

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN061623\  
 Data File : VN078250.D  
 Acq On : 16 Jun 2023 10:54  
 Operator : JC\MD  
 Sample : VN0616WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0616WBL01

Quant Time: Jun 17 02:19:23 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060623W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 07 05:05:00 2023  
 Response via : Initial Calibration

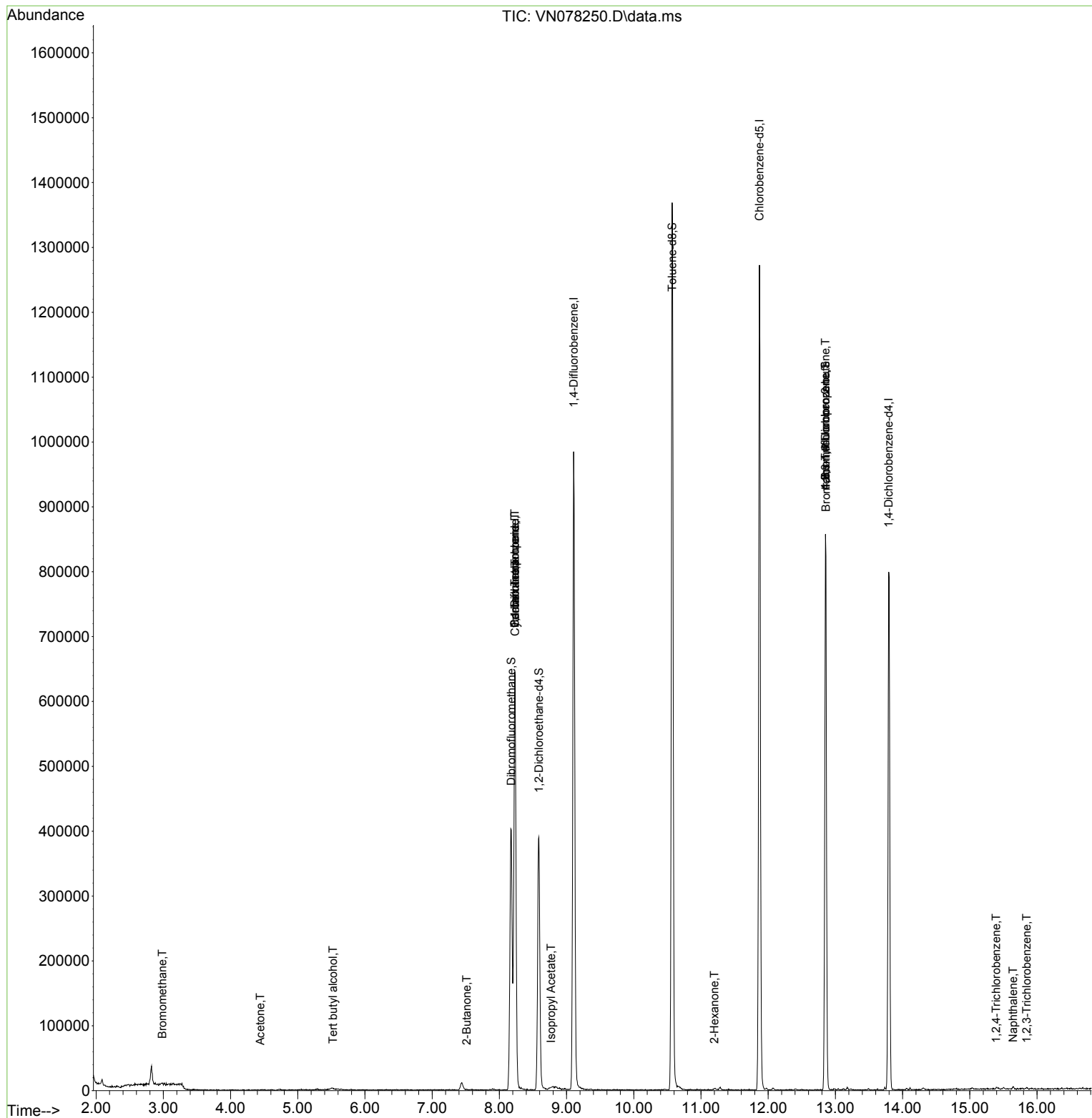
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 451430              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 848921              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 737792              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 216316              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.588          | 65   | 328109              | 54.513    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 109.020% |           |        |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 294364              | 54.841    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 109.680% |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 979532              | 47.337    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 94.680%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 298379              | 46.384    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 92.760%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 2.371          | 50   | 1000                | Below Cal | #      | 42       |
| 5) Bromomethane               | 2.983          | 94   | 2044                | 0.405     | ug/l # | 39       |
| 11) Tert butyl alcohol        | 5.524          | 59   | 1167                | 1.404     | ug/l # | 72       |
| 16) Acetone                   | 4.442          | 43   | 640                 | 0.369     | ug/l # | 40       |
| 25) 2-Butanone                | 7.512          | 43   | 658                 | 0.247     | ug/l # | 37       |
| 31) Cyclohexane               | 8.235          | 56   | 10935               | 1.416     | ug/l # | 45       |
| 36) 1,1-Dichloropropene       | 8.230          | 75   | 37877               | 4.920     | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 49226               | 6.055     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.771          | 43   | 4217                | 0.367     | ug/l # | 49       |
| 59) 2-Hexanone                | 11.200         | 43   | 1534                | 0.364     | ug/l # | 52       |
| 71) Bromoform                 | 12.859         | 173  | 2612                | 0.696     | ug/l # | 1        |
| 75) 1,1,2,2-Tetrachloroethane | 12.935         | 83   | 63                  | Below Cal | #      | 2        |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 166635              | 32.585    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 166635              | 100.113   | ug/l # | 15       |
| 93) 1,2,4-Trichlorobenzene    | 15.394         | 180  | 972                 | 0.348     | ug/l   | 70       |
| 94) Hexachlorobutadiene       | 15.511         | 225  | 458                 | Below Cal |        | 64       |
| 95) Naphthalene               | 15.647         | 128  | 3449                | 0.367     | ug/l # | 80       |
| 96) 1,2,3-Trichlorobenzene    | 15.847         | 180  | 963                 | 0.308     | ug/l   | 89       |
| -----                         |                |      |                     |           |        |          |

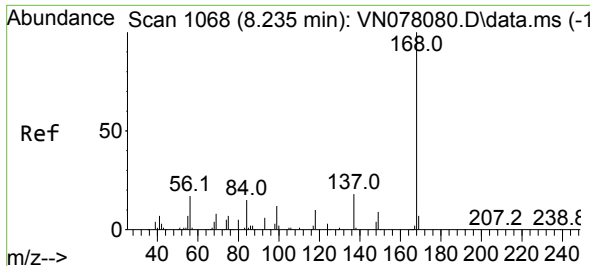
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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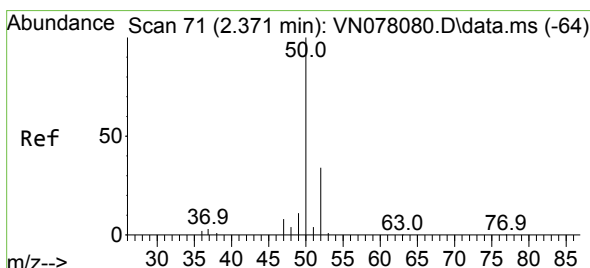
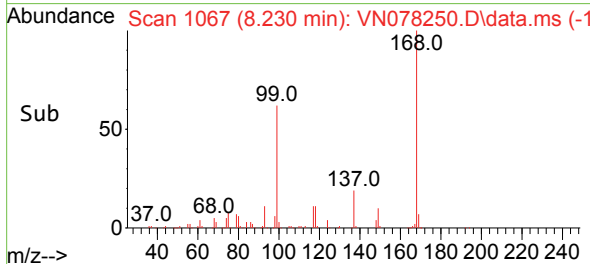
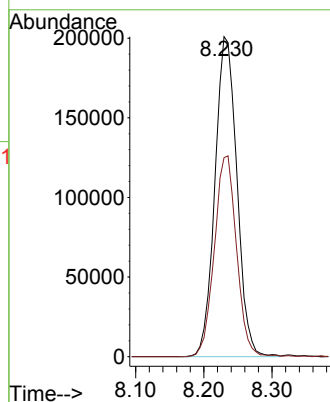
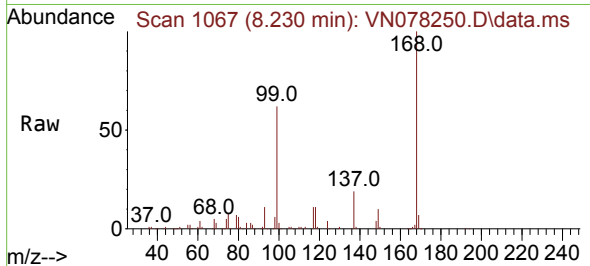




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

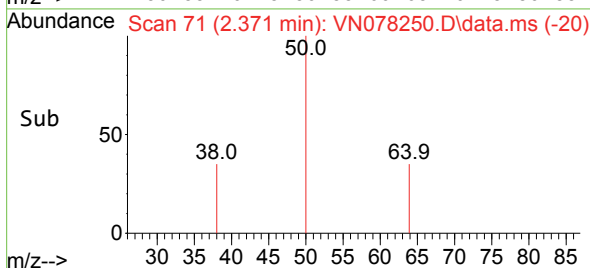
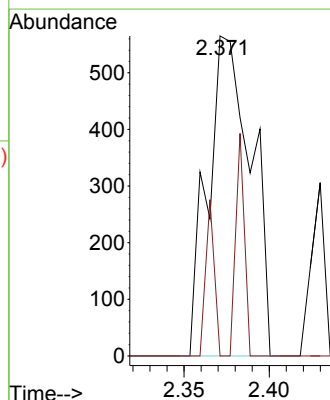
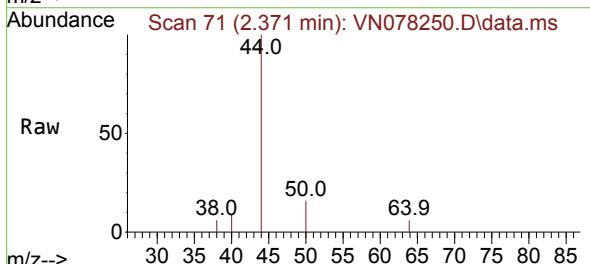
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0616WBL01

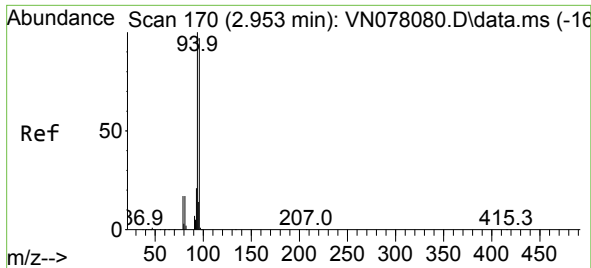
Tgt Ion:168 Resp: 451430  
Ion Ratio Lower Upper  
168 100  
99 62.2 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.371 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

Tgt Ion: 50 Resp: 1000  
Ion Ratio Lower Upper  
50 100  
52 0.0 26.5 39.7#

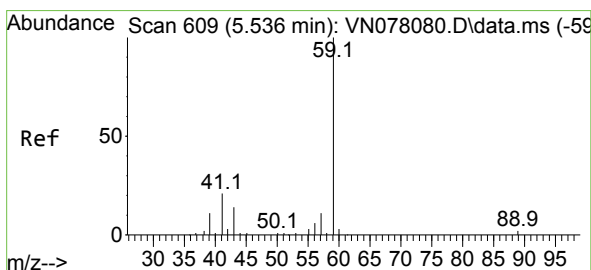
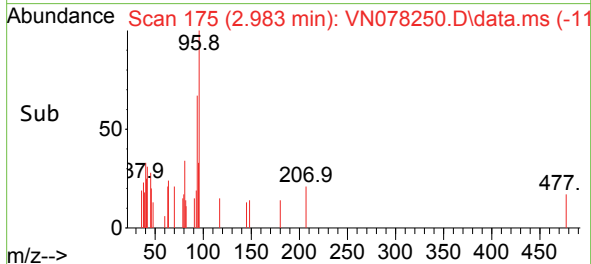
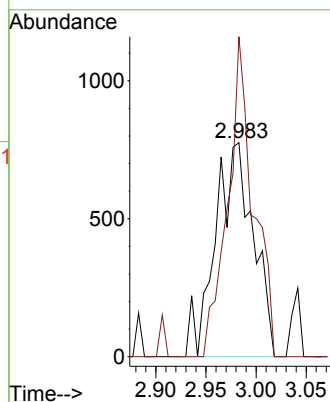
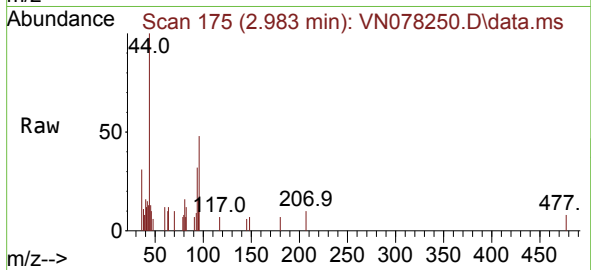




#5  
Bromomethane  
Concen: 0.405 ug/l  
RT: 2.983 min Scan# 11  
Delta R.T. 0.029 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

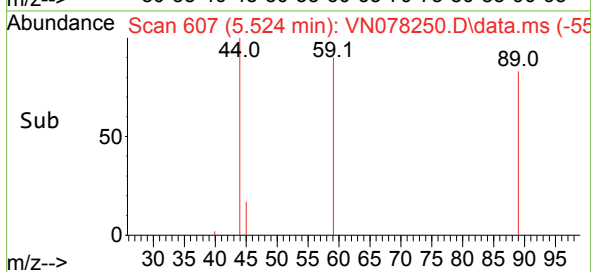
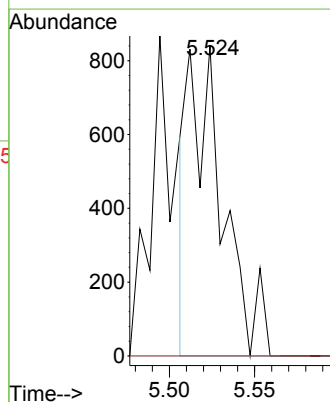
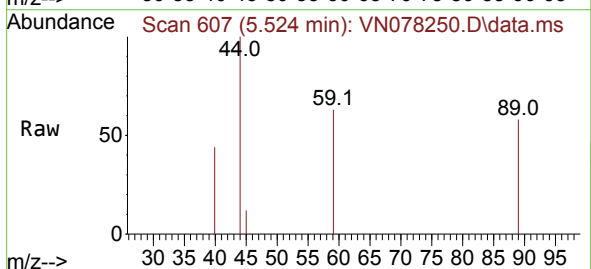
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0616WBL01

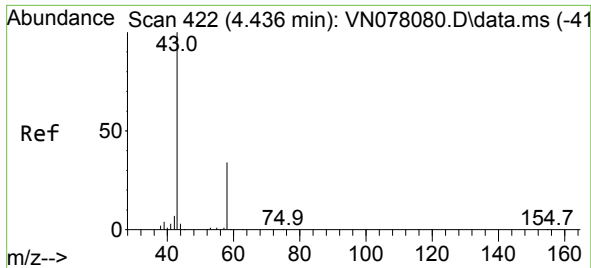
Tgt Ion: 94 Resp: 2044  
Ion Ratio Lower Upper  
94 100  
96 149.5 73.1 109.7#



#11  
Tert butyl alcohol  
Concen: 1.404 ug/l  
RT: 5.524 min Scan# 607  
Delta R.T. -0.012 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

Tgt Ion: 59 Resp: 1167  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

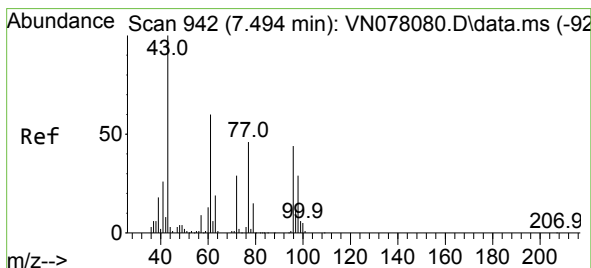
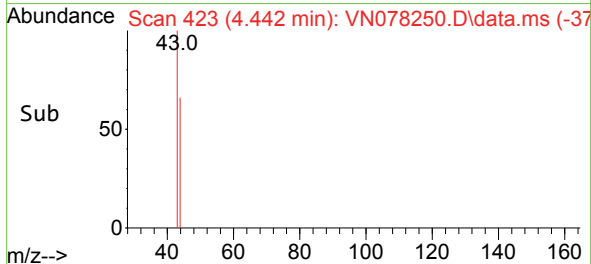
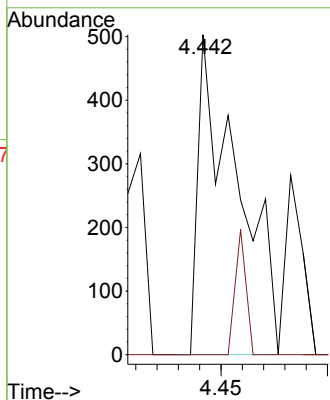
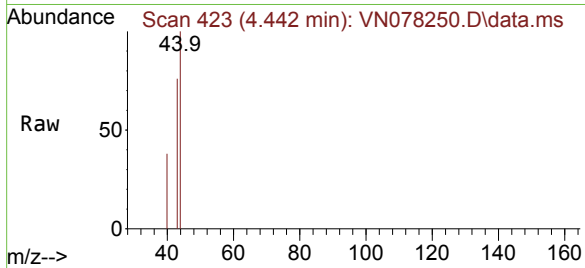




#16  
Acetone  
Concen: 0.369 ug/l  
RT: 4.442 min Scan# 431  
Delta R.T. 0.006 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

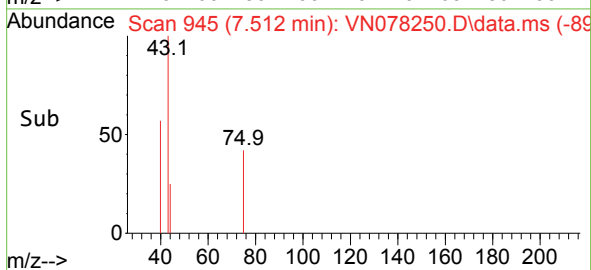
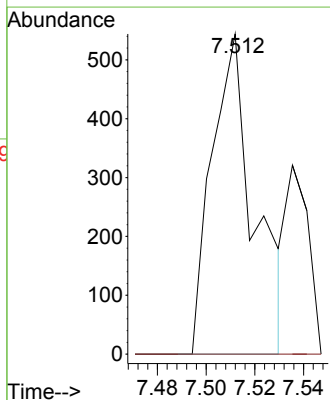
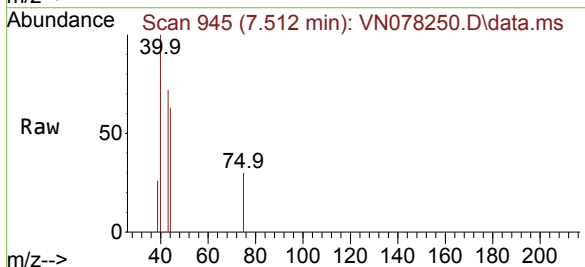
Instrument :  
MSVOA\_N  
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VN0616WBL01

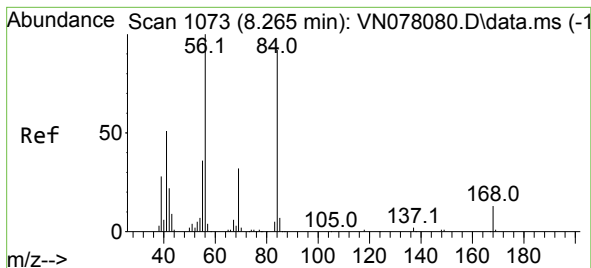
Tgt Ion: 43 Resp: 640  
Ion Ratio Lower Upper  
43 100  
58 0.0 28.0 42.0#



#25  
2-Butanone  
Concen: 0.247 ug/l  
RT: 7.512 min Scan# 945  
Delta R.T. 0.018 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

Tgt Ion: 43 Resp: 658  
Ion Ratio Lower Upper  
43 100  
72 0.0 30.2 45.2#





#31

Cyclohexane

Concen: 1.416 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.029 min

Lab File: VN078250.D

Acq: 16 Jun 2023 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VN0616WBL01

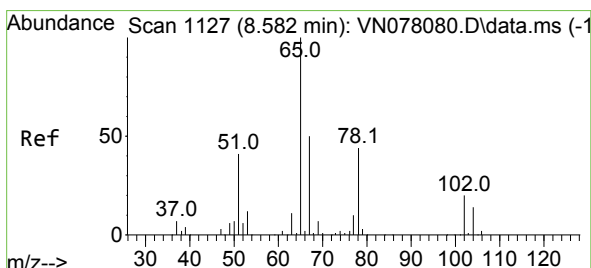
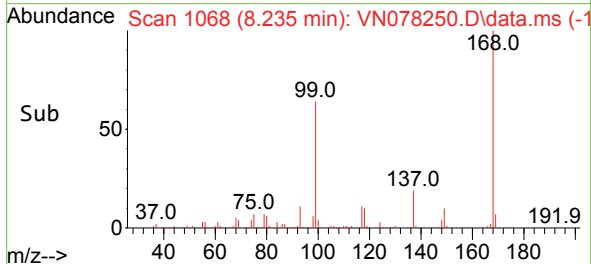
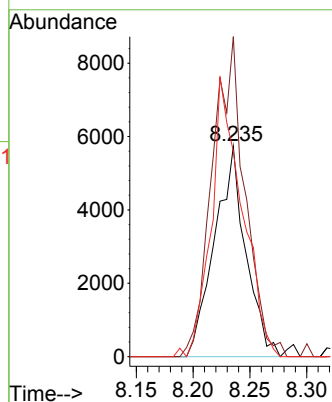
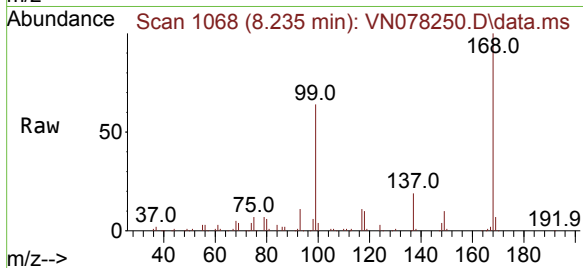
Tgt Ion: 56 Resp: 10935

Ion Ratio Lower Upper

56 100

69 152.2 26.8 40.2#

84 97.9 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 54.513 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078250.D

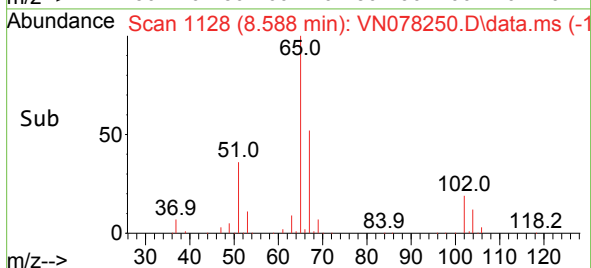
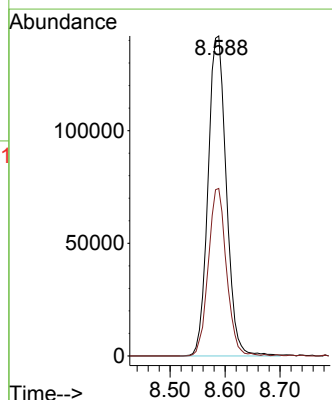
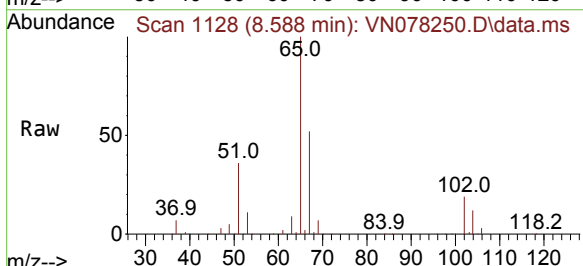
Acq: 16 Jun 2023 10:54

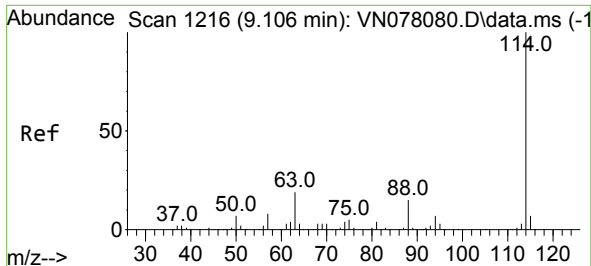
Tgt Ion: 65 Resp: 328109

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.6

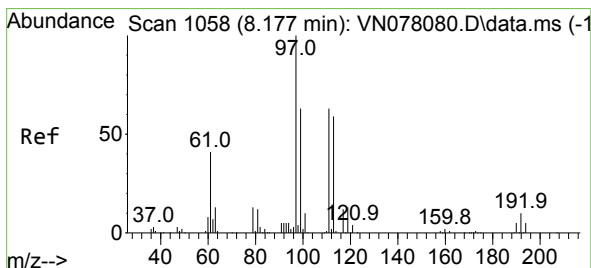
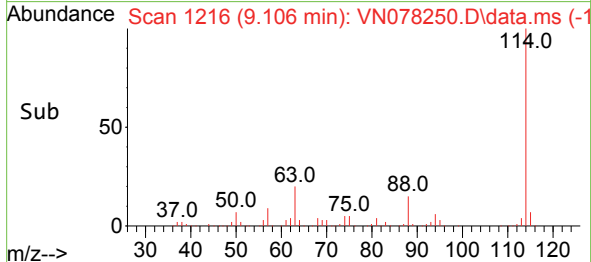
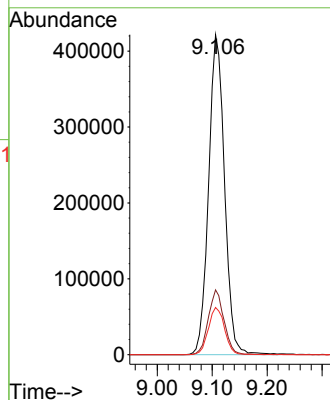
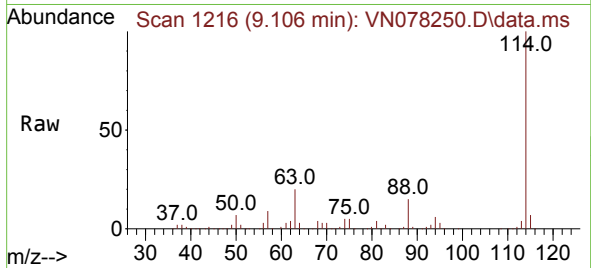




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.106 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

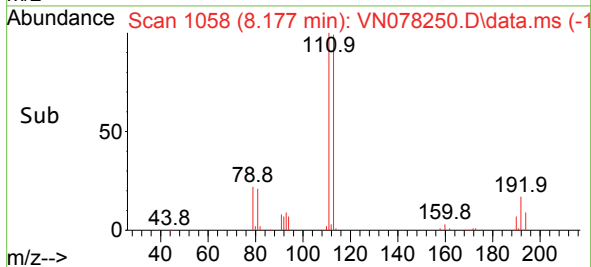
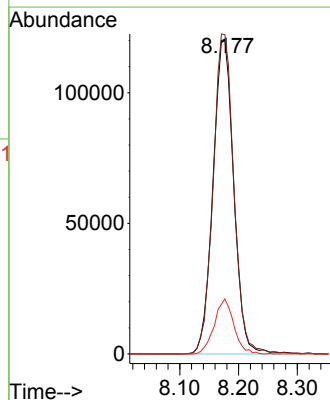
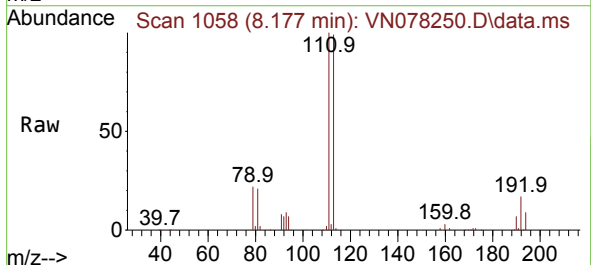
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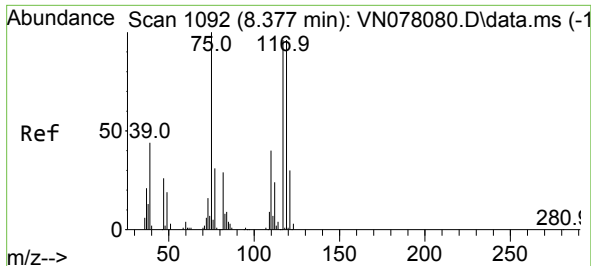
Tgt Ion:114 Resp: 848921  
Ion Ratio Lower Upper  
114 100  
63 20.3 0.0 36.4  
88 14.8 0.0 30.6



#35  
Dibromofluoromethane  
Concen: 54.841 ug/l  
RT: 8.177 min Scan# 1058  
Delta R.T. -0.000 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

Tgt Ion:113 Resp: 294364  
Ion Ratio Lower Upper  
113 100  
111 102.1 82.6 123.8  
192 16.5 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.920 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN078250.D

Acq: 16 Jun 2023 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VN0616WBL01

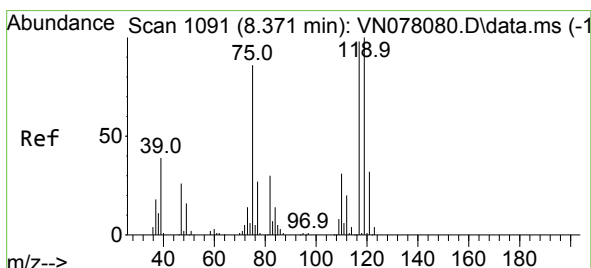
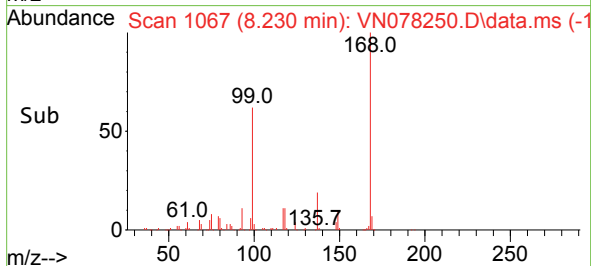
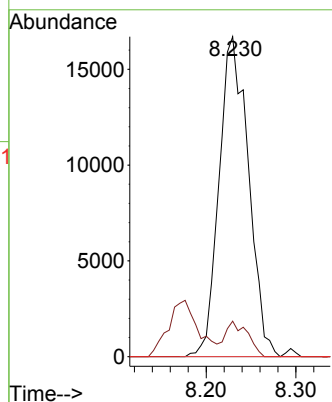
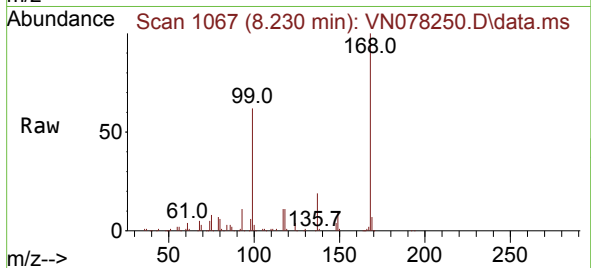
Tgt Ion: 75 Resp: 37877

Ion Ratio Lower Upper

75 100

110 8.5 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.055 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078250.D

Acq: 16 Jun 2023 10:54

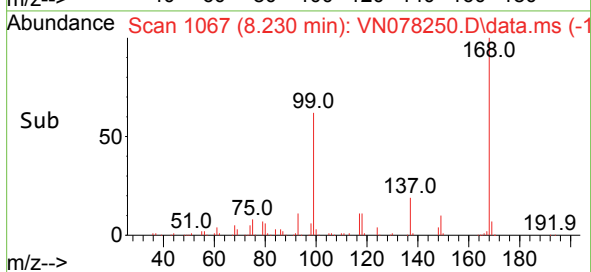
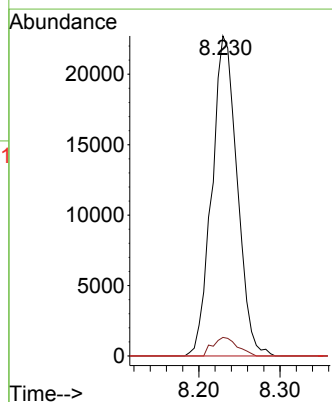
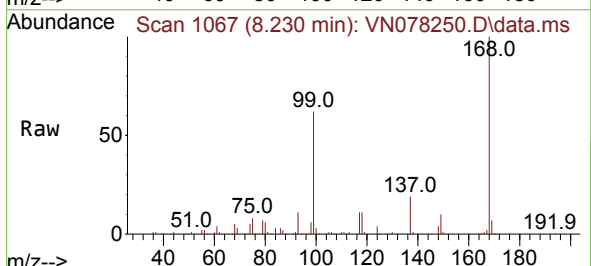
Tgt Ion: 117 Resp: 49226

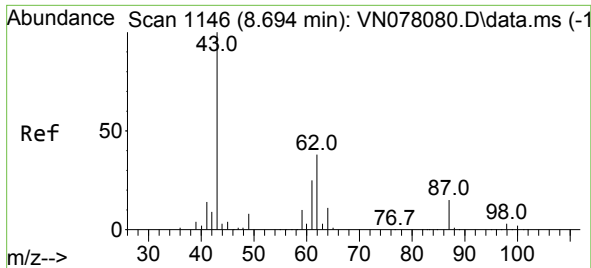
Ion Ratio Lower Upper

117 100

119 5.8 77.3 115.9#

121 0.0 23.3 34.9#

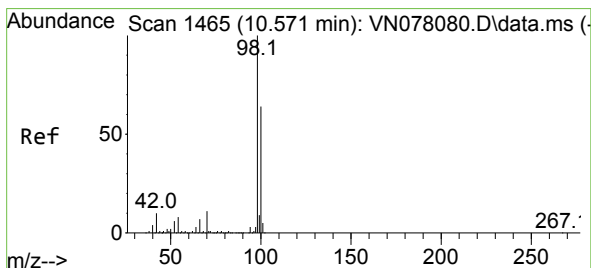
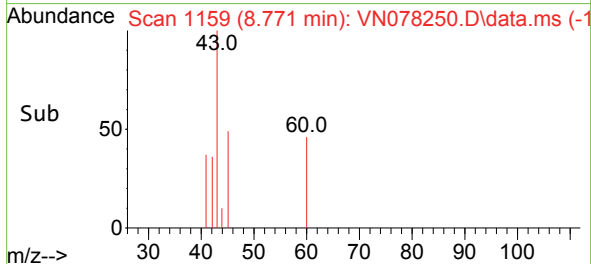
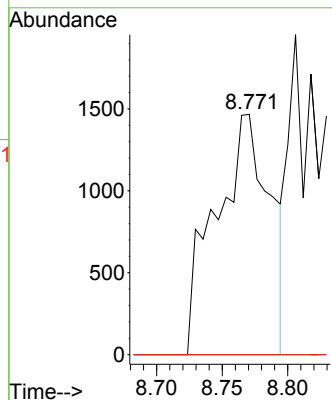
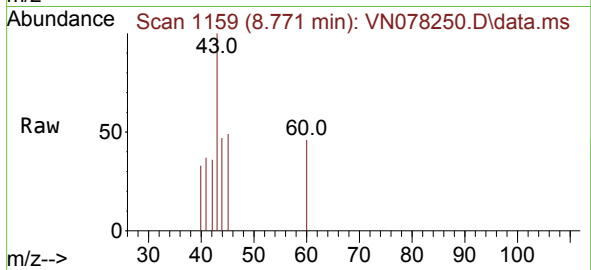




#43  
Isopropyl Acetate  
Concen: 0.367 ug/l  
RT: 8.771 min Scan# 1146  
Delta R.T. 0.076 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

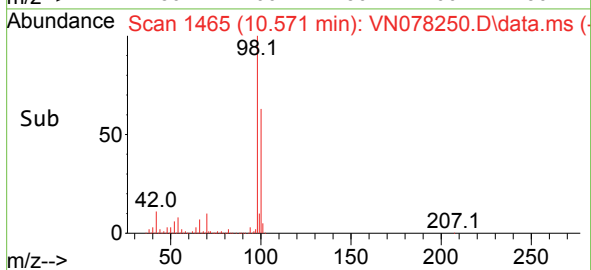
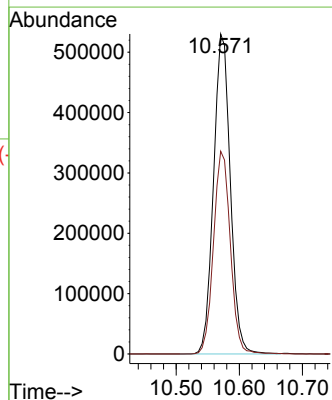
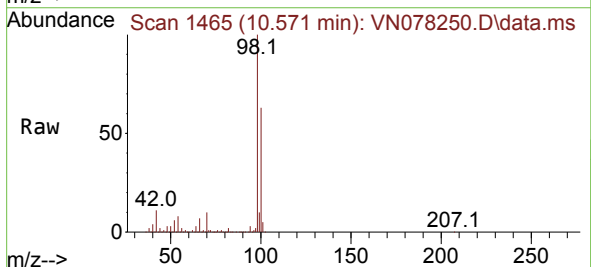
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0616WBL01

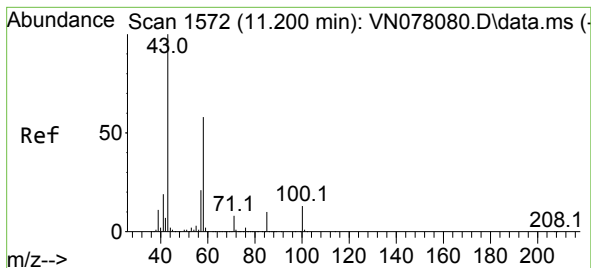
Tgt Ion: 43 Resp: 4217  
Ion Ratio Lower Upper  
43 100  
61 0.0 24.7 37.1#  
87 0.0 14.6 21.8#



#50  
Toluene-d8  
Concen: 47.337 ug/l  
RT: 10.571 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

Tgt Ion: 98 Resp: 979532  
Ion Ratio Lower Upper  
98 100  
100 63.5 52.0 78.0

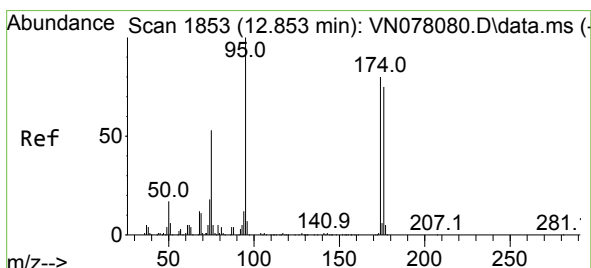
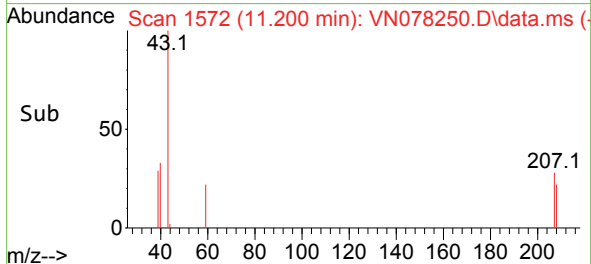
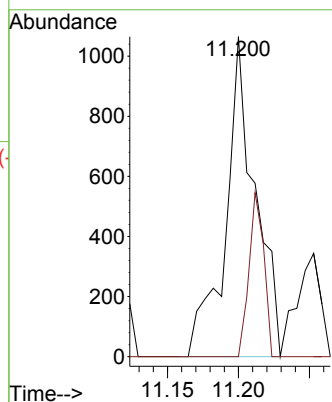
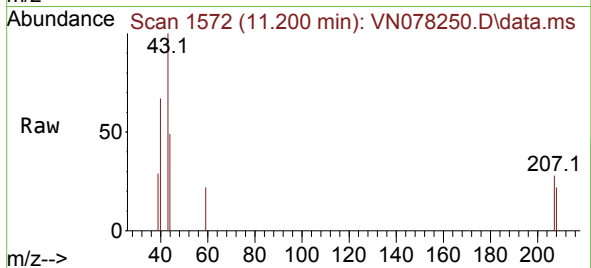




#59  
2-Hexanone  
Concen: 0.364 ug/l  
RT: 11.200 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

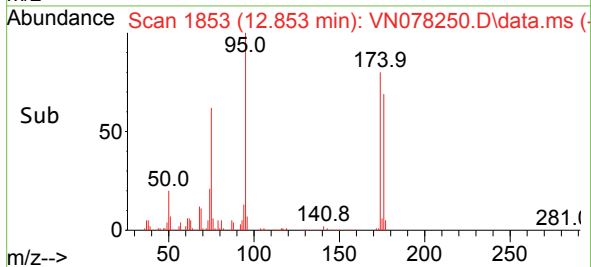
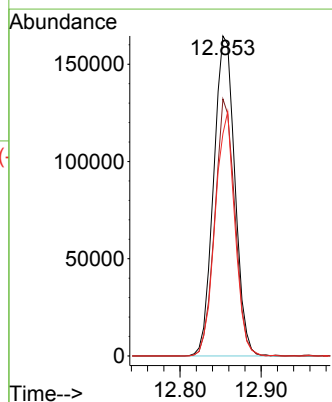
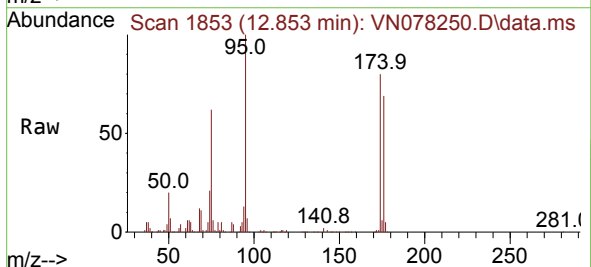
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0616WBL01

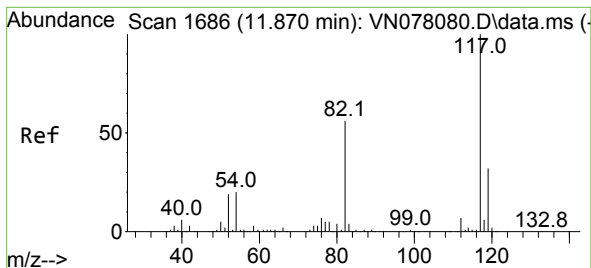
Tgt Ion: 43 Resp: 1534  
Ion Ratio Lower Upper  
43 100  
58 25.7 31.7 95.1#



#62  
4-Bromofluorobenzene  
Concen: 46.384 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

Tgt Ion: 95 Resp: 298379  
Ion Ratio Lower Upper  
95 100  
174 76.3 0.0 143.8  
176 71.7 0.0 135.8

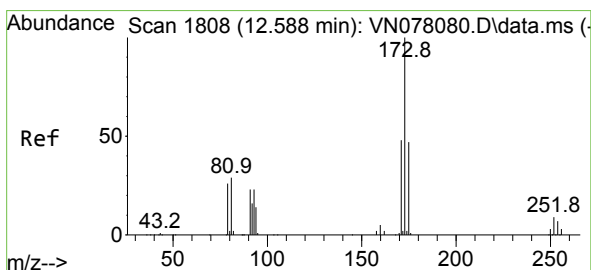
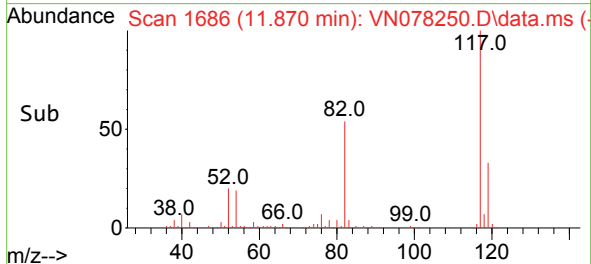
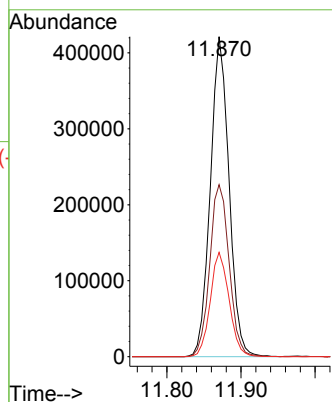
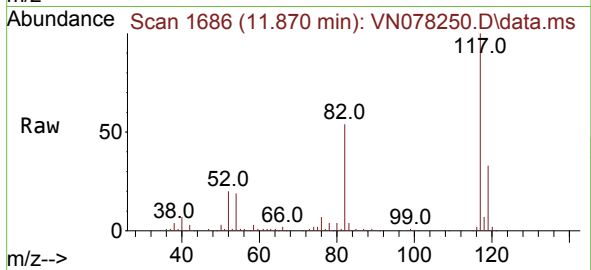




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1170  
Delta R.T. -0.000 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

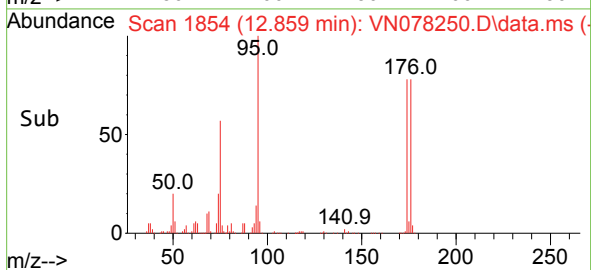
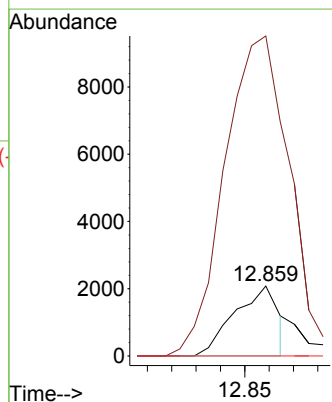
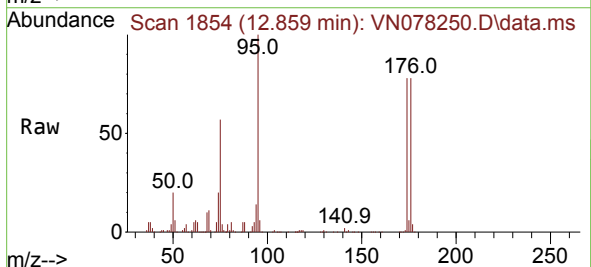
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0616WBL01

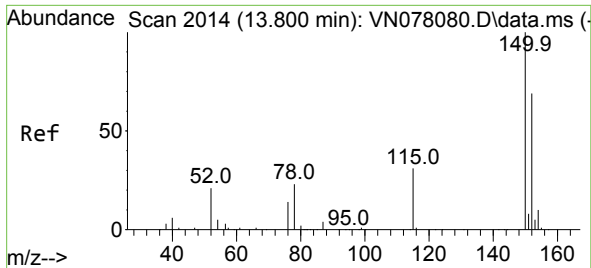
Tgt Ion:117 Resp: 737792  
Ion Ratio Lower Upper  
117 100  
82 53.8 44.0 66.0  
119 32.6 25.6 38.4



#71  
Bromoform  
Concen: 0.696 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.271 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

Tgt Ion:173 Resp: 2612  
Ion Ratio Lower Upper  
173 100  
175 570.6 24.3 73.0#  
254 0.0 0.0 0.0

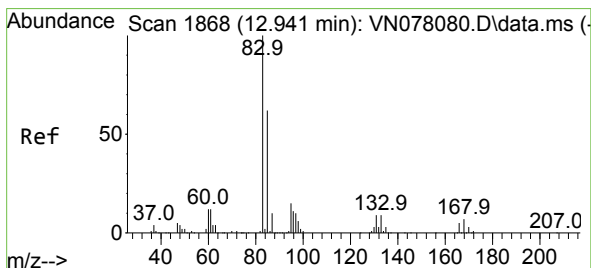
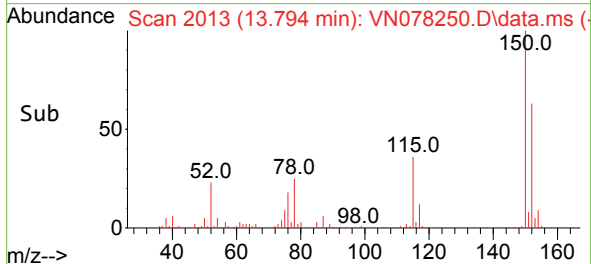
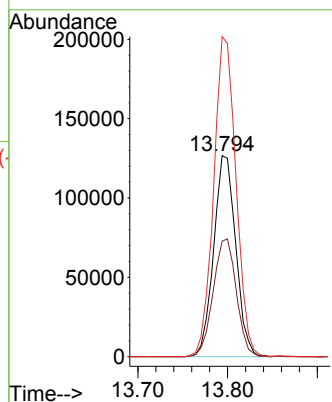
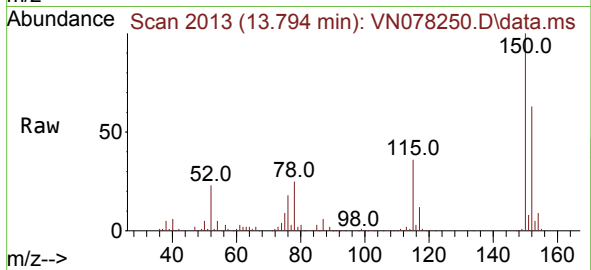




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.794 min Scan# 20  
 Delta R.T. -0.006 min  
 Lab File: VN078250.D  
 Acq: 16 Jun 2023 10:54

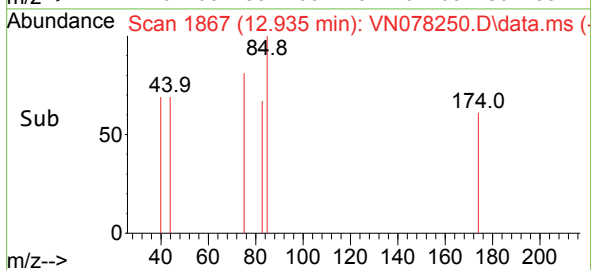
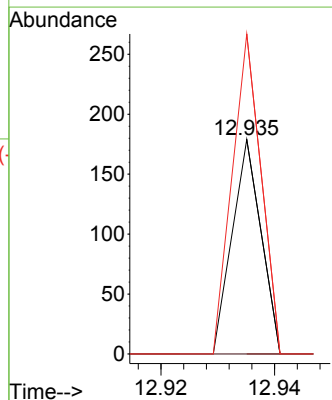
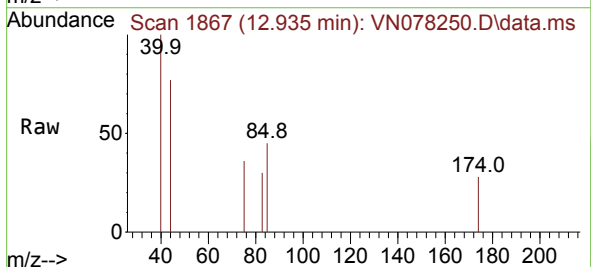
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0616WBL01

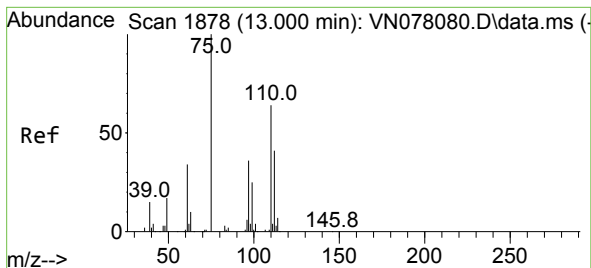
Tgt Ion:152 Resp: 216316  
 Ion Ratio Lower Upper  
 152 100  
 115 61.4 32.3 96.8  
 150 160.8 0.0 355.8



#75  
 1,1,2,2-Tetrachloroethane  
 Concen: Below Cal  
 RT: 12.935 min Scan# 1867  
 Delta R.T. -0.006 min  
 Lab File: VN078250.D  
 Acq: 16 Jun 2023 10:54

Tgt Ion: 83 Resp: 63  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 5.0 15.0#  
 85 149.2 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 32.585 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078250.D

Acq: 16 Jun 2023 10:54

Instrument :

MSVOA\_N

ClientSampleId :

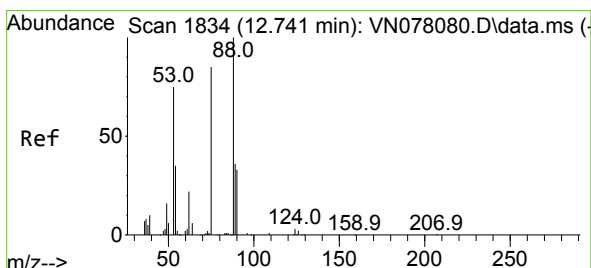
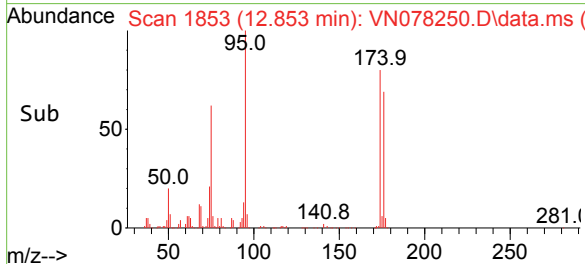
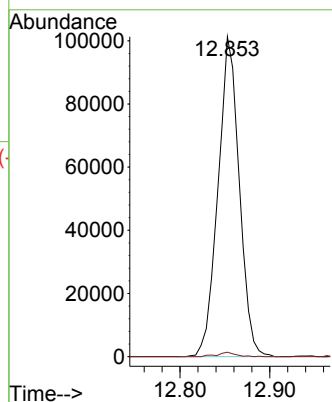
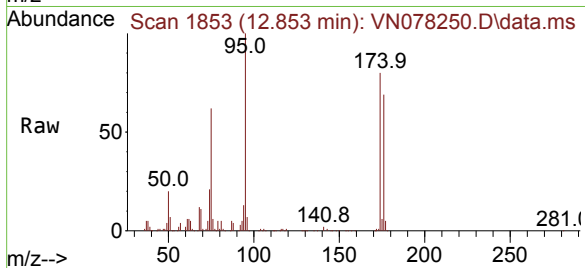
VN0616WBL01

Tgt Ion: 75 Resp: 166635

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 100.113 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN078250.D

Acq: 16 Jun 2023 10:54

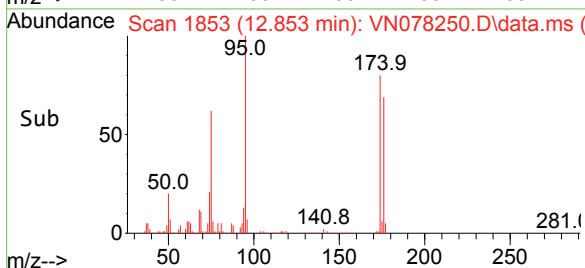
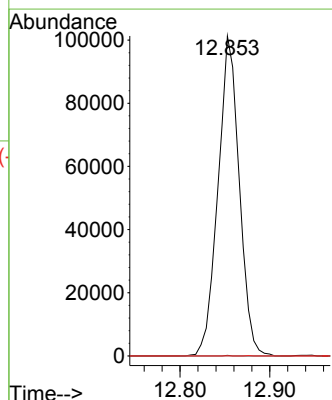
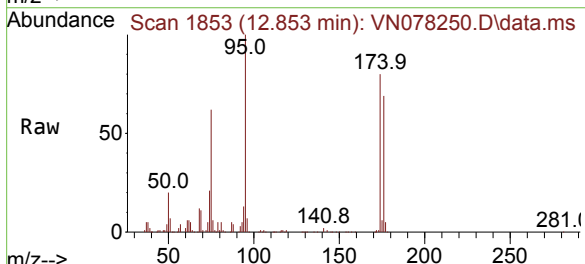
Tgt Ion: 75 Resp: 166635

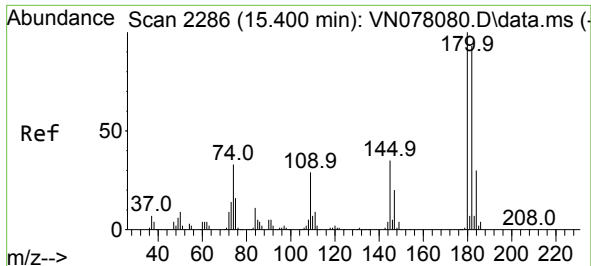
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#

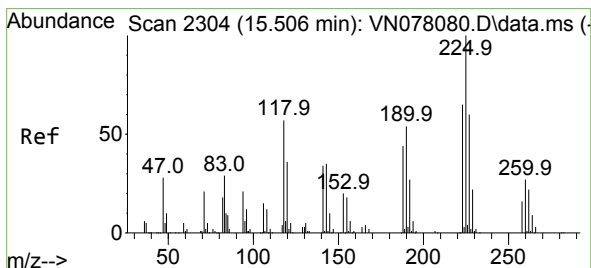
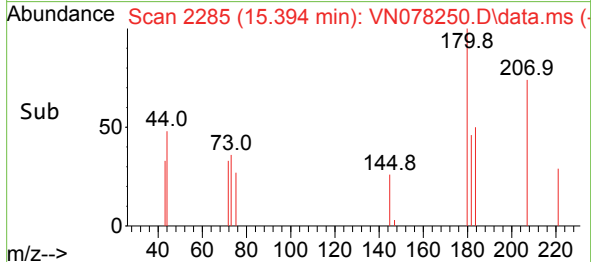
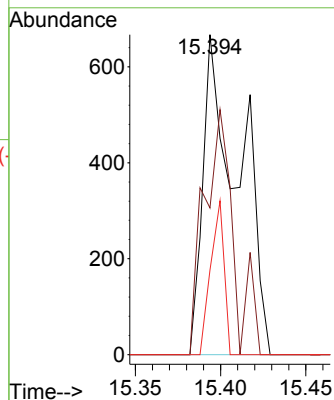
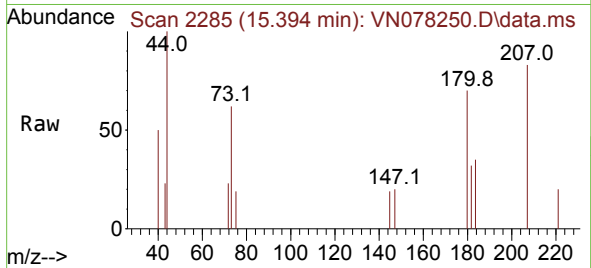




#93  
1,2,4-Trichlorobenzene  
Concen: 0.348 ug/l  
RT: 15.394 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

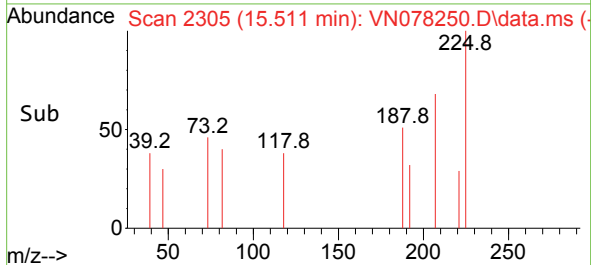
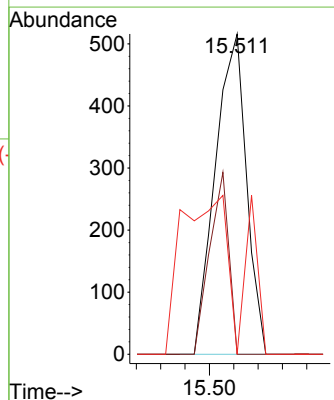
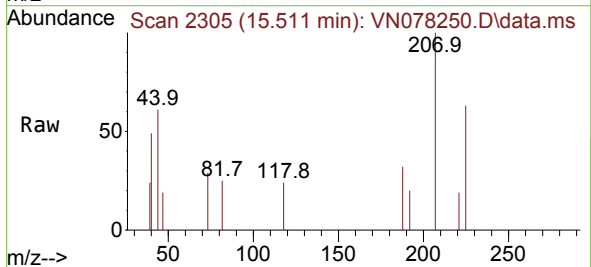
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0616WBL01

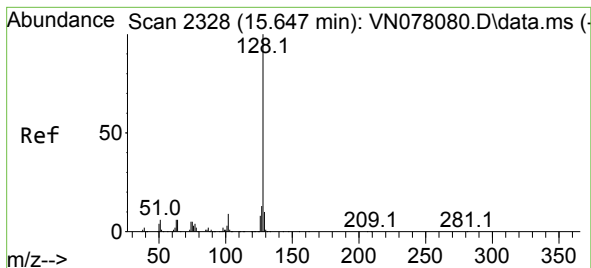
Tgt Ion:180 Resp: 972  
Ion Ratio Lower Upper  
180 100  
182 62.7 46.1 138.2  
145 18.0 16.6 49.8



#94  
Hexachlorobutadiene  
Concen: Below Cal  
RT: 15.511 min Scan# 2305  
Delta R.T. 0.005 min  
Lab File: VN078250.D  
Acq: 16 Jun 2023 10:54

Tgt Ion:225 Resp: 458  
Ion Ratio Lower Upper  
225 100  
223 34.9 31.3 93.8  
227 91.7 31.9 95.9





#95

Naphthalene

Concen: 0.367 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. -0.000 min

Lab File: VN078250.D

Acq: 16 Jun 2023 10:54

Instrument :

MSVOA\_N

ClientSampleId :

VN0616WBL01

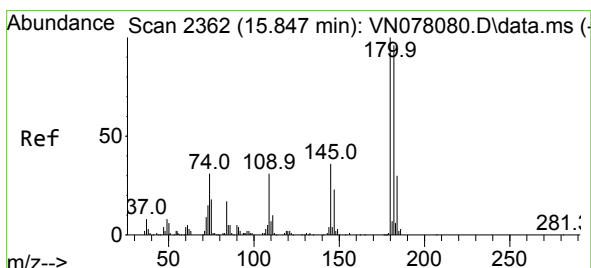
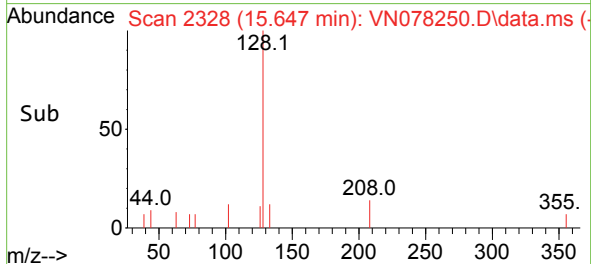
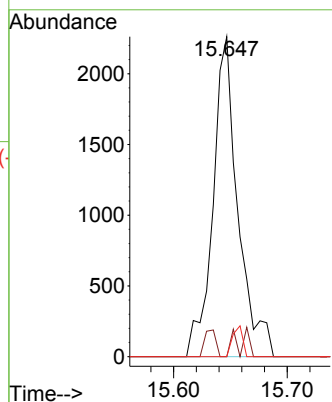
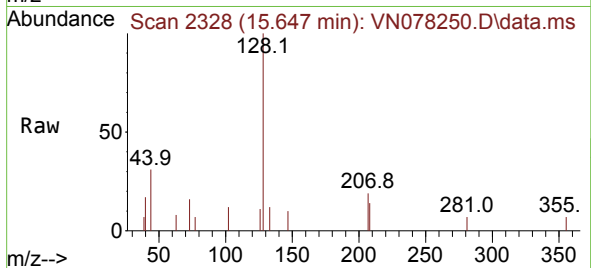
Tgt Ion:128 Resp: 3449

Ion Ratio Lower Upper

128 100

127 4.1 10.0 15.0#

129 3.9 8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.308 ug/l

RT: 15.847 min Scan# 2362

Delta R.T. -0.000 min

Lab File: VN078250.D

Acq: 16 Jun 2023 10:54

Tgt Ion:180 Resp: 963

Ion Ratio Lower Upper

180 100

182 82.9 46.2 138.6

145 27.9 17.5 52.6

