

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100325\
 Data File : VN088022.D
 Acq On : 03 Oct 2025 14:38
 Operator : JC\MD
 Sample : Q3274-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW5

Quant Time: Oct 04 02:57:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.206	168	274294	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	584137	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	570238	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	295091	50.000	ug/l	0.00

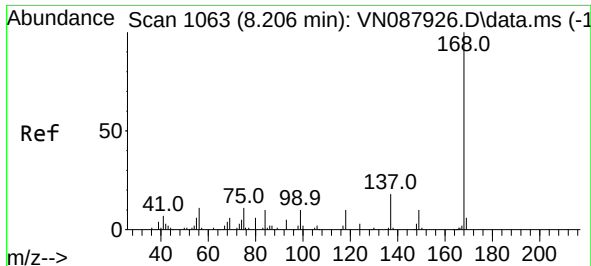
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	228064	49.406	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.820%
35) Dibromofluoromethane	8.147	113	183432	43.250	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	86.500%
50) Toluene-d8	10.547	98	682810	45.782	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.560%
62) 4-Bromofluorobenzene	12.829	95	261988	49.143	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.280%

Target Compounds					Qvalue
16) Acetone	4.424	43	343936	181.086	ug/l 97
25) 2-Butanone	7.483	43	15223	5.244	ug/l # 81
31) Cyclohexane	8.241	56	1363619	263.431	ug/l 96
39) Methylcyclohexane	9.582	83	1237115	219.900	ug/l 99
40) Benzene	8.588	78	1267518	75.065	ug/l 98
52) Toluene	10.612	92	75631	7.138	ug/l 93
67) Ethyl Benzene	11.941	91	411229	20.309	ug/l 97
68) m/p-Xylenes	12.053	106	88034	11.368	ug/l 91
69) o-Xylene	12.376	106	26208	3.522	ug/l 95
73) Isopropylbenzene	12.670	105	1061275	58.028	ug/l 100
78) n-propylbenzene	13.012	91	2432561	106.383	ug/l 100
83) tert-Butylbenzene	13.412	119	23219	1.734	ug/l 80
84) 1,2,4-Trimethylbenzene	13.459	105	11207	0.691	ug/l 88
85) sec-Butylbenzene	13.594	105	203166	10.349	ug/l # 72
86) p-Isopropyltoluene	13.706	119	31335	1.885	ug/l 96
89) n-Butylbenzene	14.029	91	244616	15.568	ug/l # 77

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

Quant Time: Oct 04 02:57:00 2025
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QLast Update : Wed Sep 24 05:05:30 2025
Response via : Initial Calibration

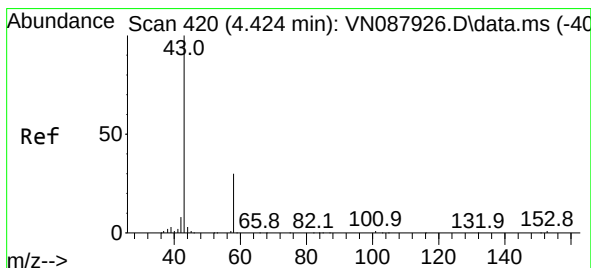
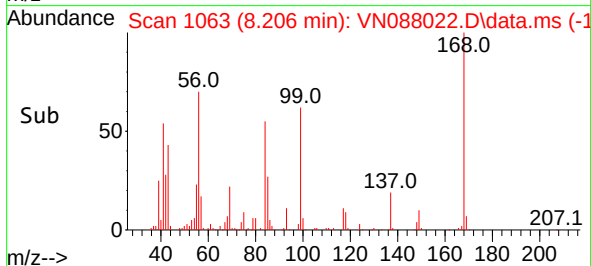
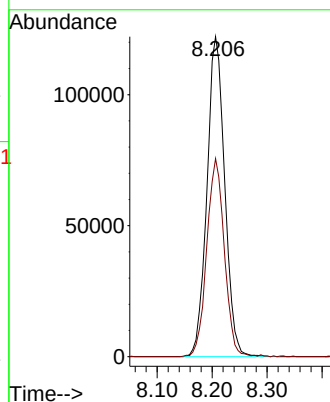
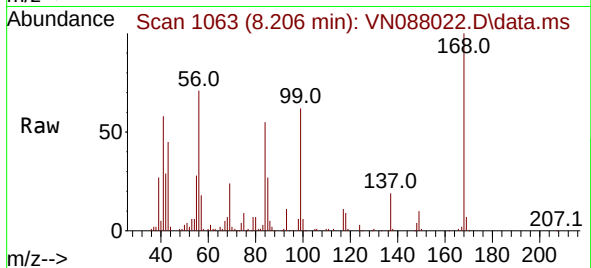




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

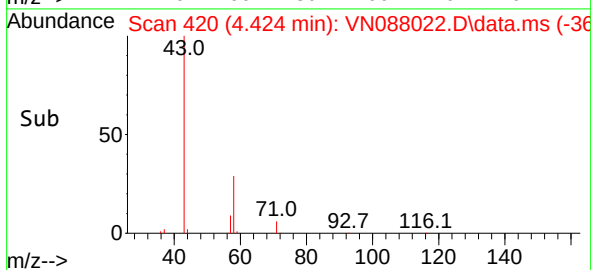
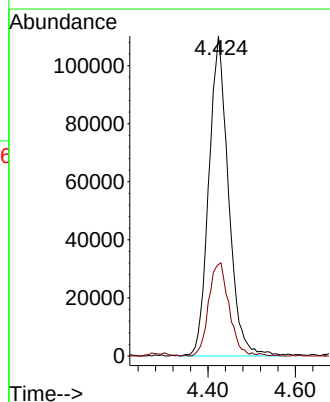
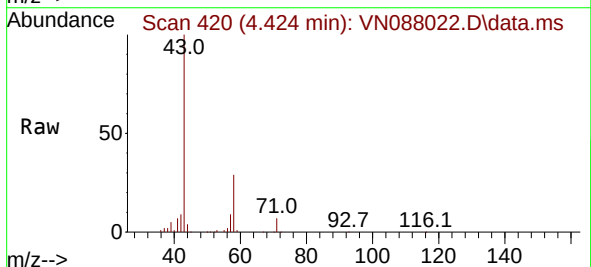
Instrument :
MSVOA_N
ClientSampleId :
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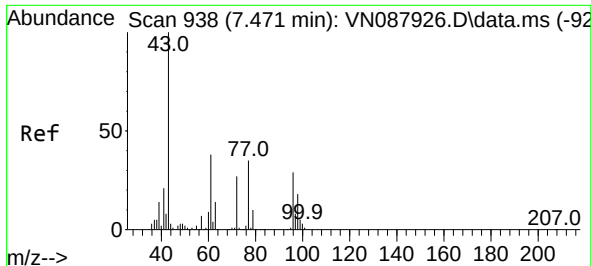
Tgt Ion:168 Resp: 274294
Ion Ratio Lower Upper
168 100
99 61.9 52.2 78.2



#16
Acetone
Concen: 181.086 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion: 43 Resp: 343936
Ion Ratio Lower Upper
43 100
58 28.6 24.1 36.1

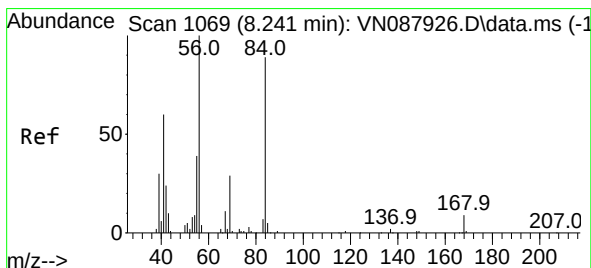
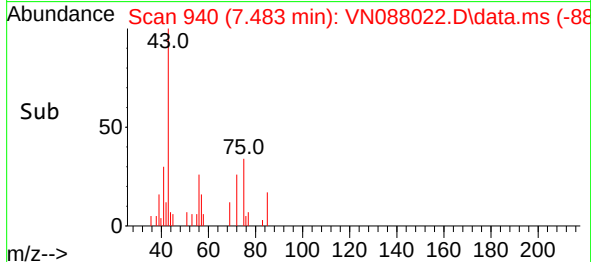
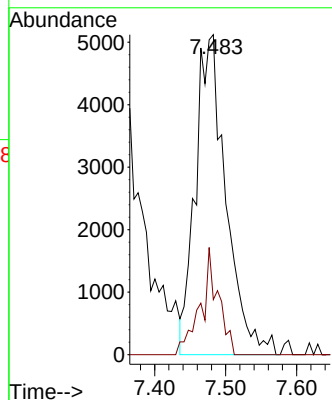
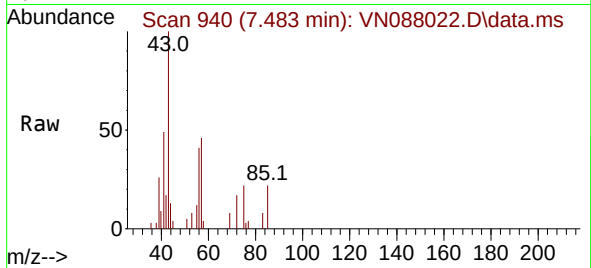




#25
2-Butanone
Concen: 5.244 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.012 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

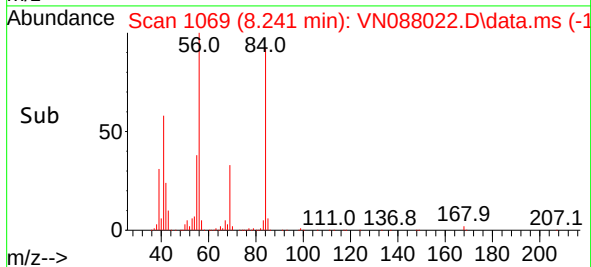
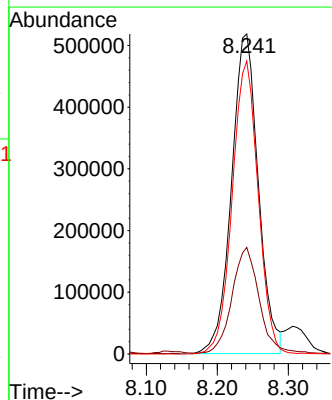
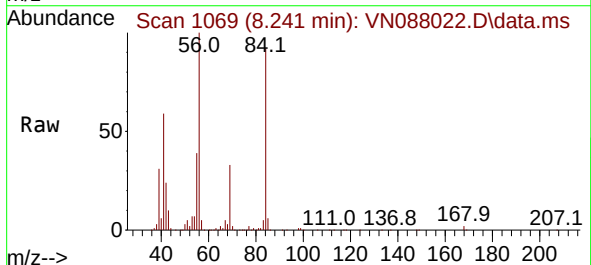
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ClientSampleId :
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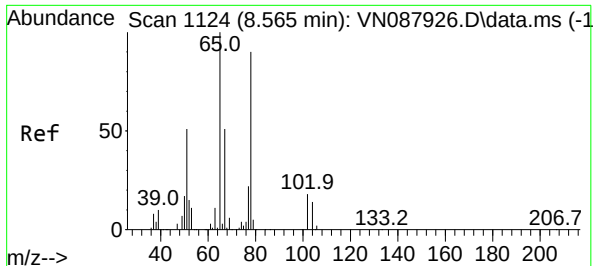
Tgt Ion: 43 Resp: 15223
Ion Ratio Lower Upper
43 100
72 17.2 21.5 32.3#



#31
Cyclohexane
Concen: 263.431 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion: 56 Resp: 1363619
Ion Ratio Lower Upper
56 100
69 32.7 23.4 35.0
84 91.7 70.8 106.2

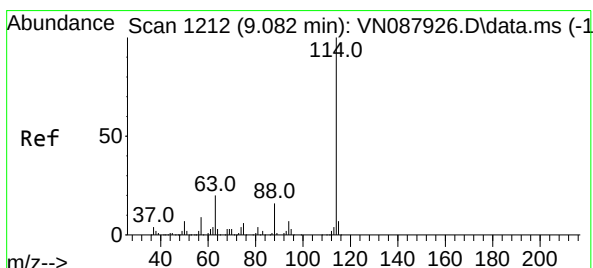
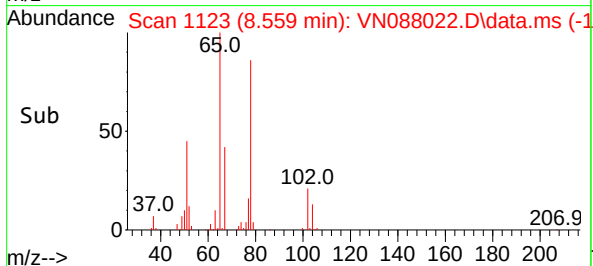
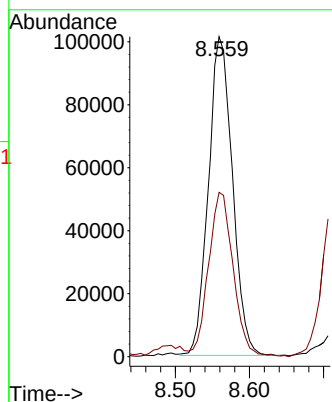
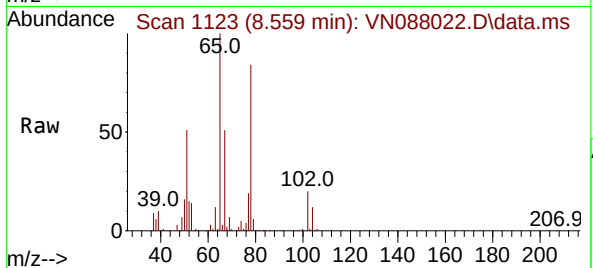




#33
1,2-Dichloroethane-d4
Concen: 49.406 ug/l
RT: 8.559 min Scan# 1124
Delta R.T. -0.006 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

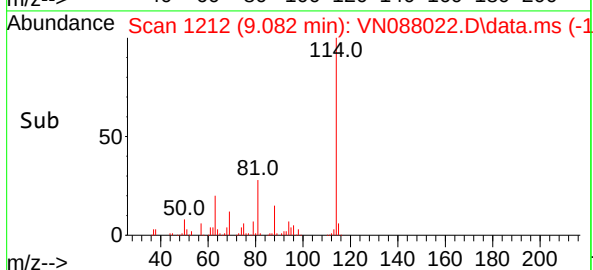
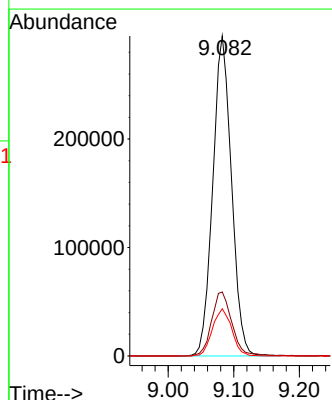
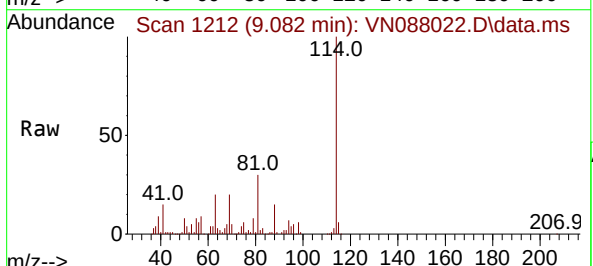
Instrument :
MSVOA_N
ClientSampleId :
MW5

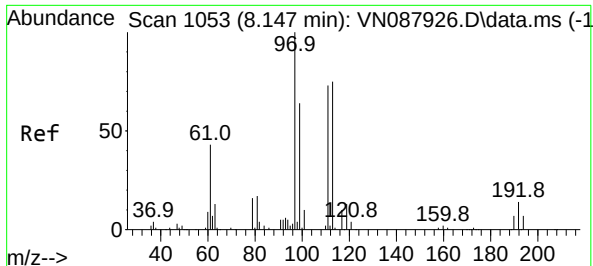
Tgt Ion: 65 Resp: 228064
Ion Ratio Lower Upper
65 100
67 52.9 0.0 103.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion:114 Resp: 584137
Ion Ratio Lower Upper
114 100
63 20.0 0.0 40.0
88 14.8 0.0 31.8





#35

Dibromofluoromethane

Concen: 43.250 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VN088022.D

Acq: 03 Oct 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

MW5

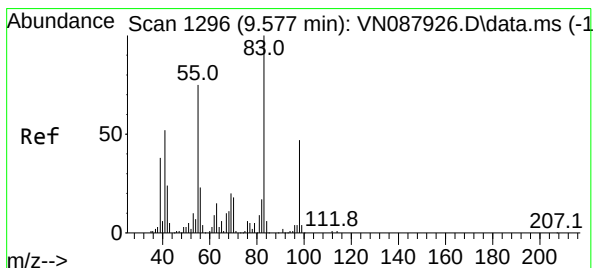
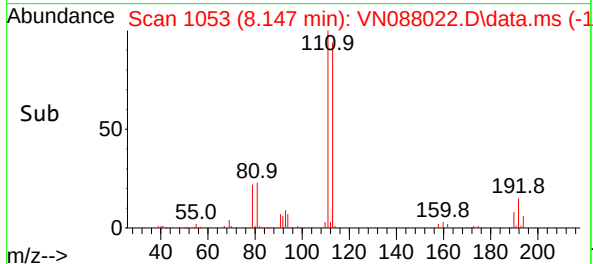
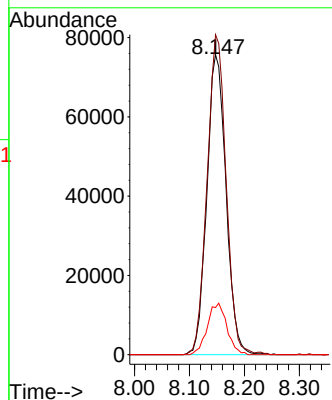
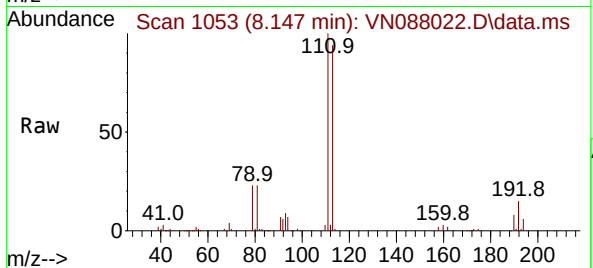
Tgt Ion:113 Resp: 183432

Ion Ratio Lower Upper

113 100

111 106.0 82.2 123.2

192 17.5 14.2 21.2



#39

Methylcyclohexane

Concen: 219.900 ug/l

RT: 9.582 min Scan# 1297

Delta R.T. 0.006 min

Lab File: VN088022.D

Acq: 03 Oct 2025 14:38

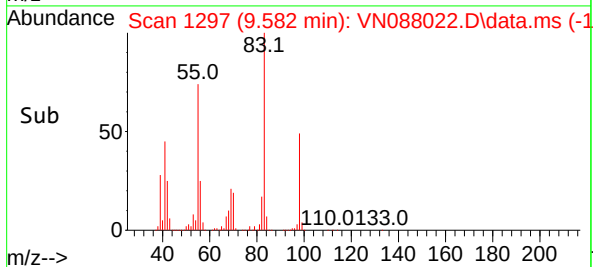
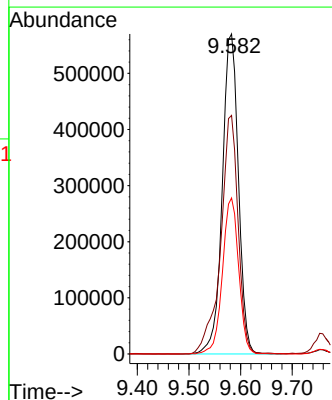
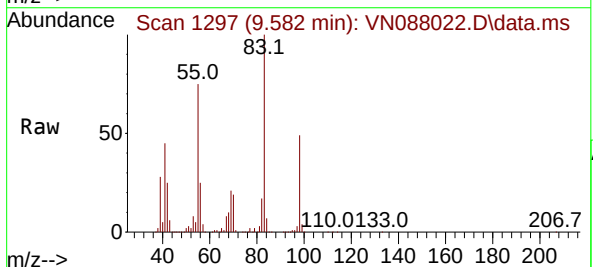
Tgt Ion: 83 Resp: 1237115

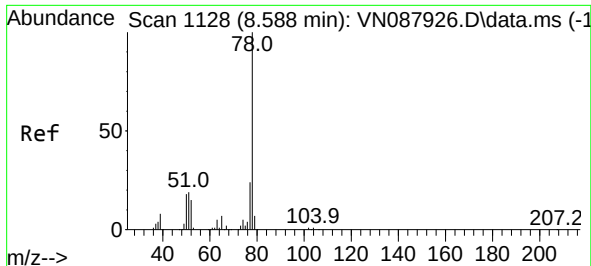
Ion Ratio Lower Upper

83 100

55 74.6 59.9 89.9

98 48.7 37.4 56.2

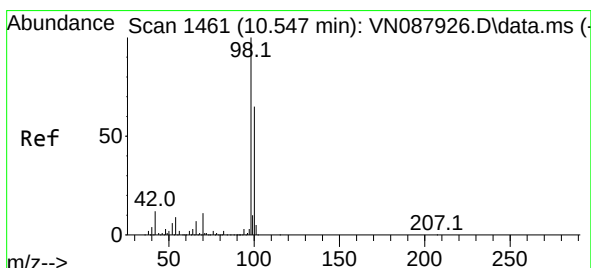
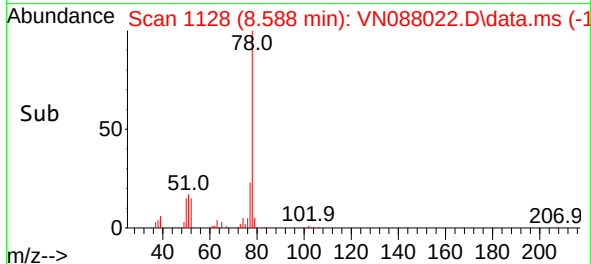
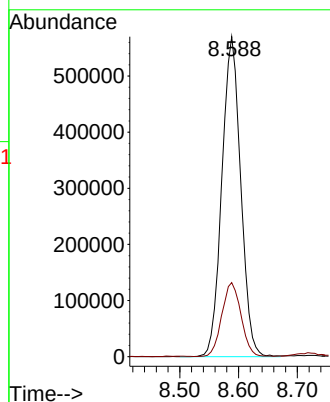
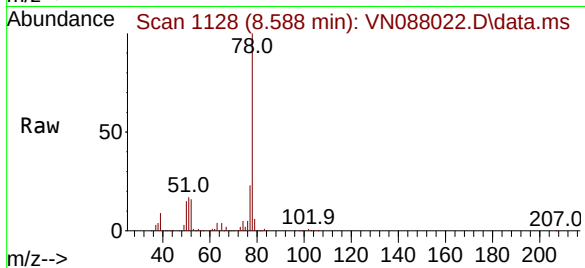




#40
Benzene
Concen: 75.065 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

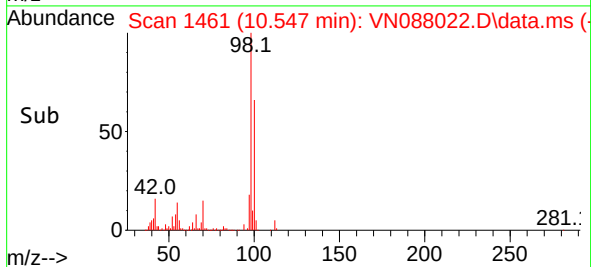
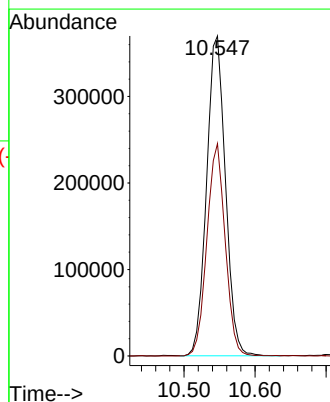
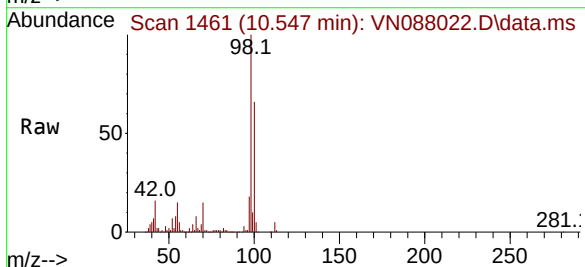
Instrument :
MSVOA_N
ClientSampleId :
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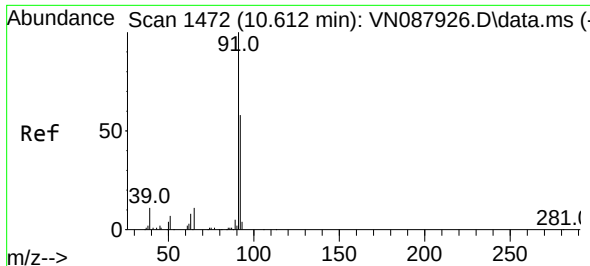
Tgt Ion: 78 Resp: 1267518
Ion Ratio Lower Upper
78 100
77 23.0 19.0 28.6



#50
Toluene-d8
Concen: 45.782 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion: 98 Resp: 682810
Ion Ratio Lower Upper
98 100
100 64.4 51.7 77.5

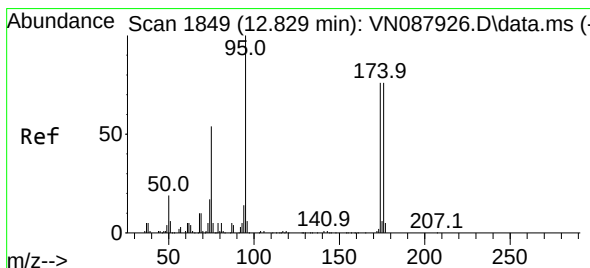
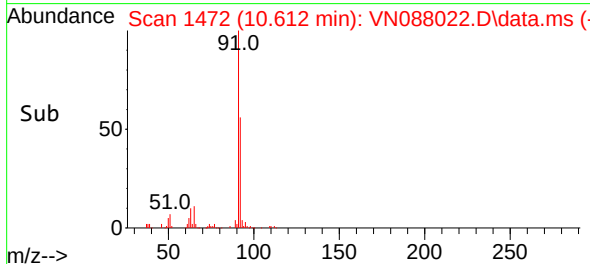
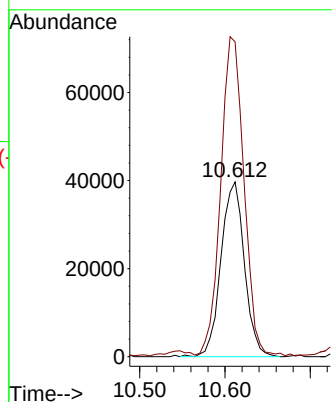
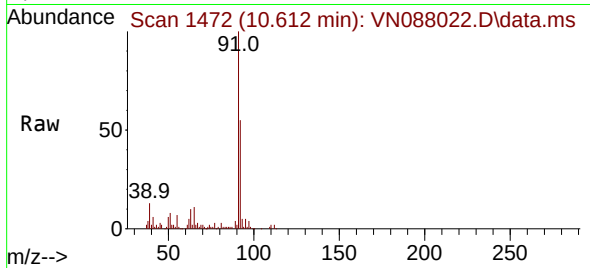




#52
Toluene
Concen: 7.138 ug/l
RT: 10.612 min Scan# 1472
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

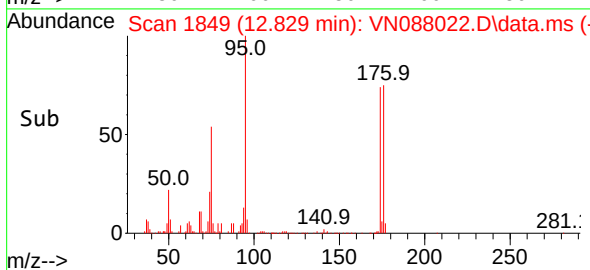
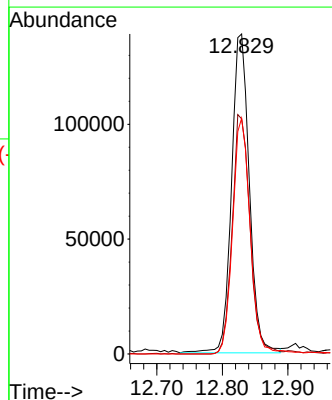
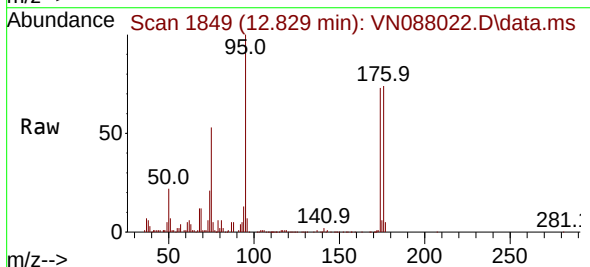
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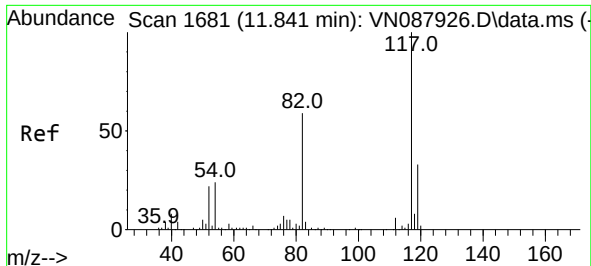
Tgt Ion: 92 Resp: 75631
Ion Ratio Lower Upper
92 100
91 181.9 138.2 207.2



#62
4-Bromofluorobenzene
Concen: 49.143 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion: 95 Resp: 261988
Ion Ratio Lower Upper
95 100
174 74.8 0.0 159.2
176 73.2 0.0 152.6

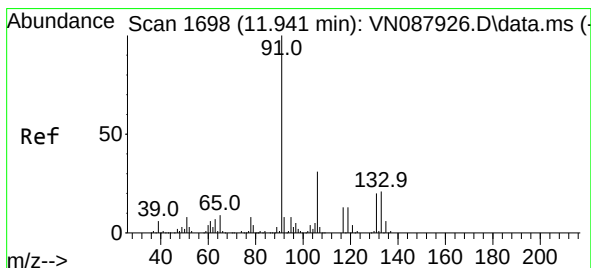
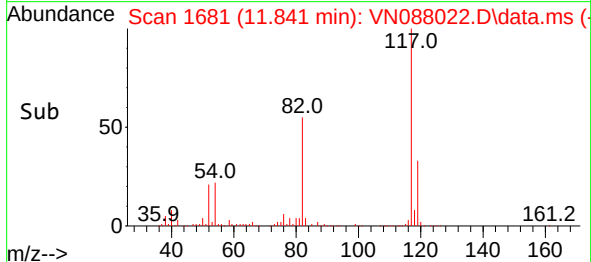
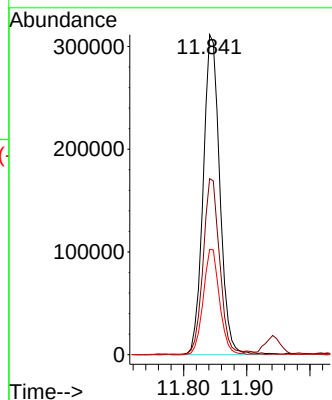
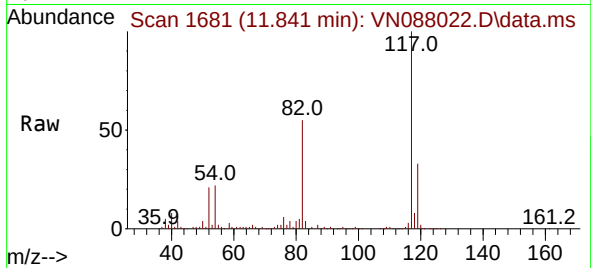




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

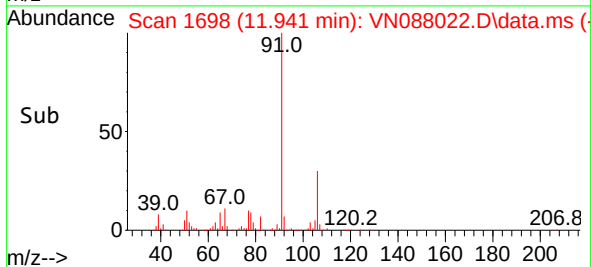
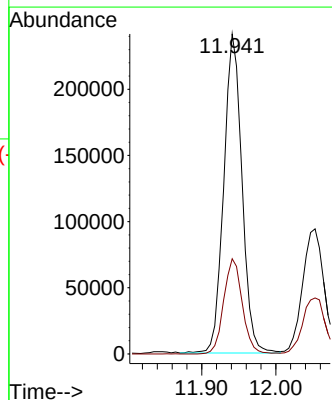
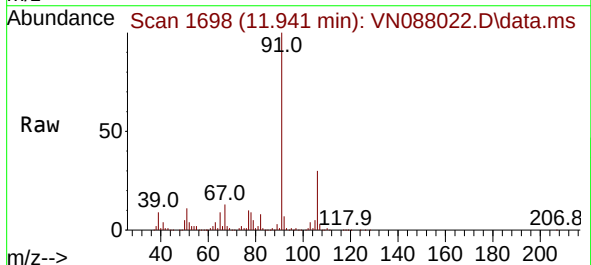
Instrument :
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ClientSampleId :
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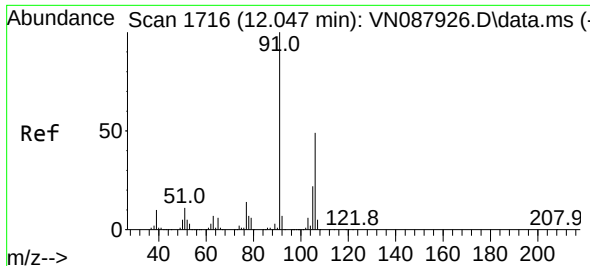
Tgt Ion:117 Resp: 570238
Ion Ratio Lower Upper
117 100
82 54.9 47.0 70.4
119 32.9 26.1 39.1



#67
Ethyl Benzene
Concen: 20.309 ug/l
RT: 11.941 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion: 91 Resp: 411229
Ion Ratio Lower Upper
91 100
106 29.8 25.2 37.8

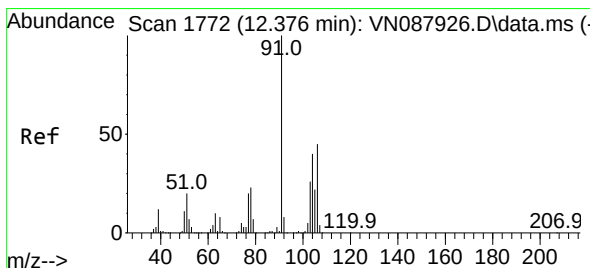
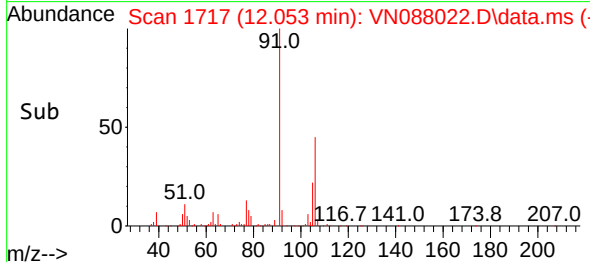
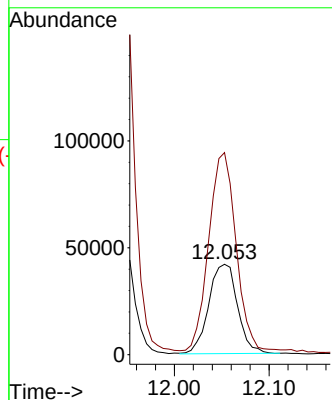
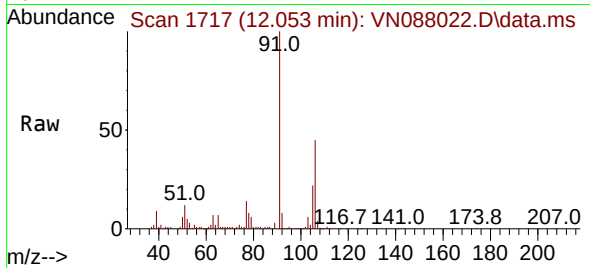




#68
m/p-Xylenes
Concen: 11.368 ug/l
RT: 12.053 min Scan# 1717
Delta R.T. 0.006 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

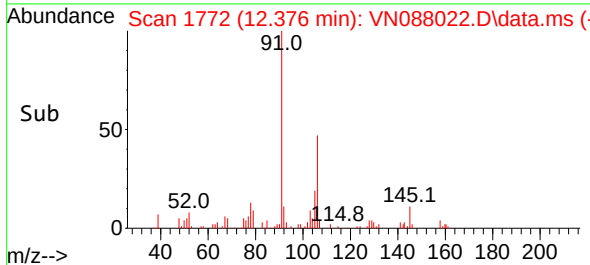
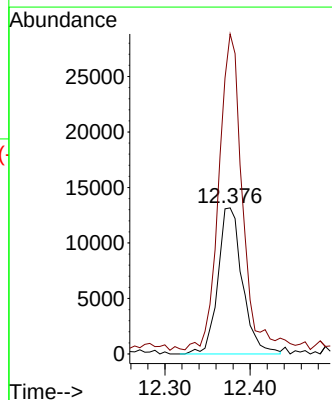
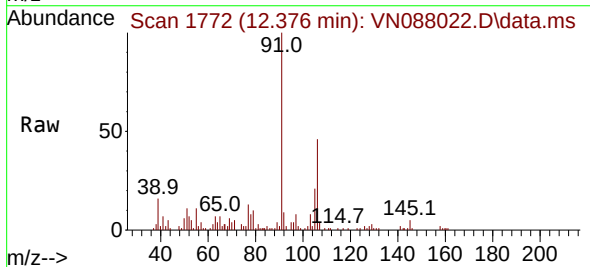
Instrument :
MSVOA_N
ClientSampleId :
MW5

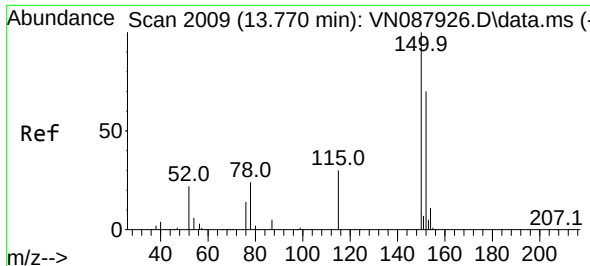
Tgt Ion:106 Resp: 88034
Ion Ratio Lower Upper
106 100
91 217.7 162.9 244.3



#69
o-Xylene
Concen: 3.522 ug/l
RT: 12.376 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion:106 Resp: 26208
Ion Ratio Lower Upper
106 100
91 208.0 108.2 324.6

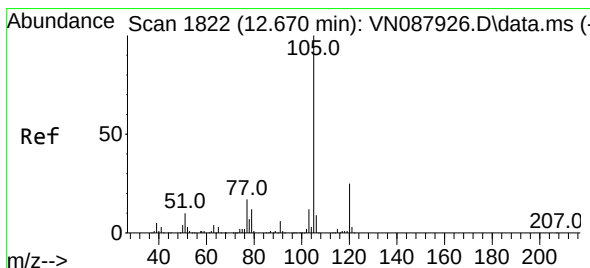
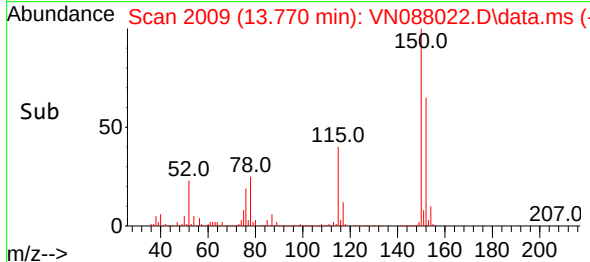
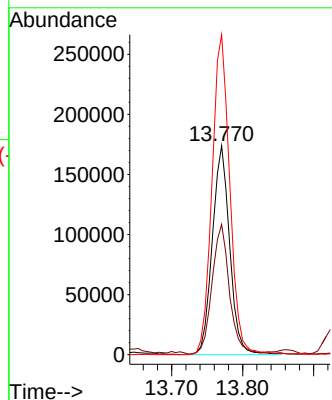
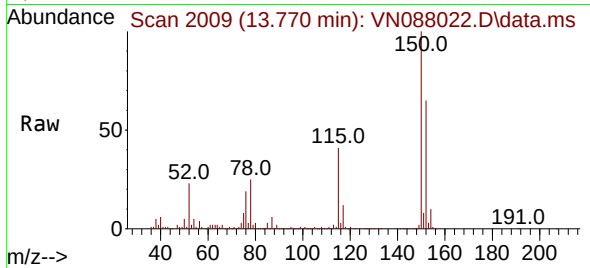




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

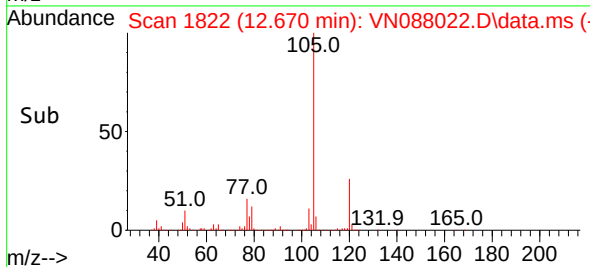
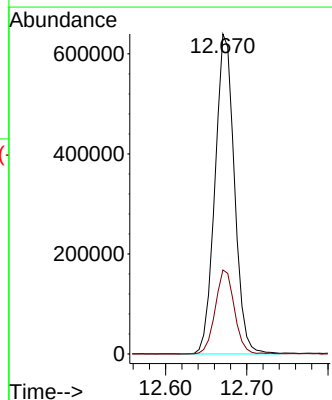
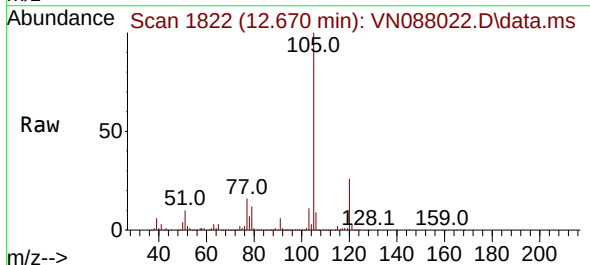
Instrument :
MSVOA_N
ClientSampleId :
MW5

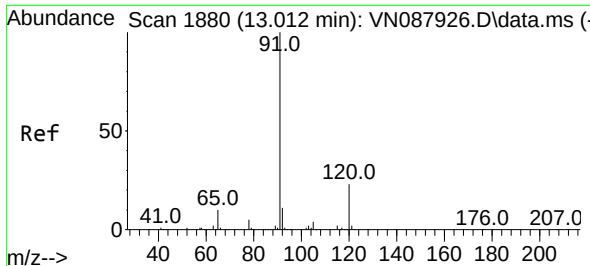
Tgt Ion:152 Resp: 295091
Ion Ratio Lower Upper
152 100
115 61.8 29.9 89.7
150 157.1 0.0 335.0



#73
Isopropylbenzene
Concen: 58.028 ug/l
RT: 12.670 min Scan# 1822
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion:105 Resp: 1061275
Ion Ratio Lower Upper
105 100
120 26.0 13.1 39.1

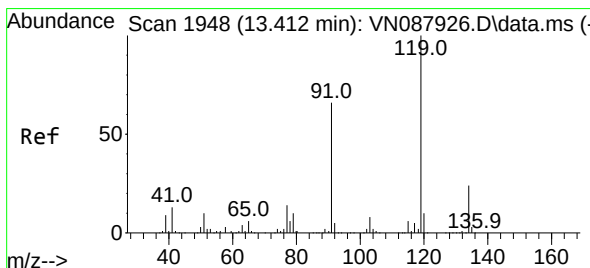
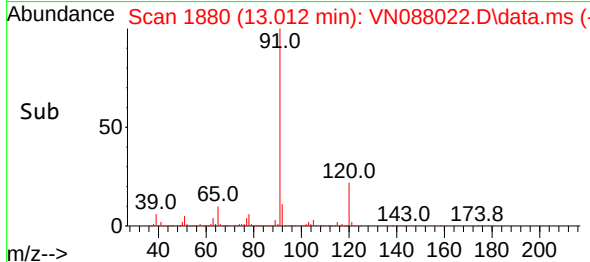
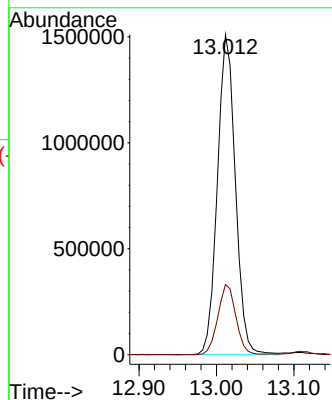
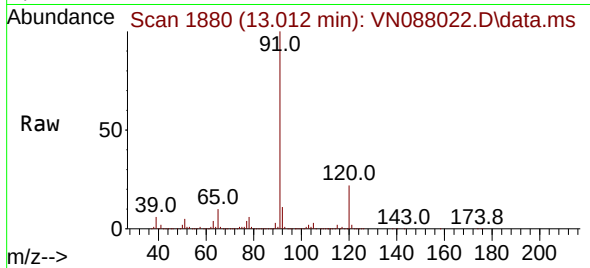




#78
n-propylbenzene
Concen: 106.383 ug/l
RT: 13.012 min Scan# 1880
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

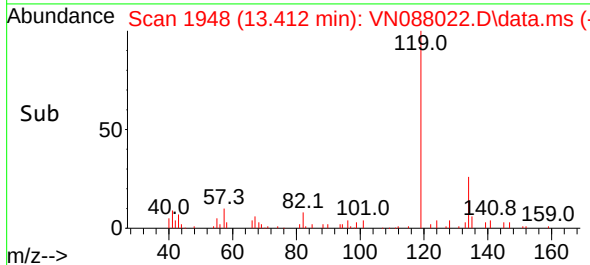
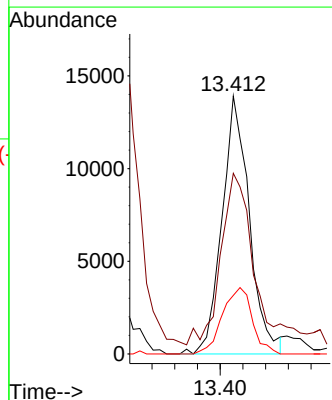
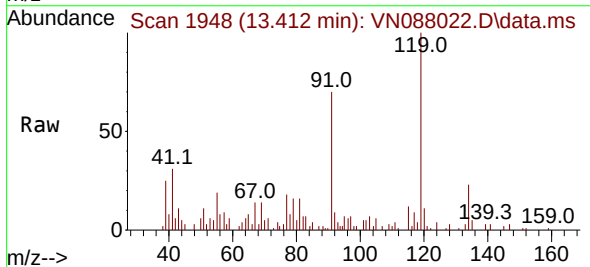
Instrument :
MSVOA_N
ClientSampleId :
MW5

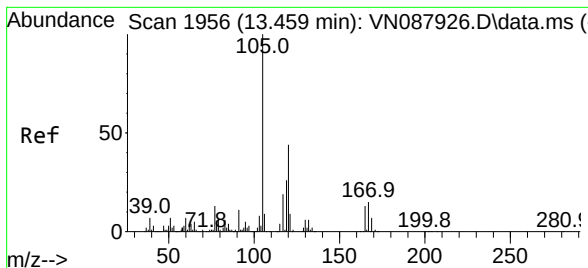
Tgt Ion: 91 Resp: 2432561
Ion Ratio Lower Upper
91 100
120 22.0 11.1 33.1



#83
tert-Butylbenzene
Concen: 1.734 ug/l
RT: 13.412 min Scan# 1948
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion: 119 Resp: 23219
Ion Ratio Lower Upper
119 100
91 83.4 32.1 96.3
134 28.1 12.3 36.8





#84

1,2,4-Trimethylbenzene

Concen: 0.691 ug/l

RT: 13.459 min Scan# 1956

Delta R.T. 0.000 min

Lab File: VN088022.D

Acq: 03 Oct 2025 14:38

Instrument :

MSVOA_N

ClientSampleId :

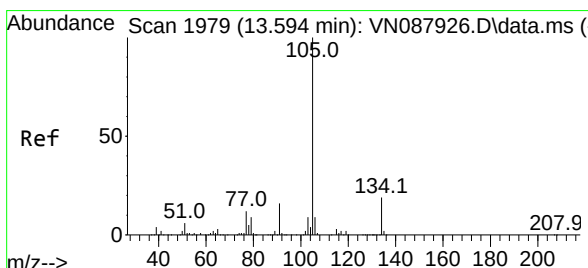
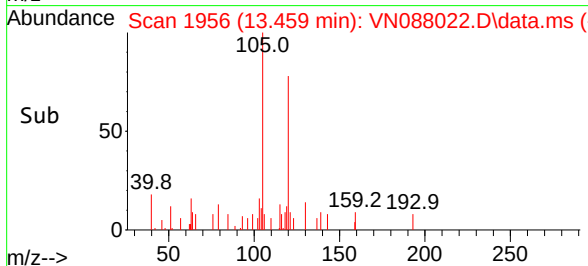
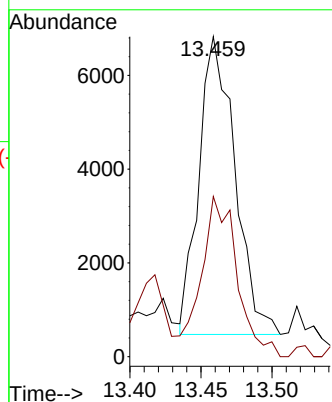
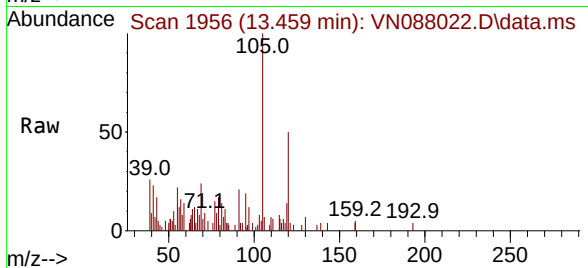
MW5

Tgt Ion:105 Resp: 11207

Ion Ratio Lower Upper

105 100

120 52.7 22.4 67.3



#85

sec-Butylbenzene

Concen: 10.349 ug/l

RT: 13.594 min Scan# 1979

Delta R.T. 0.000 min

Lab File: VN088022.D

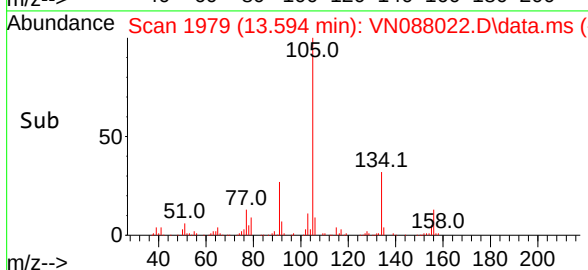
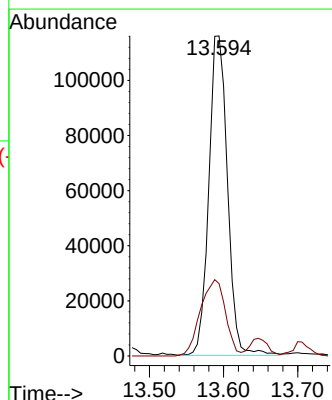
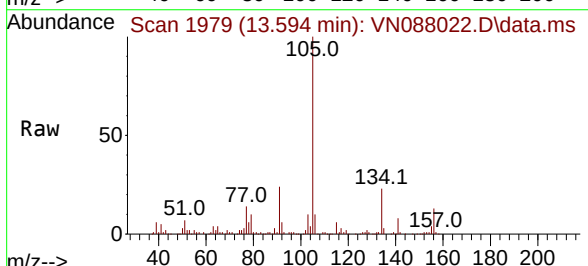
Acq: 03 Oct 2025 14:38

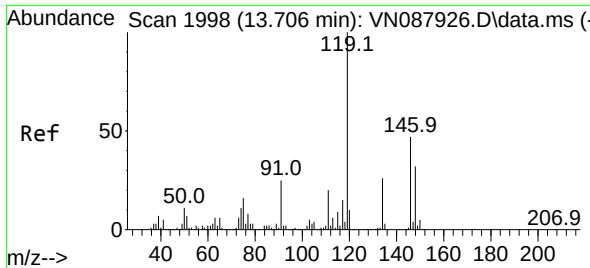
Tgt Ion:105 Resp: 203166

Ion Ratio Lower Upper

105 100

134 32.0 9.6 28.8#

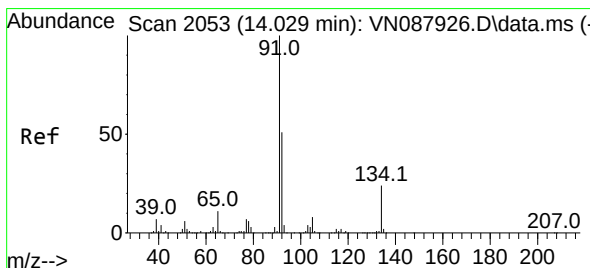
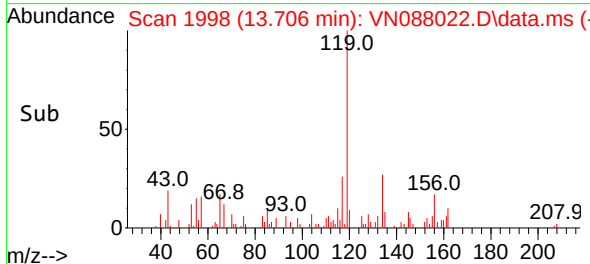
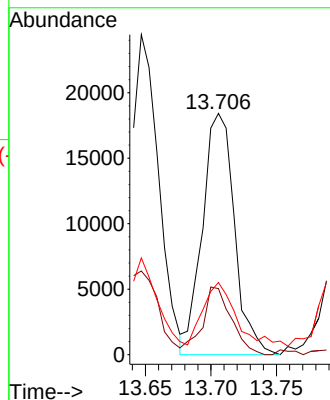
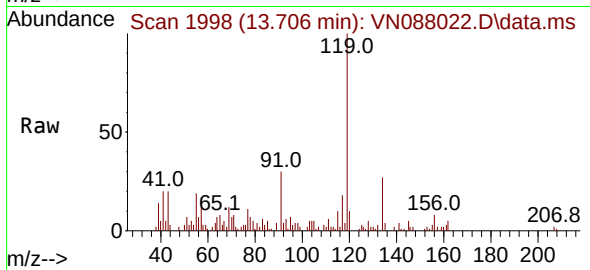




#86
p-Isopropyltoluene
Concen: 1.885 ug/l
RT: 13.706 min Scan# 1998
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Instrument :
MSVOA_N
ClientSampleId :
MW5

Tgt Ion:119 Resp: 31335
Ion Ratio Lower Upper
119 100
134 25.4 13.1 39.3
91 27.0 11.9 35.5



#89
n-Butylbenzene
Concen: 15.568 ug/l
RT: 14.029 min Scan# 2053
Delta R.T. 0.000 min
Lab File: VN088022.D
Acq: 03 Oct 2025 14:38

Tgt Ion: 91 Resp: 244616
Ion Ratio Lower Upper
91 100
92 45.0 25.9 77.8
134 0.0 12.6 37.8#

