

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103125\
 Data File : VN088188.D
 Acq On : 31 Oct 2025 15:03
 Operator : JC\MD
 Sample : Q3490-01
 Misc : 1.23g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LAW-25-0151

Quant Time: Nov 01 00:34:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

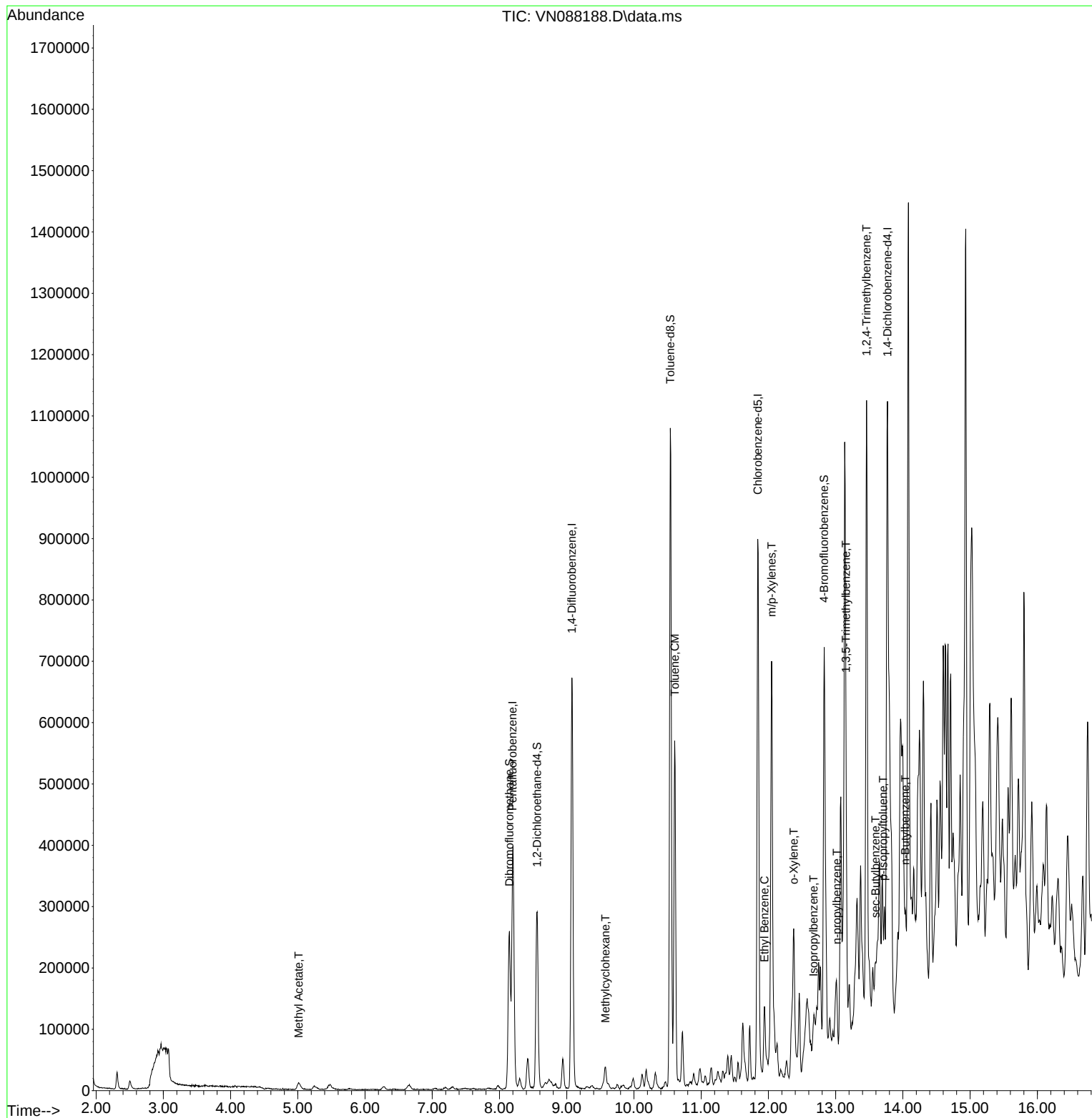
Internal Standards						
1) Pentafluorobenzene	8.194	168	246991	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	9.077	114	555346	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	502679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	233574	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	254105	59.496	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 119.000%		
35) Dibromofluoromethane	8.147	113	187653	50.298	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 100.600%		
50) Toluene-d8	10.541	98	708845	49.309	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 98.620%		
62) 4-Bromofluorobenzene	12.829	95	260276	51.267	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 102.540%		
Target Compounds						
					Qvalue	
18) Methyl Acetate	5.012	43	27180	6.187	ug/l #	75
39) Methylcyclohexane	9.577	83	13798	1.971	ug/l #	91
52) Toluene	10.606	92	241400	23.601	ug/l	97
67) Ethyl Benzene	11.941	91	84271	4.206	ug/l	95
68) m/p-Xylenes	12.047	106	115024	15.322	ug/l	94
69) o-Xylene	12.376	106	59476	8.358	ug/l	97
73) Isopropylbenzene	12.671	105	28848	1.601	ug/l	93
78) n-propylbenzene	13.018	91	86417	3.931	ug/l	100
80) 1,3,5-Trimethylbenzene	13.153	105	147091	9.831	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	609970	40.748	ug/l	98
85) sec-Butylbenzene	13.594	105	29272	1.491	ug/l #	78
86) p-Isopropyltoluene	13.706	119	19184	1.218	ug/l	94
89) n-Butylbenzene	14.035	91	56150	3.599	ug/l #	82

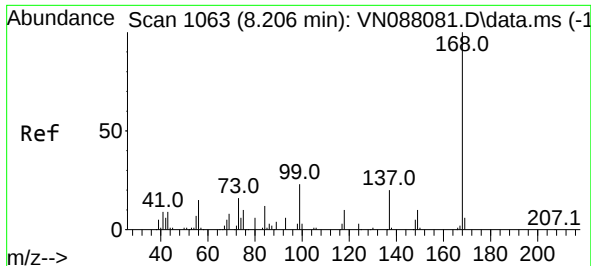
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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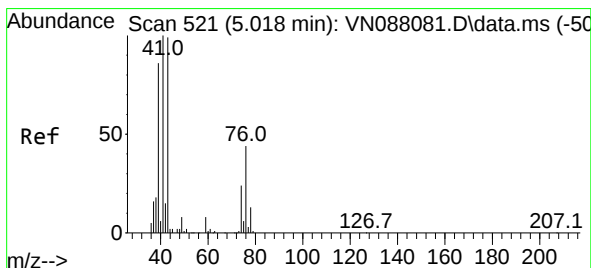
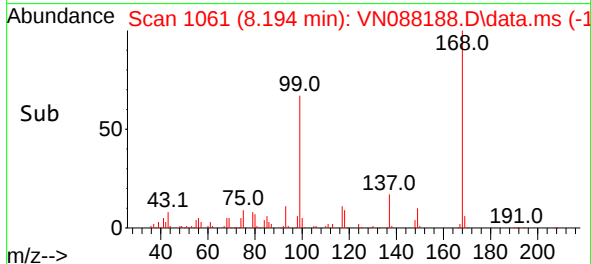
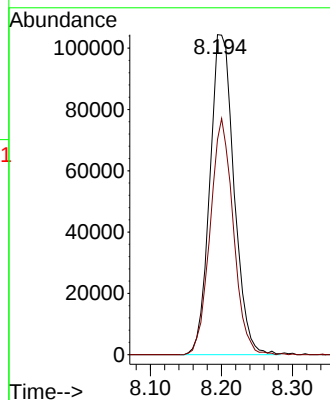
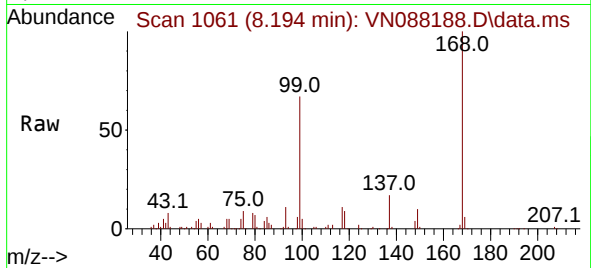




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.194 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

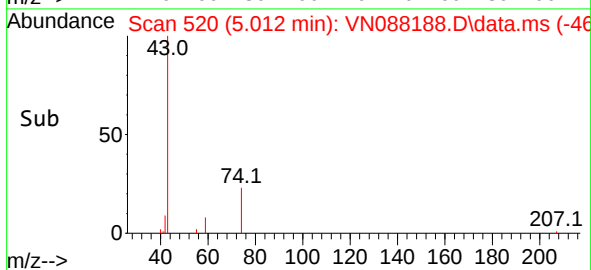
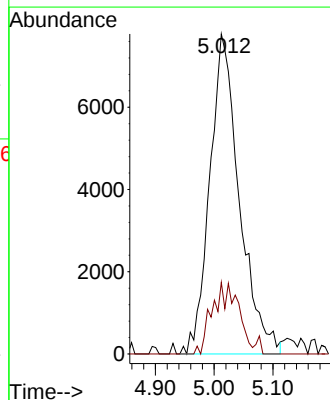
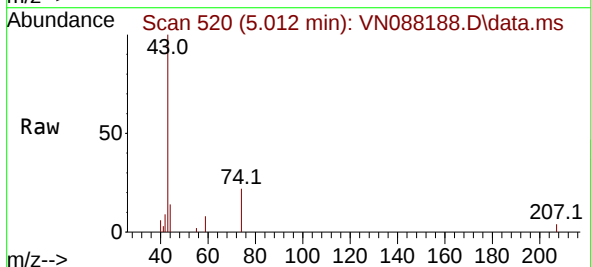
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0151

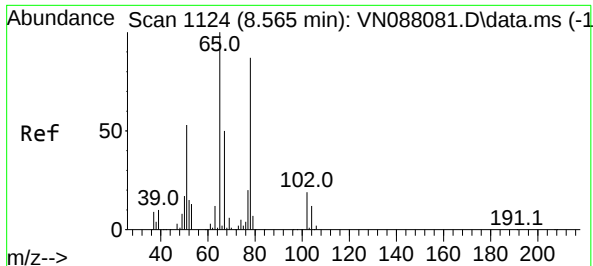
Tgt Ion:168 Resp: 246991
Ion Ratio Lower Upper
168 100
99 67.2 57.2 85.8



#18
Methyl Acetate
Concen: 6.187 ug/l
RT: 5.012 min Scan# 520
Delta R.T. 0.000 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

Tgt Ion: 43 Resp: 27180
Ion Ratio Lower Upper
43 100
74 10.1 17.6 26.4#





#33

1,2-Dichloroethane-d4

Concen: 59.496 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088188.D

Acq: 31 Oct 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

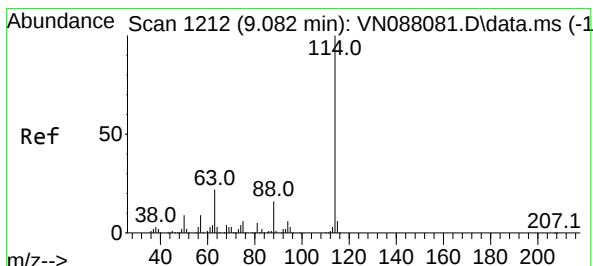
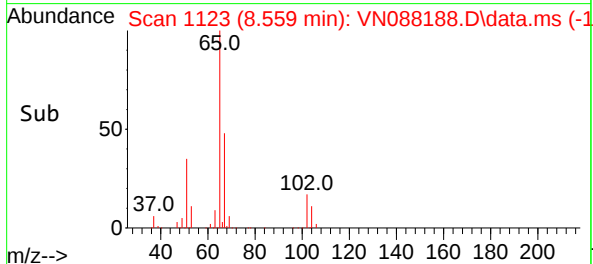
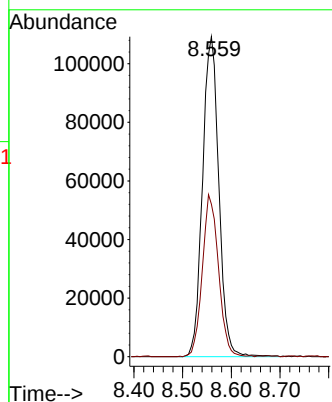
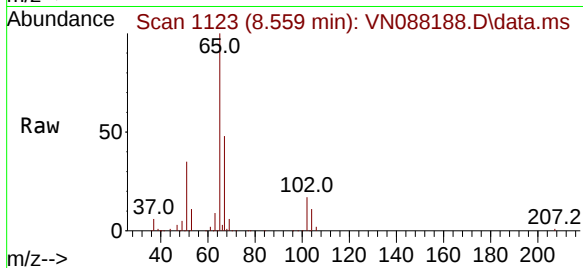
LAW-25-0151

Tgt Ion: 65 Resp: 254105

Ion Ratio Lower Upper

65 100

67 50.1 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN088188.D

Acq: 31 Oct 2025 15:03

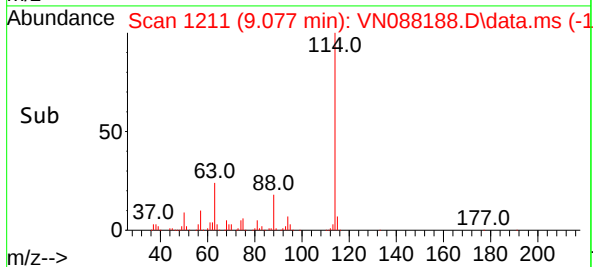
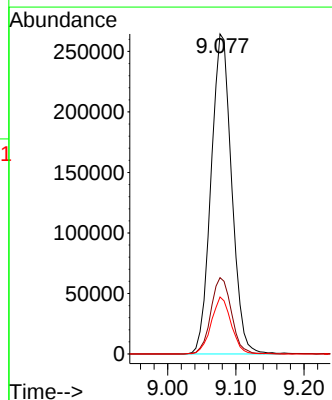
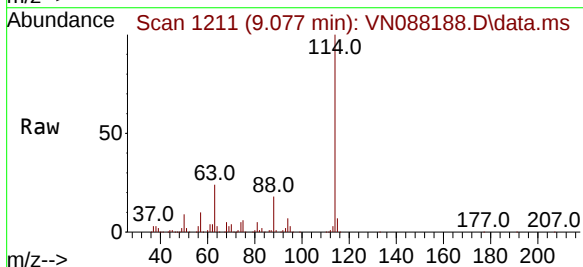
Tgt Ion: 114 Resp: 555346

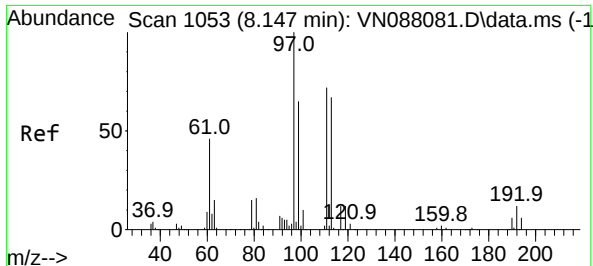
Ion Ratio Lower Upper

114 100

63 23.9 0.0 45.2

88 17.8 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.298 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088188.D

Acq: 31 Oct 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

LAW-25-0151

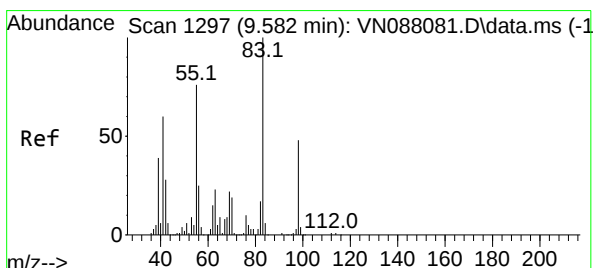
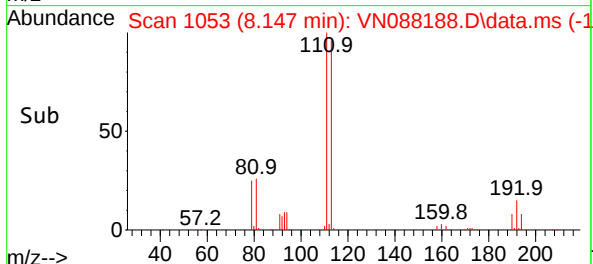
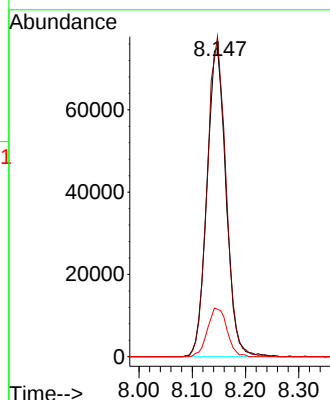
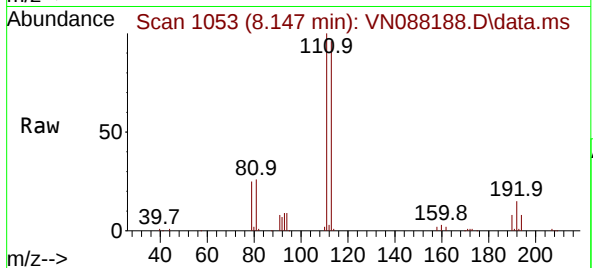
Tgt Ion:113 Resp: 187653

Ion Ratio Lower Upper

113 100

111 101.9 82.8 124.2

192 16.0 12.8 19.2



#39

Methylcyclohexane

Concen: 1.971 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN088188.D

Acq: 31 Oct 2025 15:03

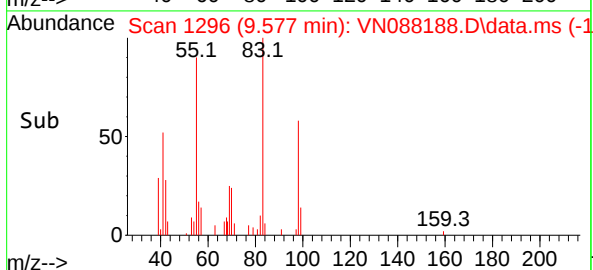
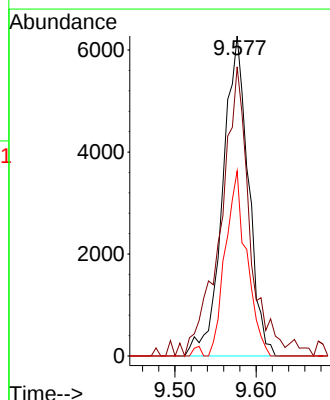
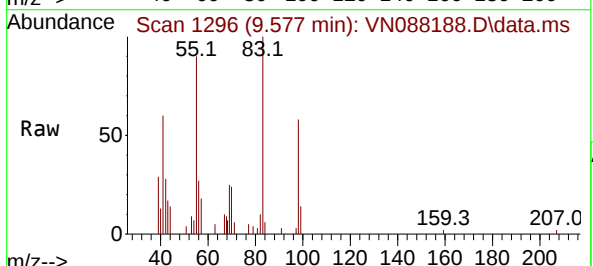
Tgt Ion: 83 Resp: 13798

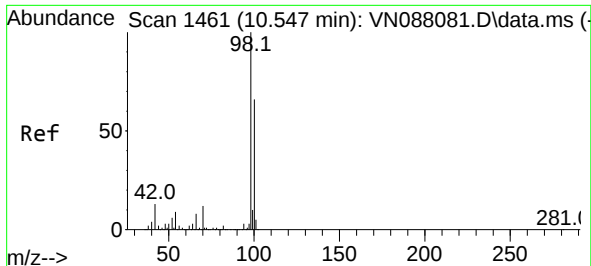
Ion Ratio Lower Upper

83 100

55 86.3 64.6 96.8

98 57.8 38.4 57.6#

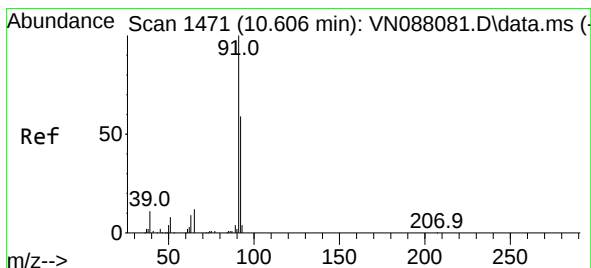
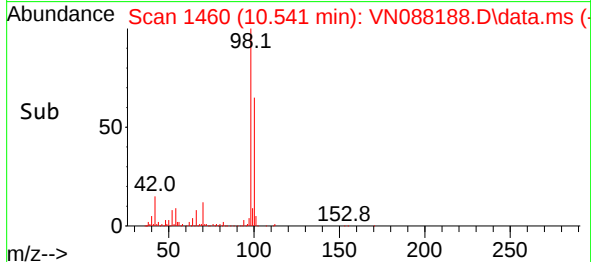
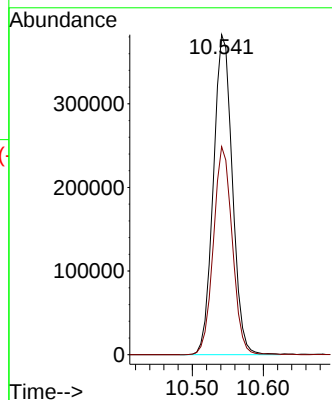
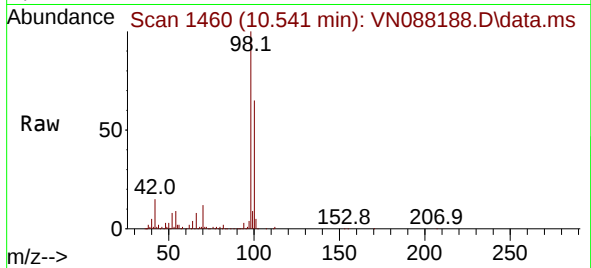




#50
Toluene-d8
Concen: 49.309 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

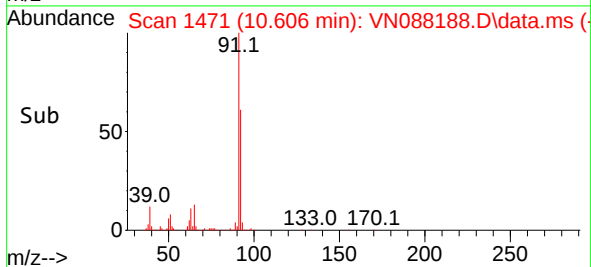
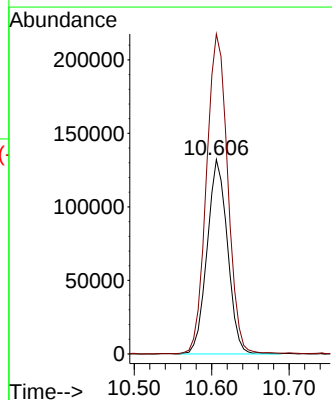
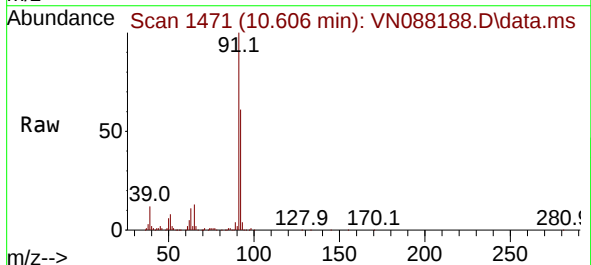
Instrument :
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LAW-25-0151

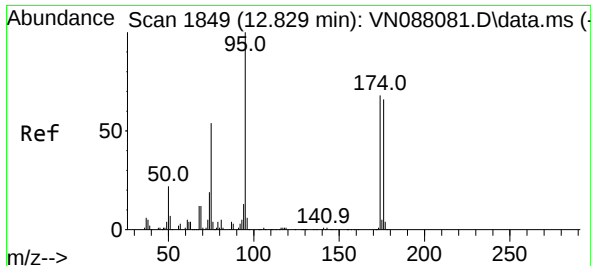
Tgt Ion: 98 Resp: 708845
Ion Ratio Lower Upper
98 100
100 64.6 52.8 79.2



#52
Toluene
Concen: 23.601 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

Tgt Ion: 92 Resp: 241400
Ion Ratio Lower Upper
92 100
91 171.2 140.4 210.6

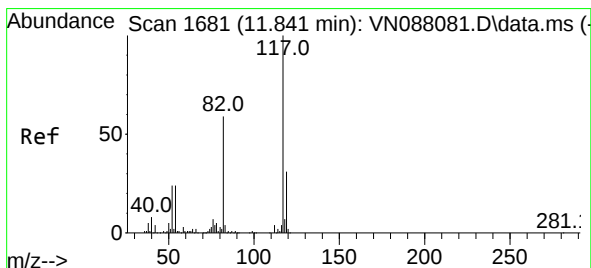
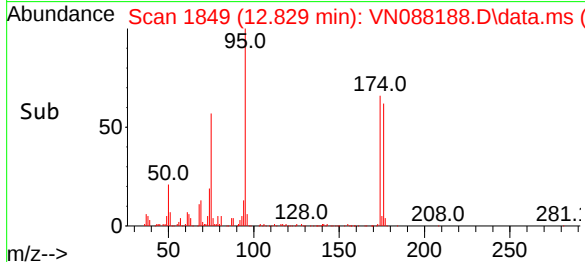
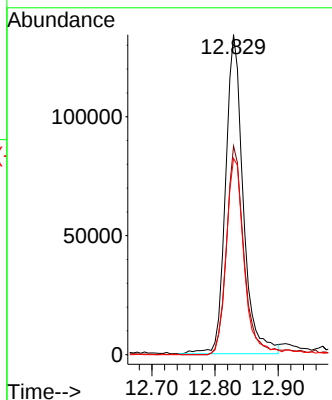
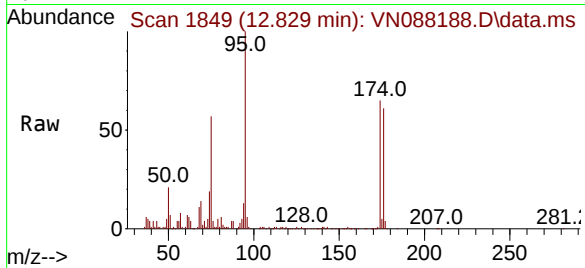




#62
4-Bromofluorobenzene
Concen: 51.267 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

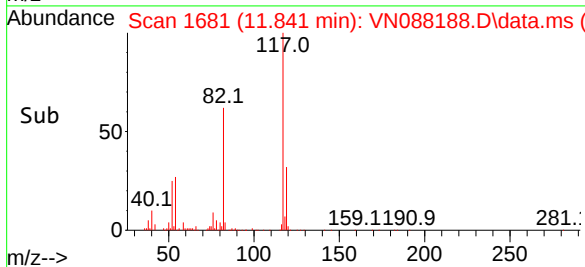
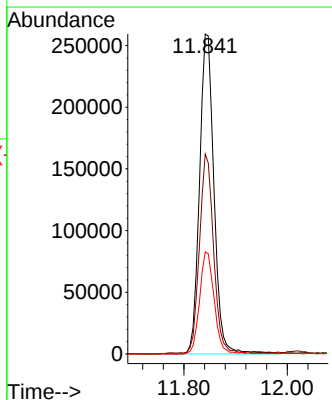
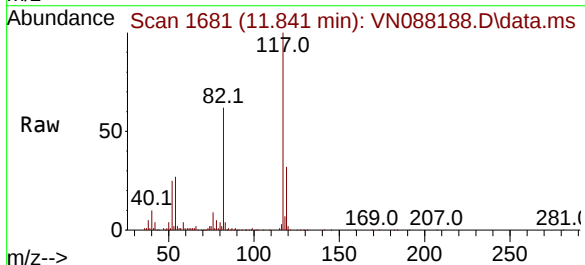
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0151

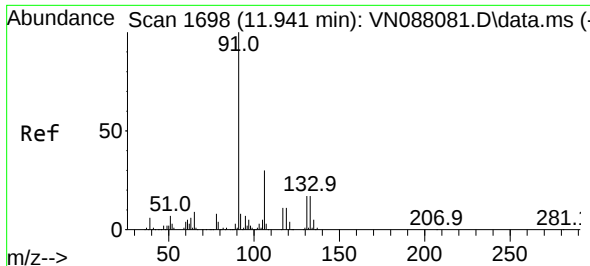
Tgt Ion: 95 Resp: 260276
Ion Ratio Lower Upper
95 100
174 65.7 0.0 138.4
176 62.2 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

Tgt Ion: 117 Resp: 502679
Ion Ratio Lower Upper
117 100
82 62.2 47.4 71.2
119 31.9 24.3 36.5





#67

Ethyl Benzene

Concen: 4.206 ug/l

RT: 11.941 min Scan# 1698

Delta R.T. 0.000 min

Lab File: VN088188.D

Acq: 31 Oct 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

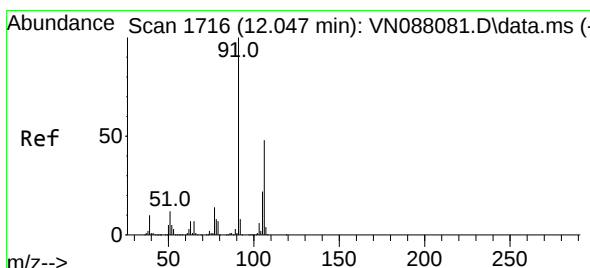
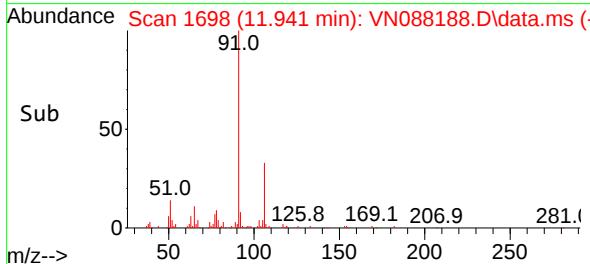
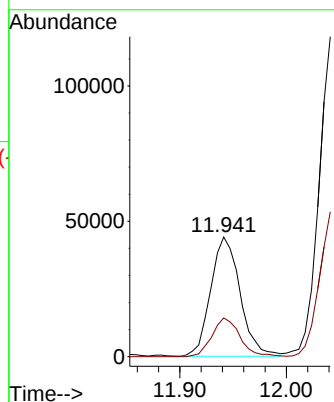
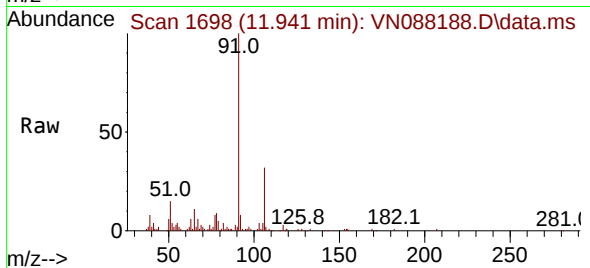
LAW-25-0151

Tgt Ion: 91 Resp: 84271

Ion Ratio Lower Upper

91 100

106 32.6 24.1 36.1



#68

m/p-Xylenes

Concen: 15.322 ug/l

RT: 12.047 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VN088188.D

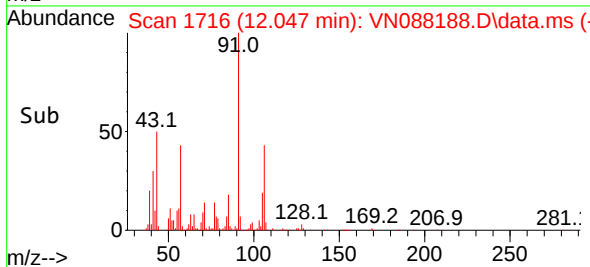
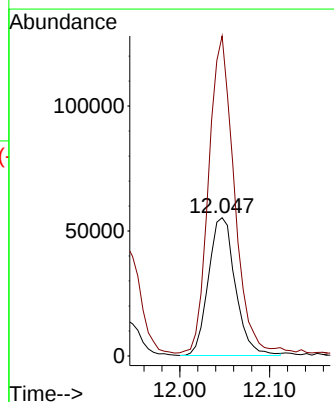
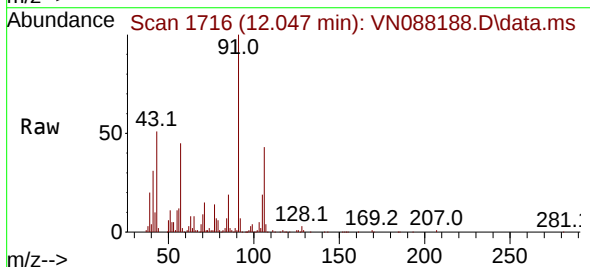
Acq: 31 Oct 2025 15:03

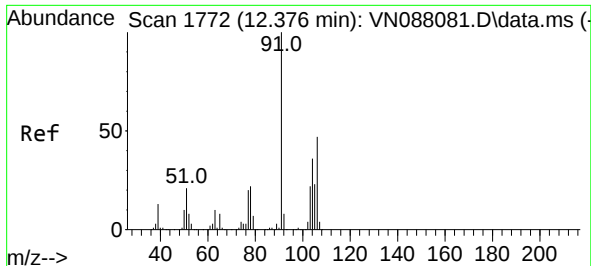
Tgt Ion:106 Resp: 115024

Ion Ratio Lower Upper

106 100

91 220.6 169.3 253.9

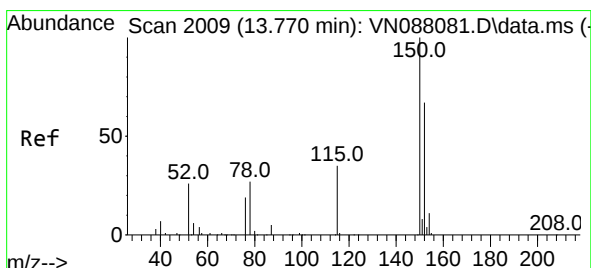
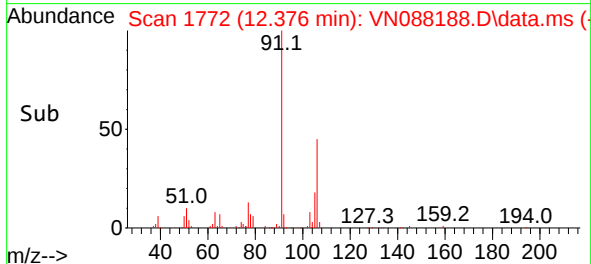
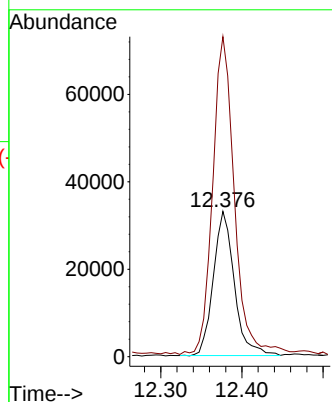
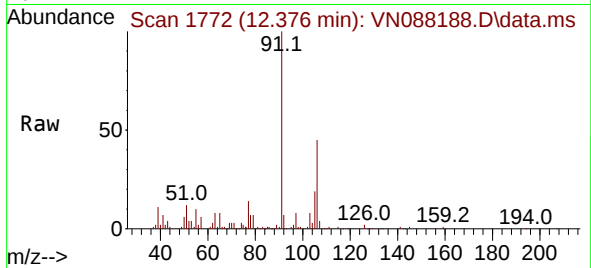




#69
o-Xylene
Concen: 8.358 ug/l
RT: 12.376 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

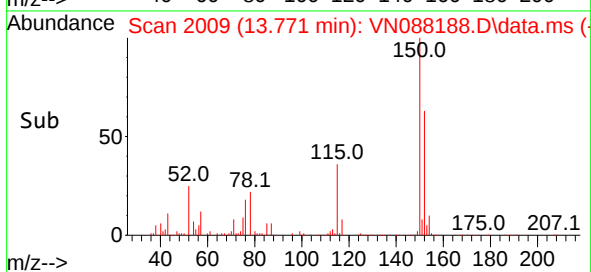
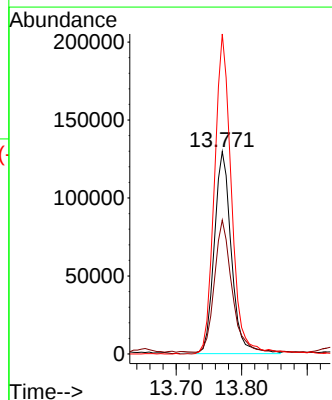
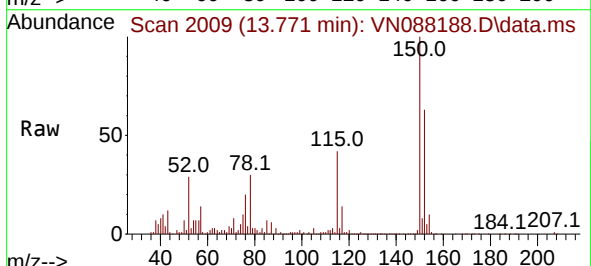
Instrument :
MSVOA_N
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LAW-25-0151

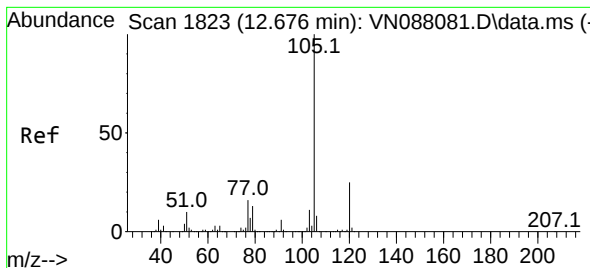
Tgt Ion:106 Resp: 59476
Ion Ratio Lower Upper
106 100
91 227.3 111.4 334.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.006 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

Tgt Ion:152 Resp: 233574
Ion Ratio Lower Upper
152 100
115 67.0 32.3 96.8
150 158.9 0.0 351.0





#73

Isopropylbenzene

Concen: 1.601 ug/l

RT: 12.671 min Scan# 1822

Delta R.T. 0.000 min

Lab File: VN088188.D

Acq: 31 Oct 2025 15:03

Instrument :

MSVOA_N

ClientSampleId :

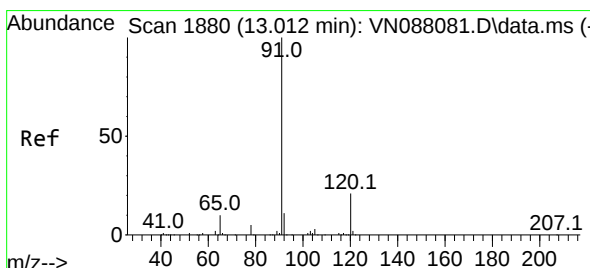
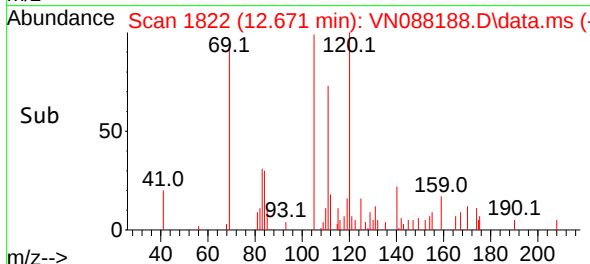
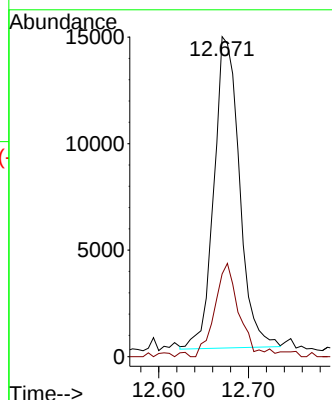
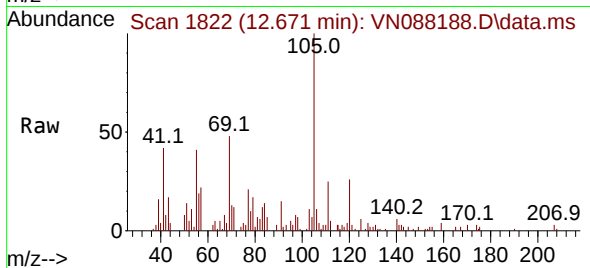
LAW-25-0151

Tgt Ion:105 Resp: 28848

Ion Ratio Lower Upper

105 100

120 28.9 12.8 38.3



#78

n-propylbenzene

Concen: 3.931 ug/l

RT: 13.018 min Scan# 1881

Delta R.T. 0.006 min

Lab File: VN088188.D

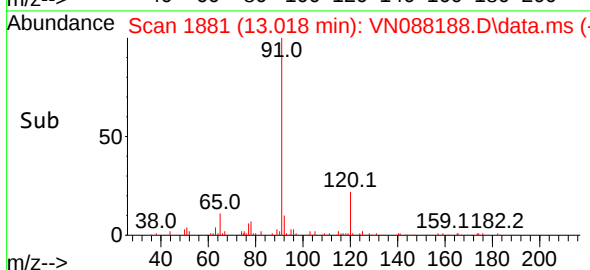
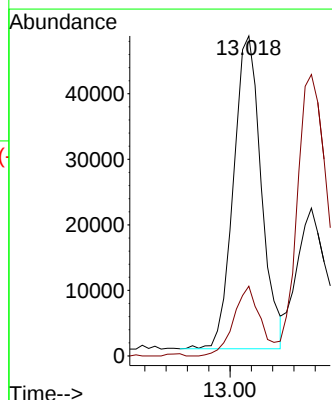
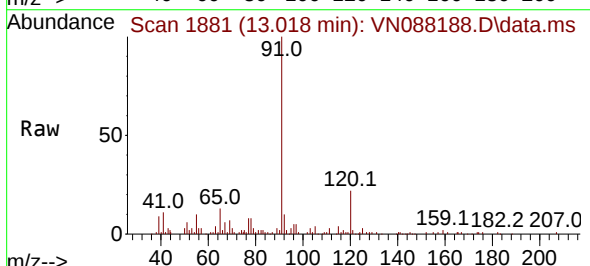
Acq: 31 Oct 2025 15:03

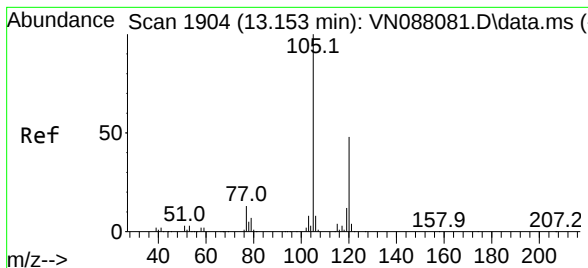
Tgt Ion: 91 Resp: 86417

Ion Ratio Lower Upper

91 100

120 21.3 10.7 32.1

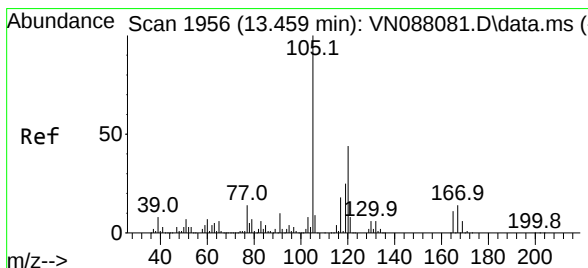
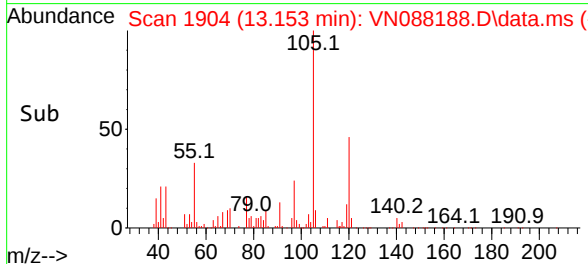
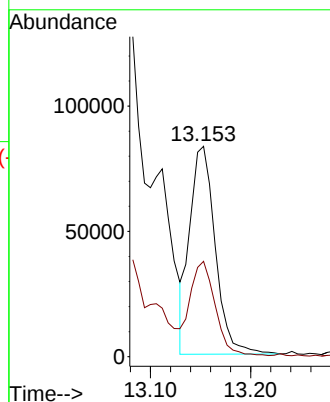
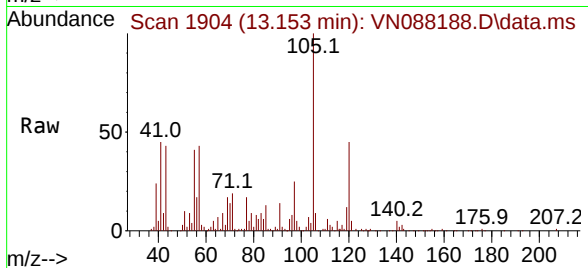




#80
1,3,5-Trimethylbenzene
Concen: 9.831 ug/l
RT: 13.153 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

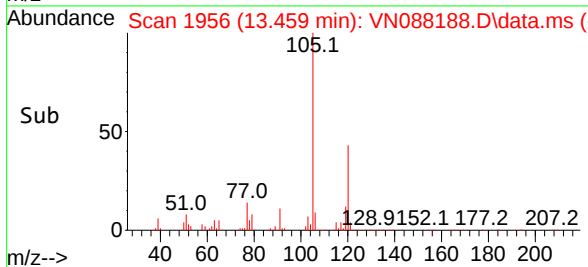
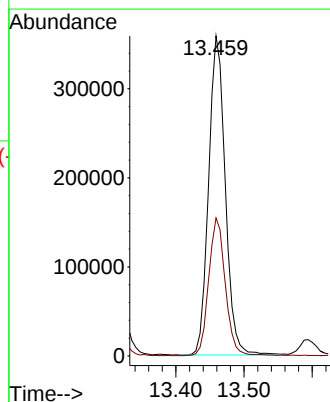
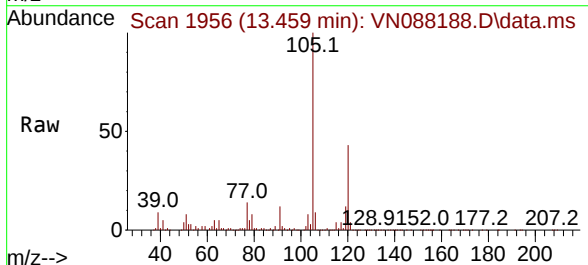
Instrument :
MSVOA_N
ClientSampleId :
LAW-25-0151

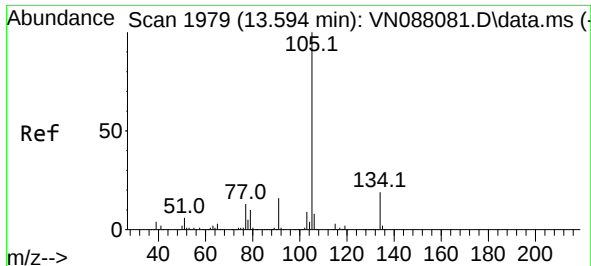
Tgt Ion:105 Resp: 147091
Ion Ratio Lower Upper
105 100
120 44.5 23.2 69.6



#84
1,2,4-Trimethylbenzene
Concen: 40.748 ug/l
RT: 13.459 min Scan# 1956
Delta R.T. 0.000 min
Lab File: VN088188.D
Acq: 31 Oct 2025 15:03

Tgt Ion:105 Resp: 609970
Ion Ratio Lower Upper
105 100
120 43.0 22.0 66.0

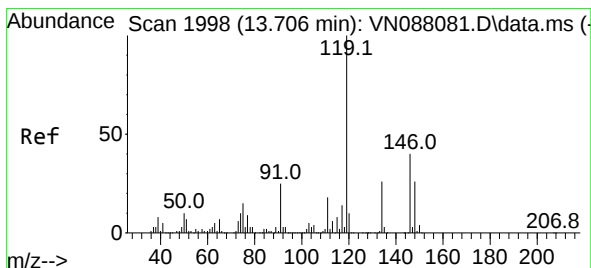
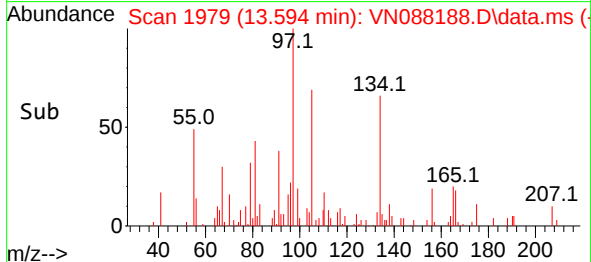
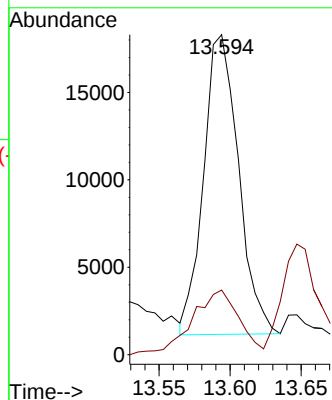
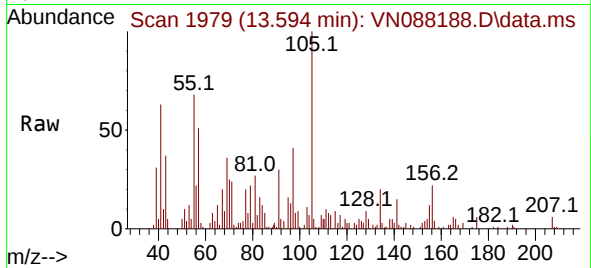




#85
 sec-Butylbenzene
 Concen: 1.491 ug/l
 RT: 13.594 min Scan# 1979
 Delta R.T. 0.000 min
 Lab File: VN088188.D
 Acq: 31 Oct 2025 15:03

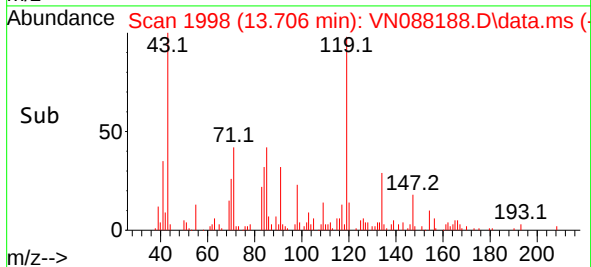
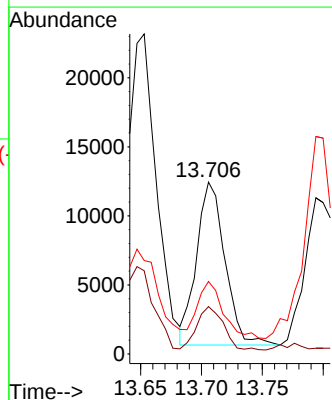
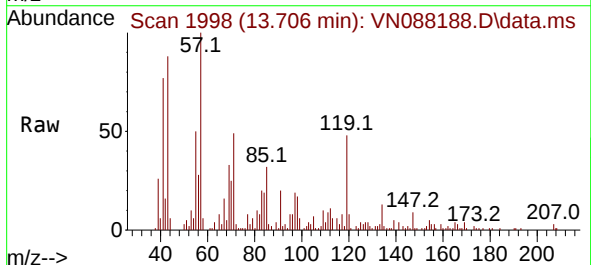
Instrument :
 MSVOA_N
 ClientSampleId :
 LAW-25-0151

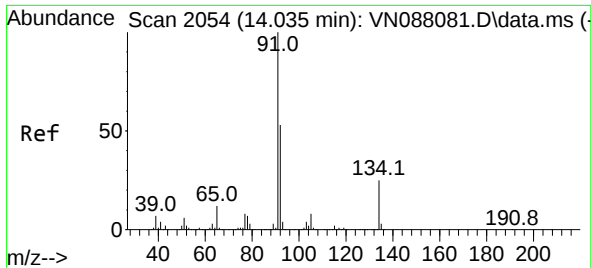
Tgt Ion:105 Resp: 29272
 Ion Ratio Lower Upper
 105 100
 134 29.2 9.6 28.6#



#86
 p-Isopropyltoluene
 Concen: 1.218 ug/l
 RT: 13.706 min Scan# 1998
 Delta R.T. 0.000 min
 Lab File: VN088188.D
 Acq: 31 Oct 2025 15:03

Tgt Ion:119 Resp: 19184
 Ion Ratio Lower Upper
 119 100
 134 25.9 12.7 38.0
 91 30.8 12.5 37.5





#89
 n-Butylbenzene
 Concen: 3.599 ug/l
 RT: 14.035 min Scan# 2054
 Delta R.T. 0.006 min
 Lab File: VN088188.D
 Acq: 31 Oct 2025 15:03

Instrument :
 MSVOA_N
 ClientSampleId :
 LAW-25-0151

Tgt Ion: 91 Resp: 56150
 Ion Ratio Lower Upper
 91 100
 92 55.1 25.9 77.8
 134 0.0 11.7 35.0#

