

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN042023\  
 Data File : VN077398.D  
 Acq On : 20 Apr 2023 14:21  
 Operator : JC\MD  
 Sample : 02389-06  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SPB-2WC-23-04-17

Quant Time: Apr 21 02:39:47 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N040523W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 06 08:27:03 2023  
 Response via : Initial Calibration

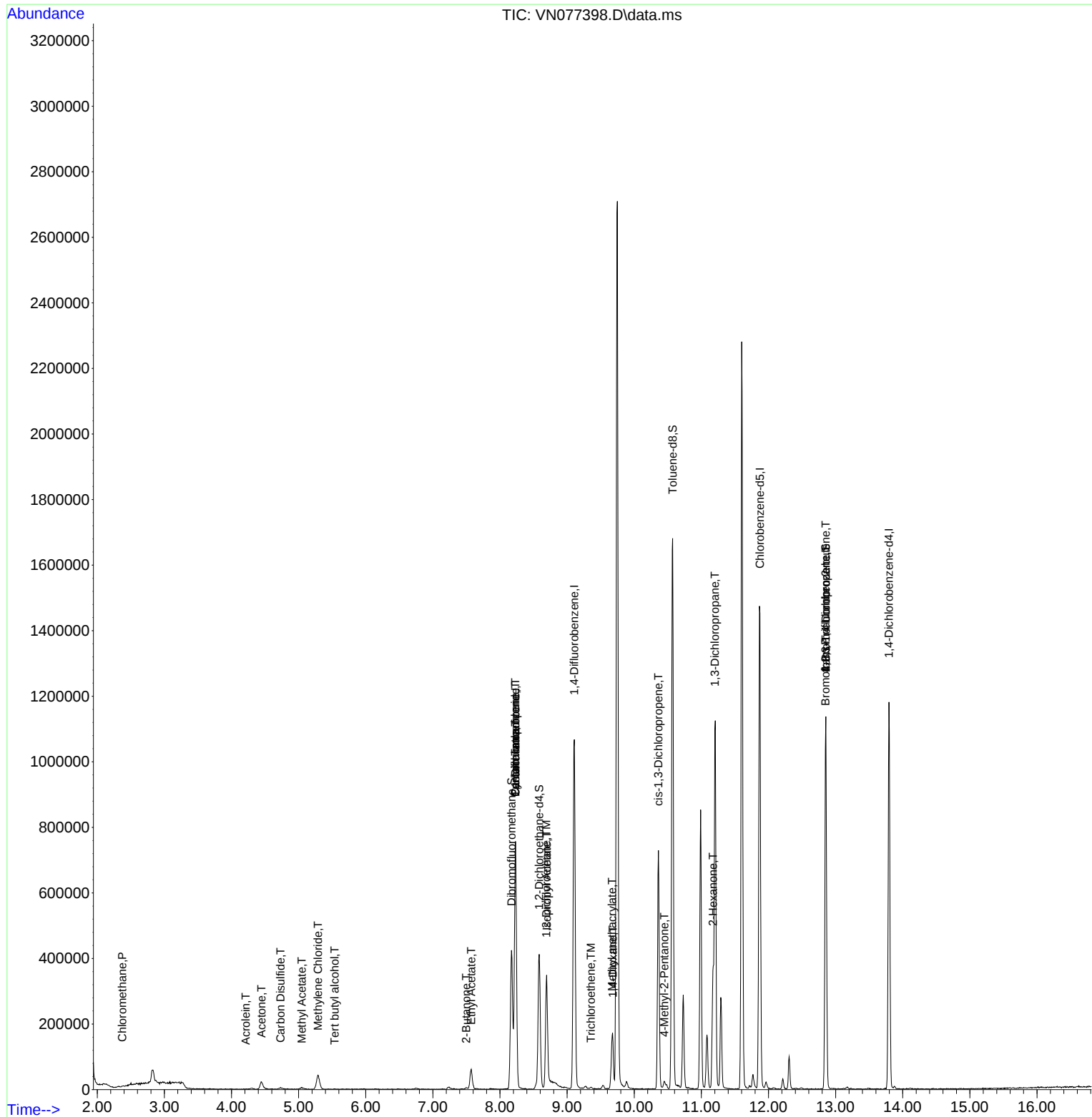
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 8.231          | 168  | 540886     | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.107          | 114  | 1004781    | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.872         | 117  | 897822     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.795         | 152  | 318252     | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.584          | 65   | 334408     | 45.236  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 90.480% |        |          |
| 35) Dibromofluoromethane      | 8.172          | 113  | 303802     | 47.231  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 94.460% |        |          |
| 50) Toluene-d8                | 10.572         | 98   | 1211294    | 46.778  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 93.560% |        |          |
| 62) 4-Bromofluorobenzene      | 12.854         | 95   | 398564     | 46.280  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 92.560% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 3) Chloromethane              | 2.372          | 50   | 1713       | 0.200   | ug/l # | 75       |
| 11) Tert butyl alcohol        | 5.537          | 59   | 553        | 0.367   | ug/l # | 72       |
| 13) Acrolein                  | 4.213          | 56   | 287        | 0.201   | ug/l   | 93       |
| 16) Acetone                   | 4.449          | 43   | 42858      | 15.724  | ug/l   | 98       |
| 17) Carbon Disulfide          | 4.731          | 76   | 3497       | 0.205   | ug/l # | 69       |
| 18) Methyl Acetate            | 5.049          | 43   | 9929       | 0.956   | ug/l # | 78       |
| 20) Methylene Chloride        | 5.290          | 84   | 37632      | 4.889   | ug/l   | 91       |
| 25) 2-Butanone                | 7.495          | 43   | 4109       | 0.929   | ug/l # | 84       |
| 31) Cyclohexane               | 8.231          | 56   | 12458      | 1.085   | ug/l # | 25       |
| 36) 1,1-Dichloropropene       | 8.231          | 75   | 45389      | 4.771   | ug/l # | 51       |
| 37) Ethyl Acetate             | 7.572          | 43   | 85700      | 10.068  | ug/l   | 96       |
| 38) Carbon Tetrachloride      | 8.231          | 117  | 58977      | 6.051   | ug/l # | 15       |
| 42) 1,2-Dichloroethane        | 8.689          | 62   | 3467       | 0.380   | ug/l # | 73       |
| 43) Isopropyl Acetate         | 8.695          | 43   | 397850     | 25.331  | ug/l # | 89       |
| 44) Trichloroethene           | 9.354          | 130  | 1799       | 0.253   | ug/l   | 80       |
| 48) Methyl methacrylate       | 9.672          | 41   | 8140       | 1.215   | ug/l # | 34       |
| 49) 1,4-Dioxane               | 9.684          | 88   | 474        | 2.918   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.448         | 43   | 14059      | 1.549   | ug/l   | 98       |
| 54) cis-1,3-Dichloropropene   | 10.360         | 75   | 149732     | 12.198  | ug/l # | 58       |
| 57) 1,3-Dichloropropane       | 11.201         | 76   | 13967      | 1.109   | ug/l # | 42       |
| 59) 2-Hexanone                | 11.172         | 43   | 283665     | 41.941  | ug/l # | 20       |
| 71) Bromoform                 | 12.848         | 173  | 1479       | 0.281   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.854         | 75   | 210711     | 27.804  | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.854         | 75   | 210711     | 62.568  | ug/l # | 13       |
| -----                         |                |      |            |         |        |          |

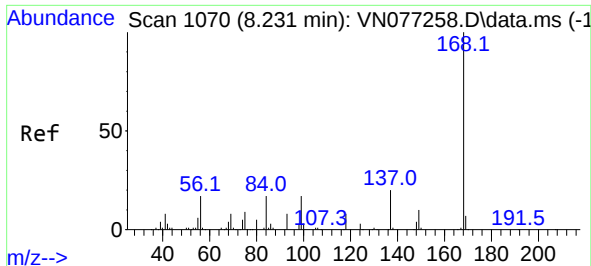
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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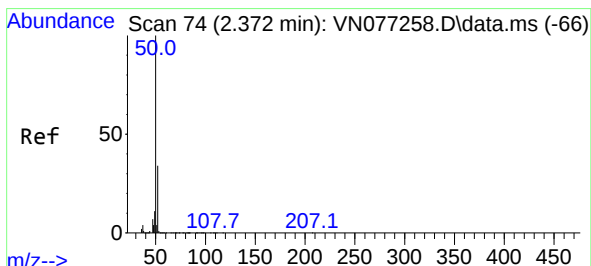
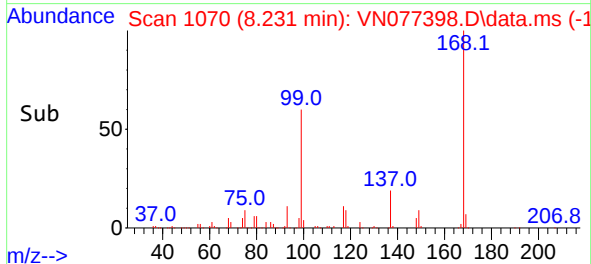
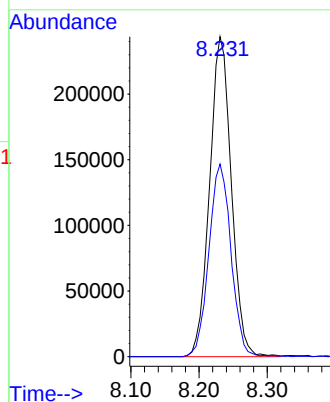
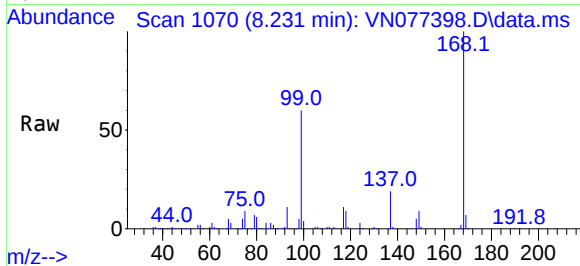




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.231 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

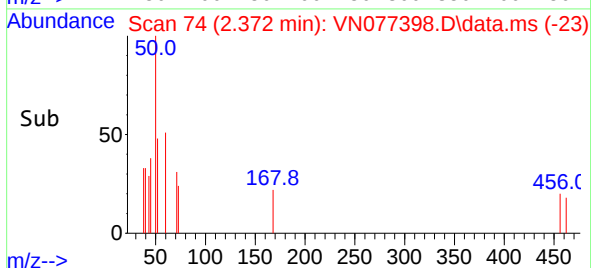
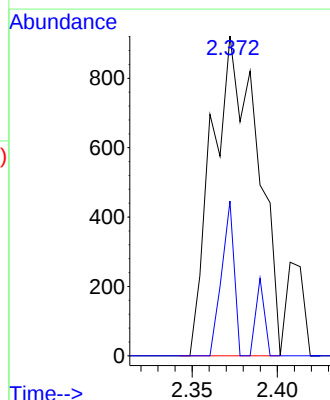
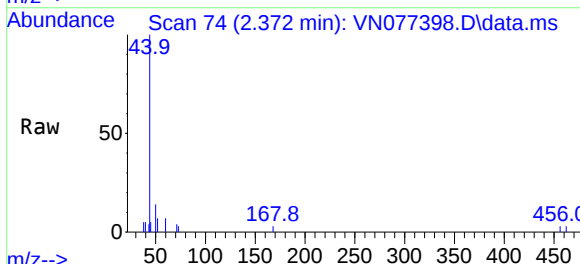
Instrument :  
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ClientSampleId :  
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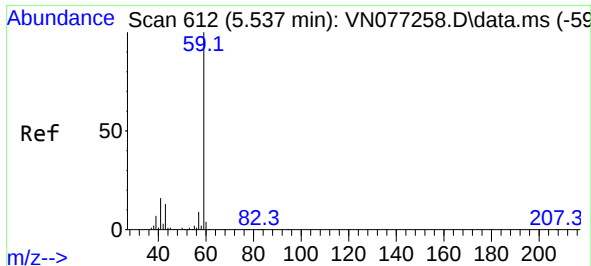
Tgt Ion:168 Resp: 540886  
Ion Ratio Lower Upper  
168 100  
99 60.2 50.6 75.8



#3  
Chloromethane  
Concen: 0.200 ug/l  
RT: 2.372 min Scan# 74  
Delta R.T. 0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 50 Resp: 1713  
Ion Ratio Lower Upper  
50 100  
52 48.4 27.3 40.9#

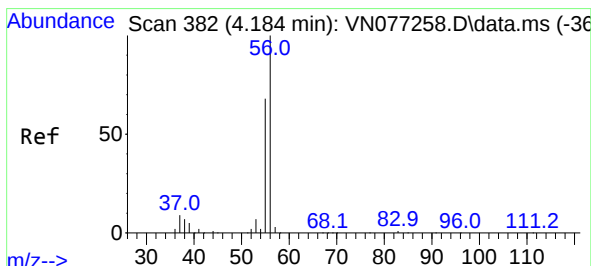
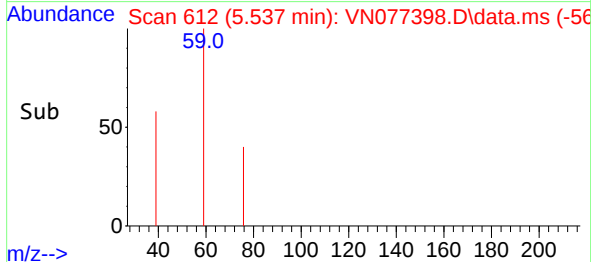
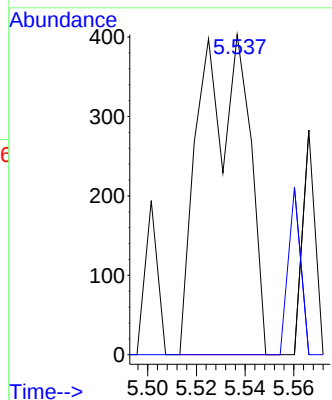
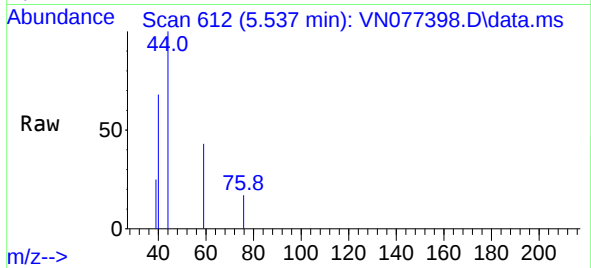




#11  
Tert butyl alcohol  
Concen: 0.367 ug/l  
RT: 5.537 min Scan# 612  
Delta R.T. -0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

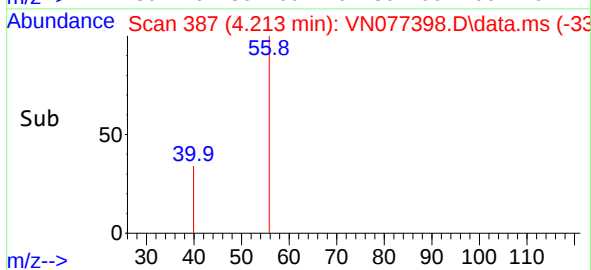
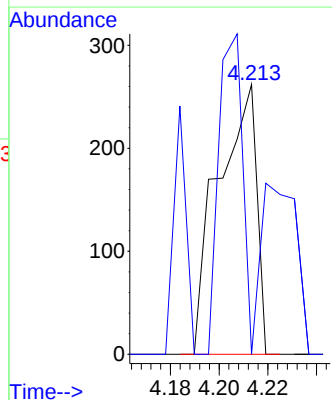
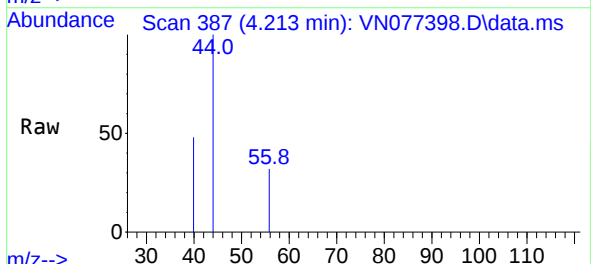
Instrument :  
MSVOA\_N  
ClientSampleId :  
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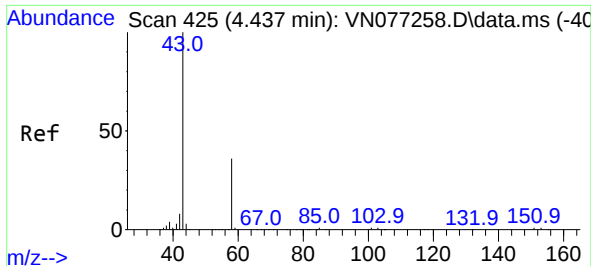
Tgt Ion: 59 Resp: 553  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#13  
Acrolein  
Concen: 0.201 ug/l  
RT: 4.213 min Scan# 387  
Delta R.T. 0.029 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 56 Resp: 287  
Ion Ratio Lower Upper  
56 100  
55 73.5 54.2 81.2

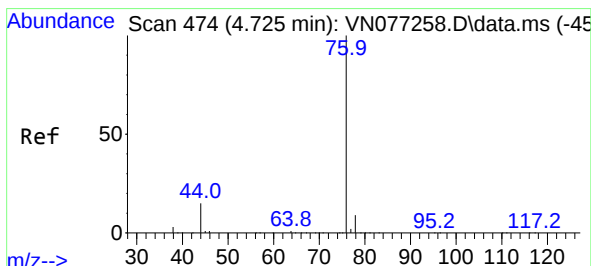
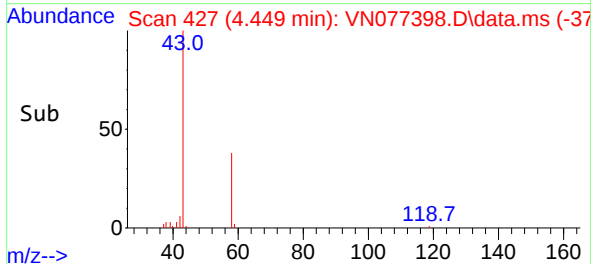
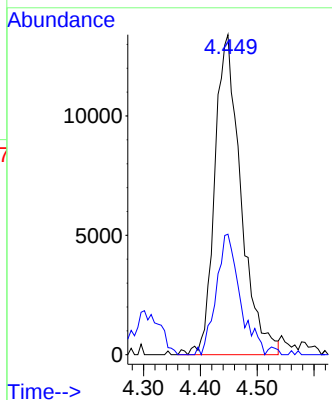
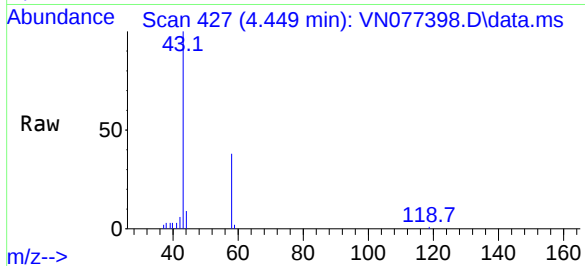




#16  
Acetone  
Concen: 15.724 ug/l  
RT: 4.449 min Scan# 41  
Delta R.T. 0.012 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

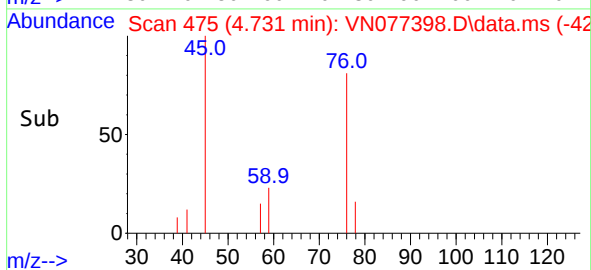
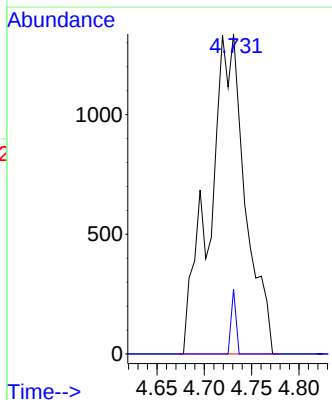
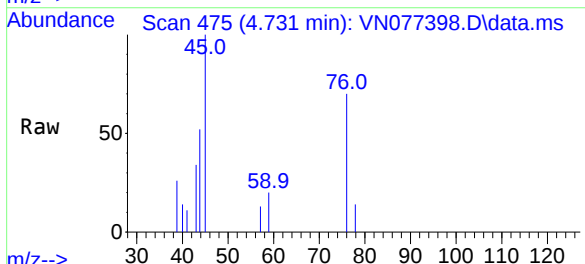
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MSVOA\_N  
ClientSampleId :  
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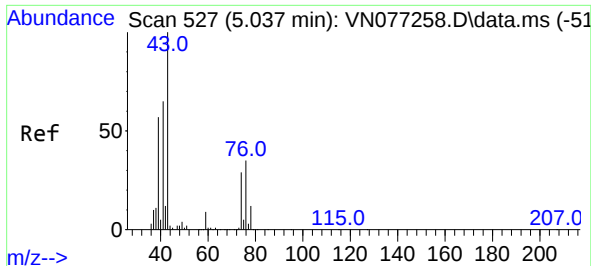
Tgt Ion: 43 Resp: 42858  
Ion Ratio Lower Upper  
43 100  
58 37.7 29.0 43.6



#17  
Carbon Disulfide  
Concen: 0.205 ug/l  
RT: 4.731 min Scan# 475  
Delta R.T. 0.006 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 76 Resp: 3497  
Ion Ratio Lower Upper  
76 100  
78 20.3 7.3 10.9#

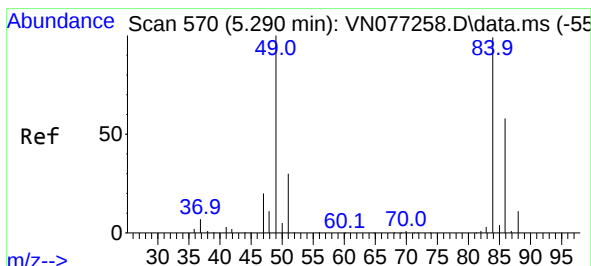
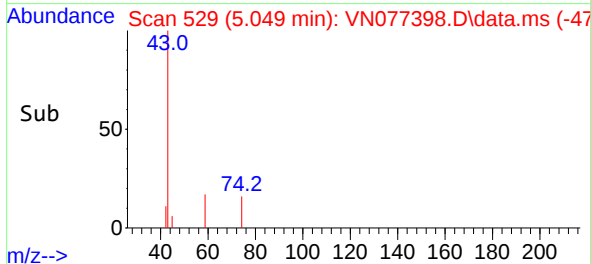
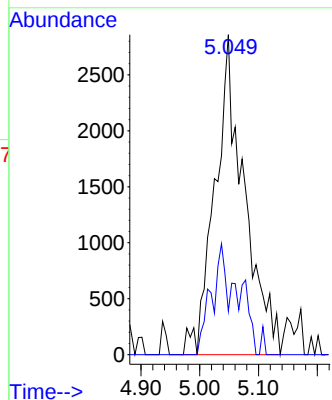
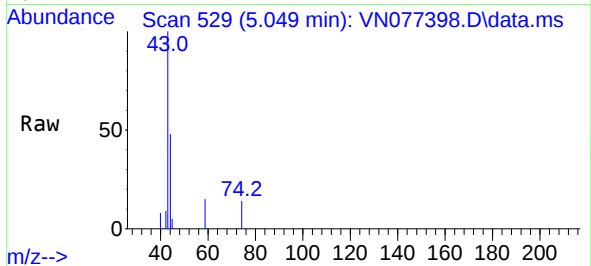




#18  
Methyl Acetate  
Concen: 0.956 ug/l  
RT: 5.049 min Scan# 51  
Delta R.T. 0.012 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

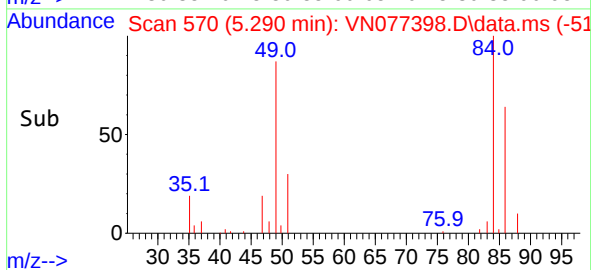
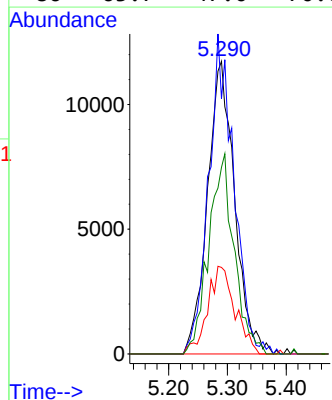
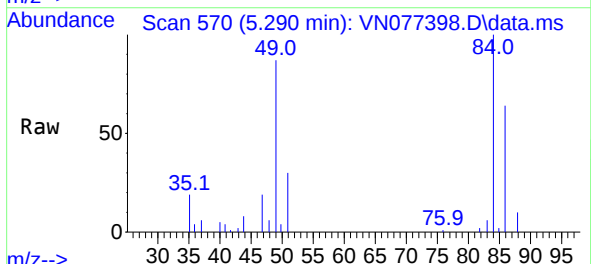
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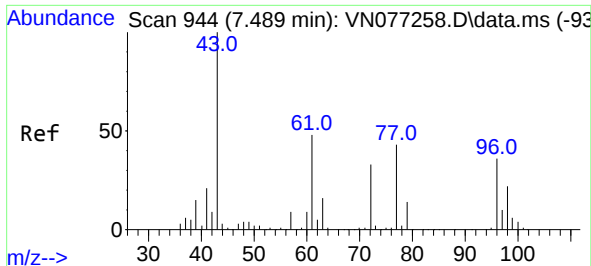
Tgt Ion: 43 Resp: 9929  
Ion Ratio Lower Upper  
43 100  
74 17.4 23.4 35.2#



#20  
Methylene Chloride  
Concen: 4.889 ug/l  
RT: 5.290 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 84 Resp: 37632  
Ion Ratio Lower Upper  
84 100  
49 87.2 80.6 121.0  
51 29.6 24.4 36.6  
86 63.7 47.0 70.6

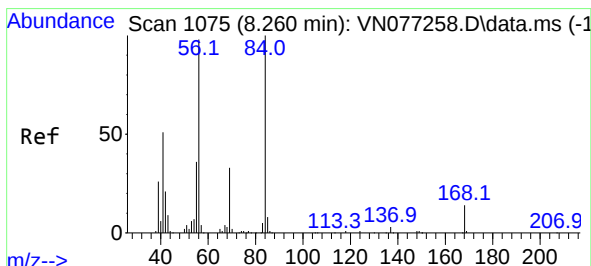
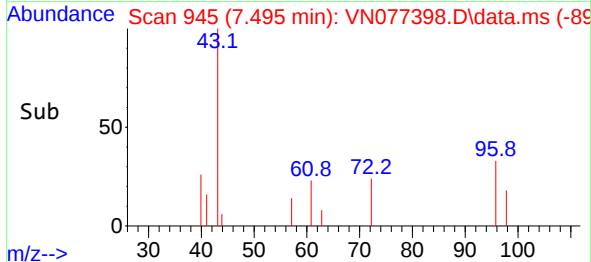
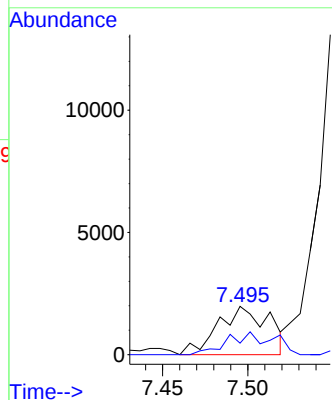
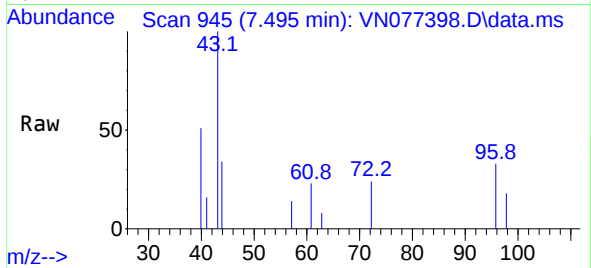




#25  
2-Butanone  
Concen: 0.929 ug/l  
RT: 7.495 min Scan# 94  
Delta R.T. 0.006 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

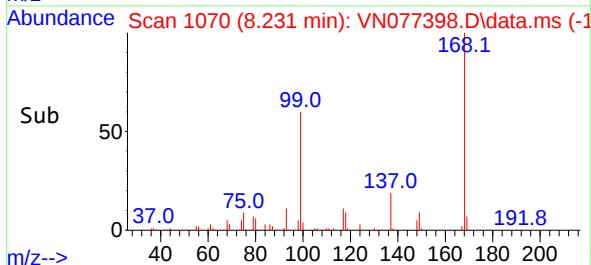
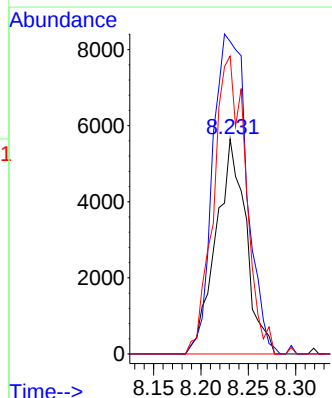
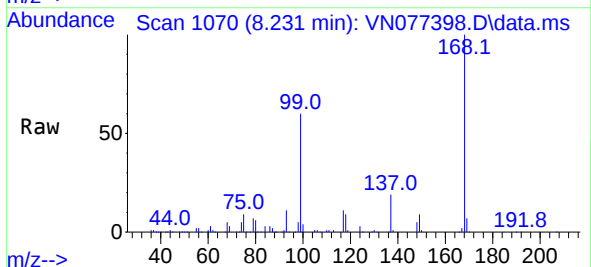
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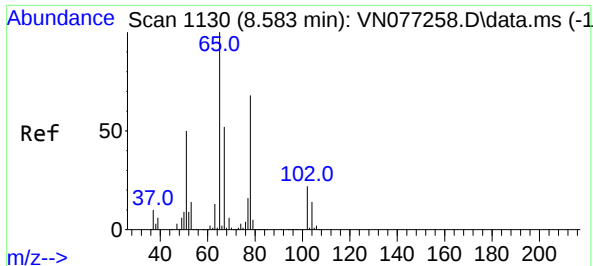
Tgt Ion: 43 Resp: 4109  
Ion Ratio Lower Upper  
43 100  
72 23.9 26.6 39.8#



#31  
Cyclohexane  
Concen: 1.085 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.029 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 56 Resp: 12458  
Ion Ratio Lower Upper  
56 100  
69 145.3 26.6 40.0#  
84 138.5 81.8 122.8#

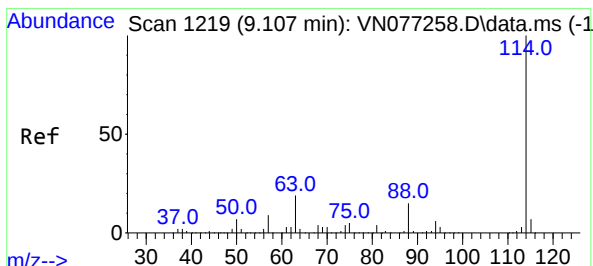
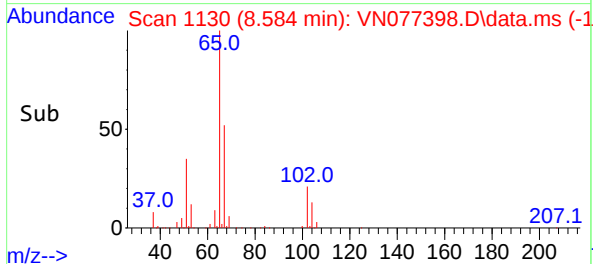
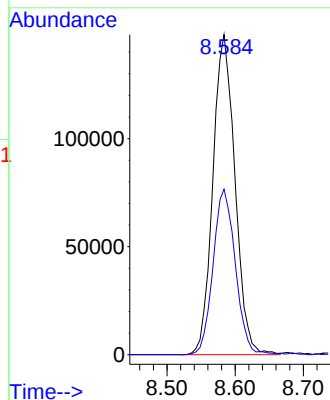
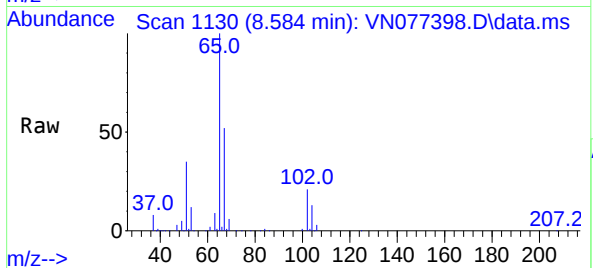




#33  
1,2-Dichloroethane-d4  
Concen: 45.236 ug/l  
RT: 8.584 min Scan# 1130  
Delta R.T. 0.001 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

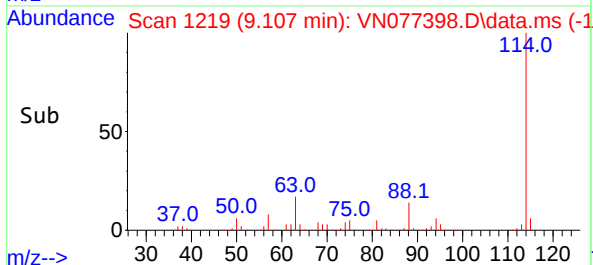
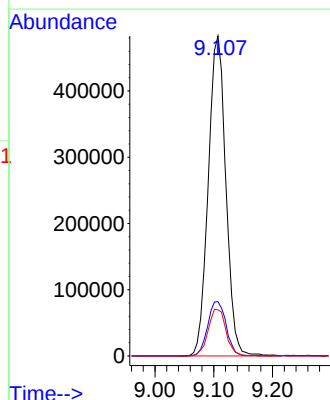
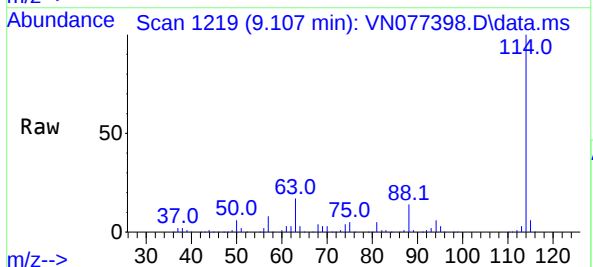
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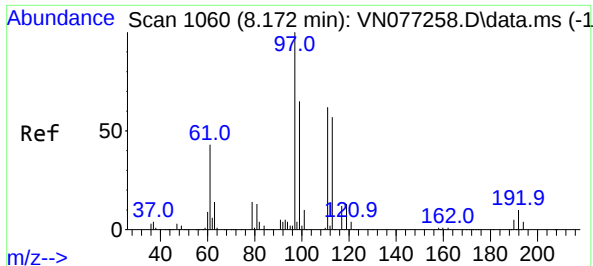
Tgt Ion: 65 Resp: 334408  
Ion Ratio Lower Upper  
65 100  
67 52.0 0.0 108.8



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 9.107 min Scan# 1219  
Delta R.T. 0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 114 Resp: 1004781  
Ion Ratio Lower Upper  
114 100  
63 17.0 0.0 37.8  
88 14.4 0.0 29.4

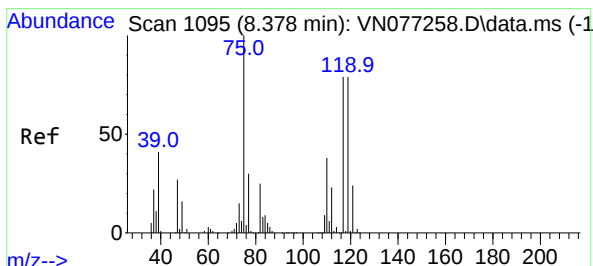
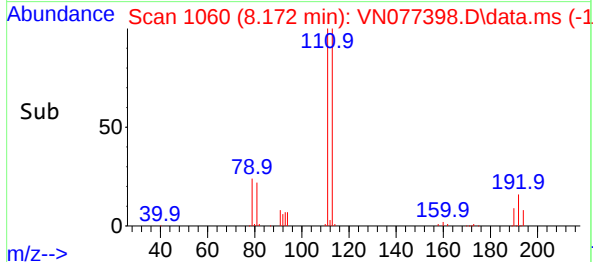
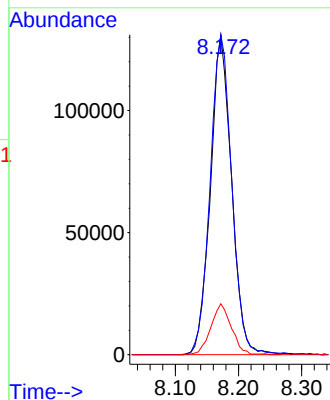
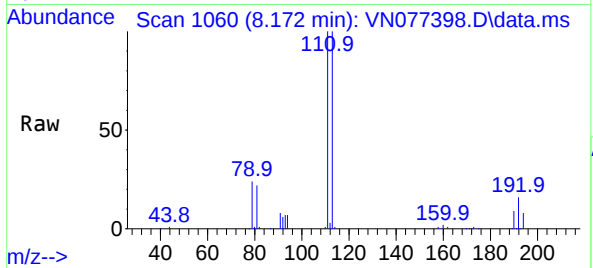




#35  
Dibromofluoromethane  
Concen: 47.231 ug/l  
RT: 8.172 min Scan# 1060  
Delta R.T. -0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

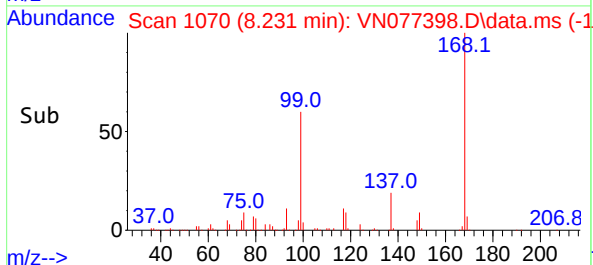
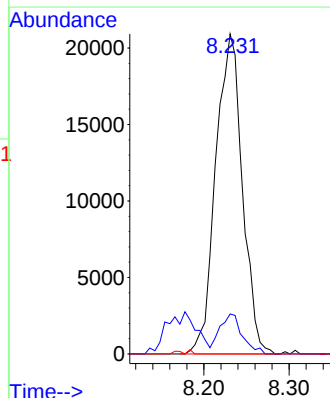
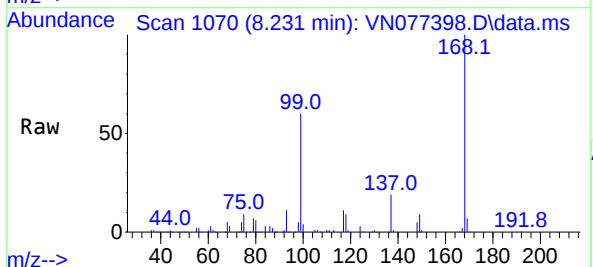
Instrument :  
MSVOA\_N  
ClientSampleId :  
SPB-2WC-23-04-17

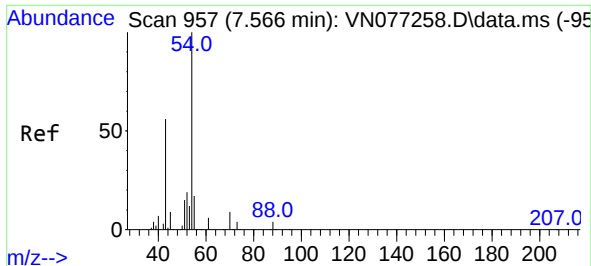
Tgt Ion: 113 Resp: 303802  
Ion Ratio Lower Upper  
113 100  
111 102.7 83.4 125.0  
192 15.5 13.5 20.3



#36  
1,1-Dichloropropene  
Concen: 4.771 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.147 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 75 Resp: 45389  
Ion Ratio Lower Upper  
75 100  
110 10.6 17.8 53.5#  
77 0.0 25.0 37.4#

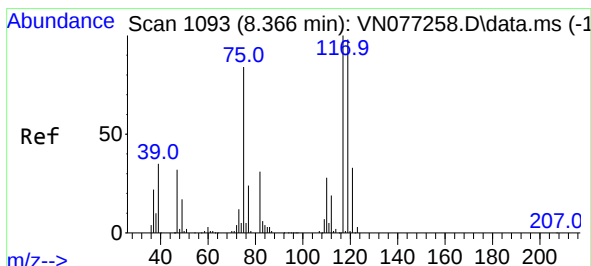
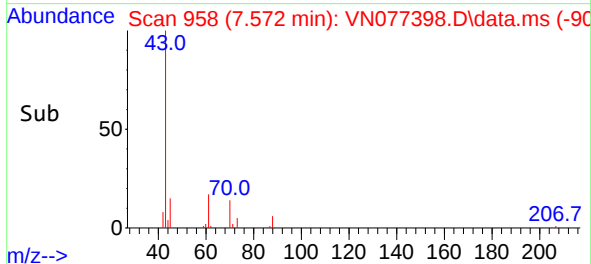
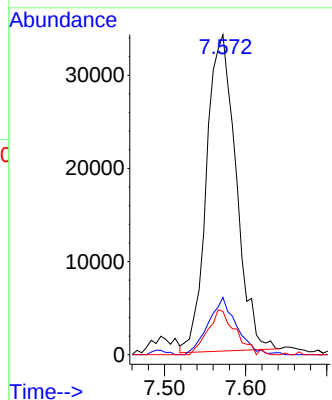
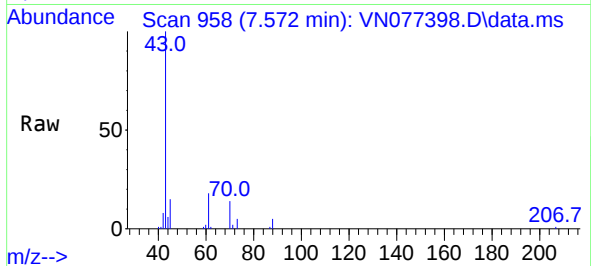




#37  
Ethyl Acetate  
Concen: 10.068 ug/l  
RT: 7.572 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

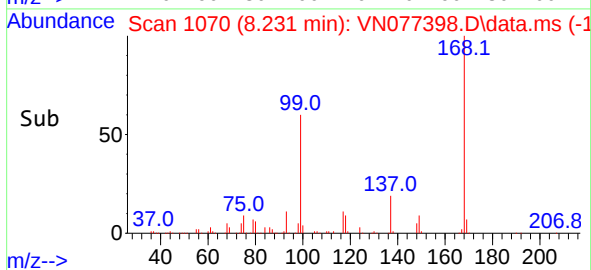
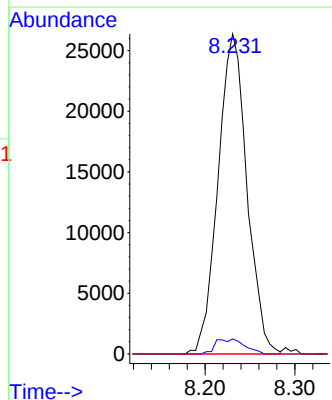
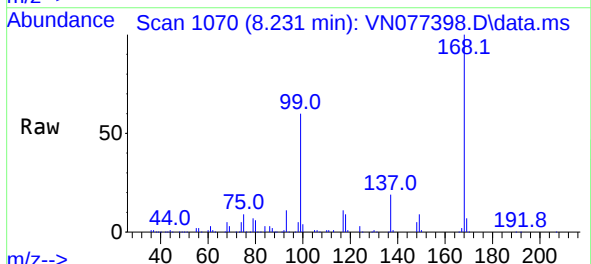
Instrument :  
MSVOA\_N  
ClientSampleId :  
SPB-2WC-23-04-17

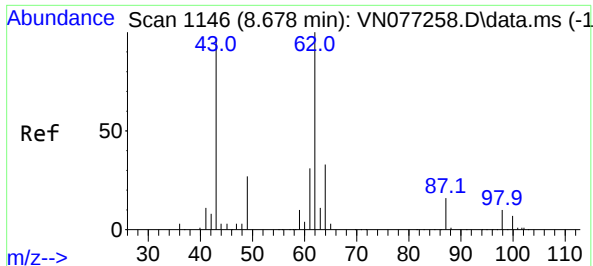
Tgt Ion: 43 Resp: 85700  
Ion Ratio Lower Upper  
43 100  
61 17.2 12.2 18.2  
70 13.4 10.0 15.0



#38  
Carbon Tetrachloride  
Concen: 6.051 ug/l  
RT: 8.231 min Scan# 1070  
Delta R.T. -0.135 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 117 Resp: 58977  
Ion Ratio Lower Upper  
117 100  
119 4.7 78.5 117.7#  
121 0.0 26.6 40.0#





#42

1,2-Dichloroethane

Concen: 0.380 ug/l

RT: 8.689 min Scan# 1148

Delta R.T. 0.011 min

Lab File: VN077398.D

Acq: 20 Apr 2023 14:21

Instrument :

MSVOA\_N

ClientSampleId :

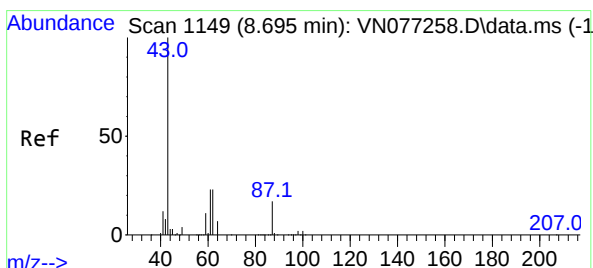
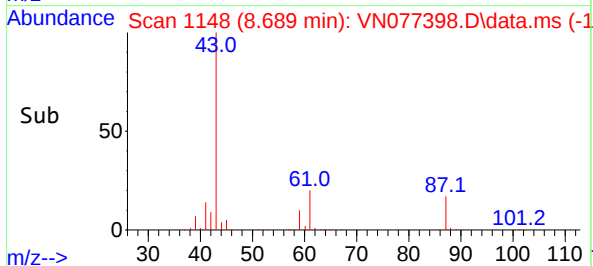
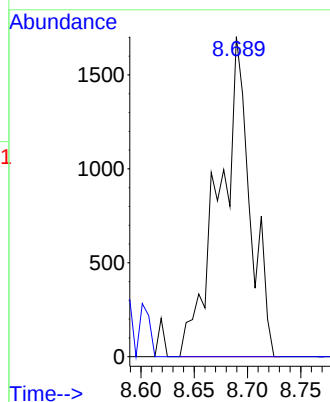
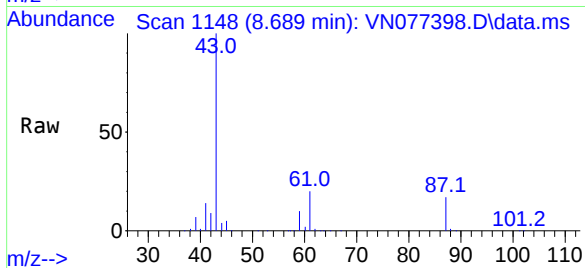
SPB-2WC-23-04-17

Tgt Ion: 62 Resp: 3467

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.2



#43

Isopropyl Acetate

Concen: 25.331 ug/l

RT: 8.695 min Scan# 1149

Delta R.T. 0.000 min

Lab File: VN077398.D

Acq: 20 Apr 2023 14:21

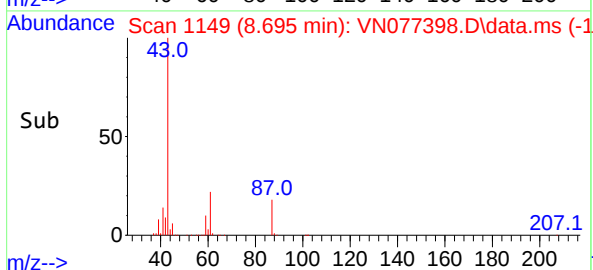
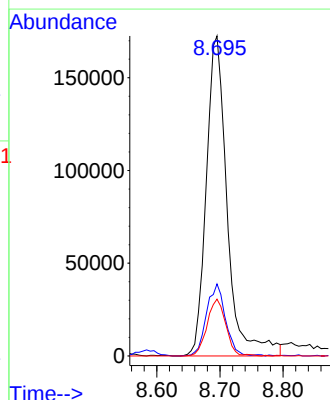
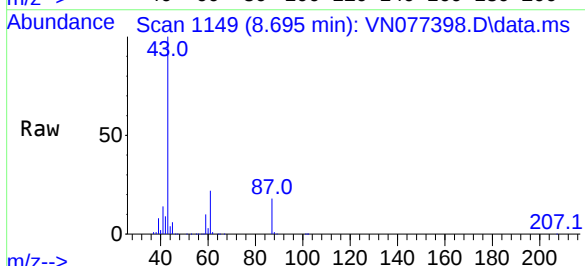
Tgt Ion: 43 Resp: 397850

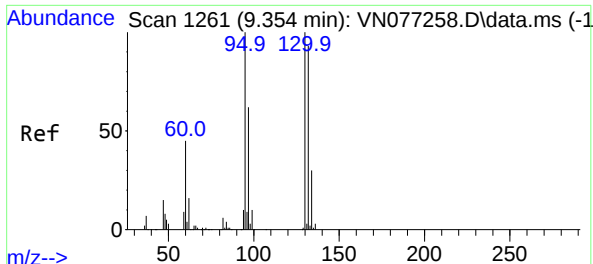
Ion Ratio Lower Upper

43 100

61 20.4 22.7 34.1#

87 15.7 13.6 20.4

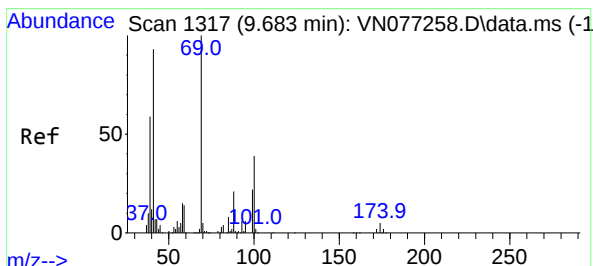
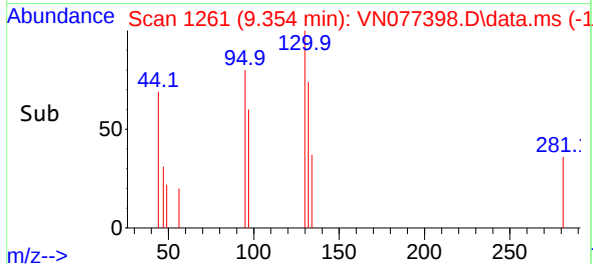
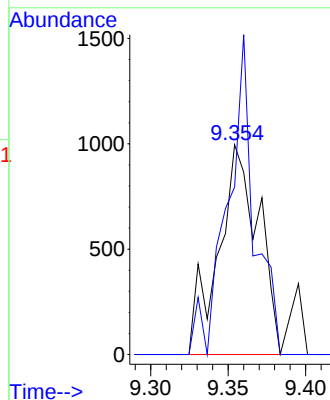
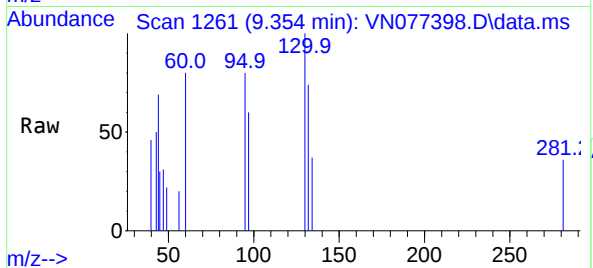




#44  
Trichloroethene  
Concen: 0.253 ug/l  
RT: 9.354 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

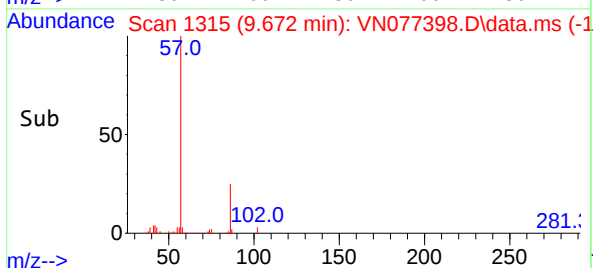
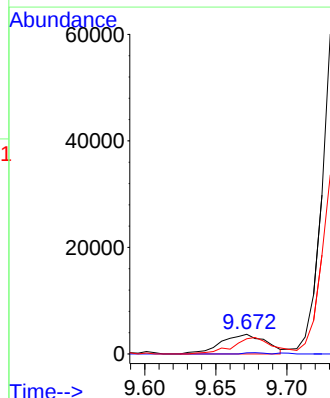
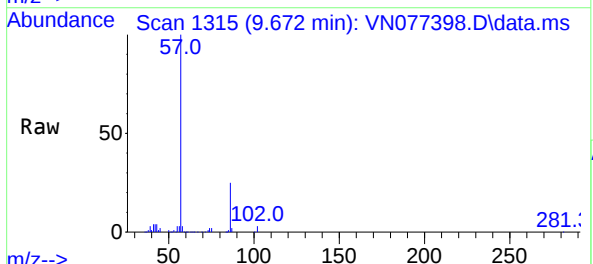
Instrument :  
MSVOA\_N  
ClientSampleId :  
SPB-2WC-23-04-17

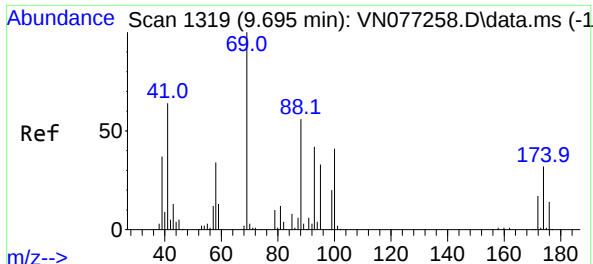
Tgt Ion:130 Resp: 1799  
Ion Ratio Lower Upper  
130 100  
95 79.8 0.0 200.2



#48  
Methyl methacrylate  
Concen: 1.215 ug/l  
RT: 9.672 min Scan# 1315  
Delta R.T. -0.011 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

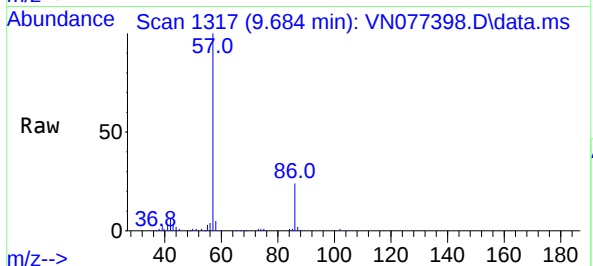
Tgt Ion: 41 Resp: 8140  
Ion Ratio Lower Upper  
41 100  
69 2.7 85.0 127.6#  
39 75.9 53.5 80.3



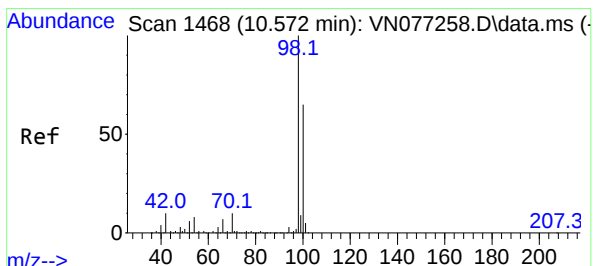
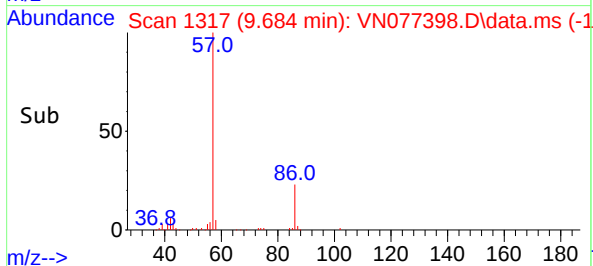
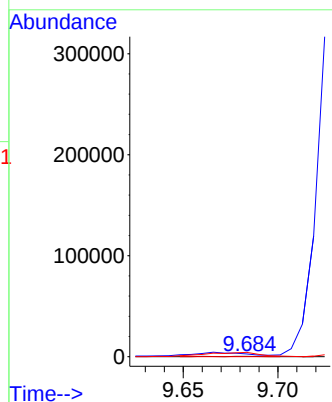


#49  
1,4-Dioxane  
Concen: 2.918 ug/l  
RT: 9.684 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
SPB-2WC-23-04-17

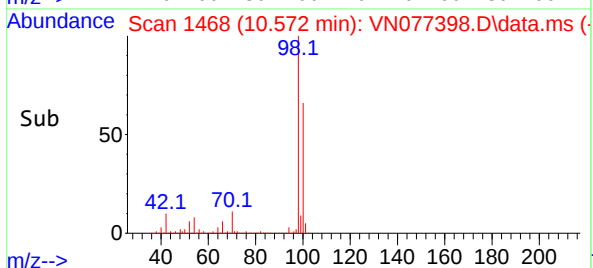
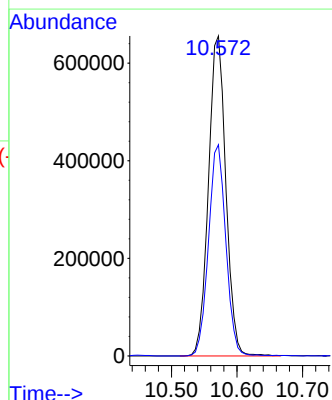
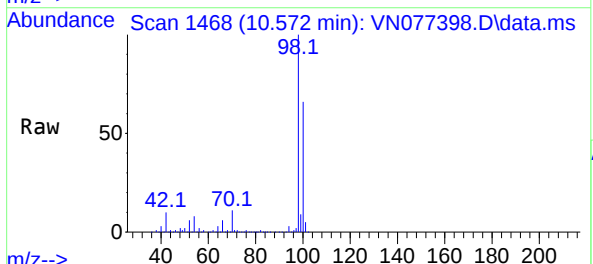


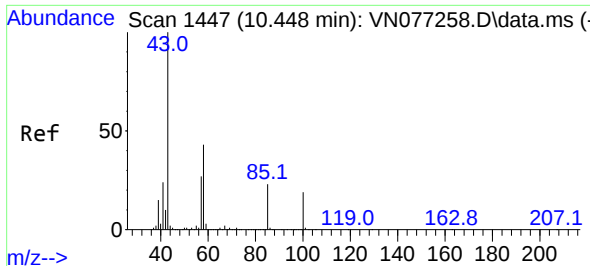
Tgt Ion: 88 Resp: 474  
Ion Ratio Lower Upper  
88 100  
43 0.0 17.0 25.6#  
58 1810.1 49.8 74.6#



#50  
Toluene-d8  
Concen: 46.778 ug/l  
RT: 10.572 min Scan# 1468  
Delta R.T. -0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 98 Resp: 1211294  
Ion Ratio Lower Upper  
98 100  
100 65.7 51.3 76.9

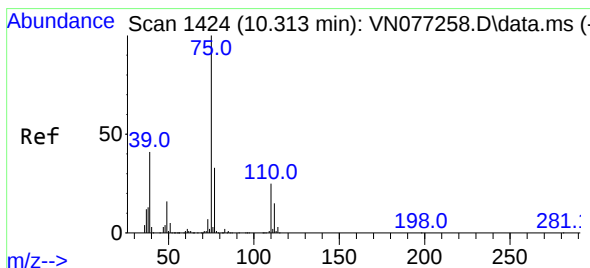
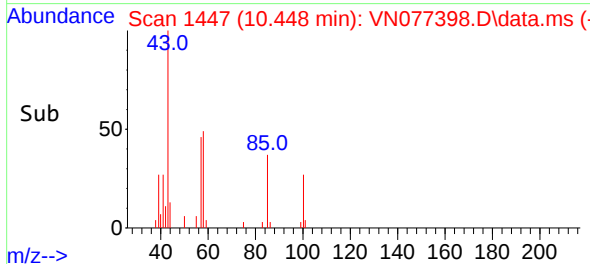
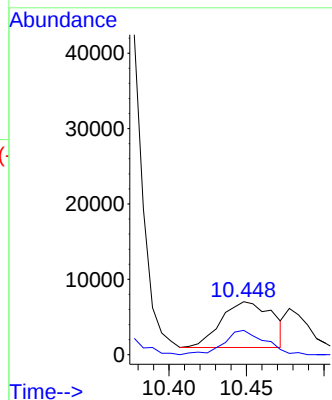
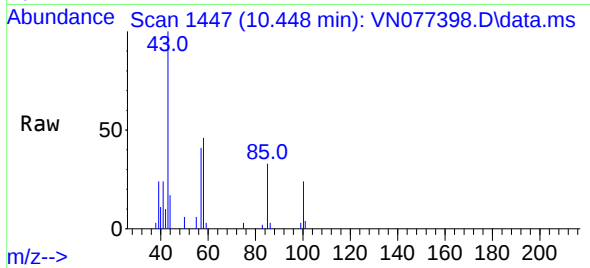




#51  
4-Methyl-2-Pentanone  
Concen: 1.549 ug/l  
RT: 10.448 min Scan# 1447  
Delta R.T. 0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

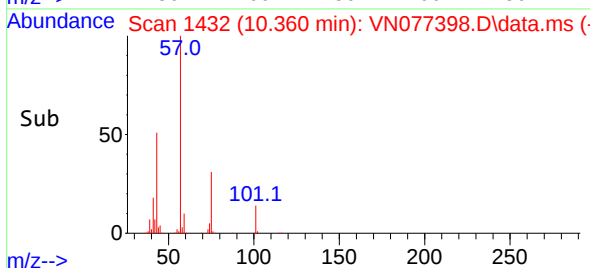
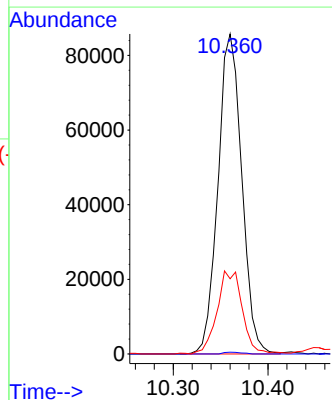
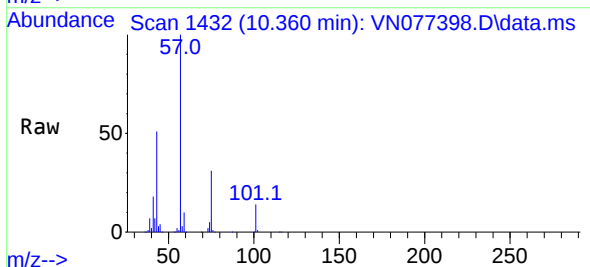
Instrument :  
MSVOA\_N  
ClientSampleId :  
SPB-2WC-23-04-17

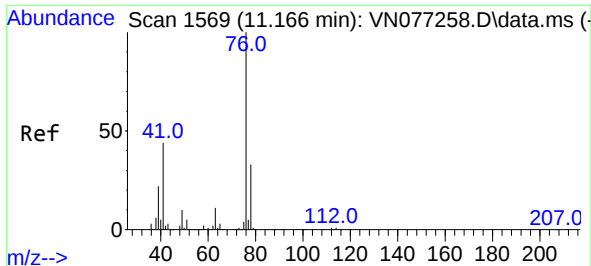
Tgt Ion: 43 Resp: 14059  
Ion Ratio Lower Upper  
43 100  
58 42.3 34.6 52.0



#54  
cis-1,3-Dichloropropene  
Concen: 12.198 ug/l  
RT: 10.360 min Scan# 1432  
Delta R.T. 0.047 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 75 Resp: 149732  
Ion Ratio Lower Upper  
75 100  
77 0.5 26.7 40.1#  
39 23.3 32.8 49.2#





#57

1,3-Dichloropropane

Concen: 1.109 ug/l

RT: 11.201 min Scan# 11

Delta R.T. 0.035 min

Lab File: VN077398.D

Acq: 20 Apr 2023 14:21

Instrument :

MSVOA\_N

ClientSampleId :

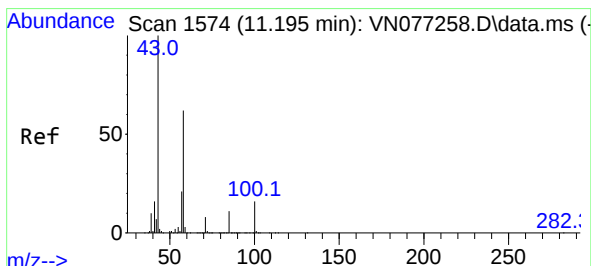
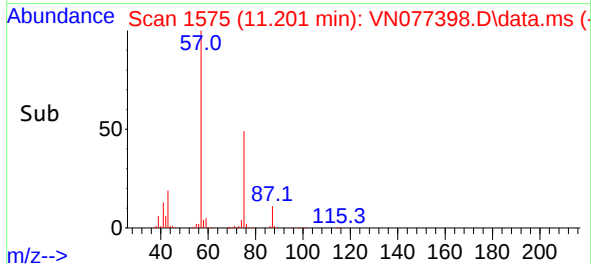
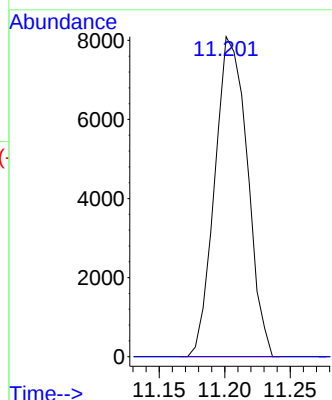
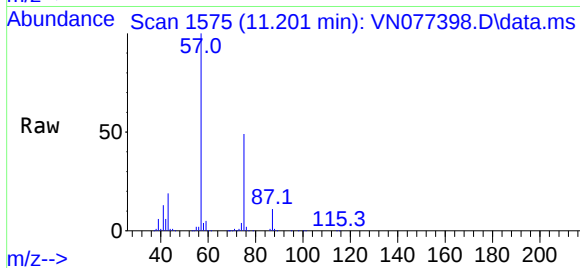
SPB-2WC-23-04-17

Tgt Ion: 76 Resp: 13967

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 41.941 ug/l

RT: 11.172 min Scan# 1570

Delta R.T. -0.023 min

Lab File: VN077398.D

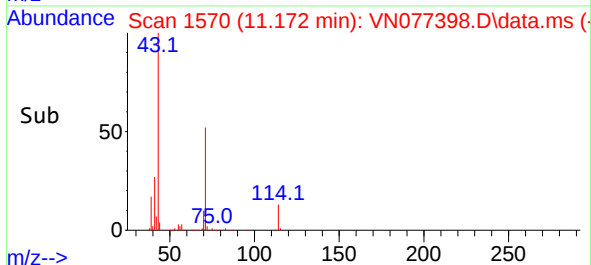
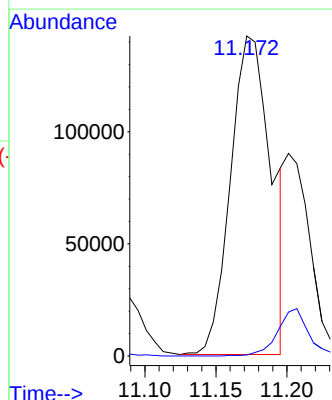
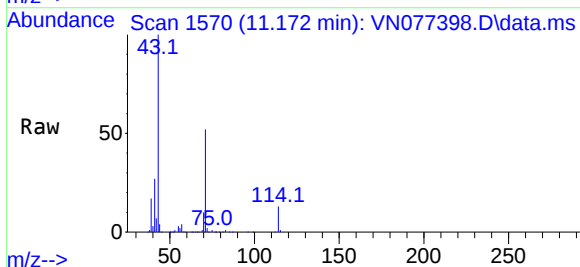
Acq: 20 Apr 2023 14:21

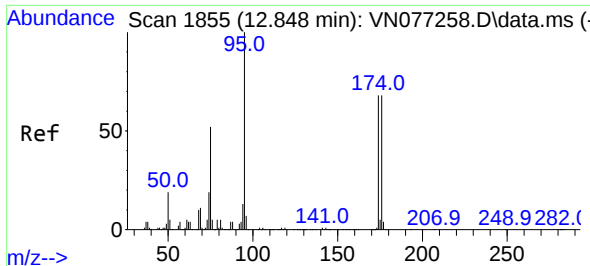
Tgt Ion: 43 Resp: 283665

Ion Ratio Lower Upper

43 100

58 0.0 30.9 92.5#

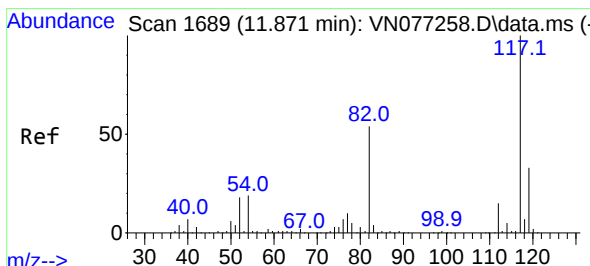
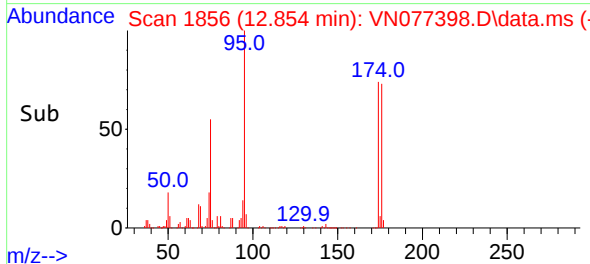
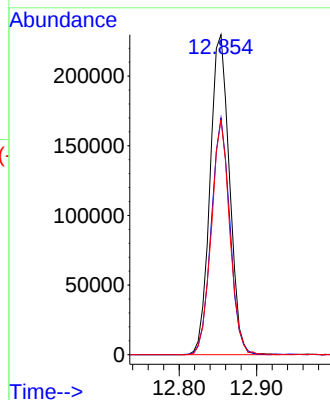
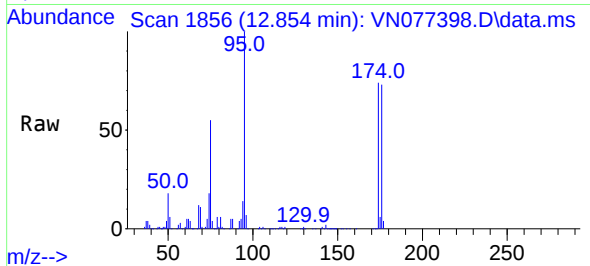




#62  
4-Bromofluorobenzene  
Concen: 46.280 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.006 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

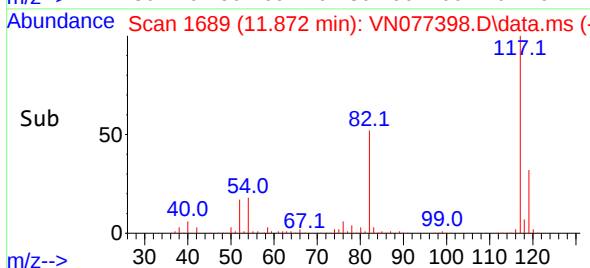
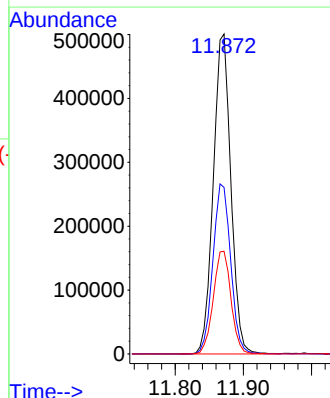
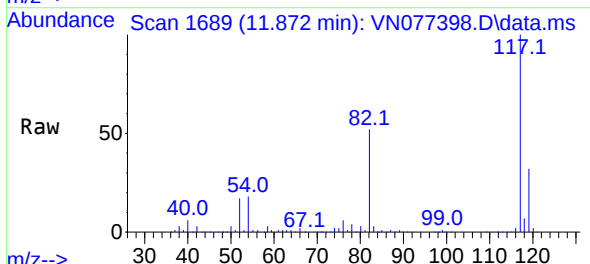
Instrument :  
MSVOA\_N  
ClientSampleId :  
SPB-2WC-23-04-17

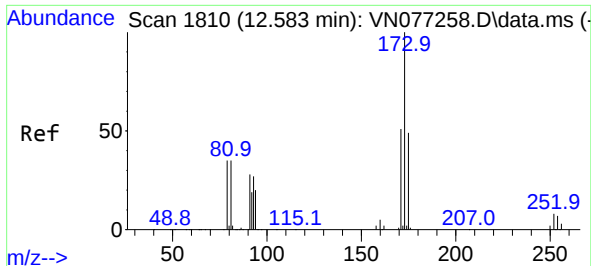
Tgt Ion: 95 Resp: 398564  
Ion Ratio Lower Upper  
95 100  
174 71.1 0.0 146.8  
176 69.8 0.0 139.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.872 min Scan# 1689  
Delta R.T. 0.001 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 117 Resp: 897822  
Ion Ratio Lower Upper  
117 100  
82 52.0 42.9 64.3  
119 32.1 26.2 39.4

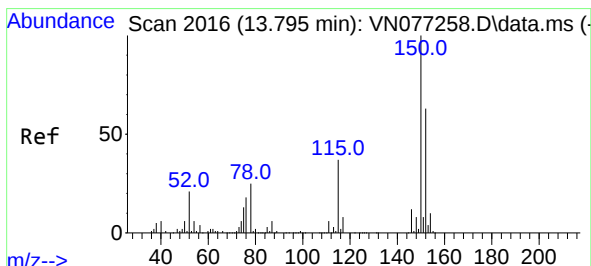
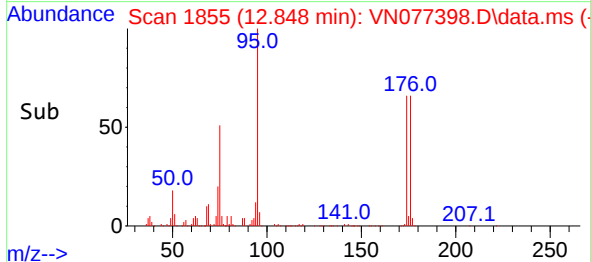
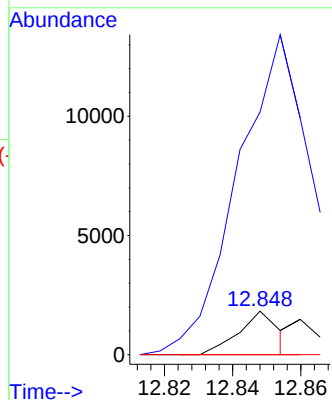
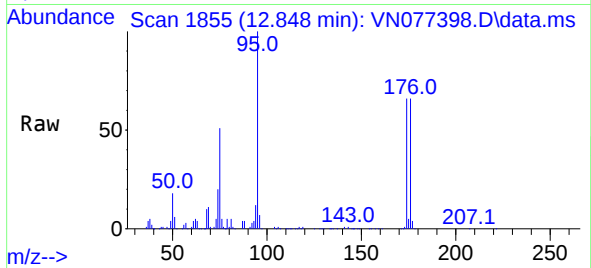




#71  
Bromoform  
Concen: 0.281 ug/l  
RT: 12.848 min Scan# 1810  
Delta R.T. 0.265 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

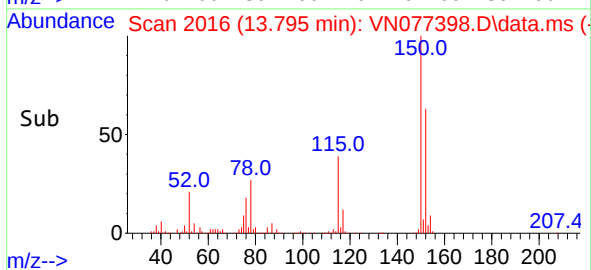
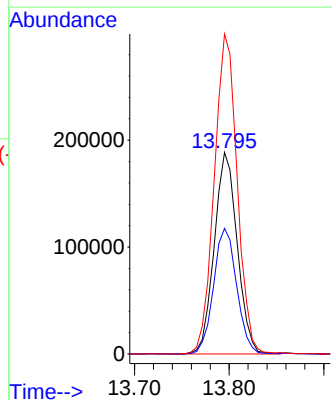
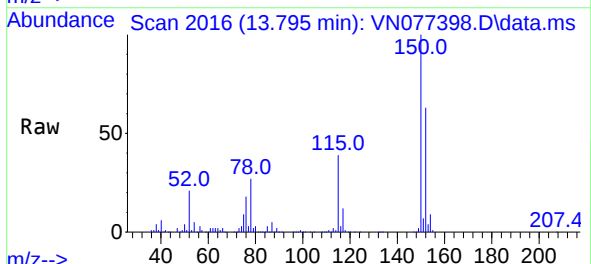
Instrument :  
MSVOA\_N  
ClientSampleId :  
SPB-2WC-23-04-17

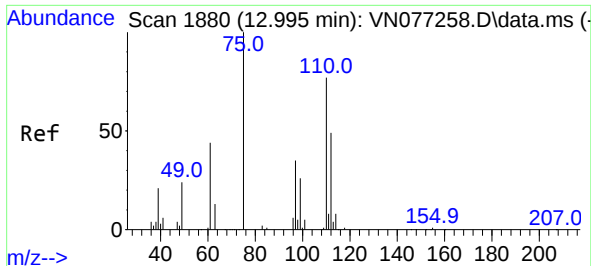
Tgt Ion:173 Resp: 1479  
Ion Ratio Lower Upper  
173 100  
175 1163.2 24.1 72.4#  
254 0.0 0.1 0.1#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.795 min Scan# 2016  
Delta R.T. 0.000 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion:152 Resp: 318252  
Ion Ratio Lower Upper  
152 100  
115 62.6 32.1 96.3  
150 158.9 0.0 354.8

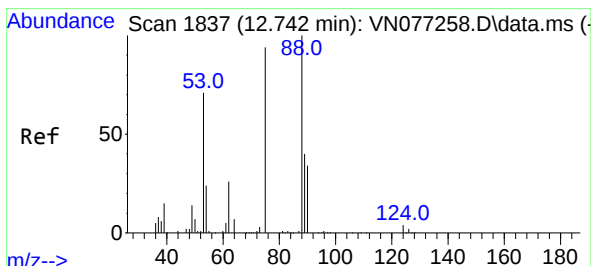
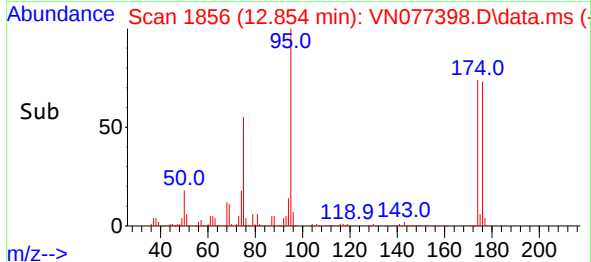
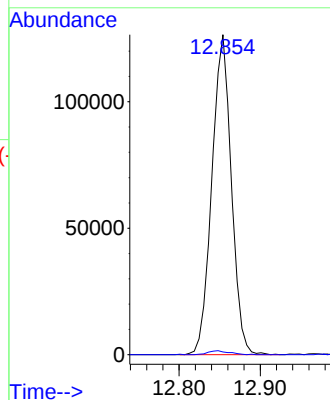
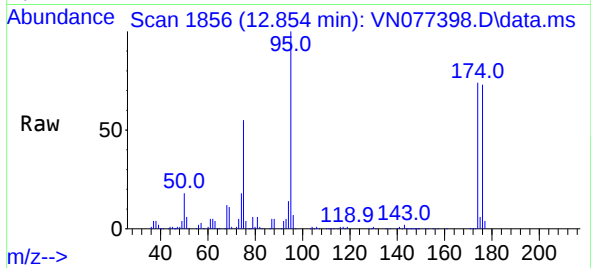




#76  
1,2,3-Trichloropropane  
Concen: 27.804 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. -0.141 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Instrument :  
MSVOA\_N  
ClientSampleId :  
SPB-2WC-23-04-17

Tgt Ion: 75 Resp: 210711  
Ion Ratio Lower Upper  
75 100  
77 1.4 88.3 264.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.568 ug/l  
RT: 12.854 min Scan# 1856  
Delta R.T. 0.112 min  
Lab File: VN077398.D  
Acq: 20 Apr 2023 14:21

Tgt Ion: 75 Resp: 210711  
Ion Ratio Lower Upper  
75 100  
53 0.0 72.8 109.2#  
89 0.0 37.4 56.2#

