

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081623\  
 Data File : VX037014.D  
 Acq On : 16 Aug 2023 13:47  
 Operator : JC/MD  
 Sample : 04024-21 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D2-20230815

Quant Time: Aug 17 04:14:34 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 21 12:14:12 2023  
 Response via : Initial Calibration

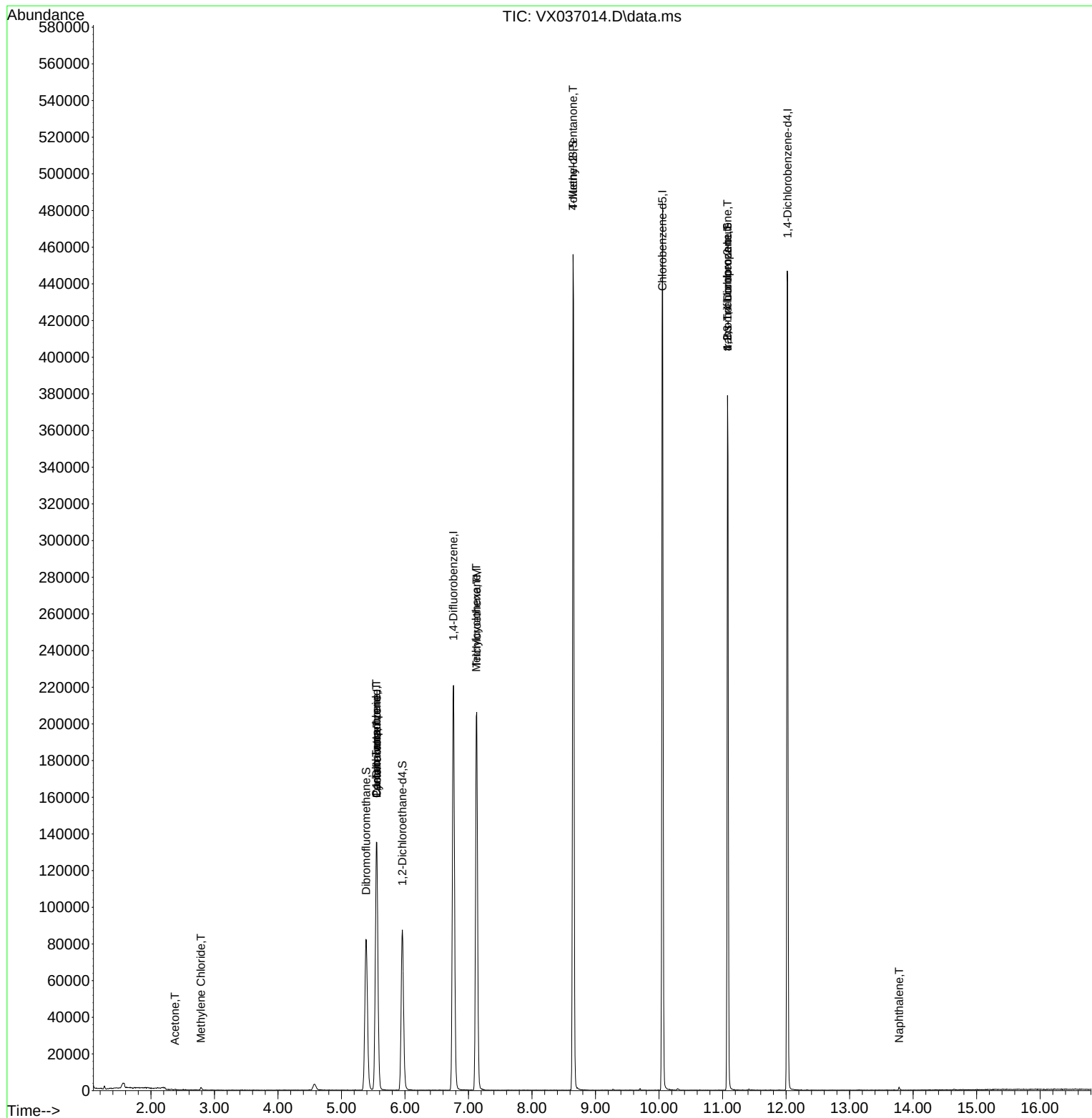
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 125088   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 229505   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 215718   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 93679    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 87972    | 47.530   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 95.060%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 73014    | 46.285   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 92.560%  |
| 50) Toluene-d8                | 8.647  | 98    | 274083   | 48.995   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 97.980%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 105358   | 49.919   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 99.840%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 16) Acetone                   | 2.380  | 43    | 479      | 0.624    | ug/l   | 93       |
| 20) Methylene Chloride        | 2.788  | 84    | 828      | 0.485    | ug/l # | 69       |
| 31) Cyclohexane               | 5.556  | 56    | 2780     | 1.085    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 10086    | 4.290    | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 13498    | 5.400    | ug/l # | 15       |
| 39) Methylcyclohexane         | 7.123  | 83    | 1037     | 0.355    | ug/l # | 1        |
| 44) Trichloroethene           | 7.129  | 130   | 83230    | 46.546   | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1102     | 0.435    | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 55510    | 25.193   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 55510    | 57.100   | ug/l # | 5        |
| 95) Naphthalene               | 13.780 | 128   | 1375     | 0.203    | ug/l # | 94       |
| -----                         |        |       |          |          |        |          |

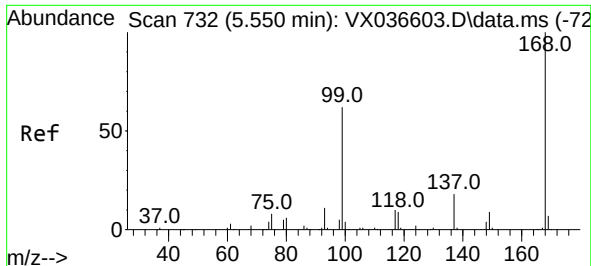
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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ClientSampleId :  
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Quant Time: Aug 17 04:14:34 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072123W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jul 21 12:14:12 2023  
Response via : Initial Calibration

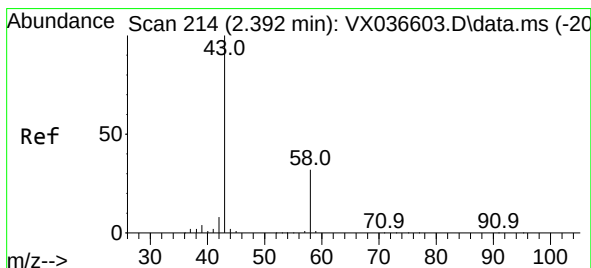
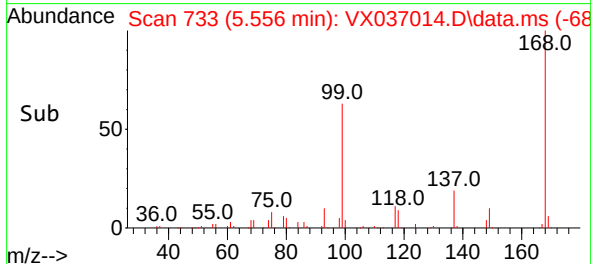
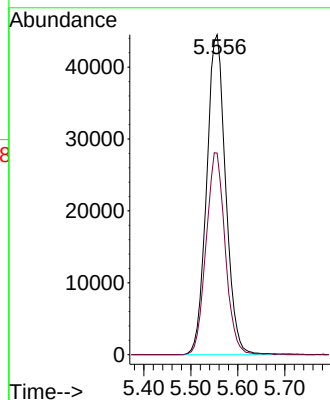
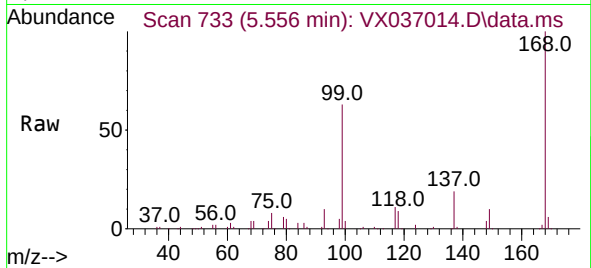




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

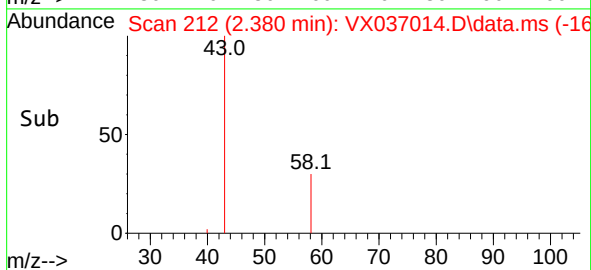
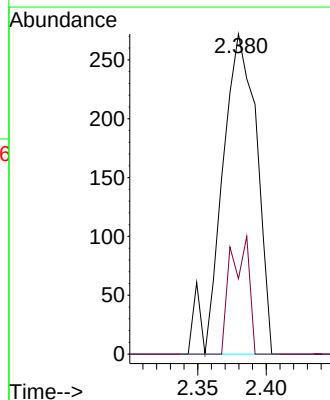
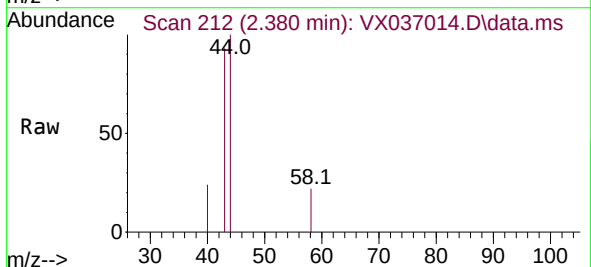
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20230815

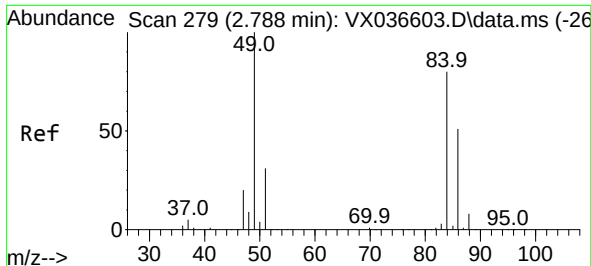
Tgt Ion:168 Resp: 125088  
Ion Ratio Lower Upper  
168 100  
99 63.0 56.6 85.0



#16  
Acetone  
Concen: 0.624 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.012 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

Tgt Ion: 43 Resp: 479  
Ion Ratio Lower Upper  
43 100  
58 23.5 21.9 32.9

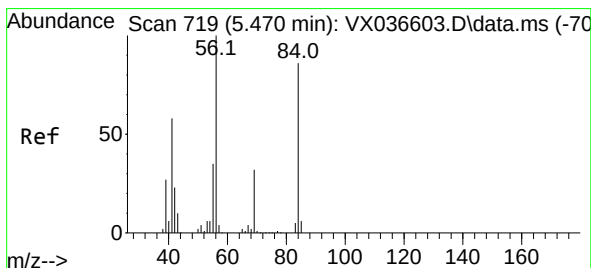
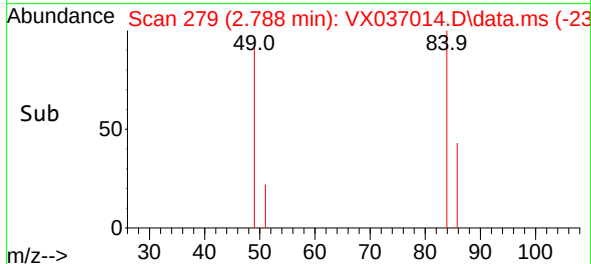
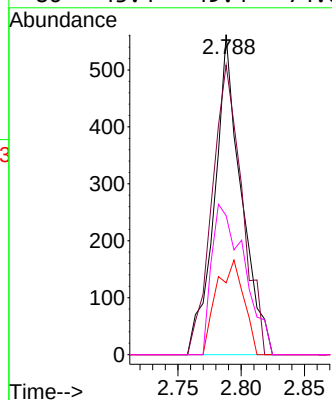
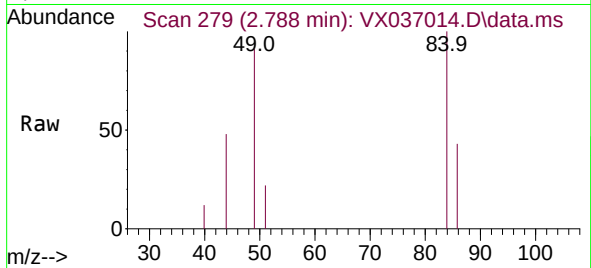




#20  
Methylene Chloride  
Concen: 0.485 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

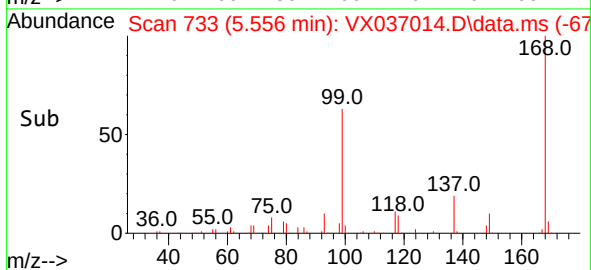
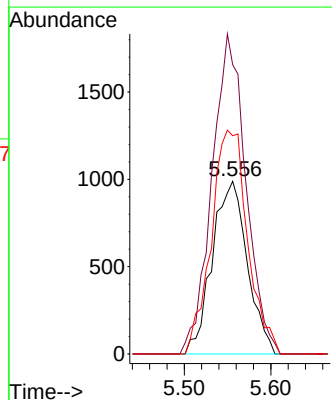
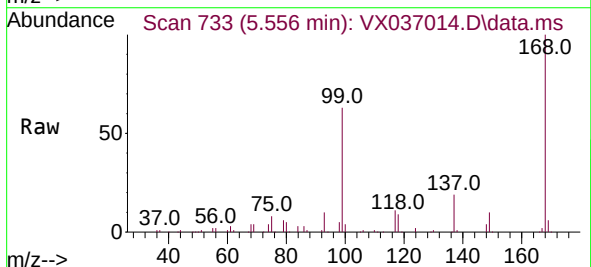
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20230815

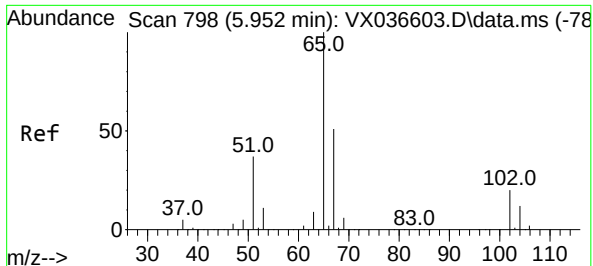
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 828    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 90.6  | 103.6 | 155.4# |
| 51       | 22.4  | 33.8  | 50.6#  |
| 86       | 43.4  | 49.4  | 74.0#  |



#31  
Cyclohexane  
Concen: 1.085 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.085 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 2780  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 167.5 | 23.4  | 35.2# |
| 84       | 126.4 | 65.9  | 98.9# |





#33

1,2-Dichloroethane-d4

Concen: 47.530 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX037014.D

Acq: 16 Aug 2023 13:47

Instrument :

MSVOA\_X

ClientSampleId :

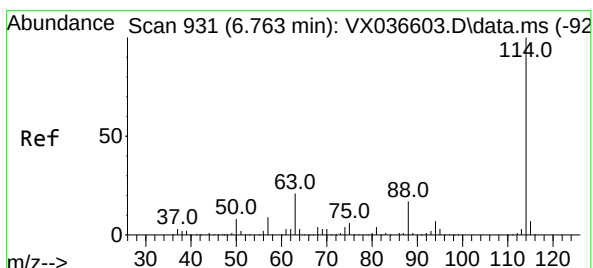
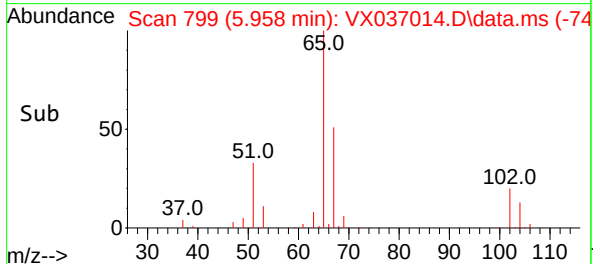
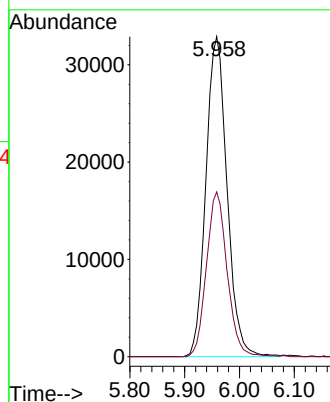
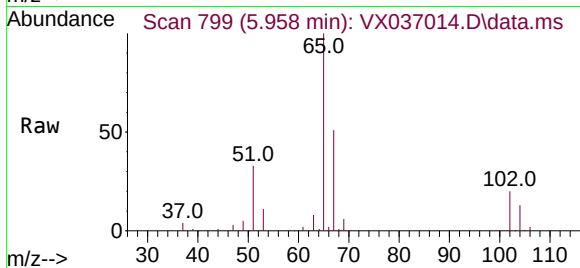
RE108D2-20230815

Tgt Ion: 65 Resp: 87972

Ion Ratio Lower Upper

65 100

67 50.5 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX037014.D

Acq: 16 Aug 2023 13:47

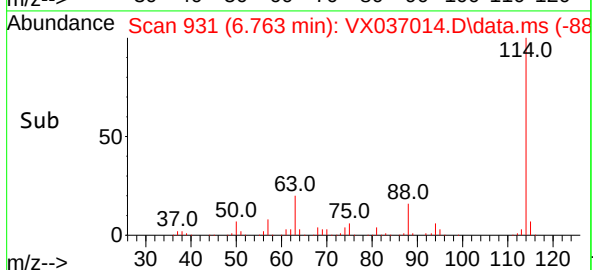
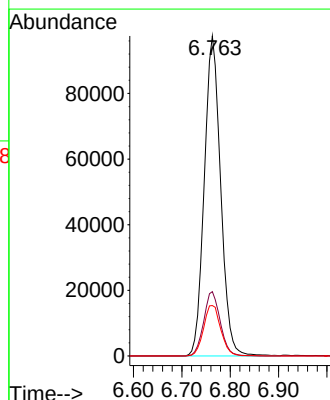
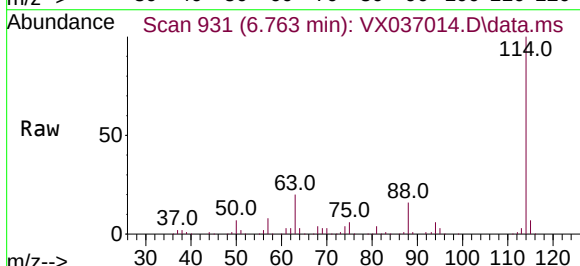
Tgt Ion: 114 Resp: 229505

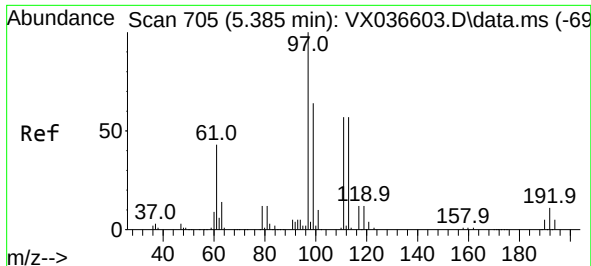
Ion Ratio Lower Upper

114 100

63 20.1 0.0 45.0

88 15.7 0.0 36.6





#35

Dibromofluoromethane

Concen: 46.285 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX037014.D

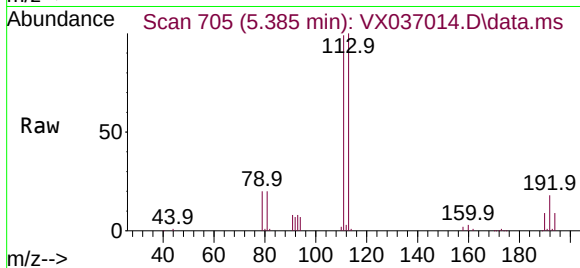
Acq: 16 Aug 2023 13:47

Instrument :

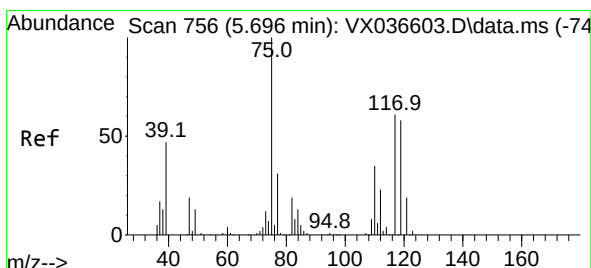
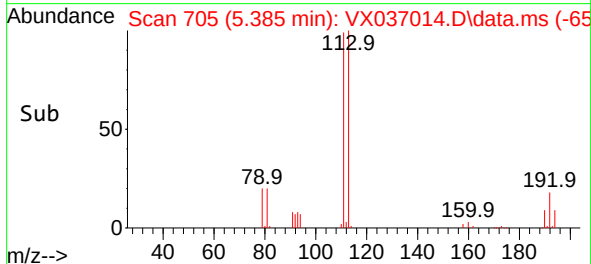
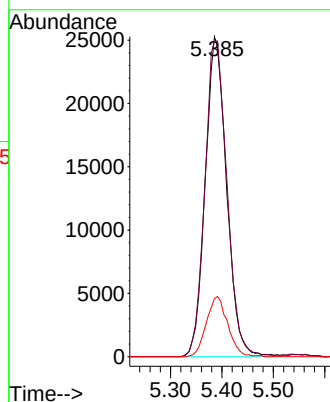
MSVOA\_X

ClientSampleId :

RE108D2-20230815



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 73014 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.3 | 82.9  | 124.3 |
| 192      | 18.8  | 13.3  | 19.9  |



#36

1,1-Dichloropropene

Concen: 4.290 ug/l

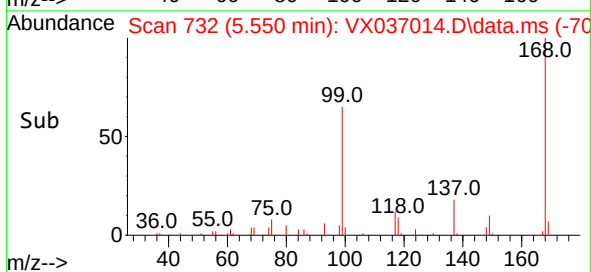
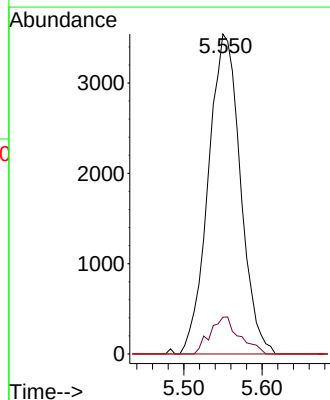
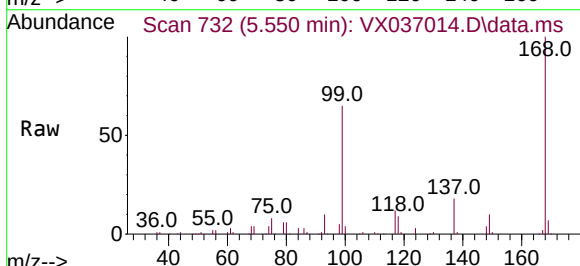
RT: 5.550 min Scan# 732

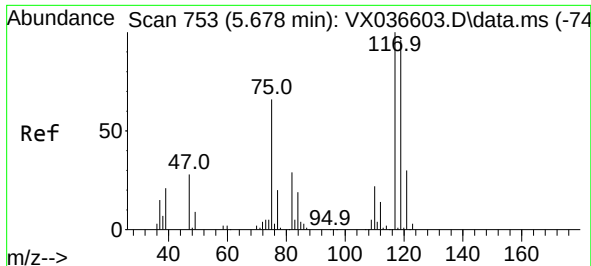
Delta R.T. -0.146 min

Lab File: VX037014.D

Acq: 16 Aug 2023 13:47

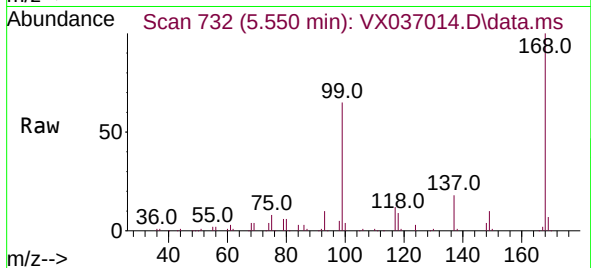
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 10086 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 10.5  | 17.0  | 50.9# |
| 77       | 0.0   | 24.7  | 37.1# |



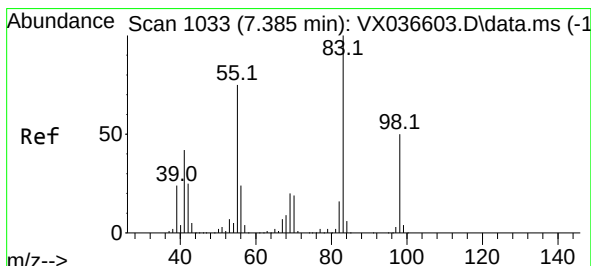
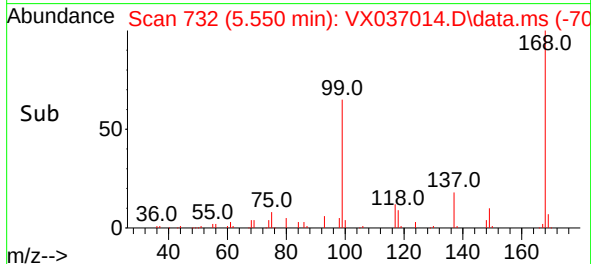
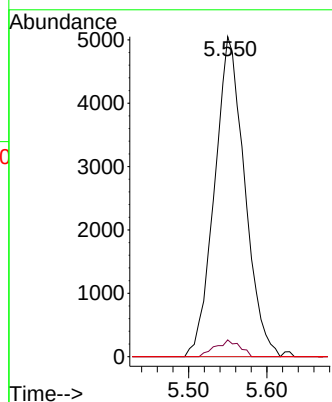


#38  
Carbon Tetrachloride  
Concen: 5.400 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20230815

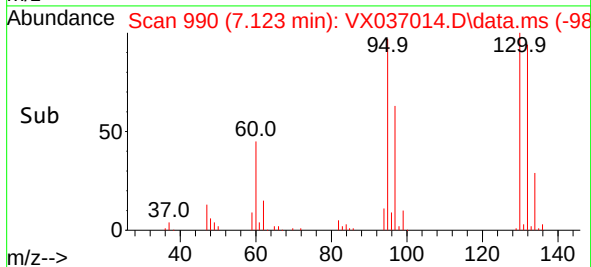
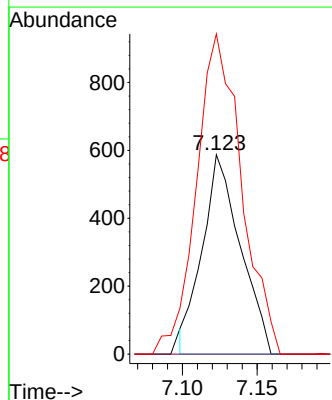
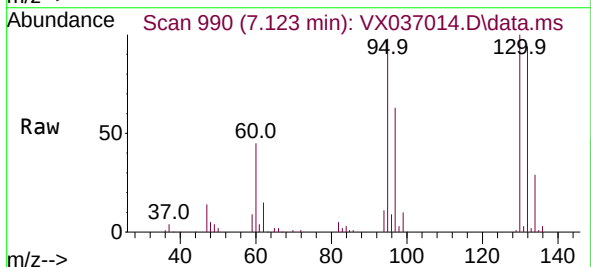


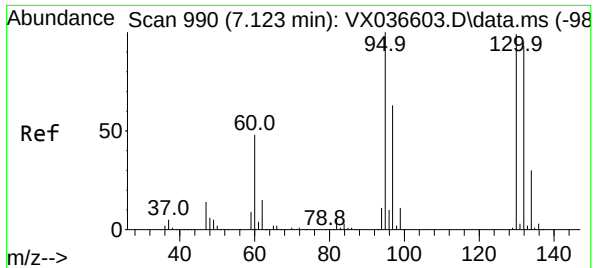
Tgt Ion:117 Resp: 13498  
Ion Ratio Lower Upper  
117 100  
119 5.2 78.2 117.2#  
121 0.0 24.4 36.6#



#39  
Methylcyclohexane  
Concen: 0.355 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.262 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

Tgt Ion: 83 Resp: 1037  
Ion Ratio Lower Upper  
83 100  
55 0.0 64.6 97.0#  
98 160.6 36.7 55.1#

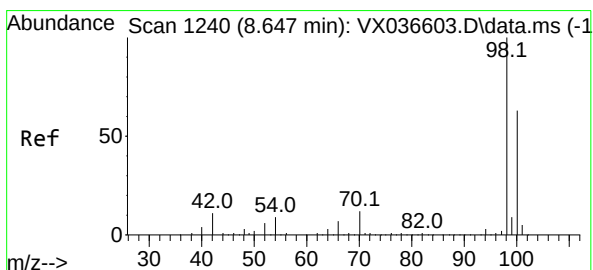
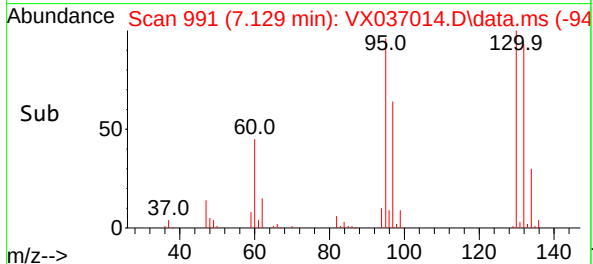
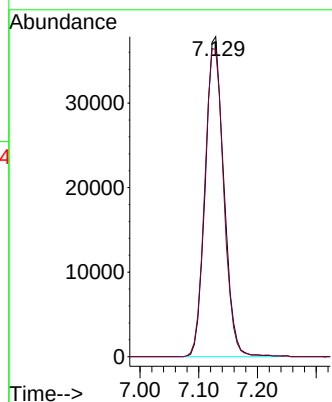
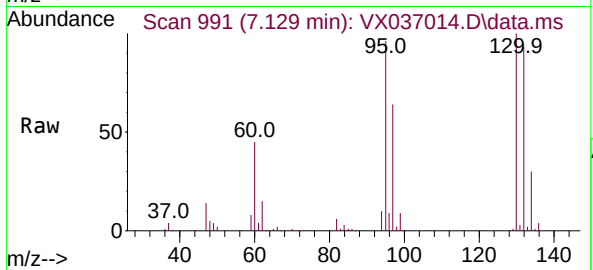




#44  
Trichloroethene  
Concen: 46.546 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

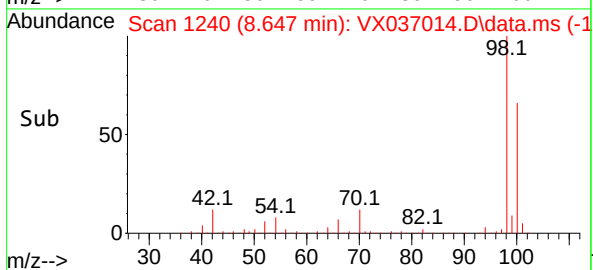
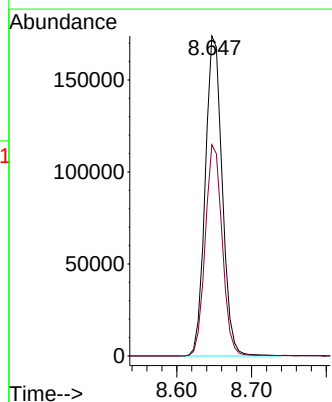
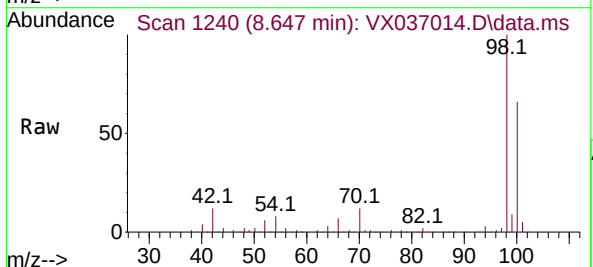
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20230815

Tgt Ion:130 Resp: 83230  
Ion Ratio Lower Upper  
130 100  
95 95.9 0.0 204.4

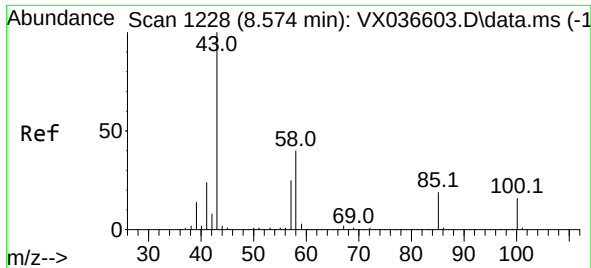


#50  
Toluene-d8  
Concen: 48.995 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

Tgt Ion: 98 Resp: 274083  
Ion Ratio Lower Upper  
98 100  
100 66.2 53.1 79.7



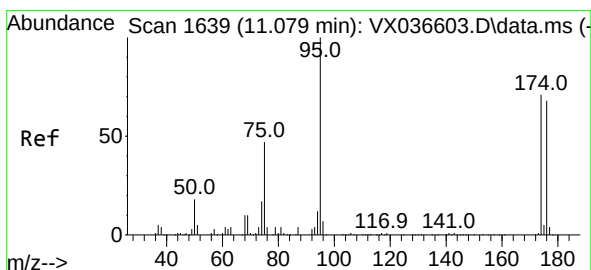
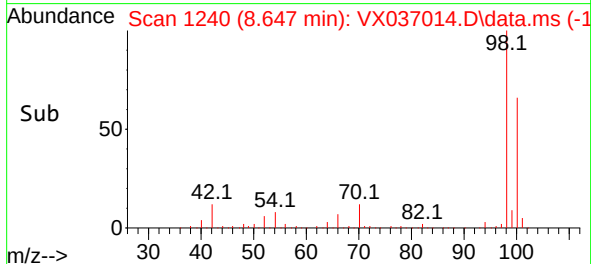
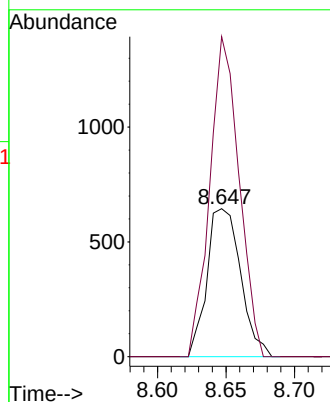
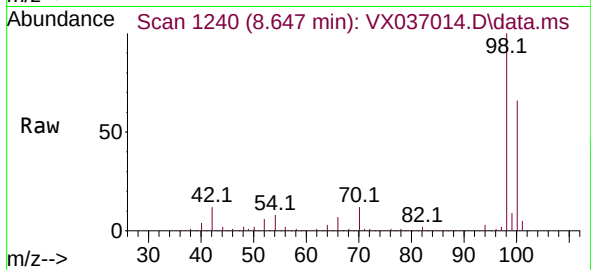




#51  
4-Methyl-2-Pentanone  
Concen: 0.435 ug/l  
RT: 8.647 min Scan# 1102  
Delta R.T. 0.073 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

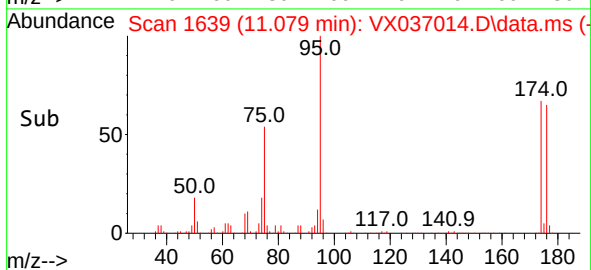
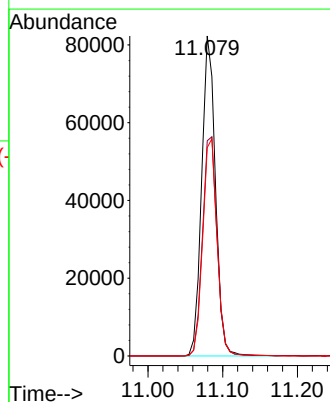
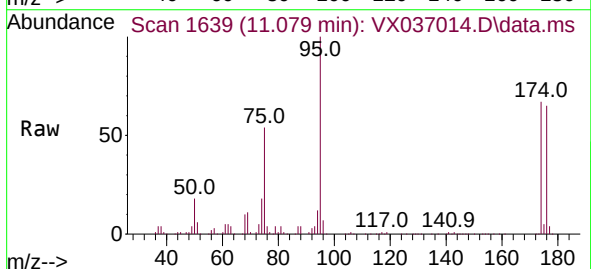
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20230815

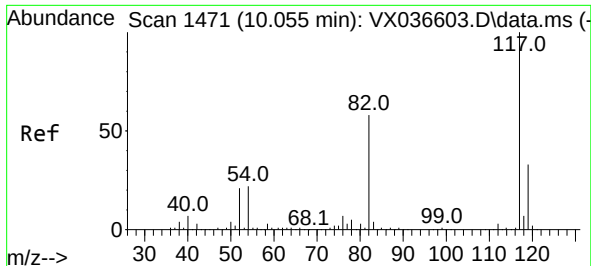
Tgt Ion: 43 Resp: 1102  
Ion Ratio Lower Upper  
43 100  
58 188.4 30.4 45.6#



#62  
4-Bromofluorobenzene  
Concen: 49.919 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

Tgt Ion: 95 Resp: 105358  
Ion Ratio Lower Upper  
95 100  
174 72.5 0.0 135.6  
176 70.5 0.0 131.0

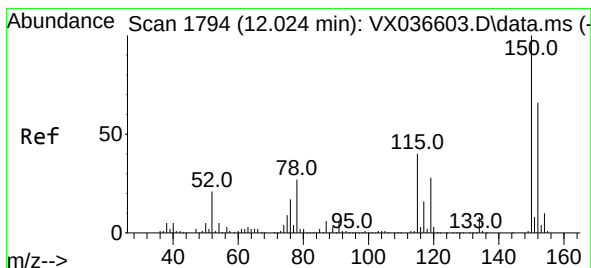
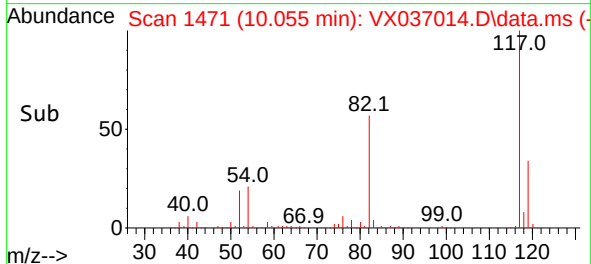
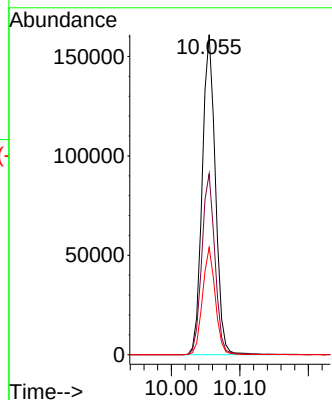
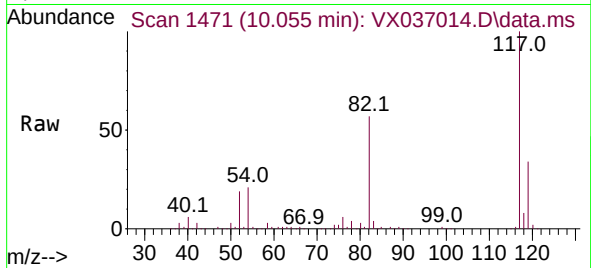




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

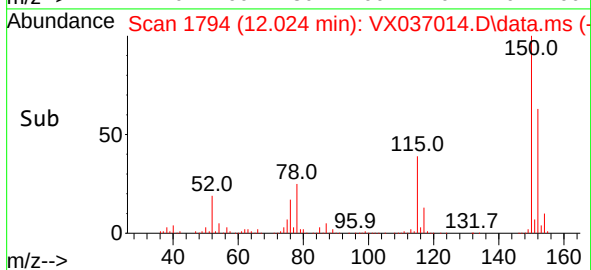
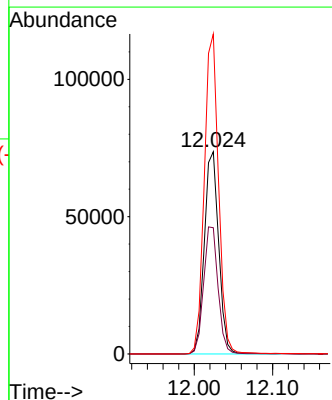
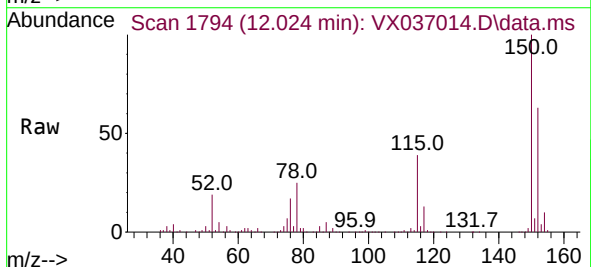
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20230815

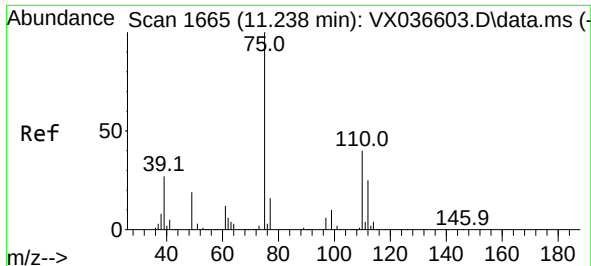
Tgt Ion:117 Resp: 215718  
Ion Ratio Lower Upper  
117 100  
82 56.6 46.2 69.4  
119 33.5 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

Tgt Ion:152 Resp: 93679  
Ion Ratio Lower Upper  
152 100  
115 63.3 43.3 129.9  
150 157.5 0.0 345.0

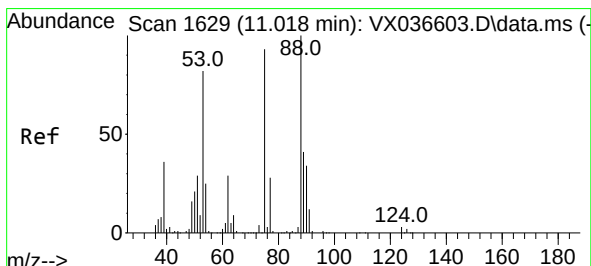
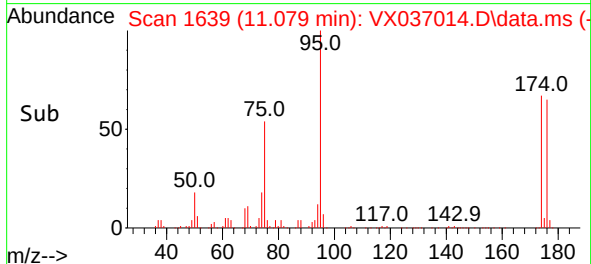
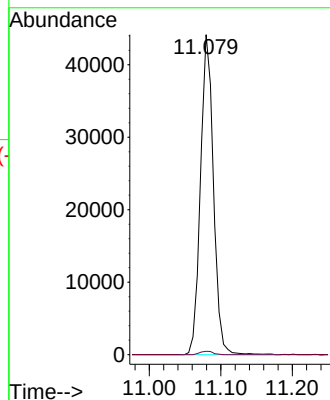
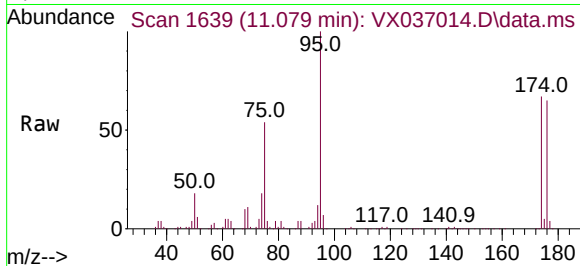




#76  
1,2,3-Trichloropropane  
Concen: 25.193 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

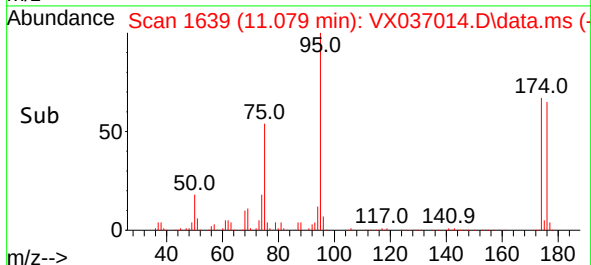
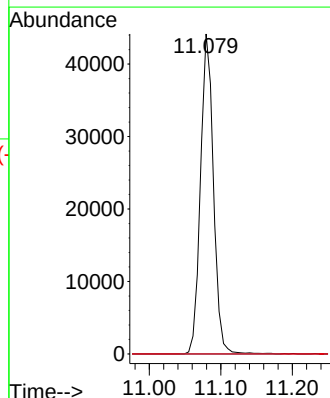
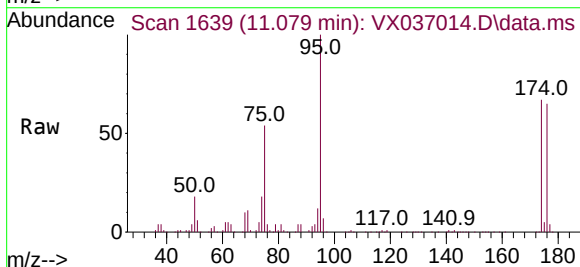
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D2-20230815

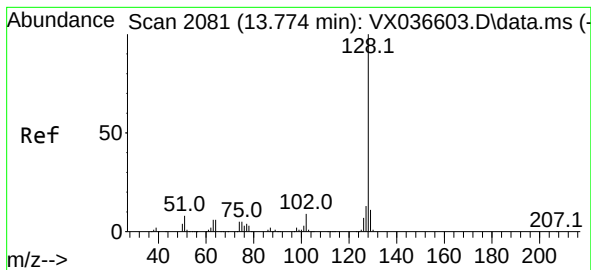
Tgt Ion: 75 Resp: 55510  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 57.100 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX037014.D  
Acq: 16 Aug 2023 13:47

Tgt Ion: 75 Resp: 55510  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 0.203 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX037014.D

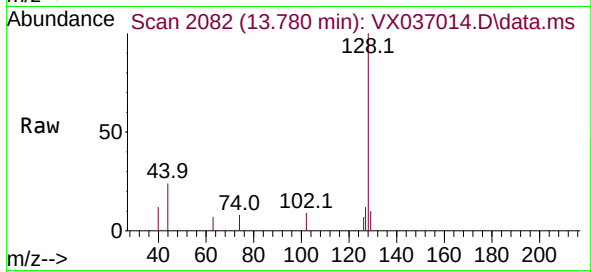
Acq: 16 Aug 2023 13:47

Instrument :

MSVOA\_X

ClientSampleId :

RE108D2-20230815



Tgt Ion:128 Resp: 1375

Ion Ratio Lower Upper

128 100

127 10.1 10.3 15.5#

129 9.3 8.8 13.2

