

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051923\  
 Data File : VN077775.D  
 Acq On : 19 May 2023 19:33  
 Operator : JC\MD  
 Sample : 02834-14  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP02-20230517

Quant Time: May 19 23:57:24 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

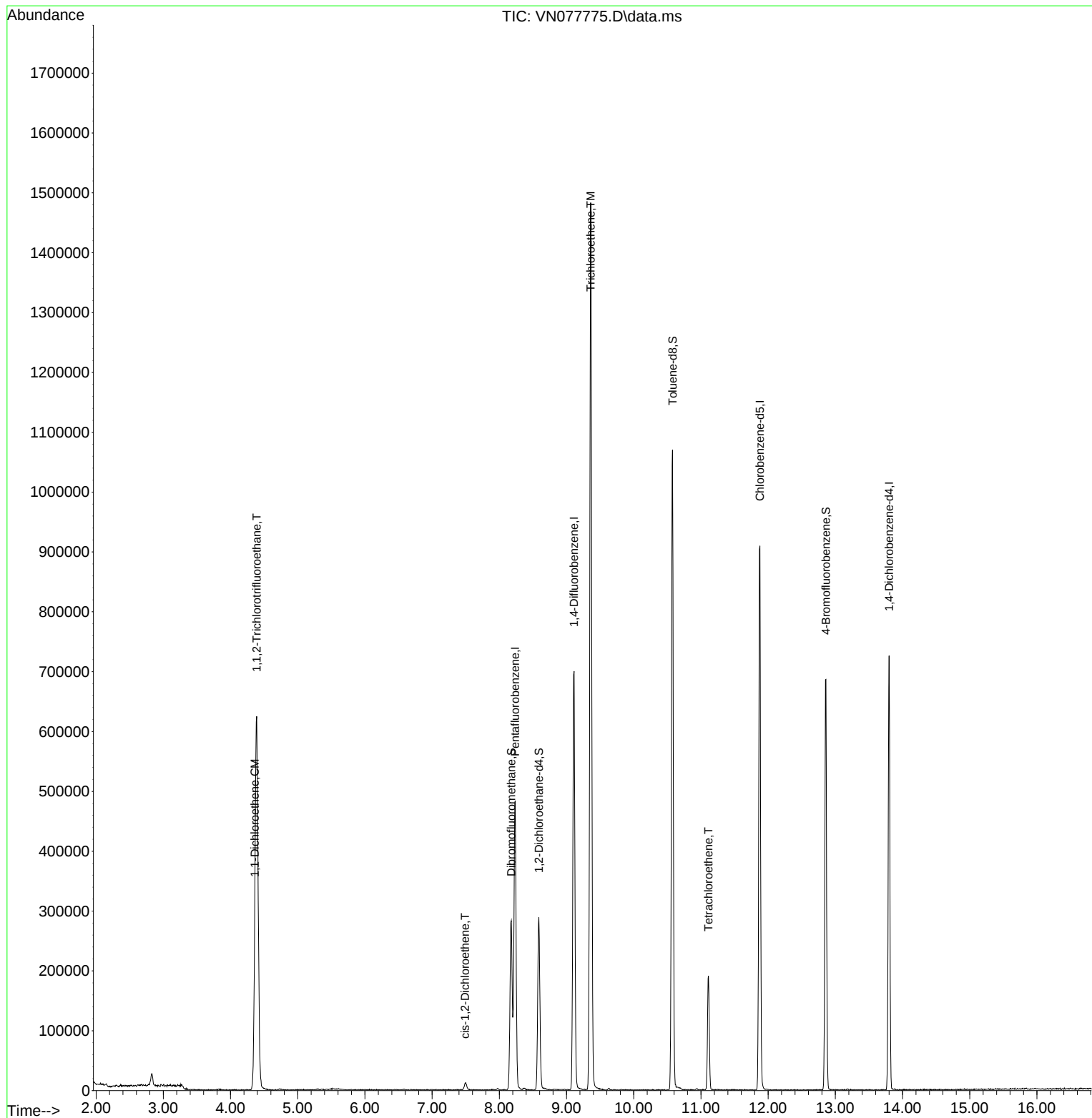
| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 8.236  | 168   | 351937   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.112  | 114   | 633942   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.877 | 117   | 556184   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.800 | 152   | 193853   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.588  | 65    | 242448   | 46.041   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 74 - 125 | Recovery | =      | 92.080%  |
| 35) Dibromofluoromethane     | 8.177  | 113   | 202931   | 49.090   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 75 - 124 | Recovery | =      | 98.180%  |
| 50) Toluene-d8               | 10.577 | 98    | 778533   | 48.929   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 86 - 113 | Recovery | =      | 97.860%  |
| 62) 4-Bromofluorobenzene     | 12.859 | 95    | 252442   | 44.921   | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 83 - 123 | Recovery | =      | 89.840%  |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 9) 1,1,2-Trichlorotrifluo... | 4.389  | 101   | 435993   | 111.948  | ug/l   | 98       |
| 12) 1,1-Dichloroethene       | 4.359  | 96    | 4513     | 1.219    | ug/l # | 73       |
| 27) cis-1,2-Dichloroethene   | 7.489  | 96    | 8234     | 1.652    | ug/l   | 83       |
| 44) Trichloroethene          | 9.359  | 130   | 525561   | 116.327  | ug/l   | 99       |
| 64) Tetrachloroethene        | 11.112 | 164   | 42234    | 10.858   | ug/l   | 96       |
| -----                        |        |       |          |          |        |          |

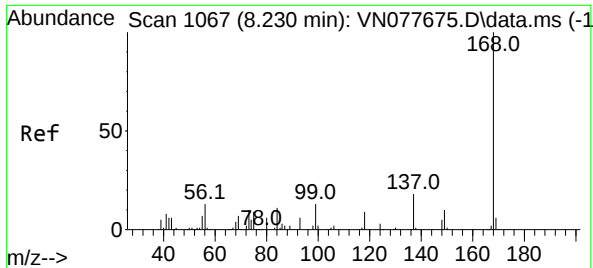
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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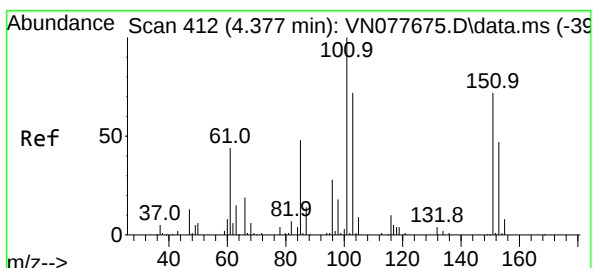
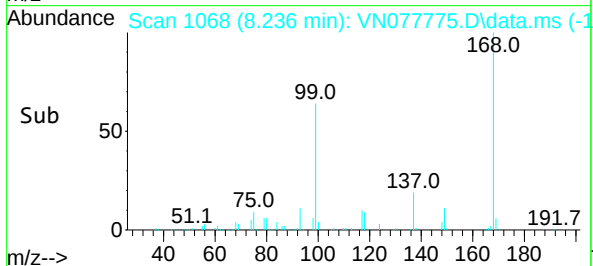
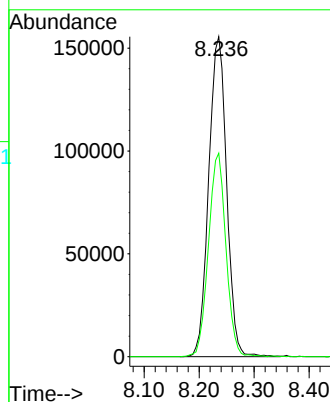
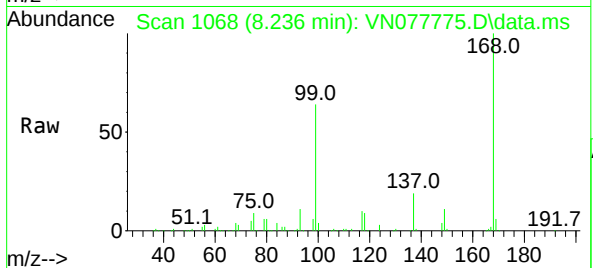




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.236 min Scan# 1067  
Delta R.T. 0.006 min  
Lab File: VN077775.D  
Acq: 19 May 2023 19:33

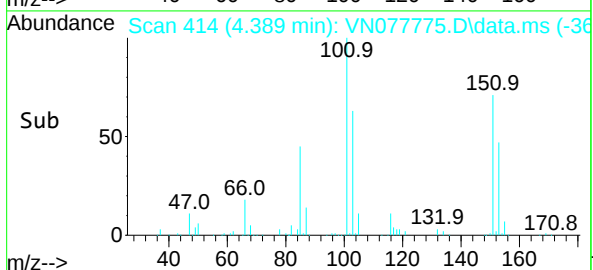
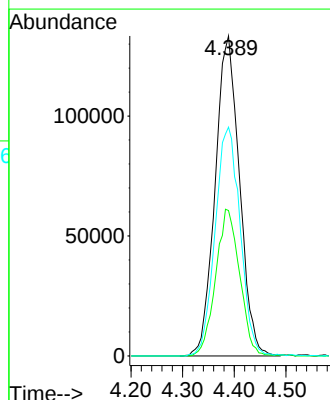
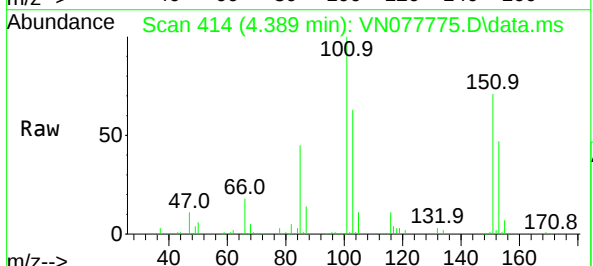
Instrument :  
MSVOA\_N  
ClientSampleId :  
DUP02-20230517

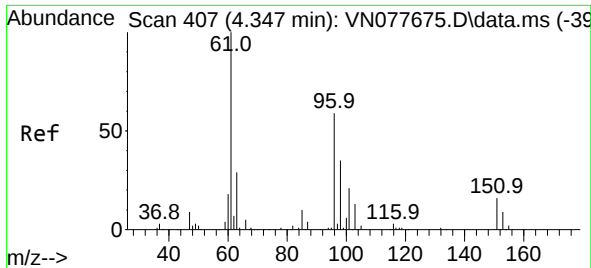
Tgt Ion:168 Resp: 351937  
Ion Ratio Lower Upper  
168 100  
99 63.6 53.0 79.6



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 111.948 ug/l  
RT: 4.389 min Scan# 414  
Delta R.T. 0.012 min  
Lab File: VN077775.D  
Acq: 19 May 2023 19:33

Tgt Ion:101 Resp: 435993  
Ion Ratio Lower Upper  
101 100  
85 45.2 36.6 55.0  
151 73.7 57.6 86.4





#12

1,1-Dichloroethene

Concen: 1.219 ug/l

RT: 4.359 min Scan# 407

Delta R.T. 0.012 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

Instrument :

MSVOA\_N

ClientSampleId :

DUP02-20230517

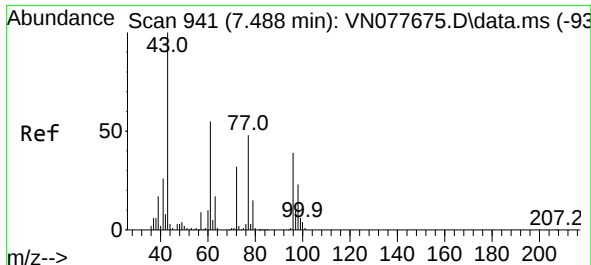
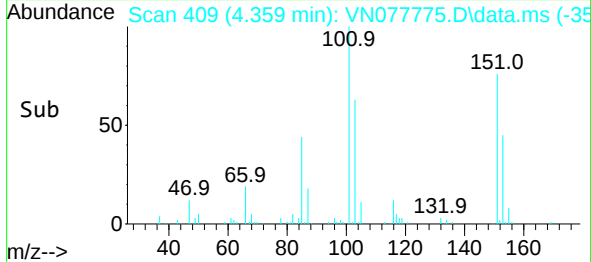
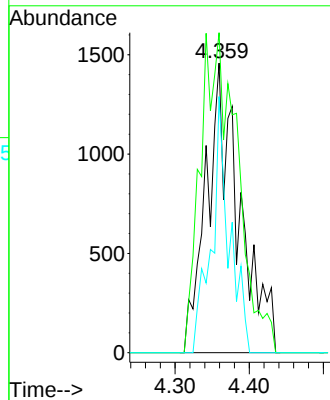
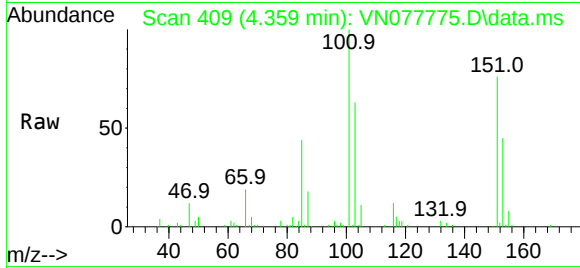
Tgt Ion: 96 Resp: 4513

Ion Ratio Lower Upper

96 100

61 110.5 112.7 169.1#

98 88.5 51.2 76.8#



#27

cis-1,2-Dichloroethene

Concen: 1.652 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.001 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

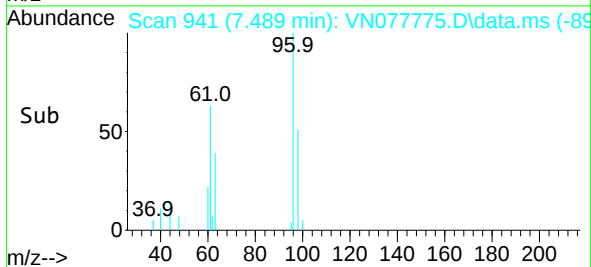
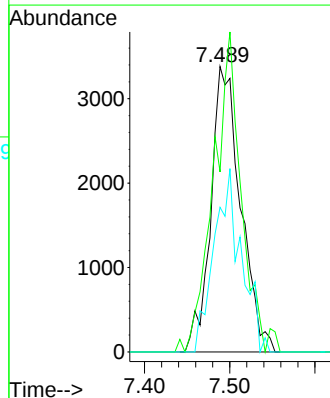
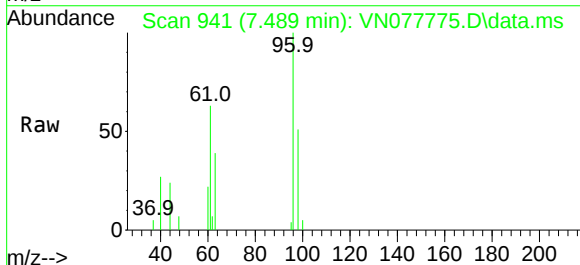
Tgt Ion: 96 Resp: 8234

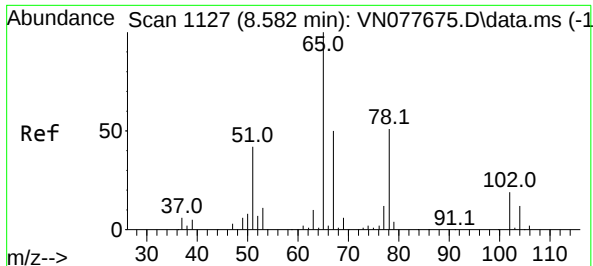
Ion Ratio Lower Upper

96 100

61 102.9 0.0 255.2

98 58.5 0.0 128.8





#33

1,2-Dichloroethane-d4

Concen: 46.041 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

Instrument :

MSVOA\_N

ClientSampleId :

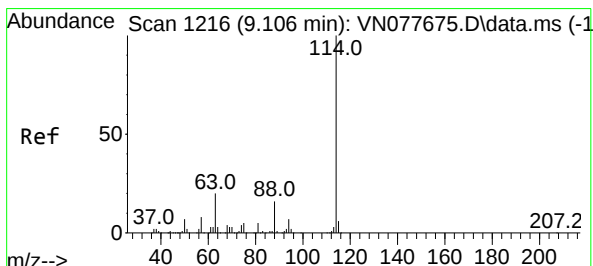
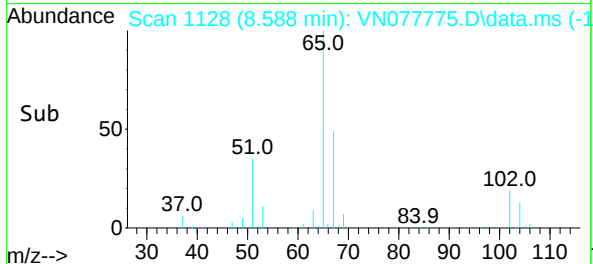
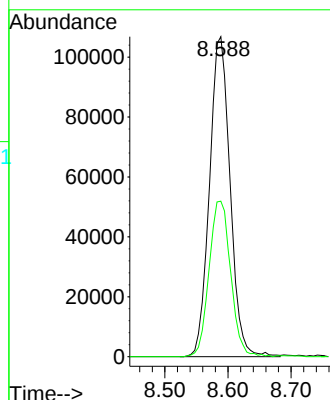
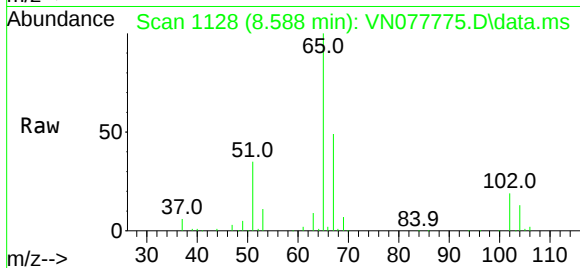
DUP02-20230517

Tgt Ion: 65 Resp: 242448

Ion Ratio Lower Upper

65 100

67 50.9 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: VN077775.D

Acq: 19 May 2023 19:33

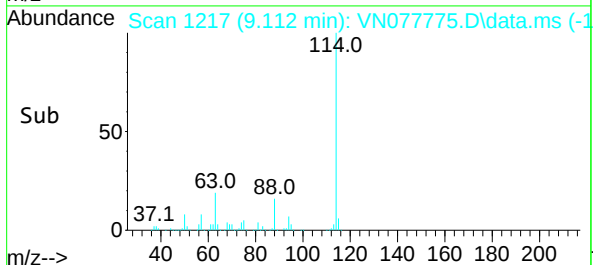
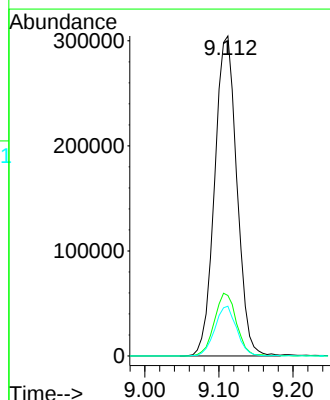
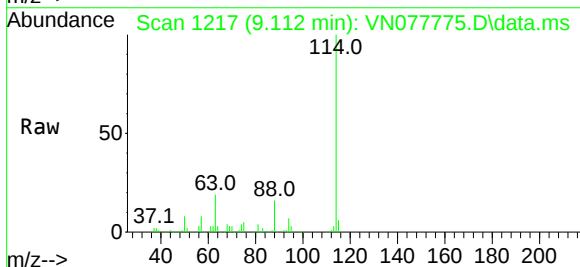
Tgt Ion: 114 Resp: 633942

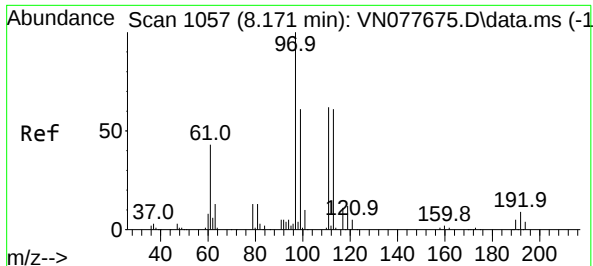
Ion Ratio Lower Upper

114 100

63 18.9 0.0 36.4

88 15.5 0.0 30.6

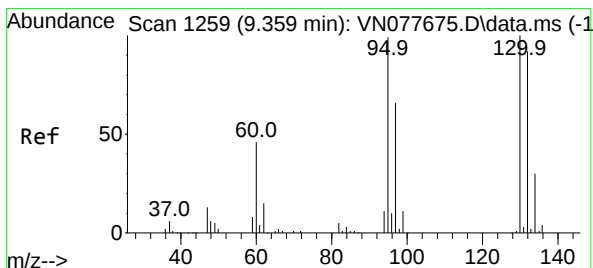
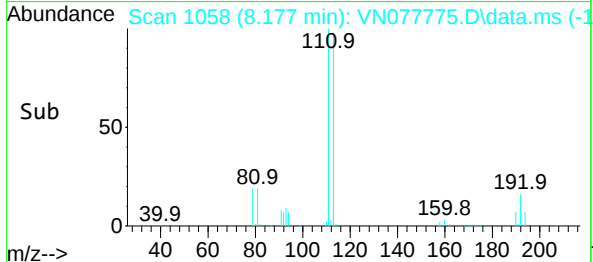
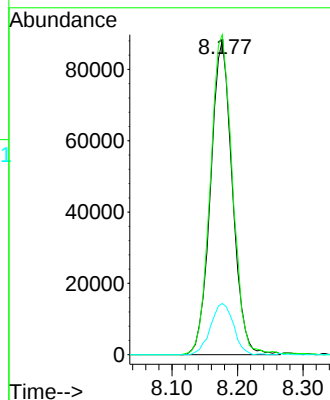
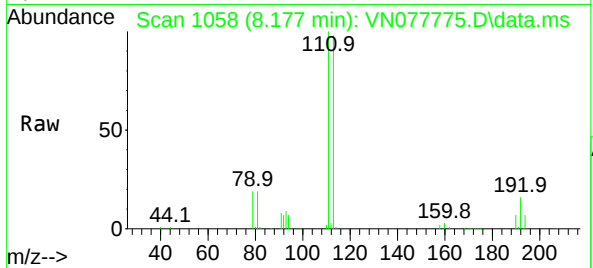




#35  
Dibromofluoromethane  
Concen: 49.090 ug/l  
RT: 8.177 min Scan# 1057  
Delta R.T. 0.006 min  
Lab File: VN077775.D  
Acq: 19 May 2023 19:33

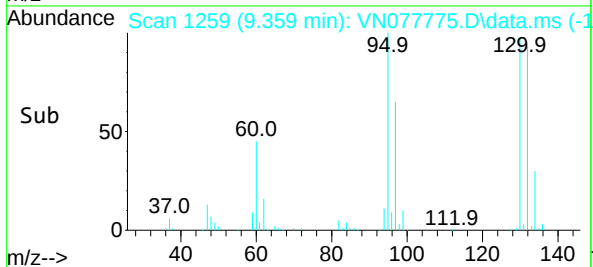
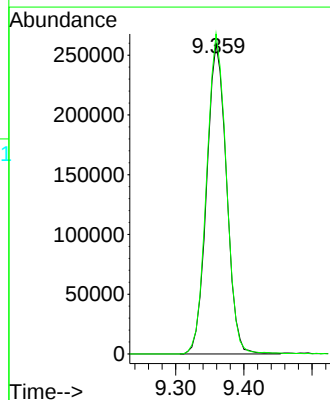
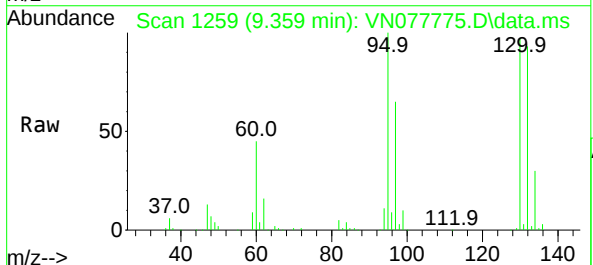
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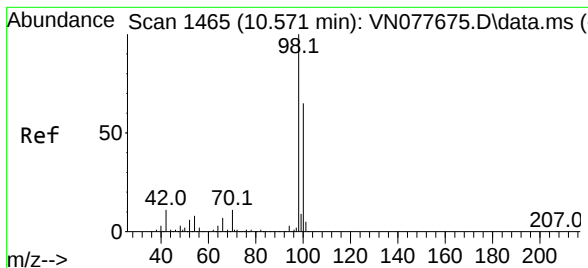
Tgt Ion:113 Resp: 202931  
Ion Ratio Lower Upper  
113 100  
111 104.4 82.6 123.8  
192 17.2 12.7 19.1



#44  
Trichloroethene  
Concen: 116.327 ug/l  
RT: 9.359 min Scan# 1259  
Delta R.T. 0.000 min  
Lab File: VN077775.D  
Acq: 19 May 2023 19:33

Tgt Ion:130 Resp: 525561  
Ion Ratio Lower Upper  
130 100  
95 103.0 0.0 204.6

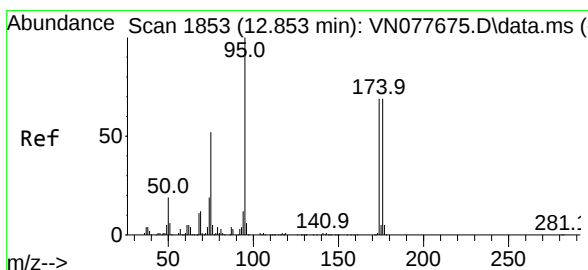
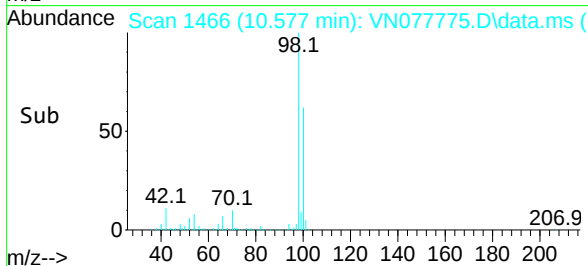
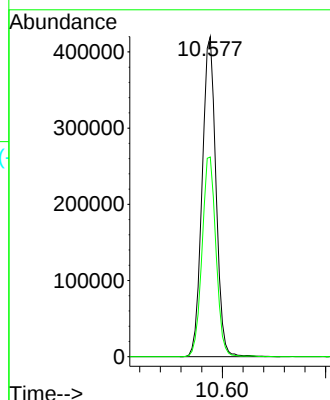
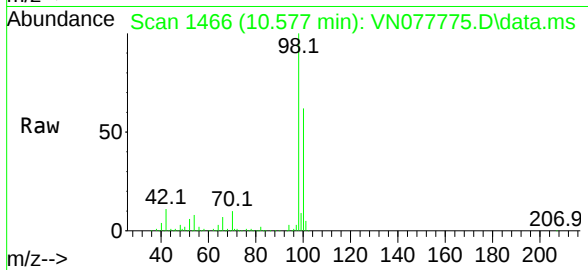




#50  
Toluene-d8  
Concen: 48.929 ug/l  
RT: 10.577 min Scan# 1465  
Delta R.T. 0.006 min  
Lab File: VN077775.D  
Acq: 19 May 2023 19:33

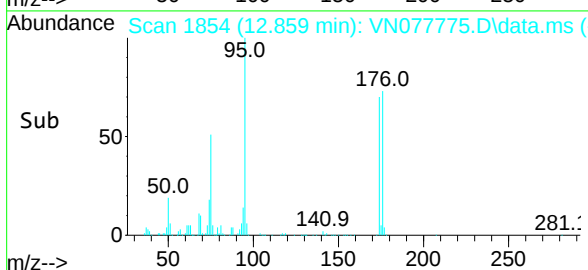
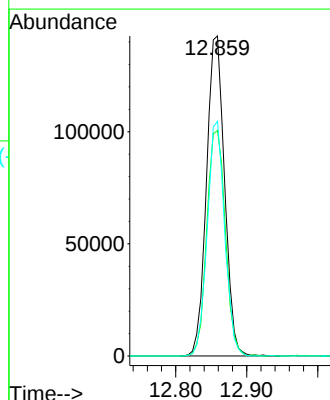
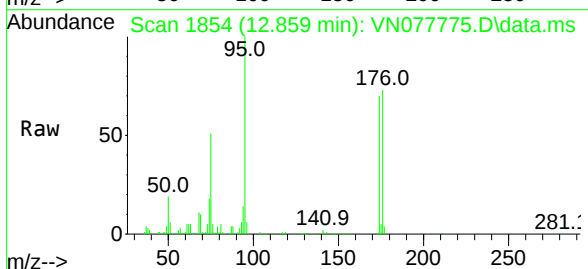
Instrument :  
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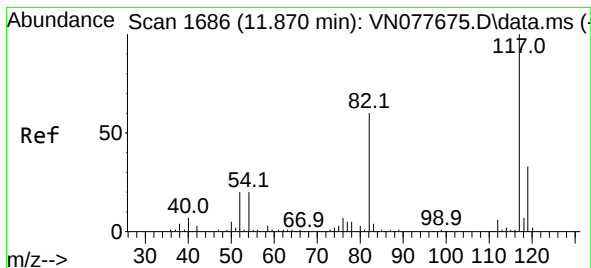
Tgt Ion: 98 Resp: 778533  
Ion Ratio Lower Upper  
98 100  
100 62.9 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 44.921 ug/l  
RT: 12.859 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VN077775.D  
Acq: 19 May 2023 19:33

Tgt Ion: 95 Resp: 252442  
Ion Ratio Lower Upper  
95 100  
174 72.2 0.0 143.8  
176 70.6 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.877 min Scan# 1

Delta R.T. 0.007 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

Instrument :

MSVOA\_N

ClientSampleId :

DUP02-20230517

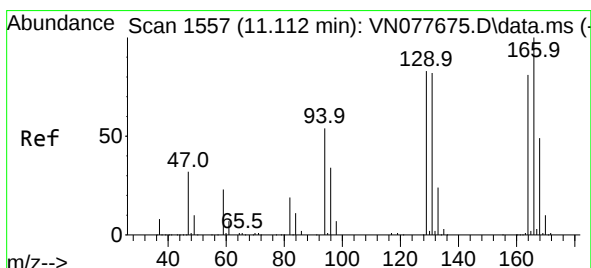
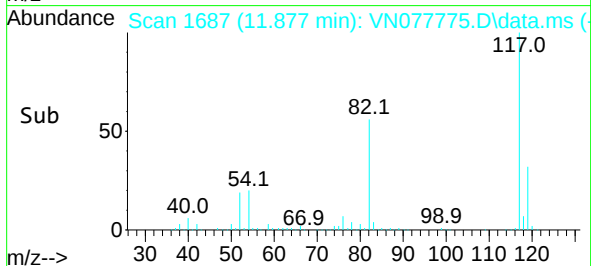
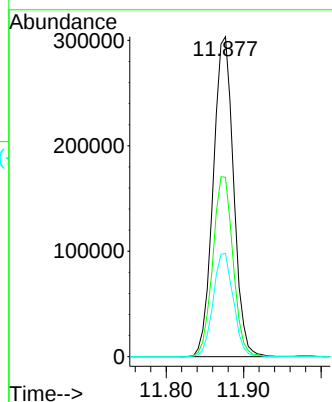
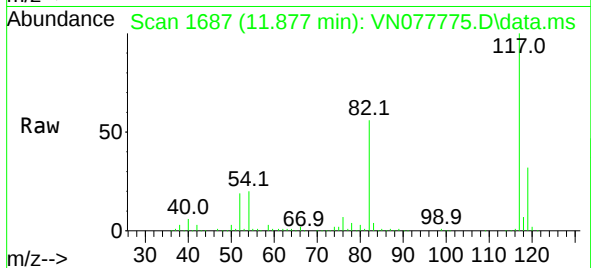
Tgt Ion:117 Resp: 556184

Ion Ratio Lower Upper

117 100

82 56.0 44.0 66.0

119 32.3 25.6 38.4



#64

Tetrachloroethene

Concen: 10.858 ug/l

RT: 11.112 min Scan# 1557

Delta R.T. -0.000 min

Lab File: VN077775.D

Acq: 19 May 2023 19:33

Tgt Ion:164 Resp: 42234

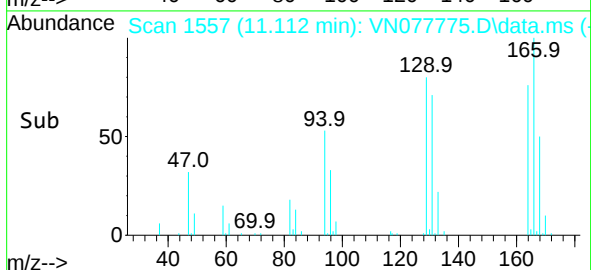
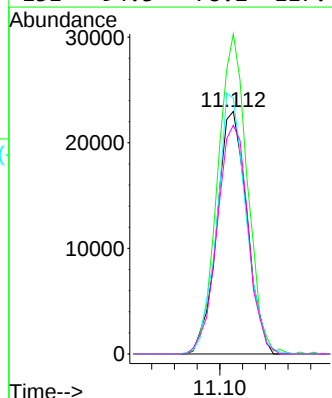
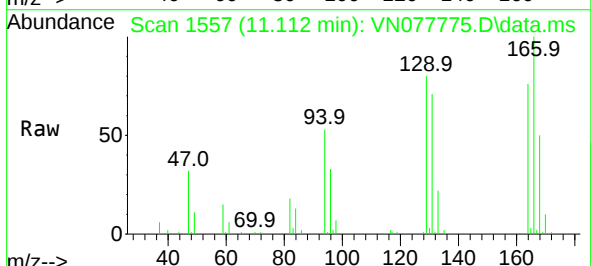
Ion Ratio Lower Upper

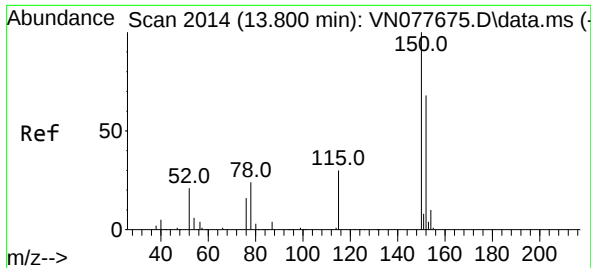
164 100

166 131.9 101.4 152.0

129 105.4 82.4 123.6

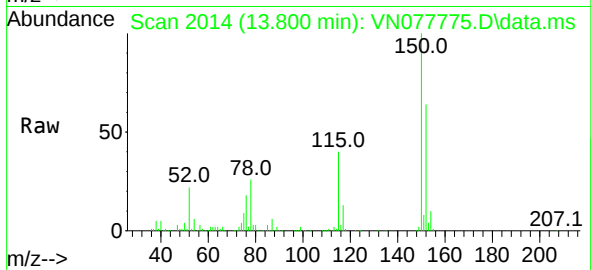
131 94.3 78.2 117.4





#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.800 min Scan# 20  
 Delta R.T. -0.000 min  
 Lab File: VN077775.D  
 Acq: 19 May 2023 19:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 DUP02-20230517



Tgt Ion:152 Resp: 193853  
 Ion Ratio Lower Upper  
 152 100  
 115 62.6 32.3 96.8  
 150 159.2 0.0 355.8

