

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120922\  
 Data File : VN075693.D  
 Acq On : 10 Dec 2022 06:22  
 Operator : JC\MD  
 Sample : N5989-11  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-27

Quant Time: Dec 12 04:56:07 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120922W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 12 03:01:58 2022  
 Response via : Initial Calibration

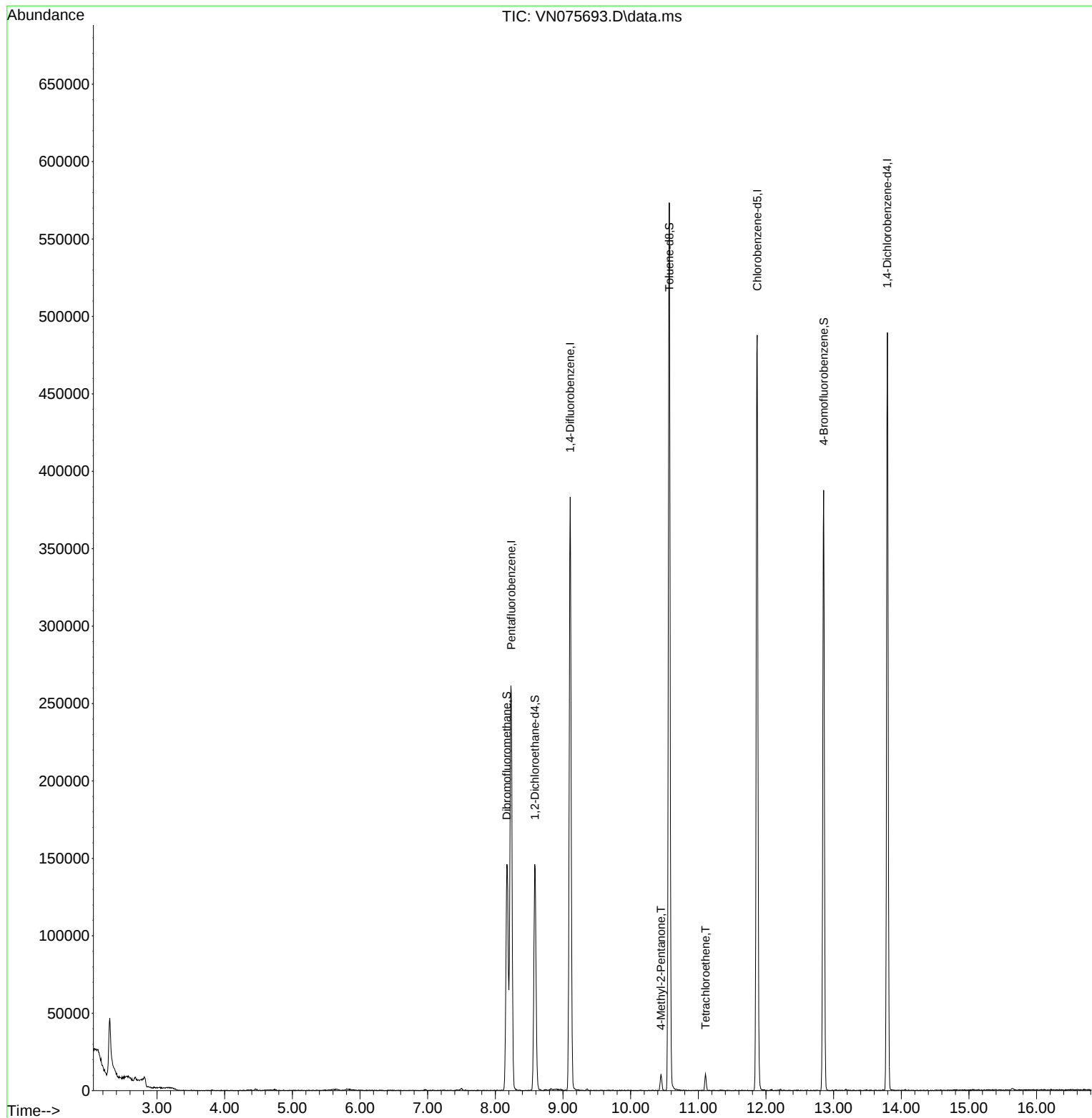
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 8.235  | 168   | 210975   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.106  | 114   | 350286   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.871 | 117   | 312182   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.794 | 152   | 138833   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.582  | 65    | 118222   | 52.813   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 105.620% |          |
| 35) Dibromofluoromethane    | 8.171  | 113   | 107204   | 50.162   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 100.320% |          |
| 50) Toluene-d8              | 10.571 | 98    | 409862   | 51.067   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 102.140% |          |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 129744   | 47.281   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 94.560%  |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          |            | Qvalue   |
| 51) 4-Methyl-2-Pentanone    | 10.447 | 43    | 6745     | 2.876    | ug/l       | 98       |
| 64) Tetrachloroethene       | 11.106 | 164   | 2553     | 1.123    | ug/l       | 97       |
| -----                       |        |       |          |          |            |          |

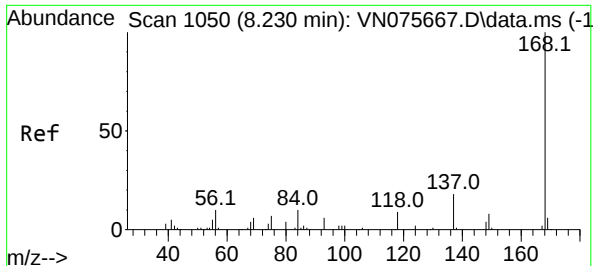
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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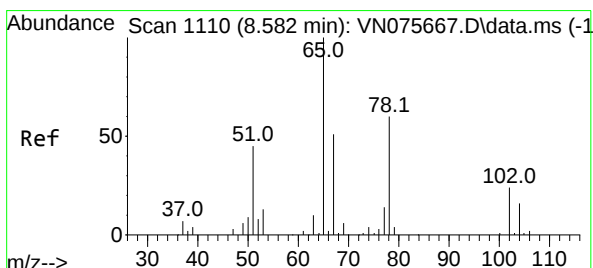
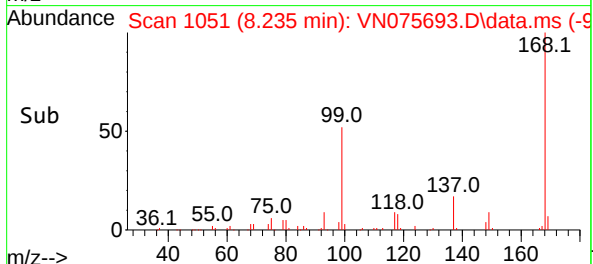
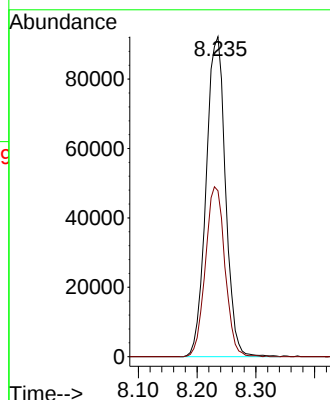
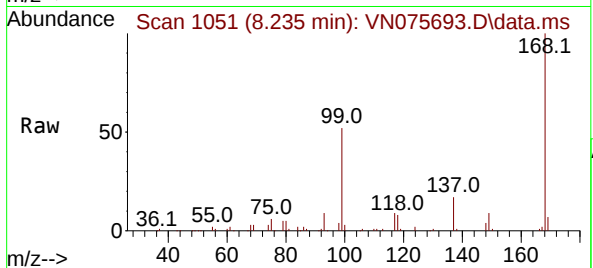




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.235 min Scan# 110  
Delta R.T. 0.005 min  
Lab File: VN075693.D  
Acq: 10 Dec 2022 06:22

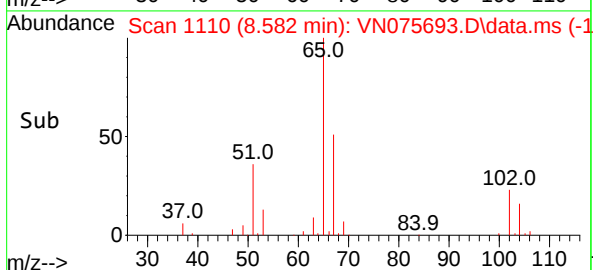
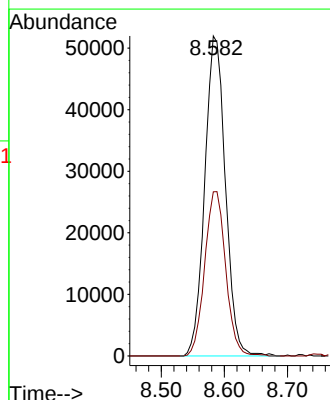
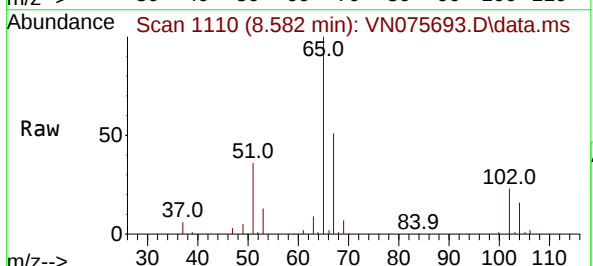
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-27

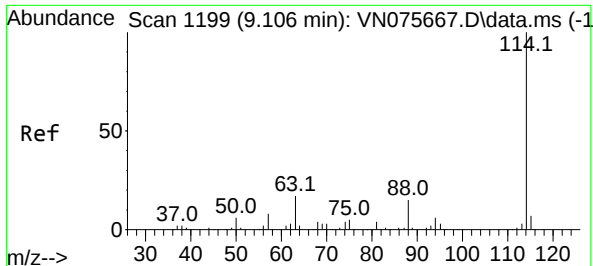
Tgt Ion:168 Resp: 210975  
Ion Ratio Lower Upper  
168 100  
99 51.8 41.2 61.8



#33  
1,2-Dichloroethane-d4  
Concen: 52.813 ug/l  
RT: 8.582 min Scan# 1110  
Delta R.T. 0.000 min  
Lab File: VN075693.D  
Acq: 10 Dec 2022 06:22

Tgt Ion: 65 Resp: 118222  
Ion Ratio Lower Upper  
65 100  
67 52.1 0.0 104.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075693.D

Acq: 10 Dec 2022 06:22

Instrument :

MSVOA\_N

ClientSampleId :

MW-27

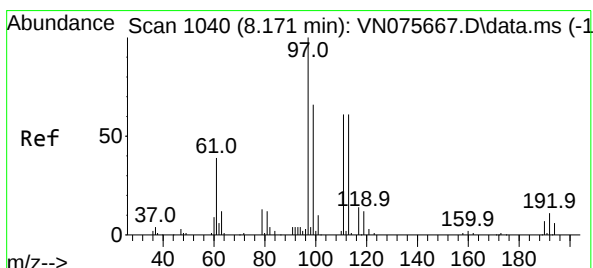
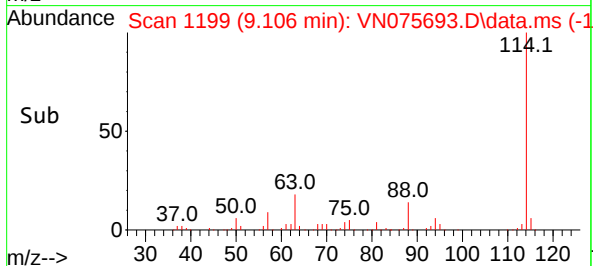
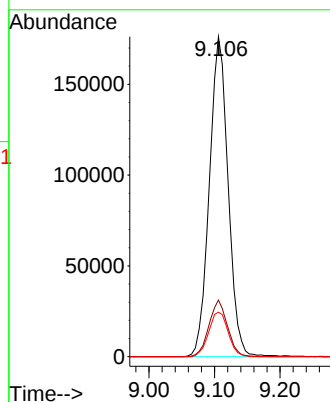
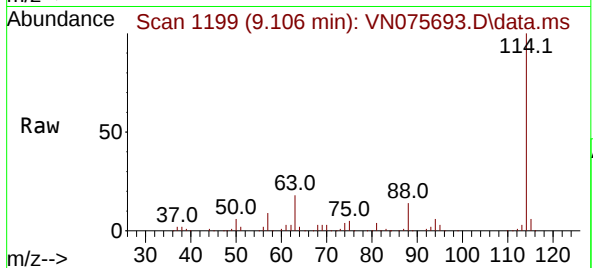
Tgt Ion:114 Resp: 350286

Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.4

88 13.9 0.0 29.2



#35

Dibromofluoromethane

Concen: 50.162 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VN075693.D

Acq: 10 Dec 2022 06:22

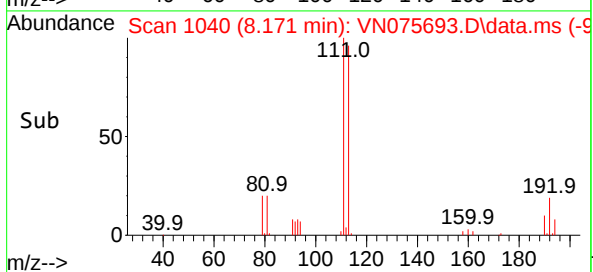
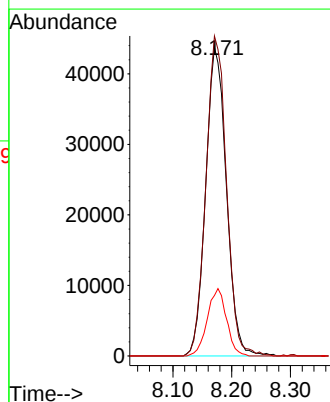
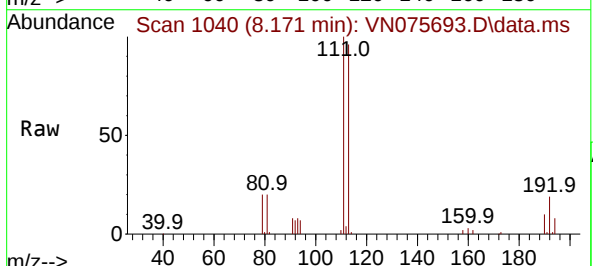
Tgt Ion:113 Resp: 107204

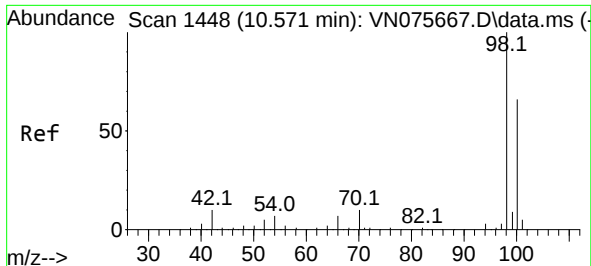
Ion Ratio Lower Upper

113 100

111 102.9 81.0 121.6

192 20.2 16.2 24.2





#50

Toluene-d8

Concen: 51.067 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.000 min

Lab File: VN075693.D

Acq: 10 Dec 2022 06:22

Instrument :

MSVOA\_N

ClientSampleId :

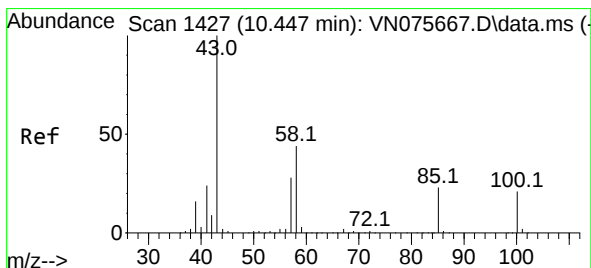
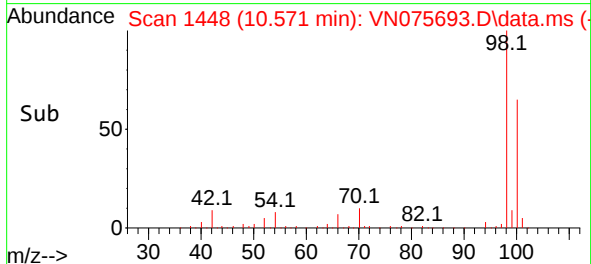
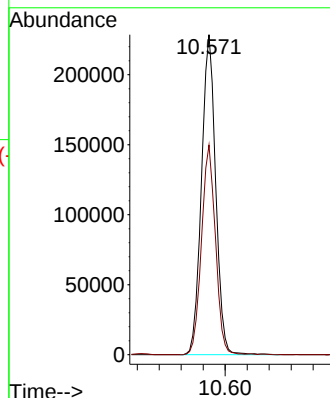
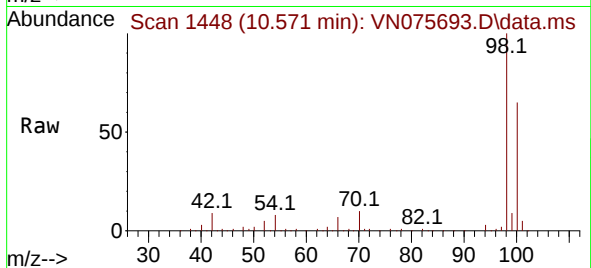
MW-27

Tgt Ion: 98 Resp: 409862

Ion Ratio Lower Upper

98 100

100 64.4 52.6 78.8



#51

4-Methyl-2-Pentanone

Concen: 2.876 ug/l

RT: 10.447 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VN075693.D

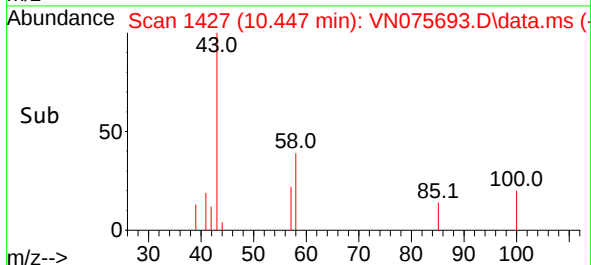
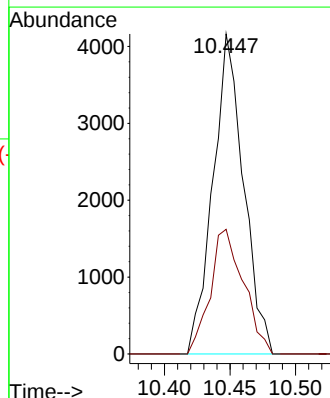
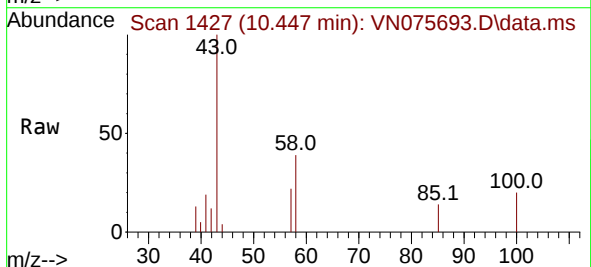
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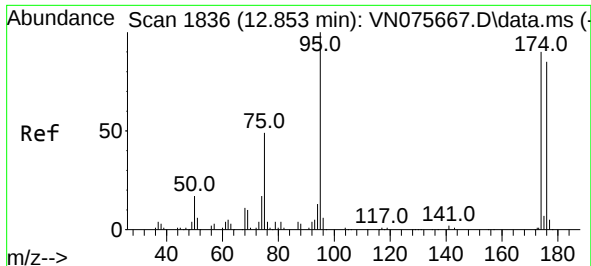
Tgt Ion: 43 Resp: 6745

Ion Ratio Lower Upper

43 100

58 42.4 35.0 52.6

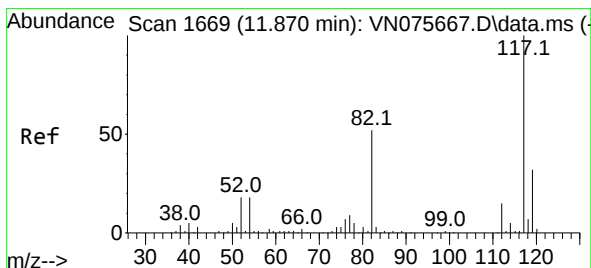
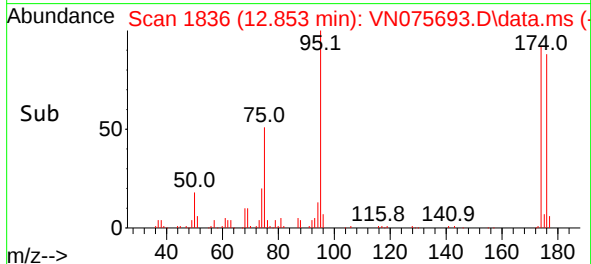
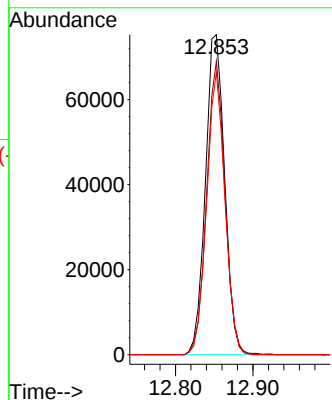
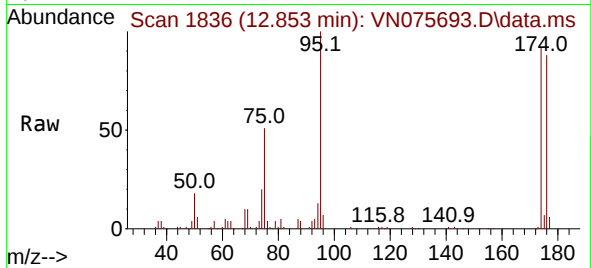




#62  
4-Bromofluorobenzene  
Concen: 47.281 ug/l  
RT: 12.853 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN075693.D  
Acq: 10 Dec 2022 06:22

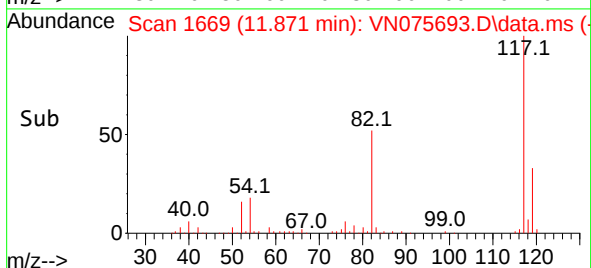
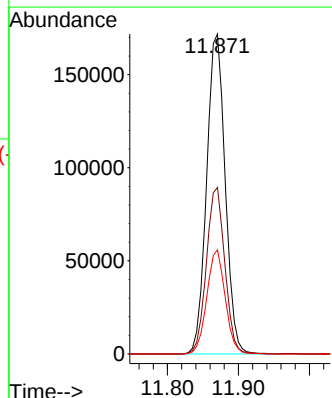
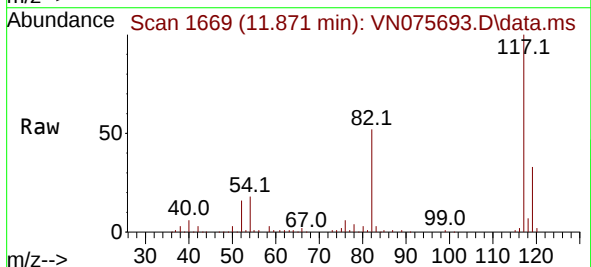
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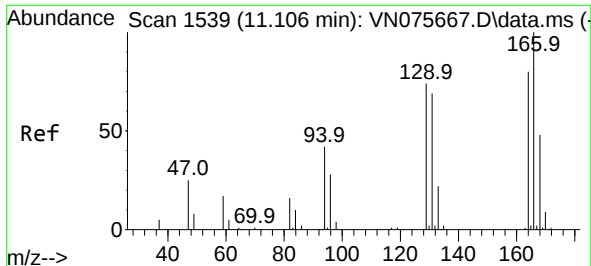
Tgt Ion: 95 Resp: 129744  
Ion Ratio Lower Upper  
95 100  
174 87.5 0.0 178.6  
176 83.8 0.0 170.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.871 min Scan# 1669  
Delta R.T. 0.000 min  
Lab File: VN075693.D  
Acq: 10 Dec 2022 06:22

Tgt Ion: 117 Resp: 312182  
Ion Ratio Lower Upper  
117 100  
82 52.0 41.8 62.8  
119 32.6 25.8 38.6



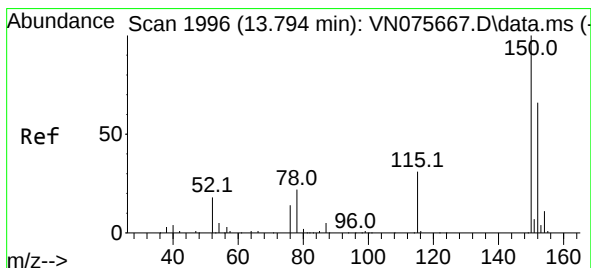
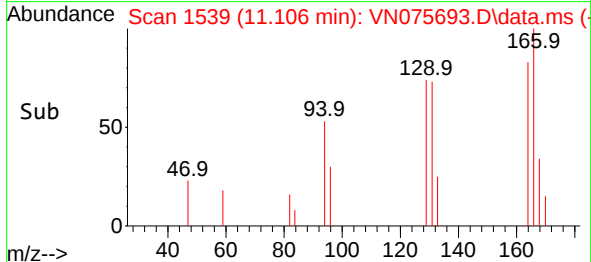
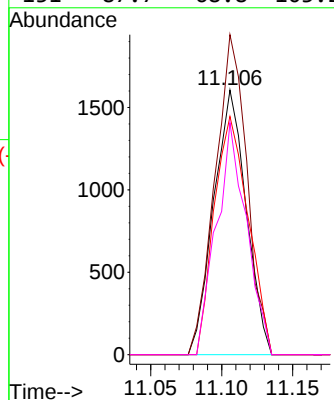
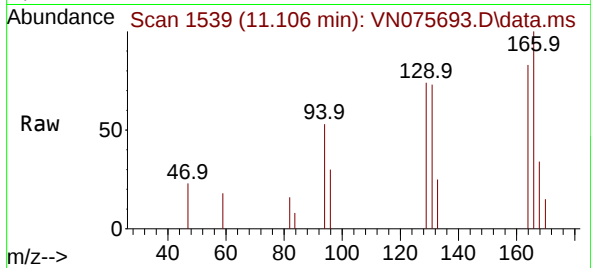


#64  
Tetrachloroethene  
Concen: 1.123 ug/l  
RT: 11.106 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN075693.D  
Acq: 10 Dec 2022 06:22

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MSVOA\_N  
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Tgt Ion:164 Resp: 2553

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 120.9 | 100.3 | 150.5 |
| 129 | 90.0  | 73.9  | 110.9 |
| 131 | 87.7  | 68.8  | 103.2 |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN075693.D  
Acq: 10 Dec 2022 06:22

Tgt Ion:152 Resp: 138833

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 57.3  | 28.4  | 85.2  |
| 150 | 159.1 | 0.0   | 347.6 |

