

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN103125\  
 Data File : VN088190.D  
 Acq On : 31 Oct 2025 15:44  
 Operator : JC\MD  
 Sample : Q3503-01  
 Misc : 1.16g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 322

Quant Time: Nov 01 00:35:40 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      | 8.200  | 168  | 259977   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.077  | 114  | 588015   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.841 | 117  | 529963   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.770 | 152  | 258205   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |            |      |
|-----------------------------|--------|-------|----------|----------|------------|------|
| System Monitoring Compounds |        |       |          |          |            |      |
| 33) 1,2-Dichloroethane-d4   | 8.553  | 65    | 269581   | 59.966   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 119.940% |      |
| 35) Dibromofluoromethane    | 8.147  | 113   | 197517   | 50.000   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 100.000% |      |
| 50) Toluene-d8              | 10.541 | 98    | 764548   | 50.229   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 100.460% |      |
| 62) 4-Bromofluorobenzene    | 12.829 | 95    | 268898   | 50.022   | ug/l       | 0.00 |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | = 100.040% |      |

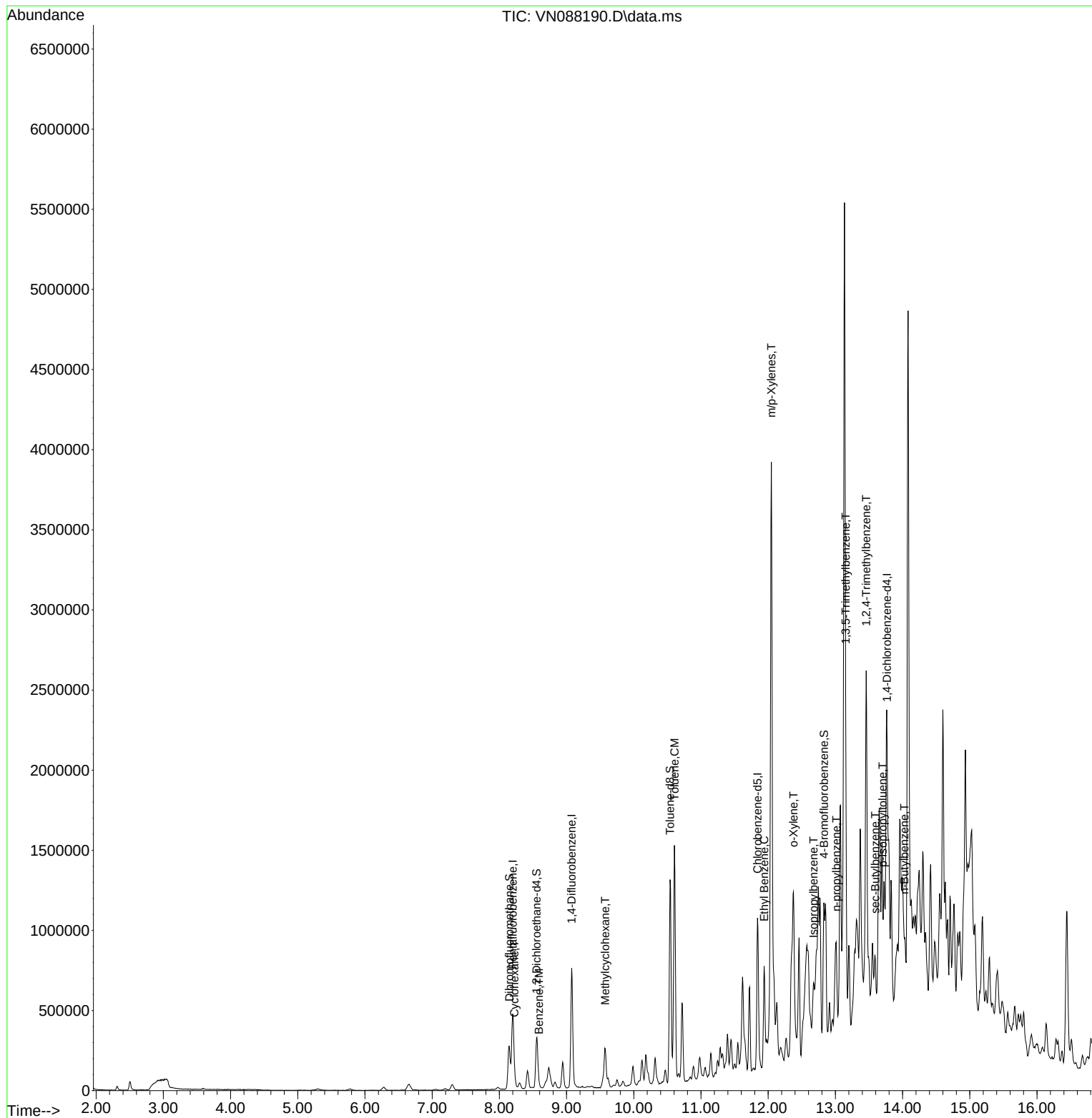
|                            |        |     |         |        |           |
|----------------------------|--------|-----|---------|--------|-----------|
| Target Compounds           |        |     |         |        | Qvalue    |
| 31) Cyclohexane            | 8.224  | 56  | 22432m  | 3.565  | ug/l      |
| 39) Methylcyclohexane      | 9.577  | 83  | 92160   | 12.431 | ug/l 97   |
| 40) Benzene                | 8.588  | 78  | 22324   | 1.271  | ug/l 99   |
| 52) Toluene                | 10.606 | 92  | 621831  | 57.416 | ug/l 97   |
| 67) Ethyl Benzene          | 11.941 | 91  | 443755  | 21.008 | ug/l 100  |
| 68) m/p-Xylenes            | 12.047 | 106 | 539253  | 68.135 | ug/l 100  |
| 69) o-Xylene               | 12.376 | 106 | 234765  | 31.291 | ug/l 97   |
| 73) Isopropylbenzene       | 12.676 | 105 | 91802   | 4.610  | ug/l 99   |
| 78) n-propylbenzene        | 13.018 | 91  | 330042  | 13.580 | ug/l 98   |
| 80) 1,3,5-Trimethylbenzene | 13.153 | 105 | 322606  | 19.505 | ug/l 99   |
| 84) 1,2,4-Trimethylbenzene | 13.459 | 105 | 1270168 | 76.758 | ug/l 99   |
| 85) sec-Butylbenzene       | 13.594 | 105 | 115492  | 5.321  | ug/l 82   |
| 86) p-Isopropyltoluene     | 13.706 | 119 | 80687   | 4.634  | ug/l 92   |
| 89) n-Butylbenzene         | 14.029 | 91  | 177865  | 10.312 | ug/l # 80 |

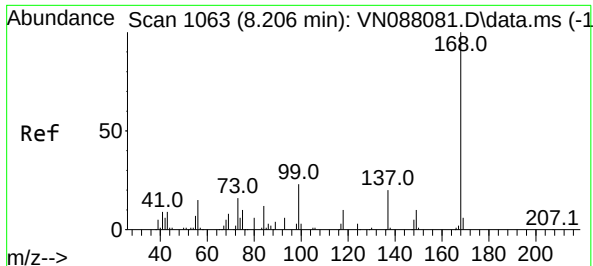
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN103125\  
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Instrument :  
MSVOA\_N  
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Quant Time: Nov 01 00:35:40 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

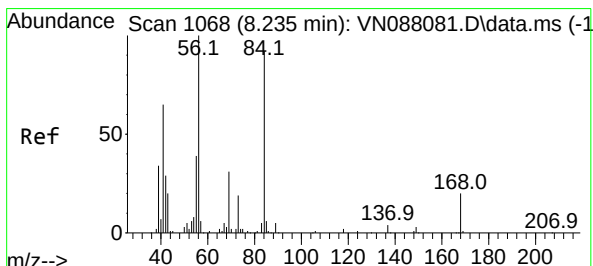
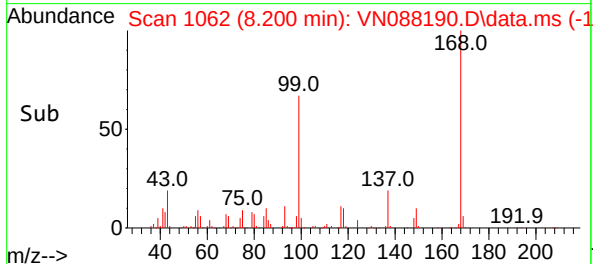
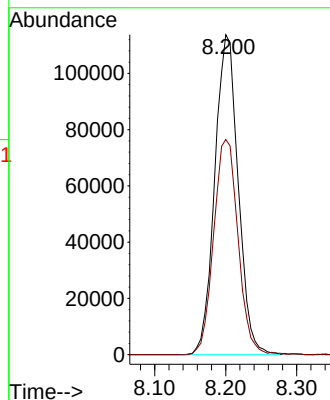
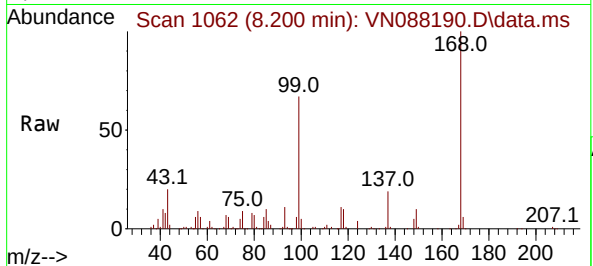




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.200 min Scan# 1066  
Delta R.T. -0.006 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

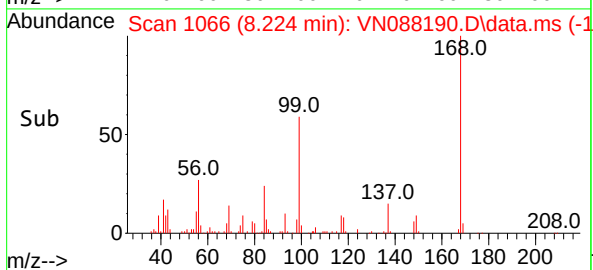
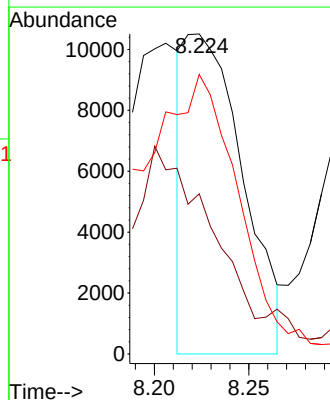
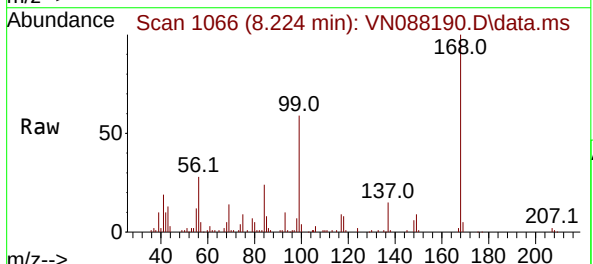
Instrument :  
MSVOA\_N  
ClientSampleId :  
322

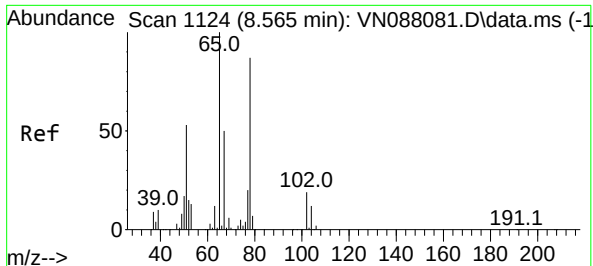
Tgt Ion:168 Resp: 259977  
Ion Ratio Lower Upper  
168 100  
99 67.3 57.2 85.8



#31  
Cyclohexane  
Concen: 3.565 ug/l m  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.012 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

Tgt Ion: 56 Resp: 22432  
Ion Ratio Lower Upper  
56 100  
69 50.1 23.7 35.5#  
84 87.4 64.7 97.1





#33

1,2-Dichloroethane-d4

Concen: 59.966 ug/l

RT: 8.553 min Scan# 1122

Delta R.T. -0.006 min

Lab File: VN088190.D

Acq: 31 Oct 2025 15:44

Instrument :

MSVOA\_N

ClientSampleId :

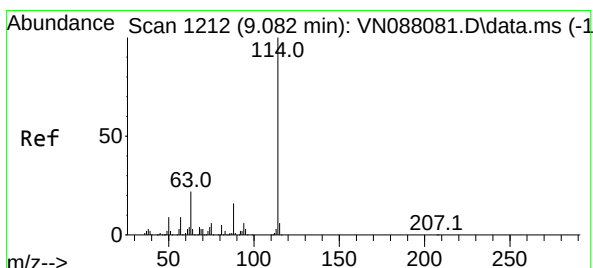
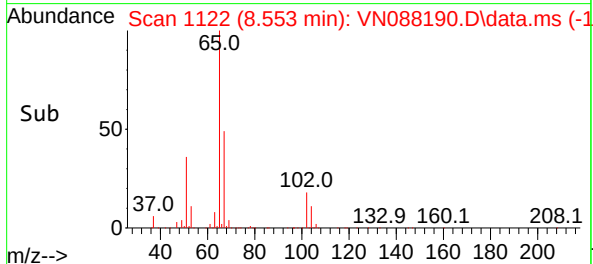
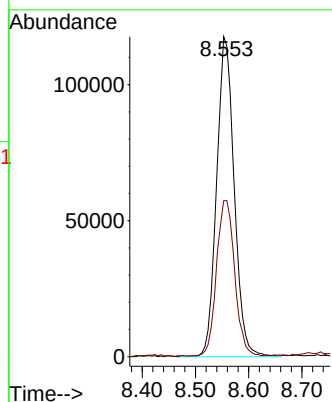
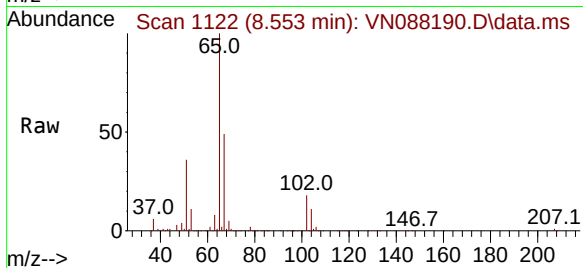
322

Tgt Ion: 65 Resp: 269581

Ion Ratio Lower Upper

65 100

67 50.2 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: VN088190.D

Acq: 31 Oct 2025 15:44

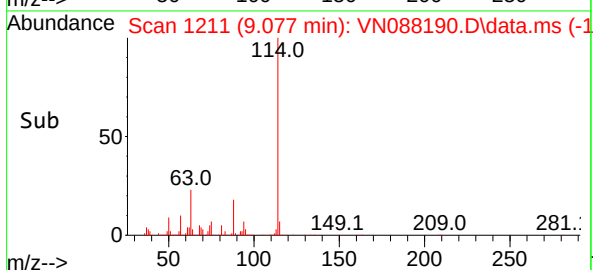
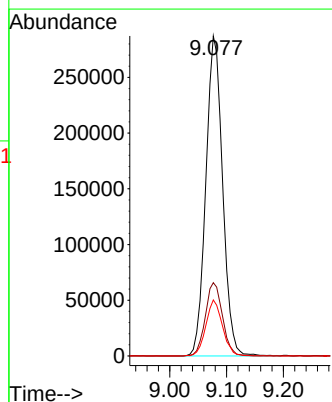
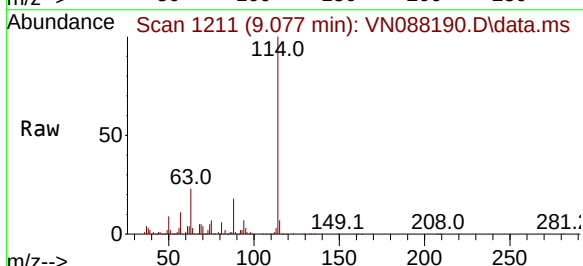
Tgt Ion: 114 Resp: 588015

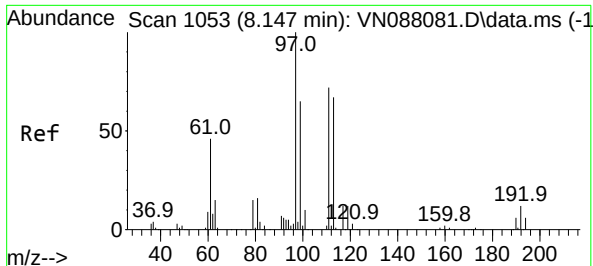
Ion Ratio Lower Upper

114 100

63 22.9 0.0 45.2

88 17.5 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 8.147 min Scan# 110

Delta R.T. -0.006 min

Lab File: VN088190.D

Acq: 31 Oct 2025 15:44

Instrument :

MSVOA\_N

ClientSampleId :

322

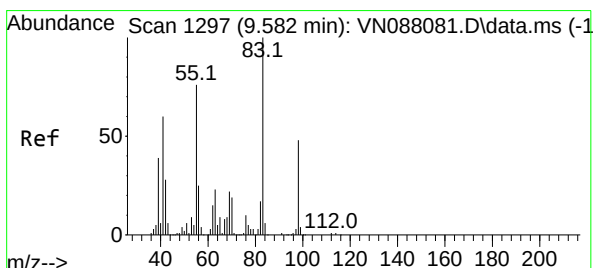
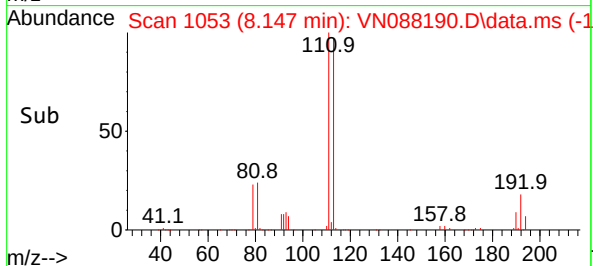
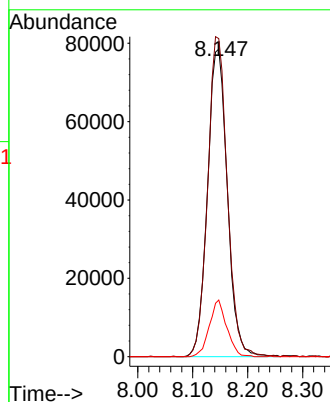
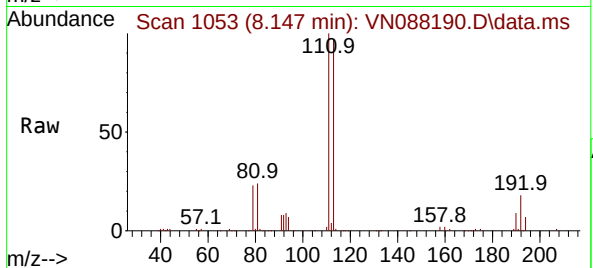
Tgt Ion:113 Resp: 197517

Ion Ratio Lower Upper

113 100

111 102.5 82.8 124.2

192 16.2 12.8 19.2



#39

Methylcyclohexane

Concen: 12.431 ug/l

RT: 9.577 min Scan# 1296

Delta R.T. -0.006 min

Lab File: VN088190.D

Acq: 31 Oct 2025 15:44

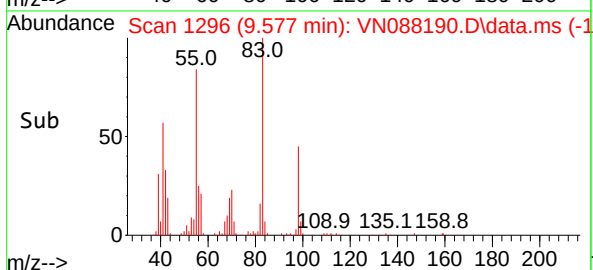
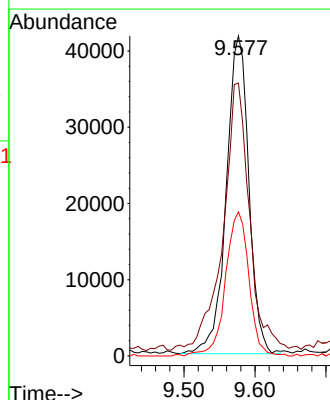
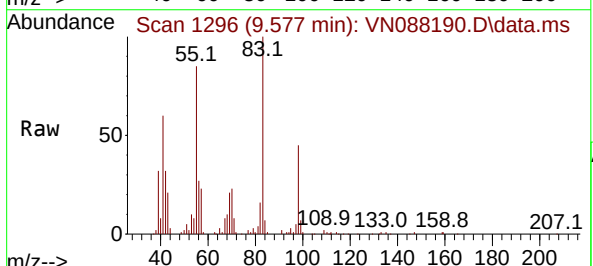
Tgt Ion: 83 Resp: 92160

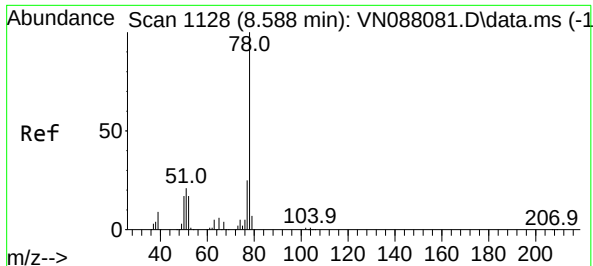
Ion Ratio Lower Upper

83 100

55 82.5 64.6 96.8

98 44.9 38.4 57.6

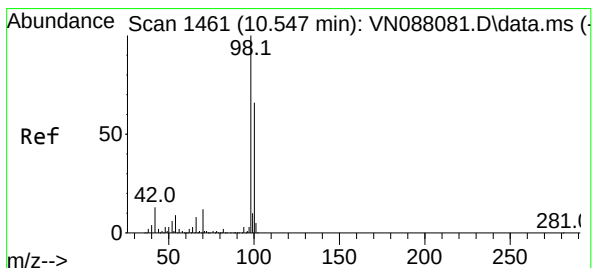
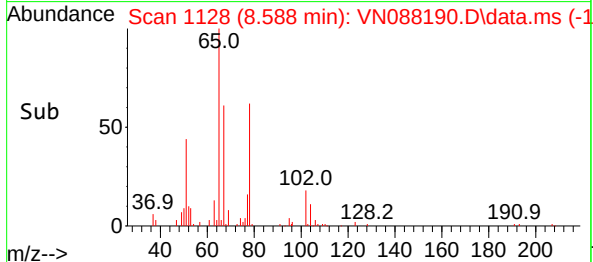
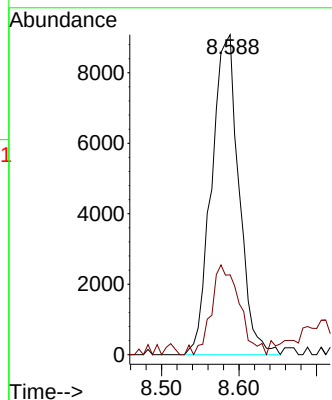
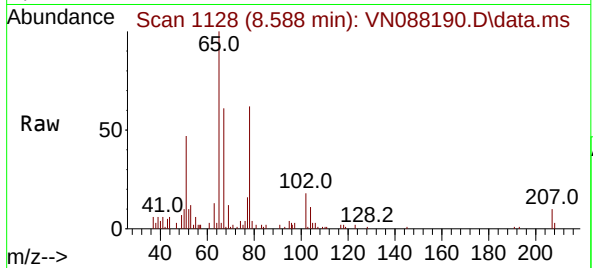




#40  
Benzene  
Concen: 1.271 ug/l  
RT: 8.588 min Scan# 1128  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

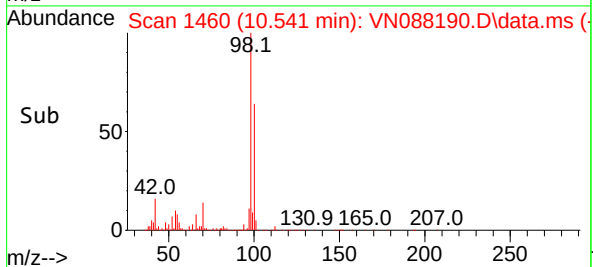
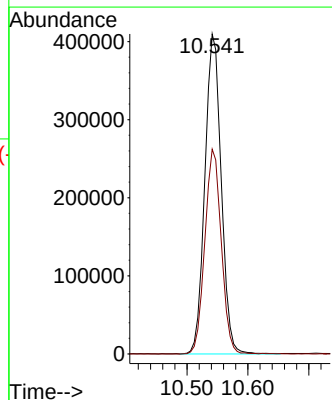
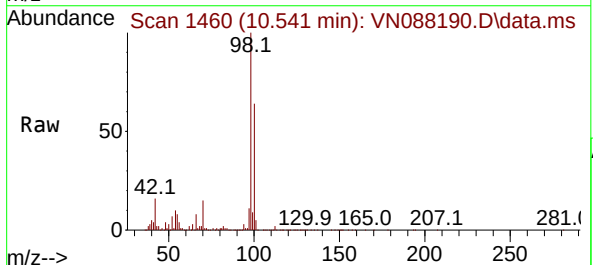
Instrument :  
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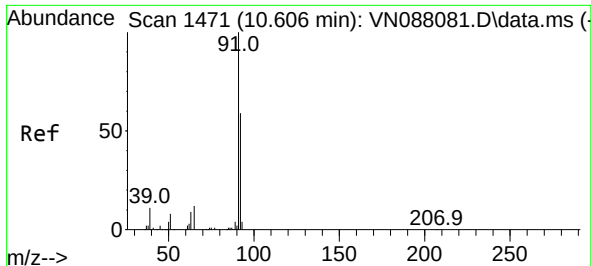
Tgt Ion: 78 Resp: 22324  
Ion Ratio Lower Upper  
78 100  
77 25.0 19.7 29.5



#50  
Toluene-d8  
Concen: 50.229 ug/l  
RT: 10.541 min Scan# 1460  
Delta R.T. -0.006 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

Tgt Ion: 98 Resp: 764548  
Ion Ratio Lower Upper  
98 100  
100 64.1 52.8 79.2

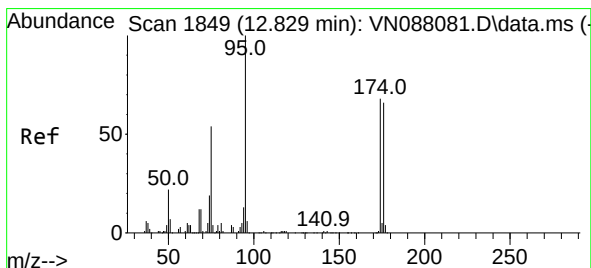
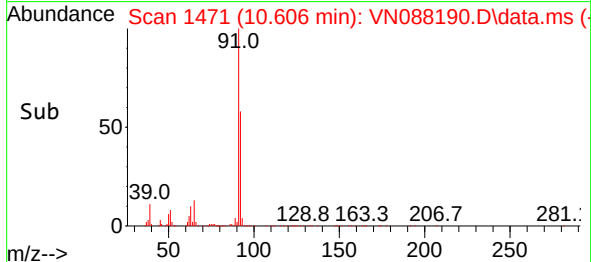
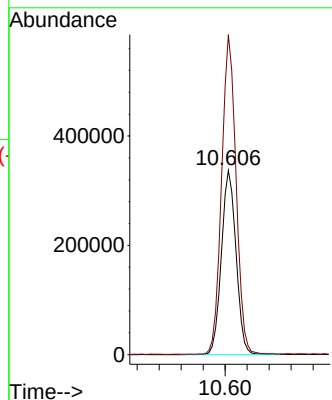
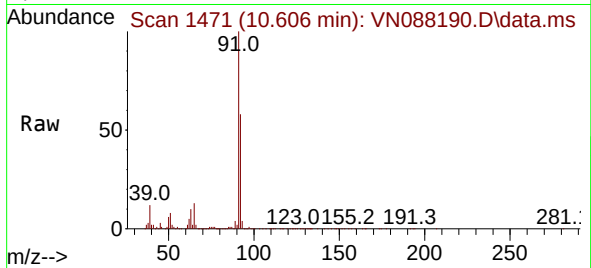




#52  
Toluene  
Concen: 57.416 ug/l  
RT: 10.606 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

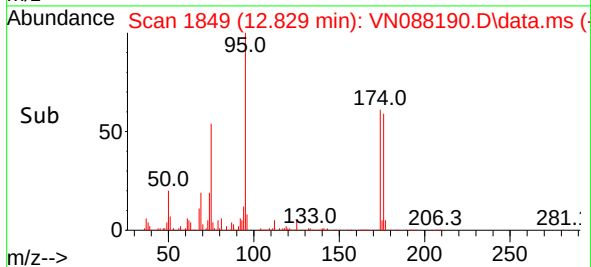
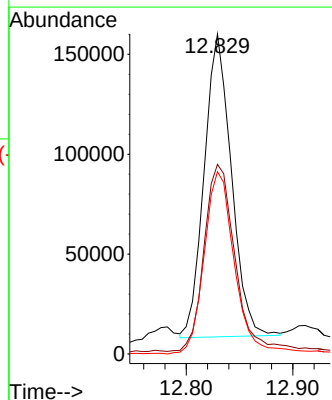
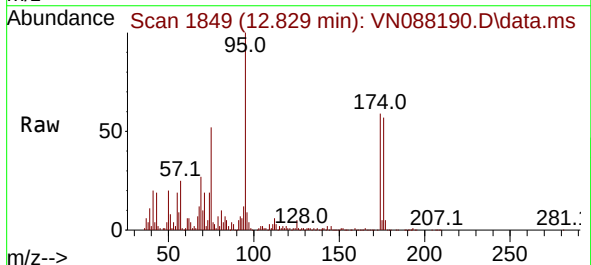
Instrument :  
MSVOA\_N  
ClientSampleId :  
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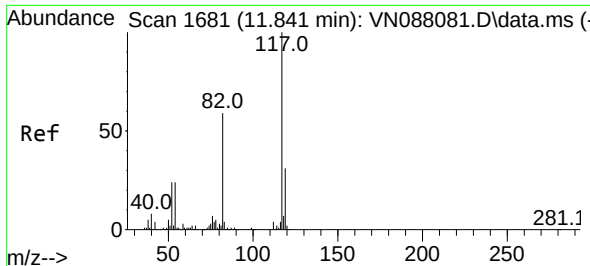
Tgt Ion: 92 Resp: 621831  
Ion Ratio Lower Upper  
92 100  
91 171.4 140.4 210.6



#62  
4-Bromofluorobenzene  
Concen: 50.022 ug/l  
RT: 12.829 min Scan# 1849  
Delta R.T. 0.006 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

Tgt Ion: 95 Resp: 268898  
Ion Ratio Lower Upper  
95 100  
174 71.0 0.0 138.4  
176 68.3 0.0 132.6

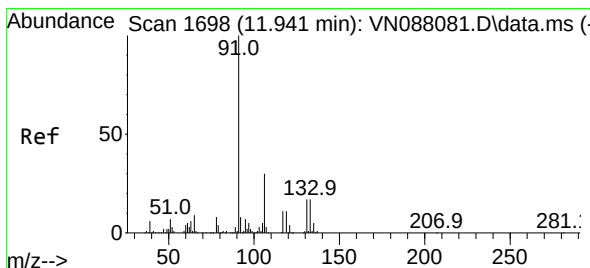
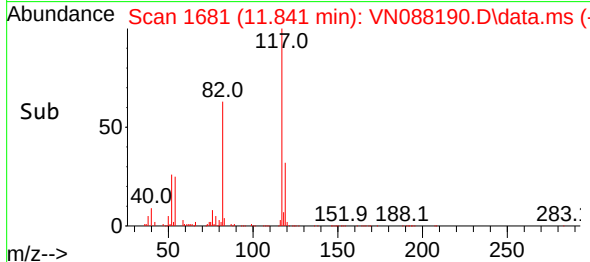
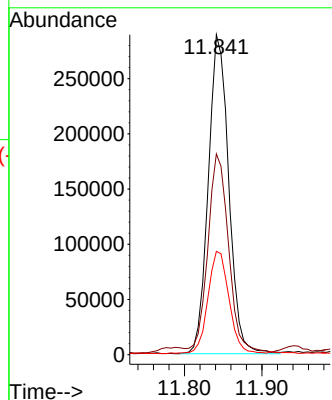
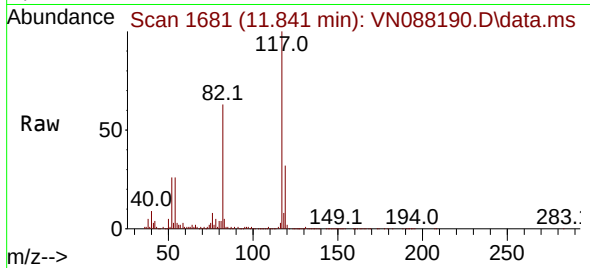




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.841 min Scan# 1681  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

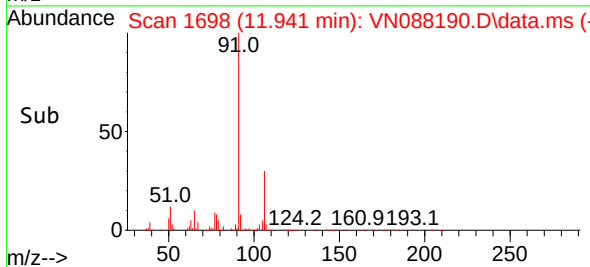
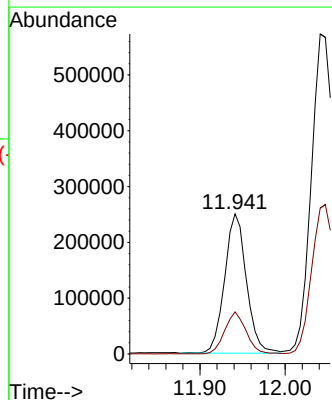
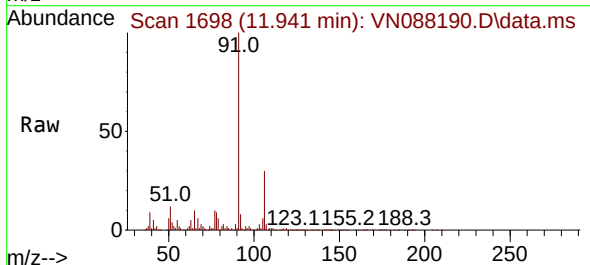
Instrument :  
MSVOA\_N  
ClientSampleId :  
322

Tgt Ion:117 Resp: 529963  
Ion Ratio Lower Upper  
117 100  
82 61.4 47.4 71.2  
119 31.8 24.3 36.5

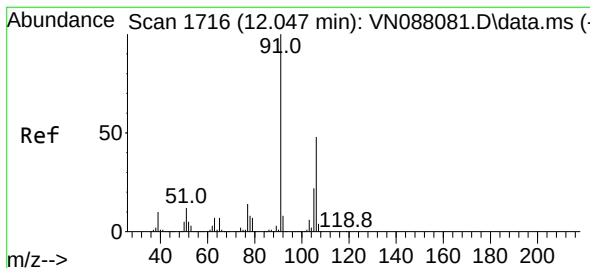


#67  
Ethyl Benzene  
Concen: 21.008 ug/l  
RT: 11.941 min Scan# 1698  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

Tgt Ion: 91 Resp: 443755  
Ion Ratio Lower Upper  
91 100  
106 30.1 24.1 36.1



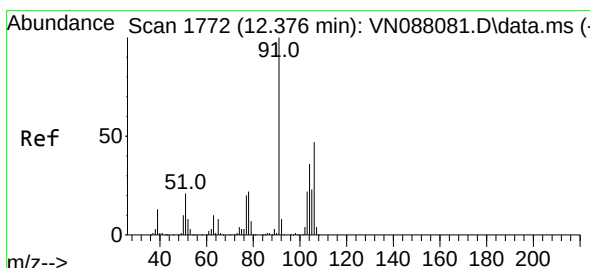
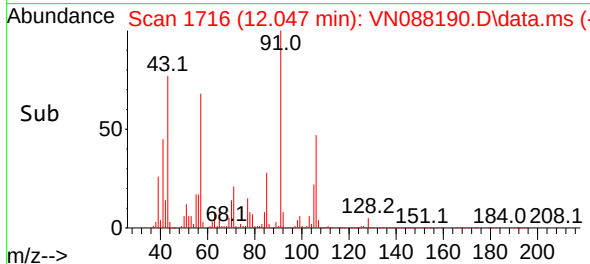
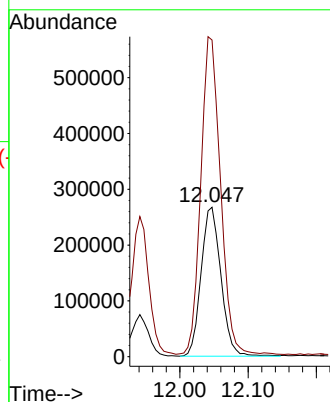
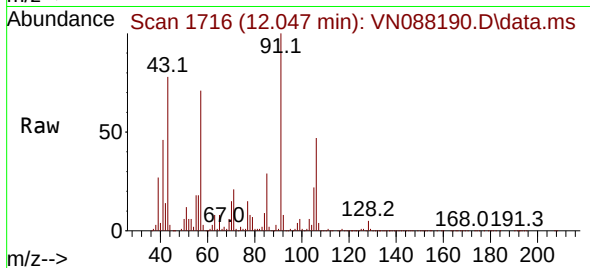




#68  
m/p-Xylenes  
Concen: 68.135 ug/l  
RT: 12.047 min Scan# 1716  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

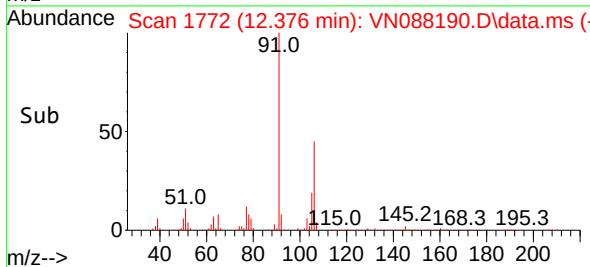
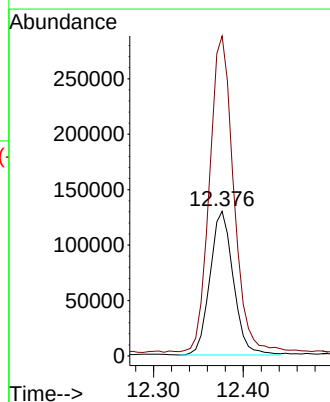
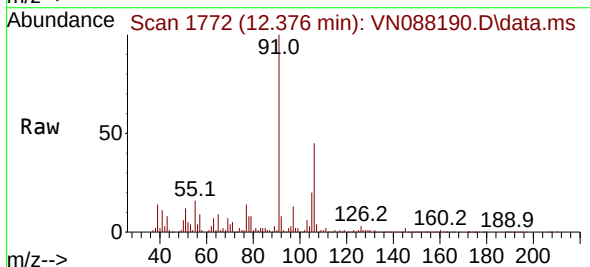
Instrument :  
MSVOA\_N  
ClientSampleId :  
322

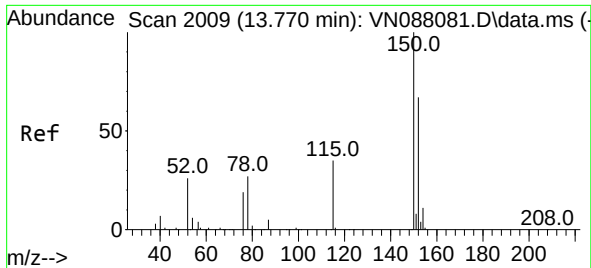
Tgt Ion:106 Resp: 539253  
Ion Ratio Lower Upper  
106 100  
91 210.9 169.3 253.9



#69  
o-Xylene  
Concen: 31.291 ug/l  
RT: 12.376 min Scan# 1772  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

Tgt Ion:106 Resp: 234765  
Ion Ratio Lower Upper  
106 100  
91 228.4 111.4 334.2

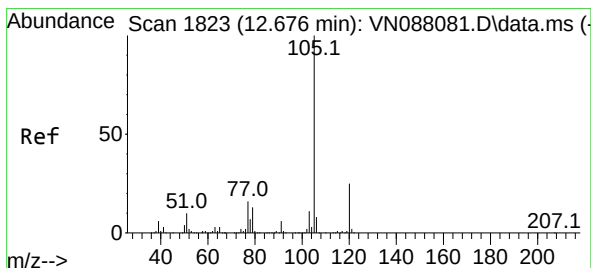
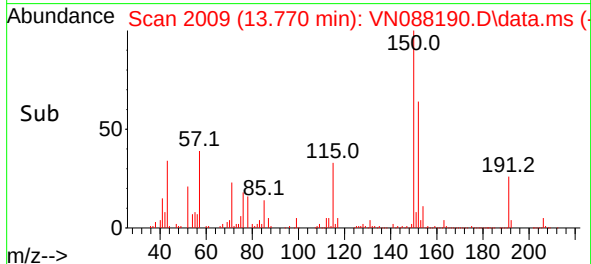
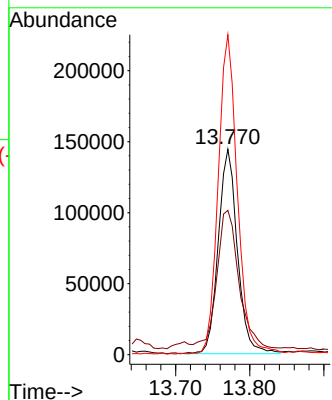
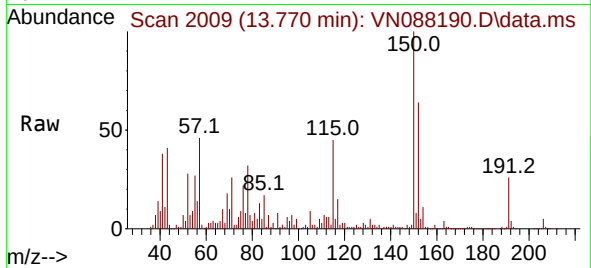




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.770 min Scan# 2009  
 Delta R.T. 0.006 min  
 Lab File: VN088190.D  
 Acq: 31 Oct 2025 15:44

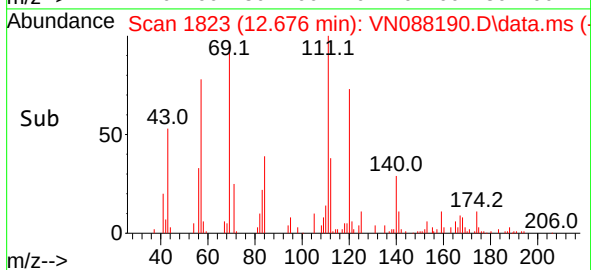
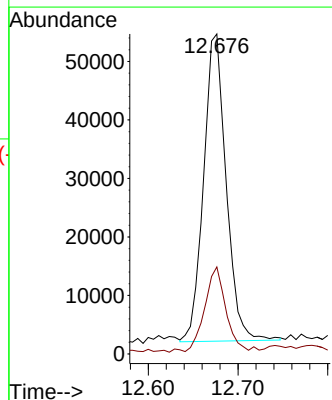
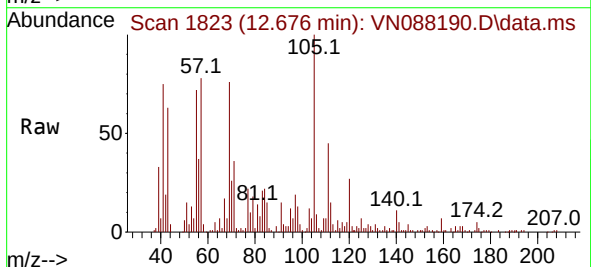
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 322

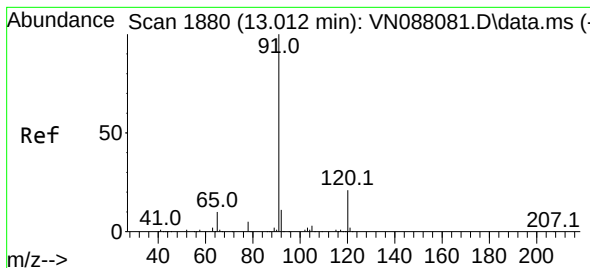
Tgt Ion:152 Resp: 258205  
 Ion Ratio Lower Upper  
 152 100  
 115 77.6 32.3 96.8  
 150 157.0 0.0 351.0



#73  
 Isopropylbenzene  
 Concen: 4.610 ug/l  
 RT: 12.676 min Scan# 1823  
 Delta R.T. 0.006 min  
 Lab File: VN088190.D  
 Acq: 31 Oct 2025 15:44

Tgt Ion:105 Resp: 91802  
 Ion Ratio Lower Upper  
 105 100  
 120 26.2 12.8 38.3





#78

n-propylbenzene

Concen: 13.580 ug/l

RT: 13.018 min Scan# 1880

Delta R.T. 0.006 min

Lab File: VN088190.D

Acq: 31 Oct 2025 15:44

Instrument :

MSVOA\_N

ClientSampleId :

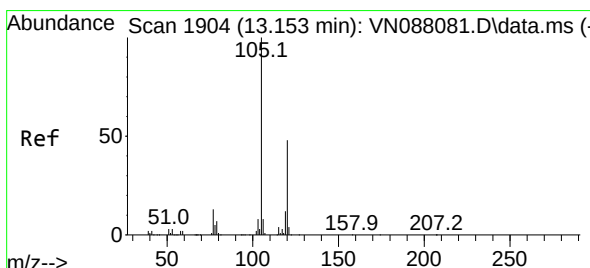
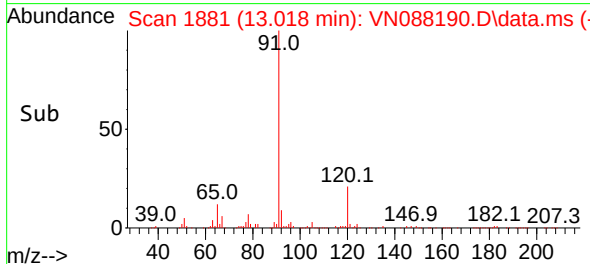
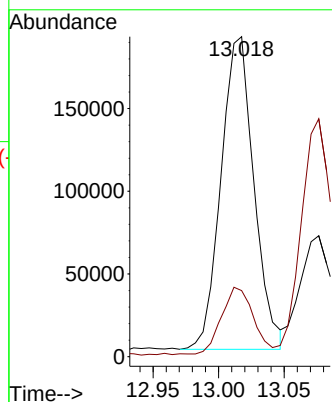
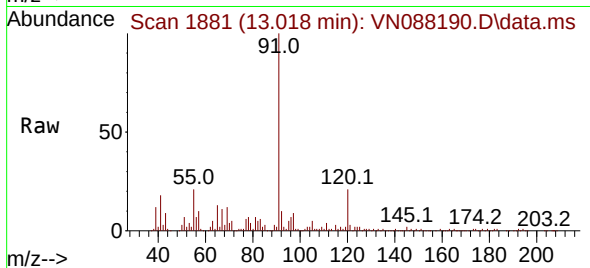
322

Tgt Ion: 91 Resp: 330042

Ion Ratio Lower Upper

91 100

120 20.5 10.7 32.1



#80

1,3,5-Trimethylbenzene

Concen: 19.505 ug/l

RT: 13.153 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VN088190.D

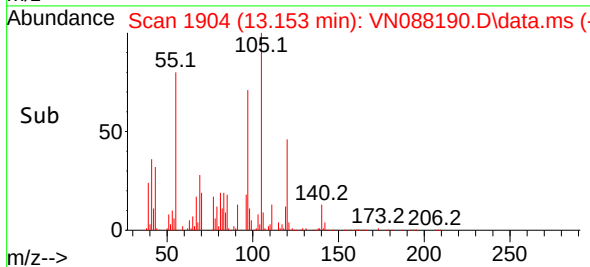
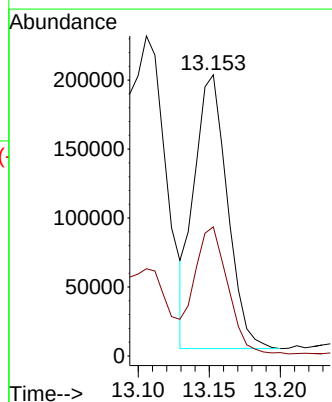
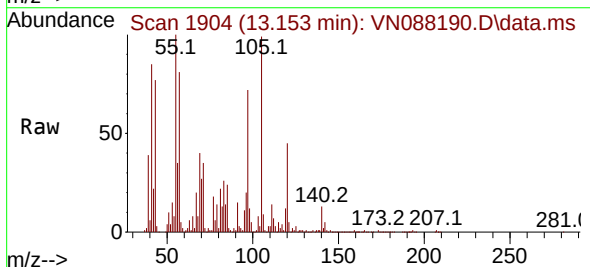
Acq: 31 Oct 2025 15:44

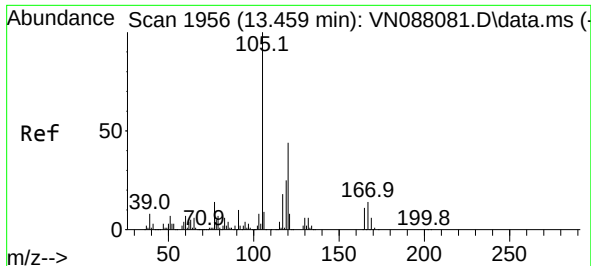
Tgt Ion:105 Resp: 322606

Ion Ratio Lower Upper

105 100

120 46.1 23.2 69.6

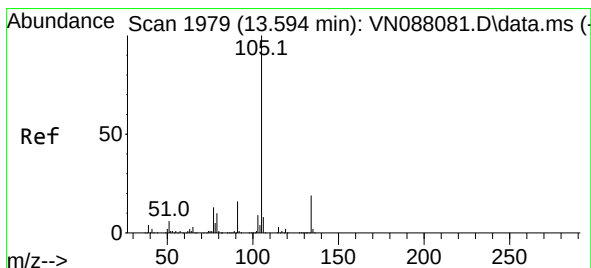
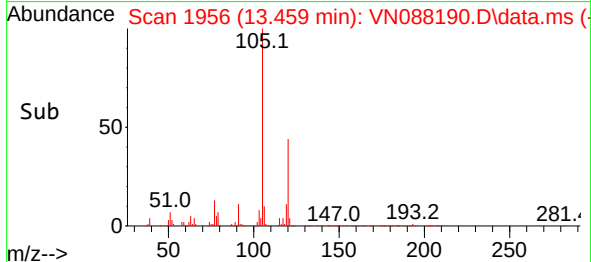
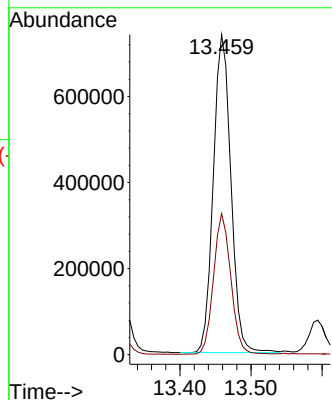
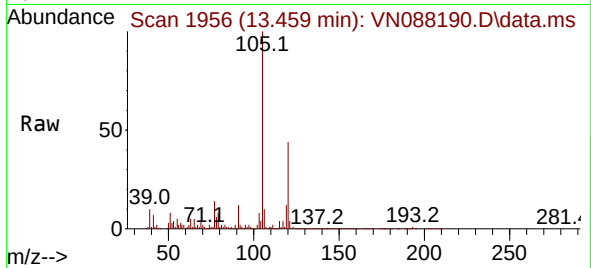




#84  
1,2,4-Trimethylbenzene  
Concen: 76.758 ug/l  
RT: 13.459 min Scan# 1956  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

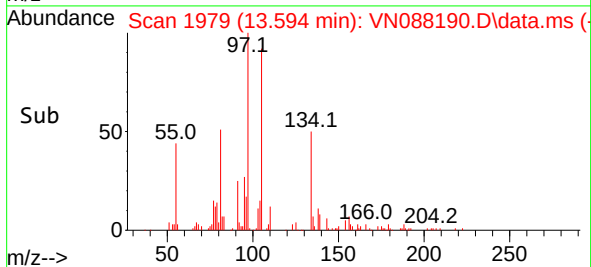
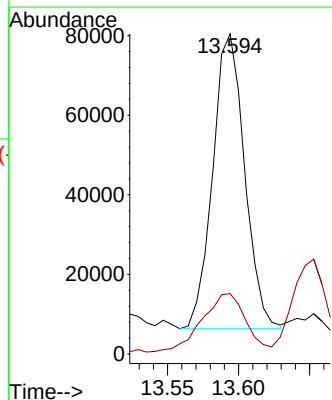
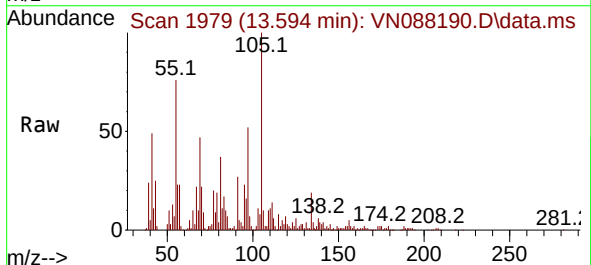
Instrument :  
MSVOA\_N  
ClientSampleId :  
322

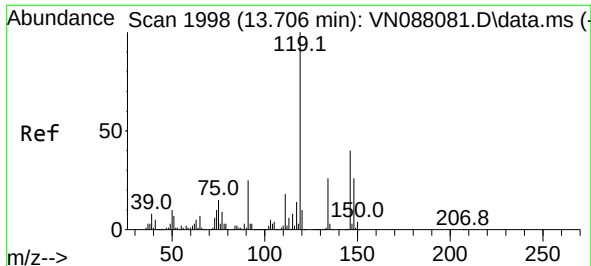
Tgt Ion:105 Resp: 1270168  
Ion Ratio Lower Upper  
105 100  
120 43.5 22.0 66.0



#85  
sec-Butylbenzene  
Concen: 5.321 ug/l  
RT: 13.594 min Scan# 1979  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

Tgt Ion:105 Resp: 115492  
Ion Ratio Lower Upper  
105 100  
134 27.3 9.6 28.6

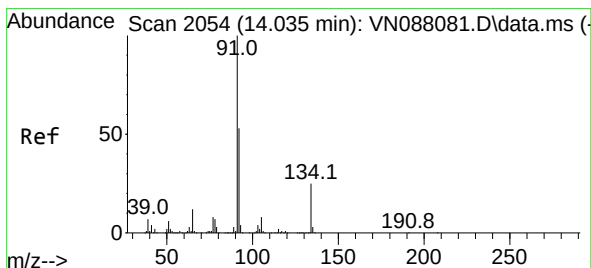
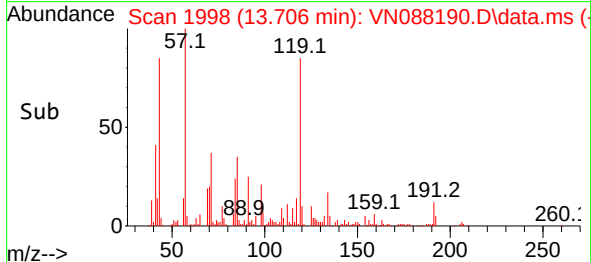
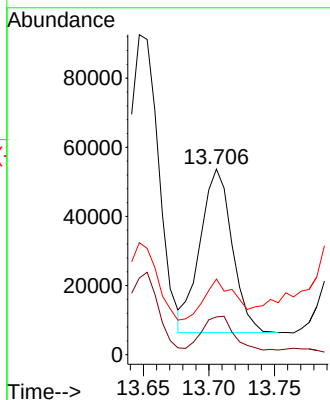
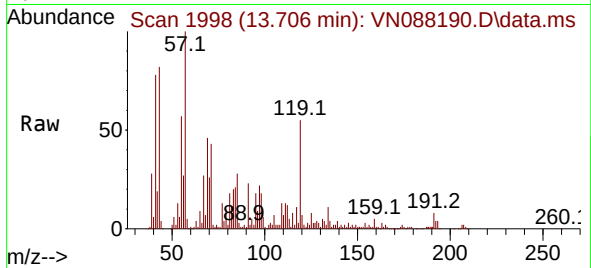




#86  
p-Isopropyltoluene  
Concen: 4.634 ug/l  
RT: 13.706 min Scan# 1998  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

Instrument :  
MSVOA\_N  
ClientSampleId :  
322

Tgt Ion:119 Resp: 80687  
Ion Ratio Lower Upper  
119 100  
134 20.4 12.7 38.0  
91 22.1 12.5 37.5



#89  
n-Butylbenzene  
Concen: 10.312 ug/l  
RT: 14.029 min Scan# 2053  
Delta R.T. -0.000 min  
Lab File: VN088190.D  
Acq: 31 Oct 2025 15:44

Tgt Ion: 91 Resp: 177865  
Ion Ratio Lower Upper  
91 100  
92 57.5 25.9 77.8  
134 0.0 11.7 35.0#

