

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN062024\  
 Data File : VN082665.D  
 Acq On : 20 Jun 2024 13:58  
 Operator : JC\MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jun 21 02:06:03 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N061724W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 18 04:52:44 2024  
 Response via : Initial Calibration

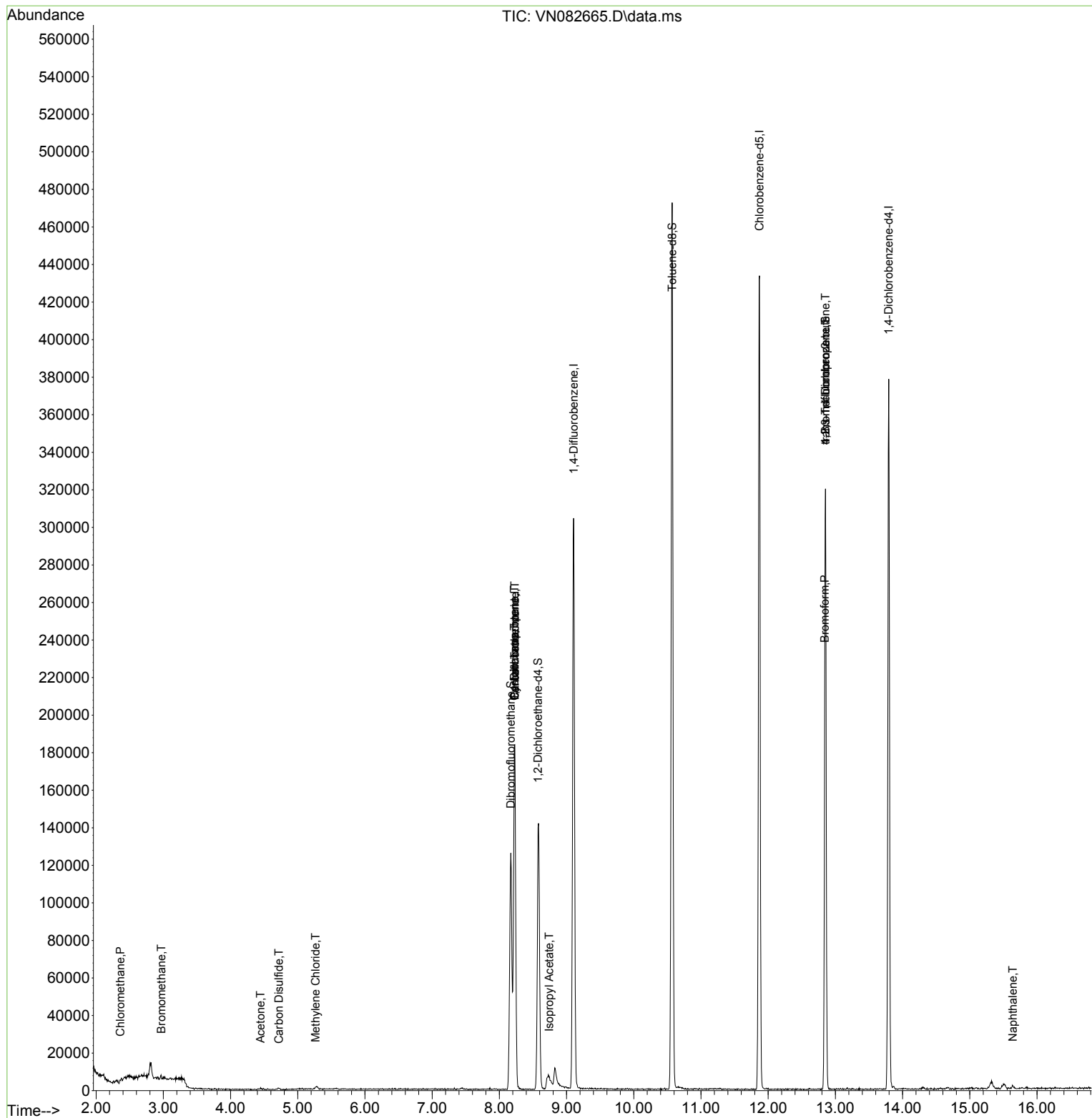
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 130297   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 238847   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.870 | 117   | 230559   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 94283    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 118988   | 56.946   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 113.900% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 86768    | 53.550   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 107.100% |          |
| 50) Toluene-d8                | 10.571 | 98    | 308277   | 50.311   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 100.620% |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 100623   | 47.632   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery | = 95.260%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 3) Chloromethane              | 2.359  | 50    | 538      | 0.247    | ug/l       | 89       |
| 5) Bromomethane               | 2.971  | 94    | 319      | 0.239    | ug/l       | 82       |
| 16) Acetone                   | 4.447  | 43    | 656      | 0.690    | ug/l #     | 82       |
| 17) Carbon Disulfide          | 4.718  | 76    | 1526     | 0.331    | ug/l #     | 75       |
| 20) Methylene Chloride        | 5.265  | 84    | 1060     | 0.634    | ug/l #     | 43       |
| 31) Cyclohexane               | 8.224  | 56    | 3661     | 1.214    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 11585    | 4.783    | ug/l #     | 51       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 13550    | 4.964    | ug/l #     | 19       |
| 43) Isopropyl Acetate         | 8.741  | 43    | 10743    | 1.863    | ug/l #     | 60       |
| 71) Bromoform                 | 12.841 | 173   | 433      | 0.291    | ug/l #     | 29       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 59579    | 25.836   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 59579    | 61.811   | ug/l #     | 6        |
| 95) Naphthalene               | 15.641 | 128   | 1894     | 0.358    | ug/l #     | 80       |
| -----                         |        |       |          |          |            |          |

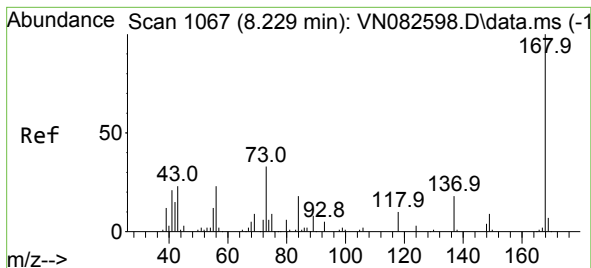
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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Quant Title : SW846 8260  
QLast Update : Tue Jun 18 04:52:44 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN082665.D

Acq: 20 Jun 2024 13:58

Instrument :

MSVOA\_N

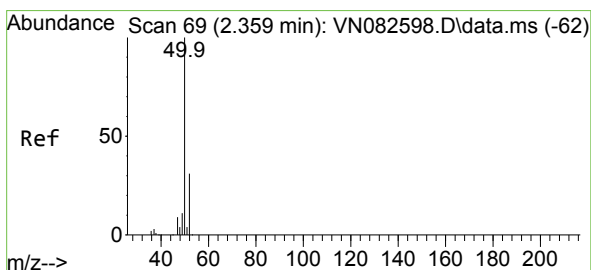
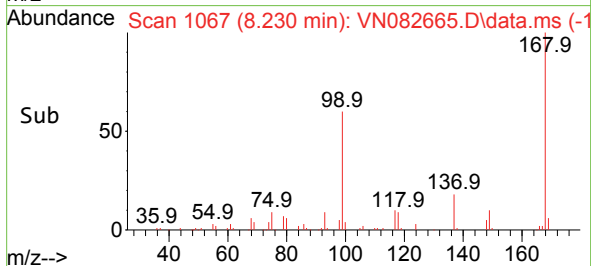
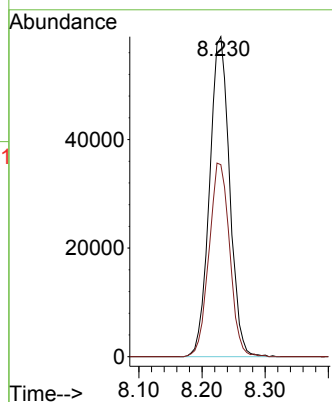
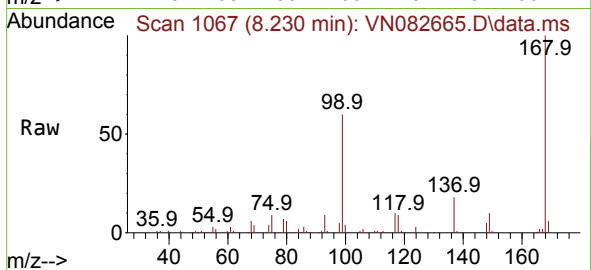
ClientSampleId :

Tgt Ion:168 Resp: 130297

Ion Ratio Lower Upper

168 100

99 60.0 48.2 72.4



#3

Chloromethane

Concen: 0.247 ug/l

RT: 2.359 min Scan# 69

Delta R.T. 0.000 min

Lab File: VN082665.D

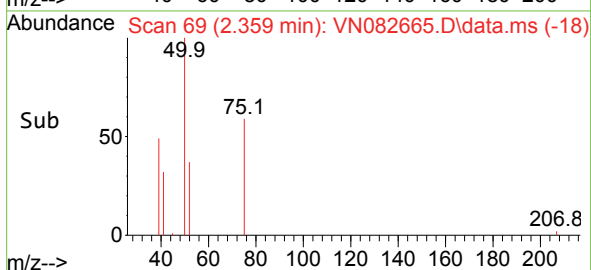
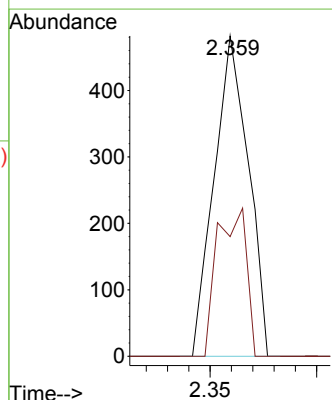
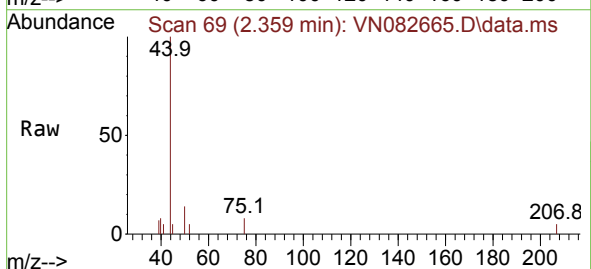
Acq: 20 Jun 2024 13:58

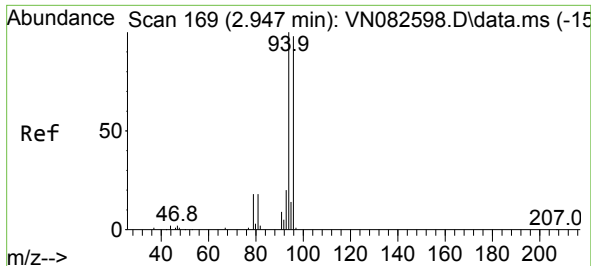
Tgt Ion: 50 Resp: 538

Ion Ratio Lower Upper

50 100

52 37.3 25.0 37.4

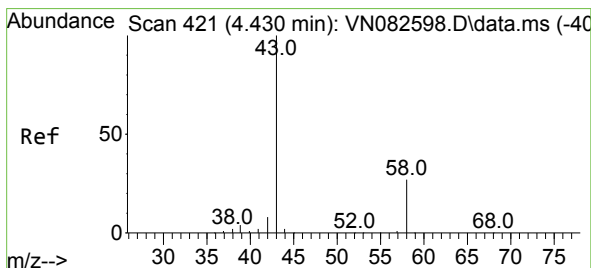
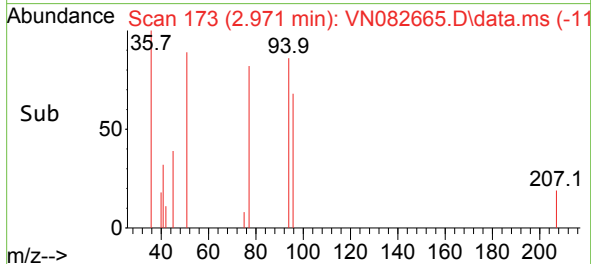
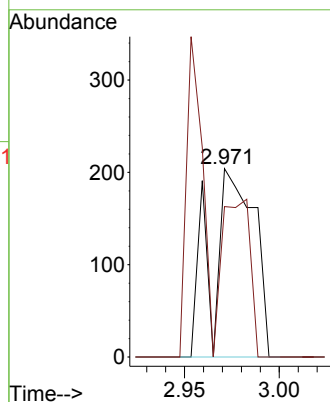
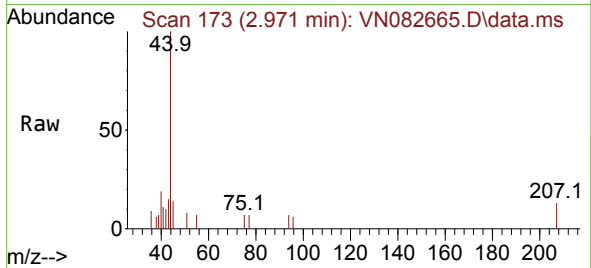




#5  
Bromomethane  
Concen: 0.239 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

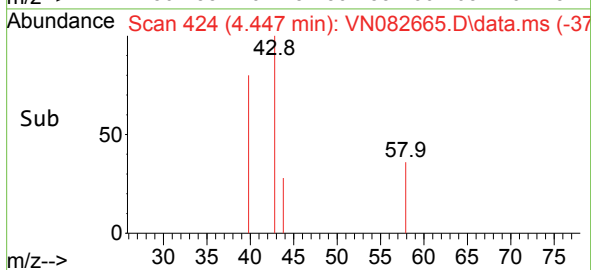
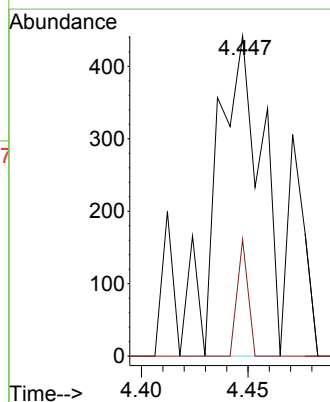
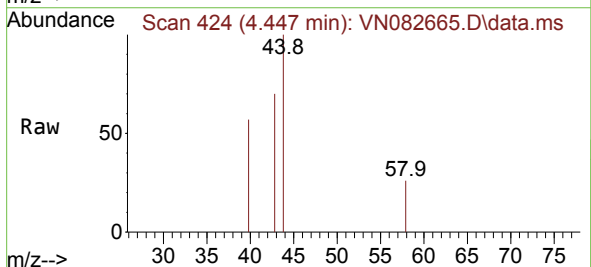
Instrument :  
MSVOA\_N  
ClientSampleId :

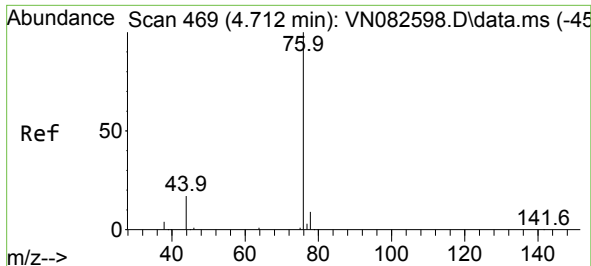
Tgt Ion: 94 Resp: 319  
Ion Ratio Lower Upper  
94 100  
96 79.9 78.0 117.0



#16  
Acetone  
Concen: 0.690 ug/l  
RT: 4.447 min Scan# 424  
Delta R.T. 0.018 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

Tgt Ion: 43 Resp: 656  
Ion Ratio Lower Upper  
43 100  
58 36.4 21.8 32.6#

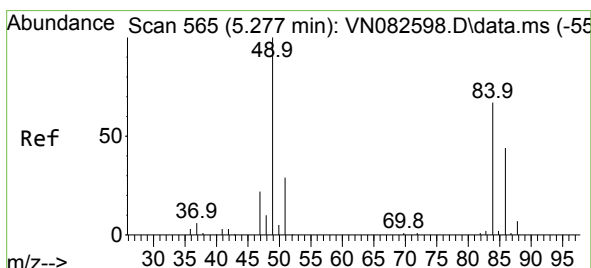
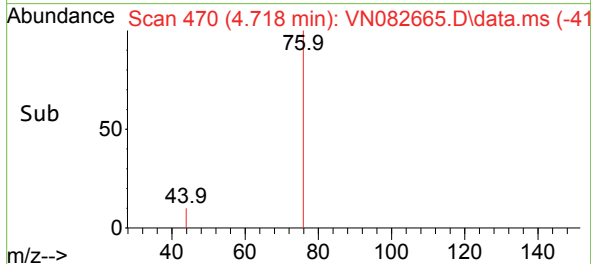
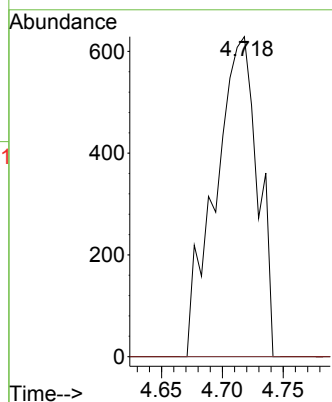
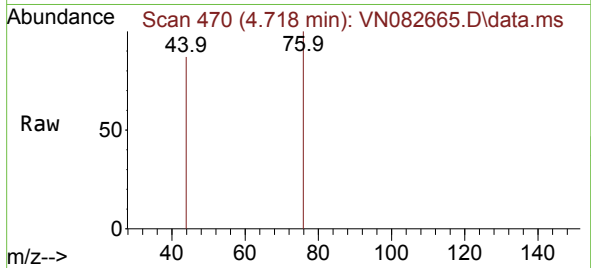




#17  
Carbon Disulfide  
Concen: 0.331 ug/l  
RT: 4.718 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

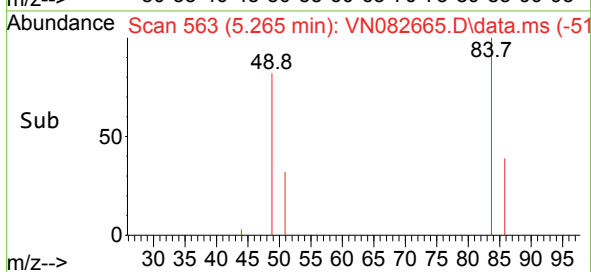
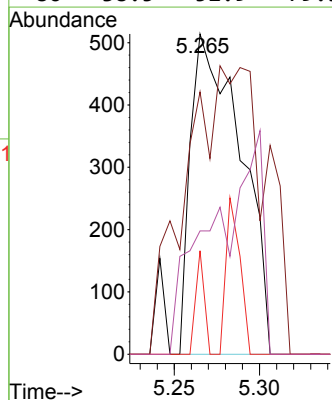
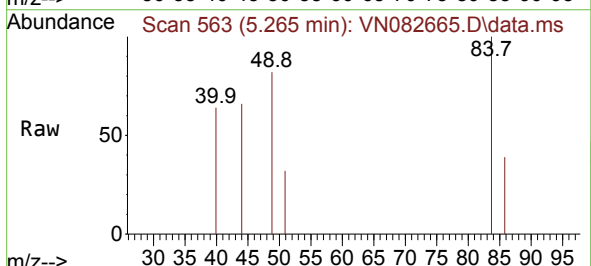
Instrument :  
MSVOA\_N  
ClientSampleId :

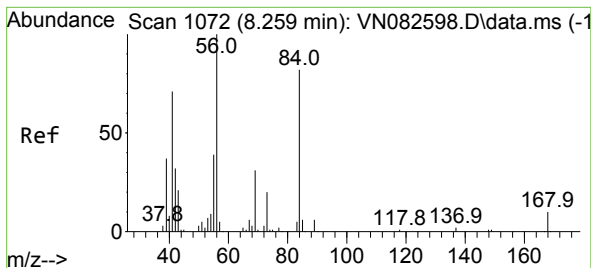
Tgt Ion: 76 Resp: 1526  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.2 10.8#



#20  
Methylene Chloride  
Concen: 0.634 ug/l  
RT: 5.265 min Scan# 563  
Delta R.T. -0.012 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

Tgt Ion: 84 Resp: 1060  
Ion Ratio Lower Upper  
84 100  
49 49.2 119.6 179.4#  
51 32.3 34.8 52.2#  
86 38.5 52.9 79.3#





#31

Cyclohexane

Concen: 1.214 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.035 min

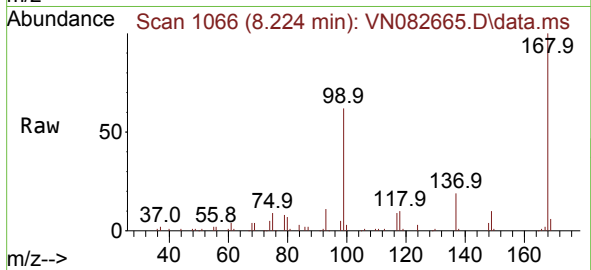
Lab File: VN082665.D

Acq: 20 Jun 2024 13:58

Instrument :

MSVOA\_N

ClientSampleId :



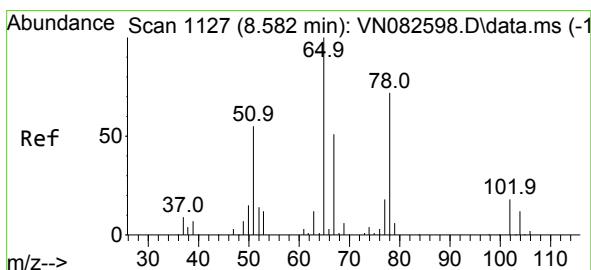
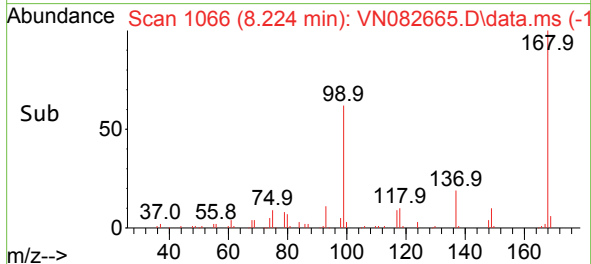
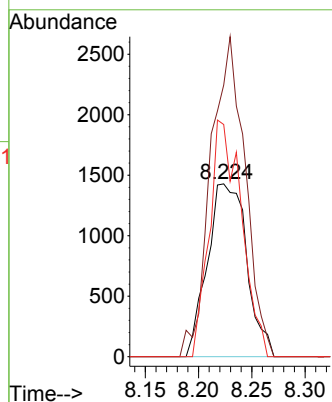
Tgt Ion: 56 Resp: 3661

Ion Ratio Lower Upper

56 100

69 157.3 24.5 36.7#

84 134.4 66.0 99.0#



#33

1,2-Dichloroethane-d4

Concen: 56.946 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN082665.D

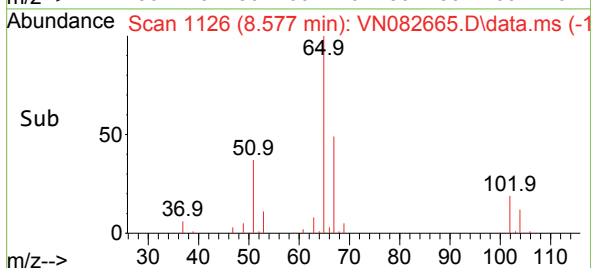
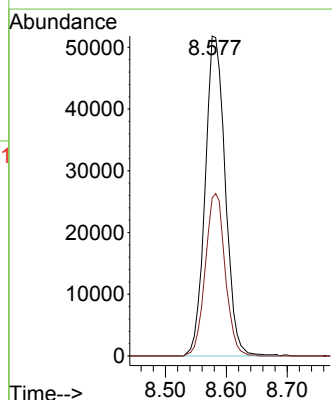
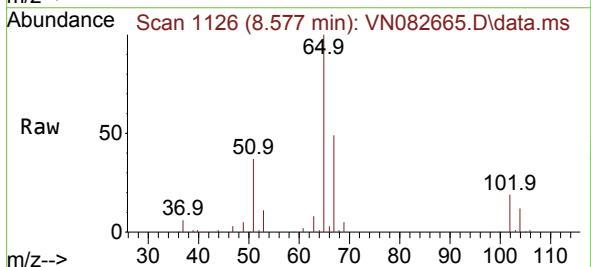
Acq: 20 Jun 2024 13:58

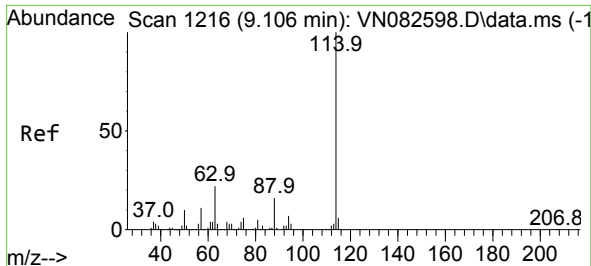
Tgt Ion: 65 Resp: 118988

Ion Ratio Lower Upper

65 100

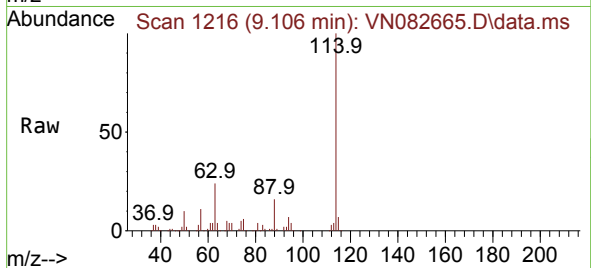
67 50.1 0.0 104.4



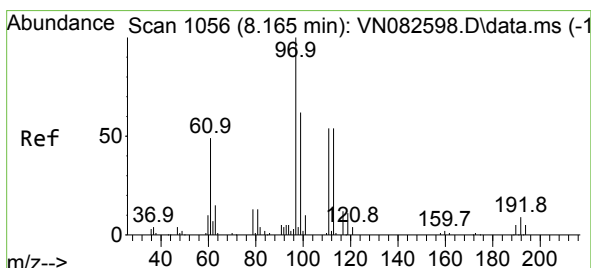
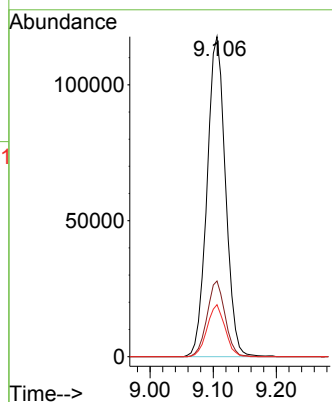
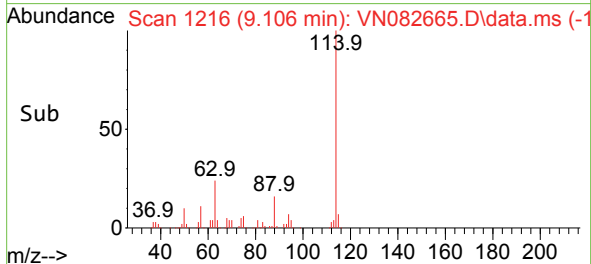


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 111  
Delta R.T. 0.000 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

Instrument :  
MSVOA\_N  
ClientSampleId :

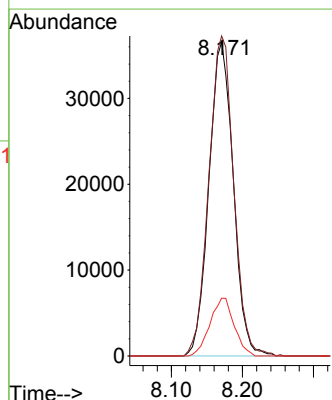
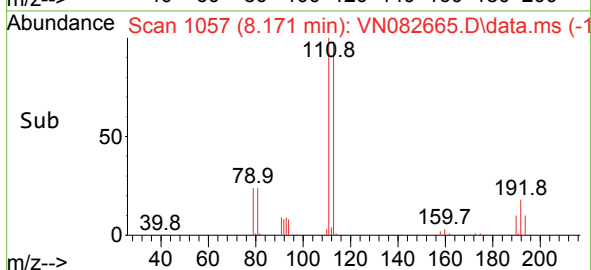
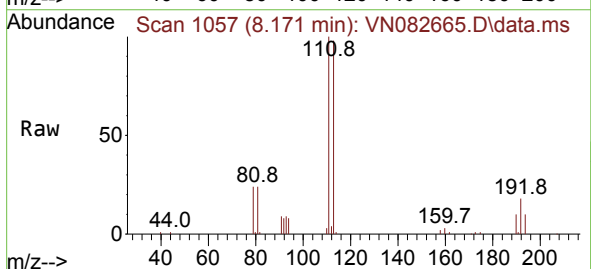


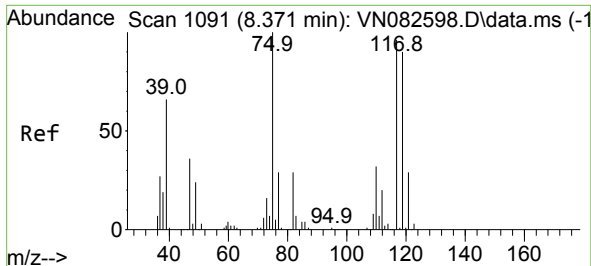
Tgt Ion:114 Resp: 238847  
Ion Ratio Lower Upper  
114 100  
63 23.6 0.0 44.6  
88 16.3 0.0 31.4



#35  
Dibromofluoromethane  
Concen: 53.550 ug/l  
RT: 8.171 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

Tgt Ion:113 Resp: 86768  
Ion Ratio Lower Upper  
113 100  
111 104.4 82.4 123.6  
192 18.3 14.9 22.3





#36

1,1-Dichloropropene

Concen: 4.783 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

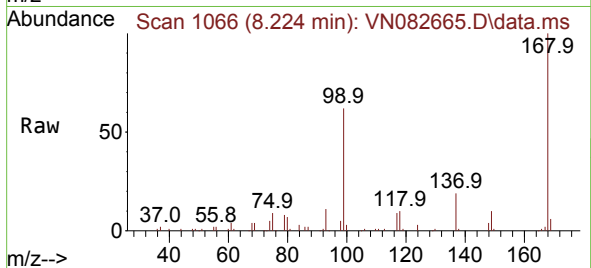
Lab File: VN082665.D

Acq: 20 Jun 2024 13:58

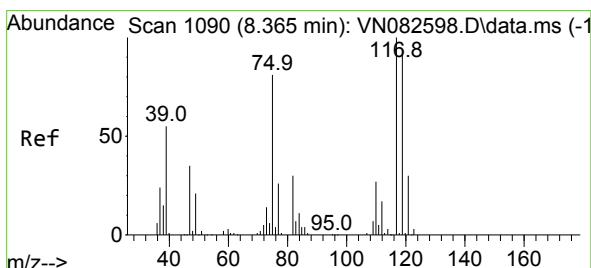
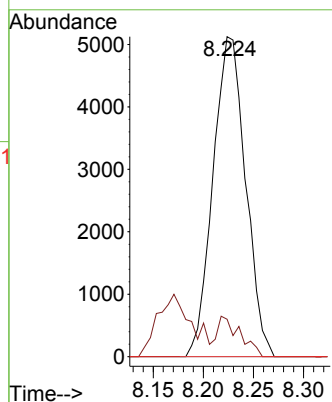
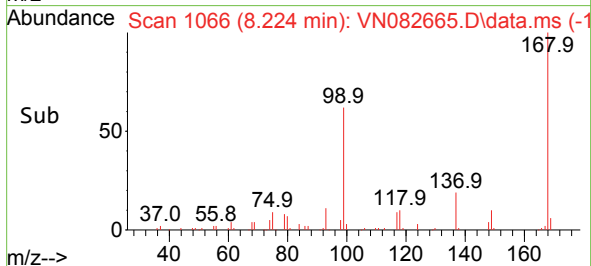
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 11585 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 9.0   | 16.3  | 48.9# |
| 77       | 0.0   | 24.6  | 37.0# |



#38

Carbon Tetrachloride

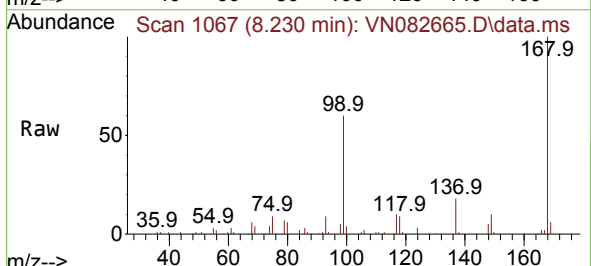
Concen: 4.964 ug/l

RT: 8.230 min Scan# 1067

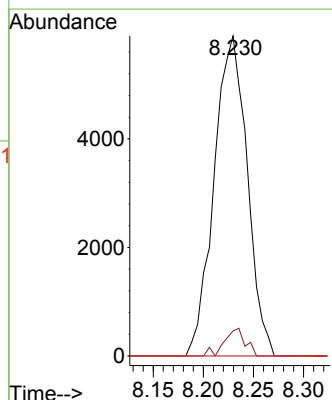
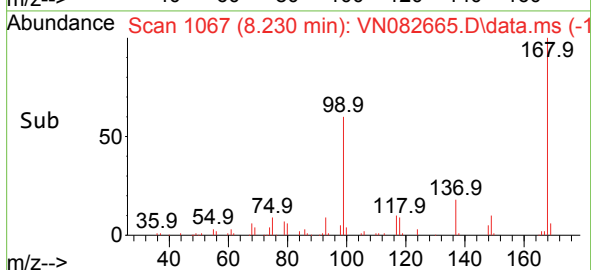
Delta R.T. -0.135 min

Lab File: VN082665.D

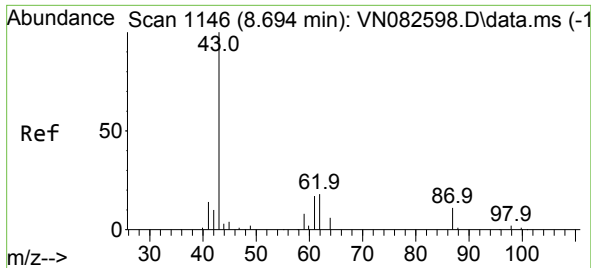
Acq: 20 Jun 2024 13:58



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 13550  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 7.8   | 74.9  | 112.3# |
| 121      | 0.0   | 24.3  | 36.5#  |



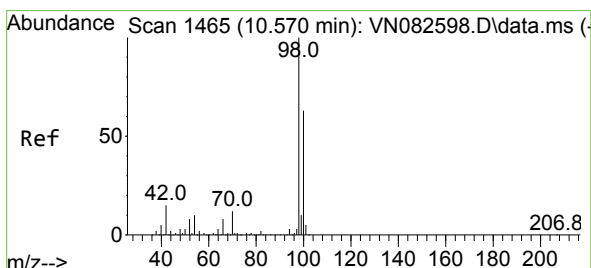
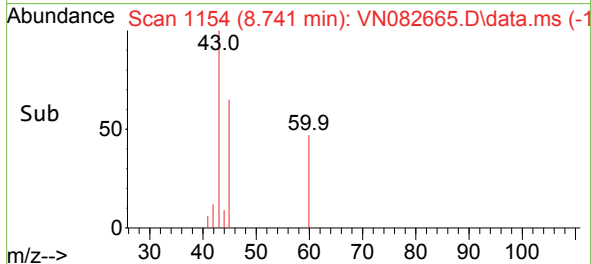
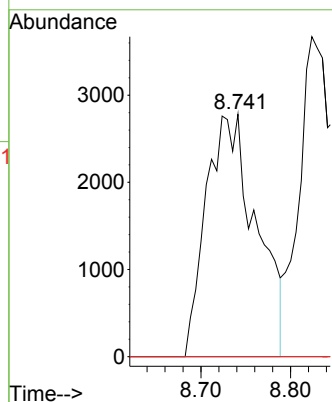
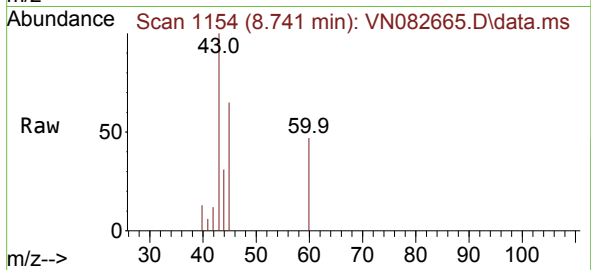




#43  
Isopropyl Acetate  
Concen: 1.863 ug/l  
RT: 8.741 min Scan# 1146  
Delta R.T. 0.047 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

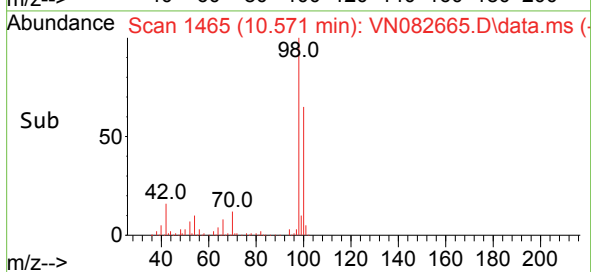
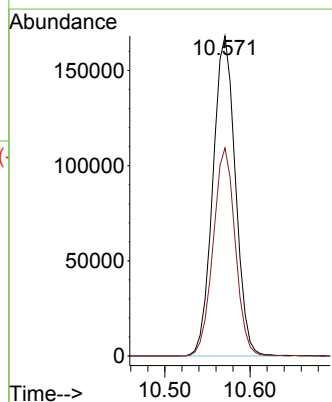
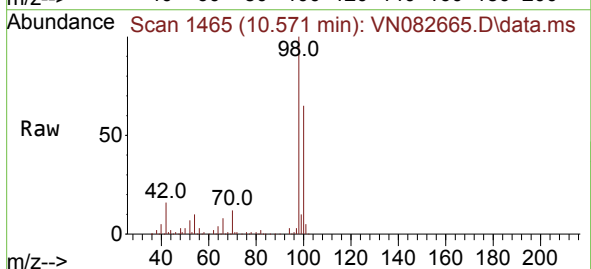
Instrument :  
MSVOA\_N  
ClientSampleId :

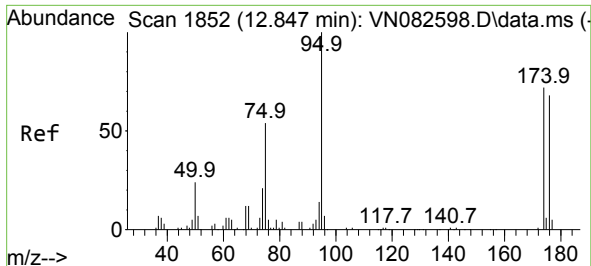
Tgt Ion: 43 Resp: 10743  
Ion Ratio Lower Upper  
43 100  
61 0.0 17.8 26.6#  
87 0.0 8.2 12.2#



#50  
Toluene-d8  
Concen: 50.311 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. 0.000 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

Tgt Ion: 98 Resp: 308277  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.5 77.3

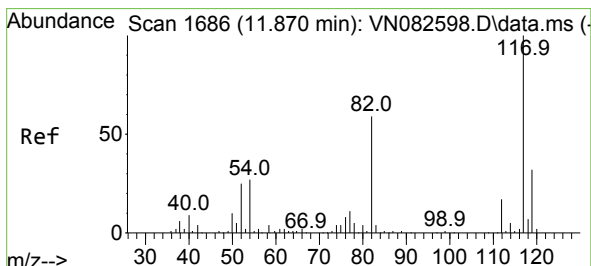
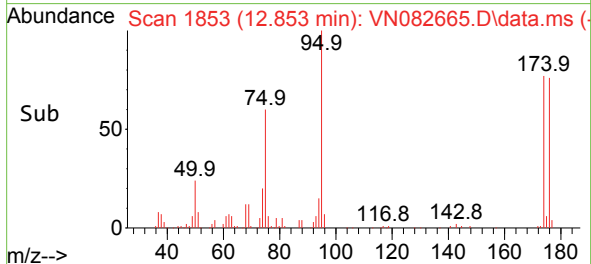
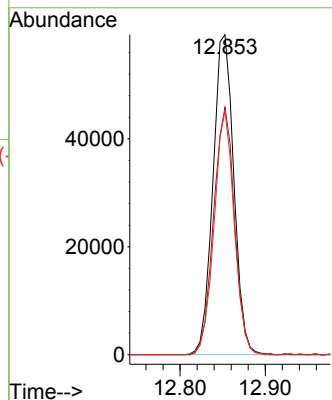
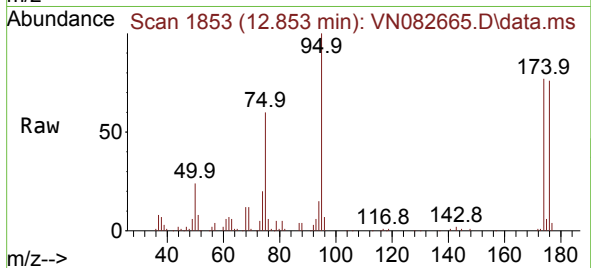




#62  
4-Bromofluorobenzene  
Concen: 47.632 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

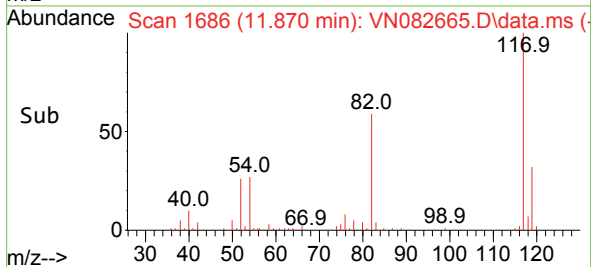
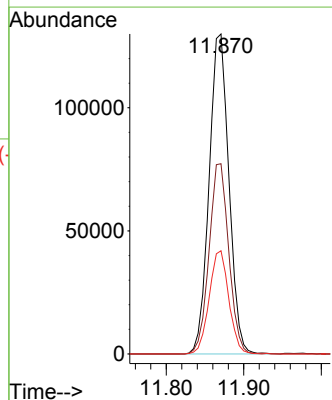
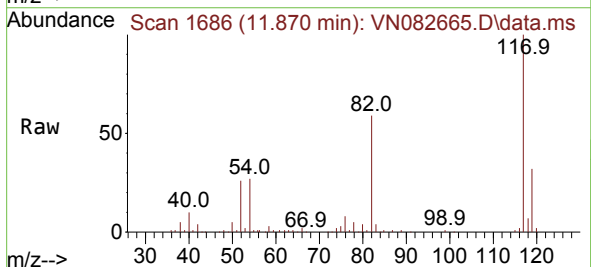
Instrument :  
MSVOA\_N  
ClientSampleId :

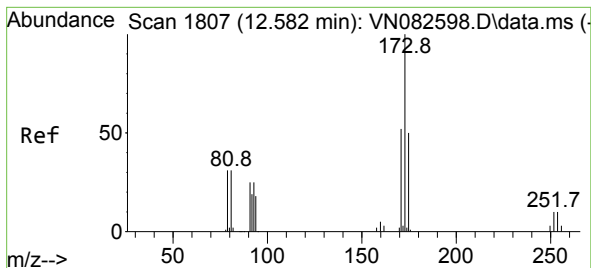
Tgt Ion: 95 Resp: 100623  
Ion Ratio Lower Upper  
95 100  
174 77.5 0.0 159.2  
176 73.4 0.0 147.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

Tgt Ion: 117 Resp: 230559  
Ion Ratio Lower Upper  
117 100  
82 59.4 47.5 71.3  
119 32.2 25.6 38.4





#71

Bromoform

Concen: 0.291 ug/l

RT: 12.841 min Scan# 1807

Delta R.T. 0.259 min

Lab File: VN082665.D

Acq: 20 Jun 2024 13:58

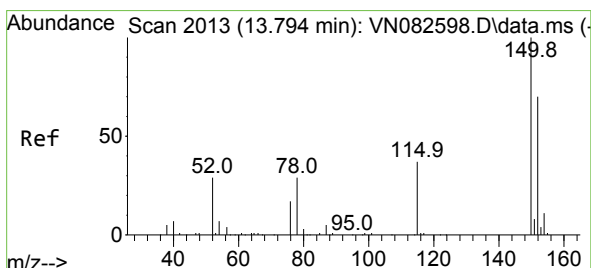
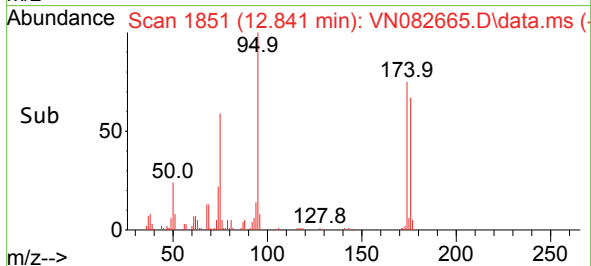
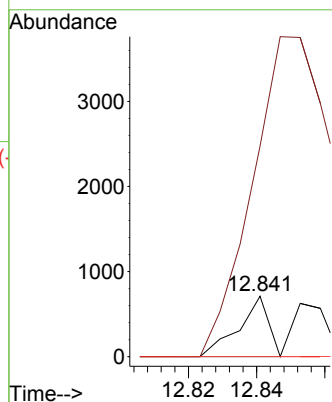
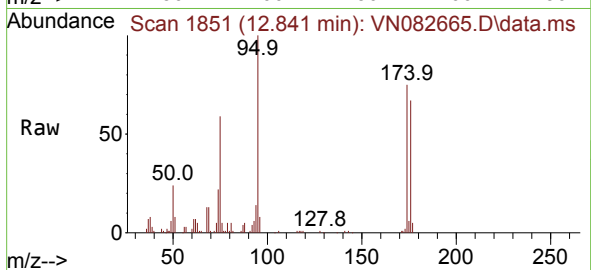
Instrument :

MSVOA\_N

ClientSampleId :

Tgt Ion:173 Resp: 433

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 173 | 100   |       |       |
| 175 | 0.0   | 24.0  | 72.0# |
| 254 | 0.0   | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

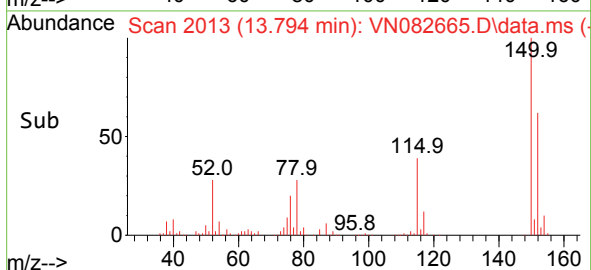
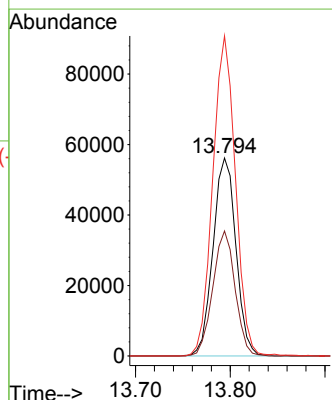
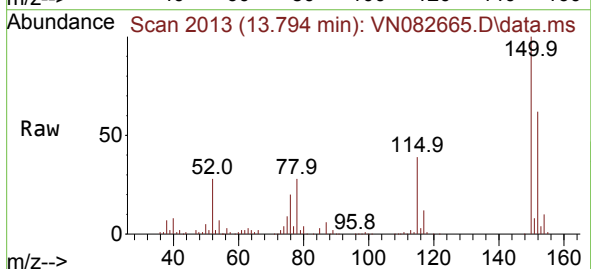
Delta R.T. 0.000 min

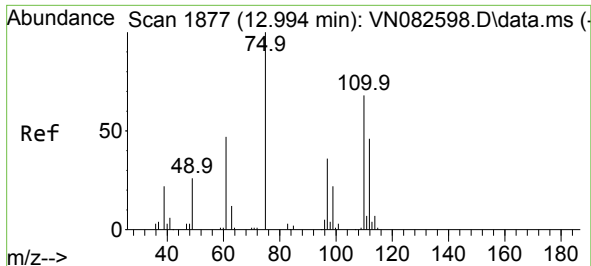
Lab File: VN082665.D

Acq: 20 Jun 2024 13:58

Tgt Ion:152 Resp: 94283

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 61.5  | 30.6  | 91.6  |
| 150 | 160.3 | 0.0   | 348.6 |

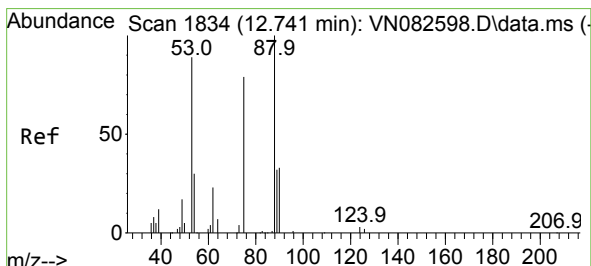
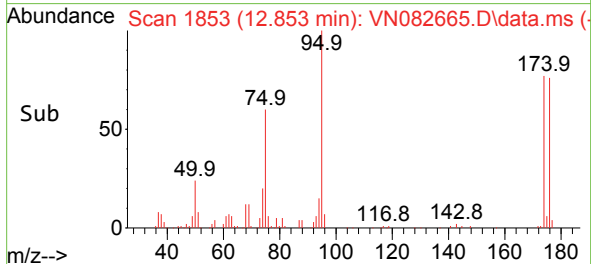
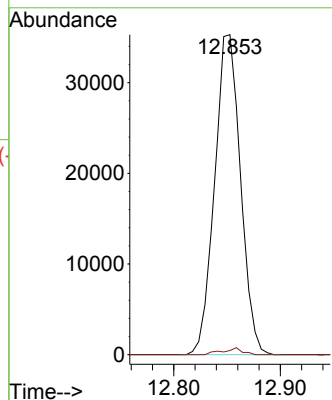
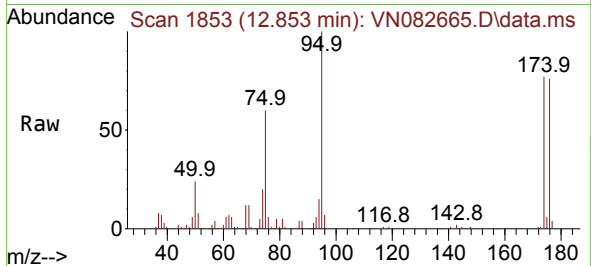




#76  
1,2,3-Trichloropropane  
Concen: 25.836 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

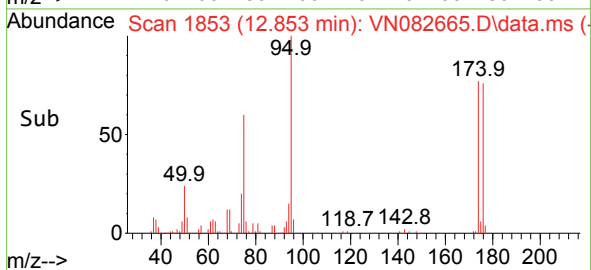
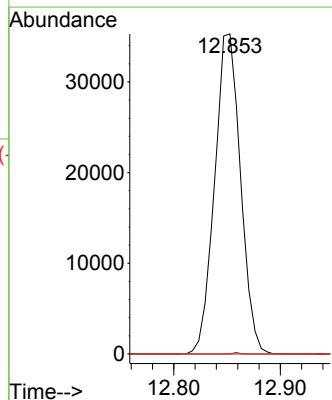
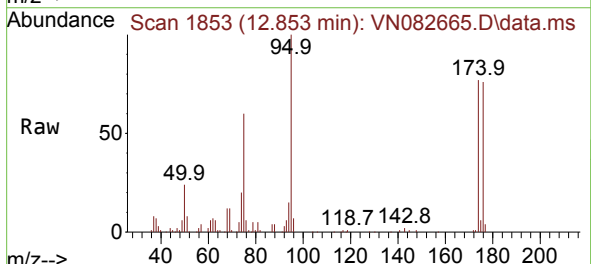
Instrument :  
MSVOA\_N  
ClientSampleId :

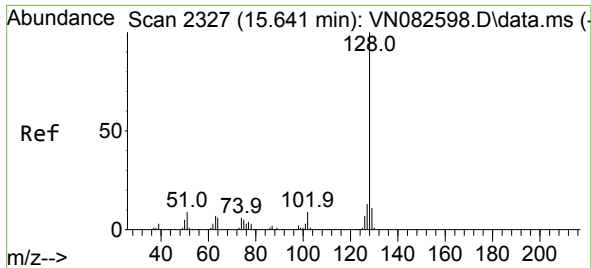
Tgt Ion: 75 Resp: 59579  
Ion Ratio Lower Upper  
75 100  
77 1.6 110.9 332.6#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.811 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN082665.D  
Acq: 20 Jun 2024 13:58

Tgt Ion: 75 Resp: 59579  
Ion Ratio Lower Upper  
75 100  
53 0.1 88.4 132.6#  
89 0.0 36.3 54.5#





#95

Naphthalene

Concen: 0.358 ug/l

RT: 15.641 min Scan# 21

Delta R.T. 0.000 min

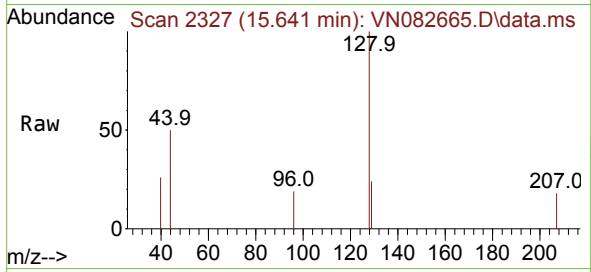
Lab File: VN082665.D

Acq: 20 Jun 2024 13:58

Instrument :

MSVOA\_N

ClientSampleId :



Tgt Ion:128 Resp: 1894

Ion Ratio Lower Upper

128 100

127 3.7 10.6 16.0#

129 4.9 8.6 12.8#

