

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN022824\  
 Data File : VN081237.D  
 Acq On : 28 Feb 2024 12:07  
 Operator : JC\MD  
 Sample : VN0228MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0228MBL01

Quant Time: Feb 28 23:23:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N021624W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 16 23:45:20 2024  
 Response via : Initial Calibration

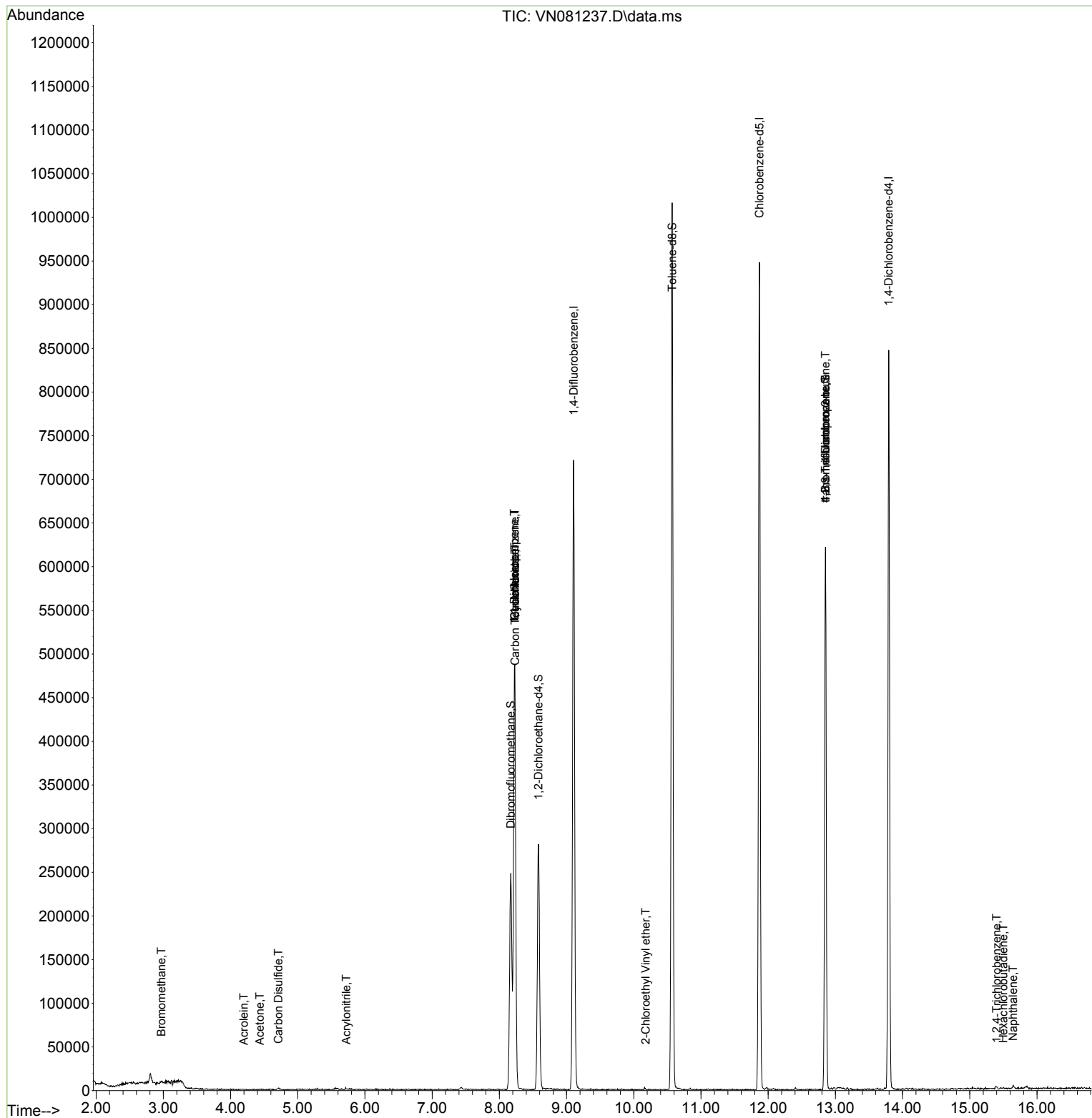
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 8.229          | 168  | 330798              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106          | 114  | 621750              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.870         | 117  | 542373              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794         | 152  | 207092              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.582          | 65   | 224298              | 55.319    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 110.640% |           |        |          |
| 35) Dibromofluoromethane      | 8.171          | 113  | 180501              | 51.340    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 102.680% |           |        |          |
| 50) Toluene-d8                | 10.571         | 98   | 678289              | 54.319    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 108.640% |           |        |          |
| 62) 4-Bromofluorobenzene      | 12.853         | 95   | 214394              | 45.692    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 91.380%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        |          |
|                               |                |      |                     |           | Qvalue |          |
| 3) Chloromethane              | 2.359          | 50   | 788                 | Below Cal | #      | 70       |
| 5) Bromomethane               | 2.971          | 94   | 804                 | 0.238     | ug/l   | 97       |
| 6) Chloroethane               | 3.130          | 64   | 108                 | Below Cal | #      | 42       |
| 13) Acrolein                  | 4.200          | 56   | 694                 | 1.736     | ug/l   | # 25     |
| 15) Acrylonitrile             | 5.724          | 53   | 1020                | 0.524     | ug/l   | # 45     |
| 16) Acetone                   | 4.436          | 43   | 561                 | 0.352     | ug/l   | # 44     |
| 17) Carbon Disulfide          | 4.712          | 76   | 2850                | 0.273     | ug/l   | # 79     |
| 20) Methylene Chloride        | 5.271          | 84   | 445                 | Below Cal | #      | 17       |
| 31) Cyclohexane               | 8.229          | 56   | 9328                | 1.332     | ug/l   | # 1      |
| 36) 1,1-Dichloropropene       | 8.224          | 75   | 31515               | 5.232     | ug/l   | # 51     |
| 38) Carbon Tetrachloride      | 8.235          | 117  | 39442               | 6.472     | ug/l   | # 16     |
| 49) 1,4-Dioxane               | 9.724          | 88   | 152                 | Below Cal | #      | 18       |
| 58) 2-Chloroethyl Vinyl ether | 10.176         | 63   | 763                 | 0.234     | ug/l   | # 69     |
| 76) 1,2,3-Trichloropropane    | 12.853         | 75   | 114987              | 24.438    | ug/l   | # 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.853         | 75   | 114987              | 62.901    | ug/l   | # 14     |
| 93) 1,2,4-Trichlorobenzene    | 15.400         | 180  | 889                 | 0.216     | ug/l   | 59       |
| 94) Hexachlorobutadiene       | 15.500         | 225  | 481                 | 0.314     | ug/l   | # 45     |
| 95) Naphthalene               | 15.647         | 128  | 3686                | 0.245     | ug/l   | # 96     |
| -----                         |                |      |                     |           |        |          |

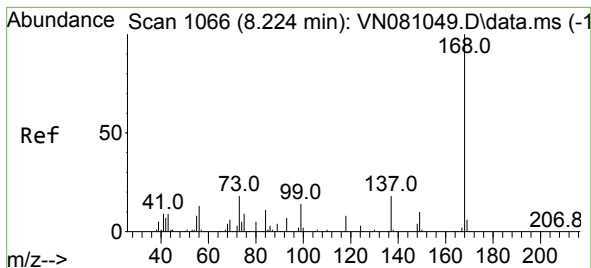
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Feb 16 23:45:20 2024  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.229 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN081237.D

Acq: 28 Feb 2024 12:07

Instrument :

MSVOA\_N

ClientSampleId :

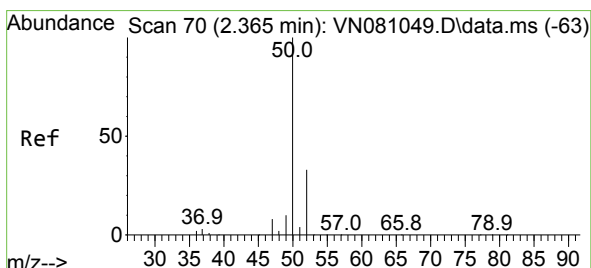
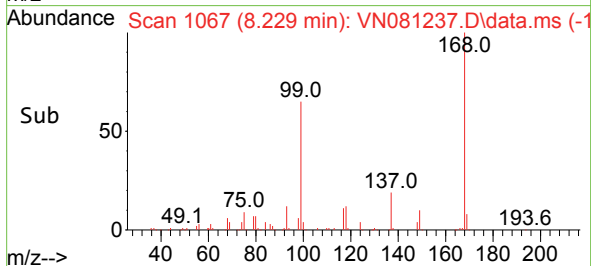
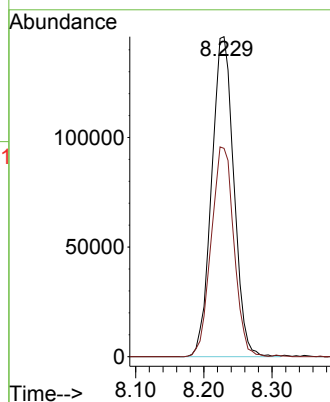
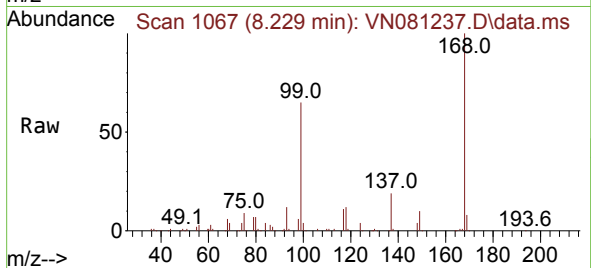
VN0228MBL01

Tgt Ion:168 Resp: 330798

Ion Ratio Lower Upper

168 100

99 65.1 59.9 89.9



#3

Chloromethane

Concen: Below Cal

RT: 2.359 min Scan# 69

Delta R.T. -0.006 min

Lab File: VN081237.D

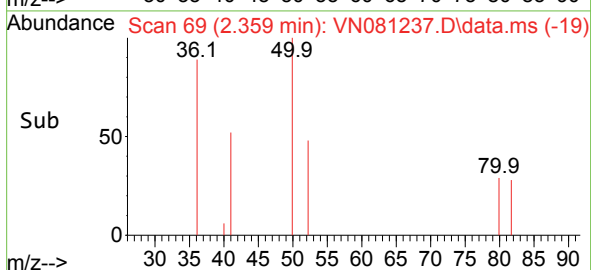
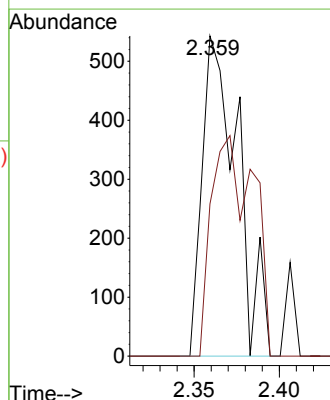
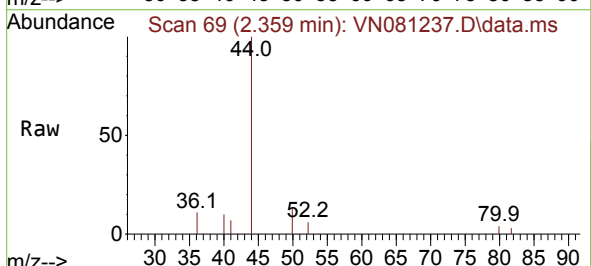
Acq: 28 Feb 2024 12:07

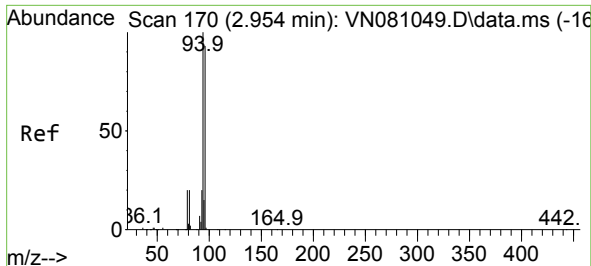
Tgt Ion: 50 Resp: 788

Ion Ratio Lower Upper

50 100

52 47.5 25.0 37.4#

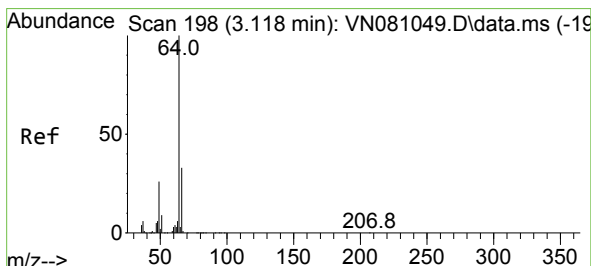
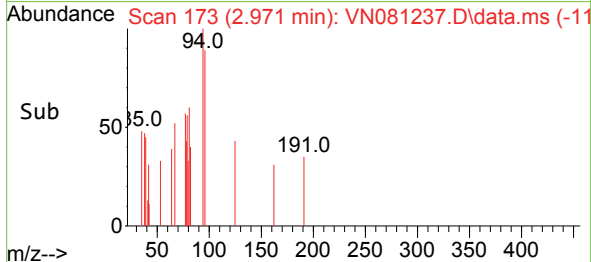
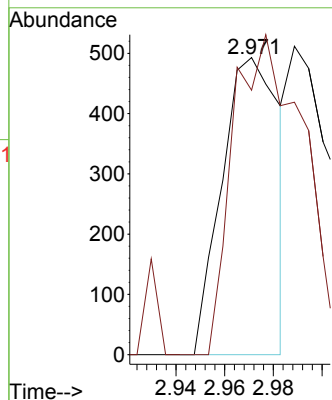
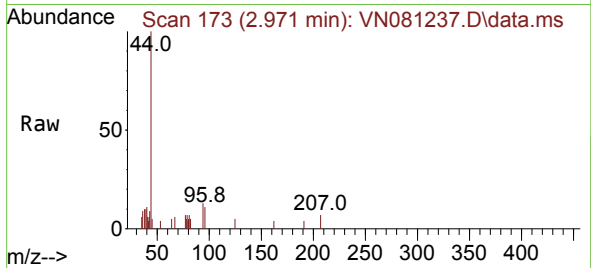




#5  
Bromomethane  
Concen: 0.238 ug/l  
RT: 2.971 min Scan# 11  
Delta R.T. 0.017 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

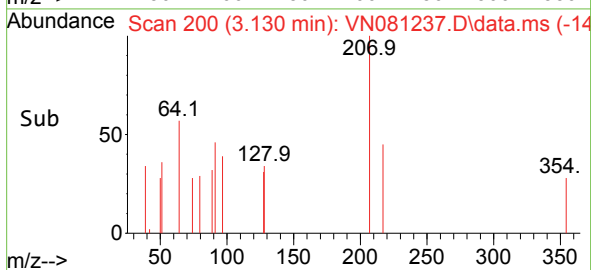
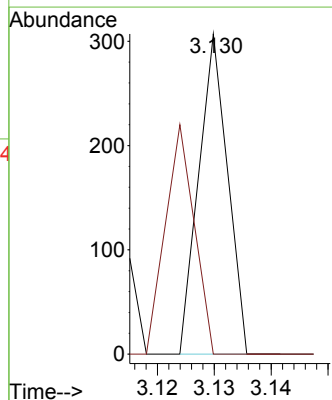
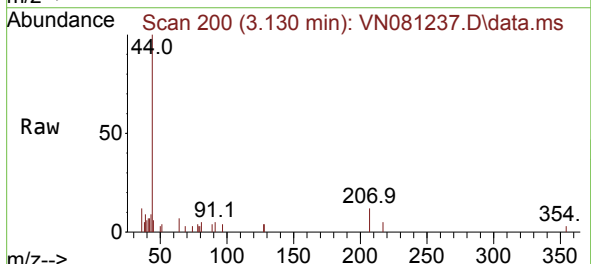
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01

Tgt Ion: 94 Resp: 804  
Ion Ratio Lower Upper  
94 100  
96 89.0 69.2 103.8



#6  
Chloroethane  
Concen: Below Cal  
RT: 3.130 min Scan# 200  
Delta R.T. 0.012 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Tgt Ion: 64 Resp: 108  
Ion Ratio Lower Upper  
64 100  
66 0.0 26.4 39.6#

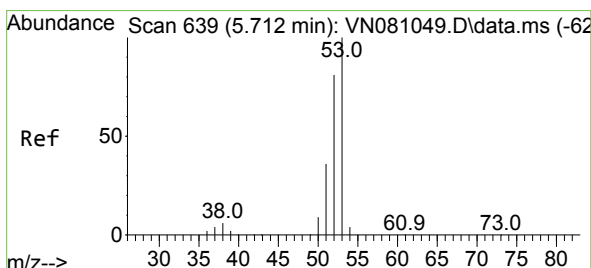
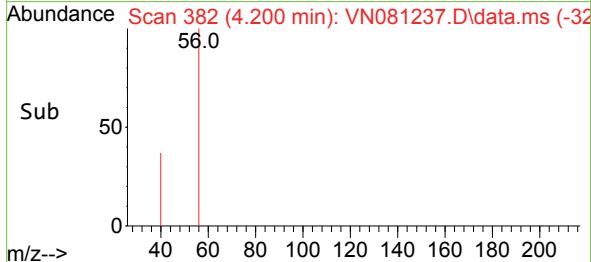
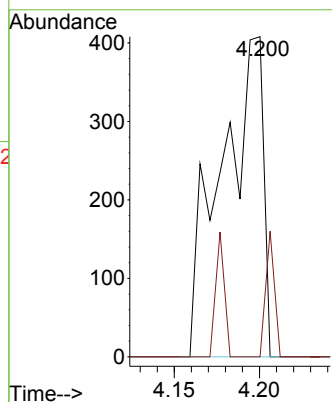
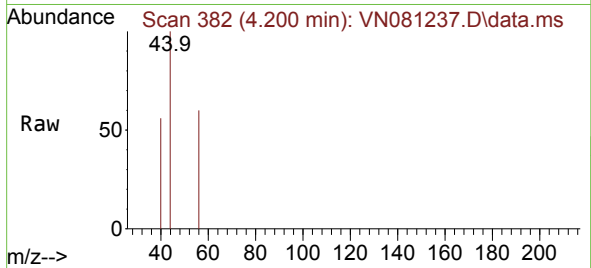




#13  
Acrolein  
Concen: 1.736 ug/l  
RT: 4.200 min Scan# 31  
Delta R.T. 0.023 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

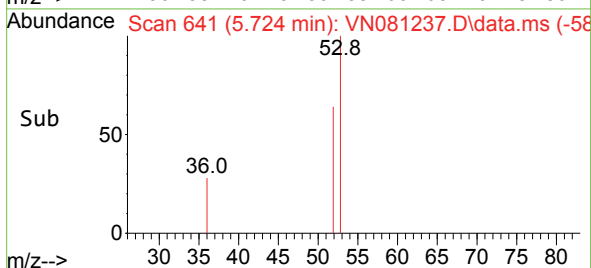
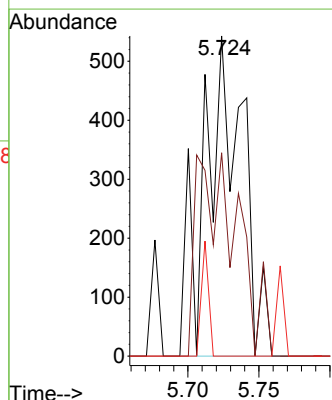
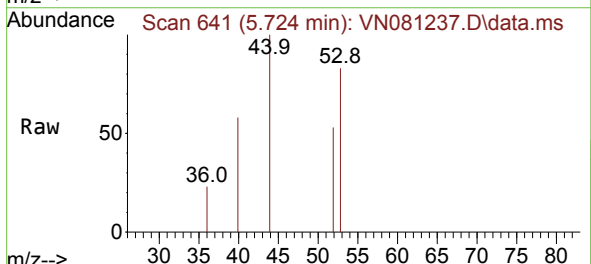
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01

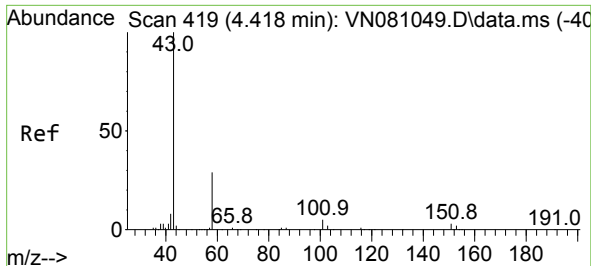
Tgt Ion: 56 Resp: 694  
Ion Ratio Lower Upper  
56 100  
55 8.1 55.3 82.9#



#15  
Acrylonitrile  
Concen: 0.524 ug/l  
RT: 5.724 min Scan# 641  
Delta R.T. 0.012 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Tgt Ion: 53 Resp: 1020  
Ion Ratio Lower Upper  
53 100  
52 29.2 64.8 97.2#  
51 6.8 26.9 40.3#

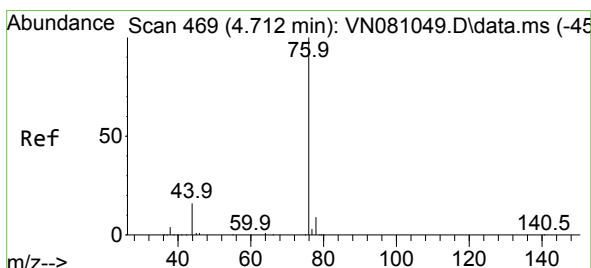
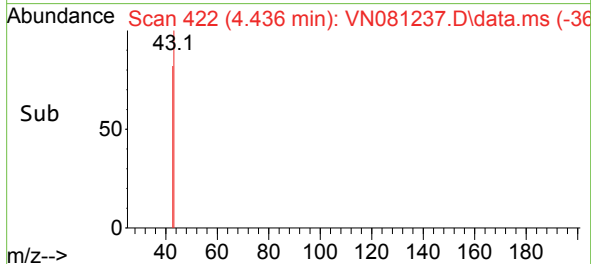
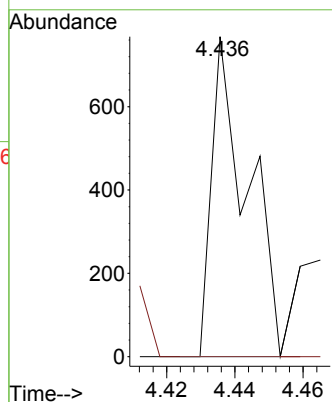
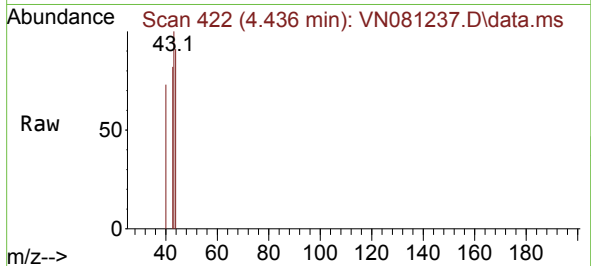




#16  
Acetone  
Concen: 0.352 ug/l  
RT: 4.436 min Scan# 419  
Delta R.T. 0.017 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

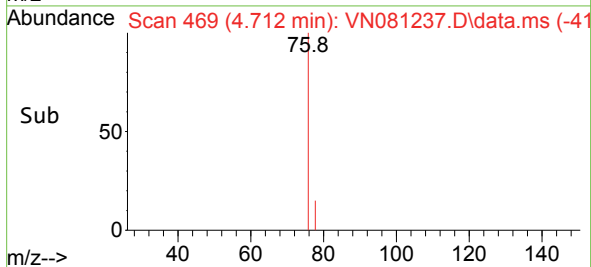
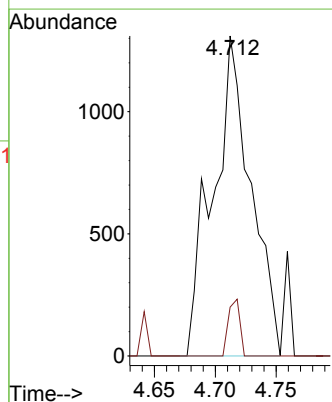
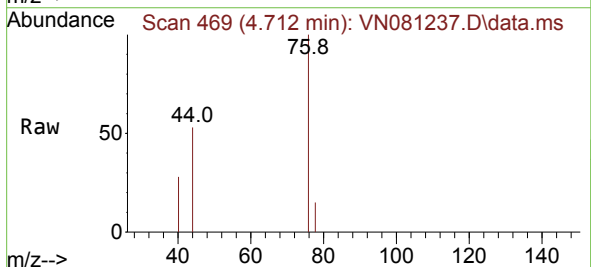
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01

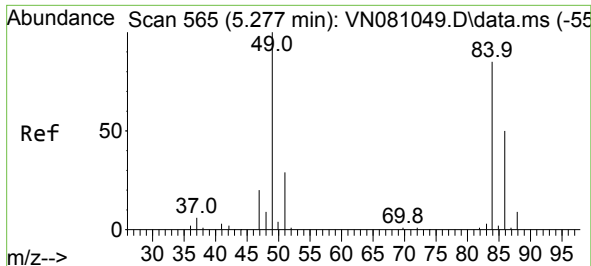
Tgt Ion: 43 Resp: 561  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.8 37.2#



#17  
Carbon Disulfide  
Concen: 0.273 ug/l  
RT: 4.712 min Scan# 469  
Delta R.T. -0.000 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

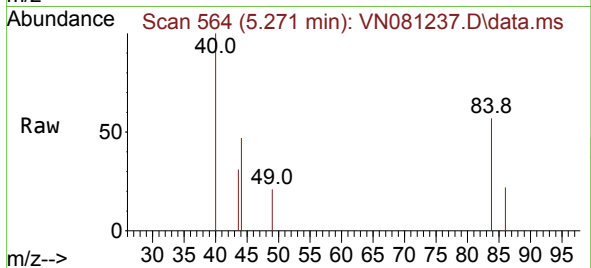
Tgt Ion: 76 Resp: 2850  
Ion Ratio Lower Upper  
76 100  
78 15.3 6.3 9.5#





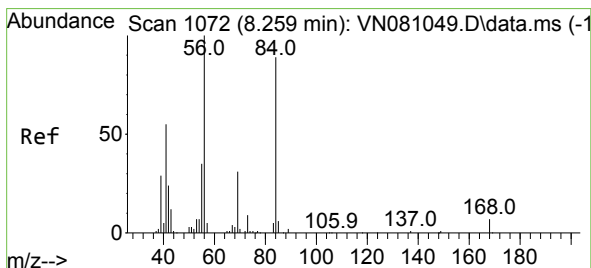
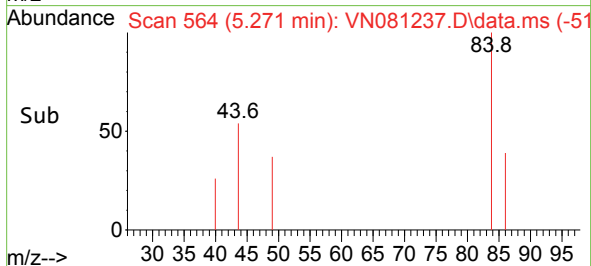
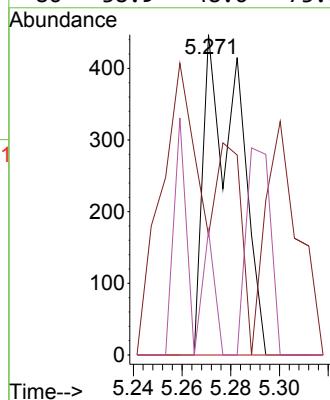
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 5.271 min Scan# 50  
Delta R.T. -0.006 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01



Tgt Ion: 84 Resp: 445

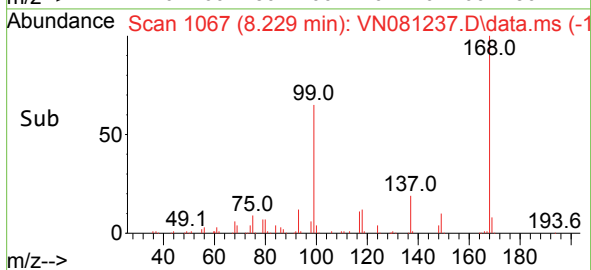
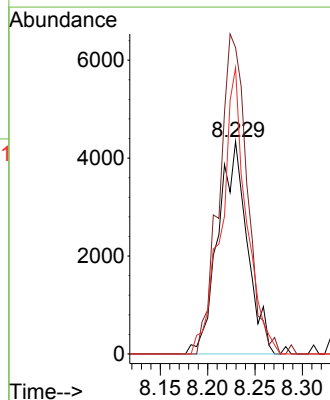
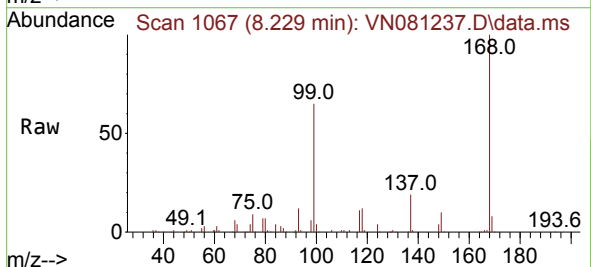
| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 84  | 100   |       |        |
| 49  | 0.0   | 108.1 | 162.1# |
| 51  | 0.0   | 32.9  | 49.3#  |
| 86  | 38.9  | 48.6  | 73.0#  |

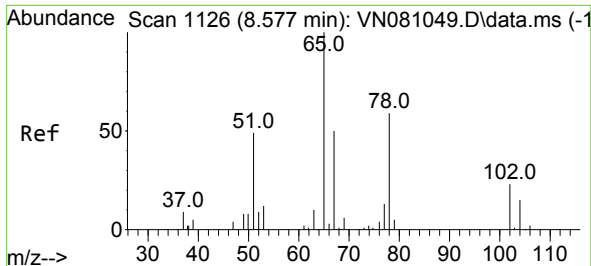


#31  
Cyclohexane  
Concen: 1.332 ug/l  
RT: 8.229 min Scan# 1067  
Delta R.T. -0.030 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Tgt Ion: 56 Resp: 9328

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 144.1 | 20.1  | 30.1# |
| 84  | 134.6 | 56.9  | 85.3# |





#33

1,2-Dichloroethane-d4

Concen: 55.319 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081237.D

Acq: 28 Feb 2024 12:07

Instrument :

MSVOA\_N

ClientSampleId :

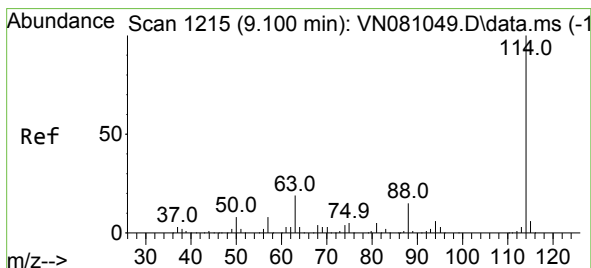
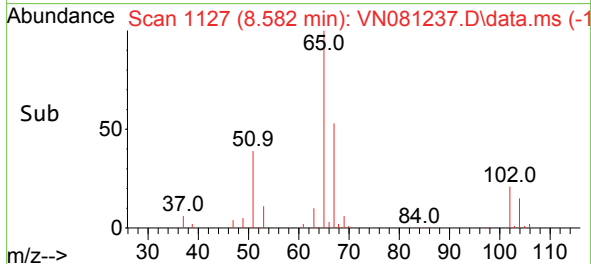
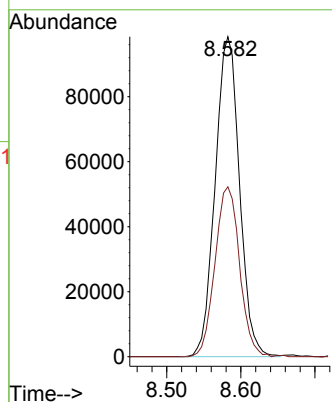
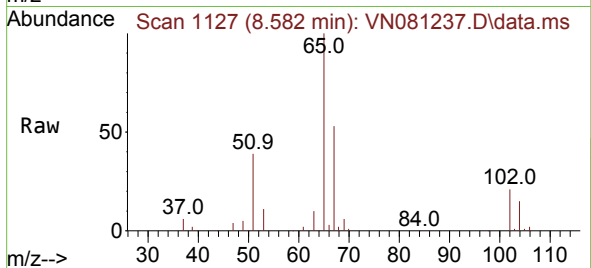
VN0228MBL01

Tgt Ion: 65 Resp: 224298

Ion Ratio Lower Upper

65 100

67 53.7 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081237.D

Acq: 28 Feb 2024 12:07

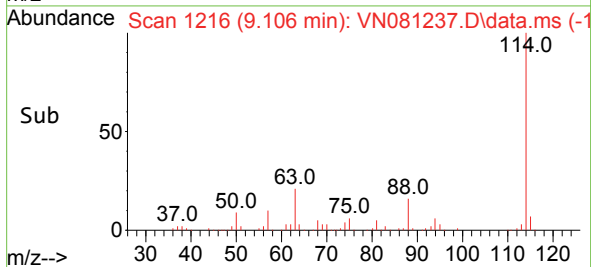
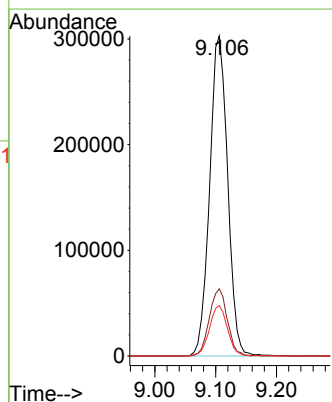
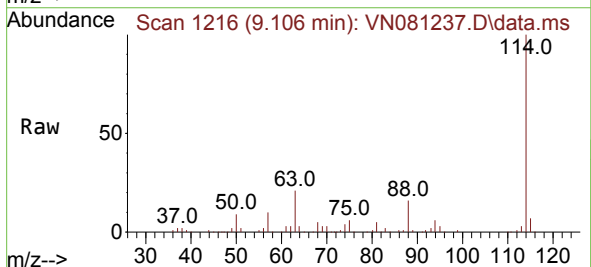
Tgt Ion: 114 Resp: 621750

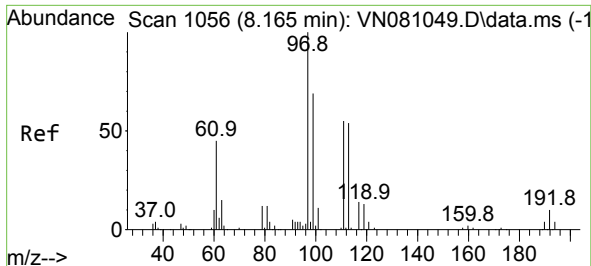
Ion Ratio Lower Upper

114 100

63 21.0 0.0 48.0

88 15.8 0.0 34.8





#35

Dibromofluoromethane

Concen: 51.340 ug/l

RT: 8.171 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN081237.D

Acq: 28 Feb 2024 12:07

Instrument :

MSVOA\_N

ClientSampleId :

VN0228MBL01

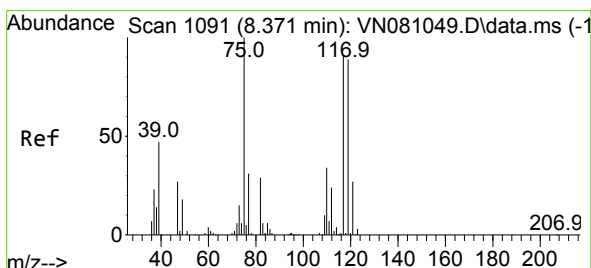
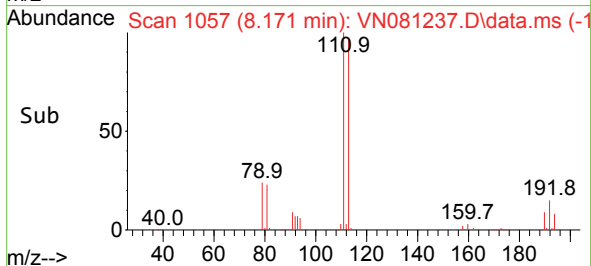
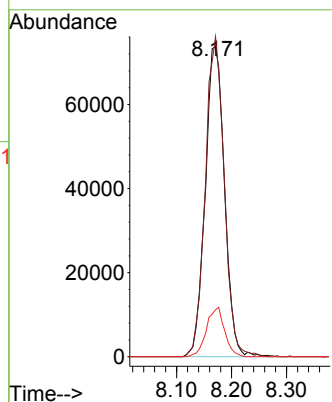
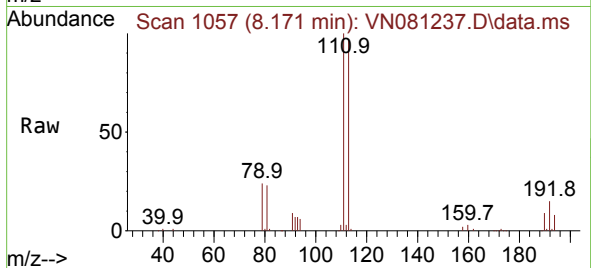
Tgt Ion:113 Resp: 180501

Ion Ratio Lower Upper

113 100

111 100.9 82.2 123.4

192 14.9 12.5 18.7



#36

1,1-Dichloropropene

Concen: 5.232 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN081237.D

Acq: 28 Feb 2024 12:07

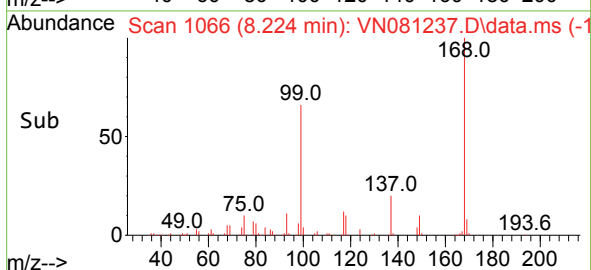
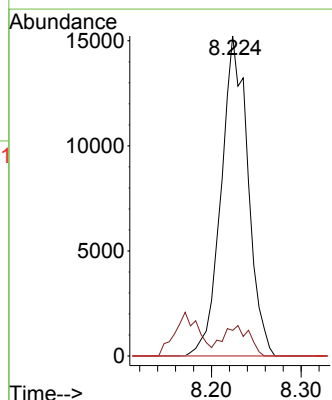
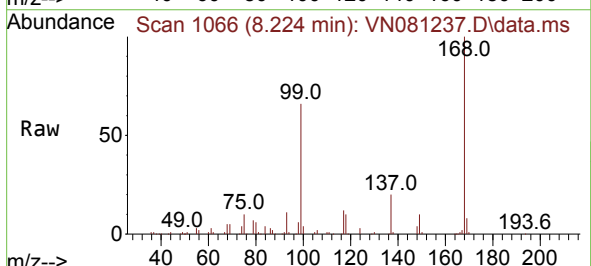
Tgt Ion: 75 Resp: 31515

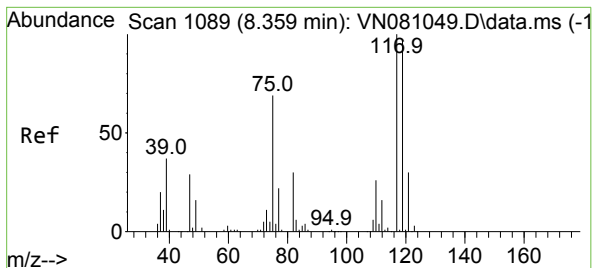
Ion Ratio Lower Upper

75 100

110 9.4 16.0 48.0#

77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 6.472 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.124 min

Lab File: VN081237.D

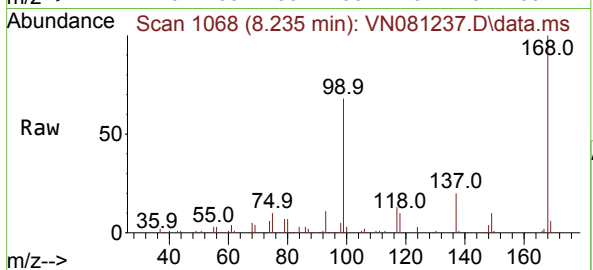
Acq: 28 Feb 2024 12:07

Instrument :

MSVOA\_N

ClientSampleId :

VN0228MBL01



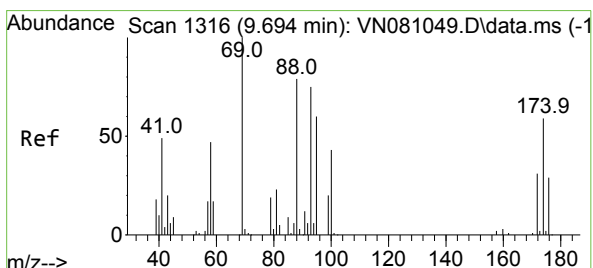
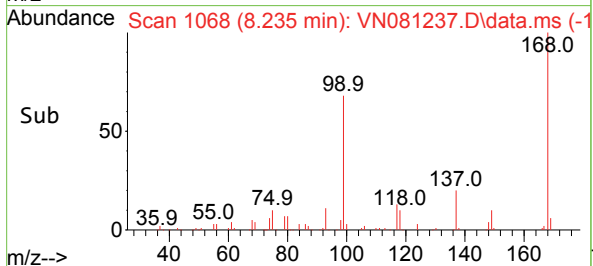
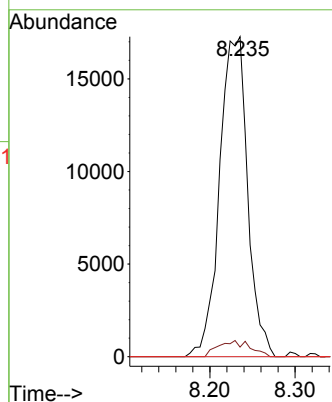
Tgt Ion:117 Resp: 39442

Ion Ratio Lower Upper

117 100

119 3.0 73.4 110.2#

121 0.0 24.4 36.6#



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.724 min Scan# 1321

Delta R.T. 0.030 min

Lab File: VN081237.D

Acq: 28 Feb 2024 12:07

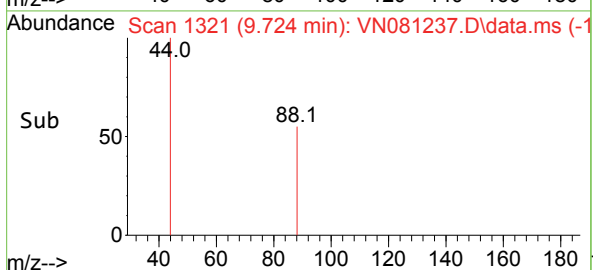
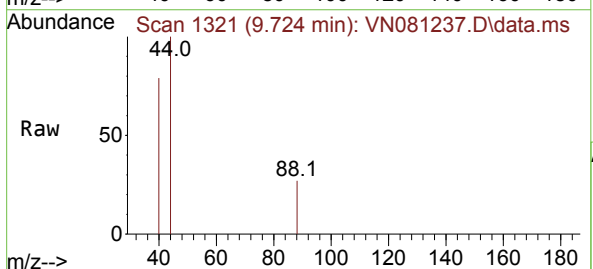
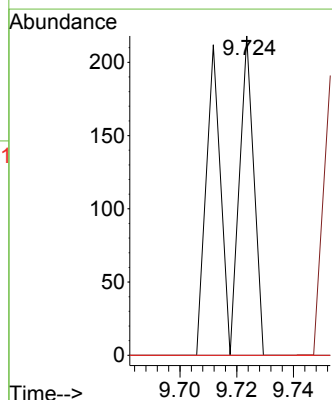
Tgt Ion: 88 Resp: 152

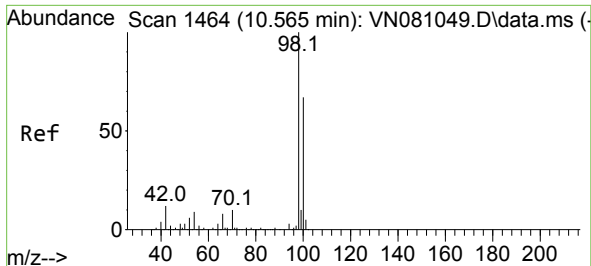
Ion Ratio Lower Upper

88 100

43 0.0 30.1 45.1#

58 0.0 63.9 95.9#

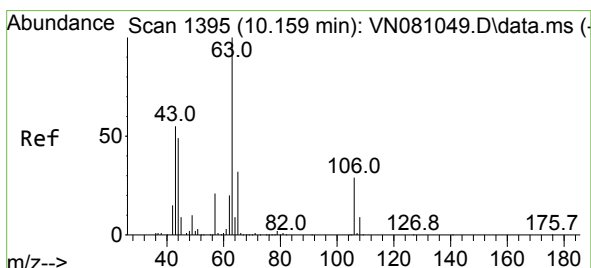
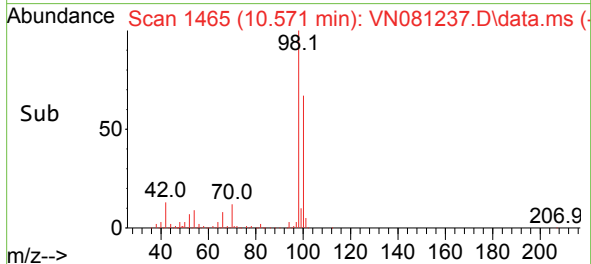
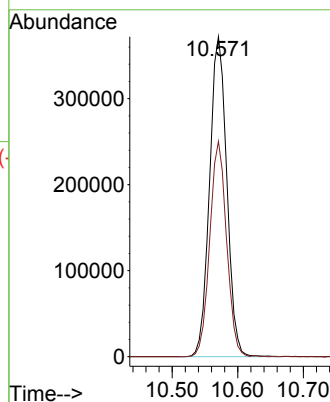
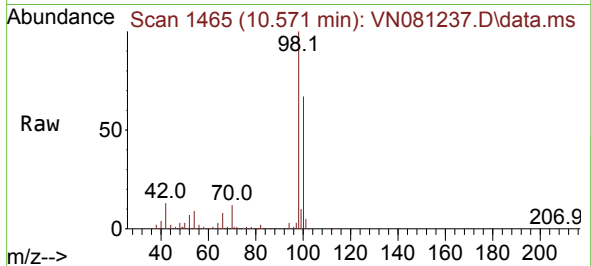




#50  
Toluene-d8  
Concen: 54.319 ug/l  
RT: 10.571 min Scan# 1464  
Delta R.T. 0.006 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

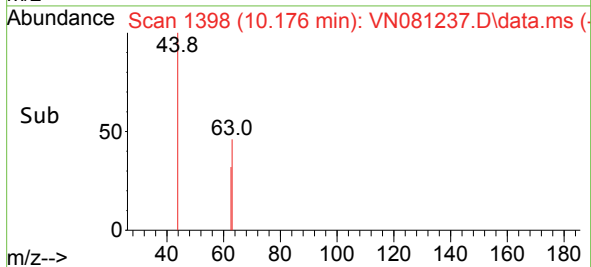
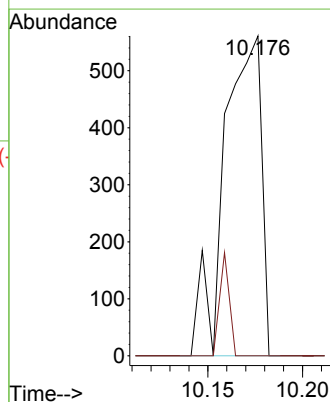
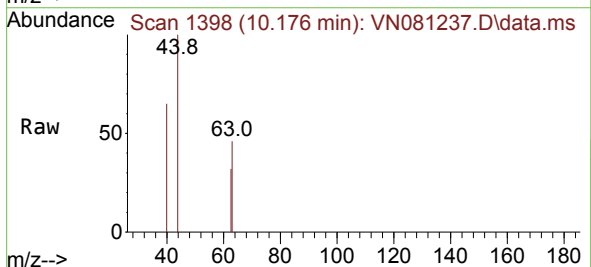
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01

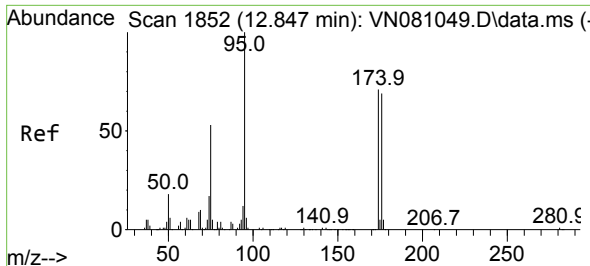
Tgt Ion: 98 Resp: 678289  
Ion Ratio Lower Upper  
98 100  
100 65.8 51.4 77.0



#58  
2-Chloroethyl Vinyl ether  
Concen: 0.234 ug/l  
RT: 10.176 min Scan# 1398  
Delta R.T. 0.017 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Tgt Ion: 63 Resp: 763  
Ion Ratio Lower Upper  
63 100  
106 8.4 18.6 28.0#

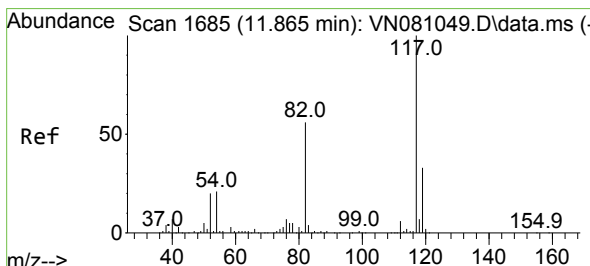
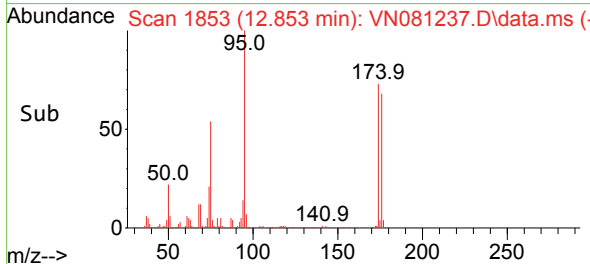
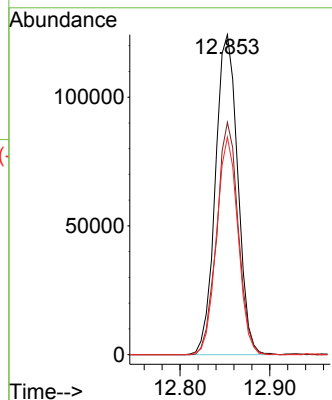
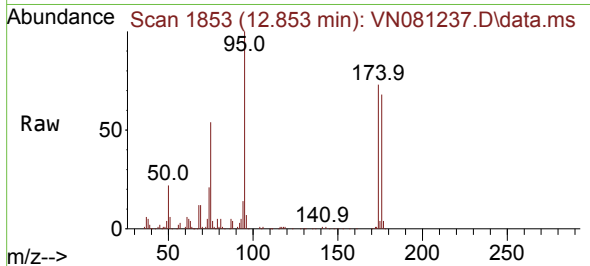




#62  
4-Bromofluorobenzene  
Concen: 45.692 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.006 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

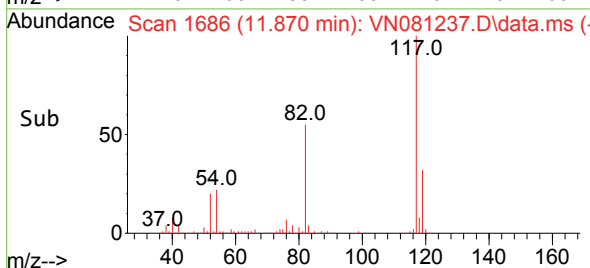
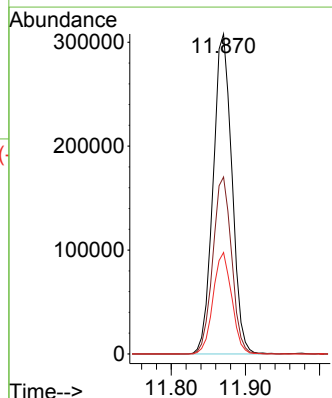
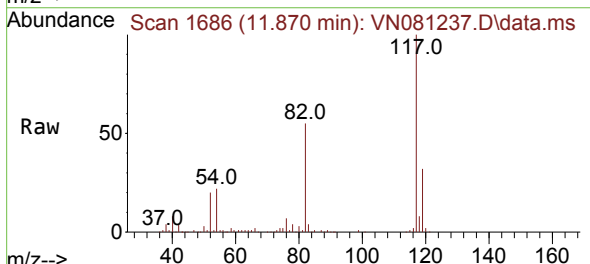
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01

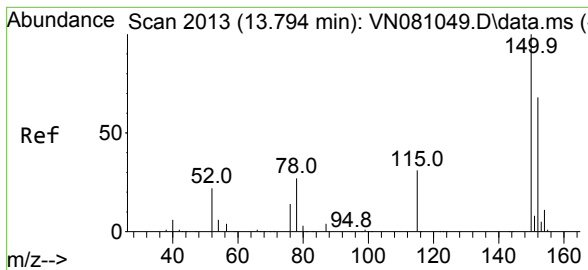
Tgt Ion: 95 Resp: 214394  
Ion Ratio Lower Upper  
95 100  
174 70.3 0.0 120.4  
176 65.5 0.0 121.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.870 min Scan# 1686  
Delta R.T. 0.006 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Tgt Ion: 117 Resp: 542373  
Ion Ratio Lower Upper  
117 100  
82 55.3 52.7 79.1  
119 31.7 25.3 37.9

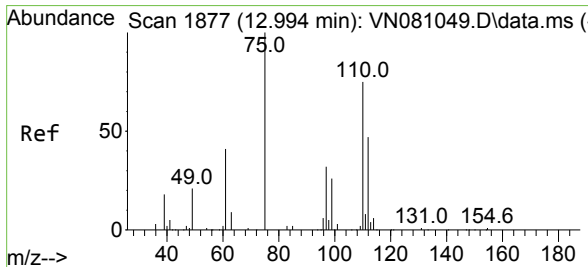
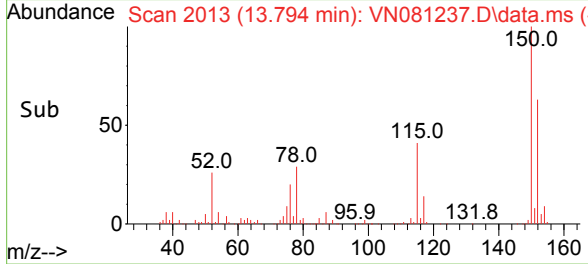
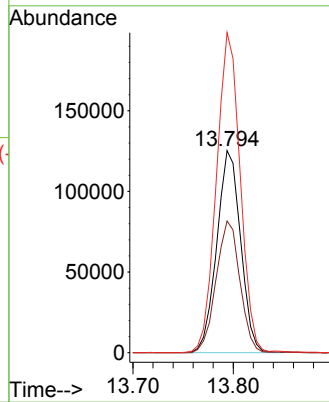
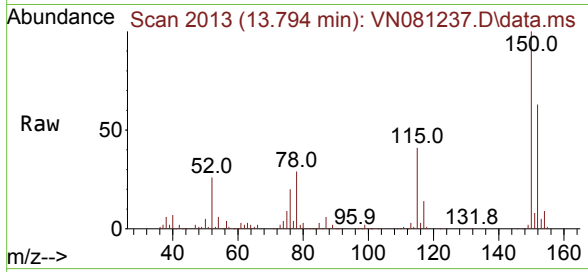




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 20  
Delta R.T. -0.000 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

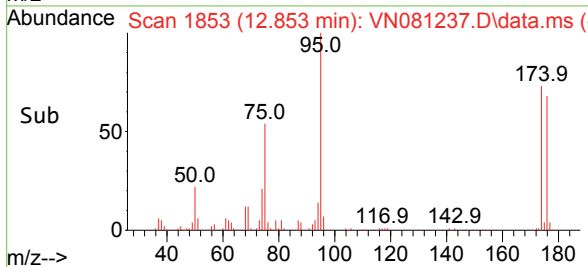
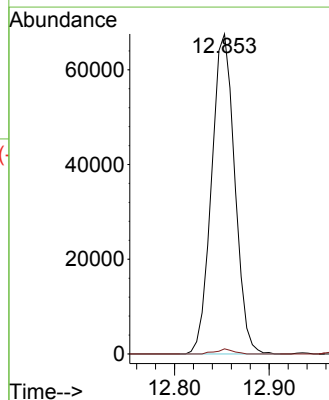
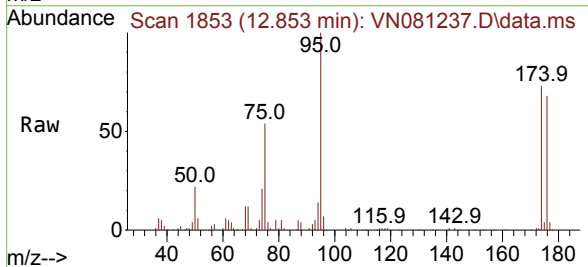
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01

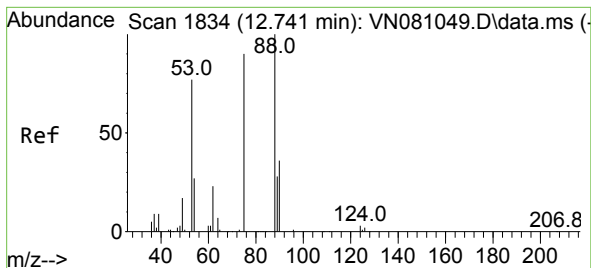
Tgt Ion:152 Resp: 207092  
Ion Ratio Lower Upper  
152 100  
115 65.0 32.3 96.8  
150 158.1 0.0 339.8



#76  
1,2,3-Trichloropropane  
Concen: 24.438 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.141 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Tgt Ion: 75 Resp: 114987  
Ion Ratio Lower Upper  
75 100  
77 1.2 91.0 272.8#

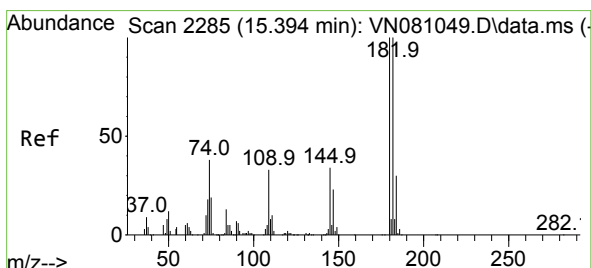
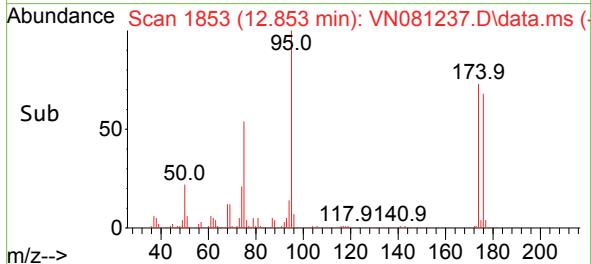
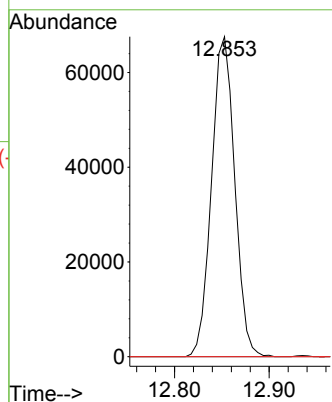
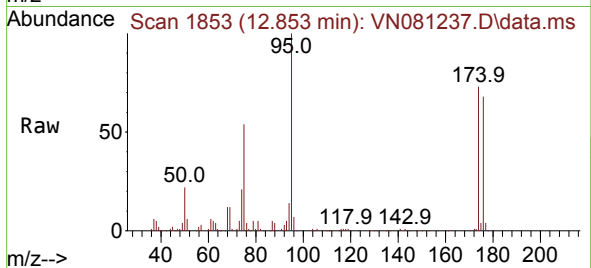




#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.901 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. 0.112 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

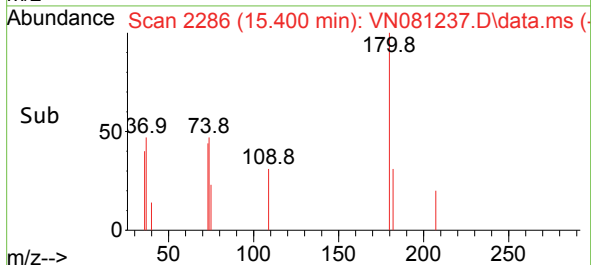
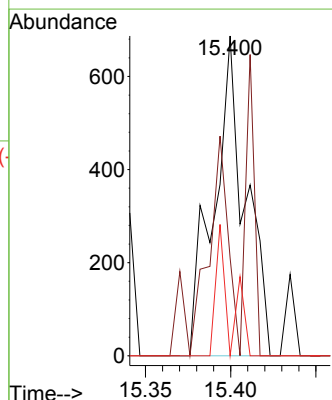
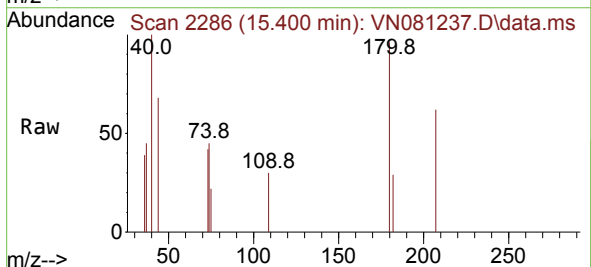
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01

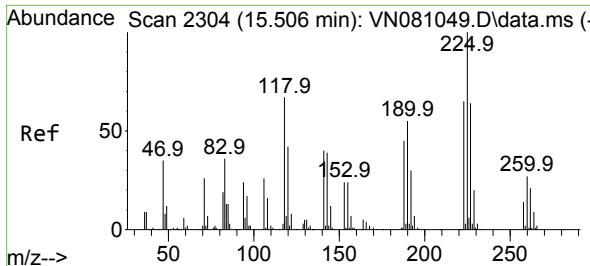
Tgt Ion: 75 Resp: 114987  
Ion Ratio Lower Upper  
75 100  
53 0.0 71.4 107.2#  
89 0.0 33.4 50.0#



#93  
1,2,4-Trichlorobenzene  
Concen: 0.216 ug/l  
RT: 15.400 min Scan# 2286  
Delta R.T. 0.006 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Tgt Ion: 180 Resp: 889  
Ion Ratio Lower Upper  
180 100  
182 49.3 46.6 139.7  
145 18.0 16.8 50.3

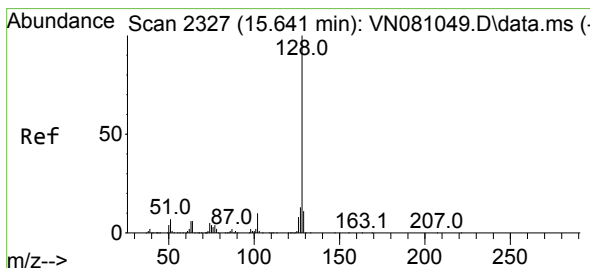
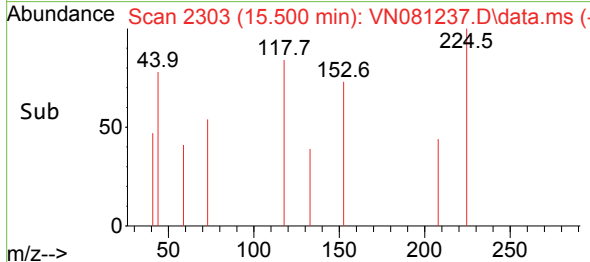
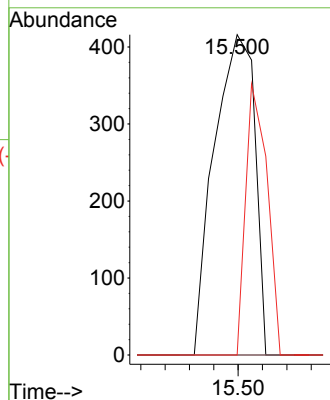
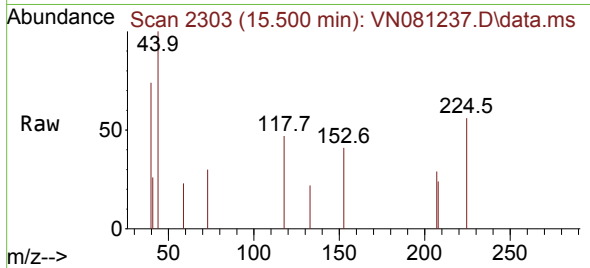




#94  
Hexachlorobutadiene  
Concen: 0.314 ug/l  
RT: 15.500 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0228MBL01

Tgt Ion:225 Resp: 481  
Ion Ratio Lower Upper  
225 100  
223 0.0 33.3 99.8#  
227 44.7 33.1 99.2



#95  
Naphthalene  
Concen: 0.245 ug/l  
RT: 15.647 min Scan# 2328  
Delta R.T. 0.006 min  
Lab File: VN081237.D  
Acq: 28 Feb 2024 12:07

Tgt Ion:128 Resp: 3686  
Ion Ratio Lower Upper  
128 100  
127 12.1 10.0 15.0  
129 7.9 8.7 13.1#

