

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121923\  
 Data File : VN080515.D  
 Acq On : 19 Dec 2023 13:12  
 Operator : JC\MD  
 Sample : 05886-07 50X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Dec 20 04:00:43 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121223W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 13 01:57:14 2023  
 Response via : Initial Calibration

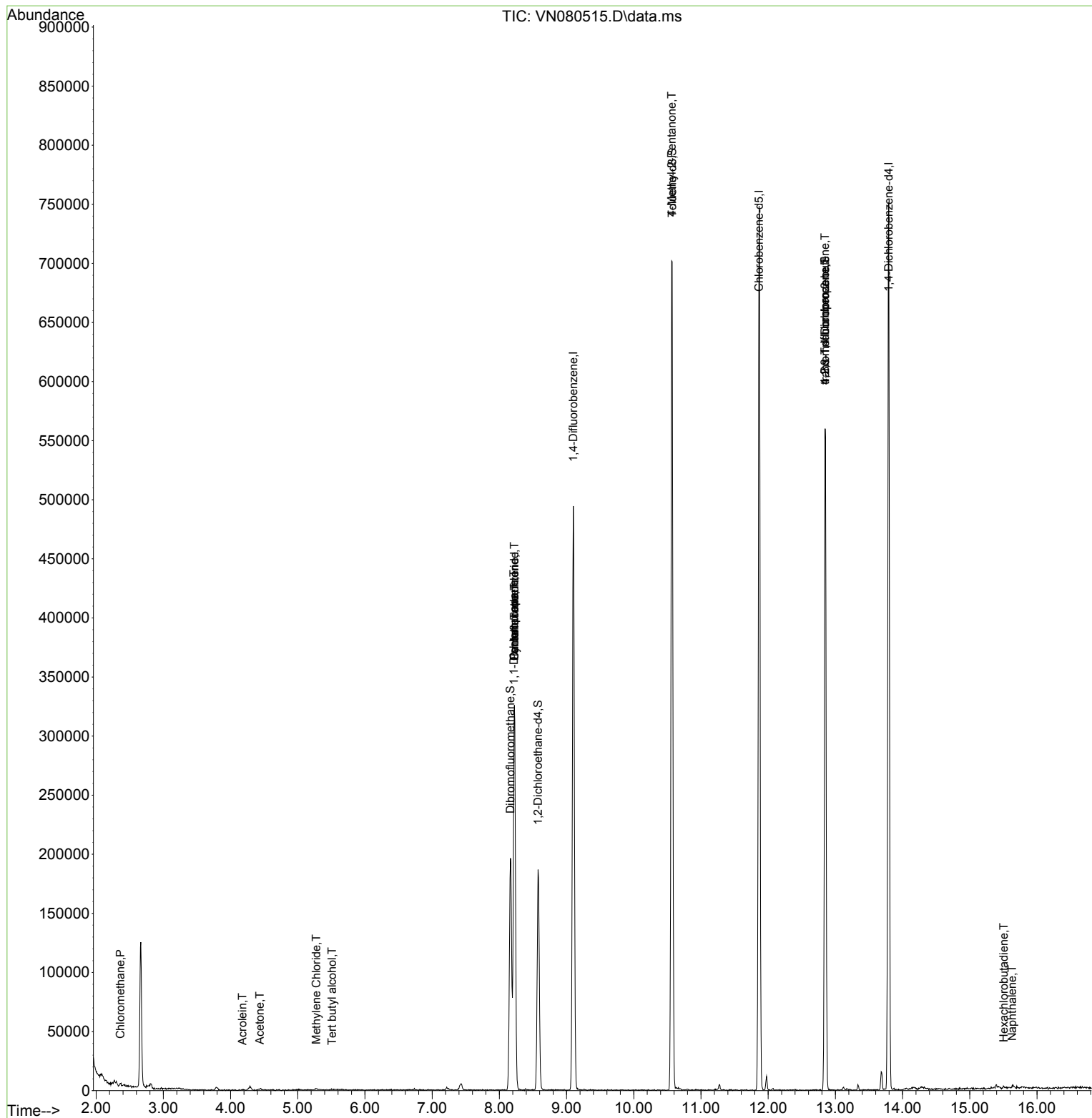
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.224  | 168   | 235002   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 423297   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 439134   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 200092   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 162592   | 54.170   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 108.340% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 139134   | 51.841   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 103.680% |          |
| 50) Toluene-d8                | 10.571 | 98    | 506955   | 50.648   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 101.300% |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 200691   | 52.802   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 105.600% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 3) Chloromethane              | 2.359  | 50    | 3120     | 0.594    | ug/l #     | 85       |
| 11) Tert butyl alcohol        | 5.512  | 59    | 346      | 0.979    | ug/l #     | 72       |
| 13) Acrolein                  | 4.177  | 56    | 232      | 0.599    | ug/l #     | 61       |
| 16) Acetone                   | 4.436  | 43    | 1773     | 3.331    | ug/l       | 100      |
| 20) Methylene Chloride        | 5.277  | 84    | 654      | 0.230    | ug/l #     | 49       |
| 31) Cyclohexane               | 8.224  | 56    | 4833     | 1.184    | ug/l #     | 37       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 18707    | 4.263    | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 27159    | 5.180    | ug/l #     | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43    | 2061     | 0.757    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 109781   | 27.502   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 109781   | 72.209   | ug/l #     | 15       |
| 94) Hexachlorobutadiene       | 15.506 | 225   | 535      | 0.256    | ug/l #     | 65       |
| 95) Naphthalene               | 15.629 | 128   | 2769     | 0.248    | ug/l #     | 80       |
| -----                         |        |       |          |          |            |          |

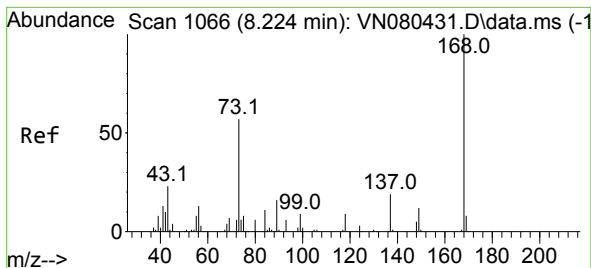
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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Quant Time: Dec 20 04:00:43 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121223W.M  
Quant Title : SW846 8260  
QLast Update : Wed Dec 13 01:57:14 2023  
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: VN080515.D

Acq: 19 Dec 2023 13:12

Instrument :

MSVOA\_N

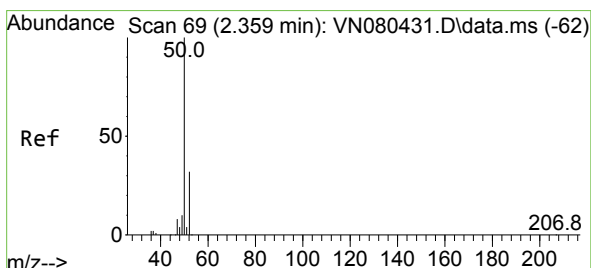
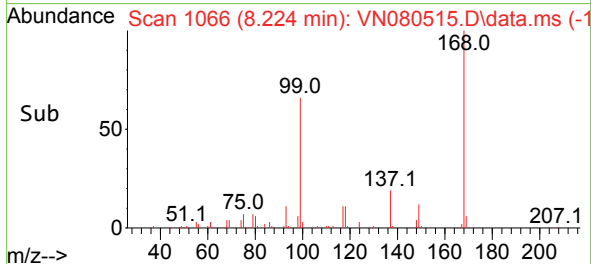
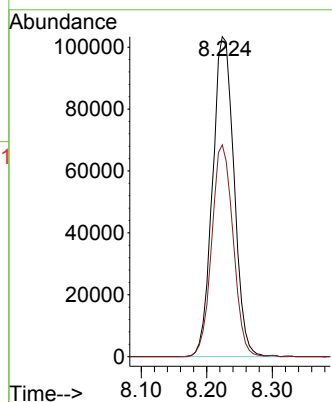
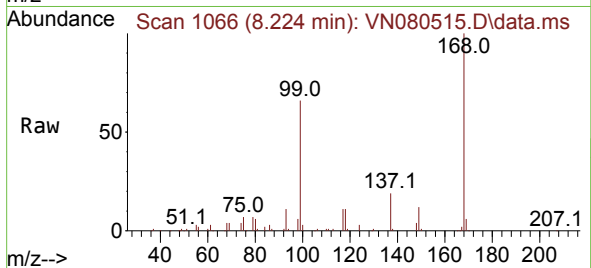
ClientSampleId :

Tgt Ion:168 Resp: 235002

Ion Ratio Lower Upper

168 100

99 66.2 53.0 79.6



#3

Chloromethane

Concen: 0.594 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN080515.D

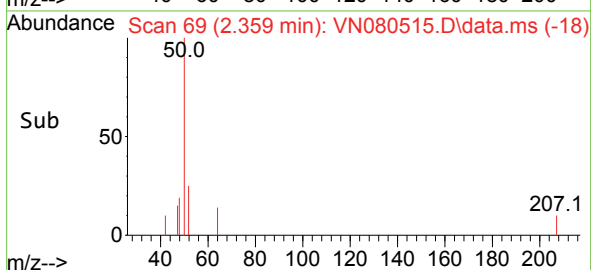
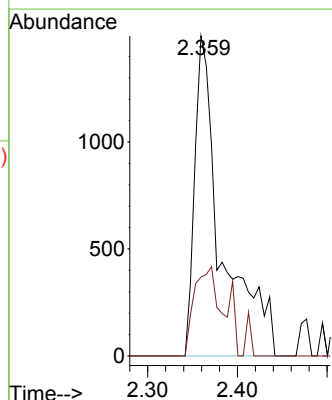
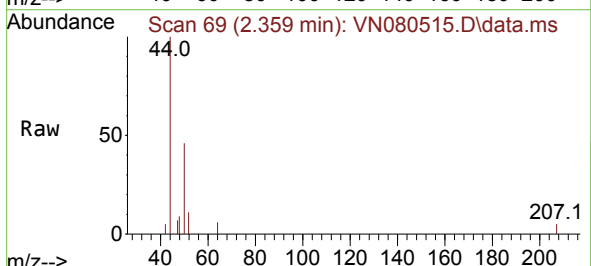
Acq: 19 Dec 2023 13:12

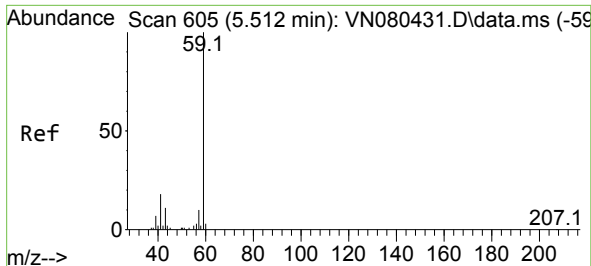
Tgt Ion: 50 Resp: 3120

Ion Ratio Lower Upper

50 100

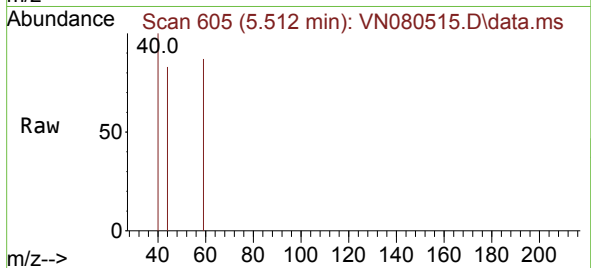
52 24.7 26.5 39.7#



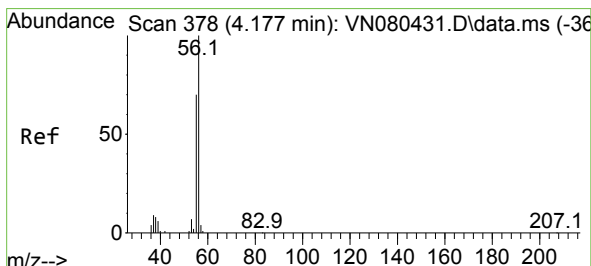
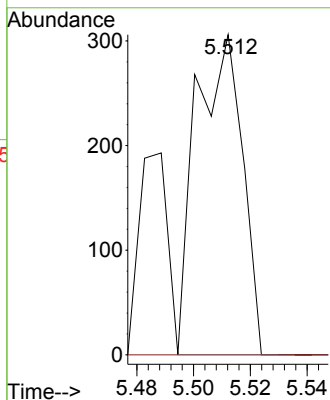
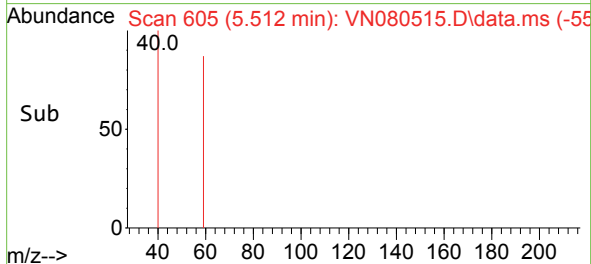


#11  
Tert butyl alcohol  
Concen: 0.979 ug/l  
RT: 5.512 min Scan# 605  
Delta R.T. 0.000 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

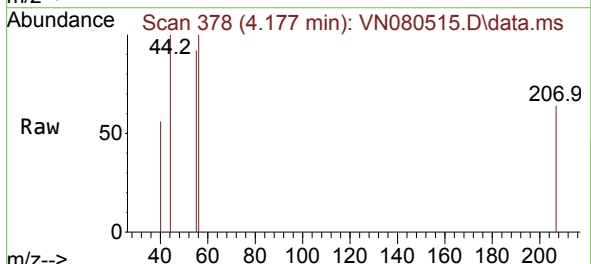
Instrument :  
MSVOA\_N  
ClientSampleId :



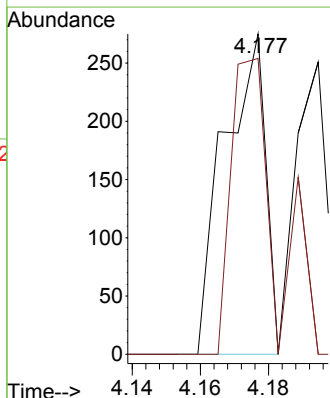
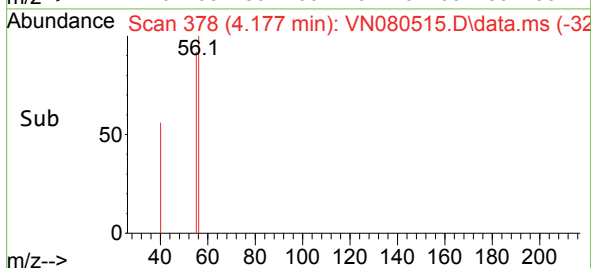
Tgt Ion: 59 Resp: 346  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

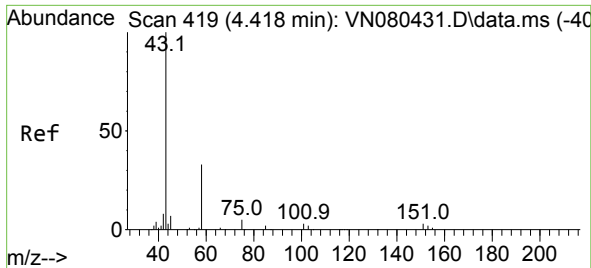


#13  
Acrolein  
Concen: 0.599 ug/l  
RT: 4.177 min Scan# 378  
Delta R.T. 0.000 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12



Tgt Ion: 56 Resp: 232  
Ion Ratio Lower Upper  
56 100  
55 99.6 54.5 81.7#

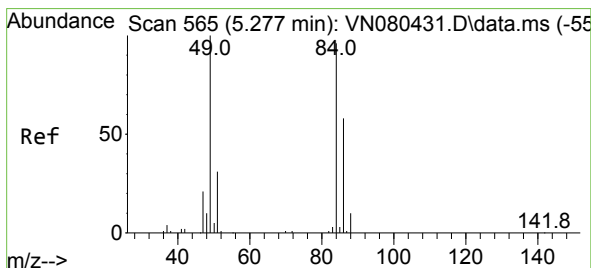
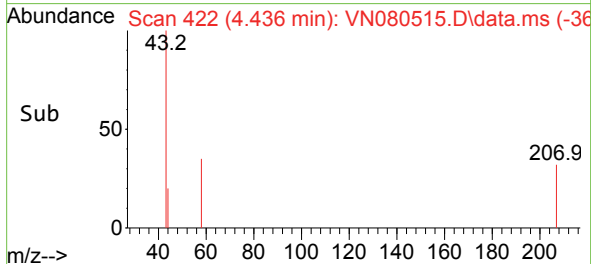
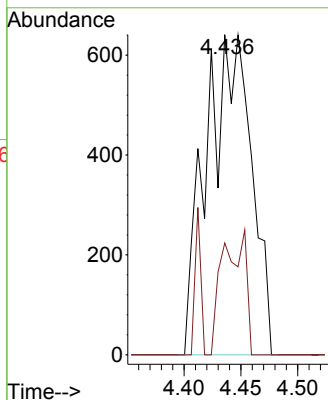
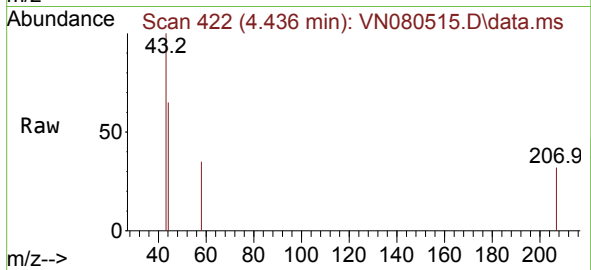




#16  
Acetone  
Concen: 3.331 ug/l  
RT: 4.436 min Scan# 419  
Delta R.T. 0.018 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

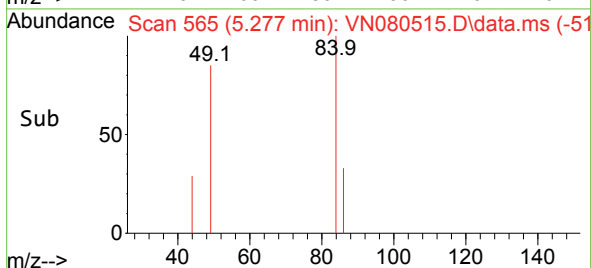
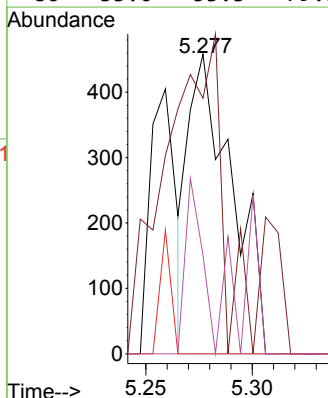
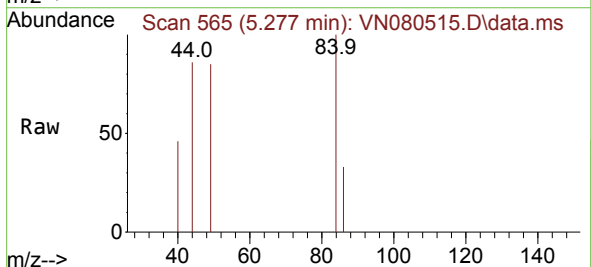
Instrument :  
MSVOA\_N  
ClientSampleId :

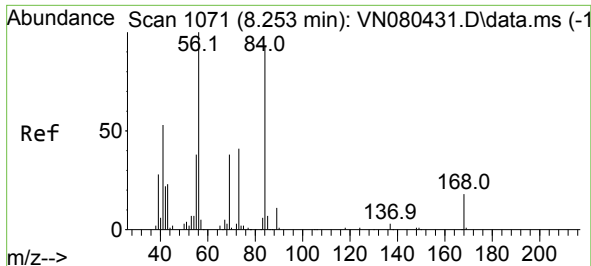
Tgt Ion: 43 Resp: 1773  
Ion Ratio Lower Upper  
43 100  
58 34.9 28.0 42.0



#20  
Methylene Chloride  
Concen: 0.230 ug/l  
RT: 5.277 min Scan# 565  
Delta R.T. 0.000 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

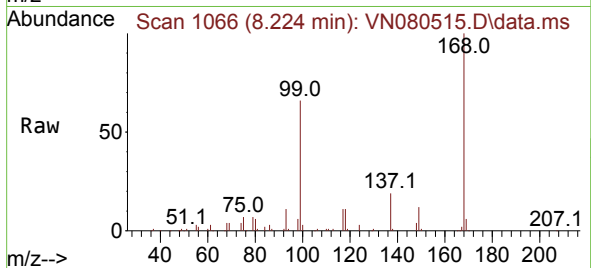
Tgt Ion: 84 Resp: 654  
Ion Ratio Lower Upper  
84 100  
49 45.0 79.7 119.5#  
51 0.0 25.2 37.8#  
86 33.0 53.3 79.9#



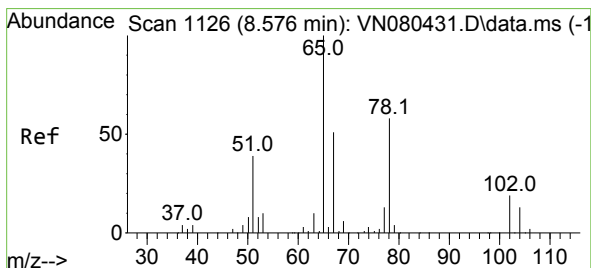
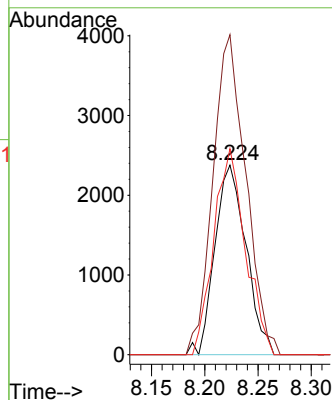
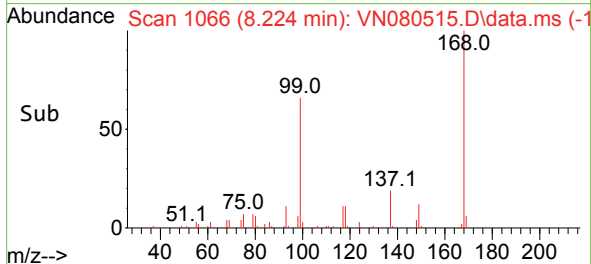


#31  
Cyclohexane  
Concen: 1.184 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

Instrument :  
MSVOA\_N  
ClientSampleId :

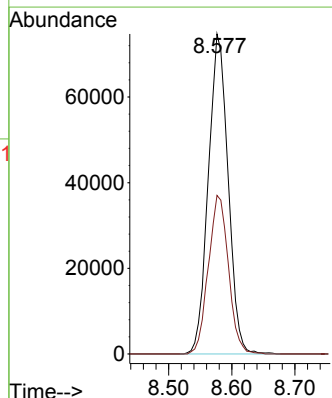
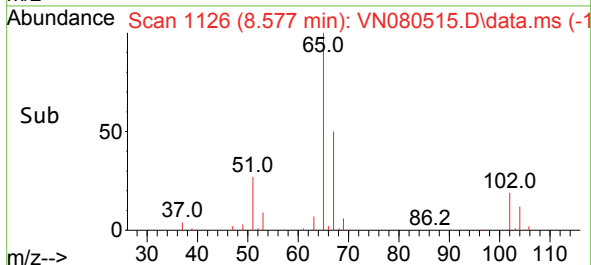
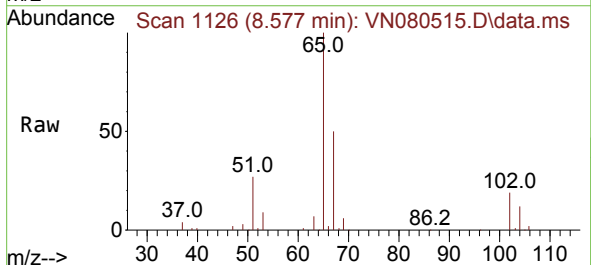


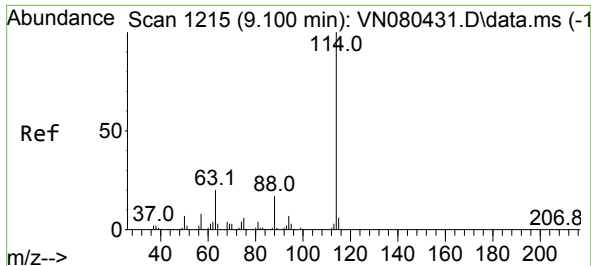
Tgt Ion: 56 Resp: 4833  
Ion Ratio Lower Upper  
56 100  
69 168.7 26.8 40.2#  
84 108.6 81.8 122.6



#33  
1,2-Dichloroethane-d4  
Concen: 54.170 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

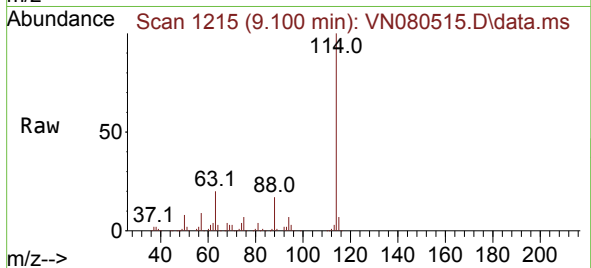
Tgt Ion: 65 Resp: 162592  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 106.6



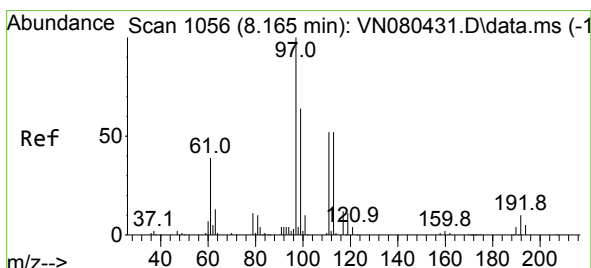
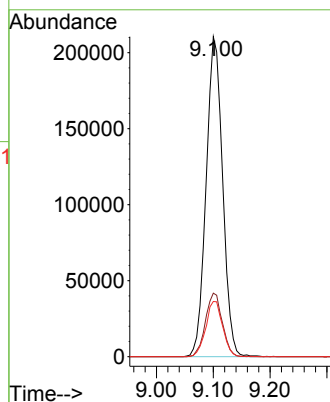
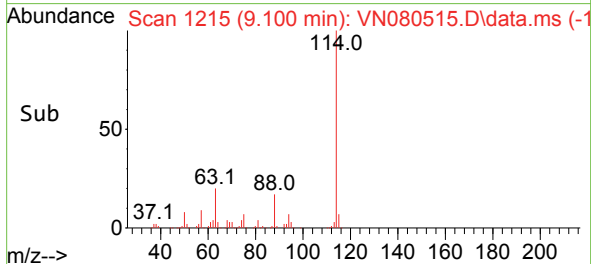


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.100 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

Instrument :  
MSVOA\_N  
ClientSampleId :

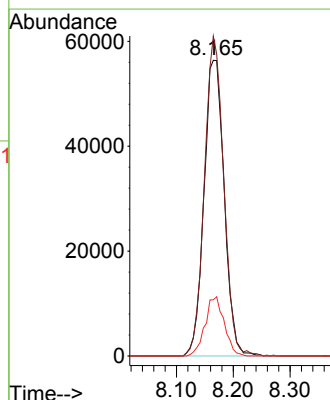
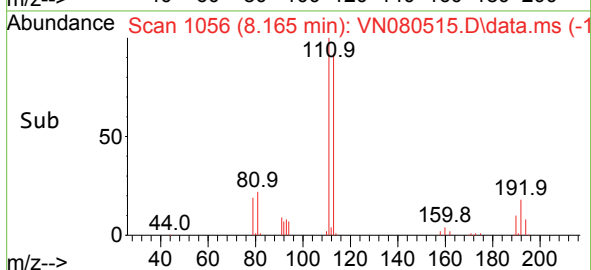
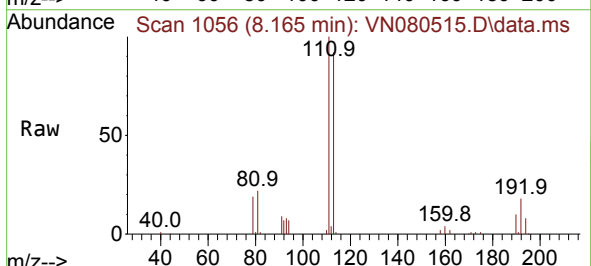


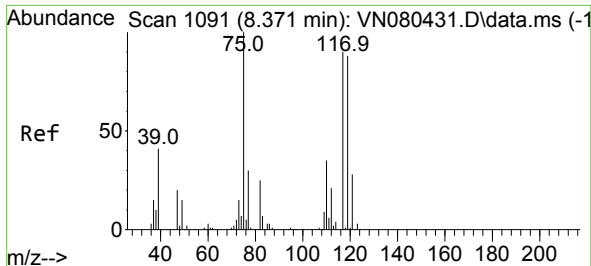
Tgt Ion:114 Resp: 423297  
Ion Ratio Lower Upper  
114 100  
63 19.8 0.0 36.4  
88 17.3 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 51.841 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. 0.000 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

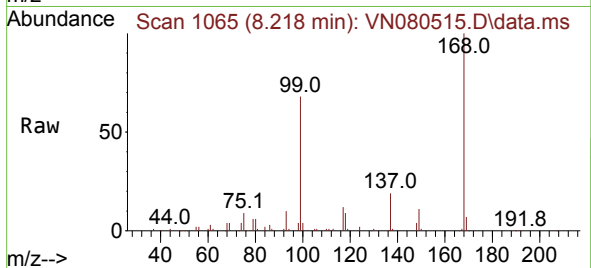
Tgt Ion:113 Resp: 139134  
Ion Ratio Lower Upper  
113 100  
111 103.1 82.6 123.8  
192 19.0 12.7 19.1



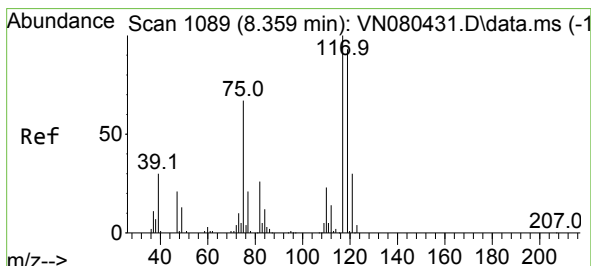
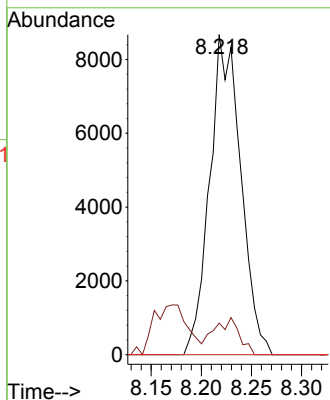
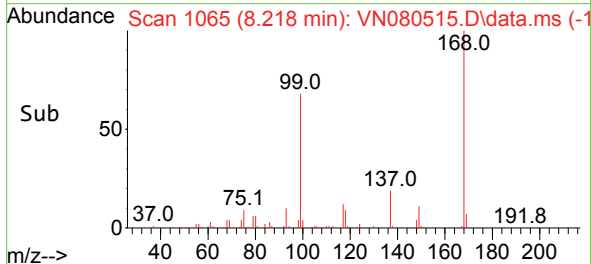


#36  
1,1-Dichloropropene  
Concen: 4.263 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.153 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

Instrument :  
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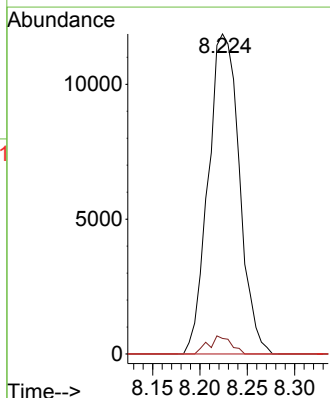
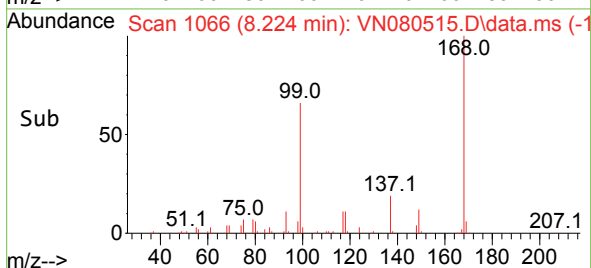
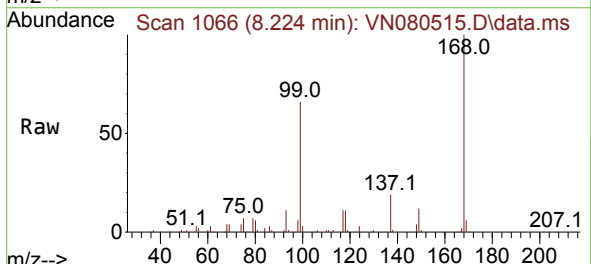


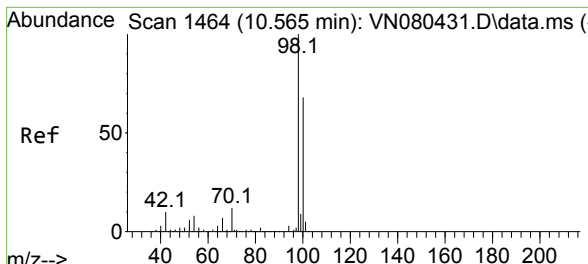
Tgt Ion: 75 Resp: 18707  
Ion Ratio Lower Upper  
75 100  
110 9.5 19.1 57.3#  
77 0.0 25.0 37.4#



#38  
Carbon Tetrachloride  
Concen: 5.180 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

Tgt Ion: 117 Resp: 27159  
Ion Ratio Lower Upper  
117 100  
119 4.9 77.3 115.9#  
121 0.0 23.3 34.9#

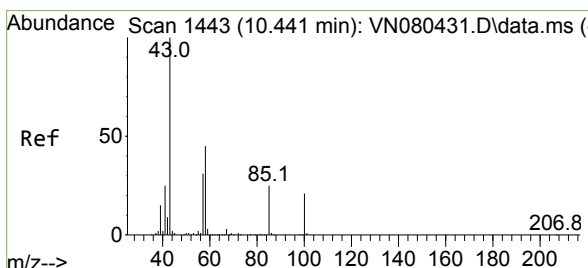
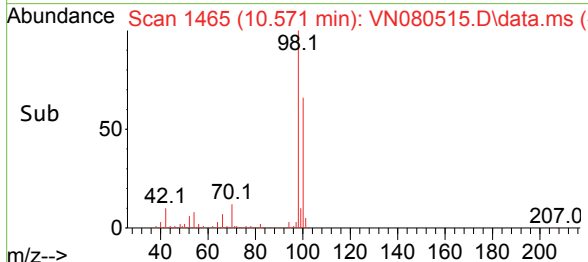
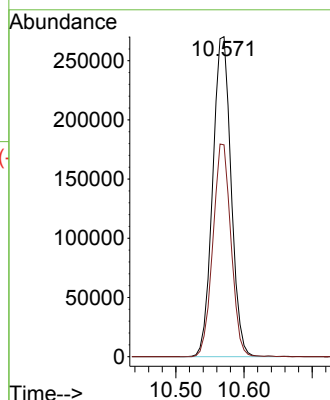
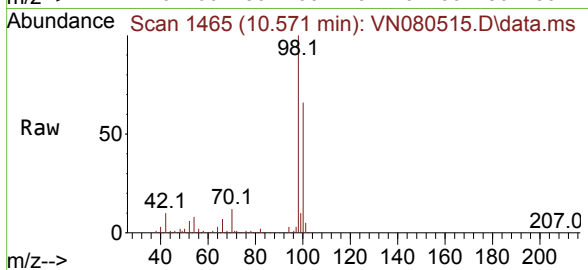




#50  
Toluene-d8  
Concen: 50.648 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

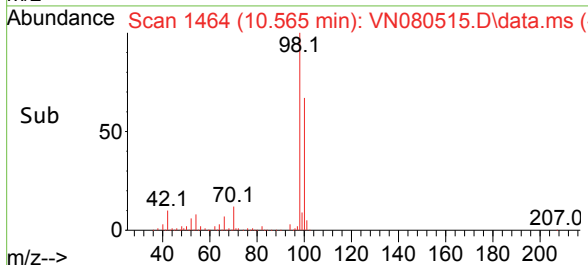
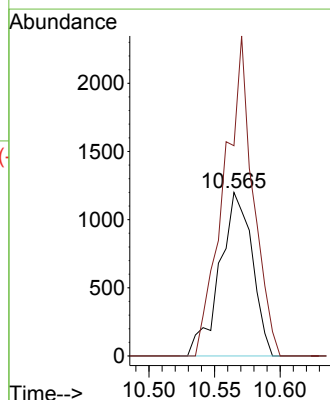
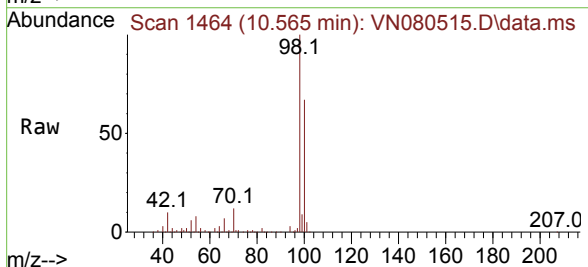
Instrument :  
MSVOA\_N  
ClientSampleId :

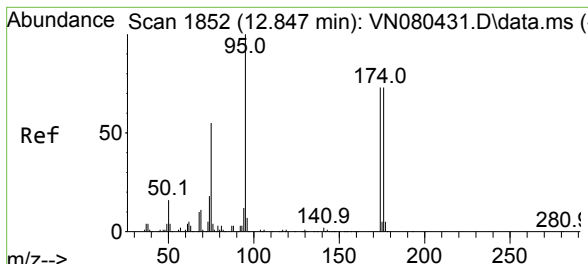
Tgt Ion: 98 Resp: 506955  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.757 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.124 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

Tgt Ion: 43 Resp: 2061  
Ion Ratio Lower Upper  
43 100  
58 175.9 36.6 54.8#

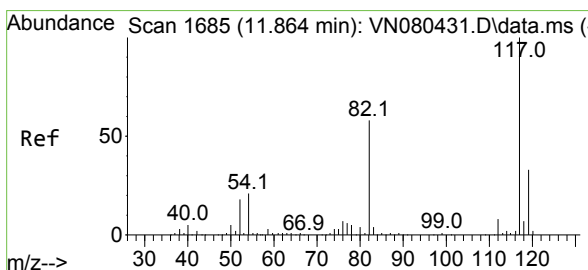
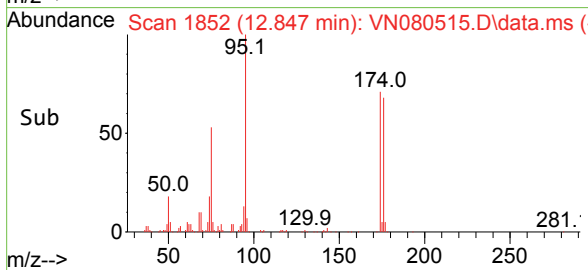
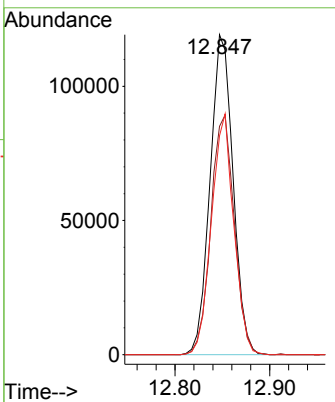
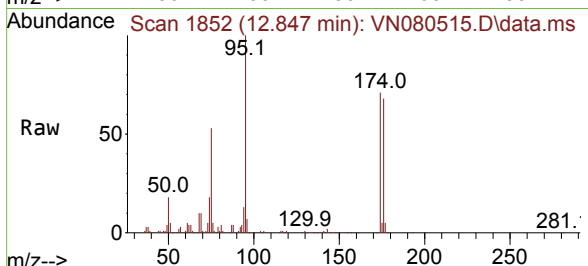




#62  
 4-Bromofluorobenzene  
 Concen: 52.802 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. 0.000 min  
 Lab File: VN080515.D  
 Acq: 19 Dec 2023 13:12

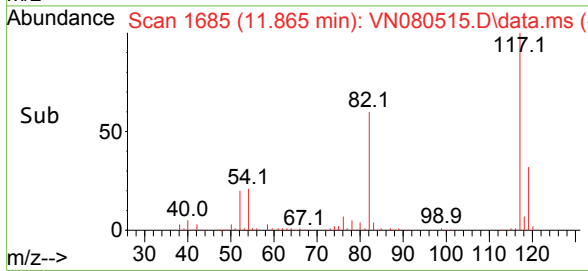
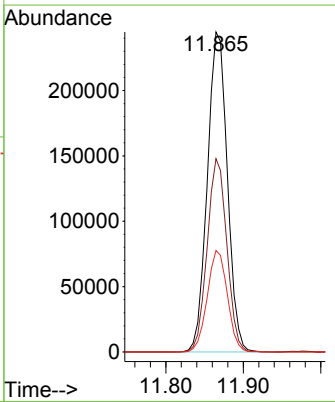
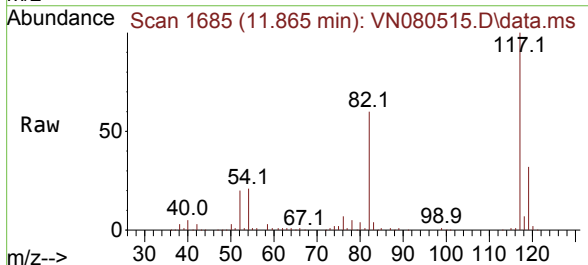
Instrument :  
 MSVOA\_N  
 ClientSampleId :

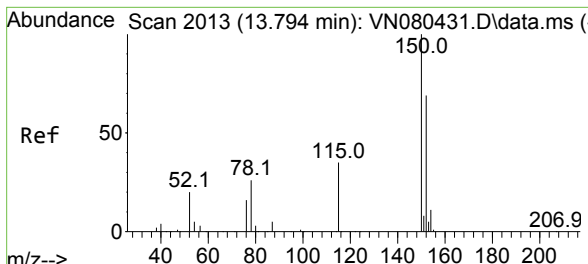
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 200691 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 76.5  | 0.0   | 143.8  |
| 176      | 73.4  | 0.0   | 135.8  |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.865 min Scan# 1685  
 Delta R.T. 0.000 min  
 Lab File: VN080515.D  
 Acq: 19 Dec 2023 13:12

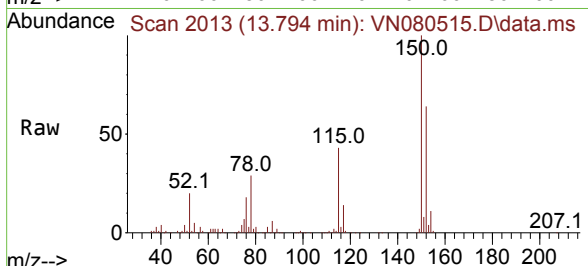
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 439134 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 60.4  | 44.0  | 66.0   |
| 119      | 31.7  | 25.6  | 38.4   |



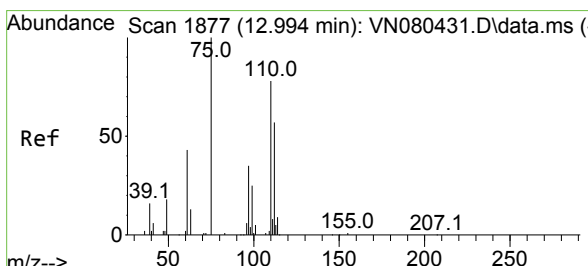
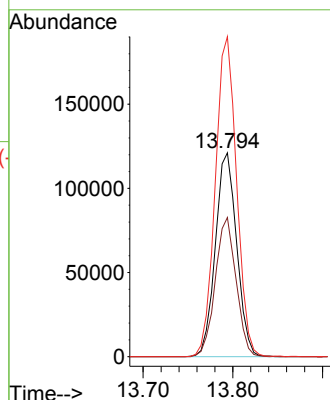
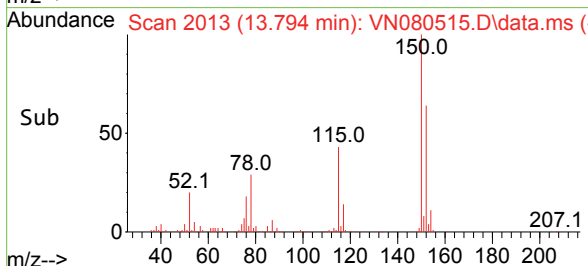


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 2013  
 Delta R.T. 0.000 min  
 Lab File: VN080515.D  
 Acq: 19 Dec 2023 13:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :

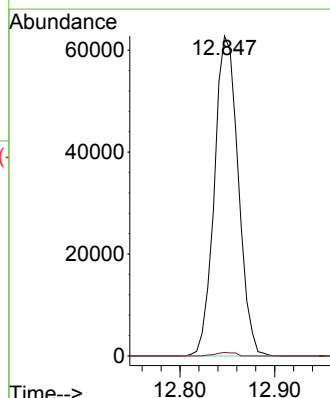
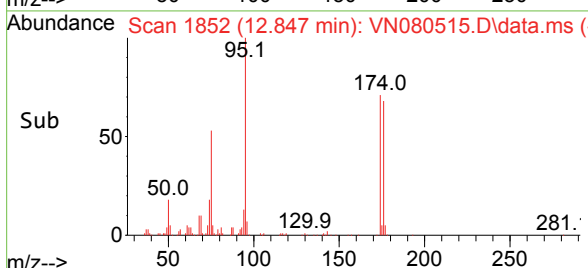
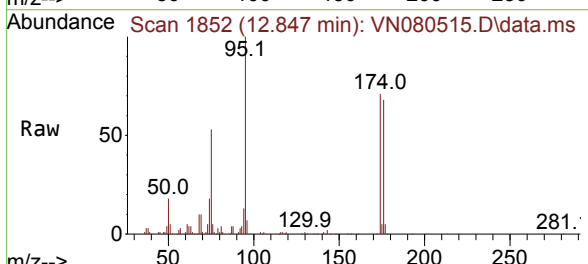


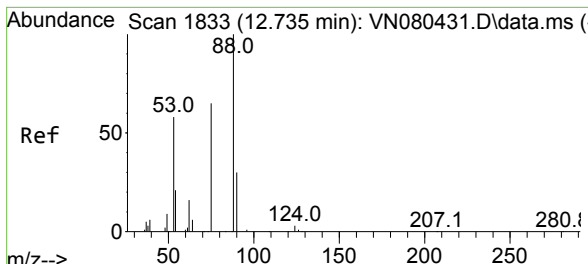
Tgt Ion:152 Resp: 200092  
 Ion Ratio Lower Upper  
 152 100  
 115 66.5 32.3 96.8  
 150 156.4 0.0 355.8



#76  
 1,2,3-Trichloropropane  
 Concen: 27.502 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.147 min  
 Lab File: VN080515.D  
 Acq: 19 Dec 2023 13:12

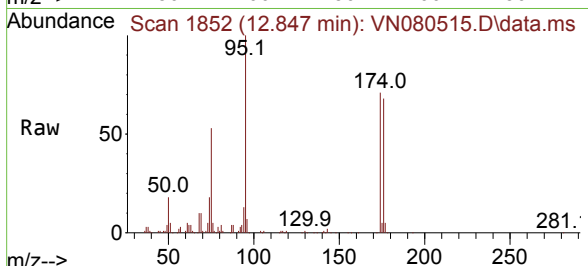
Tgt Ion: 75 Resp: 109781  
 Ion Ratio Lower Upper  
 75 100  
 77 0.9 84.5 253.5#





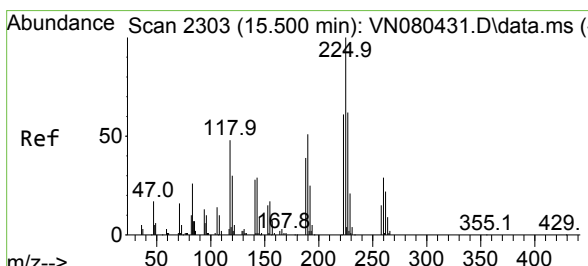
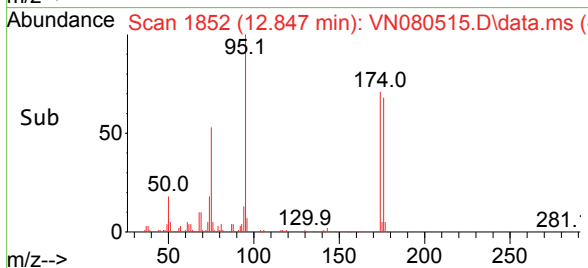
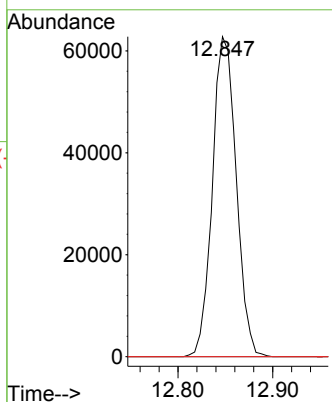
#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 72.209 ug/l  
 RT: 12.847 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN080515.D  
 Acq: 19 Dec 2023 13:12

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion: 75 Resp: 109781  

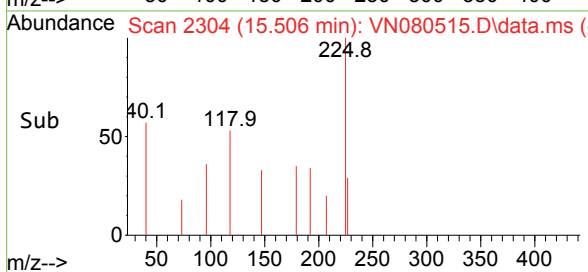
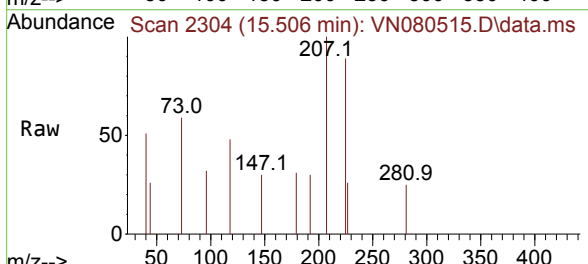
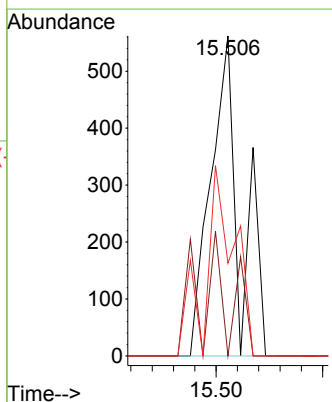
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 75  | 100   |       |        |
| 53  | 0.0   | 67.4  | 101.2# |
| 89  | 0.0   | 38.8  | 58.2#  |

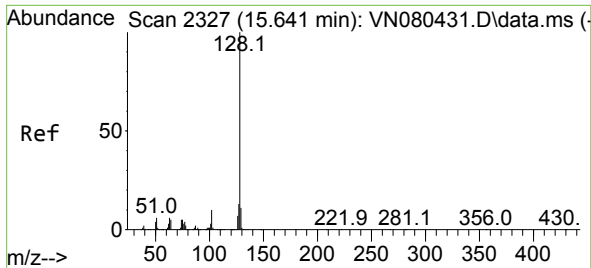


#94  
 Hexachlorobutadiene  
 Concen: 0.256 ug/l  
 RT: 15.506 min Scan# 2304  
 Delta R.T. 0.006 min  
 Lab File: VN080515.D  
 Acq: 19 Dec 2023 13:12

Tgt Ion: 225 Resp: 535  

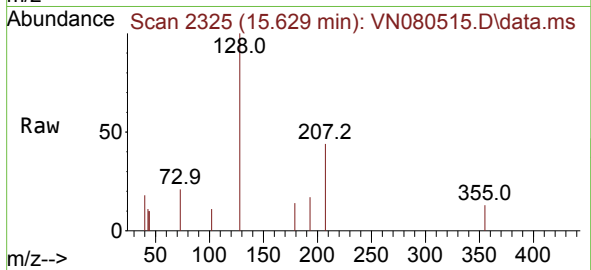
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 225 | 100   |       |       |
| 223 | 13.5  | 31.3  | 93.8# |
| 227 | 58.9  | 31.9  | 95.9  |





#95  
Naphthalene  
Concen: 0.248 ug/l  
RT: 15.629 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: VN080515.D  
Acq: 19 Dec 2023 13:12

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 2769  
Ion Ratio Lower Upper  
128 100  
127 7.8 10.0 15.0#  
129 0.0 8.7 13.1#

