

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052623\  
 Data File : VN077926.D  
 Acq On : 26 May 2023 14:41  
 Operator : JC\MD  
 Sample : 02924-03  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 001-002-003-3

Quant Time: May 29 00:29:09 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N051523W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 16 04:07:42 2023  
 Response via : Initial Calibration

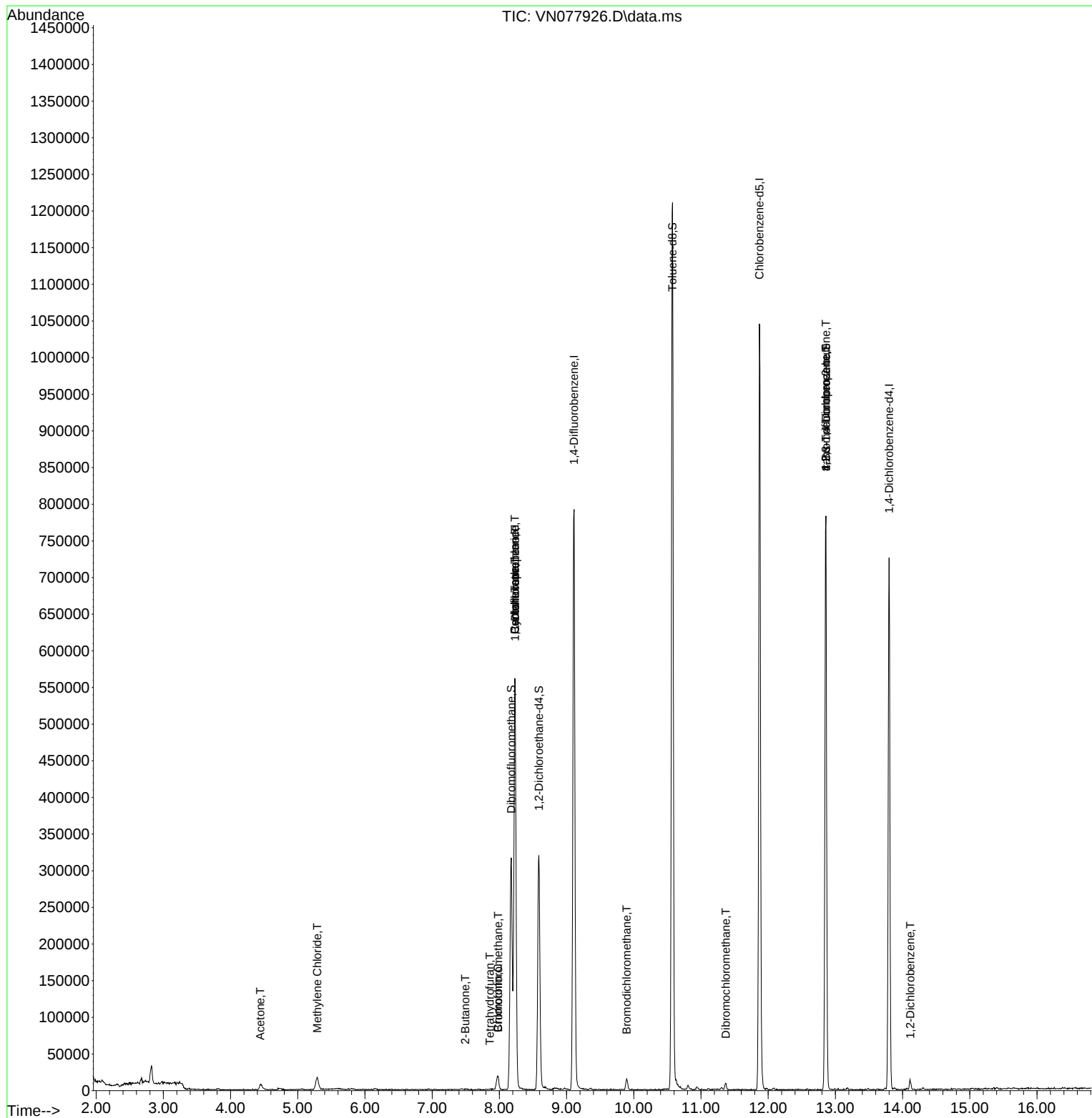
| Compound                      | R.T.           | QIon | Response   | Conc      | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|-------|----------|
| -----                         |                |      |            |           |       |          |
| Internal Standards            |                |      |            |           |       |          |
| 1) Pentafluorobenzene         | 8.230          | 168  | 397747     | 50.000    | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.112          | 114  | 716655     | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.871         | 117  | 627331     | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.800         | 152  | 200469     | 50.000    | ug/l  | 0.00     |
|                               |                |      |            |           |       |          |
| System Monitoring Compounds   |                |      |            |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.588          | 65   | 271081     | 45.550    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 91.100%   |       |          |
| 35) Dibromofluoromethane      | 8.177          | 113  | 228379     | 48.870    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 97.740%   |       |          |
| 50) Toluene-d8                | 10.576         | 98   | 901028     | 50.092    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 100.180%  |       |          |
| 62) 4-Bromofluorobenzene      | 12.859         | 95   | 285679     | 44.969    | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 89.940%   |       |          |
|                               |                |      |            |           |       |          |
| Target Compounds              |                |      |            |           |       |          |
| 3) Chloromethane              | 2.377          | 50   | 1271       | Below Cal |       | 92       |
| 13) Acrolein                  | 4.183          | 56   | 312        | Below Cal | #     | 56       |
| 16) Acetone                   | 4.442          | 43   | 13592      | 7.259     | ug/l  | 91       |
| 20) Methylene Chloride        | 5.289          | 84   | 13181      | 0.759     | ug/l  | 96       |
| 25) 2-Butanone                | 7.494          | 43   | 1437       | 0.491     | ug/l  | # 37     |
| 28) Bromochloromethane        | 7.983          | 49   | 1556       | 0.408     | ug/l  | # 5      |
| 29) Tetrahydrofuran           | 7.859          | 42   | 624        | 0.325     | ug/l  | # 46     |
| 30) Chloroform                | 7.977          | 83   | 19230      | 1.981     | ug/l  | 99       |
| 31) Cyclohexane               | 8.230          | 56   | 9980       | 1.234     | ug/l  | # 28     |
| 36) 1,1-Dichloropropene       | 8.235          | 75   | 34094      | 4.988     | ug/l  | # 47     |
| 38) Carbon Tetrachloride      | 8.230          | 117  | 43715      | 6.333     | ug/l  | # 14     |
| 47) Bromodichloromethane      | 9.894          | 83   | 10566      | 1.499     | ug/l  | # 93     |
| 60) Dibromochloromethane      | 11.371         | 129  | 4725       | 0.918     | ug/l  | 93       |
| 76) 1,2,3-Trichloropropane    | 12.859         | 75   | 156322     | 31.137    | ug/l  | # 1      |
| 81) trans-1,4-Dichloro-2-b... | 12.859         | 75   | 156322     | 99.530    | ug/l  | # 15     |
| 91) 1,2-Dichlorobenzene       | 14.117         | 146  | 5120       | 0.751     | ug/l  | 96       |
| -----                         |                |      |            |           |       |          |

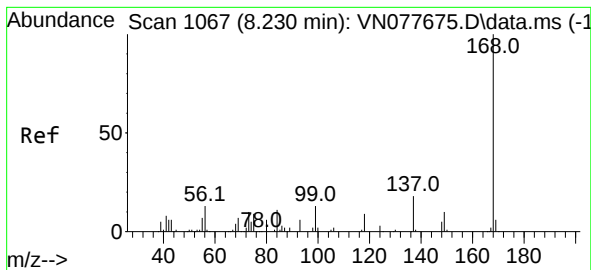
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052623\  
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Quant Title : SW846 8260  
QLast Update : Tue May 16 04:07:42 2023  
Response via : Initial Calibration

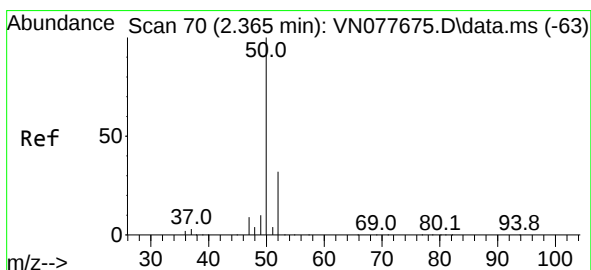
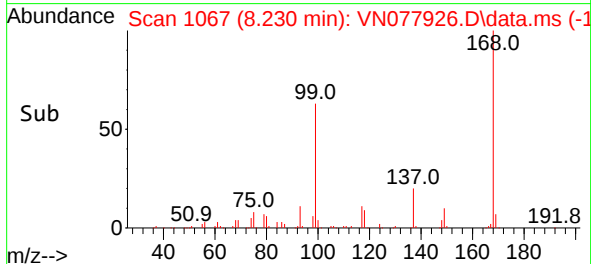
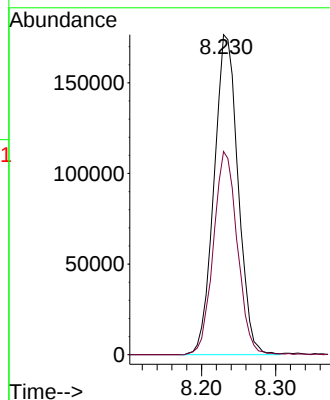
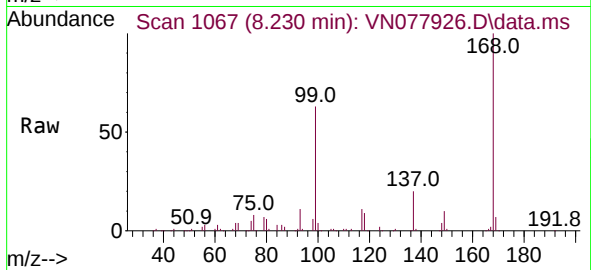




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.000 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

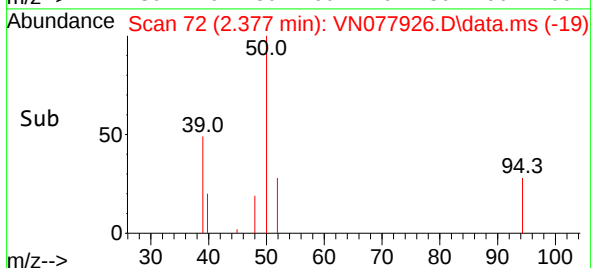
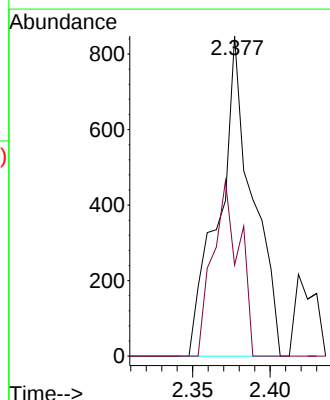
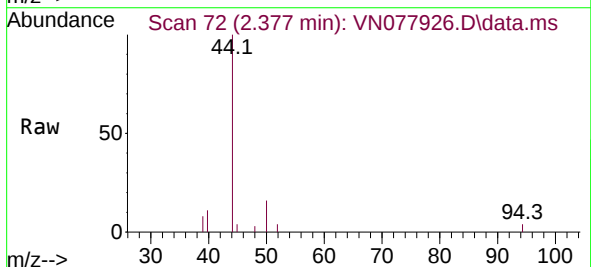
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

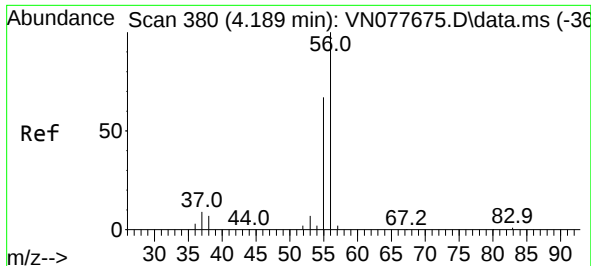
Tgt Ion:168 Resp: 397747  
Ion Ratio Lower Upper  
168 100  
99 63.5 53.0 79.6



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.377 min Scan# 72  
Delta R.T. 0.012 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 50 Resp: 1271  
Ion Ratio Lower Upper  
50 100  
52 28.4 26.5 39.7

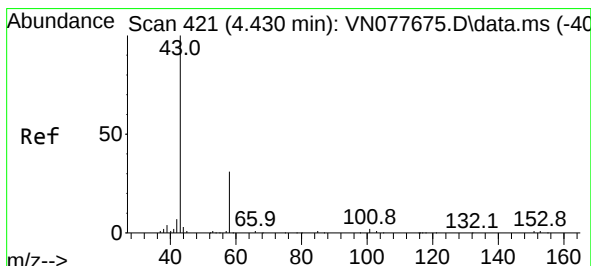
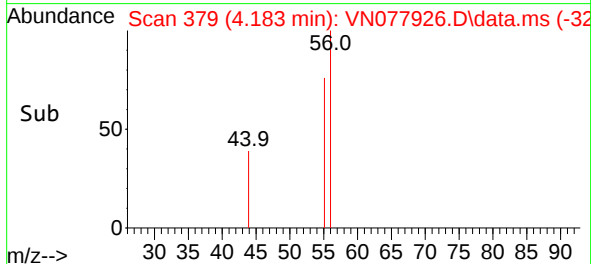
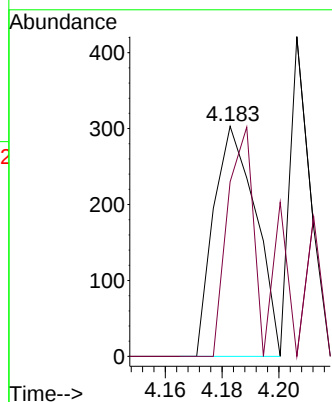
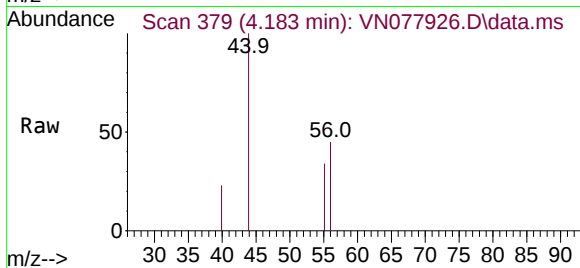




#13  
Acrolein  
Concen: Below Cal  
RT: 4.183 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

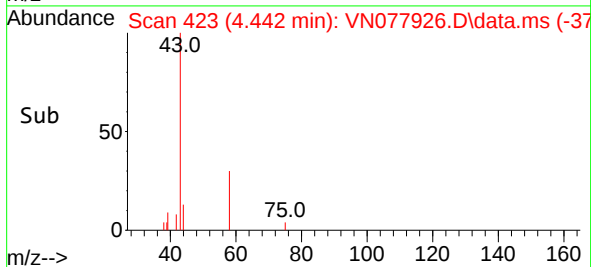
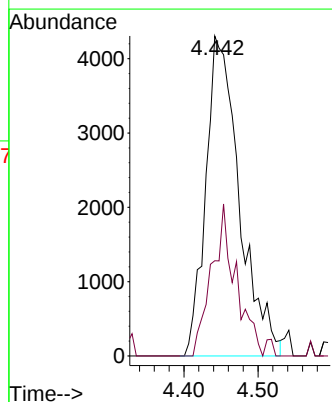
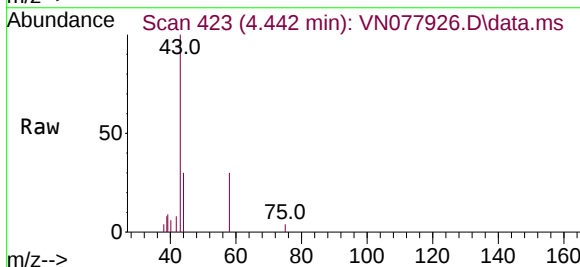
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

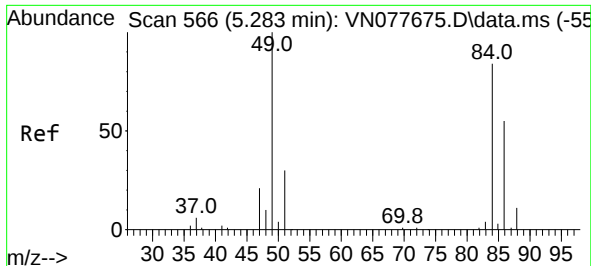
Tgt Ion: 56 Resp: 312  
Ion Ratio Lower Upper  
56 100  
55 103.8 54.5 81.7#



#16  
Acetone  
Concen: 7.259 ug/l  
RT: 4.442 min Scan# 423  
Delta R.T. 0.012 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 43 Resp: 13592  
Ion Ratio Lower Upper  
43 100  
58 29.8 28.0 42.0

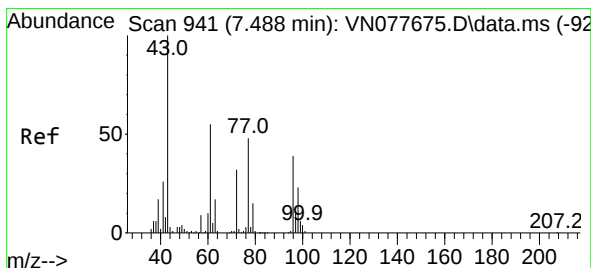
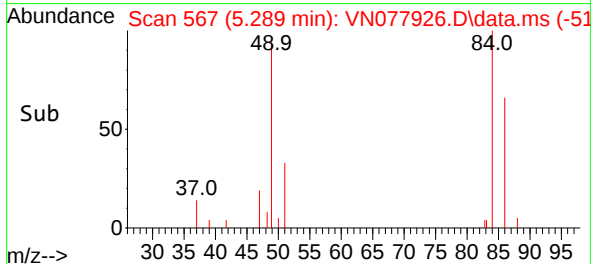
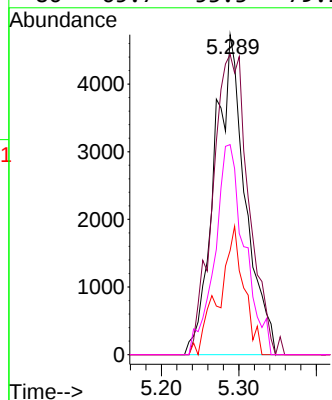
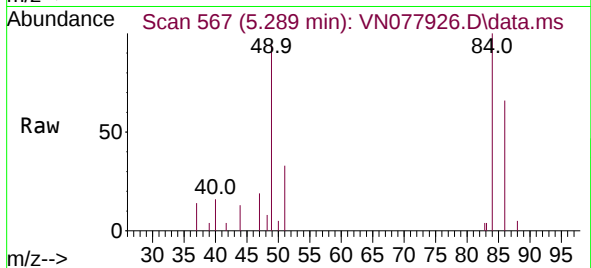




#20  
Methylene Chloride  
Concen: 0.759 ug/l  
RT: 5.289 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

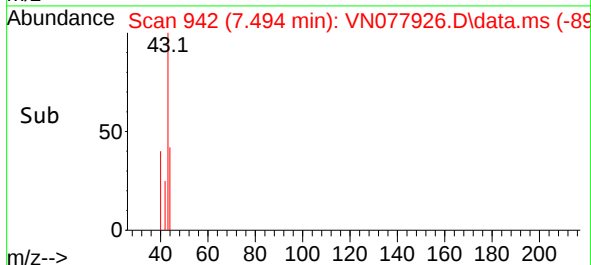
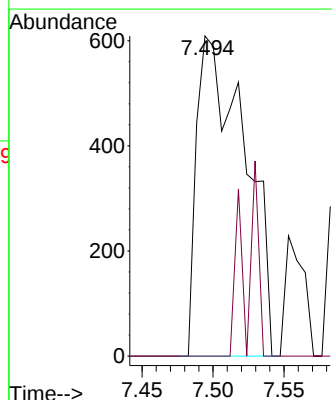
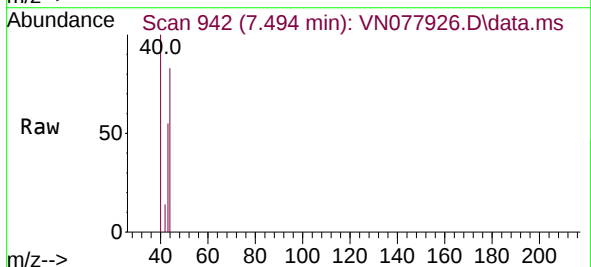
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

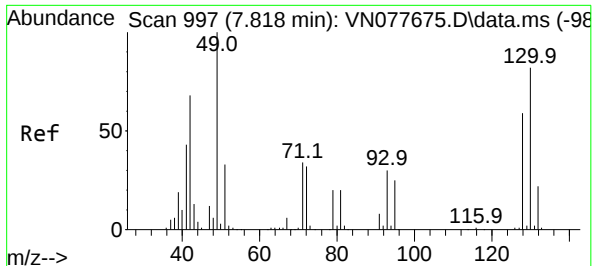
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 13181 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 93.8  | 79.7  | 119.5 |
| 51       | 32.6  | 25.2  | 37.8  |
| 86       | 65.7  | 53.3  | 79.9  |



#25  
2-Butanone  
Concen: 0.491 ug/l  
RT: 7.494 min Scan# 942  
Delta R.T. 0.006 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1437  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 30.2  | 45.2# |

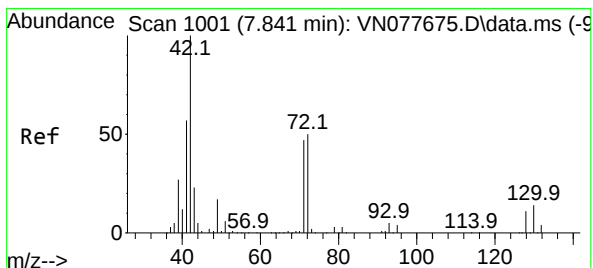
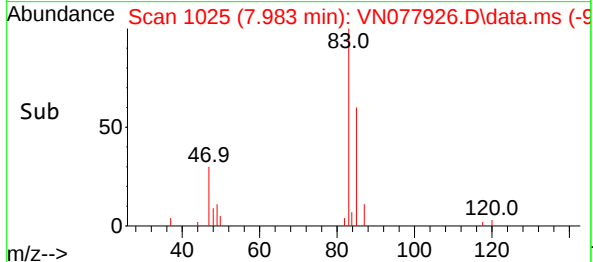
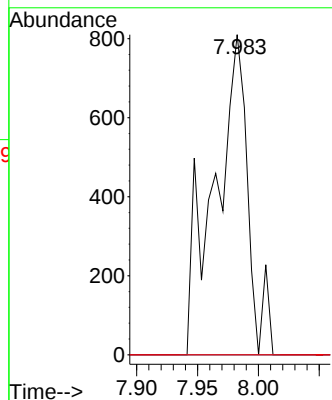
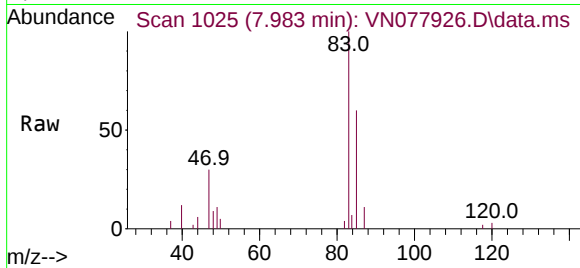




#28  
Bromochloromethane  
Concen: 0.408 ug/l  
RT: 7.983 min Scan# 1025  
Delta R.T. 0.165 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

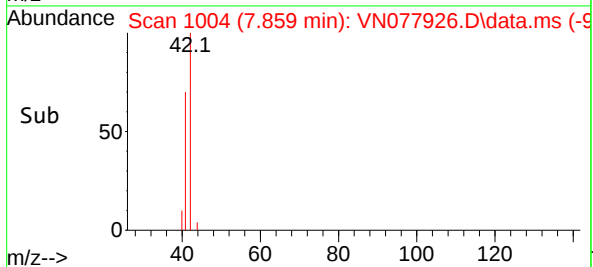
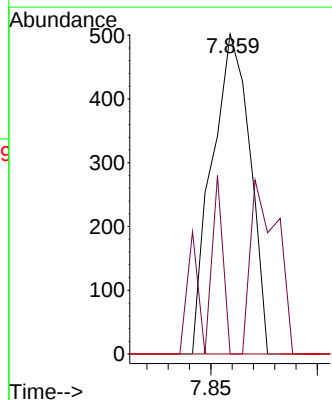
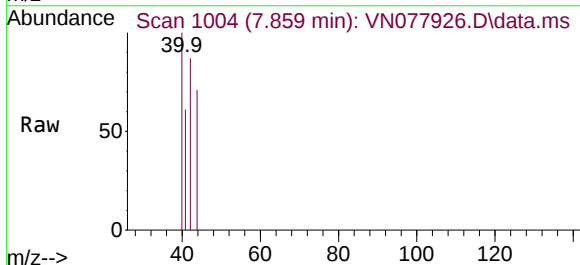
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

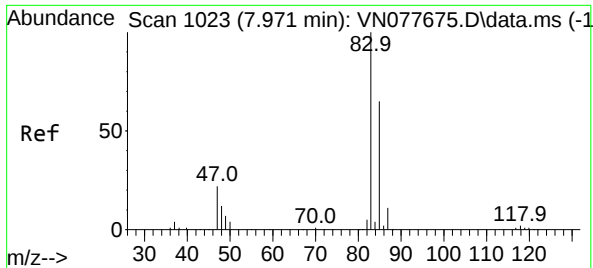
Tgt Ion: 49 Resp: 1556  
Ion Ratio Lower Upper  
49 100  
129 0.0 0.0 4.8  
130 0.0 75.3 112.9#



#29  
Tetrahydrofuran  
Concen: 0.325 ug/l  
RT: 7.859 min Scan# 1004  
Delta R.T. 0.018 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 42 Resp: 624  
Ion Ratio Lower Upper  
42 100  
72 38.3 49.8 74.6#  
71 0.0 47.4 71.2#

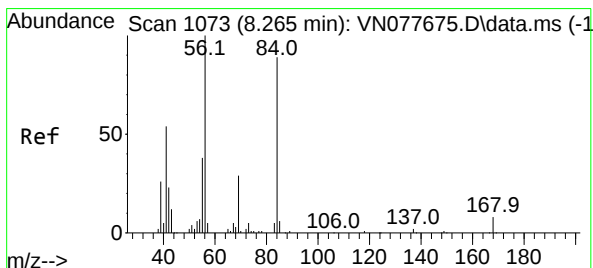
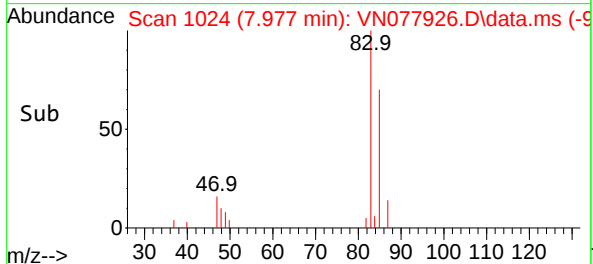
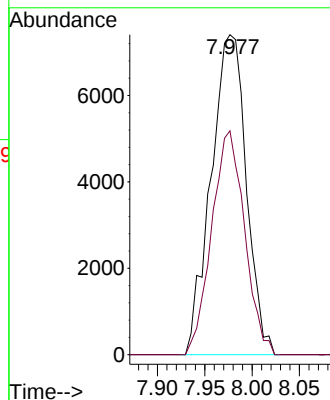
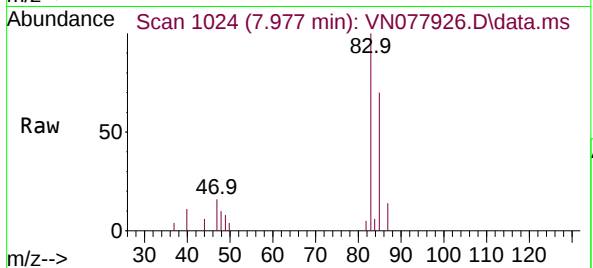




#30  
Chloroform  
Concen: 1.981 ug/l  
RT: 7.977 min Scan# 1024  
Delta R.T. 0.006 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

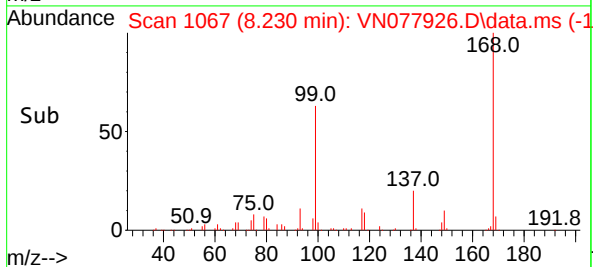
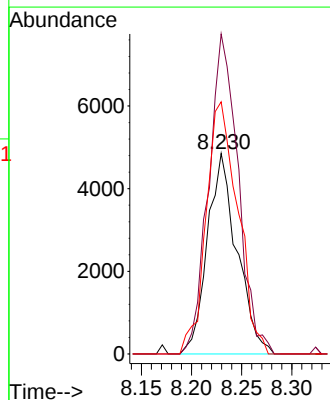
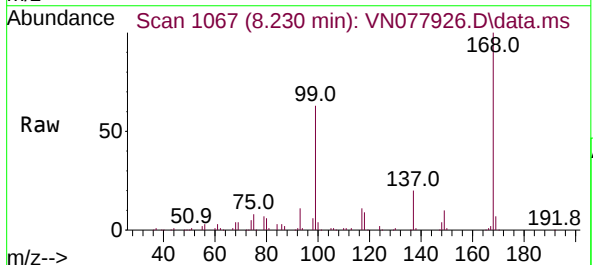
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

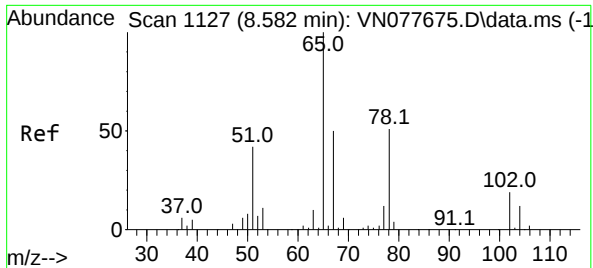
Tgt Ion: 83 Resp: 19230  
Ion Ratio Lower Upper  
83 100  
85 70.0 55.4 83.0



#31  
Cyclohexane  
Concen: 1.234 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.035 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 56 Resp: 9980  
Ion Ratio Lower Upper  
56 100  
69 159.6 26.8 40.2#  
84 125.8 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 45.550 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN077926.D

Acq: 26 May 2023 14:41

Instrument :

MSVOA\_N

ClientSampleId :

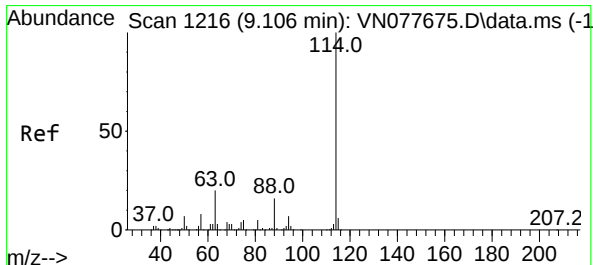
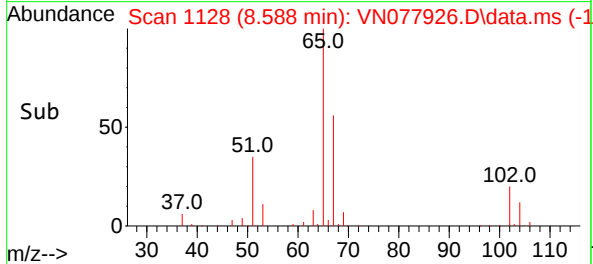
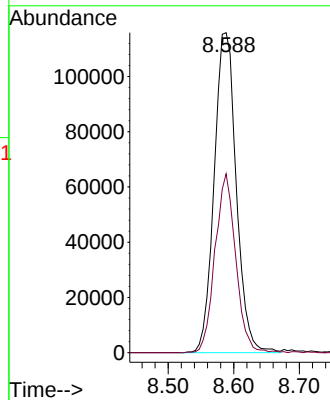
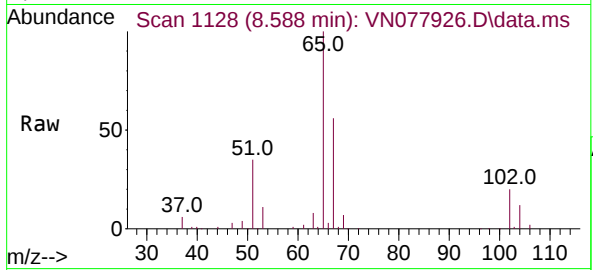
001-002-003-3

Tgt Ion: 65 Resp: 271081

Ion Ratio Lower Upper

65 100

67 52.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN077926.D

Acq: 26 May 2023 14:41

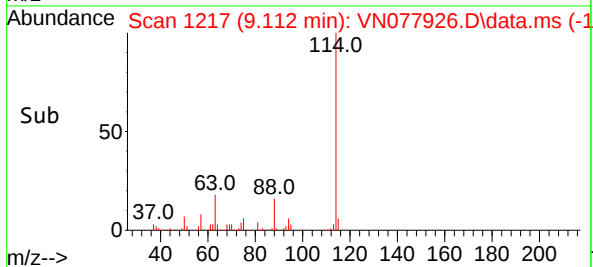
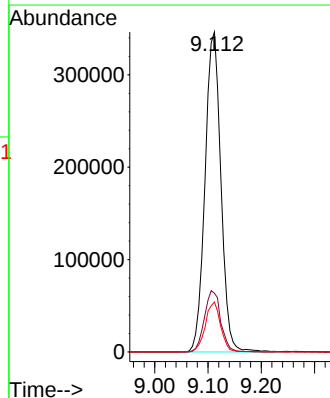
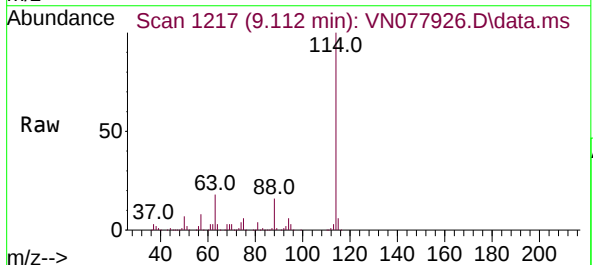
Tgt Ion: 114 Resp: 716655

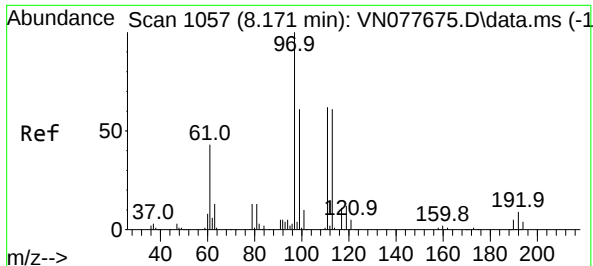
Ion Ratio Lower Upper

114 100

63 18.4 0.0 36.4

88 15.6 0.0 30.6

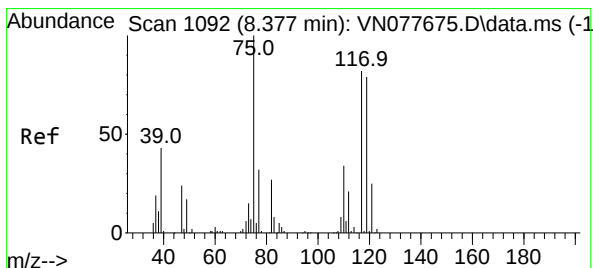
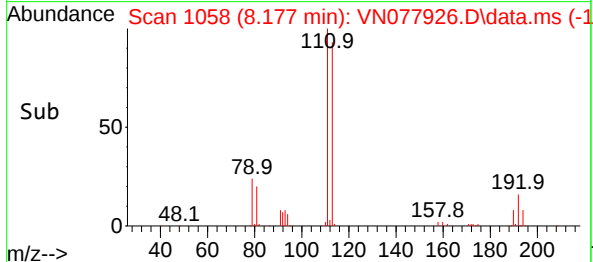
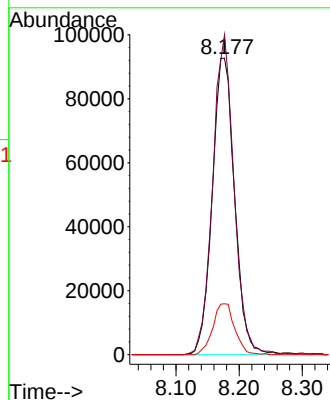
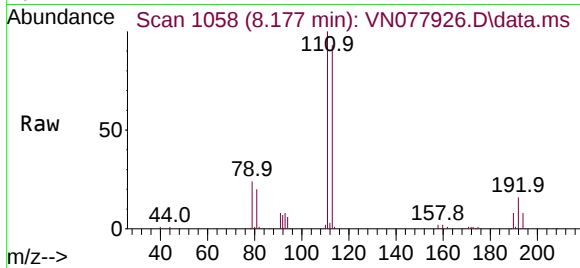




#35  
Dibromofluoromethane  
Concen: 48.870 ug/l  
RT: 8.177 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

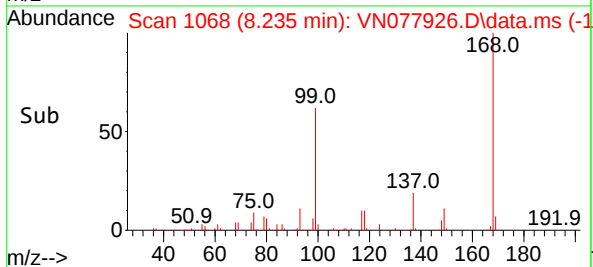
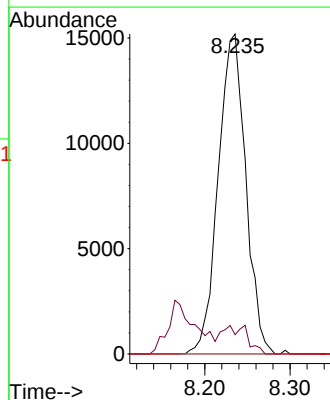
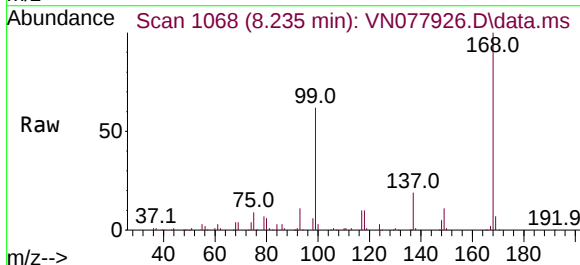
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

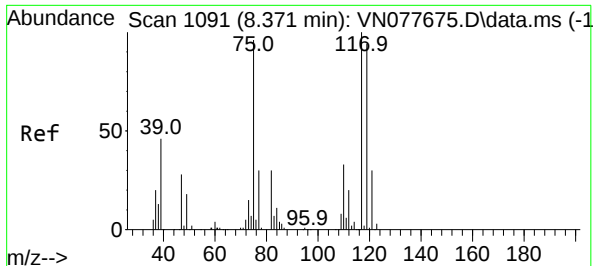
Tgt Ion:113 Resp: 228379  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.6 123.8  
192 16.9 12.7 19.1



#36  
1,1-Dichloropropene  
Concen: 4.988 ug/l  
RT: 8.235 min Scan# 1068  
Delta R.T. -0.142 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 75 Resp: 34094  
Ion Ratio Lower Upper  
75 100  
110 8.3 19.1 57.3#  
77 0.0 25.0 37.4#

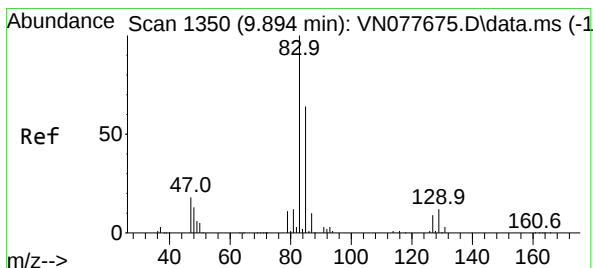
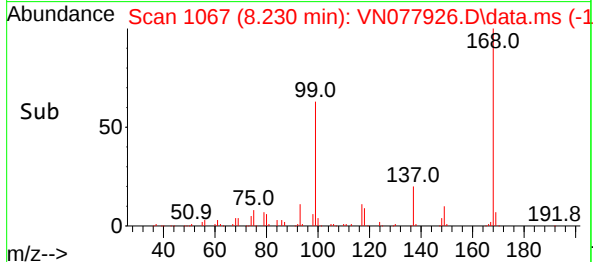
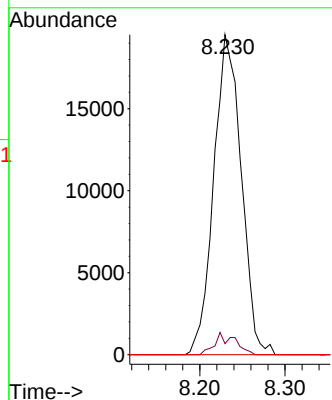
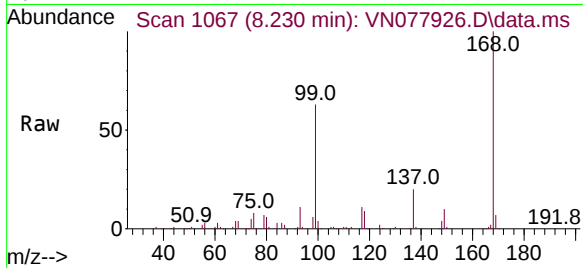




#38  
Carbon Tetrachloride  
Concen: 6.333 ug/l  
RT: 8.230 min Scan# 1067  
Delta R.T. -0.141 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

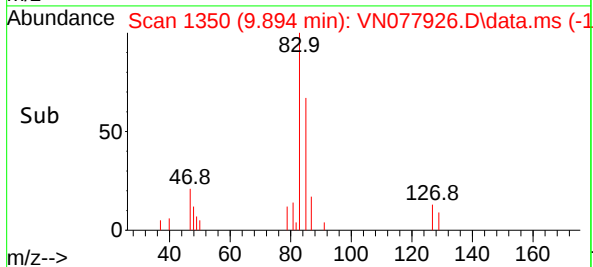
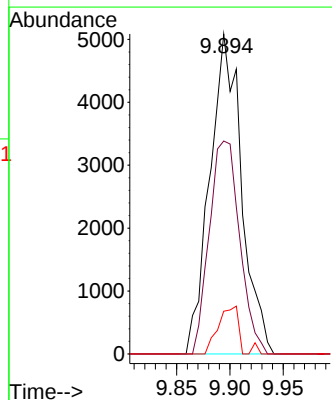
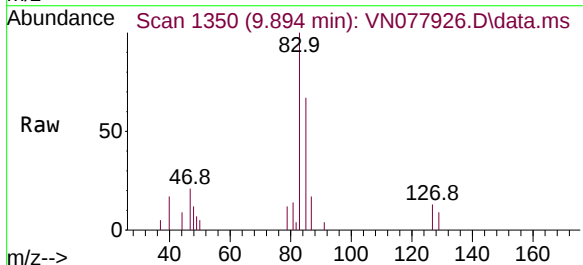
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

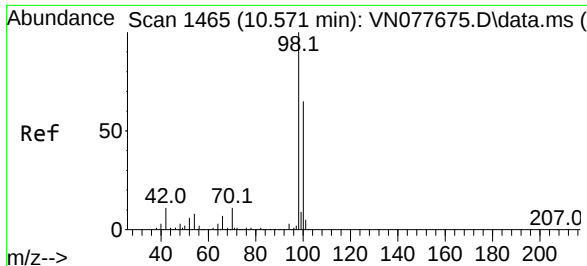
Tgt Ion:117 Resp: 43715  
Ion Ratio Lower Upper  
117 100  
119 3.5 77.3 115.9#  
121 0.0 23.3 34.9#



#47  
Bromodichloromethane  
Concen: 1.499 ug/l  
RT: 9.894 min Scan# 1350  
Delta R.T. 0.000 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 83 Resp: 10566  
Ion Ratio Lower Upper  
83 100  
85 66.5 49.6 74.4  
127 13.3 7.0 10.6#

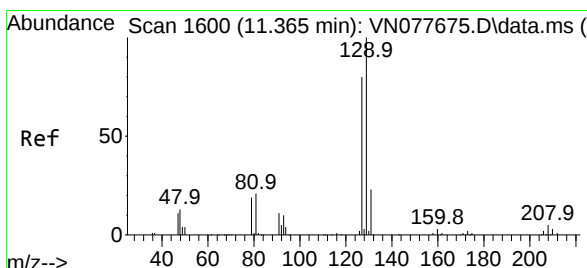
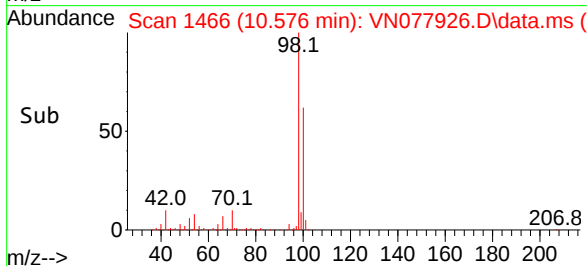
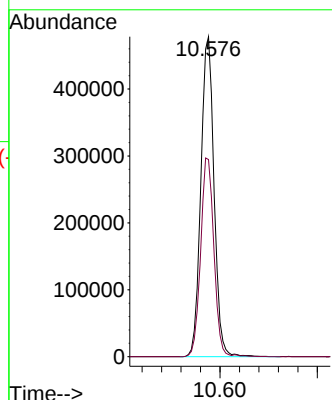
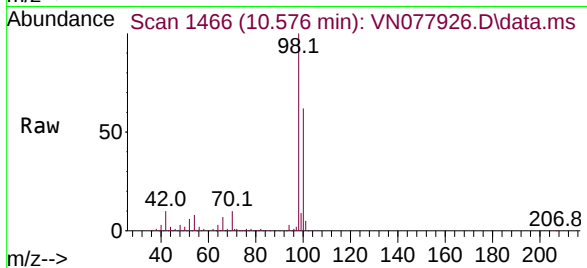




#50  
Toluene-d8  
Concen: 50.092 ug/l  
RT: 10.576 min Scan# 1465  
Delta R.T. 0.005 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

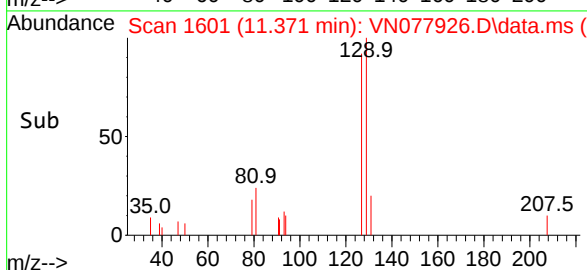
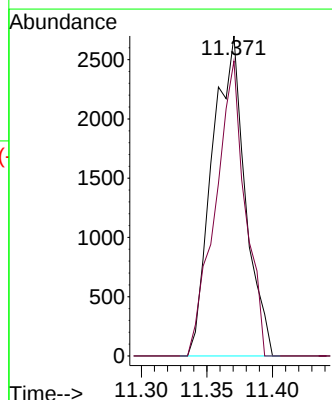
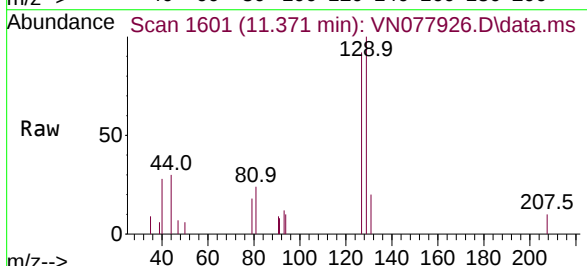
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

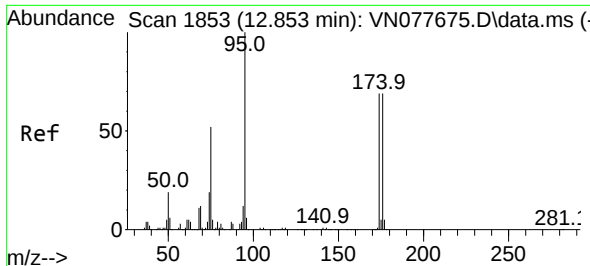
Tgt Ion: 98 Resp: 901028  
Ion Ratio Lower Upper  
98 100  
100 62.6 52.0 78.0



#60  
Dibromochloromethane  
Concen: 0.918 ug/l  
RT: 11.371 min Scan# 1601  
Delta R.T. 0.006 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 129 Resp: 4725  
Ion Ratio Lower Upper  
129 100  
127 83.3 38.6 116.0

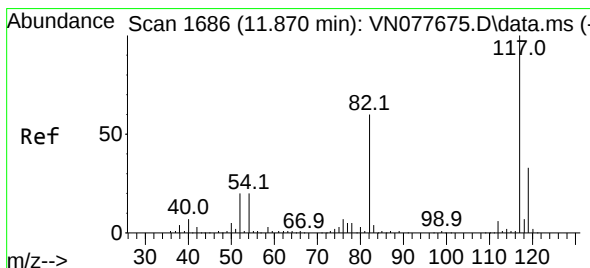
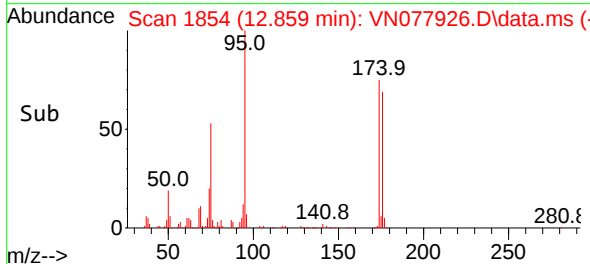
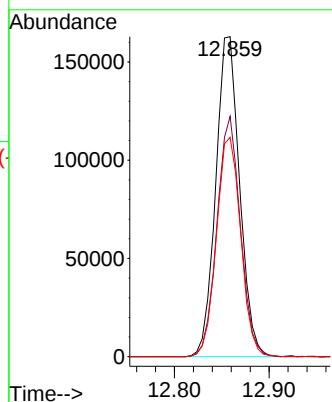
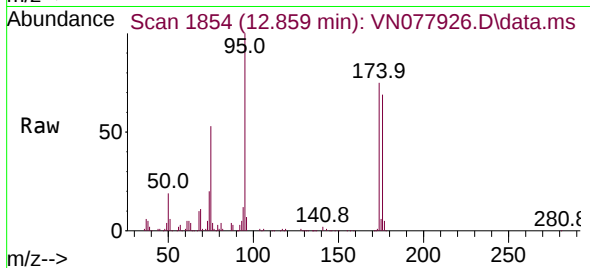




#62  
4-Bromofluorobenzene  
Concen: 44.969 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

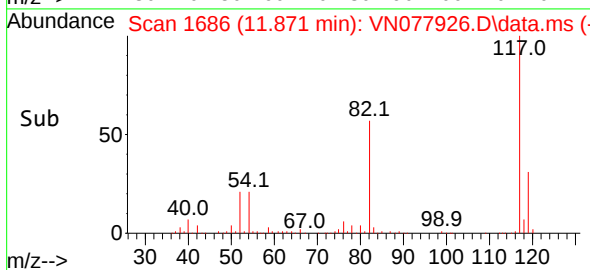
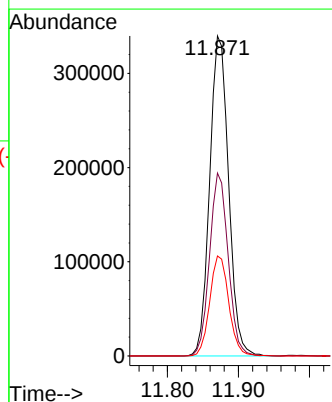
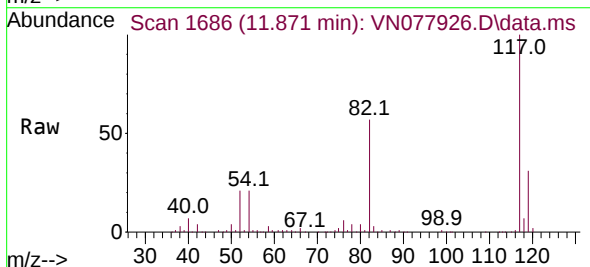
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

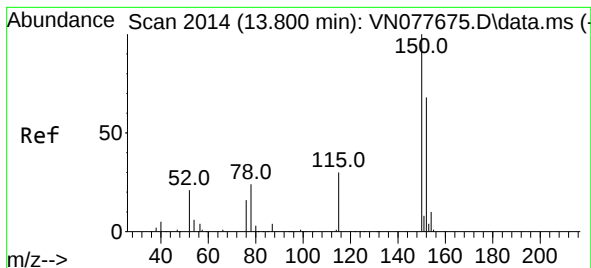
Tgt Ion: 95 Resp: 285679  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 143.8  
176 69.5 0.0 135.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1686  
Delta R.T. 0.001 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 117 Resp: 627331  
Ion Ratio Lower Upper  
117 100  
82 57.2 44.0 66.0  
119 31.2 25.6 38.4

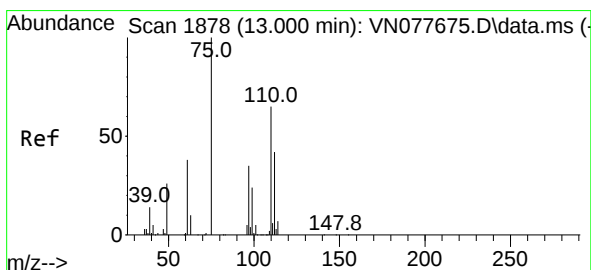
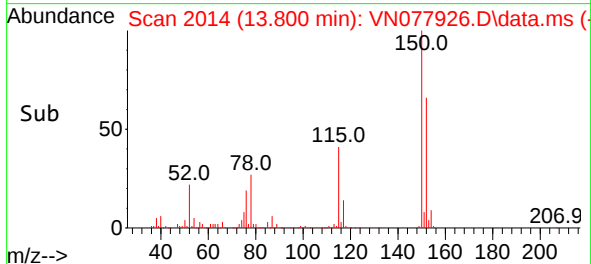
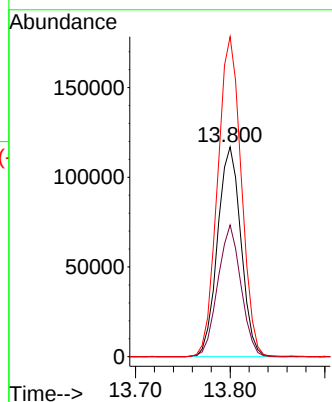
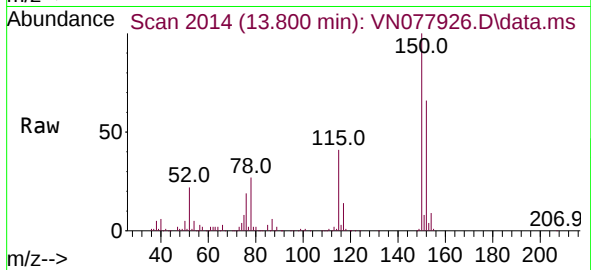




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.800 min Scan# 2014  
Delta R.T. -0.000 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

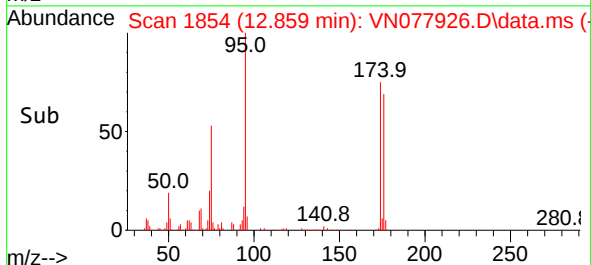
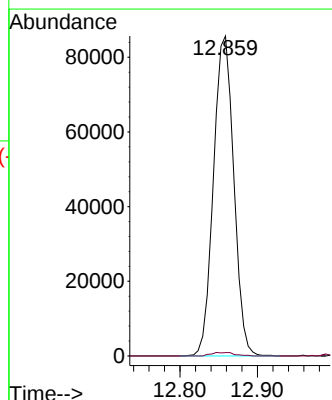
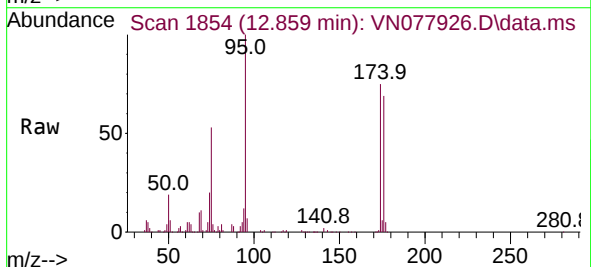
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

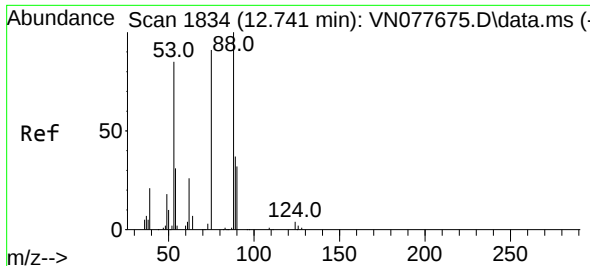
Tgt Ion:152 Resp: 200469  
Ion Ratio Lower Upper  
152 100  
115 62.0 32.3 96.8  
150 154.5 0.0 355.8



#76  
1,2,3-Trichloropropane  
Concen: 31.137 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. -0.141 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion: 75 Resp: 156322  
Ion Ratio Lower Upper  
75 100  
77 1.2 84.5 253.5#

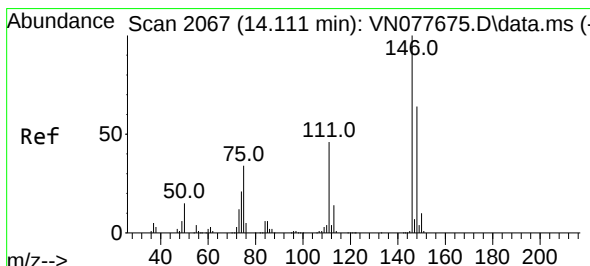
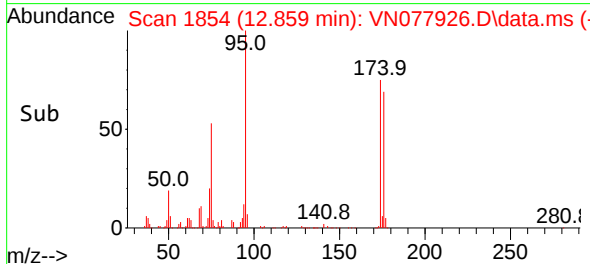
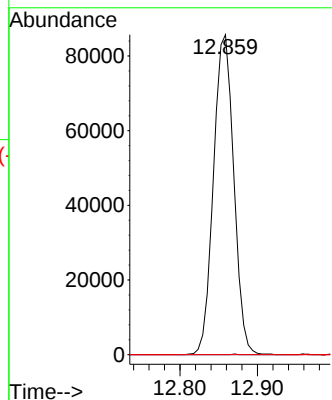
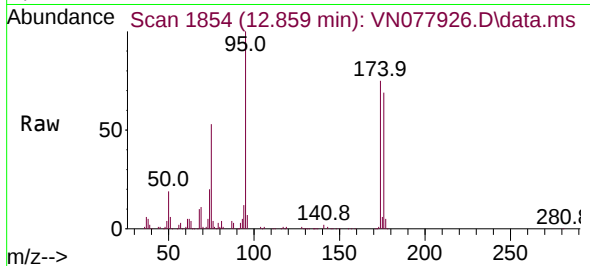




#81  
trans-1,4-Dichloro-2-butene  
Concen: 99.530 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.118 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Instrument :  
MSVOA\_N  
ClientSampleId :  
001-002-003-3

Tgt Ion: 75 Resp: 156322  
Ion Ratio Lower Upper  
75 100  
53 0.0 67.4 101.2#  
89 0.0 38.8 58.2#



#91  
1,2-Dichlorobenzene  
Concen: 0.751 ug/l  
RT: 14.117 min Scan# 2068  
Delta R.T. 0.006 min  
Lab File: VN077926.D  
Acq: 26 May 2023 14:41

Tgt Ion:146 Resp: 5120  
Ion Ratio Lower Upper  
146 100  
111 47.3 22.0 66.0  
148 66.5 31.8 95.3

