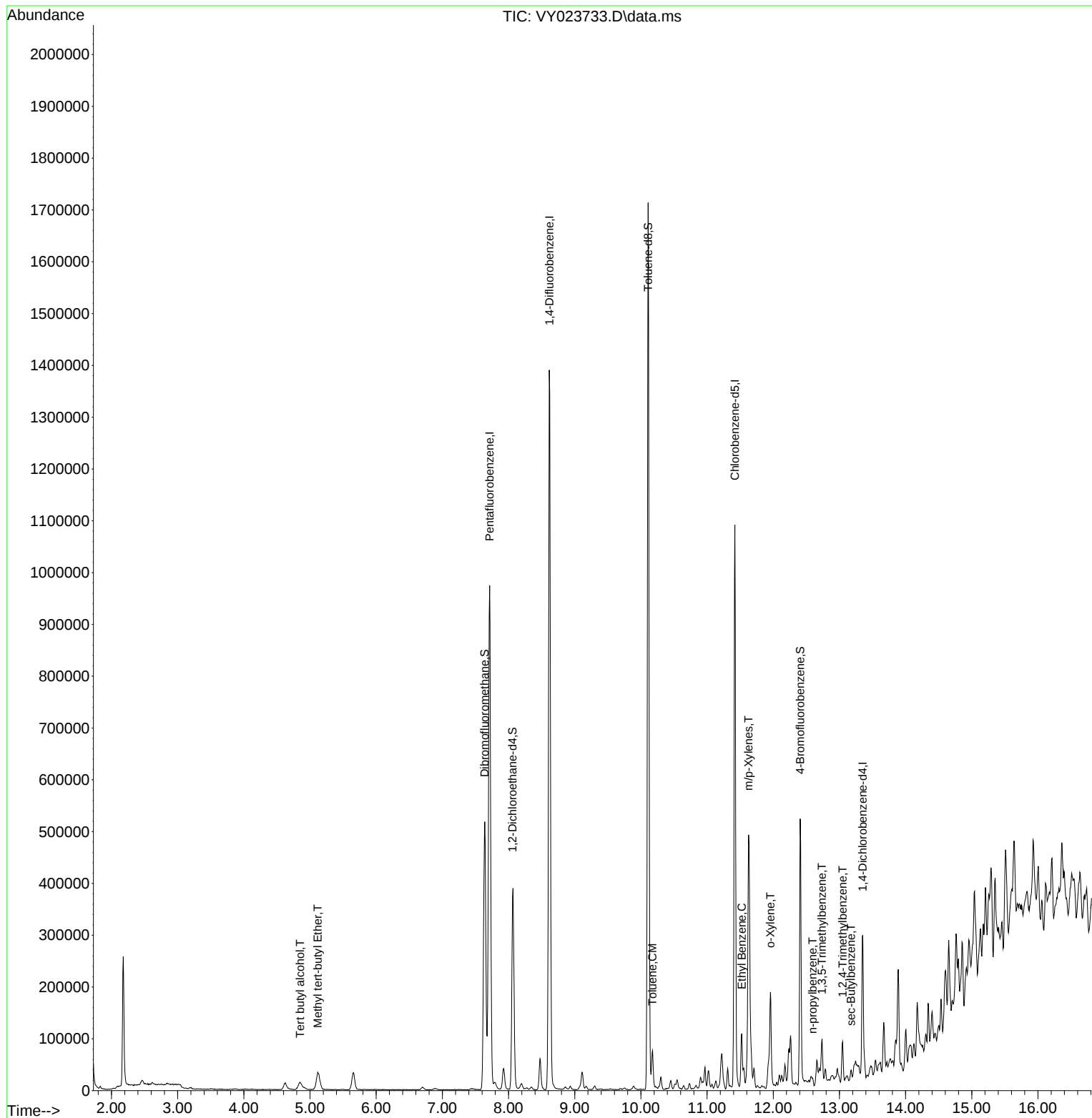
Internal Standards						
1) Pentafluorobenzene	7.713	168	794508	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1241903	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	609136	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	77364	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	302682	45.559	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.120%
35) Dibromofluoromethane	7.640	113	372820	48.857	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.720%
50) Toluene-d8	10.109	98	1112813	39.158	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	78.320%
62) 4-Bromofluorobenzene	12.408	95	151159	16.111	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	32.220%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.848	59	26886	54.396	ug/l #	86
19) Methyl tert-butyl Ether	5.116	73	56047	3.290	ug/l	100
52) Toluene	10.176	92	30816	1.483	ug/l	98
67) Ethyl Benzene	11.524	91	67812	3.162	ug/l	99
68) m/p-Xylenes	11.627	106	145244	16.886	ug/l	100
69) o-Xylene	11.957	106	46144	5.719	ug/l	99
78) n-propylbenzene	12.597	91	10954	1.857	ug/l	100
80) 1,3,5-Trimethylbenzene	12.737	105	13500	3.277	ug/l	99
84) 1,2,4-Trimethylbenzene	13.048	105	40458	9.840	ug/l	98
85) sec-Butylbenzene	13.176	105	9242	1.694	ug/l	87

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

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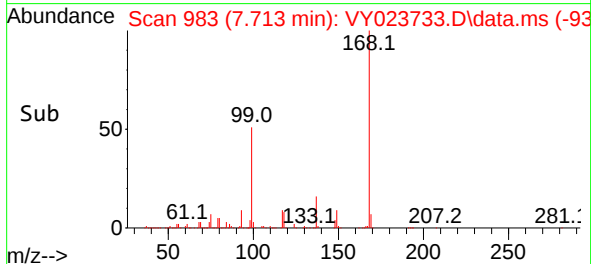
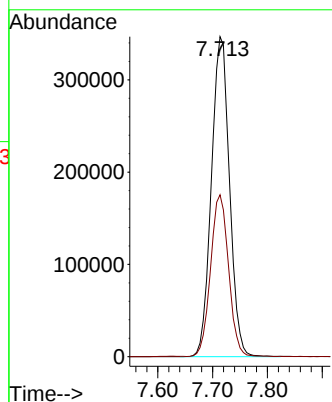
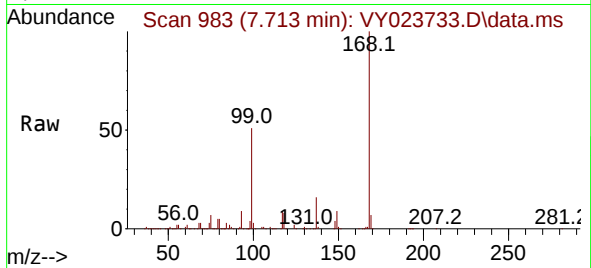




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

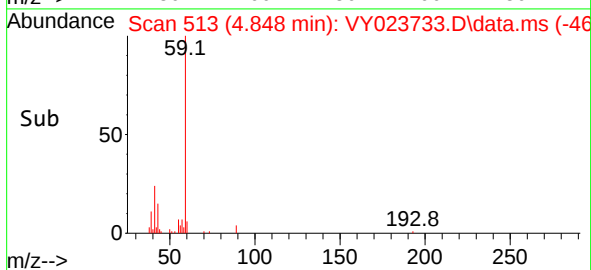
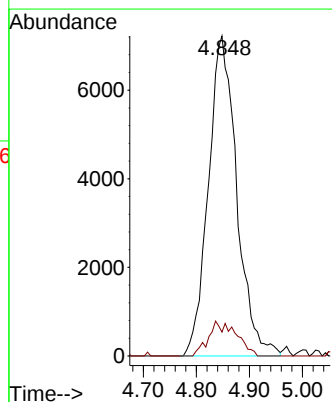
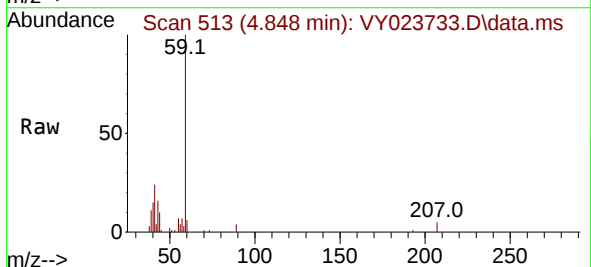
Instrument :
MSVOA_Y
ClientSampleId :
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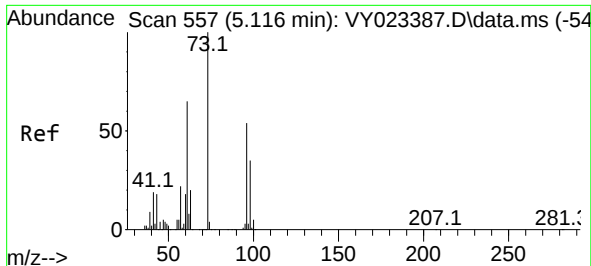
Tgt Ion:168 Resp: 794508
Ion Ratio Lower Upper
168 100
99 50.5 39.7 59.5



#11
Tert butyl alcohol
Concen: 54.396 ug/l
RT: 4.848 min Scan# 513
Delta R.T. -0.012 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

Tgt Ion: 59 Resp: 26886
Ion Ratio Lower Upper
59 100
57 5.2 8.3 12.5#

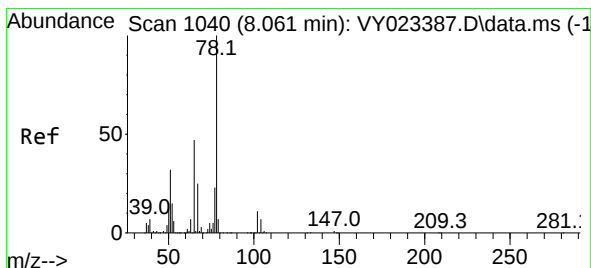
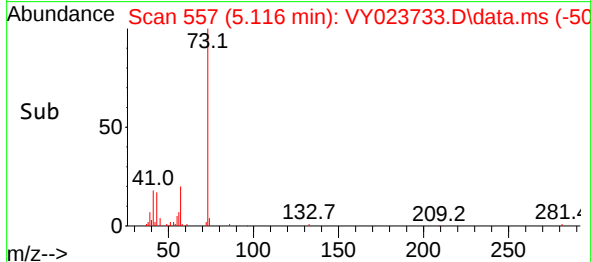
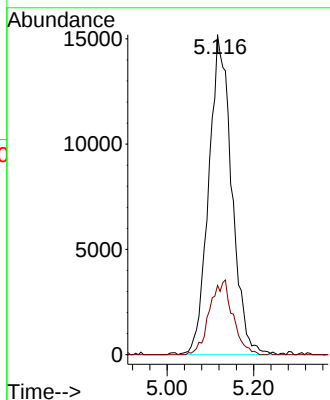
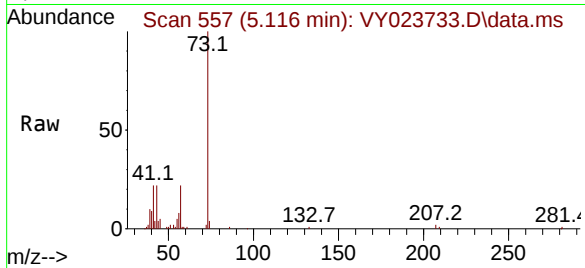




#19
Methyl tert-butyl Ether
Concen: 3.290 ug/l
RT: 5.116 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

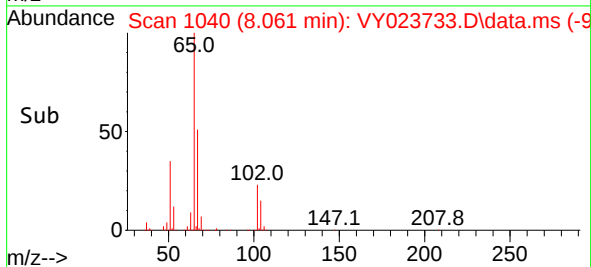
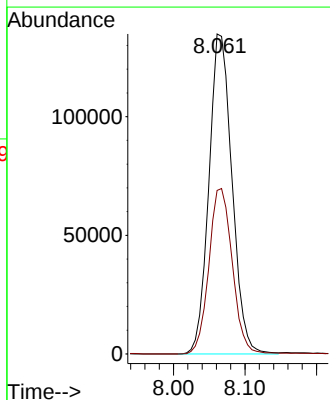
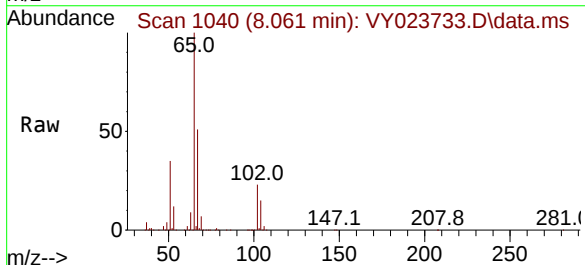
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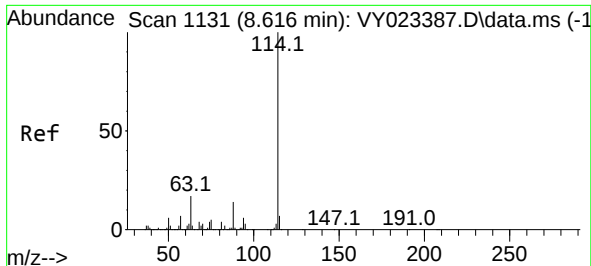
Tgt Ion: 73 Resp: 56047
Ion Ratio Lower Upper
73 100
57 21.6 17.4 26.0



#33
1,2-Dichloroethane-d4
Concen: 45.559 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

Tgt Ion: 65 Resp: 302682
Ion Ratio Lower Upper
65 100
67 52.7 0.0 105.8

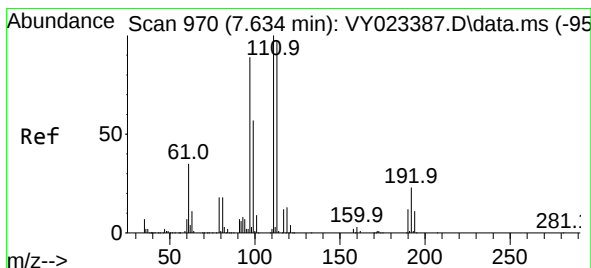
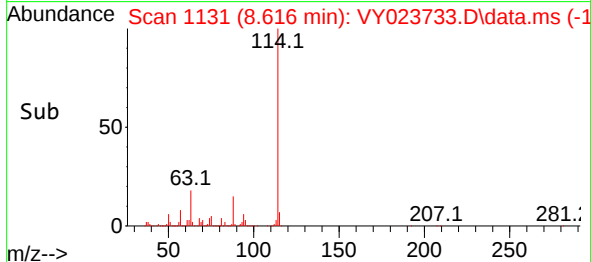
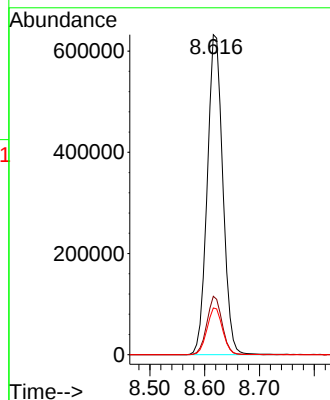
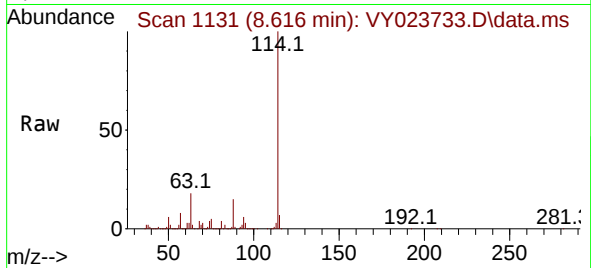




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

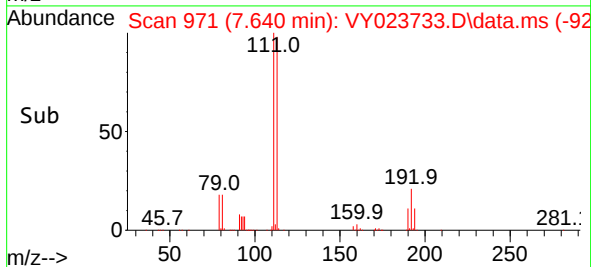
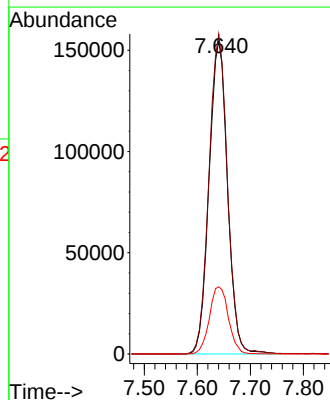
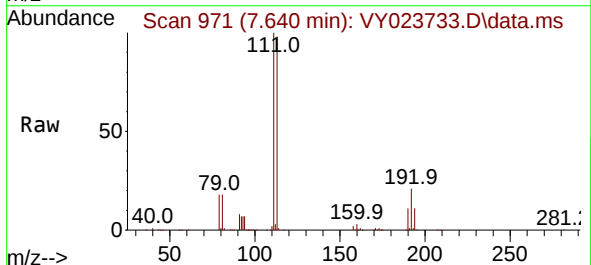
Instrument :
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ClientSampleId :
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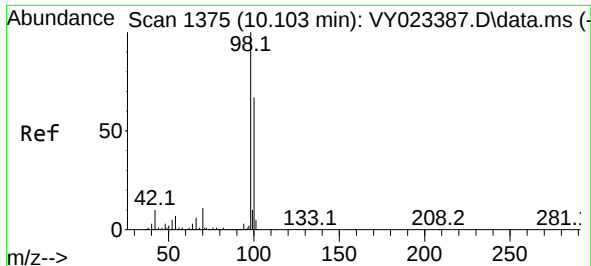
Tgt Ion:114 Resp: 1241903
Ion Ratio Lower Upper
114 100
63 18.2 0.0 34.2
88 14.6 0.0 28.4



#35
Dibromofluoromethane
Concen: 48.857 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

Tgt Ion:113 Resp: 372820
Ion Ratio Lower Upper
113 100
111 103.0 81.8 122.6
192 22.2 18.0 27.0

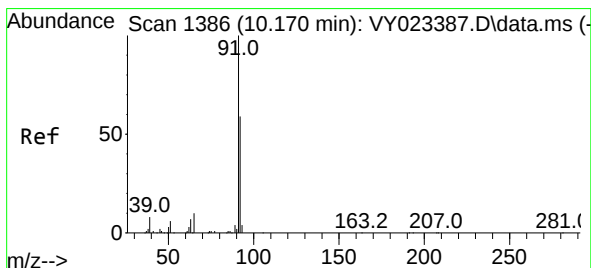
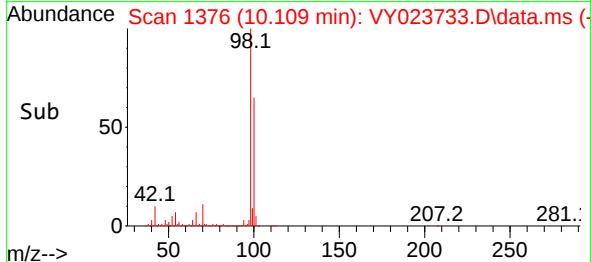
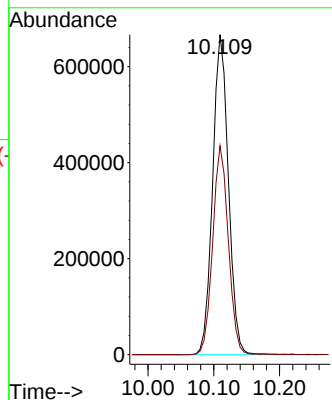
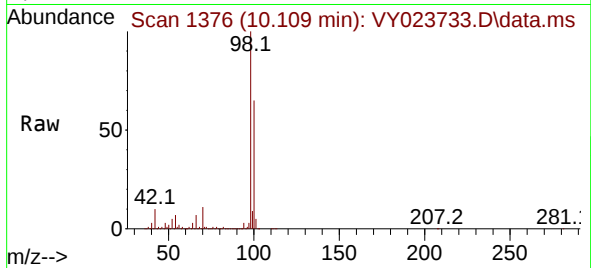




#50
Toluene-d8
Concen: 39.158 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

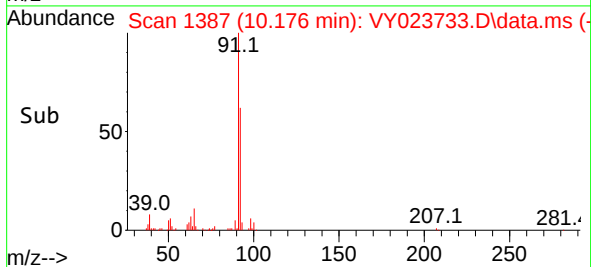
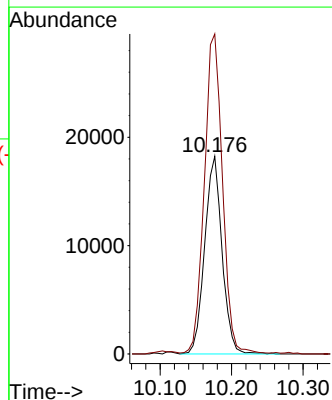
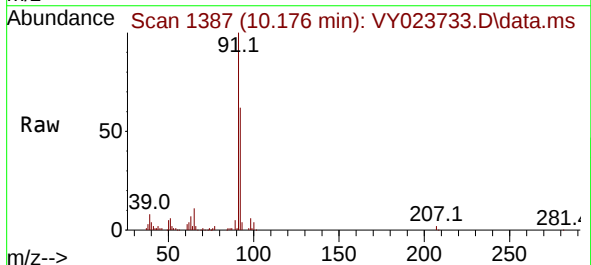
Instrument :
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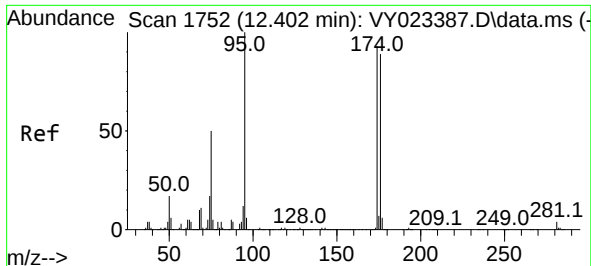
Tgt Ion: 98 Resp: 1112813
Ion Ratio Lower Upper
98 100
100 64.8 53.0 79.4



#52
Toluene
Concen: 1.483 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

Tgt Ion: 92 Resp: 30816
Ion Ratio Lower Upper
92 100
91 167.3 136.4 204.6

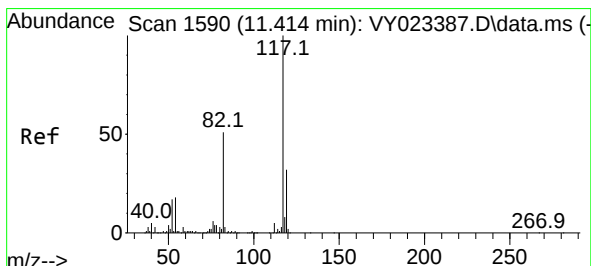
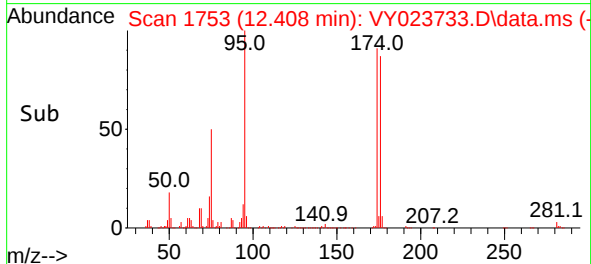
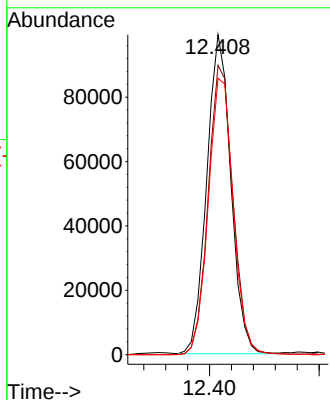
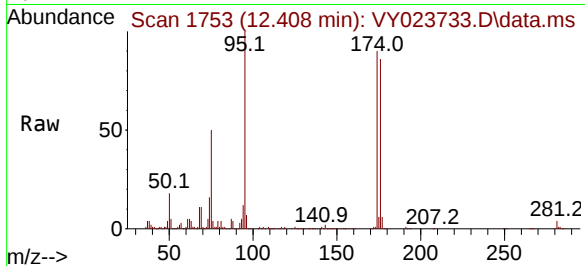




#62
4-Bromofluorobenzene
Concen: 16.111 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

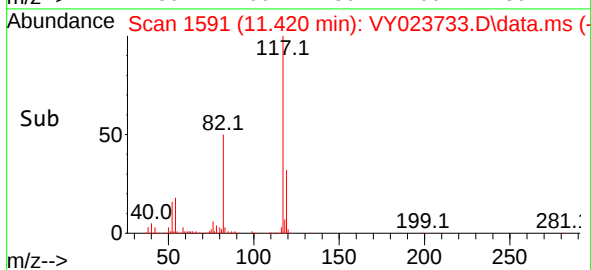
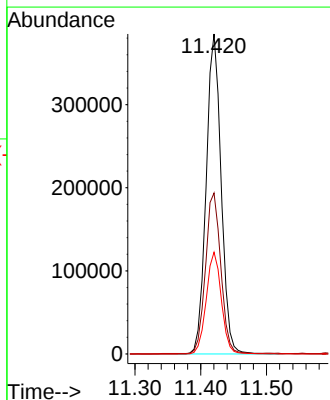
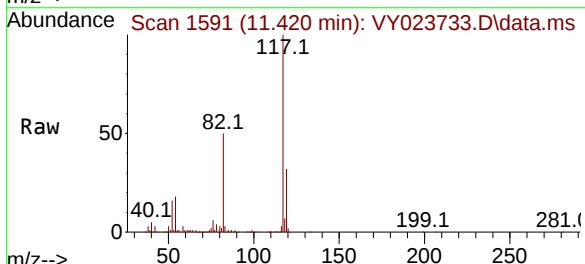
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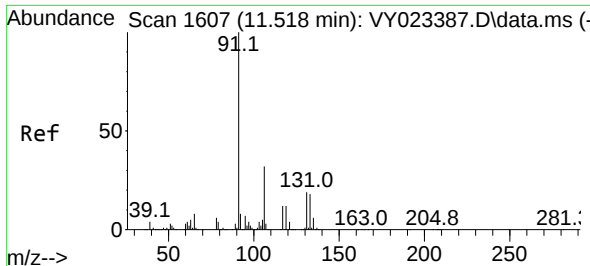
Tgt Ion: 95 Resp: 151159
Ion Ratio Lower Upper
95 100
174 93.5 0.0 192.8
176 90.3 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

Tgt Ion: 117 Resp: 609136
Ion Ratio Lower Upper
117 100
82 50.2 41.0 61.4
119 31.8 25.6 38.4





#67

Ethyl Benzene

Concen: 3.162 ug/l

RT: 11.524 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023733.D

Acq: 11 Nov 2025 12:30

Instrument :

MSVOA_Y

ClientSampleId :

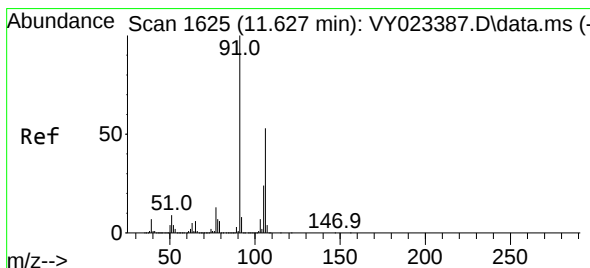
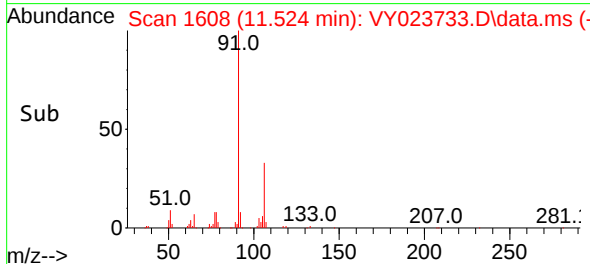
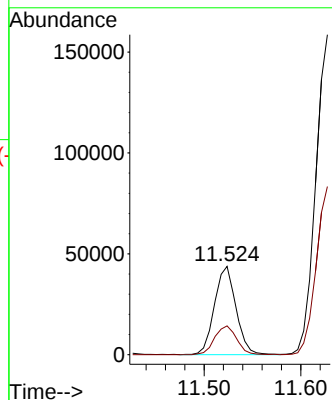
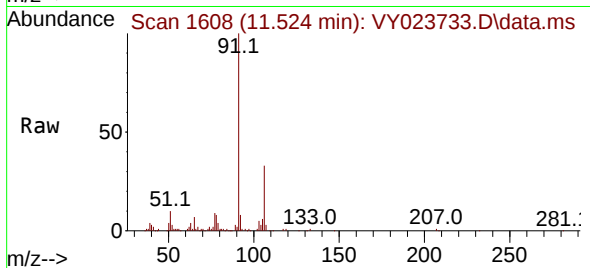
A-LAW-25-0167-0175-COMP

Tgt Ion: 91 Resp: 67812

Ion Ratio Lower Upper

91 100

106 32.7 25.8 38.8



#68

m/p-Xylenes

Concen: 16.886 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY023733.D

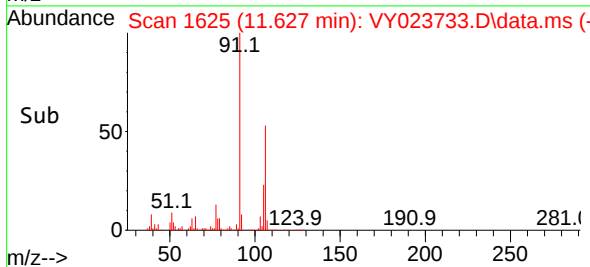
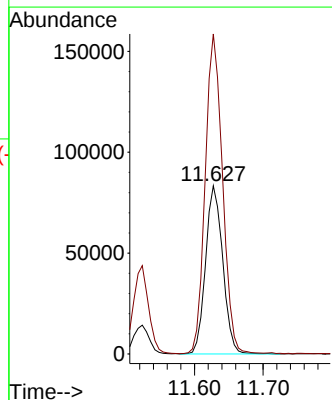
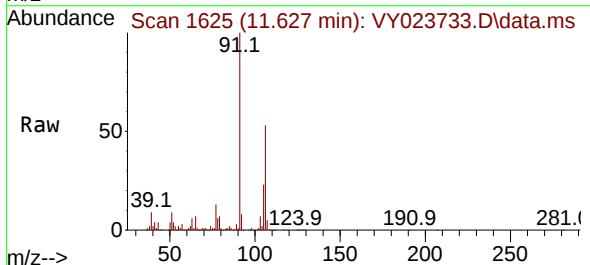
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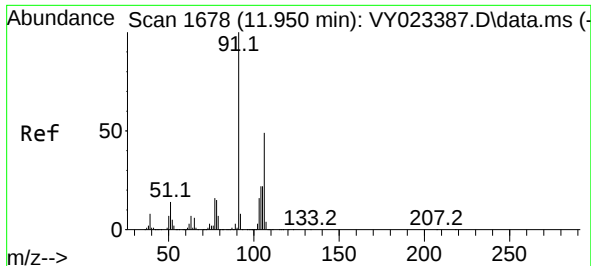
Tgt Ion:106 Resp: 145244

Ion Ratio Lower Upper

106 100

91 191.2 152.6 229.0

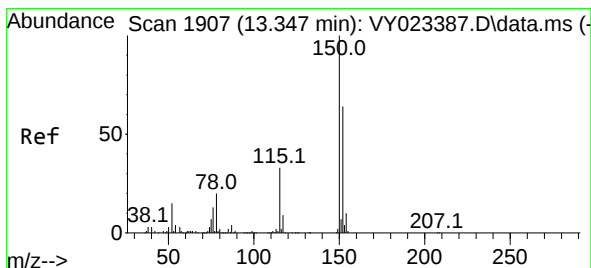
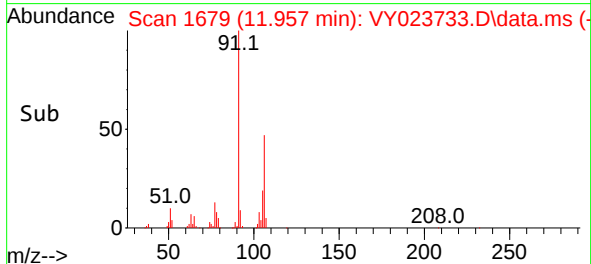
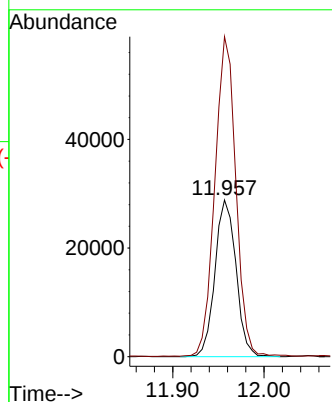
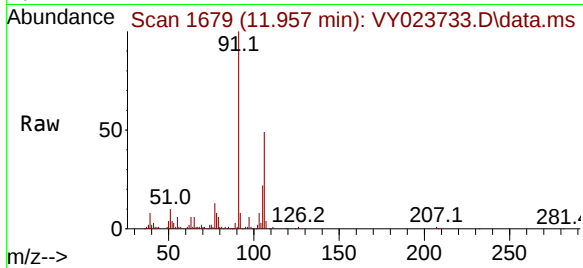




#69
o-Xylene
Concen: 5.719 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

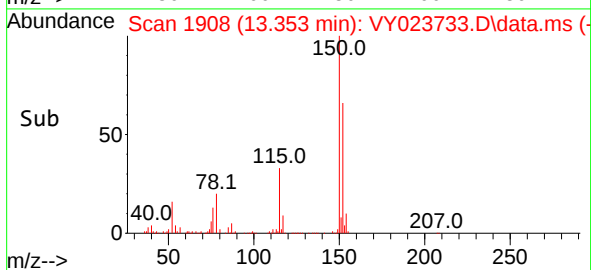
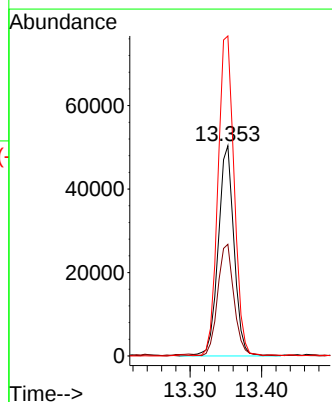
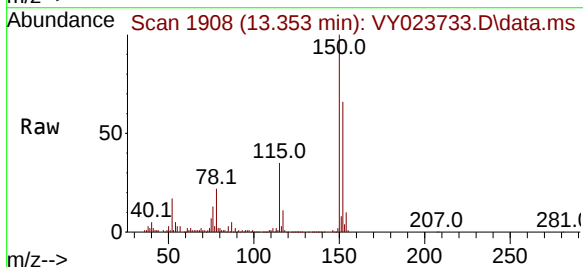
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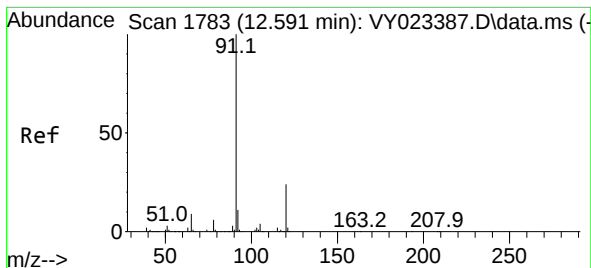
Tgt Ion:106 Resp: 46144
Ion Ratio Lower Upper
106 100
91 203.9 101.4 304.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

Tgt Ion:152 Resp: 77364
Ion Ratio Lower Upper
152 100
115 54.4 27.1 81.2
150 155.3 0.0 347.4





#78

n-propylbenzene

Concen: 1.857 ug/l

RT: 12.597 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023733.D

Acq: 11 Nov 2025 12:30

Instrument :

MSVOA_Y

ClientSampleId :

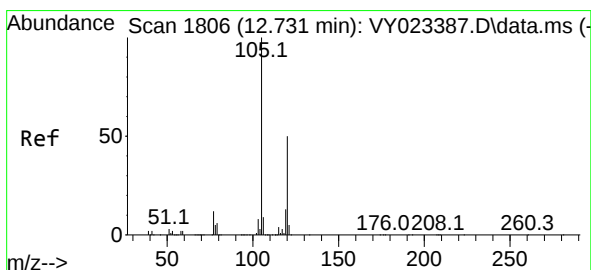
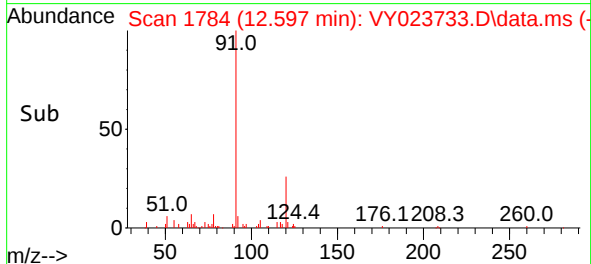
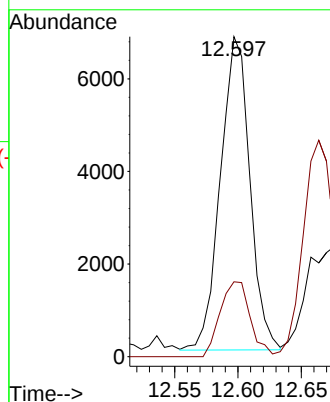
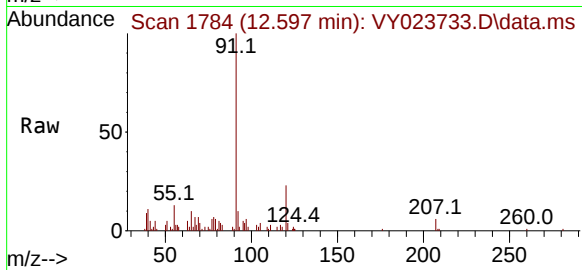
A-LAW-25-0167-0175-COMP

Tgt Ion: 91 Resp: 10954

Ion Ratio Lower Upper

91 100

120 24.3 12.3 36.8



#80

1,3,5-Trimethylbenzene

Concen: 3.277 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.006 min

Lab File: VY023733.D

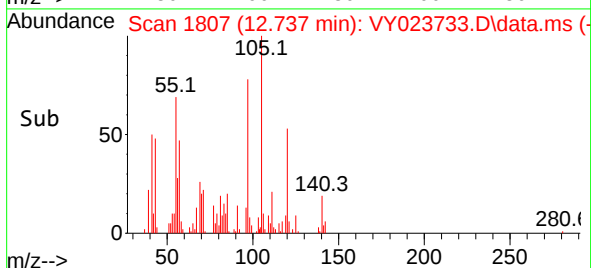
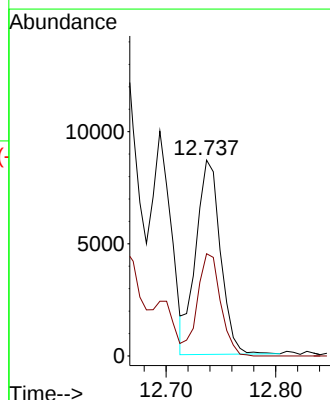
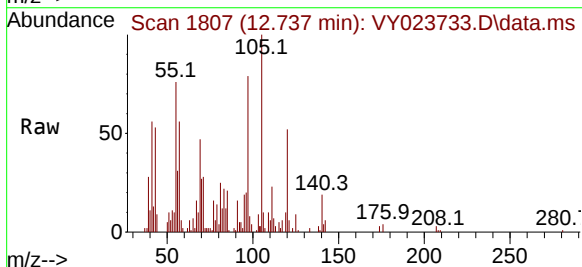
Acq: 11 Nov 2025 12:30

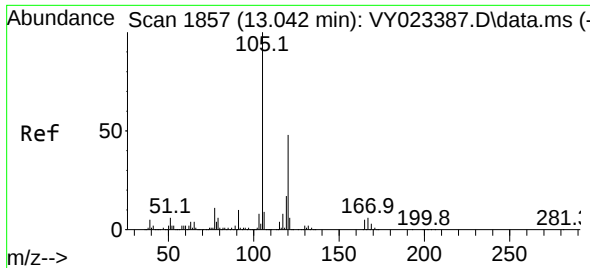
Tgt Ion: 105 Resp: 13500

Ion Ratio Lower Upper

105 100

120 49.9 25.4 76.4

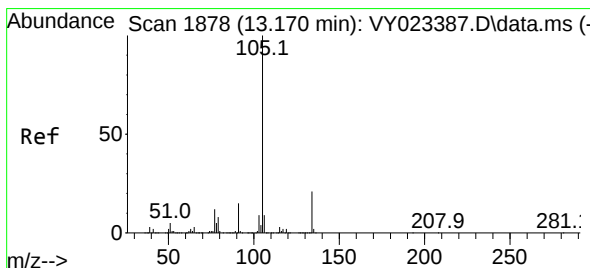
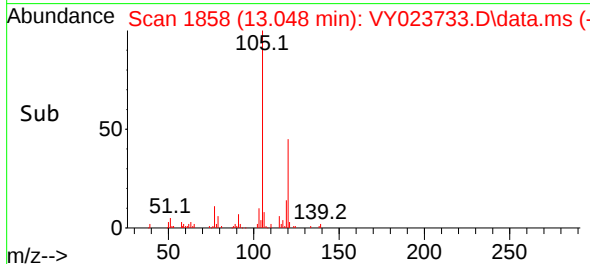
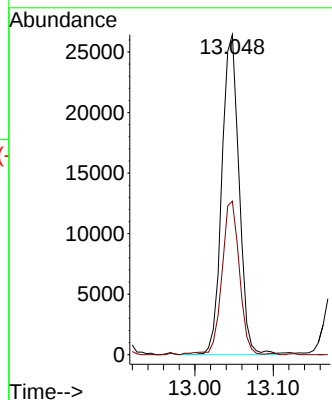
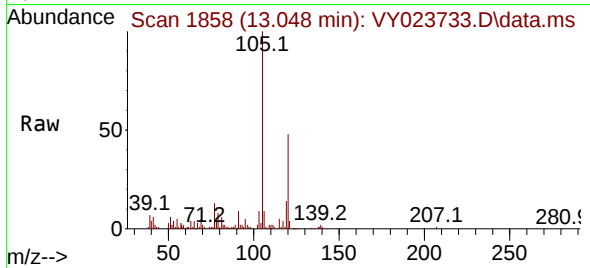




#84
1,2,4-Trimethylbenzene
Concen: 9.840 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

Instrument : MSVOA_Y
ClientSampleId : A-LAW-25-0167-0175-COMP

Tgt Ion:105 Resp: 40458
Ion Ratio Lower Upper
105 100
120 48.7 23.8 71.2



#85
sec-Butylbenzene
Concen: 1.694 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023733.D
Acq: 11 Nov 2025 12:30

Tgt Ion:105 Resp: 9242
Ion Ratio Lower Upper
105 100
134 27.3 10.7 32.1

