

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052924\  
 Data File : VN082363.D  
 Acq On : 29 May 2024 10:51  
 Operator : JC\MD  
 Sample : VN0529MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: May 30 05:39:49 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051524W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 16 05:21:06 2024  
 Response via : Initial Calibration

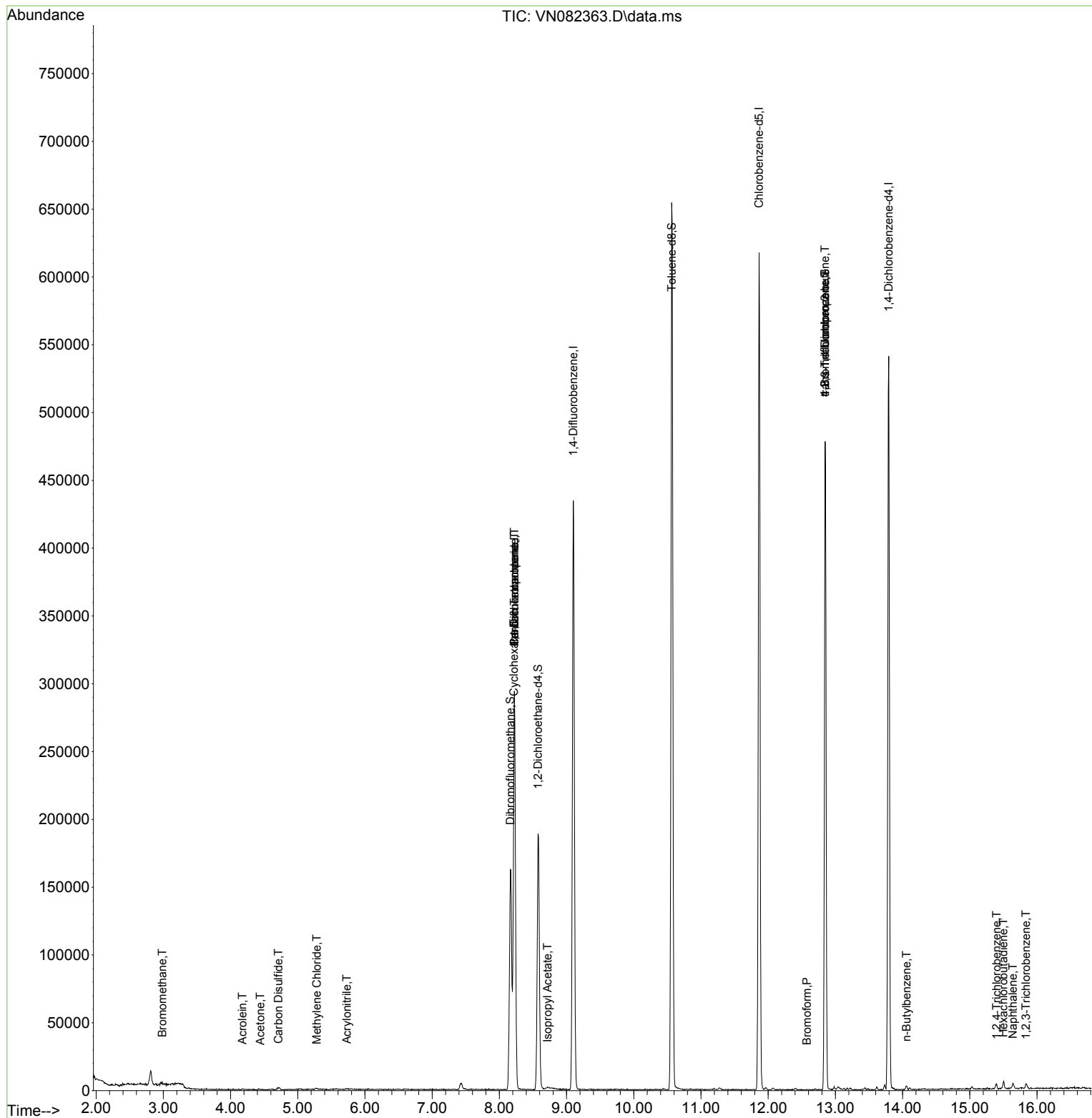
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 8.224          | 168  | 201071              | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 350245              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 325785              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 138153              | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 156682              | 49.349 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 98.700%  |        |        |          |
| 35) Dibromofluoromethane      | 8.165          | 113  | 113455              | 52.658 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 105.320% |        |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 438065              | 53.032 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 106.060% |        |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 152571              | 51.748 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 64 - 133 |      | Recovery = 103.500% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 5) Bromomethane               | 2.983          | 94   | 1177                | 0.663  | ug/l # | 78       |
| 13) Acrolein                  | 4.177          | 56   | 245                 | 0.649  | ug/l # | 32       |
| 15) Acrylonitrile             | 5.730          | 53   | 698                 | 0.529  | ug/l # | 57       |
| 16) Acetone                   | 4.442          | 43   | 712                 | 0.547  | ug/l # | 43       |
| 17) Carbon Disulfide          | 4.712          | 76   | 3257                | 0.459  | ug/l # | 74       |
| 20) Methylene Chloride        | 5.283          | 84   | 726                 | 0.276  | ug/l # | 60       |
| 31) Cyclohexane               | 8.218          | 56   | 5839                | 1.151  | ug/l # | 49       |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 17742               | 4.910  | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 8.224          | 117  | 21806               | 5.953  | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.718          | 43   | 1541                | 0.215  | ug/l # | 52       |
| 71) Bromoform                 | 12.576         | 173  | 58                  | 0.731  | ug/l # | 28       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 89880               | 30.910 | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 89880               | 72.297 | ug/l # | 12       |
| 89) n-Butylbenzene            | 14.059         | 91   | 2113                | 0.269  | ug/l # | 91       |
| 93) 1,2,4-Trichlorobenzene    | 15.400         | 180  | 1706                | 0.679  | ug/l # | 65       |
| 94) Hexachlorobutadiene       | 15.500         | 225  | 1104                | 1.001  | ug/l   | 87       |
| 95) Naphthalene               | 15.641         | 128  | 5507                | 0.699  | ug/l # | 77       |
| 96) 1,2,3-Trichlorobenzene    | 15.835         | 180  | 1856                | 0.737  | ug/l   | 83       |
| -----                         |                |      |                     |        |        |          |

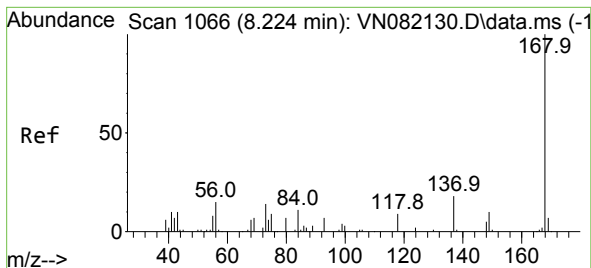
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 16 05:21:06 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

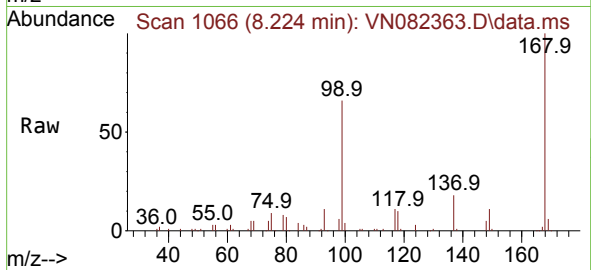
Lab File: VN082363.D

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Instrument :

MSVOA\_N

ClientSampleId :

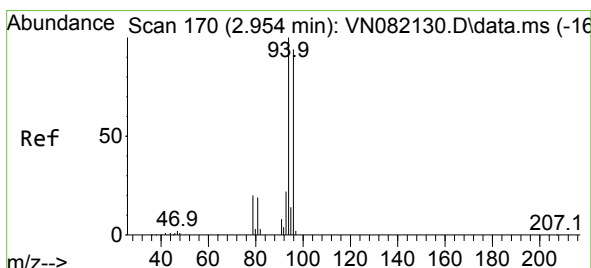
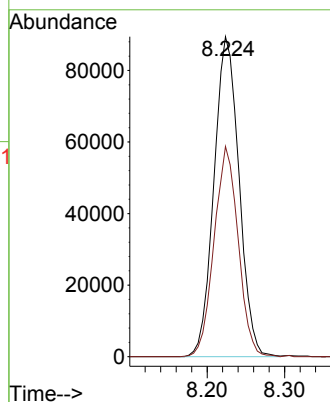
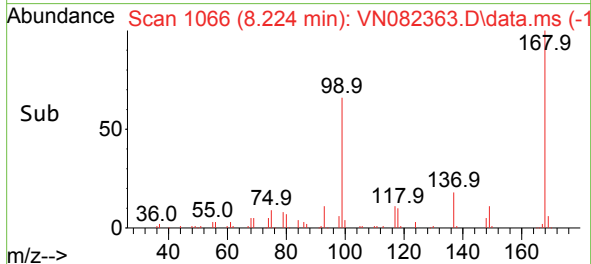


Tgt Ion:168 Resp: 201071

Ion Ratio Lower Upper

168 100

99 65.7 48.2 72.4



#5

Bromomethane

Concen: 0.663 ug/l

RT: 2.983 min Scan# 175

Delta R.T. 0.029 min

Lab File: VN082363.D

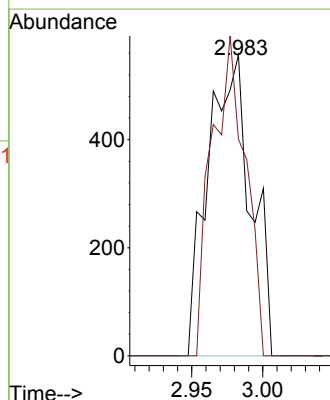
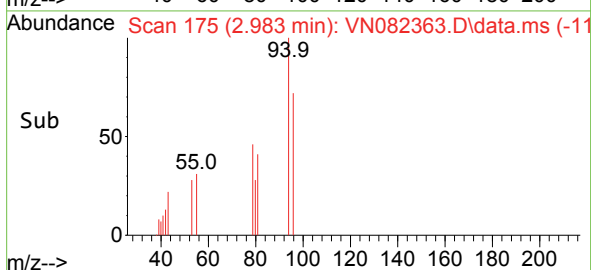
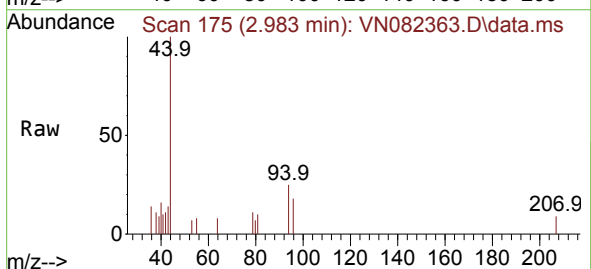
Acq: 29 May 2024 10:51

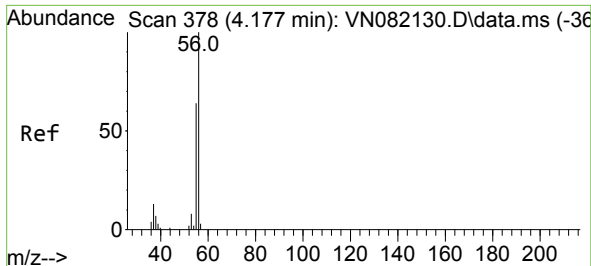
Tgt Ion: 94 Resp: 1177

Ion Ratio Lower Upper

94 100

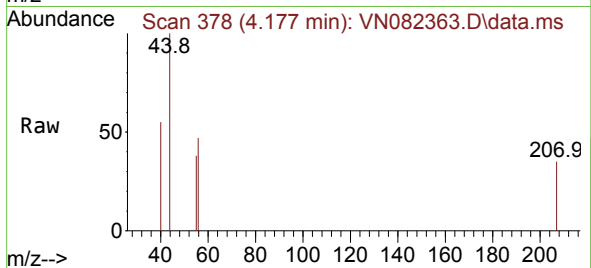
96 72.0 74.8 112.2#



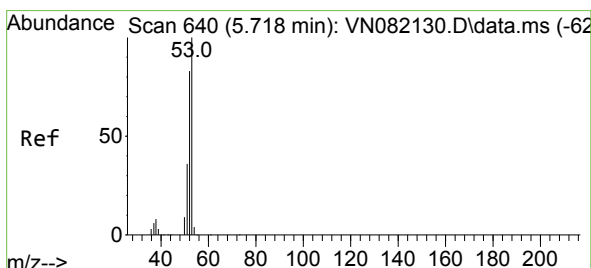
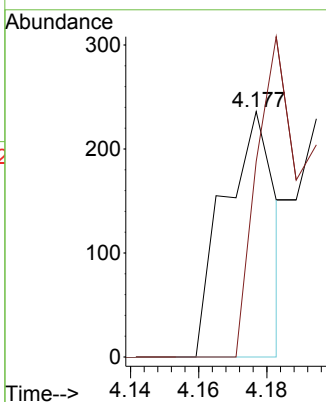
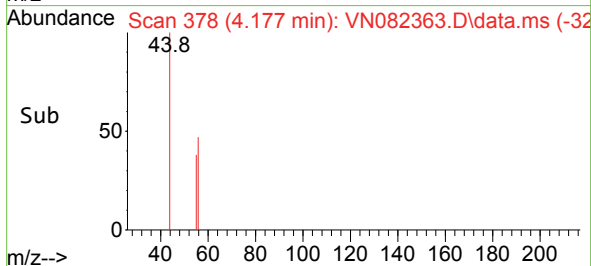


#13  
Acrolein  
Concen: 0.649 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

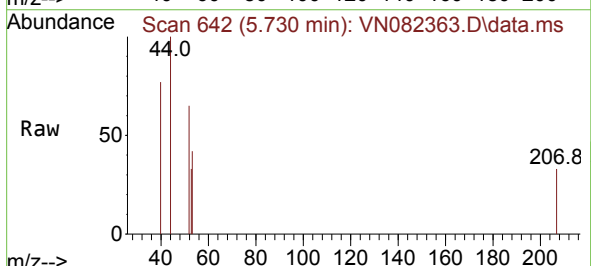
Instrument :  
MSVOA\_N  
ClientSampleId :



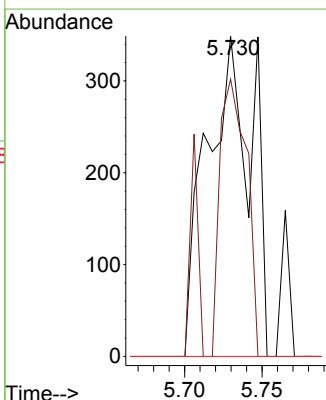
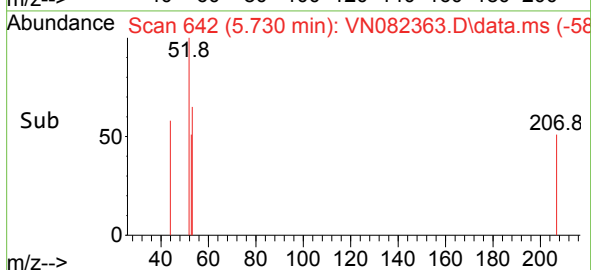
Tgt Ion: 56 Resp: 245  
Ion Ratio Lower Upper  
56 100  
55 125.3 55.8 83.8#

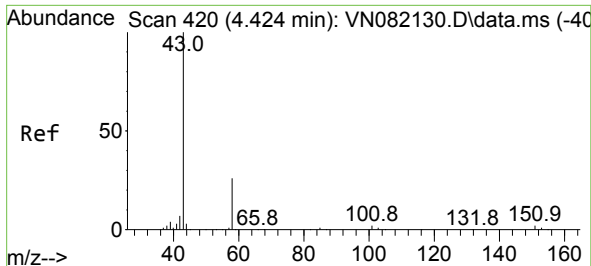


#15  
Acrylonitrile  
Concen: 0.529 ug/l  
RT: 5.730 min Scan# 642  
Delta R.T. 0.012 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51



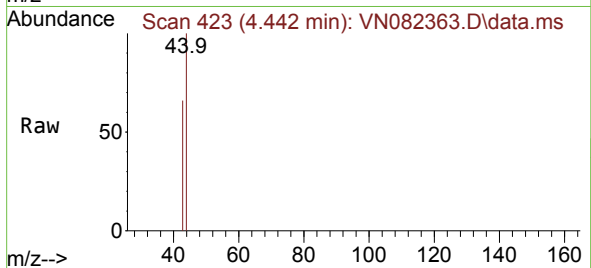
Tgt Ion: 53 Resp: 698  
Ion Ratio Lower Upper  
53 100  
52 52.0 66.1 99.1#  
51 0.0 29.4 44.2#



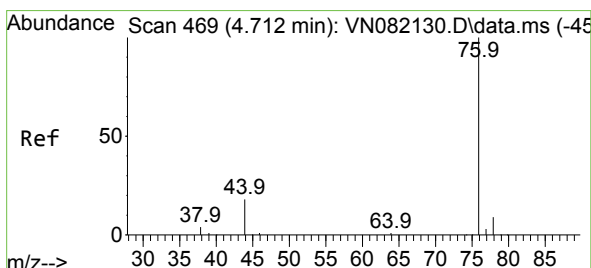
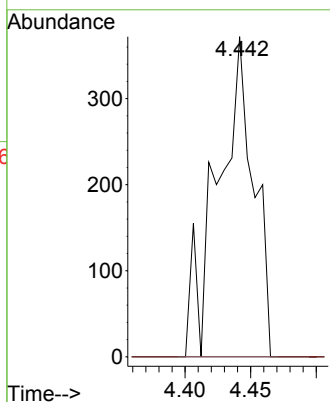
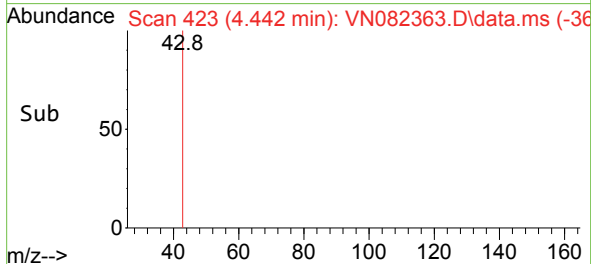


#16  
Acetone  
Concen: 0.547 ug/l  
RT: 4.442 min Scan# 41  
Delta R.T. 0.018 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

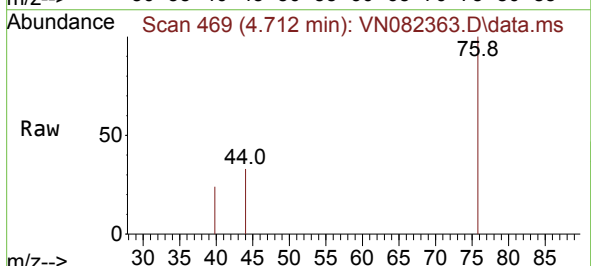
Instrument :  
MSVOA\_N  
ClientSampleId :



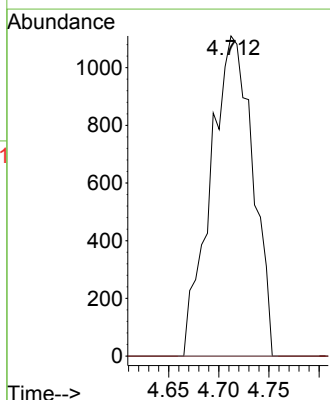
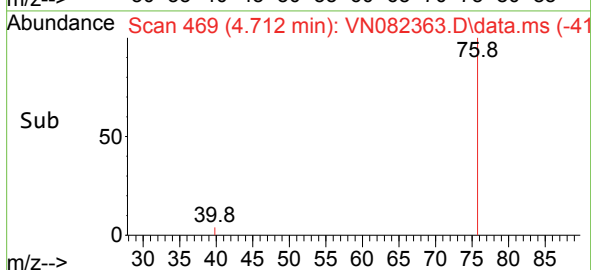
Tgt Ion: 43 Resp: 712  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.2 37.8#

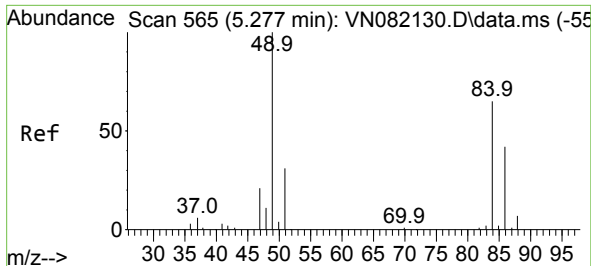


#17  
Carbon Disulfide  
Concen: 0.459 ug/l  
RT: 4.712 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51



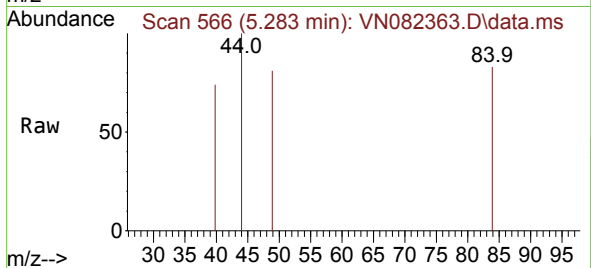
Tgt Ion: 76 Resp: 3257  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.5 11.3#



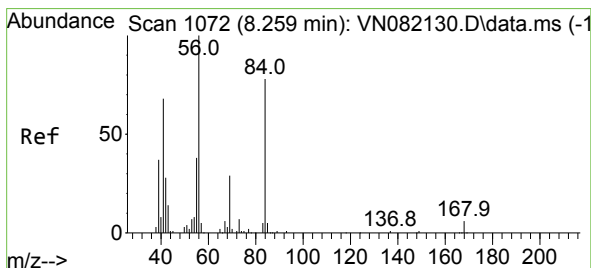
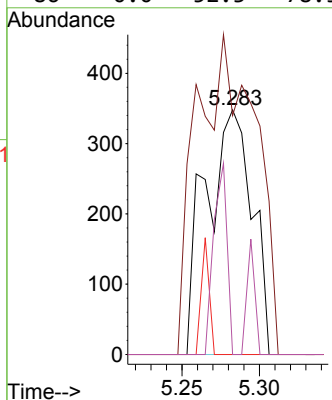


#20  
Methylene Chloride  
Concen: 0.276 ug/l  
RT: 5.283 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

Instrument :  
MSVOA\_N  
ClientSampleId :

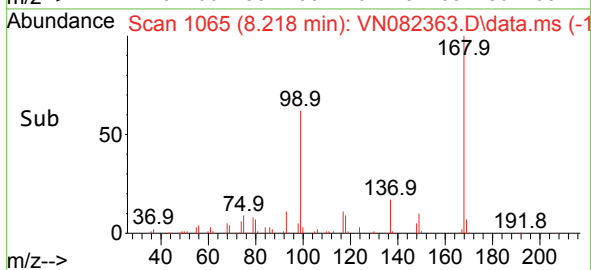
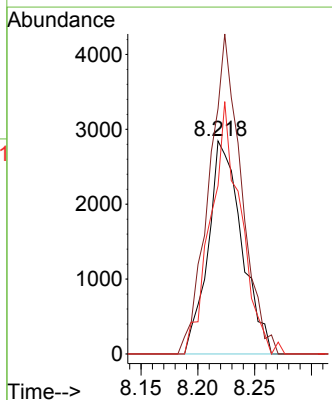
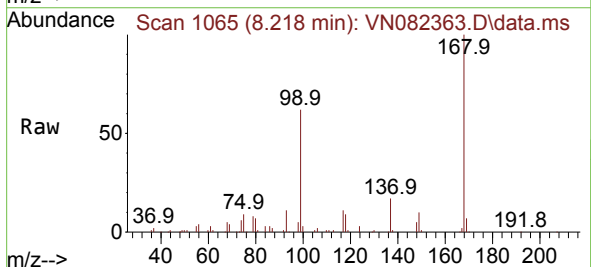


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 726   |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 97.7  | 84.9  | 127.3 |
| 51       | 0.0   | 27.0  | 40.6# |
| 86       | 0.0   | 52.3  | 78.5# |



#31  
Cyclohexane  
Concen: 1.151 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.041 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5839  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 115.2 | 24.4  | 36.6# |
| 84       | 79.0  | 77.0  | 115.4 |





#33

1,2-Dichloroethane-d4

Concen: 49.349 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

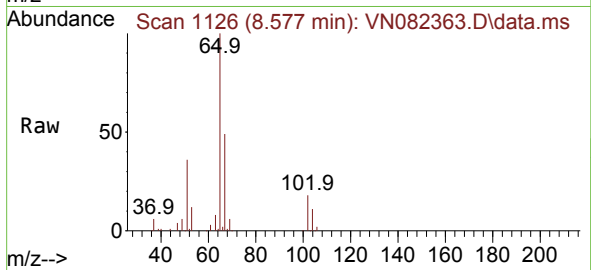
Lab File: VN082363.D

Acq: 29 May 2024 10:51

Instrument :

MSVOA\_N

ClientSampleId :

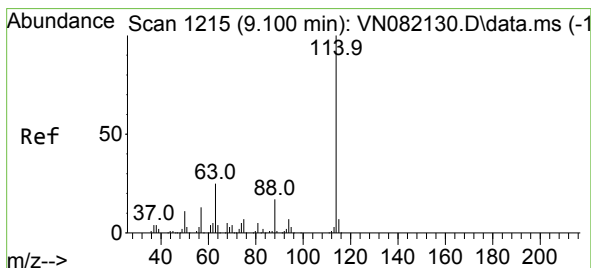
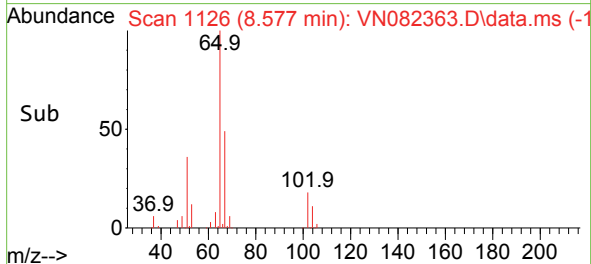
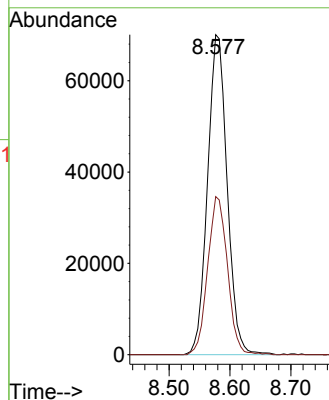


Tgt Ion: 65 Resp: 156682

Ion Ratio Lower Upper

65 100

67 50.0 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: VN082363.D

Acq: 29 May 2024 10:51

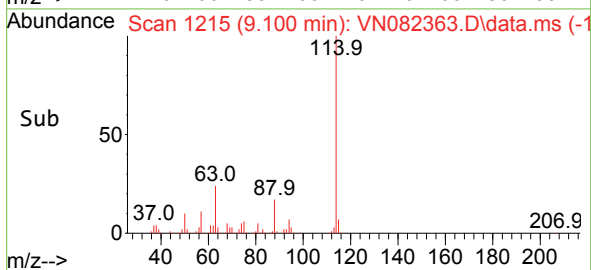
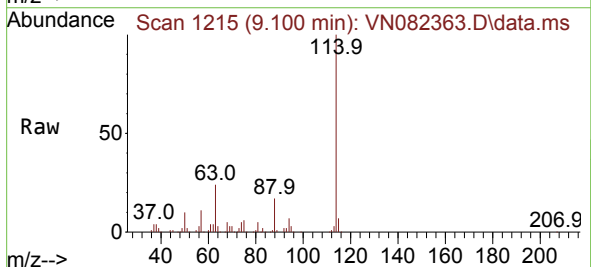
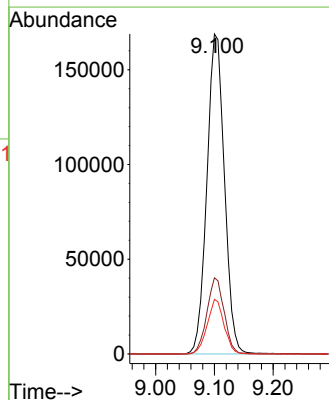
Tgt Ion: 114 Resp: 350245

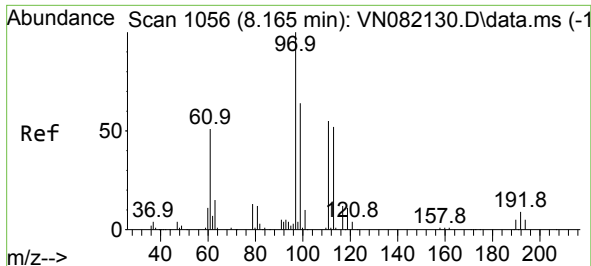
Ion Ratio Lower Upper

114 100

63 23.8 0.0 41.0

88 17.1 0.0 31.4

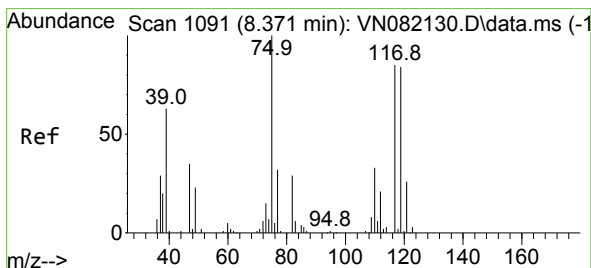
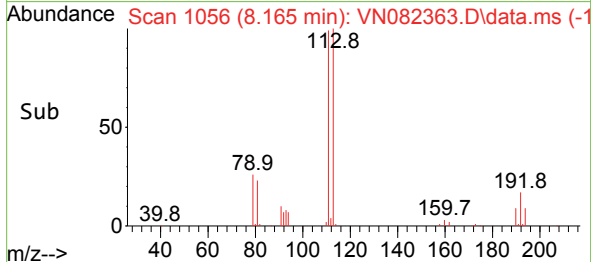
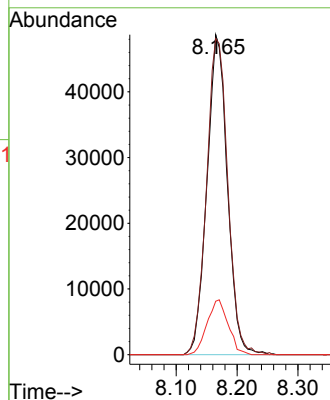
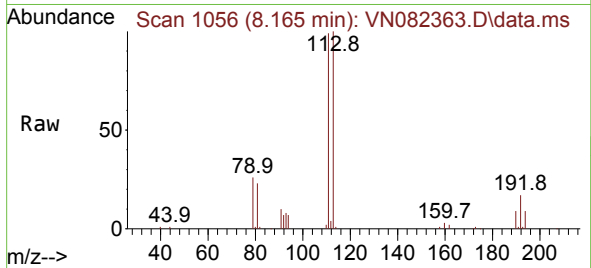




#35  
Dibromofluoromethane  
Concen: 52.658 ug/l  
RT: 8.165 min Scan# 1056  
Delta R.T. -0.000 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

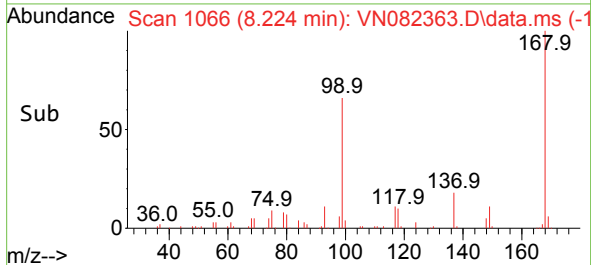
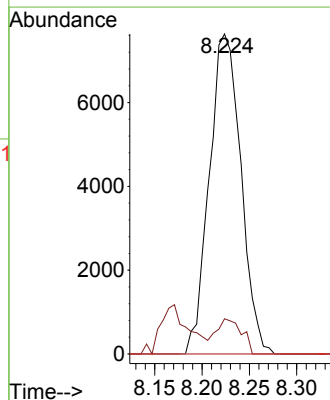
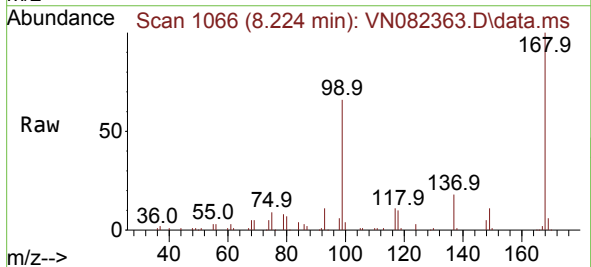
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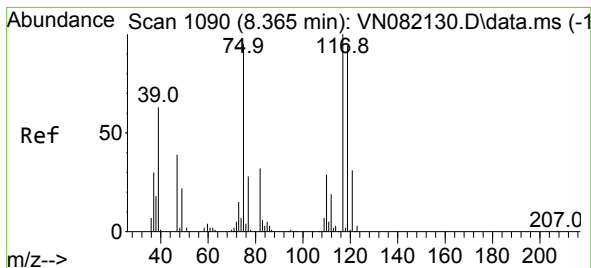
Tgt Ion:113 Resp: 113455  
Ion Ratio Lower Upper  
113 100  
111 103.3 83.4 125.2  
192 17.8 14.0 21.0



#36  
1,1-Dichloropropene  
Concen: 4.910 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.147 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

Tgt Ion: 75 Resp: 17742  
Ion Ratio Lower Upper  
75 100  
110 8.8 17.8 53.5#  
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.953 ug/l

RT: 8.224 min Scan# 1106

Delta R.T. -0.141 min

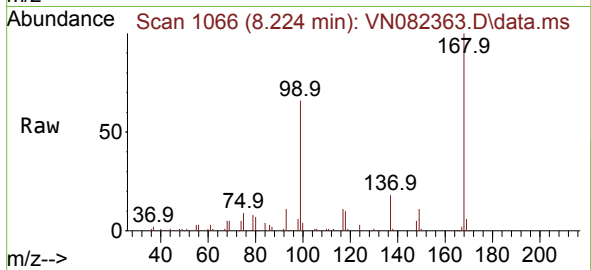
Lab File: VN082363.D

Acq: 29 May 2024 10:51

Instrument :

MSVOA\_N

ClientSampleId :



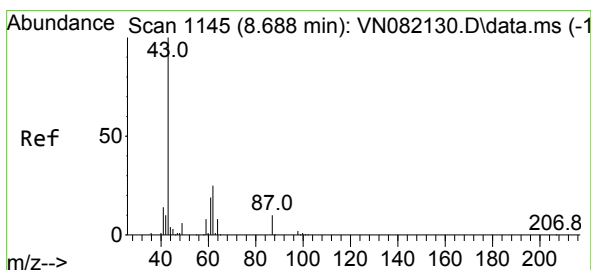
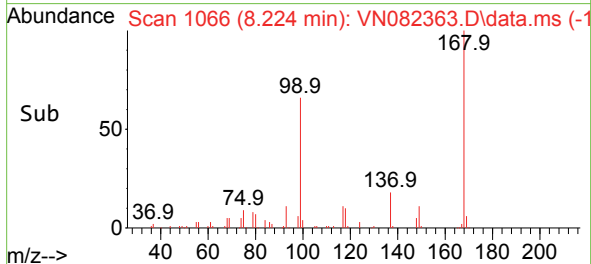
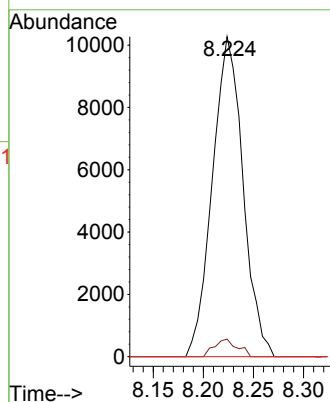
Tgt Ion:117 Resp: 21806

Ion Ratio Lower Upper

117 100

119 5.5 76.5 114.7#

121 0.0 23.9 35.9#



#43

Isopropyl Acetate

Concen: 0.215 ug/l

RT: 8.718 min Scan# 1150

Delta R.T. 0.029 min

Lab File: VN082363.D

Acq: 29 May 2024 10:51

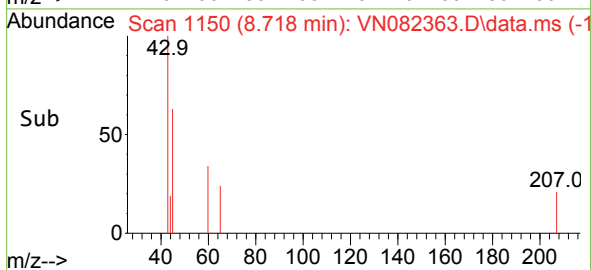
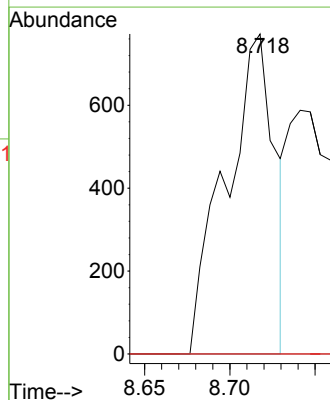
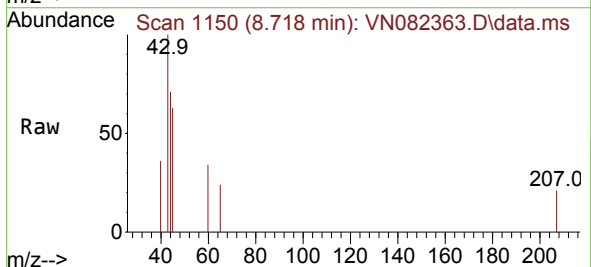
Tgt Ion: 43 Resp: 1541

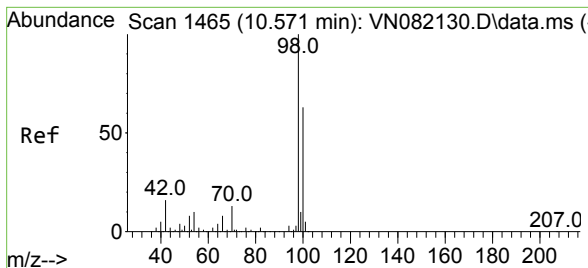
Ion Ratio Lower Upper

43 100

61 0.0 22.8 34.2#

87 0.0 12.0 18.0#

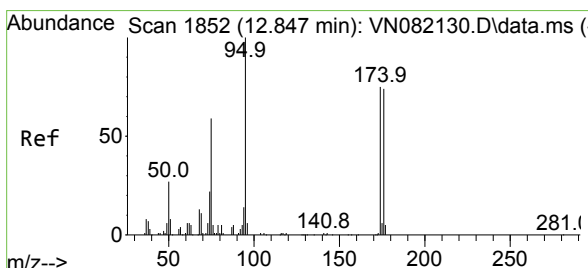
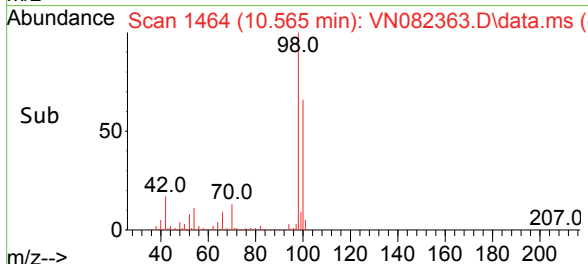
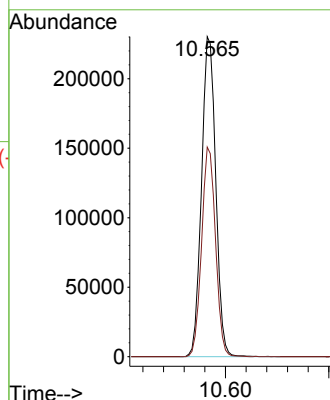
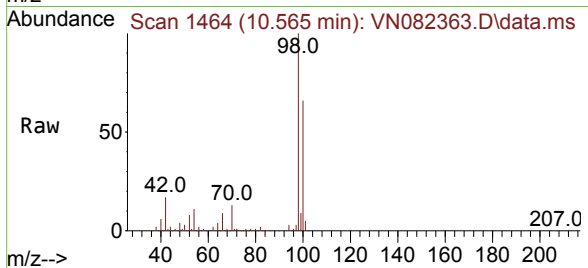




#50  
Toluene-d8  
Concen: 53.032 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.006 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

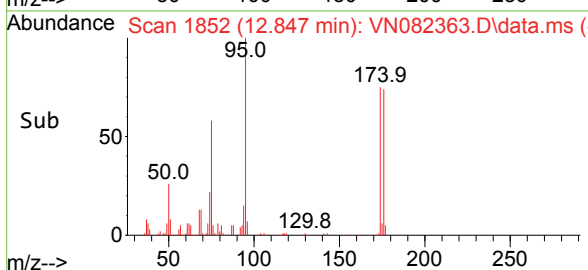
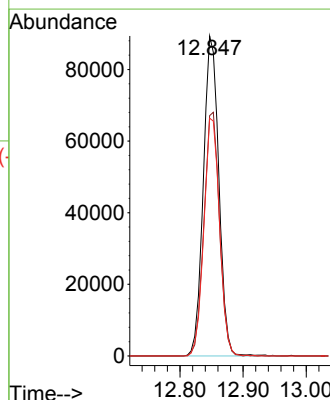
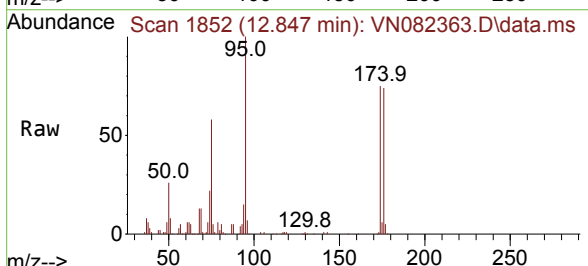
Instrument :  
MSVOA\_N  
ClientSampleId :

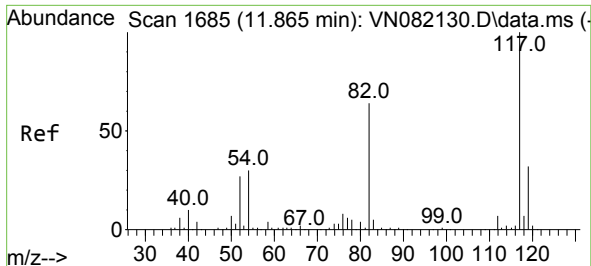
Tgt Ion: 98 Resp: 438065  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.8 77.6



#62  
4-Bromofluorobenzene  
Concen: 51.748 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. -0.000 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

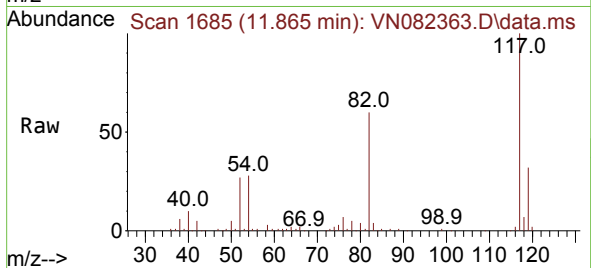
Tgt Ion: 95 Resp: 152571  
Ion Ratio Lower Upper  
95 100  
174 76.2 0.0 160.6  
176 75.1 0.0 152.8



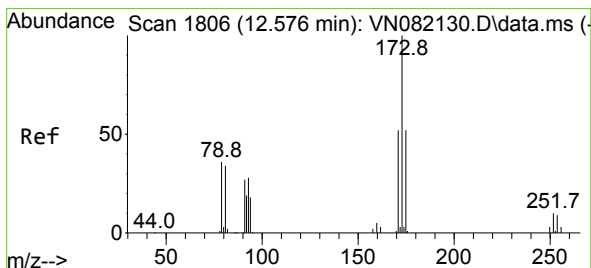
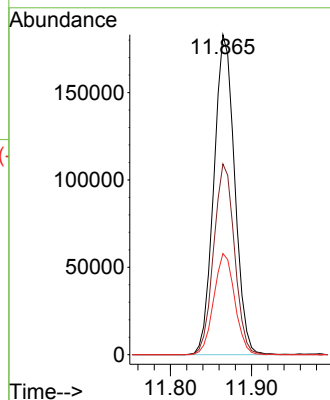
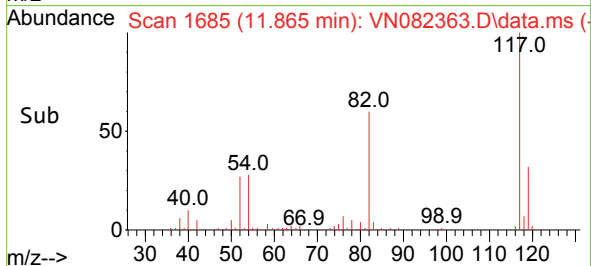


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

Instrument :  
MSVOA\_N  
ClientSampleId :

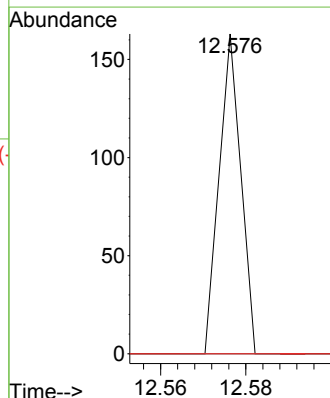
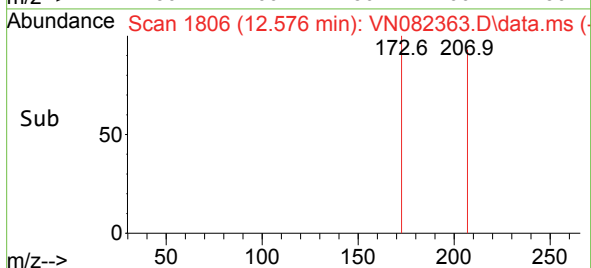
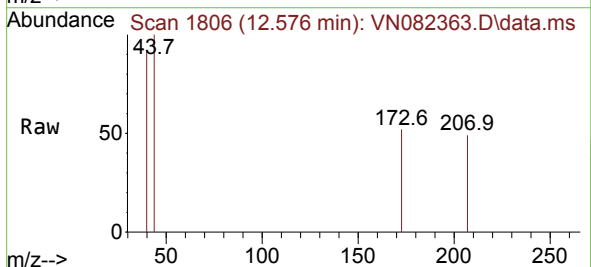


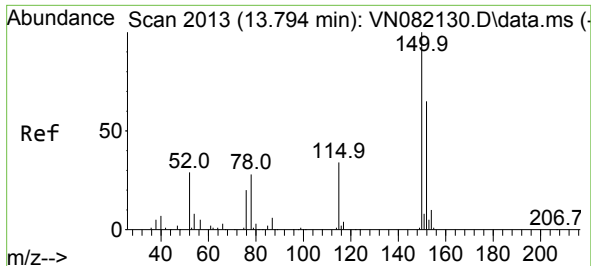
Tgt Ion:117 Resp: 325785  
Ion Ratio Lower Upper  
117 100  
82 59.6 44.6 66.8  
119 31.6 25.9 38.9



#71  
Bromoform  
Concen: 0.731 ug/l  
RT: 12.576 min Scan# 1806  
Delta R.T. 0.000 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

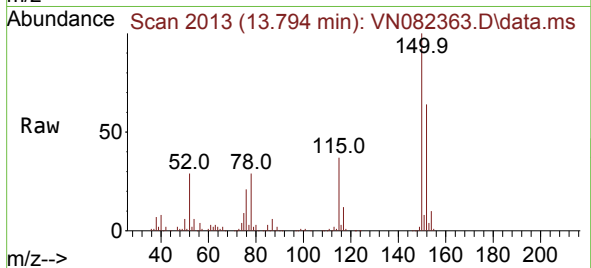
Tgt Ion:173 Resp: 58  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.6 74.0#  
254 0.0 0.0 0.0



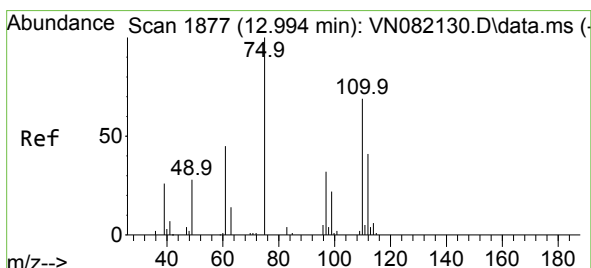
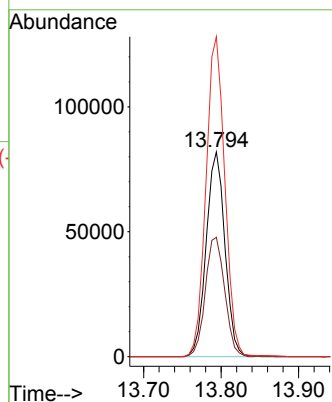
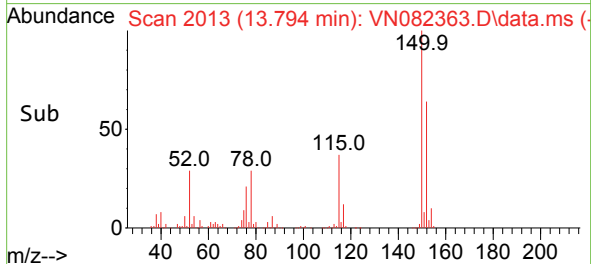


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VN082363.D  
 Acq: 29 May 2024 10:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :

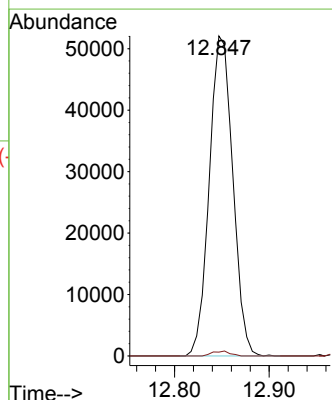
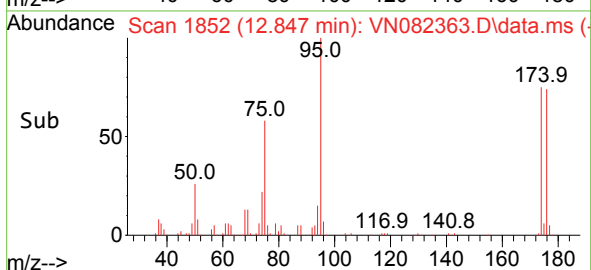
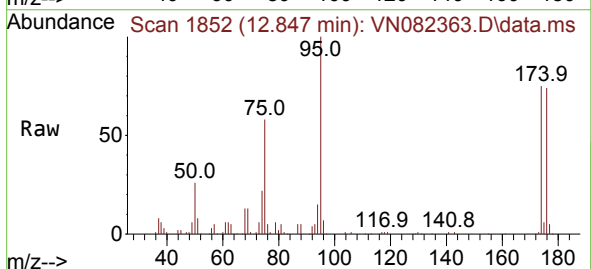


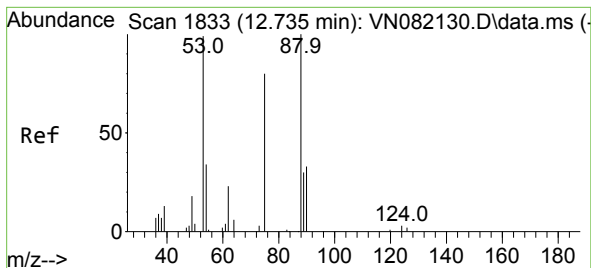
Tgt Ion:152 Resp: 138153  
 Ion Ratio Lower Upper  
 152 100  
 115 59.9 30.4 91.3  
 150 156.6 0.0 353.2



#76  
 1,2,3-Trichloropropane  
 Concen: 30.910 ug/l  
 RT: 12.847 min Scan# 1852  
 Delta R.T. -0.147 min  
 Lab File: VN082363.D  
 Acq: 29 May 2024 10:51

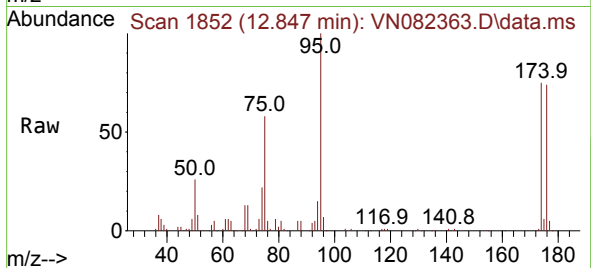
Tgt Ion: 75 Resp: 89880  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 90.5 271.3#



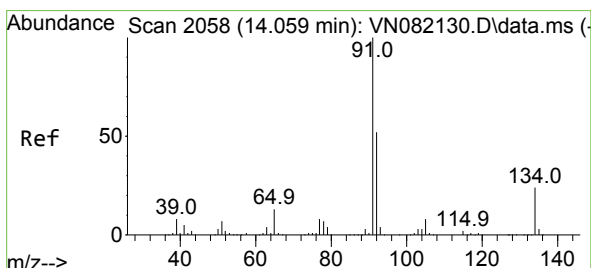
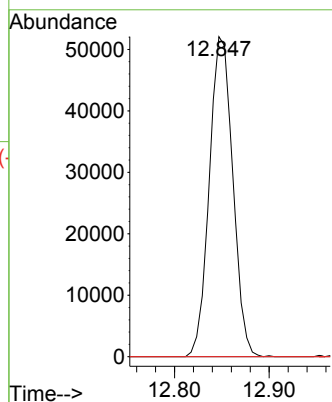
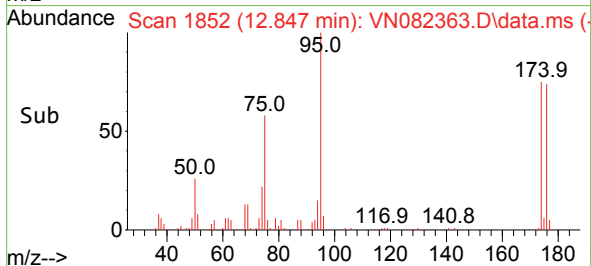


#81  
trans-1,4-Dichloro-2-butene  
Concen: 72.297 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

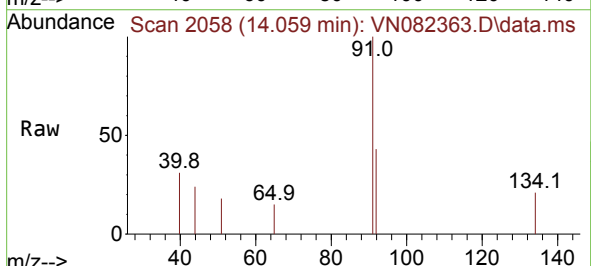
Instrument :  
MSVOA\_N  
ClientSampleId :



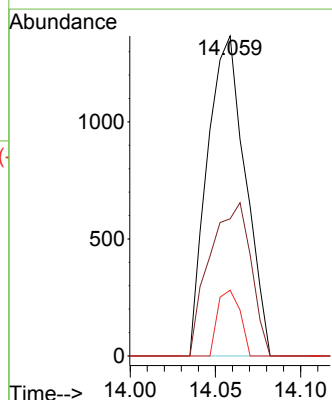
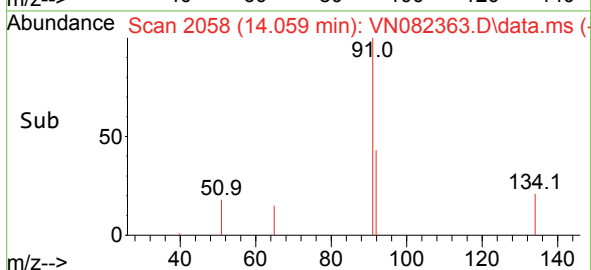
Tgt Ion: 75 Resp: 89880  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.9 109.3#  
89 0.0 39.1 58.7#

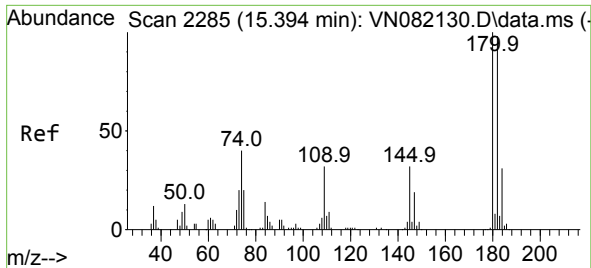


#89  
n-Butylbenzene  
Concen: 0.269 ug/l  
RT: 14.059 min Scan# 2058  
Delta R.T. -0.000 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51



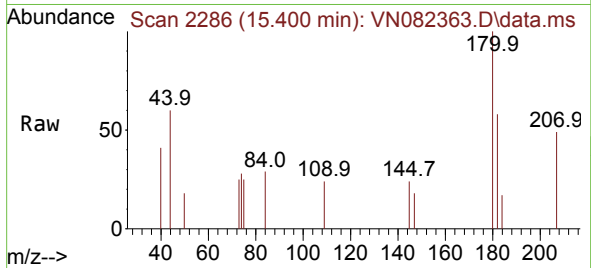
Tgt Ion: 91 Resp: 2113  
Ion Ratio Lower Upper  
91 100  
92 52.1 26.2 78.5  
134 12.2 13.2 39.5#



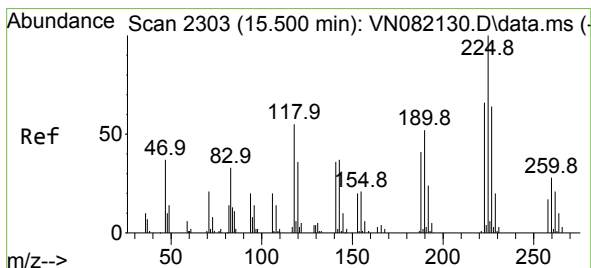
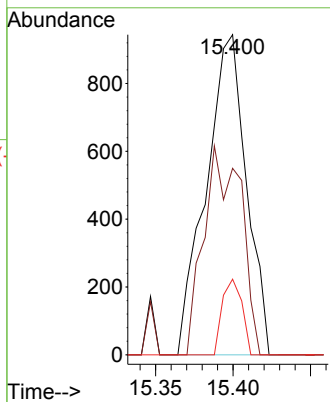
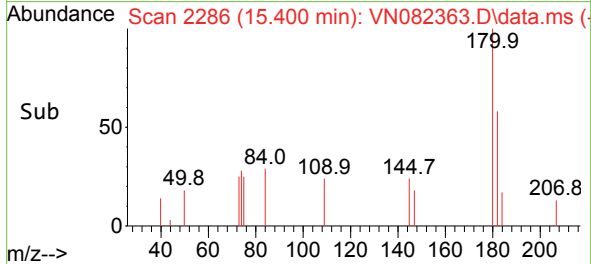


#93  
1,2,4-Trichlorobenzene  
Concen: 0.679 ug/l  
RT: 15.400 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

Instrument :  
MSVOA\_N  
ClientSampleId :

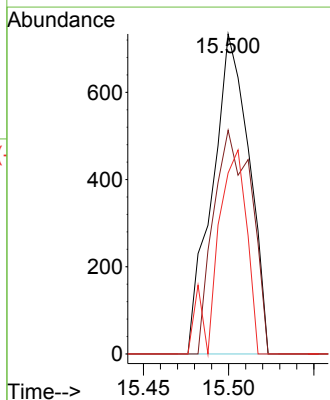
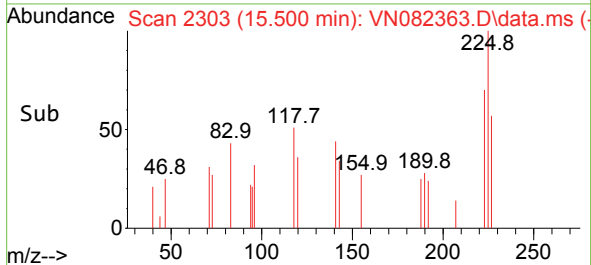
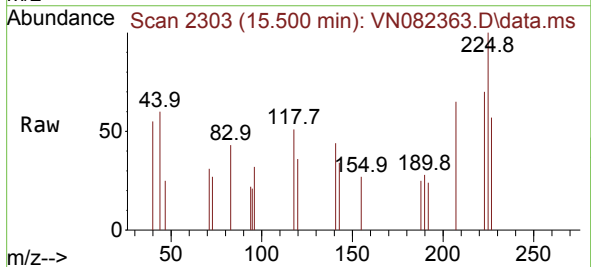


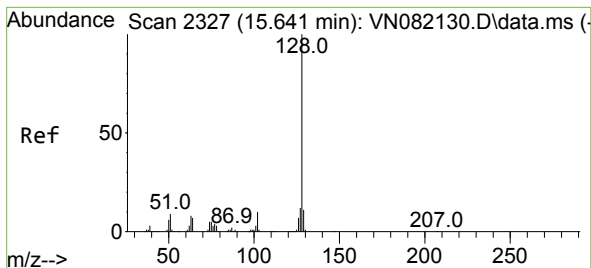
Tgt Ion:180 Resp: 1706  
Ion Ratio Lower Upper  
180 100  
182 60.3 46.7 140.0  
145 11.5 16.2 48.6#



#94  
Hexachlorobutadiene  
Concen: 1.001 ug/l  
RT: 15.500 min Scan# 2303  
Delta R.T. -0.000 min  
Lab File: VN082363.D  
Acq: 29 May 2024 10:51

Tgt Ion:225 Resp: 1104  
Ion Ratio Lower Upper  
225 100  
223 72.0 31.1 93.2  
227 51.4 30.6 91.6





#95

Naphthalene

Concen: 0.699 ug/l

RT: 15.641 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN082363.D

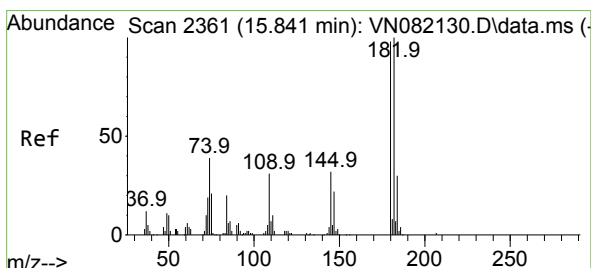
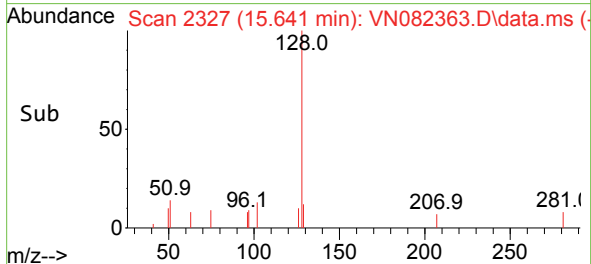
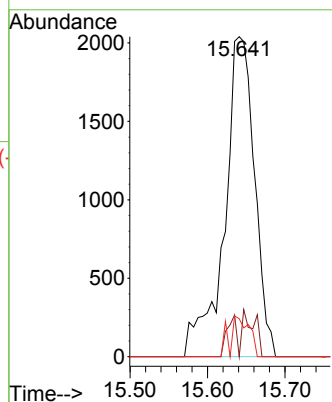
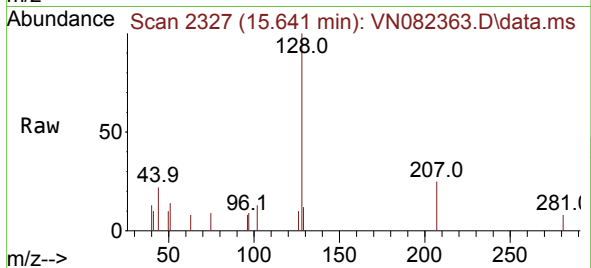
Acq: 29 May 2024 10:51

Instrument :

MSVOA\_N

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 5507       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 6.0   | 10.1 15.1# |
| 129         | 0.0   | 8.9 13.3#  |



#96

1,2,3-Trichlorobenzene

Concen: 0.737 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. -0.006 min

Lab File: VN082363.D

Acq: 29 May 2024 10:51

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1856       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 72.8  | 46.0 137.8 |
| 145         | 28.8  | 17.1 51.3  |

