

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081524\  
 Data File : VN083330.D  
 Acq On : 15 Aug 2024 14:47  
 Operator : JC\MD  
 Sample : P3620-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 16 01:51:41 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080724W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 08 06:30:41 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.224  | 168  | 125076   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 247756   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 257447   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.794 | 152  | 113139   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.583  | 65    | 104550   | 58.726   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 117.460% |
| 35) Dibromofluoromethane    | 8.171  | 113   | 83300    | 53.866   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 107.740% |
| 50) Toluene-d8              | 10.565 | 98    | 306251   | 53.089   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 106.180% |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 126941   | 56.445   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 112.900% |

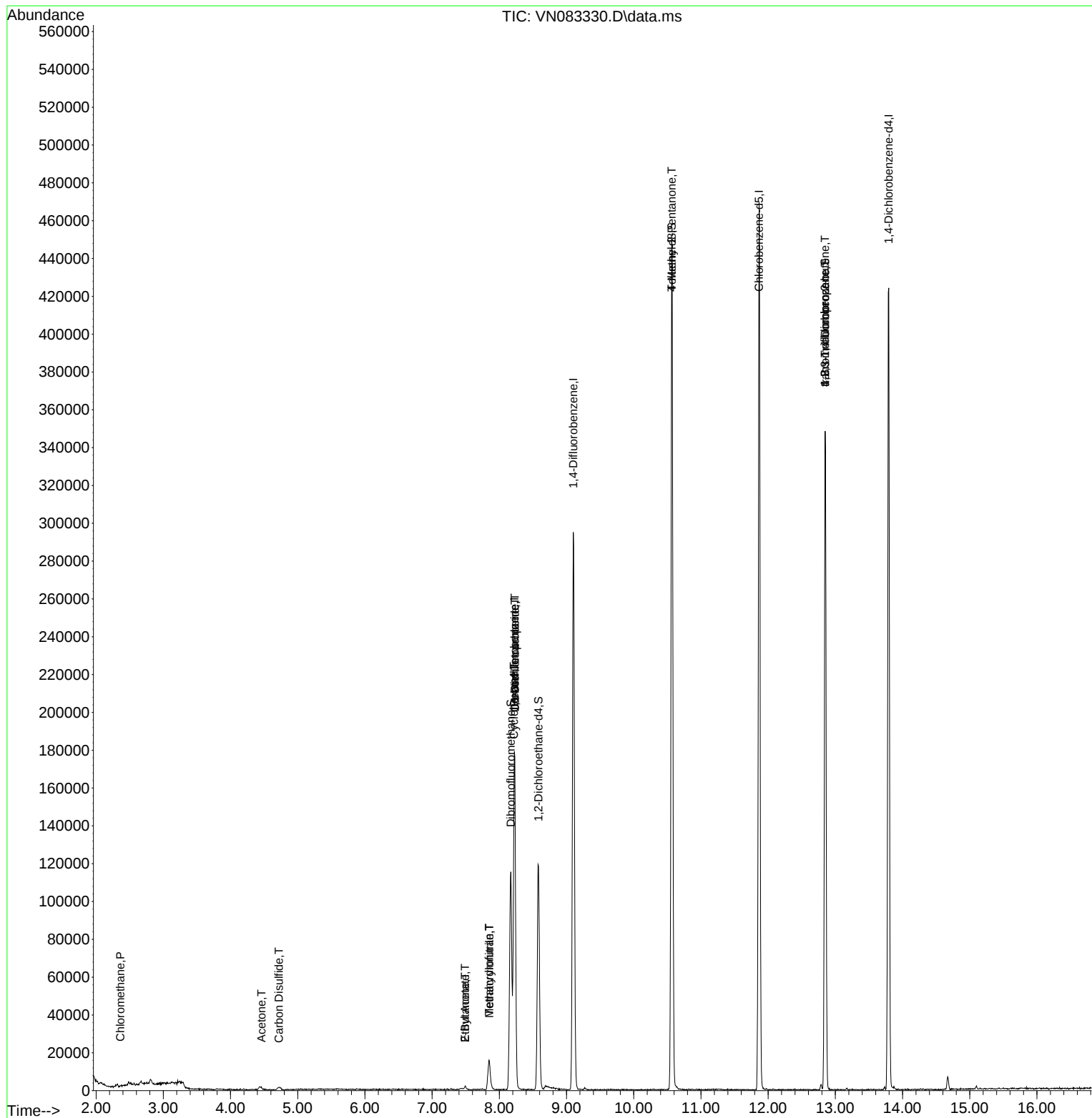
| Target Compounds              |        |     |       |           | Qvalue |    |
|-------------------------------|--------|-----|-------|-----------|--------|----|
| 3) Chloromethane              | 2.359  | 50  | 390   | 0.269     | ug/l # | 43 |
| 16) Acetone                   | 4.459  | 43  | 3005  | 4.314     | ug/l # | 89 |
| 17) Carbon Disulfide          | 4.718  | 76  | 1433  | 0.353     | ug/l # | 75 |
| 25) 2-Butanone                | 7.489  | 43  | 2465  | 2.304     | ug/l   | 91 |
| 29) Tetrahydrofuran           | 7.847  | 42  | 12458 | 18.017    | ug/l   | 90 |
| 31) Cyclohexane               | 8.218  | 56  | 3093  | 1.172     | ug/l # | 1  |
| 36) 1,1-Dichloropropene       | 8.230  | 75  | 11770 | 5.031     | ug/l # | 51 |
| 37) Ethyl Acetate             | 7.489  | 43  | 2465  | 0.941     | ug/l # | 84 |
| 38) Carbon Tetrachloride      | 8.230  | 117 | 14466 | 5.490     | ug/l # | 17 |
| 41) Methacrylonitrile         | 7.853  | 41  | 7510  | 5.043     | ug/l # | 50 |
| 43) Isopropyl Acetate         | 8.683  | 43  | 1242  | Below Cal | #      | 60 |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43  | 1630  | 0.658     | ug/l # | 1  |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75  | 69805 | 28.112    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75  | 69805 | 61.150    | ug/l # | 6  |

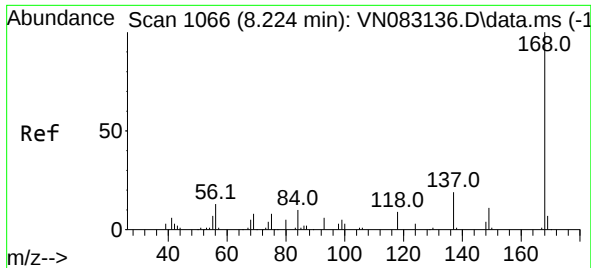
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Aug 16 01:51:41 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N080724W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 08 06:30:41 2024  
Response via : Initial Calibration

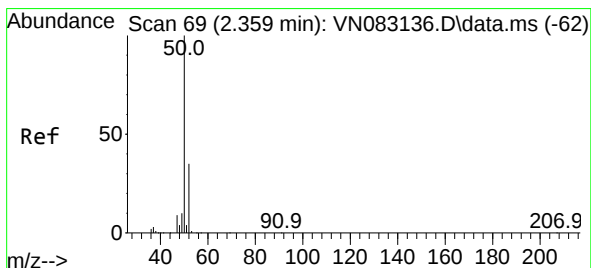
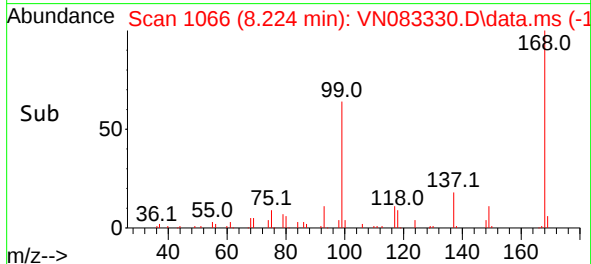
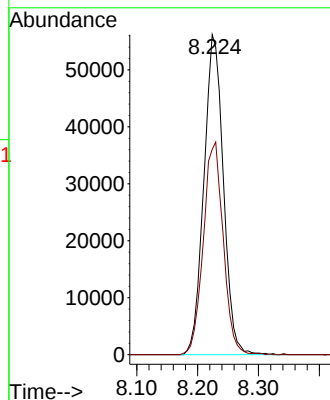
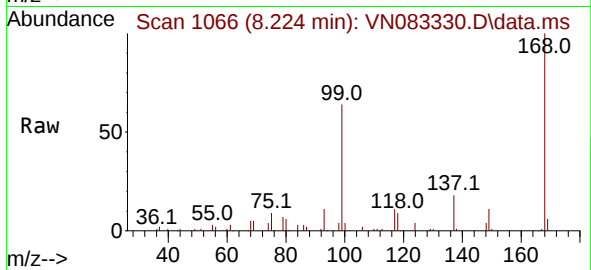




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.000 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

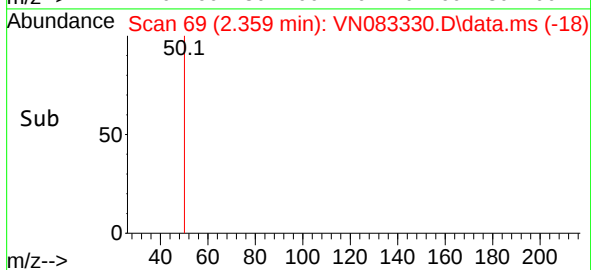
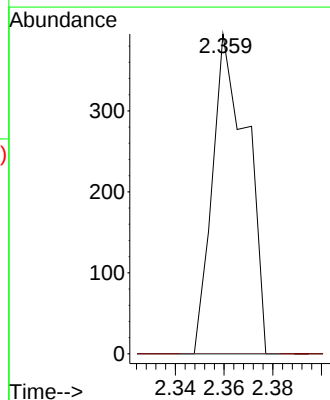
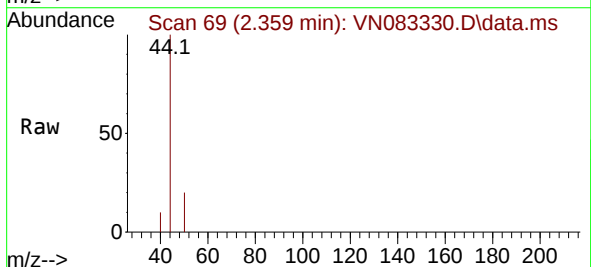
Instrument :  
MSVOA\_N  
ClientSampleId :

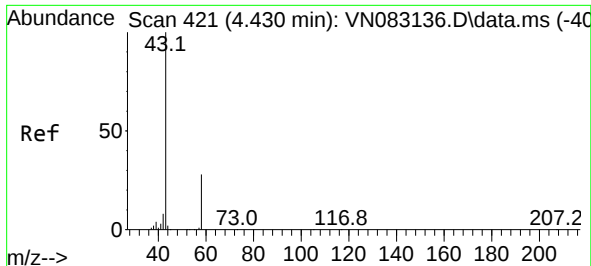
Tgt Ion:168 Resp: 125076  
Ion Ratio Lower Upper  
168 100  
99 64.2 48.2 72.4



#3  
Chloromethane  
Concen: 0.269 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

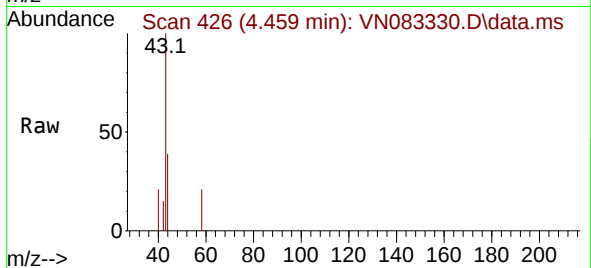
Tgt Ion: 50 Resp: 390  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.0 37.4#



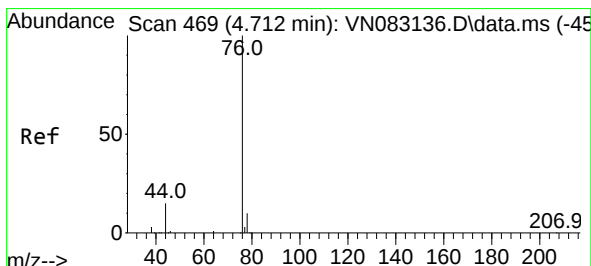
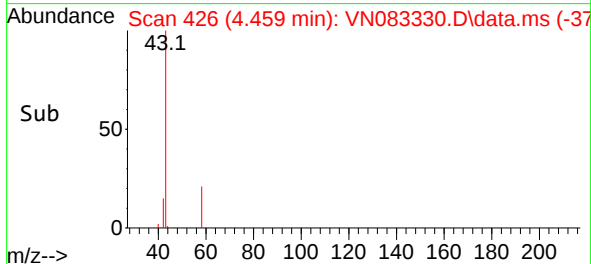
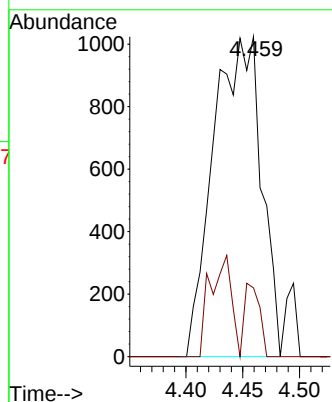


#16  
Acetone  
Concen: 4.314 ug/l  
RT: 4.459 min Scan# 41  
Delta R.T. 0.030 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Instrument :  
MSVOA\_N  
ClientSampleId :

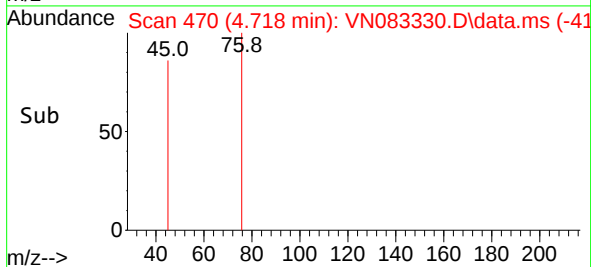
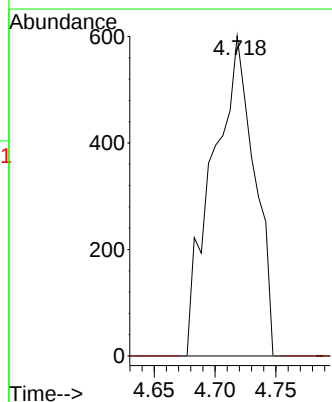
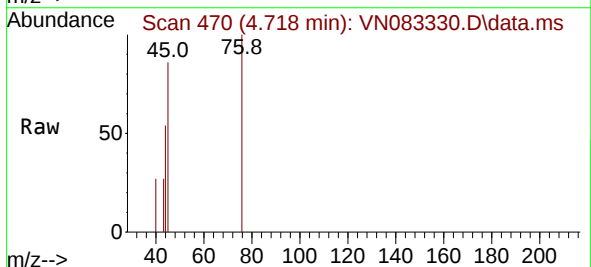


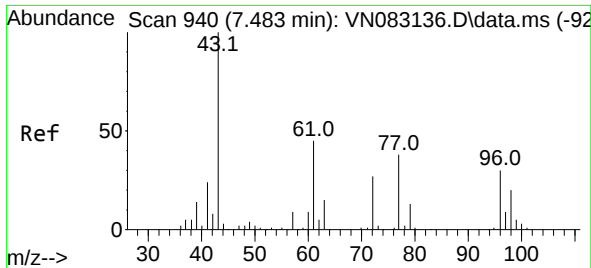
Tgt Ion: 43 Resp: 3005  
Ion Ratio Lower Upper  
43 100  
58 21.5 21.8 32.6#



#17  
Carbon Disulfide  
Concen: 0.353 ug/l  
RT: 4.718 min Scan# 470  
Delta R.T. 0.006 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Tgt Ion: 76 Resp: 1433  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#

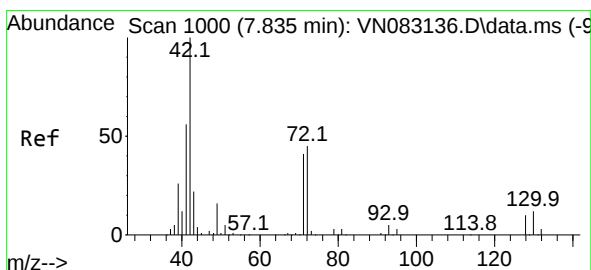
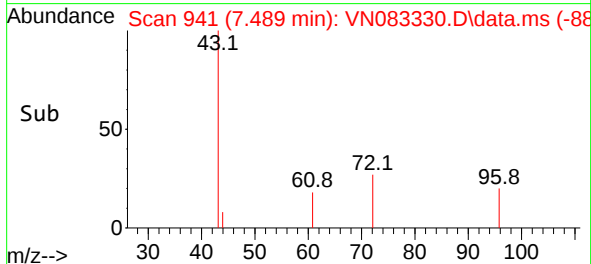
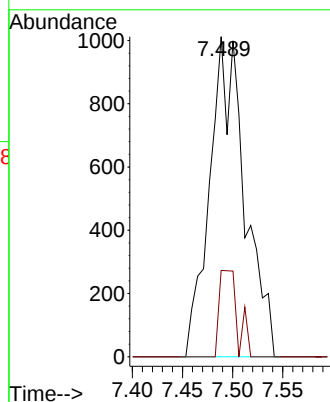
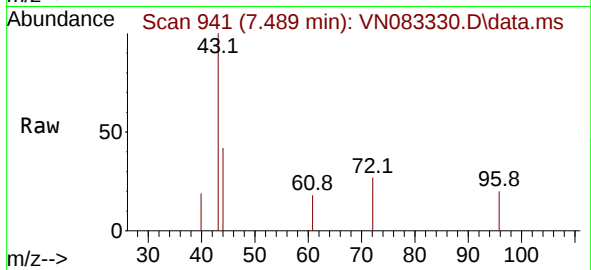




#25  
2-Butanone  
Concen: 2.304 ug/l  
RT: 7.489 min Scan# 941  
Delta R.T. 0.006 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

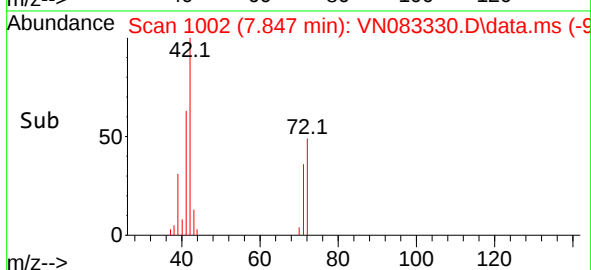
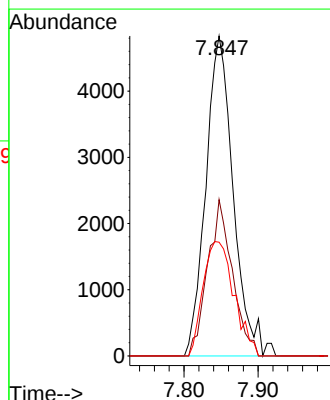
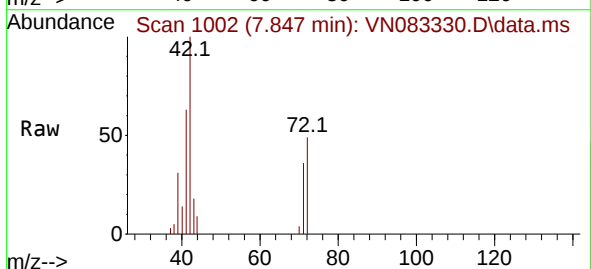
Instrument :  
MSVOA\_N  
ClientSampleId :

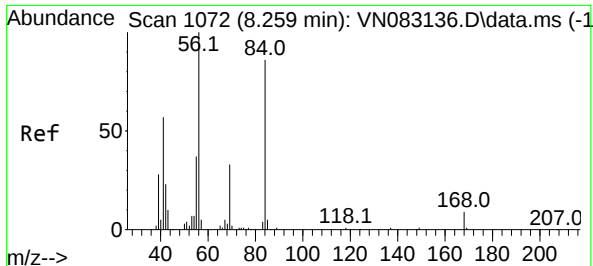
Tgt Ion: 43 Resp: 2465  
Ion Ratio Lower Upper  
43 100  
72 27.0 18.2 27.2



#29  
Tetrahydrofuran  
Concen: 18.017 ug/l  
RT: 7.847 min Scan# 1002  
Delta R.T. 0.012 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

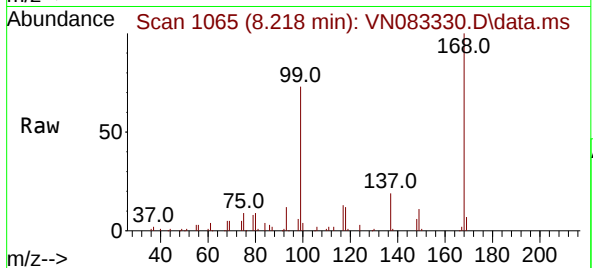
Tgt Ion: 42 Resp: 12458  
Ion Ratio Lower Upper  
42 100  
72 44.1 30.0 45.0  
71 40.1 28.3 42.5



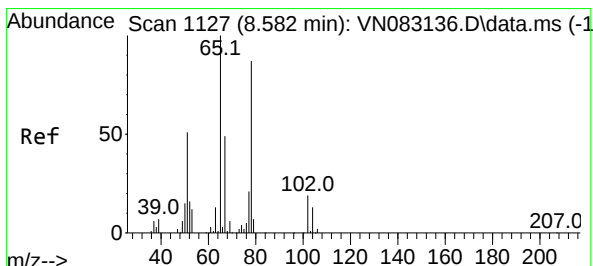
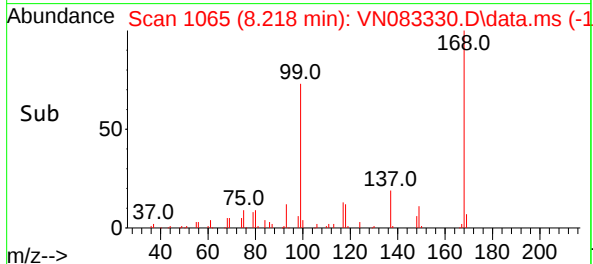
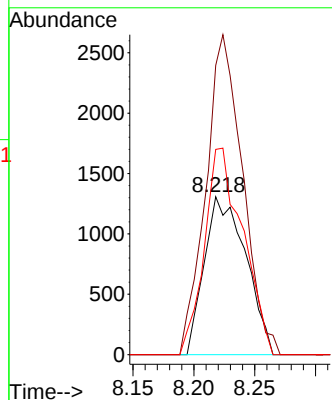


#31  
Cyclohexane  
Concen: 1.172 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.041 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Instrument :  
MSVOA\_N  
ClientSampleId :

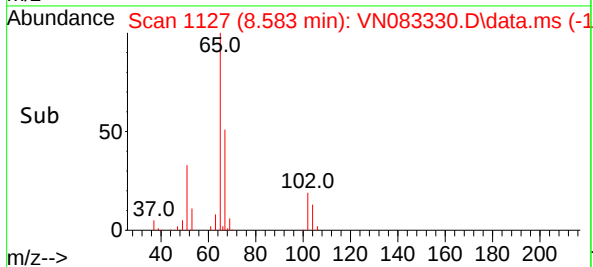
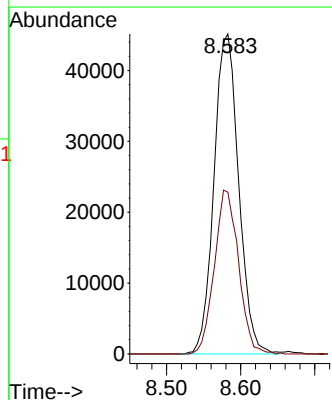
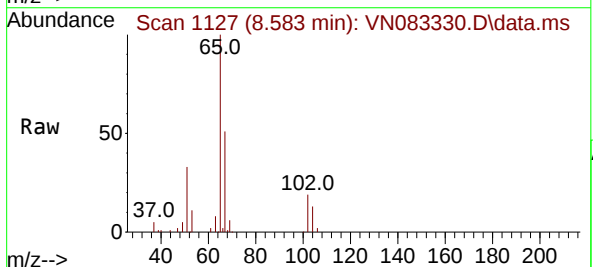


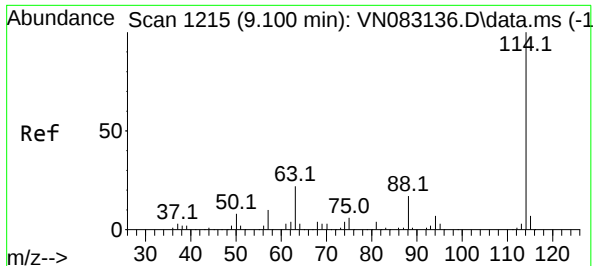
Tgt Ion: 56 Resp: 3093  
Ion Ratio Lower Upper  
56 100  
69 183.2 24.5 36.7#  
84 130.1 66.0 99.0#



#33  
1,2-Dichloroethane-d4  
Concen: 58.726 ug/l  
RT: 8.583 min Scan# 1127  
Delta R.T. 0.001 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

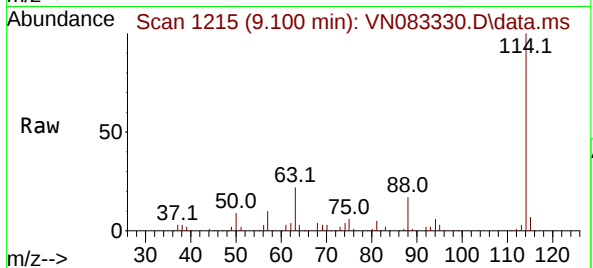
Tgt Ion: 65 Resp: 104550  
Ion Ratio Lower Upper  
65 100  
67 50.1 0.0 104.4



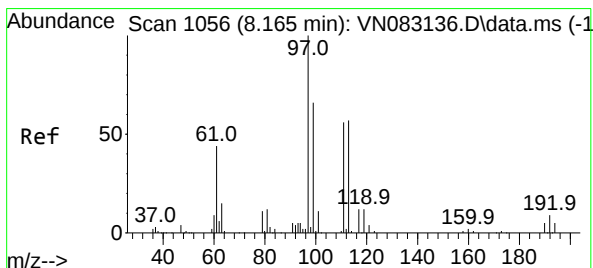
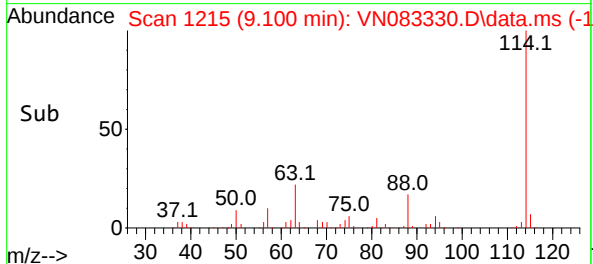
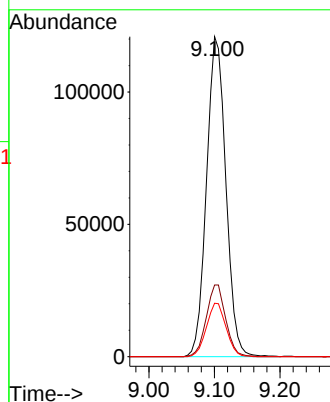


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Instrument :  
MSVOA\_N  
ClientSampleId :

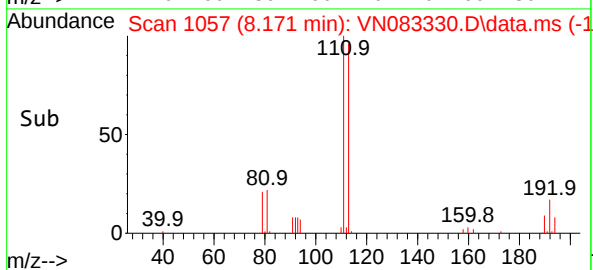
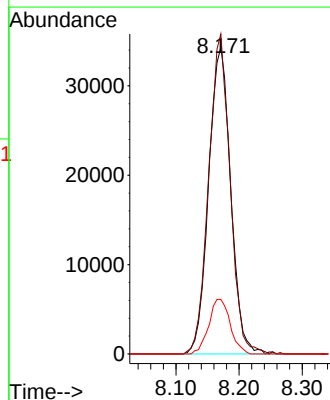
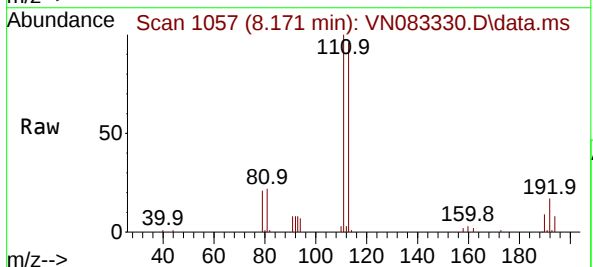


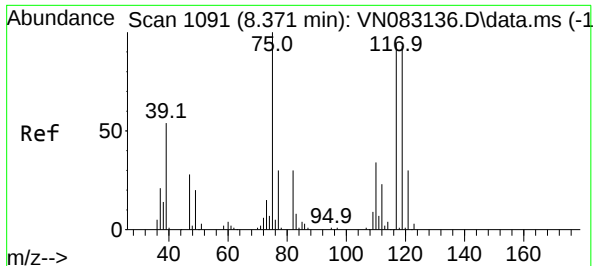
Tgt Ion:114 Resp: 247756  
Ion Ratio Lower Upper  
114 100  
63 22.4 0.0 44.6  
88 16.7 0.0 31.4



#35  
Dibromofluoromethane  
Concen: 53.866 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Tgt Ion:113 Resp: 83300  
Ion Ratio Lower Upper  
113 100  
111 101.3 82.4 123.6  
192 17.3 14.9 22.3





#36

1,1-Dichloropropene

Concen: 5.031 ug/l

RT: 8.230 min Scan# 1091

Delta R.T. -0.141 min

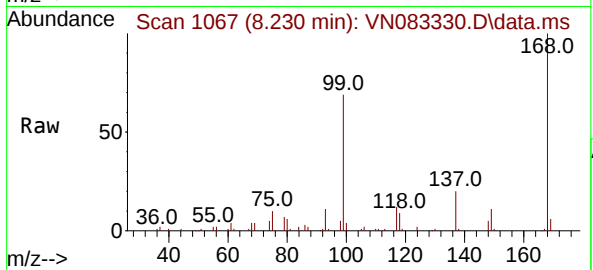
Lab File: VN083330.D

Acq: 15 Aug 2024 14:47

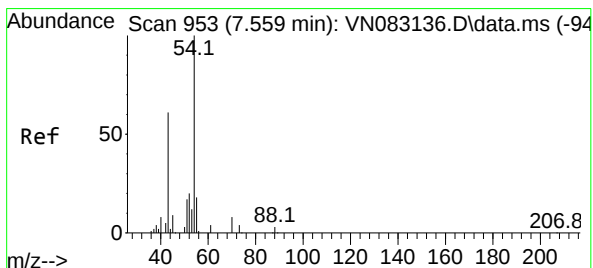
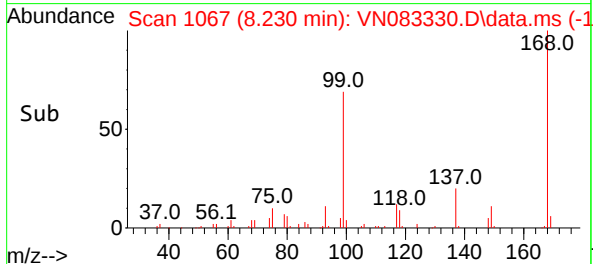
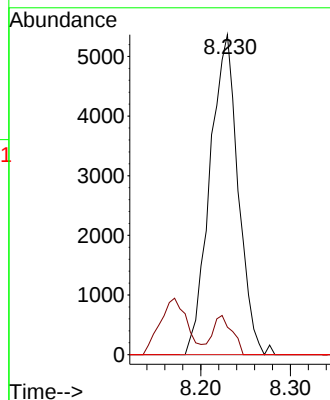
Instrument :

MSVOA\_N

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 11770    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 110         | 8.6 16.3 48.9# |
| 77          | 0.0 24.6 37.0# |



#37

Ethyl Acetate

Concen: 0.941 ug/l

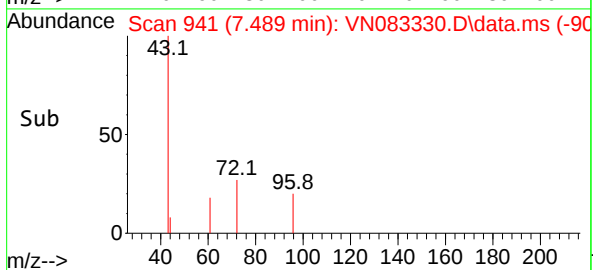
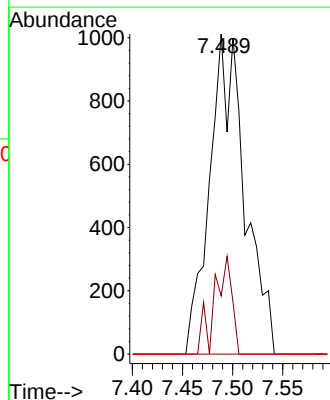
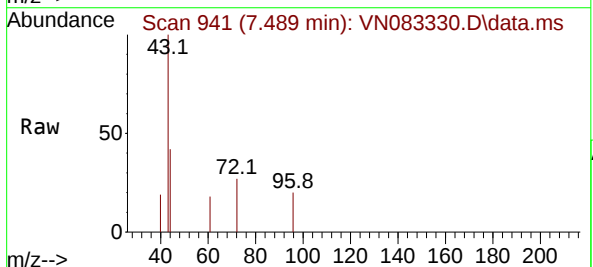
RT: 7.489 min Scan# 941

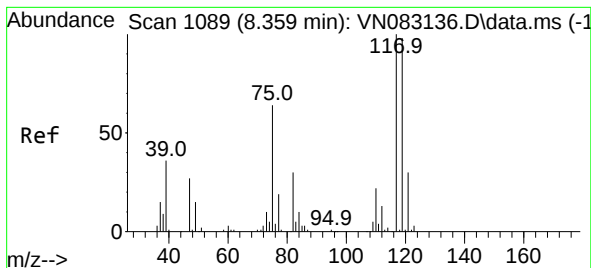
Delta R.T. -0.070 min

Lab File: VN083330.D

Acq: 15 Aug 2024 14:47

|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 2465     |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 61          | 15.4 9.3 13.9# |
| 70          | 0.0 7.0 10.6#  |





#38

Carbon Tetrachloride

Concen: 5.490 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

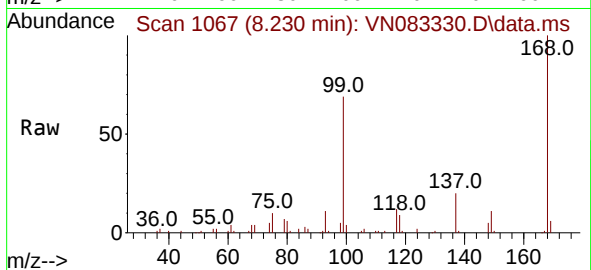
Lab File: VN083330.D

Acq: 15 Aug 2024 14:47

Instrument :

MSVOA\_N

ClientSampleId :



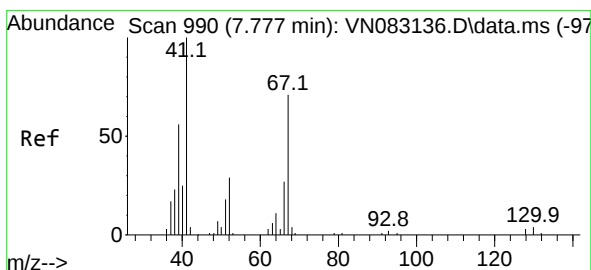
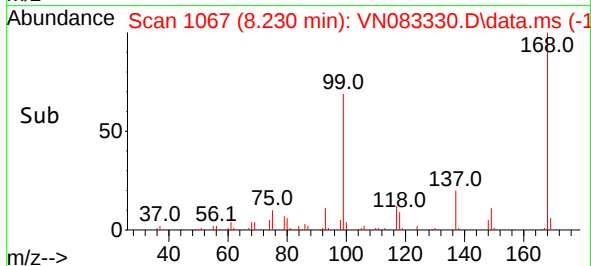
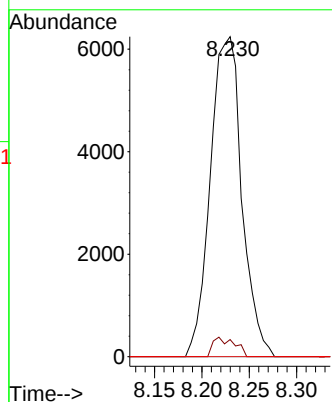
Tgt Ion:117 Resp: 14466

Ion Ratio Lower Upper

117 100

119 5.3 74.9 112.3#

121 0.0 24.3 36.5#



#41

Methacrylonitrile

Concen: 5.043 ug/l

RT: 7.853 min Scan# 1003

Delta R.T. 0.077 min

Lab File: VN083330.D

Acq: 15 Aug 2024 14:47

Tgt Ion: 41 Resp: 7510

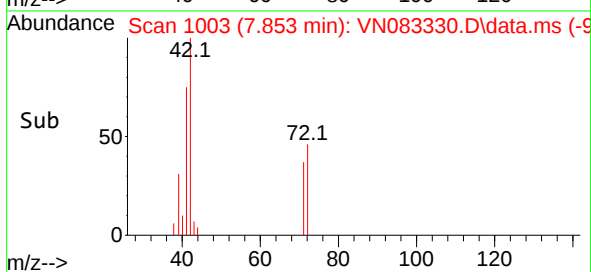
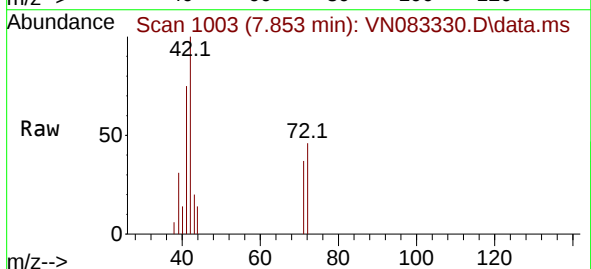
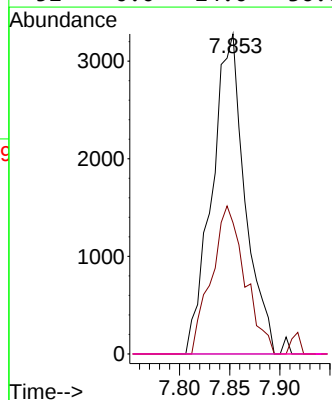
Ion Ratio Lower Upper

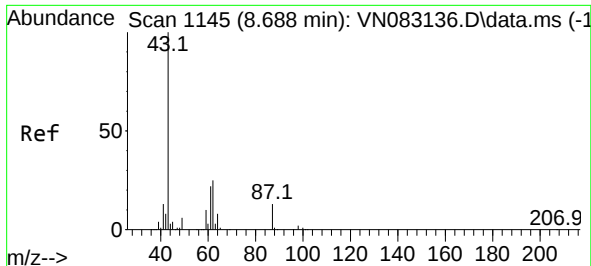
41 100

39 47.0 45.5 68.3

67 0.0 50.5 75.7#

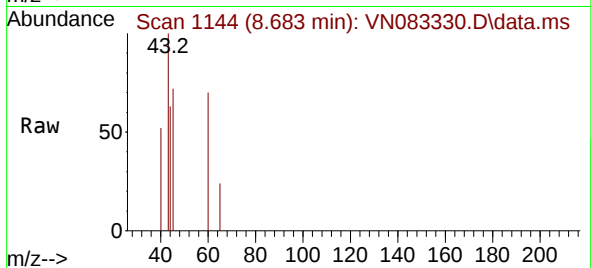
52 0.0 24.0 36.0#



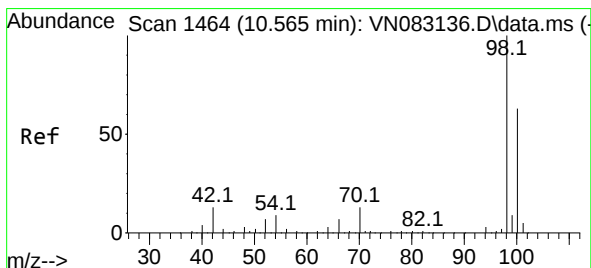
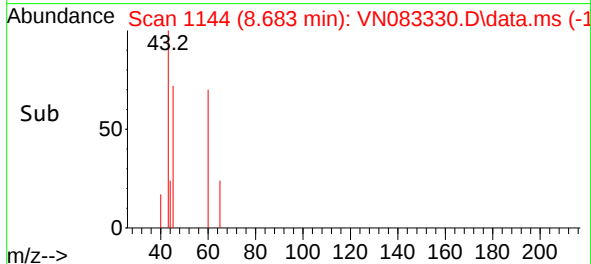
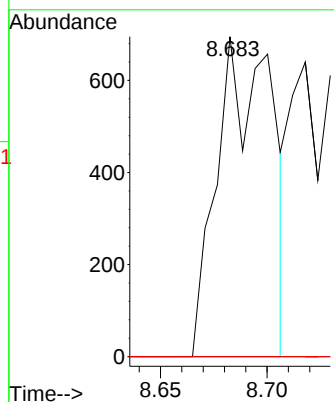


#43  
Isopropyl Acetate  
Concen: Below Cal  
RT: 8.683 min Scan# 1145  
Delta R.T. -0.005 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Instrument :  
MSVOA\_N  
ClientSampleId :

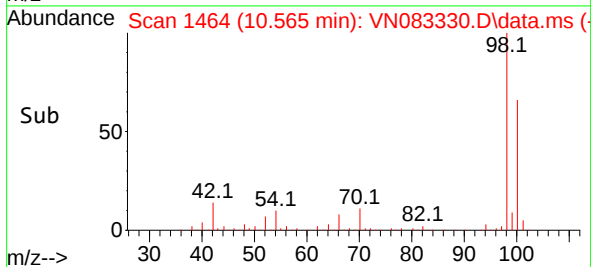
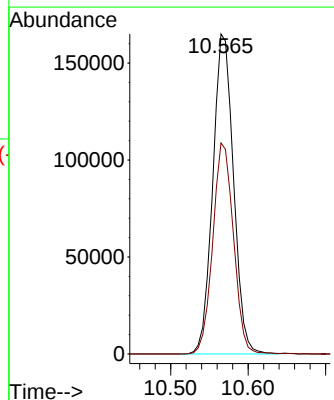
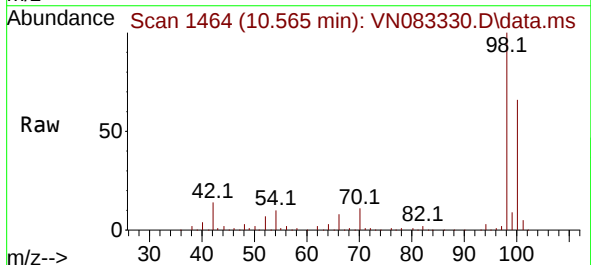


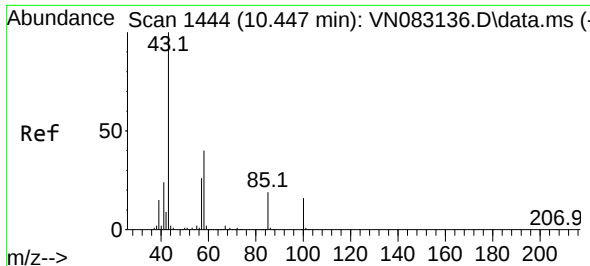
Tgt Ion: 43 Resp: 1242  
Ion Ratio Lower Upper  
43 100  
61 0.0 17.8 26.6#  
87 0.0 8.2 12.2#



#50  
Toluene-d8  
Concen: 53.089 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Tgt Ion: 98 Resp: 306251  
Ion Ratio Lower Upper  
98 100  
100 65.9 51.5 77.3

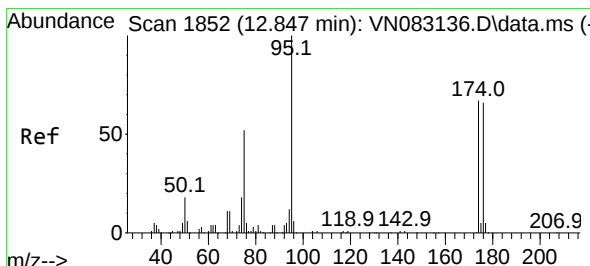
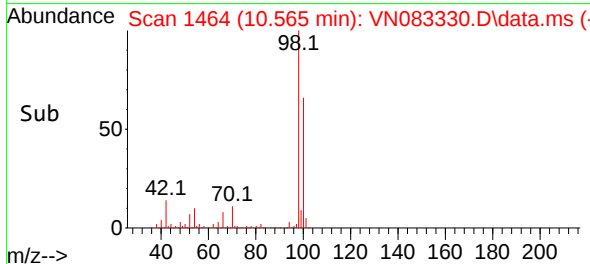
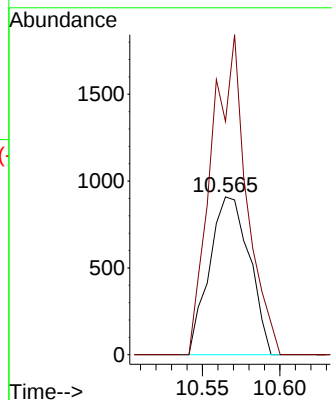
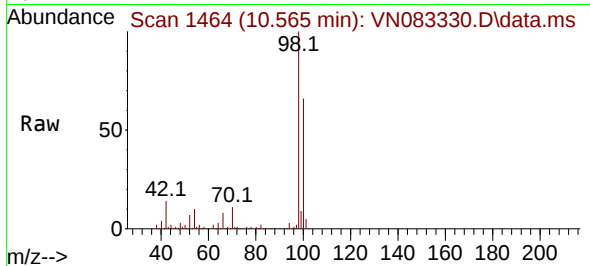




#51  
4-Methyl-2-Pentanone  
Concen: 0.658 ug/l  
RT: 10.565 min Scan# 1444  
Delta R.T. 0.118 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

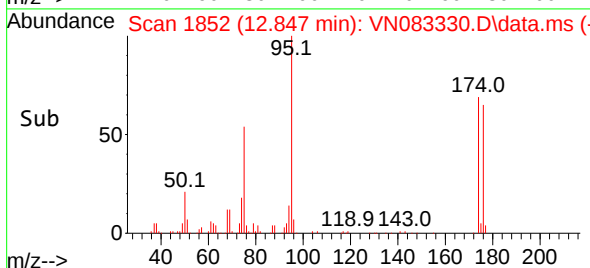
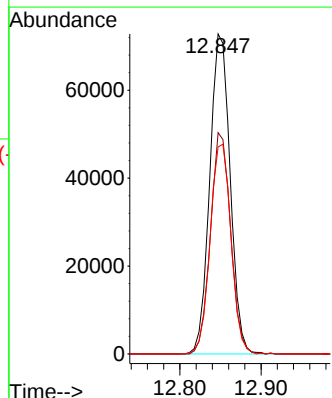
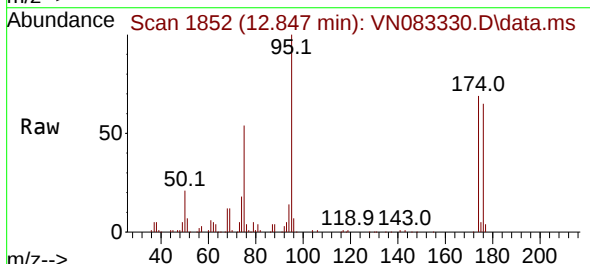
Instrument :  
MSVOA\_N  
ClientSampleId :

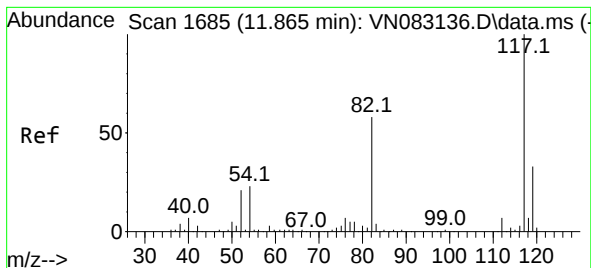
Tgt Ion: 43 Resp: 1630  
Ion Ratio Lower Upper  
43 100  
58 178.7 28.2 42.4#



#62  
4-Bromofluorobenzene  
Concen: 56.445 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Tgt Ion: 95 Resp: 126941  
Ion Ratio Lower Upper  
95 100  
174 68.5 0.0 159.2  
176 67.0 0.0 147.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083330.D

Acq: 15 Aug 2024 14:47

Instrument :

MSVOA\_N

ClientSampleId :

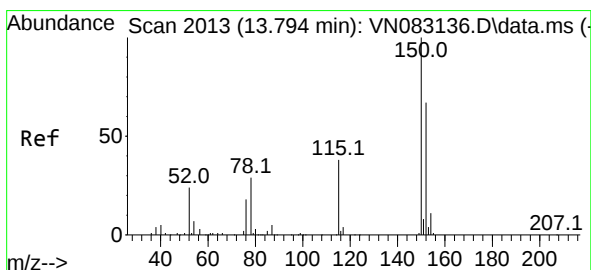
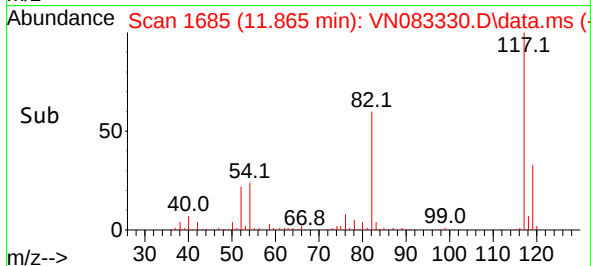
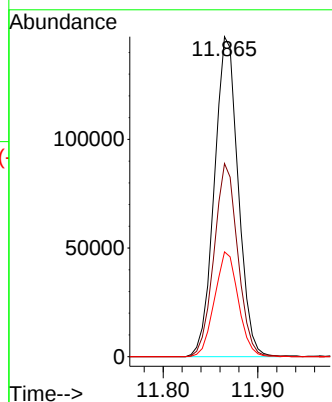
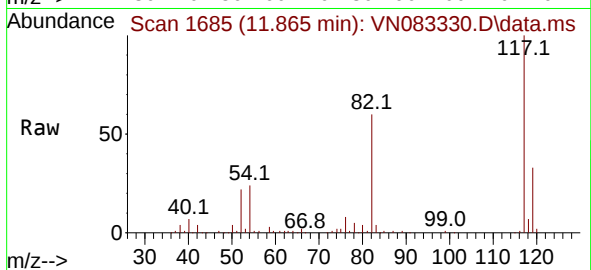
Tgt Ion:117 Resp: 257447

Ion Ratio Lower Upper

117 100

82 60.4 47.5 71.3

119 32.7 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN083330.D

Acq: 15 Aug 2024 14:47

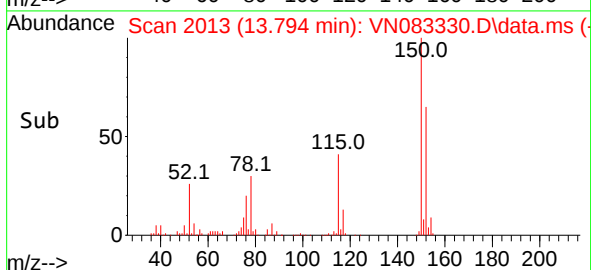
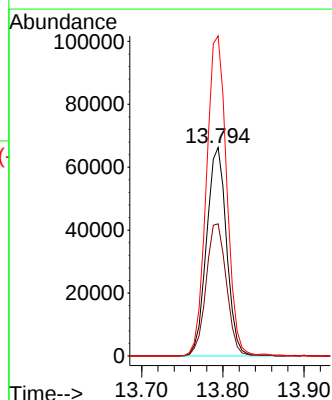
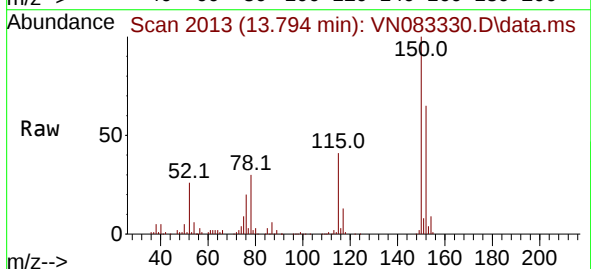
Tgt Ion:152 Resp: 113139

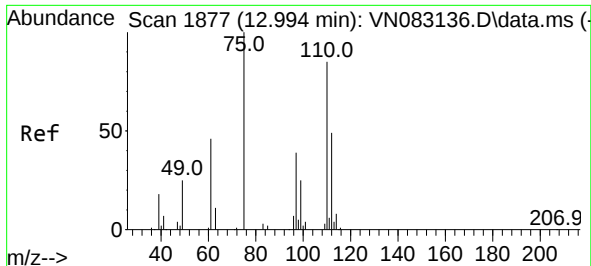
Ion Ratio Lower Upper

152 100

115 64.8 30.6 91.6

150 155.7 0.0 348.6

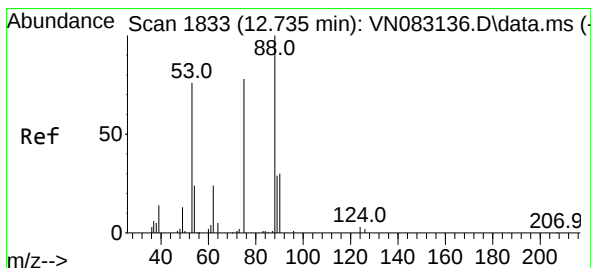
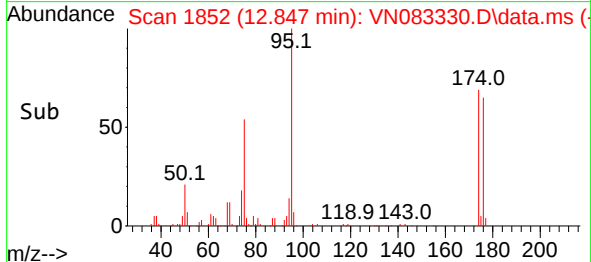
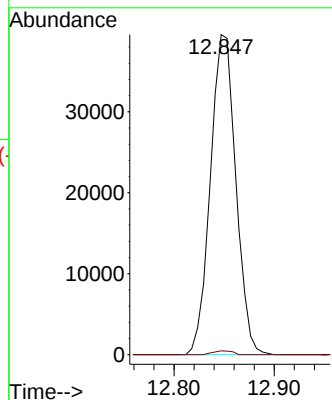
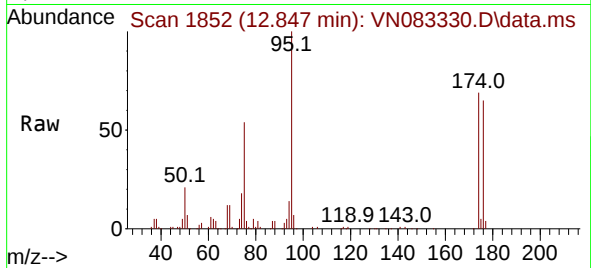




#76  
1,2,3-Trichloropropane  
Concen: 28.112 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion: 75 Resp: 69805  
Ion Ratio Lower Upper  
75 100  
77 0.9 110.9 332.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.150 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN083330.D  
Acq: 15 Aug 2024 14:47

Tgt Ion: 75 Resp: 69805  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.4 132.6#  
89 0.0 36.3 54.5#

