

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111025\
 Data File : VY023719.D
 Acq On : 10 Nov 2025 16:59
 Operator : SY/MD
 Sample : Q3593-09
 Misc : 6.14g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C-LAW-25-0156-0166-COMP

Quant Time: Nov 11 02:09:37 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)

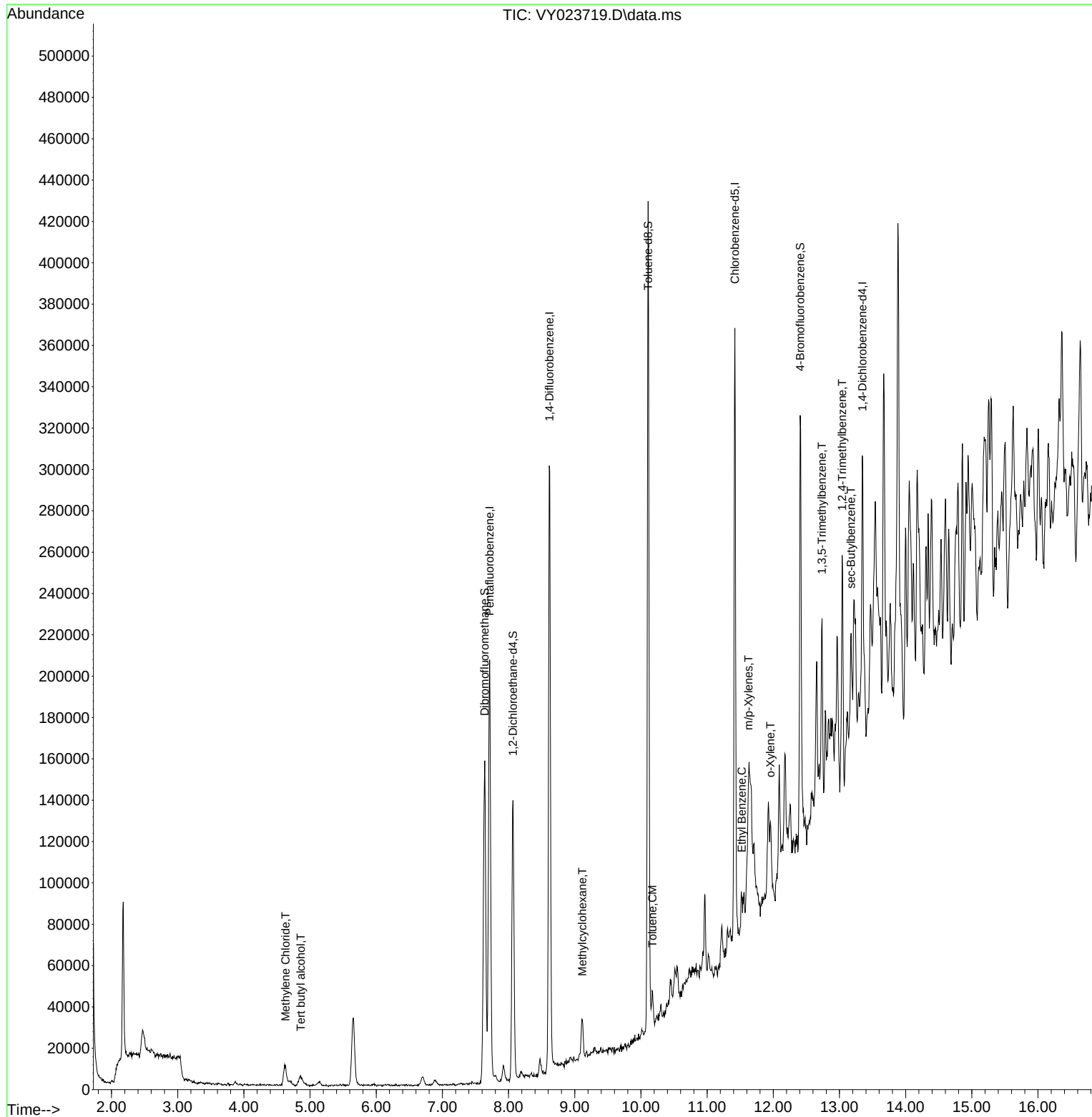
Internal Standards						
1) Pentafluorobenzene	7.713	168	166811	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	267463	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	170858	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	40378	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	107816	77.293	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 154.580%			
35) Dibromofluoromethane	7.640	113	105153	63.984	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 127.960%			
50) Toluene-d8	10.109	98	264788	43.264	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 86.520%			
62) 4-Bromofluorobenzene	12.407	95	57847	28.628	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 57.260%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.860	59	8171	78.740	ug/l #	94
20) Methylene Chloride	4.628	84	7490	4.171	ug/l	98
39) Methylcyclohexane	9.115	83	8984	3.171	ug/l	97
52) Toluene	10.176	92	6467	1.446	ug/l	92
67) Ethyl Benzene	11.523	91	13887	2.309	ug/l	91
68) m/p-Xylenes	11.627	106	15954	6.613	ug/l	94
69) o-Xylene	11.956	106	6543	2.891	ug/l	96
80) 1,3,5-Trimethylbenzene	12.737	105	21108	9.817	ug/l	95
84) 1,2,4-Trimethylbenzene	13.041	105	55100	25.676	ug/l	98
85) sec-Butylbenzene	13.176	105	16252	5.707	ug/l	88

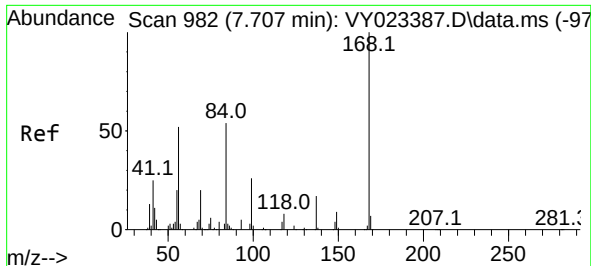
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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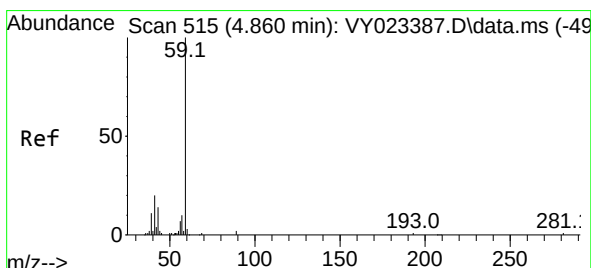
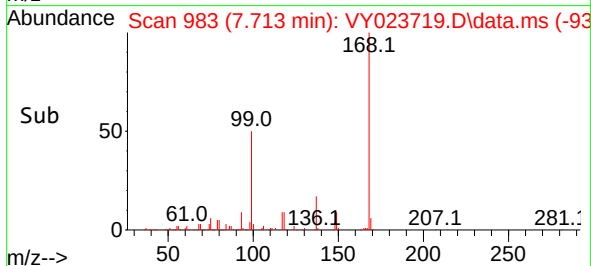
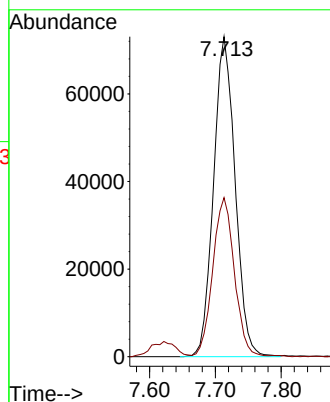
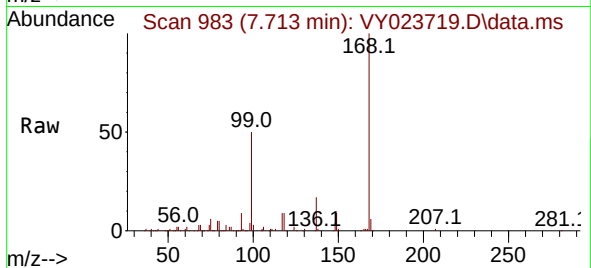




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023719.D
Acq: 10 Nov 2025 16:59

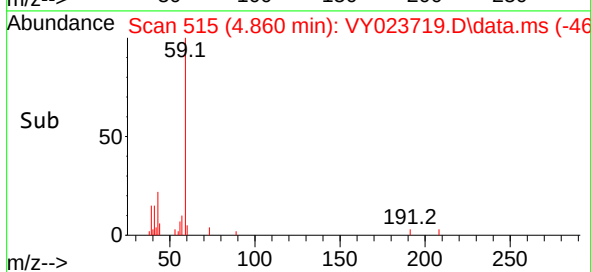
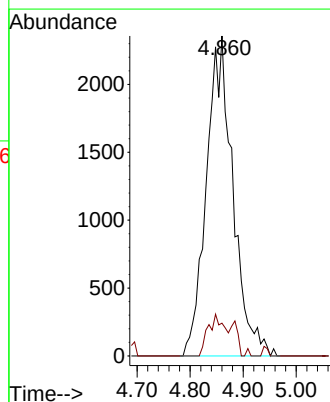
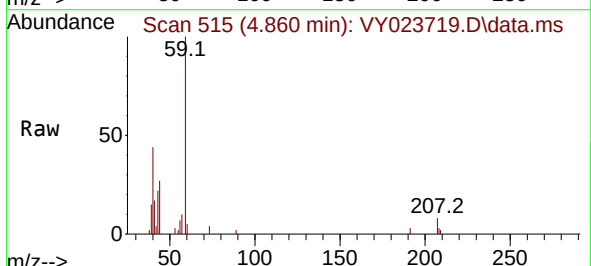
Instrument :
MSVOA_Y
ClientSampleId :
C-LAW-25-0156-0166-COMP

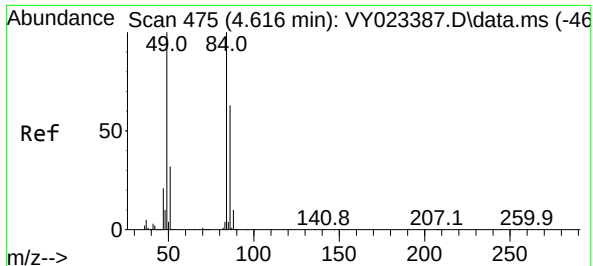
Tgt Ion:168 Resp: 166811
Ion Ratio Lower Upper
168 100
99 49.4 39.7 59.5



#11
Tert butyl alcohol
Concen: 78.740 ug/l
RT: 4.860 min Scan# 515
Delta R.T. -0.000 min
Lab File: VY023719.D
Acq: 10 Nov 2025 16:59

Tgt Ion: 59 Resp: 8171
Ion Ratio Lower Upper
59 100
57 8.2 8.3 12.5#

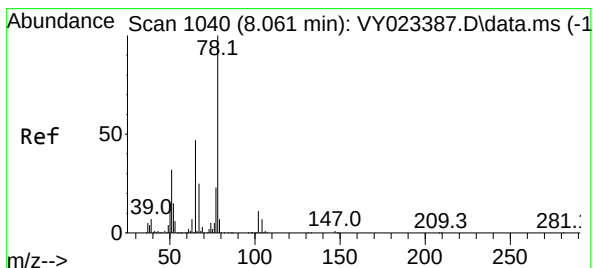
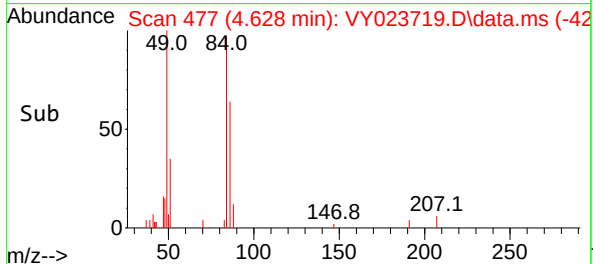
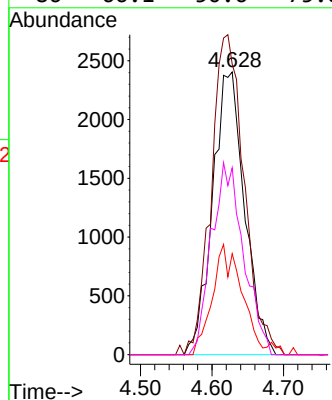
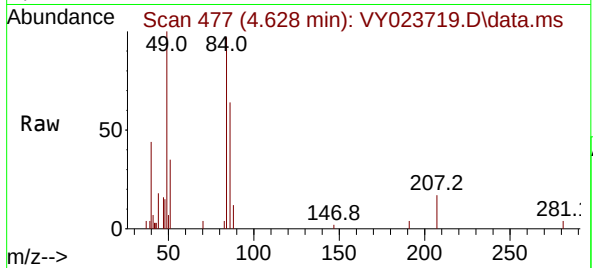




#20
Methylene Chloride
Concen: 4.171 ug/l
RT: 4.628 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY023719.D
Acq: 10 Nov 2025 16:59

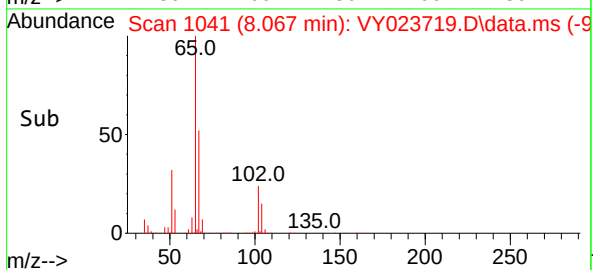
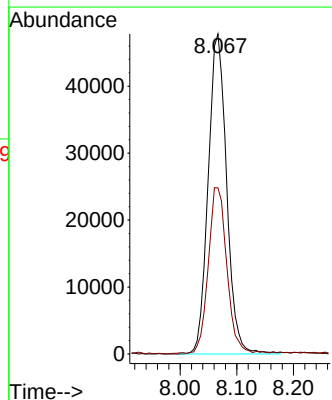
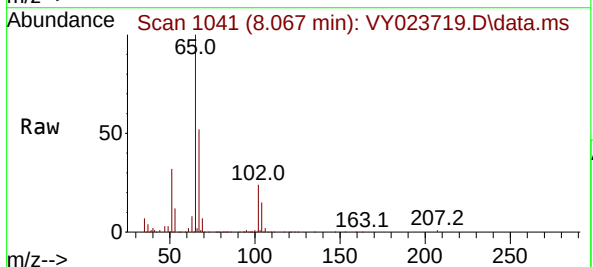
Instrument :
MSVOA_Y
ClientSampleId :
C-LAW-25-0156-0166-COMP

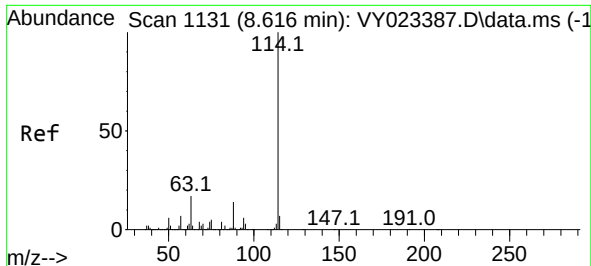
Tgt Ion:	84	Resp:	7490
Ion	Ratio	Lower	Upper
84	100		
49	100.4	80.2	120.4
51	35.7	25.9	38.9
86	66.1	50.6	75.8



#33
1,2-Dichloroethane-d4
Concen: 77.293 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023719.D
Acq: 10 Nov 2025 16:59

Tgt Ion:	65	Resp:	107816
Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023719.D

Acq: 10 Nov 2025 16:59

Instrument :

MSVOA_Y

ClientSampleId :

C-LAW-25-0156-0166-COMP

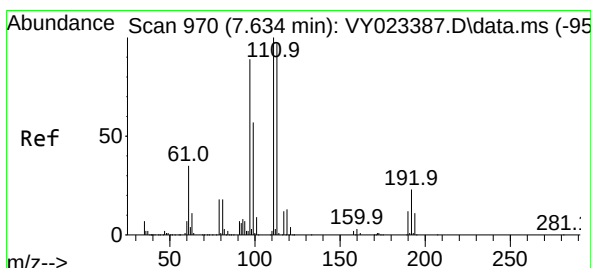
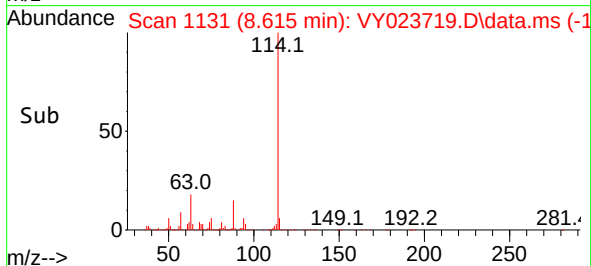
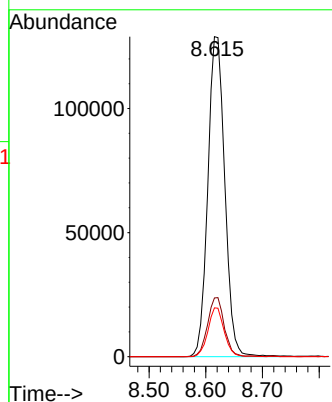
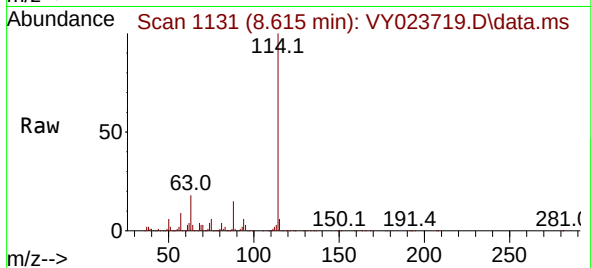
Tgt Ion:114 Resp: 267463

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.2

88 15.3 0.0 28.4



#35

Dibromofluoromethane

Concen: 63.984 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023719.D

Acq: 10 Nov 2025 16:59

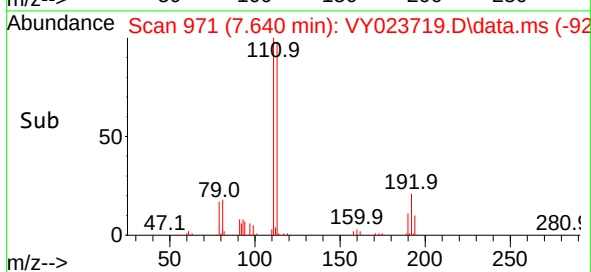
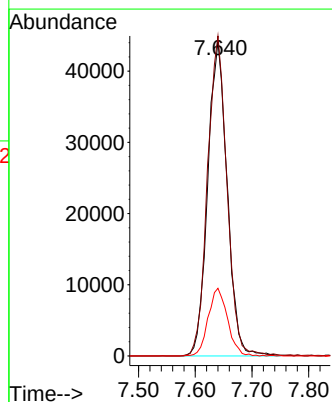
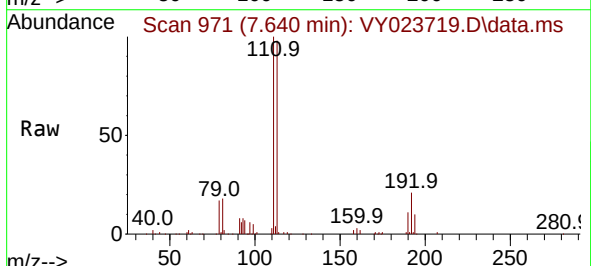
Tgt Ion:113 Resp: 105153

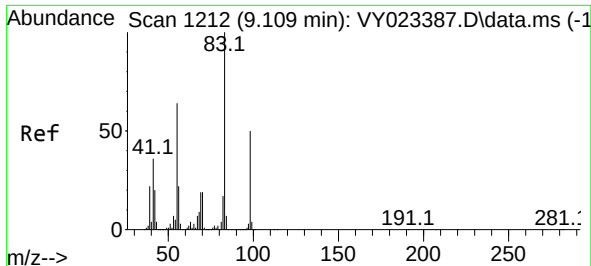
Ion Ratio Lower Upper

113 100

111 101.7 81.8 122.6

192 21.4 18.0 27.0





#39

Methylcyclohexane

Concen: 3.171 ug/l

RT: 9.115 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023719.D

Acq: 10 Nov 2025 16:59

Instrument :

MSVOA_Y

ClientSampleId :

C-LAW-25-0156-0166-COMP

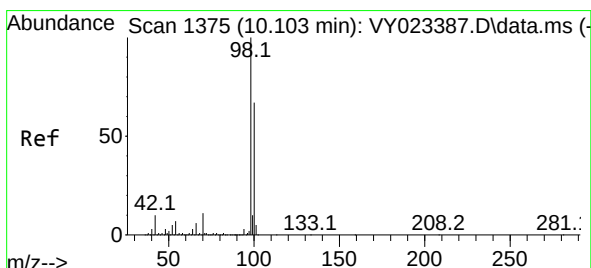
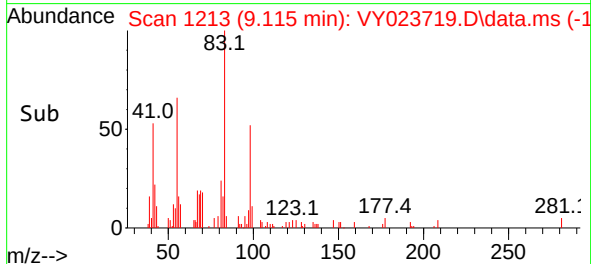
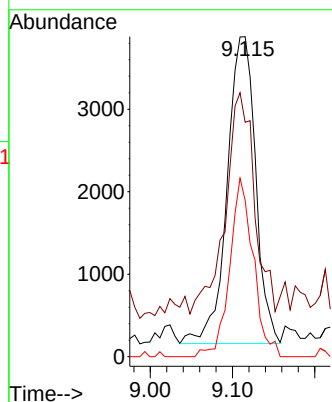
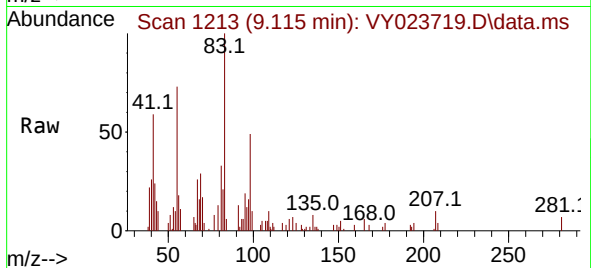
Tgt Ion: 83 Resp: 8984

Ion Ratio Lower Upper

83 100

55 60.3 51.4 77.2

98 50.9 40.4 60.6



#50

Toluene-d8

Concen: 43.264 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023719.D

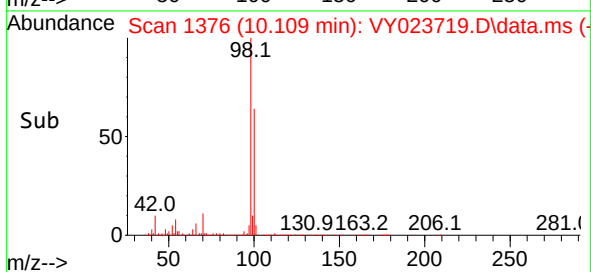
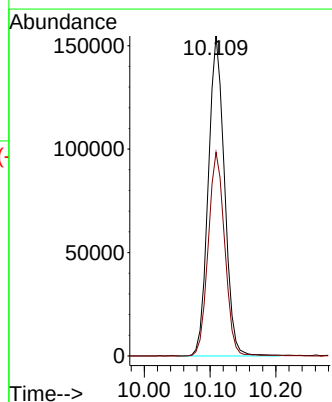
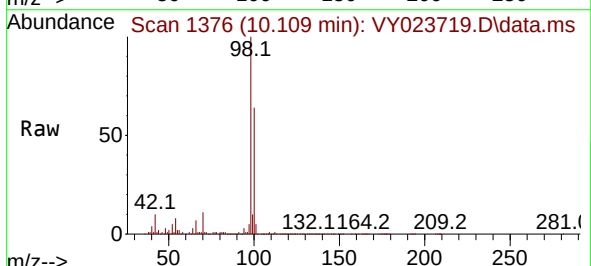
Acq: 10 Nov 2025 16:59

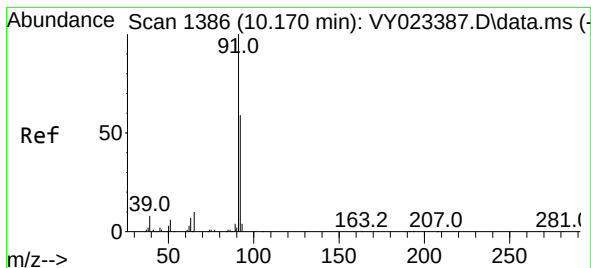
Tgt Ion: 98 Resp: 264788

Ion Ratio Lower Upper

98 100

100 64.9 53.0 79.4





#52

Toluene

Concen: 1.446 ug/l

RT: 10.176 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023719.D

Acq: 10 Nov 2025 16:59

Instrument :

MSVOA_Y

ClientSampleId :

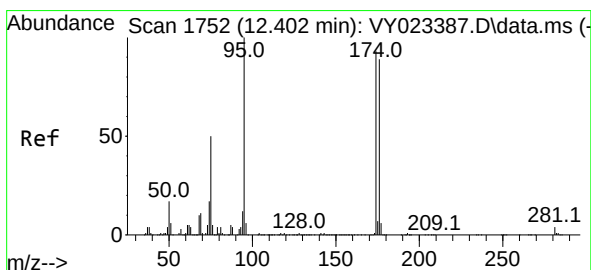
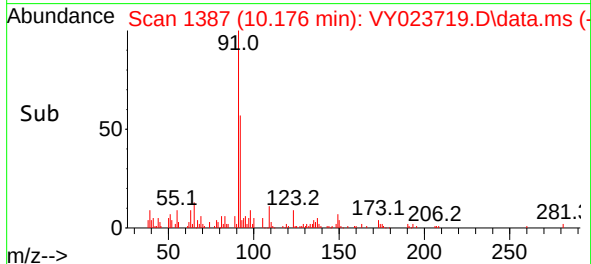
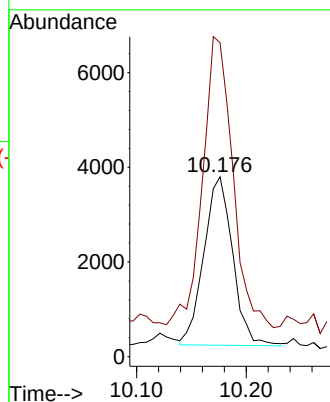
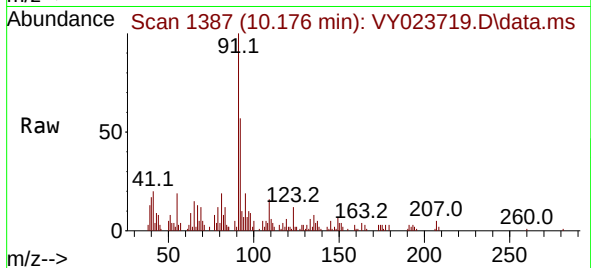
C-LAW-25-0156-0166-COMP

Tgt Ion: 92 Resp: 6467

Ion Ratio Lower Upper

92 100

91 181.6 136.4 204.6



#62

4-Bromofluorobenzene

Concen: 28.628 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY023719.D

Acq: 10 Nov 2025 16:59

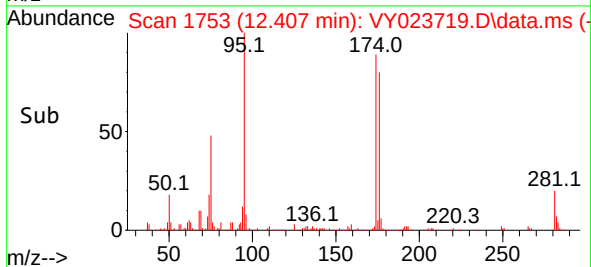
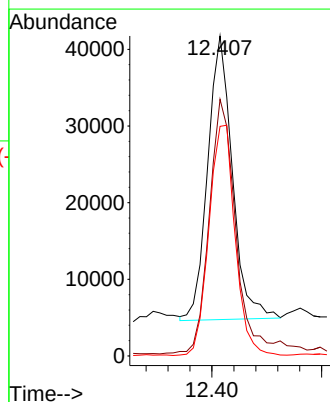
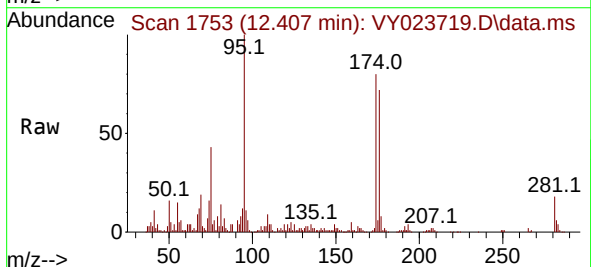
Tgt Ion: 95 Resp: 57847

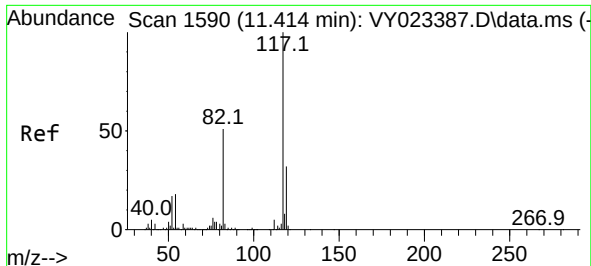
Ion Ratio Lower Upper

95 100

174 99.0 0.0 192.8

176 86.0 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: VY023719.D

Acq: 10 Nov 2025 16:59

Instrument :

MSVOA_Y

ClientSampleId :

C-LAW-25-0156-0166-COMP

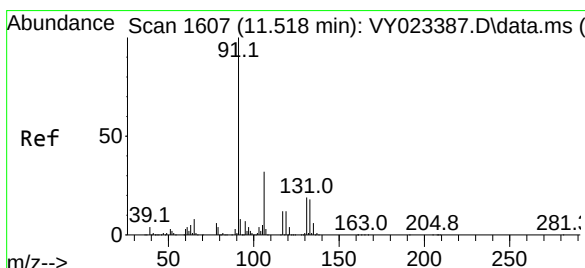
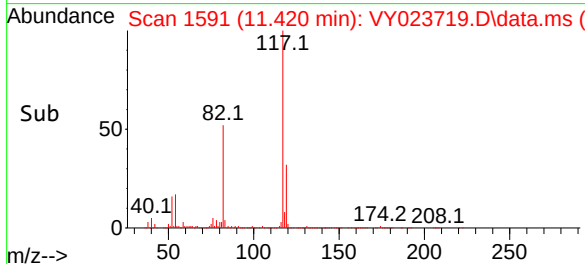
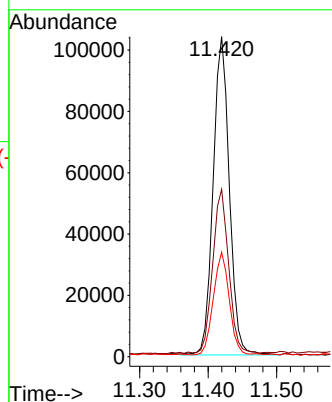
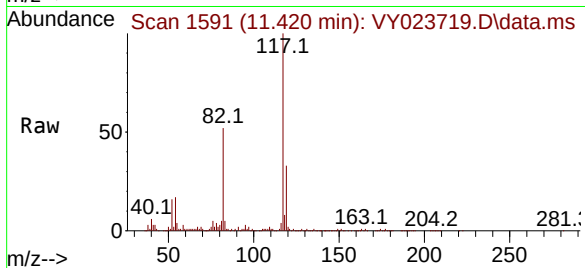
Tgt Ion:117 Resp: 170858

Ion Ratio Lower Upper

117 100

82 51.2 41.0 61.4

119 32.2 25.6 38.4



#67

Ethyl Benzene

Concen: 2.309 ug/l

RT: 11.523 min Scan# 1608

Delta R.T. 0.006 min

Lab File: VY023719.D

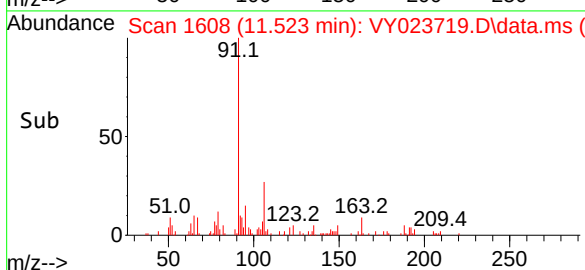
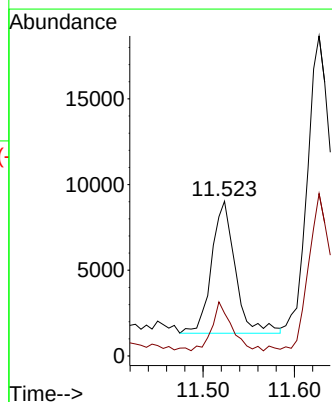
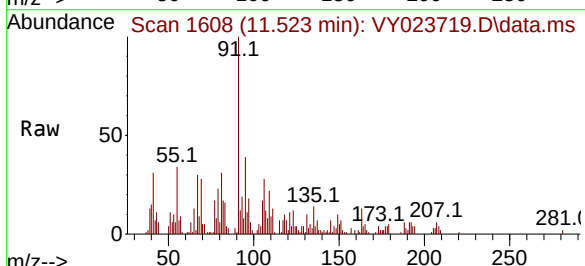
Acq: 10 Nov 2025 16:59

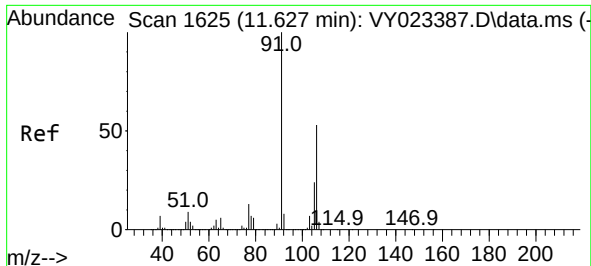
Tgt Ion: 91 Resp: 13887

Ion Ratio Lower Upper

91 100

106 27.3 25.8 38.8

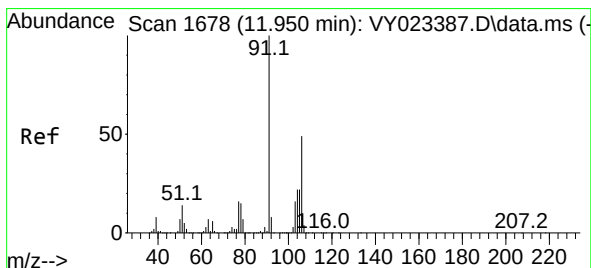
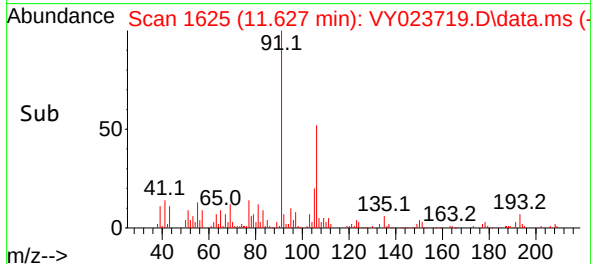
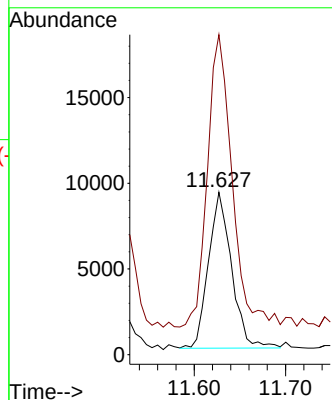
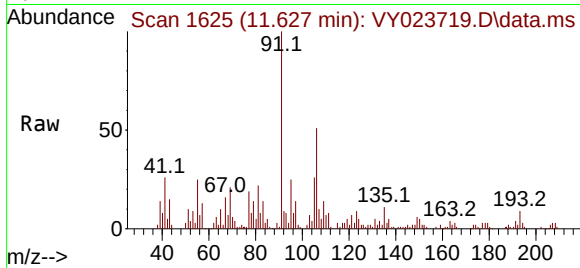




#68
m/p-Xylenes
Concen: 6.613 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY023719.D
Acq: 10 Nov 2025 16:59

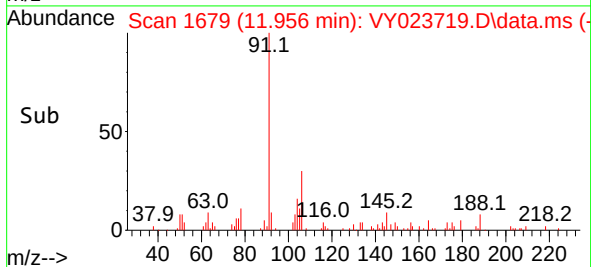
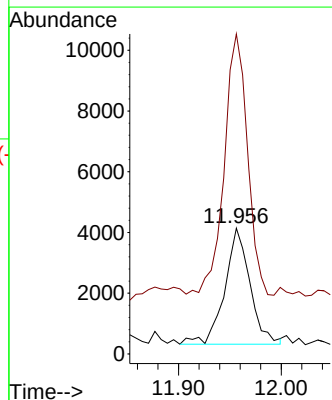
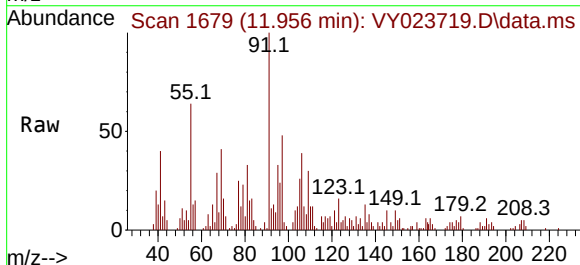
Instrument :
MSVOA_Y
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C-LAW-25-0156-0166-COMP

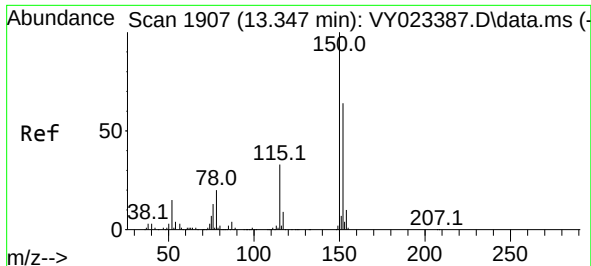
Tgt Ion:106 Resp: 15954
Ion Ratio Lower Upper
106 100
91 200.3 152.6 229.0



#69
o-Xylene
Concen: 2.891 ug/l
RT: 11.956 min Scan# 1679
Delta R.T. 0.006 min
Lab File: VY023719.D
Acq: 10 Nov 2025 16:59

Tgt Ion:106 Resp: 6543
Ion Ratio Lower Upper
106 100
91 208.8 101.4 304.1

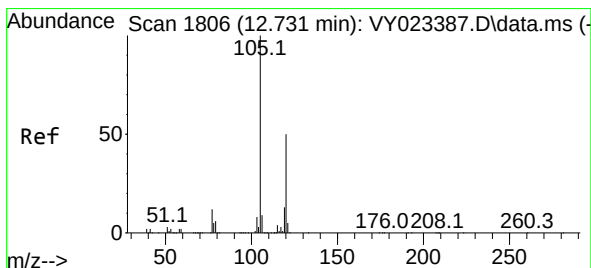
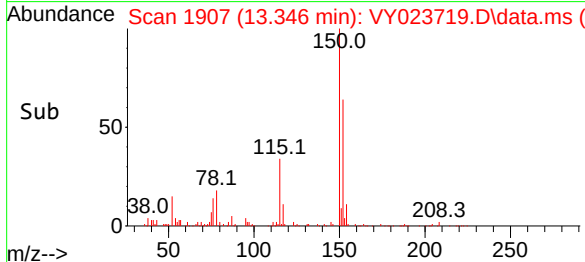
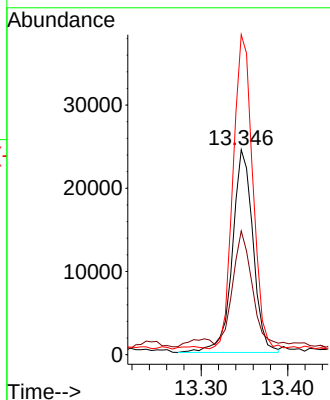
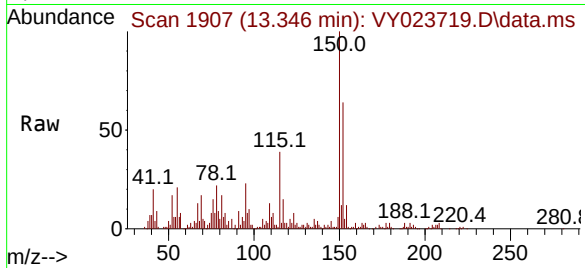




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY023719.D
 Acq: 10 Nov 2025 16:59

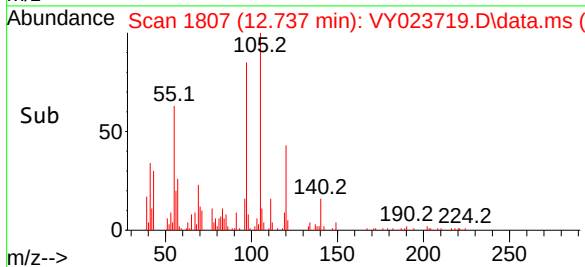
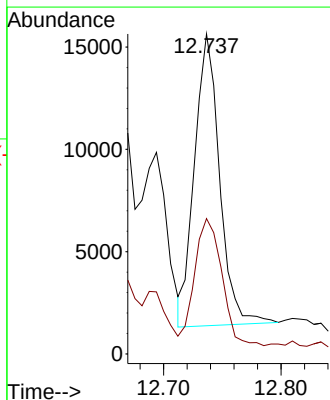
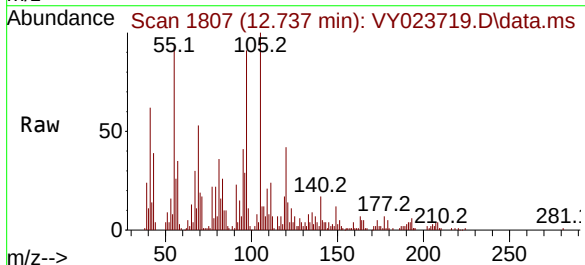
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 C-LAW-25-0156-0166-COMP

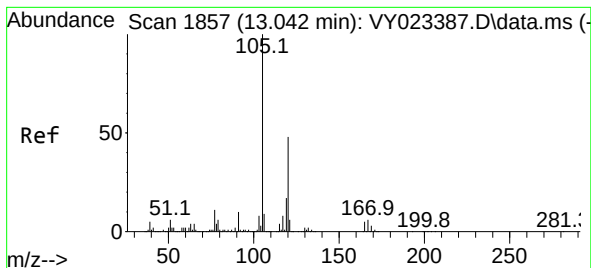
Tgt Ion:152 Resp: 40378
 Ion Ratio Lower Upper
 152 100
 115 52.4 27.1 81.2
 150 146.8 0.0 347.4



#80
 1,3,5-Trimethylbenzene
 Concen: 9.817 ug/l
 RT: 12.737 min Scan# 1807
 Delta R.T. 0.006 min
 Lab File: VY023719.D
 Acq: 10 Nov 2025 16:59

Tgt Ion:105 Resp: 21108
 Ion Ratio Lower Upper
 105 100
 120 47.7 25.4 76.4





#84

1,2,4-Trimethylbenzene

Concen: 25.676 ug/l

RT: 13.041 min Scan# 1857

Delta R.T. -0.000 min

Lab File: VY023719.D

Acq: 10 Nov 2025 16:59

Instrument :

MSVOA_Y

ClientSampleId :

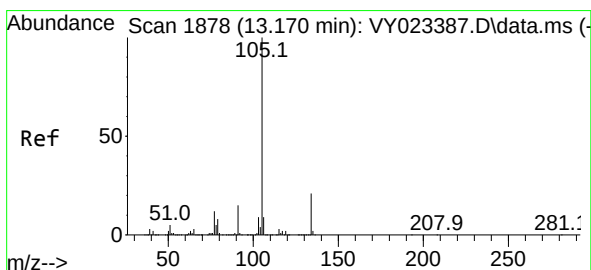
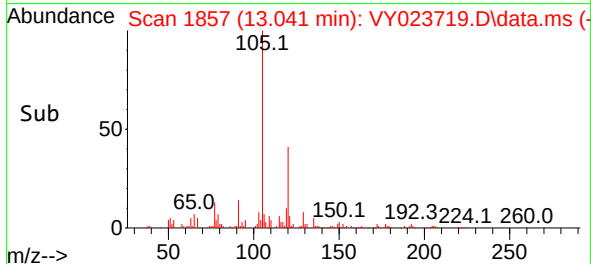
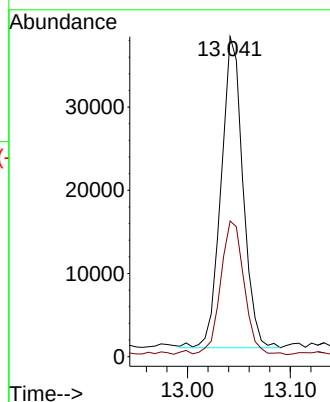
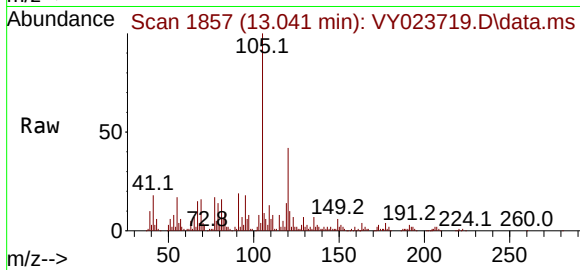
C-LAW-25-0156-0166-COMP

Tgt Ion:105 Resp: 55100

Ion Ratio Lower Upper

105 100

120 45.9 23.8 71.2



#85

sec-Butylbenzene

Concen: 5.707 ug/l

RT: 13.176 min Scan# 1879

Delta R.T. 0.006 min

Lab File: VY023719.D

Acq: 10 Nov 2025 16:59

Tgt Ion:105 Resp: 16252

Ion Ratio Lower Upper

105 100

134 26.8 10.7 32.1

