

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091424\  
 Data File : VN083889.D  
 Acq On : 14 Sep 2024 14:44  
 Operator : JC\MD  
 Sample : P3957-14RE  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 16 01:35:39 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

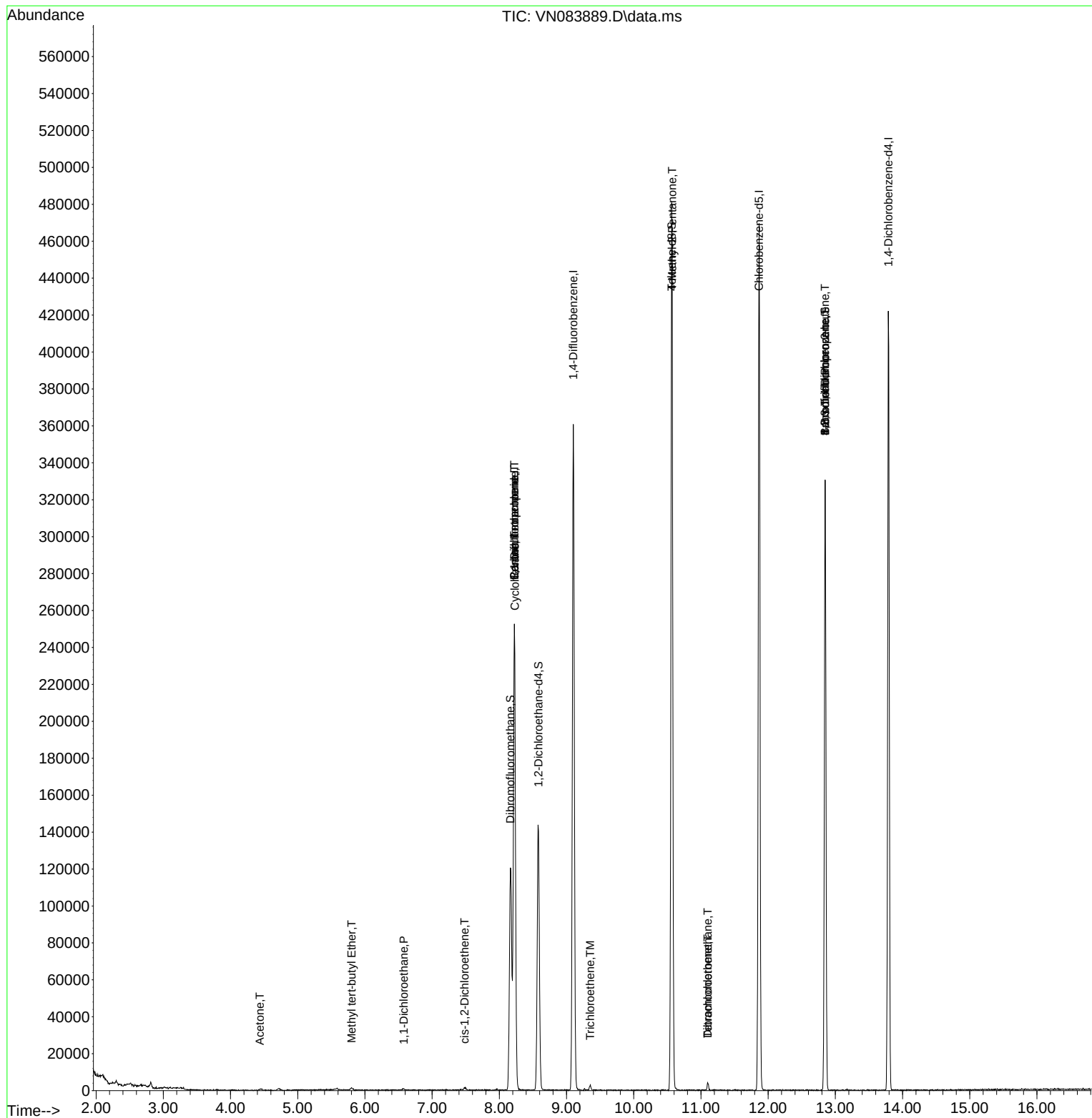
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 168927     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 291059     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 249385     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 105461     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583          | 65   | 124190     | 48.756    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 97.520%   |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 87214      | 46.806    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.620%   |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 320736     | 49.791    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 99.580%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 109138     | 41.066    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 82.140%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.365          | 50   | 234        | Below Cal | #      | 41       |
| 16) Acetone                   | 4.436          | 43   | 554        | 0.543     | ug/l # | 45       |
| 19) Methyl tert-butyl Ether   | 5.800          | 73   | 1685       | 0.255     | ug/l   | 95       |
| 24) 1,1-Dichloroethane        | 6.577          | 63   | 1218       | 0.315     | ug/l # | 82       |
| 27) cis-1,2-Dichloroethene    | 7.483          | 96   | 520        | 0.224     | ug/l   | 45       |
| 31) Cyclohexane               | 8.230          | 56   | 4617       | 1.254     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 16705      | 5.956     | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 20043      | 6.299     | ug/l # | 16       |
| 44) Trichloroethene           | 9.353          | 130  | 952        | 0.487     | ug/l   | 88       |
| 51) 4-Methyl-2-Pentanone      | 10.571         | 43   | 1617       | 0.644     | ug/l # | 1        |
| 60) Dibromochloromethane      | 11.100         | 129  | 833        | 0.386     | ug/l # | 10       |
| 64) Tetrachloroethene         | 11.100         | 164  | 893        | 0.538     | ug/l # | 83       |
| 71) Bromoform                 | 12.847         | 173  | 532        | 0.411     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 62253      | 29.254    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 62253      | 76.619    | ug/l # | 9        |
| -----                         |                |      |            |           |        |          |

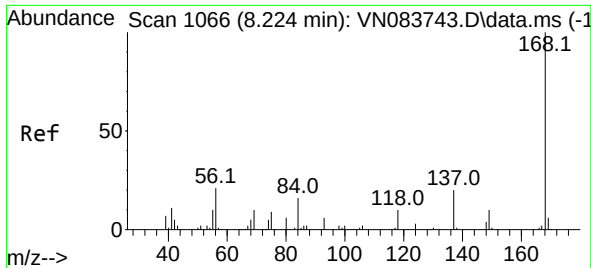
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

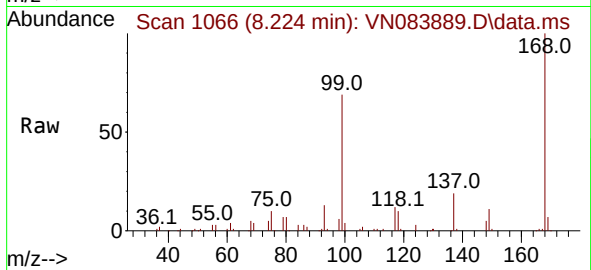
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration



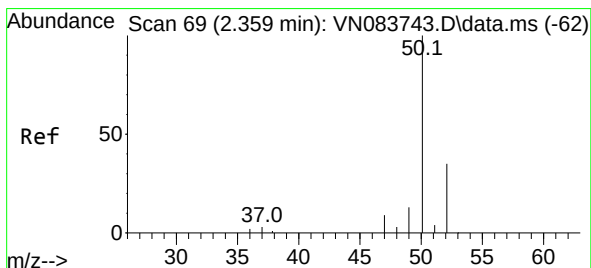
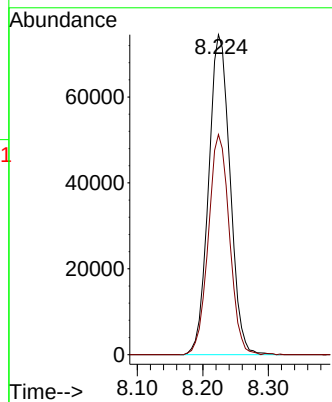
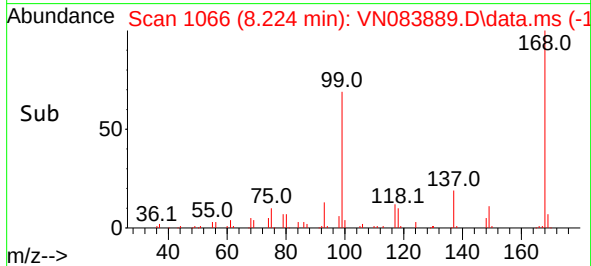


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :

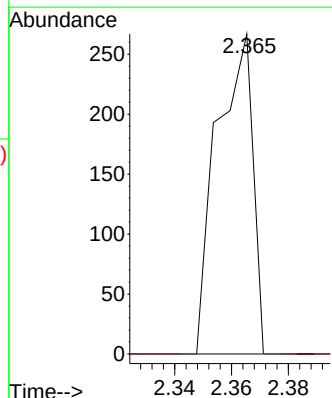
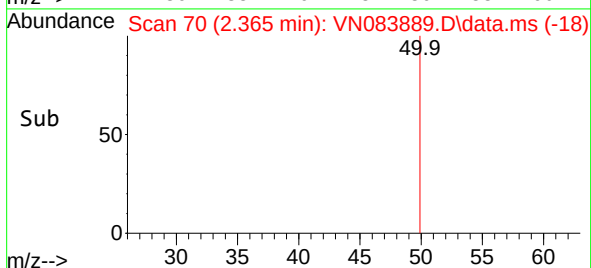
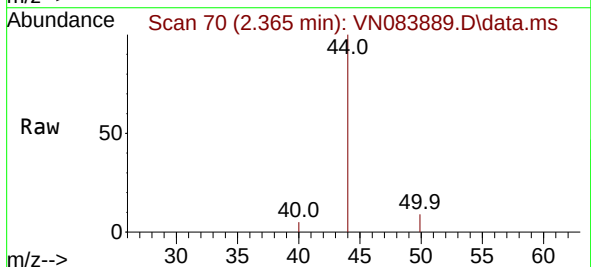


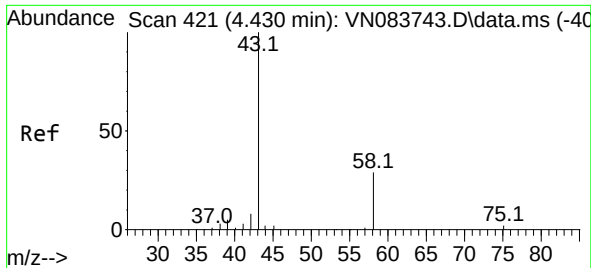
Tgt Ion:168 Resp: 168927  
Ion Ratio Lower Upper  
168 100  
99 68.8 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

Tgt Ion: 50 Resp: 234  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#





#16

Acetone

Concen: 0.543 ug/l

RT: 4.436 min Scan# 431

Delta R.T. 0.006 min

Lab File: VN083889.D

Acq: 14 Sep 2024 14:44

Instrument :

MSVOA\_N

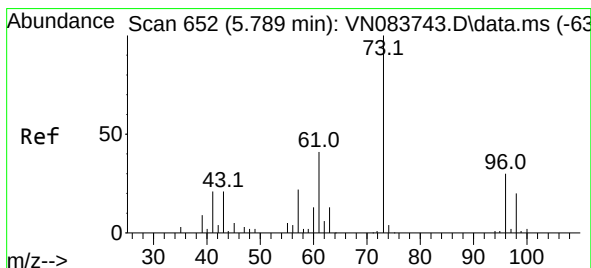
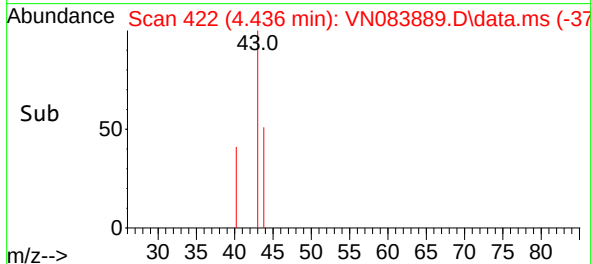
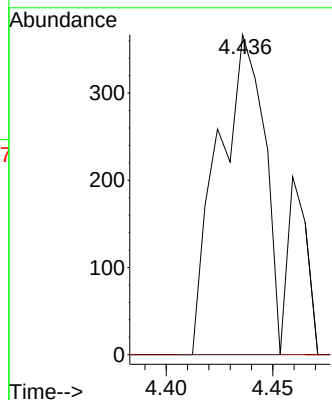
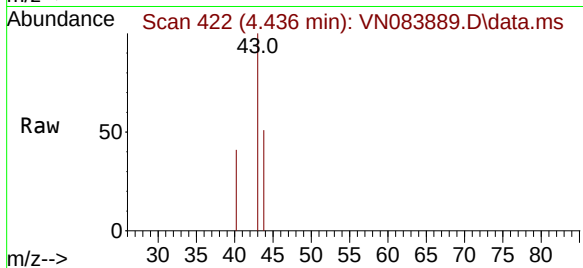
ClientSampleId :

Tgt Ion: 43 Resp: 554

Ion Ratio Lower Upper

43 100

58 0.0 23.7 35.5#



#19

Methyl tert-butyl Ether

Concen: 0.255 ug/l

RT: 5.800 min Scan# 654

Delta R.T. 0.012 min

Lab File: VN083889.D

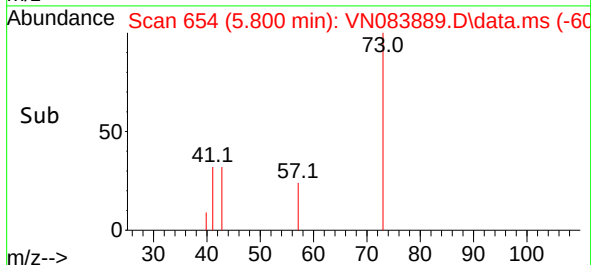
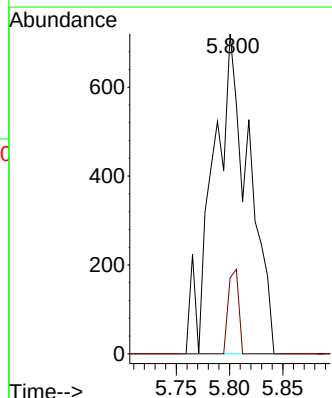
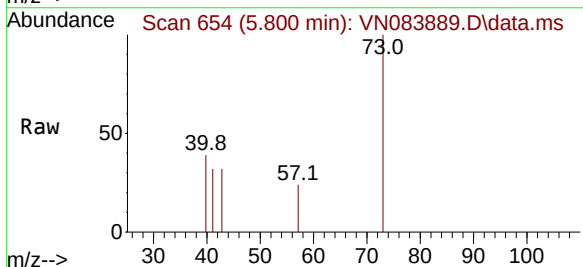
Acq: 14 Sep 2024 14:44

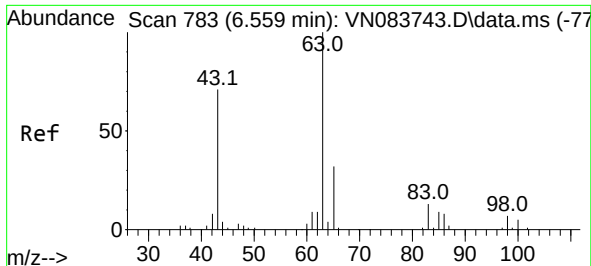
Tgt Ion: 73 Resp: 1685

Ion Ratio Lower Upper

73 100

57 23.8 17.0 25.6

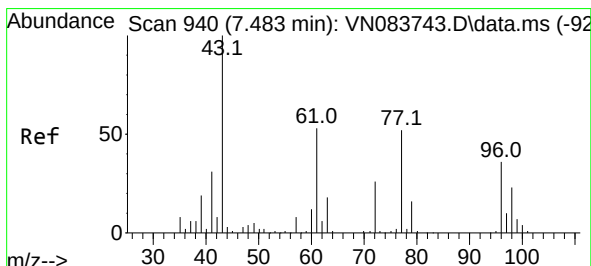
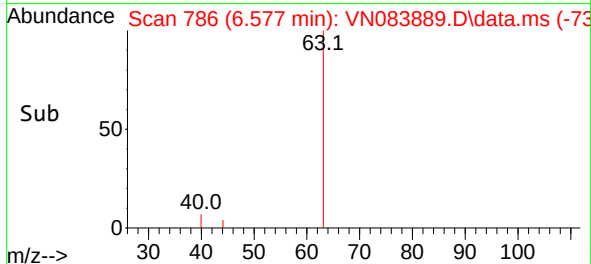
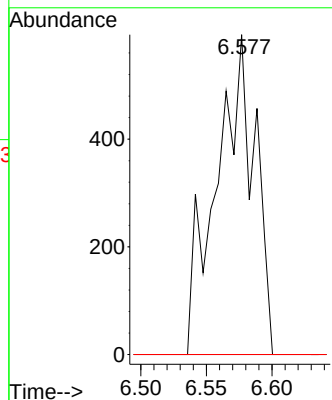
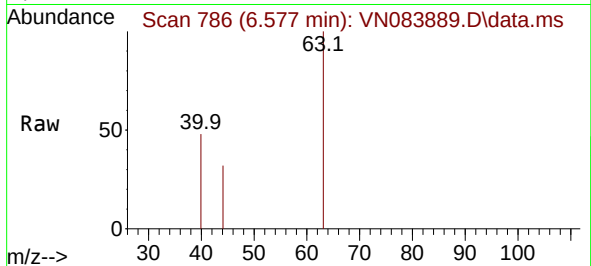




#24  
1,1-Dichloroethane  
Concen: 0.315 ug/l  
RT: 6.577 min Scan# 786  
Delta R.T. 0.018 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

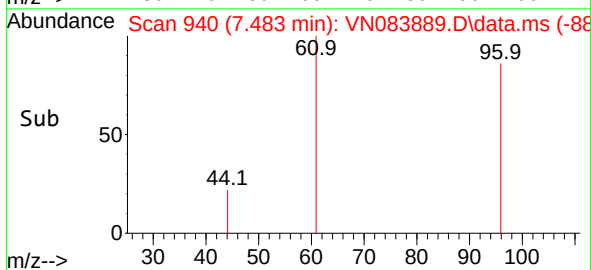
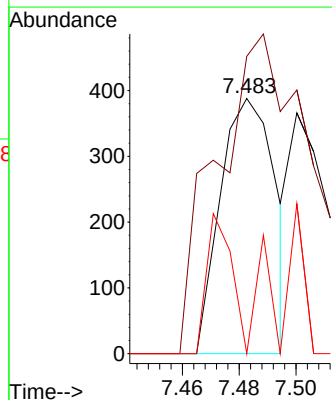
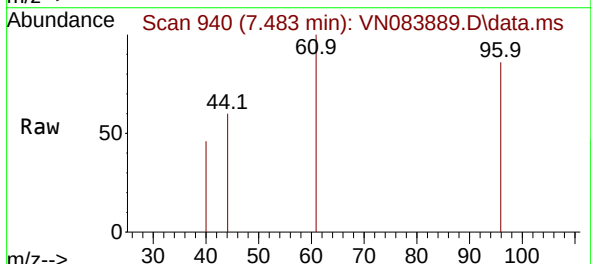
Instrument :  
MSVOA\_N  
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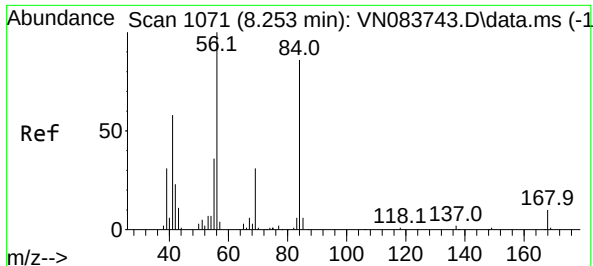
Tgt Ion: 63 Resp: 1218  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.5 10.4#  
100 0.0 2.5 7.5#



#27  
cis-1,2-Dichloroethene  
Concen: 0.224 ug/l  
RT: 7.483 min Scan# 940  
Delta R.T. 0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

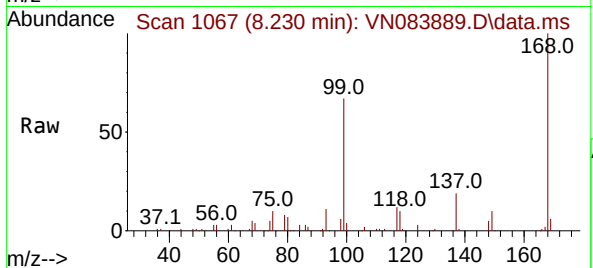
Tgt Ion: 96 Resp: 520  
Ion Ratio Lower Upper  
96 100  
61 218.3 0.0 306.2  
98 12.3 0.0 128.6



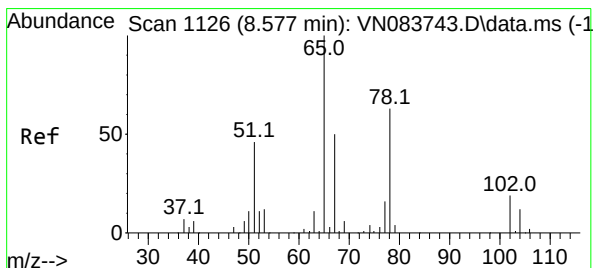
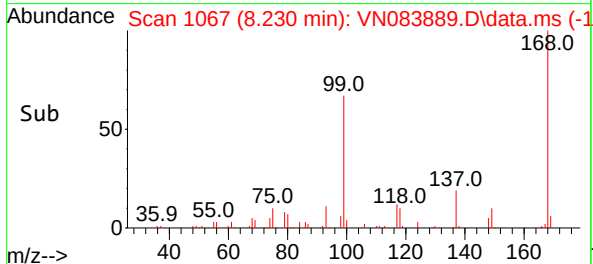
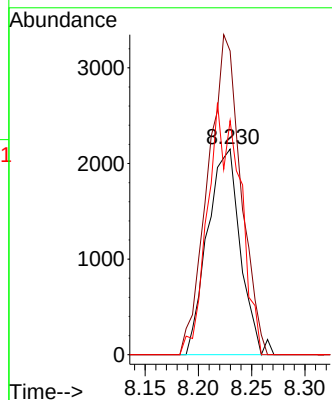


#31  
Cyclohexane  
Concen: 1.254 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.023 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :

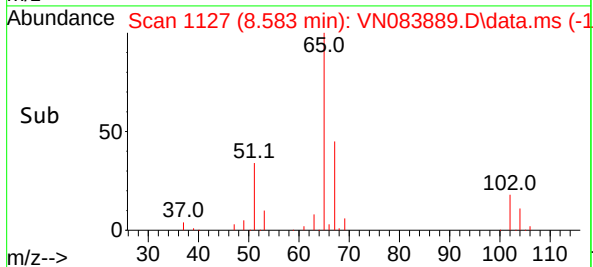
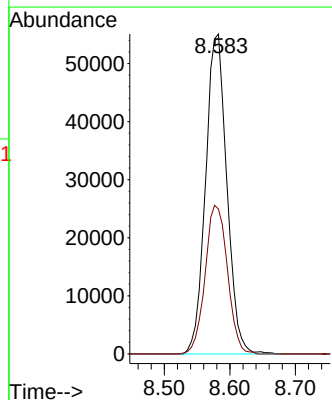
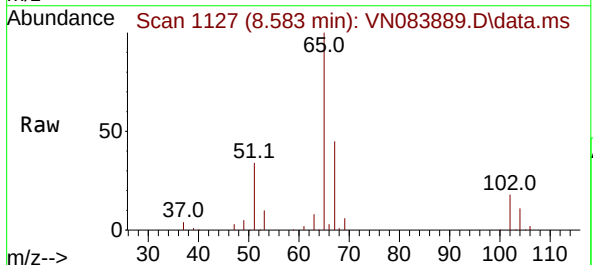


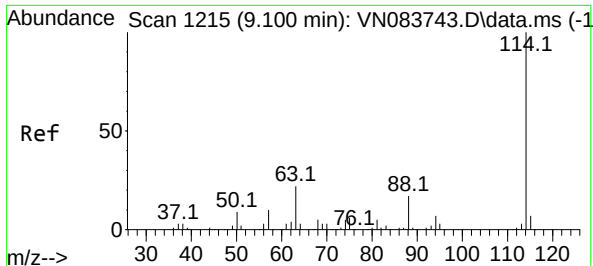
Tgt Ion: 56 Resp: 4617  
Ion Ratio Lower Upper  
56 100  
69 147.7 26.9 40.3#  
84 113.9 69.2 103.8#



#33  
1,2-Dichloroethane-d4  
Concen: 48.756 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.006 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

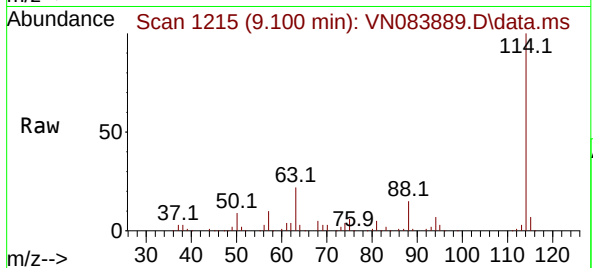
Tgt Ion: 65 Resp: 124190  
Ion Ratio Lower Upper  
65 100  
67 48.8 0.0 100.8



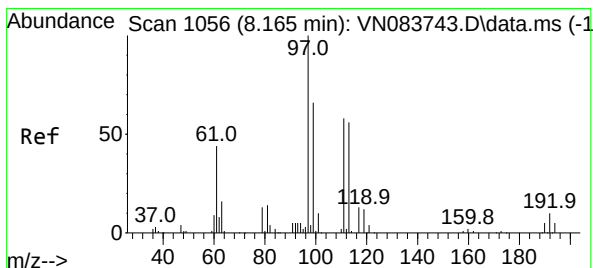
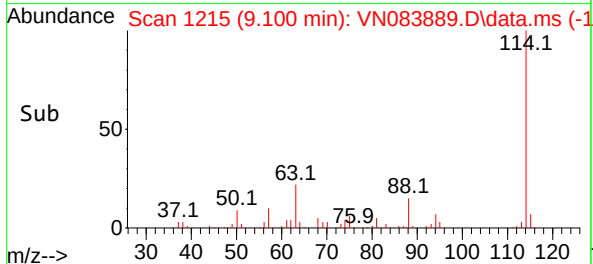
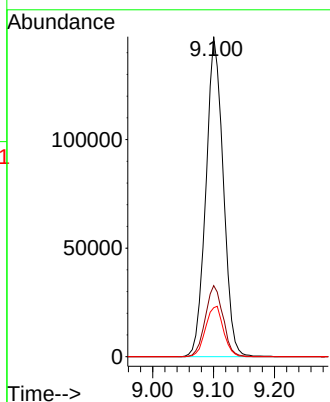


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

Instrument :  
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ClientSampleId :

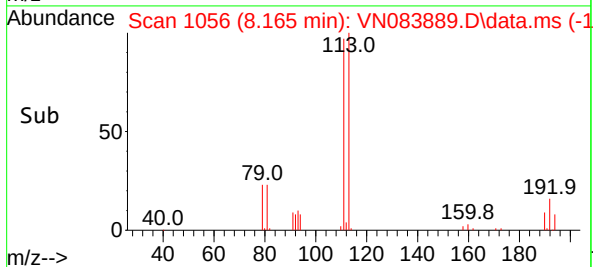
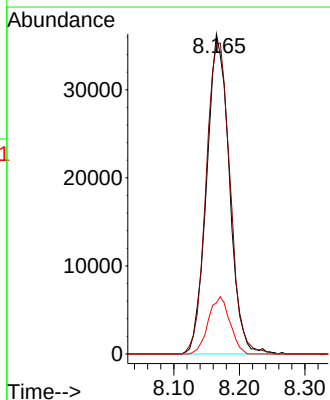
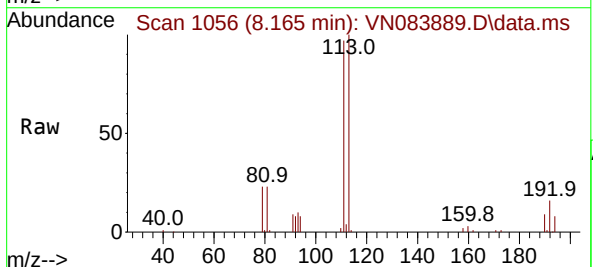


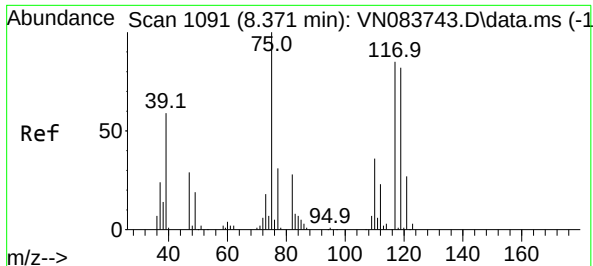
Tgt Ion:114 Resp: 291059  
Ion Ratio Lower Upper  
114 100  
63 22.2 0.0 43.4  
88 15.3 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 46.806 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

Tgt Ion:113 Resp: 87214  
Ion Ratio Lower Upper  
113 100  
111 102.4 82.6 124.0  
192 16.9 14.3 21.5

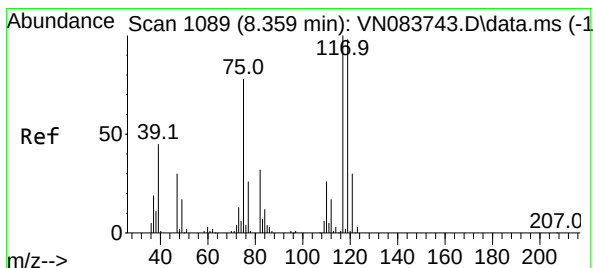
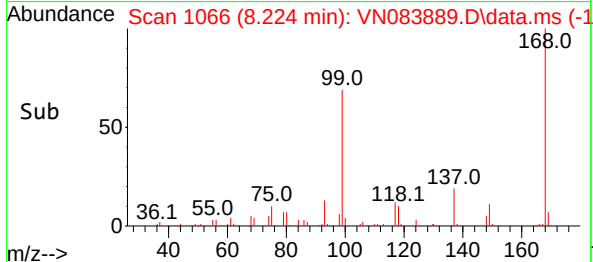
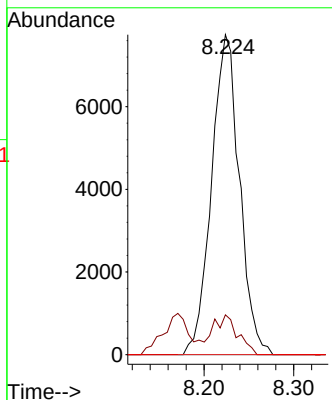
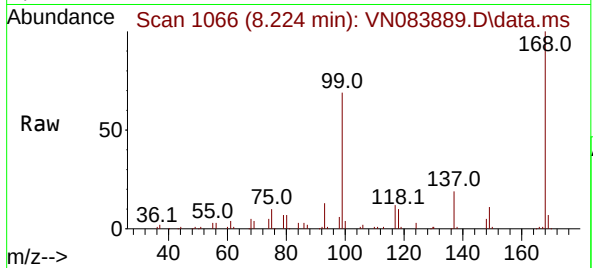




#36  
 1,1-Dichloropropene  
 Concen: 5.956 ug/l  
 RT: 8.224 min Scan# 1066  
 Delta R.T. -0.147 min  
 Lab File: VN083889.D  
 Acq: 14 Sep 2024 14:44

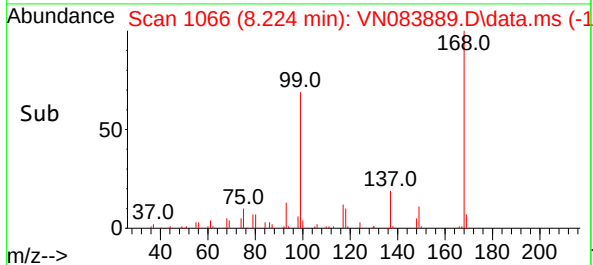
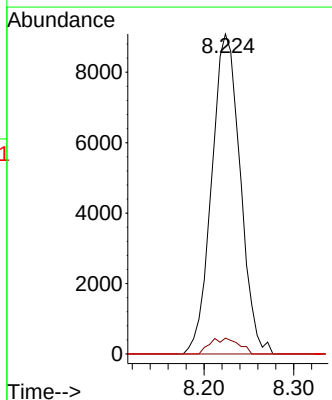
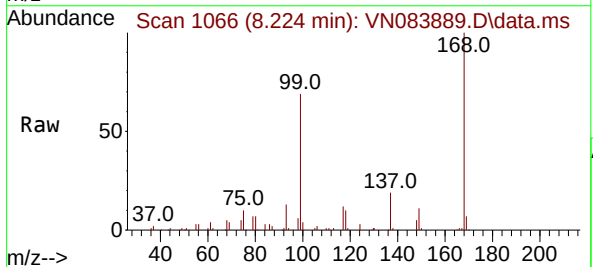
Instrument :  
 MSVOA\_N  
 ClientSampleId :

Tgt Ion: 75 Resp: 16705  
 Ion Ratio Lower Upper  
 75 100  
 110 10.8 16.7 50.1#  
 77 0.0 25.2 37.8#

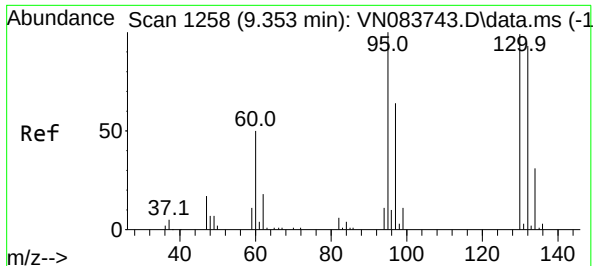


#38  
 Carbon Tetrachloride  
 Concen: 6.299 ug/l  
 RT: 8.224 min Scan# 1066  
 Delta R.T. -0.135 min  
 Lab File: VN083889.D  
 Acq: 14 Sep 2024 14:44

Tgt Ion: 117 Resp: 20043  
 Ion Ratio Lower Upper  
 117 100  
 119 5.0 76.1 114.1#  
 121 0.0 24.1 36.1#



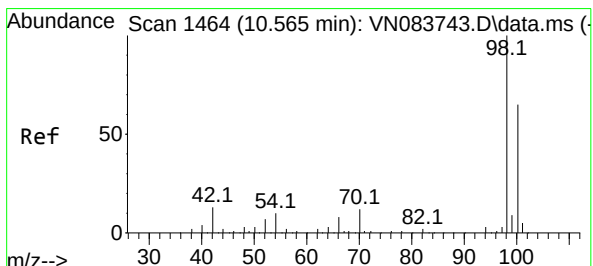
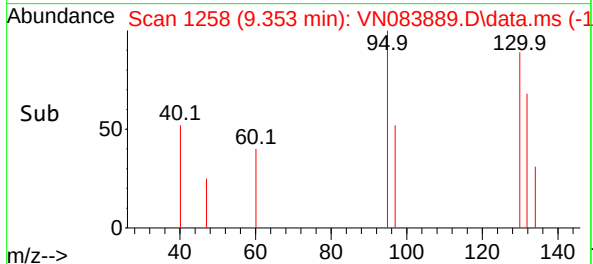
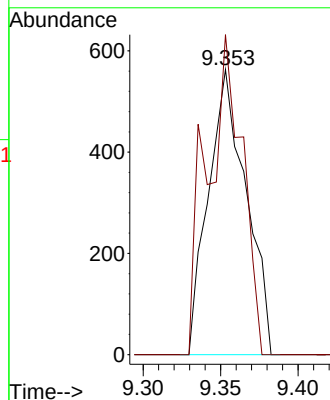
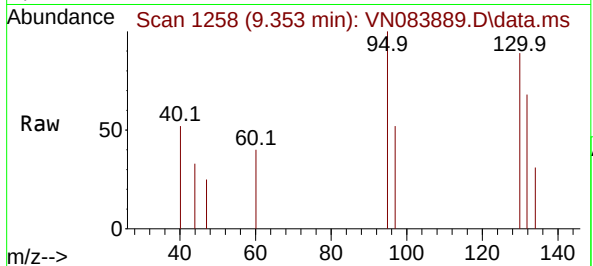




#44  
Trichloroethene  
Concen: 0.487 ug/l  
RT: 9.353 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

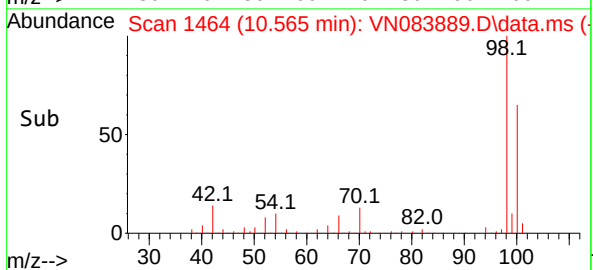
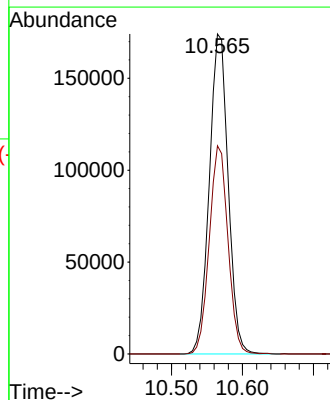
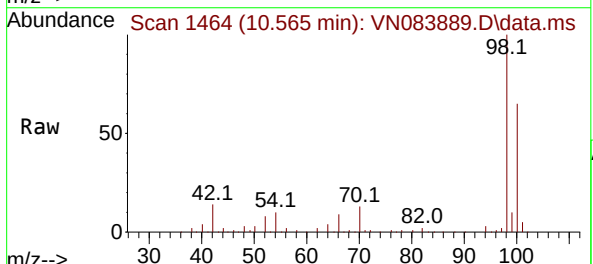
Instrument :  
MSVOA\_N  
ClientSampleId :

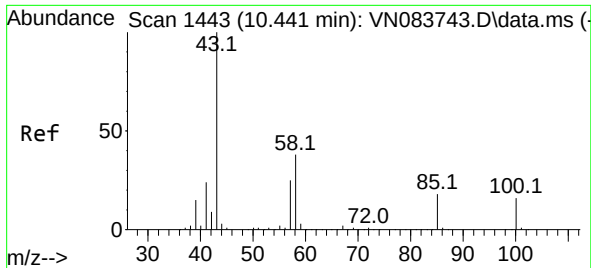
Tgt Ion:130 Resp: 952  
Ion Ratio Lower Upper  
130 100  
95 112.3 0.0 200.4



#50  
Toluene-d8  
Concen: 49.791 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

Tgt Ion: 98 Resp: 320736  
Ion Ratio Lower Upper  
98 100  
100 64.5 52.0 78.0

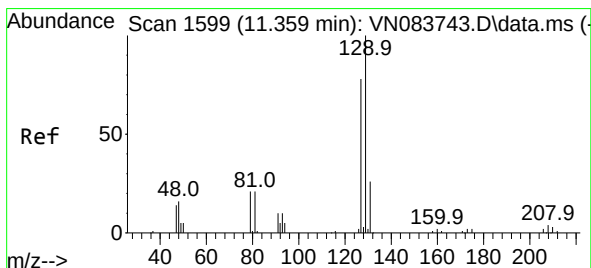
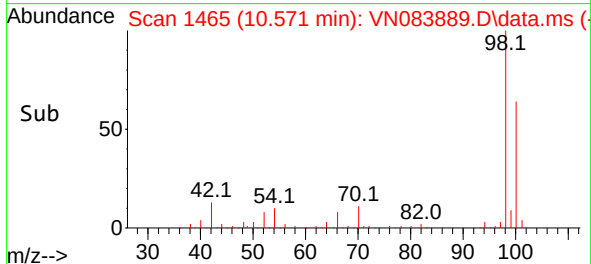
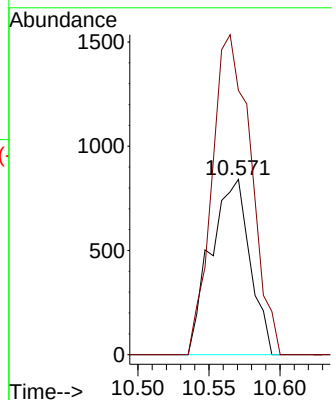
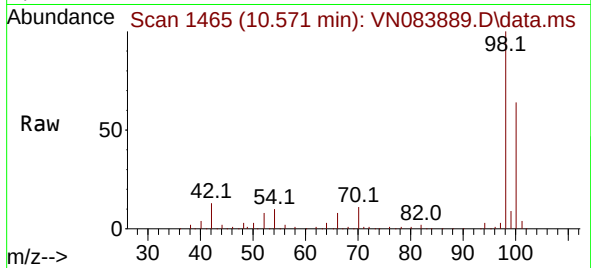




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.644 ug/l  
 RT: 10.571 min Scan# 1443  
 Delta R.T. 0.129 min  
 Lab File: VN083889.D  
 Acq: 14 Sep 2024 14:44

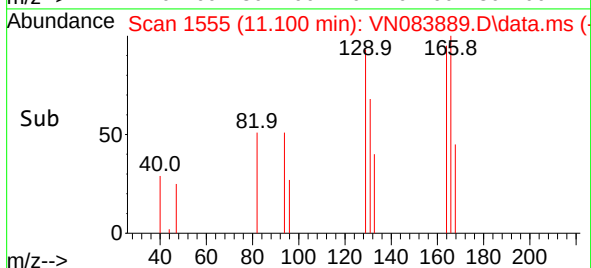
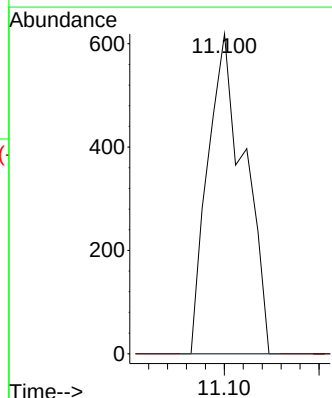
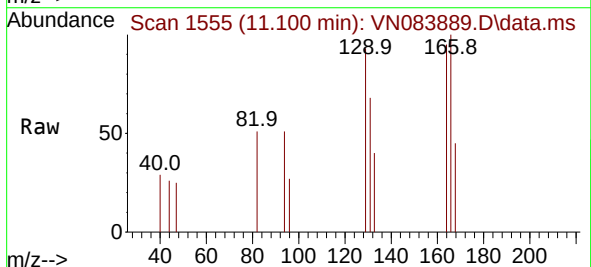
Instrument :  
 MSVOA\_N  
 ClientSampleId :

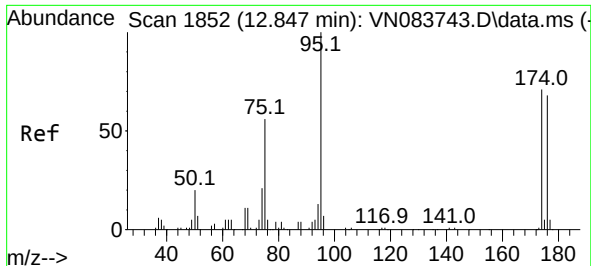
Tgt Ion: 43 Resp: 1617  
 Ion Ratio Lower Upper  
 43 100  
 58 180.8 31.6 47.4#



#60  
 Dibromochloromethane  
 Concen: 0.386 ug/l  
 RT: 11.100 min Scan# 1555  
 Delta R.T. -0.259 min  
 Lab File: VN083889.D  
 Acq: 14 Sep 2024 14:44

Tgt Ion: 129 Resp: 833  
 Ion Ratio Lower Upper  
 129 100  
 127 0.0 39.0 116.9#

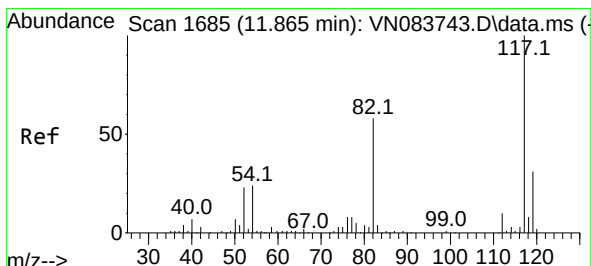
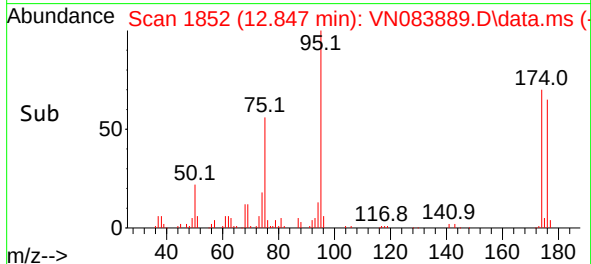
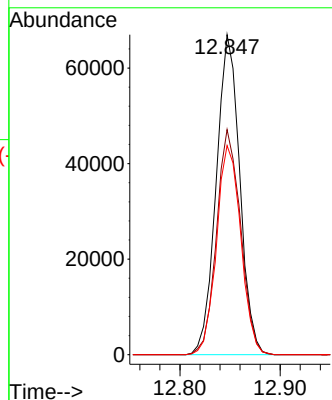
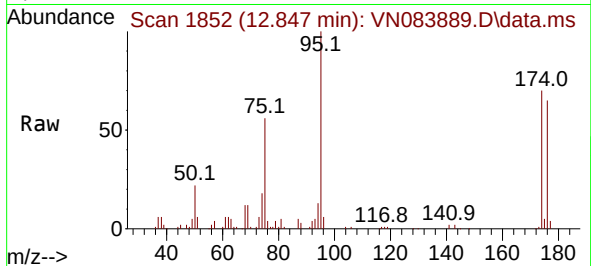




#62  
4-Bromofluorobenzene  
Concen: 41.066 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

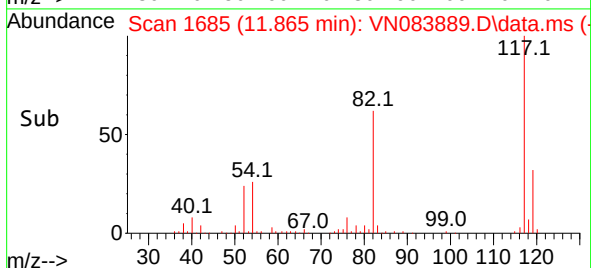
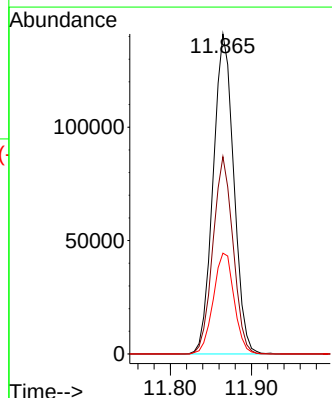
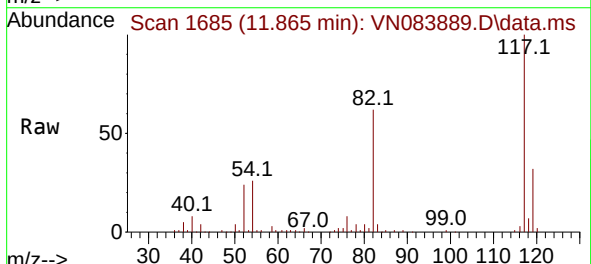
Instrument :  
MSVOA\_N  
ClientSampleId :

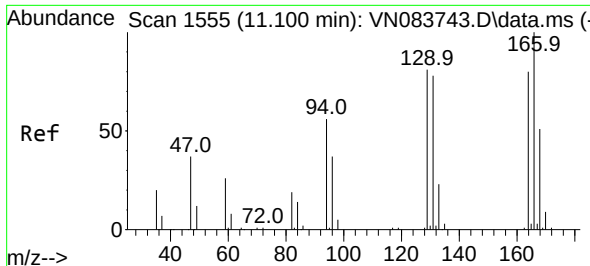
Tgt Ion: 95 Resp: 109138  
Ion Ratio Lower Upper  
95 100  
174 72.0 0.0 139.8  
176 67.5 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

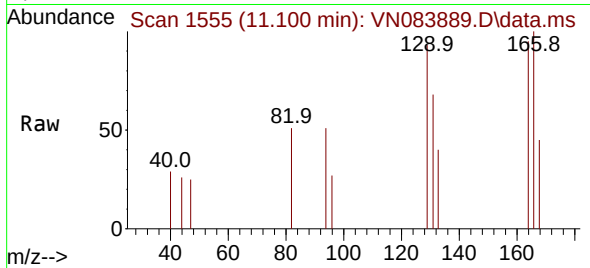
Tgt Ion: 117 Resp: 249385  
Ion Ratio Lower Upper  
117 100  
82 61.6 47.4 71.0  
119 31.5 26.3 39.5



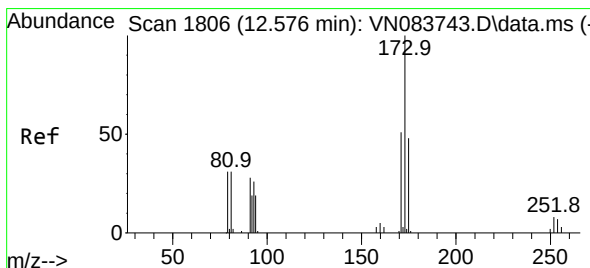
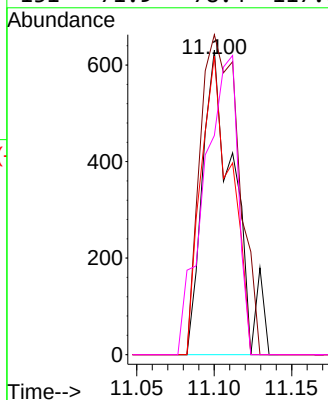
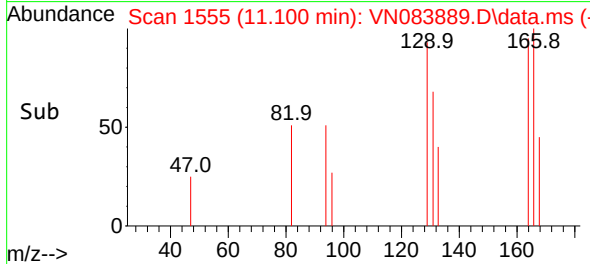


#64  
Tetrachloroethene  
Concen: 0.538 ug/l  
RT: 11.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

Instrument :  
MSVOA\_N  
ClientSampleId :

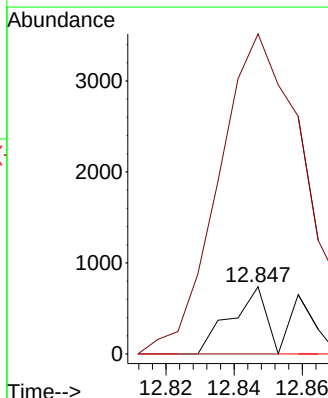
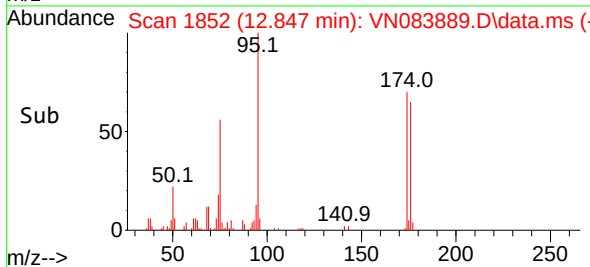
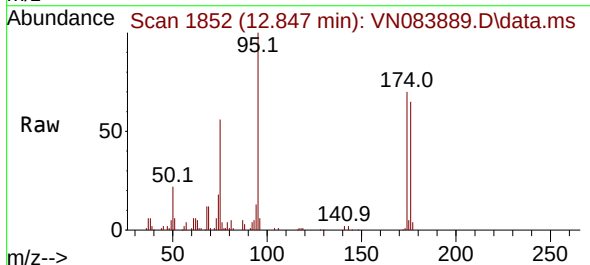


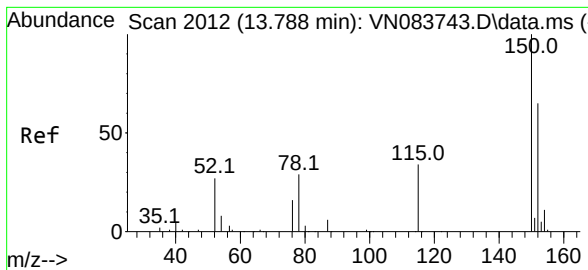
Tgt Ion:164 Resp: 893  
Ion Ratio Lower Upper  
164 100  
166 105.1 103.7 155.5  
129 98.1 79.9 119.9  
131 71.9 78.4 117.6#



#71  
Bromoform  
Concen: 0.411 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.271 min  
Lab File: VN083889.D  
Acq: 14 Sep 2024 14:44

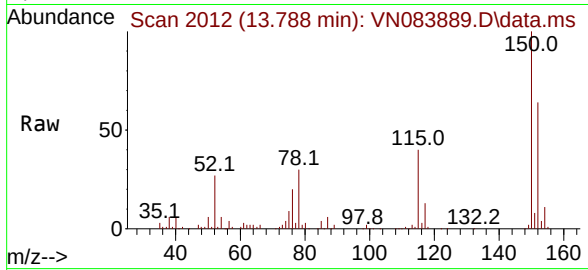
Tgt Ion:173 Resp: 532  
Ion Ratio Lower Upper  
173 100  
175 841.7 24.1 72.2#  
254 0.0 0.0 0.0



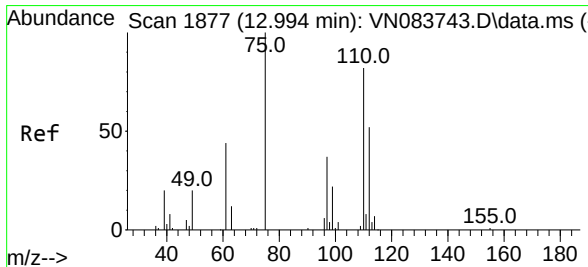
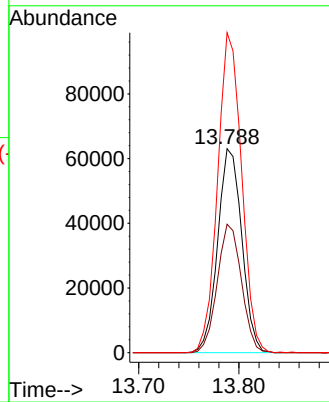
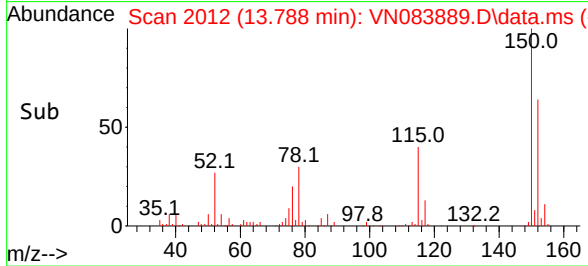


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.788 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN083889.D  
 Acq: 14 Sep 2024 14:44

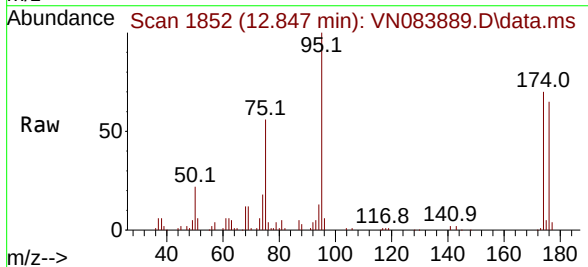
Instrument :  
 MSVOA\_N  
 ClientSampleId :



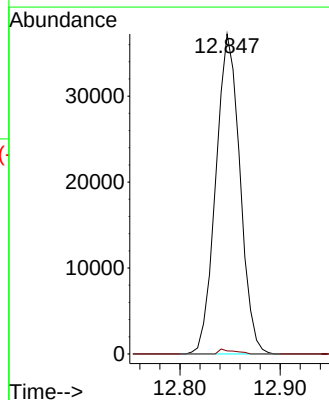
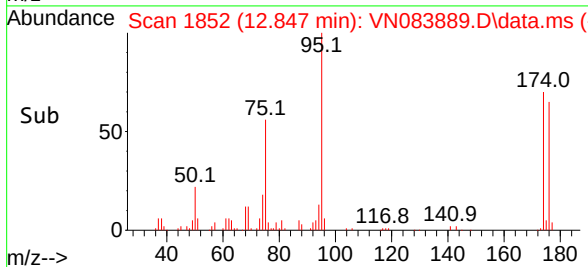
Tgt Ion:152 Resp: 105461  
 Ion Ratio Lower Upper  
 152 100  
 115 63.0 32.2 96.6  
 150 156.0 0.0 348.6

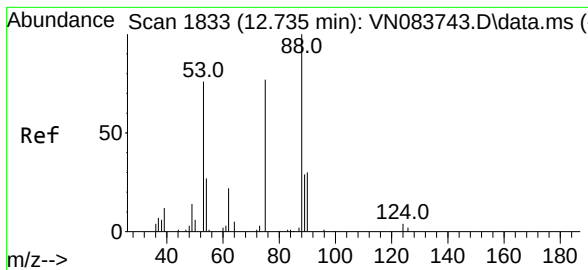


#76  
 1,2,3-Trichloropropane  
 Concen: 29.254 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.147 min  
 Lab File: VN083889.D  
 Acq: 14 Sep 2024 14:44



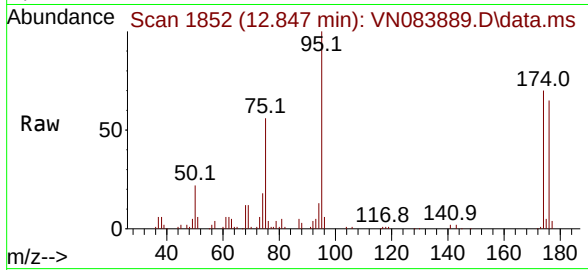
Tgt Ion: 75 Resp: 62253  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 95.2 285.6#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 76.619 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN083889.D  
 Acq: 14 Sep 2024 14:44

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 62253  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 81.2 121.8#  
 89 0.0 35.7 53.5#

