

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042423\  
 Data File : VN077446.D  
 Acq On : 25 Apr 2023 04:28  
 Operator : JC\MD  
 Sample : VN0424WBL02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0424WBL02

Quant Time: Apr 25 08:38:55 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N042423W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 25 02:50:59 2023  
 Response via : Initial Calibration

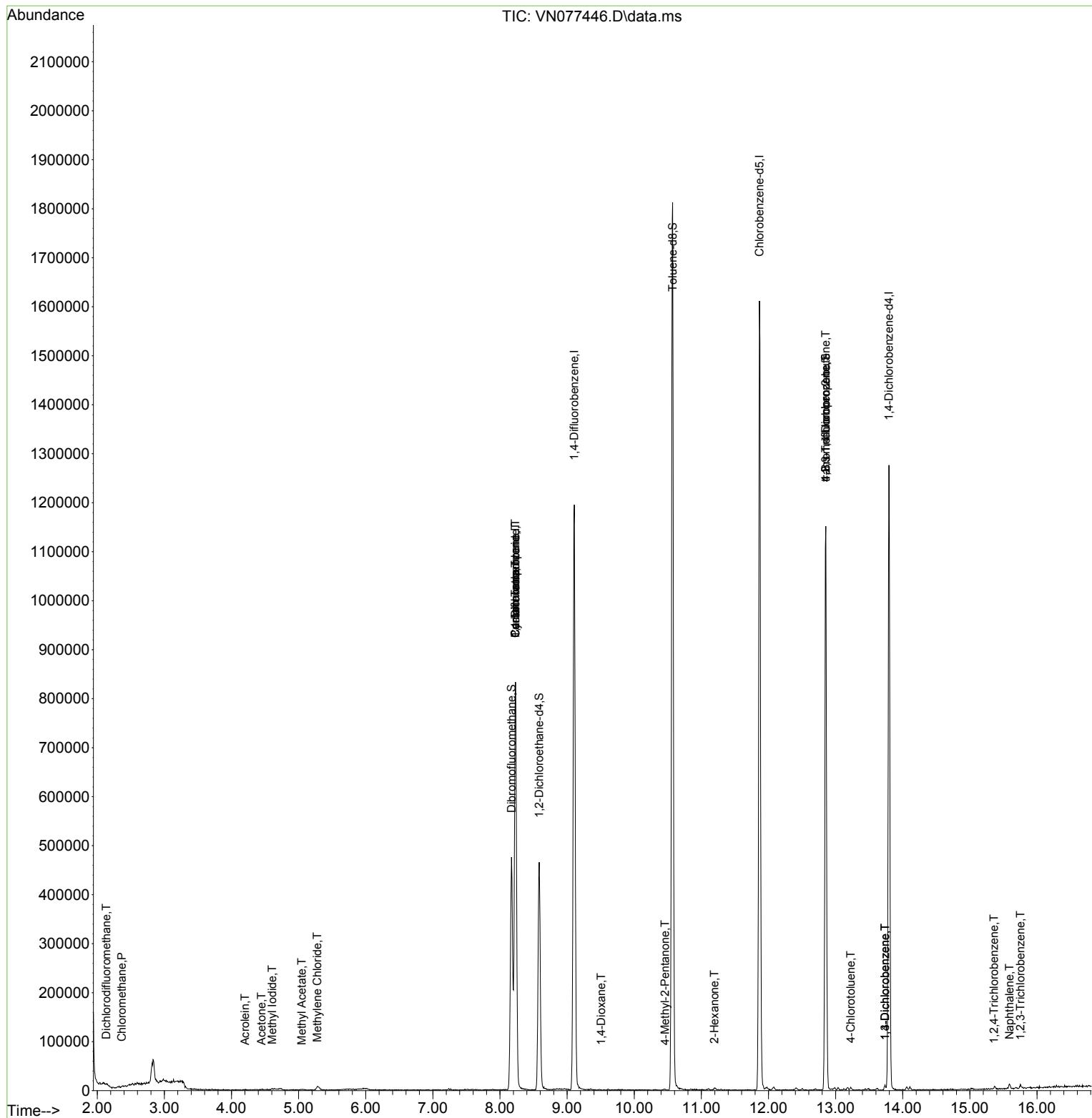
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 8.231          | 168  | 601364     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.107          | 114  | 1093209    | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.866         | 117  | 975045     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795         | 152  | 335357     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.584          | 65   | 378720     | 48.262   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 96.520%  |        |          |
| 35) Dibromofluoromethane      | 8.172          | 113  | 335157     | 51.008   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 102.020% |        |          |
| 50) Toluene-d8                | 10.572         | 98   | 1348857    | 53.563   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 107.120% |        |          |
| 62) 4-Bromofluorobenzene      | 12.854         | 95   | 412471     | 50.062   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 100.120% |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 2) Dichlorodifluoromethane    | 2.137          | 85   | 80         | 0.320    | ug/l # | 7        |
| 3) Chloromethane              | 2.366          | 50   | 1377       | 0.228    | ug/l   | 97       |
| 10) Methyl Iodide             | 4.607          | 142  | 2126       | 0.252    | ug/l # | 75       |
| 13) Acrolein                  | 4.202          | 56   | 581        | 0.464    | ug/l # | 59       |
| 16) Acetone                   | 4.449          | 43   | 1055       | 0.423    | ug/l # | 40       |
| 18) Methyl Acetate            | 5.049          | 43   | 2404       | 0.249    | ug/l # | 58       |
| 20) Methylene Chloride        | 5.278          | 84   | 6594       | 0.833    | ug/l # | 66       |
| 31) Cyclohexane               | 8.231          | 56   | 13973      | 1.257    | ug/l # | 11       |
| 36) 1,1-Dichloropropene       | 8.231          | 75   | 50596      | 5.330    | ug/l # | 47       |
| 38) Carbon Tetrachloride      | 8.231          | 117  | 68368      | 6.528    | ug/l # | 16       |
| 49) 1,4-Dioxane               | 9.507          | 88   | 72         | 0.505    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.460         | 43   | 1586       | 0.217    | ug/l # | 31       |
| 59) 2-Hexanone                | 11.195         | 43   | 3511       | 0.660    | ug/l   | 83       |
| 76) 1,2,3-Trichloropropane    | 12.854         | 75   | 221196     | 28.364   | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.854         | 75   | 221196     | 80.134   | ug/l # | 15       |
| 82) 4-Chlorotoluene           | 13.225         | 91   | 4424       | 0.223    | ug/l   | 79       |
| 87) 1,3-Dichlorobenzene       | 13.736         | 146  | 2769       | 0.230    | ug/l   | 92       |
| 88) 1,4-Dichlorobenzene       | 13.736         | 146  | 2769       | 0.233    | ug/l   | 95       |
| 93) 1,2,4-Trichlorobenzene    | 15.360         | 180  | 2041       | 1.630    | ug/l   | 87       |
| 95) Naphthalene               | 15.589         | 128  | 8353       | 2.062    | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 15.754         | 180  | 1886       | 1.317    | ug/l   | 86       |
| -----                         |                |      |            |          |        |          |

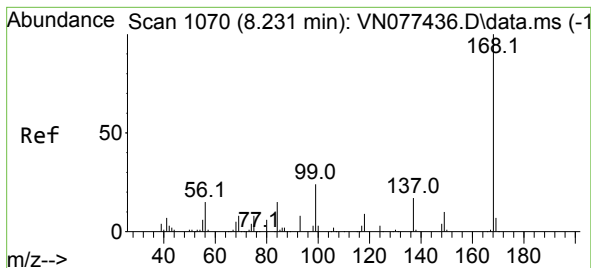
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042423\  
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QLast Update : Tue Apr 25 02:50:59 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077446.D

Acq: 25 Apr 2023 04:28

Instrument :

MSVOA\_N

ClientSampleId :

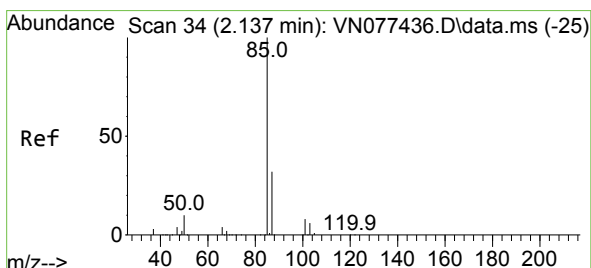
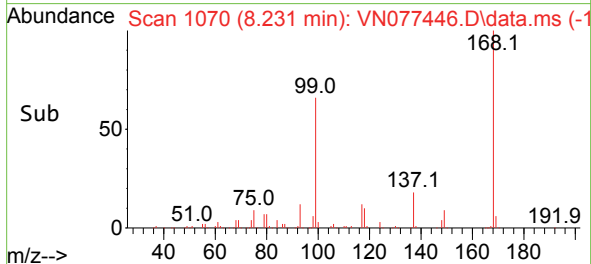
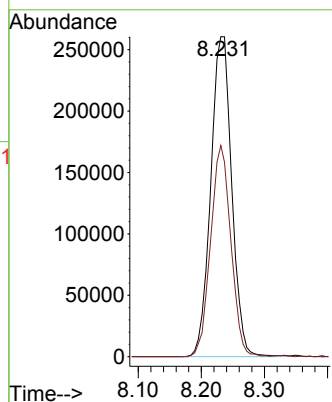
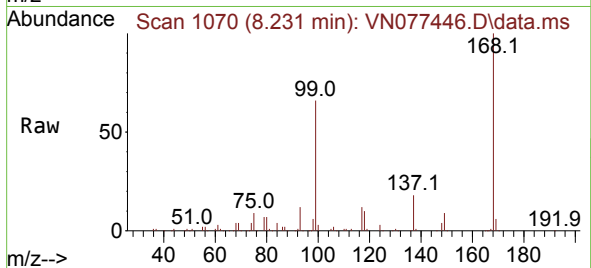
VN0424WBL02

Tgt Ion:168 Resp: 601364

Ion Ratio Lower Upper

168 100

99 66.0 53.0 79.6



#2

Dichlorodifluoromethane

Concen: 0.320 ug/l

RT: 2.137 min Scan# 34

Delta R.T. -0.000 min

Lab File: VN077446.D

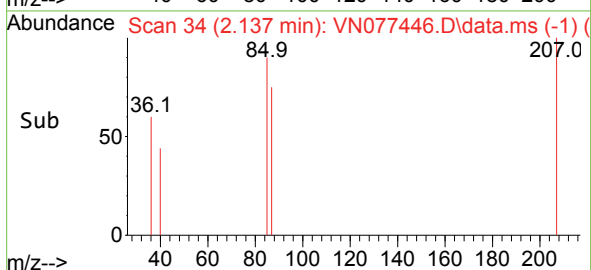
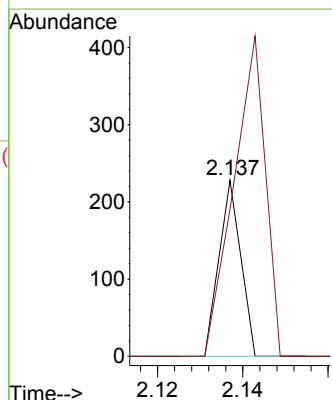
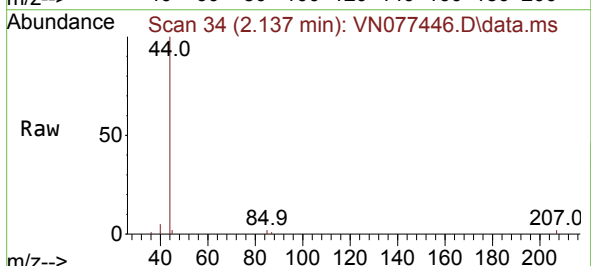
Acq: 25 Apr 2023 04:28

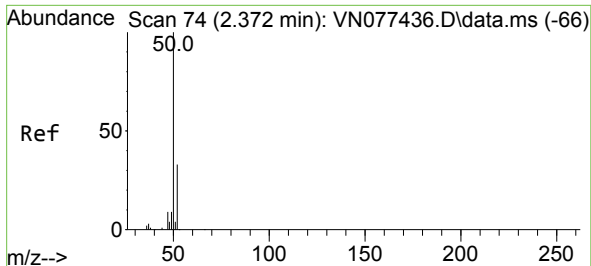
Tgt Ion: 85 Resp: 80

Ion Ratio Lower Upper

85 100

87 83.3 15.8 47.4#

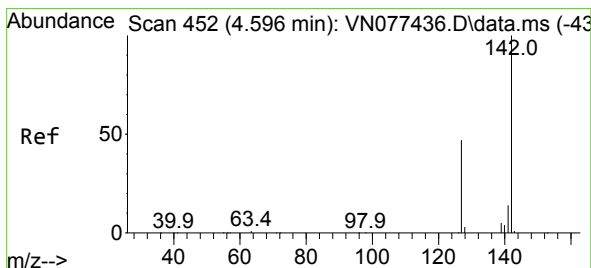
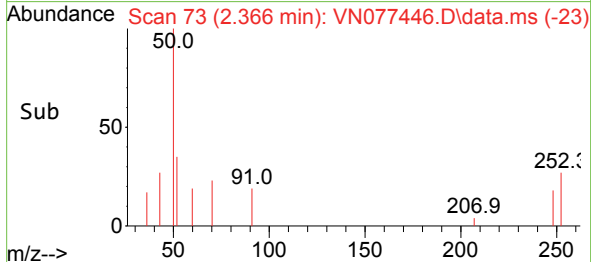
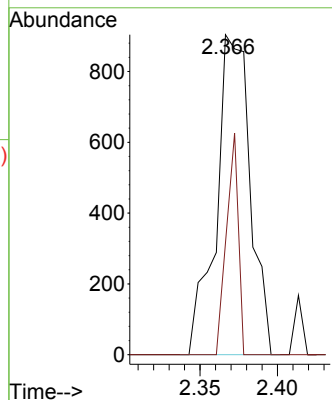
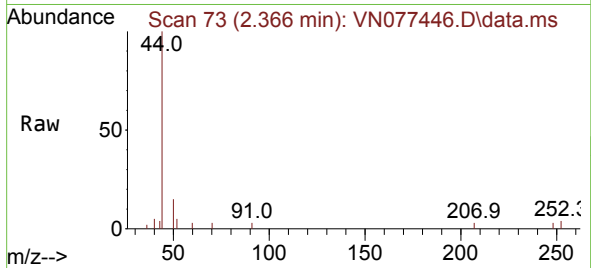




#3  
Chloromethane  
Concen: 0.228 ug/l  
RT: 2.366 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

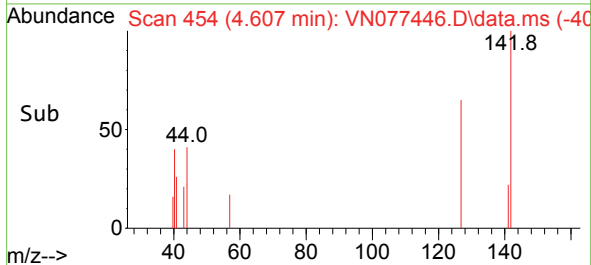
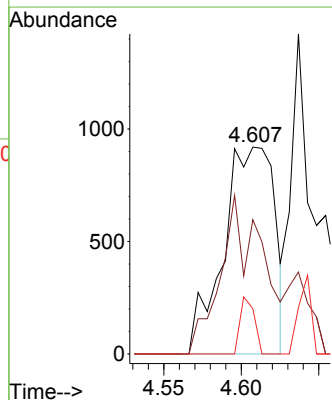
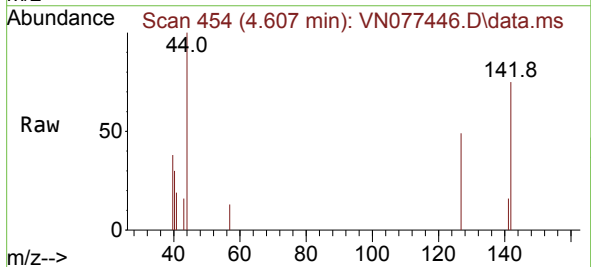
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0424WBL02

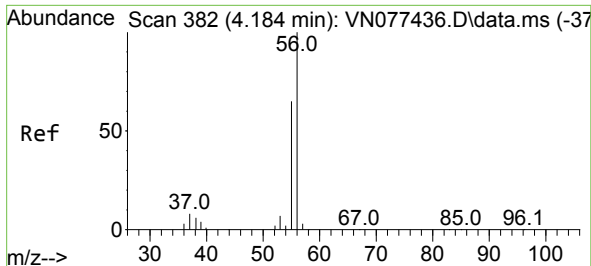
Tgt Ion: 50 Resp: 1377  
Ion Ratio Lower Upper  
50 100  
52 35.0 26.5 39.7



#10  
Methyl Iodide  
Concen: 0.252 ug/l  
RT: 4.607 min Scan# 454  
Delta R.T. 0.012 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

Tgt Ion: 142 Resp: 2126  
Ion Ratio Lower Upper  
142 100  
127 64.9 37.6 56.4#  
141 21.8 11.4 17.0#





#13

Acrolein

Concen: 0.464 ug/l

RT: 4.202 min Scan# 385

Delta R.T. 0.018 min

Lab File: VN077446.D

Acq: 25 Apr 2023 04:28

Instrument :

MSVOA\_N

ClientSampleId :

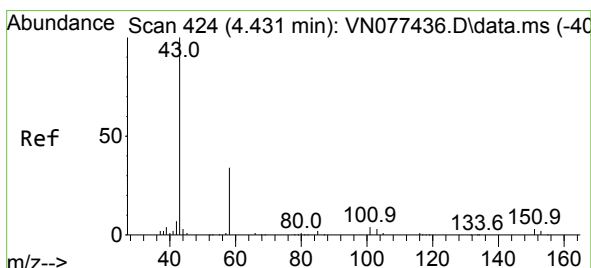
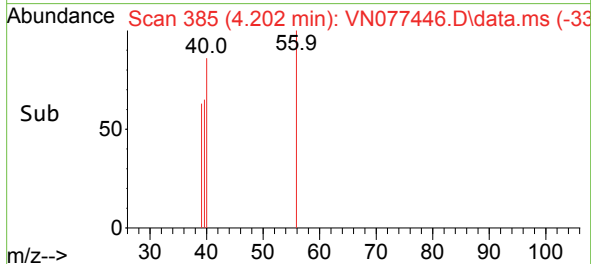
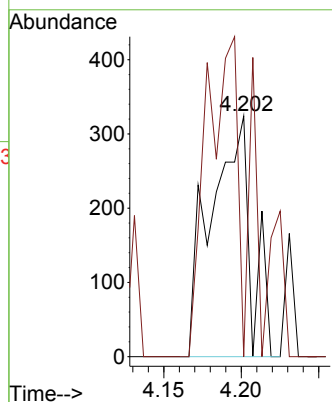
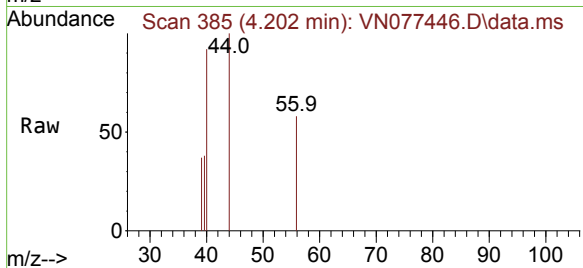
VN0424WBL02

Tgt Ion: 56 Resp: 581

Ion Ratio Lower Upper

56 100

55 101.2 54.5 81.7#



#16

Acetone

Concen: 0.423 ug/l

RT: 4.449 min Scan# 427

Delta R.T. 0.018 min

Lab File: VN077446.D

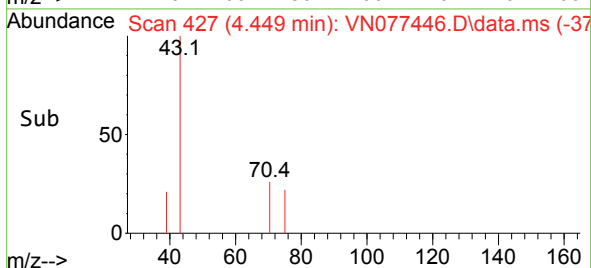
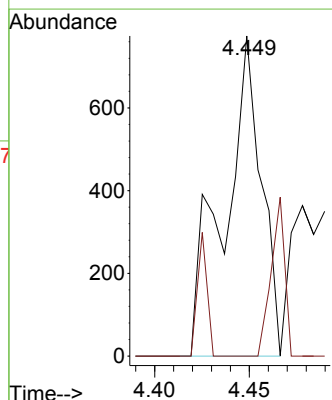
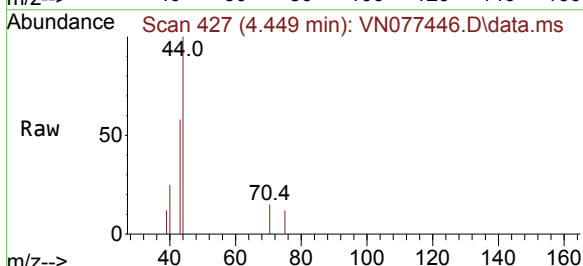
Acq: 25 Apr 2023 04:28

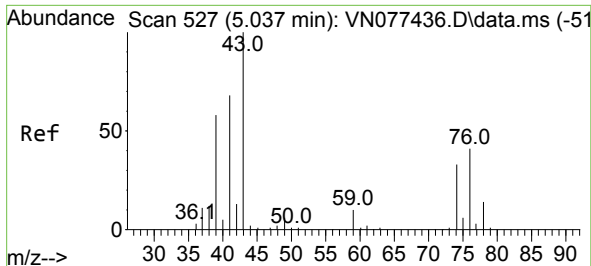
Tgt Ion: 43 Resp: 1055

Ion Ratio Lower Upper

43 100

58 0.0 28.0 42.0#

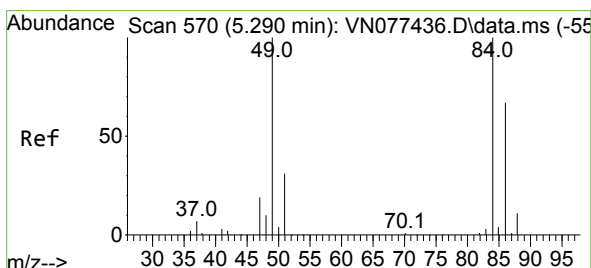
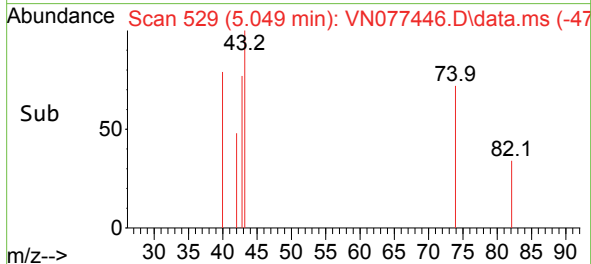
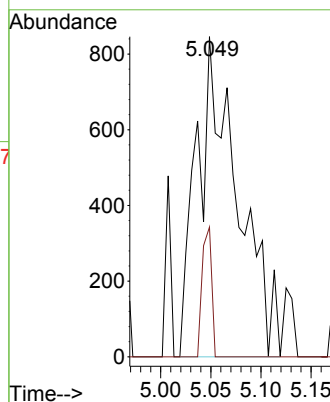
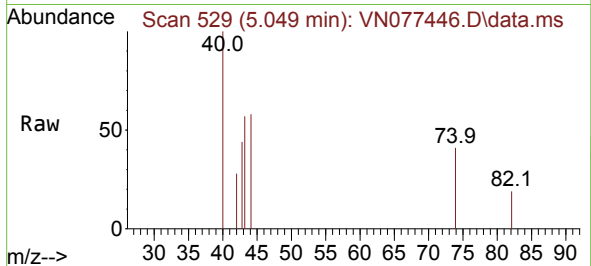




#18  
Methyl Acetate  
Concen: 0.249 ug/l  
RT: 5.049 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

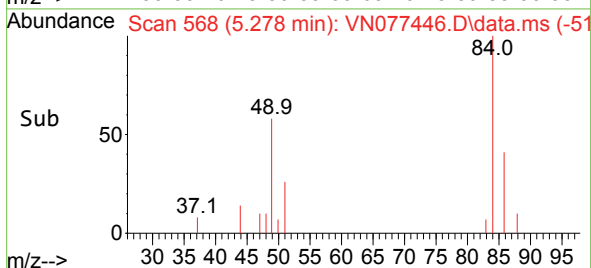
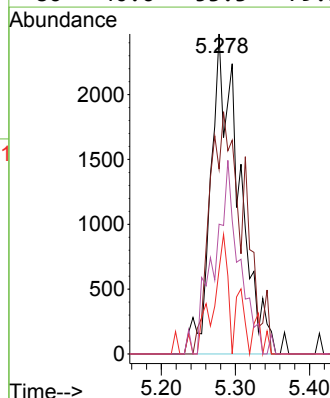
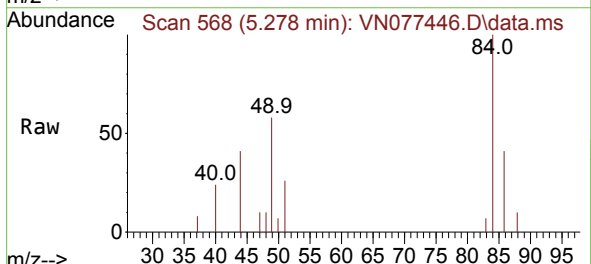
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ClientSampleId :  
VN0424WBL02

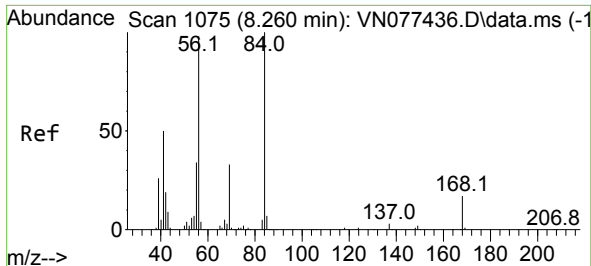
Tgt Ion: 43 Resp: 2404  
Ion Ratio Lower Upper  
43 100  
74 9.4 26.2 39.4#



#20  
Methylene Chloride  
Concen: 0.833 ug/l  
RT: 5.278 min Scan# 568  
Delta R.T. -0.012 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

Tgt Ion: 84 Resp: 6594  
Ion Ratio Lower Upper  
84 100  
49 57.8 79.7 119.5#  
51 26.3 25.2 37.8  
86 40.6 53.3 79.9#

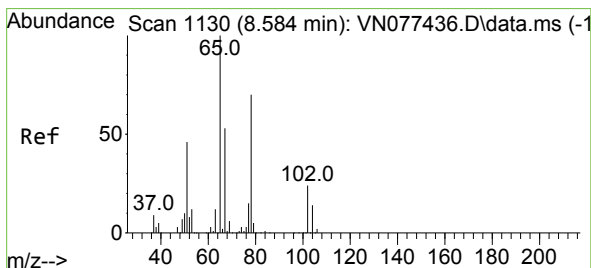
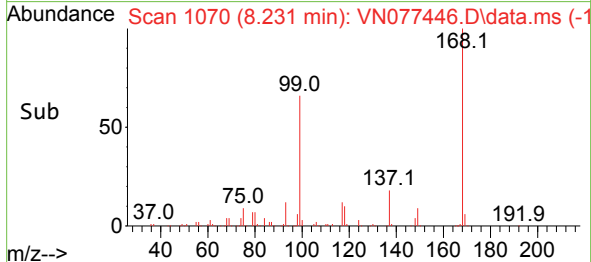
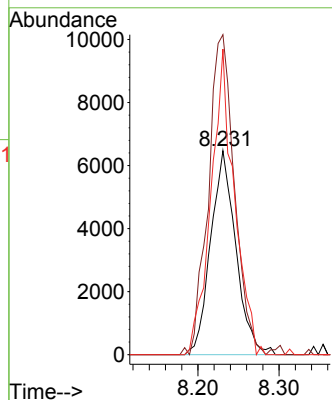
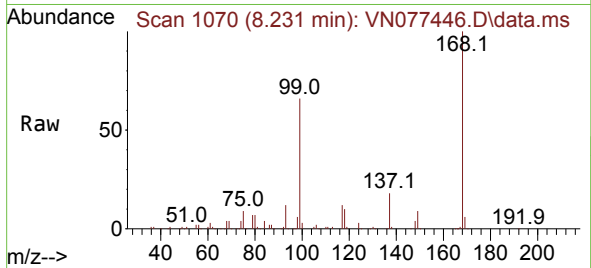




#31  
Cyclohexane  
Concen: 1.257 ug/l  
RT: 8.231 min Scan# 1075  
Delta R.T. -0.029 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

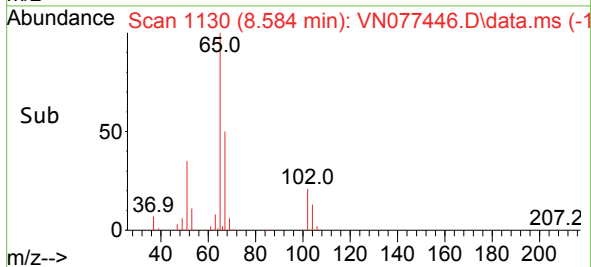
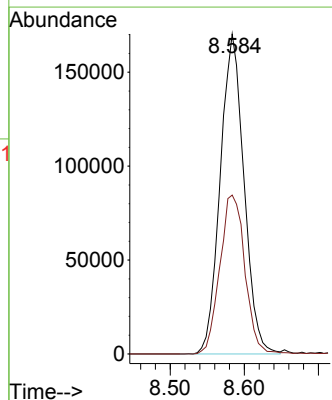
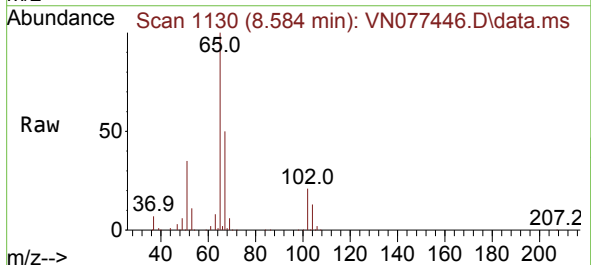
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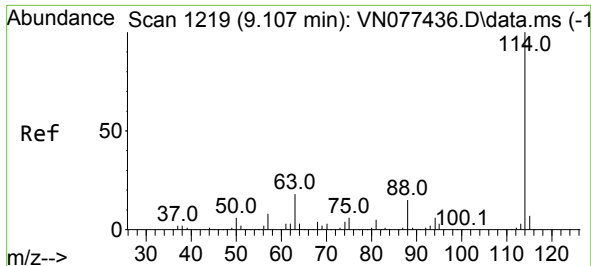
Tgt Ion: 56 Resp: 13973  
Ion Ratio Lower Upper  
56 100  
69 156.9 26.8 40.2#  
84 149.8 81.8 122.6#



#33  
1,2-Dichloroethane-d4  
Concen: 48.262 ug/l  
RT: 8.584 min Scan# 1130  
Delta R.T. 0.000 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

Tgt Ion: 65 Resp: 378720  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN077446.D

Acq: 25 Apr 2023 04:28

Instrument :

MSVOA\_N

ClientSampleId :

VN0424WBL02

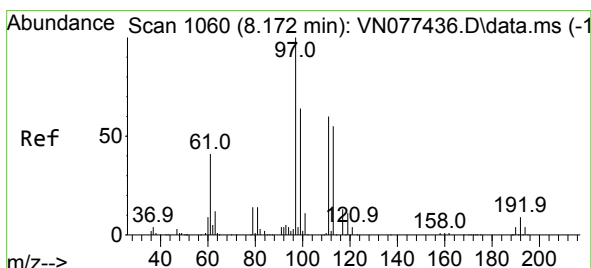
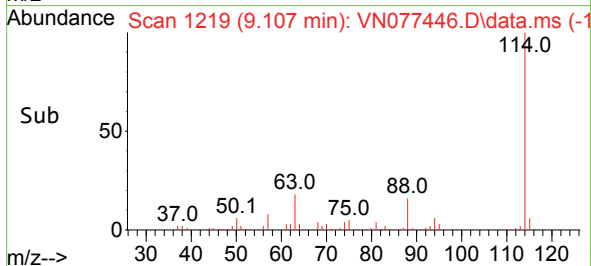
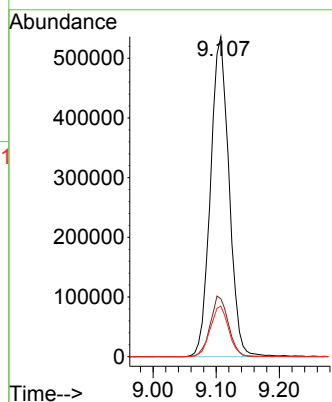
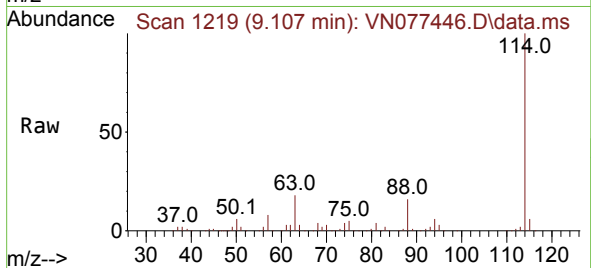
Tgt Ion:114 Resp: 1093209

Ion Ratio Lower Upper

114 100

63 18.1 0.0 36.4

88 15.8 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.008 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077446.D

Acq: 25 Apr 2023 04:28

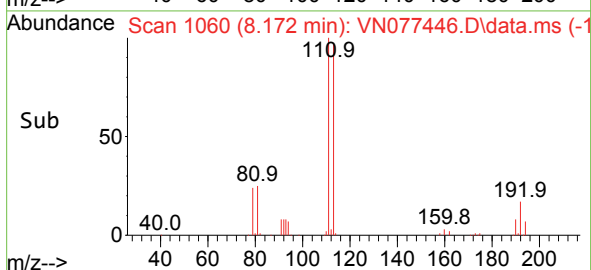
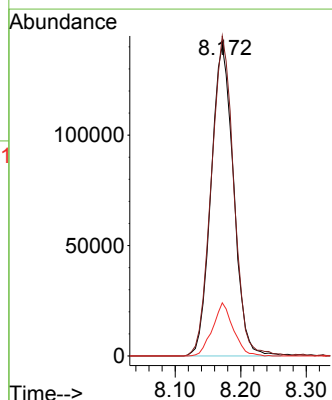
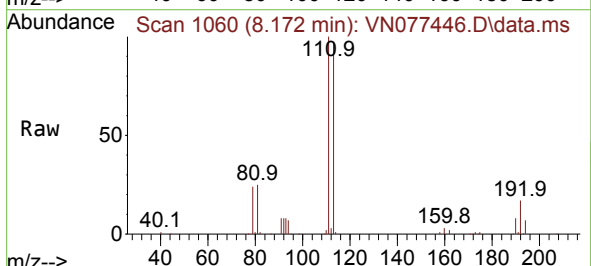
Tgt Ion:113 Resp: 335157

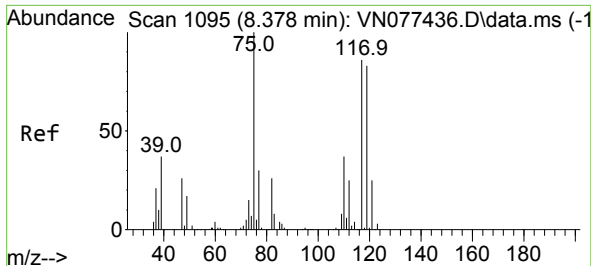
Ion Ratio Lower Upper

113 100

111 102.9 82.6 123.8

192 15.7 12.7 19.1

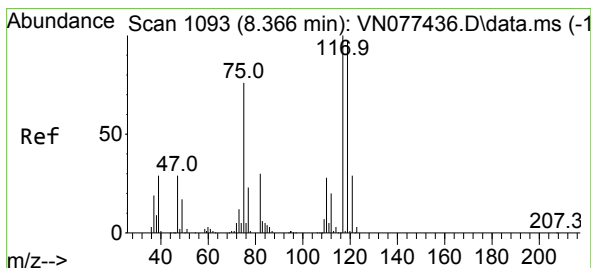
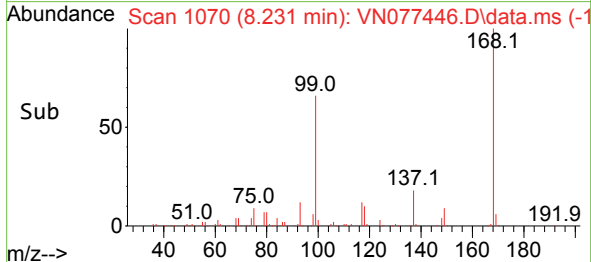
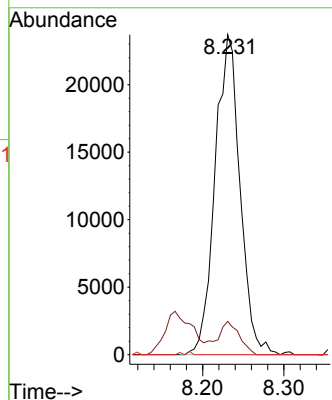
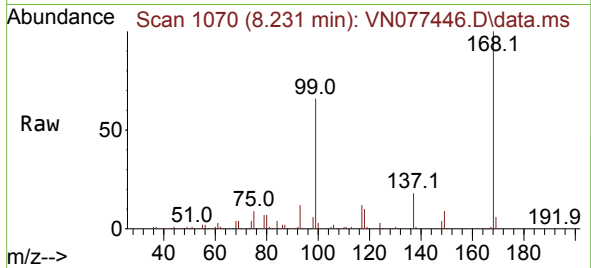




#36  
 1,1-Dichloropropene  
 Concen: 5.330 ug/l  
 RT: 8.231 min Scan# 1070  
 Delta R.T. -0.147 min  
 Lab File: VN077446.D  
 Acq: 25 Apr 2023 04:28

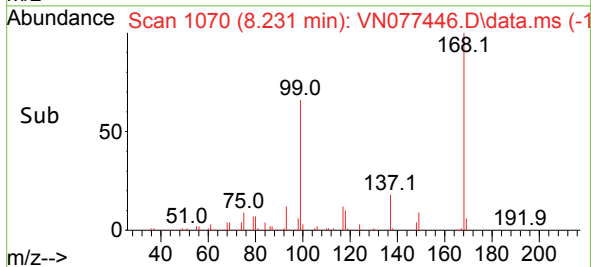
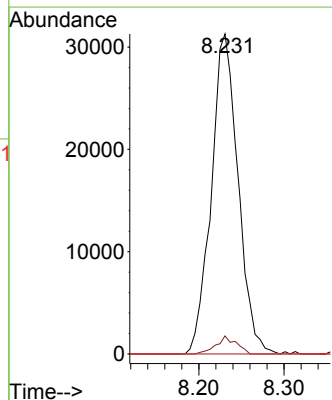
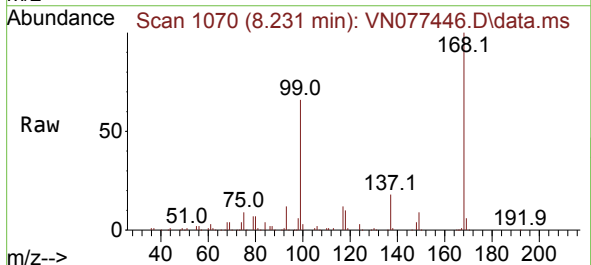
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0424WBL02

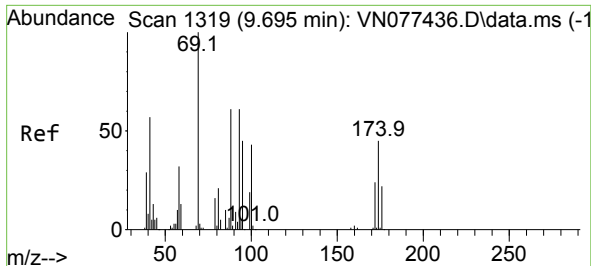
Tgt Ion: 75 Resp: 50596  
 Ion Ratio Lower Upper  
 75 100  
 110 7.9 19.1 57.3#  
 77 0.0 25.0 37.4#



#38  
 Carbon Tetrachloride  
 Concen: 6.528 ug/l  
 RT: 8.231 min Scan# 1070  
 Delta R.T. -0.135 min  
 Lab File: VN077446.D  
 Acq: 25 Apr 2023 04:28

Tgt Ion: 117 Resp: 68368  
 Ion Ratio Lower Upper  
 117 100  
 119 5.6 77.3 115.9#  
 121 0.0 23.3 34.9#





#49

1,4-Dioxane

Concen: 0.505 ug/l

RT: 9.507 min Scan# 1

Delta R.T. -0.188 min

Lab File: VN077446.D

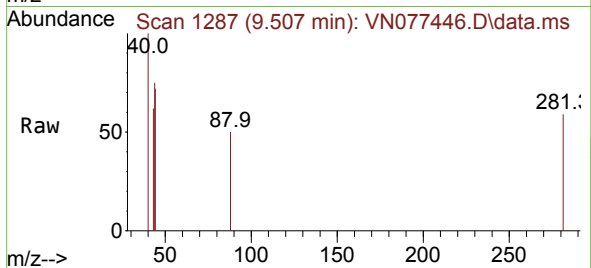
Acq: 25 Apr 2023 04:28

Instrument :

MSVOA\_N

ClientSampleId :

VN0424WBL02



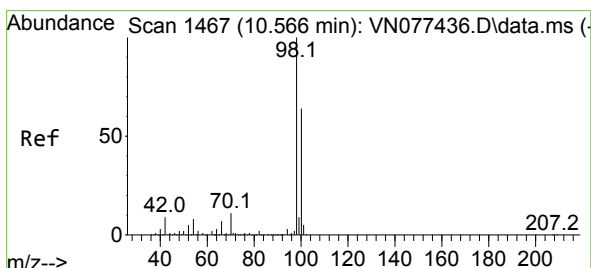
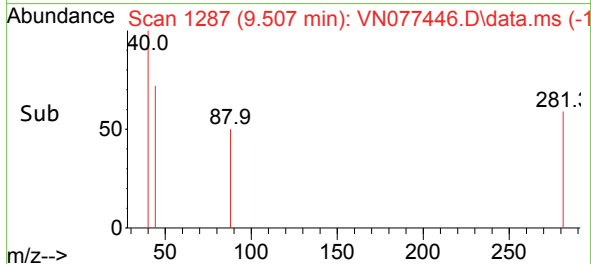
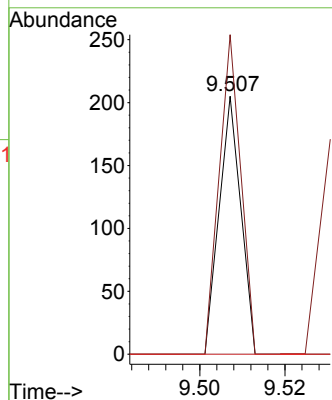
Tgt Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 125.0 17.0 25.6#

58 0.0 47.0 70.4#



#50

Toluene-d8

Concen: 53.563 ug/l

RT: 10.572 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN077446.D

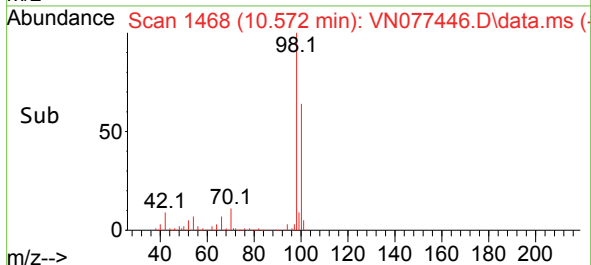
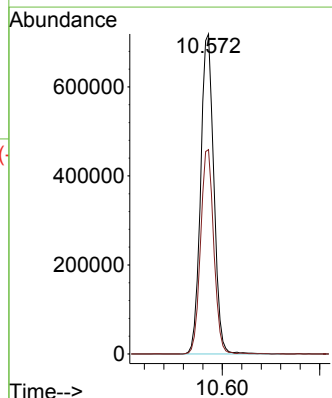
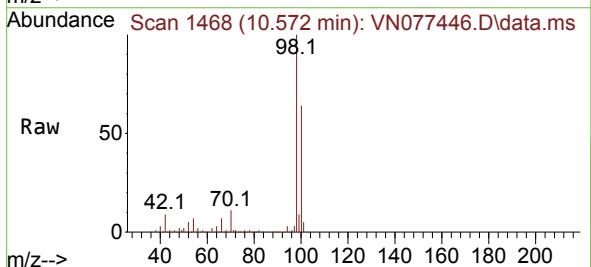
Acq: 25 Apr 2023 04:28

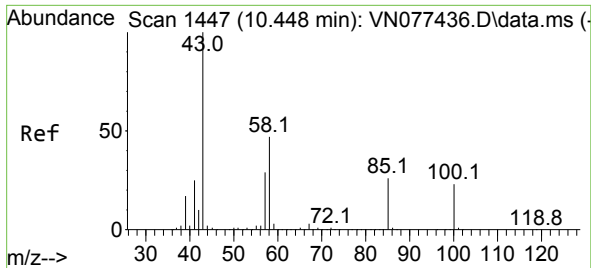
Tgt Ion: 98 Resp: 1348857

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0

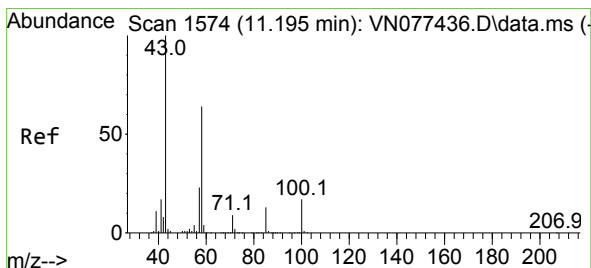
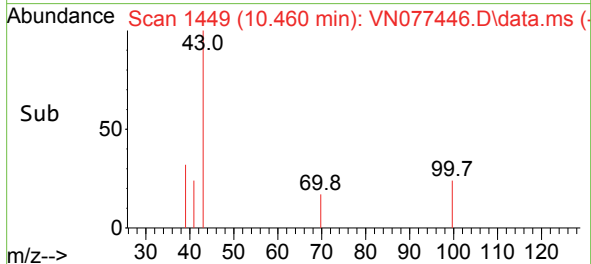
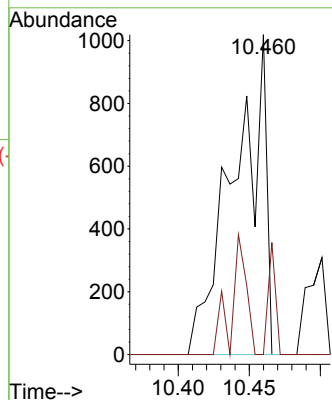
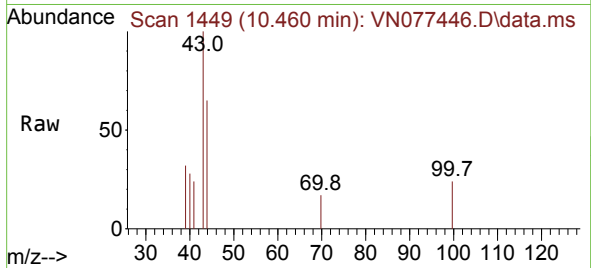




#51  
4-Methyl-2-Pentanone  
Concen: 0.217 ug/l  
RT: 10.460 min Scan# 1449  
Delta R.T. 0.012 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

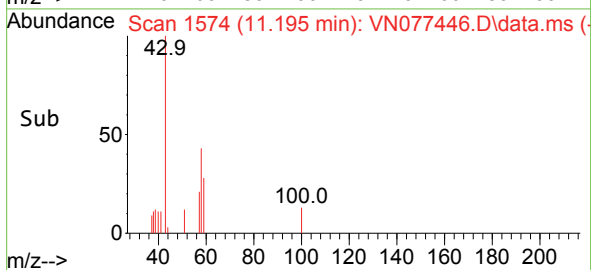
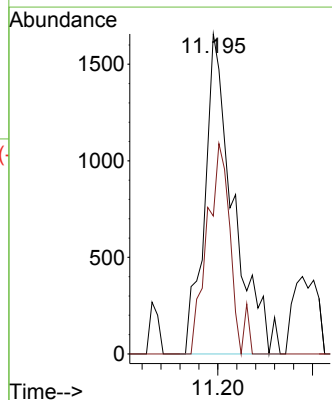
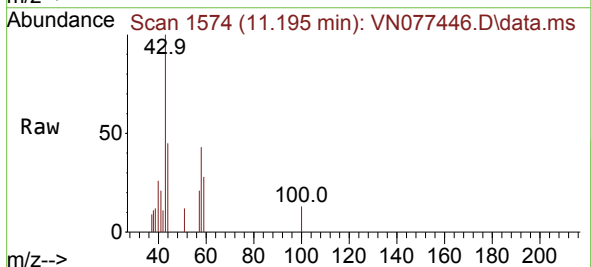
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0424WBL02

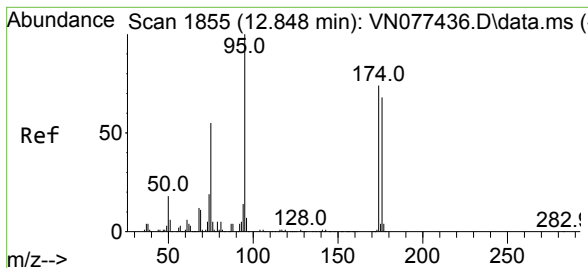
Tgt Ion: 43 Resp: 1586  
Ion Ratio Lower Upper  
43 100  
58 0.0 36.6 54.8#



#59  
2-Hexanone  
Concen: 0.660 ug/l  
RT: 11.195 min Scan# 1574  
Delta R.T. 0.000 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

Tgt Ion: 43 Resp: 3511  
Ion Ratio Lower Upper  
43 100  
58 50.4 31.7 95.1

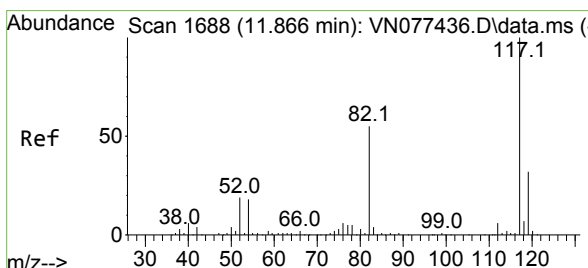
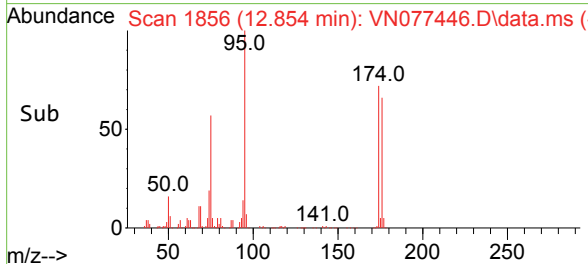
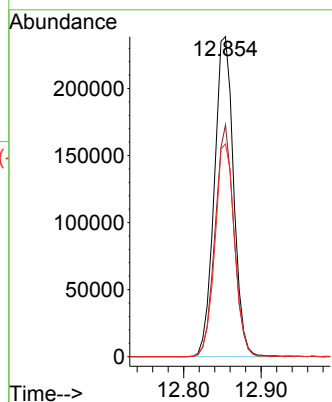
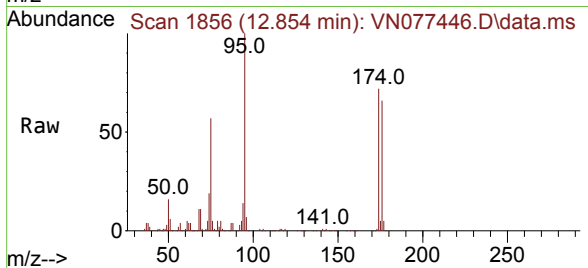




#62  
4-Bromofluorobenzene  
Concen: 50.062 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

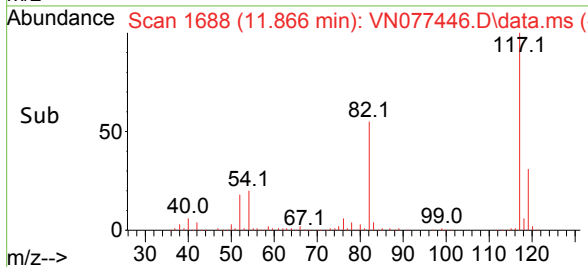
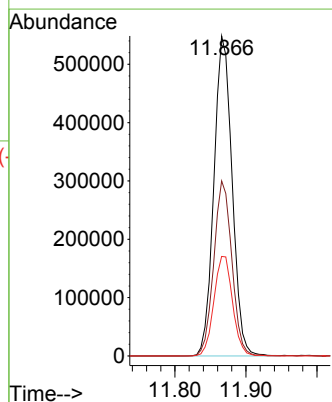
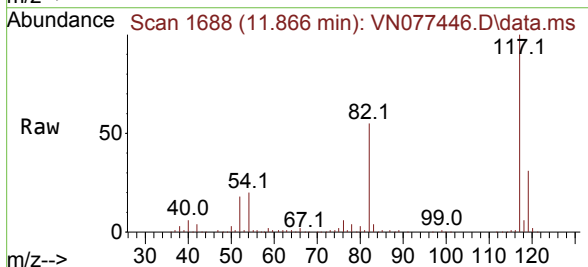
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0424WBL02

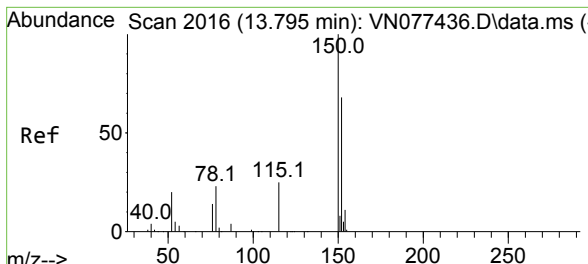
Tgt Ion: 95 Resp: 412471  
Ion Ratio Lower Upper  
95 100  
174 70.1 0.0 143.8  
176 67.5 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.866 min Scan# 1688  
Delta R.T. 0.000 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

Tgt Ion: 117 Resp: 975045  
Ion Ratio Lower Upper  
117 100  
82 54.7 44.0 66.0  
119 31.1 25.6 38.4

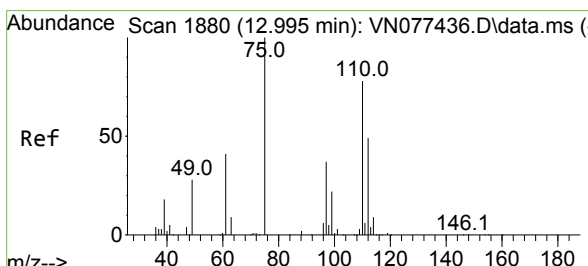
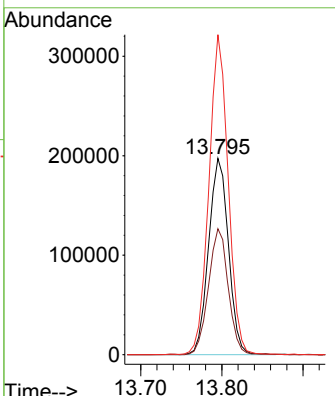
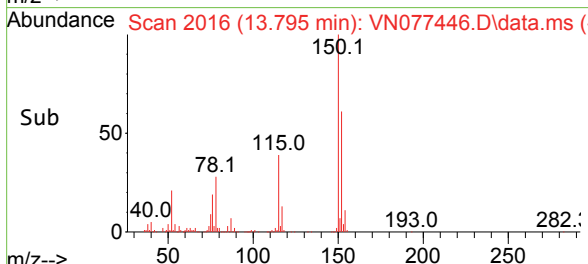
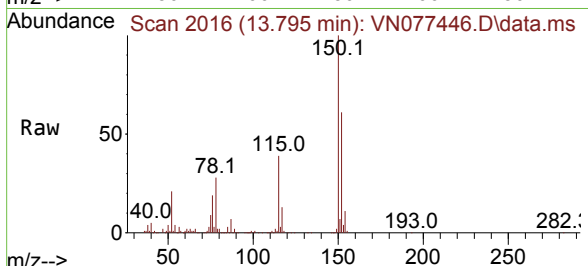




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.795 min Scan# 20  
 Delta R.T. 0.000 min  
 Lab File: VN077446.D  
 Acq: 25 Apr 2023 04:28

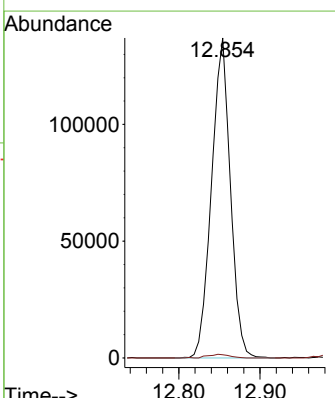
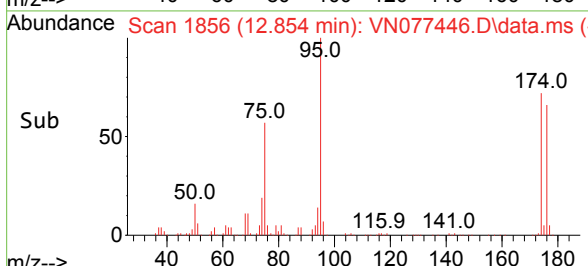
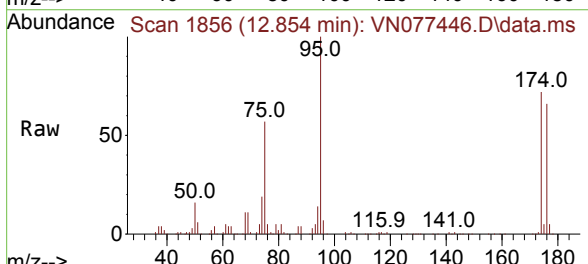
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0424WBL02

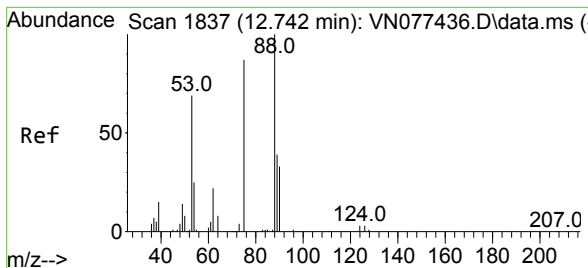
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 152   | Resp: | 335357 |
| Ion      | Ratio | Lower | Upper  |
| 152      | 100   |       |        |
| 115      | 63.9  | 32.3  | 96.8   |
| 150      | 158.4 | 0.0   | 355.8  |



#76  
 1,2,3-Trichloropropane  
 Concen: 28.364 ug/l  
 RT: 12.854 min Scan# 1856  
 Delta R.T. -0.141 min  
 Lab File: VN077446.D  
 Acq: 25 Apr 2023 04:28

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 221196 |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 1.3   | 84.5  | 253.5# |

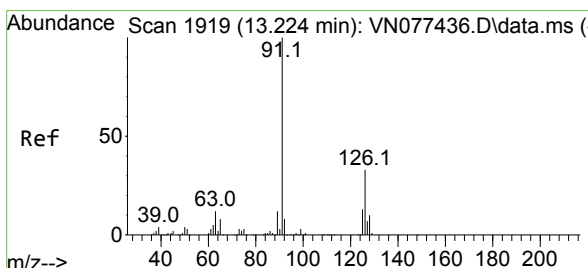
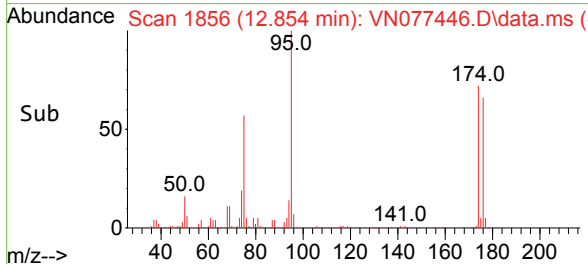
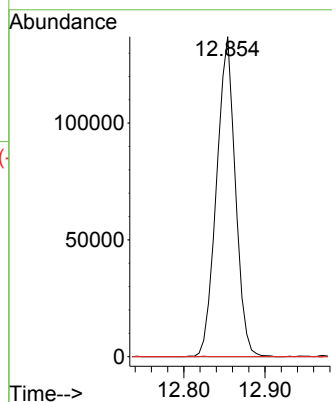
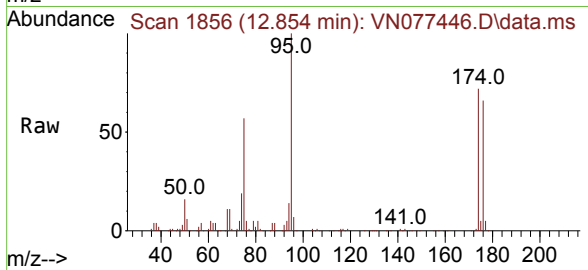




#81  
trans-1,4-Dichloro-2-butene  
Concen: 80.134 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.112 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

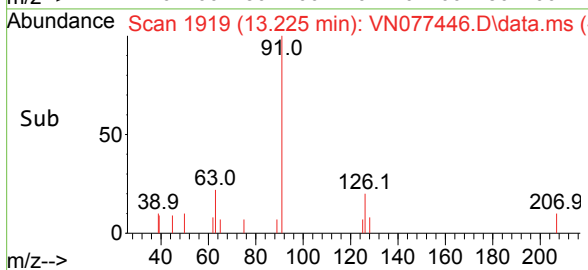
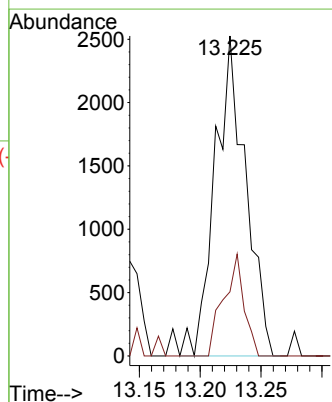
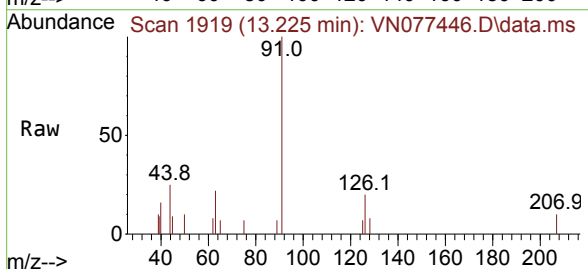
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0424WBL02

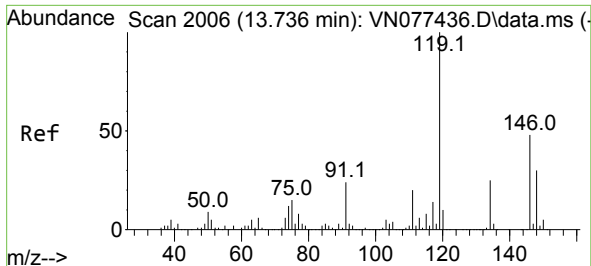
Tgt Ion: 75 Resp: 221196  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#



#82  
4-Chlorotoluene  
Concen: 0.223 ug/l  
RT: 13.225 min Scan# 1919  
Delta R.T. 0.000 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

Tgt Ion: 91 Resp: 4424  
Ion Ratio Lower Upper  
91 100  
126 21.2 16.7 50.0





#87

1,3-Dichlorobenzene

Concen: 0.230 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VN077446.D

Acq: 25 Apr 2023 04:28

Instrument :

MSVOA\_N

ClientSampleId :

VN0424WBL02

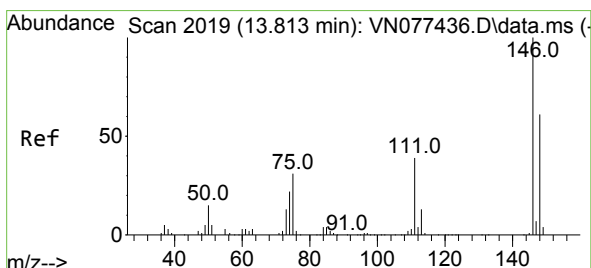
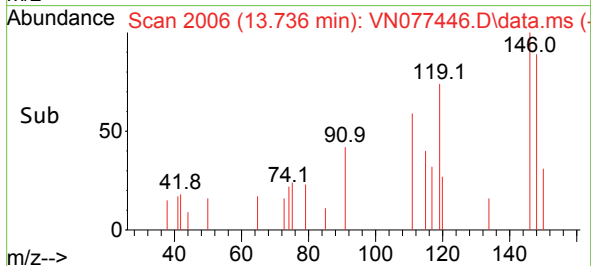
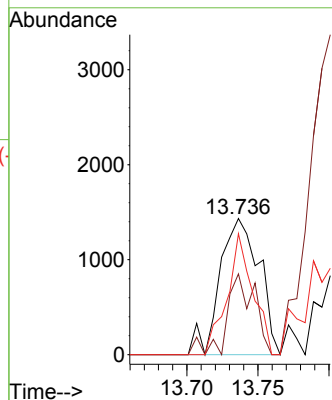
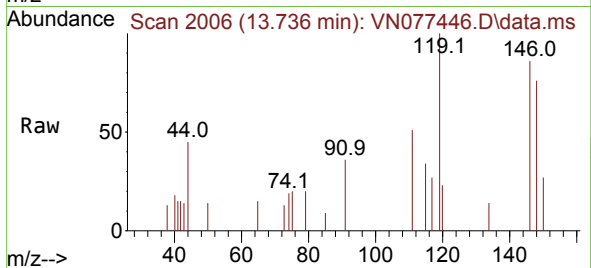
Tgt Ion:146 Resp: 2769

Ion Ratio Lower Upper

146 100

111 39.4 22.1 66.3

148 58.0 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.233 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. -0.076 min

Lab File: VN077446.D

Acq: 25 Apr 2023 04:28

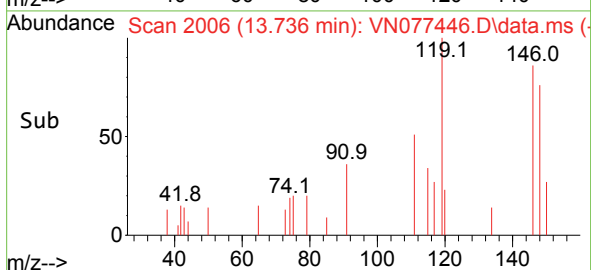
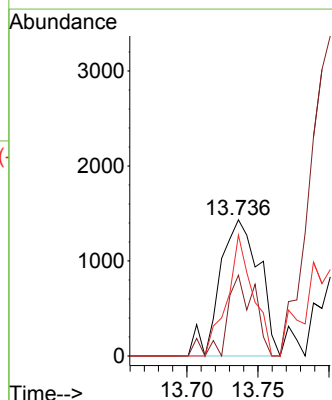
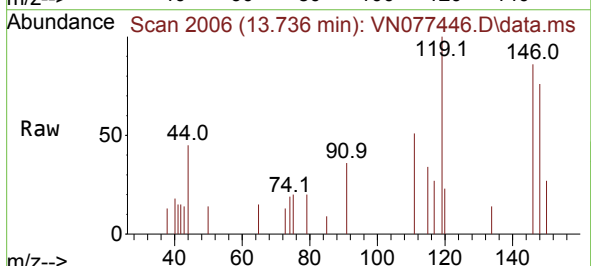
Tgt Ion:146 Resp: 2769

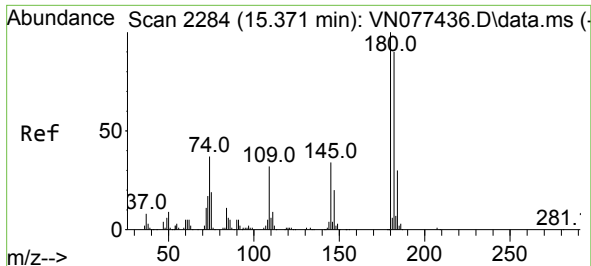
Ion Ratio Lower Upper

146 100

111 39.4 20.6 61.8

148 58.0 31.6 94.8

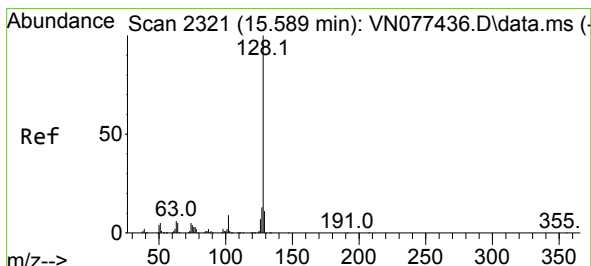
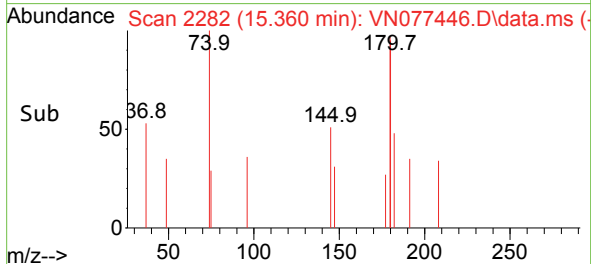
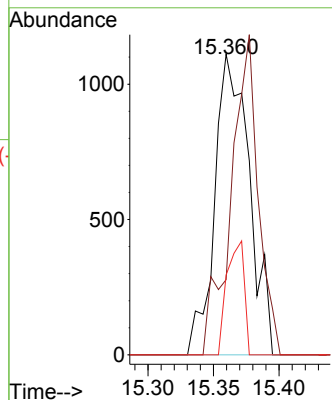
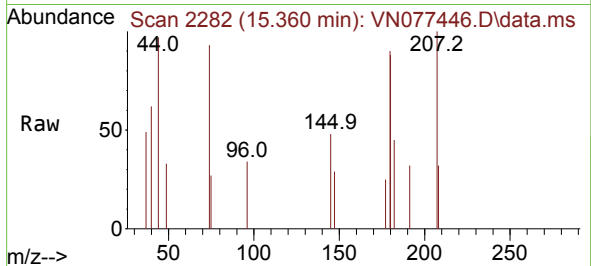




#93  
1,2,4-Trichlorobenzene  
Concen: 1.630 ug/l  
RT: 15.360 min Scan# 21  
Delta R.T. -0.011 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

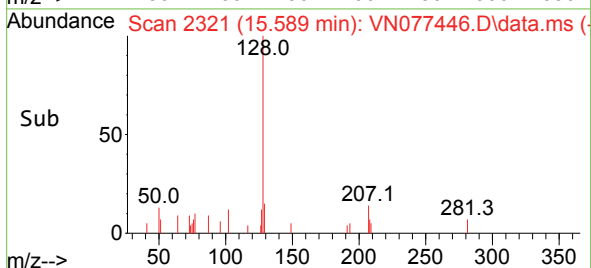
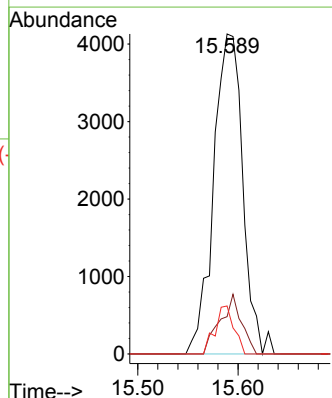
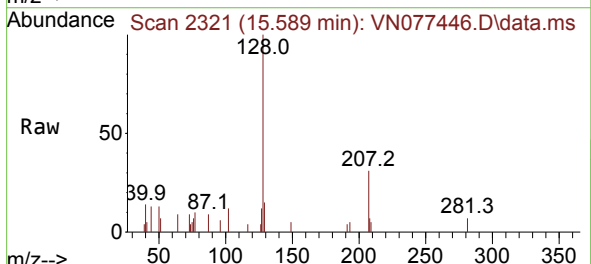
Instrument :  
MSVOA\_N  
ClientSampleId :  
VN0424WBL02

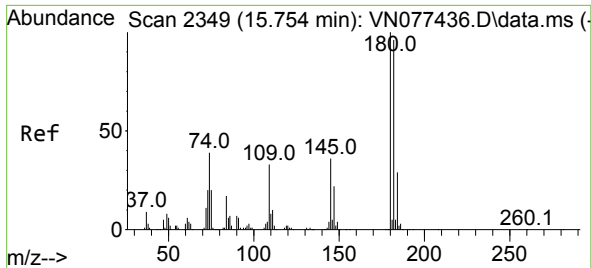
Tgt Ion:180 Resp: 2041  
Ion Ratio Lower Upper  
180 100  
182 83.8 46.1 138.2  
145 18.9 16.6 49.8



#95  
Naphthalene  
Concen: 2.062 ug/l  
RT: 15.589 min Scan# 2321  
Delta R.T. 0.000 min  
Lab File: VN077446.D  
Acq: 25 Apr 2023 04:28

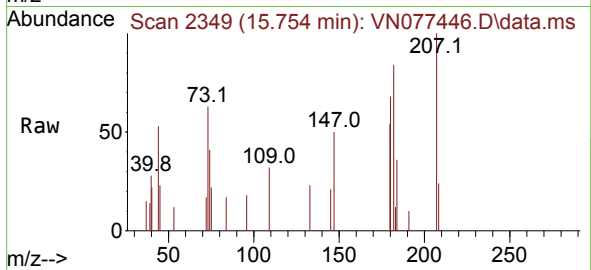
Tgt Ion:128 Resp: 8353  
Ion Ratio Lower Upper  
128 100  
127 13.7 10.0 15.0  
129 9.7 8.7 13.1





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.317 ug/l  
 RT: 15.754 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VN077446.D  
 Acq: 25 Apr 2023 04:28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0424WBL02



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 1886        |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 105.8 | 46.2 138.6  |
| 145         | 26.7  | 17.5 52.6   |

