

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN050324\  
 Data File : VN081984.D  
 Acq On : 03 May 2024 11:48  
 Operator : JC\MD  
 Sample : VN0503MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 06 01:52:15 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042524W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 26 05:26:49 2024  
 Response via : Initial Calibration

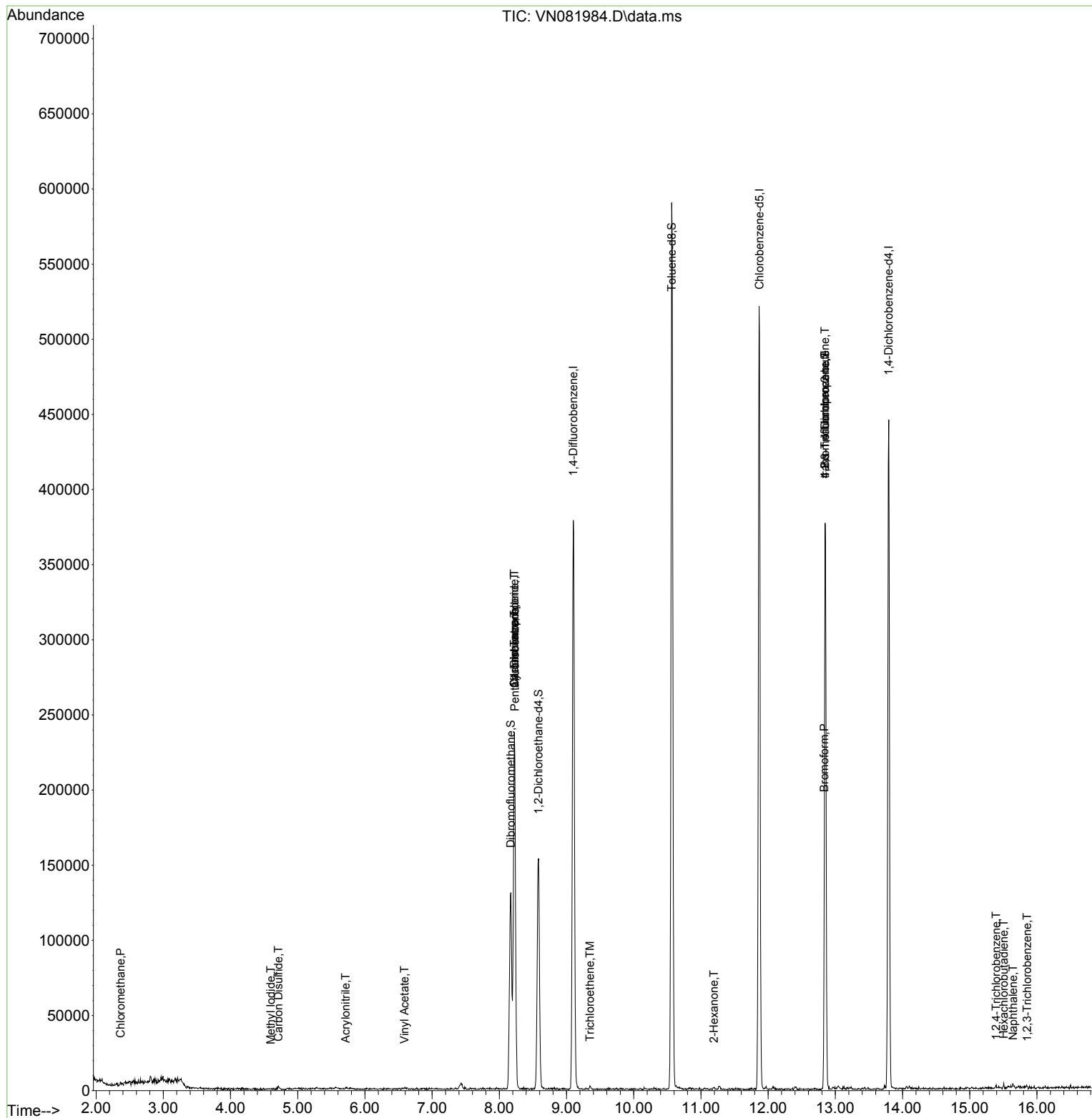
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 158254   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 324688   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.871 | 117   | 282873   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 110458   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.583  | 65    | 126919   | 47.519    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | =      | 95.040%  |
| 35) Dibromofluoromethane      | 8.171  | 113   | 95226    | 48.711    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 97.420%  |
| 50) Toluene-d8                | 10.565 | 98    | 398942   | 51.961    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | =      | 103.920% |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 134371   | 44.273    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery  | =      | 88.540%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50    | 479      | 0.207     | ug/l   | 100      |
| 5) Bromomethane               | 2.959  | 94    | 628      | Below Cal | #      | 44       |
| 10) Methyl Iodide             | 4.601  | 142   | 449      | 0.272     | ug/l # | 40       |
| 13) Acrolein                  | 4.189  | 56    | 585      | Below Cal | #      | 57       |
| 15) Acrylonitrile             | 5.712  | 53    | 871      | 0.747     | ug/l # | 63       |
| 16) Acetone                   | 4.412  | 43    | 76       | Below Cal | #      | 43       |
| 17) Carbon Disulfide          | 4.712  | 76    | 2964     | 0.514     | ug/l # | 74       |
| 23) Vinyl Acetate             | 6.589  | 43    | 1439     | 0.226     | ug/l # | 68       |
| 31) Cyclohexane               | 8.224  | 56    | 5247     | 1.304     | ug/l # | 16       |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 14969    | 4.707     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 16562    | 5.328     | ug/l # | 16       |
| 44) Trichloroethene           | 9.347  | 130   | 690      | 0.313     | ug/l   | 40       |
| 59) 2-Hexanone                | 11.194 | 43    | 543      | 0.200     | ug/l   | 70       |
| 71) Bromoform                 | 12.835 | 173   | 514      | 0.326     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 74882    | 26.147    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 74882    | 53.578    | ug/l # | 12       |
| 93) 1,2,4-Trichlorobenzene    | 15.394 | 180   | 888      | 0.432     | ug/l # | 58       |
| 94) Hexachlorobutadiene       | 15.506 | 225   | 522      | 0.689     | ug/l # | 47       |
| 95) Naphthalene               | 15.647 | 128   | 2879     | 0.370     | ug/l # | 83       |
| 96) 1,2,3-Trichlorobenzene    | 15.853 | 180   | 707      | 0.358     | ug/l # | 72       |
| -----                         |        |       |          |           |        |          |

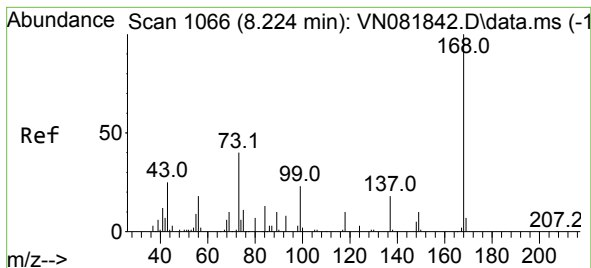
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : VN0503MBL01  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: May 06 01:52:15 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042524W.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 26 05:26:49 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 10

Delta R.T. 0.006 min

Lab File: VN081984.D

Acq: 03 May 2024 11:48

Instrument :

MSVOA\_N

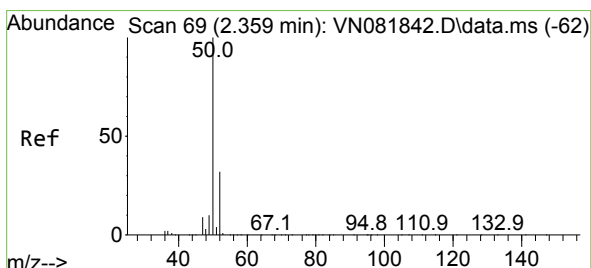
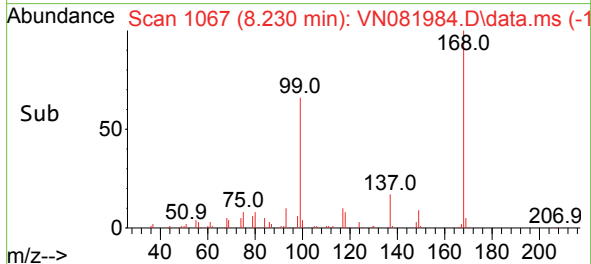
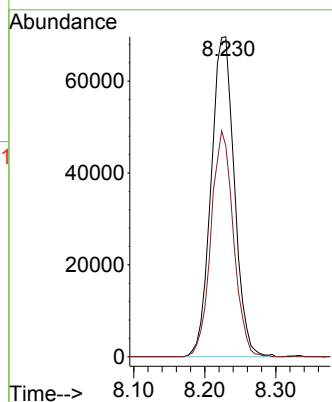
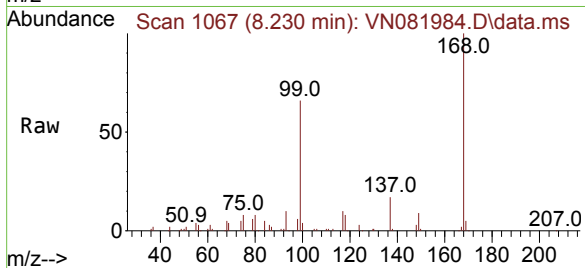
ClientSampleId :

Tgt Ion:168 Resp: 158254

Ion Ratio Lower Upper

168 100

99 65.9 48.2 72.4



#3

Chloromethane

Concen: 0.207 ug/l

RT: 2.365 min Scan# 70

Delta R.T. 0.006 min

Lab File: VN081984.D

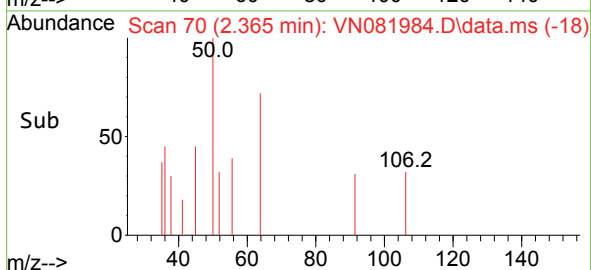
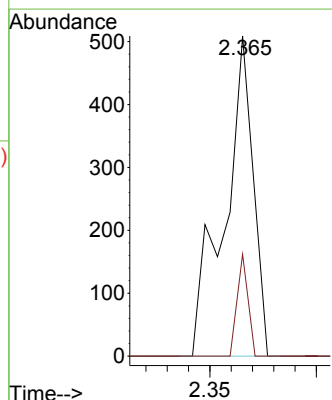
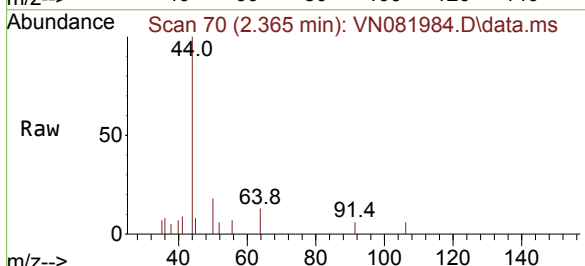
Acq: 03 May 2024 11:48

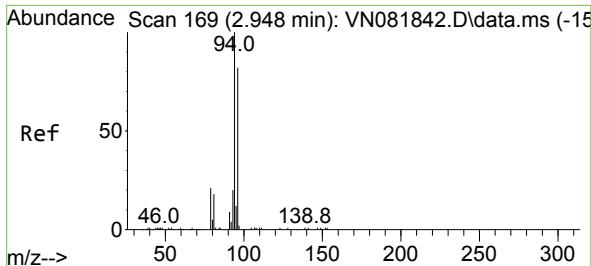
Tgt Ion: 50 Resp: 479

Ion Ratio Lower Upper

50 100

52 31.8 25.5 38.3

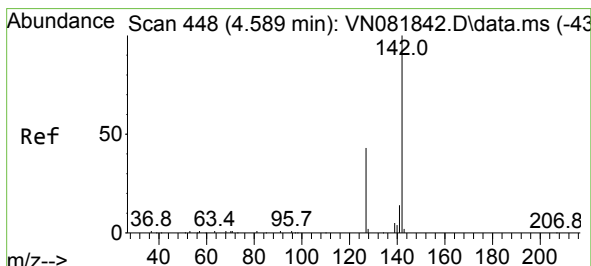
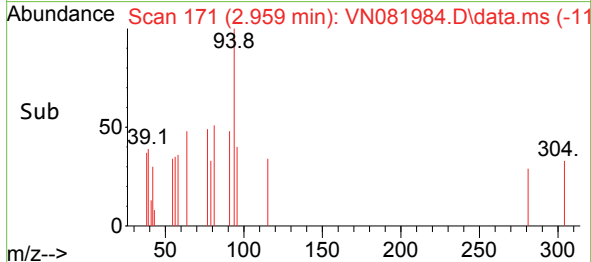
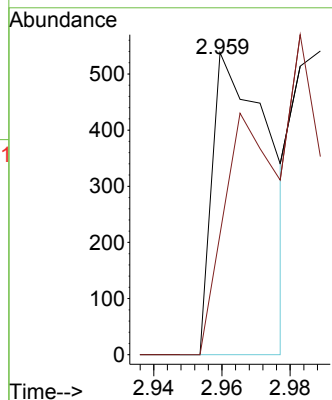
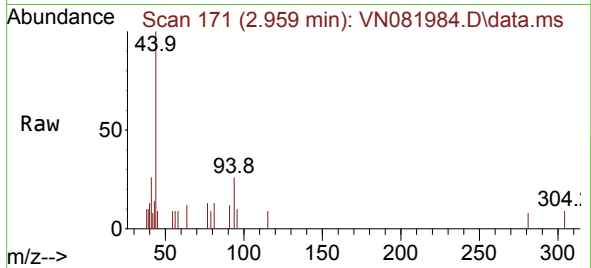




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.959 min Scan# 11  
Delta R.T. 0.011 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

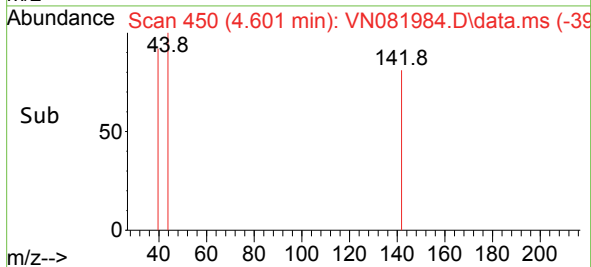
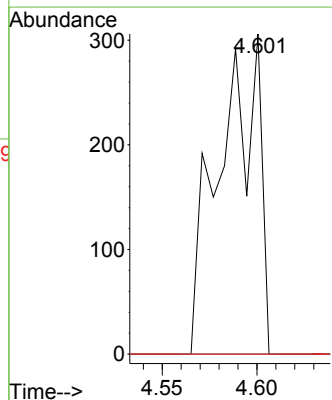
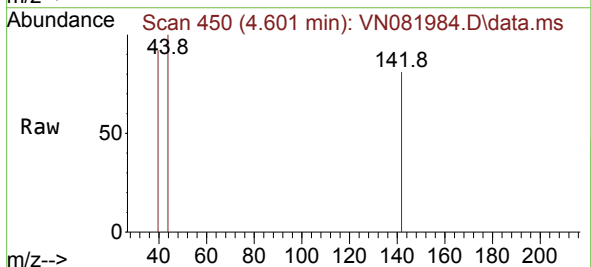
Instrument :  
MSVOA\_N  
ClientSampleId :

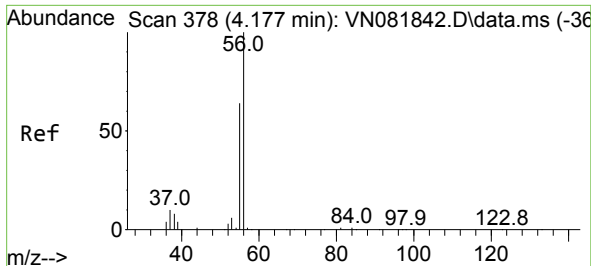
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Ion Ratio Lower Upper  
94 100  
96 40.0 74.8 112.2#



#10  
Methyl Iodide  
Concen: 0.272 ug/l  
RT: 4.601 min Scan# 450  
Delta R.T. 0.012 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

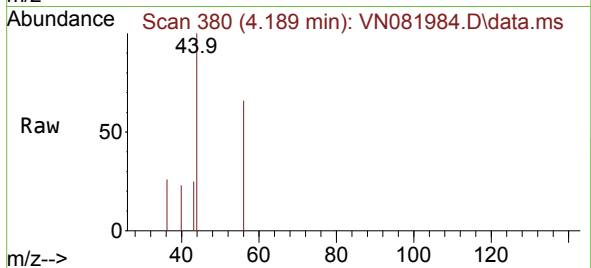
Tgt Ion: 142 Resp: 449  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.8 53.6#  
141 0.0 11.4 17.2#



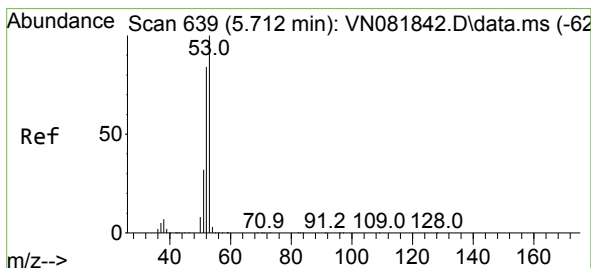
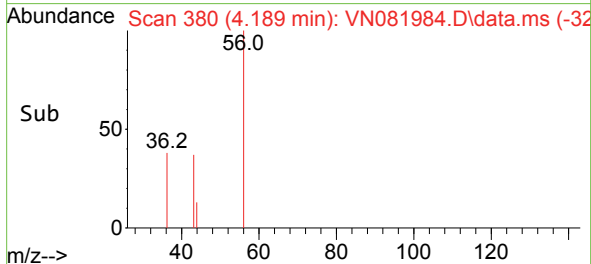
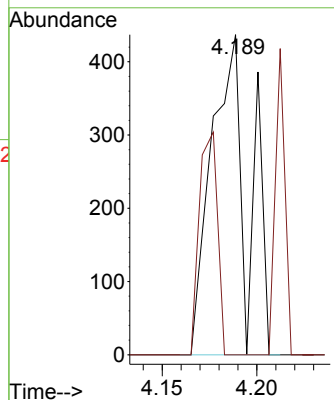


#13  
Acrolein  
Concen: Below Cal  
RT: 4.189 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Instrument :  
MSVOA\_N  
ClientSampleId :

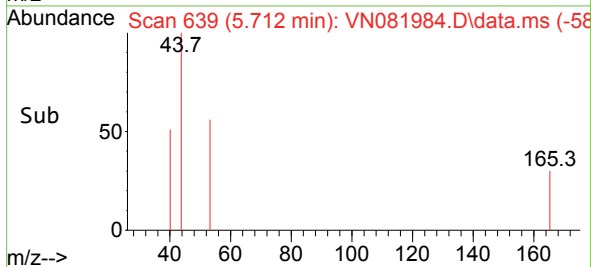
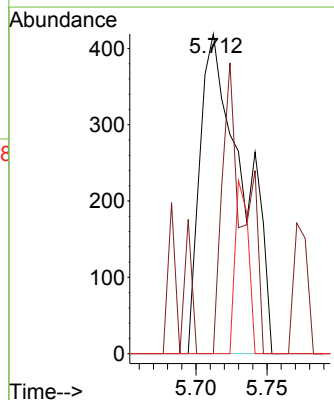
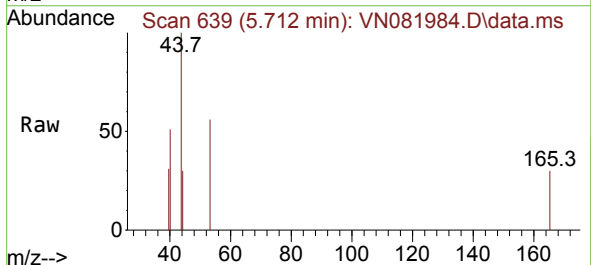


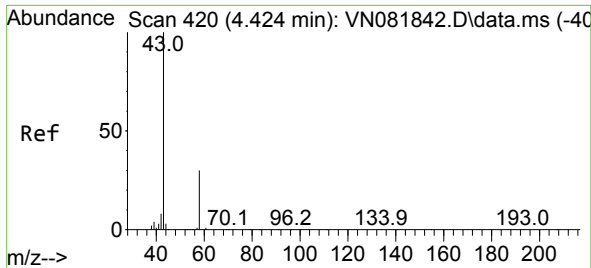
Tgt Ion: 56 Resp: 585  
Ion Ratio Lower Upper  
56 100  
55 34.9 55.8 83.8#



#15  
Acrylonitrile  
Concen: 0.747 ug/l  
RT: 5.712 min Scan# 639  
Delta R.T. 0.000 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Tgt Ion: 53 Resp: 871  
Ion Ratio Lower Upper  
53 100  
52 47.5 66.1 99.1#  
51 16.6 29.4 44.2#

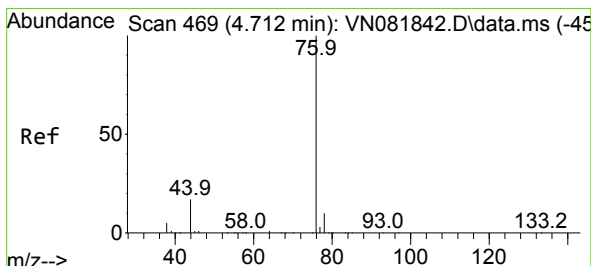
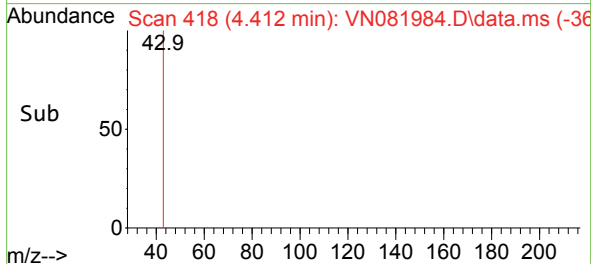
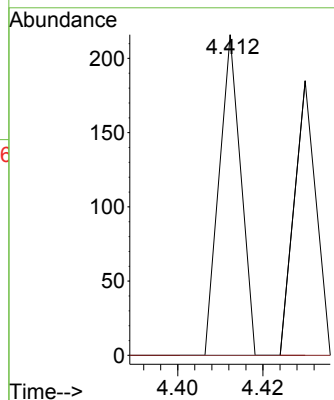
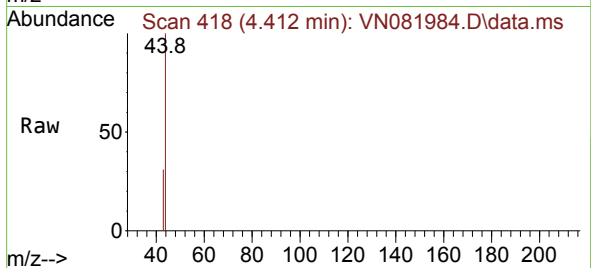




#16  
Acetone  
Concen: Below Cal  
RT: 4.412 min Scan# 41  
Delta R.T. -0.012 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

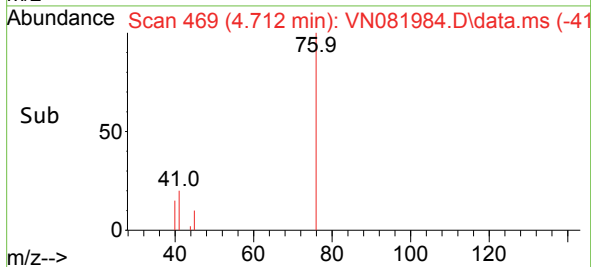
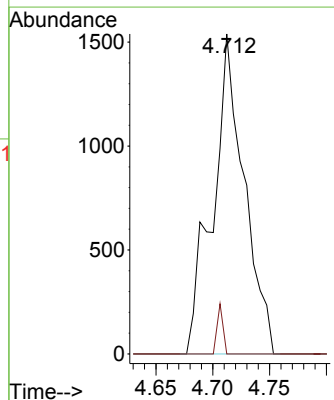
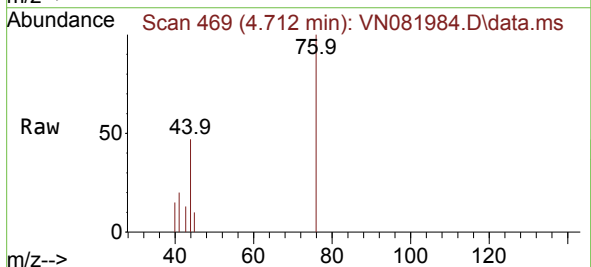
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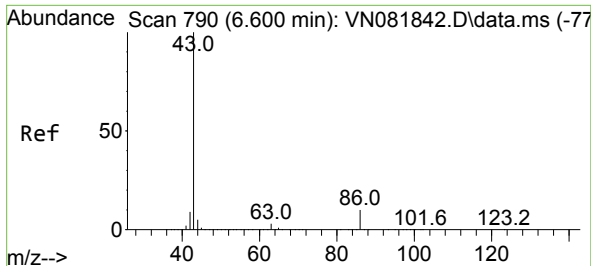
Tgt Ion: 43 Resp: 76  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.2 37.8#



#17  
Carbon Disulfide  
Concen: 0.514 ug/l  
RT: 4.712 min Scan# 469  
Delta R.T. 0.000 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Tgt Ion: 76 Resp: 2964  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#

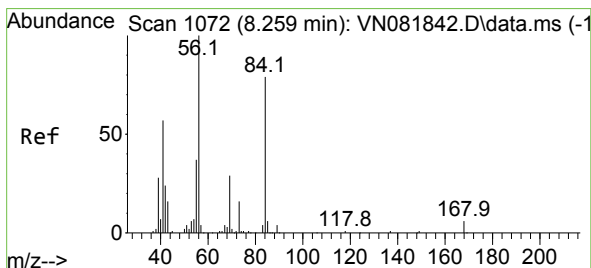
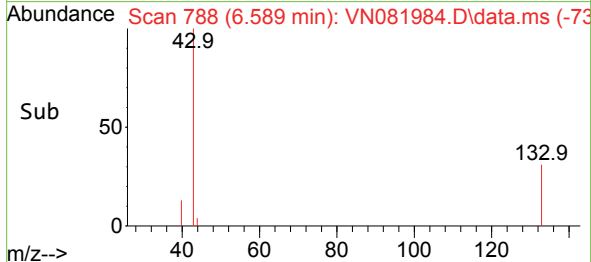
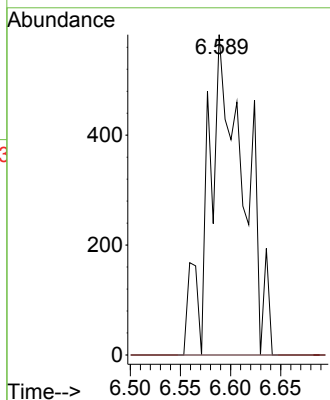
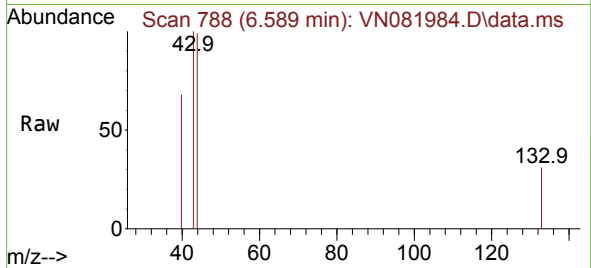




#23  
 Vinyl Acetate  
 Concen: 0.226 ug/l  
 RT: 6.589 min Scan# 71  
 Delta R.T. -0.012 min  
 Lab File: VN081984.D  
 Acq: 03 May 2024 11:48

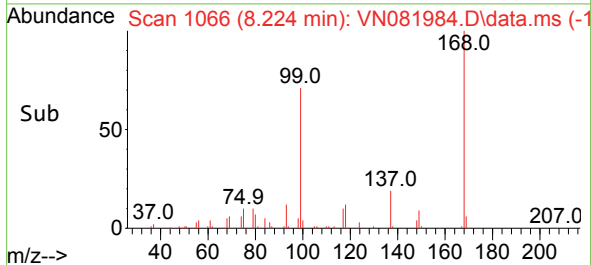
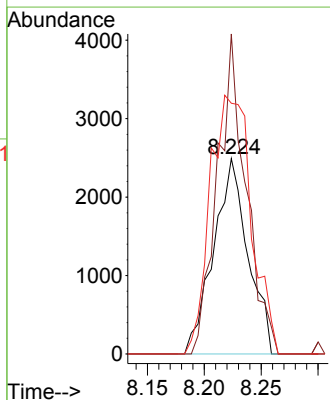
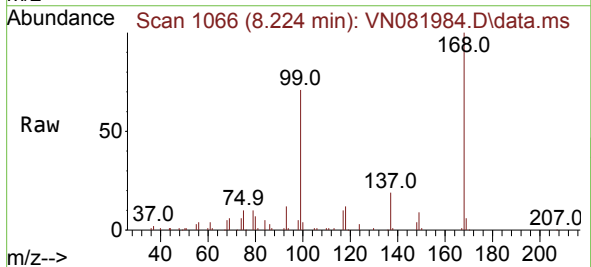
Instrument :  
 MSVOA\_N  
 ClientSampleId :

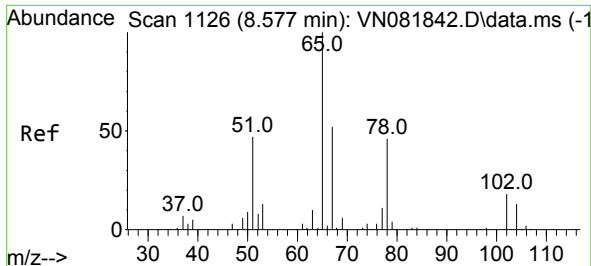
Tgt Ion: 43 Resp: 1439  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 10.2 15.4#



#31  
 Cyclohexane  
 Concen: 1.304 ug/l  
 RT: 8.224 min Scan# 1066  
 Delta R.T. -0.035 min  
 Lab File: VN081984.D  
 Acq: 03 May 2024 11:48

Tgt Ion: 56 Resp: 5247  
 Ion Ratio Lower Upper  
 56 100  
 69 163.8 24.4 36.6#  
 84 128.3 77.0 115.4#





#33

1,2-Dichloroethane-d4

Concen: 47.519 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081984.D

Acq: 03 May 2024 11:48

Instrument :

MSVOA\_N

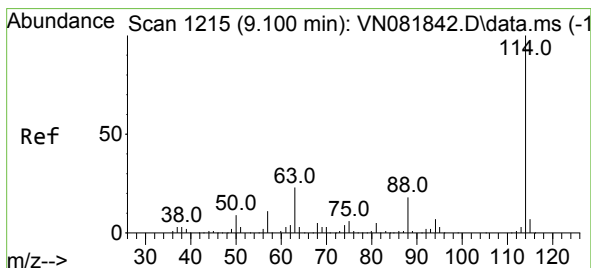
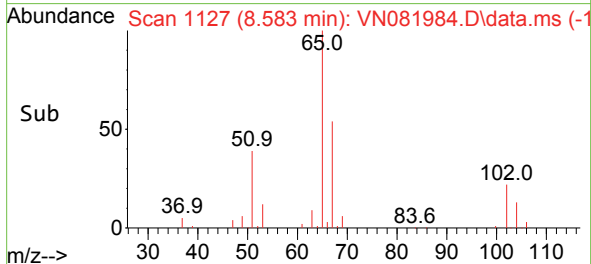
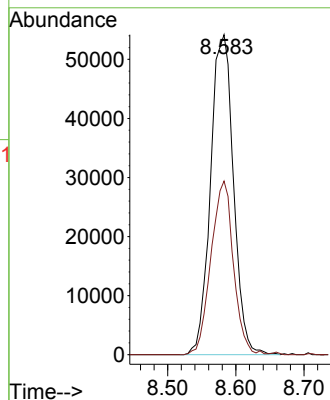
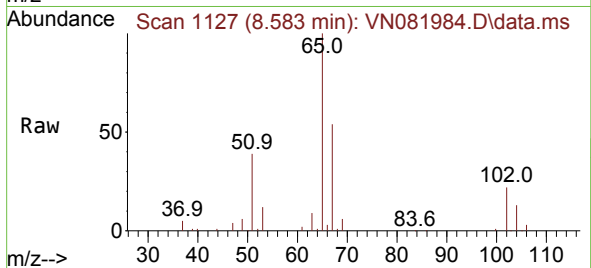
ClientSampleId :

Tgt Ion: 65 Resp: 126919

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN081984.D

Acq: 03 May 2024 11:48

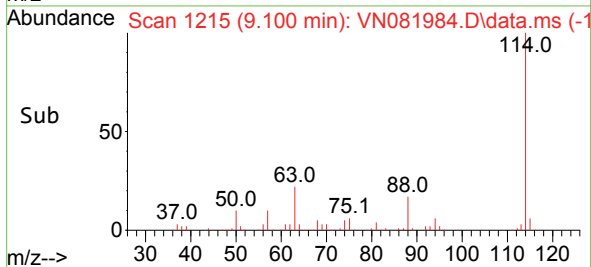
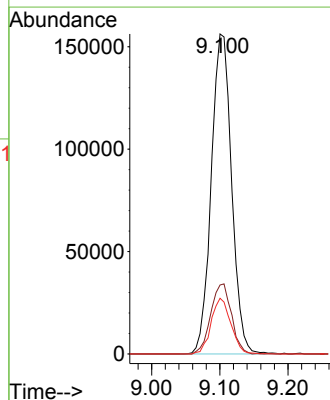
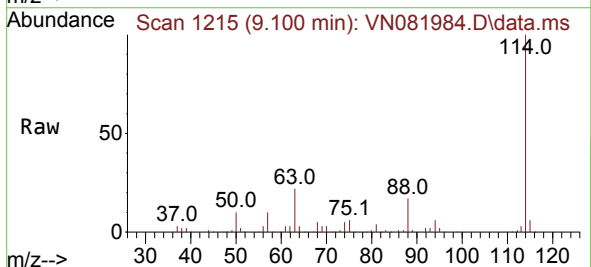
Tgt Ion: 114 Resp: 324688

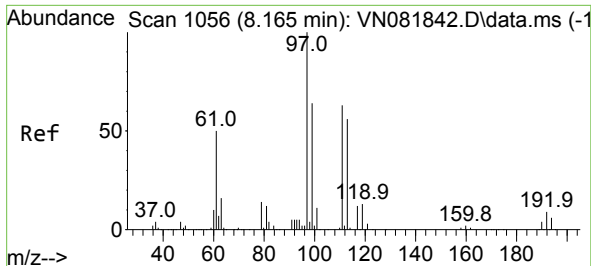
Ion Ratio Lower Upper

114 100

63 21.6 0.0 41.0

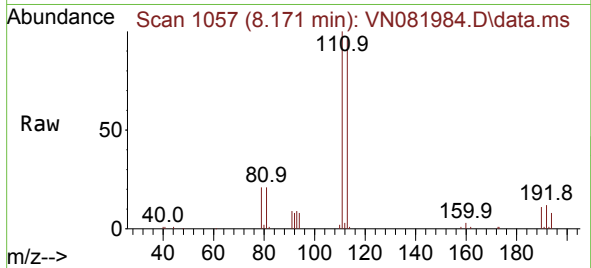
88 17.4 0.0 31.4



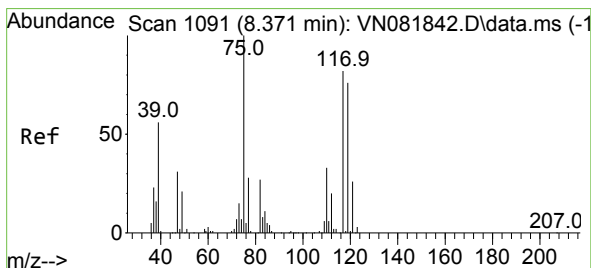
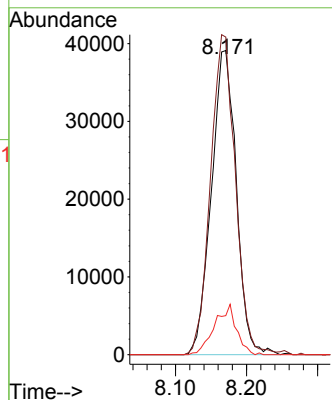
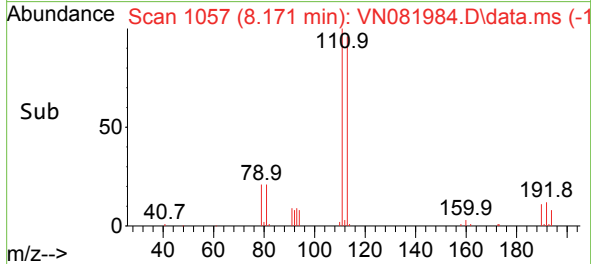


#35  
Dibromofluoromethane  
Concen: 48.711 ug/l  
RT: 8.171 min Scan# 1056  
Delta R.T. 0.006 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Instrument :  
MSVOA\_N  
ClientSampleId :

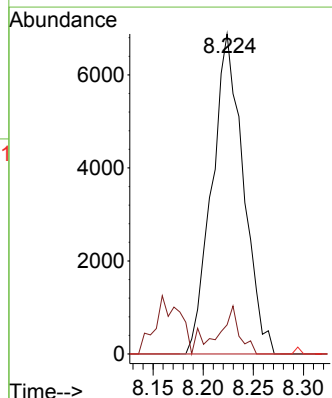
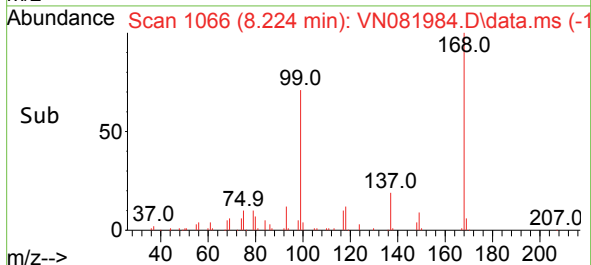
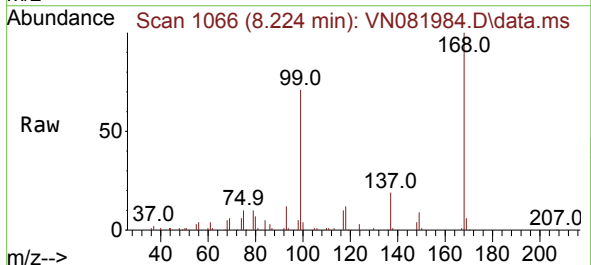


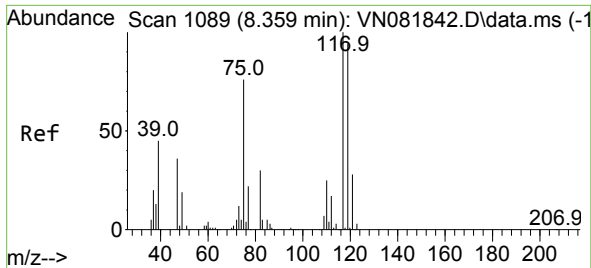
Tgt Ion:113 Resp: 95226  
Ion Ratio Lower Upper  
113 100  
111 104.6 83.4 125.2  
192 14.5 14.0 21.0



#36  
1,1-Dichloropropene  
Concen: 4.707 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

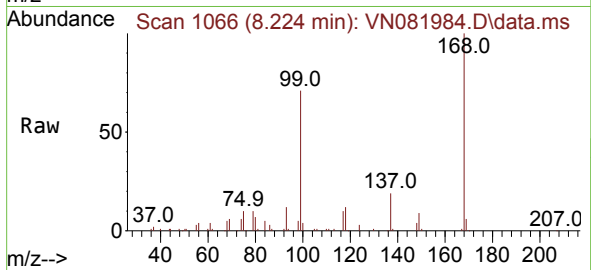
Tgt Ion: 75 Resp: 14969  
Ion Ratio Lower Upper  
75 100  
110 7.1 17.8 53.5#  
77 0.0 25.0 37.4#



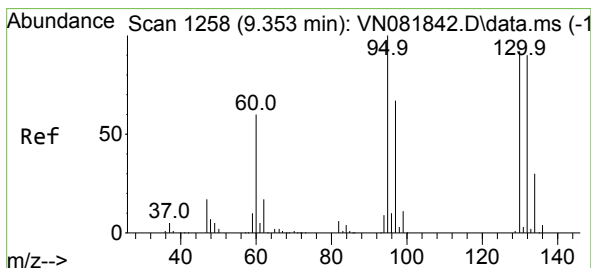
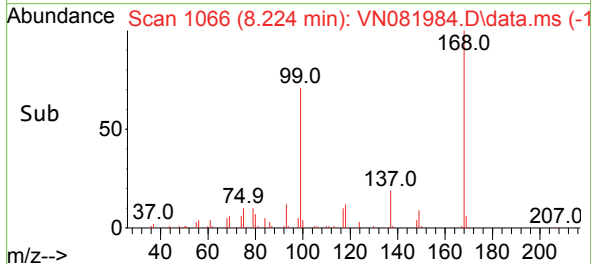
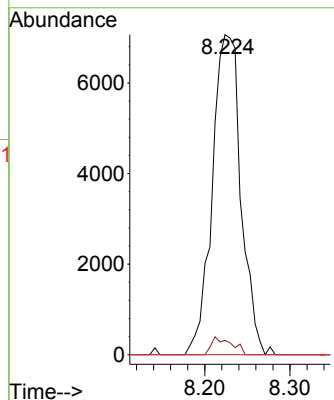


#38  
Carbon Tetrachloride  
Concen: 5.328 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Instrument :  
MSVOA\_N  
ClientSampleId :

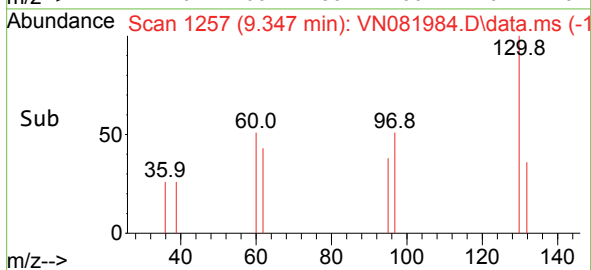
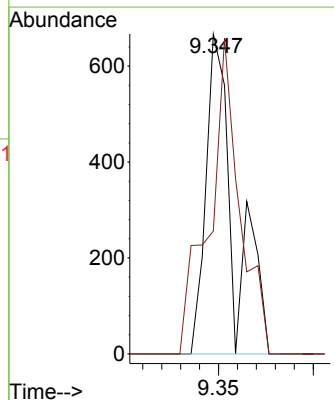
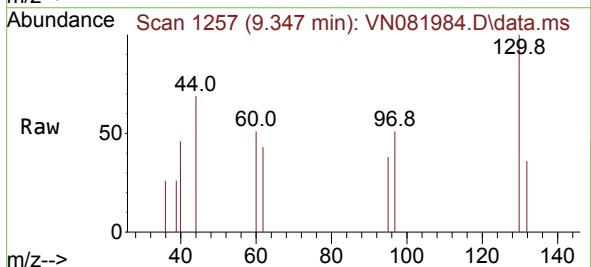


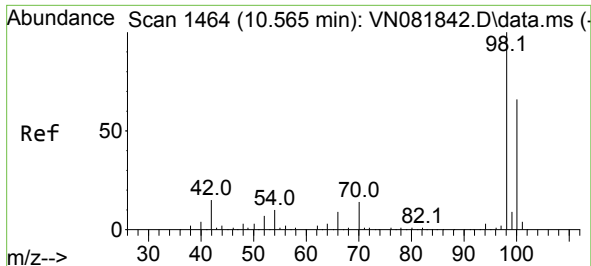
Tgt Ion:117 Resp: 16562  
Ion Ratio Lower Upper  
117 100  
119 4.5 76.5 114.7#  
121 0.0 23.9 35.9#



#44  
Trichloroethene  
Concen: 0.313 ug/l  
RT: 9.347 min Scan# 1257  
Delta R.T. -0.006 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Tgt Ion:130 Resp: 690  
Ion Ratio Lower Upper  
130 100  
95 38.4 0.0 195.4

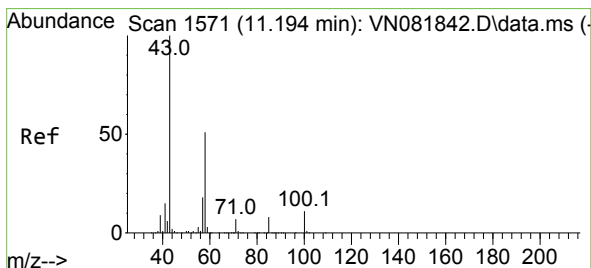
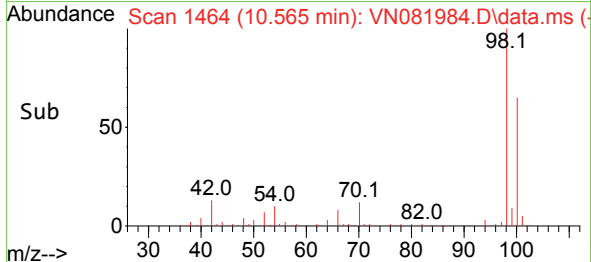
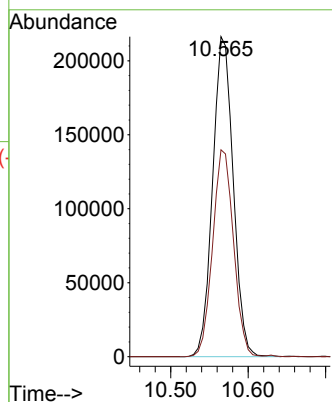
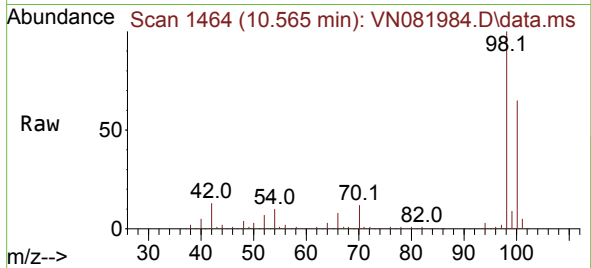




#50  
Toluene-d8  
Concen: 51.961 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

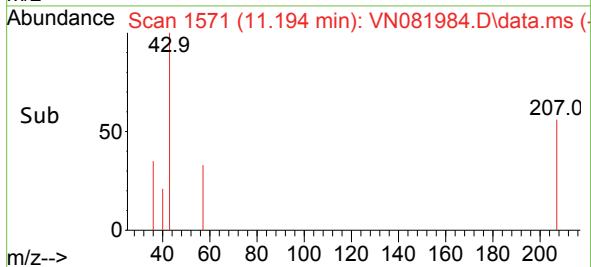
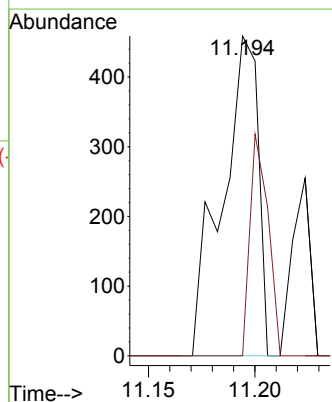
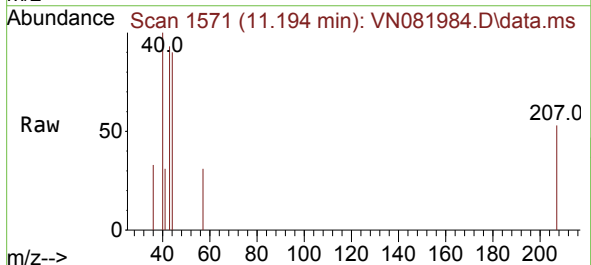
Instrument :  
MSVOA\_N  
ClientSampleId :

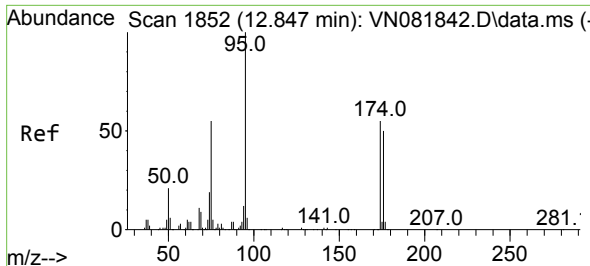
Tgt Ion: 98 Resp: 398942  
Ion Ratio Lower Upper  
98 100  
100 65.6 51.8 77.6



#59  
2-Hexanone  
Concen: 0.200 ug/l  
RT: 11.194 min Scan# 1571  
Delta R.T. 0.000 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Tgt Ion: 43 Resp: 543  
Ion Ratio Lower Upper  
43 100  
58 34.6 28.3 84.9

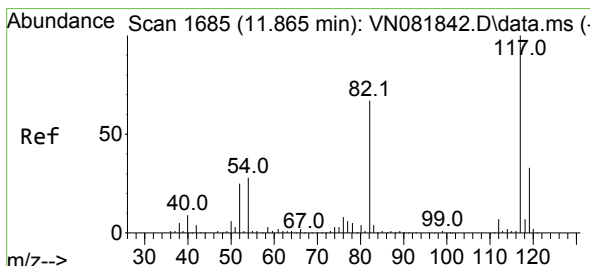
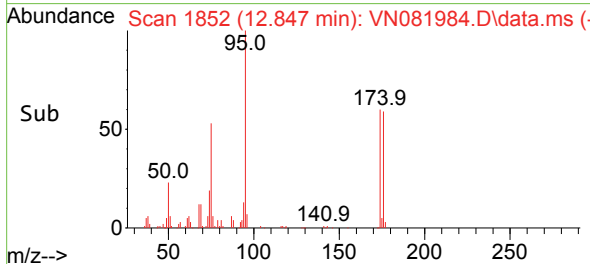
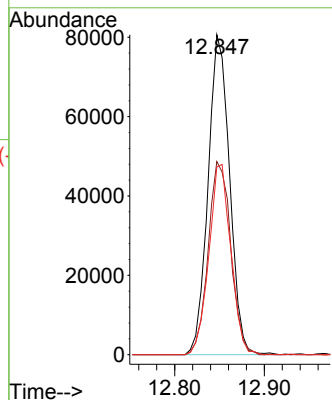
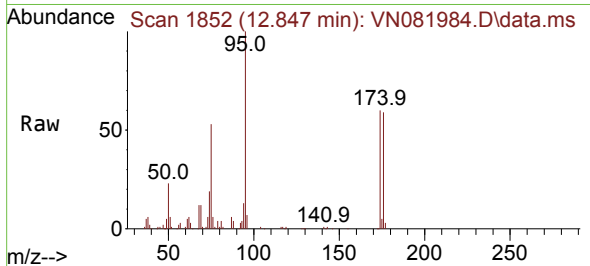




#62  
4-Bromofluorobenzene  
Concen: 44.273 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

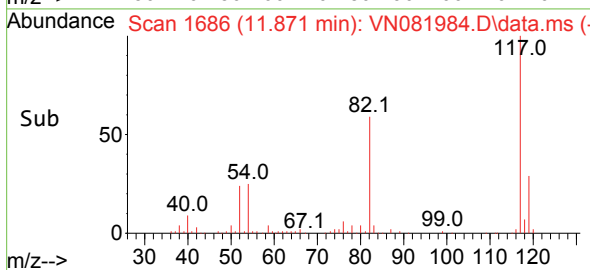
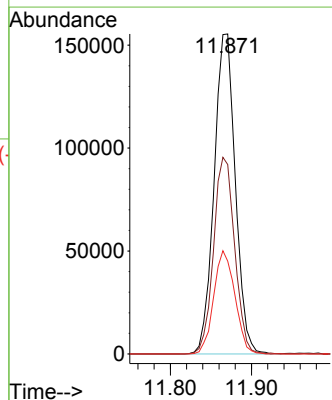
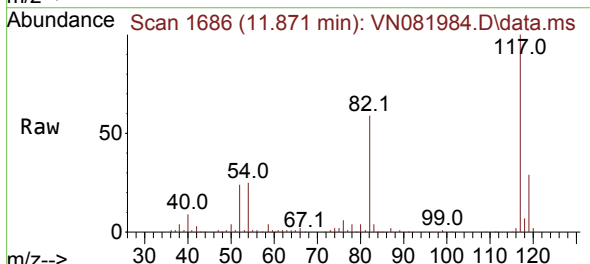
Instrument :  
MSVOA\_N  
ClientSampleId :

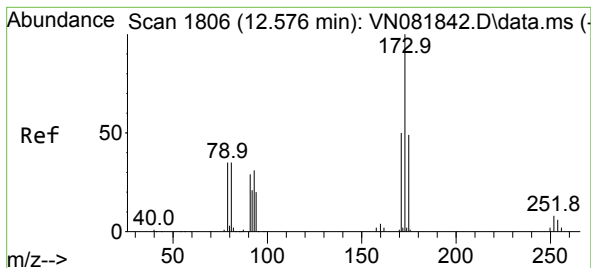
Tgt Ion: 95 Resp: 134371  
Ion Ratio Lower Upper  
95 100  
174 63.4 0.0 160.6  
176 60.6 0.0 152.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Tgt Ion: 117 Resp: 282873  
Ion Ratio Lower Upper  
117 100  
82 59.2 44.6 66.8  
119 29.0 25.9 38.9





#71

Bromoform

Concen: 0.326 ug/l

RT: 12.835 min Scan# 11

Delta R.T. 0.259 min

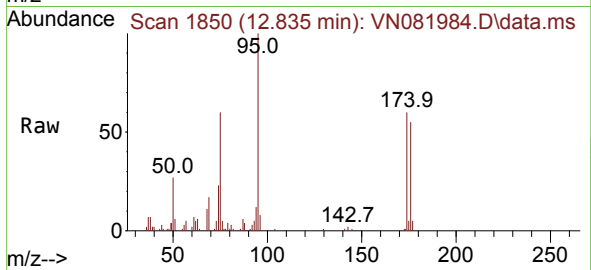
Lab File: VN081984.D

Acq: 03 May 2024 11:48

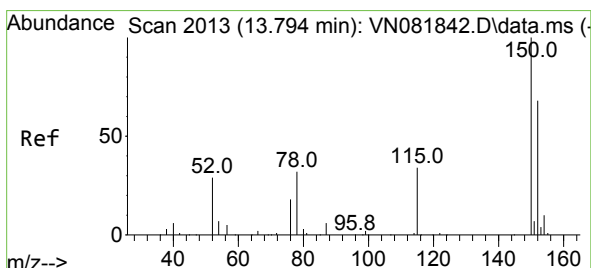
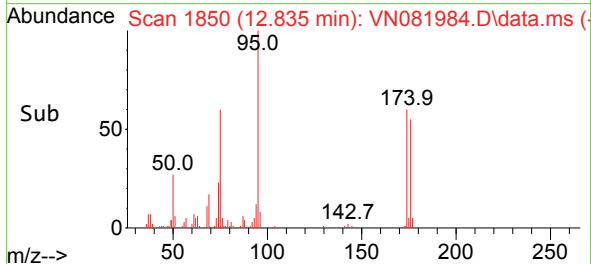
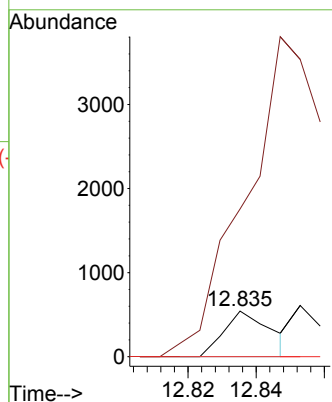
Instrument :

MSVOA\_N

ClientSampleId :



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 173   | Resp: | 514   |
| Ion Ratio | Lower | Upper |       |
| 173       | 100   |       |       |
| 175       | 899.4 | 24.6  | 74.0# |
| 254       | 0.0   | 0.0   | 0.0   |



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

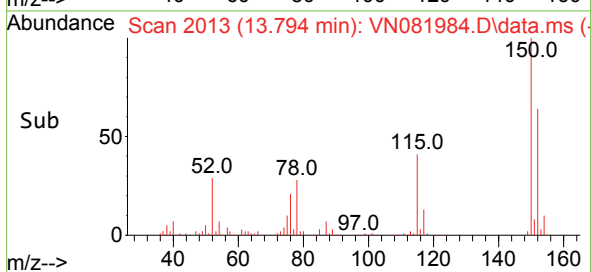
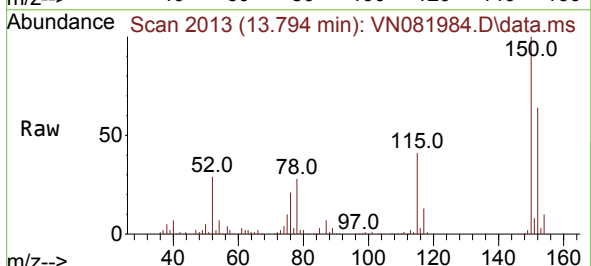
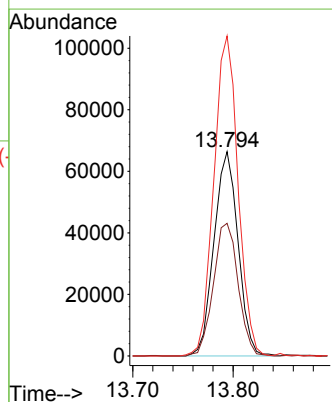
RT: 13.794 min Scan# 2013

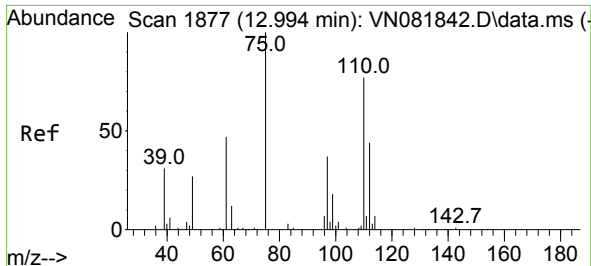
Delta R.T. 0.000 min

Lab File: VN081984.D

Acq: 03 May 2024 11:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 110458 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 66.6  | 30.4  | 91.3   |
| 150       | 157.4 | 0.0   | 353.2  |

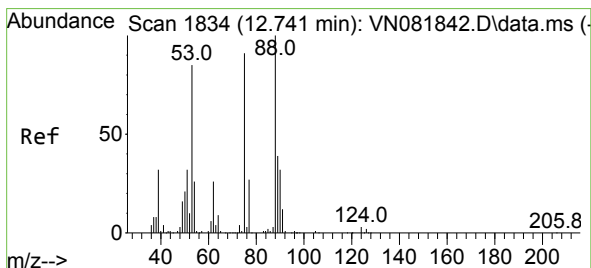
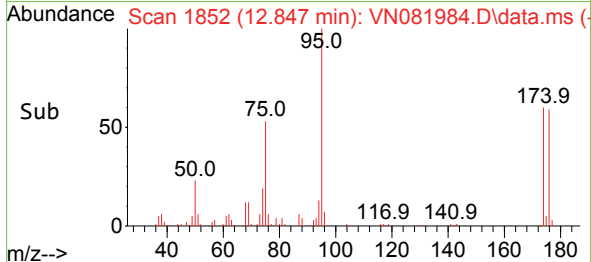
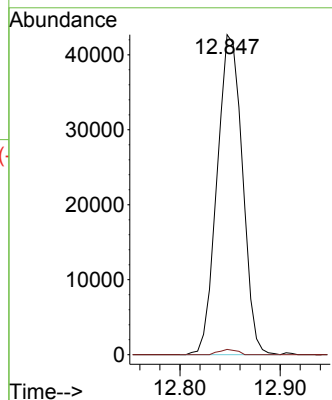
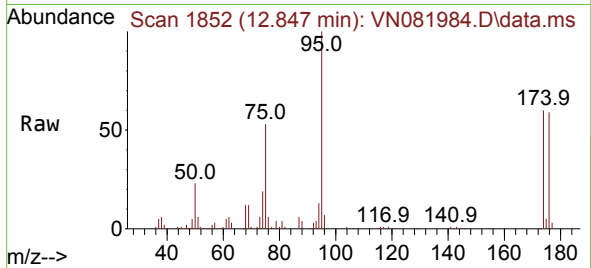




#76  
1,2,3-Trichloropropane  
Concen: 26.147 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.147 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

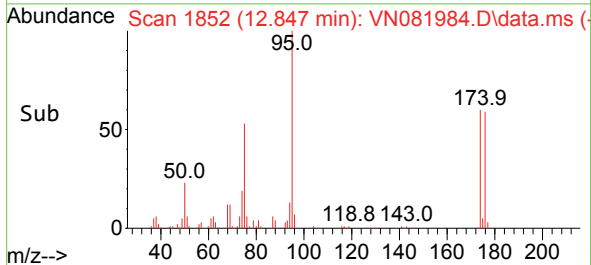
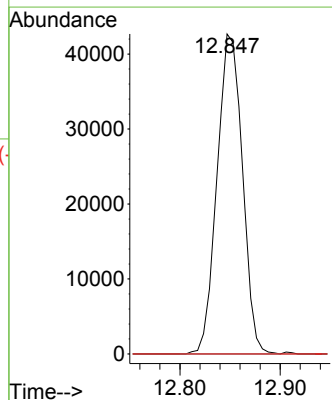
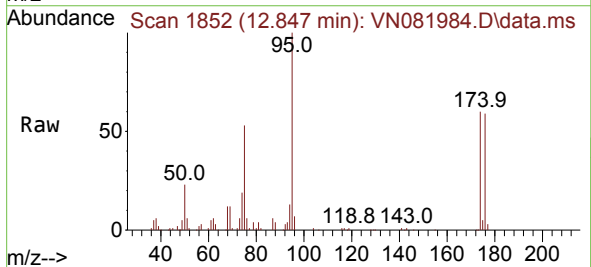
Instrument :  
MSVOA\_N  
ClientSampleId :

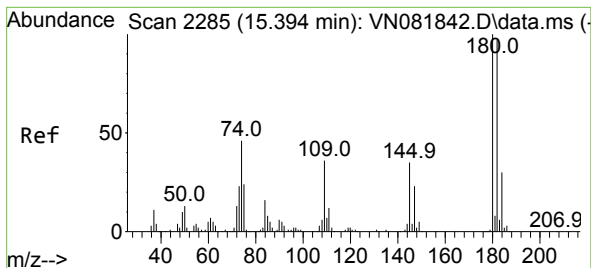
Tgt Ion: 75 Resp: 74882  
Ion Ratio Lower Upper  
75 100  
77 1.2 90.5 271.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 53.578 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.106 min  
Lab File: VN081984.D  
Acq: 03 May 2024 11:48

Tgt Ion: 75 Resp: 74882  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.9 109.3#  
89 0.0 39.1 58.7#





#93

1,2,4-Trichlorobenzene

Concen: 0.432 ug/l

RT: 15.394 min Scan# 21

Delta R.T. 0.000 min

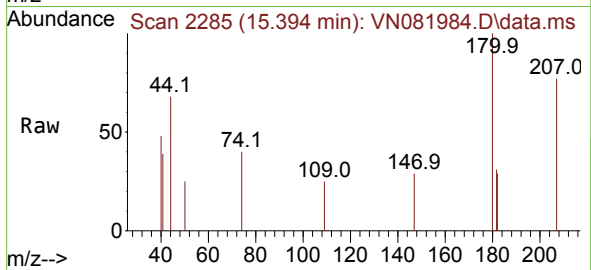
Lab File: VN081984.D

Acq: 03 May 2024 11:48

Instrument :

MSVOA\_N

ClientSampleId :



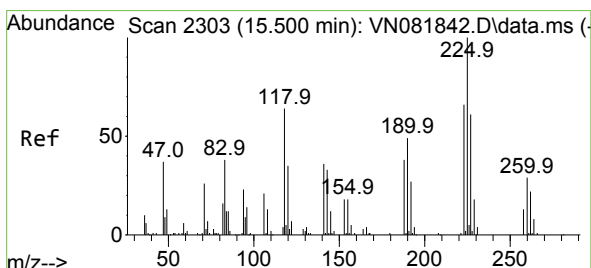
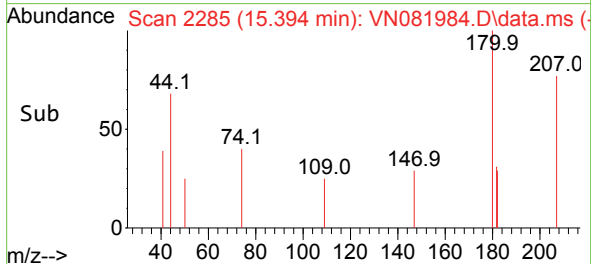
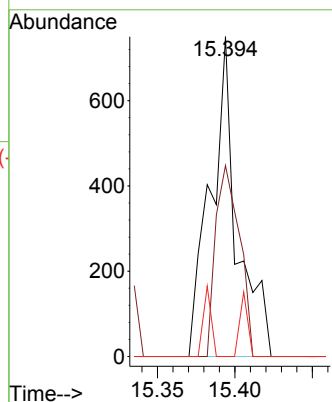
Tgt Ion:180 Resp: 888

Ion Ratio Lower Upper

180 100

182 54.1 46.7 140.0

145 6.0 16.2 48.6#



#94

Hexachlorobutadiene

Concen: 0.689 ug/l

RT: 15.506 min Scan# 2304

Delta R.T. 0.006 min

Lab File: VN081984.D

Acq: 03 May 2024 11:48

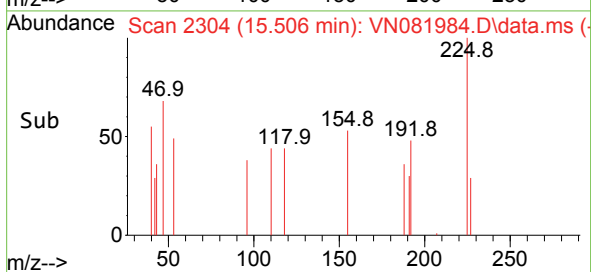
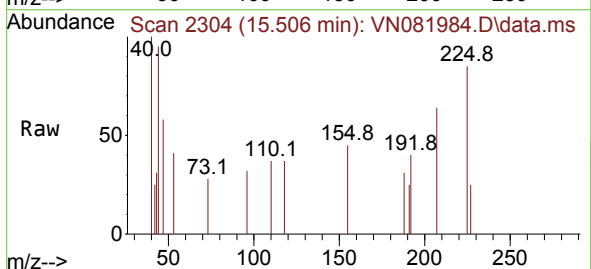
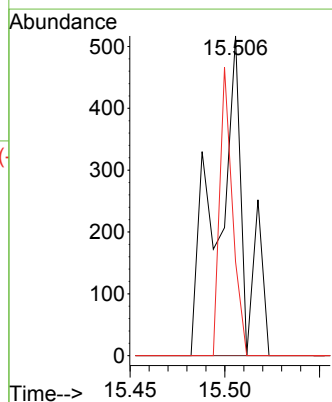
Tgt Ion:225 Resp: 522

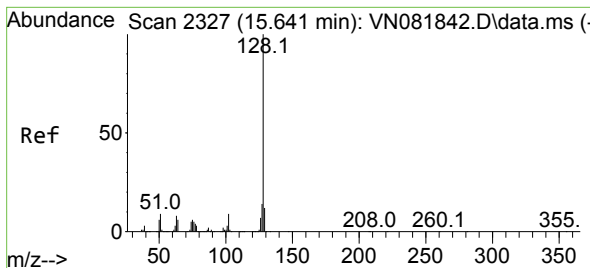
Ion Ratio Lower Upper

225 100

223 0.0 31.1 93.2#

227 41.8 30.6 91.6





#95

Naphthalene

Concen: 0.370 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN081984.D

Acq: 03 May 2024 11:48

Instrument :

MSVOA\_N

ClientSampleId :

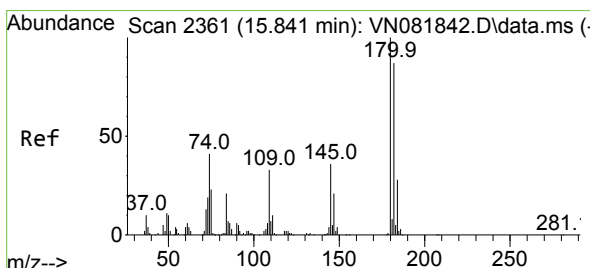
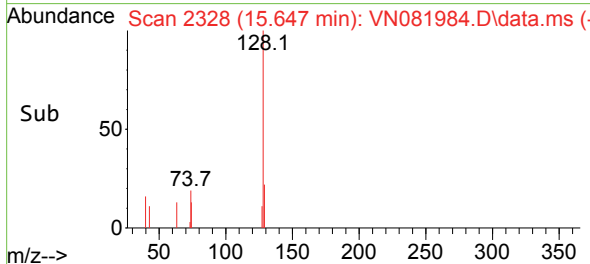
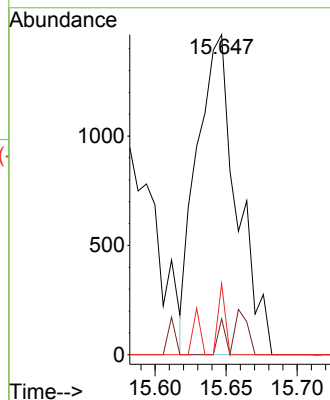
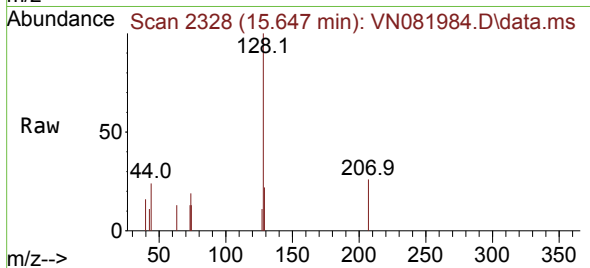
Tgt Ion:128 Resp: 2879

Ion Ratio Lower Upper

128 100

127 6.4 10.1 15.1#

129 4.0 8.9 13.3#



#96

1,2,3-Trichlorobenzene

Concen: 0.358 ug/l

RT: 15.853 min Scan# 2363

Delta R.T. 0.012 min

Lab File: VN081984.D

Acq: 03 May 2024 11:48

Tgt Ion:180 Resp: 707

Ion Ratio Lower Upper

180 100

182 76.5 46.0 137.8

145 0.0 17.1 51.3#

