

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN012825\  
 Data File : VN085531.D  
 Acq On : 28 Jan 2025 12:12  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

Quant Time: Jan 29 00:37:26 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N011425W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 15 02:16:08 2025  
 Response via : Initial Calibration

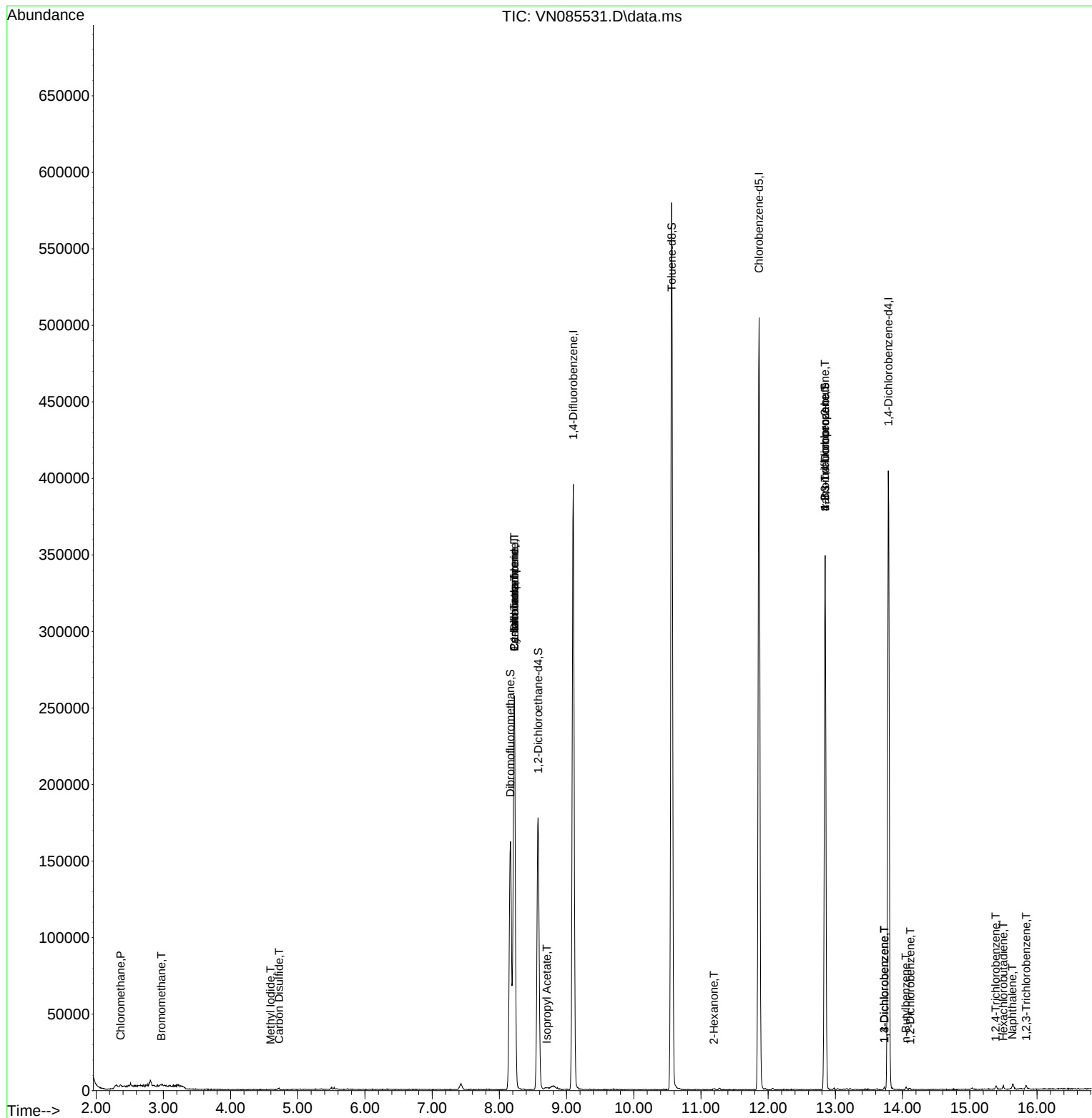
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168            | 175957   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114            | 321181   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117            | 275065   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152            | 105485   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65             | 152556   | 53.711     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 107.420% |        |          |
| 35) Dibromofluoromethane      | 8.165  | 113            | 114240   | 51.270     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 102.540% |        |          |
| 50) Toluene-d8                | 10.565 | 98             | 387697   | 48.972     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 97.940%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95             | 115197   | 42.537     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 85.080%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50             | 742      | 0.288      | ug/l   | 88       |
| 5) Bromomethane               | 2.971  | 94             | 902      | 0.576      | ug/l   | 91       |
| 10) Methyl Iodide             | 4.594  | 142            | 627      | 0.258      | ug/l # | 36       |
| 17) Carbon Disulfide          | 4.724  | 76             | 1741     | 0.299      | ug/l # | 76       |
| 31) Cyclohexane               | 8.224  | 56             | 4818     | 1.337      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75             | 16448    | 5.260      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.224  | 117            | 19900    | 5.558      | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.706  | 43             | 1210     | 0.239      | ug/l # | 55       |
| 59) 2-Hexanone                | 11.194 | 43             | 712      | 0.345      | ug/l   | 69       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75             | 64381    | 30.028     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75             | 64381    | 81.244     | ug/l # | 3        |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146            | 813      | 0.237      | ug/l   | 75       |
| 88) 1,4-Dichlorobenzene       | 13.729 | 146            | 813      | 0.229      | ug/l   | 75       |
| 89) n-Butylbenzene            | 14.047 | 91             | 1288     | 0.262      | ug/l   | 84       |
| 91) 1,2-Dichlorobenzene       | 14.117 | 146            | 716      | 0.210      | ug/l   | 79       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180            | 959      | 0.604      | ug/l   | 87       |
| 94) Hexachlorobutadiene       | 15.500 | 225            | 657      | 0.779      | ug/l   | 81       |
| 95) Naphthalene               | 15.635 | 128            | 4280     | 0.903      | ug/l   | 95       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180            | 1207     | 0.751      | ug/l   | 92       |
| -----                         |        |                |          |            |        |          |

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

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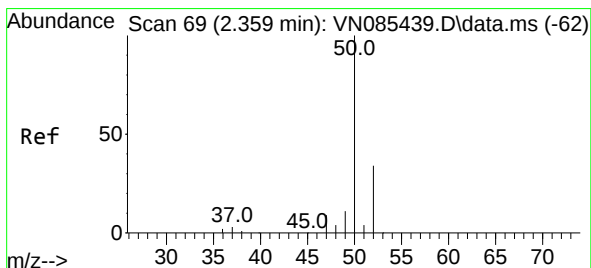
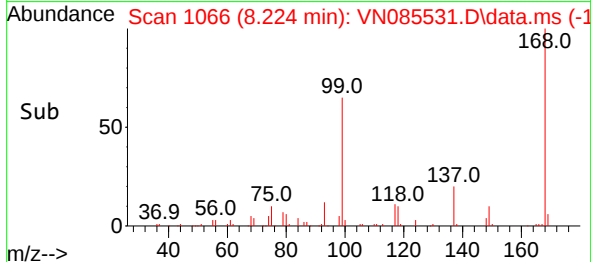
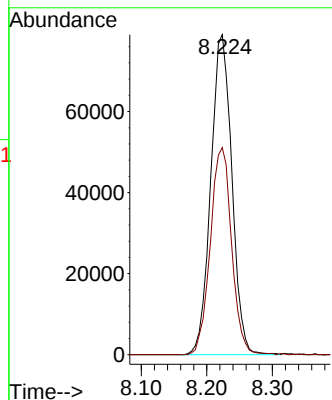
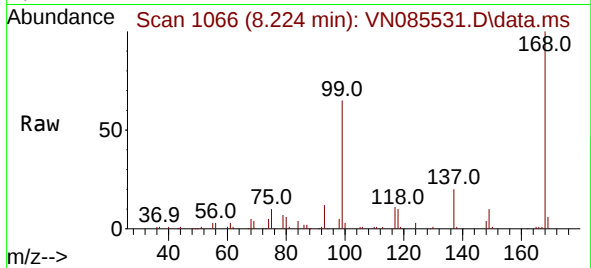




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

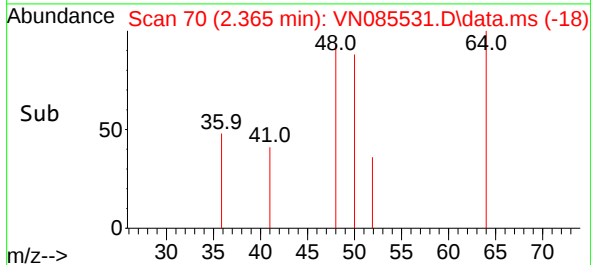
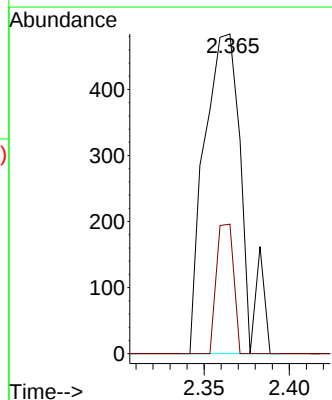
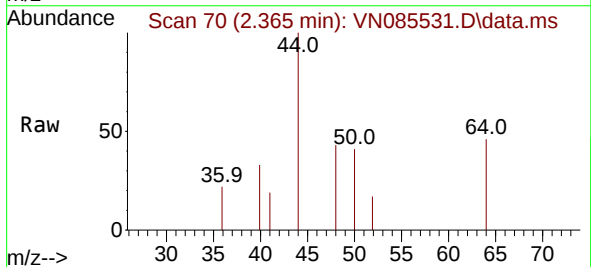
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

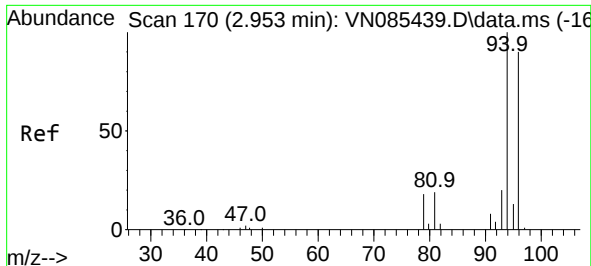
Tgt Ion:168 Resp: 175957  
Ion Ratio Lower Upper  
168 100  
99 64.7 53.6 80.4



#3  
Chloromethane  
Concen: 0.288 ug/l  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

Tgt Ion: 50 Resp: 742  
Ion Ratio Lower Upper  
50 100  
52 40.5 27.0 40.6

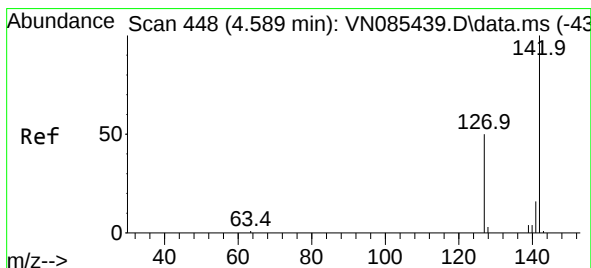
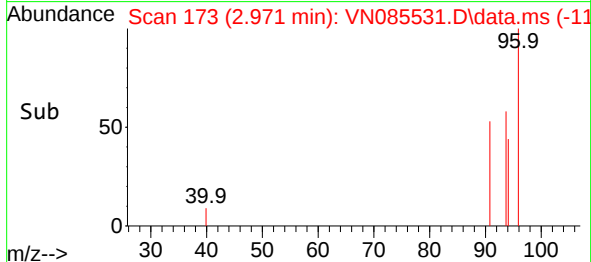
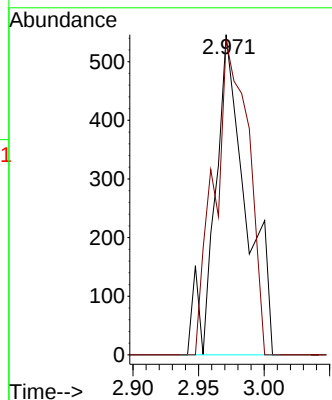
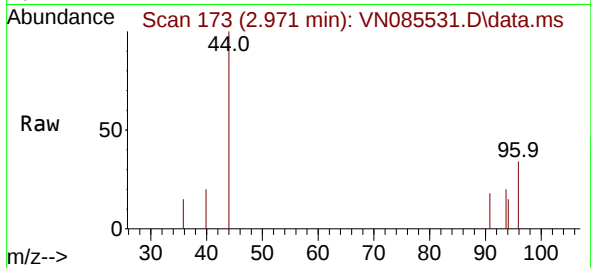




#5  
Bromomethane  
Concen: 0.576 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.018 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

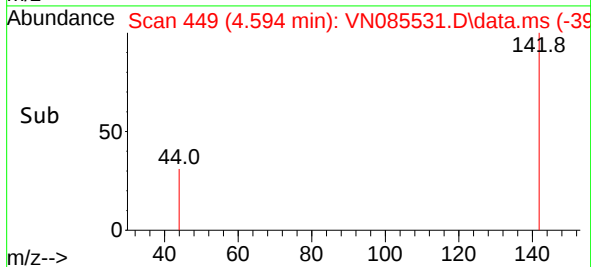
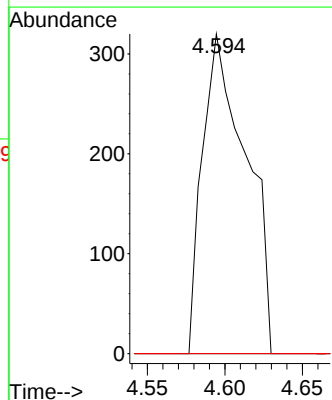
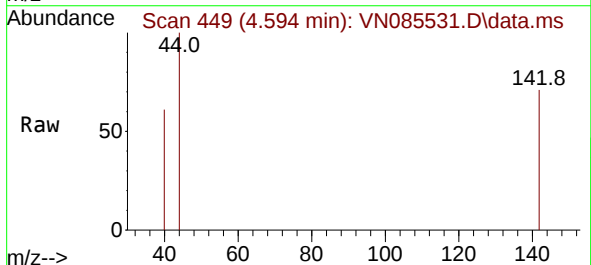
Instrument :  
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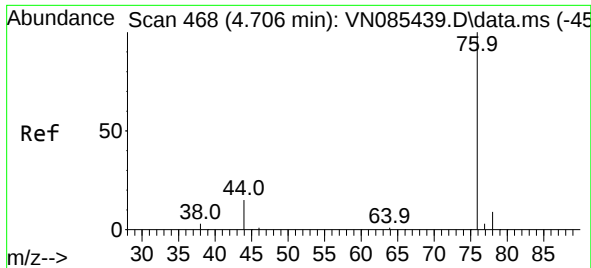
Tgt Ion: 94 Resp: 902  
Ion Ratio Lower Upper  
94 100  
96 98.2 71.8 107.6



#10  
Methyl Iodide  
Concen: 0.258 ug/l  
RT: 4.594 min Scan# 449  
Delta R.T. 0.006 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

Tgt Ion: 142 Resp: 627  
Ion Ratio Lower Upper  
142 100  
127 0.0 40.3 60.5#  
141 0.0 12.8 19.2#

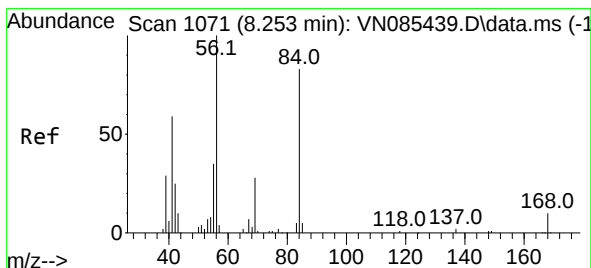
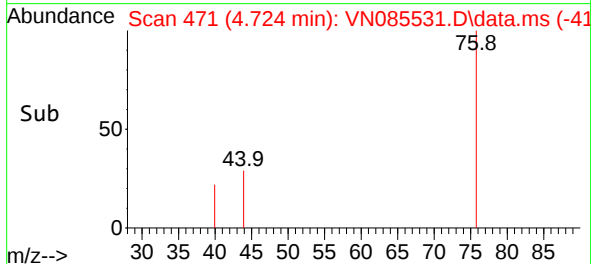
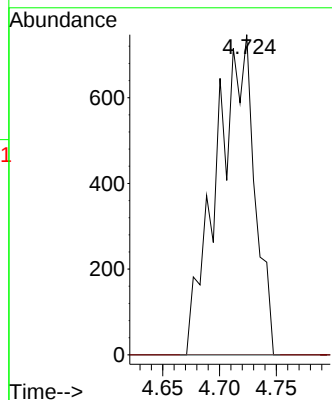
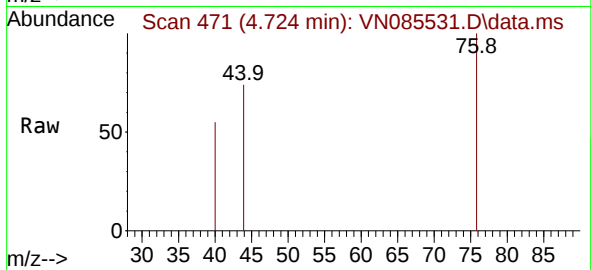




#17  
Carbon Disulfide  
Concen: 0.299 ug/l  
RT: 4.724 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

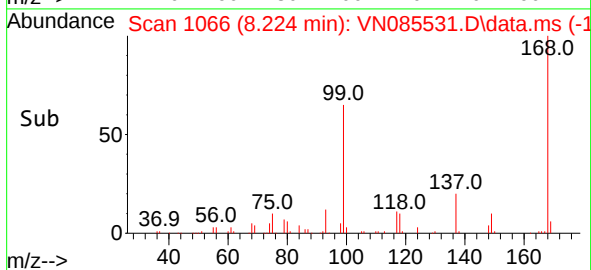
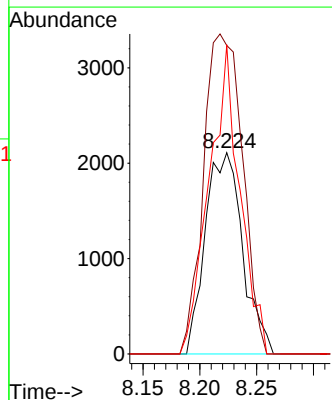
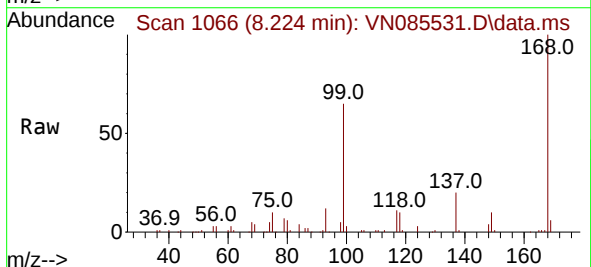
Instrument :  
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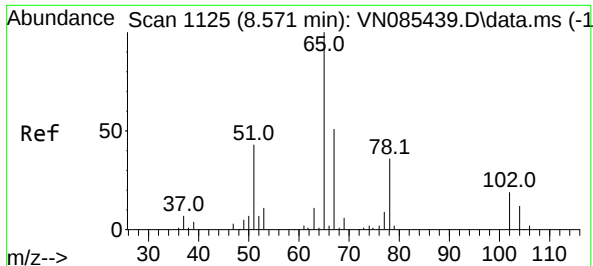
Tgt Ion: 76 Resp: 1741  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.9 10.3#



#31  
Cyclohexane  
Concen: 1.337 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

Tgt Ion: 56 Resp: 4818  
Ion Ratio Lower Upper  
56 100  
69 153.2 22.2 33.4#  
84 153.6 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 53.711 ug/l

RT: 8.577 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085531.D

Acq: 28 Jan 2025 12:12

Instrument :

MSVOA\_N

ClientSampleId :

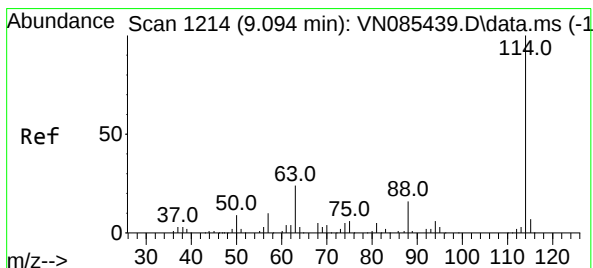
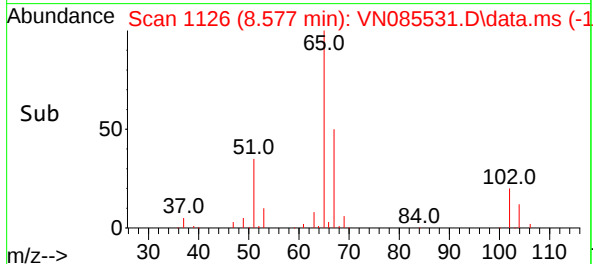
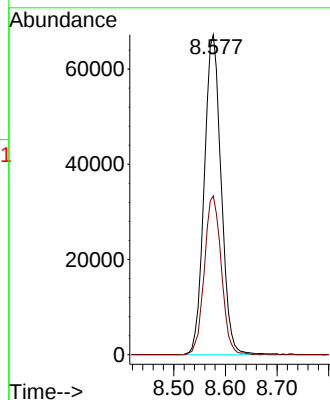
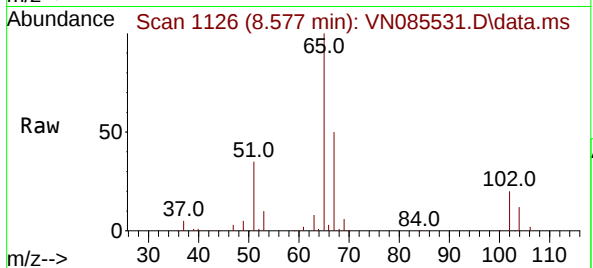
IBLK

Tgt Ion: 65 Resp: 152556

Ion Ratio Lower Upper

65 100

67 49.8 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085531.D

Acq: 28 Jan 2025 12:12

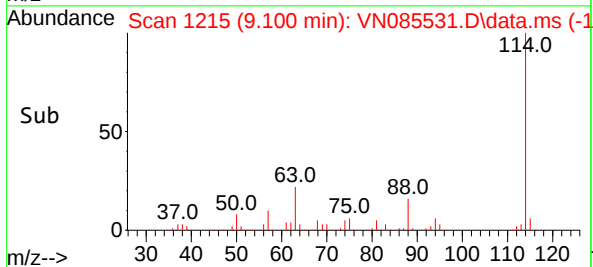
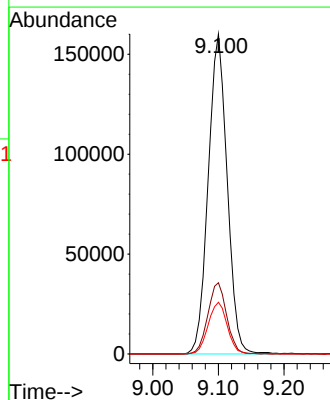
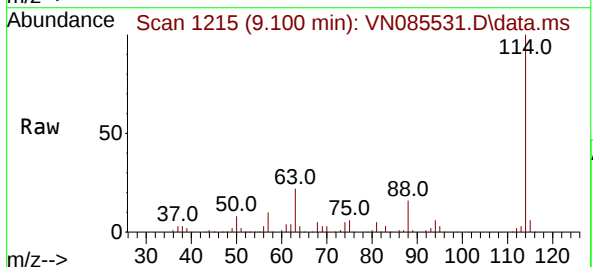
Tgt Ion: 114 Resp: 321181

Ion Ratio Lower Upper

114 100

63 22.2 0.0 47.6

88 16.2 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.270 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085531.D

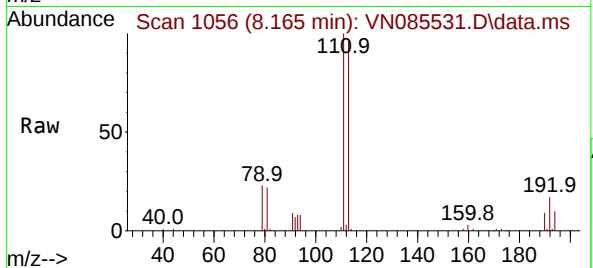
Acq: 28 Jan 2025 12:12

Instrument :

MSVOA\_N

ClientSampleId :

IBLK



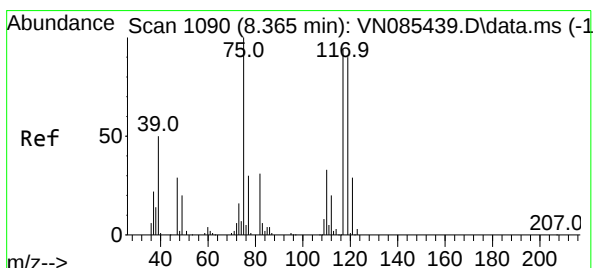
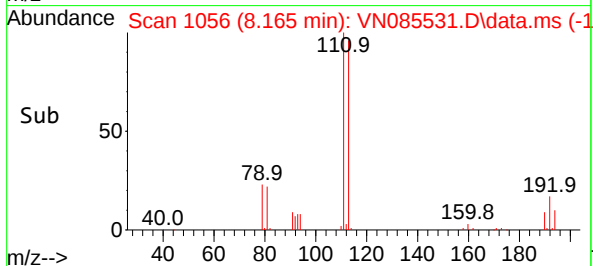
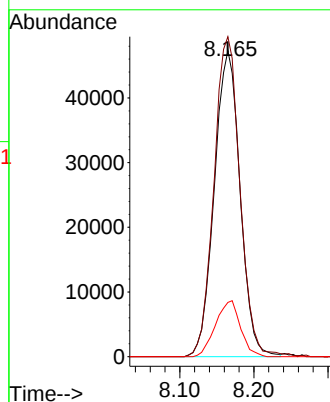
Tgt Ion:113 Resp: 114240

Ion Ratio Lower Upper

113 100

111 105.4 82.7 124.1

192 17.7 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.260 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085531.D

Acq: 28 Jan 2025 12:12

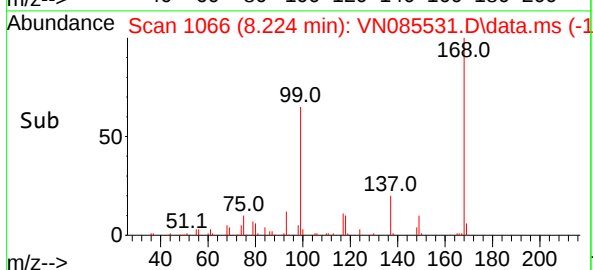
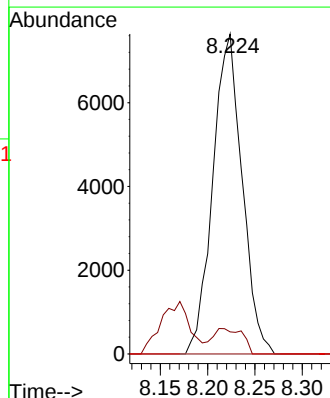
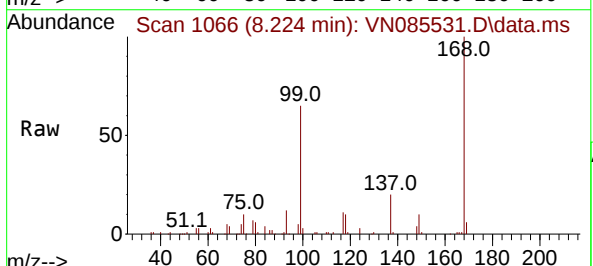
Tgt Ion: 75 Resp: 16448

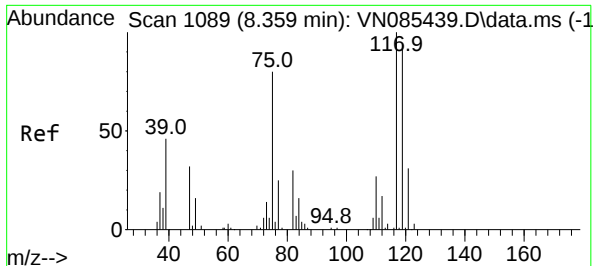
Ion Ratio Lower Upper

75 100

110 8.3 16.5 49.5#

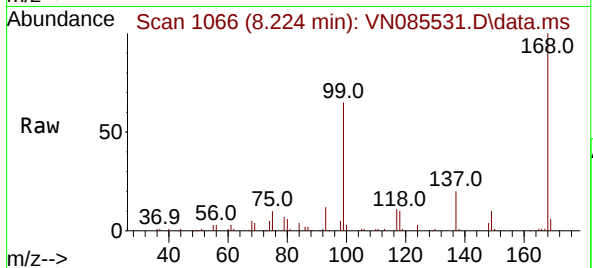
77 0.0 24.4 36.6#



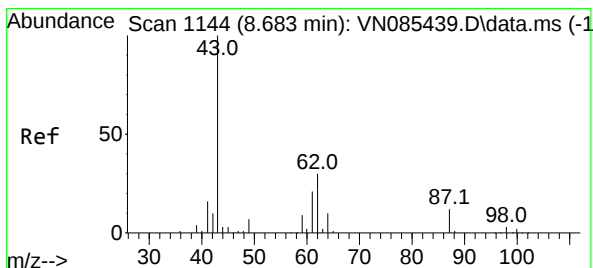
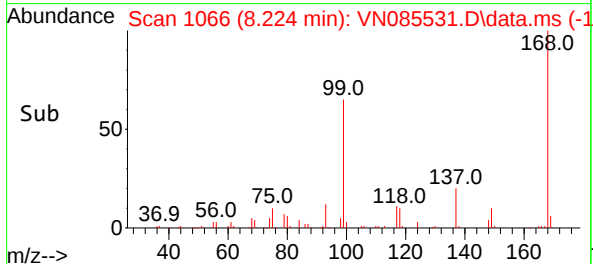
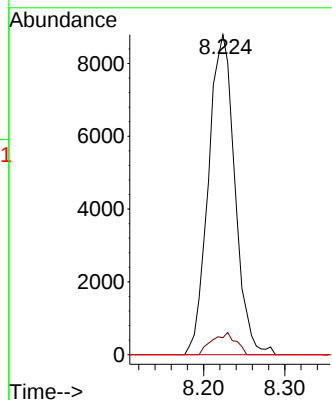


#38  
Carbon Tetrachloride  
Concen: 5.558 ug/l  
RT: 8.224 min Scan# 1106  
Delta R.T. -0.135 min  
Lab File: VN085531.D  
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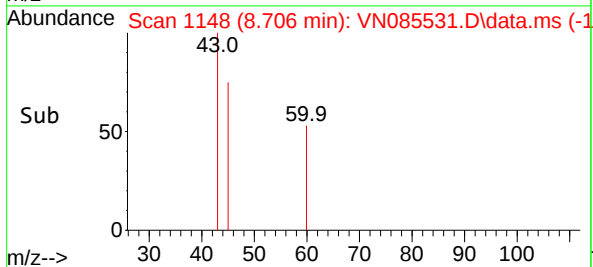
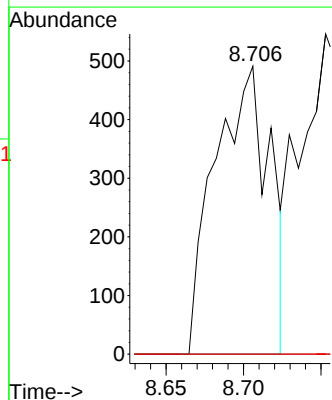
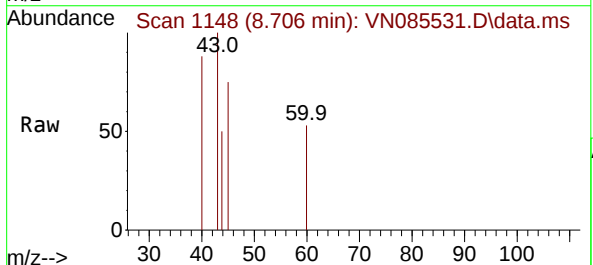


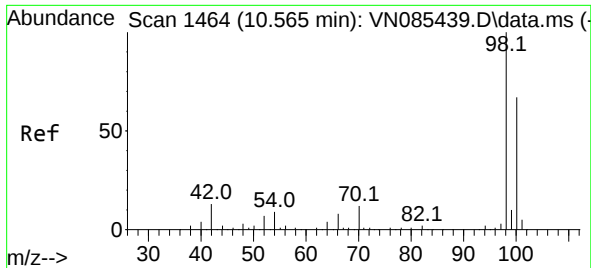
Tgt Ion:117 Resp: 19900  
Ion Ratio Lower Upper  
117 100  
119 5.3 75.4 113.2#  
121 0.0 24.6 37.0#



#43  
Isopropyl Acetate  
Concen: 0.239 ug/l  
RT: 8.706 min Scan# 1148  
Delta R.T. 0.023 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

Tgt Ion: 43 Resp: 1210  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.7 31.1#  
87 0.0 9.8 14.8#

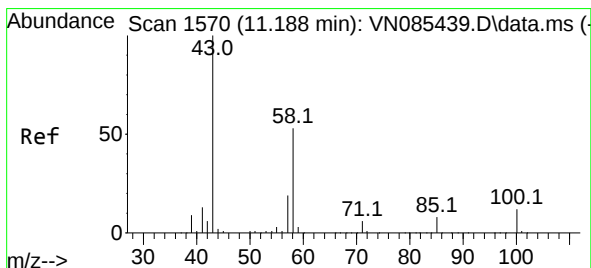
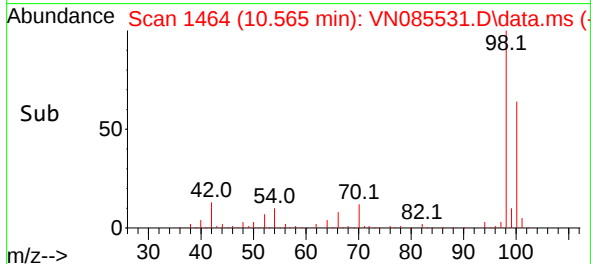
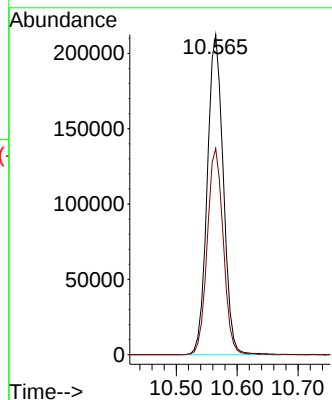
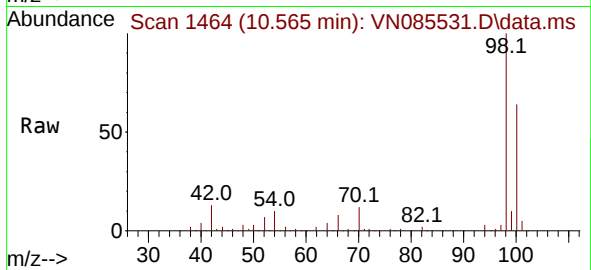




#50  
Toluene-d8  
Concen: 48.972 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

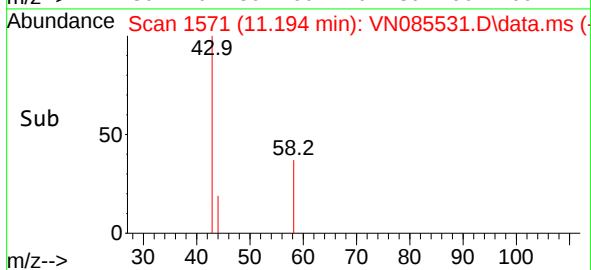
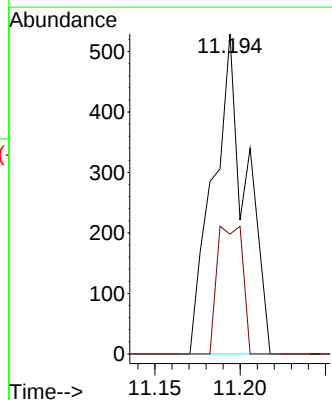
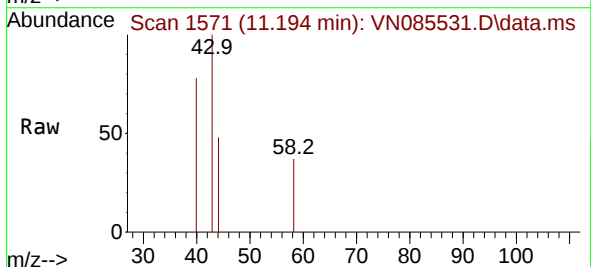
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

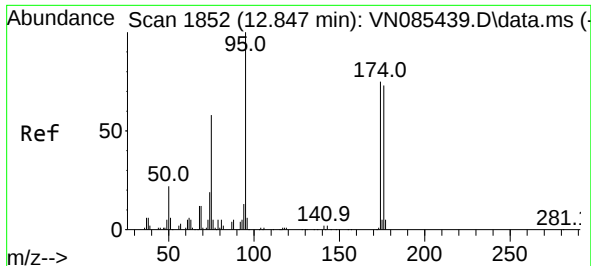
Tgt Ion: 98 Resp: 387697  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.2 78.4



#59  
2-Hexanone  
Concen: 0.345 ug/l  
RT: 11.194 min Scan# 1571  
Delta R.T. 0.006 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

Tgt Ion: 43 Resp: 712  
Ion Ratio Lower Upper  
43 100  
58 30.8 26.2 78.6

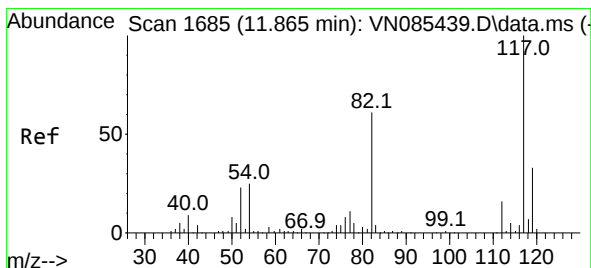
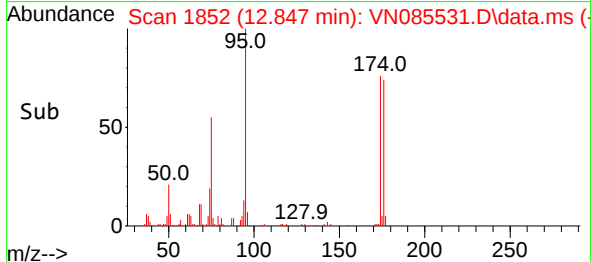
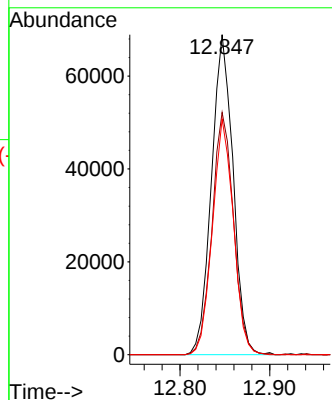
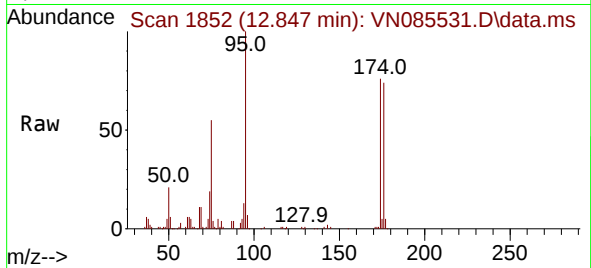




#62  
4-Bromofluorobenzene  
Concen: 42.537 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

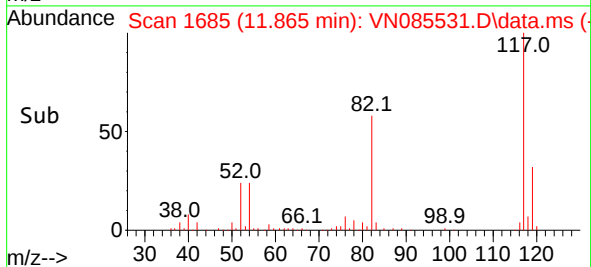
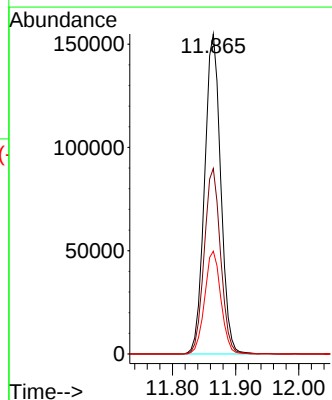
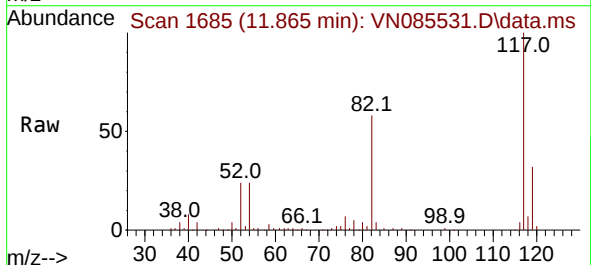
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

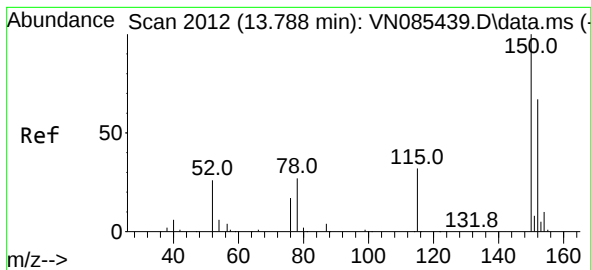
Tgt Ion: 95 Resp: 115197  
Ion Ratio Lower Upper  
95 100  
174 75.3 0.0 145.0  
176 71.5 0.0 142.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.000 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

Tgt Ion: 117 Resp: 275065  
Ion Ratio Lower Upper  
117 100  
82 58.0 48.6 72.8  
119 32.1 26.6 39.8

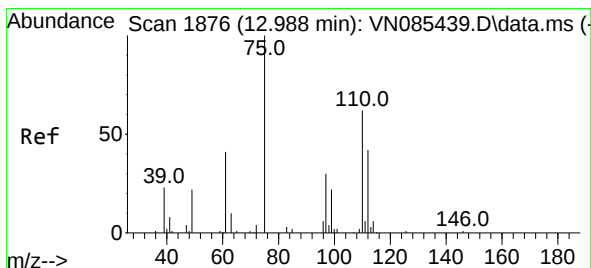
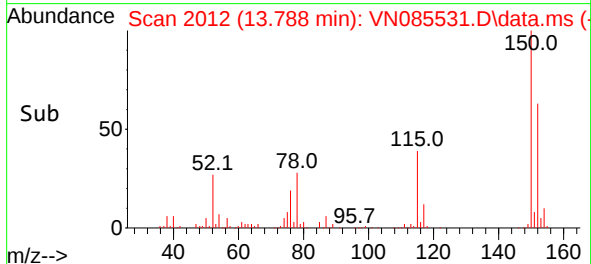
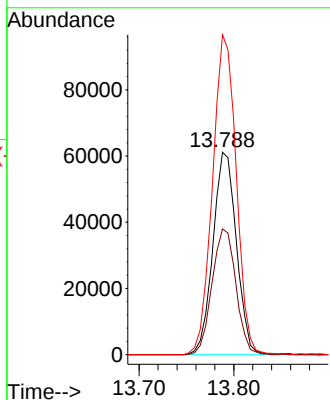
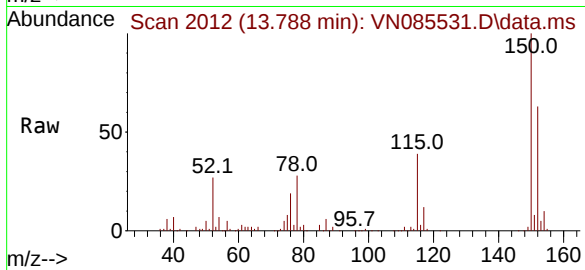




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 2012  
 Delta R.T. -0.000 min  
 Lab File: VN085531.D  
 Acq: 28 Jan 2025 12:12

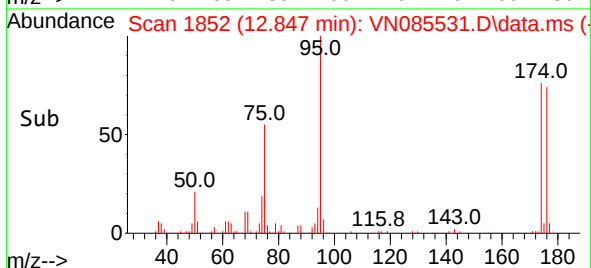
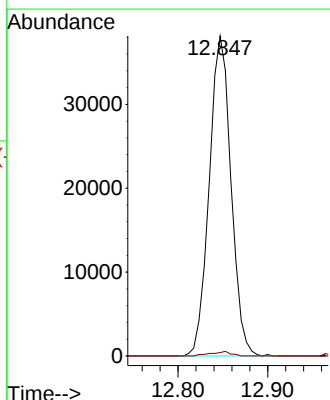
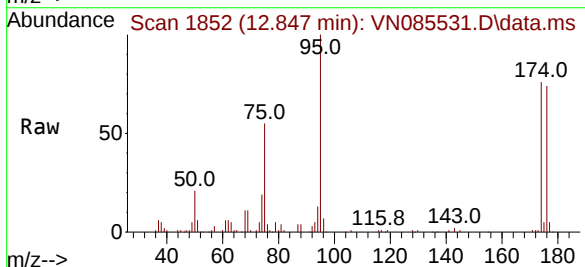
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK

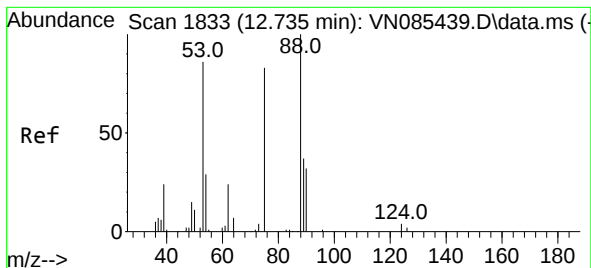
Tgt Ion:152 Resp: 105485  
 Ion Ratio Lower Upper  
 152 100  
 115 63.0 31.1 93.3  
 150 159.5 0.0 343.6



#76  
 1,2,3-Trichloropropane  
 Concen: 30.028 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.141 min  
 Lab File: VN085531.D  
 Acq: 28 Jan 2025 12:12

Tgt Ion: 75 Resp: 64381  
 Ion Ratio Lower Upper  
 75 100  
 77 1.3 109.7 329.2#

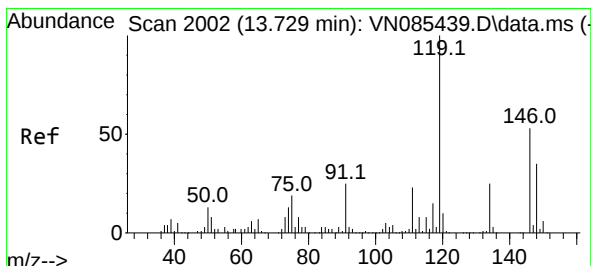
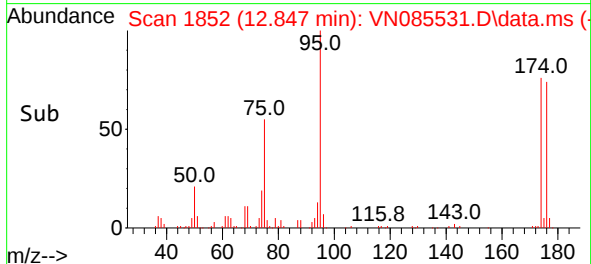
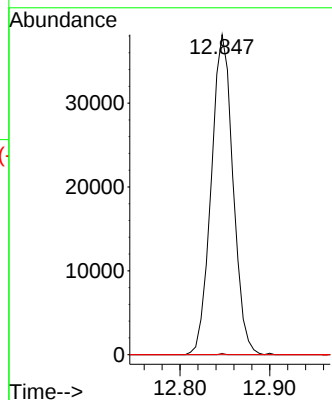
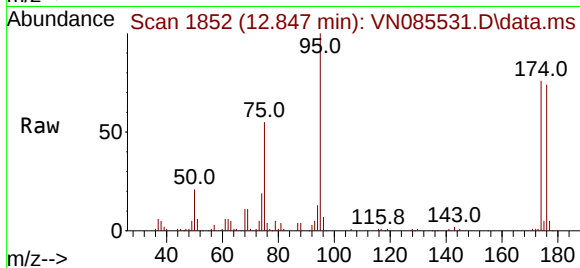




#81  
trans-1,4-Dichloro-2-butene  
Concen: 81.244 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

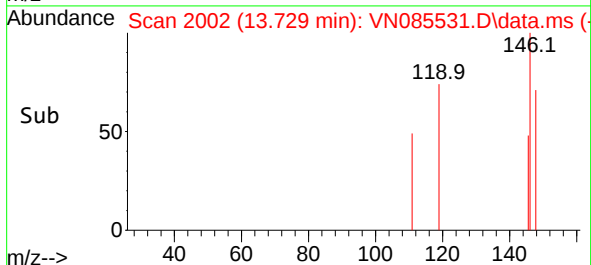
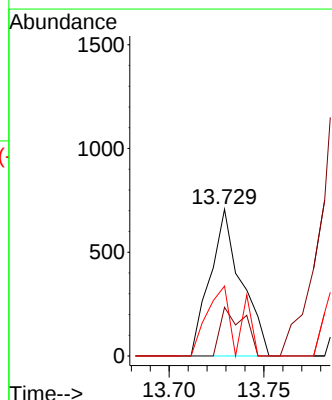
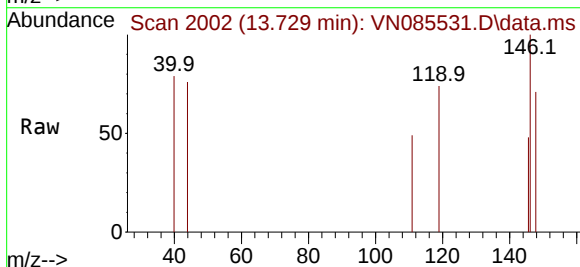
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

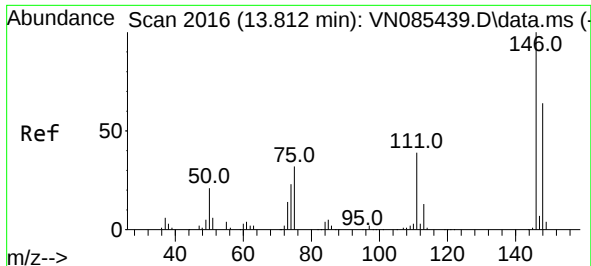
Tgt Ion: 75 Resp: 64381  
Ion Ratio Lower Upper  
75 100  
53 0.1 95.6 143.4#  
89 0.0 37.0 55.6#



#87  
1,3-Dichlorobenzene  
Concen: 0.237 ug/l  
RT: 13.729 min Scan# 2002  
Delta R.T. -0.000 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

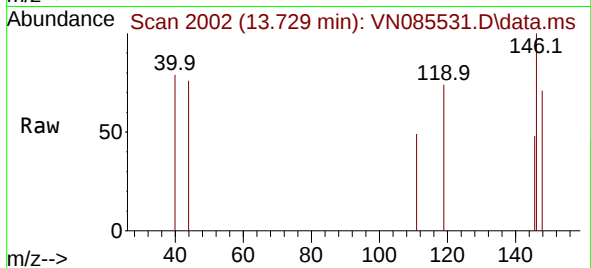
Tgt Ion: 146 Resp: 813  
Ion Ratio Lower Upper  
146 100  
111 25.2 21.4 64.3  
148 45.9 32.3 96.9



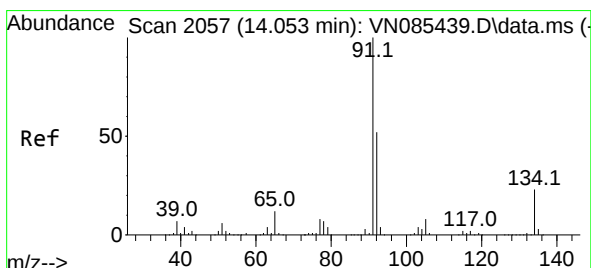
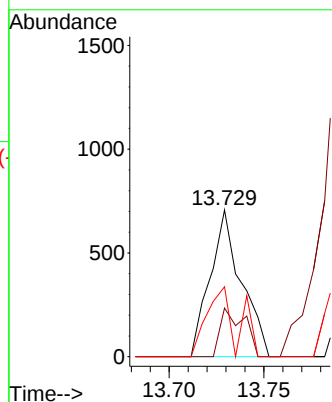
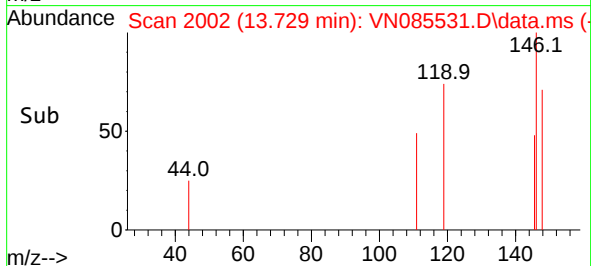


#88  
1,4-Dichlorobenzene  
Concen: 0.229 ug/l  
RT: 13.729 min Scan# 2002  
Delta R.T. -0.082 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

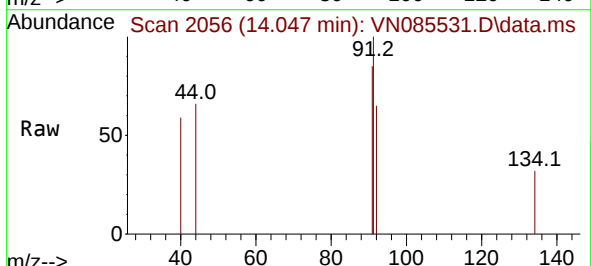
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK



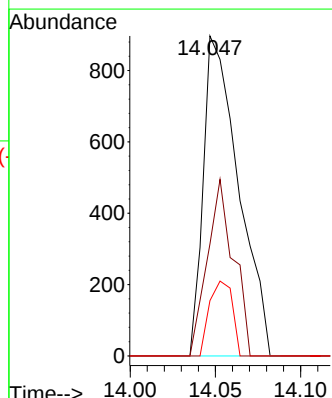
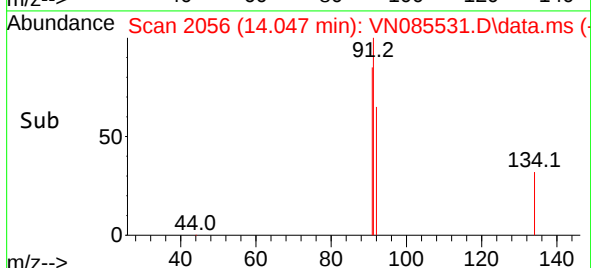
Tgt Ion:146 Resp: 813  
Ion Ratio Lower Upper  
146 100  
111 25.2 21.3 63.7  
148 45.9 32.4 97.0

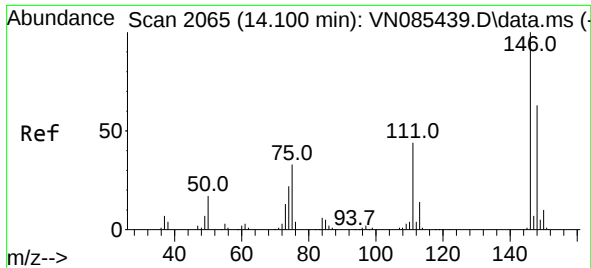


#89  
n-Butylbenzene  
Concen: 0.262 ug/l  
RT: 14.047 min Scan# 2056  
Delta R.T. -0.006 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12



Tgt Ion: 91 Resp: 1288  
Ion Ratio Lower Upper  
91 100  
92 41.0 25.8 77.3  
134 15.2 11.7 35.1





#91

1,2-Dichlorobenzene

Concen: 0.210 ug/l

RT: 14.117 min Scan# 2068

Delta R.T. 0.018 min

Lab File: VN085531.D

Acq: 28 Jan 2025 12:12

Instrument :

MSVOA\_N

ClientSampleId :

IBLK

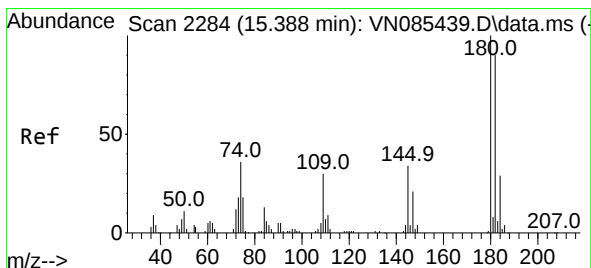
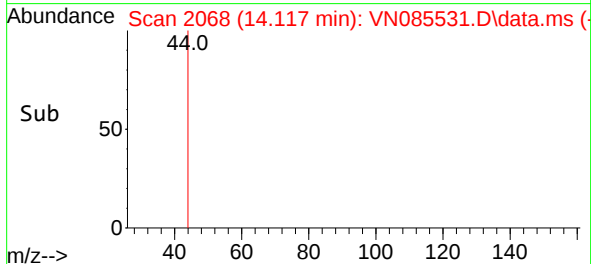
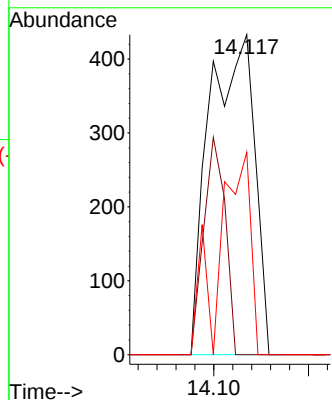
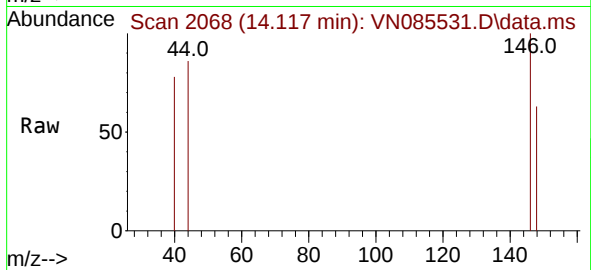
Tgt Ion:146 Resp: 716

Ion Ratio Lower Upper

146 100

111 32.4 21.7 65.1

148 44.4 31.4 94.2



#93

1,2,4-Trichlorobenzene

Concen: 0.604 ug/l

RT: 15.388 min Scan# 2284

Delta R.T. -0.000 min

Lab File: VN085531.D

Acq: 28 Jan 2025 12:12

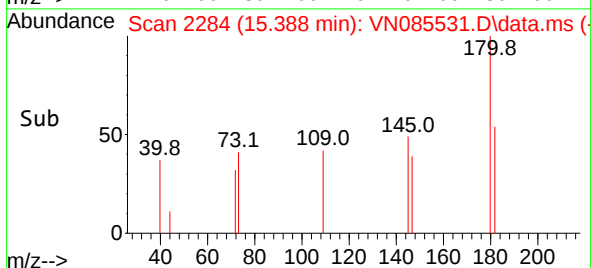
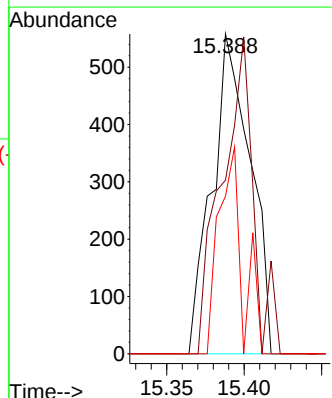
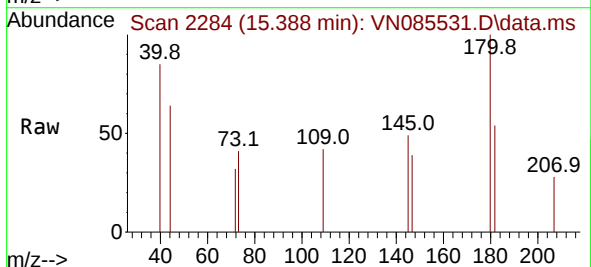
Tgt Ion:180 Resp: 959

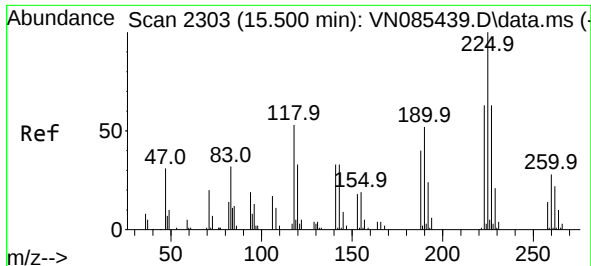
Ion Ratio Lower Upper

180 100

182 81.4 46.8 140.3

145 39.9 16.0 48.0

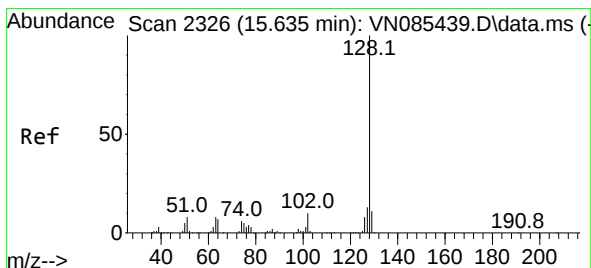
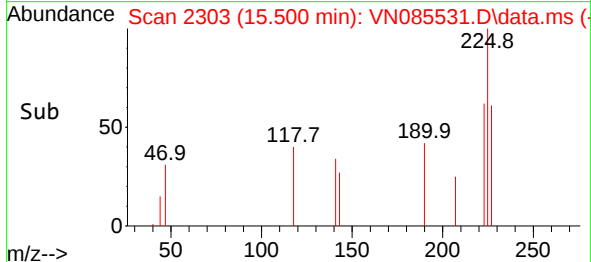
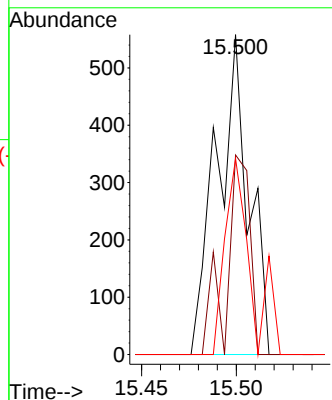
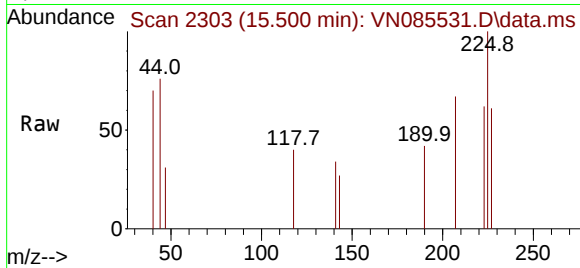




#94  
Hexachlorobutadiene  
Concen: 0.779 ug/l  
RT: 15.500 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

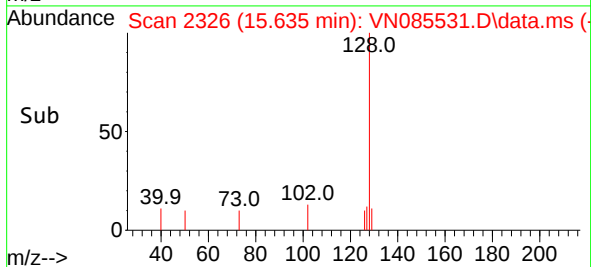
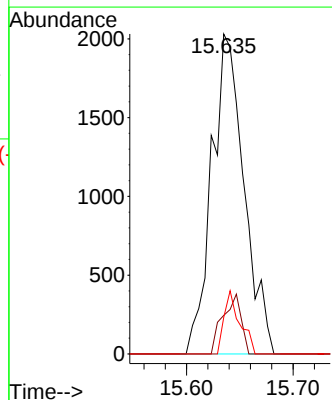
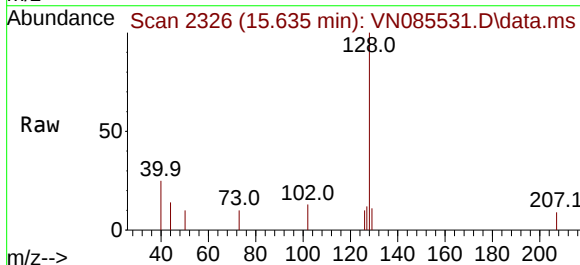
Instrument :  
MSVOA\_N  
ClientSampleId :  
IBLK

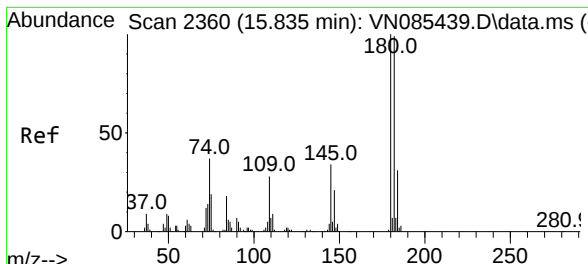
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 657   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 45.5  | 30.7  | 92.1  |
| 227      | 49.2  | 30.9  | 92.5  |



#95  
Naphthalene  
Concen: 0.903 ug/l  
RT: 15.635 min Scan# 2326  
Delta R.T. -0.000 min  
Lab File: VN085531.D  
Acq: 28 Jan 2025 12:12

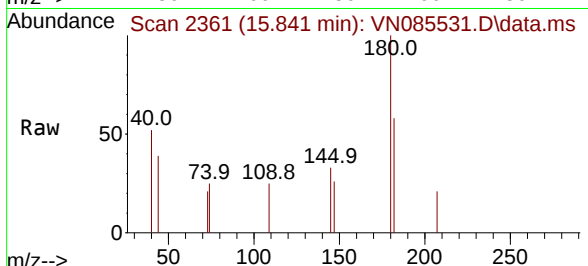
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 4280  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 10.7  | 10.6  | 16.0  |
| 129      | 9.6   | 8.8   | 13.2  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.751 ug/l  
 RT: 15.841 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VN085531.D  
 Acq: 28 Jan 2025 12:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 IBLK



Tgt Ion:180 Resp: 1207

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 86.4  | 47.4  | 142.2 |
| 145 | 29.7  | 16.9  | 50.7  |

