

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN031424\  
 Data File : VN081422.D  
 Acq On : 14 Mar 2024 20:05  
 Operator : JC\MD  
 Sample : P1769-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FB-3-14-24

Quant Time: Mar 15 01:18:46 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N030524W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 06 03:12:57 2024  
 Response via : Initial Calibration

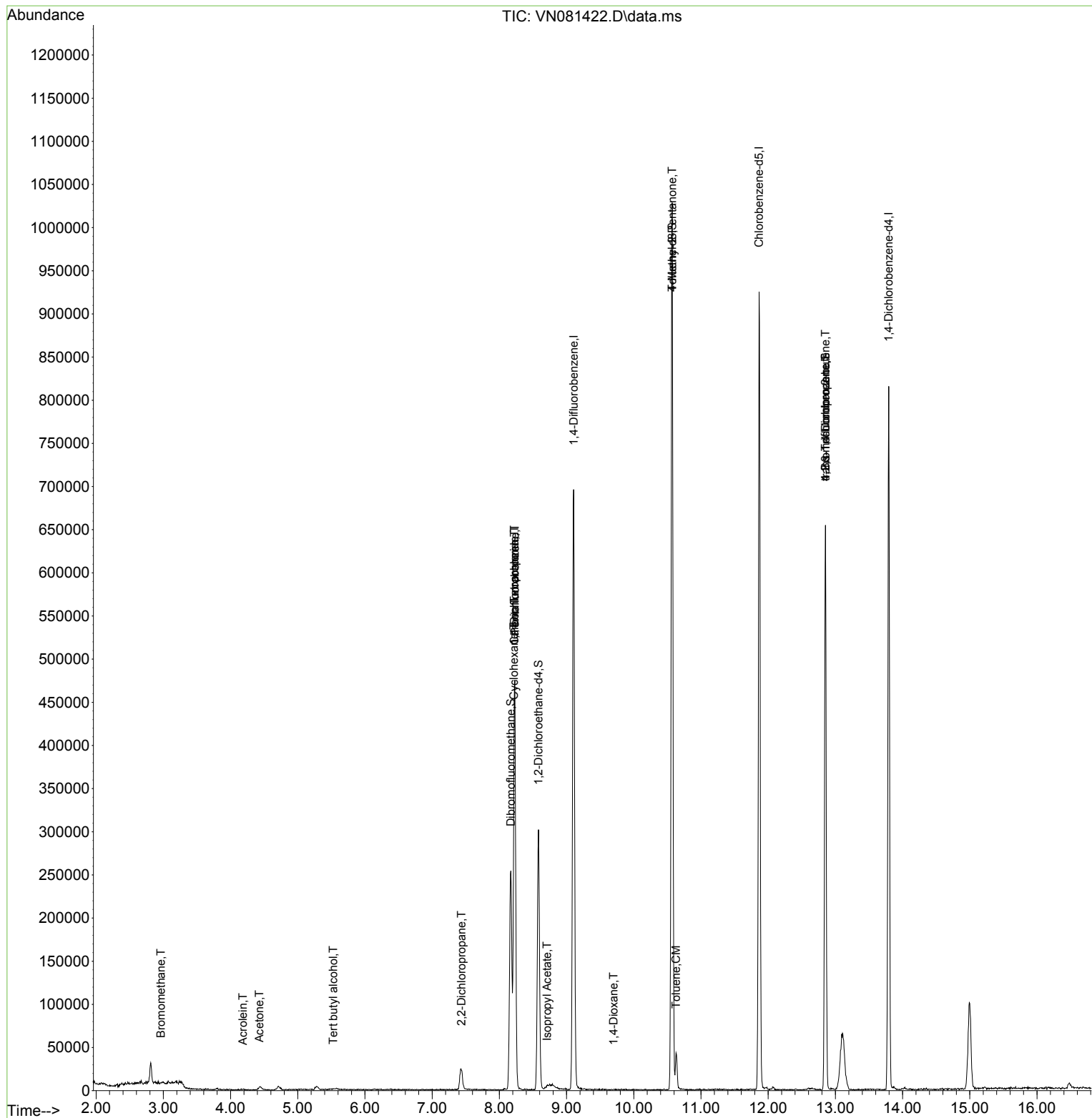
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.230  | 168   | 321080   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.106  | 114   | 582069   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 503941   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.794 | 152   | 198825   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.582  | 65    | 236360   | 50.913    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 101.820% |          |
| 35) Dibromofluoromethane      | 8.171  | 113   | 185258   | 51.949    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 103.900% |          |
| 50) Toluene-d8                | 10.571 | 98    | 693580   | 52.027    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 104.060% |          |
| 62) 4-Bromofluorobenzene      | 12.853 | 95    | 220194   | 46.733    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 64 - 133 | Recovery  | = 93.460%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.965  | 94    | 1261     | 0.394     | ug/l #     | 48       |
| 11) Tert butyl alcohol        | 5.530  | 59    | 506      | 0.623     | ug/l #     | 72       |
| 13) Acrolein                  | 4.183  | 56    | 405      | 0.421     | ug/l #     | 72       |
| 16) Acetone                   | 4.430  | 43    | 3026     | 1.840     | ug/l       | 90       |
| 20) Methylene Chloride        | 5.289  | 84    | 1502     | Below Cal | #          | 93       |
| 26) 2,2-Dichloropropane       | 7.435  | 77    | 1799     | 0.270     | ug/l #     | 53       |
| 31) Cyclohexane               | 8.218  | 56    | 10039    | 1.428     | ug/l #     | 19       |
| 36) 1,1-Dichloropropene       | 8.224  | 75    | 30607    | 5.320     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 8.224  | 117   | 36859    | 6.366     | ug/l #     | 19       |
| 43) Isopropyl Acetate         | 8.712  | 43    | 3573     | 0.363     | ug/l #     | 57       |
| 49) 1,4-Dioxane               | 9.700  | 88    | 74       | 0.772     | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.571 | 43    | 3481     | 0.609     | ug/l #     | 1        |
| 52) Toluene                   | 10.629 | 92    | 16827    | 1.622     | ug/l       | 99       |
| 76) 1,2,3-Trichloropropane    | 12.853 | 75    | 123758   | 26.353    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.853 | 75    | 123758   | 73.546    | ug/l #     | 14       |
| -----                         |        |       |          |           |            |          |

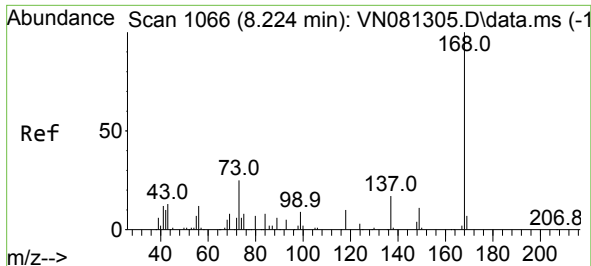
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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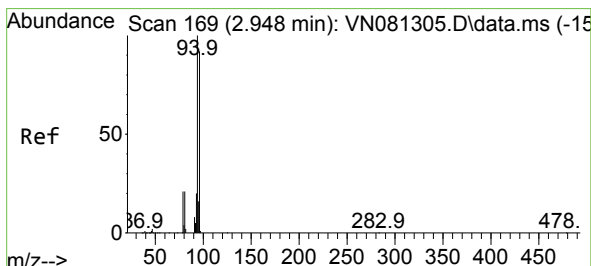
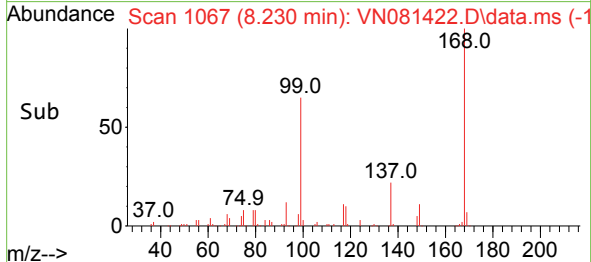
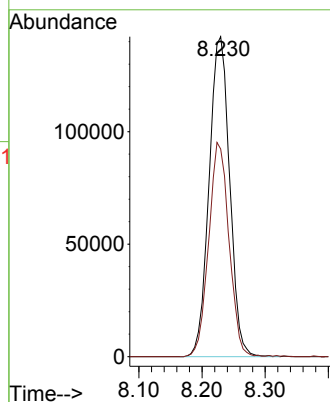
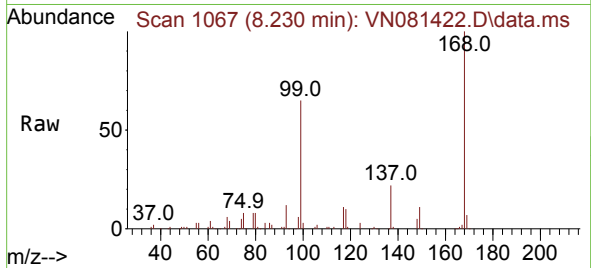




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 10  
Delta R.T. 0.006 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

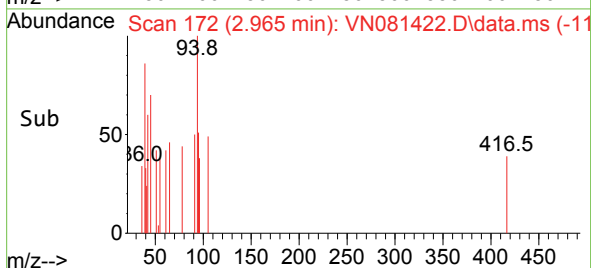
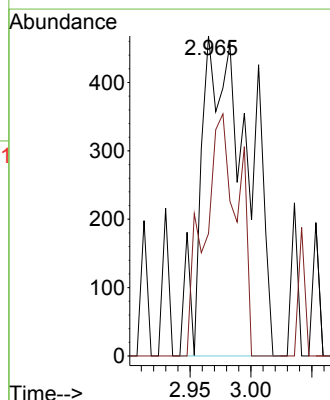
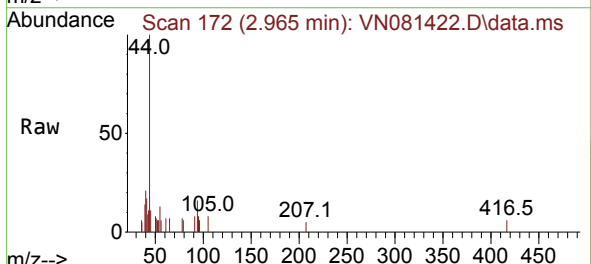
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB-3-14-24

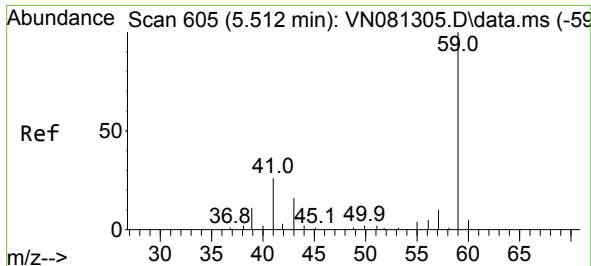
Tgt Ion:168 Resp: 321080  
Ion Ratio Lower Upper  
168 100  
99 64.9 59.9 89.9



#5  
Bromomethane  
Concen: 0.394 ug/l  
RT: 2.965 min Scan# 172  
Delta R.T. 0.018 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

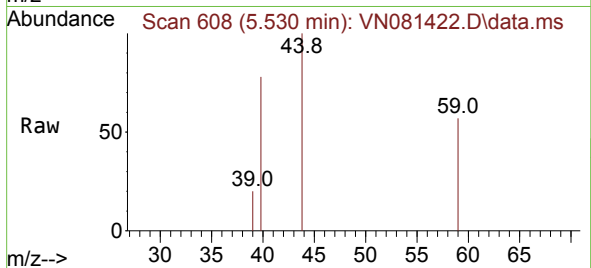
Tgt Ion: 94 Resp: 1261  
Ion Ratio Lower Upper  
94 100  
96 38.2 69.2 103.8#



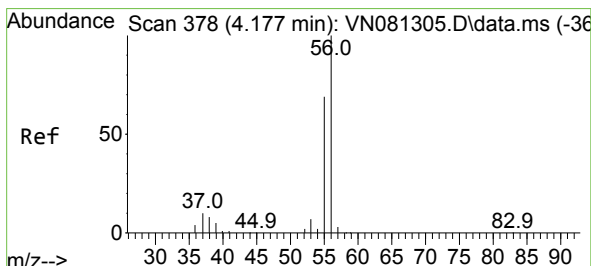
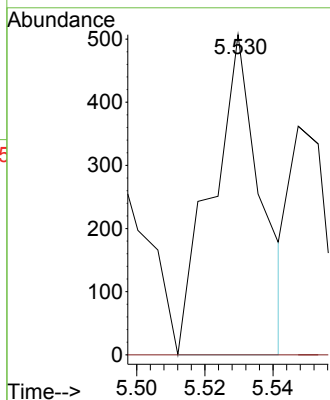
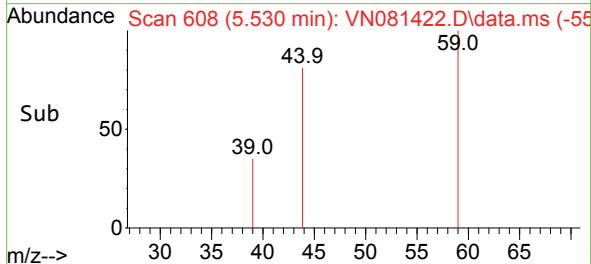


#11  
Tert butyl alcohol  
Concen: 0.623 ug/l  
RT: 5.530 min Scan# 605  
Delta R.T. 0.018 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

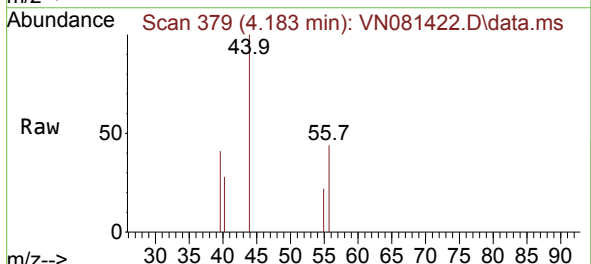
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB-3-14-24



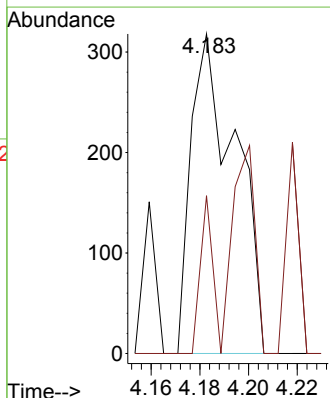
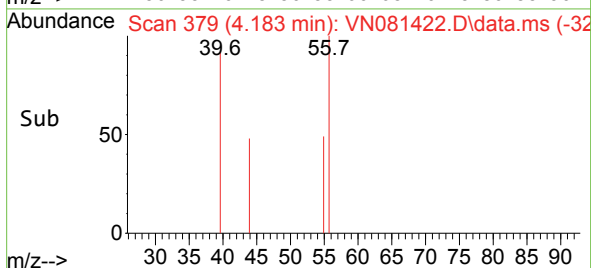
Tgt Ion: 59 Resp: 506  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#

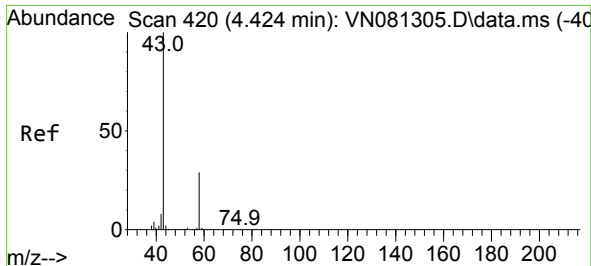


#13  
Acrolein  
Concen: 0.421 ug/l  
RT: 4.183 min Scan# 379  
Delta R.T. 0.006 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05



Tgt Ion: 56 Resp: 405  
Ion Ratio Lower Upper  
56 100  
55 46.2 55.3 82.9#





#16

Acetone

Concen: 1.840 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN081422.D

Acq: 14 Mar 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

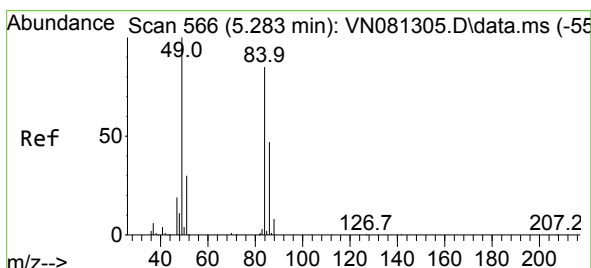
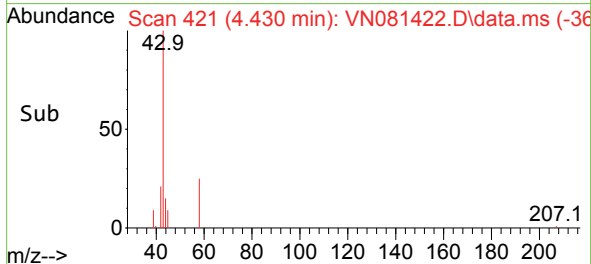
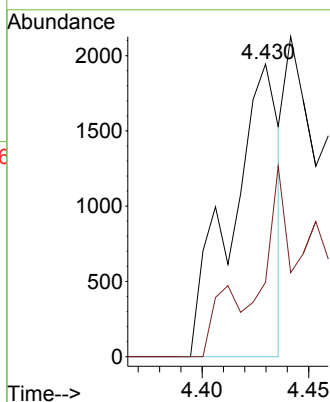
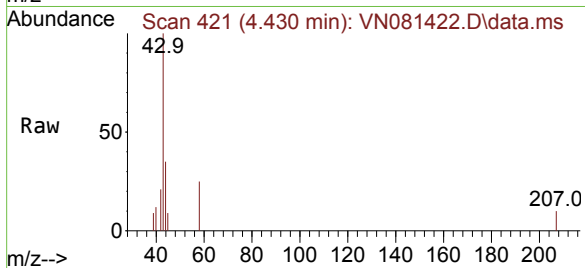
FB-3-14-24

Tgt Ion: 43 Resp: 3026

Ion Ratio Lower Upper

43 100

58 25.4 24.8 37.2



#20

Methylene Chloride

Concen: Below Cal

RT: 5.289 min Scan# 567

Delta R.T. 0.006 min

Lab File: VN081422.D

Acq: 14 Mar 2024 20:05

Tgt Ion: 84 Resp: 1502

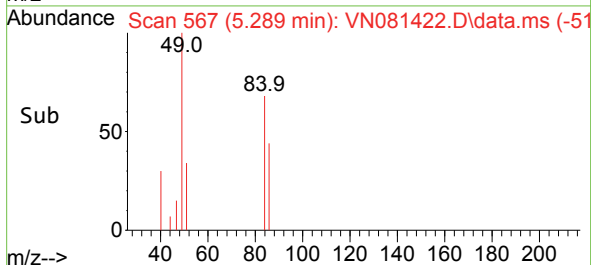
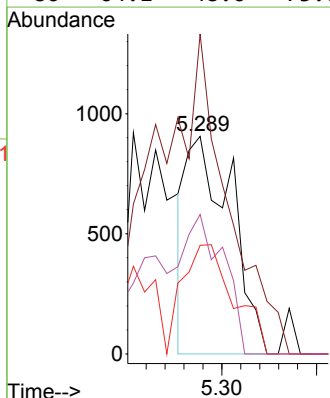
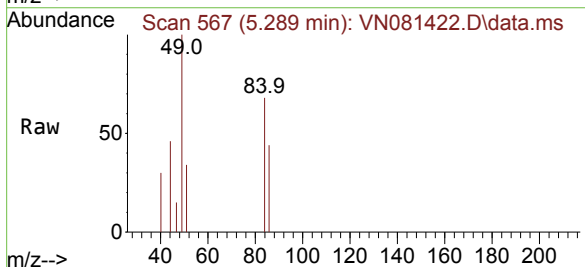
Ion Ratio Lower Upper

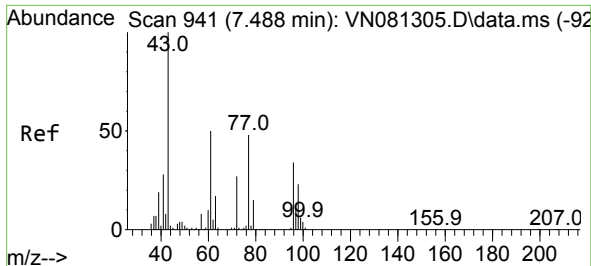
84 100

49 127.9 108.1 162.1

51 49.9 32.9 49.3#

86 64.1 48.6 73.0

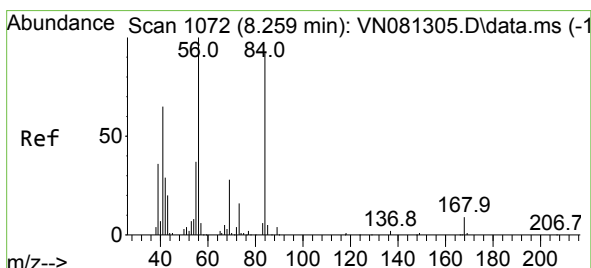
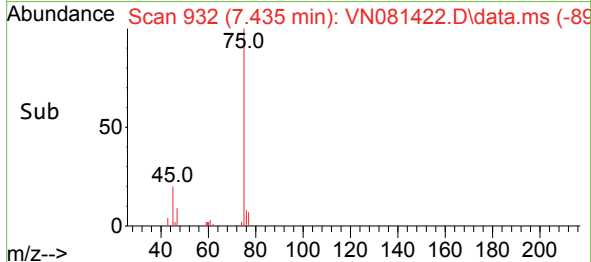
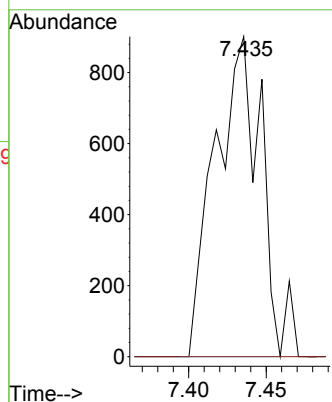
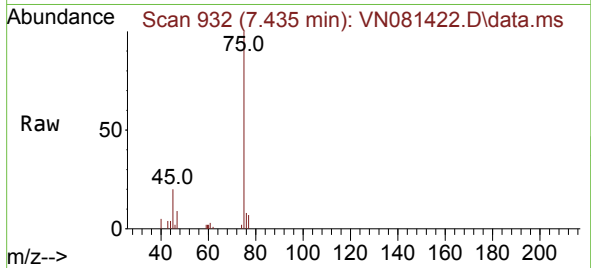




#26  
2,2-Dichloropropane  
Concen: 0.270 ug/l  
RT: 7.435 min Scan# 91  
Delta R.T. -0.053 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

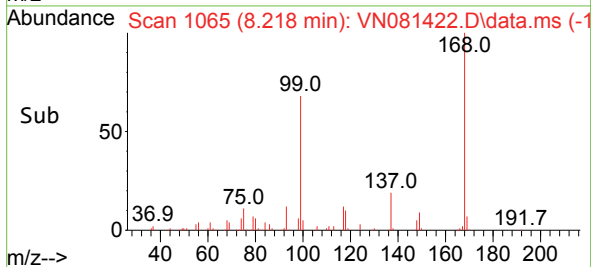
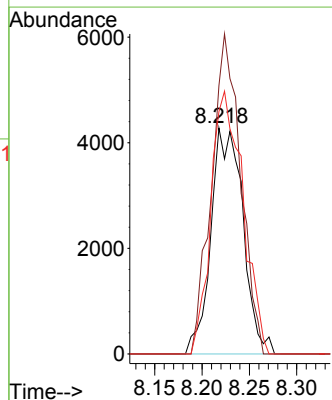
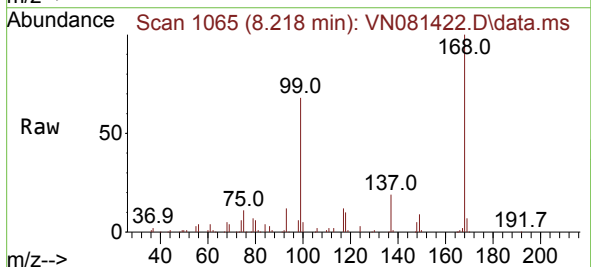
Instrument :  
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FB-3-14-24

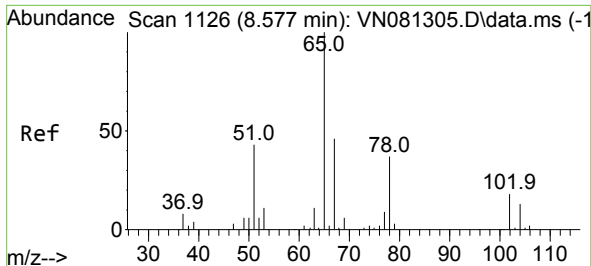
Tgt Ion: 77 Resp: 1799  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.5 34.5#



#31  
Cyclohexane  
Concen: 1.428 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.041 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

Tgt Ion: 56 Resp: 10039  
Ion Ratio Lower Upper  
56 100  
69 118.6 20.1 30.1#  
84 107.1 56.9 85.3#





#33

1,2-Dichloroethane-d4

Concen: 50.913 ug/l

RT: 8.582 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN081422.D

Acq: 14 Mar 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

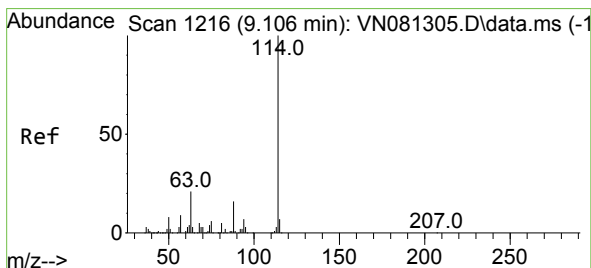
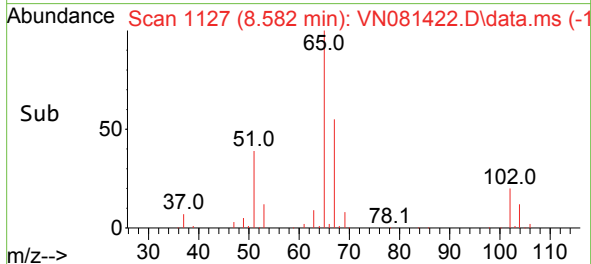
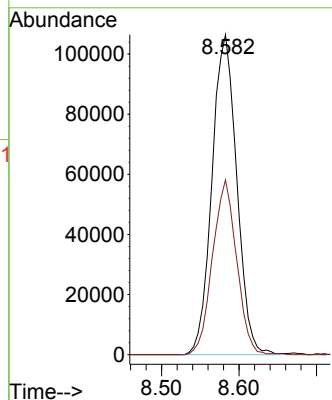
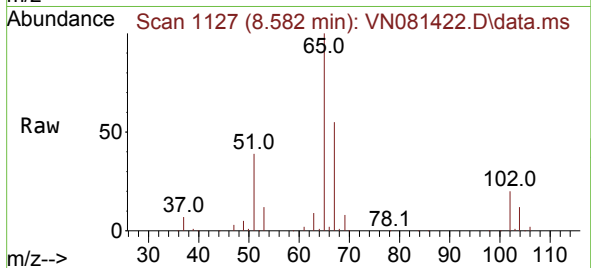
FB-3-14-24

Tgt Ion: 65 Resp: 236360

Ion Ratio Lower Upper

65 100

67 53.0 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN081422.D

Acq: 14 Mar 2024 20:05

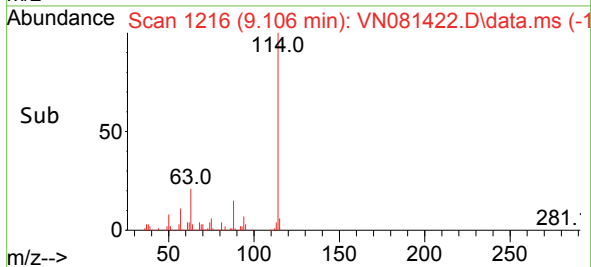
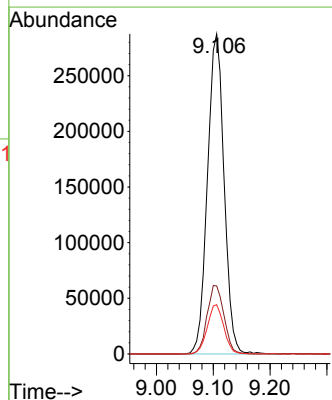
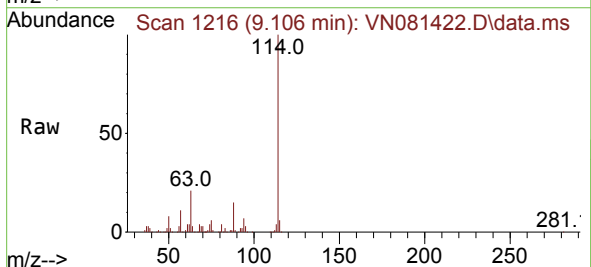
Tgt Ion: 114 Resp: 582069

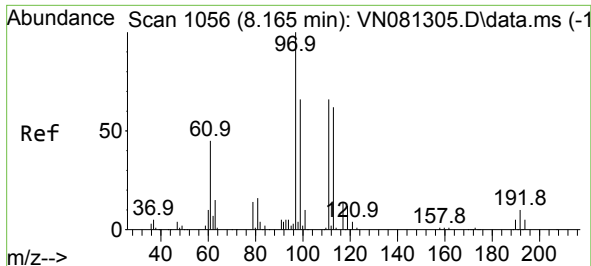
Ion Ratio Lower Upper

114 100

63 21.2 0.0 48.0

88 15.4 0.0 34.8

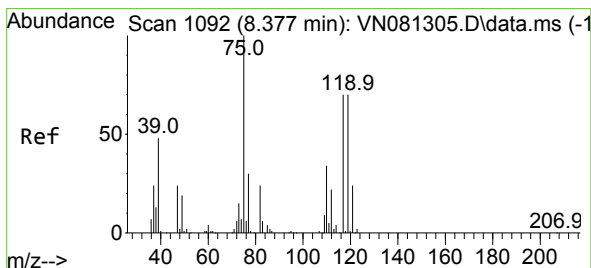
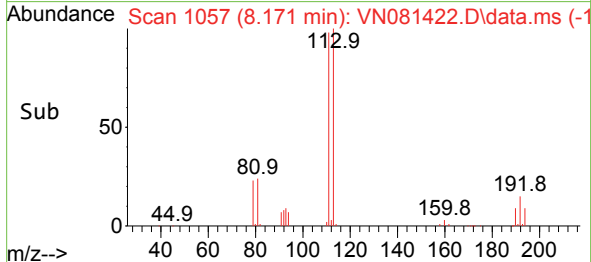
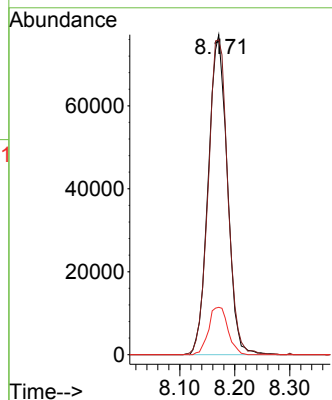
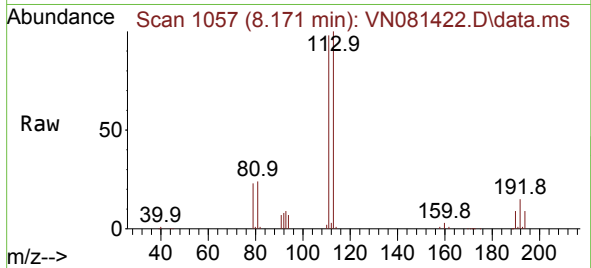




#35  
Dibromofluoromethane  
Concen: 51.949 ug/l  
RT: 8.171 min Scan# 1056  
Delta R.T. 0.006 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

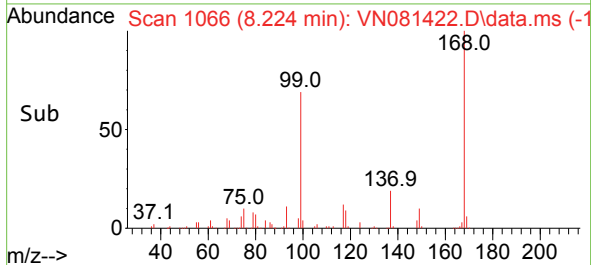
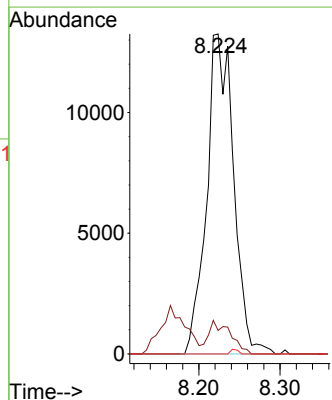
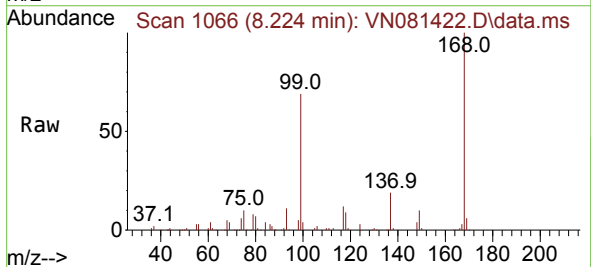
Instrument :  
MSVOA\_N  
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FB-3-14-24

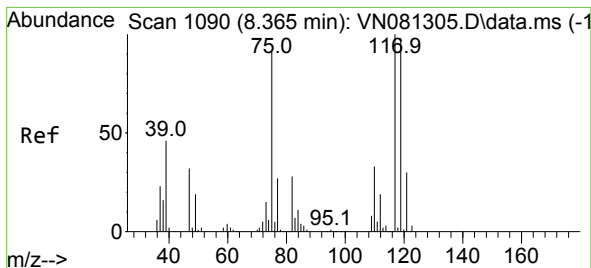
Tgt Ion:113 Resp: 185258  
Ion Ratio Lower Upper  
113 100  
111 101.4 82.2 123.4  
192 15.1 12.5 18.7



#36  
1,1-Dichloropropene  
Concen: 5.320 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.153 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

Tgt Ion: 75 Resp: 30607  
Ion Ratio Lower Upper  
75 100  
110 8.6 16.0 48.0#  
77 0.0 25.8 38.6#





#38

Carbon Tetrachloride

Concen: 6.366 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN081422.D

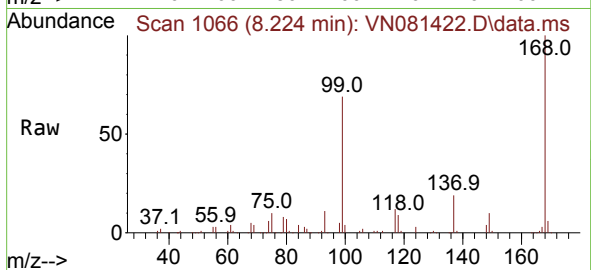
Acq: 14 Mar 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

FB-3-14-24



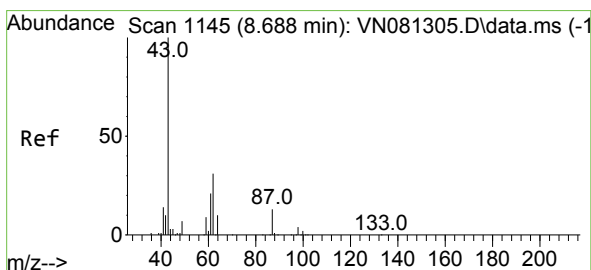
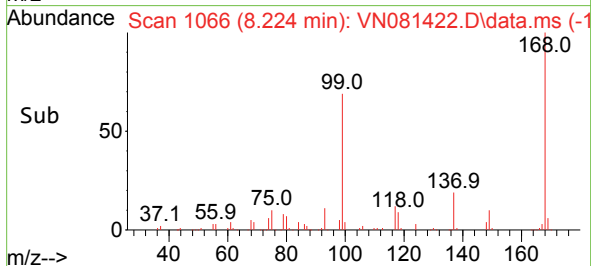
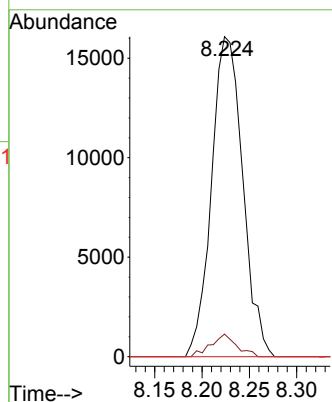
Tgt Ion:117 Resp: 36859

Ion Ratio Lower Upper

117 100

119 7.0 73.4 110.2#

121 0.0 24.4 36.6#



#43

Isopropyl Acetate

Concen: 0.363 ug/l

RT: 8.712 min Scan# 1149

Delta R.T. 0.024 min

Lab File: VN081422.D

Acq: 14 Mar 2024 20:05

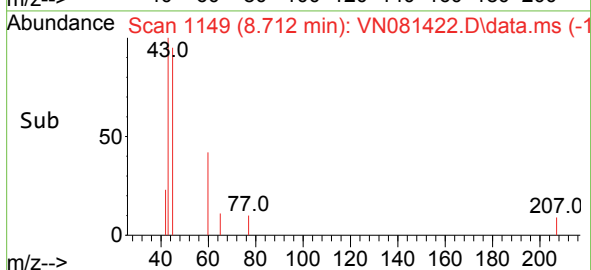
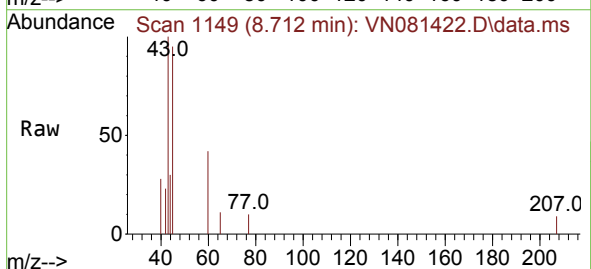
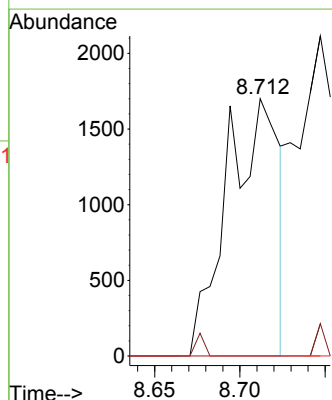
Tgt Ion: 43 Resp: 3573

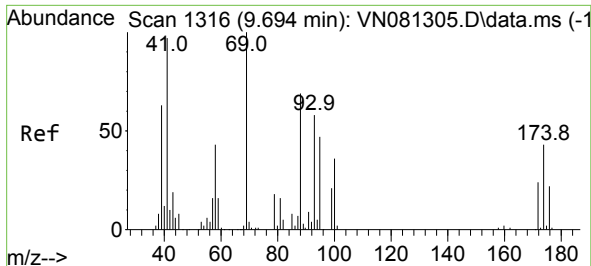
Ion Ratio Lower Upper

43 100

61 0.0 19.9 29.9#

87 0.0 9.0 13.6#





#49

1,4-Dioxane

Concen: 0.772 ug/l

RT: 9.700 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN081422.D

Acq: 14 Mar 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

FB-3-14-24

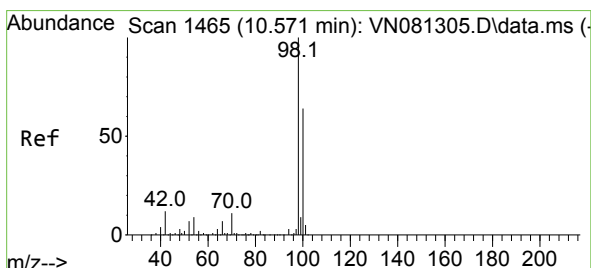
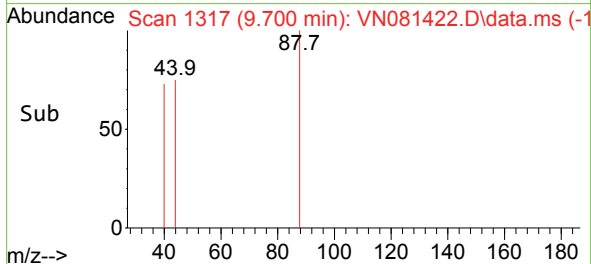
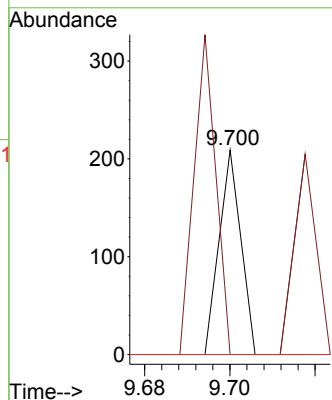
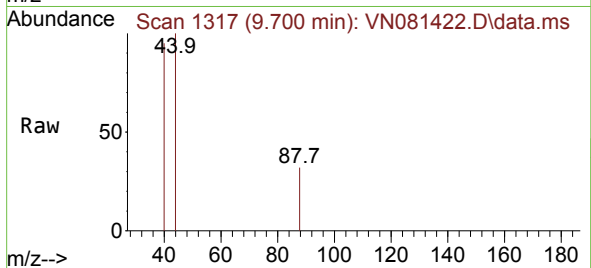
Tgt Ion: 88 Resp: 74

Ion Ratio Lower Upper

88 100

43 155.4 30.1 45.1#

58 0.0 63.9 95.9#



#50

Toluene-d8

Concen: 52.027 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN081422.D

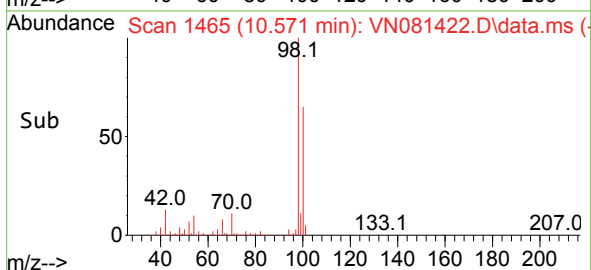
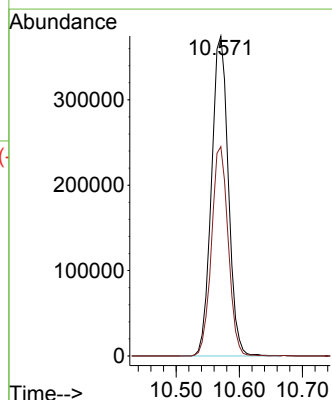
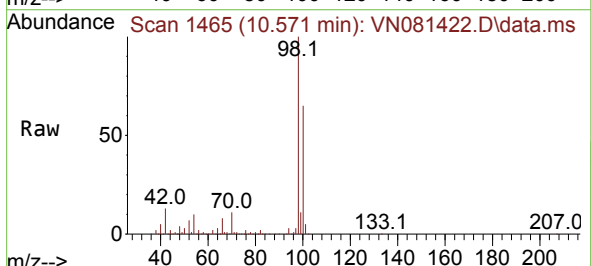
Acq: 14 Mar 2024 20:05

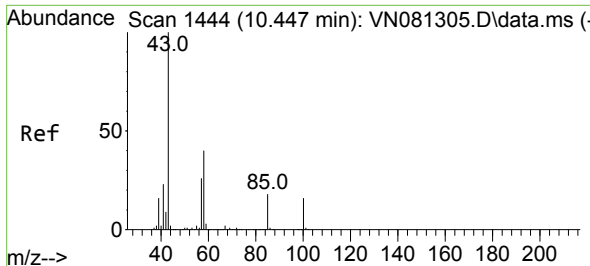
Tgt Ion: 98 Resp: 693580

Ion Ratio Lower Upper

98 100

100 64.8 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 0.609 ug/l

RT: 10.571 min Scan# 1444

Delta R.T. 0.123 min

Lab File: VN081422.D

Acq: 14 Mar 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

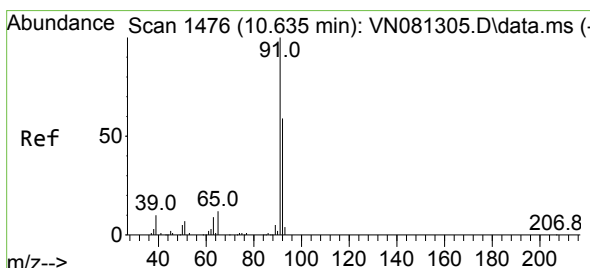
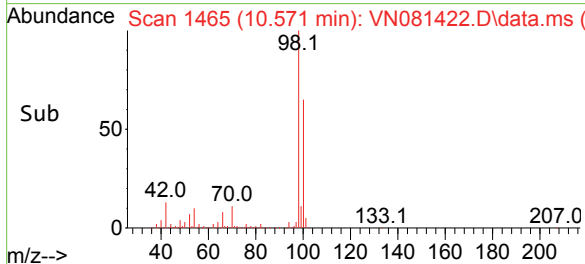
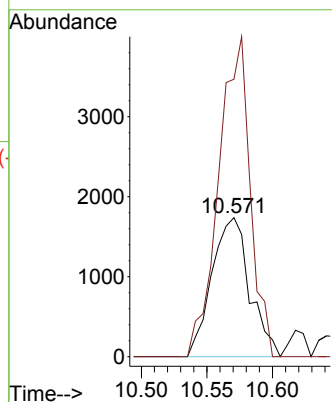
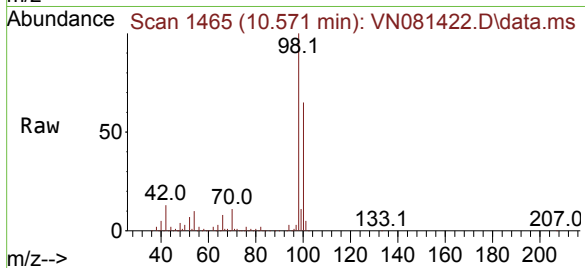
FB-3-14-24

Tgt Ion: 43 Resp: 3481

Ion Ratio Lower Upper

43 100

58 192.8 29.4 44.0#



#52

Toluene

Concen: 1.622 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.006 min

Lab File: VN081422.D

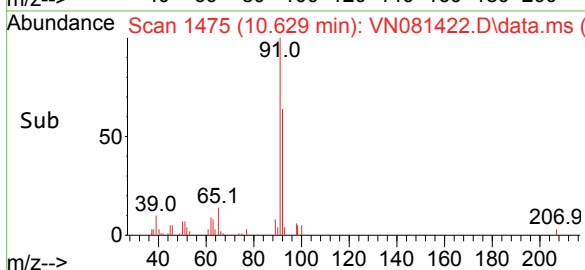
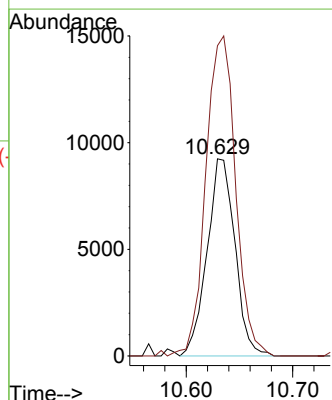
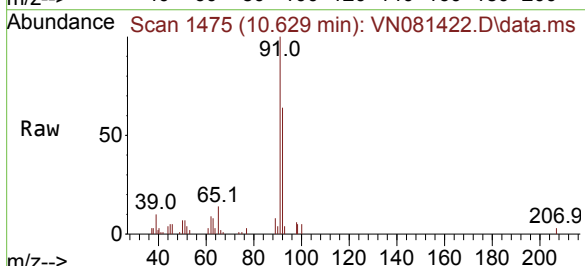
Acq: 14 Mar 2024 20:05

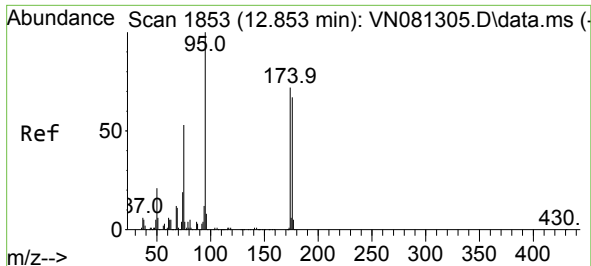
Tgt Ion: 92 Resp: 16827

Ion Ratio Lower Upper

92 100

91 173.0 139.4 209.0

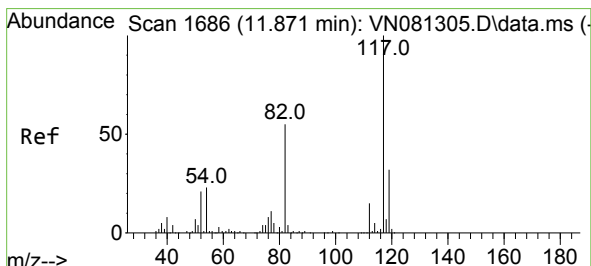
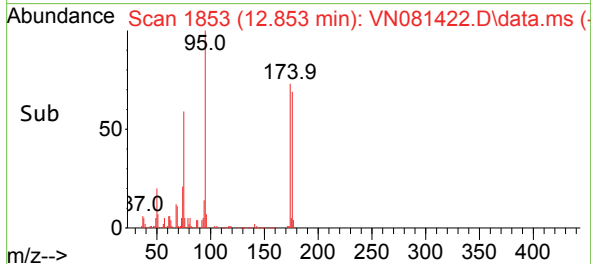
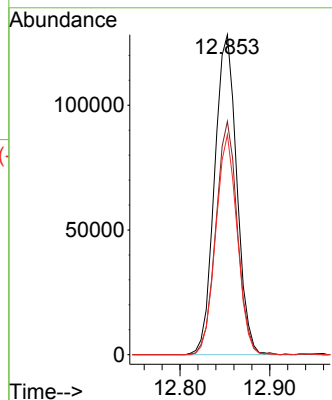
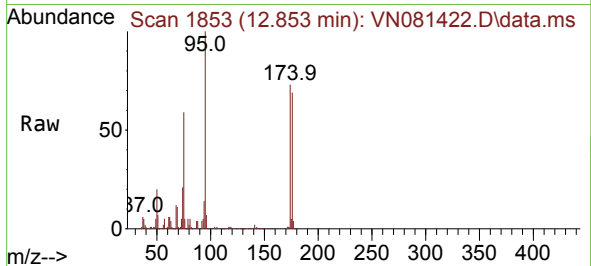




#62  
4-Bromofluorobenzene  
Concen: 46.733 ug/l  
RT: 12.853 min Scan# 1853  
Delta R.T. -0.000 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

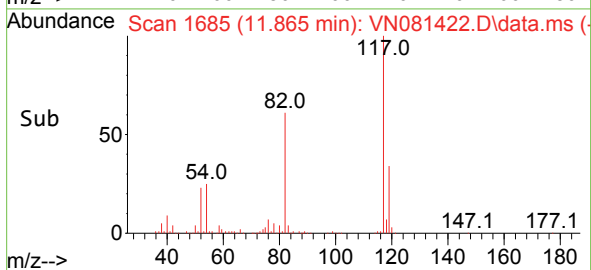
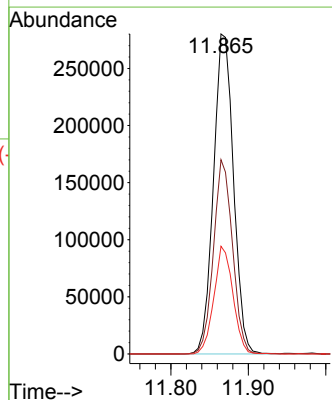
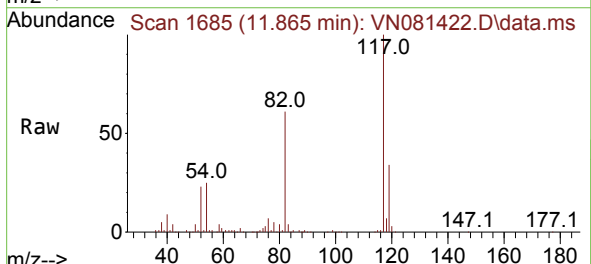
Instrument :  
MSVOA\_N  
ClientSampleId :  
FB-3-14-24

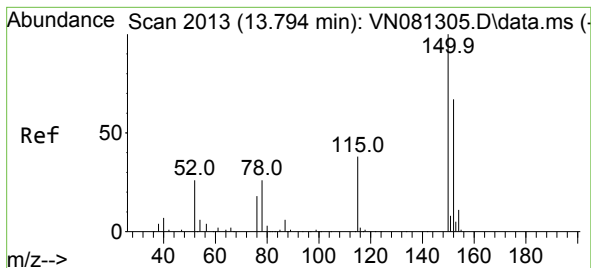
Tgt Ion: 95 Resp: 220194  
Ion Ratio Lower Upper  
95 100  
174 71.0 0.0 120.4  
176 66.5 0.0 121.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. -0.006 min  
Lab File: VN081422.D  
Acq: 14 Mar 2024 20:05

Tgt Ion: 117 Resp: 503941  
Ion Ratio Lower Upper  
117 100  
82 60.7 52.7 79.1  
119 33.7 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. -0.000 min

Lab File: VN081422.D

Acq: 14 Mar 2024 20:05

Instrument :

MSVOA\_N

ClientSampleId :

FB-3-14-24

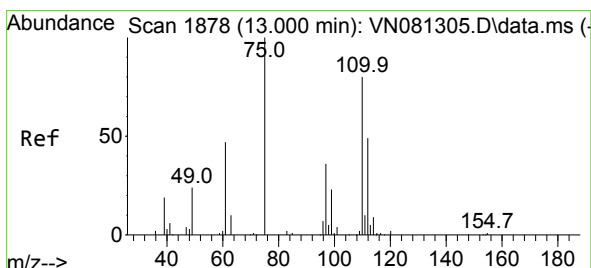
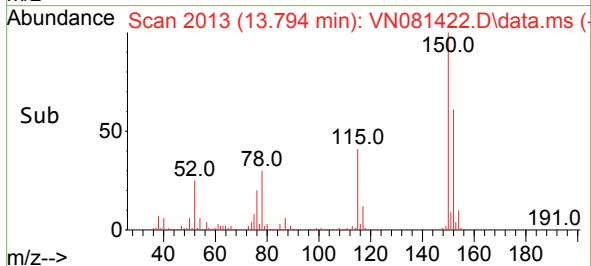
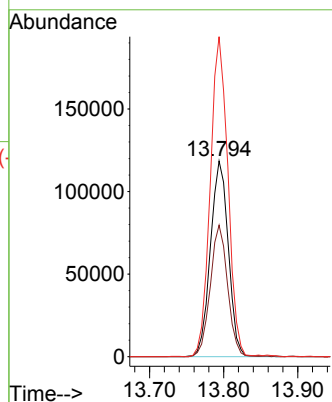
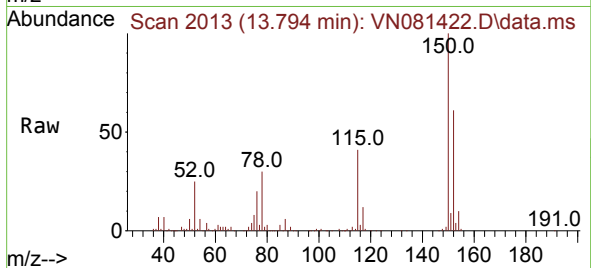
Tgt Ion:152 Resp: 198825

Ion Ratio Lower Upper

152 100

115 65.0 32.3 96.8

150 160.5 0.0 339.8



#76

1,2,3-Trichloropropane

Concen: 26.353 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN081422.D

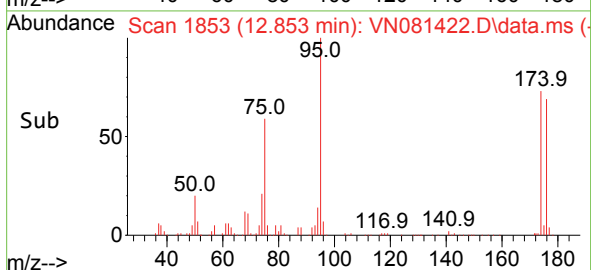
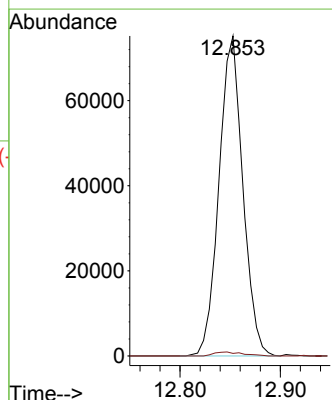
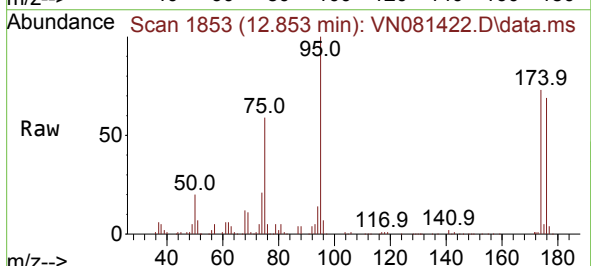
Acq: 14 Mar 2024 20:05

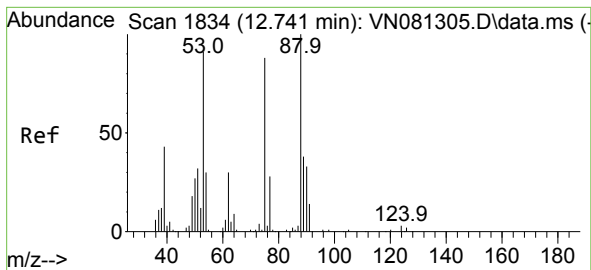
Tgt Ion: 75 Resp: 123758

Ion Ratio Lower Upper

75 100

77 1.5 91.0 272.8#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.546 ug/l  
 RT: 12.853 min Scan# 11  
 Delta R.T. 0.112 min  
 Lab File: VN081422.D  
 Acq: 14 Mar 2024 20:05

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FB-3-14-24

Tgt Ion: 75 Resp: 123758  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 71.4 107.2#  
 89 0.0 33.4 50.0#

