

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111125\
 Data File : VY023734.D
 Acq On : 11 Nov 2025 12:53
 Operator : SY/MD
 Sample : Q3593-07
 Misc : 5.68g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Nov 12 03:35:27 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)

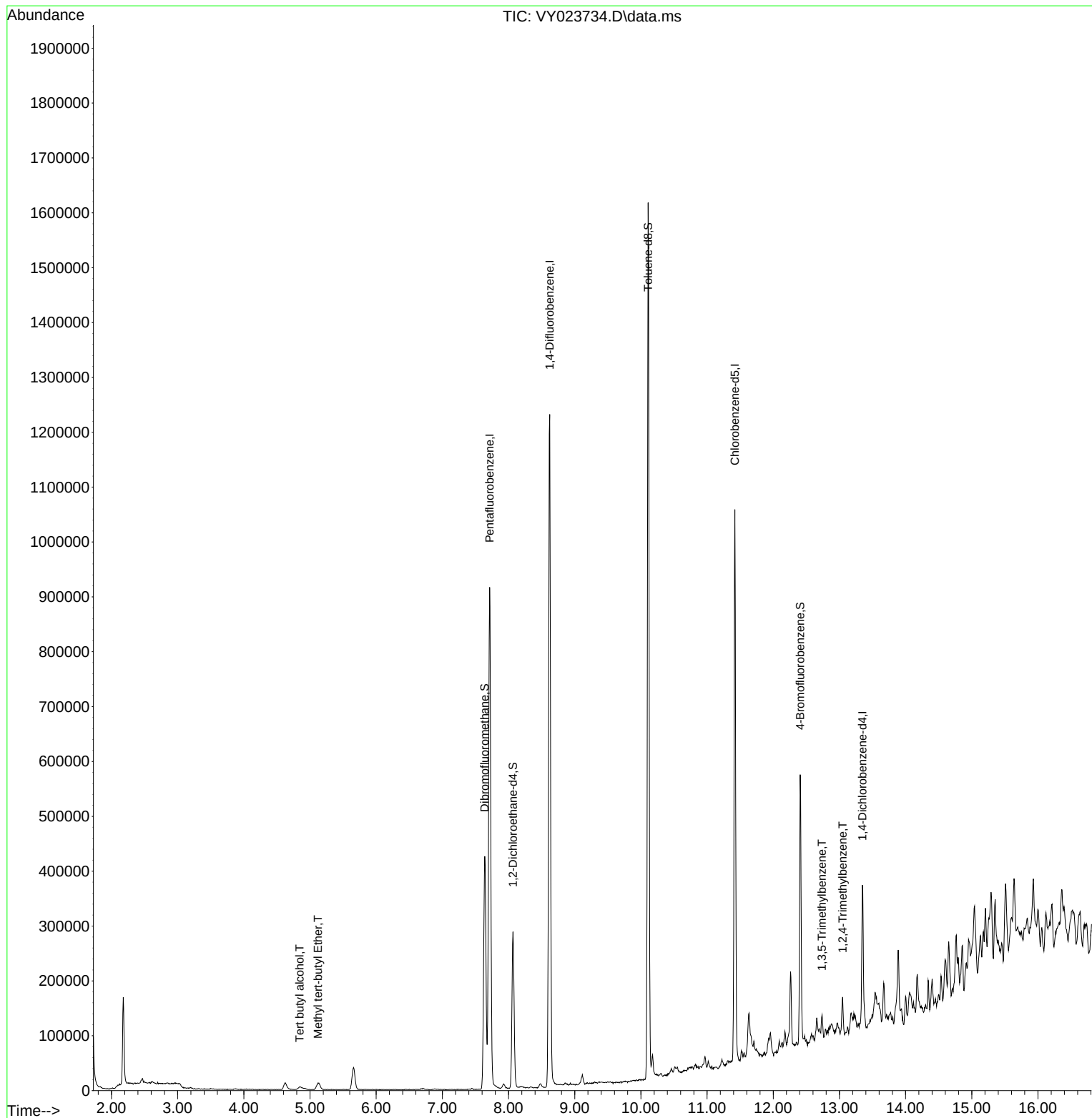
Internal Standards						
1) Pentafluorobenzene	7.713	168	760597	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1123575	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	569760	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	73531	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	223313	35.111	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	70.220%
35) Dibromofluoromethane	7.640	113	313250	45.373	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.740%
50) Toluene-d8	10.109	98	1061208	41.275	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	82.560%
62) 4-Bromofluorobenzene	12.408	95	147621	17.391	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	34.780%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.842	59	9177	19.395	ug/l #	94
19) Methyl tert-butyl Ether	5.122	73	20159	1.236	ug/l	95
80) 1,3,5-Trimethylbenzene	12.737	105	10257	2.619	ug/l	91
84) 1,2,4-Trimethylbenzene	13.048	105	35774	9.154	ug/l	96

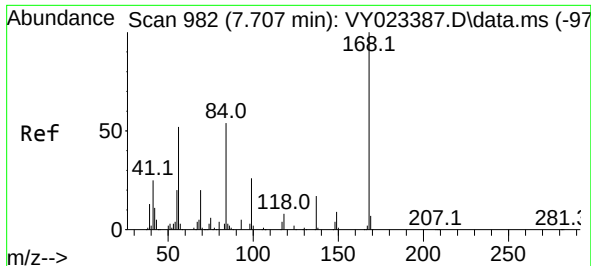
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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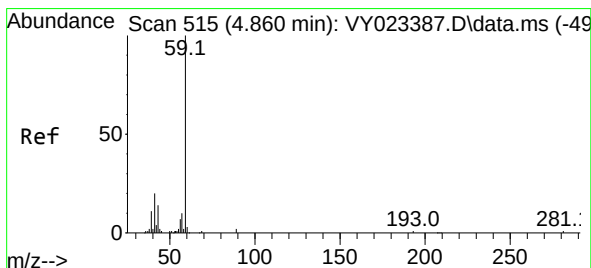
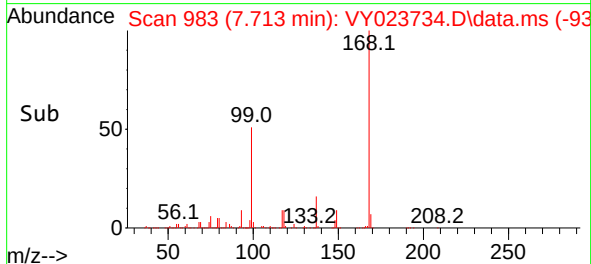
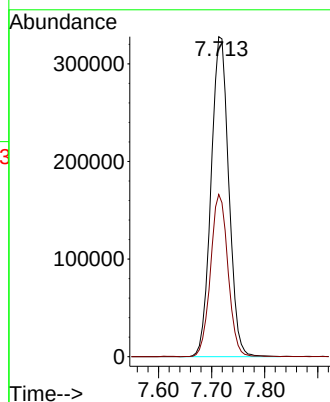
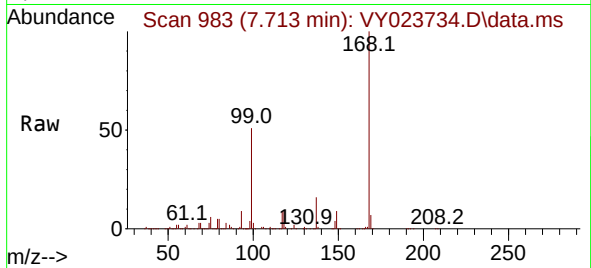




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

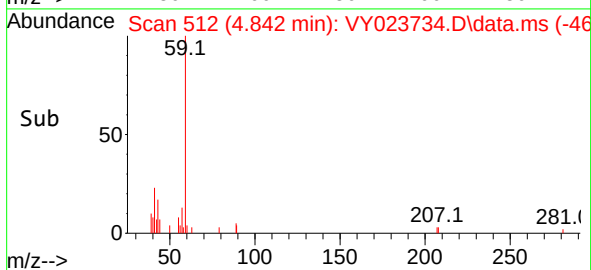
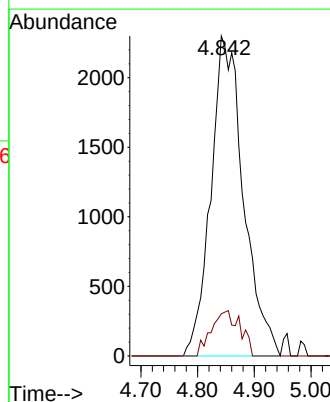
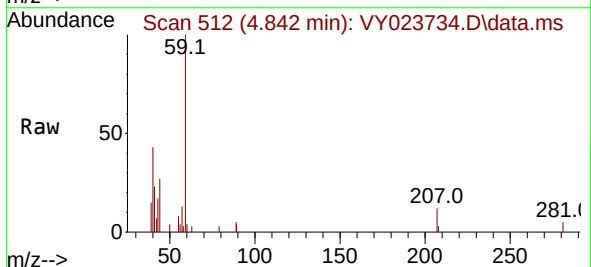
Instrument :
MSVOA_Y
ClientSampleId :
B-LAW-25-0167-0175-COMP

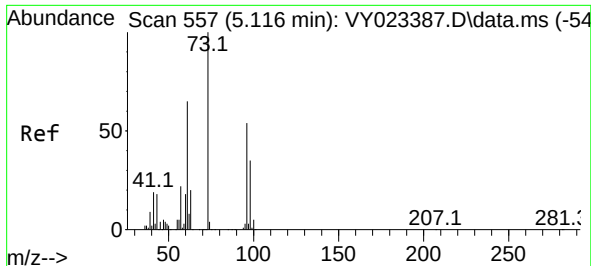
Tgt Ion:168 Resp: 760597
Ion Ratio Lower Upper
168 100
99 50.7 39.7 59.5



#11
Tert butyl alcohol
Concen: 19.395 ug/l
RT: 4.842 min Scan# 512
Delta R.T. -0.018 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 59 Resp: 9177
Ion Ratio Lower Upper
59 100
57 12.5 8.3 12.5#

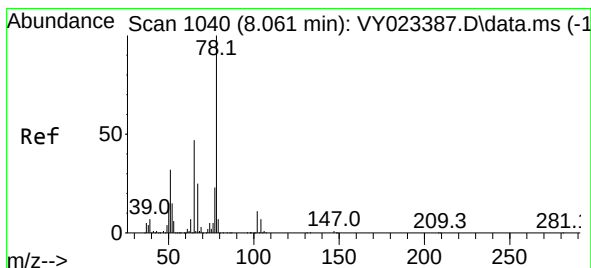
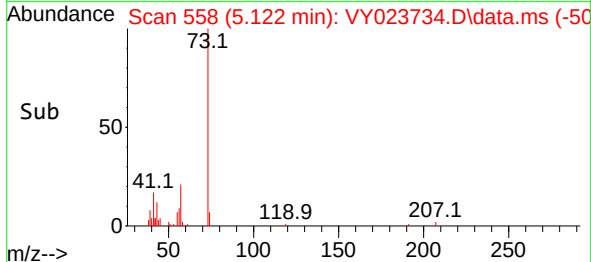
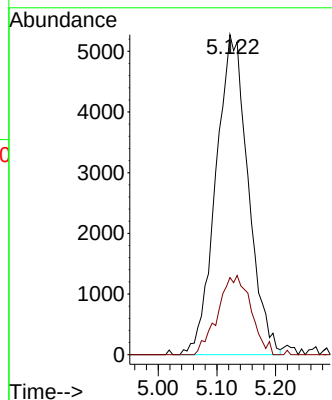
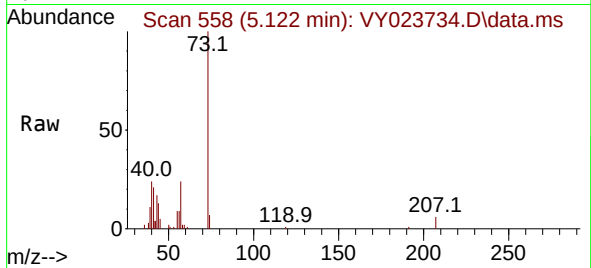




#19
Methyl tert-butyl Ether
Concen: 1.236 ug/l
RT: 5.122 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

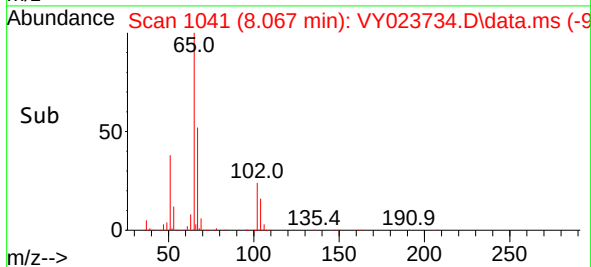
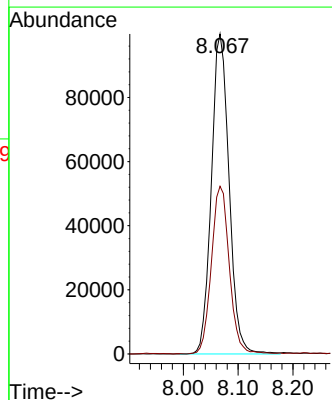
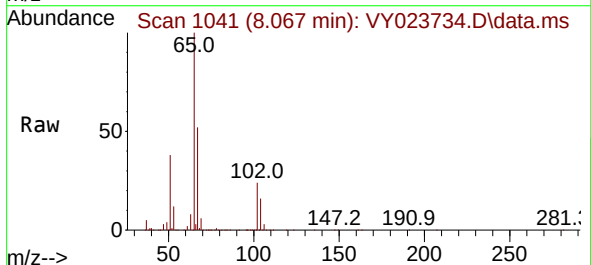
Instrument :
MSVOA_Y
ClientSampleId :
B-LAW-25-0167-0175-COMP

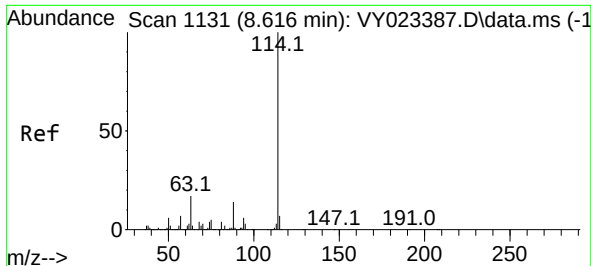
Tgt Ion: 73 Resp: 20159
Ion Ratio Lower Upper
73 100
57 24.1 17.4 26.0



#33
1,2-Dichloroethane-d4
Concen: 35.111 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 65 Resp: 223313
Ion Ratio Lower Upper
65 100
67 53.2 0.0 105.8

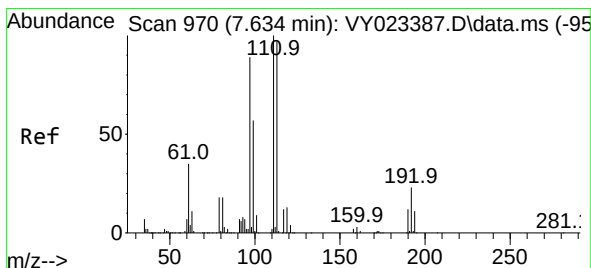
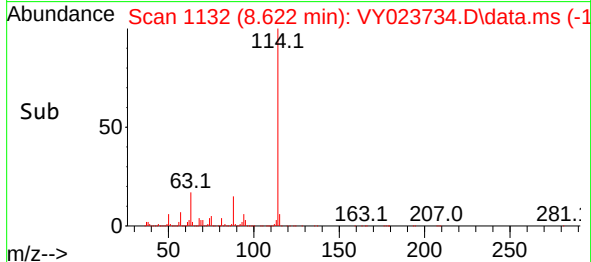
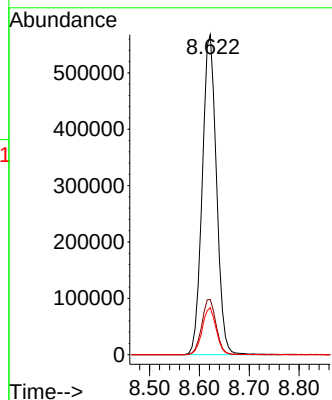
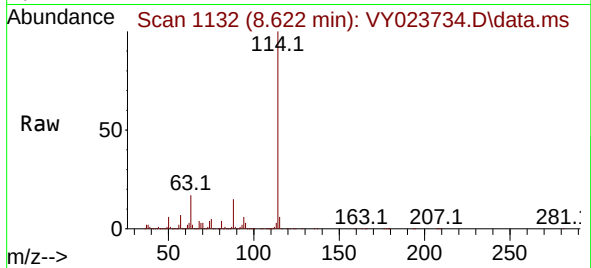




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

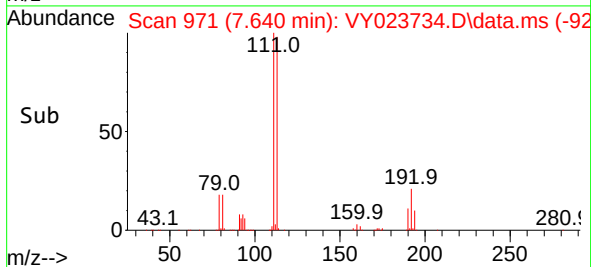
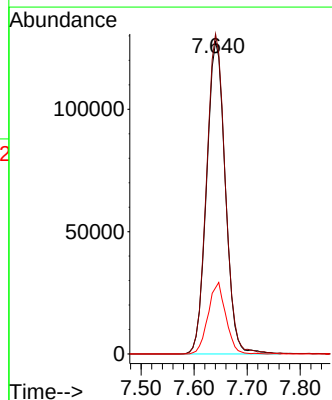
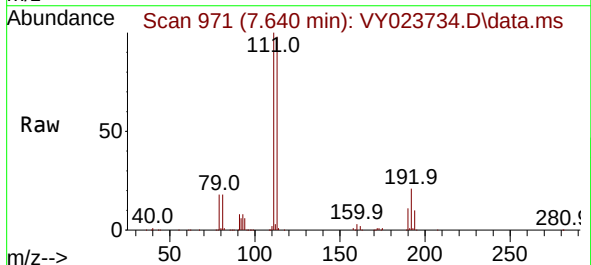
Instrument :
MSVOA_Y
ClientSampleId :
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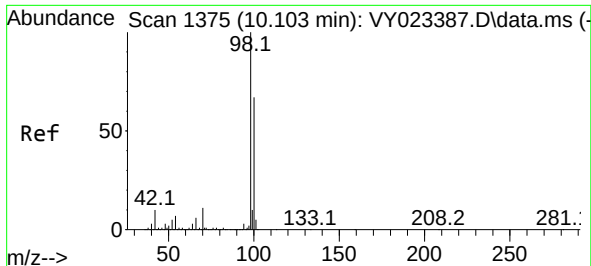
Tgt Ion:114 Resp: 1123575
Ion Ratio Lower Upper
114 100
63 17.2 0.0 34.2
88 14.7 0.0 28.4



#35
Dibromofluoromethane
Concen: 45.373 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion:113 Resp: 313250
Ion Ratio Lower Upper
113 100
111 102.2 81.8 122.6
192 21.6 18.0 27.0

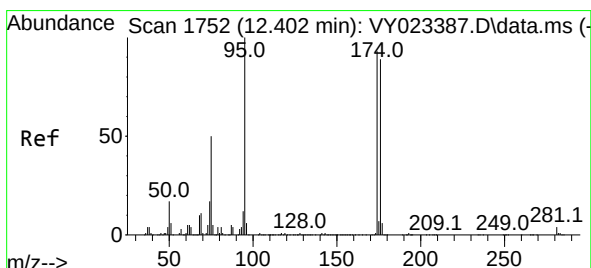
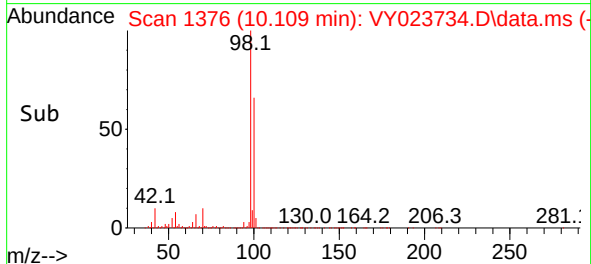
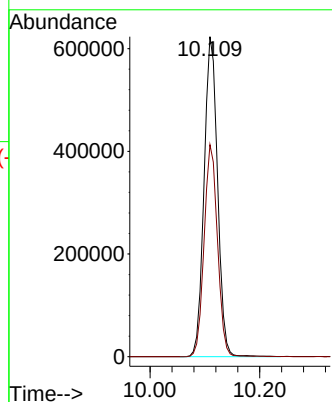
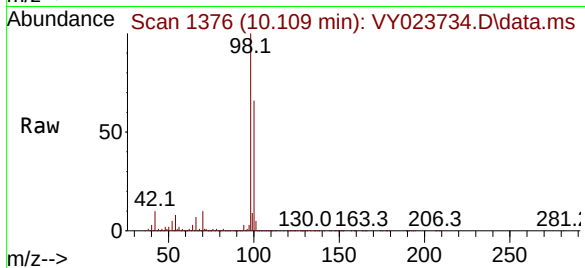




#50
Toluene-d8
Concen: 41.275 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

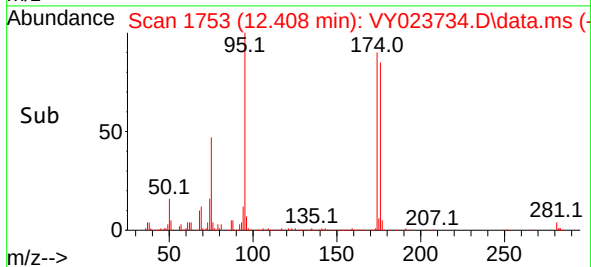
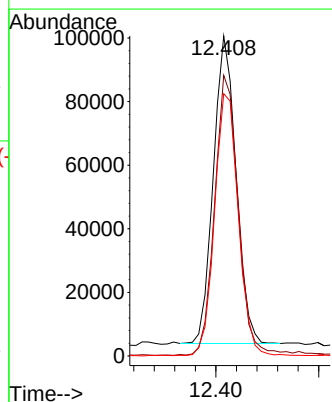
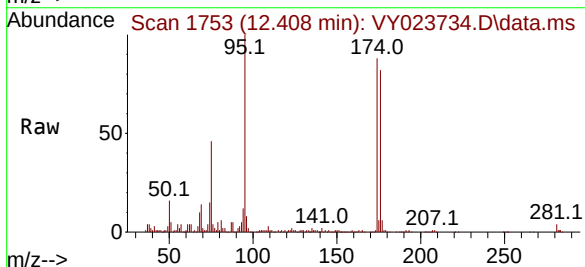
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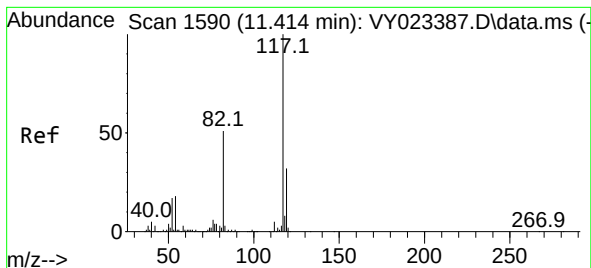
Tgt Ion: 98 Resp: 1061208
Ion Ratio Lower Upper
98 100
100 65.9 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 17.391 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023734.D
Acq: 11 Nov 2025 12:53

Tgt Ion: 95 Resp: 147621
Ion Ratio Lower Upper
95 100
174 96.0 0.0 192.8
176 89.1 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

Instrument :

MSVOA_Y

ClientSampleId :

B-LAW-25-0167-0175-COMP

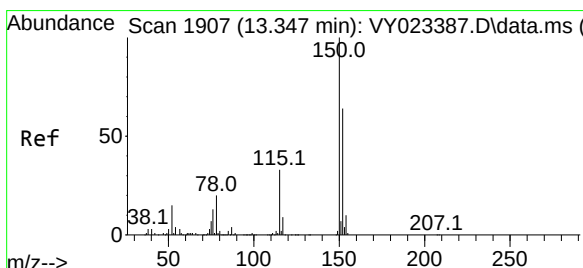
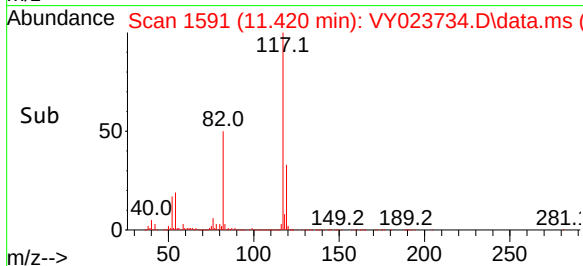
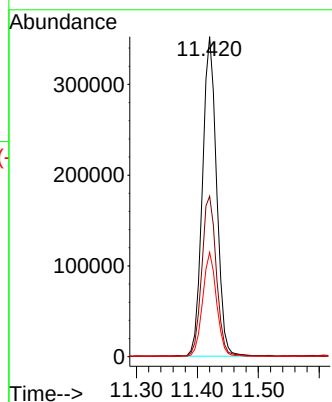
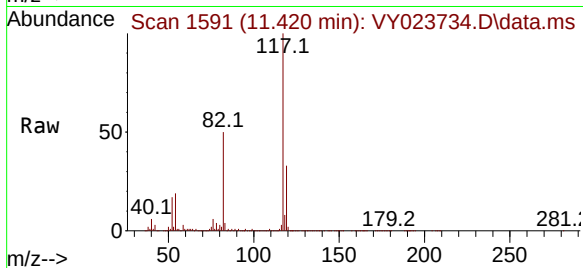
Tgt Ion:117 Resp: 569760

Ion Ratio Lower Upper

117 100

82 50.0 41.0 61.4

119 32.6 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

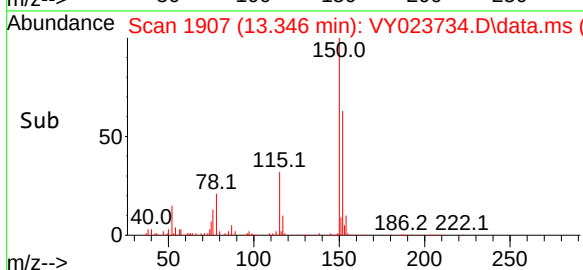
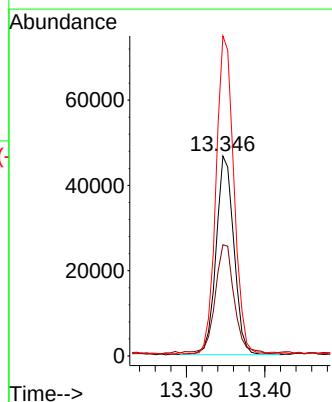
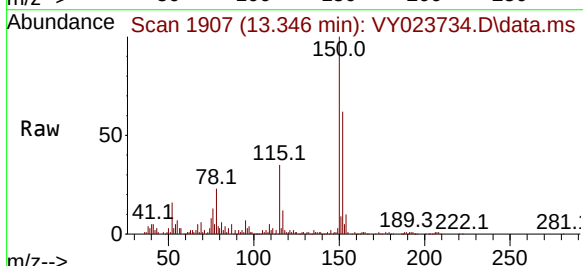
Tgt Ion:152 Resp: 73531

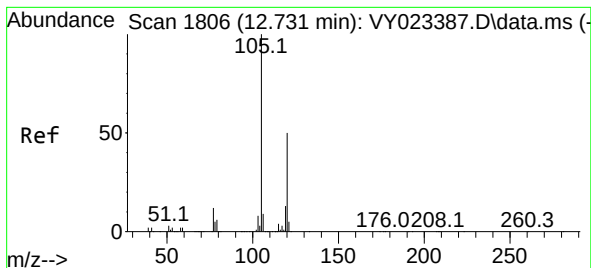
Ion Ratio Lower Upper

152 100

115 58.9 27.1 81.2

150 160.8 0.0 347.4





#80

1,3,5-Trimethylbenzene

Concen: 2.619 ug/l

RT: 12.737 min Scan# 1806

Delta R.T. 0.006 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

Instrument :

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ClientSampleId :

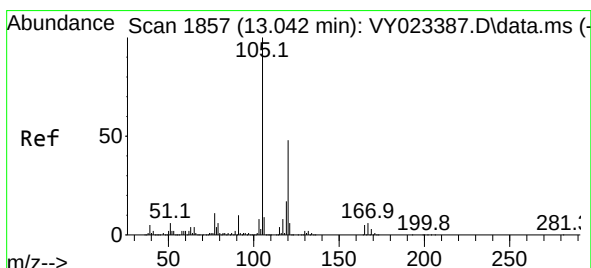
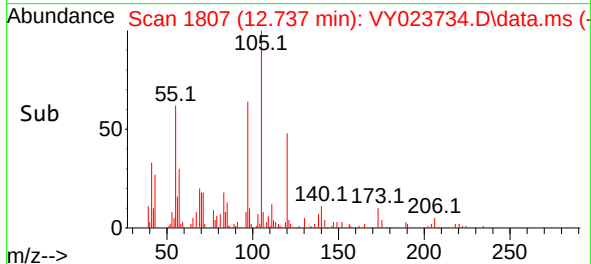
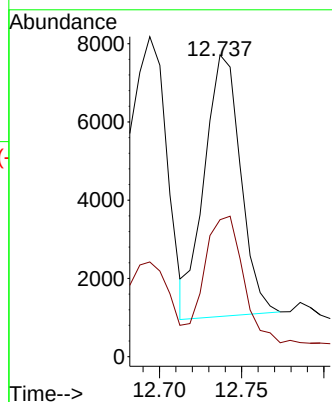
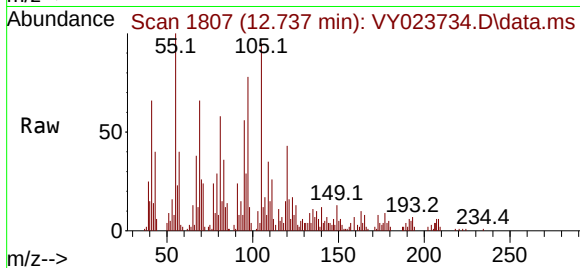
B-LAW-25-0167-0175-COMP

Tgt Ion:105 Resp: 10257

Ion Ratio Lower Upper

105 100

120 57.0 25.4 76.4



#84

1,2,4-Trimethylbenzene

Concen: 9.154 ug/l

RT: 13.048 min Scan# 1858

Delta R.T. 0.006 min

Lab File: VY023734.D

Acq: 11 Nov 2025 12:53

Tgt Ion:105 Resp: 35774

Ion Ratio Lower Upper

105 100

120 44.6 23.8 71.2

